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Nokia

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T117 (EN ISO/IEC 17025)

SAR Compliance Test Report

Test report no.:	Salo_SAR_0725_03	**Date of report:**	2007-07-05
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Measurements made by:	Janne Hirsimäki, Virpi Tuominen		
Tested device:	RM-160		
FCC ID:	PDNRM-160	**IC:**	661R-RM160
Supplement reports:	Salo_SAR_0725_04		

Testing has been carried out in accordance with:

47CFR §2.1093
Radiofrequency Radiation Exposure Evaluation: Portable Devices

FCC OET Bulletin 65 (Edition 97-01), Supplement C (Edition 01-01)
Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields

RSS-102
Evaluation Procedure for Mobile and Portable Radio Transmitters with Respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields

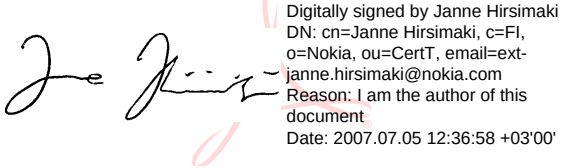
IEEE 1528 - 2003
IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Technique

Documentation: The documentation of the testing performed on the tested devices is archived for 15 years at TCC Nokia.

Test results: **The tested device complies with the requirements in respect of all parameters subject to the test.** The test results and statements relate only to the items tested. The test report shall not be reproduced except in full, without written approval of the laboratory.

Date and signatures:

For the contents:



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1. SUMMARY OF SAR TEST REPORT

1.1 Test Details

Period of test	2007-06-18 to 2007-07-02
SN, HW and SW numbers of tested device	SN: 004400/82/172025/5, HW: 4000, SW: V 10.2.001, DUT: 12017 SN: 004400/82/172024/8, HW: 4000, SW: V 10.2.001, DUT: 12016
Batteries used in testing	BL-6F, DUT: 11937, 11938, 11981, 11982
Headsets used in testing	HS-45 + AD-43, DUT: 12015, 12014
Other accessories used in testing	-
State of sample	Prototype unit
Notes	-

1.2 Maximum Results

The maximum measured SAR values for Head configuration and Body Worn configuration are given in section 1.2.1 and 1.2.2 respectively. The device conforms to the requirements of the standard(s) when the maximum measured SAR value is less than or equal to the limit.

1.2.1 Head Configuration

Mode	Ch / *f* (MHz)	Radiated power	Position	Measured SAR value (1g avg)	Scaled* SAR value (1g avg)	SAR limit (1g avg)	Result
GSM850	251 / 848.8	29.5 dBm ERP	Left, Cheek	0.687 W/kg	**0.77 W/kg**	1.6 W/kg	PASSED
WCDMA850	4233 / 846.6	18.2 dBm ERP	Left, Cheek	0.574 W/kg	**0.64 W/kg**	1.6 W/kg	PASSED
GSM1900	661 / 1880.0	30.8 dBm EIRP	Left, Tilt	0.425 W/kg	**0.48 W/kg**	1.6 W/kg	PASSED
WCDMA1900	9262 / 1852.4	23.6 dBm EIRP	Left, Tilt	0.799 W/kg	**0.89 W/kg**	1.6 W/kg	PASSED
WLAN2450	11 / 2462.0	20.5 dBm EIRP	Right, Cheek	0.334 W/kg	**0.37 W/kg**	1.6 W/kg	PASSED
GSM850 + WLAN2450	-	-	-	1.02 W/kg	**1.14 W/kg**	1.6 W/kg	PASSED
GSM1900 + WLAN2450	-	-	-	1.13 W/kg	**1.27 W/kg**	1.6 W/kg	PASSED

1.2.2 Body Worn Configuration

Mode	Ch / *f* (MHz)	Radiated power	Separation distance	Measured SAR value (1g avg)	Scaled* SAR value (1g avg)	SAR limit (1g avg)	Result
GSM850	190 / 836.6	30.6 dBm ERP	2.2 cm	0.542 W/kg	**0.61 W/kg**	1.6 W/kg	**PASSED**
WCDMA850	4132 / 826.4	17.9 dBm ERP	2.2 cm	0.470 W/kg	**0.53 W/kg**	1.6 W/kg	**PASSED**
GSM1900	810 / 1909.8	32.2 dBm EIRP	2.2 cm	0.413 W/kg	**0.46 W/kg**	1.6 W/kg	**PASSED**
WCDMA1900	9262 / 1852.4	23.6 dBm EIRP	2.2 cm	0.724 W/kg	**0.81 W/kg**	1.6 W/kg	**PASSED**
WLAN2450	11 / 2462.0	20.5 dBm EIRP	2.2 cm	0.026 W/kg	**0.03 W/kg**	1.6 W/kg	**PASSED**
GSM850 + WLAN2450	-	-	2.2 cm	0.565 W/kg	**0.63 W/kg**	1.6 W/kg	**PASSED**
GSM1900 + WLAN2450	-	-	2.2 cm	0.747 W/kg	**0.84 W/kg**	1.6 W/kg	**PASSED**

*SAR values are scaled up by 12% to cover measurement drift.

1.2.3 Maximum Drift

Maximum drift covered by 12% scaling up of the SAR values	Maximum drift during measurements
0.5dB	0.47 dB

1.2.4 Measurement Uncertainty

Expanded Uncertainty (k=2) 95%	± 25.8%

2. DESCRIPTION OF THE DEVICE UNDER TEST

Device category	Portable
Exposure environment	General population / uncontrolled

Modes and Bands of Operation	GSM 850 / 1900	GPRS 850 / 1900	EGPRS 850 / 1900	WCDMA 850 / 1900	BT	WLAN 2450
Modulation Mode	GMSK	GMSK	GMSK / 8PSK	QPSK	GFSK	
Duty Cycle	1/8	1/8 to 3/8	1/8 to 3/8	1		1
Transmitter Frequency Range (MHz)	824 - 849 1850 - 1910	824 - 849 1850 - 1910	824 - 849 1850 - 1910	824 - 849 1850 - 1910	2402-2480	2412-2462

Outside of USA and Canada, the transmitter of the device is capable of operating also in 900 / 1800 MHz bands, which are not part of this filing.

This device has Voice-over-IP/Dual Transfer Mode capability for use at the ear. Therefore, SAR for multi slot GPRS mode was evaluated against the head profile of the phantom.

2.1 Description of the Antenna

The device has internal antennas.

3. TEST CONDITIONS

3.1 Temperature and Humidity

Ambient temperature (°C):	19.0 to 23.0
Ambient humidity (RH %):	40 to 60

3.2 Test Signal, Frequencies and Output Power

The device was put into operation by using a call tester except for testing WLAN2450 where control software was used. Communication between the device and the call tester was established by air link.

The device output power was set to maximum power level for all tests; a fully charged battery was used for every test sequence.

In all operating bands the measurements were performed on lowest, middle and highest channels.

The radiated output power of the device was measured by a separate test laboratory on the same unit(s) as used for SAR testing.

4. DESCRIPTION OF THE TEST EQUIPMENT

4.1 Measurement System and Components

The measurements were performed using an automated near-field scanning system, DASY4, manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland. The SAR extrapolation algorithm used in all measurements was the 'advanced extrapolation' algorithm.

The following table lists calibration dates of SPEAG components:

Test Equipment	Serial Number	Calibration interval	Calibration expiry
DAE 4	555	12 months	2008-03
DAE 4	728	12 months	2008-02
E-field Probe ET3DV6	1396	12 months	2008-02
E-field Probe ET3DV6	1766	12 months	2008-03
Dipole Validation Kit, D835V2	480	24 months	2009-05
Dipole Validation Kit, D1900V2	5d013	24 months	2008-07
Dipole Validation Kit, D2450V2	749	24 months	2008-04
DASY4 software	Version 4.7	-	-

Additional test equipment used in testing:

Test Equipment	Model	Serial Number	Calibration interval	Calibration expiry
Signal Generator	SML03	101265	12 months	2007-07
Amplifier	ZHL-42 (SMA)	N072095-5	12 months	2007-07
Power Meter	NRVS	849305/028	12 months	2007-07
Power Sensor	NRV-Z32	839176/020	12 months	2007-07
Call Tester	CMU 200	101111	-	-
Call Tester	CMU 200	103293	-	-
Call Tester	CMU 200	100084	-	-
Vector Network Analyzer	8753E	US38432928	12 months	2007-07
Dielectric Probe Kit	85070B	US33020420	-	-

4.1.1 Isotropic E-field Probe Type ET3DV6

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., butyl diglycol)
Calibration	Calibration certificate in Appendix C
Frequency	10 MHz to 3 GHz (dosimetry); Linearity: ± 0.2 dB (30 MHz to 3 GHz)
Optical Surface Detection	± 0.2 mm repeatability in air and clear liquids over diffuse reflecting surfaces
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic Range	5 µW/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 330 mm Tip length: 16 mm Body diameter: 12 mm Tip diameter: 6.8 mm Distance from probe tip to dipole centers: 2.7 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms

4.2 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twin-headed "SAM Phantom", manufactured by SPEAG. The phantom conforms to the requirements of IEEE 1528 - 2003.

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.

The SPEAG device holder (see Section 5.1) was used to position the device in all tests whilst a tripod was used to position the validation dipoles against the flat section of phantom.

4.3 Tissue Simulants

Recommended values for the dielectric parameters of the tissue simulants are given in IEEE 1528 - 2003 and FCC Supplement C to OET Bulletin 65. All tests were carried out using simulants whose dielectric parameters were within ± 5% of the recommended values. All tests were carried out within 24 hours of measuring the dielectric parameters.

The depth of the tissue simulant was 15.0 ± 0.5 cm measured from the ear reference point during system checking and device measurements.

4.3.1 Tissue Simulant Recipes

The following recipe(s) were used for Head and Body tissue simulant(s):

800MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	51.50	69.25
Tween 20	47.35	30.00
Salt	1.15	0.75

1900MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	54.50	70.25
Tween 20	45.23	29.41
Salt	0.27	0.34

2450MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	56.0	70.2
Tween 20	44.0	29.62
Salt	-	0.18

4.3.2 System Checking

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyser. A system check measurement was made following the determination of the dielectric parameters of the simulant, using the dipole validation kit. A power level of 250 mW was supplied to the dipole antenna, which was placed under the flat section of the twin SAM phantom. The system checking results (dielectric parameters and SAR values) are given in the table below.

System checking, head tissue simulant

f [MHz]	Description	SAR [W/kg], 1g	Dielectric Parameters		Temp [°C]
			ε_r	σ [S/m]	
835	Reference result	2.29	41.6	0.90	
	± 10% window	2.06 – 2.52			
	2007-06-18	2.51	41.2	0.89	21.0
	2007-06-21	2.49	40.9	0.89	21.0
	2007-06-25	2.45	41.2	0.88	21.0
	2007-06-27	2.51	41.4	0.90	21.0
1900	Reference result	9.69	39.3	1.44	
	± 10% window	8.72 – 10.66			
	2007-06-26	9.91	40.1	1.41	21.0
	2007-06-27	9.77	39.9	1.41	21.0
2450	Reference result	13.5	38.8	1.76	
	± 10% window	12.1 – 14.9			
	2007-06-28	14.9	39.0	1.81	21.0
	2007-06-29	14.9	38.8	1.83	21.0

System checking, body tissue simulant

f [MHz]	Description	SAR [W/kg], 1g	Dielectric Parameters		Temp [°C]
			ε_r	σ [S/m]	
	Reference result	2.48	53.0	0.98	
	± 10% window	2.23 – 2.73			
835	2007-07-02	2.69	54.6	1.00	21.0
	Reference result	10.1	52.3	1.57	
	± 10% window	9.1 – 11.1			
1900	2007-06-28	9.82	53.0	1.53	21.0
	2007-06-29	9.75	52.9	1.52	21.0
	Reference result	14.1	53.7	1.97	
	± 10% window	12.7 – 15.5			
2450	2007-06-28	14.7	52.7	1.96	21.0

Plots of the system checking scans are given in Appendix A.

4.3.3 Tissue Simulants used in the Measurements

Head tissue simulant measurements

f [MHz]	Description	Dielectric Parameters		Temp [°C]
		ε_r	σ [S/m]	
	Recommended value	41.5	0.90	
	± 5% window	39.4 – 43.6	0.86 – 0.95	
836	2007-06-18	41.2	0.89	21.0
	2007-06-21	40.9	0.89	21.0
	2007-06-25	41.2	0.89	21.0
	2007-06-27	41.3	0.90	21.0
	Recommended value	40.0	1.40	
	± 5% window	38.0 – 42.0	1.33 – 1.47	
1880	2007-06-26	40.2	1.39	21.0
	2007-06-27	40.0	1.39	21.0
	Recommended value	39.2	1.79	
	± 5% window	37.3 – 41.2	1.70 – 1.88	
2442	2007-06-28	39.1	1.80	21.0
	2007-06-29	38.8	1.82	21.0

Body tissue simulant measurements

f [MHz]	Description	Dielectric Parameters		Temp [°C]
		ε_r	σ [S/m]	
	Recommended value	55.2	0.97	
	± 5% window	52.4 – 58.0	0.92 – 1.02	
836	2007-07-02	54.6	1.00	21.0
	Recommended value	53.3	1.52	
	± 5% window	50.6 – 56.0	1.44 – 1.60	
1880	2007-06-28	53.1	1.51	21.0
	2007-06-29	53.0	1.50	21.0
	Recommended value	52.7	1.94	
	± 5% window	50.1 – 55.3	1.85 – 2.04	
2442	2007-06-28	52.8	1.95	21.0

5. DESCRIPTION OF THE TEST PROCEDURE

5.1 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SPEAG as an integral part of the Dasy system.

Device holder supplied by SPEAG

A Nokia designed spacer (illustrated below) was used to position the device within the SPEAG holder. The spacer positions the device so that the holder has minimal effect on the test results but still holds the device securely. The spacer was removed before the tests.

Nokia spacer

5.2 Test Positions

5.2.1 Against Phantom Head

Measurements were made in “cheek” and “tilt” positions on both the left hand and right hand sides of the phantom.

The positions used in the measurements were according to IEEE 1528 - 2003 "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques".

5.2.2 Body Worn Configuration

The device was placed in the SPEAG holder using the Nokia spacer and placed below the flat section of the phantom. The distance between the device and the phantom was kept at the separation distance indicated in Section 1.2.2 using a separate flat spacer that was removed before the start of the measurements. The device was oriented with its antenna facing the phantom since this orientation gives higher results.

5.3 Scan Procedures

First, area scans were used for determination of the field distribution. Next, a zoom scan, a minimum of 5x5x7 points covering a volume of at least 30x30x30mm, was performed around the highest E-field value to determine the averaged SAR value. Drift was determined by measuring the same point at the start of the area scan and again at the end of the zoom scan.

5.4 SAR Averaging Methods

The maximum SAR value was averaged over a cube of tissue using interpolation and extrapolation.

The interpolation, extrapolation and maximum search routines within Dasy4 are all based on the modified Quadratic Shepard's method (Robert J. Renka, "Multivariate Interpolation Of Large Sets Of Scattered Data", University of North Texas ACM Transactions on Mathematical Software, vol. 14, no. 2, June 1988, pp. 139-148).

The interpolation scheme combines a least-square fitted function method with a weighted average method. A trivariate 3-D / bivariate 2-D quadratic function is computed for each measurement point and fitted to neighbouring points by a least-square method. For the zoom scan, inverse distance weighting is incorporated to fit distant points more accurately. The interpolating function is finally calculated as a weighted average of the quadratics.

In the zoom scan, the interpolation function is used to extrapolate the Peak SAR from the deepest measurement points to the inner surface of the phantom.

6. MEASUREMENT UNCERTAINTY

Table 6.1 – Measurement uncertainty evaluation

Uncertainty Component	Section in IEEE 1528	Tol. (%)	Prob Dist	Div	c_i	$c_i . u_i$ (%)	v_i
Measurement System							
Probe Calibration	E2.1	±5.9	N	1	1	±5.9	∞
Axial Isotropy	E2.2	±4.7	R	√3	$(1-c_p)^{1/2}$	±1.9	∞
Hemispherical Isotropy	E2.2	±9.6	R	√3	$(c_p)^{1/2}$	±3.9	∞
Boundary Effect	E2.3	±1.0	R	√3	1	±0.6	∞
Linearity	E2.4	±4.7	R	√3	1	±2.7	∞
System Detection Limits	E2.5	±1.0	R	√3	1	±0.6	∞
Readout Electronics	E2.6	±1.0	N	1	1	±1.0	∞
Response Time	E2.7	±0.8	R	√3	1	±0.5	∞
Integration Time	E2.8	±2.6	R	√3	1	±1.5	∞
RF Ambient Conditions - Noise	E6.1	±3.0	R	√3	1	±1.7	∞
RF Ambient Conditions - Reflections	E6.1	±3.0	R	√3	1	±1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	±0.4	R	√3	1	±0.2	∞
Probe Positioning with respect to Phantom Shell	E6.3	±2.9	R	√3	1	±1.7	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E5	±3.9	R	√3	1	±2.3	∞
Test sample Related							
Test Sample Positioning	E4.2	±6.0	N	1	1	±6.0	11
Device Holder Uncertainty	E4.1	±5.0	N	1	1	±5.0	7
Output Power Variation - SAR drift measurement	6.6.3	±0.0	R	√3	1	±0.0	∞
Phantom and Tissue Parameters							
Phantom Uncertainty (shape and thickness tolerances)	E3.1	±4.0	R	√3	1	±2.3	∞
Conductivity Target - tolerance	E3.2	±5.0	R	√3	0.64	±1.8	∞
Conductivity - measurement uncertainty	E3.3	±5.5	N	1	0.64	±3.5	5
Permittivity Target - tolerance	E3.2	±5.0	R	√3	0.6	±1.7	∞
Permittivity - measurement uncertainty	E3.3	±2.9	N	1	0.6	±1.7	5
Combined Standard Uncertainty			RSS			**±12.9**	116
Coverage Factor for 95%			**k=2**				
Expanded Uncertainty						**±25.8**	

7. RESULTS

The measured Head SAR values for the test device are tabulated below:

850MHz Head SAR results

Option used	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz
GSM	**Power**		**28.3 dBm**	**30.6 dBm**	**29.5 dBm**
Slide closed	Left	Cheek	0.488	0.639	**0.675**
		Tilt	-	0.635	-
	Right	Cheek	-	0.622	-
		Tilt	-	0.508	-
GSM	**Power**		**28.2 dBm**	**30.9 dBm**	**30.6 dBm**
Slide open	Left	Cheek	-	0.326	-
		Tilt	-	0.180	-
	Right	Cheek	0.253	0.356	0.386
		Tilt	-	0.182	-
2-slot GPRS	**Power**		**25.3 dBm**	**27.6 dBm**	**27.2 dBm**
Slide closed	Left	Cheek	-	0.587	-
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
3-slot GPRS	**Power**		**23.3 dBm**	**25.8 dBm**	**25.6 dBm**
Slide closed	Left	Cheek	-	0.553	-
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
1-slot 8PSK EGPRS	**Power**		**19.3 dBm**	**22.4 dBm**	**21.8 dBm**
Slide closed	Left	Cheek	-	-	0.103
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-

850MHz Head SAR results (continues)

Option used	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz
WCDMA	**Power**		**17.9 dBm**	**17.9 dBm**	**18.2 dBm**
Slide closed	Left	Cheek	0.565	0.571	0.574
		Tilt	-	0.522	-
	Right	Cheek	-	0.566	-
		Tilt	-	0.442	-
GSM MPS position	Left Cheek		0.516	0.667	**0.687**
GSM MPS position	Left Cheek, BT active		-	-	0.682

