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LD/SEMC/CCMVALE Kent Lorentzon

Approved

LD/SEMC/CCMVALEC Peter Lindeborg

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PL

Company Internal
REPORT

No.

CCDA09:612

Date

091221

Rev

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Report issued by Accredited SAR Laboratory**for**

FCC ID: PY7A3880058 (U5i)

IC: 4170B-A3880058 (U5i)

Date of test: 2009-11-09 – 2009-12-07**Laboratory:** Sony Ericsson SAR Test Laboratory
Sony Ericsson Mobile Communications AB
Nya Vattentorget
SE-221 82 LUND, Sweden**Testing Engineer:** Kent Lorentzon
Kent.Lorentzon@sonyericsson.com
+46 10 80 19043**Testing Approval:** Peter Lindeborg
Peter.Lindeborg@sonyericsson.com
+46 10 80 24368**Statement of Compliance**

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

Sony Ericsson Type: AAD-3880058-BV**FCC ID: PY7A3880058****IC: 4170B-A3880058**

to which this declaration relates, is in conformity with the appropriate RF exposure standards recommendations and guidelines. It also declares that the product was tested in accordance with the appropriate measurement standards, guidelines and recommended practices. Any deviations from these standards, guidelines and recommended practices are noted below:

(None)

This laboratory is accredited to ISO/IEC 17025 (SWEDAC accreditation no. 1847).



Laboratories are accredited by the Swedish Board for Accreditation and Conformity Assessment (SWEDAC) under the terms of Swedish legislation. The accredited laboratory activities meet the requirements in SS-EN ISO/IEC 17025 (2005). This report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results and statements contained herein relate only to the items tested. The names of individuals involved may be mentioned only in connection with the statements or results from this report.

Sony Ericsson encourages all feedback, both positive and negative, on this report.
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1 Introduction

In this test report, compliance of the Sony Ericsson PY7A3880058 (U5i) portable telephone with RF safety guidelines is demonstrated. The applicable RF safety guidelines and the SAR measurement specifications used for the test are described in the SAR Measurement Specifications of Wireless Handsets [1].

2 Customer details

Company Name:	Sony Ericsson Mobile Communications AB
Address:	Sony Ericsson Mobile Tokyo, Japan
Contact Name:	Masahiro Kurosawa

3 Device Under Test

3.1 Antenna Description

Type	Internal antenna	
Location	Bottom of phone	
Main and BT antennas distance	84,3 mm	
Dimensions	Max length	44 mm
	Max width	13 mm
Configuration	Monopole	



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3.2 Device Description

Device model	AAD-3880058-BV					
Market name	U5i					
Serial number (EUT #)	BX900Y15V6 (#16641) BX900Y15VN (#16644, WLAN)					
Mode	GSM 850			GSM 1900		
Crest factor	8.3			8.3		
Multiple access scheme	TDMA			TDMA		
Channel No.	128	190	251	512	661	885
Measured Power Level [dBm] ¹	33.1	33.1	33.1	30.6	30.5	30.5
Product Maximum power Level [dBm] ¹ (1524 spec)	33.2	33.2	33.2	30.7	30.7	30.7
Data mode	GPRS			GPRS		
Crest factor	4.15			4.15		
Measured Power Level [dBm] ¹	31.1	31.1	31.0	28.7	28.6	28.6
Product Maximum power Level [dBm] ¹ (1524 spec)	31.2	31.2	31.2	28.7	28.7	28.7
Data mode	EDGE			EDGE		
Crest factor	4.15			4.15		
Measured Power Level [dBm] ¹	26.8	26.8	26.9	26.8	26.8	26.9
Product Maximum power Level [dBm] ¹ (1524 spec)	27.0	27.0	27.0	27.0	27.0	27.0
Transmitting frequency range [MHz]	824.0 - 849.0			1850.0 - 1910.0		

GPRS Multislot class	10
EDGE class	10
GPRS Capability class	B
BT class and conducted power	Class 1, 10,0 mW
Prototype or production unit	Preproduction
Hardware Version	AP1
Software version	R1CA016
Device category	Portable
RF exposure environment	General population / uncontrolled

¹ Measured output values were provided by the customer.



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WLAN Output Power					
Mode	Max Output Power ¹ (dBm)	Factory Tolerance ¹ (dB)	EUT (#16644) power (dBm) ¹		
			Ch 1	Ch6	Ch 11
802.11b 1Mbit/sec	19,0	1	19,0	19,1	19,2
802.11b 2Mbit/sec			19,3	19,2	19,3
802.11b 5.5Mbit/sec			19,2	19,1	19,0
802.11b 11Mbit/sec			19,2	19,0	19,0
802.11g 6Mbit/sec	15,0	1	14,8	14,9	15,2
802.11g 9Mbit/sec			15,0	15,1	15,2
802.11g 12Mbit/sec	15,0	1	14,9	15,2	15,1
802.11g 18Mbit/sec			14,9	15,0	15,2
802.11g 24Mbit/sec	15,0	1	14,8	15,1	15,2
802.11g 36Mbit/sec			14,9	15,1	15,0
802.11g 48Mbit/sec	15,0	1	15,0	15,0	15,2
802.11g 54Mbit/sec			15,0	15,0	15,2

¹ Measured output values were provided by the customer.

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4 Test equipment

4.1 Dosimetric system

SAR measurements were made using the DASY4 professional system (software version 4.7, Build 80) 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 DAE	433	2010-01
E-field probe ES3DV3	3062	2010-01
Dipole Validation Kit, D835V2	4d039	2010-01
Dipole Validation Kit, D1900V2	5d002	2011-01
Dipole Validation Kit, D1900V2	5d073	2010-01
Dipole Validation Kit, D2450V2	745	2011-01

4.2 Additional equipment

Description	Inventory Number	Due Date
Signal generator R&S SML 03	20007666	2010-03
Directional coupler	S/N: 063	2010-03
Power meter R&S NRVD	483920	2010-03
Power sensor R&S NRV-Z5	2333	2010-03
Power sensor R&S NRV-Z5	2334	2010-03
Network analyzer hp 8753 C	421671	2010-03
Dielectric probe kit HP85070D	20000053	Self. cal
R&S CMU200	S/N: 837024/091	2010-03

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5 Electrical parameters on the tissue simulating liquid

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

f [MHz]	Tissue type	Measured / Recommended	Dielectric Parameters		Density
			ϵ_r	σ [S/m]	ρ [g/cm ³]
835	Head	Measured, 2009-11-09	40.91	0.86	1.00
		Recommended	41.50	0.90	1.00
835	Body	Measured, 2009-11-25	52.90	0.97	1.00
		Recommended	55.20	0.97	1.00
1900	Head	Measured, 2009-11-17	38.80	1.43	1.00
		Recommended	40.00	1.40	1.00
1900	Body	Measured, 2009-11-20	53.00	1.59	1.00
		Recommended	53.30	1.52	1.00
2450	Head	Measured, 2009-12-03	39.00	1.84	1.00
		Recommended	39.20	1.80	1.00
2450	Body	Measured, 2009-12-07	51.40	2.00	1.00
		Recommended	52.70	1.95	1.00

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6 System accuracy verification

A system accuracy verification of the DASY4 was performed using the dipole validation kit listed in section 4.1. The system verification test was conducted on the same day as the measurement of the DUT. The ambient humidity and temperature of test facility were kept between the range 30-70% and 20.0-25.0 °C respectively. RF noise had been measured in liquid when all RF equipment in lab was switched off. Measured value was 0.00015 mW/g in 1g mass.

f [MHz]	Tissue type	Measured / Reference	SAR [W/kg] 1g	Dielectric Parameters		Density	Liquid T[°C]
				ϵ_r	σ [S/m]	ρ [g/cm ³]	
835	Head	Measured, 2009-11-09	9.91	40.91	0.86	1.00	20.3
		Reference	9.68	41.50	0.90	1.00	22.0
835	Body	Measured, 2009-11-25	10.00	52.90	0.97	1.00	22.7
		Reference	9.41	55.20	0.97	1.00	22.0
1900	Head	Measured, 2009-11-17	40.8	38.80	1.43	1.00	20.1
		Reference	38.3	40.00	1.40	1.00	22.0
1900	Body	Measured, 2009-11-20	41.4	53.00	1.59	1.00	21.0
		Reference	37.9	53.30	1.52	1.00	22.0
2450	Head	Measured, 2009-12-03	54,1	39,00	1,84	1.00	21,0
		Reference	52,9	39,20	1,80	1.00	23.0
2450	Body	Measured, 2009-12-07	54,2	51,4	2,00	1.00	20.0
		Reference	52,1	52,7	1,95	1.00	23.0

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7 SAR measurement uncertainty

SAR measurement uncertainty evaluation for Sony Ericsson PY7A3880058 (U5i) phone According to IEEE 1528

Uncertainty Component	Uncer. (%)	Prob Dist.	Div.	C _i	1g mass
Measurement System					
Probe Calibration	±5.9	N	1	1	±5.9
Axial Isotropy	±4.7	R	√3	0.7	±1.9
Spherical Isotropy	±9.6	R	√3	0.7	±3.9
Boundary effect	±1.0	R	√3	1	±0.6
Probe linearity	±4.7	R	√3	1	±2.7
Detection limit	±1.0	R	√3	1	±0.6
Readout electronics	±0.3	N	1	1	±0.3
Response time	±0.8	R	√3	1	±0.5
Integration time	±2.6	R	√3	1	±1.5
RF Ambient Conditions	±3.0	R	√3	1	±1.7
Mech. Constraints of robot	±0.4	R	√3	1	±0.2
Probe positioning	±2.9	R	√3	1	±1.7
Extrap, interpolation and integration	±1.0	R	√3	1	±0.6
Measurement System Uncertainty					±8.4
Test Sample Related					
Device positioning	±3.5	N	1	1	±3.5
Device holder uncertainty	±3.5	N	1	1	±3.5
Power drift	±5.0	R	√3	1	±2.9
Test Sample Related Uncertainty					±5.5
Phantom and Tissue Parameters					
Phantom uncertainty	±4.0	R	√3	1	±2.3
Liquid conductivity (measured)	±2.5	R	1	0.64	±1.6
Liquid conductivity (target)	±5.0	R	√3	0.64	±1.8
Liquid Permittivity (measured)	±2.5	R	1	0.6	±1.5
Liquid Permittivity (target)	±5.0	R	√3	0.6	±1.7
Phantom and Tissue Parameters Uncertainty					±4.1
Combined standard uncertainty					±10.8
Extended standard uncertainty (k=2)					±21.6

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8 Test results

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

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

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

Band	Channel	Measured output power ¹ [dBm]	Position	Liquid T [°C]	Measured SAR [W/kg]	
					Left-hand 1g mass	Right-hand 1g mass
GSM 850	128	33,1	Cheek	20,3	0,49	0,55
			Tilt	20,3	-	-
	190	33,1	Cheek	20,3	0,77	0,83
			Tilt	20,3	0,39	0,39
	251	33,1	Cheek	20,3	0,68	0,74
			Tilt	20,3	-	-
GSM 1900	512	30,6	Cheek	20,1	0,92	0,55
			Tilt	20,1	-	-
	661	30,5	Cheek	20,1	1,02	0,75
			Tilt	20,1	0,37	0,32
	810	30,5	Cheek	20,1	1,31	0,70
			Tilt	20,1	-	-
WLAN	1	19,0	Cheek	21,0	0,92	0,60
			Tilt	21,0	-	-
	6	19,1	Cheek	21,0	0,61	0,49
			Tilt	21,0	0,53	0,47
	11	19,2	Cheek	21,0	0,74	0,58
			Tilt	21,0	-	-

Table 1: SAR measurement result for Sony Ericsson PY7A3880058 telephone at highest possible output power. Measured towards the head.

¹ Measured output values were provided by the customer.

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Note: Theoretical SAR value (worst case) for multiple transmitters (collateral transmitters) was **2.23** for Cheek Left phone position combine GSM1900 and Wlan. SAR to peak Location (dxy) has been measured and Antenna pair SAR to Peak Location Separation Ratio have been calculated like following:

$$d_{xy} = 7.5 \text{ cm}$$

$$\text{Ratio} = 2.23 / 7.5 = 0.297 < 0.3$$

The Volume scan SAR measurement has not been made according demand in KDB 648474 FCC document.

Band	Channel	Measured output power ¹ [dBm]	Position / Mode	Liquid T [°C]	Measured SAR [W/kg] 1g mass
GSM 850	128	31,1	Back / GPRS	22,7	0,78
		33,1	Back / BT	22,7	0,47
		31,1	Front / GPRS	22,7	0,60
		26,8	Back / EDGE	22,7	0,14
	190	33,1	Back / PHF	22,7	0,31
		31,1	Back / GPRS	22,7	0,73
		33,1	Back / BT	22,7	0,64
	251	31,1	Back / GPRS	22,7	0,70
		33,1	Back / BT	22,7	0,60
GSM 1900	512	28,7	Back / GPRS	21,0	0,42
		30,6	Back / PHF	21,0	0,34
	661	28,6	Back / GPRS	21,0	0,51
		30,5	Back / PHF	21,0	0,42
	810	28,6	Back / GPRS	21,0	0,64
		30,5	Back / PHF	21,0	0,51
		28,6	Front / GPRS	21,0	0,53
		26,9	Back / EDGE	21,0	0,16
WLAN	1	19,0	Front	20,0	0,09
		19,1	Back	20,0	0,03
	6	19,1	Front	20,0	0,05
		19,2	Front	20,0	0,05

Table 2: SAR measurement result for Sony Ericsson PY7A3880058 telephone at highest possible output power. Measured towards the body.

¹ Measured output values were provided by the customer.

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- [1] R.Plicanic. "SAR Measurement Specification of Wireless Handsets". Sony Ericsson SAR Test Laboratory internal document GUG/N 03:141
- [2] FCC. "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields: Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radio Frequency Emissions." Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97- 01).
- [3] IEEE. "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques." Std 1528-2003. June. 2003.
- [4] IEC 62209-1. "Procedure to measure the Specific Absorption Rate (SAR) for hand-held mobile wireless devices in the frequency range of 300 MHz to 3 GHz". February 2005.
- [5] FCC KDB648474. "SAR Evaluation Consideration for HANDSETS with Multiple Transmitters and Antenna", April 2008.
- [6] 3GPP TS 34.121 Universal Mobile Telecommunications System (UMTS); Terminal Conformance Specification, Radio Transmission and Reception (FDD).
- [7] FCC KDB248227. "SAR measurement procedure for 802.11 a/b/g Transmitters", May 2007.

