

SAR Compliance Test Report

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Testing laboratory:	TCC Nokia Salo Laboratory P.O.Box 86 Joensuunkatu 7H / Kiila 1B FIN-24101 SALO, FINLAND Tel. +358 (0) 7180 08000 Fax. +358 (0) 7180 45220 TCC Nokia San Diego Laboratory	Client:	Nokia Corporation 16620 West Bernardo Drive SAN DIEGO CA. 92127 USA Tel. +1 858 831 5000 Fax. +1 858 385 1598
Responsible test engineer:	Virpi Tuominen	Product contact person:	Victoria Abadilla
Measurements made by:	Angelina Belden, Jose Gomez, Ray Ventura, Janne Hirsimäki, Nina Koskinen, Teuvo Miettinen, Olli Moisio, Jani Tuomela, Juha-Matti Varjonen		
Tested device:	RM-845		
FCC ID:	QMNRM-845	IC:	661X-RM845
Supplement reports:	SAR_Photo_RM-845_06		
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:

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1. SUMMARY OF SAR TEST REPORT

1.1 Test Details

Period of test	2012-07-18 to 2012-09-04
SN, HW and SW numbers of tested device	SN: C1A138246/E2, HW: 0209, SW: 1525.0003.8422.9710.12271, DUT: 16538 SN: C1A138254/F2, HW: 0209, SW: 1525.0003.8422.9710.12271, DUT: 16539 SN: C1A138405/FF2, HW: 0209, SW: 1525.0003.8422.9710.12271, DUT: 16540 SN: C1A138294/B1, HW: 0209, SW: 1525.0003.8422.9710.12271, DUT: 30598 SN: C1A138373/C1, HW: 0209, SW: 1525.0003.8422.9710.12271, DUT: 30608/16575 SN: C1A138226/D1, HW: 0209, SW: 1525.0003.8422.9710.12271, DUT: 30614 SN: C1A138211/A2, HW: 0209, SW: 1525.0003.8422.9710.12271, DUT: 30597 SN: C1A138245/D2, HW: 0209, SW: 1525.0003.8422.9710.12271, DUT: 30613 SN: C1A138223/G1, HW: 0209, SW: 1525.0003.8422.9710.12271, DUT: 16537 SN: C1A138344/G4, HW: 0209, SW: 1525.0003.8422.9710.12271, DUT: 16854 SN: C1A138332/BC1, HW: 0209, SW: 1525.0003.8422.9710.12271, DUT: 30667
Batteries used in testing	BP-4W, DUT: 16524, 16525, 16526, 16527, 16528, 16529, 16530, 16531, 16532, 16533, 30601, 30602, 30607, 30609, 30610
Headsets used in testing	WH-902, DUT: 16534, 16535, 30648
Other accessories used in testing	-
State of sample	Prototype unit
Notes	-