"Slide" means the keypad slide
"MPS" means the Multimedia Player slide

1900MHz Head SAR results

Option used	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz
GSM	**Power**		**30.3 dBm**	**30.8 dBm**	**32.2 dBm**
Slide closed	Left	Cheek	-	0.370	-
		Tilt	0.376	**0.425**	0.417
	Right	Cheek	-	0.243	-
		Tilt	-	0.354	-
GSM	**Power**		**29.4 dBm**	**29.6 dBm**	**31.7 dBm**
Slide open	Left	Cheek	-	0.175	-
		Tilt	0.260	0.312	0.312
	Right	Cheek	-	0.189	-
		Tilt	-	0.292	-
2-slot GPRS	**Power**		**26.9 dBm**	**27.4 dBm**	**29.8 dBm**
Slide closed	Left	Cheek	-	0.311	-
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-

1900MHz Head SAR results (continues)

3-slot GPRS	Power		24.8 dBm	25.5 dBm	27.3 dBm
Slide closed	Left	Cheek	-	0.257	-
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
1-slot 8PSK EGPRS	**Power**		**24.9 dBm**	**25.8 dBm**	**27.7 dBm**
Slide closed	Left	Cheek	-	-	-
		Tilt	-	0.082	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
Option used	**Test configuration**		**SAR, averaged over 1g (W/kg)**		
			Ch 9262 1852.4 MHz	**Ch 9400 1880.0 MHz**	**Ch 9538 1907.6 MHz**
WCDMA	**Power**		**23.6 dBm**	**24.1 dBm**	**25.1 dBm**
Slide closed	Left	Cheek	-	0.628	-
		Tilt	0.723	**0.733**	0.584
	Right	Cheek	-	0.440	-
		Tilt	-	0.618	-
WCDMA MPS position	Left Tilt		**0.793**	0.723	0.608
WCDMA MPS position	Left Tilt, BT active		**0.799**	-	-

2450MHz Head SAR results

Option used	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 1 2412.0 MHz	Ch 7 2442.0 MHz	Ch 11 2462.0 MHz
WLAN	**Power**		**20.3 dBm**	**18.3 dBm**	**20.5 dBm**
Slide closed	Left	Cheek	-	0.107	-
		Tilt	-	0.043	-
	Right	Cheek	0.112	0.181	**0.212**
		Tilt	-	0.027	-
WLAN	**Power**		**21.2 dBm**	**21.7 dBm**	**23.1 dBm**
Slide open	Left	Cheek	-	0.061	-
		Tilt	-	0.062	-
	Right	Cheek	0.085	0.140	0.181
		Tilt	-	0.052	-
WLAN MPS position	Right Cheek		0.128	0.238	**0.334**

The measured Body SAR values for the test device are tabulated below:

850MHz Body SAR results

Option used	Test configuration	SAR, averaged over 1g (W/kg)		
		Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz
GSM	**Power**	**28.3 dBm**	**30.6 dBm**	**29.5 dBm**
Slide closed	Without headset	0.536	**0.542**	0.444
	Headset HS-45 + AD-43	0.498	0.489	0.375
Option used	**Test configuration**	**SAR, averaged over 1g (W/kg)**		
		Ch 4132 826.4 MHz	**Ch 4175 835.0 MHz**	**Ch 4233 846.6 MHz**
WCDMA	**Power**	**17.9 dBm**	**17.9 dBm**	**18.2 dBm**
Slide closed	Without headset	0.470	0.397	0.382
	Headset HS-45 + AD-43	0.431	0.351	0.325
GSM Slide closed	Without headset, BT active	-	0.500	-

1900MHz Body SAR results

Option used	Test configuration	SAR, averaged over 1g (W/kg)		
		Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz
GSM	**Power**	**30.3 dBm**	**30.8 dBm**	**32.2 dBm**
Slide closed	Without headset	0.331	0.374	0.403
	Headset HS-45 + AD-43	0.337	0.376	0.413
Option used	**Test configuration**	**SAR, averaged over 1g (W/kg)**		
		Ch 9262 1852.4 MHz	**Ch 9400 1880.0 MHz**	**Ch 9538 1907.6 MHz**
WCDMA	**Power**	**23.6 dBm**	**24.1 dBm**	**25.1 dBm**
Slide closed	Without headset	**0.663**	0.628	0.552
	Headset HS-45 + AD-43	0.646	0.651	0.571
WCDMA Slide closed	Without headset, BT active	**0.724**	-	-

2450MHz Body SAR results

Option used	Test configuration	SAR, averaged over 1g (W/kg)		
		Ch 1 2412.0 MHz	Ch 7 2442.0 MHz	Ch 11 2462.0 MHz
WLAN	Power	20.3 dBm	18.3 dBm	20.5 dBm
Slide closed	Without headset	0.010	0.018	0.023
	Headset HS-45 + AD-43	0.010	0.017	**0.026**

Simultaneous transmissions: Combined SAR results

Option used	Test configuration	Max. 1g SAR results			Combined 1g SAR values	
		WLAN	850MHz band	1900MHz band	WLAN + 850MHz band	WLAN + 1900MHz band
Slide closed	Head: Left, Cheek	0.107	0.675	0.628	0.782	0.735
	Head: Left, Tilt	0.043	0.635	0.733	0.678	0.776
	Head: Right, Cheek	0.212	0.622	0.440	0.834	0.652
	Head: Right, Tilt	0.027	0.508	0.618	0.535	0.645
Slide open	Head: Left, Cheek	0.061	0.326	0.175	0.387	0.236
	Head: Left, Tilt	0.062	0.180	0.312	0.242	0.374
	Head: Right, Cheek	0.181	0.386	0.189	0.567	0.370
	Head: Right, Tilt	0.052	0.182	0.292	0.234	0.344
Slide in MPS position	Head: highest result	0.334	0.687	0.799	**1.02**	**1.13**
Slide closed	Body: Without Headset	0.023	0.542	0.724	**0.565**	**0.747**
	Body: Headset HS-45 + AD-54	0.026	0.498	0.651	0.524	0.677

Combining the maximum SAR values of WLAN2450 and the cellular bands tends to overestimate the SAR value since their maxima do not necessarily occur in the same location.

Plots of the Measurement scans are given in Appendix B.

APPENDIX A: SYSTEM CHECKING SCANS

Date/Time: 2007-06-18 17:08:01

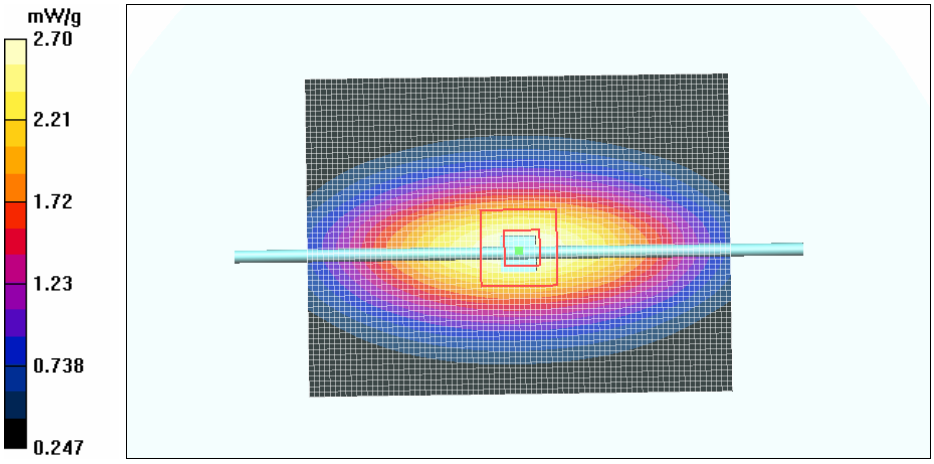
Test Laboratory: TCC Nokia
Type: D835V2; Serial: D835V2 - SN:480

Communication System: CW835
Frequency: 835 MHz; Duty Cycle: 1:1
Medium: HSL850; Medium Notes: t=21.0C
Medium parameters used: f = 835 MHz; σ = 0.891 mho/m; ε_r = 41.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- 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) = 2.70 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.9 V/m
Peak SAR (extrapolated) = 3.75 W/kg
SAR(1 g) = 2.51 mW/g
SAR(10 g) = 1.64 mW/g
Power Drift = -0.010 dB
Maximum value of SAR (measured) = 2.70 mW/g



Date/Time: 2007-06-21 10:44:38

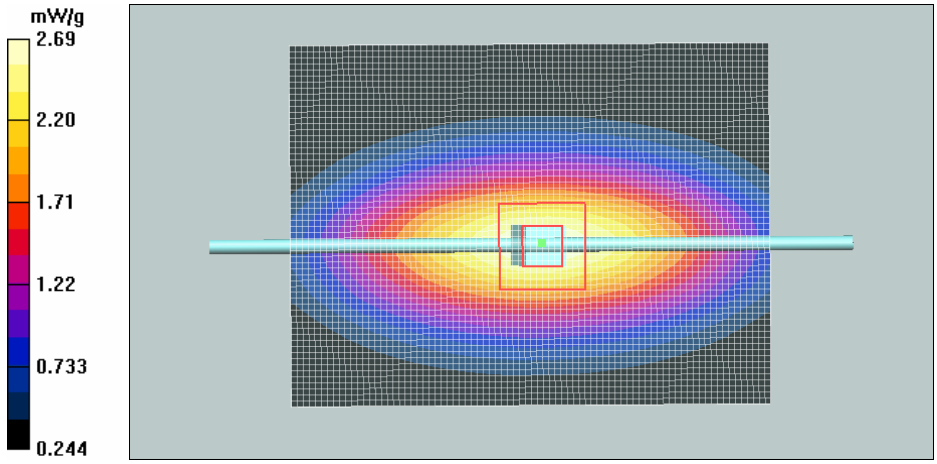
Test Laboratory: TCC Nokia
Type: D835V2; Serial: D835V2 - SN:480

Communication System: CW835
Frequency: 835 MHz; Duty Cycle: 1:1
Medium: HSL850; Medium Notes: t=21.0C
Medium parameters used: f = 835 MHz; σ = 0.887 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- 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) = 2.67 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.5 V/m
Peak SAR (extrapolated) = 3.72 W/kg
SAR(1 g) = 2.49 mW/g
SAR(10 g) = 1.62 mW/g
Power Drift = 0.016 dB
Maximum value of SAR (measured) = 2.69 mW/g



Date/Time: 2007-06-25 10:36:30

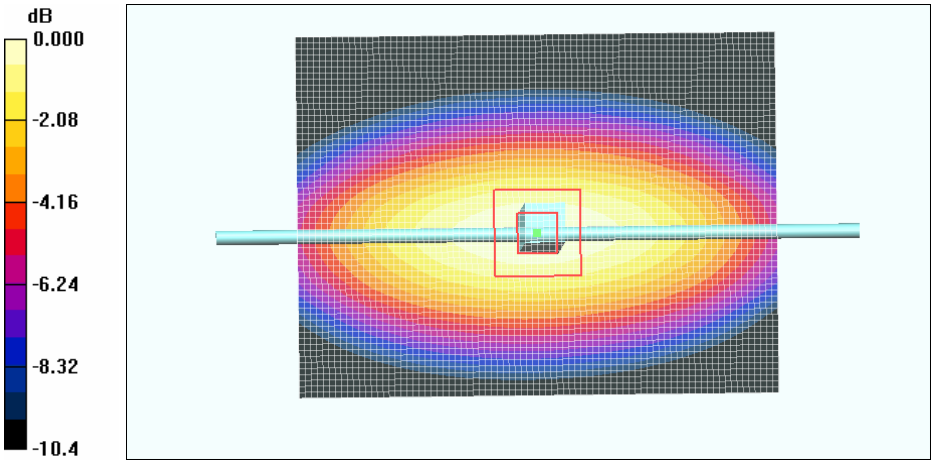
Test Laboratory: TCC Nokia
Type: D835V2; Serial: D835V2 - SN:480

Communication System: CW835
Frequency: 835 MHz; Duty Cycle: 1:1
Medium: HSL850; Medium Notes: t=21.0C
Medium parameters used: f = 835 MHz; σ = 0.882 mho/m; ε_r = 41.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- 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) = 2.62 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.8 V/m
Peak SAR (extrapolated) = 3.67 W/kg
SAR(1 g) = 2.45 mW/g
SAR(10 g) = 1.6 mW/g
Power Drift = 0.005 dB
Maximum value of SAR (measured) = 2.66 mW/g



0 dB = 2.66mW/g

Date/Time: 2007-06-27 08:50:30

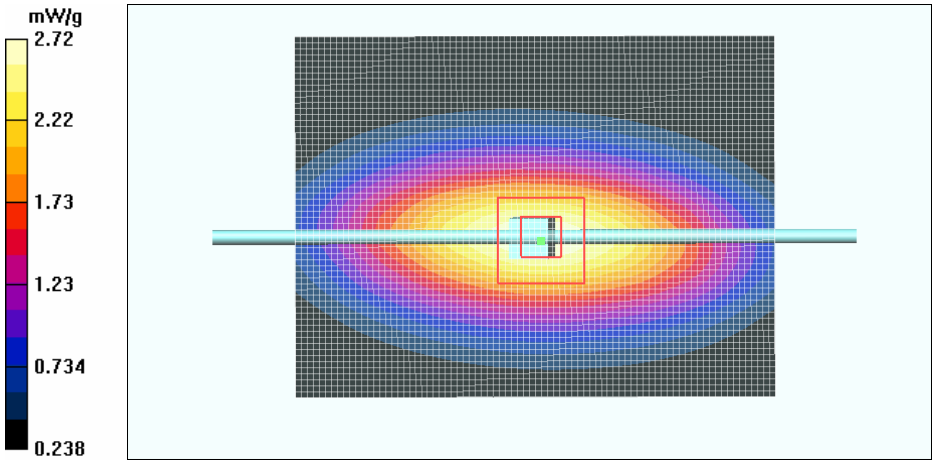
Test Laboratory: TCC Nokia
Type: D835V2; Serial: D835V2 - SN:480

Communication System: CW835
Frequency: 835 MHz; Duty Cycle: 1:1
Medium: HSL850 ; Medium Notes: t=21.0C
Medium parameters used: f = 835 MHz; σ = 0.903 mho/m; ε_r = 41.4; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- 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) = 2.69 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.5 V/m
Peak SAR (extrapolated) = 3.77 W/kg
SAR(1 g) = 2.51 mW/g
SAR(10 g) = 1.63 mW/g
Power Drift = -0.012 dB
Maximum value of SAR (measured) = 2.72 mW/g



Date/Time: 2007-06-26 08:44:29

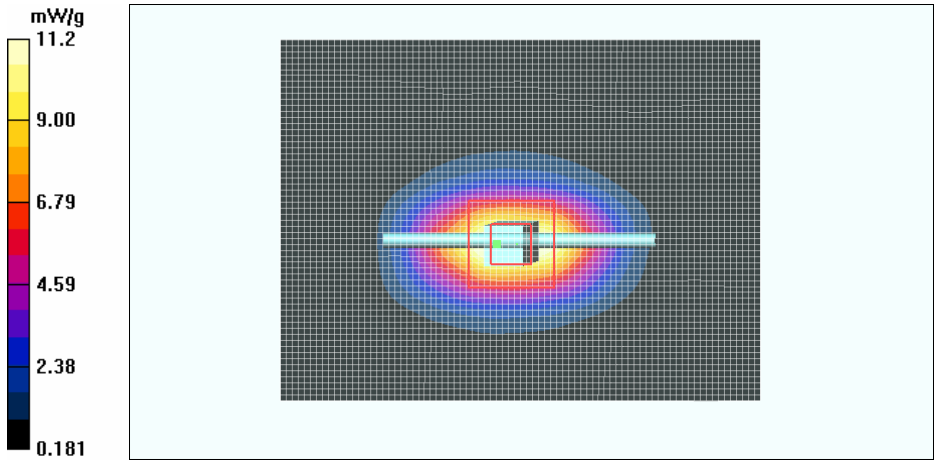
Test Laboratory: TCC Nokia
Type: D1900V2; Serial: D1900V2 - SN:5d013

Communication System: CW1900
Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL1900; Medium Notes: 20.4C
Medium parameters used: f = 1900 MHz; σ = 1.41 mho/m; ε_r = 40.1; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- 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) = 12.0 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 93.7 V/m
Peak SAR (extrapolated) = 17.3 W/kg
SAR(1 g) = 9.91 mW/g
SAR(10 g) = 5.21 mW/g
Power Drift = 0.023 dB
Maximum value of SAR (measured) = 11.2 mW/g



Date/Time: 2007-06-27 16:33:51

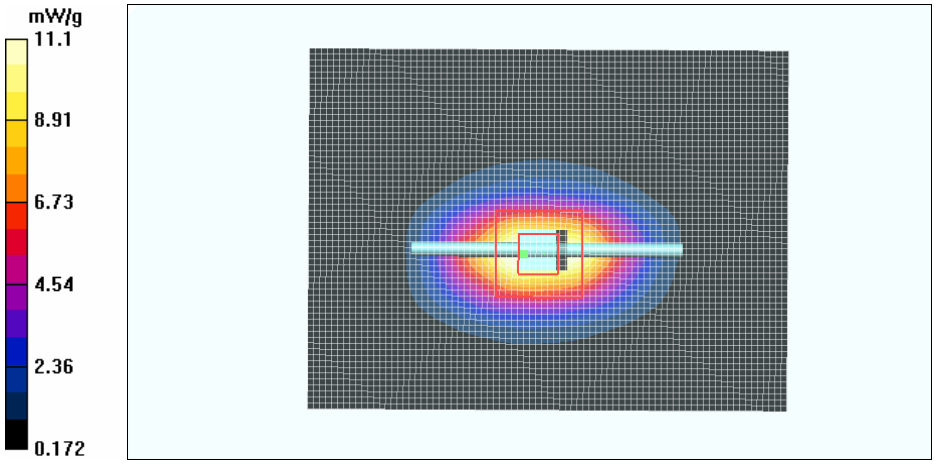
Test Laboratory: TCC Nokia
Type: D1900V2; Serial: D1900V2 - SN:5d013

Communication System: CW1900
Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL1900; Medium Notes: 20.1C
Medium parameters used: f = 1900 MHz; σ = 1.41 mho/m; ε_r = 39.9; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- 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) = 11.8 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 93.6 V/m
Peak SAR (extrapolated) = 16.9 W/kg
SAR(1 g) = 9.77 mW/g
SAR(10 g) = 5.15 mW/g
Power Drift = -0.002 dB
Maximum value of SAR (measured) = 11.1 mW/g



Date/Time: 2007-06-28 11:58:20

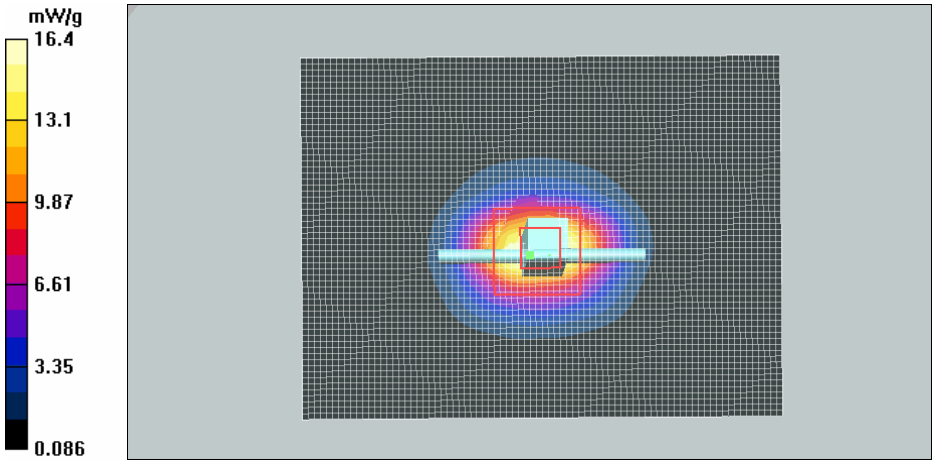
Test Laboratory: TCC Nokia
Type: D2450V2; Serial: D2450V2 - SN:749