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9.3 Attachments

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

Date/Time: 2009-11-09 09:57:11

Test Laboratory: Sony Ericsson Mobile Communications AB

System Performance Check 835MHz Head 091109**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d039**

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

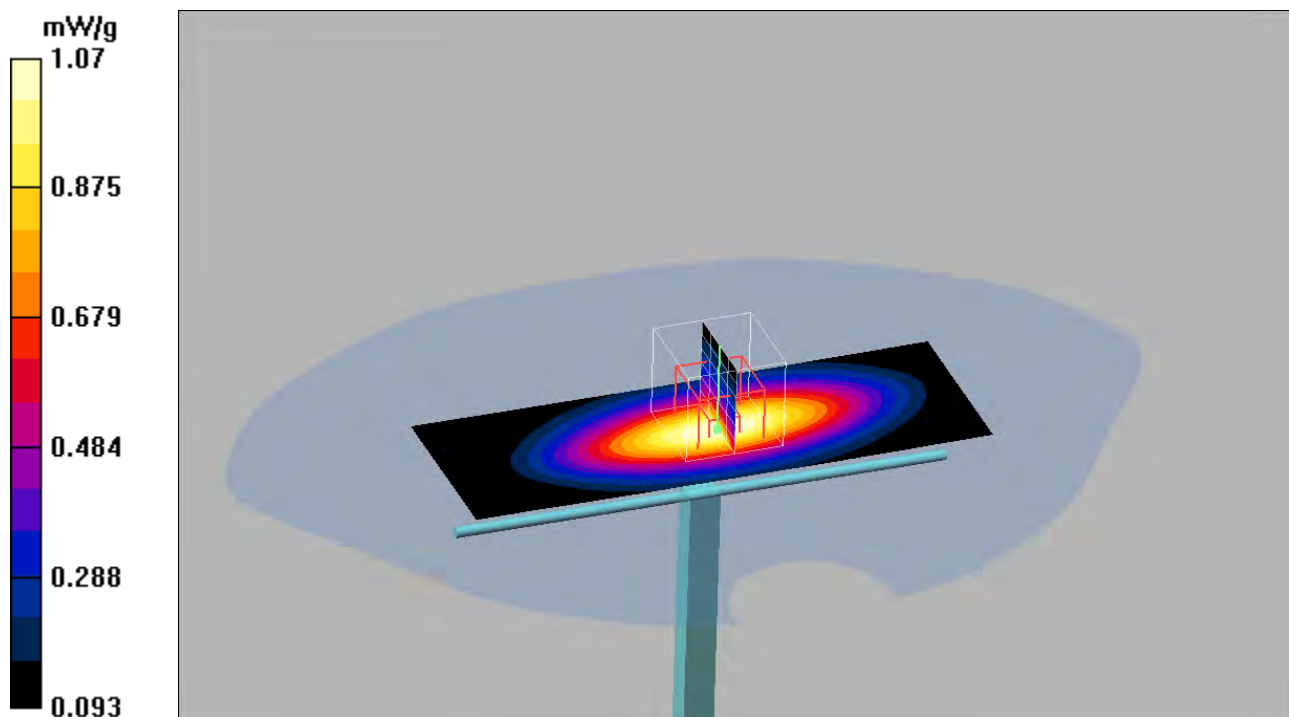
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.859 \text{ mho/m}$; $\epsilon_r = 40.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(5.77, 5.77, 5.77); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 2; Type: SAM QD 000 P40 CB; Serial: TP-1396
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

835 MHz Dipole/Area Scan (61x171x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 1.07 mW/g **835 MHz Dipole/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 35.5 V/m ; Power Drift = -0.008 dB Peak SAR (extrapolated) = 1.47 W/kg **SAR(1 g) = 0.991 mW/g ; SAR(10 g) = 0.647 mW/g** Maximum value of SAR (measured) = 1.07 mW/g 

Date/Time: 2009-11-25 11:07:57

Test Laboratory: Sony Ericsson Mobile Communications AB

System Performance Check 835MHz Body 091125**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d039**

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

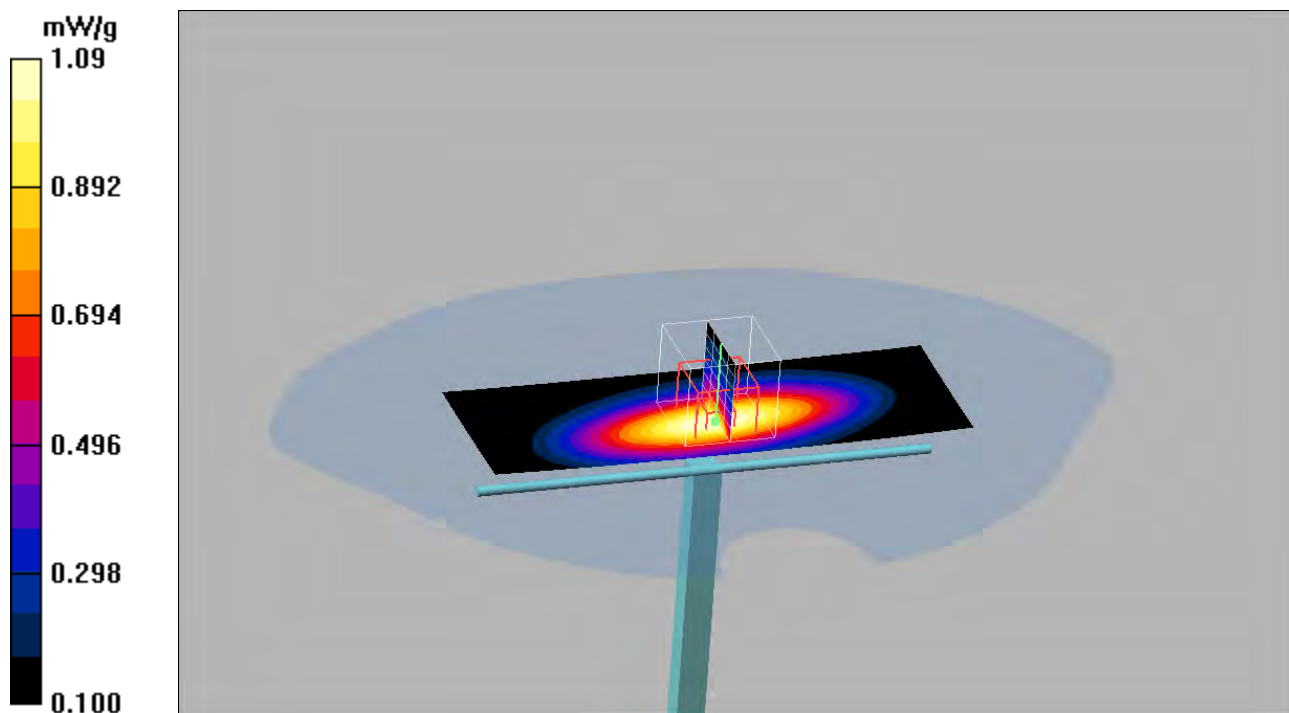
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.967 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(5.76, 5.76, 5.76); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

835 MHz Dipole/Area Scan (61x171x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 1.09 mW/g **835 MHz Dipole/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 32.1 V/m ; Power Drift = -0.042 dB Peak SAR (extrapolated) = 1.46 W/kg **SAR(1 g) = 1 mW/g ; SAR(10 g) = 0.662 mW/g** Maximum value of SAR (measured) = 1.09 mW/g 

Date/Time: 2009-11-17 10:45:05

Test Laboratory: Sony Ericsson Mobile Communications AB

System Performance Check 1900MHz Head 091117**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d002**

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

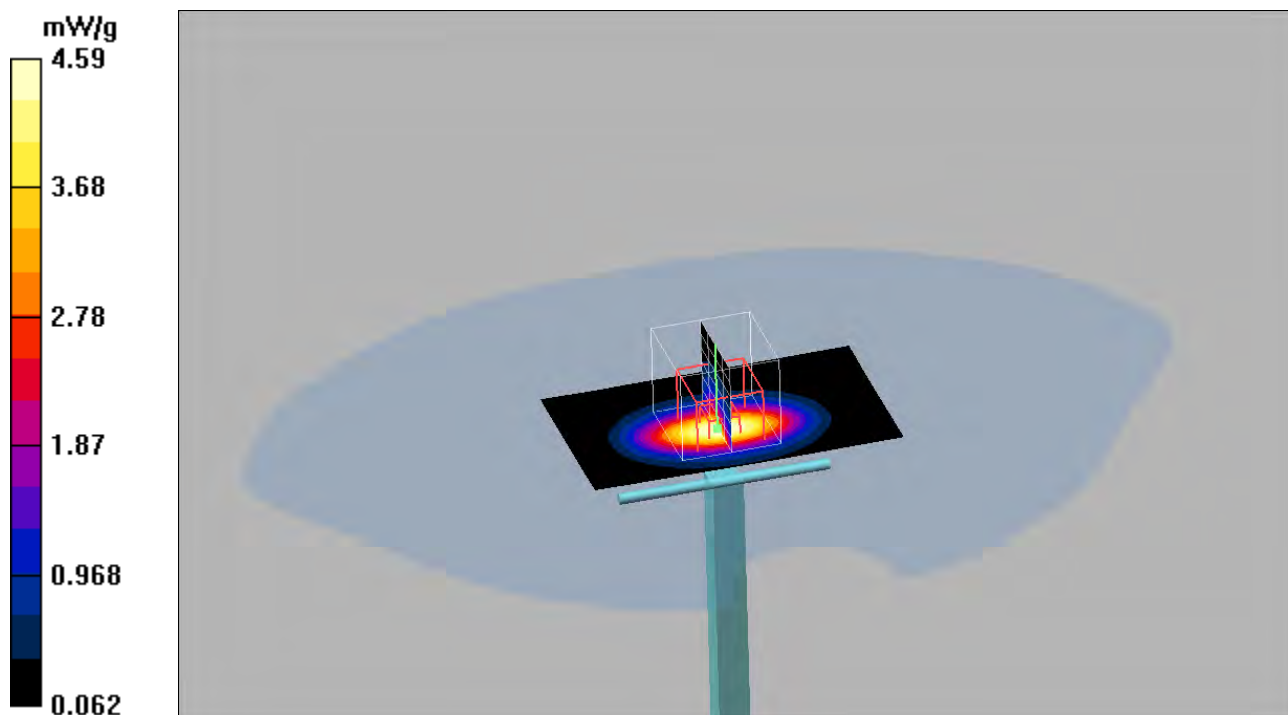
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(4.69, 4.69, 4.69); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

1900 MHz Dipole/Area Scan (61x101x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 4.70 mW/g **1900 MHz Dipole/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 52.1 V/m ; Power Drift = -0.089 dB Peak SAR (extrapolated) = 7.70 W/kg **SAR(1 g) = 4.08 mW/g ; SAR(10 g) = 2.09 mW/g** Maximum value of SAR (measured) = 4.59 mW/g 

Date/Time: 2009-11-20 08:55:36

Test Laboratory: Sony Ericsson Mobile Communications AB

System Performance Check 1900MHz Body 091119**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d037**

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

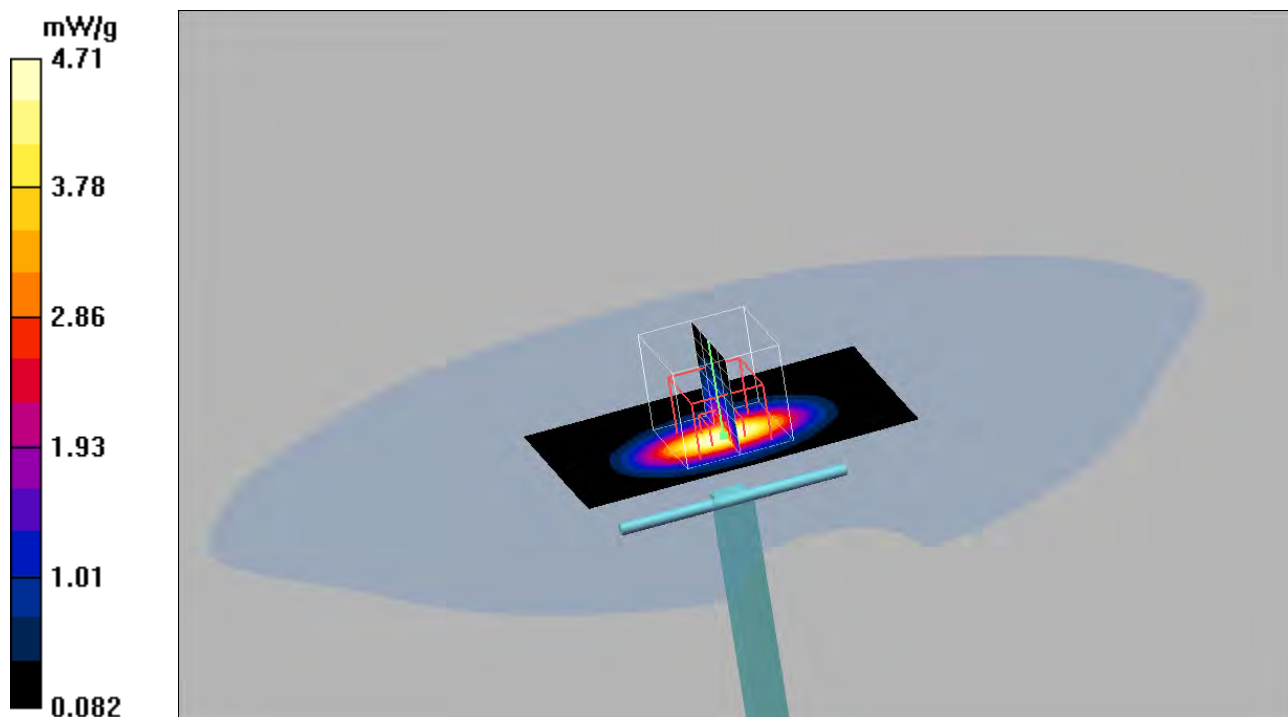
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.59 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(4.34, 4.34, 4.34); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

1900 MHz Dipole/Area Scan (61x101x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 4.85 mW/g **1900 MHz Dipole/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 51.0 V/m ; Power Drift = -0.046 dB Peak SAR (extrapolated) = 7.18 W/kg **SAR(1 g) = 4.14 mW/g ; SAR(10 g) = 2.16 mW/g** Maximum value of SAR (measured) = 4.71 mW/g 

Date/Time: 2009-12-03 11:38:52

Test Laboratory: Sony Ericsson Mobile Communications AB

System Performance Check 2450MHz Head 091203**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 745**

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

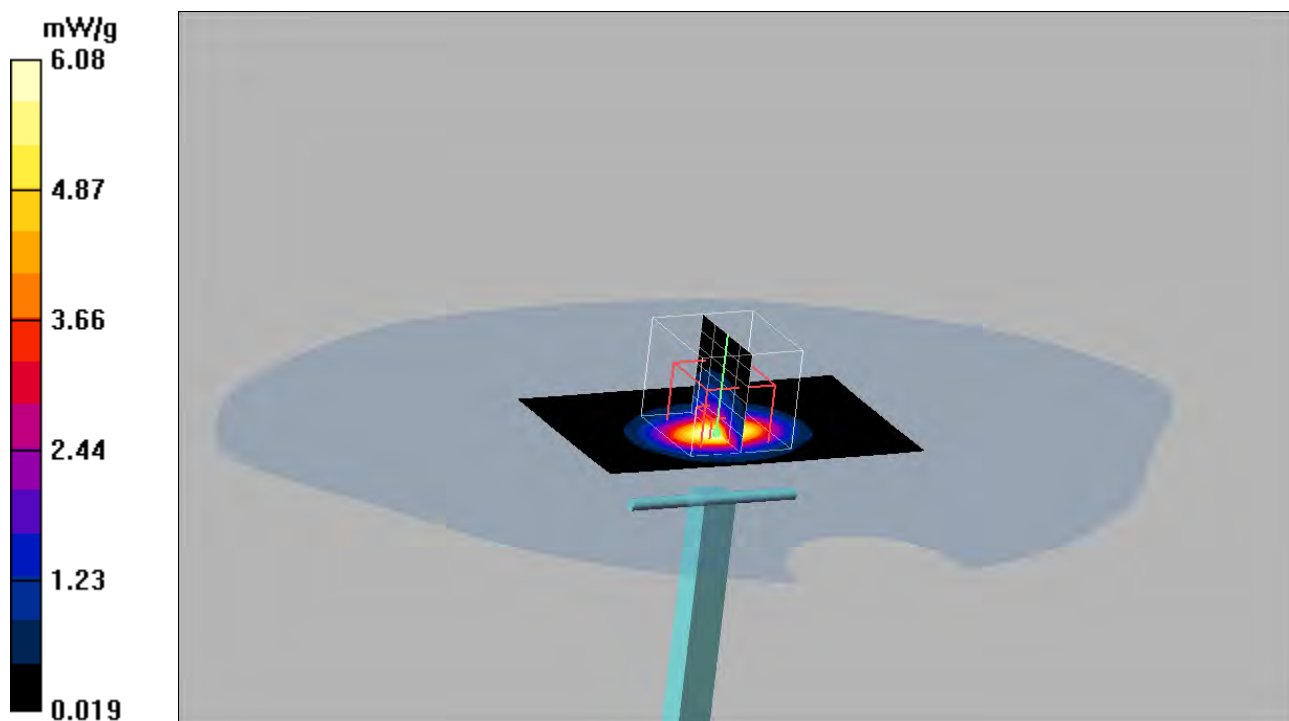
Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.85 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(4.23, 4.23, 4.23); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