1.2 Maximum Results

The maximum measured SAR values for Head configuration, Body Worn configuration, Wireless Router configuration and Simultaneous Voice LTE (SVLTE) configuration are given in sections 1.2.1, 1.2.2, 1.2.3 and 1.2.4 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)	Conducted power	Position	Measured SAR value (1g avg)	Scaled* SAR value (1g avg)	SAR limit (1g avg)	Result
LTE750	23230 / 782.0	23.52 dBm	Right, Cheek	0.627 W/kg	0.70 W/kg	1.6 W/kg	PASSED
CDMA800	384 / 836.5	23.40 dBm	Left, Cheek	0.708 W/kg	0.79 W/kg	1.6 W/kg	PASSED
4-slot GPRS850	251 / 848.8	26.50 dBm	Left, Cheek	0.904 W/kg	1.01 W/kg	1.6 W/kg	PASSED
WCDMA850	4175 / 835.0	23.25 dBm	Left, Cheek	0.628 W/kg	0.70 W/kg	1.6 W/kg	PASSED
CDMA1900	25 / 1851.3	23.00 dBm	Left, Cheek	1.03 W/kg	1.15 W/kg	1.6 W/kg	PASSED
2-slot GPRS1900	512 / 1850.2	26.7 dBm	Left, Cheek	0.608 W/kg	0.68 W/kg	1.6 W/kg	PASSED
WCDMA1900	9400 / 1880.0	23.05 dBm	Left, Cheek	0.987 W/kg	1.11 W/kg	1.6 W/kg	PASSED
WLAN2450	11 / 2462.0	17.85 dBm	Right, Cheek	0.639 W/kg	0.72 W/kg	1.6 W/kg	PASSED
WLAN5000	56 / 5280.0	11.85 dBm	Right, Cheek	0.259 W/kg	0.29 W/kg	1.6 W/kg	PASSED
LTE750 + WLAN2450	-	-	Right, Cheek	0.750 W/kg	0.84 W/kg	1.6 W/kg	PASSED
CDMA800 + WLAN2450	-	-	Right, Cheek	0.878 W/kg	0.98 W/kg	1.6 W/kg	PASSED
4-slot GPRS850 + WLAN2450	-	-	Right, Cheek	0.904 W/kg	1.01 W/kg	1.6 W/kg	PASSED
WCDMA850 + WLAN2450	-	-	Right, Cheek	0.839 W/kg	0.94 W/kg	1.6 W/kg	PASSED
CDMA1900 + WLAN2450	-	-	Right, Cheek	1.03 W/kg	1.15 W/kg	1.6 W/kg	PASSED
2-slot GPRS1900 + WLAN2450	-	-	Right, Cheek	0.931 W/kg	1.04 W/kg	1.6 W/kg	PASSED
WCDMA1900 + WLAN2450	-	-	Right, Cheek	0.987 W/kg	1.11 W/kg	1.6 W/kg	PASSED
LTE750 + WLAN5000	-	-	Right, Cheek	0.627 W/kg	0.70 W/kg	1.6 W/kg	PASSED
CDMA800 + WLAN5000	-	-	Left, Cheek	0.734 W/kg	0.82 W/kg	1.6 W/kg	PASSED
4-slot GPRS850 + WLAN5000	-	-	Left, Cheek	0.904 W/kg	1.01 W/kg	1.6 W/kg	PASSED
WCDMA850 + WLAN5000	-	-	Left, Cheek	0.635 W/kg	0.71 W/kg	1.6 W/kg	PASSED
CDMA1900 + WLAN5000	-	-	Left, Cheek	1.04 W/kg	1.16 W/kg	1.6 W/kg	PASSED
2-slot GPRS1900 + WLAN5000	-	-	Left, Cheek	0.638 W/kg	0.71 W/kg	1.6 W/kg	PASSED
WCDMA1900 + WLAN5000	-	-	Left, Cheek	0.987 W/kg	1.11 W/kg	1.6 W/kg	PASSED