Communication System: CW2450
Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: T=20.8C
Medium parameters used: f = 2450 MHz; σ = 1.81 mho/m; ε_r = 39; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(4.38, 4.38, 4.38); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- 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) = 16.9 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 99.4 V/m
Peak SAR (extrapolated) = 32.4 W/kg
SAR(1 g) = 14.9 mW/g
SAR(10 g) = 6.86 mW/g
Power Drift = 0.054 dB
Maximum value of SAR (measured) = 16.4 mW/g



Date/Time: 2007-06-29 11:05:04

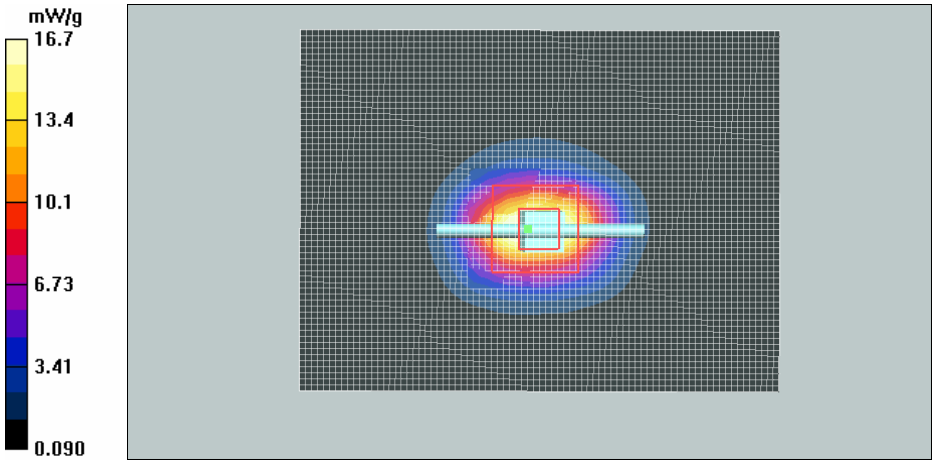
Test Laboratory: TCC Nokia
Type: D2450V2; Serial: D2450V2 - SN:749

Communication System: CW2450
Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: 20.6C
Medium parameters used: f = 2450 MHz; σ = 1.83 mho/m; ε_r = 38.8; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(4.38, 4.38, 4.38); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- 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) = 17.5 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 100.7 V/m
Peak SAR (extrapolated) = 32.1 W/kg
SAR(1 g) = 14.9 mW/g
SAR(10 g) = 6.88 mW/g
Power Drift = -0.043 dB
Maximum value of SAR (measured) = 16.7 mW/g



Date/Time: 2007-07-02 08:53:40

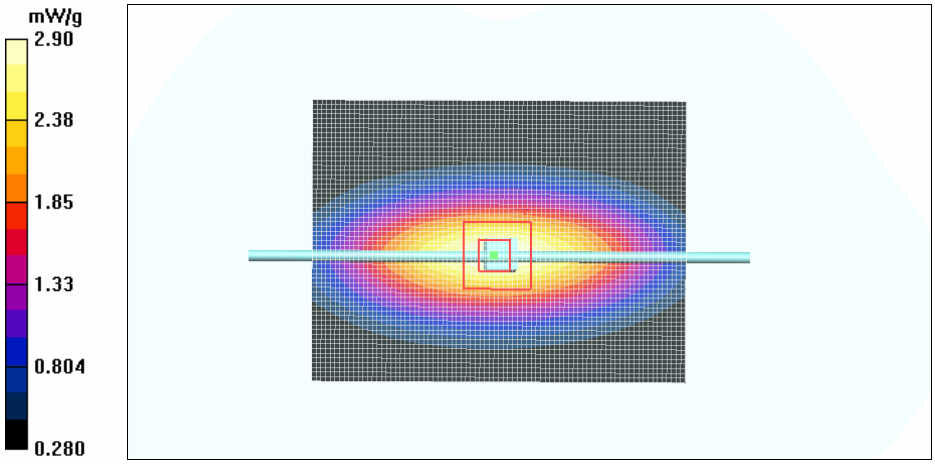
Test Laboratory: TCC Nokia
Type: D835V2; Serial: D835V2 - SN:480

Communication System: CW835
Frequency: 835 MHz; Duty Cycle: 1:1
Medium: BSL850; Medium Notes: 21.1C
Medium parameters used: f = 835 MHz; σ = 1 mho/m; ε_r = 54.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.85, 5.85, 5.85); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 3; Type: SAM 4.0; Serial: 1272
- 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) = 2.90 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 55.9 V/m
Peak SAR (extrapolated) = 3.90 W/kg
SAR(1 g) = 2.69 mW/g
SAR(10 g) = 1.77 mW/g
Power Drift = -0.006 dB
Maximum value of SAR (measured) = 2.90 mW/g



Date/Time: 2007-06-28 16:35:35

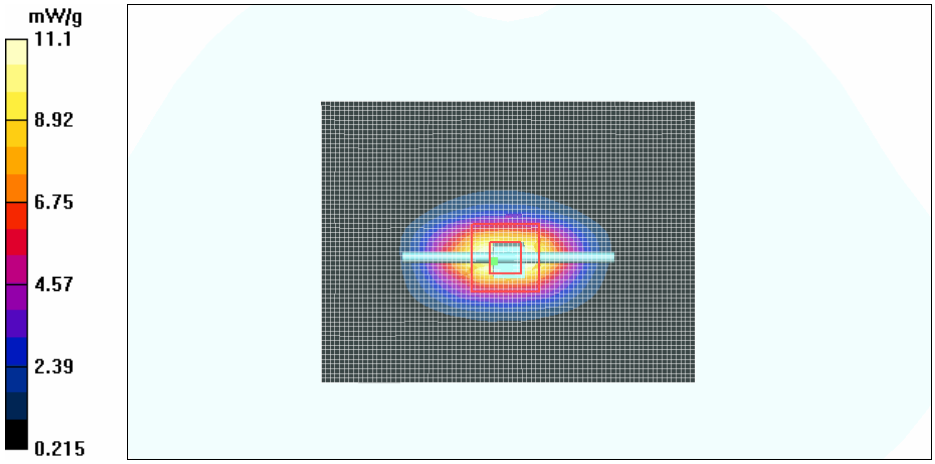
Test Laboratory: TCC Nokia
Type: D1900V2; Serial: D1900V2 - SN:5d013

Communication System: CW1900
Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: M1900; Medium Notes: 21.3C
Medium parameters used: f = 1900 MHz; σ = 1.53 mho/m; ε_r = 53; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(4.7, 4.7, 4.7); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- 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) = 11.7 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 90.8 V/m
Peak SAR (extrapolated) = 16.7 W/kg
SAR(1 g) = 9.82 mW/g
SAR(10 g) = 5.25 mW/g
Power Drift = 0.009 dB
Maximum value of SAR (measured) = 11.1 mW/g



Date/Time: 2007-06-29 11:59:02

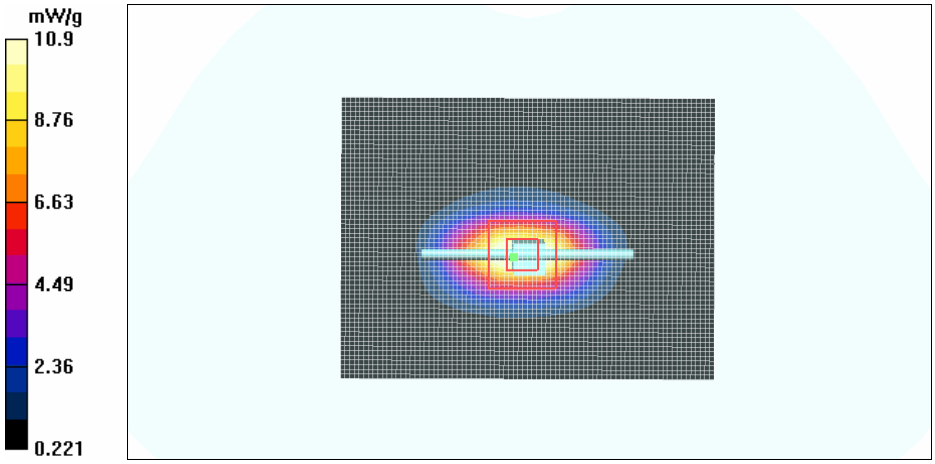
Test Laboratory: TCC Nokia
Type: D1900V2; Serial: D1900V2 - SN:5d013

Communication System: CW1900
Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: BSL1900; Medium Notes: 20.3C
Medium parameters used: f = 1900 MHz; σ = 1.52 mho/m; ε_r = 52.9; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(4.7, 4.7, 4.7); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- 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) = 11.9 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 91.0 V/m
Peak SAR (extrapolated) = 16.5 W/kg
SAR(1 g) = 9.75 mW/g
SAR(10 g) = 5.21 mW/g
Power Drift = 0.011 dB
Maximum value of SAR (measured) = 10.9 mW/g



Date/Time: 2007-06-28 11:02:49

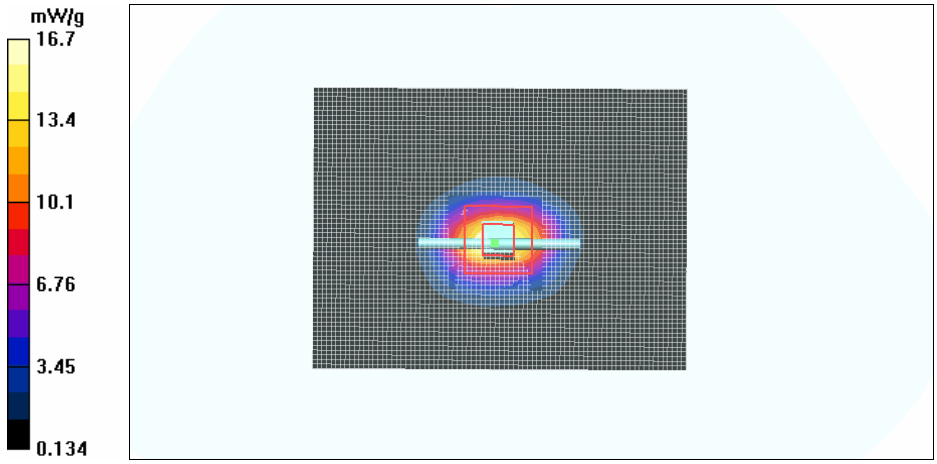
Test Laboratory: TCC Nokia
Type: D2450V2; Serial: D2450V2 - SN:749

Communication System: CW2450
Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: BSL2450; Medium Notes: 21.6C
Medium parameters used: f = 2450 MHz; σ = 1.96 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(4, 4, 4); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- 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) = 16.9 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 97.1 V/m
Peak SAR (extrapolated) = 31.2 W/kg
SAR(1 g) = 14.7 mW/g
SAR(10 g) = 6.9 mW/g
Power Drift = -0.043 dB
Maximum value of SAR (measured) = 16.7 mW/g



APPENDIX B: MEASUREMENT SCANS

Date/Time: 2007-06-18 20:51:10

Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

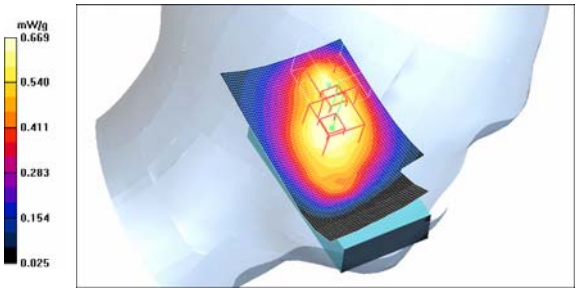
Communication System: GSM850
Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium: HSL850 ; Medium Notes: t=20.7C
Medium parameters used: f = 849 MHz; σ = 0.898 mho/m; ε_r = 41.1; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, High, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.709 mW/g

Cheek position, High, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.2 V/m
Peak SAR (extrapolated) = 0.962 W/kg
SAR(1 g) = 0.675 mW/g
SAR(10 g) = 0.495 mW/g
Power Drift = 0.062 dB
Maximum value of SAR (measured) = 0.717 mW/g

Cheek position, High, closed/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.2 V/m
Peak SAR (extrapolated) = 1.02 W/kg
SAR(1 g) = 0.595 mW/g
SAR(10 g) = 0.396 mW/g
Power Drift = 0.062 dB
Warning: Maximum averaged SAR over 1 g is located on the boundary of the measurement cube.
Maximum averaged SAR over 10 g is located on the boundary of the measurement cube.
Maximum value of SAR (measured) = 0.669 mW/g



Date/Time: 2007-06-18 18:23:36

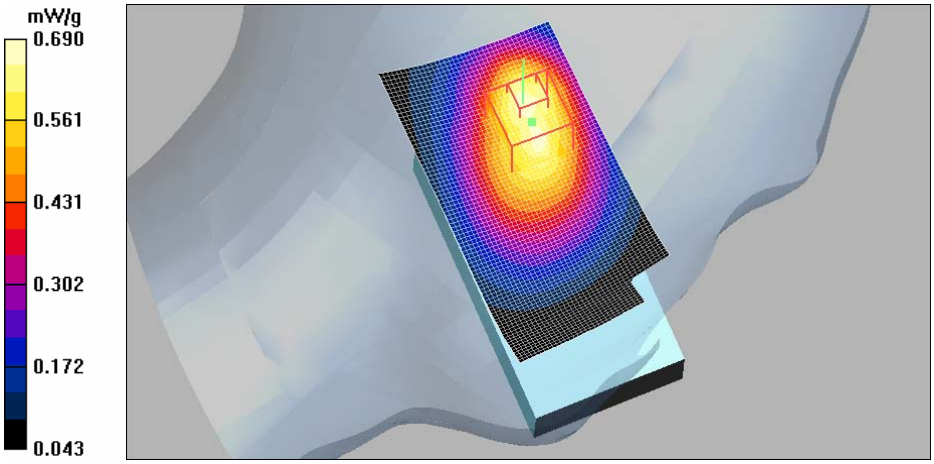
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: GSM850
Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium: HSL850; Medium Notes: t=20.9C
Medium parameters used: f = 837 MHz; σ = 0.892 mho/m; ε_r = 41.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.678 mW/g

Tilt position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 25.1 V/m
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.635 mW/g
SAR(10 g) = 0.420 mW/g
Power Drift = -0.039 dB
Maximum value of SAR (measured) = 0.690 mW/g



Date/Time: 2007-06-18 19:29:10

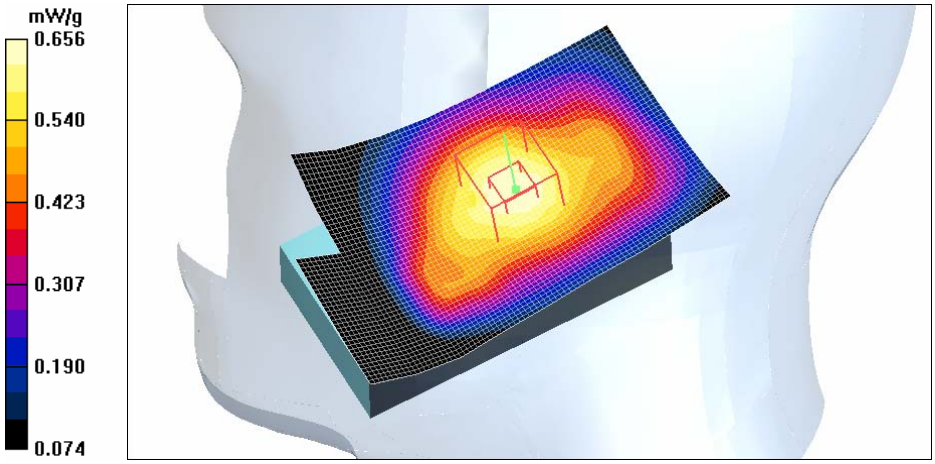
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: GSM850
Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium: HSL850; Medium Notes: t=20.9C
Medium parameters used: f = 837 MHz; σ = 0.892 mho/m; ε_r = 41.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.662 mW/g

Cheek position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.7 V/m
Peak SAR (extrapolated) = 0.777 W/kg
SAR(1 g) = 0.622 mW/g
SAR(10 g) = 0.465 mW/g
Power Drift = -0.046 dB
Maximum value of SAR (measured) = 0.656 mW/g



Date/Time: 2007-06-18 19:47:03

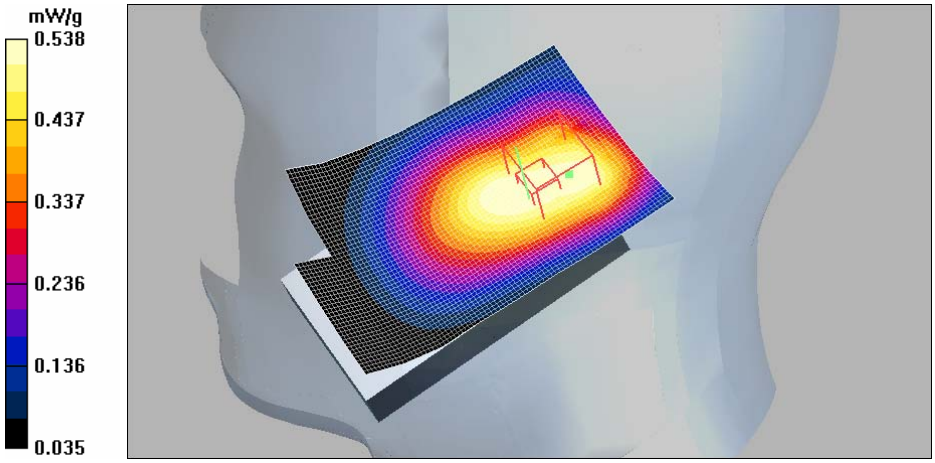
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: GSM850
Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium: HSL850; Medium Notes: t=20.7C
Medium parameters used: f = 837 MHz; σ = 0.892 mho/m; ε_r = 41.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.577 mW/g

Tilt position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 24.7 V/m
Peak SAR (extrapolated) = 0.769 W/kg
SAR(1 g) = 0.508 mW/g
SAR(10 g) = 0.367 mW/g
Power Drift = -0.003 dB
Warning: Maximum averaged SAR over 1 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement. Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.
Maximum value of SAR (measured) = 0.538 mW/g



Date/Time: 2007-06-21 14:34:39

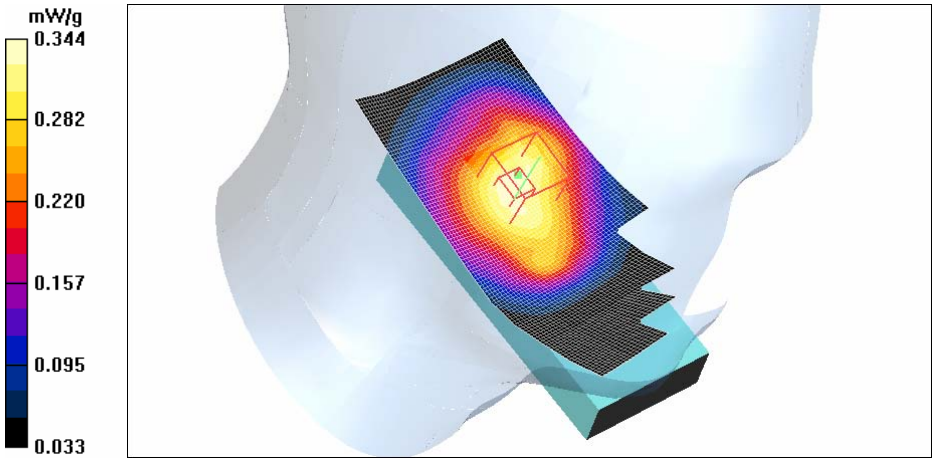
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: GSM850
Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium: HSL850; Medium Notes: t=20.6C
Medium parameters used: f = 837 MHz; σ = 0.888 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, open/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.336 mW/g

