Sony Ericsson

Company Internal
REPORT

Prepared (also subject responsible if other)		No.		
BA/SEM/BGLINS *Robert Carr*		*BGLI08:258.*		
Approved	Checked	Date	Rev	Reference
LD/SEM/BGLIVM *Peter Lindeborg*	*02/04/08*	*31/03/08*	A	File

Report issued by Accredited SAR Laboratory

for

PY7A3252051 (Z780)

Date of test: March 10th, to March 18th, 2008

Laboratory:
Sony Ericsson SAR Test Laboratory
Sony Ericsson Mobile Communications AB
Maplewood, Chineham Business Park
Basingstoke, RG24 8YB,
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ROBERT CARR

Testing Approval:
Peter Lindeborg
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+46-46-2126180

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

Sony Ericsson Type AAD-3252051-BV; FCC ID PY7A3252051; IC 4170B-A3252051

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)

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1 Introduction

In this test report, compliance of the Sony Ericsson PY7A3252051 (Z780) 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 Device Under Test

2.1 Device description

Device model	AAD-3252051-BV											
Market name	Z780											
Serial number (EUT #)	BX90083JV8 (#10868)											
Mode	GSM 850			GSM 1900			UMTS II			UMTS V		
Crest factor	8.3			8.3			1.0			1.0		
Multiple access scheme	TDMA			TDMA			WCDMA			WCDMA		
Channel No.	128	190	251	512	661	885	9262	9400	9538	4132	4183	4233
Maximum output power setting [dBm]	32.5	32.5	32.5	31.0	31.1	31.0	22.8	22.8	22.8	23.3	23.3	23.3
Factory tolerance in power setting	±0.5 dB			±0.5 dB			±0.5 dB			±0.5 dB		
Maximum peak output power [dBm]	32.5	32.5	32.5	31.0	31.0	31.0	22.8	22.8	22.8	23.3	23.3	23.3
Data mode	GPRS			GPRS			(See section 2.3)					
Crest factor	4.15			4.15								
Maximum output power setting [dBm]	30.6	30.6	30.6	31.0	31.1	31.0						
Factory tolerance in power setting	±0.5 dB			±0.5 dB								
Maximum peak output power [dBm]	30.5	30.5	30.5	31.0	31.0	31.0						
Data mode	EDGE			EDGE								
Crest factor	4.15			4.15								
Maximum output power setting [dBm]	28.0	28.0	28.0	27.0	26.9	26.9						
Factory tolerance in power setting	±0.5 dB			±0.5 dB								
Maximum peak output power [dBm]	28.0	28.0	28.0	27.0	27.0	27.0						
Transmitting frequency range [MHz]	824.0 - 849.0			1850.0 - 1910.0			1852.5 - 1907.6			826.5 - 846.6		

GPRS Multislot class	10
EDGE class	10
GPRS Capability class	B
Prototype or production unit	Preproduction
Hardware version	AP 1.2
Software version	R3AA036
Device category	Portable
RF exposure environment	General population / uncontrolled

2.2 Antenna Description

Type	Internal antenna	
Location	Top of Rear Case	
Dimensions	Max length	11 mm
	Max width	38 mm
Configuration	IFA+ Coupling	

2.3 Output power in UMTS

The conducted output power of the device was measured in two circuit switched (CS) modes RMC and voice; and four high speed downlink packet access (HSDPA) modes. A CMU-200 was used to establish the call processing and modulation settings. A RF power meter was used for power measurement. For HSDPA measurements, the following settings were applied:

H-SET3 QPSK
CQI feedback=2 msec

The results (including relevant CMU settings) are presented in the following table:

Output power [dBm]						UMTS Band II			UMTS Band V		
						Channel No.			Channel No.		
Mode	β_C	β_D	ΔACK	ΔNACK	ΔCQI	9262	9400	9538	4132	4183	4233
CS - RMC	8	15	-	-	-	22.7	22.7	22.8	23.2	23.3	23.3
CS - voice	8	15	-	-	-	22.6	22.7	22.7	23.1	23.3	23.2
HSDPA-1	2	15	8	8	8	22.5	22.6	22.6	23.0	23.2	23.1
HSDPA-2	12	15	8	8	8	22.3	22.4	22.3	22.7	22.9	22.8
HSDPA-3	15	8	8	8	8	21.8	21.8	21.7	22.0	22.2	22.1
HSDPA-4	15	4	8	8	8	20.7	20.8	20.7	21.0	21.2	21.0

3 Test equipment

3.1 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	15-11-2008
E-field probe ET3DV6	1610	14-11-2008
E-field probe ET3DV6	1611	17-12-2008
Dipole Validation Kit, D835V2	442	06-12-2008
Dipole Validation Kit, D1900V2	539	12-12-2008

3.2 Additional equipment

Description	***Inventory Number***	***Due Date***
Signal generator R&S SMY 02	3.094	24-04-08
Directional coupler HP778D	15.233	None
Power meter R&S NRVD	4.073	24-04-08
Power sensor R&S NRV-Z5	4.074	24-04-08
Power sensor R&S NRV-Z5	4.076	24-04-08
Network analyzer Agilent 8719D	2.022	23-04-08
Dielectric probe kit HP8507C	14.046	Self Cal
R&S CMU200	20011497	08-05-08

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4 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/cm³]
835	Head	Measured, 10-03-08	40.9	0.87	1.00
		Recommended	41.5	0.90	1.00
835	Body	Measured, 11-03-08	55.3	0.97	1.00
		Recommended	55.2	0.97	1.00
835	Head	Measured, 12-03-08	40.9	0.87	1.00
		Recommended	41.5	0.90	1.00
835	Body	Measured, 13-03-08	54.9	0.99	1.00
		Recommended	55.2	0.97	1.00
1900	Head	Measured, 14-03-08	38.7	1.47	1.00
		Recommended	40.0	1.40	1.00
1900	Body	Measured, 17-03-08	50.9	1.57	1.00
		Recommended	53.3	1.52	1.00
1900	Head	Measured, 18-03-08	38.6	1.46	1.00
		Recommended	40.0	1.40	1.00

5 System accuracy verification

A system accuracy verification of the DASY4 was performed using the dipole validation kit listed in section 3.1. The system verification test was conducted on the same day as the measurement of the DUT. The measurements were made at an ambient temperature of 22.4 - 24.7°C and humidity 21-34%. The obtained results are displayed in the table below.
RF noise had been measured in liquid when all RF equipment in lab was switched off. Measured value was 0.00000289 mW/g in 1g mass.

f [MHz]	Tissue type	Measured / Reference	SAR [W/kg] 1g / 10g	Dielectric Parameters		Density	Liquid T[°C]
				ε_r	σ [S/m]	ρ [g/cm³]	
835	Head	Measured, 10-03-08	9.16 / 6.08	40.9	0.87	1.00	19.7
		Recommended	9.43 / 6.17	41.5	0.90	1.00	22.0
835	Body	Measured, 11-03-08	9.64 / 6.56	55.3	0.97	1.00	20.5
		Recommended	9.70 / 6.51	55.2	0.97	1.00	22.0
835	Head	Measured, 12-03-08	9.28 / 6.12	40.9	0.87	1.00	19.7
		Recommended	9.43 / 6.17	41.5	0.90	1.00	22.0
835	Body	Measured, 13-03-08	9.48 / 6.32	54.9	0.99	1.00	20.5
		Recommended	9.70 / 6.51	55.2	0.97	1.00	22.0
1900	Head	Measured, 14-03-08	37.3 / 19.6	38.7	1.47	1.00	21.2
		Recommended	35.9 / 19.1	40.0	1.40	1.00	22.0
1900	Body	Measured, 17-03-08	38.1 / 20.0	50.9	1.57	1.00	22.0
		Recommended	37.0 / 19.8	53.3	1.52	1.00	22.0
1900	Head	Measured, 18-03-08	37.6 / 19.6	38.6	1.46	1.00	21.2
		Recommended	35.9 / 19.1	40.0	1.40	1.00	22.0

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6 SAR measurement uncertainty

SAR measurement uncertainty evaluation for Sony Ericsson PY7A3252051 (Z780) 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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7 Test results

The measured 1-gram averaged SAR values of the DUT towards the head are provided in Table 1. The ambient humidity and temperature of test facility were 21-34% and 22.4 - 24.7°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 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. Results for head position are presented in table 1.

For body measurement's the DUT was tested with the clamshell in the closed position and 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, and for Bluetooth (BT) the DUT was paired with Sony Ericsson HBH-60. Results for body position are presented in table 2.

Band	Channel	Output power [dBm]	Position	Liquid T [°C]	Measured SAR [W/kg]	
					Left-hand 1g mass	Right-hand 1g mass
GSM 850	128	32.5	Cheek	22.6	0.90	0.96
			Tilt	22.6	-	-
	190	32.5	Cheek	22.6	1.08	1.20
			Tilt	22.6	0.31	0.34
	251	32.5	Cheek	22.6	1.25	1.39
			Tilt	22.6	-	-
GSM 1900	512	31.0	Cheek	22.5	1.28	1.14
			Tilt	22.5	-	-
	661	31.1	Cheek	22.5	1.28	1.21
			Tilt	22.5	0.21	0.21
	810	31.0	Cheek	22.5	1.03	1.02
			Tilt	22.5		
UMTS II	9262	22.8	Cheek	22.5	1.11	1.37
			Tilt	22.5	-	-
	9400	22.8	Cheek	22.5	1.08	1.39
			Tilt	22.5	0.21	0.24
	9538	22.8	Cheek	22.5	1.15	1.43
			Tilt	22.5	-	-
UMTS V	4132	23.3	Cheek	23.2	0.80	0.87
			Tilt	23.2	-	-
	4183	23.3	Cheek	23.2	1.08	1.16
			Tilt	23.2	0.29	0.32
	4233	23.3	Cheek	23.2	0.89	0.99
			Tilt	23.2	-	-

Table 1: SAR measurement result for Sony Ericsson PY7A3252051 telephone at highest possible output power Measured towards the head.

Band	Channel	Output Power [dBm]	Position / Mode	Liquid T [°C]	Measured SAR [W/kg] 1g mass
GSM 850	128	32.5	Back / GPRS	22.6	0.69
		30.6	Back / BT	22.6	0.42
	190	30.6	Back / GPRS	22.6	0.96
			Front / GPRS	22.6	0.35
		28.0	Back EDGE	22.6	0.48
		32.4	Back / BT	22.6	0.52
	251	30.6	Back / GPRS	22.6	0.94
		32.5	Back / BT	22.6	0.67
			Back / PHF	22.6	0.56
GSM 1900	512	31.0	Back / GPRS	21.9	0.69
			Front / GPRS	21.9	0.19
			Back / BT	21.9	0.38
			Back / PHF	21.9	0.32
		27.0	Back / EDGE	21.9	0.29
	661	31.1	Back / GPRS	21.9	0.64
		31.1	Back / BT	21.9	0.36
	810	31.0	Back / GPRS	21.9	0.53
		31.0	Back / BT	21.9	0.28
UMTS II	9262	22.8	Back / BT	21.9	0.38
		22.3	Back / HS-2	21.9	0.31
	9400	22.8	Back / BT	21.9	0.37
		22.3	Back / HS-2	21.9	0.32
	9538	22.3	Back / HS-2	21.9	0.36
		22.8	Back / BT	21.9	0.40
			Back / PHF	21.9	0.38
			Front / BT	21.9	0.11
UMTS V	4132	23.3	Back / BT	22.4	0.42
		22.8	Back / HS-2	22.4	0.40
	4183	23.3	Back / BT	22.4	0.58
		22.8	Back / HS-2	22.4	0.51
		23.8	Back / PHF	22.4	0.49
			Front / BT	22.4	0.23
	4233	23.3	Back / BT	22.4	0.46
		22.8	Back / HS-2	22.4	0.40

Table 2: SAR measurement result for Sony Ericsson PY7A3252051 telephone at highest possible output power Measured towards the body.

8 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.

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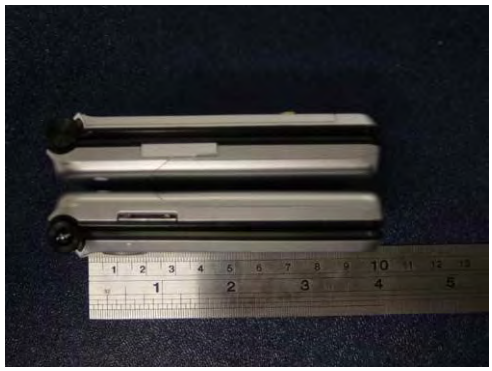
9 Appendix

9.1 Photographs of the device under test

Front & Back



Sides

Back side with Battery

Top & Bottom

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9.2 Device position at SAM Twin Phantom

DUT position towards the head: Cheek (touch) position

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

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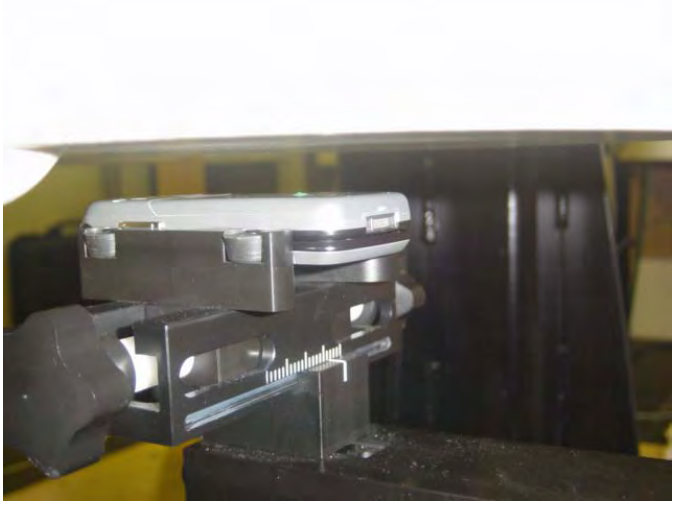

DUT in body position with 15 mm distance

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9.3 Attachments

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

Date/Time: 3/14/2008 11:52:13 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

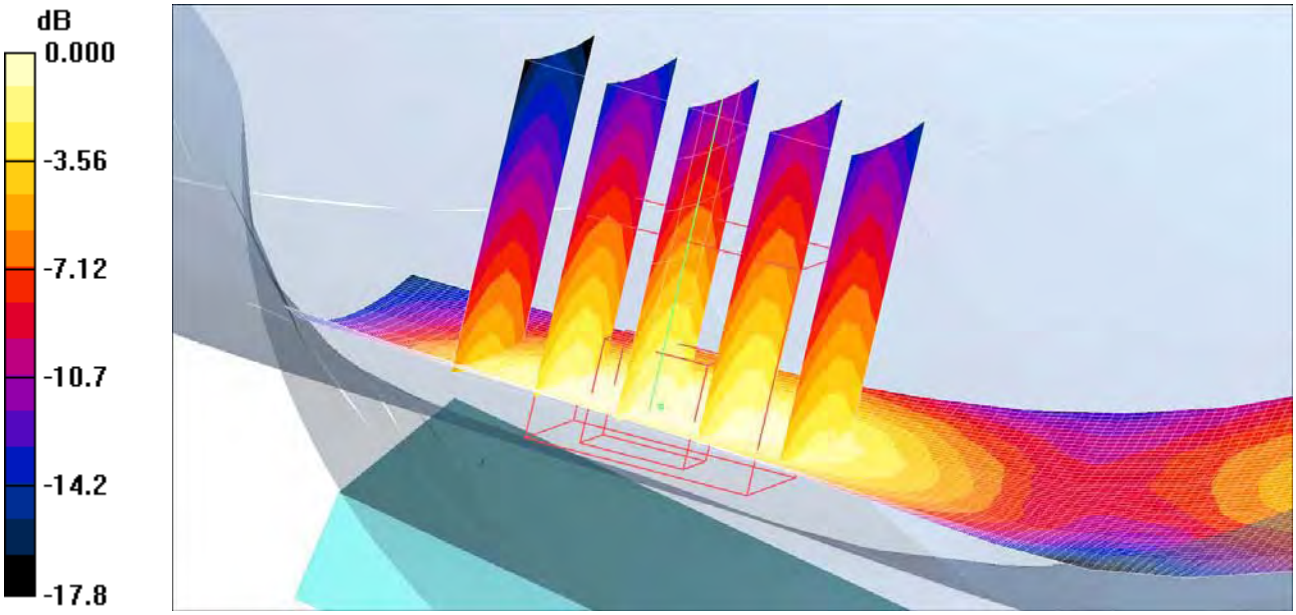
Bella-AT&T-LeftHandSide-GSM1900-Tilt-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.45 mho/m; ε_r = 38.8; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Tilt position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.229 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 9.73 V/m; Power Drift = 0.015 dB
  Peak SAR (extrapolated) = 0.300 W/kg
  SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.133 mW/g
  Maximum value of SAR (measured) = 0.228 mW/g



0 dB = 0.228mW/g

Date/Time: 3/14/2008 11:35:26 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

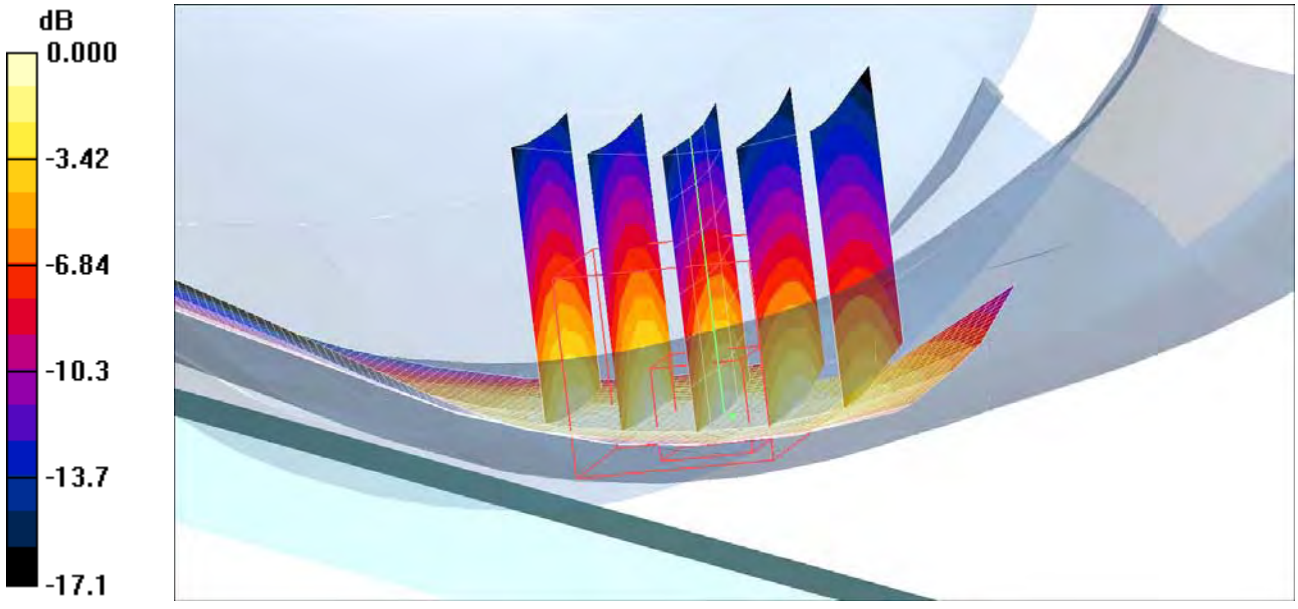
Bella-AT&T-LeftHandSide-GSM1900-Touch-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: DCS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1909.8 MHz; σ = 1.48 mho/m; ε_r = 38.7; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - High/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.17 mW/g
  Touch - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 6.57 V/m; Power Drift = 0.101 dB
  Peak SAR (extrapolated) = 1.68 W/kg
  SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.580 mW/g
  Maximum value of SAR (measured) = 1.13 mW/g



0 dB = 1.13mW/g

Date/Time: 3/14/2008 11:19:28 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

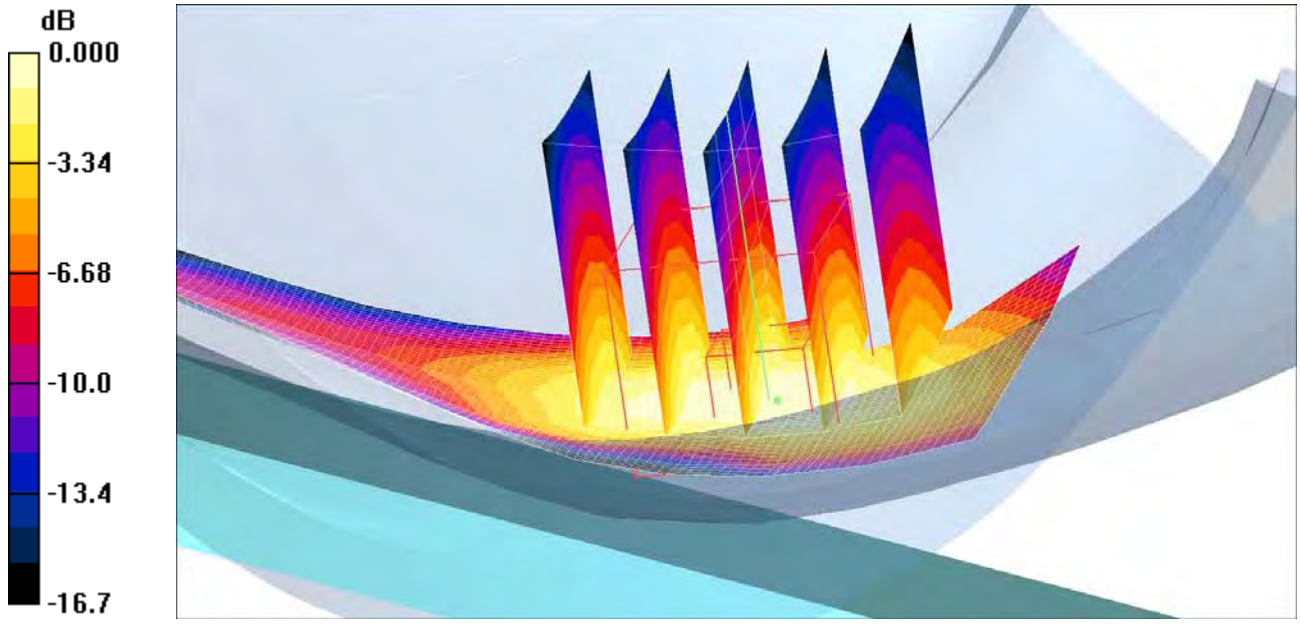
Bella-AT&T-LeftHandSide-GSM1900-Touch-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: DCS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1850.2 MHz; σ = 1.42 mho/m; ε_r = 38.9; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - Low/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.47 mW/g
  Touch - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 6.53 V/m; Power Drift = -0.043 dB
  Peak SAR (extrapolated) = 2.02 W/kg
  SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.733 mW/g
  Maximum value of SAR (measured) = 1.42 mW/g



0 dB = 1.42mW/g

Date/Time: 3/14/2008 10:53:15 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

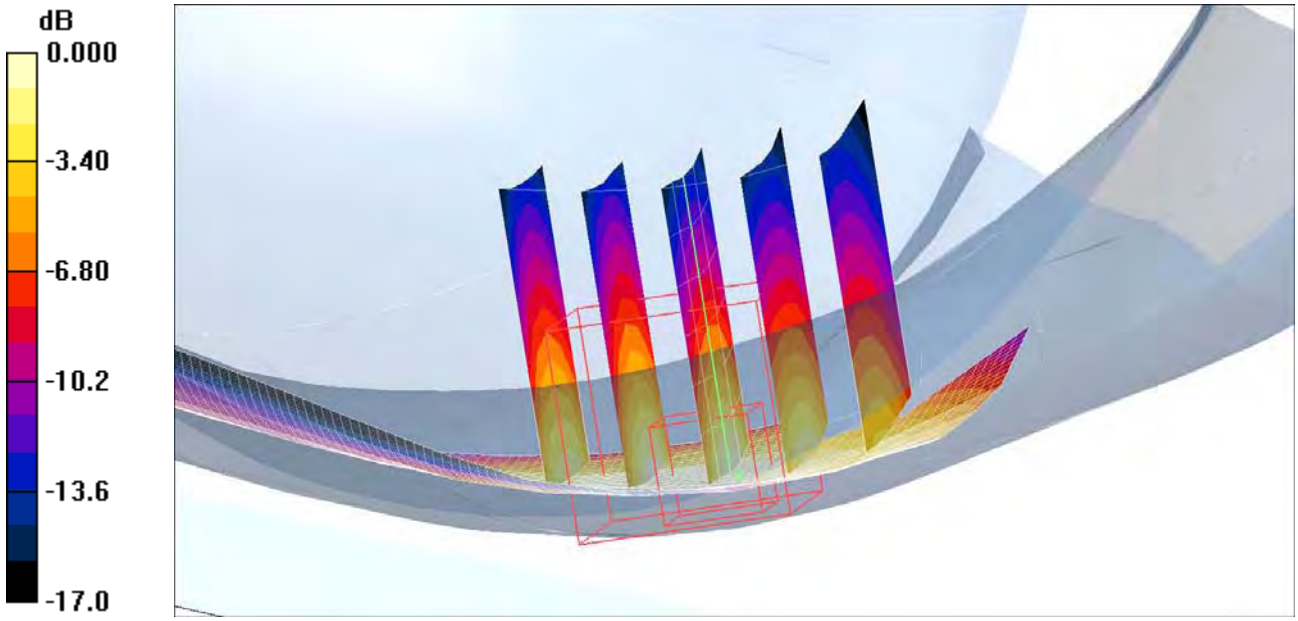
Bella-AT&T-LeftHandSide-GSM1900-Touch-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.45 mho/m; ε_r = 38.8; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.47 mW/g
  Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 6.55 V/m; Power Drift = -0.213 dB
  Peak SAR (extrapolated) = 2.06 W/kg
  SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.723 mW/g
  Maximum value of SAR (measured) = 1.41 mW/g



0 dB = 1.41mW/g

Date/Time: 3/14/2008 2:16:41 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

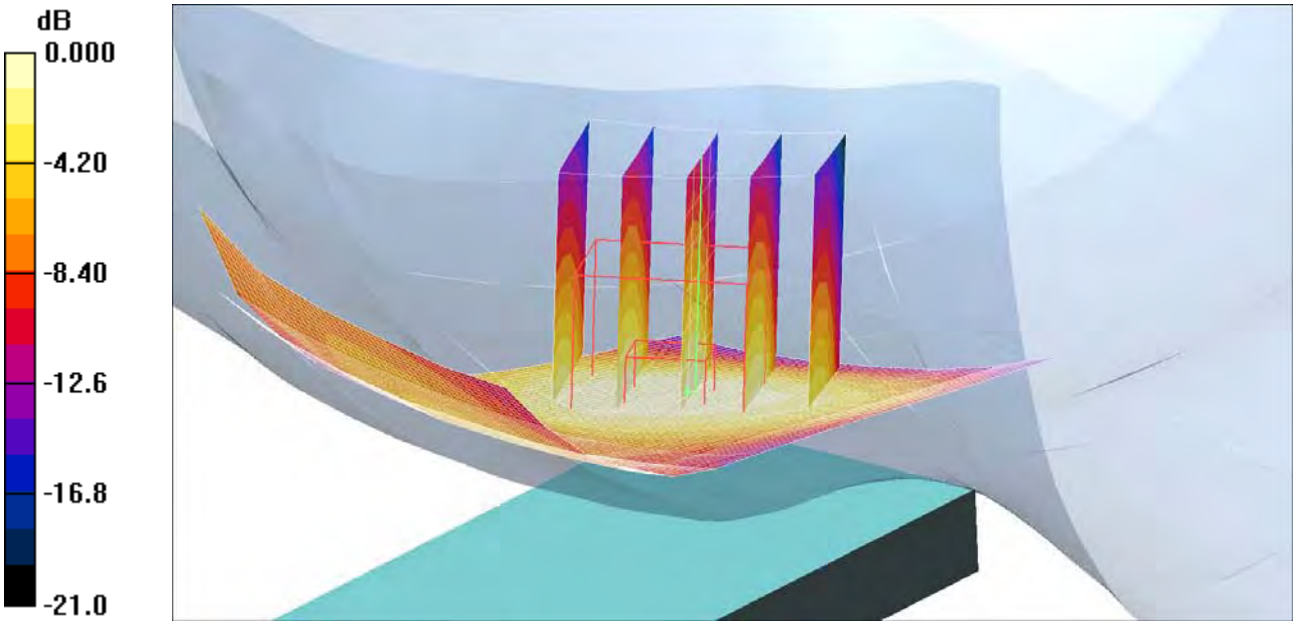
Bella-AT&T-RightHandSide-GSM1900-Tilt-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.45 mho/m; ε_r = 38.8; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Tilt position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.233 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 9.81 V/m; Power Drift = 0.162 dB
  Peak SAR (extrapolated) = 0.310 W/kg
  SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.130 mW/g
  Maximum value of SAR (measured) = 0.221 mW/g



0 dB = 0.221mW/g

Date/Time: 3/14/2008 1:42:34 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

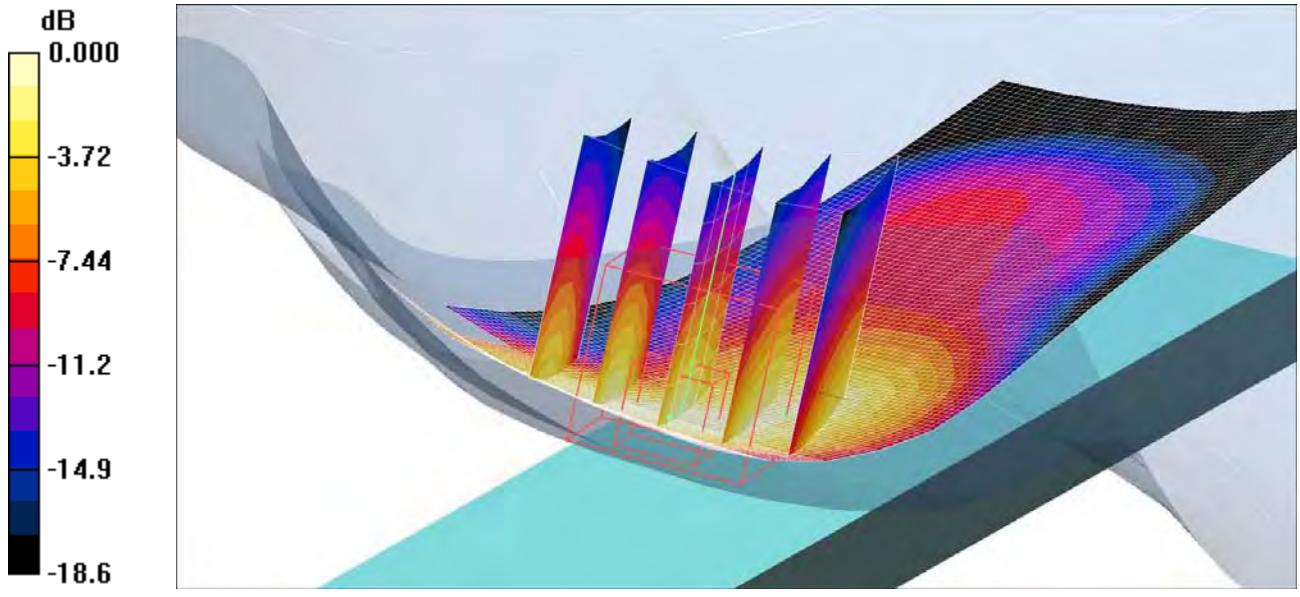
Bella-AT&T-RightHandSide-GSM1900-Touch-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: DCS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1909.8 MHz; σ = 1.48 mho/m; ε_r = 38.7; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - High/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.17 mW/g
  Touch - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 6.68 V/m; Power Drift = -0.005 dB
  Peak SAR (extrapolated) = 1.81 W/kg
  SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.539 mW/g
  Maximum value of SAR (measured) = 1.15 mW/g



0 dB = 1.15mW/g

Date/Time: 3/14/2008 1:25:31 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

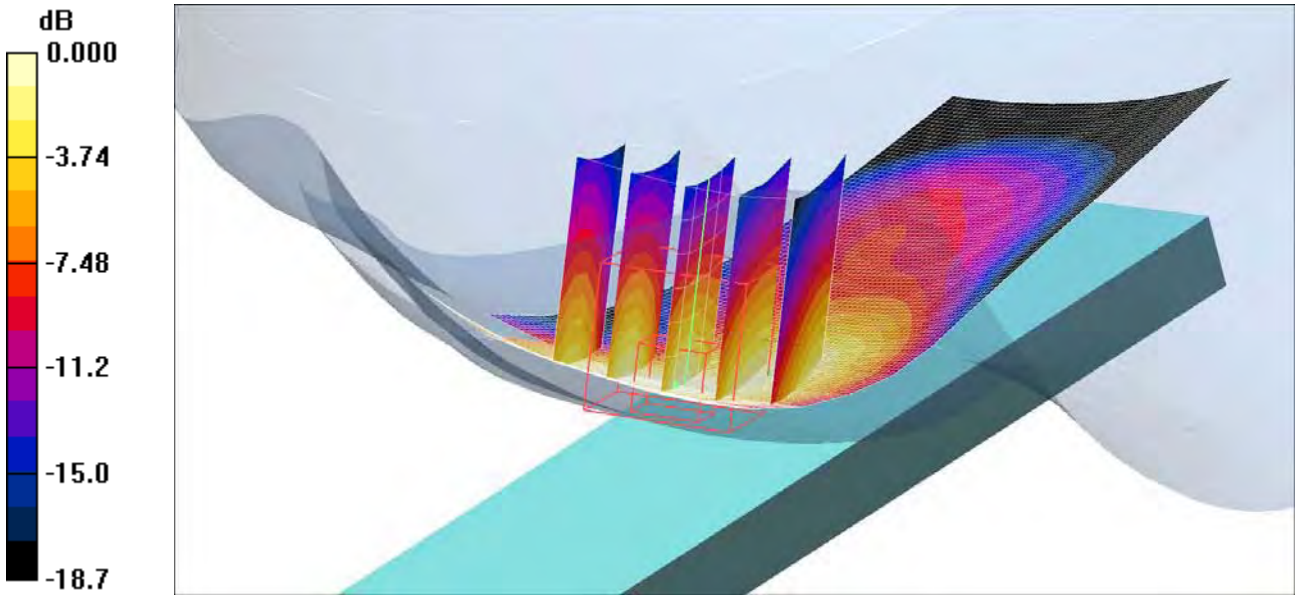
Bella-AT&T-RightHandSide-GSM1900-Touch-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: DCS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1850.2 MHz; σ = 1.42 mho/m; ε_r = 38.9; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - Low/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.30 mW/g
  Touch - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 6.67 V/m; Power Drift = -0.048 dB
  Peak SAR (extrapolated) = 1.94 W/kg
  SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.614 mW/g
  Maximum value of SAR (measured) = 1.29 mW/g



0 dB = 1.29mW/g

Date/Time: 3/14/2008 2:00:09 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

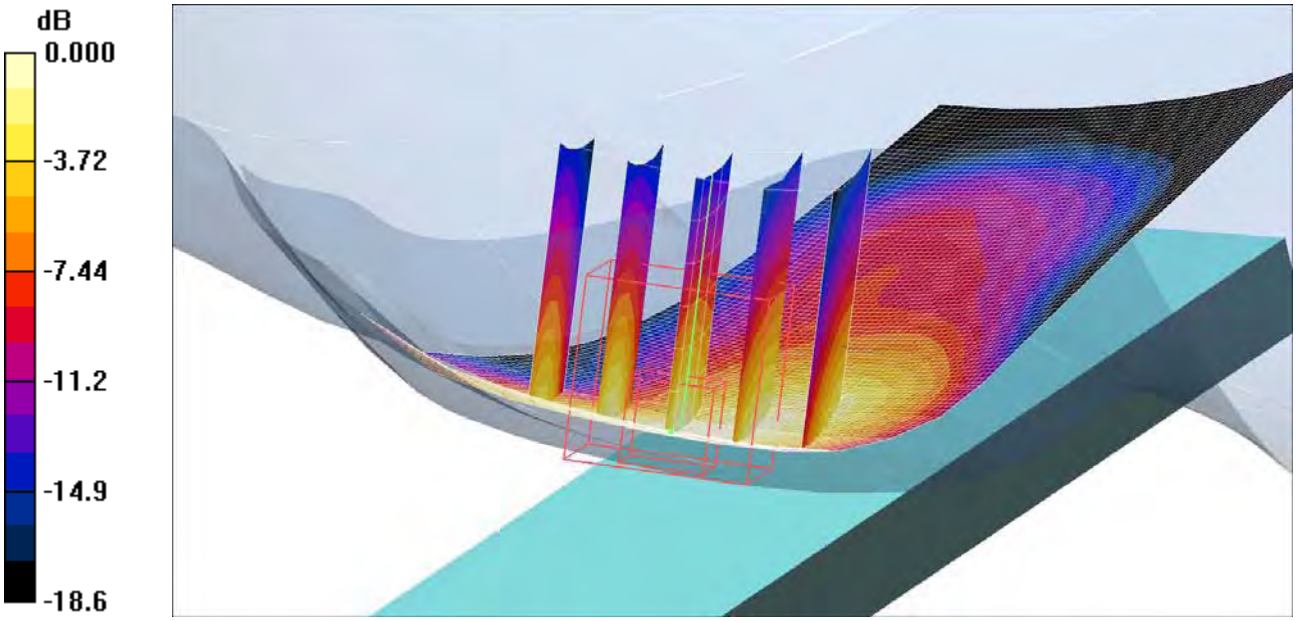
Bella-AT&T-RightHandSide-GSM1900-Touch-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.45 mho/m; ε_r = 38.8; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.38 mW/g
  Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 6.73 V/m; Power Drift = -0.005 dB
  Peak SAR (extrapolated) = 2.11 W/kg
  SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.640 mW/g
  Maximum value of SAR (measured) = 1.36 mW/g



0 dB = 1.36mW/g

Date/Time: 3/17/2008 1:40:26 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