1.2.2 Body Worn Configuration

Mode	Ch / f(MHz)	Conducted power	Separation distance	Measured SAR value (1g avg)	Scaled* SAR value (1g avg)	SAR limit (1g avg)	Result
LTE750	23230 / 782.0	23.52 dBm	1.5 cm	0.452 W/kg	0.51 W/kg	1.6 W/kg	PASSED
CDMA800	384 / 836.5	23.40 dBm	1.5 cm	0.546 W/kg	0.61 W/kg	1.6 W/kg	PASSED
4-slot GPRS850	190 / 836.6	26.60 dBm	1.5 cm	0.635 W/kg	0.71 W/kg	1.6 W/kg	PASSED
WCDMA850	4175 / 835.0	23.25 dBm	1.5 cm	0.643 W/kg	0.72 W/kg	1.6 W/kg	PASSED
CDMA1900	600 / 1880.0	23.20 dBm	1.5 cm	0.719 W/kg	0.81 W/kg	1.6 W/kg	PASSED
2-slot GPRS1900	661 / 1880.0	26.70 dBm	1.5 cm	0.393 W/kg	0.44 W/kg	1.6 W/kg	PASSED
WCDMA1900	9538 / 1907.6	22.94 dBm	1.5 cm	0.629 W/kg	0.70 W/kg	1.6 W/kg	PASSED
WLAN2450	11 / 2462.0	17.85 dBm	1.5 cm	0.130 W/kg	0.15 W/kg	1.6 W/kg	PASSED
WLAN5000	44 / 5220.0	11.84 dBm	1.5 cm	0.089 W/kg	0.10 W/kg	1.6 W/kg	PASSED
LTE750 + WLAN2450	-	-	1.5 cm	0.452 W/kg	0.51 W/kg	1.6 W/kg	PASSED
CDMA800 + WLAN2450	-	-	1.5 cm	0.597 W/kg	0.67 W/kg	1.6 W/kg	PASSED
4-slot GPRS850 + WLAN2450	-	-	1.5 cm	0.642 W/kg	0.72 W/kg	1.6 W/kg	PASSED
WCDMA850 + WLAN2450	-	-	1.5 cm	0.695 W/kg	0.78 W/kg	1.6 W/kg	PASSED
CDMA1900 + WLAN2450	-	-	1.5 cm	0.787 W/kg	0.88 W/kg	1.6 W/kg	PASSED
2-slot GPRS1900 + WLAN2450	-	-	1.5 cm	0.462 W/kg	0.52 W/kg	1.6 W/kg	PASSED
WCDMA1900 + WLAN2450	-	-	1.5 cm	0.711 W/kg	0.80 W/kg	1.6 W/kg	PASSED
LTE750 + WLAN5000	-	-	1.5 cm	0.452 W/kg	0.51 W/kg	1.6 W/kg	PASSED
CDMA800 + WLAN5000	-	-	1.5 cm	0.592 W/kg	0.66 W/kg	1.6 W/kg	PASSED
4-slot GPRS850 + WLAN5000	-	-	1.5 cm	0.641 W/kg	0.72 W/kg	1.6 W/kg	PASSED
WCDMA850 + WLAN5000	-	-	1.5 cm	0.677 W/kg	0.76 W/kg	1.6 W/kg	PASSED
CDMA1900 + WLAN5000	-	-	1.5 cm	0.719 W/kg	0.81 W/kg	1.6 W/kg	PASSED
2-slot GPRS1900 + WLAN5000	-	-	1.5 cm	0.393 W/kg	0.44 W/kg	1.6 W/kg	PASSED
WCDMA1900 + WLAN5000	-	-	1.5 cm	0.651 W/kg	0.73 W/kg	1.6 W/kg	PASSED

1.2.3 Wireless Router Configuration

Summary of Maximum Results for Wireless Router mode at 10.0mm

Mode	Ch / f(MHz)	Conducted power	Separation distance	Measured SAR value (1g avg)	Scaled* SAR value (1g avg)	SAR limit (1g avg)	Result
LTE750**	23230 / 782.0	23.12 dBm	10.0 mm	0.766 W/kg	0.86 W/kg	1.6 W/kg	PASSED
CDMA800	1013 / 824.7	23.54 dBm	10.0 mm	0.810 W/kg	0.91 W/kg	1.6 W/kg	PASSED
4-slot GPRS850	190 / 836.6	26.60 dBm	10.0 mm	0.764 W/kg	0.86 W/kg	1.6 W/kg	PASSED
WCDMA850	4233 / 846.6	23.33 dBm	10.0 mm	0.681 W/kg	0.76 W/kg	1.6 W/kg	PASSED
CDMA1900	600 / 1880.0	22.60 dBm	10.0 mm	1.06 W/kg	1.19 W/kg	1.6 W/kg	PASSED
2-slot GPRS1900	661 / 1880.0	26.70 dBm	10.0 mm	0.674 W/kg	0.75 W/kg	1.6 W/kg	PASSED
WCDMA1900	9400 / 1880.0	22.11 dBm	10.0 mm	0.803 W/kg	0.90 W/kg	1.6 W/kg	PASSED
WLAN2450	11 / 2462.0	17.85 dBm	10.0 mm	0.258 W/kg	0.29 W/kg	1.6 W/kg	PASSED
LTE750** + WLAN2450	-	-	10.0 mm	0.766 W/kg	0.86 W/kg	1.6 W/kg	PASSED
CDMA800 + WLAN2450	-	-	10.0 mm	0.889 W/kg	1.00 W/kg	1.6 W/kg	PASSED
4-slot GPRS850 + WLAN2450	-	-	10.0 mm	0.764 W/kg	0.86 W/kg	1.6 W/kg	PASSED
WCDMA850 + WLAN2450	-	-	10.0 mm	0.688 W/kg	0.77 W/kg	1.6 W/kg	PASSED
CDMA1900 + WLAN2450	-	-	10.0 mm	1.12 W/kg	1.25 W/kg	1.6 W/kg	PASSED
2-slot GPRS1900 + WLAN2450	-	-	10.0 mm	0.730 W/kg	0.82 W/kg	1.6 W/kg	PASSED
WCDMA1900 + WLAN2450	-	-	10.0 mm	0.878 W/kg	0.98 W/kg	1.6 W/kg	PASSED