Cheek position, Middle, open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 13.8 V/m
Peak SAR (extrapolated) = 0.426 W/kg
SAR(1 g) = 0.326 mW/g
SAR(10 g) = 0.241 mW/g
Power Drift = -0.120 dB
Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.
Maximum value of SAR (measured) = 0.344 mW/g



Date/Time: 2007-06-21 14:51:32

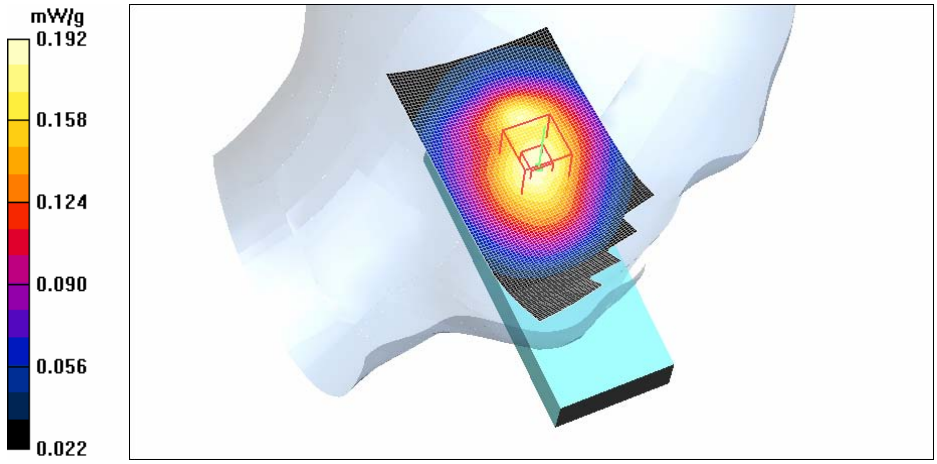
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: GSM850
Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium: HSL850; Medium Notes: t=20.6C
Medium parameters used: f = 837 MHz; σ = 0.888 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle, open/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.194 mW/g

Tilt position, Middle, open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.5 V/m
Peak SAR (extrapolated) = 0.230 W/kg
SAR(1 g) = 0.180 mW/g
SAR(10 g) = 0.132 mW/g
Power Drift = -0.026 dB
Maximum value of SAR (measured) = 0.192 mW/g



Date/Time: 2007-06-21 16:26:08

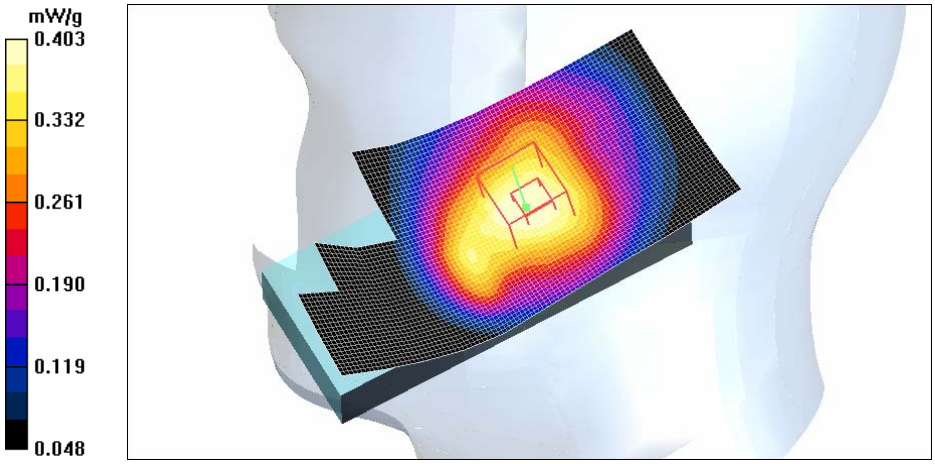
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: GSM850
Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium: HSL850; Medium Notes: t=20.3C
Medium parameters used: f = 849 MHz; σ = 0.895 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, High, open/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.403 mW/g

Cheek position, High, open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 13.4 V/m
Peak SAR (extrapolated) = 0.476 W/kg
SAR(1 g) = 0.386 mW/g
SAR(10 g) = 0.290 mW/g
Power Drift = 0.007 dB
Maximum value of SAR (measured) = 0.403 mW/g



Date/Time: 2007-06-21 15:41:16

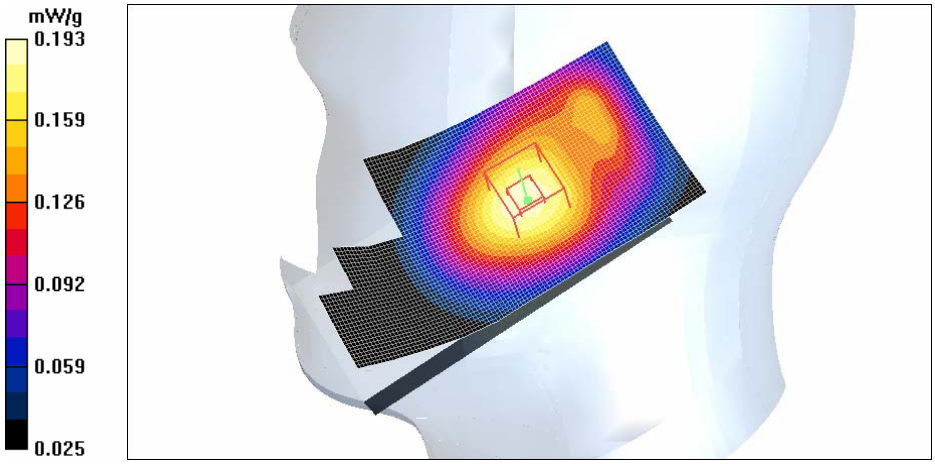
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: GSM850
Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium: HSL850 ; Medium Notes: t=20.3C
Medium parameters used: f = 837 MHz; σ = 0.888 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle, open/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.194 mW/g

Tilt position, Middle, open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.8 V/m
Peak SAR (extrapolated) = 0.228 W/kg
SAR(1 g) = 0.182 mW/g
SAR(10 g) = 0.135 mW/g
Power Drift = -0.062 dB
Maximum value of SAR (measured) = 0.193 mW/g



Date/Time: 2007-06-18 18:43:57

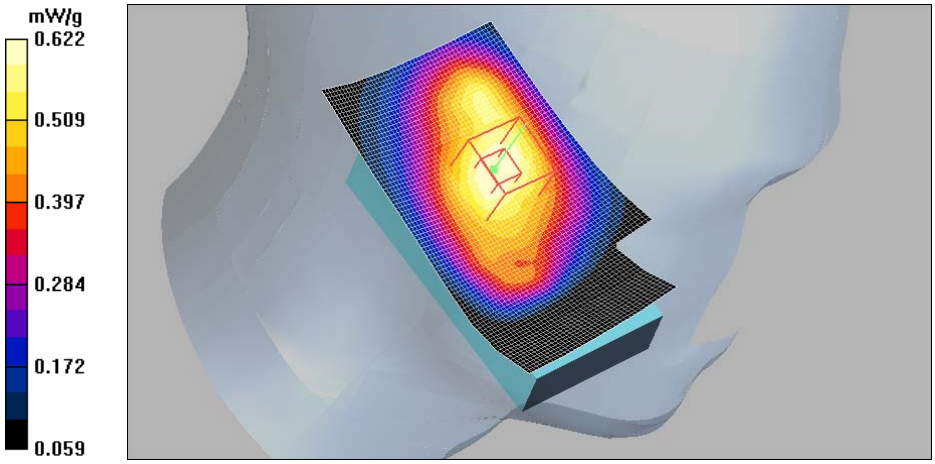
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: 2-slot GPRS850
Frequency: 836.6 MHz; Duty Cycle: 1:4.2
Medium: HSL850; Medium Notes: t=20.9C
Medium parameters used: f = 837 MHz; σ = 0.892 mho/m; ε_r = 41.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.623 mW/g

Cheek position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 22.0 V/m
Peak SAR (extrapolated) = 0.859 W/kg
SAR(1 g) = 0.587 mW/g
SAR(10 g) = 0.431 mW/g
Power Drift = -0.037 dB
Maximum value of SAR (measured) = 0.622 mW/g



Date/Time: 2007-06-18 19:00:29

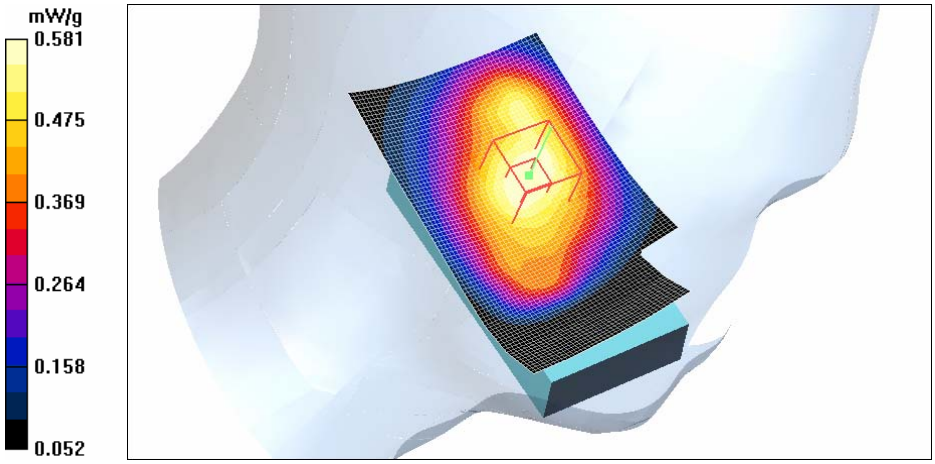
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: 3-slot GPRS850
Frequency: 836.6 MHz; Duty Cycle: 1:2.8
Medium: HSL850; Medium Notes: t=20.9C
Medium parameters used: f = 837 MHz; σ = 0.892 mho/m; ε_r = 41.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.579 mW/g

Cheek position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 21.4 V/m
Peak SAR (extrapolated) = 0.781 W/kg
SAR(1 g) = 0.553 mW/g
SAR(10 g) = 0.408 mW/g
Power Drift = -0.012 dB
Maximum value of SAR (measured) = 0.581 mW/g



Date/Time: 2007-06-27 09:32:06

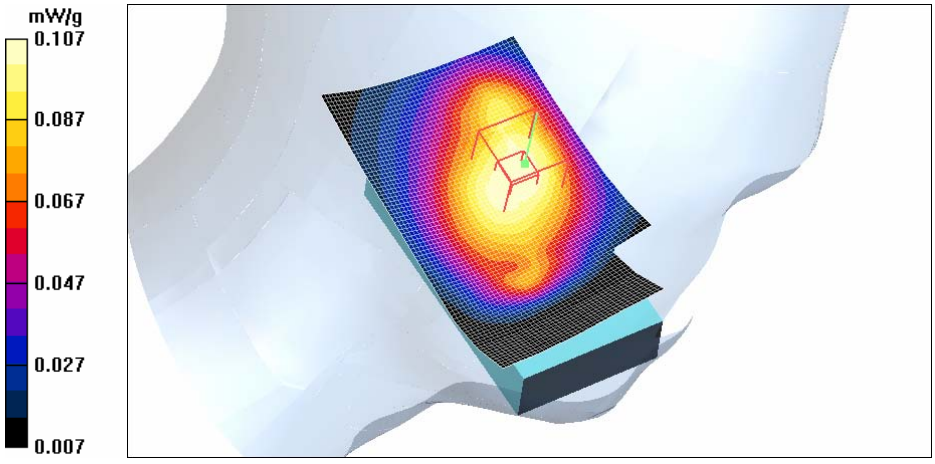
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: 1-slot 8PSK EGPRS850
Frequency: 849 MHz; Duty Cycle: 1:8.3
Medium: HSL850; Medium Notes: t=20.8C
Medium parameters used: f = 849 MHz; σ = 0.912 mho/m; ε_r = 41.3; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, High, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.111 mW/g

Cheek position, High, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 8.54 V/m
Peak SAR (extrapolated) = 0.165 W/kg
SAR(1 g) = 0.103 mW/g
SAR(10 g) = 0.073 mW/g
Power Drift = -0.102 dB
Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.
Maximum value of SAR (measured) = 0.107 mW/g



Date/Time: 2007-06-21 13:47:48

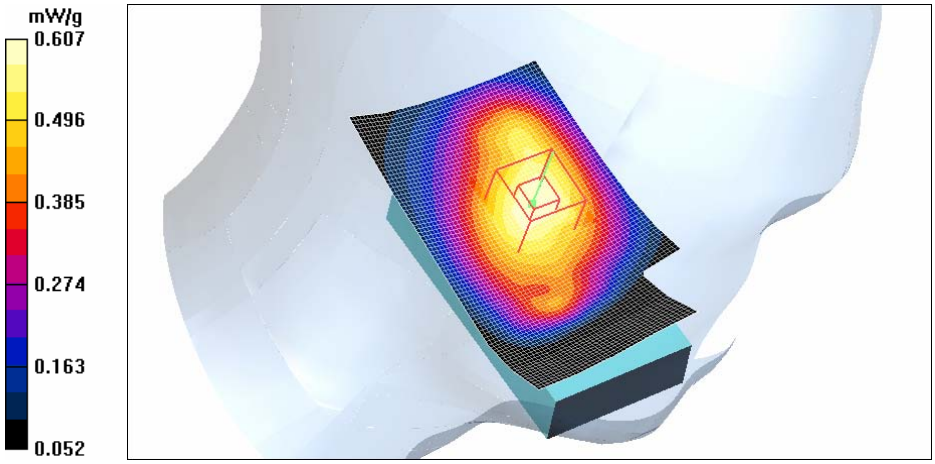
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WCDMA850
Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: HSL850; Medium Notes: t=20.6C
Medium parameters used: f = 847 MHz; σ = 0.894 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, High, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.612 mW/g

Cheek position, High, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 21.5 V/m
Peak SAR (extrapolated) = 0.858 W/kg
SAR(1 g) = 0.574 mW/g
SAR(10 g) = 0.416 mW/g
Power Drift = -0.181 dB
Maximum value of SAR (measured) = 0.607 mW/g



Date/Time: 2007-06-21 12:07:31

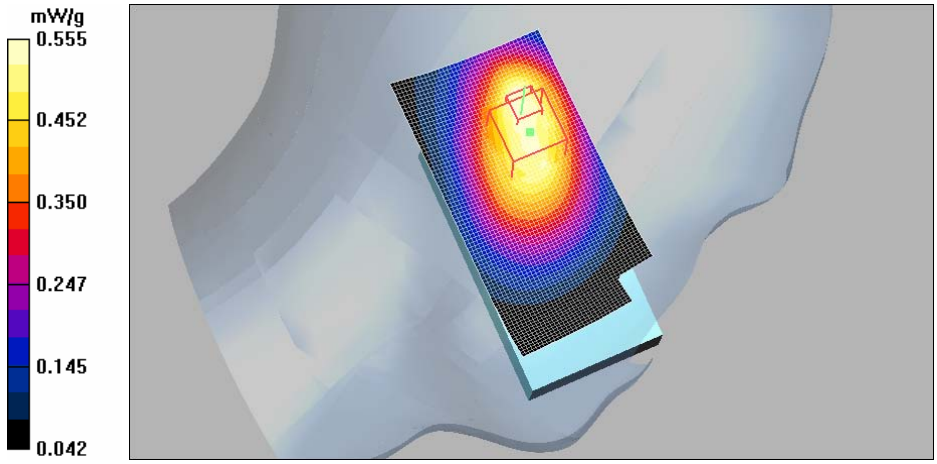
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WCDMA850
Frequency: 835 MHz; Duty Cycle: 1:1
Medium: HSL850; Medium Notes: t=20.9C
Medium parameters used: f = 835 MHz; σ = 0.887 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.592 mW/g

Tilt position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.6 V/m
Peak SAR (extrapolated) = 0.860 W/kg
SAR(1 g) = 0.522 mW/g
SAR(10 g) = 0.359 mW/g
Power Drift = -0.225 dB
Maximum value of SAR (measured) = 0.555 mW/g



Date/Time: 2007-06-21 12:55:47

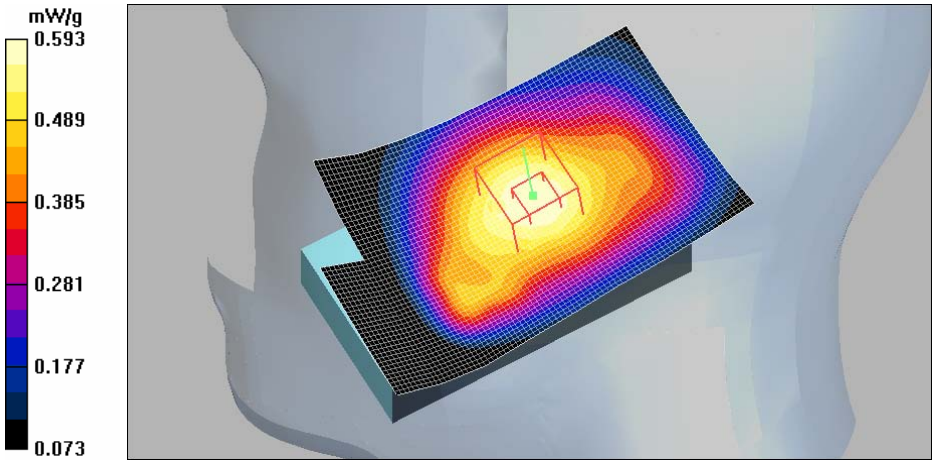
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WCDMA850
Frequency: 835 MHz; Duty Cycle: 1:1
Medium: HSL850; Medium Notes: t=20.9C
Medium parameters used: f = 835 MHz; σ = 0.887 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.603 mW/g

Cheek position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 22.2 V/m
Peak SAR (extrapolated) = 0.697 W/kg
SAR(1 g) = 0.566 mW/g
SAR(10 g) = 0.427 mW/g
Power Drift = -0.085 dB
Maximum value of SAR (measured) = 0.593 mW/g



Date/Time: 2007-06-21 12:33:22

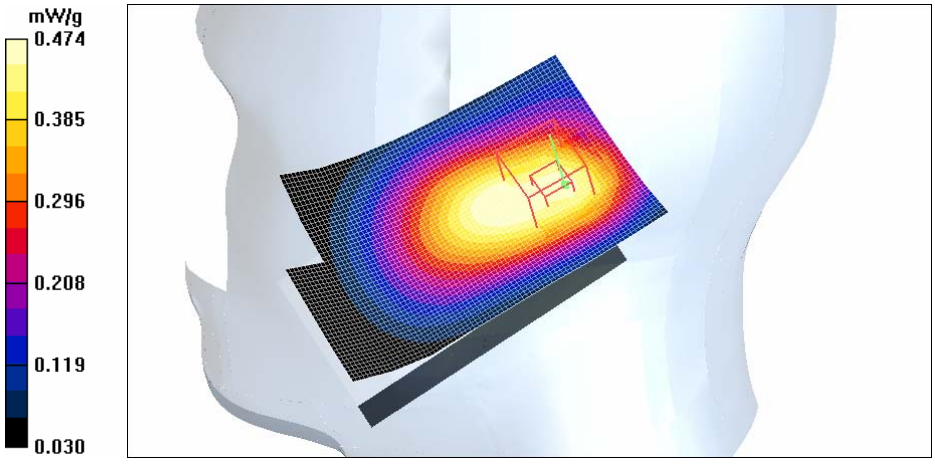
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WCDMA850
Frequency: 835 MHz; Duty Cycle: 1:1
Medium: HSL850; Medium Notes: t=20.9C
Medium parameters used: f = 835 MHz; σ = 0.887 mho/m; ε_r = 40.9; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.497 mW/g