2450 MHz Dipole/Area Scan (61x101x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 6.40 mW/g **2450 MHz Dipole/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 54.3 V/m ; Power Drift = 0.119 dB Peak SAR (extrapolated) = 12.0 W/kg **SAR(1 g) = 5.41 mW/g ; SAR(10 g) = 2.42 mW/g** Maximum value of SAR (measured) = 6.08 mW/g 

Date/Time: 2009-11-09 10:48:53

Test Laboratory: Sony Ericsson Mobile Communications AB

GSM850 Left Cheek 091109**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641**

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.866$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(5.77, 5.77, 5.77); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 2; Type: SAM QD 000 P40 CB; Serial: TP-1396
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Mid Cheek/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.837 mW/g

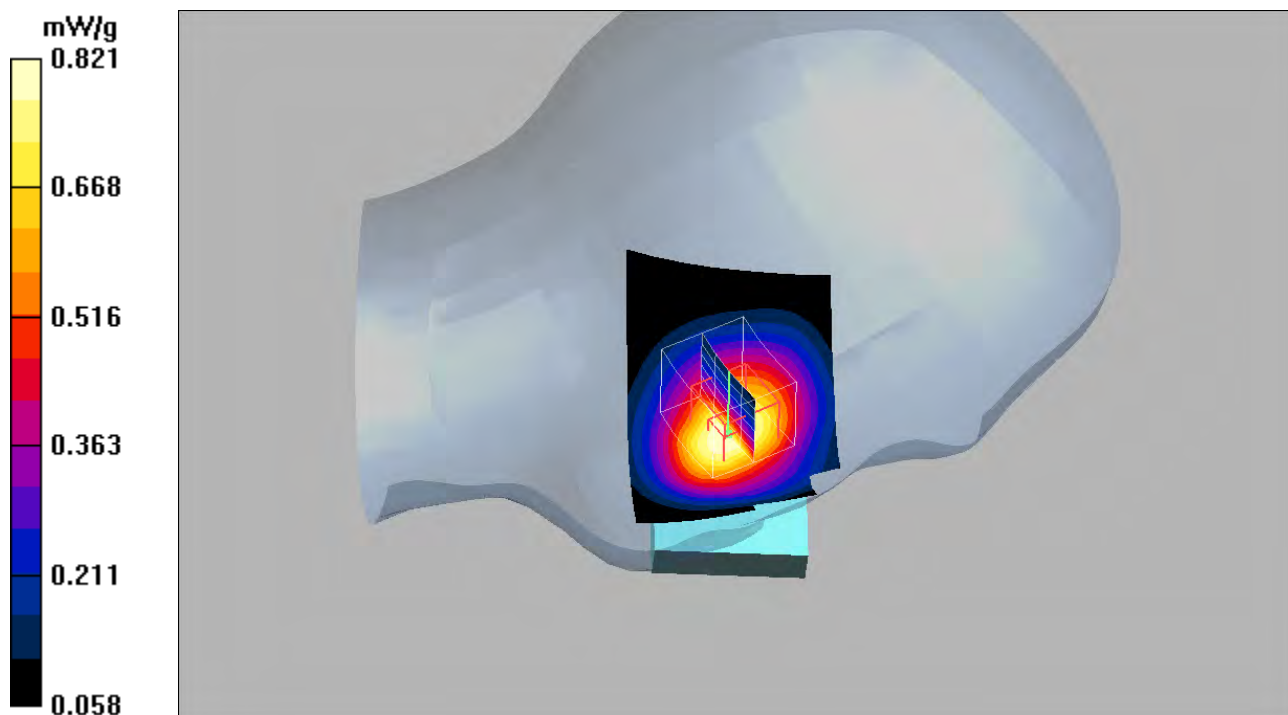
Mid Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.9 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.768 mW/g; SAR(10 g) = 0.535 mW/g

Maximum value of SAR (measured) = 0.821 mW/g



Date/Time: 2009-11-09 11:20:32

Test Laboratory: Sony Ericsson Mobile Communications AB

GSM850 Left Tilt 091109**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641**

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.866$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(5.77, 5.77, 5.77); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 2; Type: SAM QD 000 P40 CB; Serial: TP-1396
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Mid Tilt/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.410 mW/g

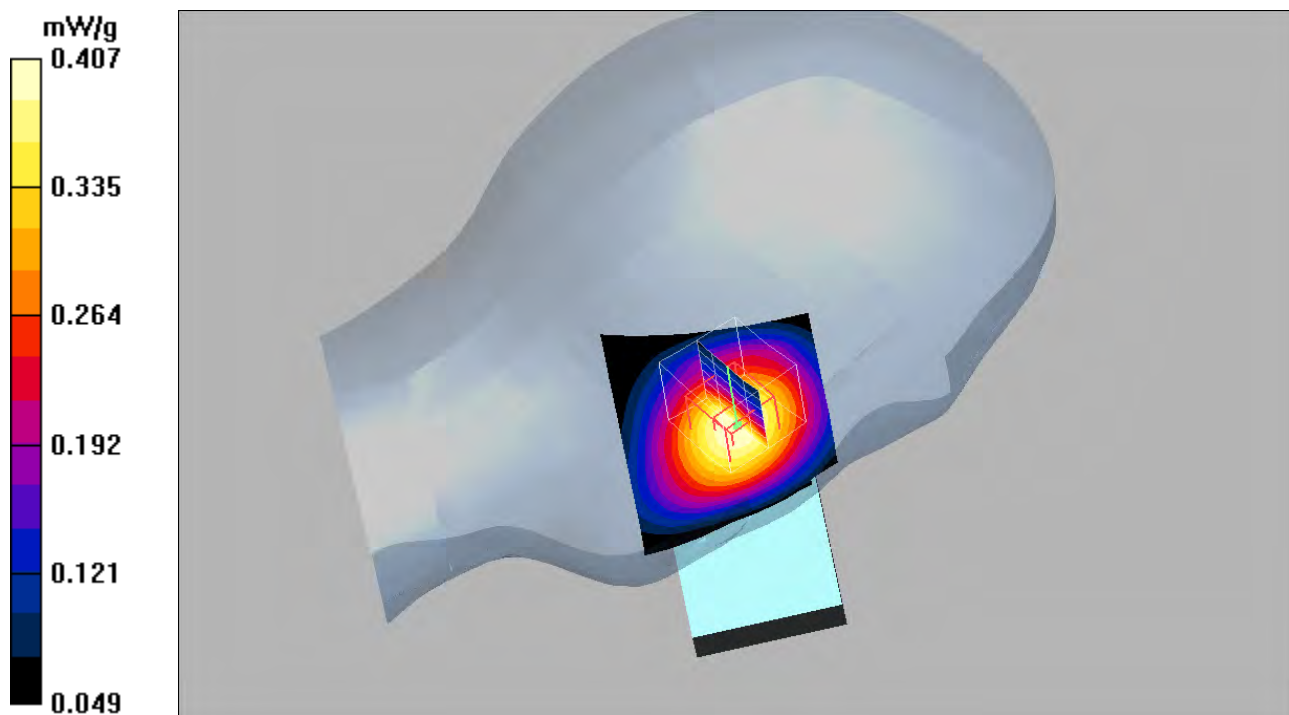
Mid Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.3 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 0.486 W/kg

SAR(1 g) = 0.387 mW/g; SAR(10 g) = 0.289 mW/g

Maximum value of SAR (measured) = 0.407 mW/g



Date/Time: 2009-11-09 12:47:29

Test Laboratory: Sony Ericsson Mobile Communications AB

GSM850 Right Cheek 091109**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641**

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.866$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(5.77, 5.77, 5.77); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 2; Type: SAM QD 000 P40 CB; Serial: TP-1396
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Mid Cheek/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.892 mW/g

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

Reference Value = 31.7 V/m; Power Drift = 0.003 dB

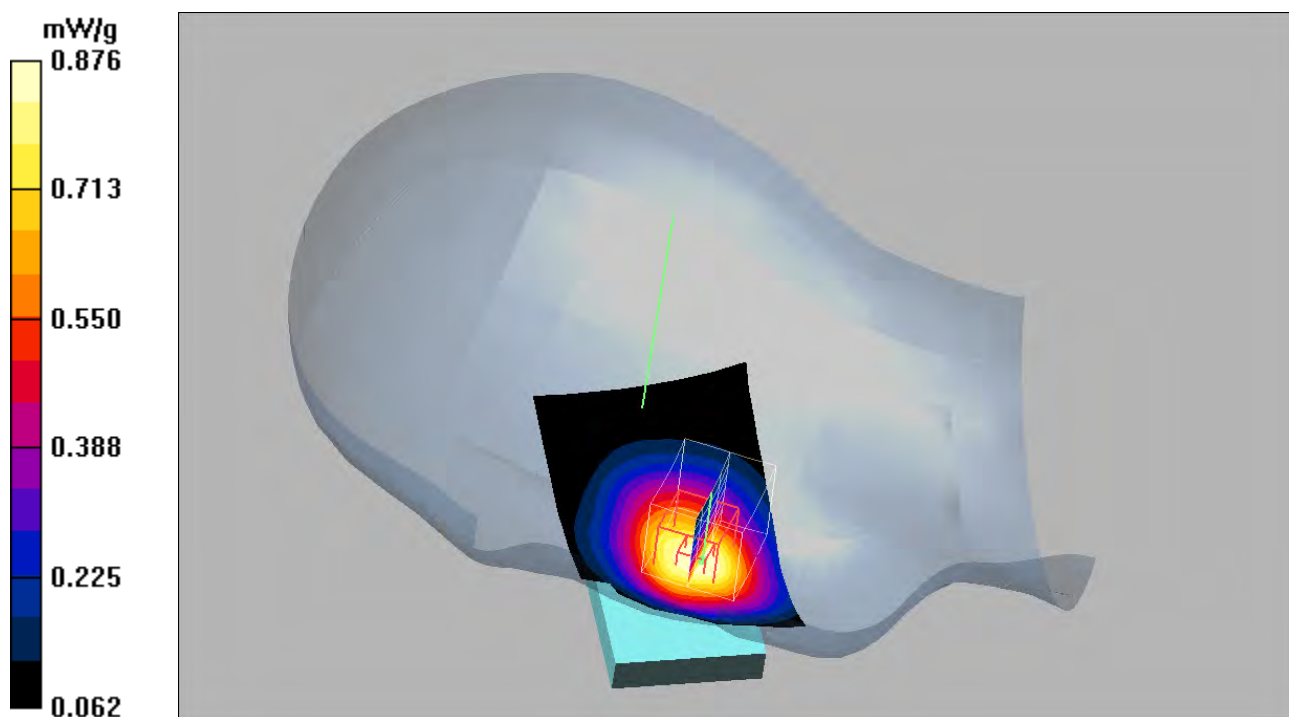
Peak SAR (extrapolated) = 1.09 W/kg

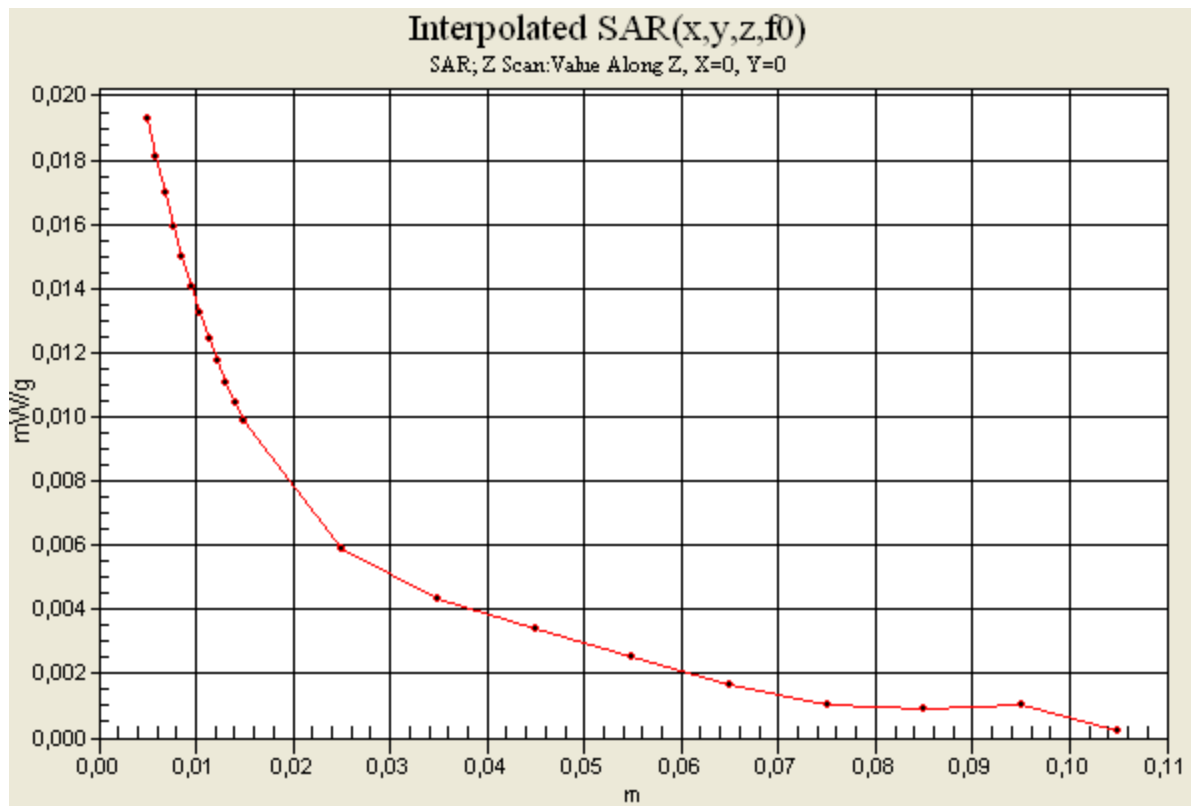
SAR(1 g) = 0.832 mW/g; SAR(10 g) = 0.590 mW/g

Maximum value of SAR (measured) = 0.876 mW/g

Mid Cheek/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (interpolated) = 0.019 mW/g





Date/Time: 2009-11-09 13:06:30

Test Laboratory: Sony Ericsson Mobile Communications AB

GSM850 Right Tilt 091109**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641**

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.866$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(5.77, 5.77, 5.77); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 2; Type: SAM QD 000 P40 CB; Serial: TP-1396
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Mid Tilt/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.413 mW/g