1.2.4 Simultaneous Voice LTE (SVLTE) Configuration

1.2.4.1 Head Configuration

Mode	Ch / f(MHz)	Conducted power	Position	Measured SAR value (1g avg)	Scaled* SAR value (1g avg)	SAR limit (1g avg)	Result
SVLTE750	23230 / 782.0	23.52 dBm	Right, Cheek	0.698 W/kg	0.78 W/kg	1.6 W/kg	PASSED
SVLTE750**	23230 / 782.0	19.43 dBm	Right, Cheek	0.285 W/kg	0.32 W/kg	1.6 W/kg	PASSED
CDMA800	384 / 836.5	23.40 dBm	Left, Cheek	0.708 W/kg	0.79 W/kg	1.6 W/kg	PASSED
CDMA1900	25 / 1851.3	22.50 dBm	Left, Cheek	1.03 W/kg	1.15 W/kg	1.6 W/kg	PASSED
CDMA1900***	25 / 1851.3	18.91 dBm	Left Cheek	0.367 W/kg	0.41 W/kg	1.6 W/kg	PASSED
WLAN2450	11 / 2462.0	17.85 dBm	Right, Cheek	0.757 W/kg	0.85 W/kg	1.6 W/kg	PASSED
WLAN5000	56 / 5280.0	11.85 dBm	Right, Cheek	0.259 W/kg	0.29 W/kg	1.6 W/kg	PASSED
SVLTE750 + CDMA800	-	-	Right, Cheek	0.960 W/kg	1.08 W/kg	1.6 W/kg	PASSED
SVLTE750 + CDMA1900***			Right, Cheek	0.696 W/kg	1.08 W/kg	1.6 W/kg	PASSED
SVLTE750** + CDMA1900	-	-	Left, Cheek	1.10 W/kg	1.23 W/kg	1.6 W/kg	PASSED
SVLTE750 + CDMA800 + WLAN2450	-	-	Right, Cheek	1.06 W/kg	1.19 W/kg	1.6 W/kg	PASSED
SVLTE750 + CDMA800 + WLAN5000	-	-	Right, Cheek	0.976 W/kg	1.09 W/kg	1.6 W/kg	PASSED
SVLTE750 + CDMA1900*** + WLAN2450	-	-	Right, Cheek	0.954 W/kg	1.07 W/kg	1.6 W/kg	PASSED
SVLTE750 + CDMA1900*** + WLAN5000	-	-	Right, Cheek	0.701 W/kg	0.79 W/kg	1.6 W/kg	PASSED
SVLTE750** + CDMA1900 + WLAN2450	-	-	Right, Cheek	1.06 W/kg	1.19 W/kg	1.6 W/kg	PASSED
SVLTE750** + CDMA1900 + WLAN5000	-	-	Right, Cheek	1.05 W/kg	1.18 W/kg	1.6 W/kg	PASSED

Note: SVLTE750** indicates reduced-power LTE750
 CDMA1900*** indicates reduced-power CDMA1900
 Full details of power reductions active in SVLTE mode are given in Section 2.1