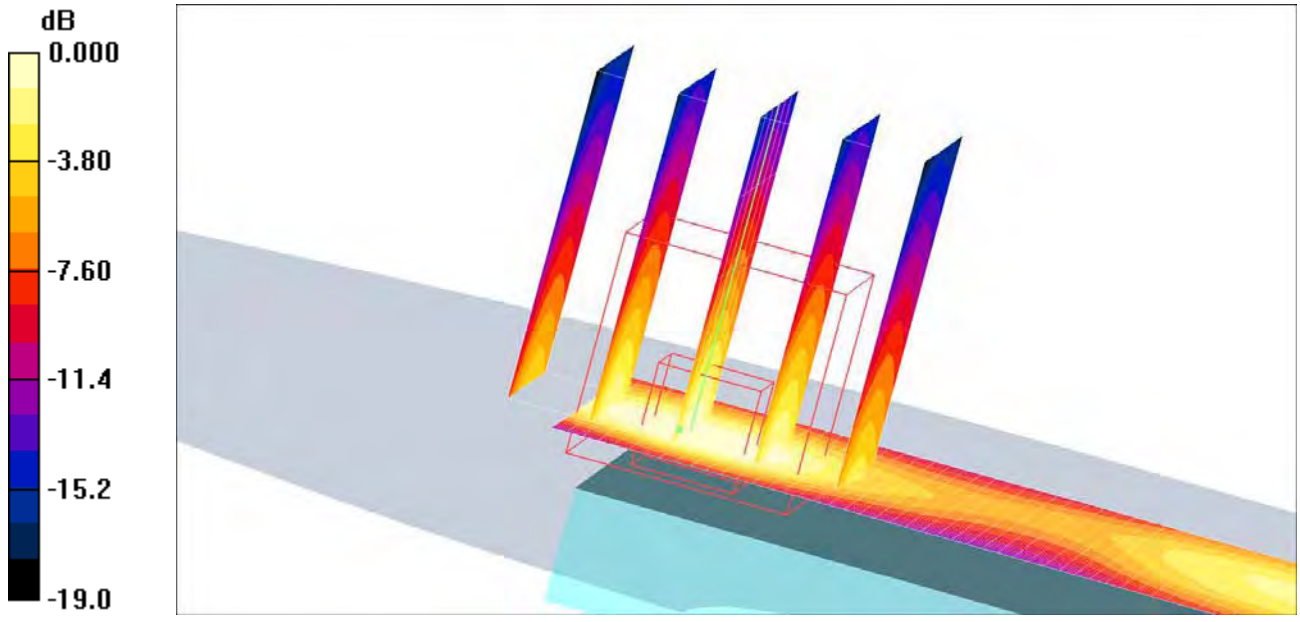
Body-Flat15mm-Bella-AT&T-1900BlueTooth-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: DCS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1909.8 MHz; σ = 1.58 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 3/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.321 mW/g
  Body 3/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 8.45 V/m; Power Drift = 0.004 dB
  Peak SAR (extrapolated) = 0.473 W/kg
  SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.156 mW/g
  Maximum value of SAR (measured) = 0.314 mW/g



0 dB = 0.314mW/g

Date/Time: 3/17/2008 1:17:56 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

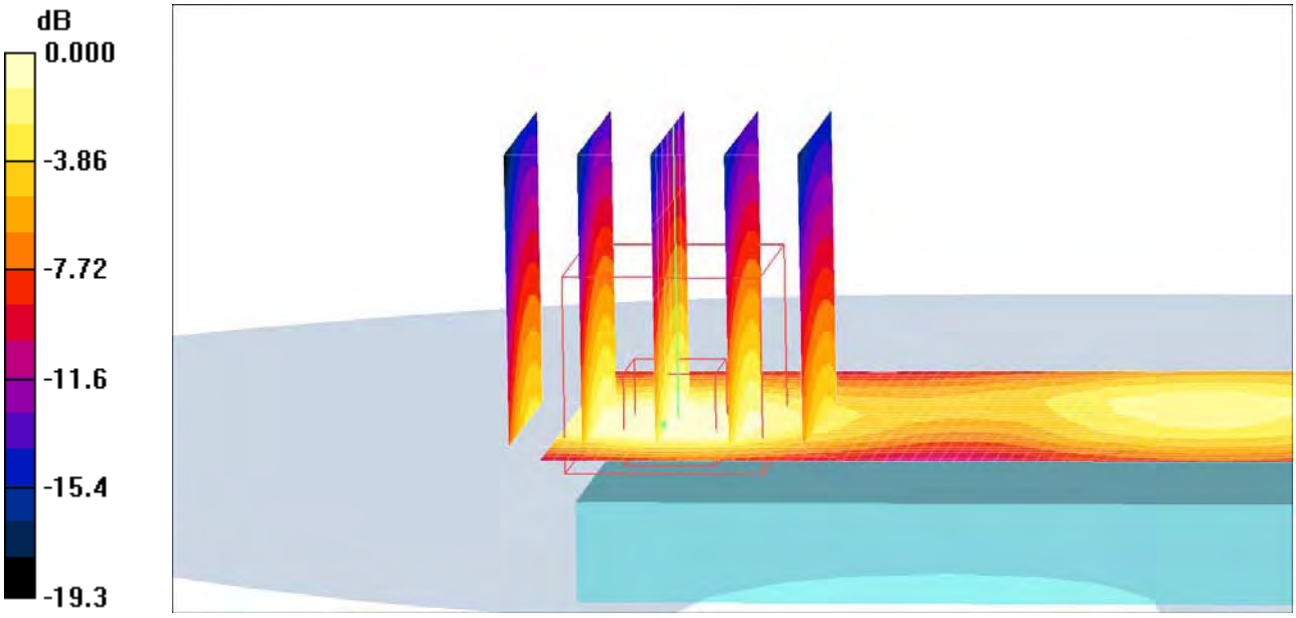
Body-Flat15mm-Bella-AT&T-1900BlueTooth-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: DCS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1850.2 MHz; σ = 1.52 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.439 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 11.0 V/m; Power Drift = -0.085 dB
  Peak SAR (extrapolated) = 0.619 W/kg
  SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.214 mW/g
  Maximum value of SAR (measured) = 0.412 mW/g



0 dB = 0.412mW/g

Date/Time: 3/17/2008 1:29:04 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

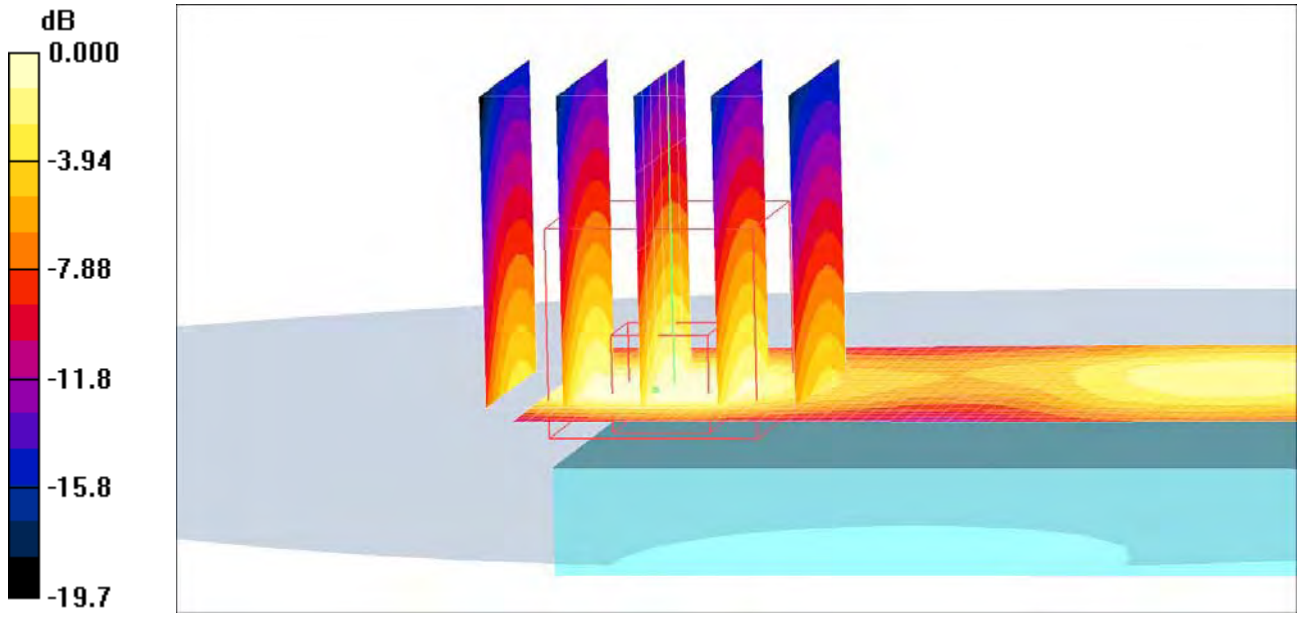
Body-Flat15mm-Bella-AT&T-1900BlueTooth-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1880 MHz; σ = 1.55 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 2/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.411 mW/g
  Body 2/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 10.4 V/m; Power Drift = -0.034 dB
  Peak SAR (extrapolated) = 0.592 W/kg
  SAR(1 g) = 0.355 mW/g; SAR(10 g) = 0.198 mW/g
  Maximum value of SAR (measured) = 0.387 mW/g



0 dB = 0.387mW/g

Date/Time: 3/17/2008 12:04:26 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

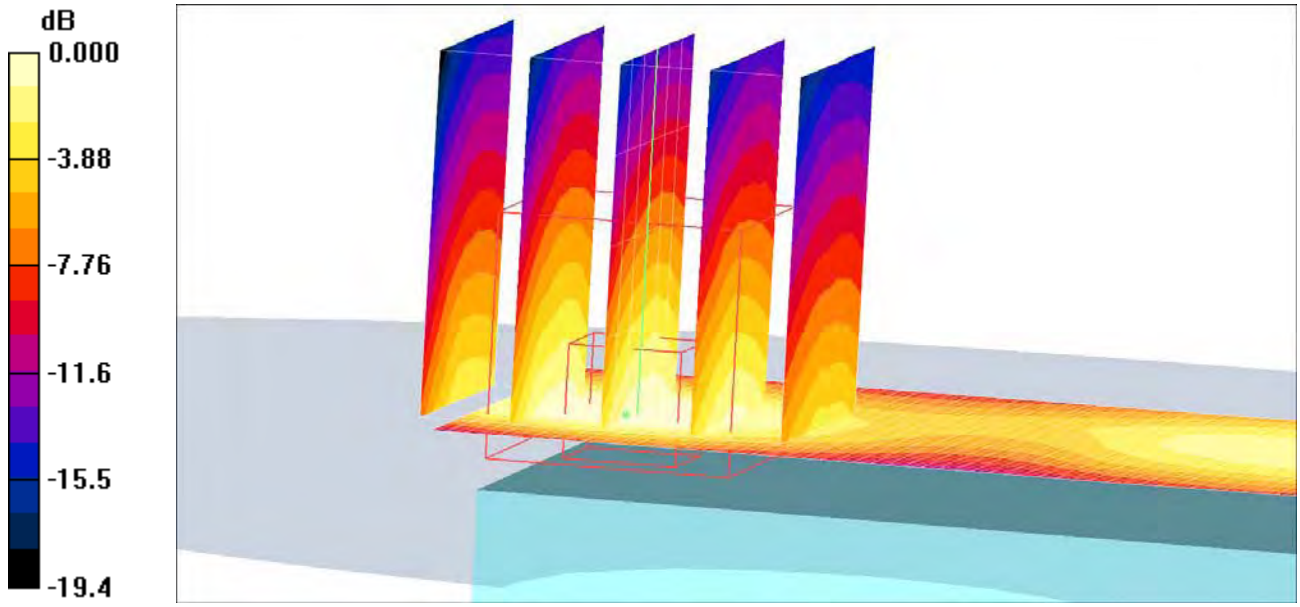
Body-Flat15mm-Bella-AT&T-1900EDGE-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GPRS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 1850.2 MHz; σ = 1.52 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.319 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 9.81 V/m; Power Drift = 0.017 dB
  Peak SAR (extrapolated) = 0.455 W/kg
  SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.166 mW/g
  Maximum value of SAR (measured) = 0.310 mW/g



0 dB = 0.310mW/g

Date/Time: 3/17/2008 2:16:06 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

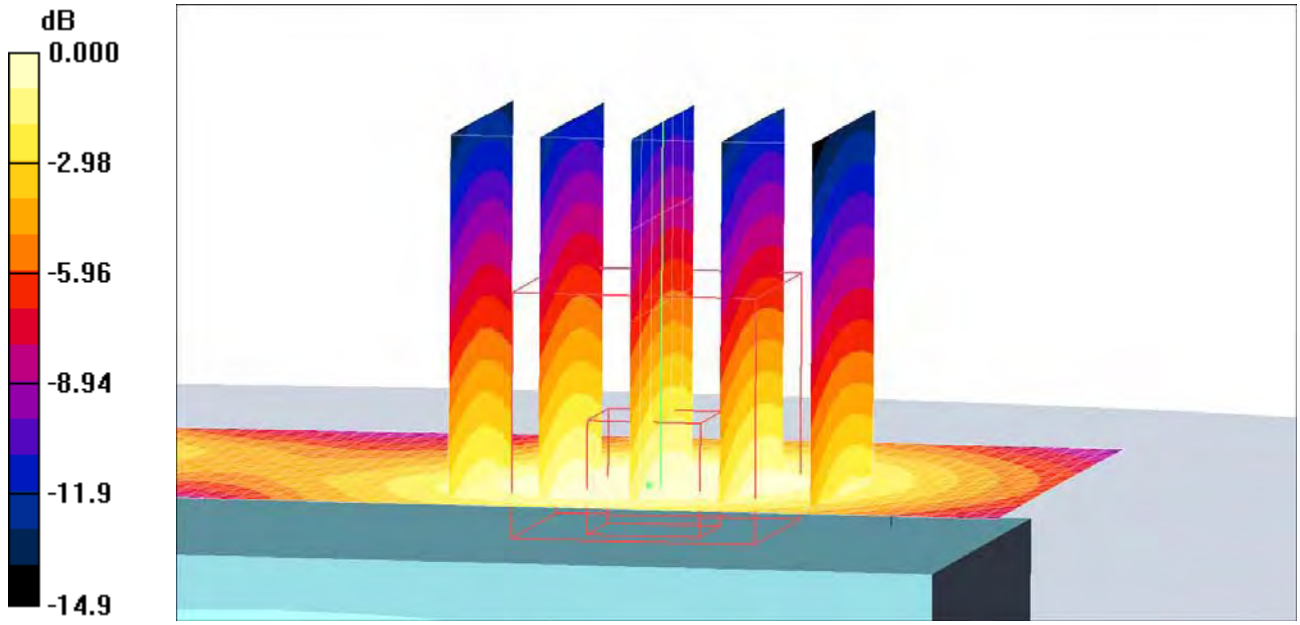
Body-Flat15mm-Bella-AT&T-1900-Front-To-Phantom-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GPRS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 1850.2 MHz; σ = 1.52 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.213 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 8.82 V/m; Power Drift = -0.095 dB
  Peak SAR (extrapolated) = 0.287 W/kg
  SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.125 mW/g
  Maximum value of SAR (measured) = 0.209 mW/g



0 dB = 0.209mW/g

Date/Time: 3/17/2008 11:50:45 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

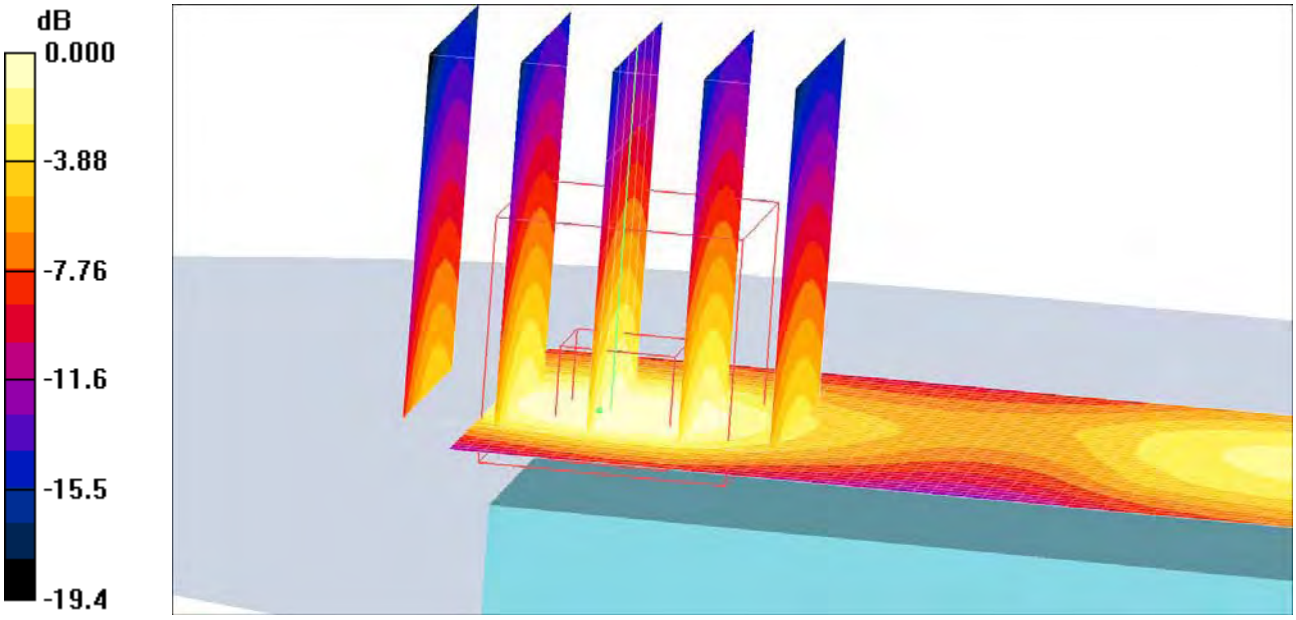
Body-Flat15mm-Bella-AT&T-1900GPRS-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GPRS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 1909.8 MHz; σ = 1.58 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 3/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.602 mW/g
  Body 3/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 11.6 V/m; Power Drift = -0.043 dB
  Peak SAR (extrapolated) = 0.886 W/kg
  SAR(1 g) = 0.534 mW/g; SAR(10 g) = 0.296 mW/g
  Maximum value of SAR (measured) = 0.591 mW/g



0 dB = 0.591mW/g

Date/Time: 3/17/2008 11:25:21 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

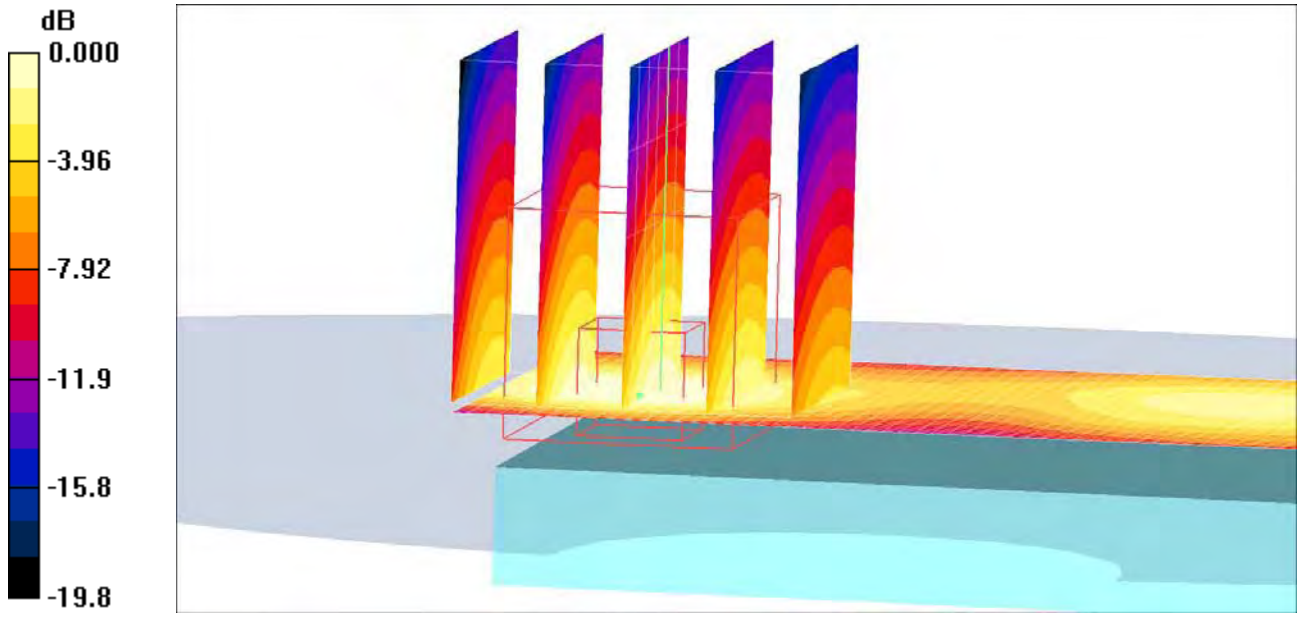
Body-Flat15mm-Bella-AT&T-1900GPRS-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GPRS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 1850.2 MHz; σ = 1.52 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.783 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 14.6 V/m; Power Drift = -0.048 dB
  Peak SAR (extrapolated) = 1.13 W/kg
  SAR(1 g) = 0.685 mW/g; SAR(10 g) = 0.388 mW/g
  Maximum value of SAR (measured) = 0.750 mW/g



0 dB = 0.750mW/g

Date/Time: 3/17/2008 11:38:00 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

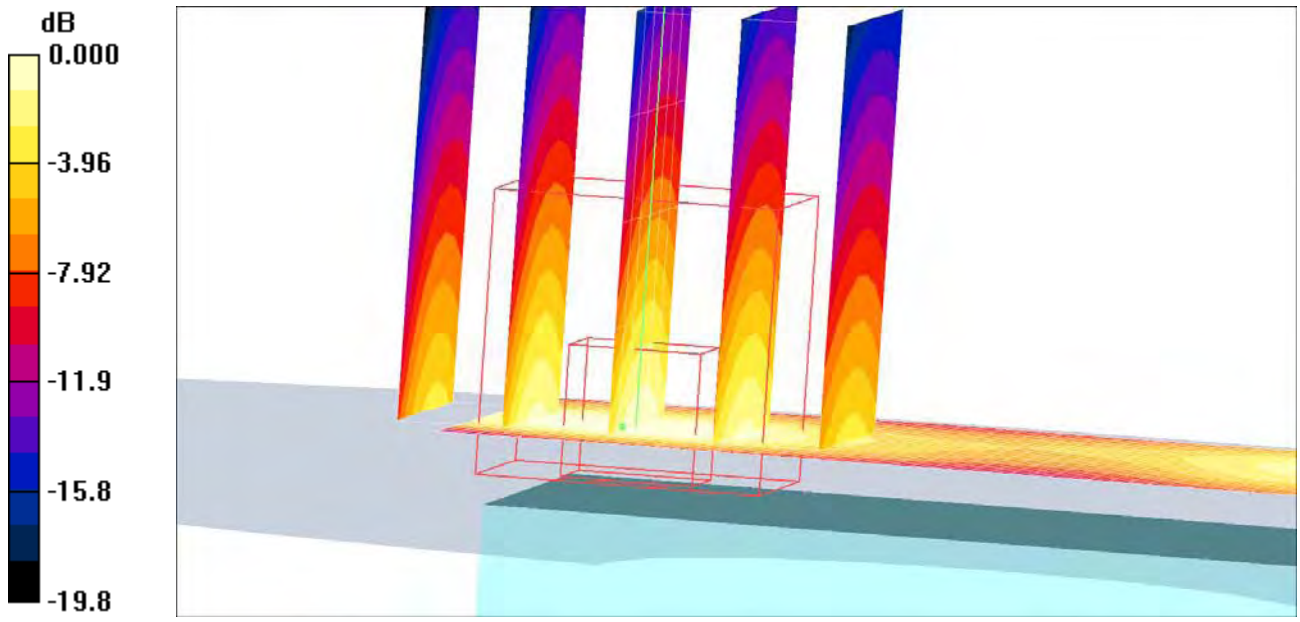
Body-Flat15mm-Bella-AT&T-1900GPRS-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GPRS 1900; Frequency: 1880 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 1880 MHz; σ = 1.55 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 2/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.735 mW/g
  Body 2/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 14.1 V/m; Power Drift = -0.176 dB
  Peak SAR (extrapolated) = 1.07 W/kg
  SAR(1 g) = 0.641 mW/g; SAR(10 g) = 0.358 mW/g
  Maximum value of SAR (measured) = 0.701 mW/g



0 dB = 0.701mW/g

Date/Time: 3/17/2008 2:00:47 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

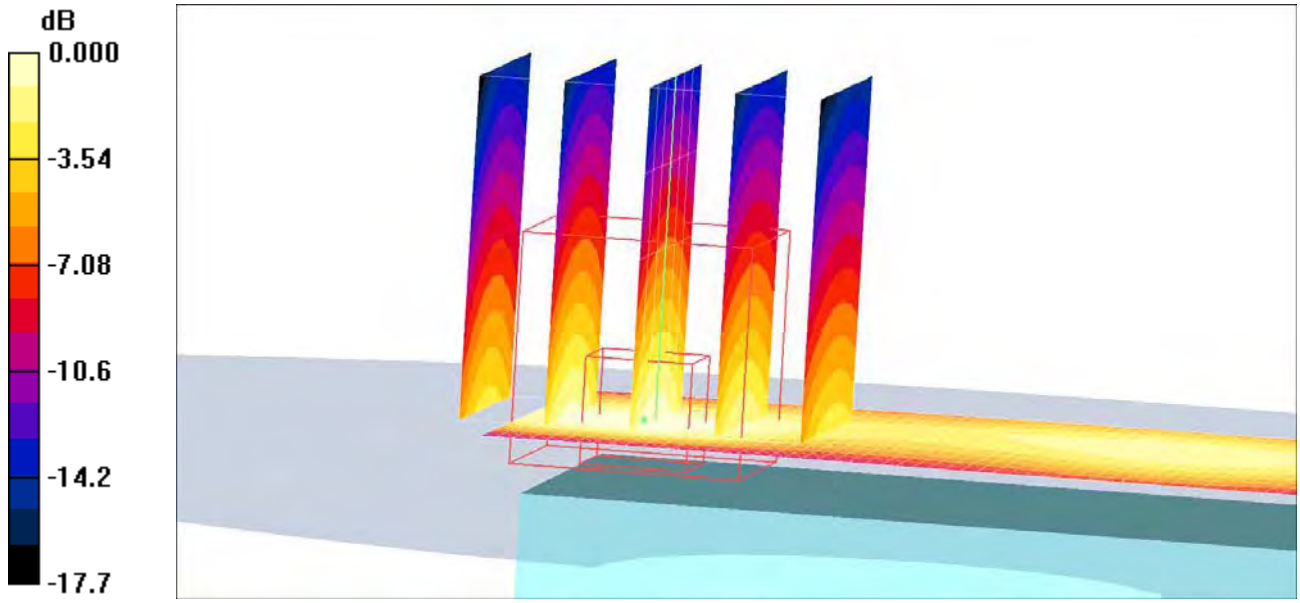
Body-Flat15mm-Bella-AT&T-1900PHF-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: DCS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 1850.2 MHz; σ = 1.52 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.333 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 12.7 V/m; Power Drift = -0.035 dB
  Peak SAR (extrapolated) = 0.521 W/kg
  SAR(1 g) = 0.318 mW/g; SAR(10 g) = 0.181 mW/g
  Maximum value of SAR (measured) = 0.351 mW/g



0 dB = 0.351mW/g

Date/Time: 3/18/2008 1:28:39 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

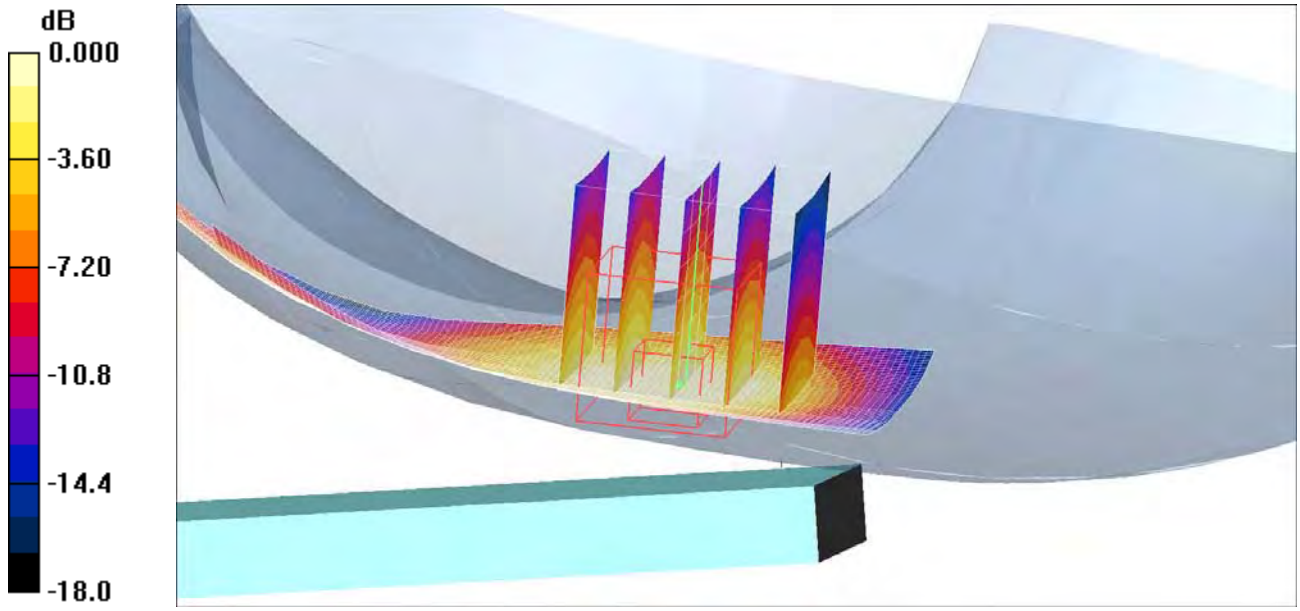
Bella-AT&T-LeftHandSide-UMTS2-Tilt-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.43 mho/m; ε_r = 38.7; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Tilt position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.228 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 8.78 V/m; Power Drift = 0.002 dB
  Peak SAR (extrapolated) = 0.292 W/kg
  SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.132 mW/g
  Maximum value of SAR (measured) = 0.224 mW/g



0 dB = 0.224mW/g

Date/Time: 3/18/2008 1:10:25 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

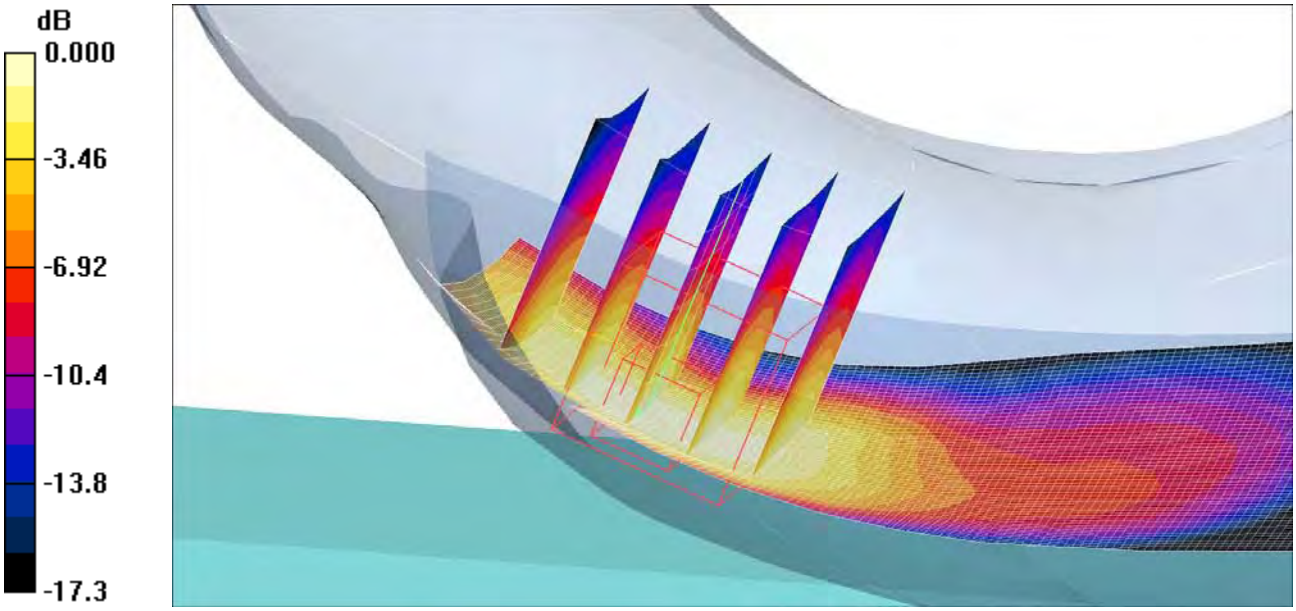
Bella-AT&T-LeftHandSide-UMTS2-Touch-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1907.6 MHz; σ = 1.47 mho/m; ε_r = 38.6; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - High/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.33 mW/g
  Touch - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 7.03 V/m; Power Drift = -0.052 dB
  Peak SAR (extrapolated) = 1.83 W/kg
  SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.666 mW/g
  Maximum value of SAR (measured) = 1.27 mW/g



0 dB = 1.27mW/g

Date/Time: 3/18/2008 11:33:11 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

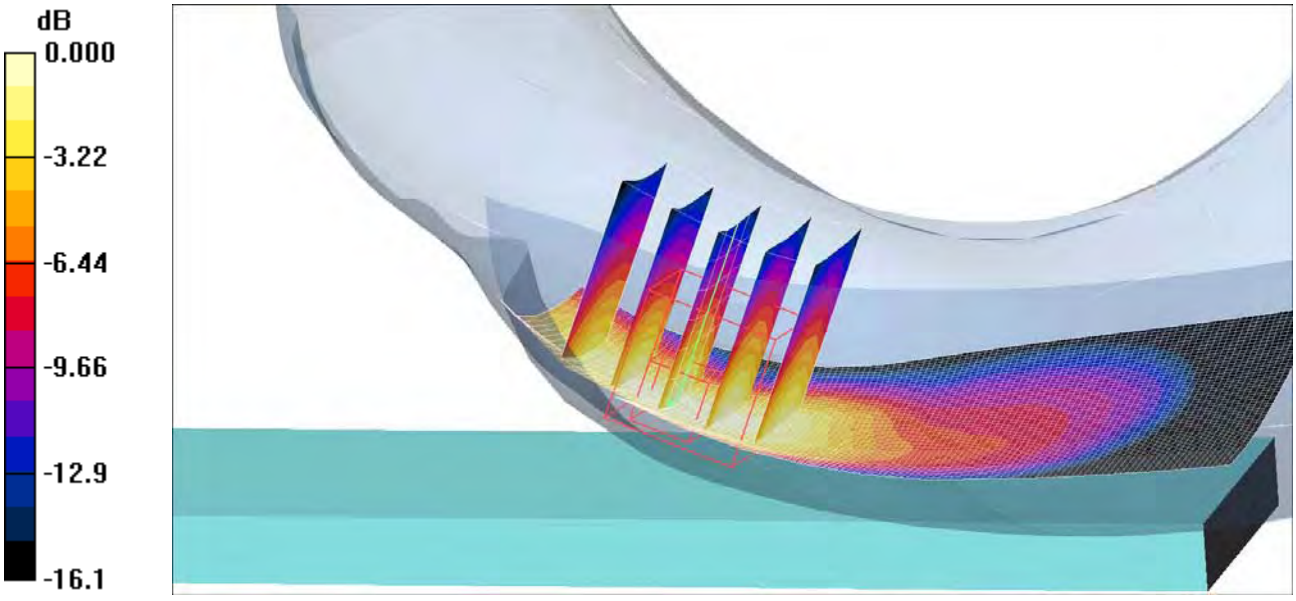
Bella-AT&T-LeftHandSide-UMTS2-Touch-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1852.4 MHz; σ = 1.41 mho/m; ε_r = 38.8; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - Low/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.27 mW/g
  Touch - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 5.80 V/m; Power Drift = -0.010 dB
  Peak SAR (extrapolated) = 1.71 W/kg
  SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.658 mW/g
  Maximum value of SAR (measured) = 1.22 mW/g



0 dB = 1.22mW/g

Date/Time: 3/18/2008 11:16:34 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

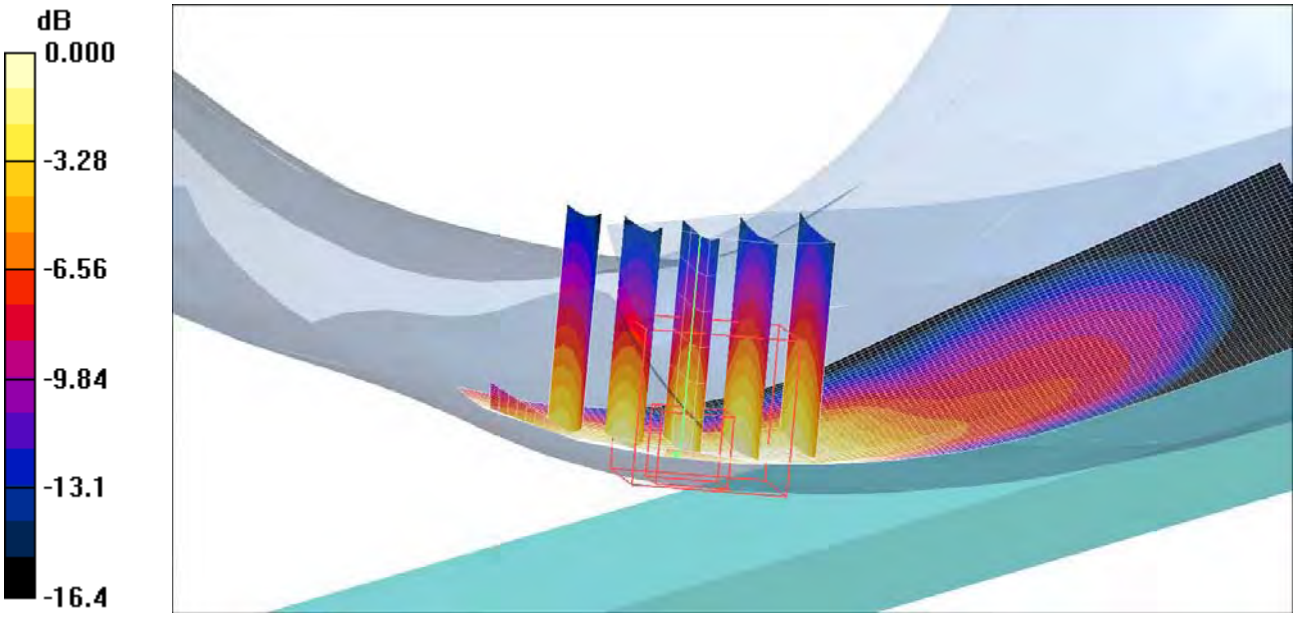
Bella-AT&T-LeftHandSide-UMTS2-Touch-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.43 mho/m; ε_r = 38.7; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.24 mW/g
  Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 5.75 V/m; Power Drift = 0.081 dB
  Peak SAR (extrapolated) = 1.68 W/kg
  SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.634 mW/g
  Maximum value of SAR (measured) = 1.18 mW/g



0 dB = 1.18mW/g

Date/Time: 3/18/2008 3:23:07 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