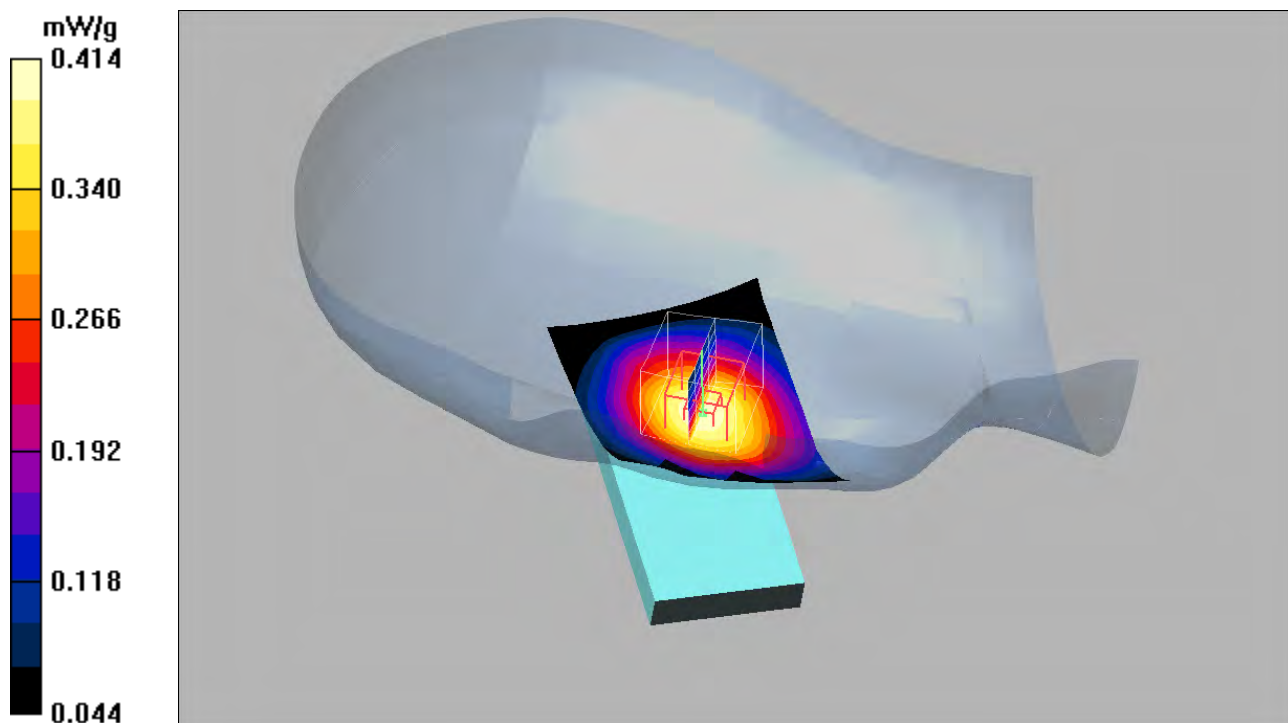
Mid Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.9 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.392 mW/g; SAR(10 g) = 0.291 mW/g

Maximum value of SAR (measured) = 0.414 mW/g



Date/Time: 2009-11-25 12:31:54

Test Laboratory: Sony Ericsson Mobile Communications AB

GSM850 Body GPRS 2TS 091125**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641**

Communication System: GSM850 GPRS2TX; Frequency: 824.2 MHz; Duty Cycle: 1:4.15

Medium parameters used: $f = 825$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(5.76, 5.76, 5.76); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Low, GPRS 2TX/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.850 mW/g

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

Reference Value = 20.4 V/m; Power Drift = -0.076 dB

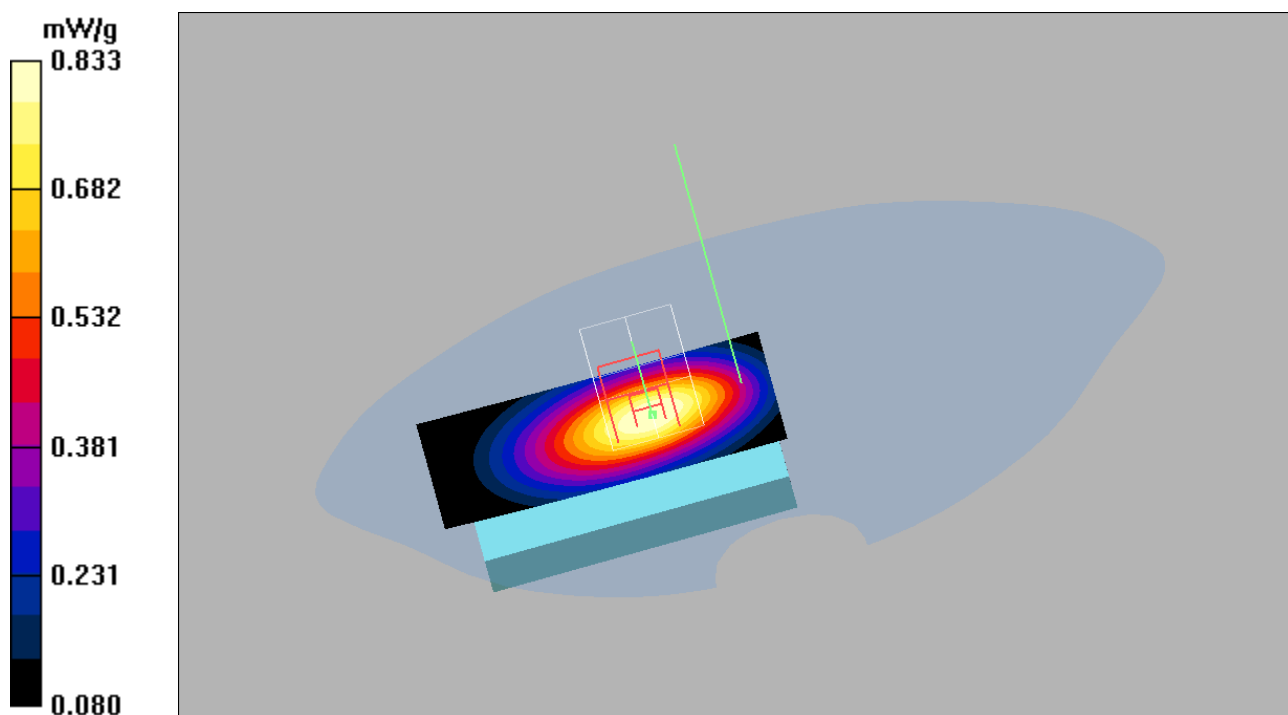
Peak SAR (extrapolated) = 1.03 W/kg

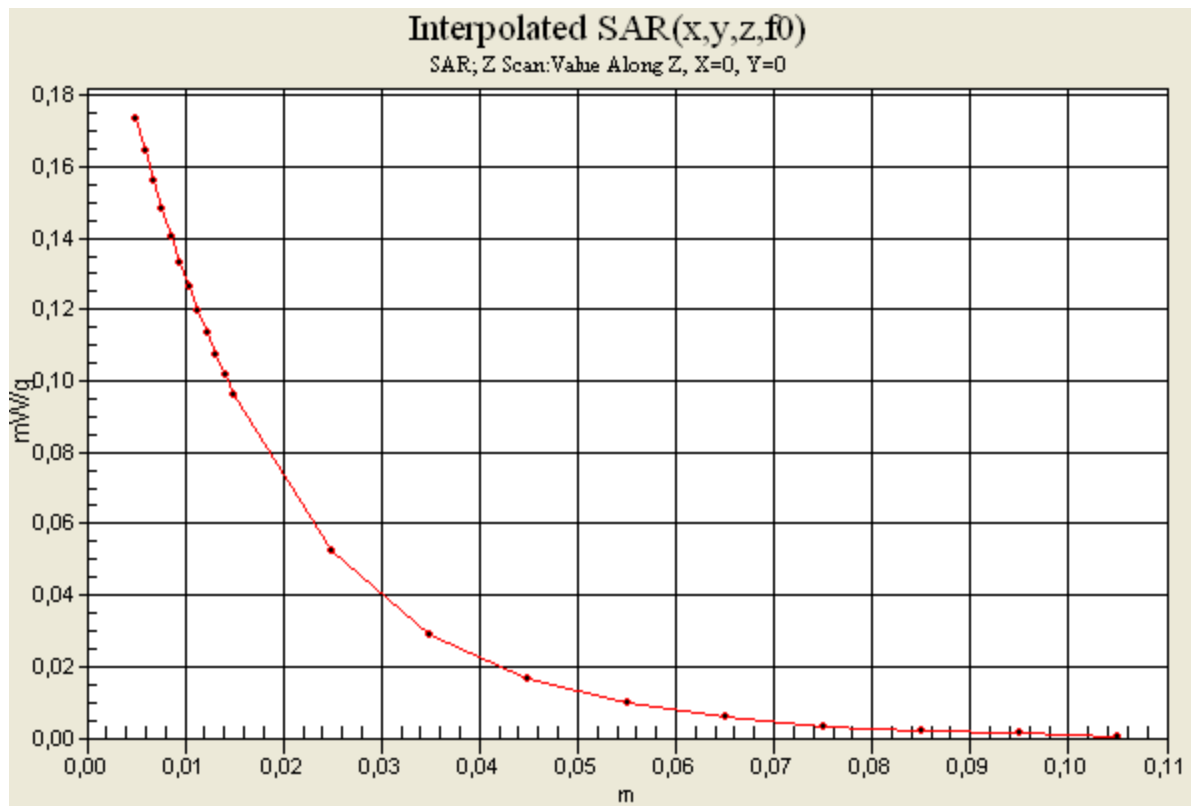
SAR(1 g) = 0.782 mW/g; SAR(10 g) = 0.562 mW/g

Maximum value of SAR (measured) = 0.833 mW/g

Low, GPRS 2TX/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=10mm

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





Date/Time: 2009-11-25 14:18:16

Test Laboratory: Sony Ericsson Mobile Communications AB

GSM850 Body GPRS 2TS Front 091125**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641**

Communication System: GSM850 GPRS2TX; Frequency: 824.2 MHz; Duty Cycle: 1:4.15

Medium parameters used: $f = 825$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(5.76, 5.76, 5.76); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Low, Front, GPRS 2TX/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.640 mW/g

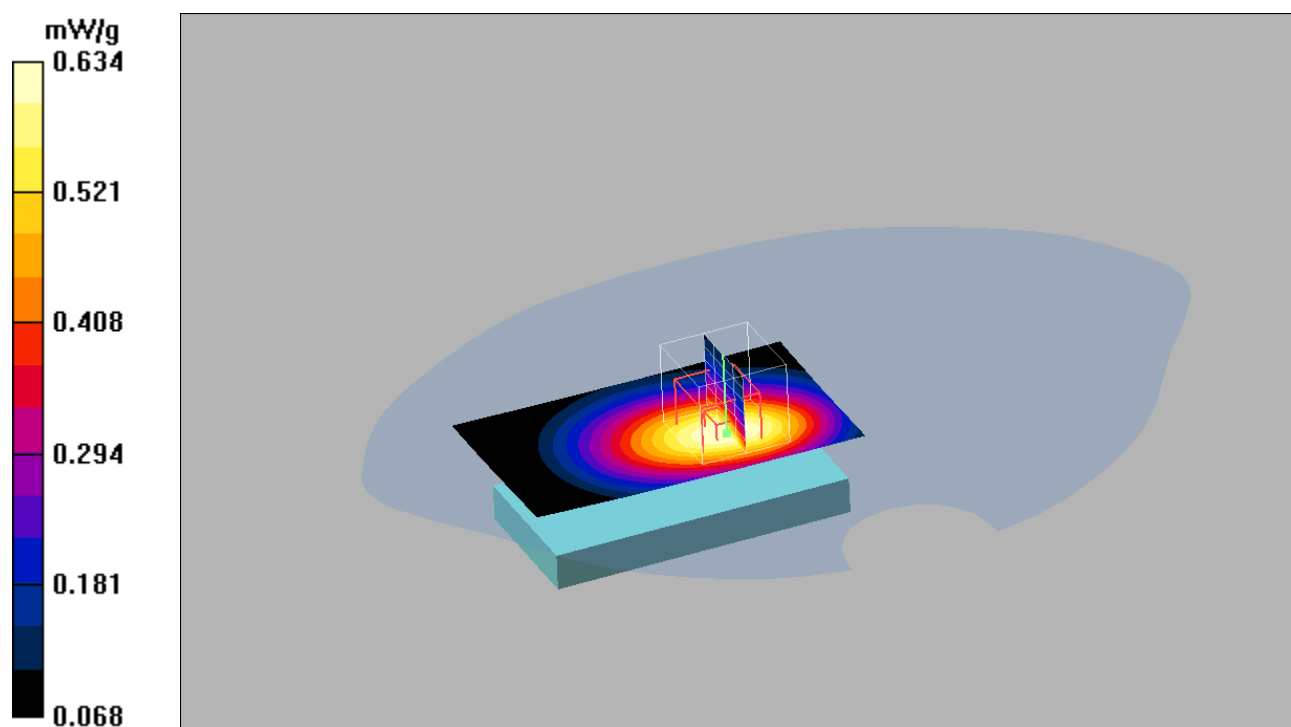
Low, Front, GPRS 2TX/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.7 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 0.772 W/kg

SAR(1 g) = 0.597 mW/g; SAR(10 g) = 0.431 mW/g

Maximum value of SAR (measured) = 0.634 mW/g



Date/Time: 2009-11-25 15:24:08

Test Laboratory: Sony Ericsson Mobile Communications AB

GSM850 Body BT 091125**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641**

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.967$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(5.76, 5.76, 5.76); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Mid, BT/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.676 mW/g

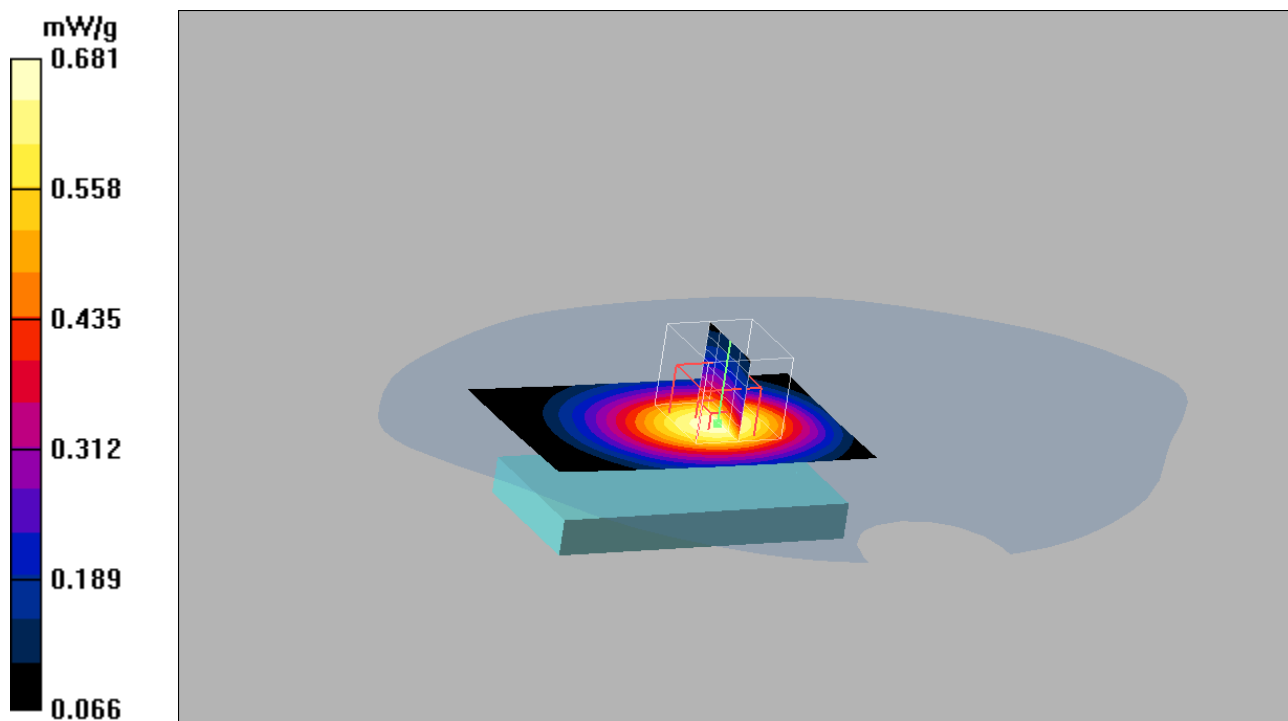
Mid, BT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.0 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 0.860 W/kg