1.2.4.2 Body Worn Configuration

Mode	Ch / f(MHz)	Conducted power	Separation distance	Measured SAR value (1g avg)	Scaled* SAR value (1g avg)	SAR limit (1g avg)	Result
SVLTE750	23230 / 782.0	23.52 dBm	1.5 cm	0.452 W/kg	0.51 W/kg	1.6 W/kg	PASSED
SVLTE750**	23230 / 782.0	19.43 dBm	1.5 cm	0.193 W/kg	0.22 W/kg	1.6 W/kg	PASSED
CDMA800	384 / 836.5	23.40 dBm	1.5 cm	0.546 W/kg	0.61 W/kg	1.6 W/kg	PASSED
CDMA1900	600 / 1880.0	22.60 dBm	1.5 cm	0.719 W/kg	0.81 W/kg	1.6 W/kg	PASSED
CDMA1900***	25 / 1851.3	18.91 dBm	1.5 cm	0.257 W/kg	0.29 W/kg	1.6 W/kg	PASSED
WLAN2450	11 / 2462.0	17.85 dBm	1.5 cm	0.130 W/kg	0.15 W/kg	1.6 W/kg	PASSED
WLAN5000	44 / 5220.0	11.84 dBm	1.5 cm	0.089 W/kg	0.10 W/kg	1.6 W/kg	PASSED
SVLTE750 + CDMA800	-	-	1.5 cm	0.897 W/kg	1.00 W/kg	1.6 W/kg	PASSED
SVLTE750 + CDMA1900***	-	-	1.5 cm	0.568 W/kg	0.64 W/kg	1.6 W/kg	PASSED
SVLTE750** + CDMA1900	-	-	1.5 cm	0.767 W/kg	0.86 W/kg	1.6 W/kg	PASSED
SVLTE750 + CDMA800 + WLAN2450	-	-	1.5 cm	0.920 W/kg	1.03 W/kg	1.6 W/kg	PASSED
SVLTE750 + CDMA800 + WLAN5000	-	-	1.5 cm	0.915 W/kg	1.02 W/kg	1.6 W/kg	PASSED
SVLTE750 + CDMA1900*** + WLAN2450	-	-	1.5 cm	0.533 W/kg	0.60 W/kg	1.6 W/kg	PASSED
SVLTE750 + CDMA1900*** + WLAN5000	-	-	1.5 cm	0.567 W/kg	0.64 W/kg	1.6 W/kg	PASSED
SVLTE750** + CDMA1900 + WLAN2450	-	-	1.5 cm	0.801 W/kg	0.90 W/kg	1.6 W/kg	PASSED
SVLTE750** + CDMA1900 + WLAN5000	-	-	1.5 cm	0.775 W/kg	0.87 W/kg	1.6 W/kg	PASSED

Note: SVLTE750** indicates reduced-power LTE750
 CDMA1900*** indicates reduced-power CDMA1900
 Full details of power reductions active in SVLTE mode are given in Section 2.1

1.2.5 Summary SAR data

		FCC-defined SAR values for the Grants of Equipment Authorization
Maximum Cellular/AWS/PCS Head SAR value		1.15 W/kg
Maximum WLAN Head SAR value		0.72 W/kg
{Max + Max} Simultaneous Head SAR value	1.51 W/kg †	
Maximum Cellular/AWS/PCS Body SAR value		0.81 W/kg
Maximum WLAN Body SAR value		0.15 W/kg
{Max + Max} Simultaneous Body SAR value	0.96 W/kg	
Maximum Product Specific (Wireless Router) SAR value		1.19 W/kg
Maximum Simultaneous SAR value		1.51 W/kg^{††}

†From Section 7.1:

The highest {Max + Max} Simultaneous Head SAR value is 1.472W/kg for CDMA1900+WLAN2450 Right Cheek test configuration which, when scaled up by 12%, becomes 1.649W/kg i.e. > 1.6W/kg. However, as the separation distance between the SAR peaks is 6.89cm, the Antenna Pair SAR to Peak Separation Ratio is $1.649 / 6.89 = 0.24$ i.e. < 0.3, hence Simultaneous Transmission Procedures as described in KDB648474 are not required.

The second highest {Max + Max} Simultaneous Head SAR value is 1.330W/kg for WCDMA1900+WLAN2450 Right Cheek test configuration which, when scaled up by 12%, becomes 1.49W/kg.

From Section 7.4.1:

The highest {Max + Max} Simultaneous Head SAR value in SVLTE mode is 1.822 W/kg for SVLTE750+CDMA800+WLAN2450 Right Cheek test configuration which, when scaled up by 12%, becomes 2.041 W/kg i.e. > 1.6W/kg. As the Antenna Pair SAR to Peak Separation Ratio for some of the transmitter combinations > 0.3, Simultaneous Transmission Procedures according to KDB648474 D01 SAR Handsets Multi Xmitter and Ant, v01r05 were performed. The resulting combined SAR value was 1.06 W/kg which becomes 1.19 W/kg when scaled.