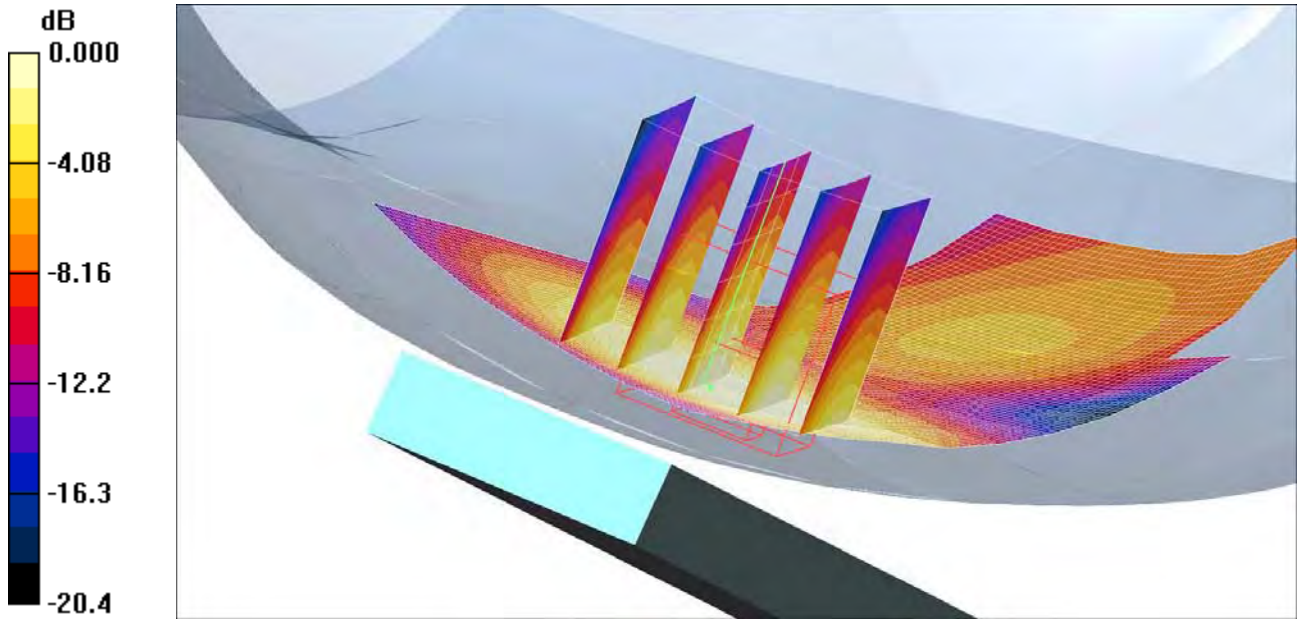
Bella-AT&T-RightHandSide-UMTS2-Tilt-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.43 mho/m; ε_r = 38.7; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Tilt position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.257 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 10.3 V/m; Power Drift = -0.033 dB
  Peak SAR (extrapolated) = 0.352 W/kg
  SAR(1 g) = 0.235 mW/g; SAR(10 g) = 0.140 mW/g
  Maximum value of SAR (measured) = 0.247 mW/g



0 dB = 0.247mW/g

Date/Time: 3/18/2008 3:05:08 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

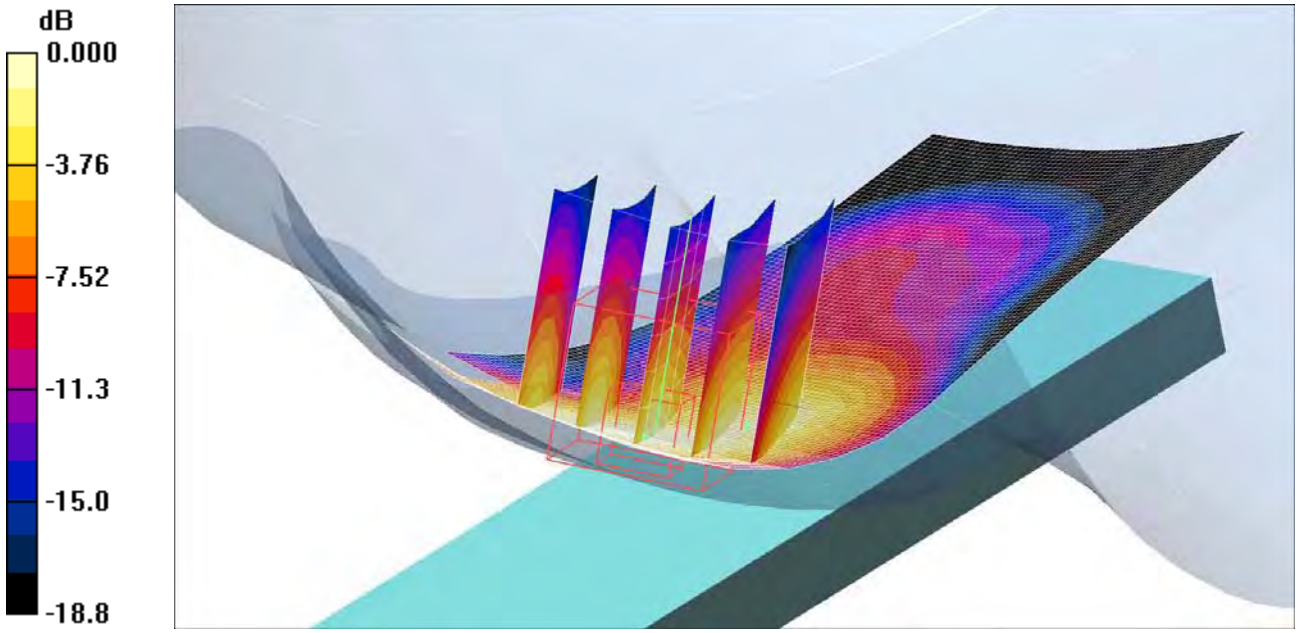
Bella-AT&T-RightHandSide-UMTS2-Touch-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1907.6 MHz; σ = 1.47 mho/m; ε_r = 38.6; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - High/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.65 mW/g
  Touch - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 6.86 V/m; Power Drift = -0.122 dB
  Peak SAR (extrapolated) = 2.51 W/kg
  SAR(1 g) = 1.43 mW/g; SAR(10 g) = 0.745 mW/g
  Maximum value of SAR (measured) = 1.61 mW/g



0 dB = 1.61mW/g

Date/Time: 3/18/2008 2:32:38 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

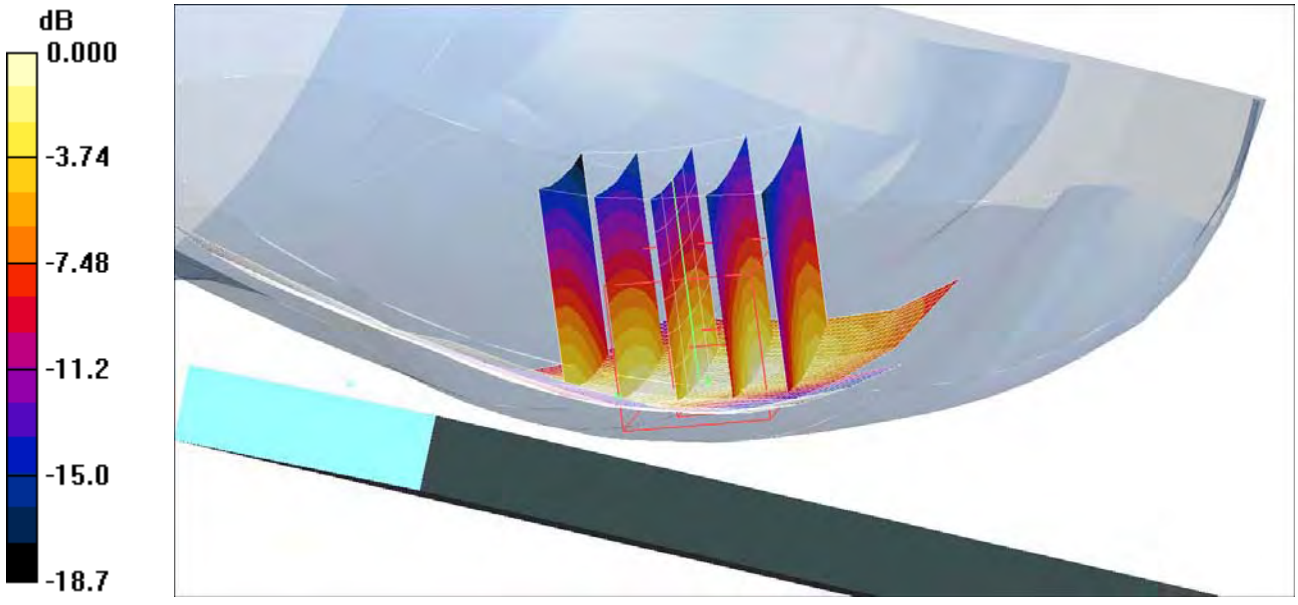
Bella-AT&T-RightHandSide-UMTS2-Touch-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1852.4 MHz; σ = 1.41 mho/m; ε_r = 38.8; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - Low/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.58 mW/g
  Touch - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 6.36 V/m; Power Drift = 0.036 dB
  Peak SAR (extrapolated) = 2.34 W/kg
  SAR(1 g) = 1.37 mW/g; SAR(10 g) = 0.733 mW/g
  Maximum value of SAR (measured) = 1.54 mW/g



0 dB = 1.54mW/g

Date/Time: 3/17/2008 4:00:14 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

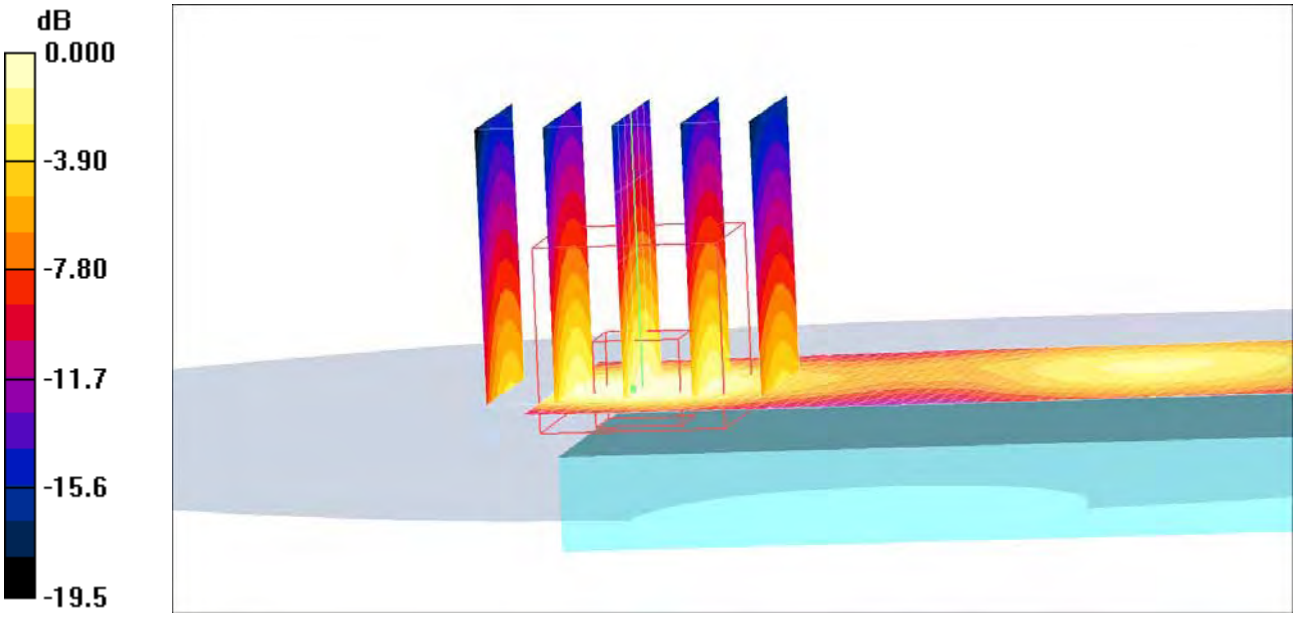
Body-Flat15mm-Bella-AT&T-UMTS2-Bluetooth-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1907.6 MHz; σ = 1.58 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 3/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.459 mW/g
  Body 3/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 10.4 V/m; Power Drift = 0.017 dB
  Peak SAR (extrapolated) = 0.672 W/kg
  SAR(1 g) = 0.400 mW/g; SAR(10 g) = 0.220 mW/g
  Maximum value of SAR (measured) = 0.449 mW/g



0 dB = 0.449mW/g

Date/Time: 3/17/2008 3:37:05 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

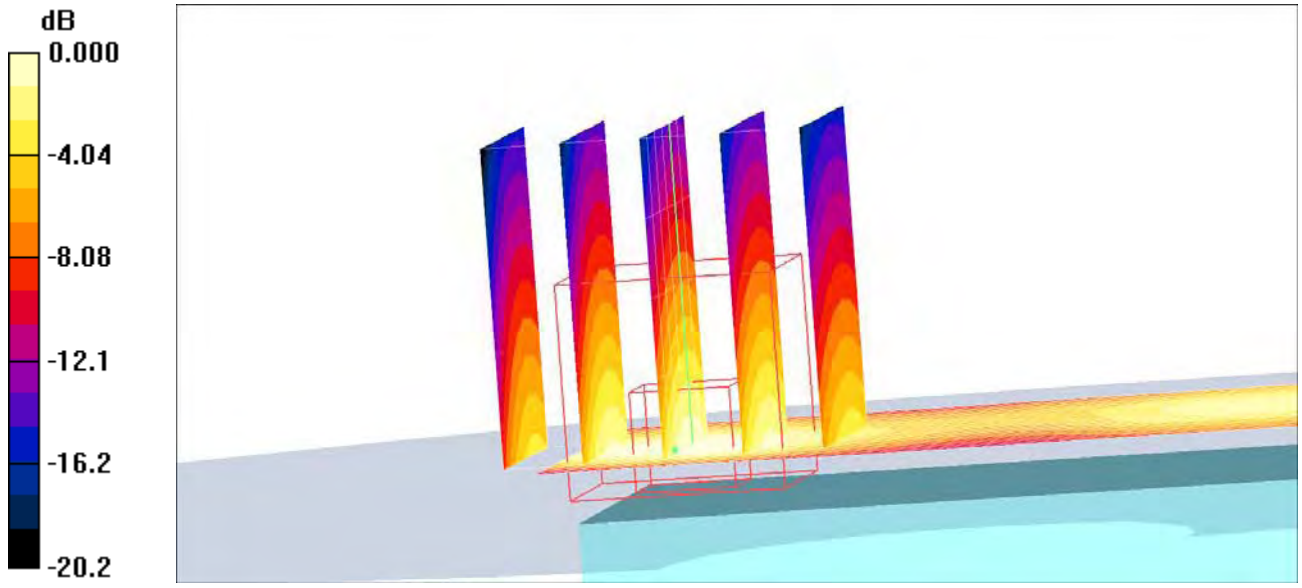
Body-Flat15mm-Bella-AT&T-UMTS2-Bluetooth-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1852.4 MHz; σ = 1.52 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.426 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 11.1 V/m; Power Drift = -0.136 dB
  Peak SAR (extrapolated) = 0.625 W/kg
  SAR(1 g) = 0.379 mW/g; SAR(10 g) = 0.213 mW/g
  Maximum value of SAR (measured) = 0.420 mW/g



0 dB = 0.420mW/g

Date/Time: 3/17/2008 3:48:26 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

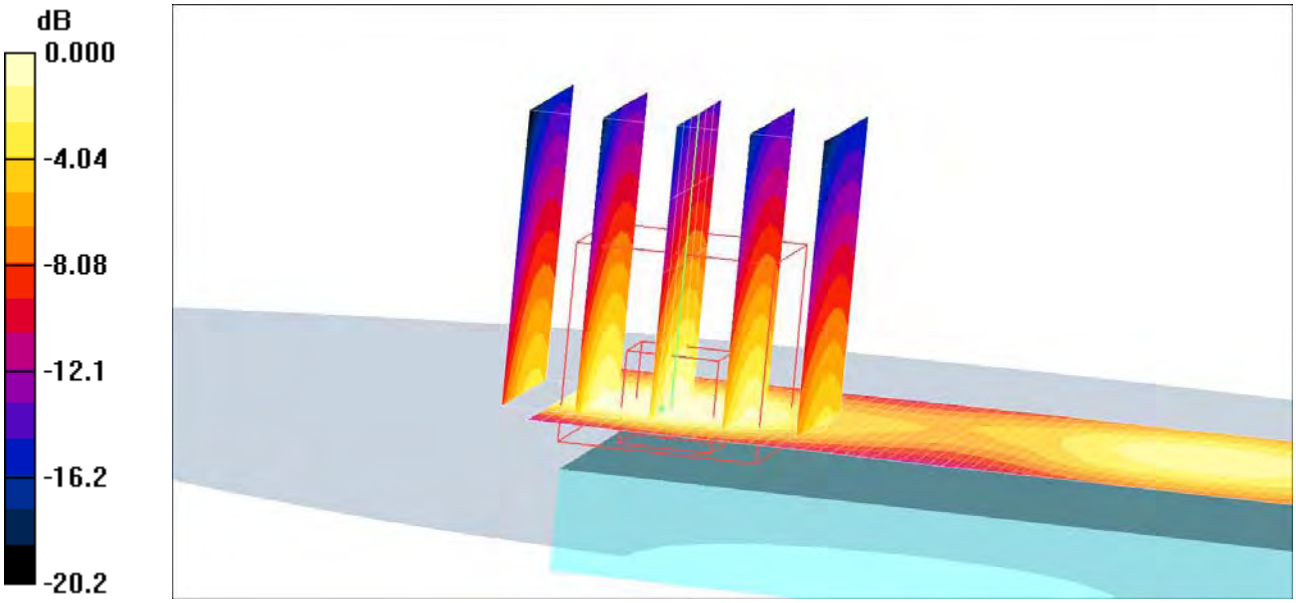
Body-Flat15mm-Bella-AT&T-UMTS2-Bluetooth-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.55 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 2/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.424 mW/g
  Body 2/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 10.5 V/m; Power Drift = -0.031 dB
  Peak SAR (extrapolated) = 0.626 W/kg
  SAR(1 g) = 0.372 mW/g; SAR(10 g) = 0.205 mW/g
  Maximum value of SAR (measured) = 0.408 mW/g



0 dB = 0.408mW/g

Date/Time: 3/17/2008 4:30:51 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

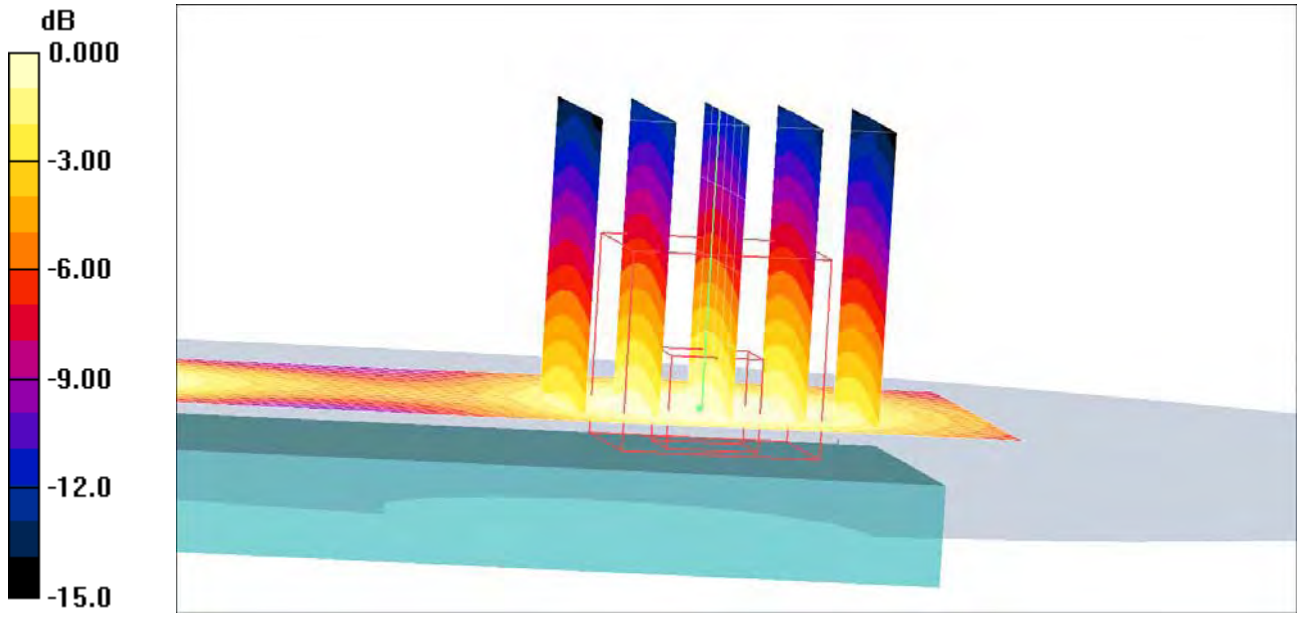
Body-Flat15mm-Bella-AT&T-UMTS2-Front-To-Phantom-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1907.6 MHz; σ = 1.58 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: DAE not calibrated
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.118 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 5.88 V/m; Power Drift = -0.002 dB
  Peak SAR (extrapolated) = 0.161 W/kg
  SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.069 mW/g
  Maximum value of SAR (measured) = 0.116 mW/g



0 dB = 0.116mW/g

Date/Time: 3/17/2008 3:21:18 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

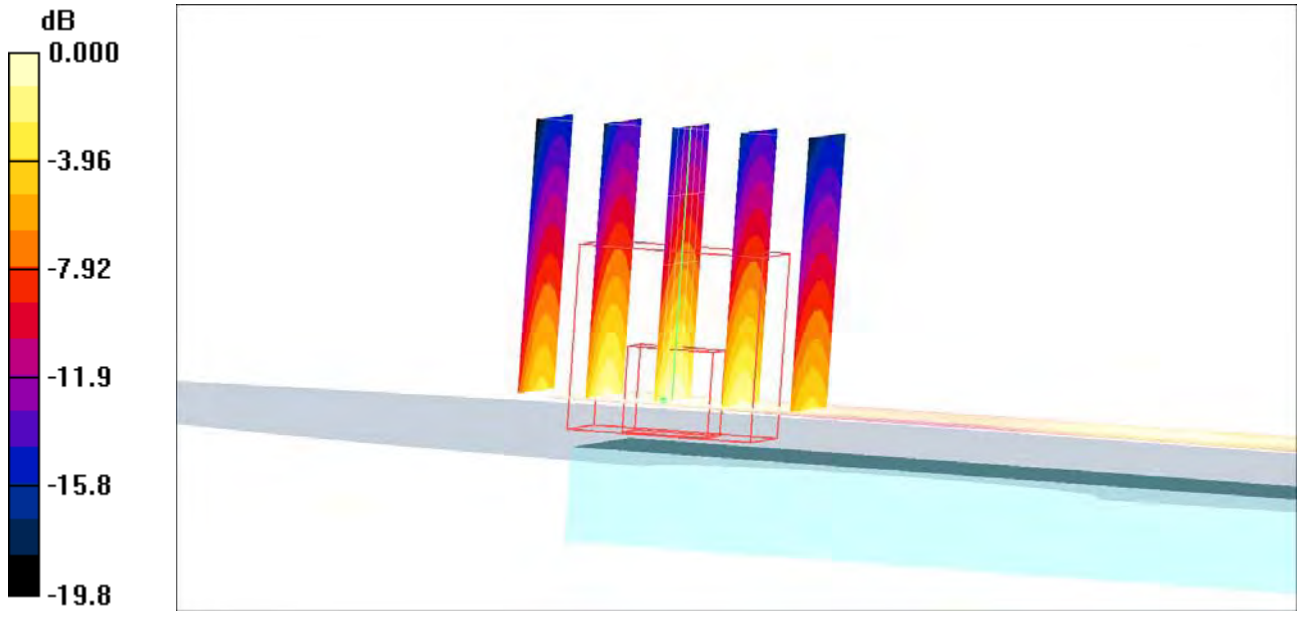
Body-Flat15mm-Bella-AT&T-UMTS2-HSDPA-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1907.6 MHz; σ = 1.58 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 3/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.411 mW/g
  Body 3/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 9.56 V/m; Power Drift = -0.068 dB
  Peak SAR (extrapolated) = 0.604 W/kg
  SAR(1 g) = 0.360 mW/g; SAR(10 g) = 0.199 mW/g
  Maximum value of SAR (measured) = 0.398 mW/g



0 dB = 0.398mW/g

Date/Time: 3/17/2008 2:52:42 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

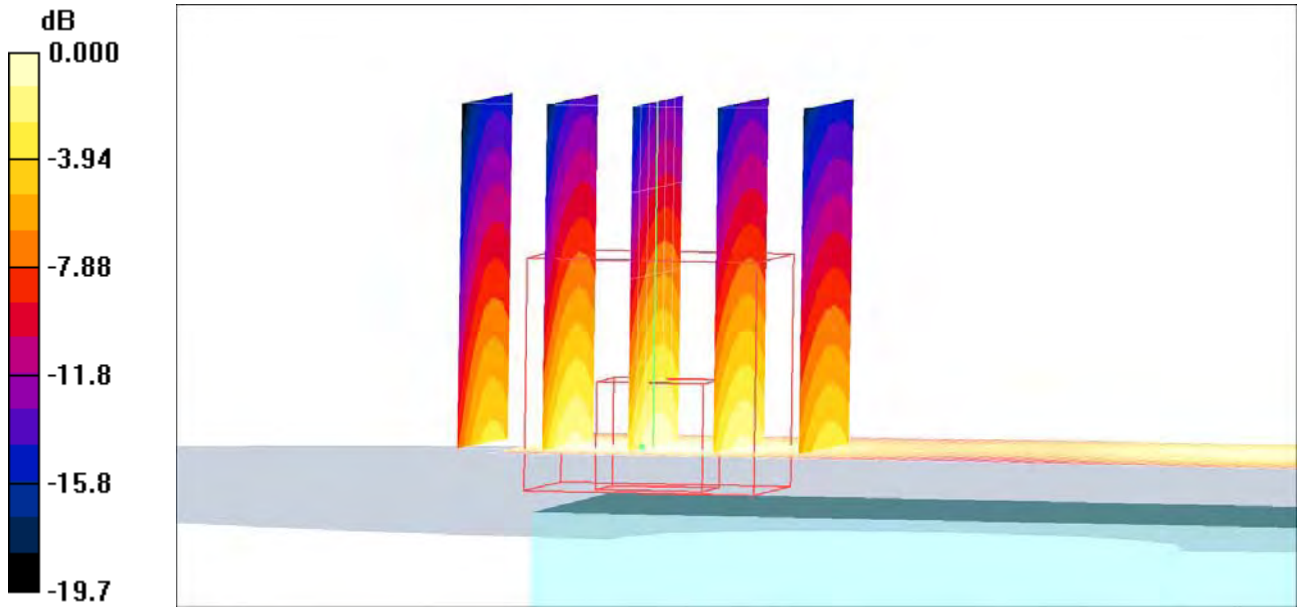
Body-Flat15mm-Bella-AT&T-UMTS2-HSDPA-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1852.4 MHz; σ = 1.52 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.352 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 9.97 V/m; Power Drift = 0.014 dB
  Peak SAR (extrapolated) = 0.507 W/kg
  SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.174 mW/g
  Maximum value of SAR (measured) = 0.337 mW/g



0 dB = 0.337mW/g

Date/Time: 3/17/2008 3:09:45 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

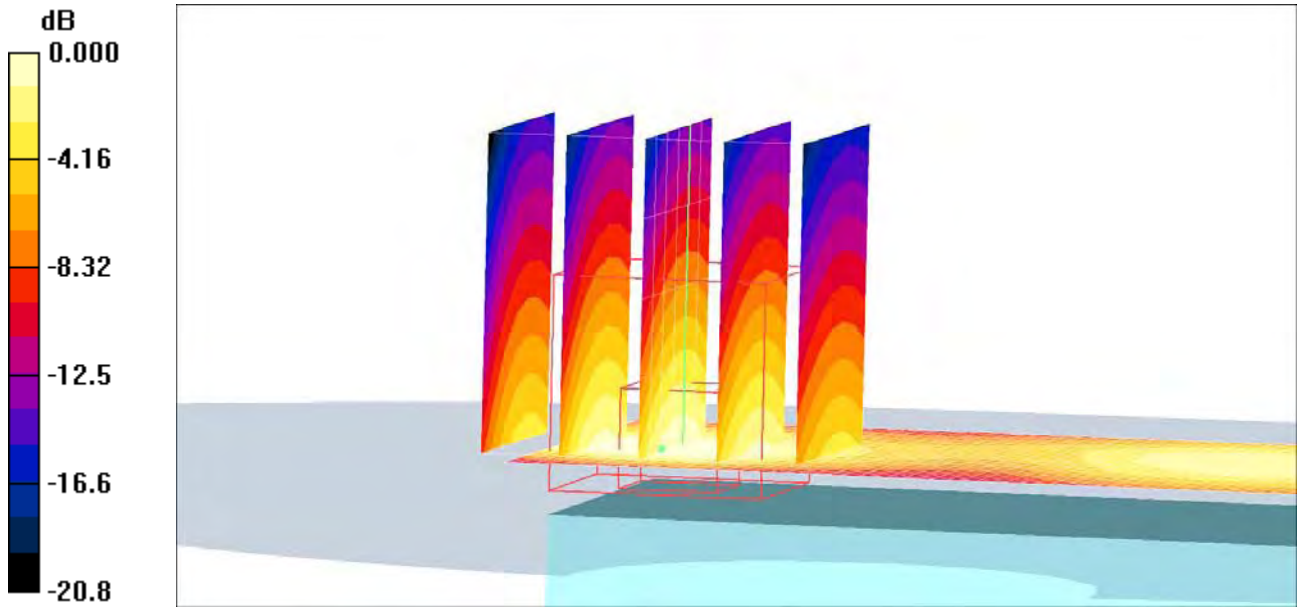
Body-Flat15mm-Bella-AT&T-UMTS2-HSDPA-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.55 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 2/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.374 mW/g
  Body 2/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 9.91 V/m; Power Drift = -0.103 dB
  Peak SAR (extrapolated) = 0.531 W/kg
  SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.177 mW/g
  Maximum value of SAR (measured) = 0.352 mW/g



0 dB = 0.352mW/g

Date/Time: 3/17/2008 4:14:57 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

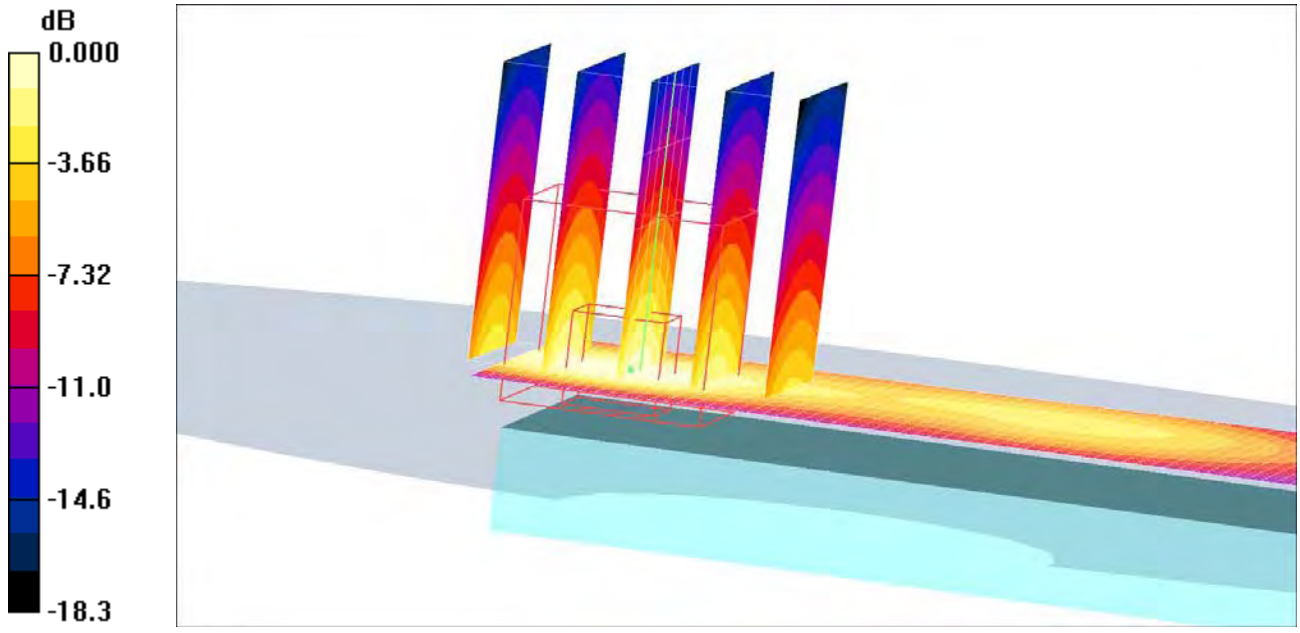
Body-Flat15mm-Bella-AT&T-UMTS2-PHF-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1907.6 MHz; σ = 1.58 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.414 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 11.5 V/m; Power Drift = 0.004 dB
  Peak SAR (extrapolated) = 0.638 W/kg
  SAR(1 g) = 0.382 mW/g; SAR(10 g) = 0.212 mW/g
  Maximum value of SAR (measured) = 0.421 mW/g



0 dB = 0.421mW/g

Date/Time: 3/18/2008 2:16:13 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

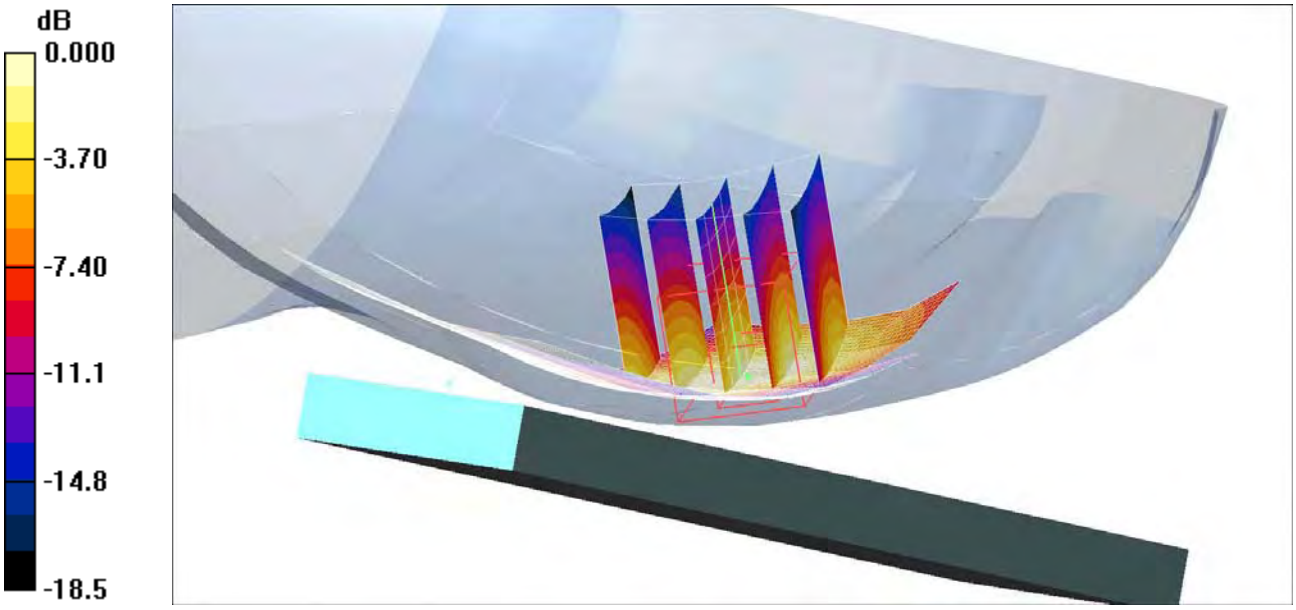
Bella-AT&T-RightHandSide-UMTS2-Touch-Middle

DUT: Bella; Type: DUT ; Serial: #10868

Communication System: WCDMA Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.43 mho/m; ε_r = 38.7; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.60 mW/g
  Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 6.55 V/m; Power Drift = -0.039 dB
  Peak SAR (extrapolated) = 2.38 W/kg
  SAR(1 g) = 1.38 mW/g; SAR(10 g) = 0.730 mW/g
  Maximum value of SAR (measured) = 1.55 mW/g



0 dB = 1.55mW/g

Date/Time: 3/12/2008 1:46:12 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

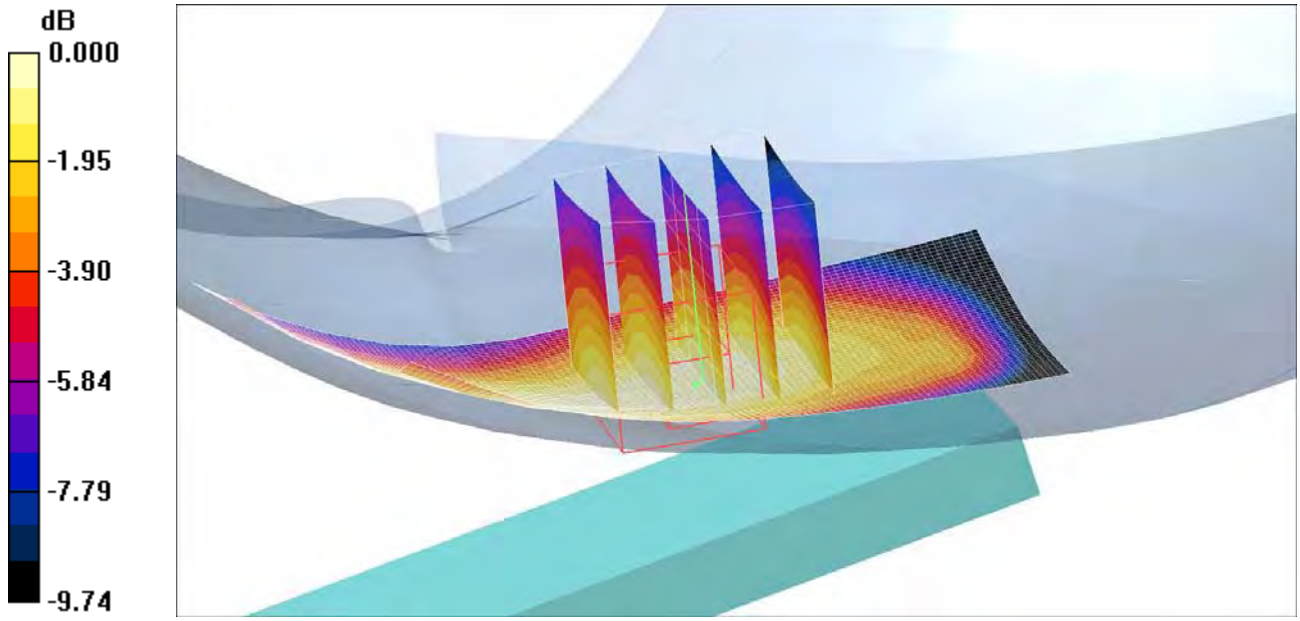
Bella-AT&T-LeftHandSide-UMTS5-Tilt-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.87 mho/m; ε_r = 40.8; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Tilt position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.312 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 14.4 V/m; Power Drift = 0.036 dB
  Peak SAR (extrapolated) = 0.358 W/kg
  SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.219 mW/g
  Maximum value of SAR (measured) = 0.311 mW/g



0 dB = 0.311mW/g

Date/Time: 3/12/2008 1:29:33 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