Tilt position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.8 V/m
Peak SAR (extrapolated) = 0.651 W/kg
SAR(1 g) = 0.442 mW/g
SAR(10 g) = 0.313 mW/g
Power Drift = -0.215 dB
Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.
Maximum value of SAR (measured) = 0.474 mW/g



Date/Time: 2007-06-25 13:21:09

Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

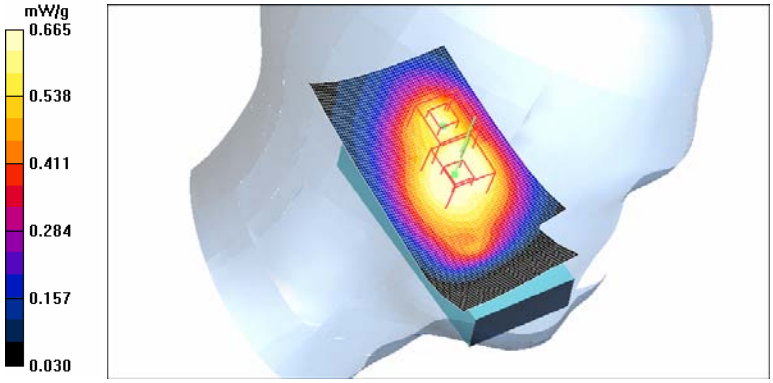
Communication System: GSM850
Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium: HSL850; Medium Notes: t=20.7C
Medium parameters used: f = 849 MHz; σ = 0.892 mho/m; ε_r = 41.1; ρ = 1000 kg/m^3
Phantom section: Left Section

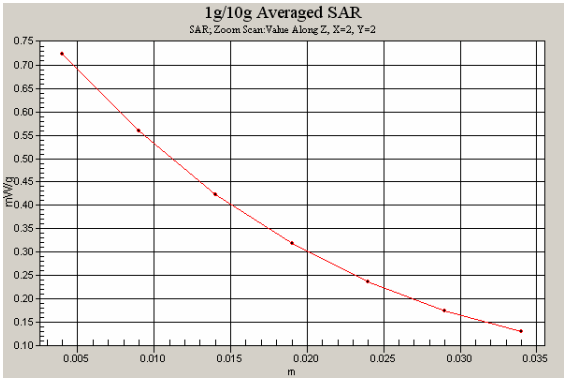
DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, High, MPS/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.752 mW/g

Cheek position, High, MPS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 25.6 V/m
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.687 mW/g
SAR(10 g) = 0.504 mW/g
Power Drift = -0.147 dB
Maximum value of SAR (measured) = 0.723 mW/g

Cheek position, High, MPS/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 25.6 V/m
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.602 mW/g
SAR(10 g) = 0.407 mW/g
Power Drift = -0.147 dB
Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. Maximum value of SAR (measured) = 0.665 mW/g





Date/Time: 2007-06-25 14:53:51

Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

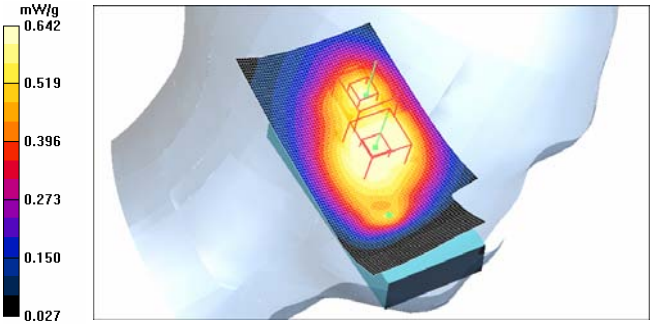
Communication System: GSM850
Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium: HSL850; Medium Notes: t=20.7C
Medium parameters used: f = 849 MHz; σ = 0.892 mho/m; ε_r = 41.1; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.88, 5.88, 5.88); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, High, MPS, BT/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.720 mW/g

Cheek position, High, MPS, BT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 25.7 V/m
Peak SAR (extrapolated) = 0.976 W/kg
SAR(1 g) = 0.682 mW/g
SAR(10 g) = 0.501 mW/g
Power Drift = -0.324 dB
Maximum value of SAR (measured) = 0.722 mW/g

Cheek position, High, MPS, BT/Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 25.7 V/m
Peak SAR (extrapolated) = 1.03 W/kg
SAR(1 g) = 0.586 mW/g
SAR(10 g) = 0.381 mW/g
Power Drift = -0.324 dB
Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube.
Maximum value of SAR (measured) = 0.642 mW/g



Date/Time: 2007-06-26 09:59:41

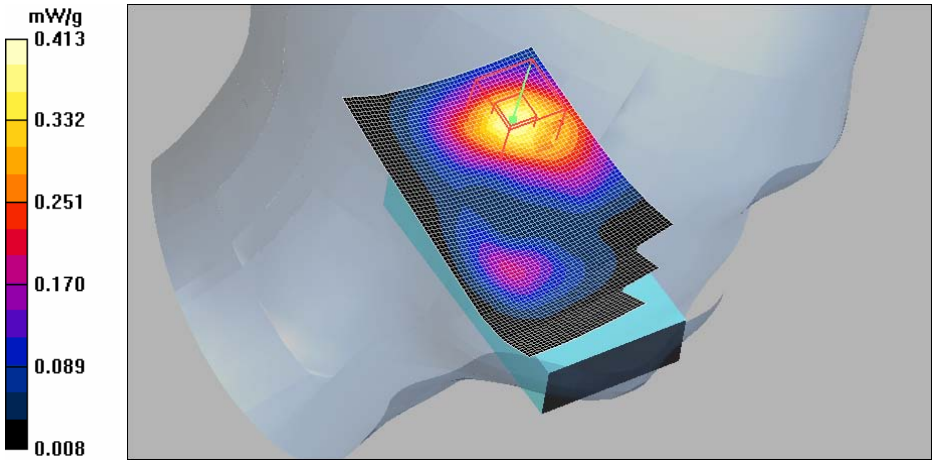
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: GSM1900
Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: HSL1900; Medium Notes: 20.4C
Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.383 mW/g

Cheek position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.4 V/m
Peak SAR (extrapolated) = 0.631 W/kg
SAR(1 g) = 0.370 mW/g
SAR(10 g) = 0.211 mW/g
Power Drift = -0.050 dB
Maximum value of SAR (measured) = 0.413 mW/g



Date/Time: 2007-06-26 11:04:24

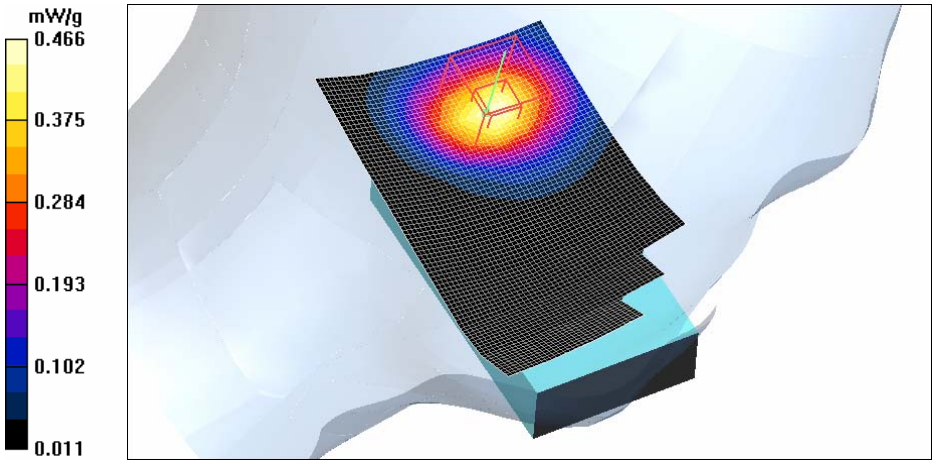
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: GSM1900
Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: HSL1900; Medium Notes: 20.4C
Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.476 mW/g

Cheek position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 18.6 V/m
Peak SAR (extrapolated) = 0.673 W/kg
SAR(1 g) = 0.425 mW/g
SAR(10 g) = 0.242 mW/g
Power Drift = -0.011 dB
Maximum value of SAR (measured) = 0.466 mW/g



Date/Time: 2007-06-26 12:14:26

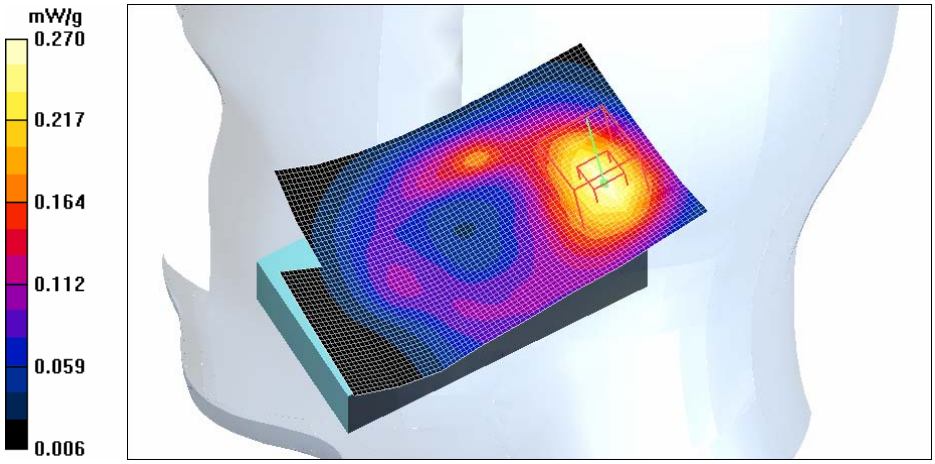
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: GSM1900
Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: HSL1900; Medium Notes: 20.4C
Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.272 mW/g

Cheek position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.3 V/m
Peak SAR (extrapolated) = 0.371 W/kg
SAR(1 g) = 0.243 mW/g
SAR(10 g) = 0.145 mW/g
Power Drift = -0.099 dB
Maximum value of SAR (measured) = 0.270 mW/g



Date/Time: 2007-06-26 12:34:14

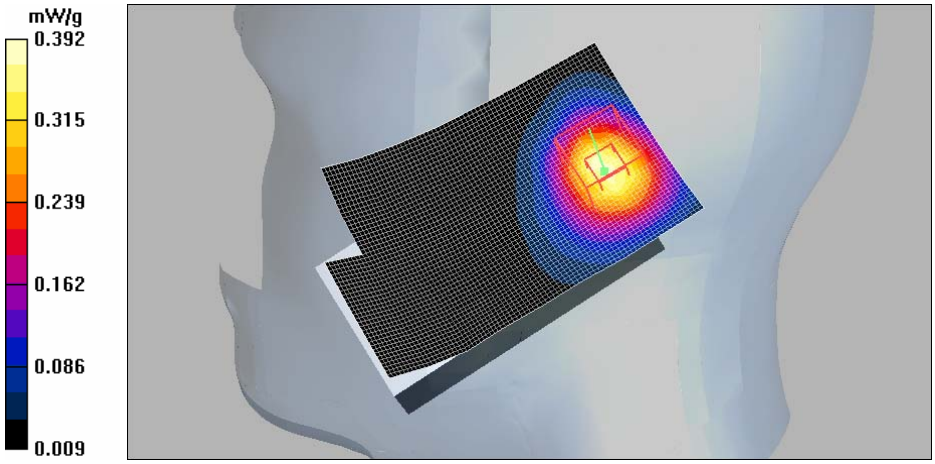
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: GSM1900
Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: HSL1900; Medium Notes: 20.4C
Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.394 mW/g

Tilt position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 17.1 V/m
Peak SAR (extrapolated) = 0.544 W/kg
SAR(1 g) = 0.354 mW/g
SAR(10 g) = 0.205 mW/g
Power Drift = -0.001 dB
Maximum value of SAR (measured) = 0.392 mW/g



Date/Time: 2007-06-26 14:32:24

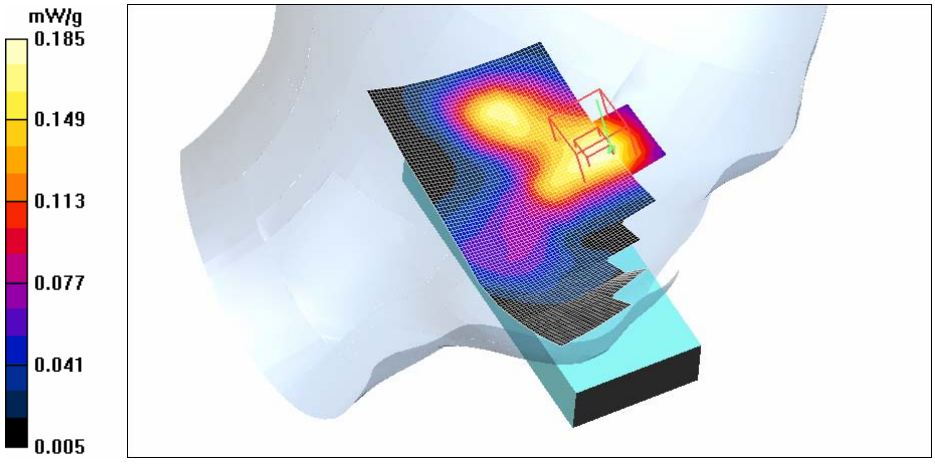
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: GSM1900
Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: HSL1900; Medium Notes: 20.5C
Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, open/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.186 mW/g

Cheek position, Middle, open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 11.2 V/m
Peak SAR (extrapolated) = 0.334 W/kg
SAR(1 g) = 0.175 mW/g
SAR(10 g) = 0.098 mW/g
Power Drift = -0.054 dB
Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.
Maximum value of SAR (measured) = 0.185 mW/g



Date/Time: 2007-06-26 14:55:08

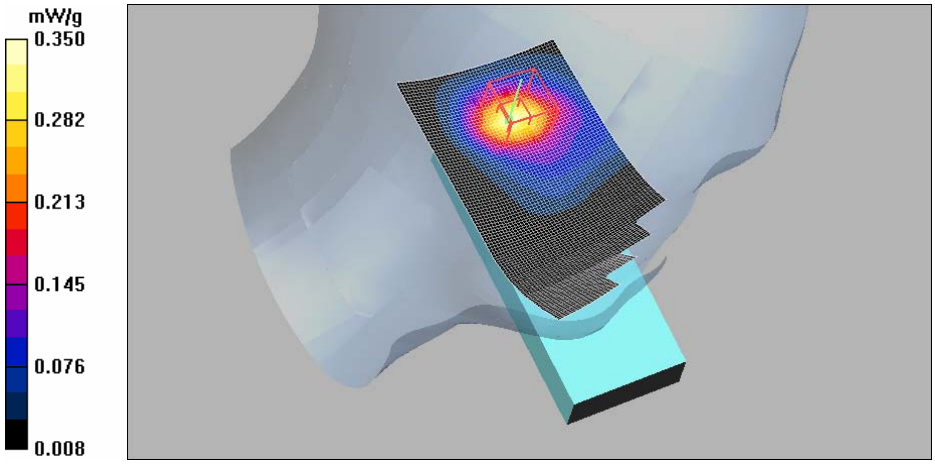
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: GSM1900
Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: HSL1900; Medium Notes: 20.4C
Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle, open/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.352 mW/g

Tilt position, Middle, open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.3 V/m
Peak SAR (extrapolated) = 0.493 W/kg
SAR(1 g) = 0.312 mW/g
SAR(10 g) = 0.176 mW/g
Power Drift = 0.000 dB
Maximum value of SAR (measured) = 0.350 mW/g



Date/Time: 2007-06-26 15:31:57

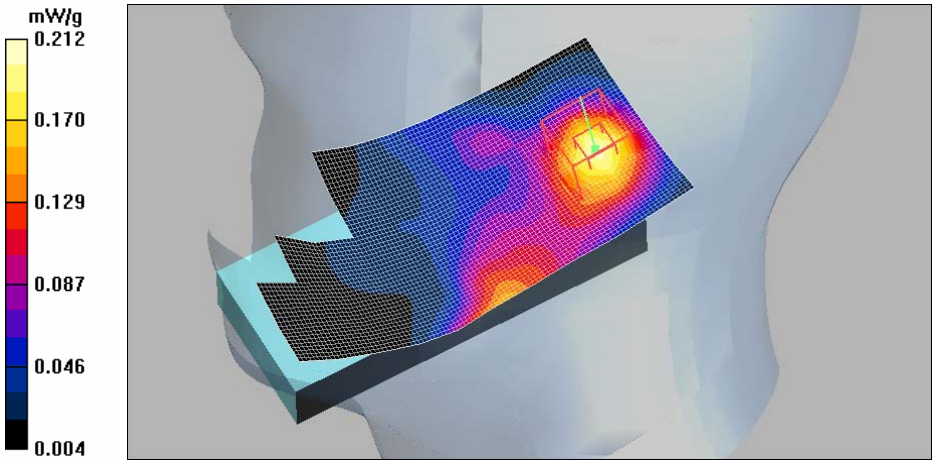
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: GSM1900
Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: HSL1900; Medium Notes: 20.6C
Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, open/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.221 mW/g

Cheek position, Middle, open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 13.0 V/m
Peak SAR (extrapolated) = 0.307 W/kg
SAR(1 g) = 0.189 mW/g
SAR(10 g) = 0.110 mW/g
Power Drift = -0.127 dB
Maximum value of SAR (measured) = 0.212 mW/g



Date/Time: 2007-06-26 15:54:32

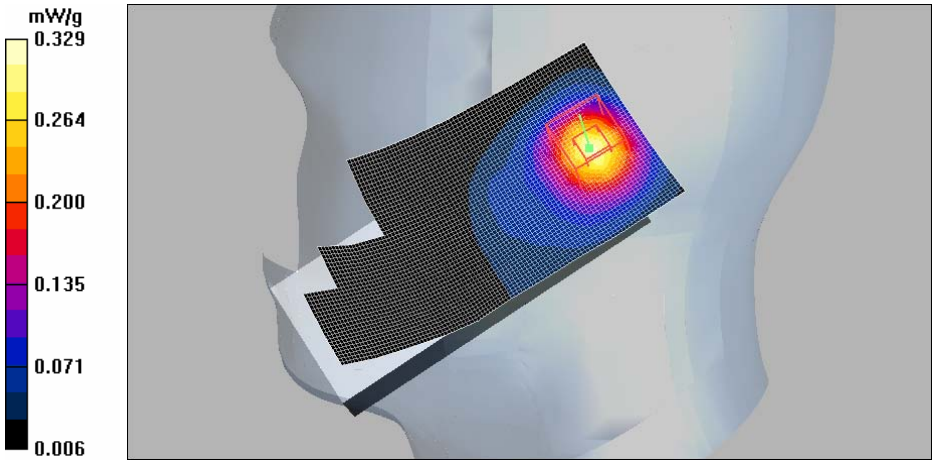
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: GSM1900
Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: HSL1900; Medium Notes: 20.5C
Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle, open/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.333 mW/g

Tilt position, Middle, open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.3 V/m
Peak SAR (extrapolated) = 0.468 W/kg
SAR(1 g) = 0.292 mW/g
SAR(10 g) = 0.163 mW/g
Power Drift = -0.034 dB
Maximum value of SAR (measured) = 0.329 mW/g