The second highest {Max + Max} Simultaneous Head SAR value in SVLTE mode is 1.732 W/kg for SVLTE750**+CDMA1900+WLAN2450 Right Cheek test configuration which, when scaled up by 12%, becomes 1.940 W/kg i.e. > 1.6W/kg. As the Antenna Pair SAR to Peak Separation Ratio for some of the transmitter combinations > 0.3, Simultaneous Transmission Procedures according to KDB648474 D01 SAR Handsets Multi Xmitter and Ant, v01r05 were performed. The resulting combined SAR value was 1.06 W/kg which becomes 1.19 W/kg when scaled.

The third {Max + Max} Simultaneous Head SAR value in SVLTE mode is 1.504 W/kg for

SVLTE750+CDMA1900***+WLAN2450 Right Cheek test configuration which, when scaled up by 12%, becomes 1.684 W/kg i.e. > 1.6Wkg. As the Antenna Pair SAR to Peak Separation Ratio for some of the transmitter combinations > 0.3, Simultaneous Transmission Procedures according to KDB648474 D01 SAR Handsets Multi Xmitter and Ant, v01r05 were performed. The resulting combined SAR value was 0.954 W/kg which becomes 1.07 W/kg when scaled.

The fourth highest {Max + Max} Simultaneous Head SAR value in SVLTE mode is 1.442 W/kg for SVLTE750+CDMA800+WLAN5000 Right Cheek test configuration which, when scaled up by 12%, becomes 1.615 W/kg i.e. > 1.6Wkg. As the Antenna Pair SAR to Peak Separation Ratio for some of the transmitter combinations > 0.3, Simultaneous Transmission Procedures according to KDB648474 D01 SAR Handsets Multi Xmitter and Ant, v01r05 were performed. The resulting combined SAR value was 0.8576 W/kg which becomes 0.960 W/kg when scaled.

The fifth highest {Max + Max} Simultaneous Head SAR value in SVLTE mode is 1.352 W/kg for SVLTE750**+CDMA1900+WLAN5000 Right Cheek test configuration which, when scaled up by 12%, becomes 1.514 W/kg.

Consequently, the value quoted here is 1.51W/kg.

††From the † note above:

The highest {Max + Max} Simultaneous Head SAR value is 1.352 W/kg for SVLTE750**+CDMA1900+WLAN5000 Right Cheek test configuration which, when scaled up by 12%, becomes 1.514 W/kg.

From Section 7:

The highest {Max + Max} Simultaneous Body-worn SAR value is 0.822W/kg for CDMA1900+WLAN2450, which, when scaled up by 12%, becomes 0.92W/kg.

The highest {Max + Max} Simultaneous Wireless Router SAR value is 1.318/kg for CDMA1900+WLAN2450 which, when scaled up by 12%, becomes 1.48W/kg.

Consequently, the value quoted here is 1.51W/kg.

1.2.6 Maximum Drift

Maximum drift covered by 12% scaling up of the SAR values	Maximum drift during measurements
0.5dB	0.49dB

1.2.7 Measurement Uncertainty

Expanded Uncertainty (k=2) 95%	$\pm 25.8\%$
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* SAR values are scaled up by 12% to cover measurement drift. As a consequence of this upwards correction of the SAR values, the contribution of measurement drift to the overall measurement uncertainty (Section 6) is reduced to zero.

Notes: There is no power reduction to LTE750 in SVLTE mode when using CDMA800.
There is no power reduction to LTE750 in SVLTE mode when using CDMA1900 and the CDMA1900 TX power is less than 18.5 dBm.