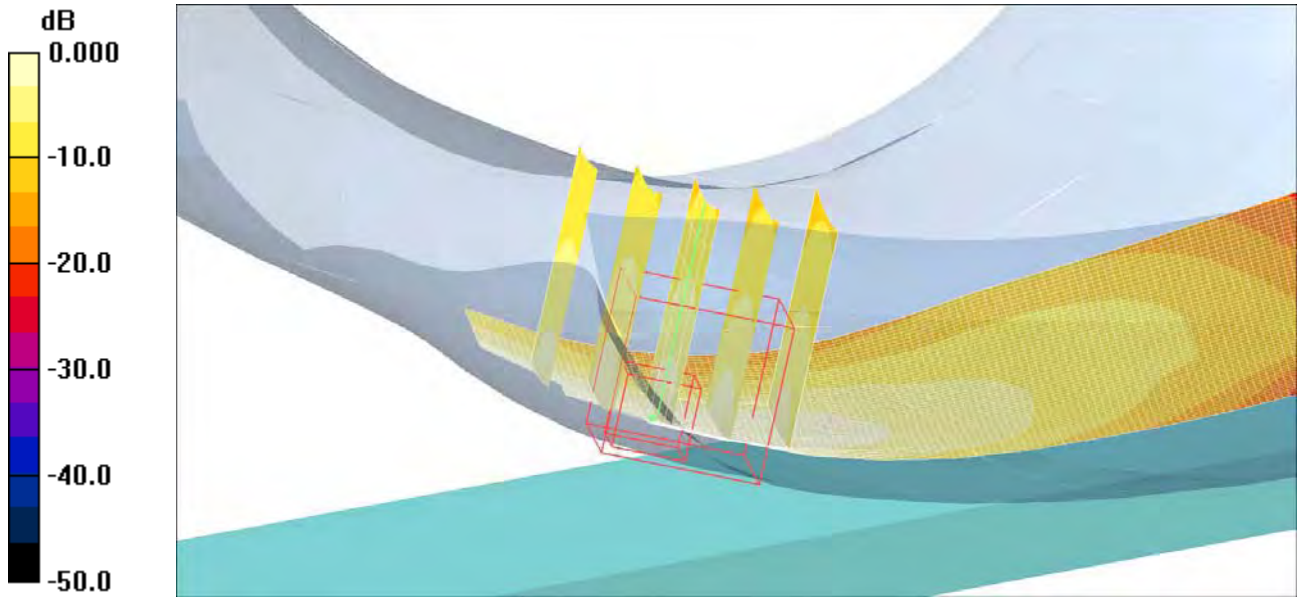
Bella-AT&T-LeftHandSide-UMTS5-Touch-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 846.6 MHz; σ = 0.88 mho/m; ε_r = 40.7; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - High/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.968 mW/g
  Touch - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 9.37 V/m; Power Drift = -0.002 dB
  Peak SAR (extrapolated) = 1.34 W/kg
  SAR(1 g) = 0.888 mW/g; SAR(10 g) = 0.540 mW/g
  Maximum value of SAR (measured) = 0.975 mW/g



0 dB = 0.975mW/g

Date/Time: 3/12/2008 12:11:47 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

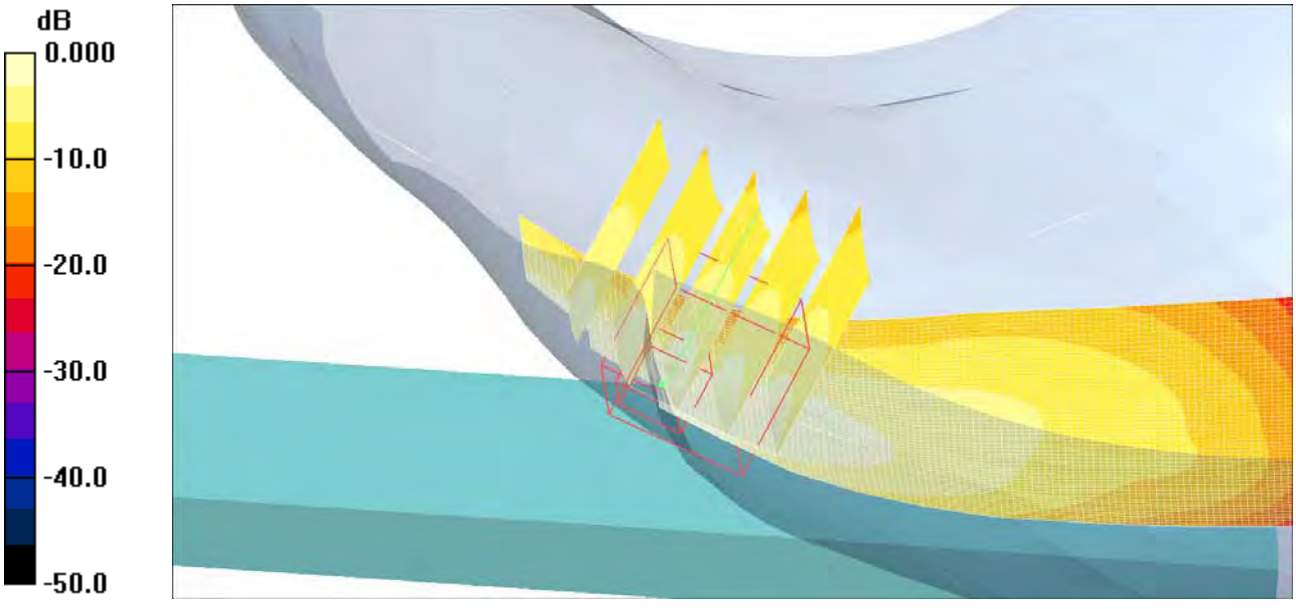
Bella-AT&T-LeftHandSide-UMTS5-Touch-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used: f = 826.4 MHz; σ = 0.86 mho/m; ε_r = 41; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - Low/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.865 mW/g
  Touch - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 9.30 V/m; Power Drift = -0.095 dB
  Peak SAR (extrapolated) = 1.20 W/kg
  SAR(1 g) = 0.800 mW/g; SAR(10 g) = 0.494 mW/g
  Maximum value of SAR (measured) = 0.875 mW/g



0 dB = 0.875mW/g

Date/Time: 3/12/2008 11:41:01 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

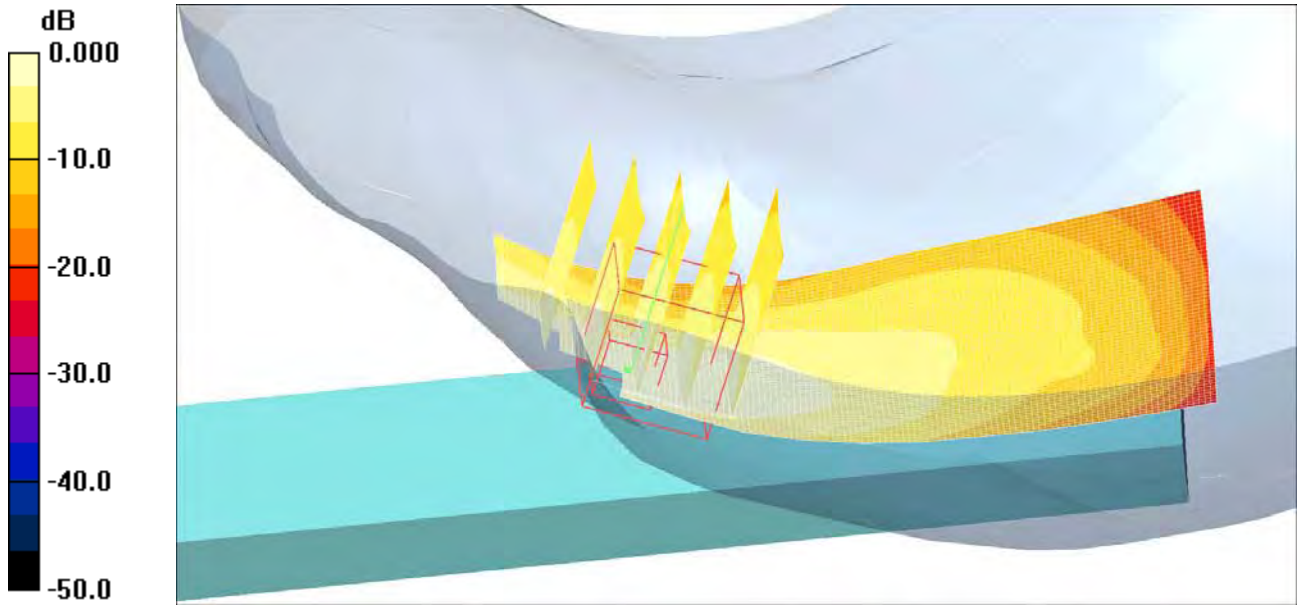
Bella-AT&T-LeftHandSide-UMTS5-Touch-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.87 mho/m; ε_r = 40.8; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.15 mW/g
  Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 10.9 V/m; Power Drift = -0.211 dB
  Peak SAR (extrapolated) = 1.61 W/kg
  SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.664 mW/g
  Maximum value of SAR (measured) = 1.17 mW/g



0 dB = 1.17mW/g

Date/Time: 3/12/2008 3:23:39 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

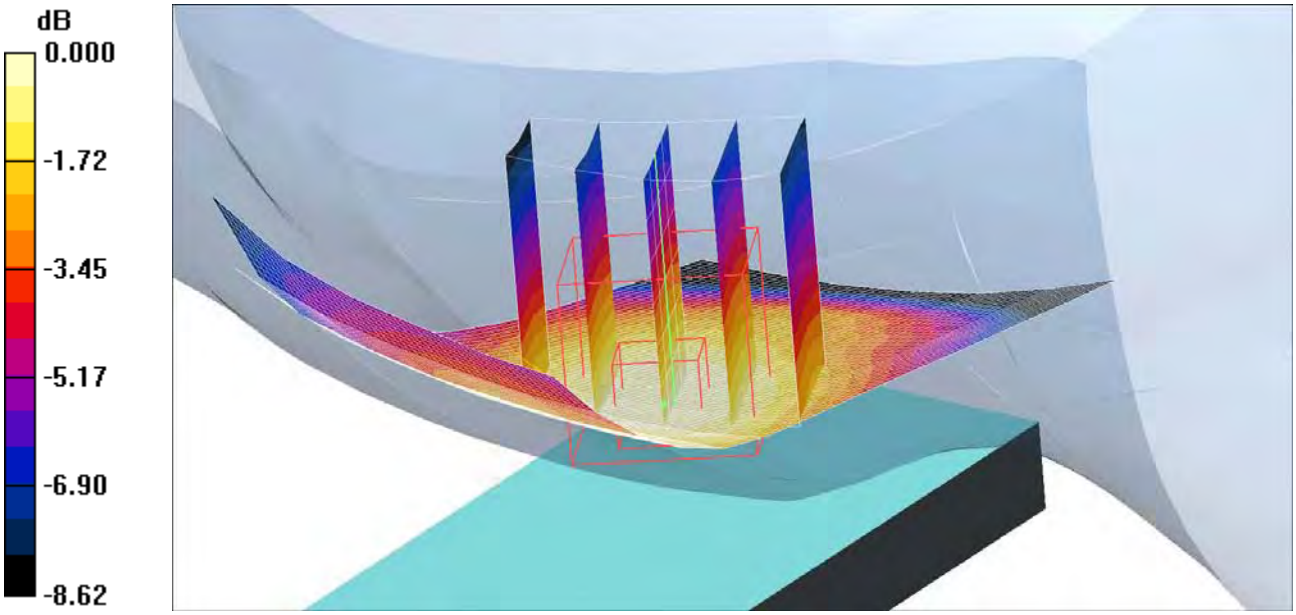
Bella-AT&T-RightHandSide-UMTS5-Tilt-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.87 mho/m; ε_r = 40.8; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Tilt position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.336 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 15.2 V/m; Power Drift = -0.022 dB
  Peak SAR (extrapolated) = 0.385 W/kg
  SAR(1 g) = 0.318 mW/g; SAR(10 g) = 0.233 mW/g
  Maximum value of SAR (measured) = 0.336 mW/g



0 dB = 0.336mW/g

Date/Time: 3/12/2008 3:05:49 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

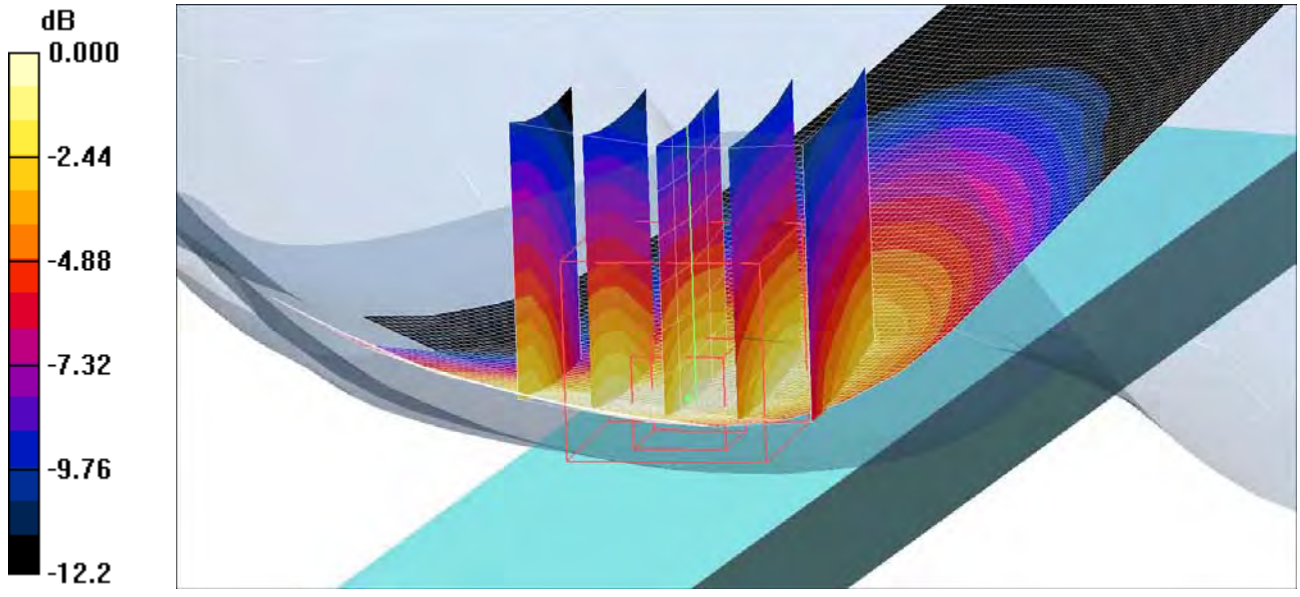
Bella-AT&T-RightHandSide-UMTS5-Touch-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 846.6 MHz; σ = 0.88 mho/m; ε_r = 40.7; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - High/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.08 mW/g
  Touch - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 10.2 V/m; Power Drift = -0.086 dB
  Peak SAR (extrapolated) = 1.50 W/kg
  SAR(1 g) = 0.985 mW/g; SAR(10 g) = 0.608 mW/g
  Maximum value of SAR (measured) = 1.08 mW/g



0 dB = 1.08mW/g

Date/Time: 3/12/2008 2:43:03 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

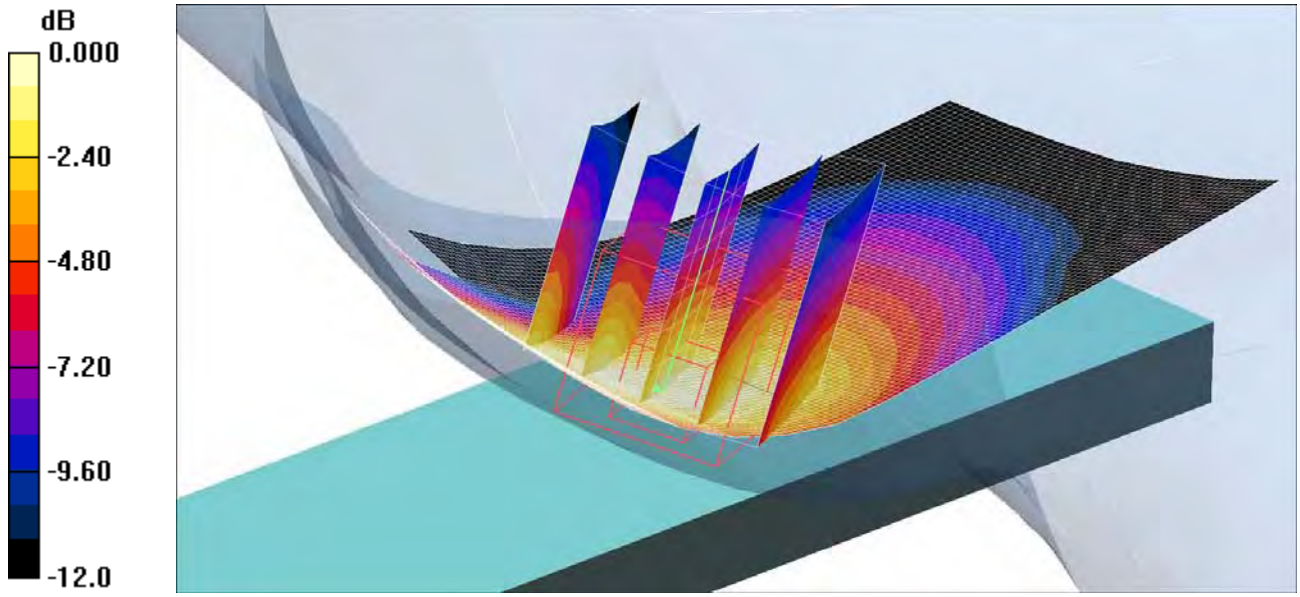
Bella-AT&T-RightHandSide-UMTS5-Touch-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used: f = 826.4 MHz; σ = 0.86 mho/m; ε_r = 41; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - Low/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.962 mW/g
  Touch - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 10.3 V/m; Power Drift = -0.179 dB
  Peak SAR (extrapolated) = 1.33 W/kg
  SAR(1 g) = 0.874 mW/g; SAR(10 g) = 0.543 mW/g
  Maximum value of SAR (measured) = 0.961 mW/g



0 dB = 0.961mW/g

Date/Time: 3/12/2008 2:26:47 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

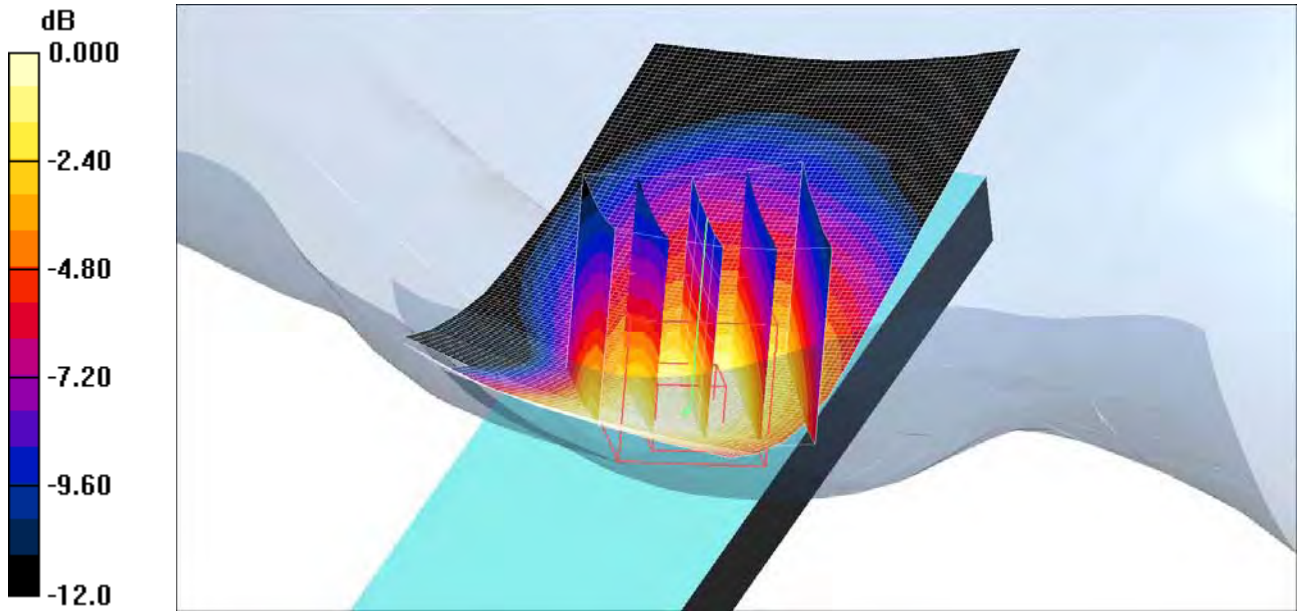
Bella-AT&T-RightHandSide-UMTS5-Touch-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.87 mho/m; ε_r = 40.8; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.28 mW/g
  Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 11.8 V/m; Power Drift = 0.333 dB
  Peak SAR (extrapolated) = 1.76 W/kg
  SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.716 mW/g
  Maximum value of SAR (measured) = 1.25 mW/g



0 dB = 1.25mW/g

Date/Time: 3/13/2008 10:05:44 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

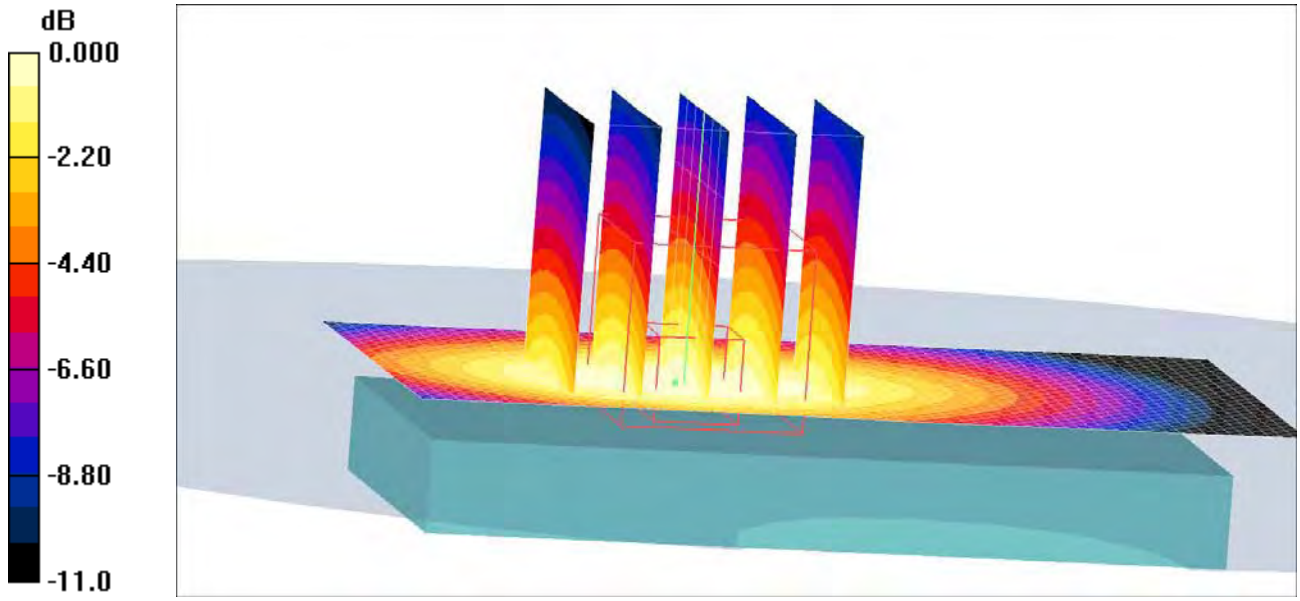
Body-Flat15mm-Bella-AT&T-UMTS5-Bluetooth-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 846.6 MHz; σ = 1 mho/m; ε_r = 54.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 3/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.484 mW/g
  Body 3/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 21.1 V/m; Power Drift = 0.024 dB
  Peak SAR (extrapolated) = 0.606 W/kg
  SAR(1 g) = 0.455 mW/g; SAR(10 g) = 0.318 mW/g
  Maximum value of SAR (measured) = 0.484 mW/g



0 dB = 0.484mW/g

Date/Time: 3/13/2008 9:42:17 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

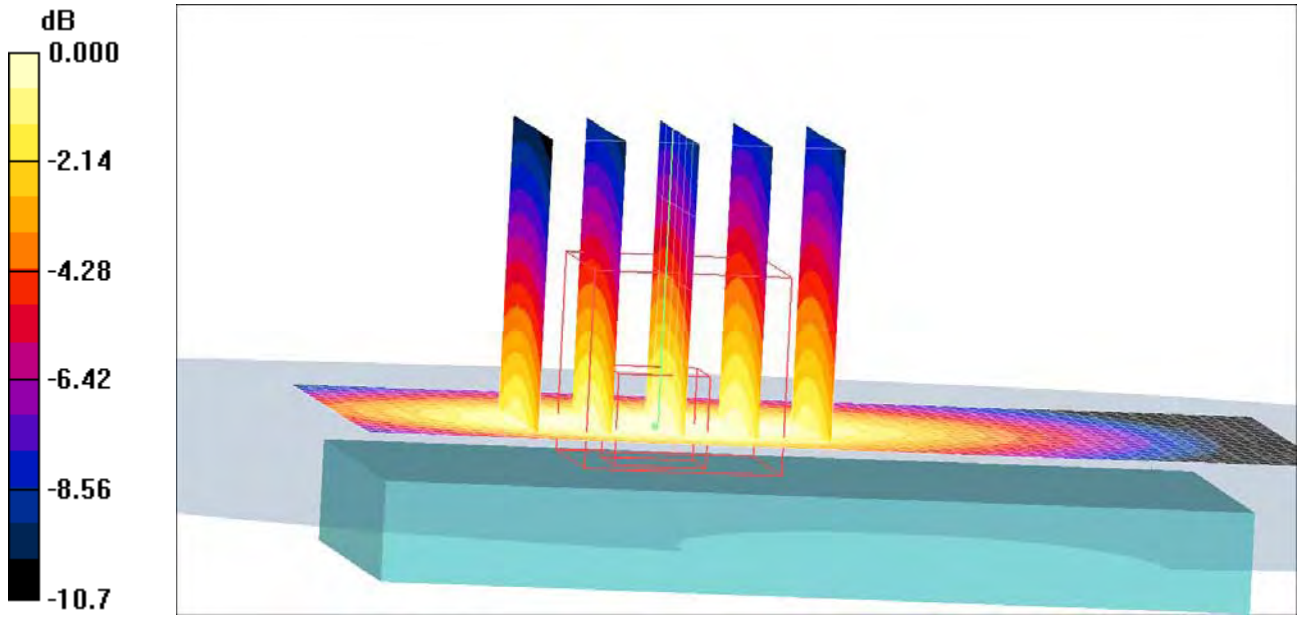
Body-Flat15mm-Bella-AT&T-UMTS5-Bluetooth-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used: f = 826.4 MHz; σ = 0.98 mho/m; ε_r = 55; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.451 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 20.5 V/m; Power Drift = -0.122 dB
  Peak SAR (extrapolated) = 0.547 W/kg
  SAR(1 g) = 0.417 mW/g; SAR(10 g) = 0.295 mW/g
  Maximum value of SAR (measured) = 0.443 mW/g



0 dB = 0.443mW/g

Date/Time: 3/13/2008 9:53:21 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

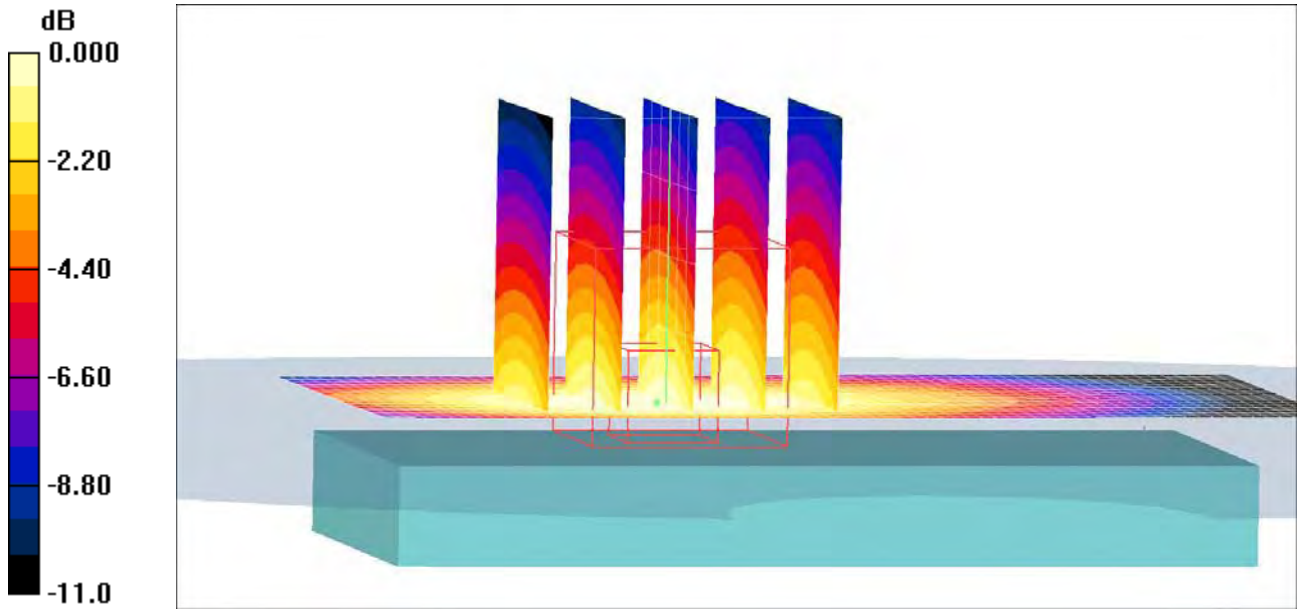
Body-Flat15mm-Bella-AT&T-UMTS5-Bluetooth-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.99 mho/m; ε_r = 54.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 2/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.620 mW/g
  Body 2/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 23.9 V/m; Power Drift = 0.014 dB
  Peak SAR (extrapolated) = 0.779 W/kg
  SAR(1 g) = 0.584 mW/g; SAR(10 g) = 0.408 mW/g
  Maximum value of SAR (measured) = 0.624 mW/g



0 dB = 0.624mW/g

Date/Time: 3/13/2008 10:36:49 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

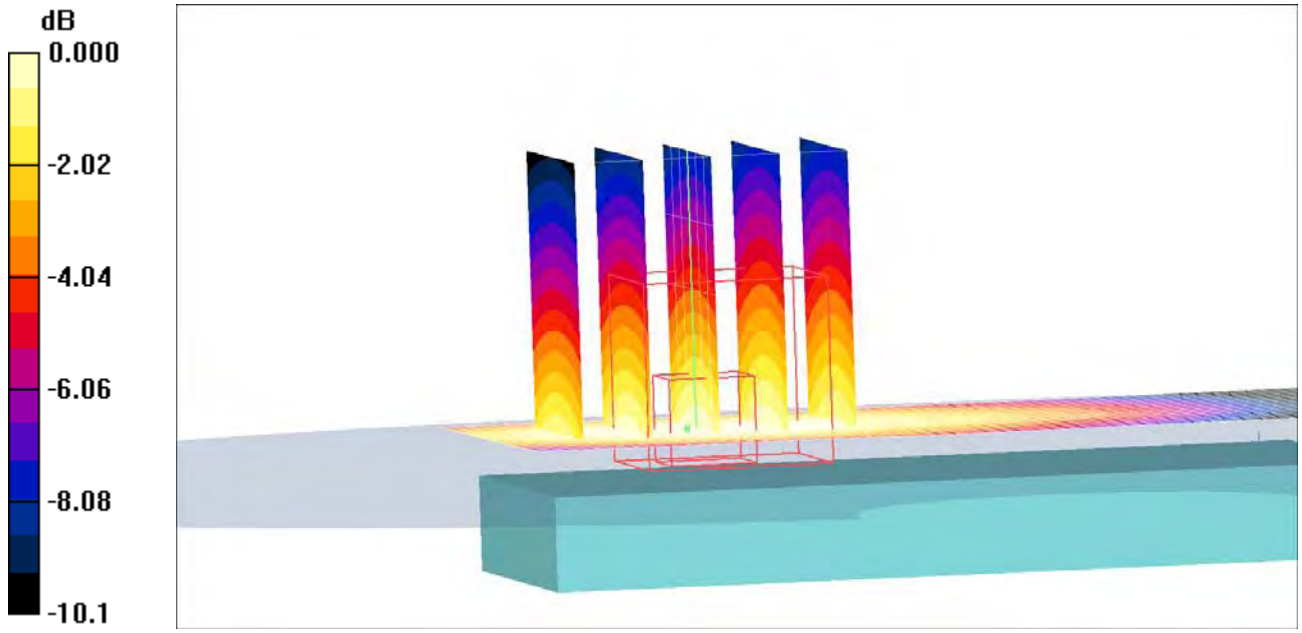
Body-Flat15mm-Bella-AT&T-UMTS5-Front-to-Phantom-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.99 mho/m; ε_r = 54.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.249 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 14.6 V/m; Power Drift = 0.001 dB
  Peak SAR (extrapolated) = 0.302 W/kg
  SAR(1 g) = 0.234 mW/g; SAR(10 g) = 0.169 mW/g
  Maximum value of SAR (measured) = 0.248 mW/g



0 dB = 0.248mW/g

Date/Time: 3/13/2008 9:25:02 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

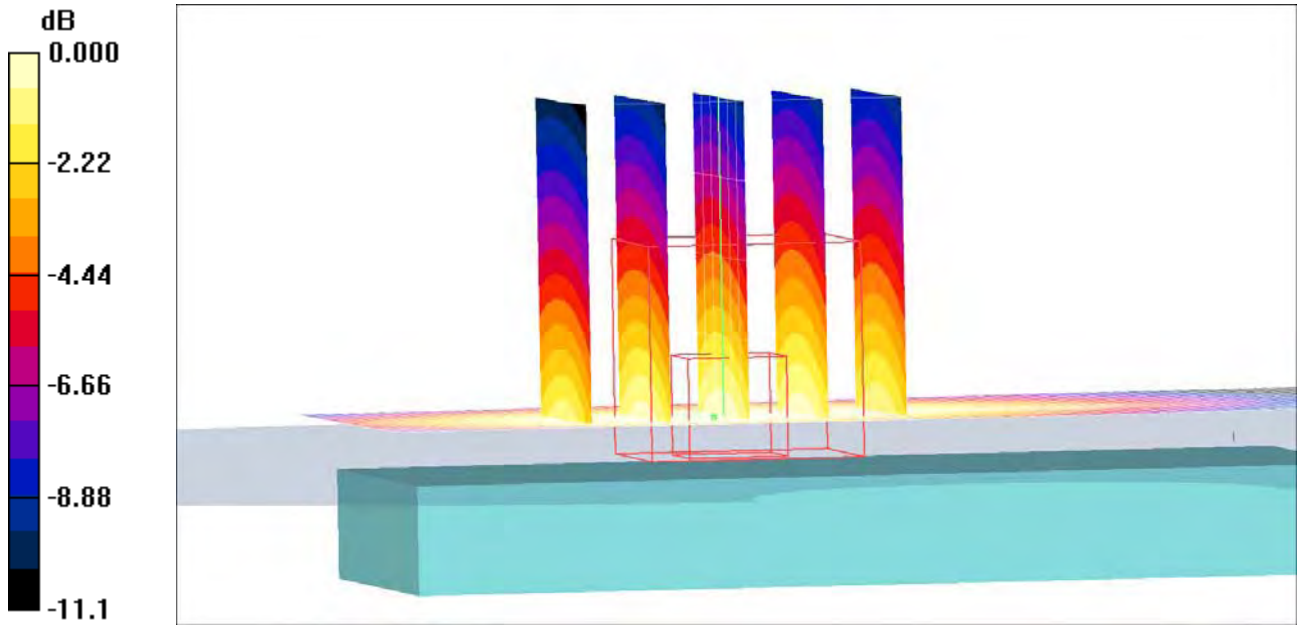
Body-Flat15mm-Bella-AT&T-UMTS5-HSDPA-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 846.6 MHz; σ = 1 mho/m; ε_r = 54.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 3/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.429 mW/g
  Body 3/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 20.3 V/m; Power Drift = -0.049 dB
  Peak SAR (extrapolated) = 0.538 W/kg
  SAR(1 g) = 0.404 mW/g; SAR(10 g) = 0.284 mW/g
  Maximum value of SAR (measured) = 0.430 mW/g



0 dB = 0.430mW/g

Date/Time: 3/13/2008 8:54:30 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

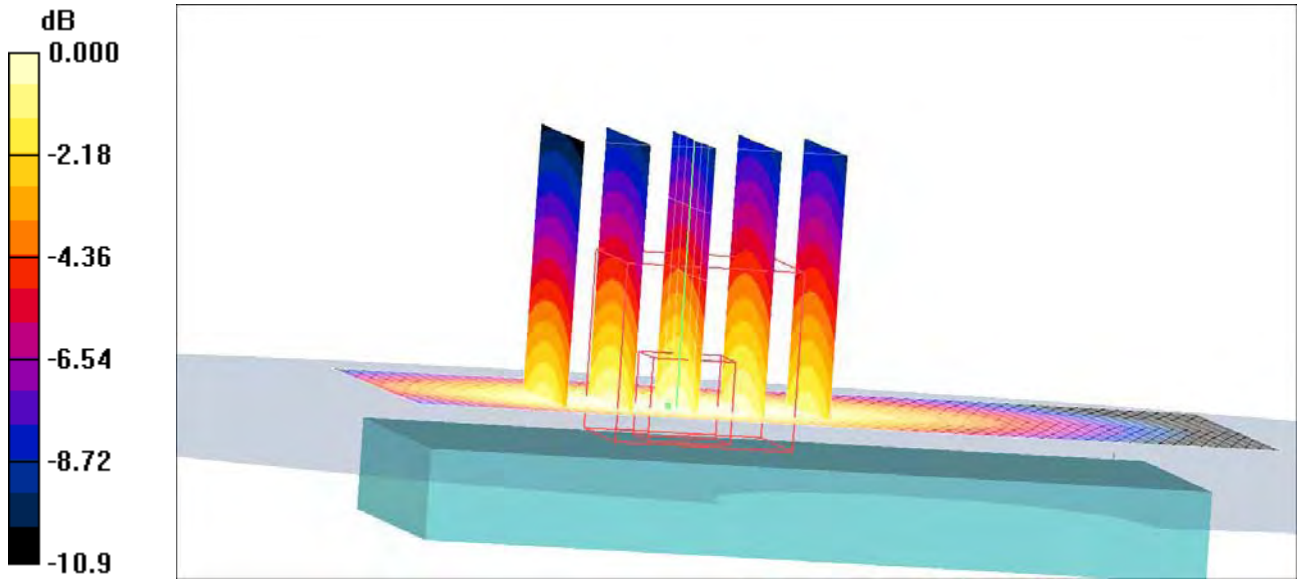
Body-Flat15mm-Bella-AT&T-UMTS5-HSDPA-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used: f = 826.4 MHz; σ = 0.98 mho/m; ε_r = 55; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.425 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 20.1 V/m; Power Drift = -0.102 dB
  Peak SAR (extrapolated) = 0.531 W/kg
  SAR(1 g) = 0.397 mW/g; SAR(10 g) = 0.278 mW/g
  Maximum value of SAR (measured) = 0.427 mW/g



0 dB = 0.427mW/g

Date/Time: 3/13/2008 9:05:32 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