Date/Time: 2007-06-26 10:23:51

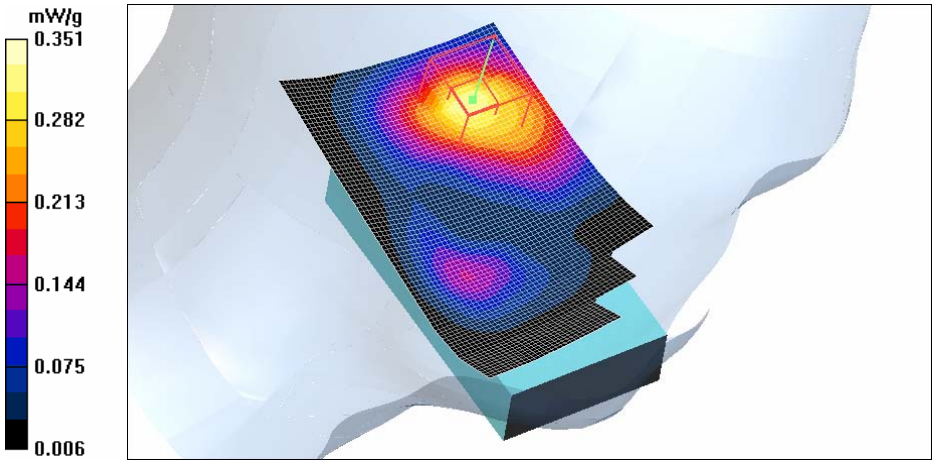
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: 2-slot GPRS1900
Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium: HSL1900; Medium Notes: 20.4C
Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.321 mW/g

Cheek position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.2 V/m
Peak SAR (extrapolated) = 0.528 W/kg
SAR(1 g) = 0.311 mW/g
SAR(10 g) = 0.176 mW/g
Power Drift = -0.035 dB
Maximum value of SAR (measured) = 0.351 mW/g



Date/Time: 2007-06-26 10:43:01

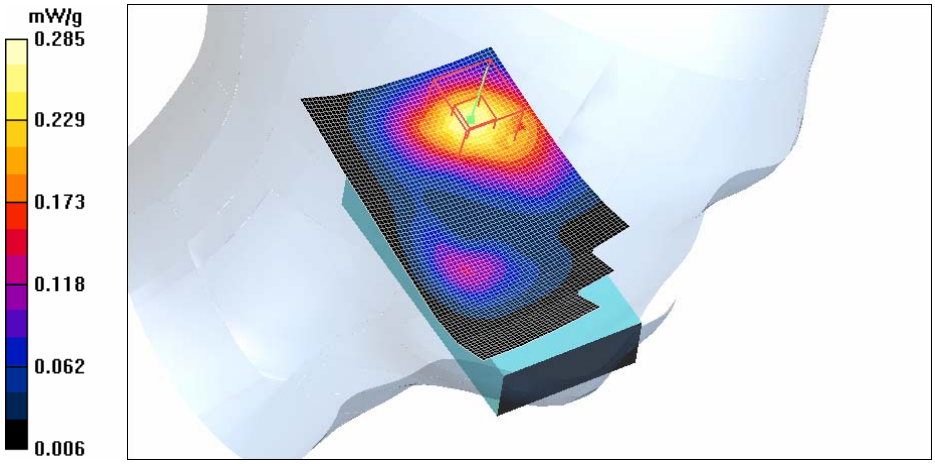
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: 3-slot GPRS1900
Frequency: 1880 MHz; Duty Cycle: 1:2.8
Medium: HSL1900; Medium Notes: 20.4C
Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.266 mW/g

Cheek position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 13.0 V/m
Peak SAR (extrapolated) = 0.423 W/kg
SAR(1 g) = 0.257 mW/g
SAR(10 g) = 0.148 mW/g
Power Drift = -0.022 dB
Maximum value of SAR (measured) = 0.285 mW/g



Date/Time: 2007-06-26 17:22:15

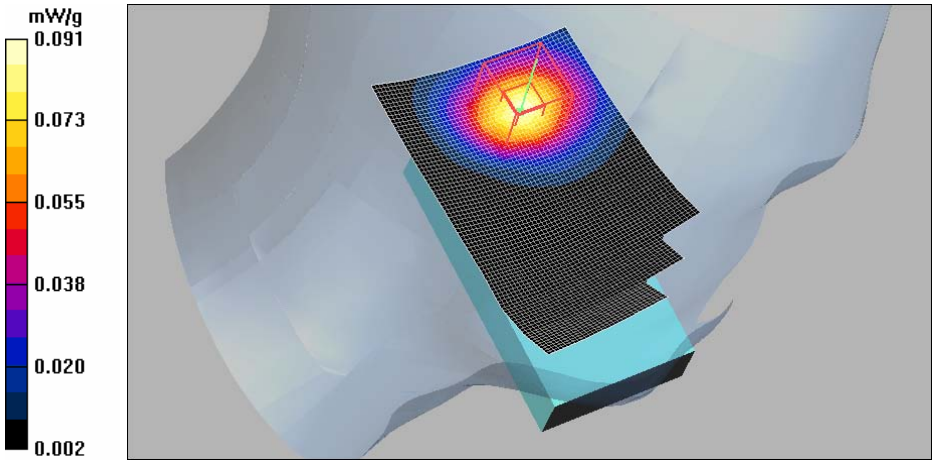
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: 1-slot 8PSK EGPRS1900
Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: HSL1900; Medium Notes: 20.3C
Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.091 mW/g

Tilt position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 7.95 V/m
Peak SAR (extrapolated) = 0.132 W/kg
SAR(1 g) = 0.082 mW/g
SAR(10 g) = 0.047 mW/g
Power Drift = 0.011 dB
Maximum value of SAR (measured) = 0.091 mW/g



Date/Time: 2007-06-26 17:51:51

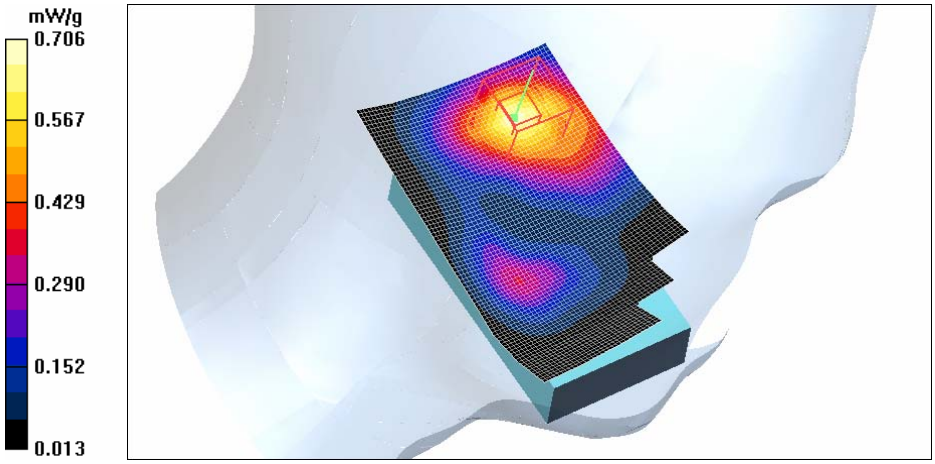
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: WCDMA1900
Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL1900; Medium Notes: 20.2C
Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.672 mW/g

Cheek position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 20.0 V/m
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.628 mW/g
SAR(10 g) = 0.355 mW/g
Power Drift = -0.197 dB
Maximum value of SAR (measured) = 0.706 mW/g



Date/Time: 2007-06-26 18:11:08

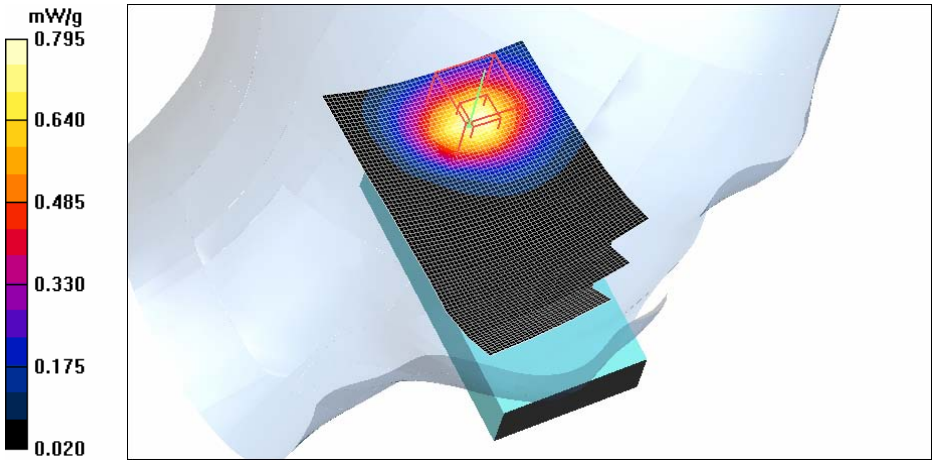
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: WCDMA1900
Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL1900; Medium Notes: 20.2C
Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.815 mW/g

Tilt position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.8 V/m
Peak SAR (extrapolated) = 1.18 W/kg
SAR(1 g) = 0.733 mW/g
SAR(10 g) = 0.418 mW/g
Power Drift = -0.010 dB
Maximum value of SAR (measured) = 0.795 mW/g



Date/Time: 2007-06-26 19:01:40

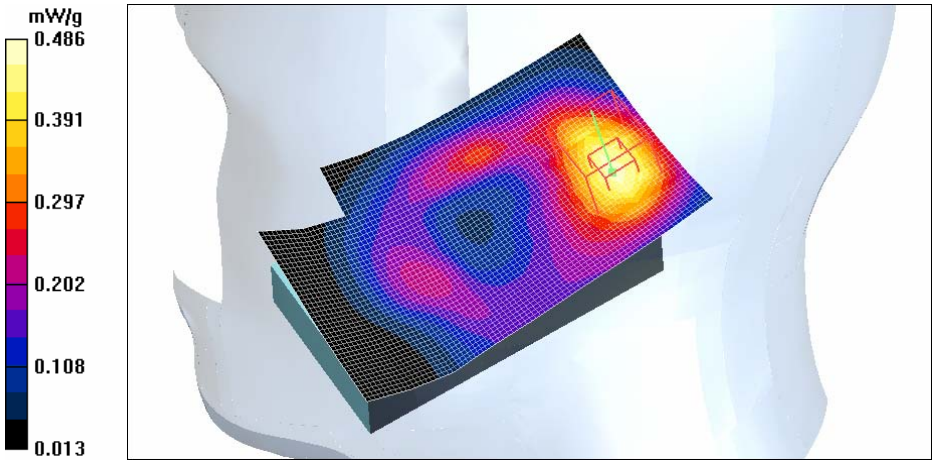
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: WCDMA1900
Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL1900; Medium Notes: 20.5C
Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.507 mW/g

Cheek position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 19.1 V/m
Peak SAR (extrapolated) = 0.669 W/kg
SAR(1 g) = 0.440 mW/g
SAR(10 g) = 0.262 mW/g
Power Drift = -0.192 dB
Maximum value of SAR (measured) = 0.486 mW/g



Date/Time: 2007-06-26 19:22:51

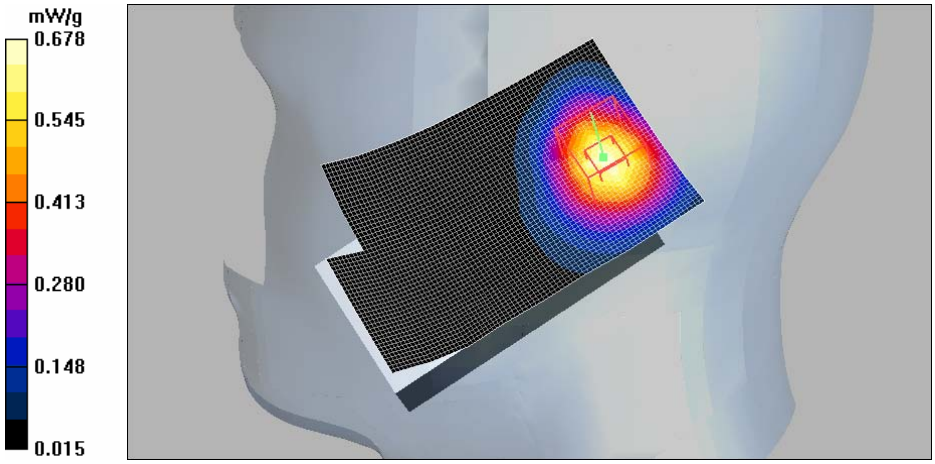
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: WCDMA1900
Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL1900; Medium Notes: 20.5C
Medium parameters used: f = 1880 MHz; σ = 1.39 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.709 mW/g

Tilt position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.1 V/m
Peak SAR (extrapolated) = 0.936 W/kg
SAR(1 g) = 0.618 mW/g
SAR(10 g) = 0.361 mW/g
Power Drift = -0.075 dB
Maximum value of SAR (measured) = 0.678 mW/g



Date/Time: 2007-06-27 17:23:13

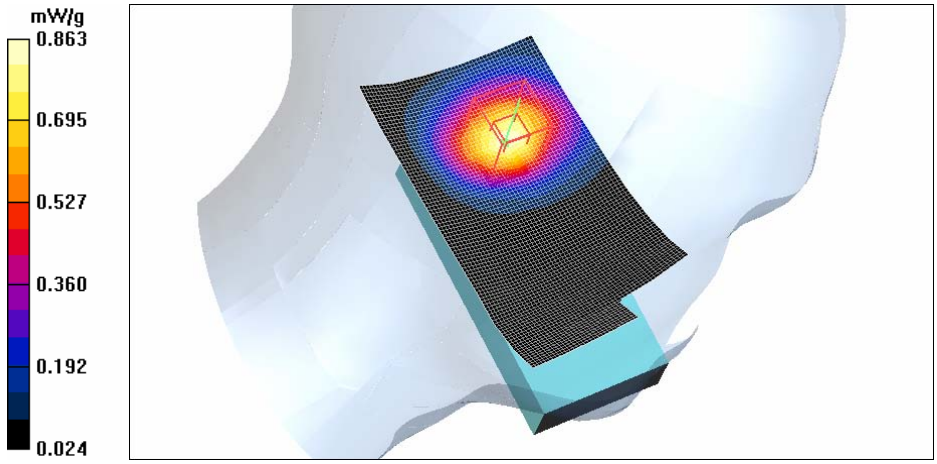
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: WCDMA1900
Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: HSL1900; Medium Notes: 20.3C
Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.37 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Low, MPS/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.868 mW/g

Tilt position, Low, MPS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 25.4 V/m
Peak SAR (extrapolated) = 1.20 W/kg
SAR(1 g) = 0.793 mW/g
SAR(10 g) = 0.471 mW/g
Power Drift = -0.133 dB
Maximum value of SAR (measured) = 0.863 mW/g



Date/Time: 2007-06-27 18:56:23

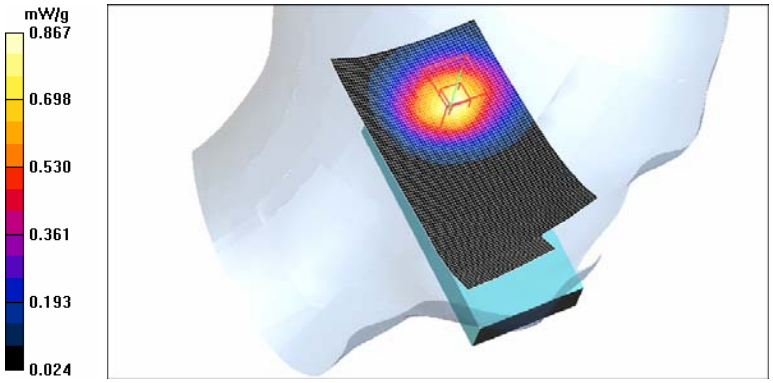
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

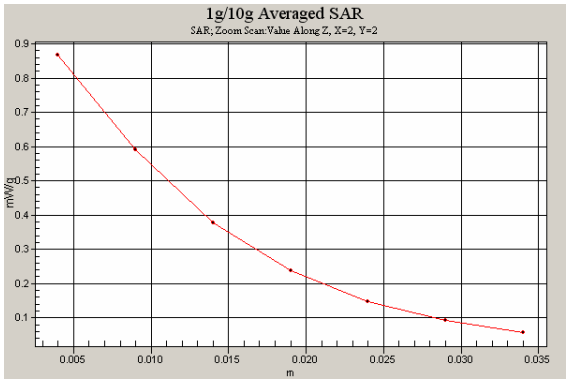
Communication System: WCDMA1900
Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: HSL1900; Medium Notes: 20.3C
Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.37 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(5.28, 5.28, 5.28); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Low, MPS, BT/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.875 mW/g

Tilt position, Low, MPS, BT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 25.5 V/m
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.799 mW/g
SAR(10 g) = 0.476 mW/g
Power Drift = -0.127 dB
Maximum value of SAR (measured) = 0.867 mW/g





Date/Time: 2007-06-28 16:48:14

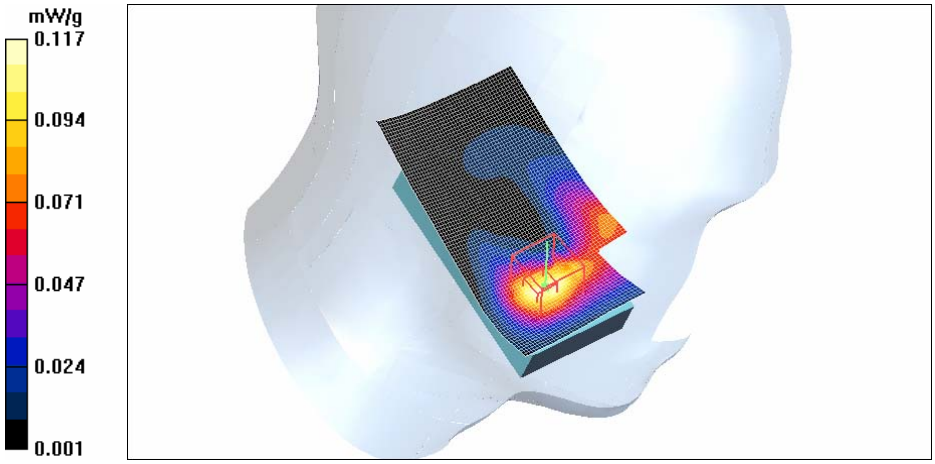
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WLAN2450
Frequency: 2442 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: t=20.4C
Medium parameters used: f = 2442 MHz; σ = 1.8 mho/m; ε_r = 39.1; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(4.38, 4.38, 4.38); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.126 mW/g

Cheek position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 2.60 V/m
Peak SAR (extrapolated) = 0.206 W/kg
SAR(1 g) = 0.107 mW/g
SAR(10 g) = 0.056 mW/g
Power Drift = -0.304 dB
Maximum value of SAR (measured) = 0.117 mW/g