SAR(1 g) = 0.641 mW/g; SAR(10 g) = 0.456 mW/g

Maximum value of SAR (measured) = 0.681 mW/g



Date/Time: 2009-11-25 14:48:38

Test Laboratory: Sony Ericsson Mobile Communications AB

GSM850 Body PHF 091125**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641**

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

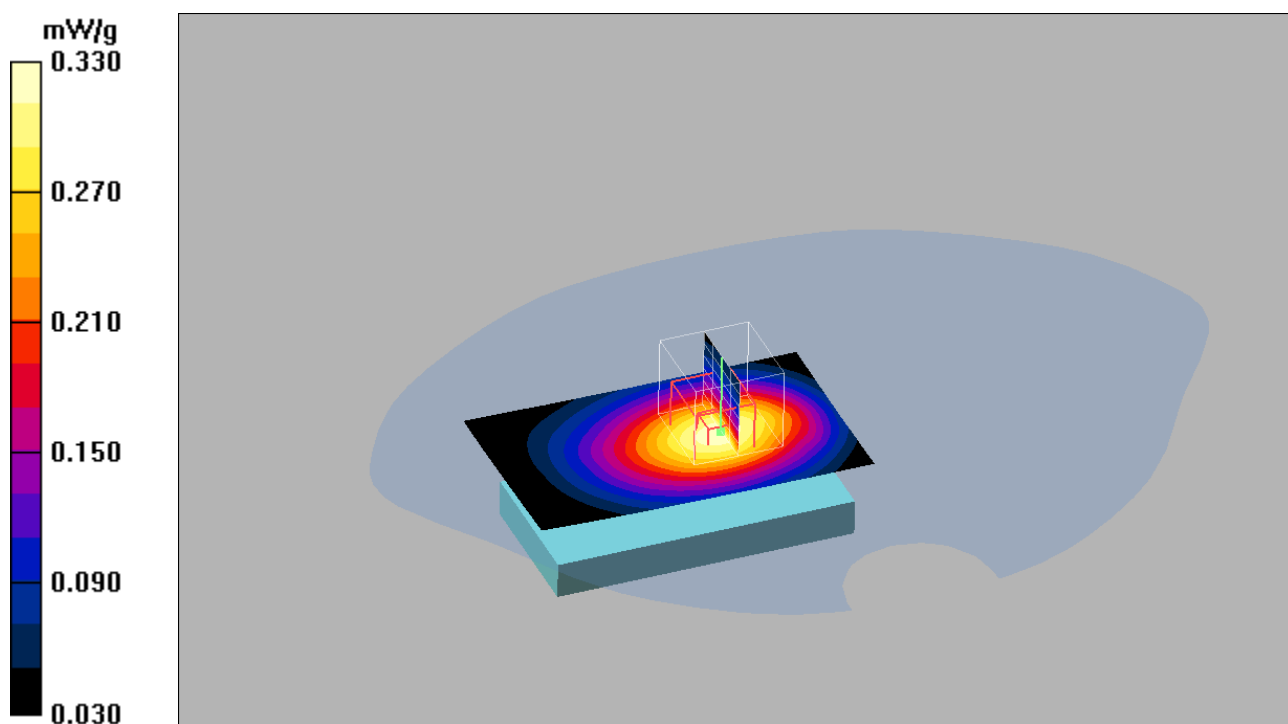
Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.964 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(5.76, 5.76, 5.76); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Low, PHF/Area Scan (71x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.325 mW/g **Low, PHF/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 13.3 V/m ; Power Drift = 0.033 dB Peak SAR (extrapolated) = 0.420 W/kg **SAR(1 g) = 0.310 mW/g ; SAR(10 g) = 0.220 mW/g** Maximum value of SAR (measured) = 0.330 mW/g 

Date/Time: 2009-11-17 13:11:00

Test Laboratory: Sony Ericsson Mobile Communications AB

GSM1900 Left Cheek 091117**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641**

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section. Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(4.69, 4.69, 4.69); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

High Cheek/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.45 mW/g

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

Reference Value = 27.5 V/m; Power Drift = -0.061 dB

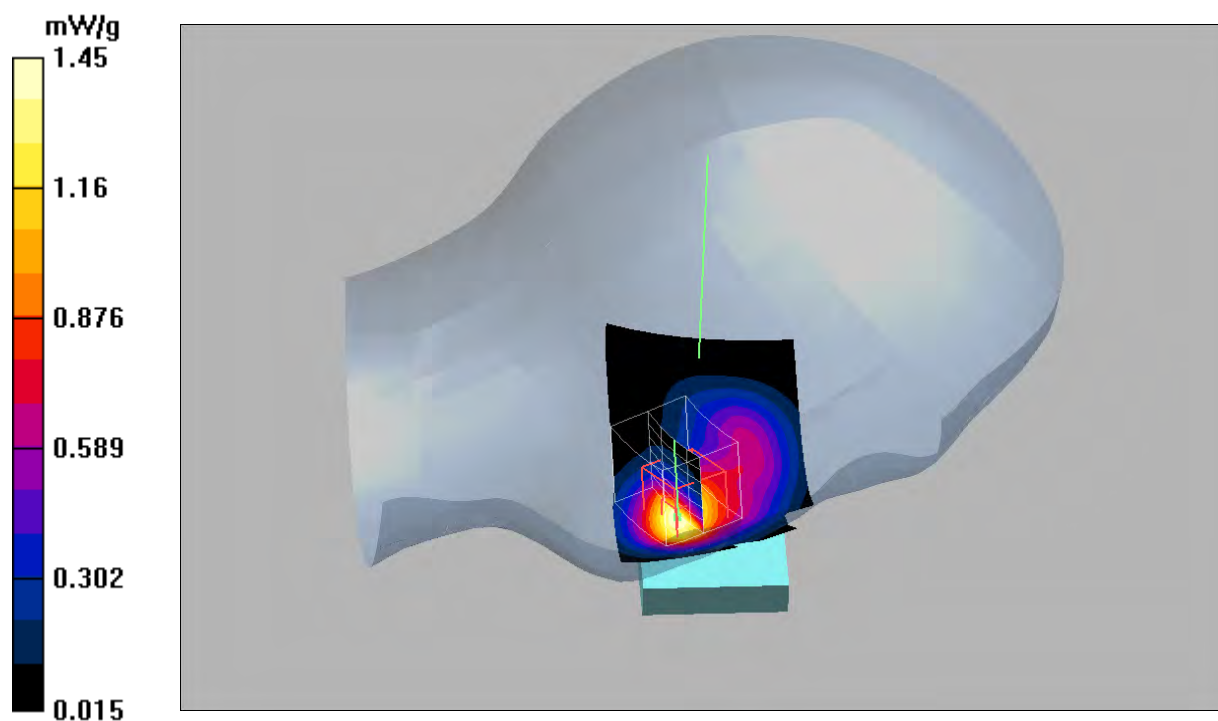
Peak SAR (extrapolated) = 2.22 W/kg

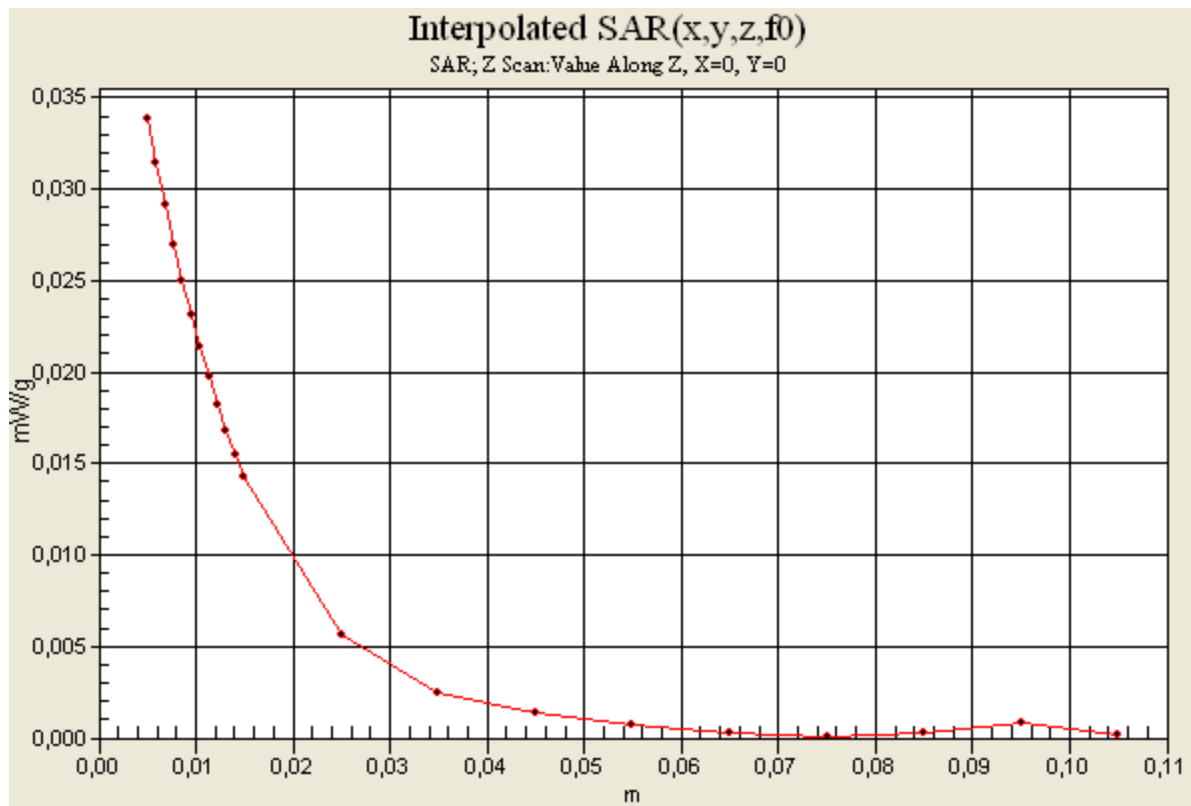
SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.738 mW/g

Maximum value of SAR (measured) = 1.45 mW/g

High Cheek/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (interpolated) = 0.034 mW/g





Date/Time: 2009-11-17 12:29:59

Test Laboratory: Sony Ericsson Mobile Communications AB

GSM1900 Left Tilt 091117**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(4.69, 4.69, 4.69); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Mid Tilt/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.430 mW/g

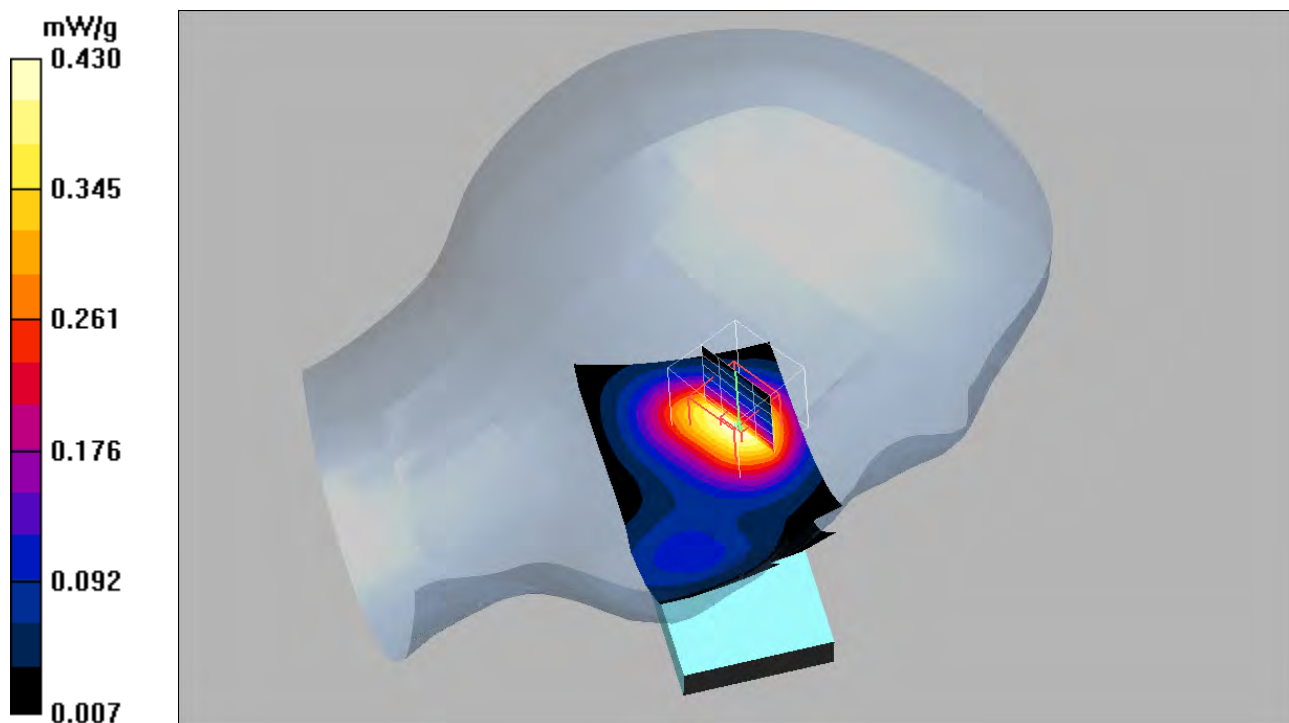
Mid Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.28 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 0.603 W/kg

SAR(1 g) = 0.396 mW/g; SAR(10 g) = 0.243 mW/g

Maximum value of SAR (measured) = 0.430 mW/g



Date/Time: 2009-11-17 13:27:35

Test Laboratory: Sony Ericsson Mobile Communications AB

GSM1900 Right Cheek 091117**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641**

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

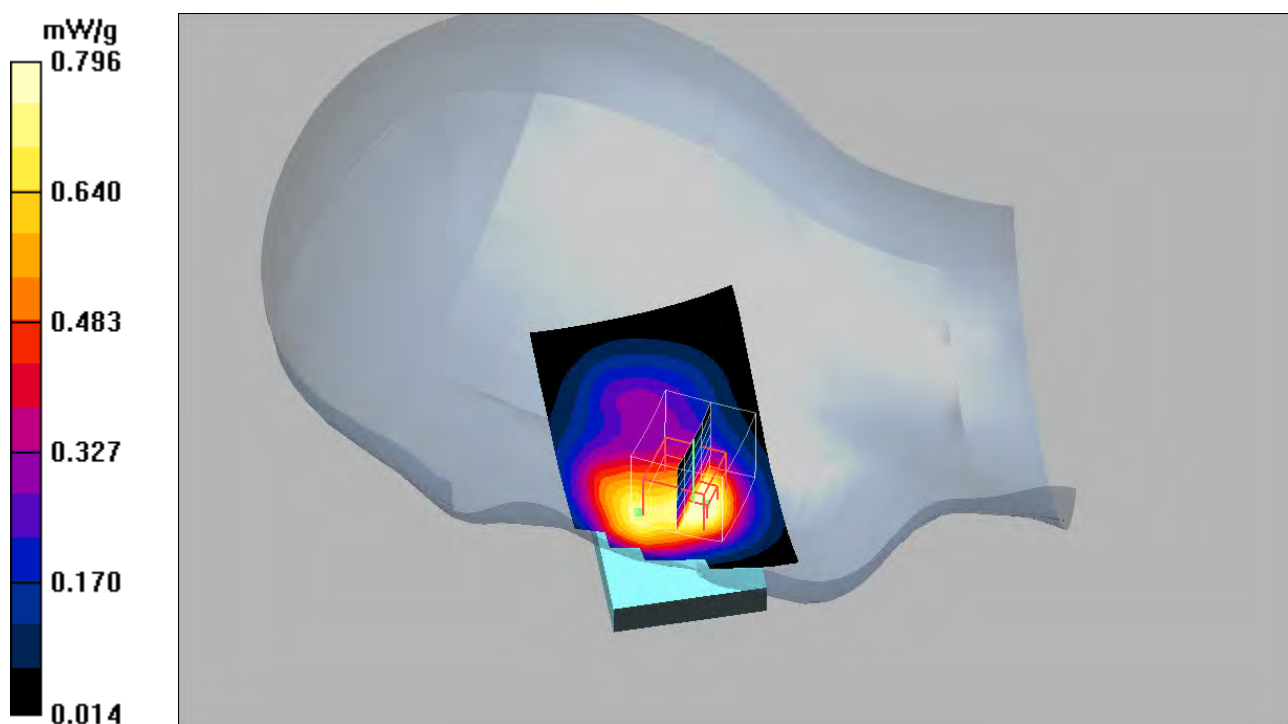
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(4.69, 4.69, 4.69); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Mid Cheek/Area Scan (71x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.823 mW/g **Mid Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 22.6 V/m ; Power Drift = 0.002 dB Peak SAR (extrapolated) = 1.12 W/kg **SAR(1 g) = 0.746 mW/g ; SAR(10 g) = 0.462 mW/g** Maximum value of SAR (measured) = 0.796 mW/g 