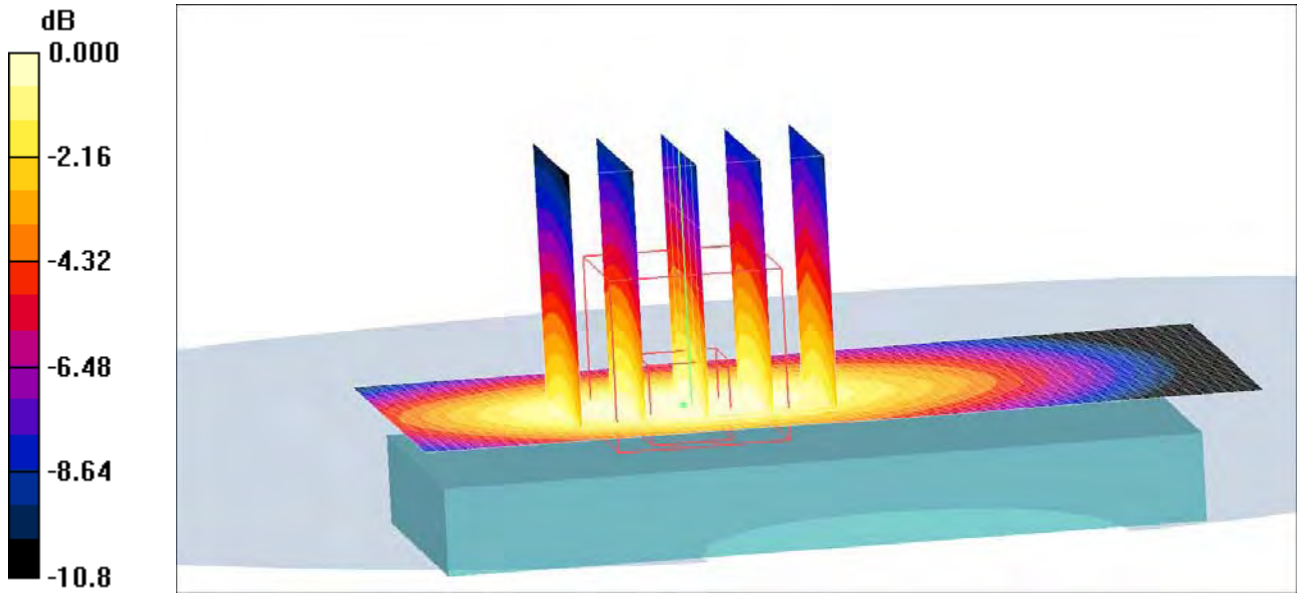
Body-Flat15mm-Bella-AT&T-UMTS5-HSDPA-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.99 mho/m; ε_r = 54.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 2/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.544 mW/g
  Body 2/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 22.7 V/m; Power Drift = 0.015 dB
  Peak SAR (extrapolated) = 0.677 W/kg
  SAR(1 g) = 0.512 mW/g; SAR(10 g) = 0.364 mW/g
  Maximum value of SAR (measured) = 0.545 mW/g



0 dB = 0.545mW/g

Date/Time: 3/13/2008 10:19:00 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

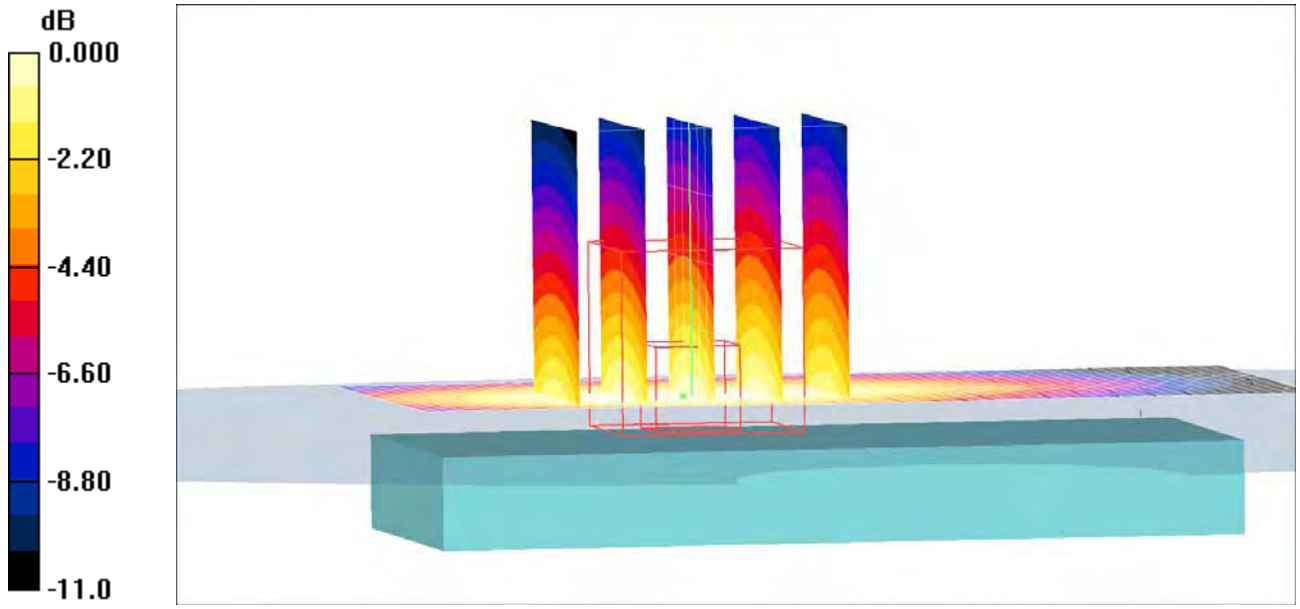
Body-Flat15mm-Bella-AT&T-UMTS5-PHF-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: WCDMA Band5; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 836.6 MHz; σ = 0.99 mho/m; ε_r = 54.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.517 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 21.8 V/m; Power Drift = -0.002 dB
  Peak SAR (extrapolated) = 0.652 W/kg
  SAR(1 g) = 0.488 mW/g; SAR(10 g) = 0.342 mW/g
  Maximum value of SAR (measured) = 0.520 mW/g



0 dB = 0.520mW/g

Date/Time: 3/10/2008 2:13:32 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

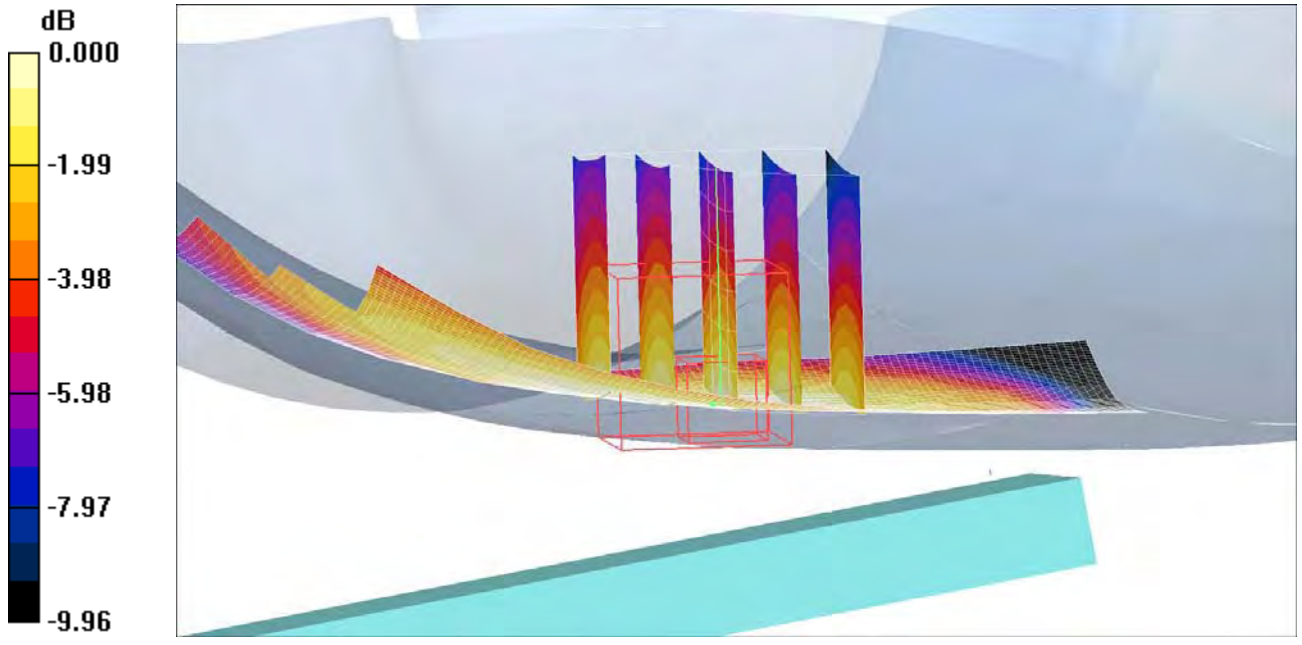
Bella-AT&T-LeftHandSide-GSM850-Tilt-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 836.6 MHz; σ = 0.87 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Tilt position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.335 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 14.7 V/m; Power Drift = -0.194 dB
  Peak SAR (extrapolated) = 0.389 W/kg
  SAR(1 g) = 0.313 mW/g; SAR(10 g) = 0.231 mW/g
  Maximum value of SAR (measured) = 0.334 mW/g



0 dB = 0.334mW/g

Date/Time: 3/10/2008 1:55:20 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

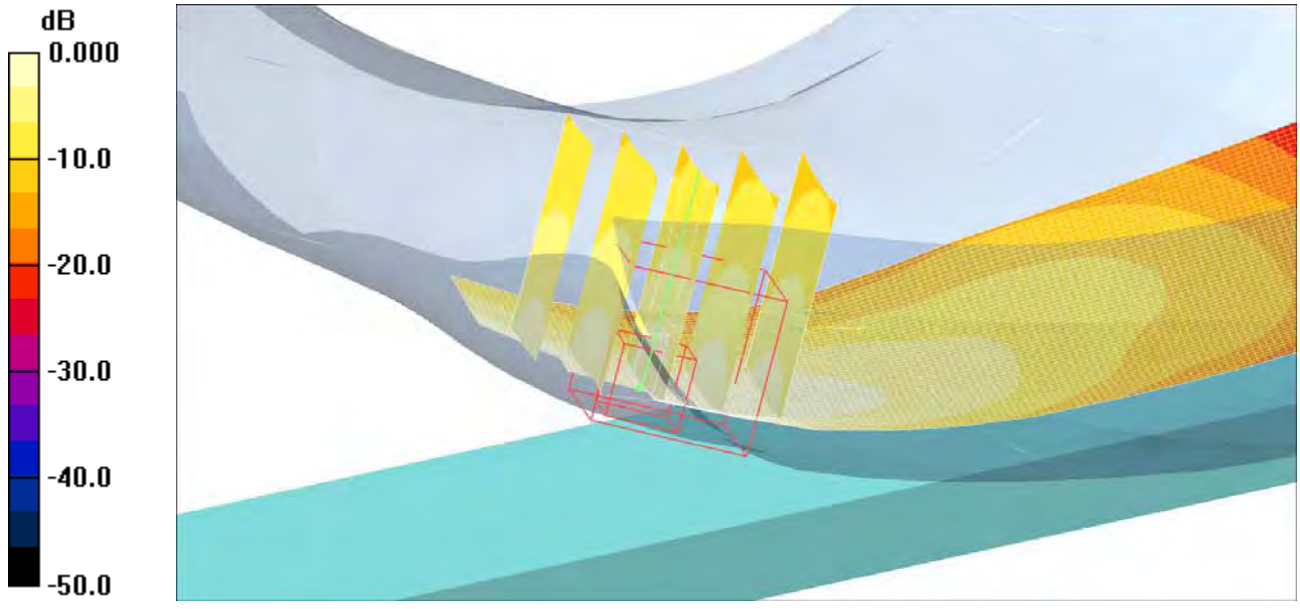
Bella-AT&T-LeftHandSide-GSM850-Touch-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 848.8 MHz; σ = 0.88 mho/m; ε_r = 40.7; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - High/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.39 mW/g
  Touch - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 10.4 V/m; Power Drift = 0.083 dB
  Peak SAR (extrapolated) = 1.90 W/kg
  SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.773 mW/g
  Maximum value of SAR (measured) = 1.38 mW/g



0 dB = 1.38mW/g

Date/Time: 3/10/2008 1:39:28 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

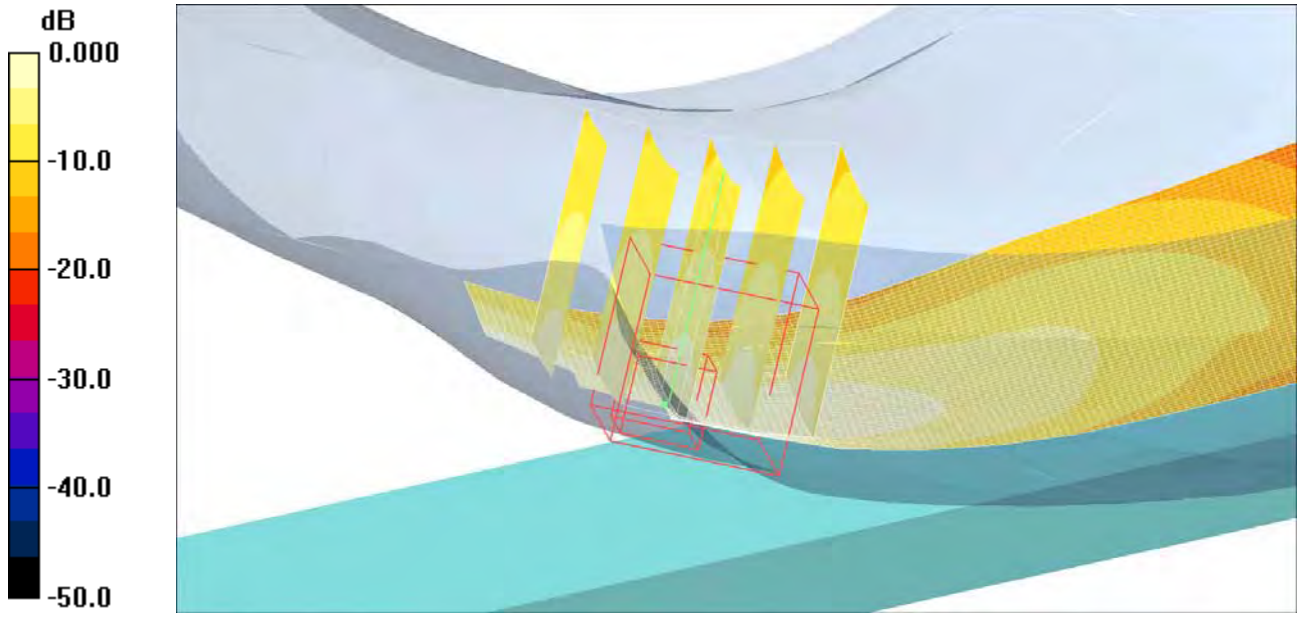
Bella-AT&T-LeftHandSide-GSM850-Touch-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 824.2 MHz; σ = 0.86 mho/m; ε_r = 41; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - Low/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.977 mW/g
  Touch - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 9.36 V/m; Power Drift = 0.036 dB
  Peak SAR (extrapolated) = 1.35 W/kg
  SAR(1 g) = 0.899 mW/g; SAR(10 g) = 0.557 mW/g
  Maximum value of SAR (measured) = 0.985 mW/g



0 dB = 0.985mW/g

Date/Time: 3/10/2008 1:23:57 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

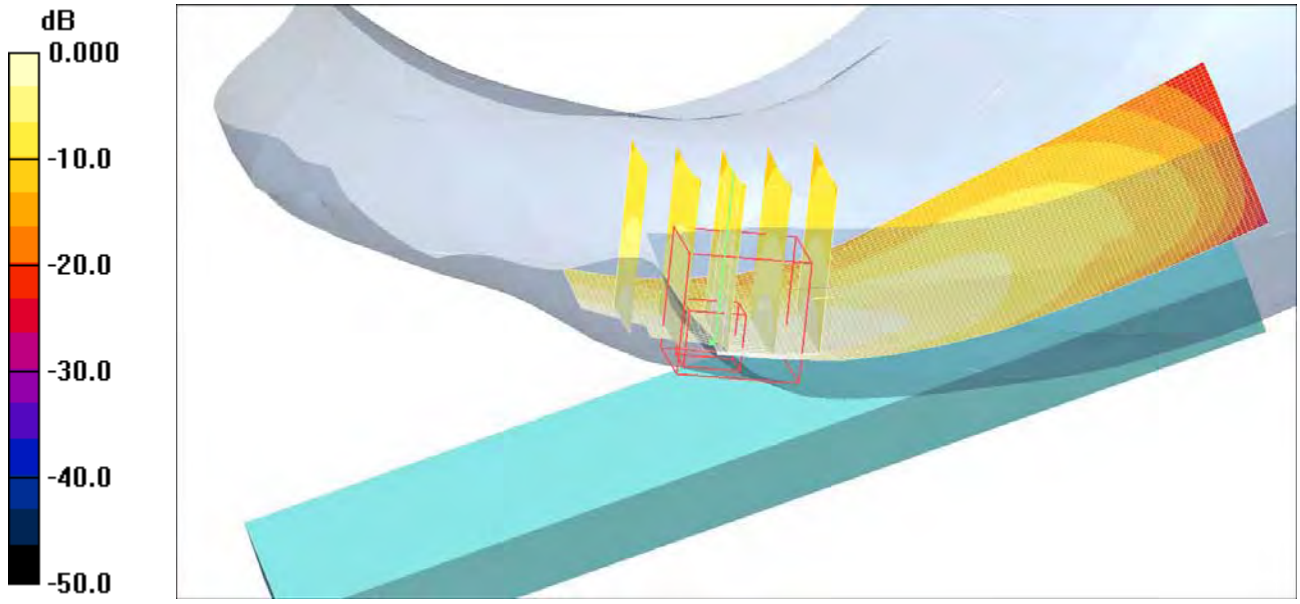
Bella-AT&T-LeftHandSide-GSM850-Touch-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 836.6 MHz; σ = 0.87 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.18 mW/g
  Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 10.5 V/m; Power Drift = -0.033 dB
  Peak SAR (extrapolated) = 1.63 W/kg
  SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.665 mW/g
  Maximum value of SAR (measured) = 1.19 mW/g



0 dB = 1.19mW/g

Date/Time: 3/10/2008 3:55:15 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

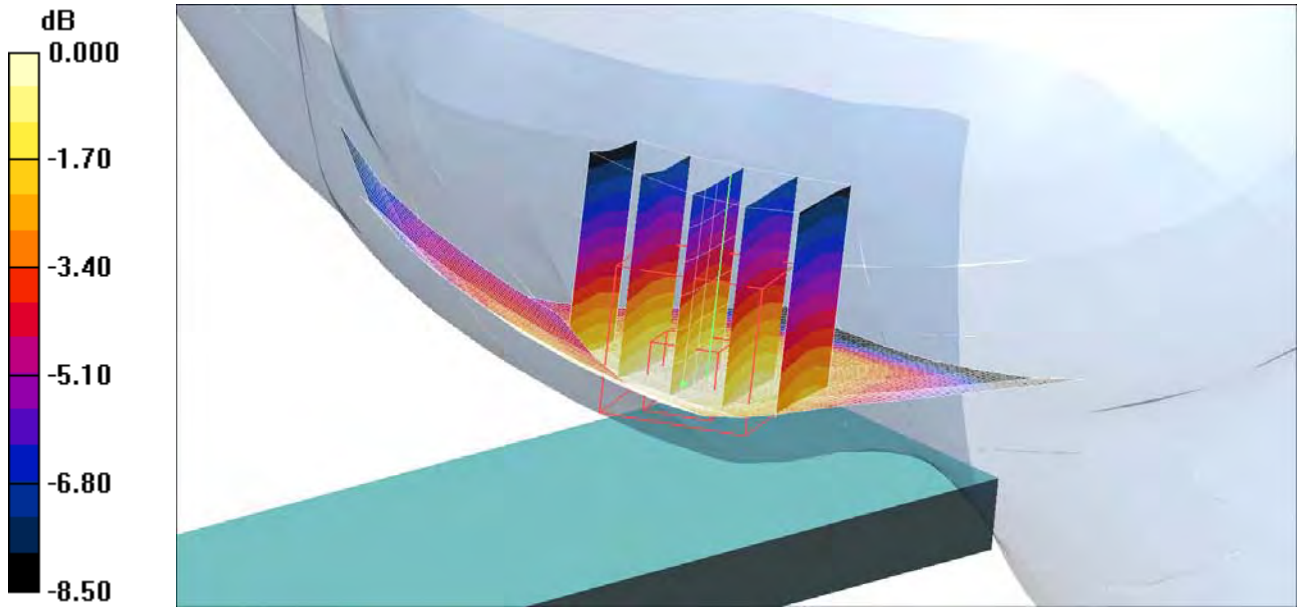
Bella-AT&T-RightHandSide-GSM850-Tilt-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 836.6 MHz; σ = 0.87 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Tilt position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 0.357 mW/g
  Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 15.5 V/m; Power Drift = 0.013 dB
  Peak SAR (extrapolated) = 0.406 W/kg
  SAR(1 g) = 0.336 mW/g; SAR(10 g) = 0.246 mW/g
  Maximum value of SAR (measured) = 0.356 mW/g



0 dB = 0.356mW/g

Date/Time: 3/10/2008 3:36:05 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

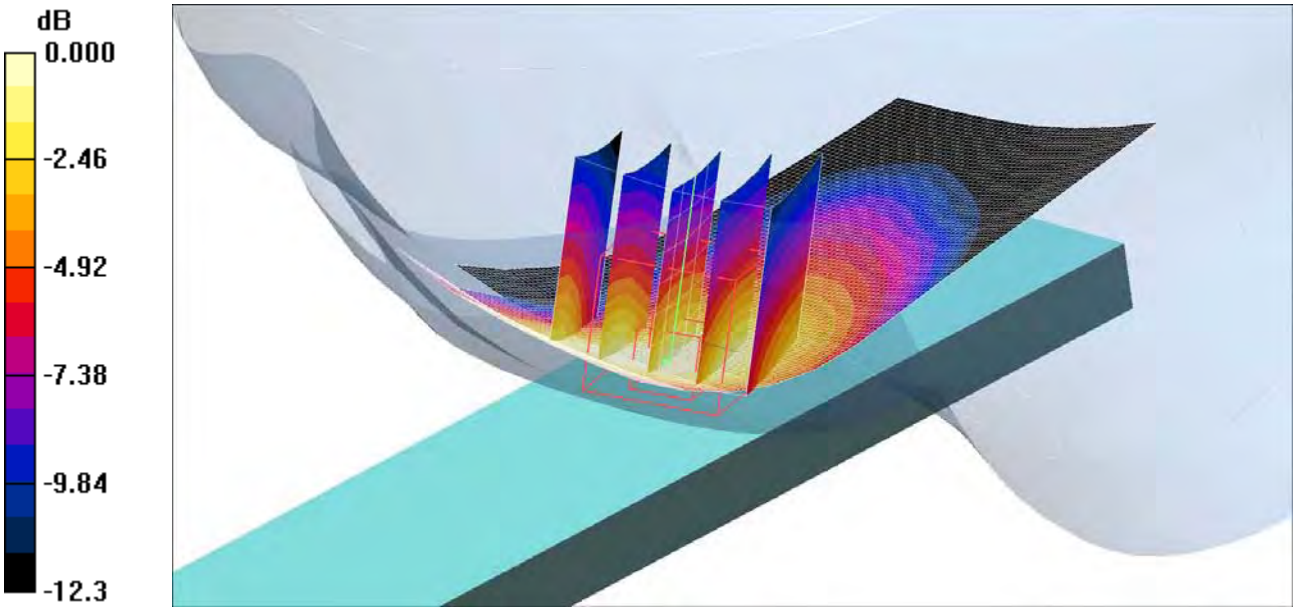
Bella-AT&T-RightHandSide-GSM850-Touch-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 848.8 MHz; σ = 0.88 mho/m; ε_r = 40.7; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - High/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.54 mW/g
  Touch - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 11.6 V/m; Power Drift = -0.191 dB
  Peak SAR (extrapolated) = 2.12 W/kg
  SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.849 mW/g
  Maximum value of SAR (measured) = 1.53 mW/g



0 dB = 1.53mW/g

Date/Time: 3/10/2008 3:19:57 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

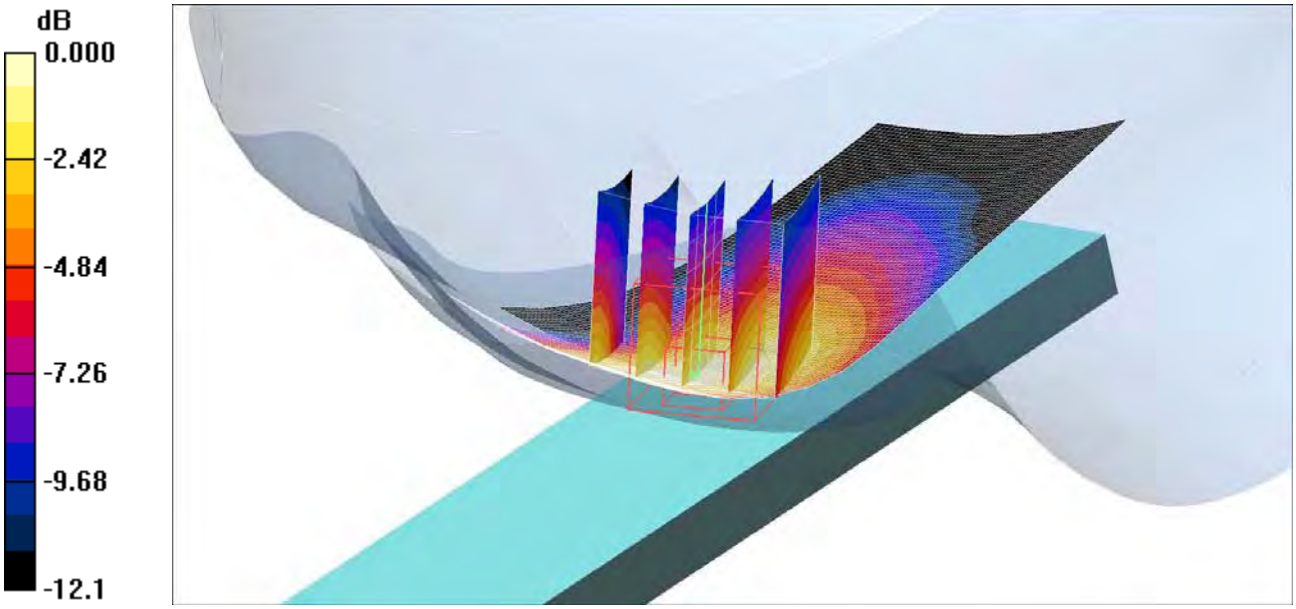
Bella-AT&T-RightHandSide-GSM850-Touch-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 824.2 MHz; σ = 0.86 mho/m; ε_r = 41; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch - Low/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.04 mW/g
  Touch - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 10.5 V/m; Power Drift = -0.019 dB
  Peak SAR (extrapolated) = 1.47 W/kg
  SAR(1 g) = 0.957 mW/g; SAR(10 g) = 0.592 mW/g
  Maximum value of SAR (measured) = 1.06 mW/g



0 dB = 1.06mW/g

Date/Time: 3/10/2008 3:04:17 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

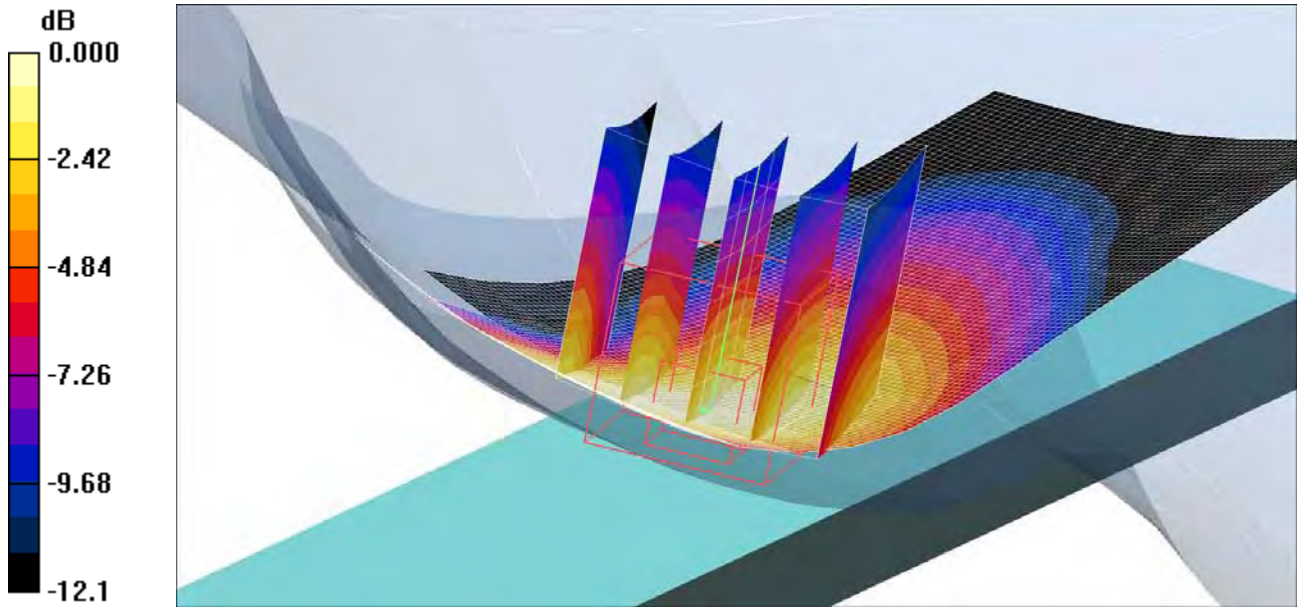
Bella-AT&T-RightHandSide-GSM850-Touch-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 836.6 MHz; σ = 0.87 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Touch position - Middle/Area Scan (61x121x1): Measurement grid: dx=10mm, dy=10mm
  Maximum value of SAR (interpolated) = 1.30 mW/g
  Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 11.5 V/m; Power Drift = -0.047 dB
  Peak SAR (extrapolated) = 1.85 W/kg
  SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.741 mW/g
  Maximum value of SAR (measured) = 1.32 mW/g



0 dB = 1.32mW/g

Date/Time: 3/11/2008 2:16:40 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

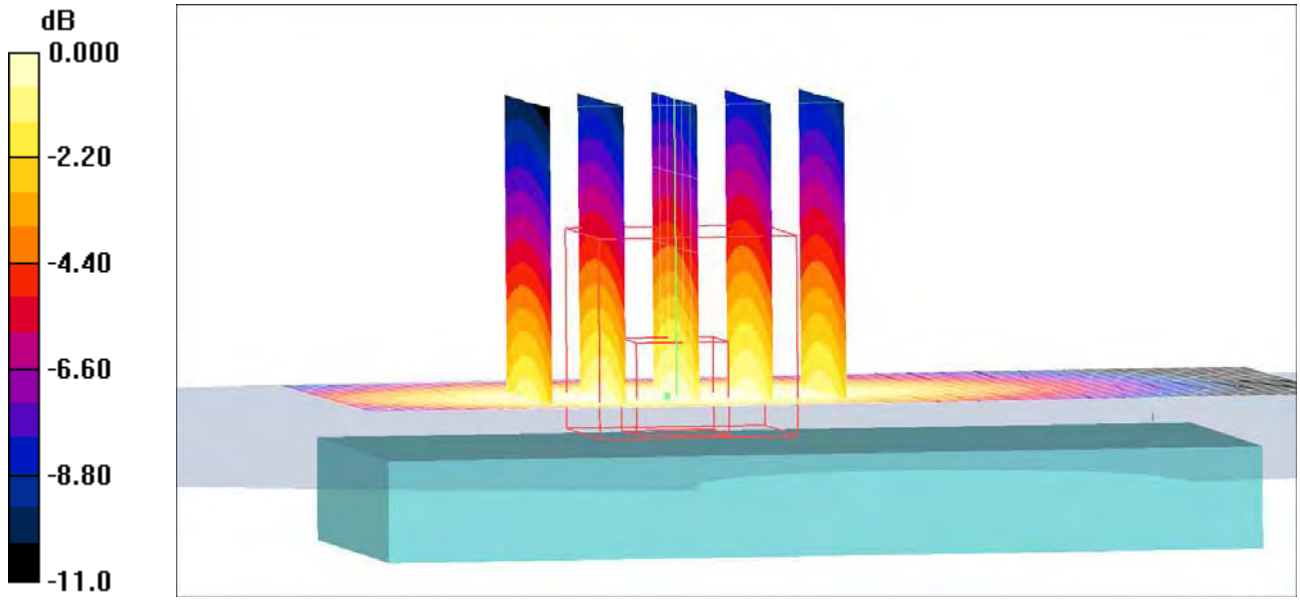
Body-Flat15mm-Bella-AT&T-850Bluetooth-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 848.8 MHz; σ = 1 mho/m; ε_r = 55.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 3/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.713 mW/g
  Body 3/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 25.8 V/m; Power Drift = -0.034 dB
  Peak SAR (extrapolated) = 0.893 W/kg
  SAR(1 g) = 0.670 mW/g; SAR(10 g) = 0.468 mW/g
  Maximum value of SAR (measured) = 0.715 mW/g



0 dB = 0.715mW/g

Date/Time: 3/11/2008 1:53:12 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

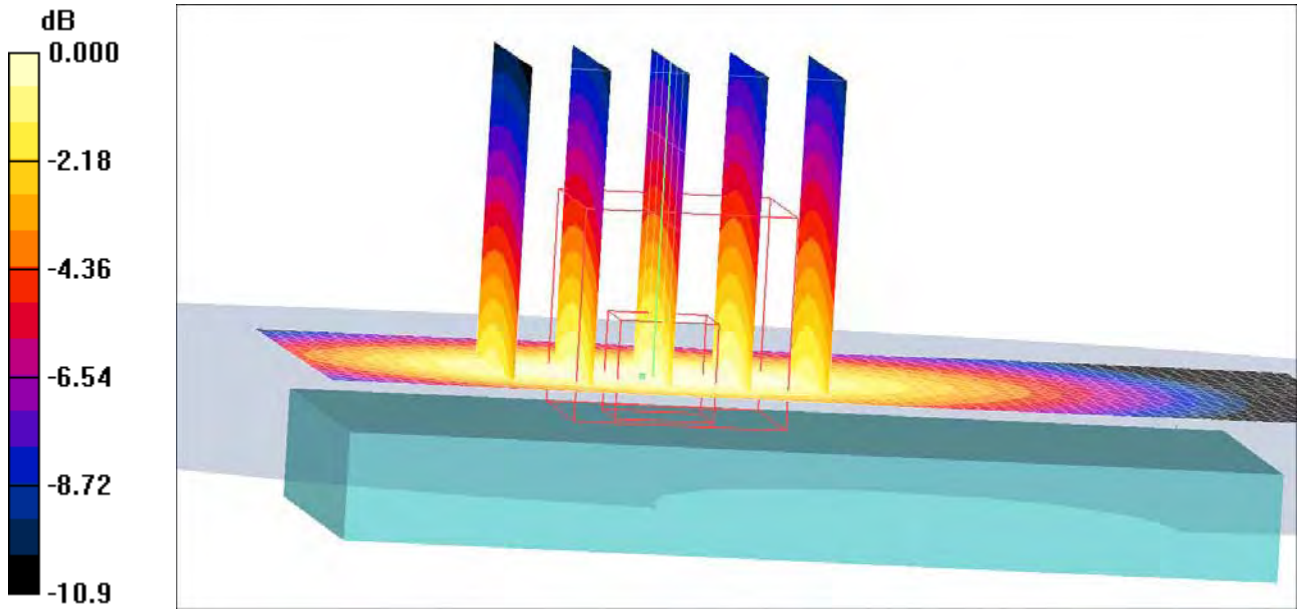
Body-Flat15mm-Bella-AT&T-850Bluetooth-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 824.2 MHz; σ = 0.97 mho/m; ε_r = 55.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.439 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 20.4 V/m; Power Drift = -0.018 dB
  Peak SAR (extrapolated) = 0.552 W/kg
  SAR(1 g) = 0.416 mW/g; SAR(10 g) = 0.291 mW/g
  Maximum value of SAR (measured) = 0.444 mW/g



0 dB = 0.444mW/g

Date/Time: 3/11/2008 2:05:29 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

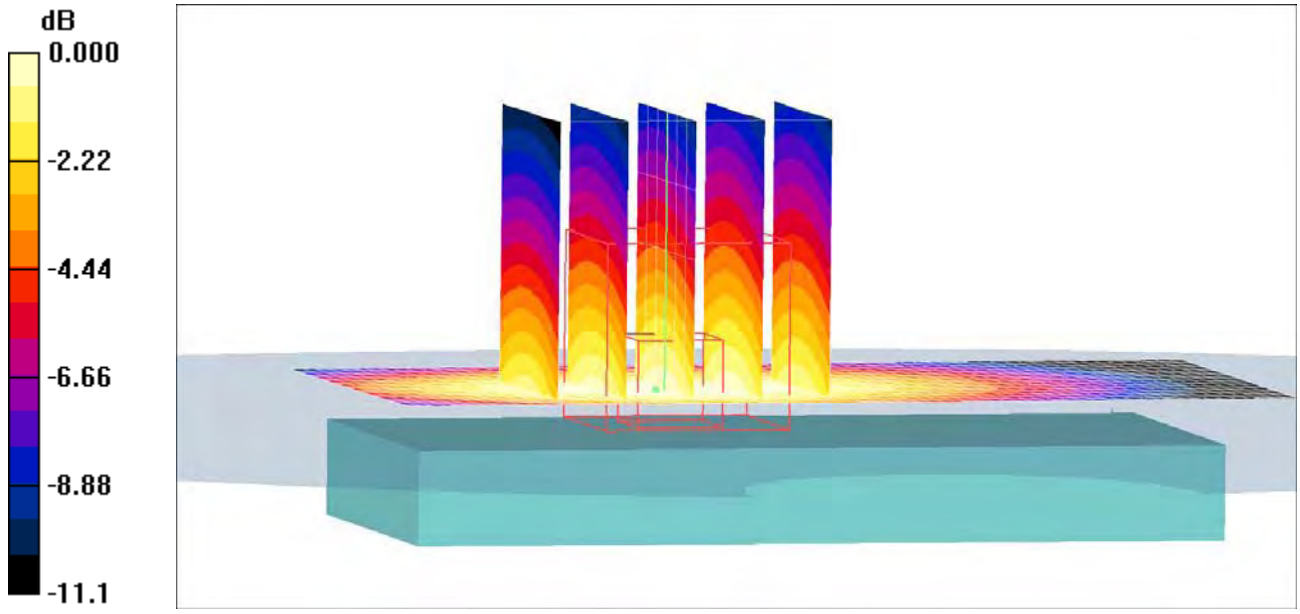
Body-Flat15mm-Bella-AT&T-850Bluetooth-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 836.6 MHz; σ = 0.99 mho/m; ε_r = 55.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 2/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.549 mW/g
  Body 2/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 22.7 V/m; Power Drift = -0.019 dB
  Peak SAR (extrapolated) = 0.707 W/kg
  SAR(1 g) = 0.524 mW/g; SAR(10 g) = 0.365 mW/g
  Maximum value of SAR (measured) = 0.560 mW/g



0 dB = 0.560mW/g

Date/Time: 3/11/2008 12:56:45 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