Date/Time: 2007-06-28 17:05:01

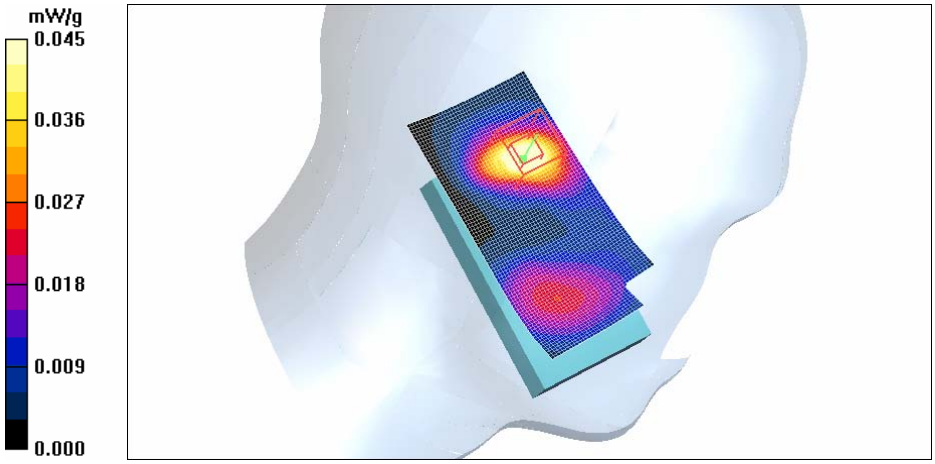
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WLAN2450
Frequency: 2442 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: t=20.4C
Medium parameters used: f = 2442 MHz; σ = 1.8 mho/m; ε_r = 39.1; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(4.38, 4.38, 4.38); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle, closed/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.053 mW/g

Tilt position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 4.75 V/m
Peak SAR (extrapolated) = 0.082 W/kg
SAR(1 g) = 0.043 mW/g
SAR(10 g) = 0.022 mW/g
Power Drift = 0.011 dB
Maximum value of SAR (measured) = 0.045 mW/g



Date/Time: 2007-06-28 19:01:59

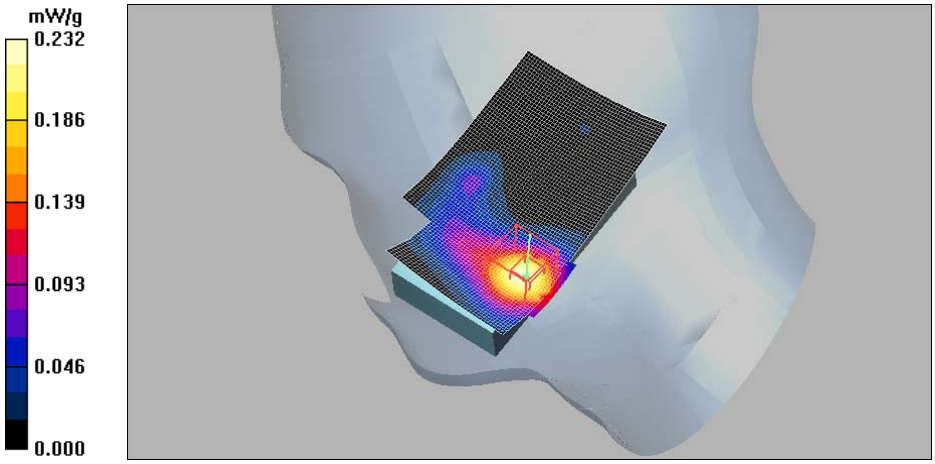
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WLAN2450
Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: T=20.2C
Medium parameters used: f = 2462 MHz; σ = 1.83 mho/m; ε_r = 39; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(4.38, 4.38, 4.38); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, High, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.222 mW/g

Cheek position, High, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 3.26 V/m
Peak SAR (extrapolated) = 0.511 W/kg
SAR(1 g) = 0.212 mW/g
SAR(10 g) = 0.102 mW/g
Power Drift = 0.000 dB
Maximum value of SAR (measured) = 0.232 mW/g



Date/Time: 2007-06-28 18:16:29

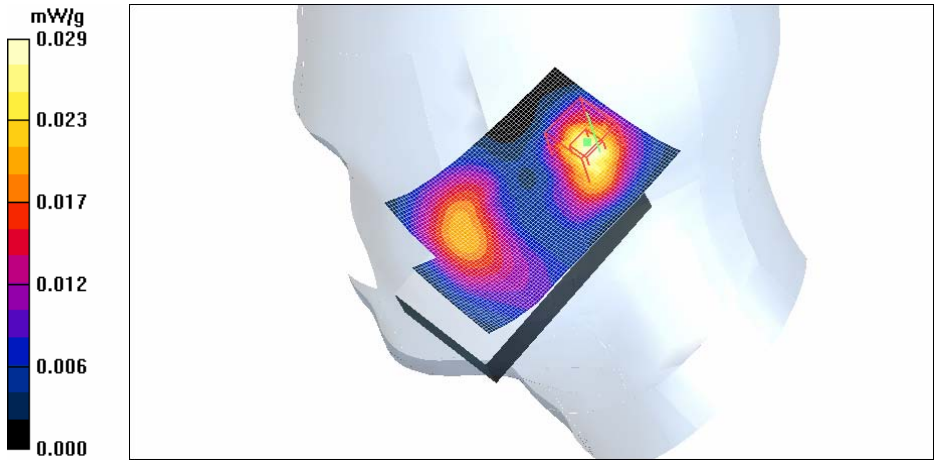
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WLAN2450
Frequency: 2442 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: T=20.3C
Medium parameters used: f = 2442 MHz; σ = 1.8 mho/m; ε_r = 39.1; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(4.38, 4.38, 4.38); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle, closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.029 mW/g

Tilt position, Middle, closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 4.29 V/m
Peak SAR (extrapolated) = 0.051 W/kg
SAR(1 g) = 0.027 mW/g
SAR(10 g) = 0.014 mW/g
Power Drift = 0.067 dB
Maximum value of SAR (measured) = 0.029 mW/g



Date/Time: 2007-06-29 11:53:01

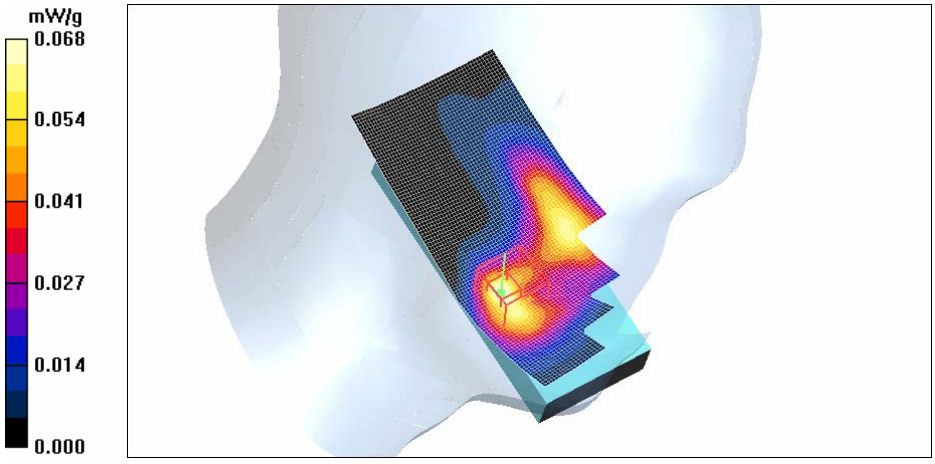
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WLAN2450
Frequency: 2442 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: 20.3C
Medium parameters used: f = 2442 MHz; σ = 1.82 mho/m; ε_r = 38.8; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(4.38, 4.38, 4.38); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, Middle, open/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.070 mW/g

Cheek position, Middle, open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 2.16 V/m
Peak SAR (extrapolated) = 0.119 W/kg
SAR(1 g) = 0.061 mW/g
SAR(10 g) = 0.032 mW/g
Power Drift = 0.178 dB
Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.
Maximum value of SAR (measured) = 0.068 mW/g



Date/Time: 2007-06-29 12:12:22

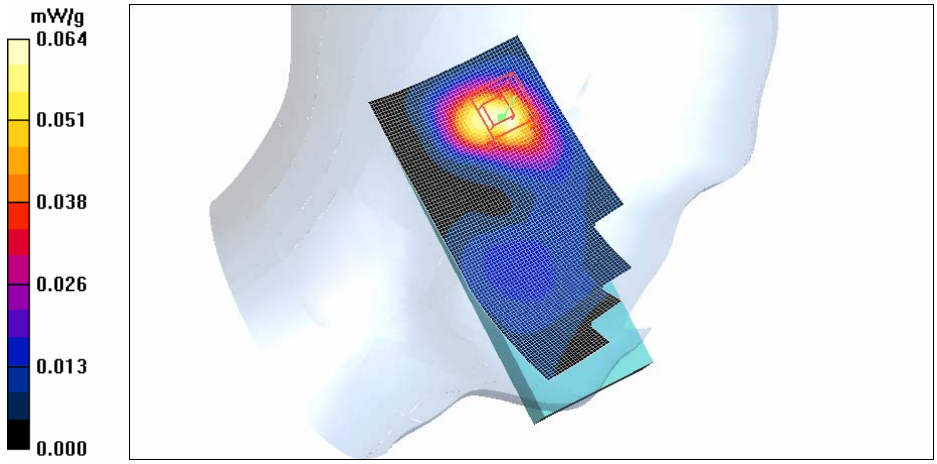
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WLAN2450
Frequency: 2442 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: 20.3C
Medium parameters used: f = 2442 MHz; σ = 1.82 mho/m; ε_r = 38.8; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(4.38, 4.38, 4.38); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle, open/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.064 mW/g

Tilt position, Middle, open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 5.71 V/m
Peak SAR (extrapolated) = 0.119 W/kg
SAR(1 g) = 0.062 mW/g
SAR(10 g) = 0.032 mW/g
Power Drift = 0.079 dB
Maximum value of SAR (measured) = 0.064 mW/g



Date/Time: 2007-06-29 15:34:47

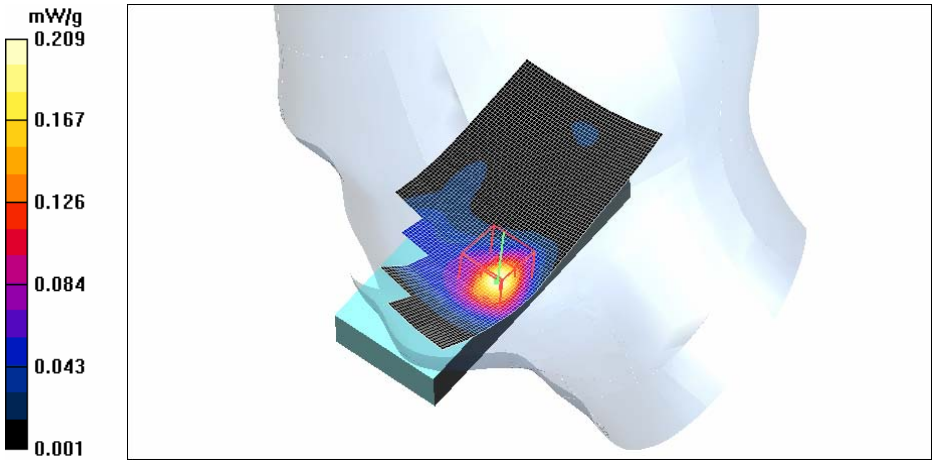
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WLAN2450
Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: 19.9C
Medium parameters used: f = 2462 MHz; σ = 1.85 mho/m; ε_r = 38.7; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(4.38, 4.38, 4.38); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, High, open/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.215 mW/g

Cheek position, High, open/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 3.34 V/m
Peak SAR (extrapolated) = 0.406 W/kg
SAR(1 g) = 0.181 mW/g
SAR(10 g) = 0.082 mW/g
Power Drift = 0.017 dB
Maximum value of SAR (measured) = 0.209 mW/g



Date/Time: 2007-06-29 13:41:16

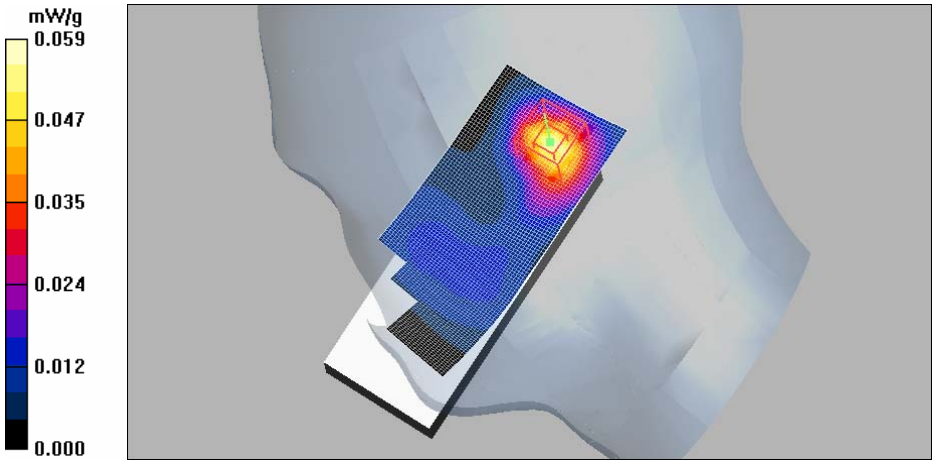
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WLAN2450
Frequency: 2442 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: 20.1C
Medium parameters used: f = 2442 MHz; σ = 1.82 mho/m; ε_r = 38.8; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(4.38, 4.38, 4.38); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position, Middle/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.059 mW/g

Tilt position, Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 5.67 V/m
Peak SAR (extrapolated) = 0.099 W/kg
SAR(1 g) = 0.052 mW/g
SAR(10 g) = 0.026 mW/g
Power Drift = -0.014 dB
Maximum value of SAR (measured) = 0.059 mW/g



Date/Time: 2007-06-29 17:04:31

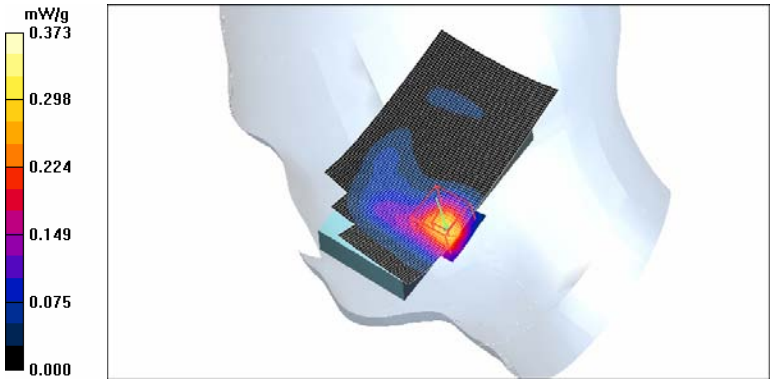
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

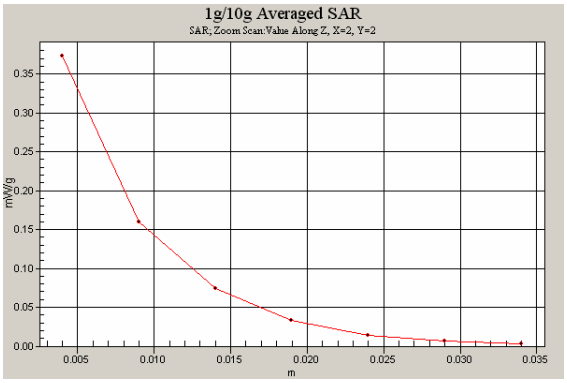
Communication System: WLAN2450
Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: HSL2450; Medium Notes: 19.6C
Medium parameters used: f = 2462 MHz; σ = 1.85 mho/m; ε_r = 38.7; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(4.38, 4.38, 4.38); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek position, High, MPS/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.303 mW/g

Cheek position, High, MPS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 4.20 V/m
Peak SAR (extrapolated) = 0.929 W/kg
SAR(1 g) = 0.334 mW/g
SAR(10 g) = 0.137 mW/g
Power Drift = -0.100 dB
Maximum value of SAR (measured) = 0.373 mW/g





Date/Time: 2007-07-02 11:11:09

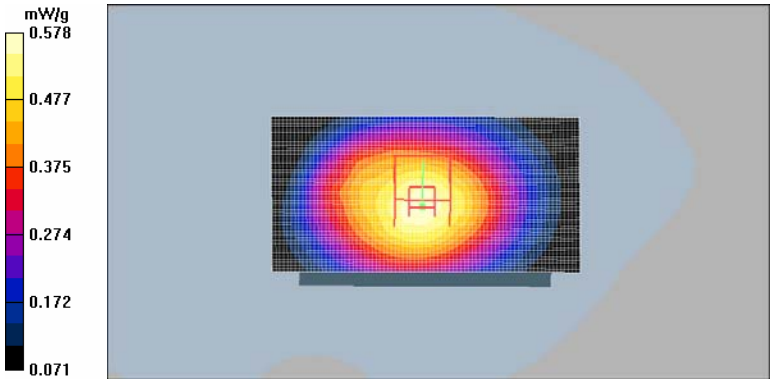
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

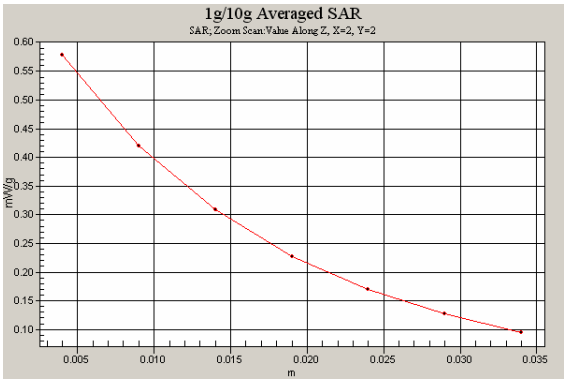
Communication System: GSM850
Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium: BSL850; Medium Notes: 20.8C
Medium parameters used: f = 837 MHz; σ = 1 mho/m; ε_r = 54.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.85, 5.85, 5.85); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 3; Type: SAM 4.0; Serial: 1272
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Measurement, Middle, Closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.579 mW/g

Body Measurement, Middle, Closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.4 V/m
Peak SAR (extrapolated) = 0.727 W/kg
SAR(1 g) = 0.542 mW/g
SAR(10 g) = 0.387 mW/g
Power Drift = -0.025 dB
Maximum value of SAR (measured) = 0.578 mW/g





Date/Time: 2007-07-02 10:06:45

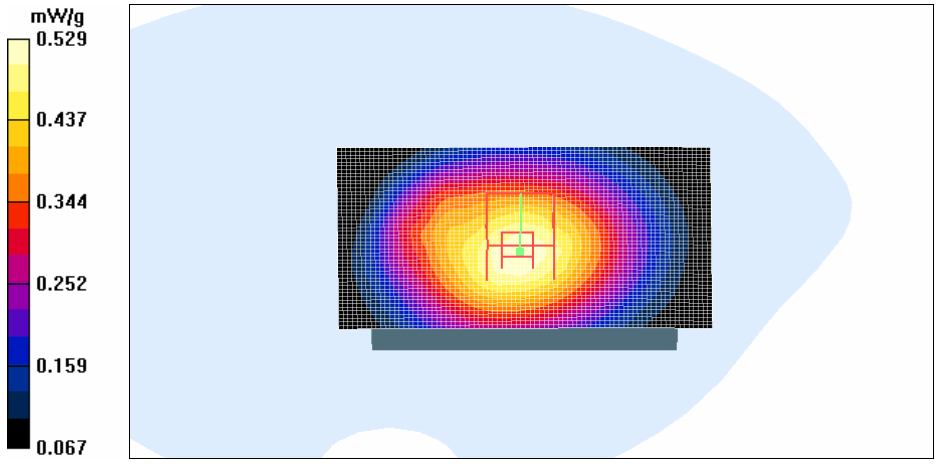
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: GSM850
Frequency: 824.2 MHz; Duty Cycle: 1:8.3
Medium: BSL850; Medium Notes: 20.8C
Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.995 mho/m; ε_r = 54.7; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.85, 5.85, 5.85); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 3; Type: SAM 4.0; Serial: 1272
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Measurement, Low, Closed, HS-45 + AD-43/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.524 mW/g