Date/Time: 2009-11-17 13:54:08

Test Laboratory: Sony Ericsson Mobile Communications AB

GSM1900 Right Tilt 091117**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(4.69, 4.69, 4.69); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Mid Tilt/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.349 mW/g

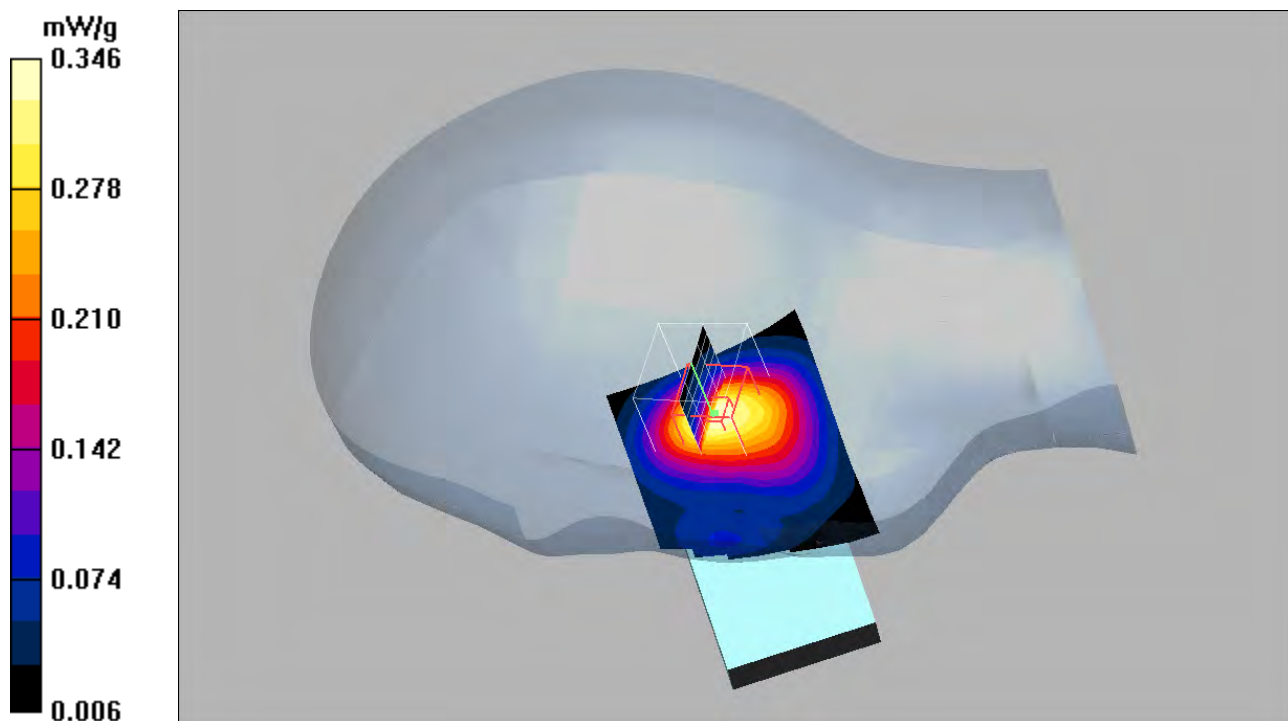
Mid Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.28 V/m; Power Drift = 0.175 dB

Peak SAR (extrapolated) = 0.497 W/kg

SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.194 mW/g

Maximum value of SAR (measured) = 0.346 mW/g



Date/Time: 2009-11-20 11:00:53

Test Laboratory: Sony Ericsson Mobile Communications AB
GSM1900 Body GPRS 2TS 091120

DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641

Communication System: GSM1900 GPRS2TX; Frequency: 1909.8 MHz; Duty Cycle: 1:4.15

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.61$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(4.34, 4.34, 4.34); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
 Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

High, GPRS 2TX/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.703 mW/g

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

Reference Value = 16.7 V/m; Power Drift = -0.005 dB

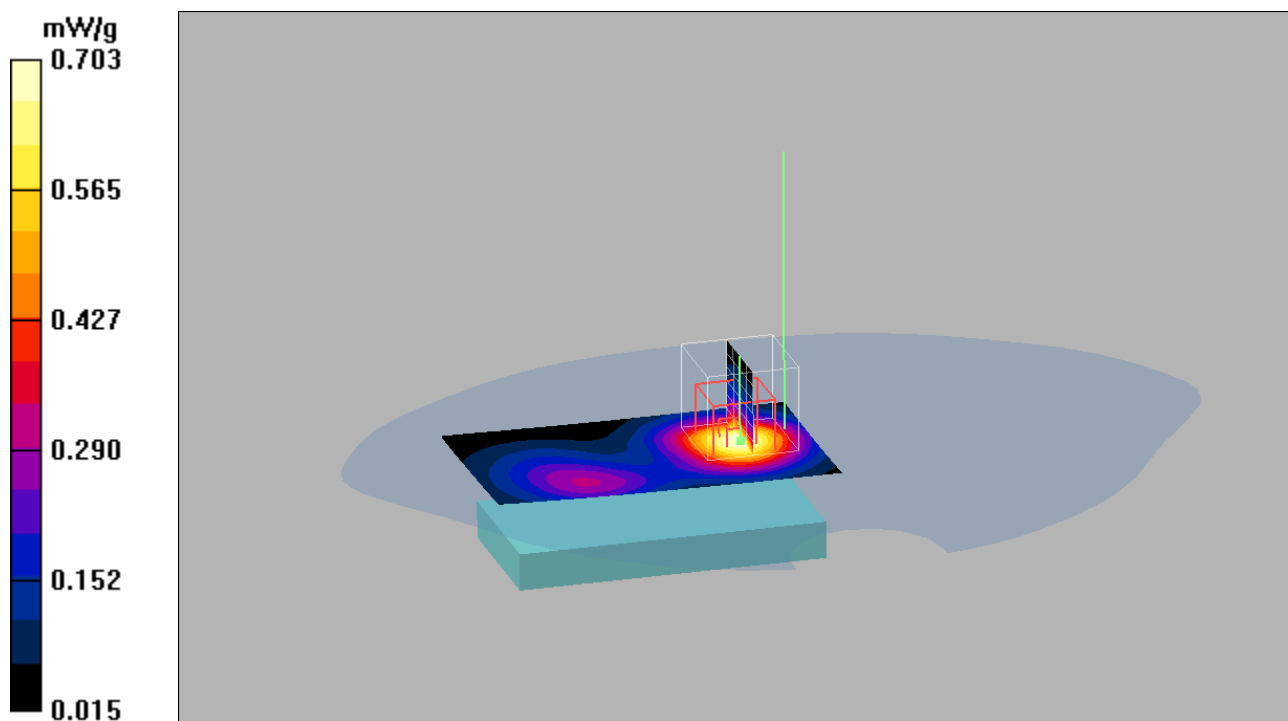
Peak SAR (extrapolated) = 1.00 W/kg

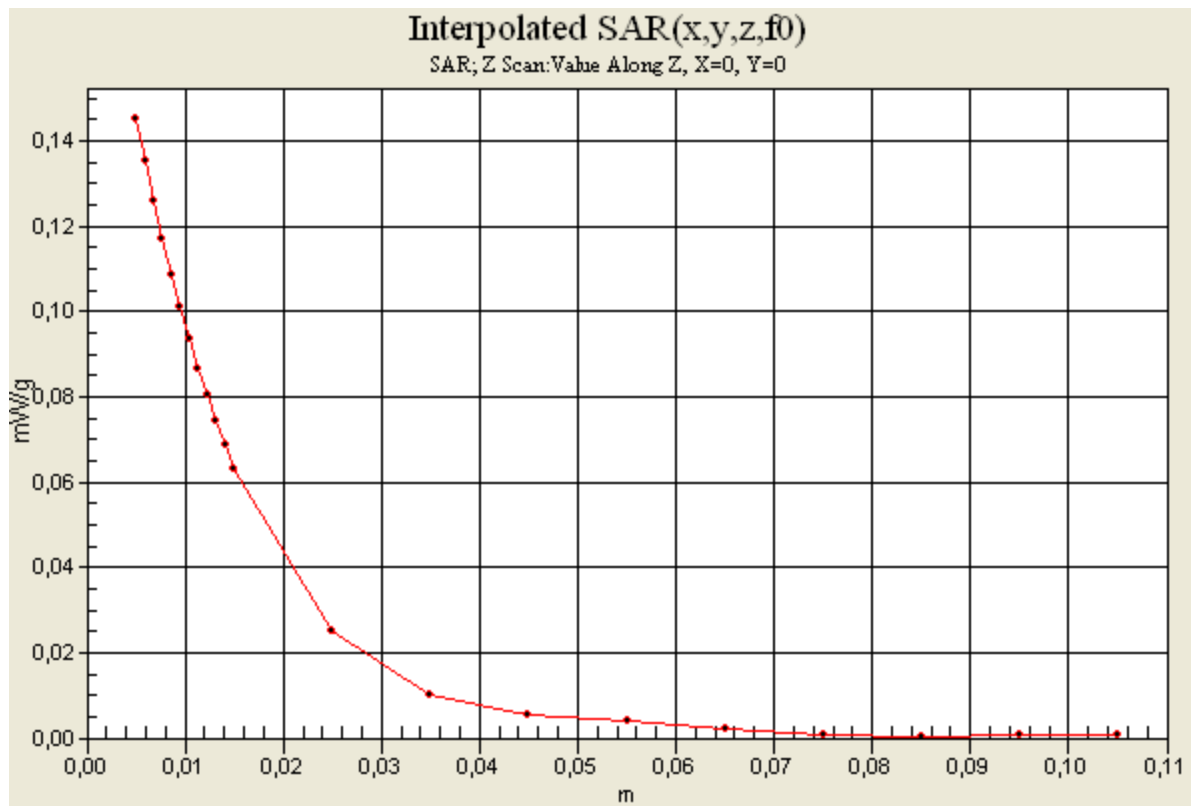
SAR(1 g) = 0.638 mW/g; SAR(10 g) = 0.379 mW/g

Maximum value of SAR (measured) = 0.703 mW/g

High, GPRS 2TX/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (interpolated) = 0.145 mW/g





Date/Time: 2009-11-20 12:57:32

Test Laboratory: Sony Ericsson Mobile Communications AB

GSM1900 Body GPRS 2TS Front 091120**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641**

Communication System: GSM1900 GPRS2TX; Frequency: 1909.8 MHz; Duty Cycle: 1:4.15

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.61$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(4.34, 4.34, 4.34); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

High, Front, GPRS 2TX/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.583 mW/g

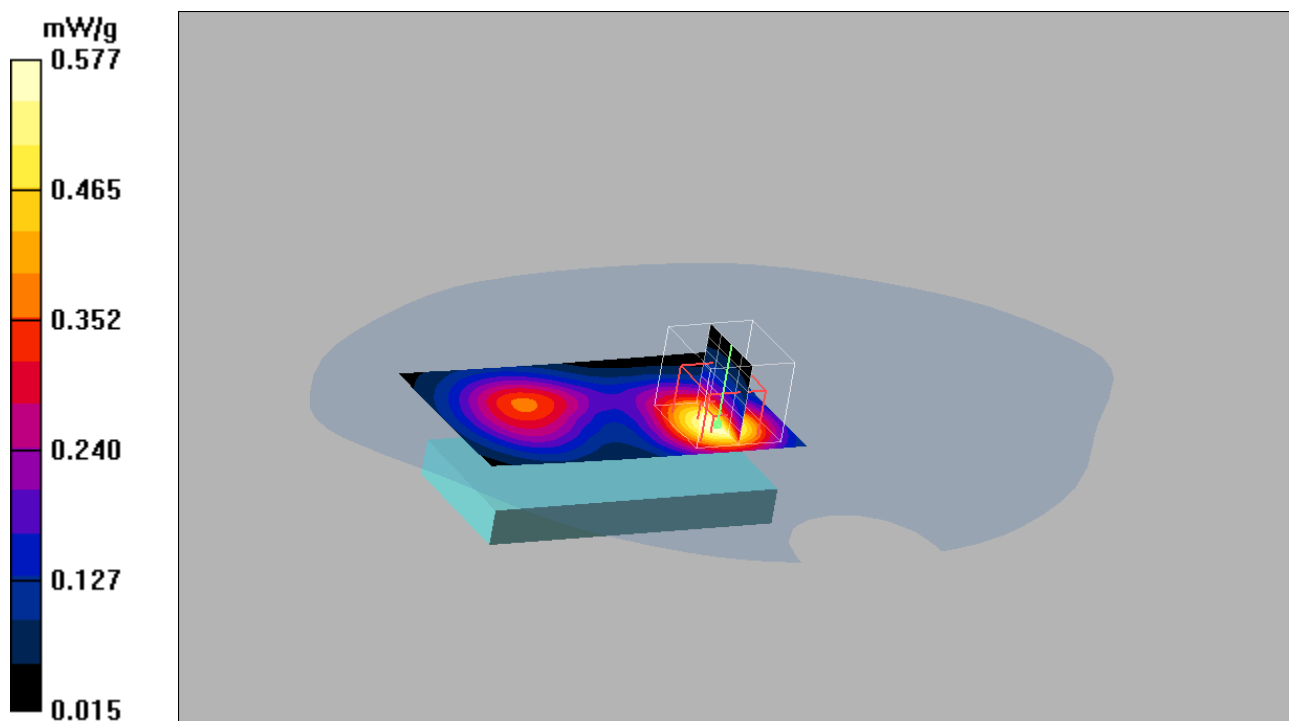
High, Front, GPRS 2TX/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.2 V/m; Power Drift = -0.115 dB

Peak SAR (extrapolated) = 0.819 W/kg

SAR(1 g) = 0.526 mW/g; SAR(10 g) = 0.313 mW/g

Maximum value of SAR (measured) = 0.577 mW/g



Date/Time: 2009-11-20 13:37:02

Test Laboratory: Sony Ericsson Mobile Communications AB

GSM1900 Body BT 091120**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641**

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.61$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(4.34, 4.34, 4.34); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