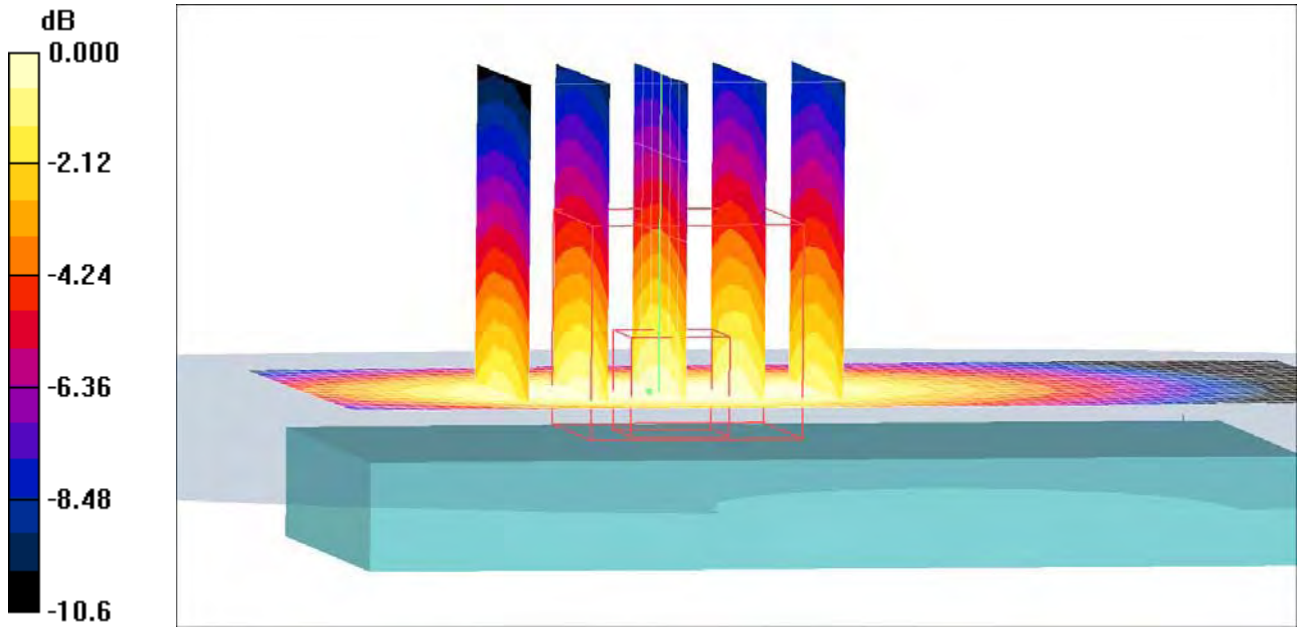
Body-Flat15mm-Bella-AT&T-850EDGE-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 836.6 MHz; σ = 0.99 mho/m; ε_r = 55.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.522 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 22.0 V/m; Power Drift = -0.127 dB
  Peak SAR (extrapolated) = 0.625 W/kg
  SAR(1 g) = 0.479 mW/g; SAR(10 g) = 0.341 mW/g
  Maximum value of SAR (measured) = 0.508 mW/g



0 dB = 0.508mW/g

Date/Time: 3/11/2008 1:31:54 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

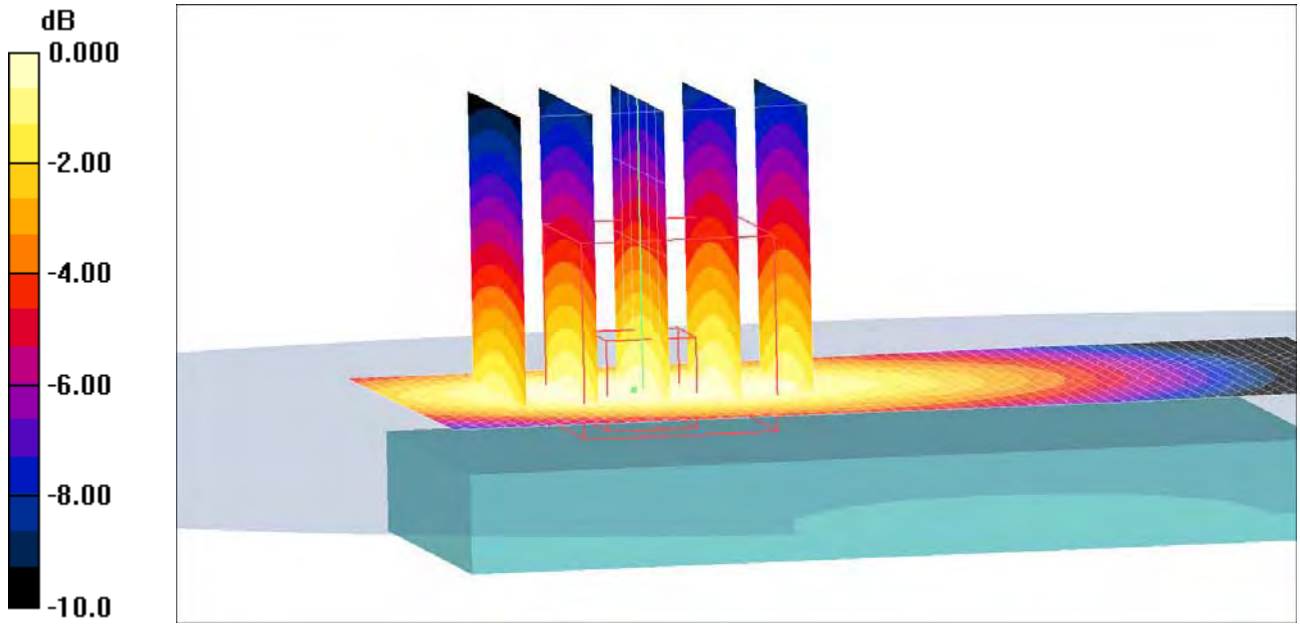
Body-Flat15mm-Bella-AT&T-850-Front-to-Phantom-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 836.6 MHz; σ = 0.99 mho/m; ε_r = 55.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.369 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 18.3 V/m; Power Drift = 0.003 dB
  Peak SAR (extrapolated) = 0.453 W/kg
  SAR(1 g) = 0.350 mW/g; SAR(10 g) = 0.253 mW/g
  Maximum value of SAR (measured) = 0.375 mW/g



0 dB = 0.375mW/g

Date/Time: 3/11/2008 11:49:30 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

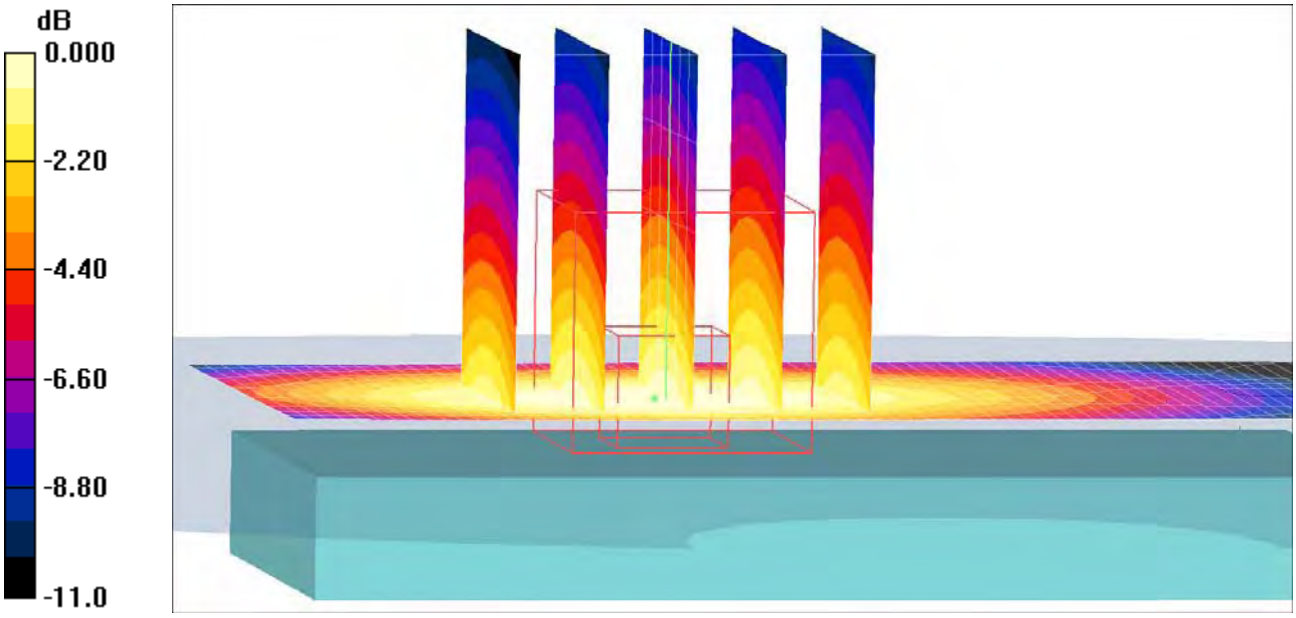
Body-Flat15mm-Bella-AT&T-850GPRS-High

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 848.8 MHz; σ = 1 mho/m; ε_r = 55.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 3/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.994 mW/g
  Body 3/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 30.5 V/m; Power Drift = -0.068 dB
  Peak SAR (extrapolated) = 1.26 W/kg
  SAR(1 g) = 0.942 mW/g; SAR(10 g) = 0.658 mW/g
  Maximum value of SAR (measured) = 1.01 mW/g



0 dB = 1.01mW/g

Date/Time: 3/11/2008 11:13:02 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

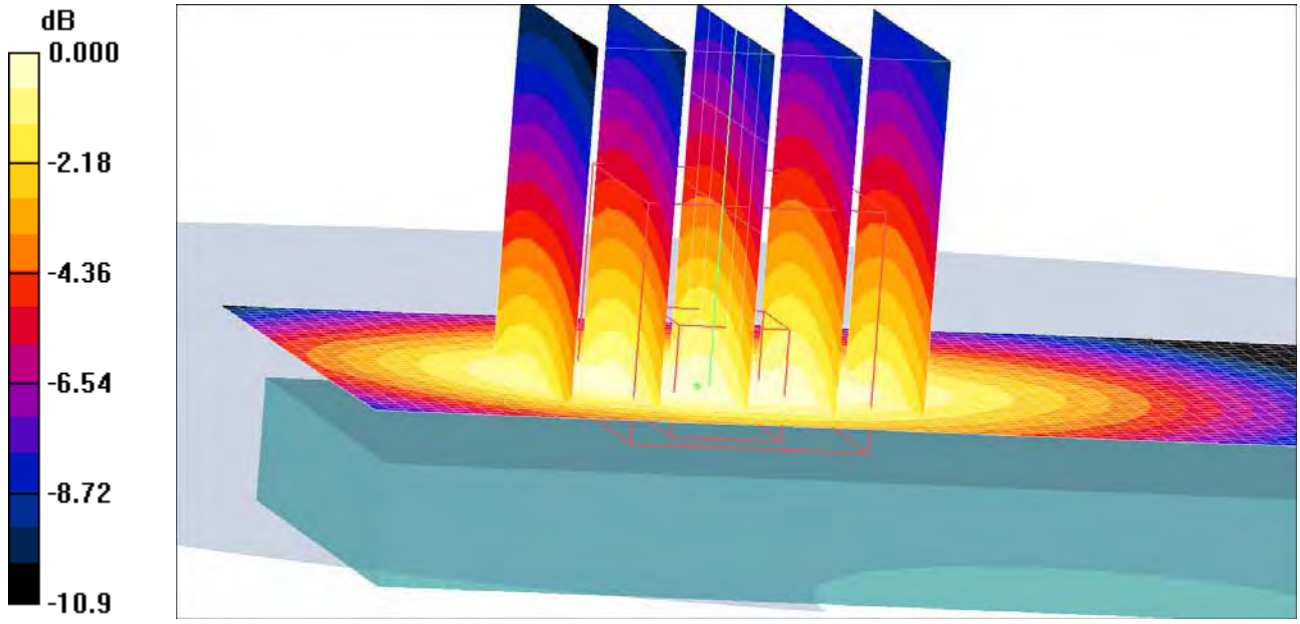
Body-Flat15mm-Bella-AT&T-850GPRS-Low

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 824.2 MHz; σ = 0.97 mho/m; ε_r = 55.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.739 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 26.5 V/m; Power Drift = -0.059 dB
  Peak SAR (extrapolated) = 0.912 W/kg
  SAR(1 g) = 0.690 mW/g; SAR(10 g) = 0.485 mW/g
  Maximum value of SAR (measured) = 0.741 mW/g



0 dB = 0.741mW/g

Date/Time: 3/11/2008 11:35:38 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

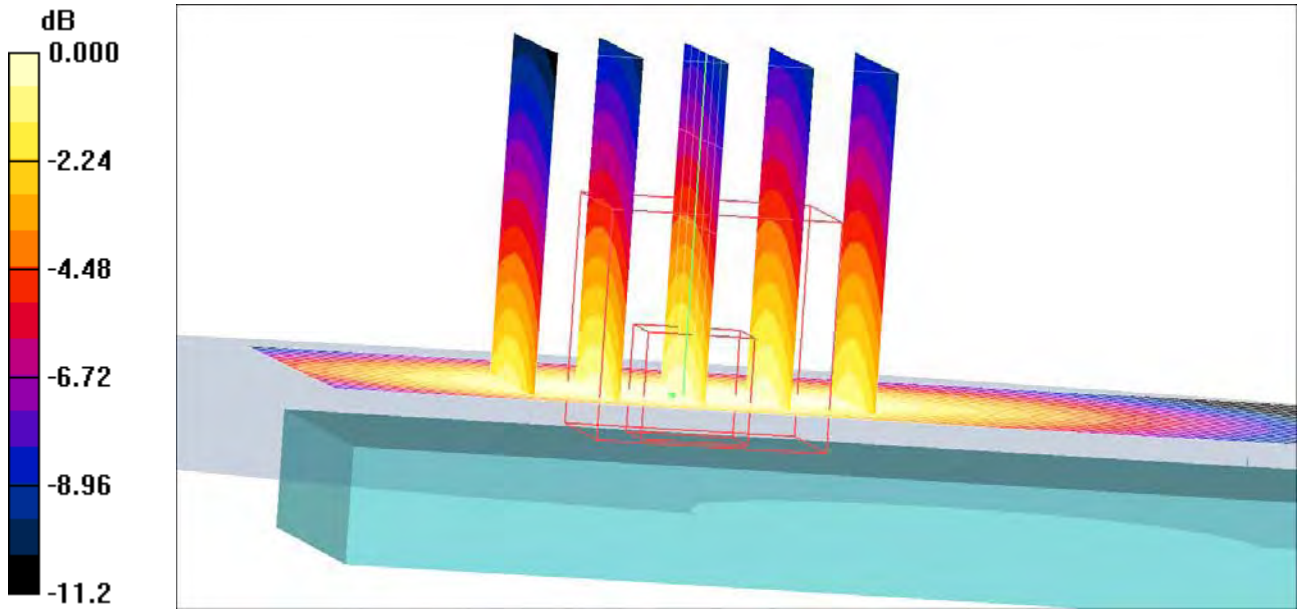
Body-Flat15mm-Bella-AT&T-850GPRS-Middle

DUT: Bella; Type: DUT; Serial: #10868

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 836.6 MHz; σ = 0.99 mho/m; ε_r = 55.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body 2/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 1.03 mW/g
  Body 2/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 30.7 V/m; Power Drift = -0.014 dB
  Peak SAR (extrapolated) = 1.29 W/kg
  SAR(1 g) = 0.956 mW/g; SAR(10 g) = 0.669 mW/g
  Maximum value of SAR (measured) = 1.02 mW/g



0 dB = 1.02mW/g

Date/Time: 3/11/2008 2:54:34 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

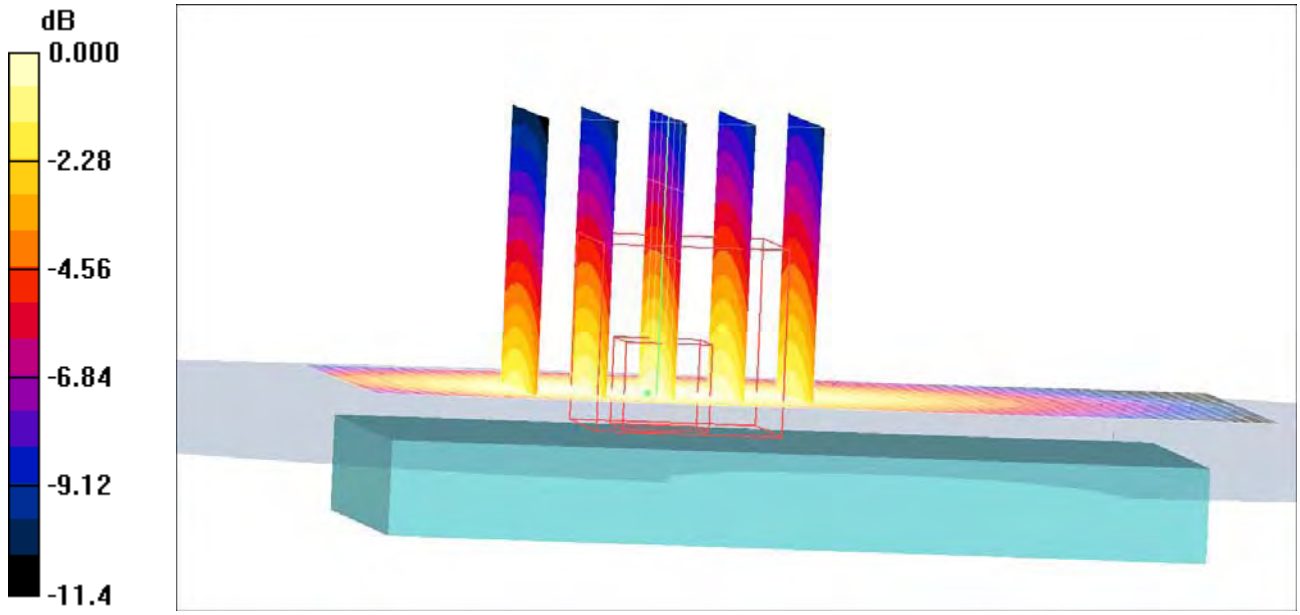
Body-Flat15mm-Bella-AT&T-850PHF-High

DUT: Bella; Type: DUT; Serial: 10868

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium parameters used: f = 848.8 MHz; σ = 1 mho/m; ε_r = 55.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  Body/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 0.584 mW/g
  Body/Zoom Scan (7x5x5)/Cube 0: Measurement grid: dx=5mm, dy=8mm, dz=8mm
  Reference Value = 23.4 V/m; Power Drift = 0.022 dB
  Peak SAR (extrapolated) = 0.761 W/kg
  SAR(1 g) = 0.562 mW/g; SAR(10 g) = 0.391 mW/g
  Maximum value of SAR (measured) = 0.599 mW/g



0 dB = 0.599mW/g

Date/Time: 3/13/2008 8:08:19 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

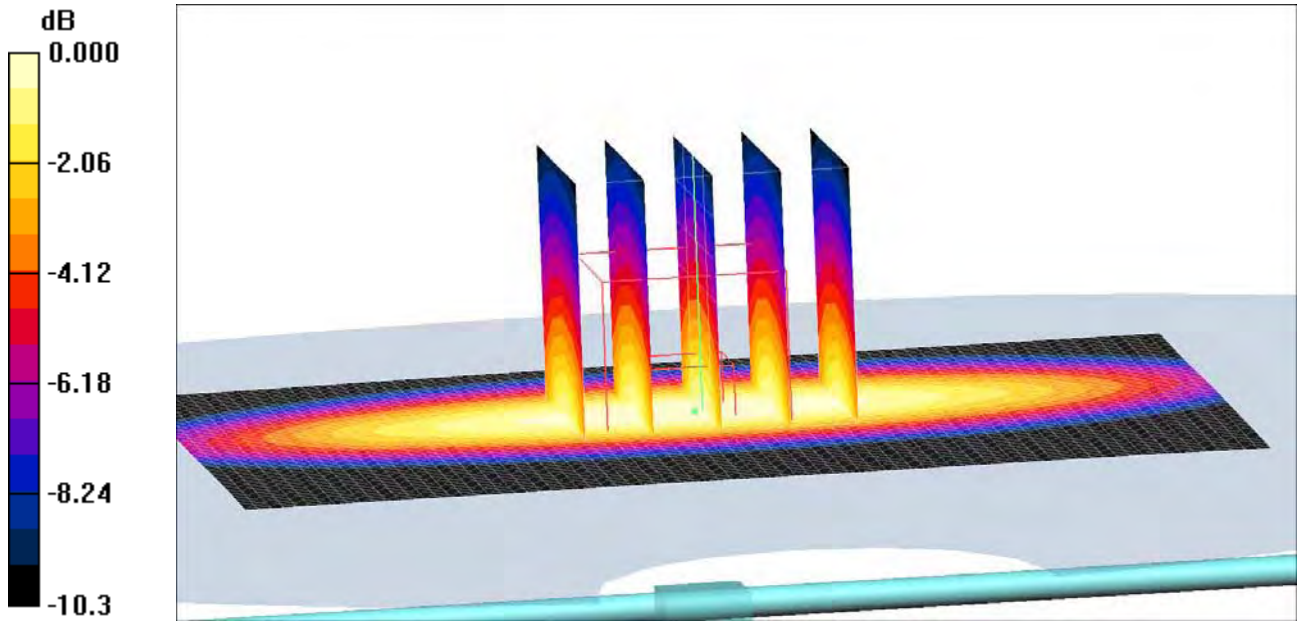
SystemPerformanceCheck-Body-D850-13-03-08

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; σ = 0.99 mho/m; ε_r = 54.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 2.54 mW/g
  d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 53.0 V/m; Power Drift = 0.059 dB
  Peak SAR (extrapolated) = 3.24 W/kg
  SAR(1 g) = 2.37 mW/g; SAR(10 g) = 1.58 mW/g
  Maximum value of SAR (measured) = 2.58 mW/g



0 dB = 2.58mW/g

Date/Time: 3/10/2008 12:25:54 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

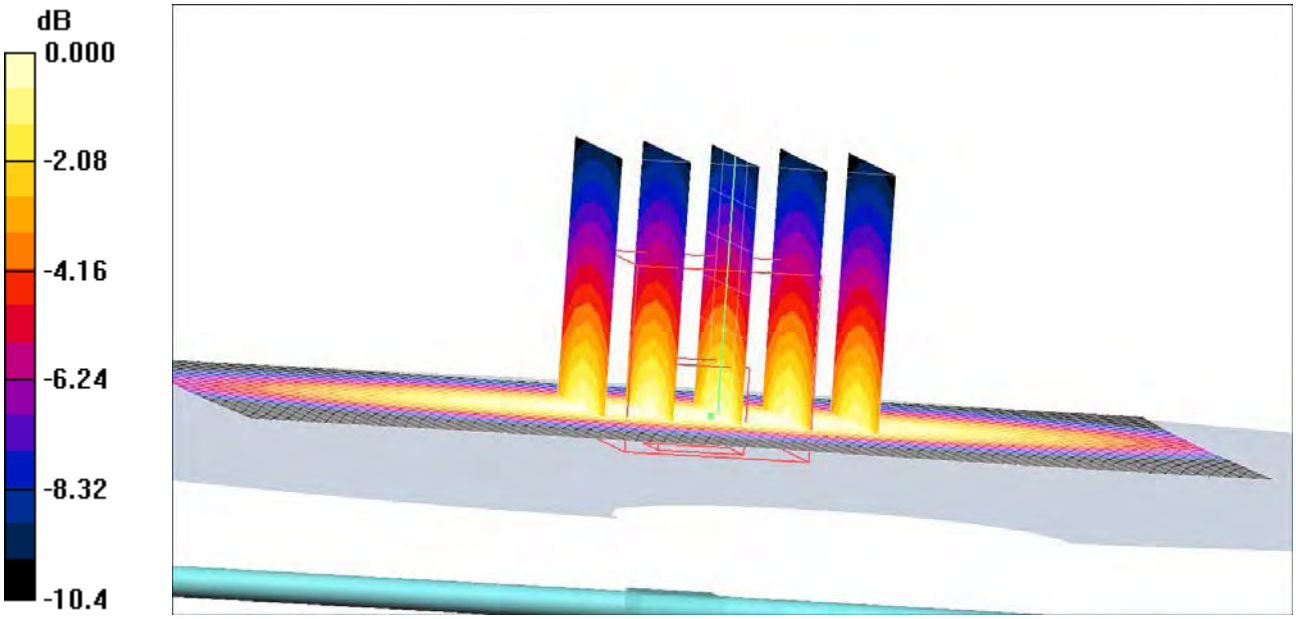
SystemPerformanceCheck-D850-10-03-08

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; σ = 0.87 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 2.43 mW/g
  d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 55.2 V/m; Power Drift = 0.039 dB
  Peak SAR (extrapolated) = 3.19 W/kg
  SAR(1 g) = 2.29 mW/g; SAR(10 g) = 1.52 mW/g
  Maximum value of SAR (measured) = 2.47 mW/g



0 dB = 2.47mW/g

Date/Time: 3/12/2008 11:05:35 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

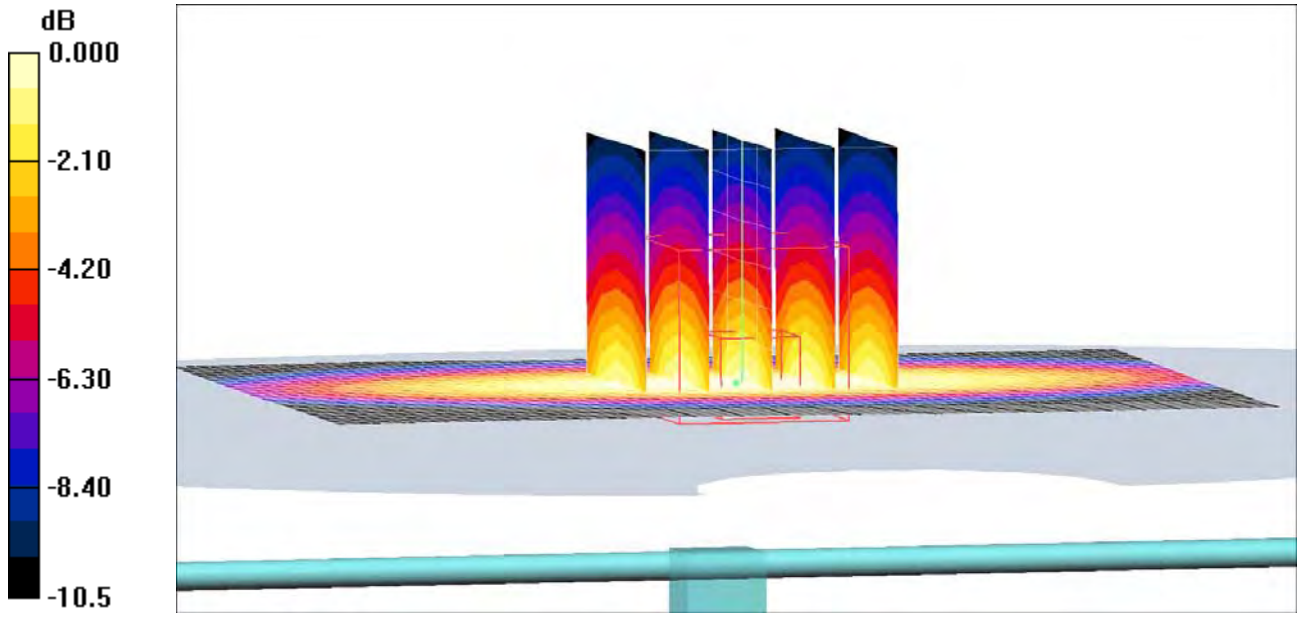
SystemPerformanceCheck-D850-12-03-08

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; σ = 0.87 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.69, 6.69, 6.69); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 2.47 mW/g
  d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 56.7 V/m; Power Drift = -0.130 dB
  Peak SAR (extrapolated) = 3.24 W/kg
  SAR(1 g) = 2.32 mW/g; SAR(10 g) = 1.53 mW/g
  Maximum value of SAR (measured) = 2.54 mW/g



0 dB = 2.54mW/g

Date/Time: 3/14/2008 7:56:56 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

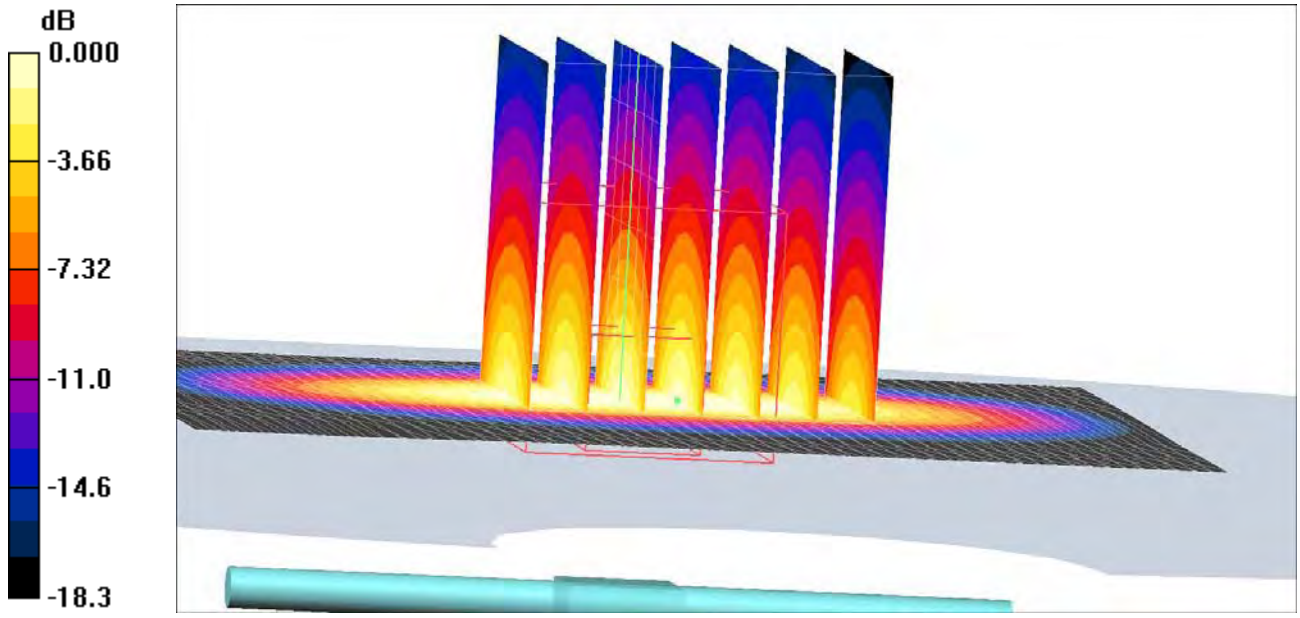
Validation-D1900-14-03-08

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; σ = 1.47 mho/m; ε_r = 38.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- 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 (61x61x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 11.4 mW/g
  d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
  Reference Value = 89.0 V/m; Power Drift = 0.054 dB
  Peak SAR (extrapolated) = 16.2 W/kg
  SAR(1 g) = 9.32 mW/g; SAR(10 g) = 4.9 mW/g
  Maximum value of SAR (measured) = 10.6 mW/g



0 dB = 10.6mW/g

Date/Time: 3/17/2008 10:19:37 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

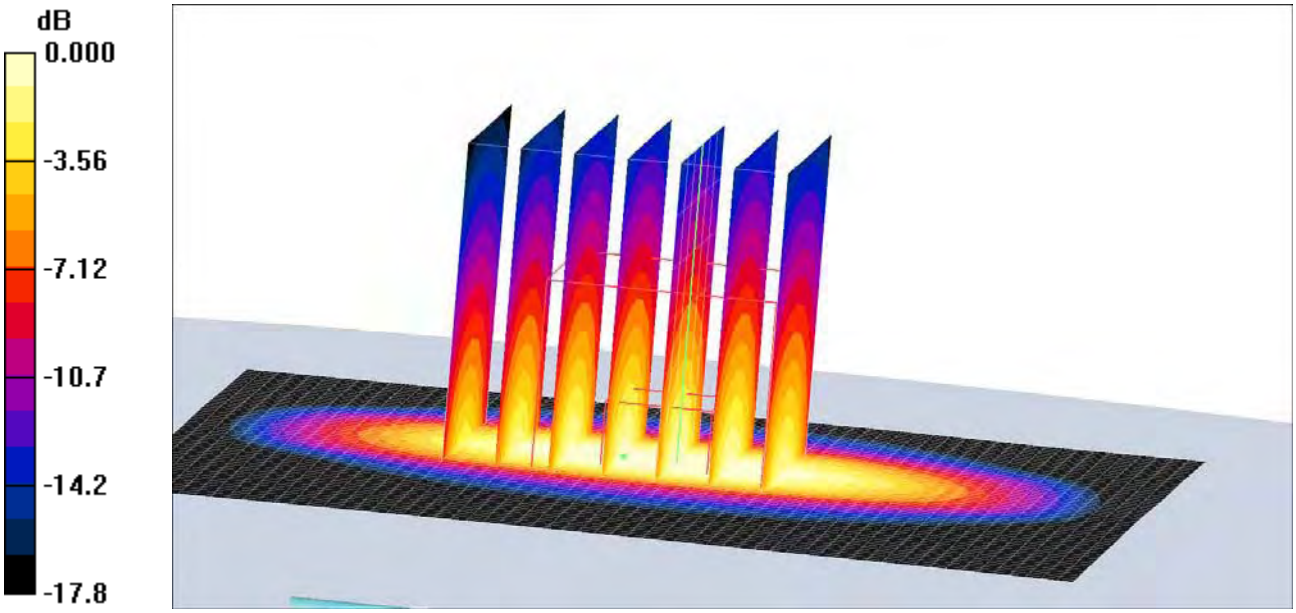
Validation-D1900-17-03-08-Body

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; σ = 1.57 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(4.79, 4.79, 4.79); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- 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 (61x61x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 12.1 mW/g
  d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
  Reference Value = 86.8 V/m; Power Drift = 0.029 dB
  Peak SAR (extrapolated) = 16.8 W/kg
  SAR(1 g) = 9.52 mW/g; SAR(10 g) = 4.99 mW/g
  Maximum value of SAR (measured) = 10.8 mW/g



0 dB = 10.8mW/g

Date/Time: 3/18/2008 10:30:42 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

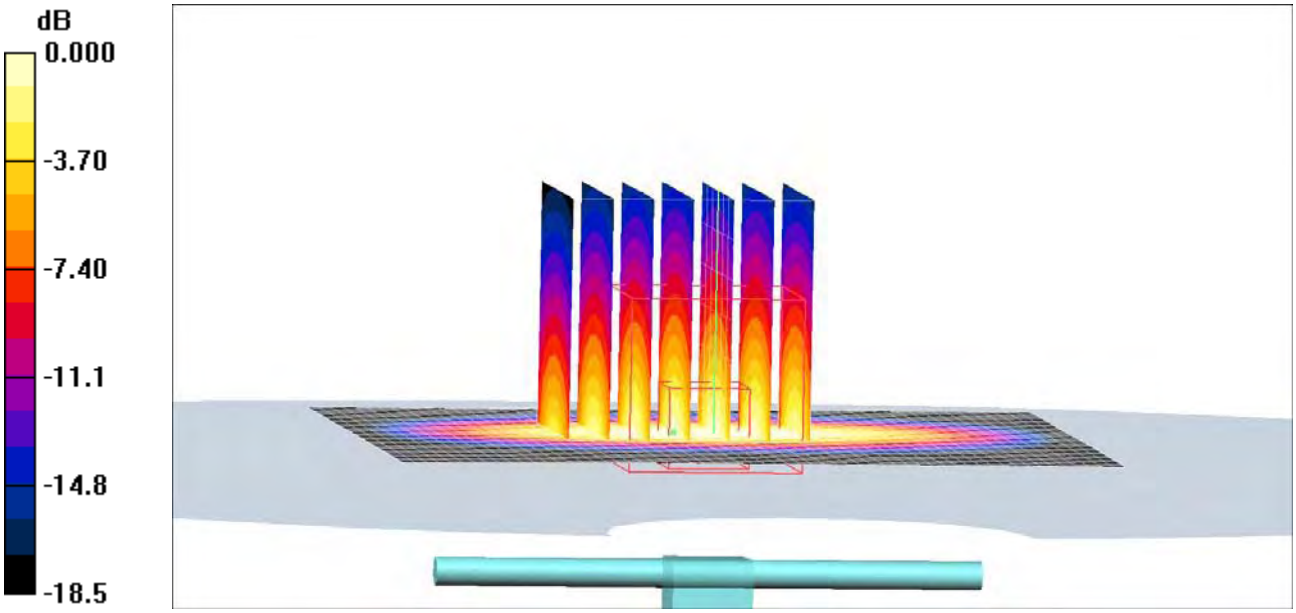
Validation-D1900-18-03-08

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; σ = 1.46 mho/m; ε_r = 38.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1611; ConvF(5.17, 5.17, 5.17); Calibrated: 12/17/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- 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 (61x61x1): Measurement grid: dx=15mm, dy=15mm
  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 = 91.1 V/m; Power Drift = -0.013 dB
  Peak SAR (extrapolated) = 16.5 W/kg
  SAR(1 g) = 9.41 mW/g; SAR(10 g) = 4.91 mW/g
  Maximum value of SAR (measured) = 10.7 mW/g



0 dB = 10.7mW/g

Date/Time: 3/11/2008 10:00:30 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

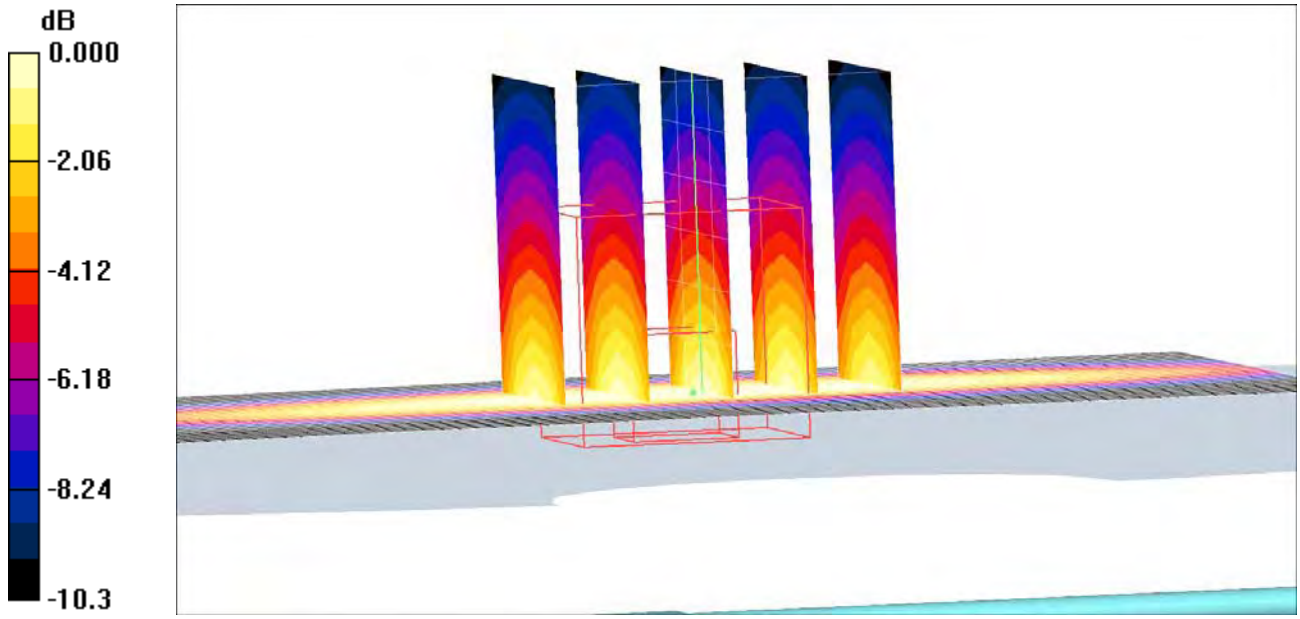
Validation-D850-Body-11-03-08

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; σ = 0.99 mho/m; ε_r = 55.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.39, 6.39, 6.39); Calibrated: 11/14/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 15/11/2007
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
  d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
  Maximum value of SAR (interpolated) = 2.63 mW/g
  d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
  Reference Value = 53.6 V/m; Power Drift = -0.009 dB
  Peak SAR (extrapolated) = 3.29 W/kg
  SAR(1 g) = 2.41 mW/g; SAR(10 g) = 1.6 mW/g
  Maximum value of SAR (measured) = 2.61 mW/g