Body Measurement, Low, Closed, HS-45 + AD-43/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.7 V/m
Peak SAR (extrapolated) = 0.664 W/kg
SAR(1 g) = 0.498 mW/g
SAR(10 g) = 0.356 mW/g
Power Drift = -0.013 dB
Maximum value of SAR (measured) = 0.529 mW/g



Date/Time: 2007-07-02 14:13:30

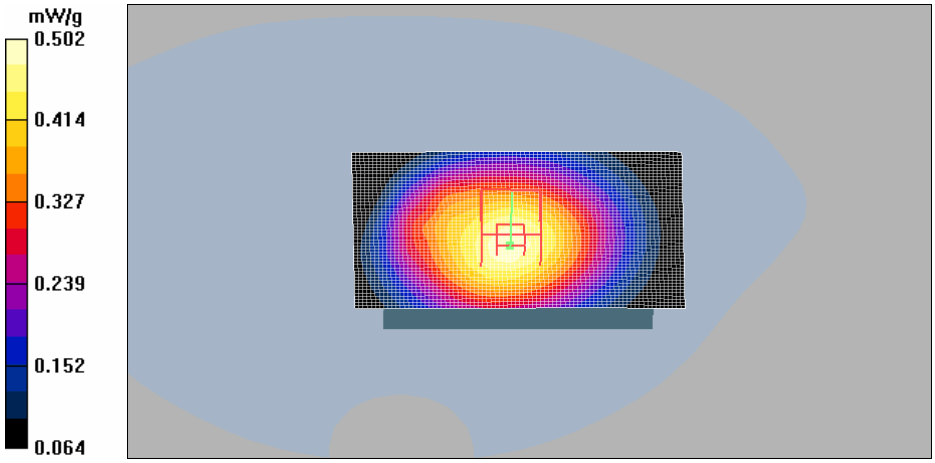
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WCDMA850
Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: BSL850; Medium Notes: 20.5C
Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.997 mho/m; ε_r = 54.7; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.85, 5.85, 5.85); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 3; Type: SAM 4.0; Serial: 1272
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Measurement, Low, Closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.498 mW/g

Body Measurement, Low, Closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.8 V/m
Peak SAR (extrapolated) = 0.623 W/kg
SAR(1 g) = 0.470 mW/g
SAR(10 g) = 0.338 mW/g
Power Drift = 0.007 dB
Maximum value of SAR (measured) = 0.502 mW/g



Date/Time: 2007-07-02 13:56:47

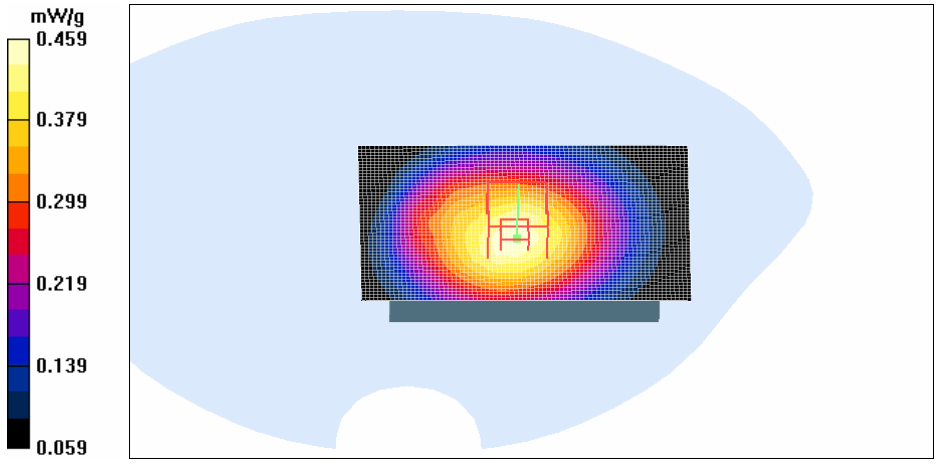
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WCDMA850
Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: BSL850; Medium Notes: 20.5C
Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.997 mho/m; ε_r = 54.7; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.85, 5.85, 5.85); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 3; Type: SAM 4.0; Serial: 1272
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Measurement, Low, Closed, HS-45 + AD-43/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.459 mW/g

Body Measurement, Low, Closed, HS-45 + AD-43/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.1 V/m
Peak SAR (extrapolated) = 0.568 W/kg
SAR(1 g) = 0.431 mW/g
SAR(10 g) = 0.310 mW/g
Power Drift = -0.019 dB
Maximum value of SAR (measured) = 0.459 mW/g



Date/Time: 2007-07-02 14:37:09

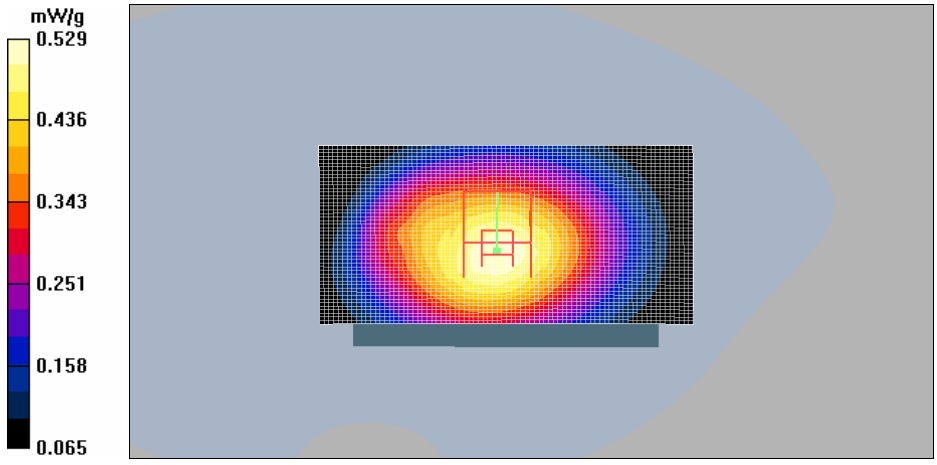
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: GSM850
Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium: BSL850; Medium Notes: 20.5C
Medium parameters used: f = 837 MHz; σ = 1 mho/m; ε_r = 54.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1766
- ConvF(5.85, 5.85, 5.85); Calibrated: 2007-03-19
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2007-03-15
- Phantom: SAM 3; Type: SAM 4.0; Serial: 1272
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Measurement, Middle, Closed, BT/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.534 mW/g

Body Measurement, Middle, Closed, BT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.9 V/m
Peak SAR (extrapolated) = 0.663 W/kg
SAR(1 g) = 0.500 mW/g
SAR(10 g) = 0.356 mW/g
Power Drift = -0.058 dB
Maximum value of SAR (measured) = 0.529 mW/g



Date/Time: 2007-06-29 14:58:45

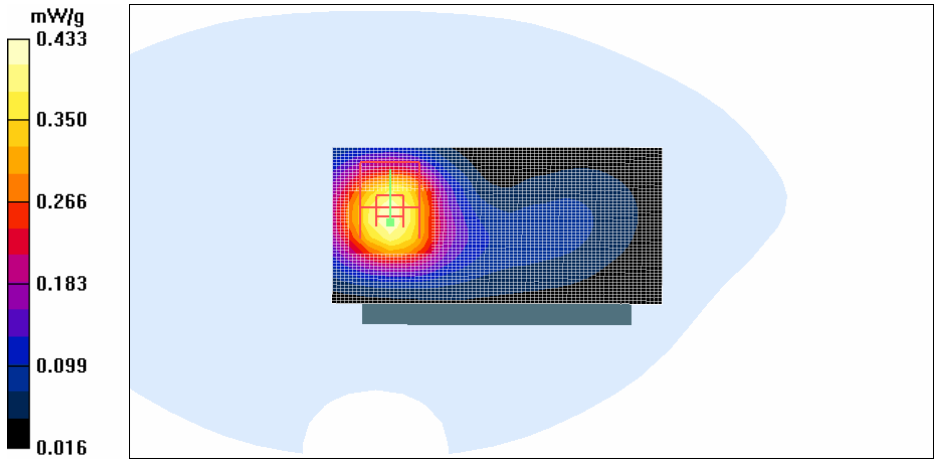
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: GSM1900
Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
Medium: BSL1900; Medium Notes: 20.2C
Medium parameters used: f = 1910 MHz; σ = 1.53 mho/m; ε_r = 52.9; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(4.7, 4.7, 4.7); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Measurement, High, Closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.445 mW/g

Body Measurement, High, Closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 17.5 V/m
Peak SAR (extrapolated) = 0.651 W/kg
SAR(1 g) = 0.403 mW/g
SAR(10 g) = 0.246 mW/g
Power Drift = -0.019 dB
Maximum value of SAR (measured) = 0.433 mW/g



Date/Time: 2007-06-29 14:41:56

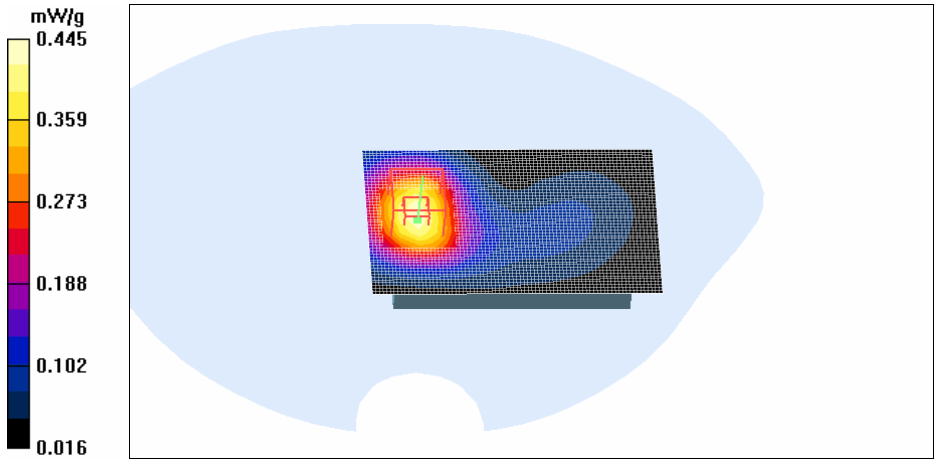
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: GSM1900
Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
Medium: BSL1900; Medium Notes: 20.3C
Medium parameters used: f = 1910 MHz; σ = 1.53 mho/m; ε_r = 52.9; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(4.7, 4.7, 4.7); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Measurement, High, Closed, HS-45+AD43/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.458 mW/g

Body Measurement, High, Closed, HS-45+AD43/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 17.9 V/m
Peak SAR (extrapolated) = 0.674 W/kg
SAR(1 g) = 0.413 mW/g
SAR(10 g) = 0.251 mW/g
Power Drift = -0.047 dB
Maximum value of SAR (measured) = 0.445 mW/g



Date/Time: 2007-06-28 13:44:32

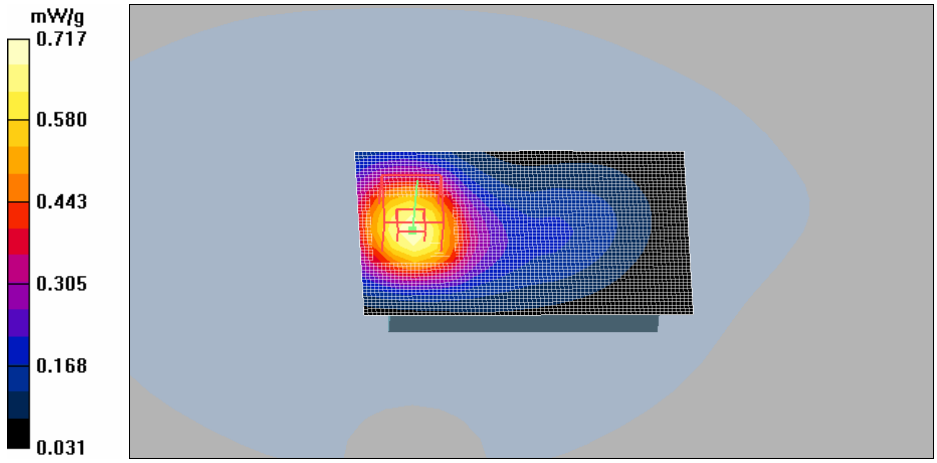
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WCDMA1900
Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: M1900; Medium Notes: 21.1C
Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.49 mho/m; ε_r = 53.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(4.7, 4.7, 4.7); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Measurement, Low, Closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.735 mW/g

Body Measurement, Low, Closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.4 V/m
Peak SAR (extrapolated) = 1.03 W/kg
SAR(1 g) = 0.663 mW/g
SAR(10 g) = 0.414 mW/g
Power Drift = -0.018 dB
Maximum value of SAR (measured) = 0.717 mW/g



Date/Time: 2007-06-28 17:48:17

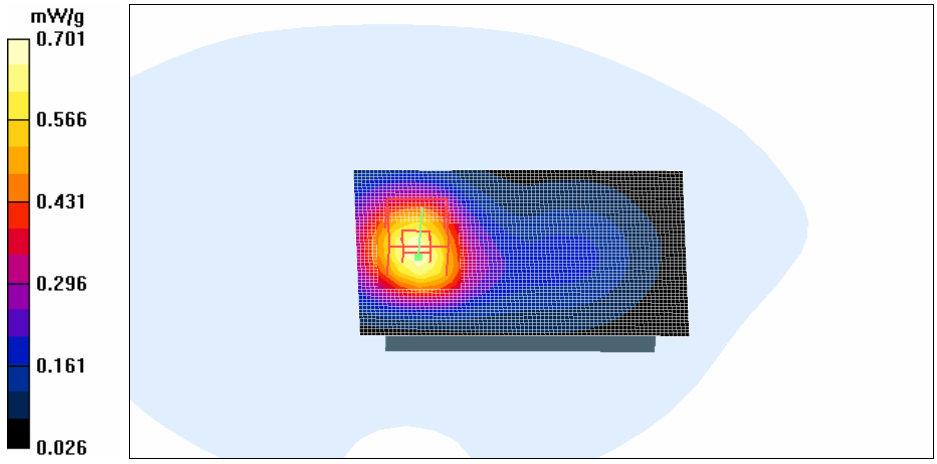
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

Communication System: WCDMA1900
Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1900; Medium Notes: 21.1C
Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 53.1; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(4.7, 4.7, 4.7); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Measurement, Middle, Closed, HS-45 + AD-43/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.726 mW/g

Body Measurement, Middle, Closed, HS-45 + AD-43/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 22.5 V/m
Peak SAR (extrapolated) = 1.03 W/kg
SAR(1 g) = 0.651 mW/g
SAR(10 g) = 0.401 mW/g
Power Drift = -0.036 dB
Maximum value of SAR (measured) = 0.701 mW/g



Date/Time: 2007-06-28 18:47:52

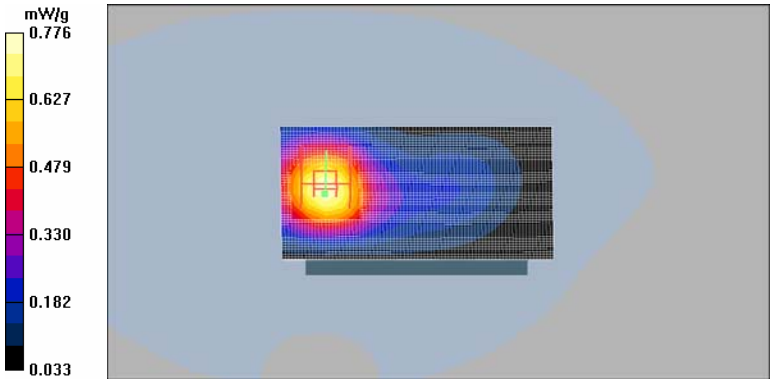
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172024/8

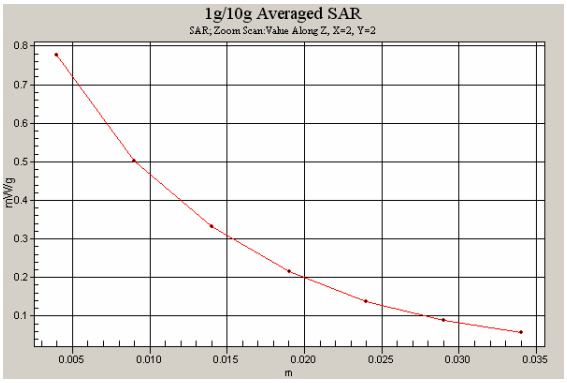
Communication System: WCDMA1900
Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium: M1900; Medium Notes: 21.1C
Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.49 mho/m; ε_r = 53.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(4.7, 4.7, 4.7); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Measurement, Low, Closed, BT/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.801 mW/g

Body Measurement, Low, Closed, BT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 24.3 V/m
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.724 mW/g
SAR(10 g) = 0.451 mW/g
Power Drift = -0.056 dB
Maximum value of SAR (measured) = 0.776 mW/g





Date/Time: 2007-06-28 11:44:46

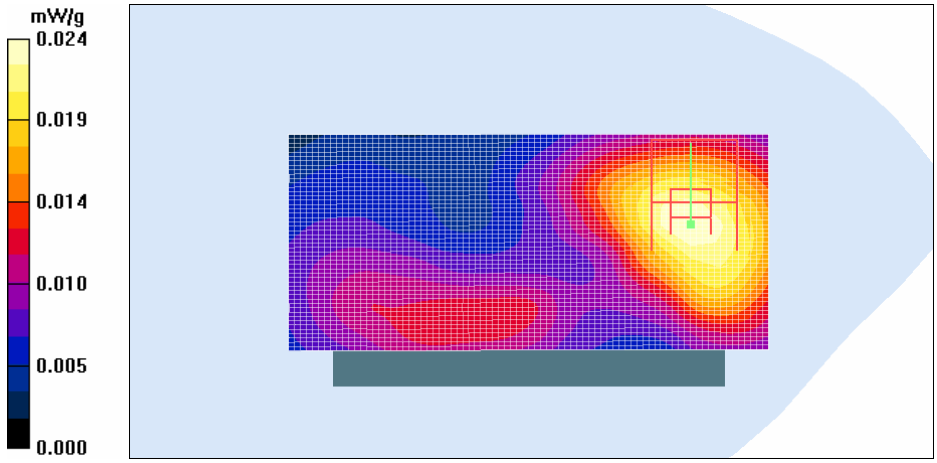
Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WLAN2450
Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: BSL2450; Medium Notes: 21.6C
Medium parameters used: f = 2462 MHz; σ = 1.98 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(4, 4, 4); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Measurement, High, Closed/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.024 mW/g

Body Measurement, High, Closed/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 2.23 V/m
Peak SAR (extrapolated) = 0.040 W/kg
SAR(1 g) = 0.023 mW/g
SAR(10 g) = 0.013 mW/g
Power Drift = -0.369 dB
Maximum value of SAR (measured) = 0.024 mW/g



Date/Time: 2007-06-28 15:10:13

Test Laboratory: TCC Nokia
Type: RM-160; Serial: 004400/82/172025/5

Communication System: WLAN2450
Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: BSL2450; Medium Notes: 21.4C
Medium parameters used: f = 2462 MHz; σ = 1.98 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1396
- ConvF(4, 4, 4); Calibrated: 2007-02-12
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn728; Calibrated: 2007-02-13
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body Measurement, High, Closed, HS-45+AD-43/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.028 mW/g

Body Measurement, High, Closed, HS-45+AD-43/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 2.58 V/m
Peak SAR (extrapolated) = 0.047 W/kg
SAR(1 g) = 0.026 mW/g
SAR(10 g) = 0.016 mW/g
Power Drift = 0.006 dB
Maximum value of SAR (measured) = 0.028 mW/g