High, Speech BT/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.550 mW/g

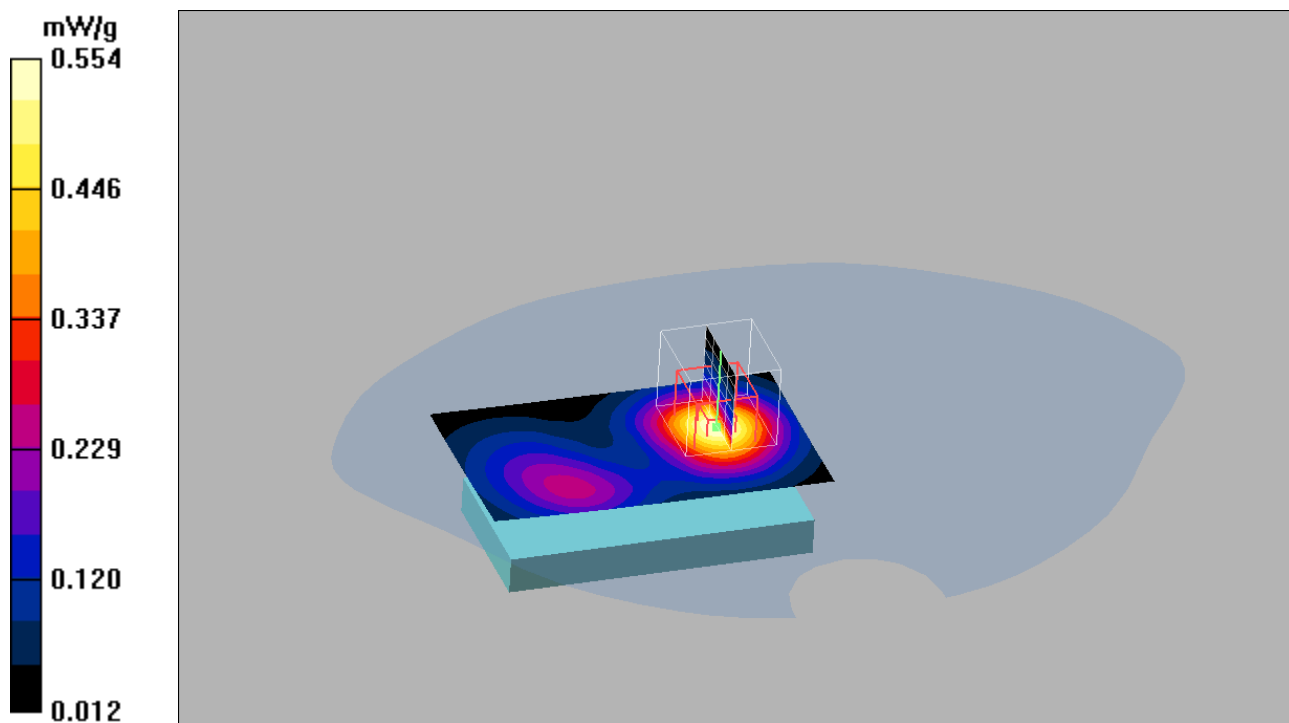
High, Speech BT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.0 V/m; Power Drift = 0.083 dB

Peak SAR (extrapolated) = 0.803 W/kg

SAR(1 g) = 0.505 mW/g; SAR(10 g) = 0.297 mW/g

Maximum value of SAR (measured) = 0.554 mW/g



Date/Time: 2009-11-20 13:18:00

Test Laboratory: Sony Ericsson Mobile Communications AB

GSM1900 Body PHF 091120**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16641**

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.61$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(4.34, 4.34, 4.34); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

High, Speech PHF/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.565 mW/g

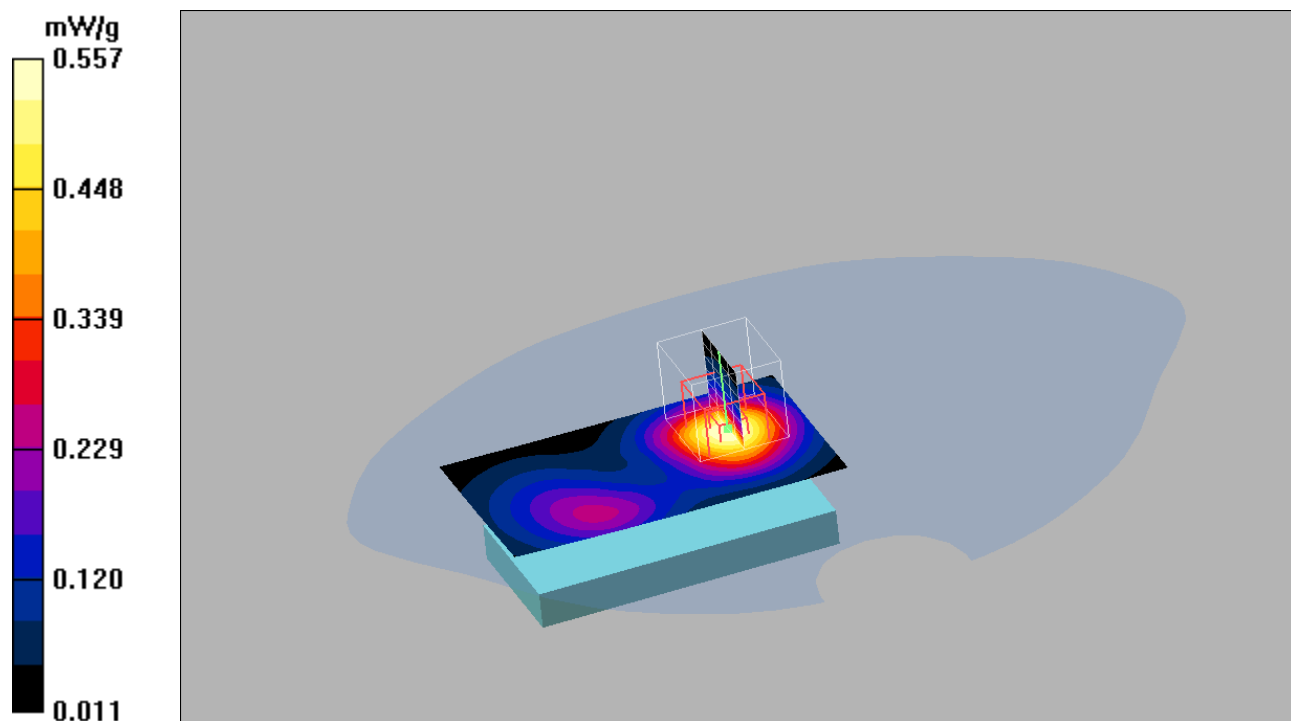
High, Speech PHF/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.8 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 0.797 W/kg

SAR(1 g) = 0.508 mW/g; SAR(10 g) = 0.300 mW/g

Maximum value of SAR (measured) = 0.557 mW/g



Date/Time: 2009-12-03 14:52:25

Test Laboratory: Sony Ericsson Mobile Communications AB

WLAN Left Cheek 091203**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16644**

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

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.8$ mho/m; $\epsilon_r = 39.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section. Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(4.23, 4.23, 4.23); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Low, Cheek/Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.05 mW/g

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

Reference Value = 19.8 V/m; Power Drift = -0.018 dB

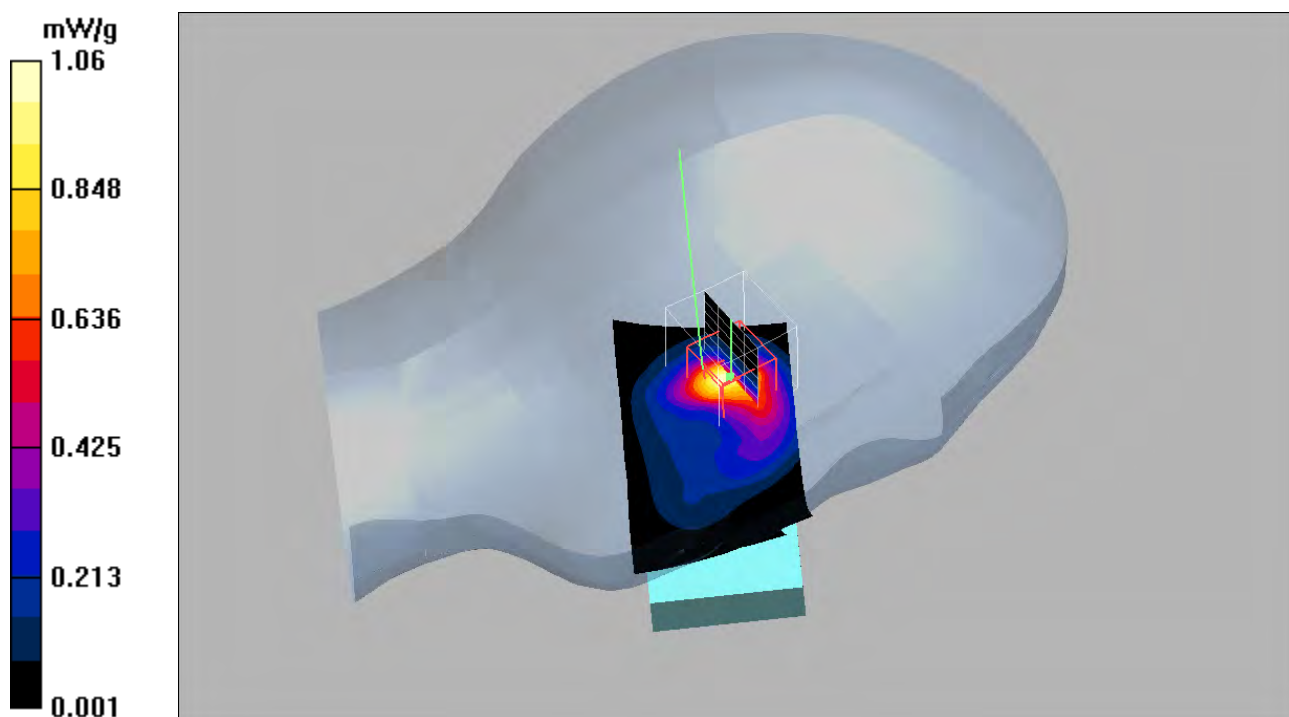
Peak SAR (extrapolated) = 2.33 W/kg

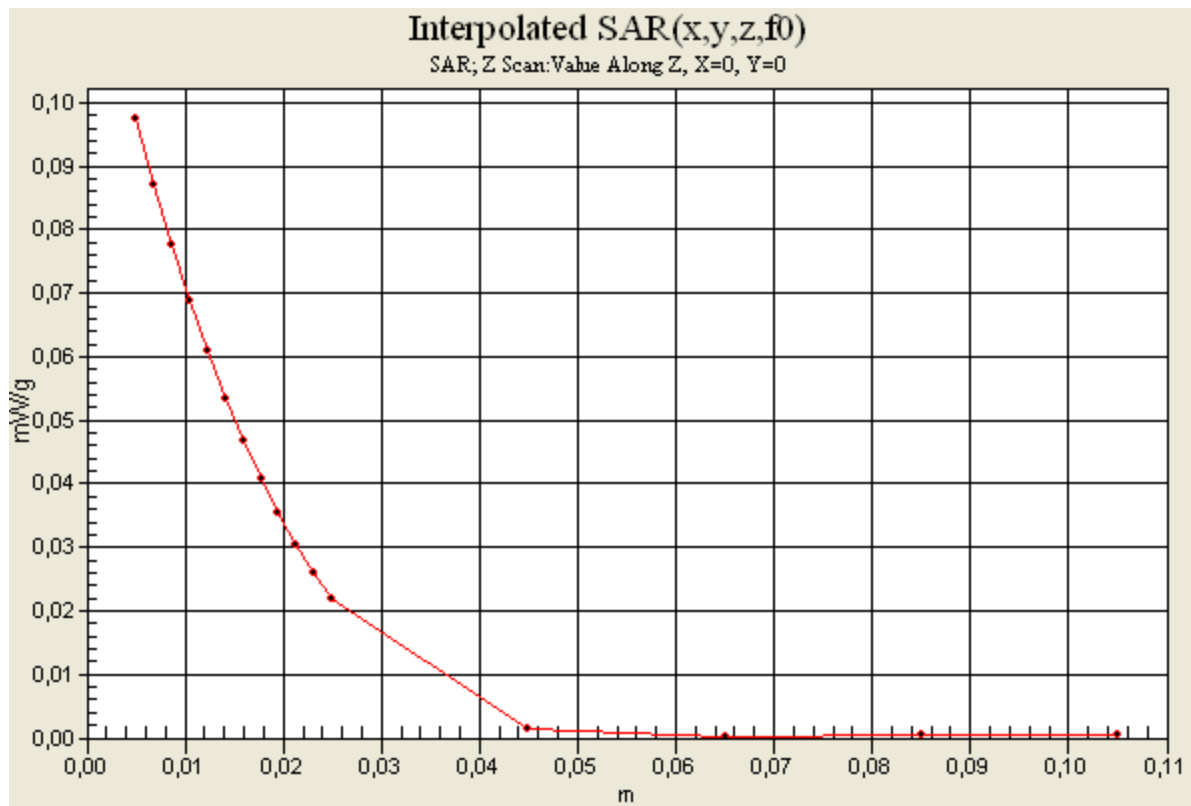
SAR(1 g) = 0.921 mW/g; SAR(10 g) = 0.391 mW/g

Maximum value of SAR (measured) = 1.06 mW/g

Low, Cheek/Z Scan (1x1x16): Measurement grid: dx=20mm, dy=20mm, dz=20mm

Maximum value of SAR (interpolated) = 0.097 mW/g





Date/Time: 2009-12-03 14:27:28

Test Laboratory: Sony Ericsson Mobile Communications AB

WLAN Left Tilt 091203**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16644**

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

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(4.23, 4.23, 4.23); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Mid, Tilt/Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.613 mW/g

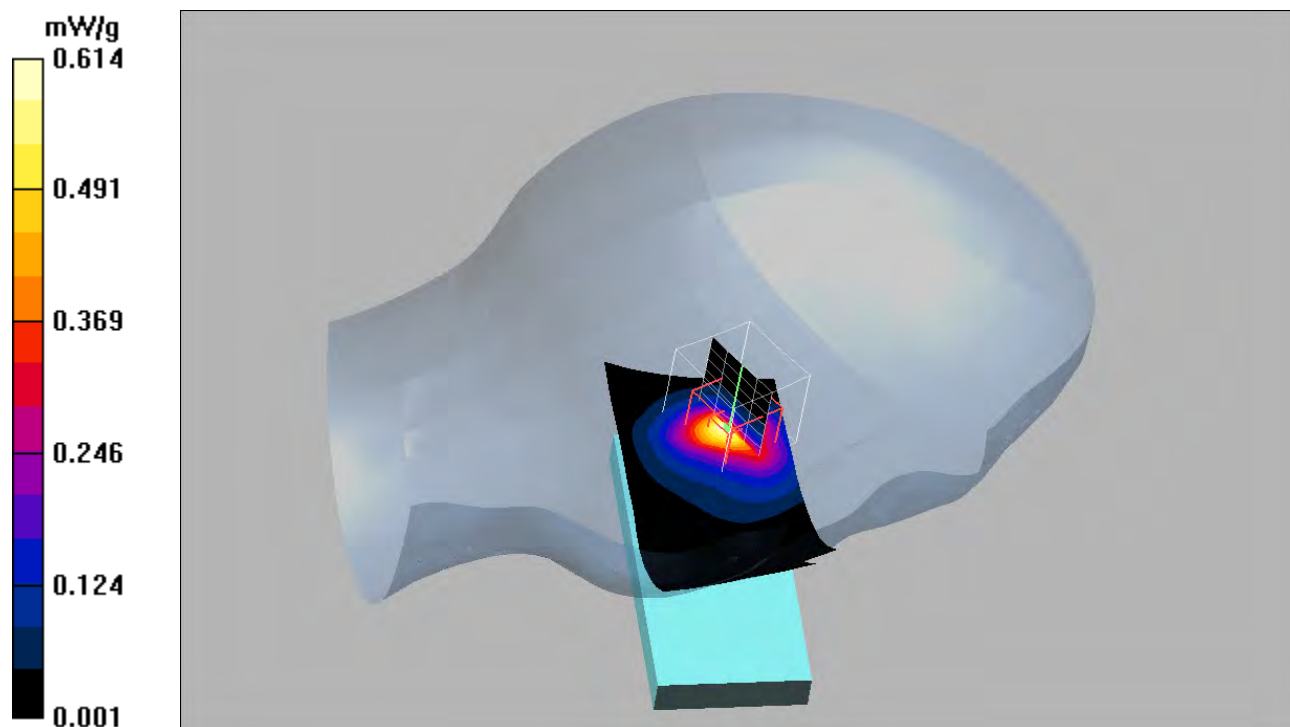
Mid, Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.2 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.531 mW/g; SAR(10 g) = 0.229 mW/g