0 dB = 2.61mW/g

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Accreditation No.: SCS 108

Client Ericsson UK

Certificate No: D1900V2-539_Dec06

CALIBRATION CERTIFICATE

Object: D1900V2 - SN: 539

Calibration procedure(s): QA CAL-05.v6
Calibration procedure for dipole validation kits

Calibration date: December 12, 2006

Condition of the calibrated item: In Tolerance

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	03-Oct-06 (METAS, No. 217-00608)	Oct-07
Power sensor HP 8481A	US37292783	03-Oct-06 (METAS, No. 217-00608)	Oct-07
Reference 20 dB Attenuator	SN: 5086 (20g)	10-Aug-06 (METAS, No 217-00591)	Aug-07
Reference 10 dB Attenuator	SN: 5047.2 (10r)	10-Aug-06 (METAS, No 217-00591)	Aug-07
Reference Probe ET3DV6	SN: 1507	19-Oct-06 (SPEAG, No. ET3-1507_Oct06)	Oct-07
Reference Probe ES3DV3	SN: 3025	19-Oct-06 (SPEAG, No. ES3-3025_Oct06)	Oct-07
DAE4	SN: 601	15-Dec-05 (SPEAG, No. DAE4-601_Dec05)	Dec-06

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (SPEAG, in house check Oct-05)	In house check: Oct-07
RF generator Agilent E4421B	MY41000675	11-May-05 (SPEAG, in house check Nov-05)	In house check: Nov-07
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (SPEAG, in house check Oct-06)	In house check: Oct-07

	Name	Function	Signature
Calibrated by:	Mike Meili	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: December 13, 2006

Calibration Laboratory of
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Accreditation No.: SCS 108

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
b) CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001
c) Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Supplement C (Edition 01-01) to Bulletin 65

Additional Documentation:

d) DASY4 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY4	V4.7
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Area Scan Resolution	dx, dy = 15 mm	
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	**Permittivity**	**Conductivity**
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.4 ± 6 %	1.40 mho/m ± 6 %
Head TSL temperature during test	(21.2 ± 0.2) °C	---	---

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	condition	
SAR measured	250 mW input power	9.18 mW / g
SAR normalized	normalized to 1W	36.7 mW / g
SAR for nominal Head TSL parameters [1]	normalized to 1W	**35.9 mW / g ± 17.0 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	4.85 mW / g
SAR normalized	normalized to 1W	19.4 mW / g
SAR for nominal Head TSL parameters [1]	normalized to 1W	**19.1 mW / g ± 16.5 % (k=2)**

[1] Correction to nominal TSL parameters according to d), chapter "SAR Sensitivities"

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.8 ± 6 %	1.54 mho/m ± 6 %
Body TSL temperature during test	(21.6 ± 0.2) °C	—	—

SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.49 mW / g
SAR normalized	normalized to 1W	38.0 mW / g
SAR for nominal Body TSL parameters [2]	normalized to 1W	**37.0 mW / g ± 17.0 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.05 mW / g
SAR normalized	normalized to 1W	20.2 mW / g
SAR for nominal Body TSL parameters [2]	normalized to 1W	**19.8 mW / g ± 16.5 % (k=2)**

[2] Correction to nominal TSL parameters according to d), chapter "SAR Sensitivities"

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	54.1 Ω + 0.9 jΩ
Return Loss	- 27.9 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	49.0 Ω + 2.7 jΩ
Return Loss	- 30.7 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.200 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	July 26, 2001

DASY4 Validation Report for Head TSL

Date/Time: 11.12.2006 17:13:38

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL U10 BB;
Medium parameters used: f = 1900 MHz; σ = 1.4 mho/m; ε_r = 38.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

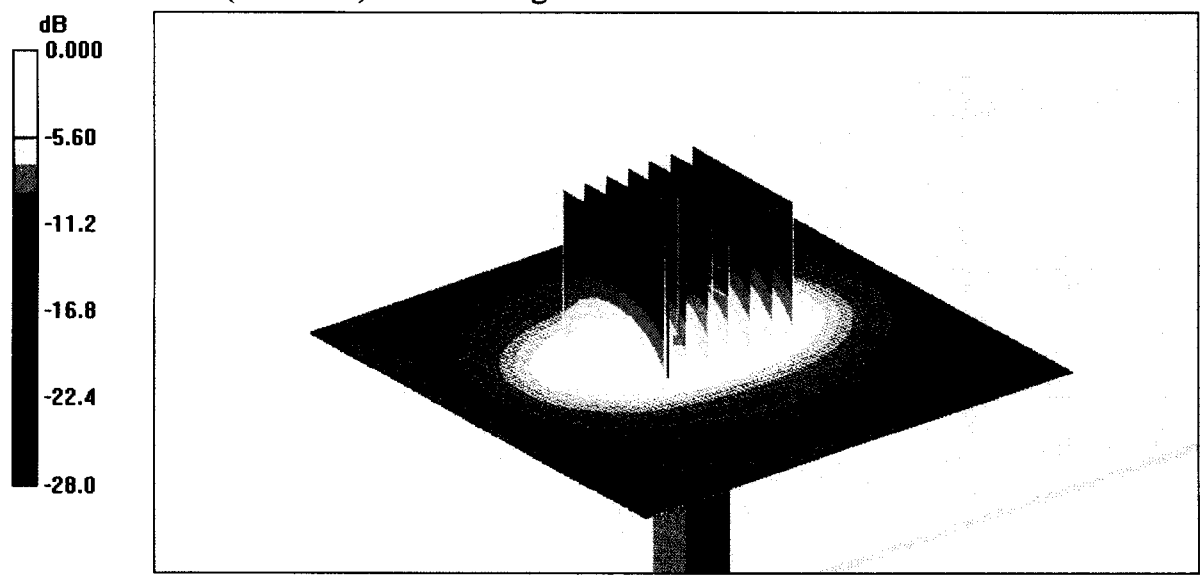
- Probe: ET3DV6 - SN1507 (HF); ConvF(4.97, 4.97, 4.97); Calibrated: 19.10.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 15.12.2005
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Pin = 250 mW; d = 10 mm/Area Scan (101x101x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 10.3 mW/g

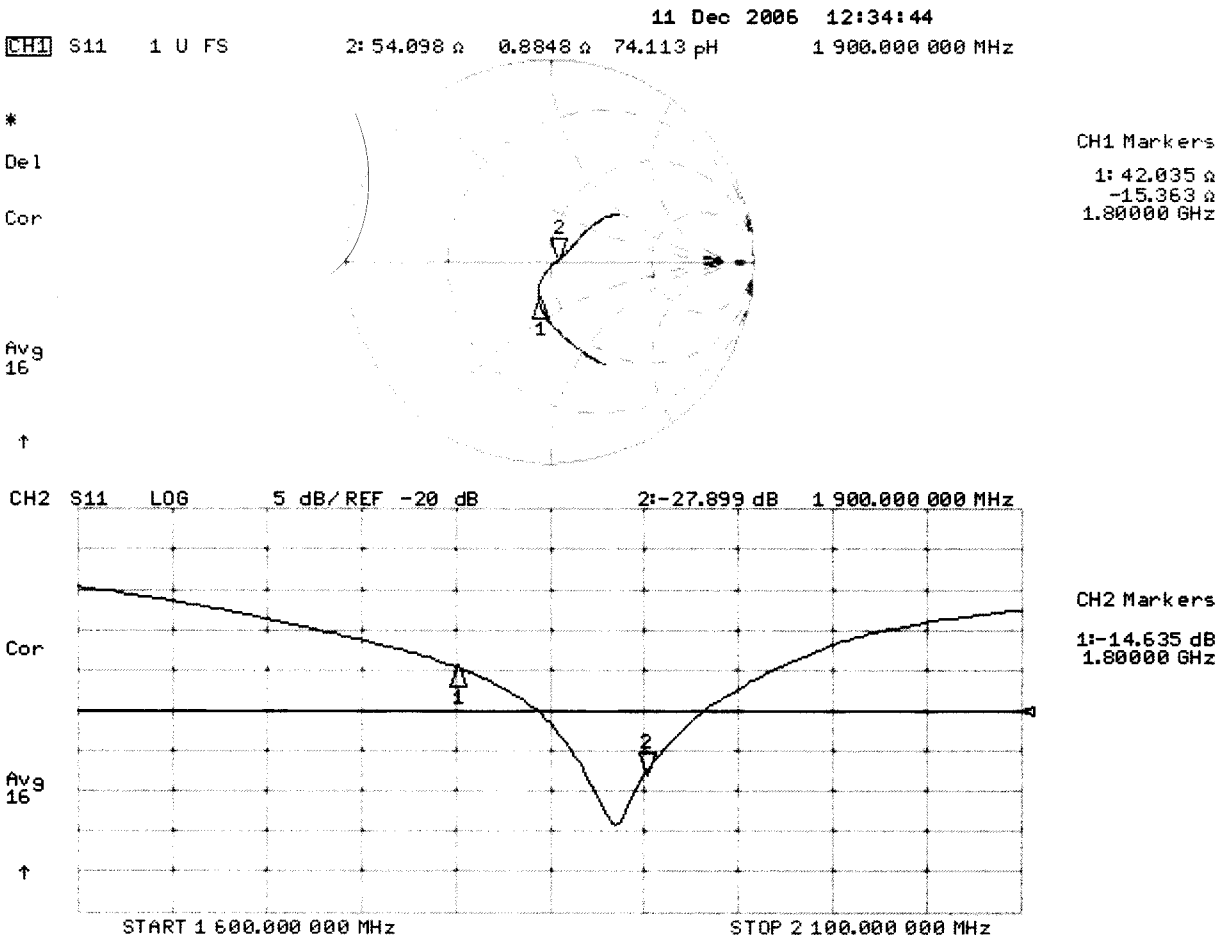
Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 86.4 V/m; Power Drift = 0.045 dB
Peak SAR (extrapolated) = 15.7 W/kg
SAR(1 g) = 9.18 mW/g; SAR(10 g) = 4.85 mW/g
Maximum value of SAR (measured) = 10.5 mW/g



0 dB = 10.5mW/g

Impedance Measurement Plot for Head TSL



DASY4 Validation Report for Body TSL

Date/Time: 12.12.2006 15:22:28

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539

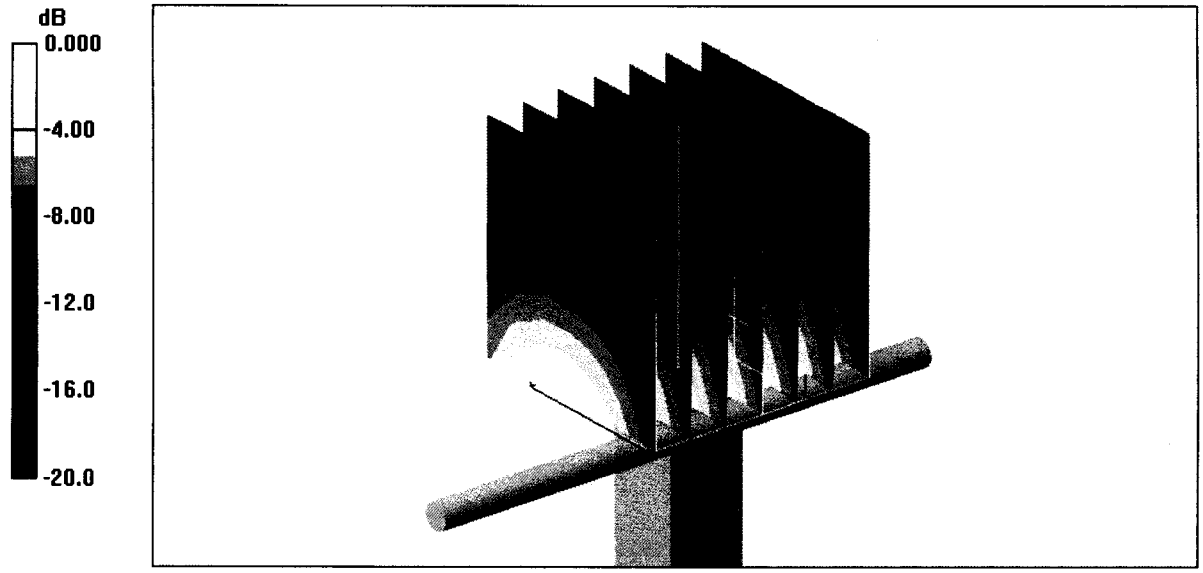
Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: MSL U10 BB;
Medium parameters used: f = 1900 MHz; σ = 1.54 mho/m; ε_r = 51.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507 (HF); ConvF(4.43, 4.43, 4.43); Calibrated: 19.10.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 15.12.2005
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; ;
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

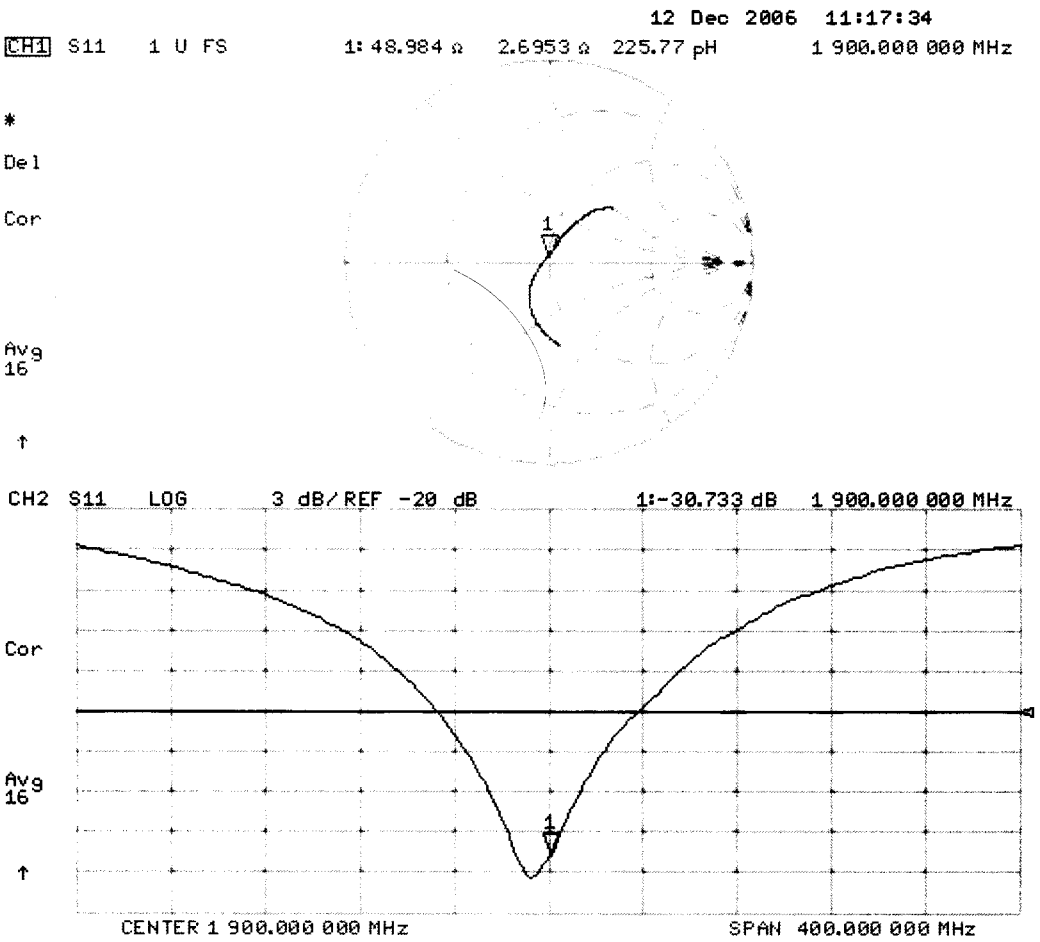
Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 89.4 V/m; Power Drift = -0.001 dB
Peak SAR (extrapolated) = 15.8 W/kg
SAR(1 g) = 9.49 mW/g; SAR(10 g) = 5.05 mW/g
Maximum value of SAR (measured) = 10.5 mW/g



0 dB = 10.5mW/g

Impedance Measurement Plot for Body TSL



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Accreditation No.: SCS 108

Client Ericsson UK

Certificate No: D835V2-442_Dec06

CALIBRATION CERTIFICATE

Object: D835V2 - SN: 442

Calibration procedure(s): QA CAL-05.v6
Calibration procedure for dipole validation kits

Calibration date: December 06, 2006

Condition of the calibrated item: In Tolerance

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	03-Oct-06 (METAS, No. 217-00608)	Oct-07
Power sensor HP 8481A	US37292783	03-Oct-06 (METAS, No. 217-00608)	Oct-07
Reference 20 dB Attenuator	SN: 5086 (20g)	10-Aug-06 (METAS, No 217-00591)	Aug-07
Reference 10 dB Attenuator	SN: 5047.2 (10r)	10-Aug-06 (METAS, No 217-00591)	Aug-07
Reference Probe ET3DV6 (HF)	SN 1507	19-Oct-06 (SPEAG, No. ET3-1507_Oct06)	Oct-07
DAE4	SN 601	15-Dec-05 (SPEAG, No. DAE4-601_Dec05)	Dec-06

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (SPEAG, in house check Oct-05)	In house check: Oct-07
RF generator Agilent E4421B	MY41000675	11-May-05 (SPEAG, in house check Nov-05)	In house check: Nov-07
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (SPEAG, in house check Oct-06)	In house check: Oct-07

	Name	Function	Signature
Calibrated by:	Claudio Leubler	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: December 8, 2006

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Accreditation No.: SCS 108

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
b) CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001
c) Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Supplement C (Edition 01-01) to Bulletin 65

Additional Documentation:

d) DASY4 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY4	V4.7
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V4.9	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	**Permittivity**	**Conductivity**
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	41.7 ± 6 %	0.90 mho/m ± 6 %
Head TSL temperature during test	(22.8 ± 0.2) °C	----	----

.

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.35 mW / g
SAR normalized	normalized to 1W	9.40 mW / g
SAR for nominal Head TSL parameters [1]	normalized to 1W	**9.43 mW / g ± 17.0 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.54 mW / g
SAR normalized	normalized to 1W	6.16 mW / g
SAR for nominal Head TSL parameters [1]	normalized to 1W	**6.17 mW / g ± 16.5 % (k=2)**

[1] Correction to nominal TSL parameters according to d), chapter "SAR Sensitivities"

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.97 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	54.1 ± 6 %	1.00 mho/m ± 6 %
Body TSL temperature during test	(22.0 ± 0.2) °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	condition	
SAR measured	250 mW input power	2.51 mW / g
SAR normalized	normalized to 1W	10.0 mW / g
SAR for nominal Body TSL parameters [2]	normalized to 1W	**9.70 mW / g ± 17.0 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.67 mW / g
SAR normalized	normalized to 1W	6.68 mW / g
SAR for nominal Body TSL parameters [2]	normalized to 1W	**6.51 mW / g ± 16.5 % (k=2)**

[2] Correction to nominal TSL parameters according to d), chapter "SAR Sensitivities"

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.3 Ω - 7.5 jΩ
Return Loss	- 22.5 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.2 Ω - 9.7 jΩ
Return Loss	- 19.4 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.390 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	July 26, 2001

DASY4 Validation Report for Head TSL

Date/Time: 05.12.2006 12:25:28

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 442

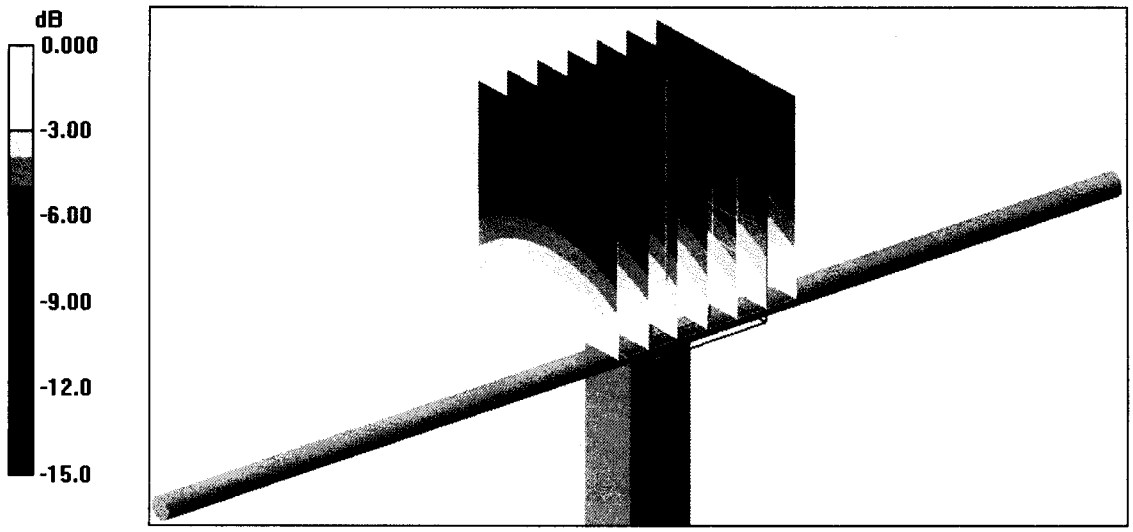
Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: HSL 900 MHz;
Medium parameters used: f = 835 MHz; σ = 0.902 mho/m; ε_r = 42; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507 (HF); ConvF(6.09, 6.09, 6.09); Calibrated: 19.10.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 15.12.2005
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; ;
- Measurement SW: DASY4, V4.7 Build 46; Postprocessing SW: SEMCAD, V1.8 Build 171

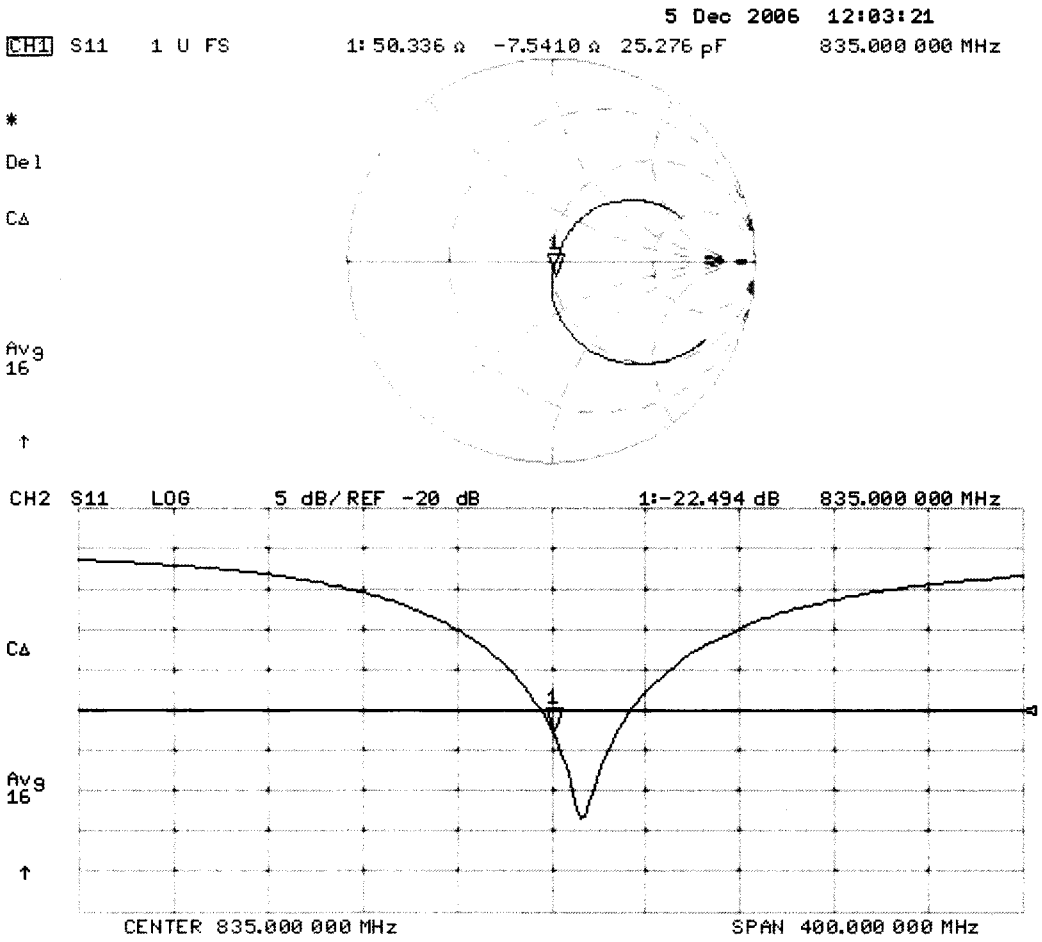
Pin = 250 mW; d = 15 mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 55.5 V/m; Power Drift = -0.017 dB
Peak SAR (extrapolated) = 3.40 W/kg
SAR(1 g) = 2.35 mW/g; SAR(10 g) = 1.54 mW/g
Maximum value of SAR (measured) = 2.55 mW/g



0 dB = 2.55mW/g

Impedance Measurement Plot for Head TSL



DASY4 Validation Report for Body TSL

Date/Time: 06.12.2006 13:07:13

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442

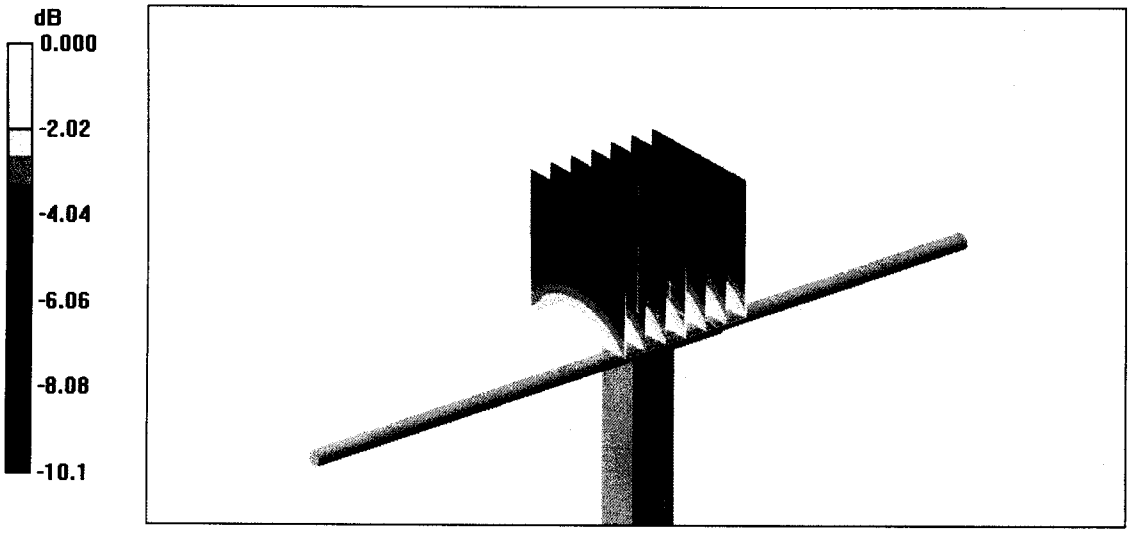
Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: MSL900;
Medium parameters used: f = 835 MHz; σ = 1 mho/m; ε_r = 54.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507 (HF); ConvF(5.75, 5.75, 5.75); Calibrated: 19.10.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 15.12.2005
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; ;
- Measurement SW: DASY4, V4.7 Build 46; Postprocessing SW: SEMCAD, V1.8 Build 171

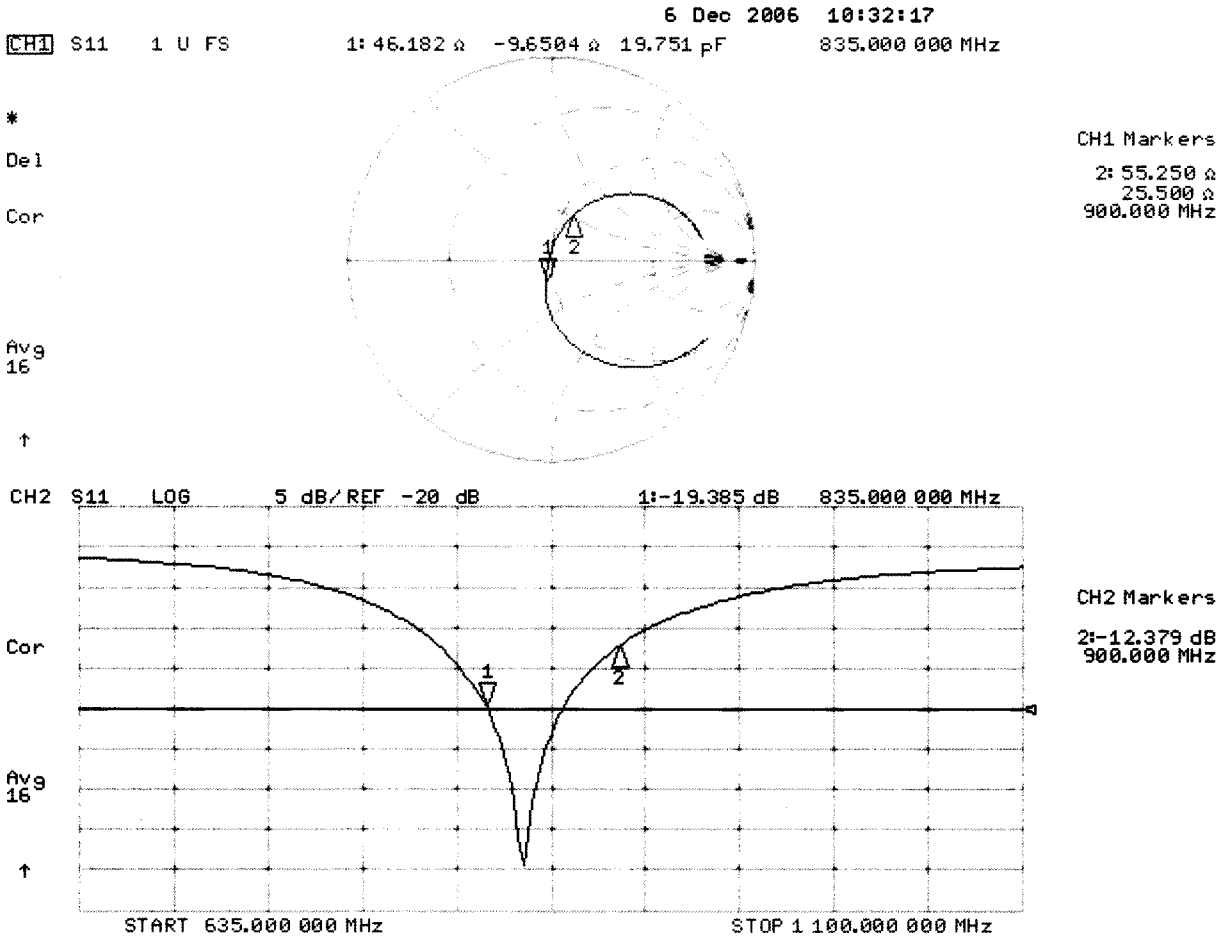
Pin = 250 mW; d = 15 mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 54.7 V/m; Power Drift = -0.002 dB
Peak SAR (extrapolated) = 3.49 W/kg
SAR(1 g) = 2.51 mW/g; SAR(10 g) = 1.67 mW/g
Maximum value of SAR (measured) = 2.72 mW/g



0 dB = 2.72mW/g

Impedance Measurement Plot for Body TSL



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Accreditation No.: SCS 108

Client Sony Ericsson UK

Certificate No: DAE3-448_Nov07

CALIBRATION CERTIFICATE

Object	DAE3 - SD 000 D03 AE - SN: 448
Calibration procedure(s)	QA CAL-06.v12 Calibration procedure for the data acquisition electronics (DAE)
Calibration date:	November 15, 2007
Condition of the calibrated item	In Tolerance

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Fluke Process Calibrator Type 702	SN: 6295803	04-Oct-07 (Elcal AG, No: 6467)	Oct-08
Keithley Multimeter Type 2001	SN: 0810278	03-Oct-07 (Elcal AG, No: 6465)	Oct-08
Secondary Standards	**ID #**	**Check Date (in house)**	**Scheduled Check**
Calibrator Box V1.1	SE UMS 006 AB 1004	25-Jun-07 (SPEAG, in house check)	In house check Jun-08

	Name	Function	Signature
Calibrated by:	Dominique Steffen	Technician	
Approved by:	Fin Bomholt	R&D Director	

Issued: November 15, 2007

Glossary

DAE	data acquisition electronics
Connector angle	information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle*: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters contain technical information as a result from the performance test and require no uncertainty.
- *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
- *Common mode sensitivity:* Influence of a positive or negative common mode voltage on the differential measurement.
- *Channel separation:* Influence of a voltage on the neighbor channels not subject to an input voltage.
- *AD Converter Values with inputs shorted:* Values on the internal AD converter corresponding to zero input voltage
- *Input Offset Measurement*: Output voltage and statistical results over a large number of zero voltage measurements.
- *Input Offset Current:* Typical value for information; Maximum channel input offset current, not considering the input resistance.
- *Input resistance:* DAE input resistance at the connector, during internal auto-zeroing and during measurement.
- *Low Battery Alarm Voltage:* Typical value for information. Below this voltage, a battery alarm signal is generated.
- *Power consumption:* Typical value for information. Supply currents in various operating modes.

DC Voltage Measurement

A/D - Converter Resolution nominal

High Range:	1LSB =	6.1μV ,	full range =	-100...+300 mV
Low Range:	1LSB =	61nV ,	full range =	-1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	403.816 ± 0.1% (k=2)	404.070 ± 0.1% (k=2)	403.834 ± 0.1% (k=2)
Low Range	3.95937 ± 0.7% (k=2)	3.96143 ± 0.7% (k=2)	3.93067 ± 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	277 ° ± 1 °

Appendix

1. DC Voltage Linearity

High Range		Input (μV)	Reading (μV)	Error (%)
Channel X	+ Input	200000	200000.1	0.00
Channel X	+ Input	20000	20008.04	0.04
Channel X	- Input	20000	-20002.96	0.01
Channel Y	+ Input	200000	199999.5	0.00
Channel Y	+ Input	20000	20005.57	0.03
Channel Y	- Input	20000	-20005.68	0.03
Channel Z	+ Input	200000	199999.3	0.00
Channel Z	+ Input	20000	20006.62	0.03
Channel Z	- Input	20000	-20004.64	0.02

Low Range		Input (μV)	Reading (μV)	Error (%)
Channel X	+ Input	2000	1999.9	0.00
Channel X	+ Input	200	201.18	0.59
Channel X	- Input	200	-199.65	-0.17
Channel Y	+ Input	2000	2000	0.00
Channel Y	+ Input	200	199.43	-0.28
Channel Y	- Input	200	-200.60	0.30
Channel Z	+ Input	2000	2000.1	0.00
Channel Z	+ Input	200	199.20	-0.40
Channel Z	- Input	200	-200.60	0.30

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	10.80	9.16
	- 200	-8.06	-8.82
Channel Y	200	-9.03	-8.67
	- 200	7.38	7.30
Channel Z	200	11.34	10.22
	- 200	-11.97	-11.93

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	1.80	0.18
Channel Y	200	0.22	-	3.40
Channel Z	200	-2.84	-0.85	-

4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16252	17093
Channel Y	16361	17876
Channel Z	16104	15739

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec
Input 10MΩ

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	0.19	-1.33	1.54	0.41
Channel Y	-0.76	-2.61	0.61	0.29
Channel Z	-0.83	-2.27	0.40	0.38

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance

	Zeroing (MOhm)	Measuring (MOhm)
Channel X	0.2000	199.7
Channel Y	0.1999	200.9
Channel Z	0.1999	201.1

8. Low Battery Alarm Voltage (verified during pre test)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (verified during pre test)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.0	+6	+14
Supply (- Vcc)	–0.01	-8	-9

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Accredited by the Swiss Accreditation Service (SAS) **Accreditation No.: SCS 108**
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client Sony Ericsson GMK

CALIBRATION CERTIFICATE

Object	ET3DV6 - SN:1610
Calibration procedure(s)	QA CAL-01.v6 Calibration procedure for dosimetric E-field probes
Calibration date:	November 14, 2007
Condition of the calibrated item	In Tolerance

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Power sensor E4412A	MY41495277	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Power sensor E4412A	MY41498087	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Reference 3 dB Attenuator	SN: S5054 (3c)	8-Aug-07 (METAS, No. 217-00719)	Aug-08
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-07 (METAS, No. 217-00671)	Mar-08
Reference 30 dB Attenuator	SN: S5129 (30b)	8-Aug-07 (METAS, No. 217-00720)	Aug-08
Reference Probe ES3DV2	SN: 3013	4-Jan-07 (SPEAG, No. ES3-3013_Jan07)	Jan-08
DAE4	SN: 654	20-Apr-07 (SPEAG, No. DAE4-654_Apr07)	Apr-08

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (SPEAG, in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585	18-Oct-01 (SPEAG, in house check Oct-07)	In house check: Oct-08

	Name	Function	Signature
Calibrated by:	Katja Pokovic	Technical Manager	
Approved by:	Niels Kuster	Quality Manager	

Issued: November 14, 2007

Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E^2-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- *DCPx,y,z:* DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- *ConvF and Boundary Effect Parameters:* Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

Probe ET3DV6

SN:1610

Manufactured:	July 27, 2001
Last calibrated:	November 17, 2006
Recalibrated:	November 14, 2007

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

DASY - Parameters of Probe: ET3DV6 SN:1610

Sensitivity in Free Space[A] Diode Compression[B]

NormX	**1.73** ± 10.1%	$\mu V/(V/m)^2$	DCP X	**93** mV
NormY	**1.70** ± 10.1%	$\mu V/(V/m)^2$	DCP Y	**95** mV
NormZ	**1.74** ± 10.1%	$\mu V/(V/m)^2$	DCP Z	**92** mV

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL **900 MHz** **Typical SAR gradient: 5 % per mm**

Sensor Center to Phantom Surface Distance		**3.7 mm**	**4.7 mm**
SAR_{be} [%]	Without Correction Algorithm	10.3	6.1
SAR_{be} [%]	With Correction Algorithm	1.6	0.7

TSL **1750 MHz** **Typical SAR gradient: 10 % per mm**

Sensor Center to Phantom Surface Distance		**3.7 mm**	**4.7 mm**
SAR_{be} [%]	Without Correction Algorithm	9.9	6.1
SAR_{be} [%]	With Correction Algorithm	0.0	0.8

Sensor Offset

Probe Tip to Sensor Center	**2.7** mm

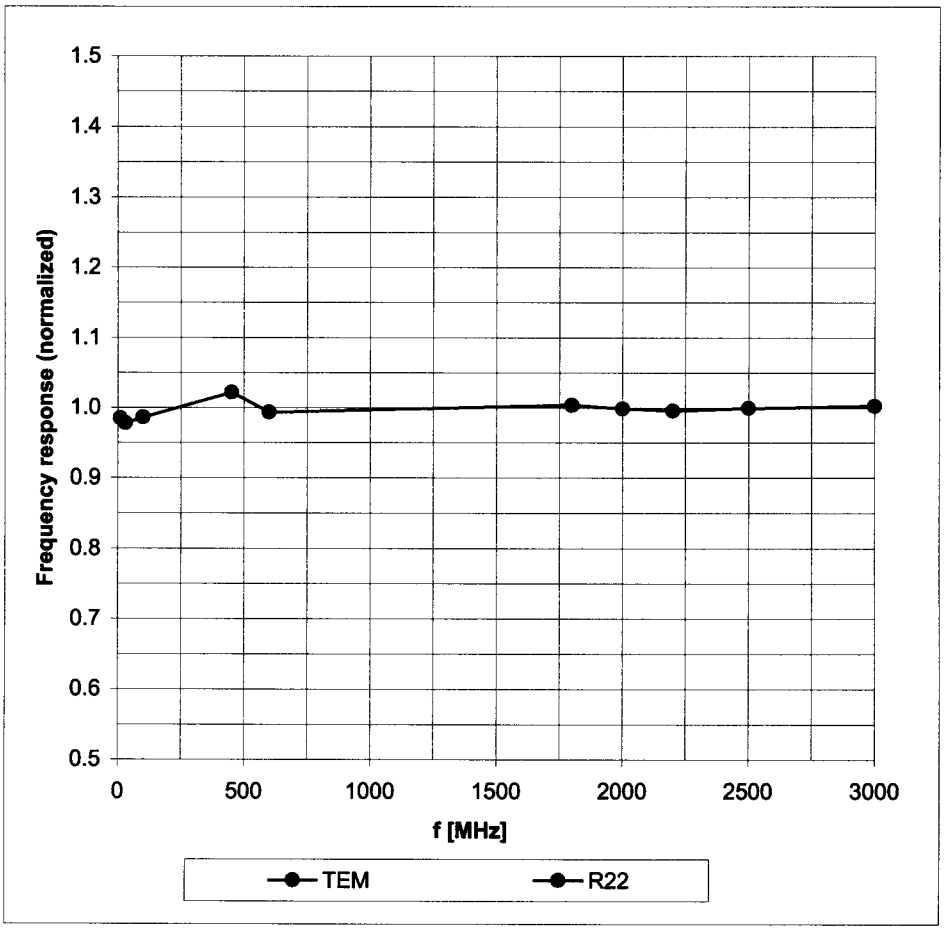
The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

[A] The uncertainties of NormX,Y,Z do not affect the E^2-field uncertainty inside TSL (see Page 8).