Maximum value of SAR (measured) = 0.614 mW/g



Date/Time: 2009-12-03 16:31:45

Test Laboratory: Sony Ericsson Mobile Communications AB

WLAN Right Cheek 091203**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16644**

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

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.8$ mho/m; $\epsilon_r = 39.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(4.23, 4.23, 4.23); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Low, Cheek/Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.703 mW/g

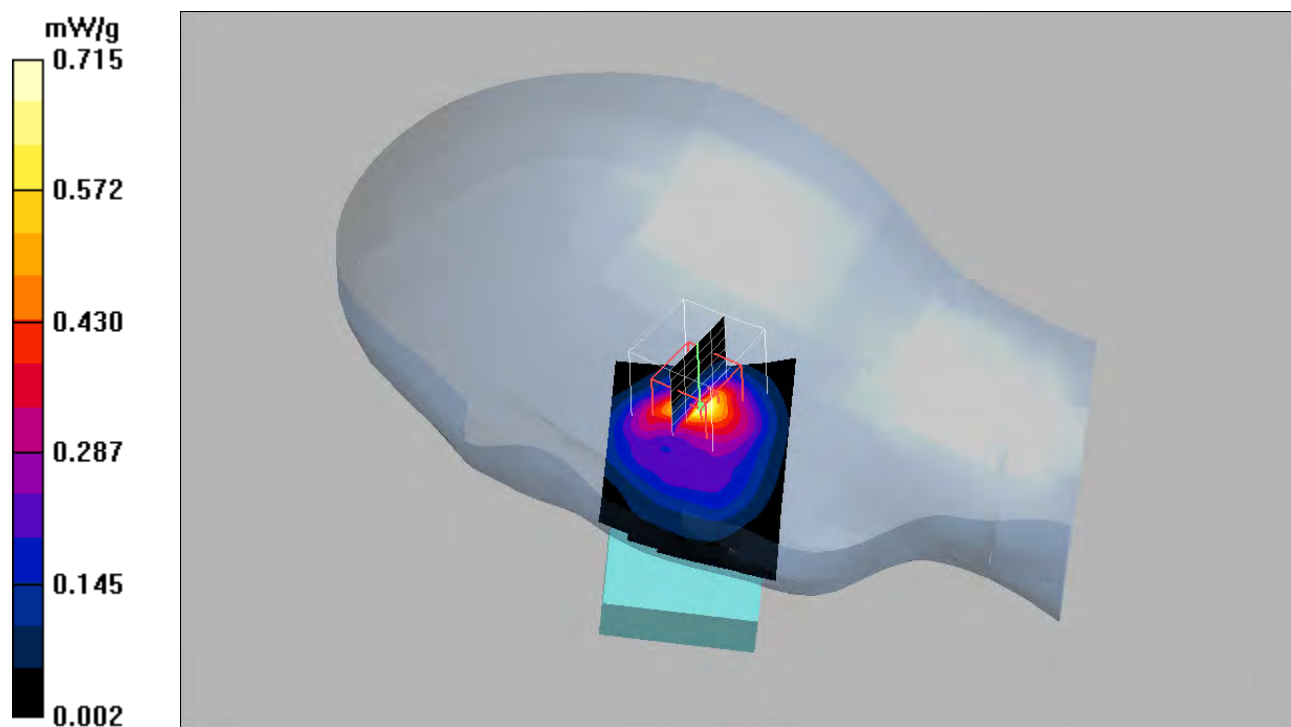
Low, Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.3 V/m; Power Drift = 0.043 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.603 mW/g; SAR(10 g) = 0.259 mW/g

Maximum value of SAR (measured) = 0.715 mW/g



Date/Time: 2009-12-03 16:01:38

Test Laboratory: Sony Ericsson Mobile Communications AB

WLAN Right Tilt 091203**DUT: PY7A3880058 (U5i); Type: GSM+UMTS+WLAN; Serial: #16644**

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

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.83$ mho/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(4.23, 4.23, 4.23); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Mid, Tilt/Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.549 mW/g

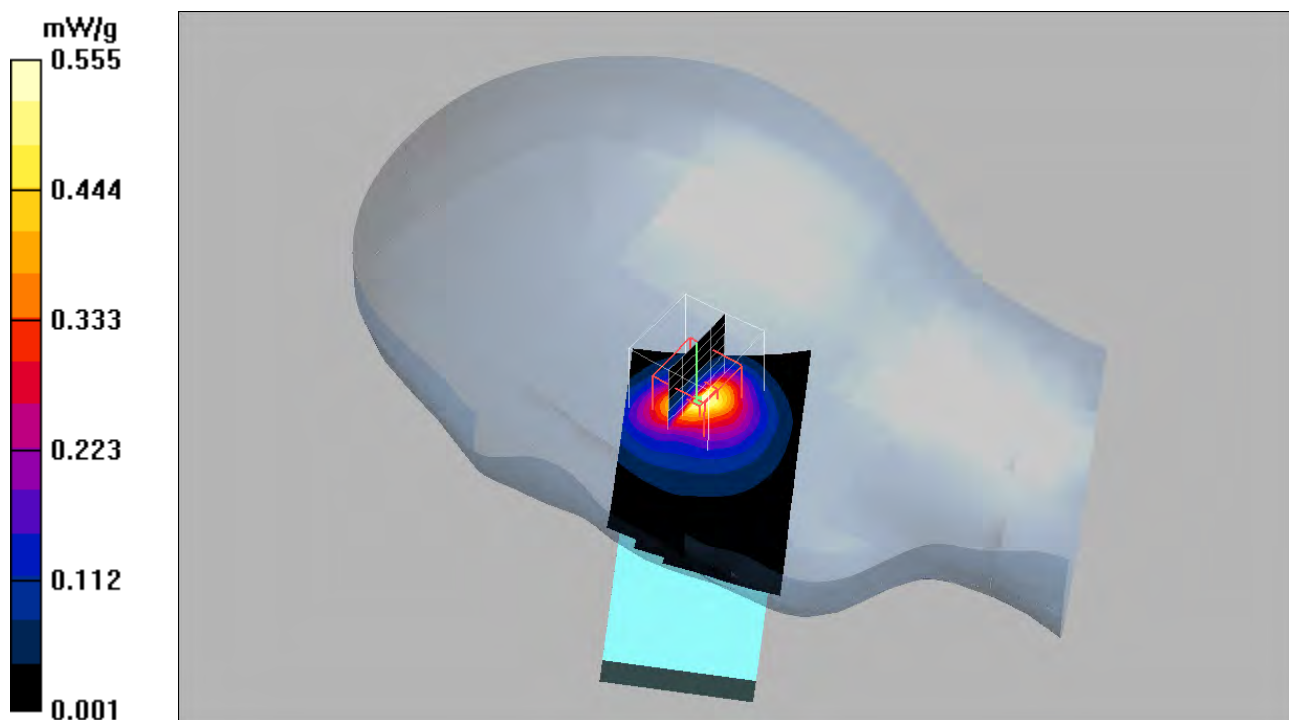
Mid, Tilt/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.6 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.470 mW/g; SAR(10 g) = 0.207 mW/g

Maximum value of SAR (measured) = 0.555 mW/g



Date/Time: 2009-12-07 18:43:31

Test Laboratory: Sony Ericsson Mobile Communications AB
 File Name: [Wlan Body.da4](#)

DUT: PY7A3880058 (U5i); Type: Wlan; Serial: #16644
Program Name: SAR measurement on Body

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 51.4$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(3.89, 3.89, 3.89); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Mid, Back/Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.038 mW/g

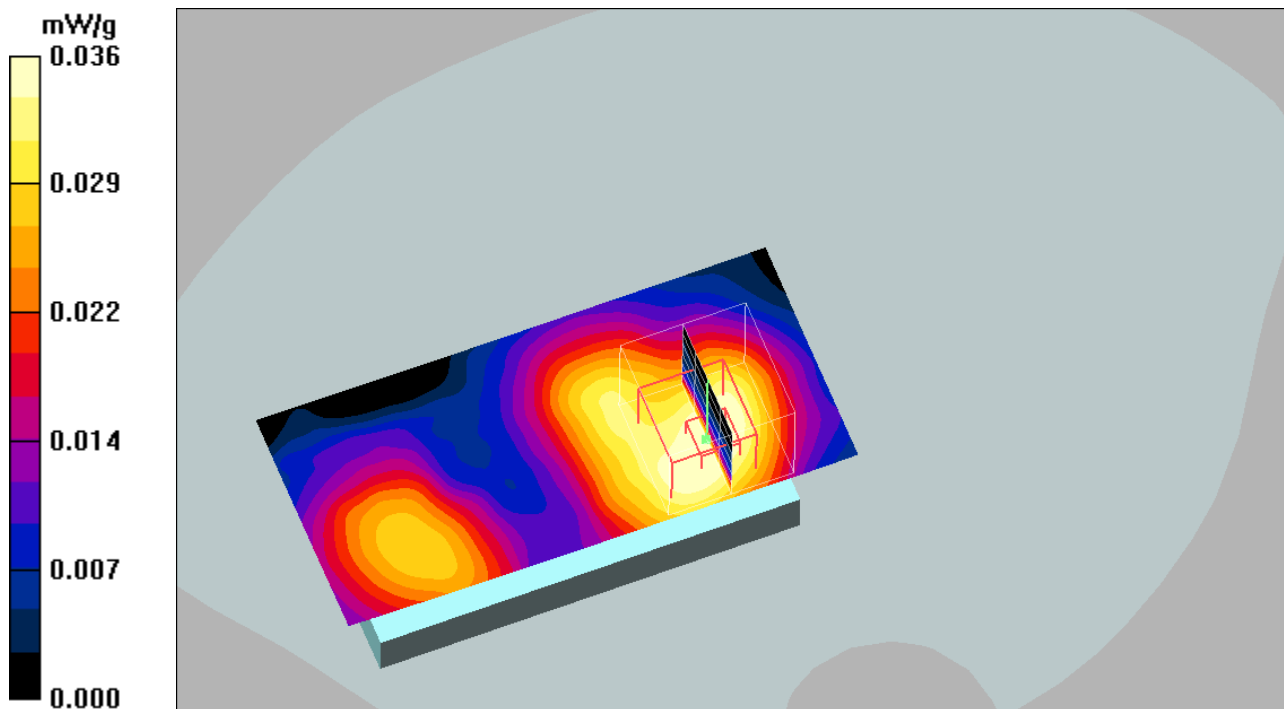
Mid, Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.97 V/m; Power Drift = 0.053 dB

Peak SAR (extrapolated) = 0.054 W/kg

SAR(1 g) = 0.032 mW/g; SAR(10 g) = 0.015 mW/g

Maximum value of SAR (measured) = 0.036 mW/g



Date/Time: 2009-12-07 17:51:38

Test Laboratory: Sony Ericsson Mobile Communications AB

File Name: [System Performance Check 2450MHz Head 091207.da4](#)**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:745****Program Name: System Performance Check**

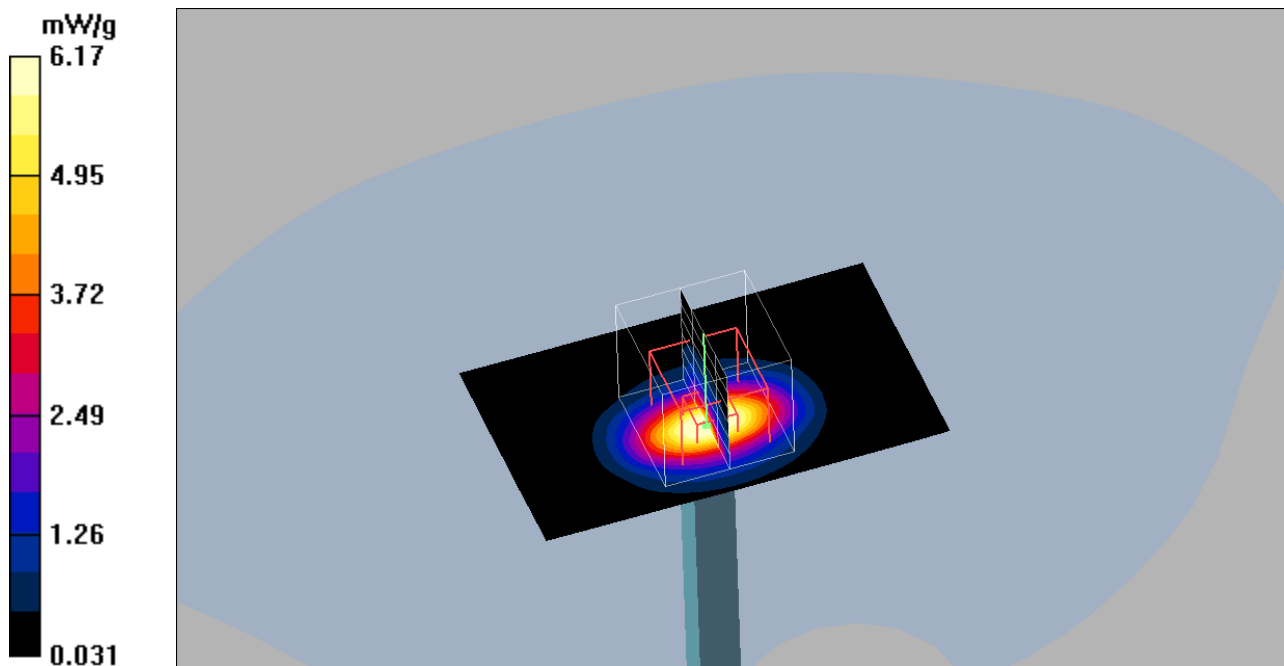
Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 2 \text{ mho/m}$; $\epsilon_r = 51.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(3.89, 3.89, 3.89); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

2450 MHz Dipole/Area Scan (61x101x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 6.44 mW/g **2450 MHz Dipole/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 46.7 V/m ; Power Drift = -0.009 dB Peak SAR (extrapolated) = 11.1 W/kg **SAR(1 g) = 5.42 mW/g ; SAR(10 g) = 2.49 mW/g** Maximum value of SAR (measured) = 6.17 mW/g 

Date/Time: 2009-12-07 19:41:06

Test Laboratory: Sony Ericsson Mobile Communications AB
 File Name: [Wlan Body.da4](#)

DUT: PY7A3880058 (U5i); Type: Wlan; Serial: #16644
Program Name: SAR measurement on Body

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3062; ConvF(3.89, 3.89, 3.89); Calibrated: 2009-01-12
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn433; Calibrated: 2009-01-09
- Phantom: SAM 1; Type: Twin SAM; Serial: TP-1144
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Low, Front/Area Scan (61x131x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.095 mW/g

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

Reference Value = 6.11 V/m; Power Drift = -0.090 dB

Peak SAR (extrapolated) = 0.160 W/kg

SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.052 mW/g

Maximum value of SAR (measured) = 0.094 mW/g

Low, Front/Z Scan (1x1x16): Measurement grid: dx=20mm, dy=20mm, dz=20mm

Maximum value of SAR (interpolated) = 0.012 mW/g