[B] Numerical linearization parameter: uncertainty not required.

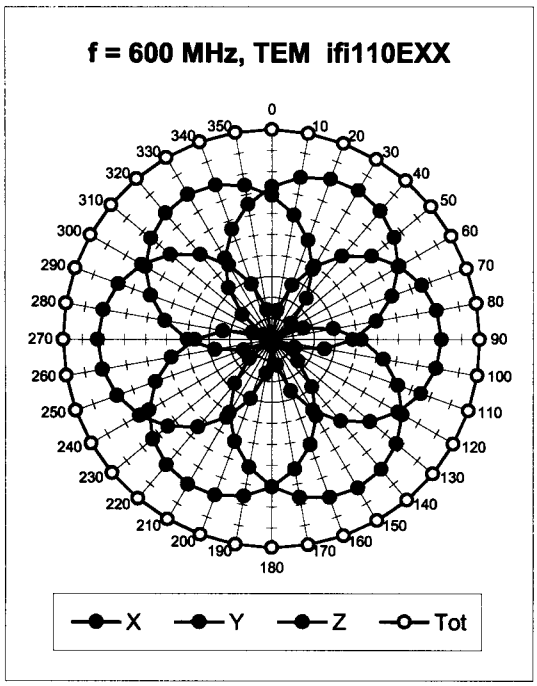
Frequency Response of E-Field

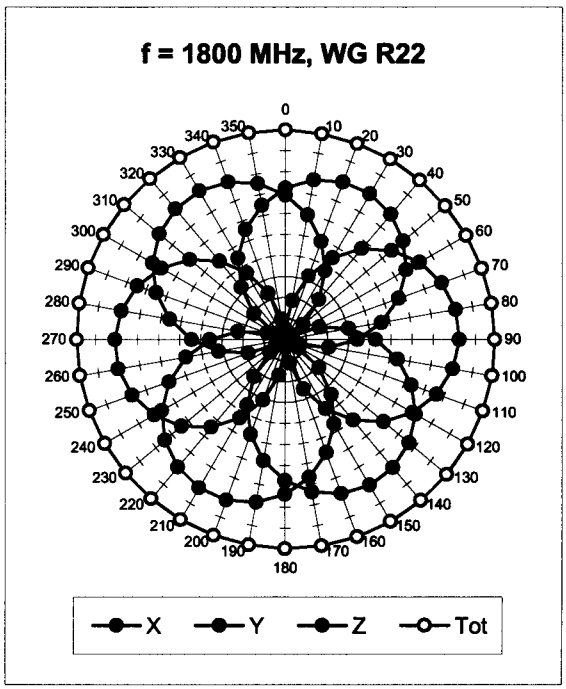
(TEM-Cell:ifi110 EXX, Waveguide: R22)

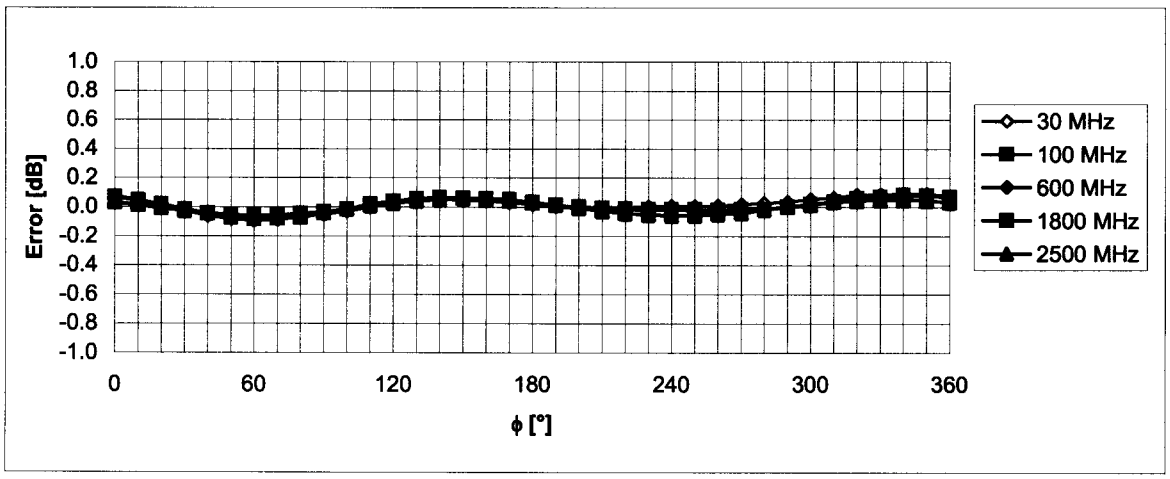


Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Receiving Pattern (ϕ), ϑ = 0°



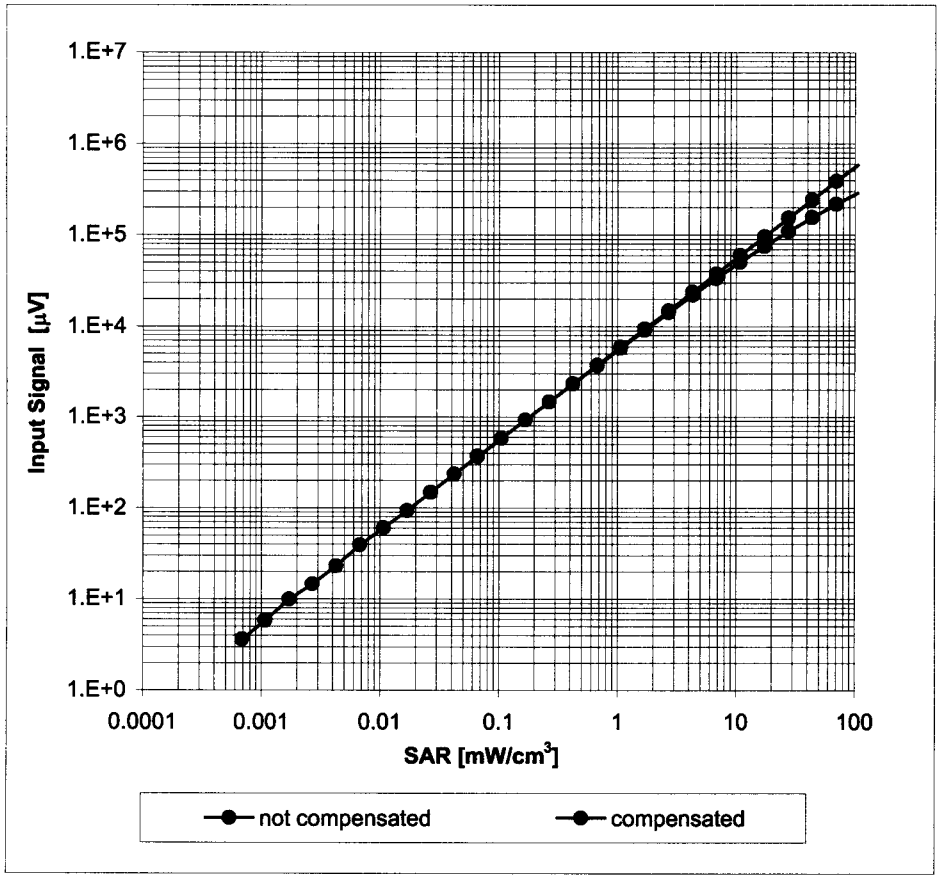


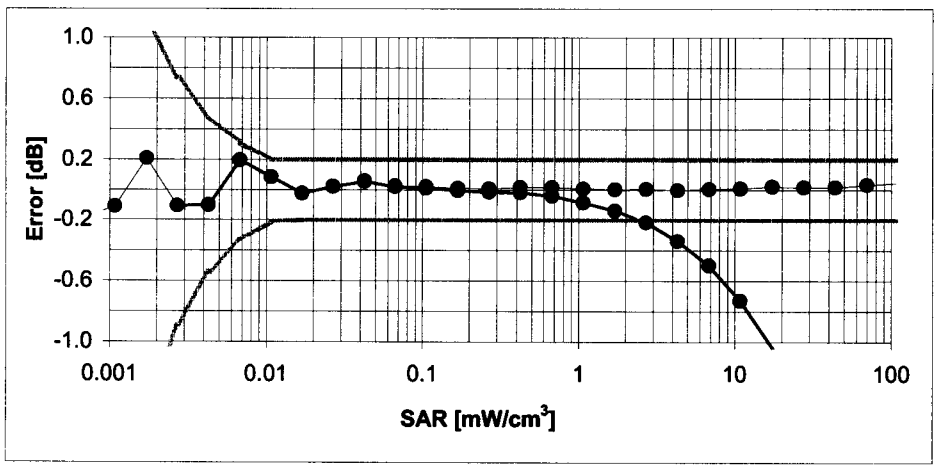


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Dynamic Range f(SAR_{head})

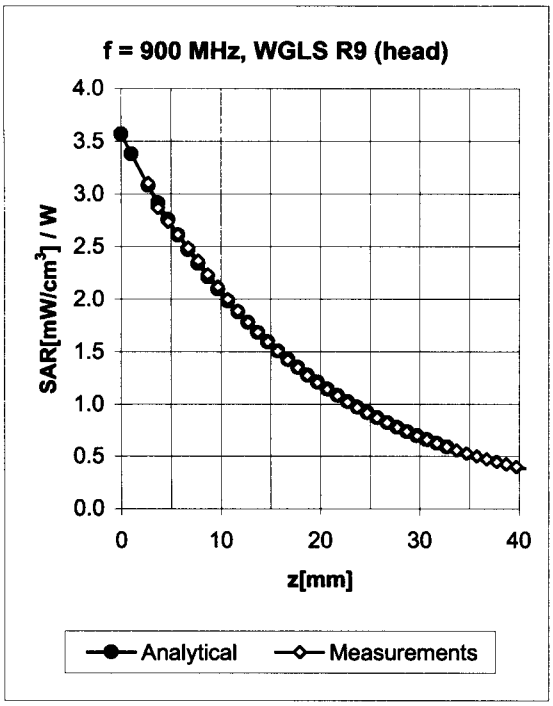
(Waveguide R22, f = 1800 MHz)

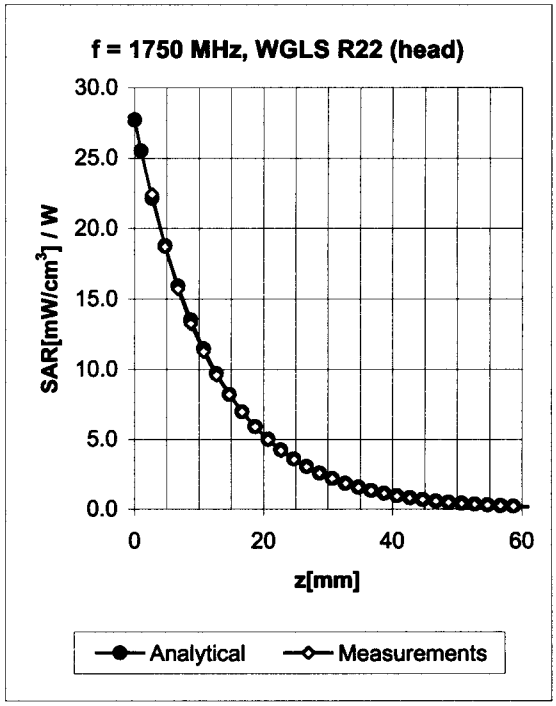




Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



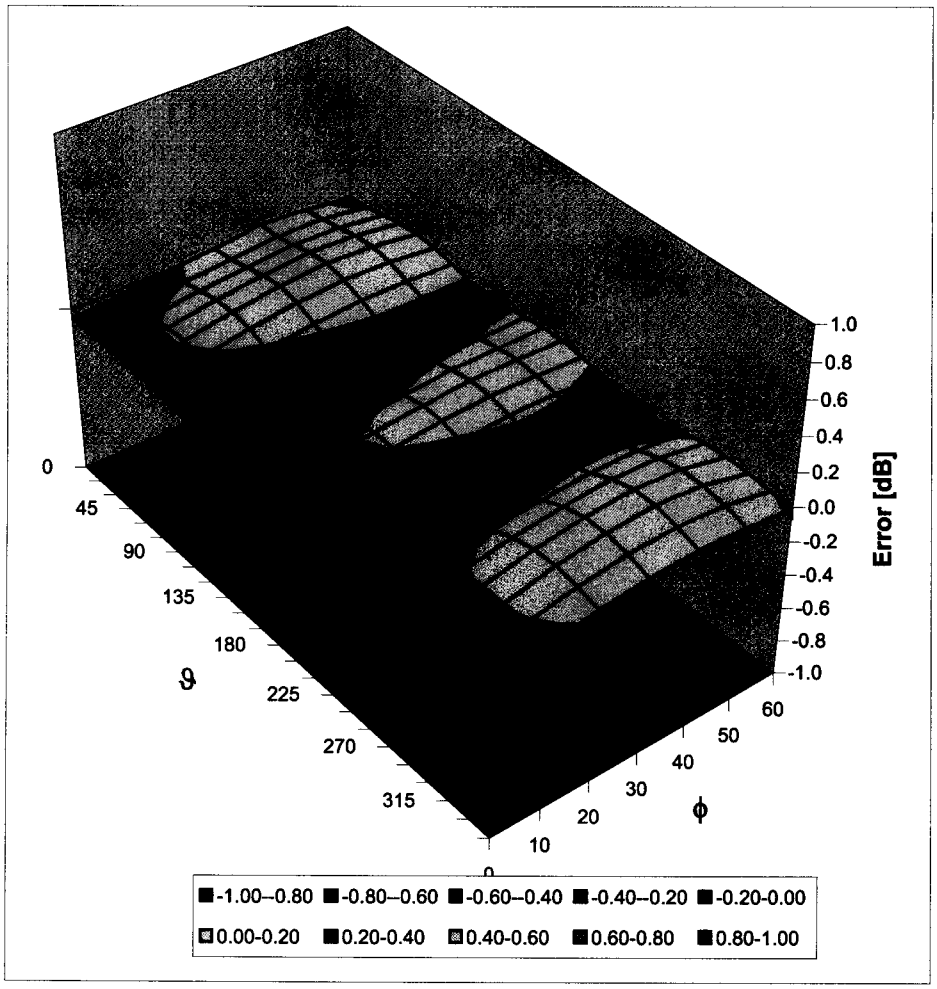


f [MHz]	Validity [MHz][c]	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
835	± 50 / ± 100	Head	41.5 ± 5%	0.90 ± 5%	0.76	1.87	6.69 ± 11.0% (k=2)
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.73	1.94	6.59 ± 11.0% (k=2)
1750	± 50 / ± 100	Head	40.1 ± 5%	1.37 ± 5%	0.81	1.69	5.35 ± 11.0% (k=2)
1900	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.87	1.65	5.18 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.78	1.91	4.70 ± 11.8% (k=2)
835	± 50 / ± 100	Body	55.2 ± 5%	0.97 ± 5%	0.76	1.93	6.39 ± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.66	2.00	6.07 ± 11.0% (k=2)
1750	± 50 / ± 100	Body	53.4 ± 5%	1.49 ± 5%	0.77	1.94	4.89 ± 11.0% (k=2)
1900	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.74	1.99	4.68 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.90	1.73	4.09 ± 11.8% (k=2)

[c] **The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.**

Deviation from Isotropy in HSL

Error (ϕ, ϑ), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

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Accreditation No.: SCS 108

Client **Sony Ericsson UK**

Certificate No: ET3-1611_Dec07

CALIBRATION CERTIFICATE

Object	ET3DV6 - SN:1611
Calibration procedure(s)	QA CAL-01.v6 Calibration procedure for dosimetric E-field probes
Calibration date:	December 17, 2007
Condition of the calibrated item	In Tolerance

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Power sensor E4412A	MY41495277	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Power sensor E4412A	MY41498087	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Reference 3 dB Attenuator	SN: S5054 (3c)	8-Aug-07 (METAS, No. 217-00719)	Aug-08
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-07 (METAS, No. 217-00671)	Mar-08
Reference 30 dB Attenuator	SN: S5129 (30b)	8-Aug-07 (METAS, No. 217-00720)	Aug-08
Reference Probe ES3DV2	SN: 3013	4-Jan-07 (SPEAG, No. ES3-3013_Jan07)	Jan-08
DAE4	SN: 654	20-Apr-07 (SPEAG, No. DAE4-654_Apr07)	Apr-08

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (SPEAG, in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585	18-Oct-01 (SPEAG, in house check Oct-07)	In house check: Oct-08

	Name	Function	Signature
Calibrated by:	Katja Pokovic	Technical Manager	
Approved by:	Niels Kuster	Quality Manager	

Issued: December 17, 2007

Calibration Laboratory of
Schmid & Partner
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Zeughausstrasse 43, 8004 Zurich, Switzerland

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E^2-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- *DCPx,y,z:* DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- *ConvF and Boundary Effect Parameters:* Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

Probe ET3DV6

SN:1611

Manufactured:	July 27, 2001
Last calibrated:	December 12, 2006
Recalibrated:	December 17, 2007

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

DASY - Parameters of Probe: ET3DV6 SN:1611

Sensitivity in Free Space[A] Diode Compression[B]

NormX	**1.72** ± 10.1%	$\mu V/(V/m)^2$	DCP X	**93** mV
NormY	**1.86** ± 10.1%	$\mu V/(V/m)^2$	DCP Y	**93** mV
NormZ	**1.82** ± 10.1%	$\mu V/(V/m)^2$	DCP Z	**94** mV

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL **900 MHz** **Typical SAR gradient: 5 % per mm**

Sensor Center to Phantom Surface Distance		**3.7 mm**	**4.7 mm**
SAR_{be} [%]	Without Correction Algorithm	9.8	5.7
SAR_{be} [%]	With Correction Algorithm	0.3	0.2

TSL **1750 MHz** **Typical SAR gradient: 10 % per mm**

Sensor Center to Phantom Surface Distance		**3.7 mm**	**4.7 mm**
SAR_{be} [%]	Without Correction Algorithm	12.7	8.0
SAR_{be} [%]	With Correction Algorithm	0.0	0.3

Sensor Offset

Probe Tip to Sensor Center	**2.7** mm

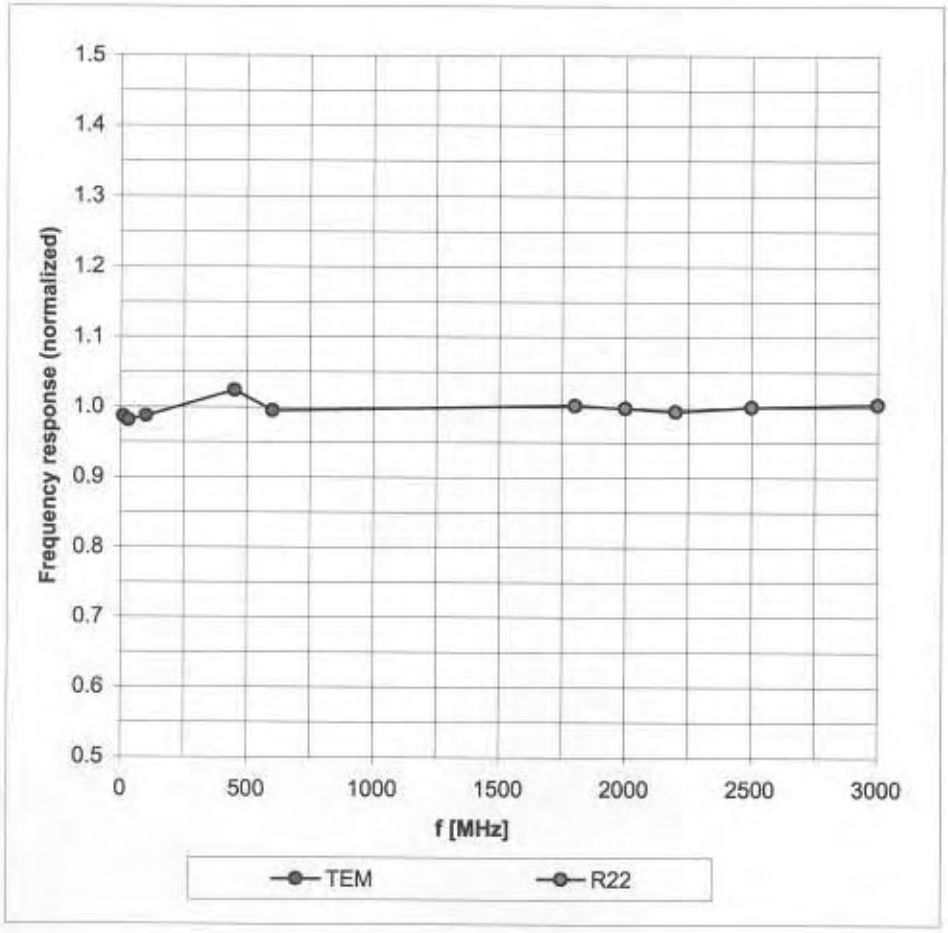
The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

[A] The uncertainties of NormX,Y,Z do not affect the E^2-field uncertainty inside TSL (see Page 8).

[B] Numerical linearization parameter: uncertainty not required.

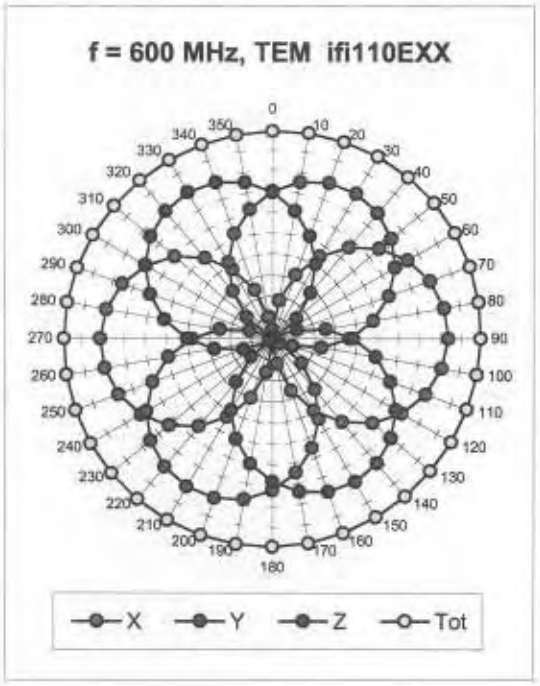
Frequency Response of E-Field

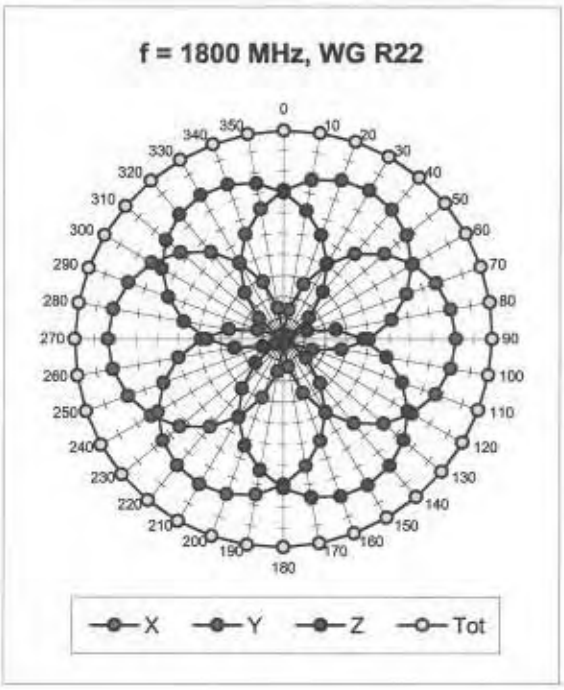
(TEM-Cell:ifi110 EXX, Waveguide: R22)

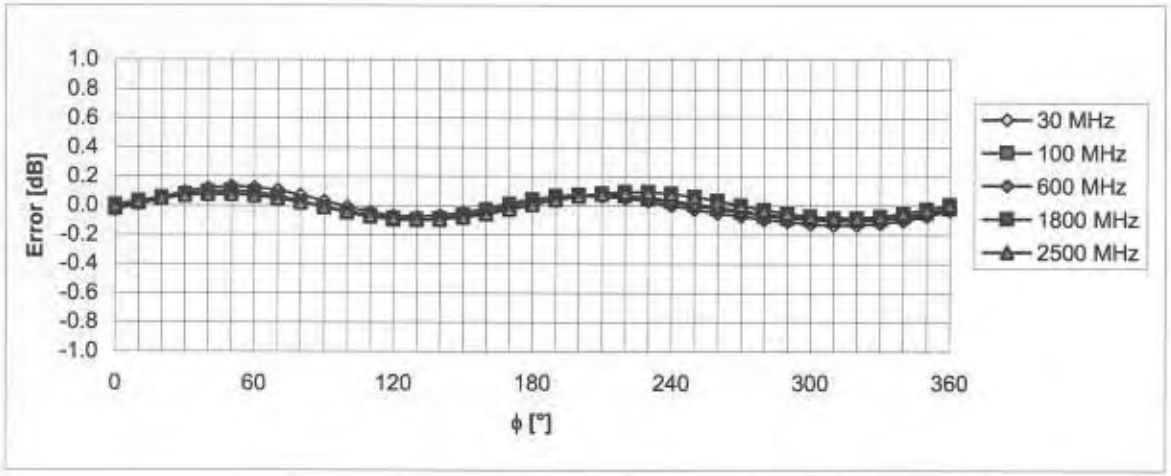


Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Receiving Pattern (ϕ), ϑ = 0°



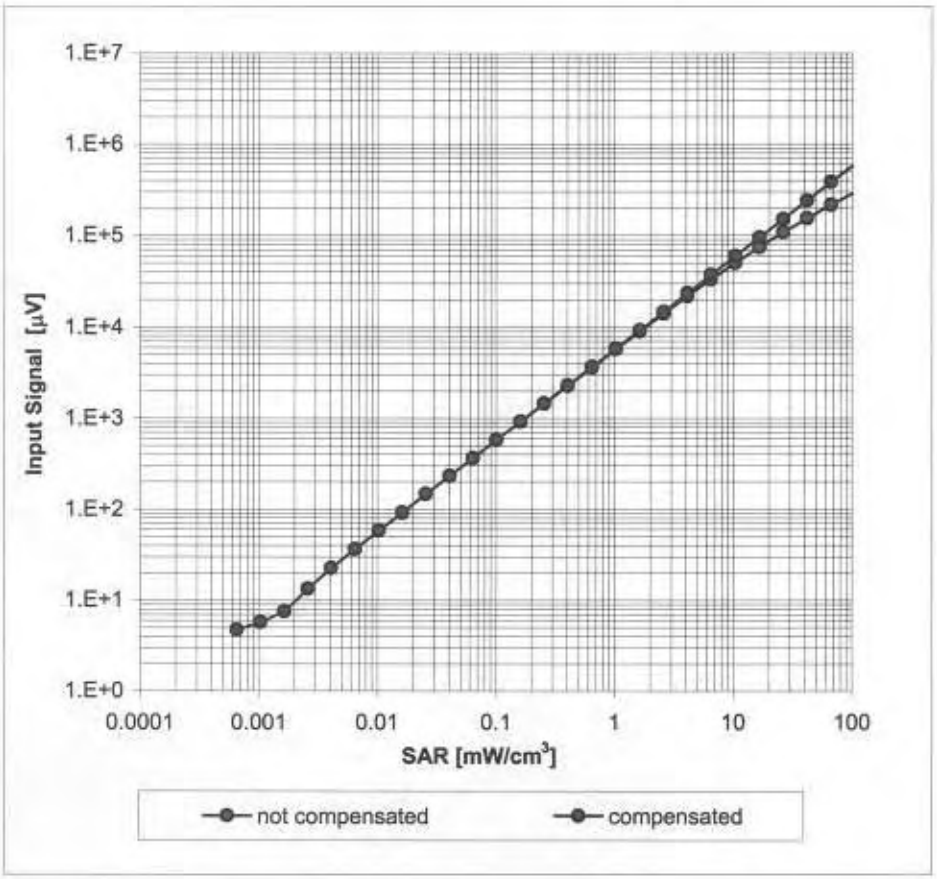


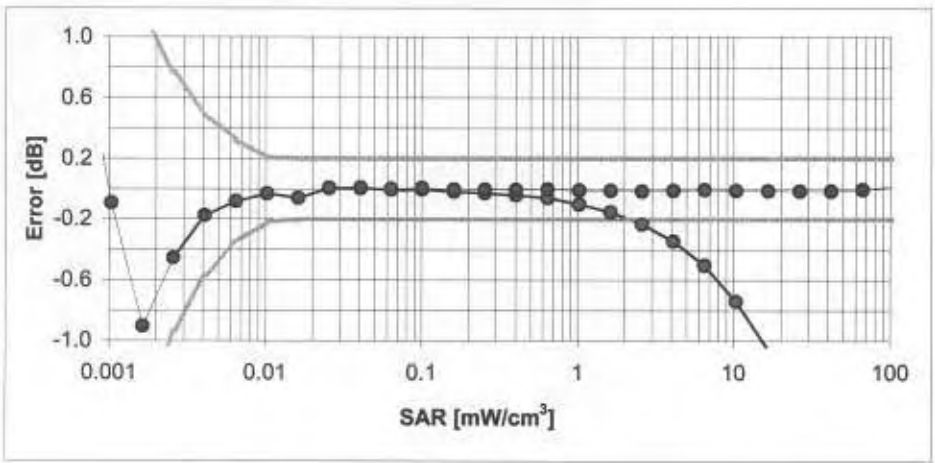


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Dynamic Range f(SAR_{head})

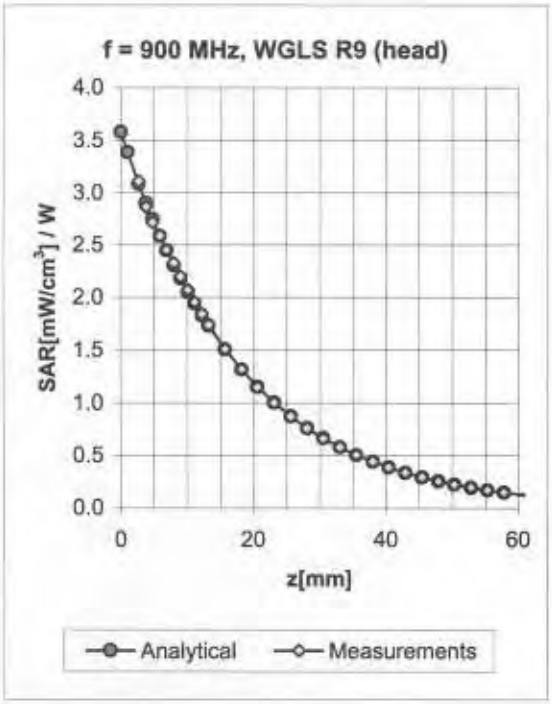
(Waveguide R22, f = 1800 MHz)

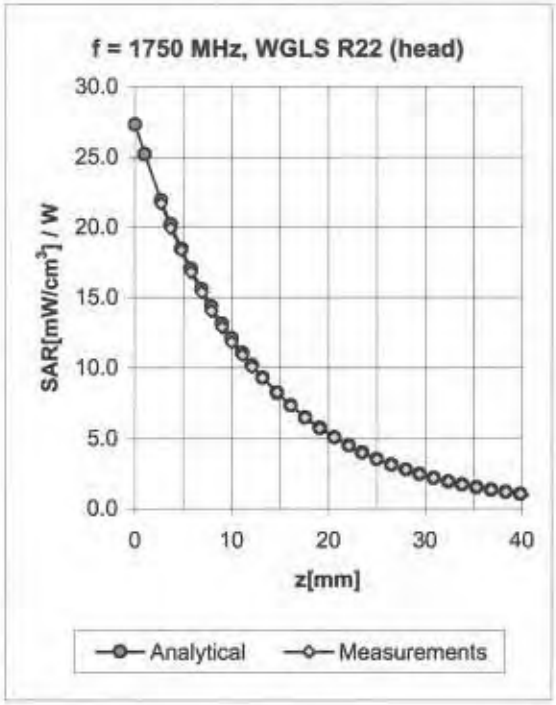




Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



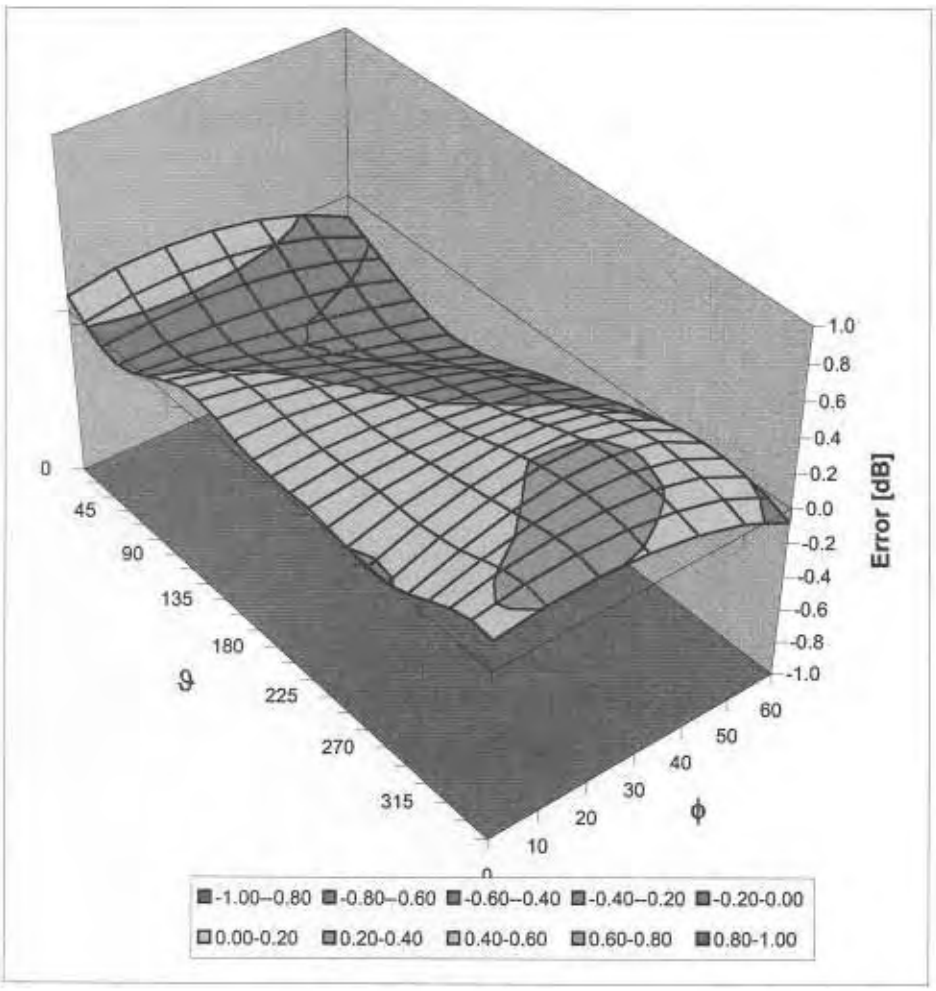


f [MHz]	Validity [MHz][C]	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
835	± 50 / ± 100	Head	41.5 ± 5%	0.90 ± 5%	0.55	2.22	6.63 ± 11.0% (k=2)
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.52	2.30	6.48 ± 11.0% (k=2)
1750	± 50 / ± 100	Head	40.1 ± 5%	1.37 ± 5%	0.48	2.95	5.34 ± 11.0% (k=2)
1900	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.51	2.68	5.17 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.70	1.91	4.55 ± 11.8% (k=2)
835	± 50 / ± 100	Body	55.2 ± 5%	0.97 ± 5%	0.70	1.91	6.49 ± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.66	2.01	6.24 ± 11.0% (k=2)
1750	± 50 / ± 100	Body	53.4 ± 5%	1.49 ± 5%	0.48	3.07	4.98 ± 11.0% (k=2)
1900	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.52	2.64	4.79 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.74	1.75	4.15 ± 11.8% (k=2)

[C] The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

Deviation from Isotropy in HSL

Error (ϕ, ϑ), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)