2. DESCRIPTION OF THE DEVICE UNDER TEST

Device category	Portable
Exposure environment	General population / uncontrolled

Modes of Operation	Bands	Modulation Mode	Duty Cycle	Transmitter Frequency Range (MHz)
CDMA	800 1900	QPSK	1	824 – 849 1850 – 1910
GSM	850 1900	GMSK	1/8	824 – 849 1850 – 1910
GPRS	850 1900	GMSK	1/8 to 4/8	824 – 849 1850 – 1910
EGPRS	850 1900	GMSK / 8PSK	1/8 to 4/8	824 – 849 1850 – 1910
WCDMA	850 (Band 5) 1900 (Band 2)		1	826 – 847 1852 – 1908
HSUPA	850 (Band 5) 1900 (Band 2)		1	826 – 847 1852 – 1908
LTE	750 (Band 13)		1	777 – 787
BT	2450	GFSK	1	2402 – 2480
WLAN b-mode	2450	Up to 11Mbps QPSK	1	2412 – 2462
WLAN g-mode	2450	Up to 54Mbps 64QAM	1	2412 – 2462
WLAN n-mode 20MHz	2450	Up to 72.2Mbps 64QAM	1	2412 – 2462
WLAN n-mode 40MHz	2450	Up to 54Mbps 64QAM	1	2412 – 2462
WLAN a-mode 20MHz	5000	Up to 54Mbps 64QAM	1	5150 - 5825
WLAN n-mode 20MHz	5000	Up to 72.2Mbps 64QAM	1	5150 - 5825
WLAN n-mode 40MHz	5000	Up to 150Mbps 64QAM	1	5150 - 5825

This is a 1 x RTT Ev-Do RevA device.

Outside of USA and Canada, the transmitter of the device is capable of operating also in GSM/GPRS/EGPRS900, GSM/GPRS/EGPRS1800, WCDMA900 (Band 8) and WCDMA2100 (Band 1) bands which are not part of this filing.

This device has 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. Dual Transfer Mode is a feature that utilises the multi-slot GPRS capability in this device; it allows simultaneous transmission of voice and data during the same call, using the same transmitter and antenna.

This is a WCDMA HSUPA device, but SAR tests for HSUPA mode have not been performed as no HSUPA Sub-test mode has an average power > 0.25dB above the basic WCDMA 12.2kbps RMC mode. Appendix C of this report gives a summary of the measured WCDMA and HSUPA average powers; a detailed report of these WCDMA and HSUPA conducted power tests is submitted separately.

This is an LTE Category 3 device; it contains one LTE band, namely LTE band 13. In LTE band 13 i.e. LTE750, 5MHz and 10MHz Channel Bandwidths are supported.

This is a BT Class 1 device; as its power tuning target is 6dBm (4mW), SAR testing was deemed unnecessary.

This device has SVLTE mode capability.

This device uses a single antenna for transmission of CDMA800, GSM/GPRS/EGPRS850, WCDMA850, CDMA1900, GSM/GPRS/EGPRS1900 and WCDMA1900 bands; a separate single antenna is used for transmission of LTE750 and third separate single antenna is used for WLAN. Simultaneous transmission of any singular cellular and PCS band is possible with WLAN in Head and Body-worn use according to the table below. In SVLTE mode simultaneous transmission of LTE is also possible only with CDMA bands.

Simultaneous transmission capabilities in Head and Body-worn use		
	WLAN2450	WLAN5000
LTE750	✓	✓
CDMA800	✓	✓
GSM/GPRS/EGPRS850	✓	✓
WCDMA850	✓	✓
CDMA1900	✓	✓
GSM/GPRS/EGPRS1900	✓	✓
WCDMA1900	✓	✓
SVLTE: LTE750 + CDMA800	✓	✓
SVLTE: LTE750 + CDMA1900	✓	✓

This device has Wireless Router “Hotspot” mode capability. Simultaneous transmission of any cellular, AWS and PCS band is possible with WLAN2450 in Wireless Router mode. Wireless Router mode capability is not available with WLAN5000.

Simultaneous transmission capabilities in Wireless Router use		
	WLAN2450	WLAN5000
LTE750	✓	x
CDMA800	✓	x
GPRS/EGPRS850	✓	x
WCDMA850	✓	x
CDMA1900	✓	x
GPRS/EGPRS1900	✓	x
WCDMA1900	✓	x

2.1 Power reductions in Wireless Router and SVLTE configurations

The following table details the power reductions active in Wireless Router mode:

Band	Power reduction in WR mode	Target tuning power in WR mode		
LTE750	0.3 dB	23 dBm		
CDMA800	0 dB	23.5 dBm		
GPRS/EGPRS850	0 dB	1-slot GPRS: 32.2 Bm	2-slot GPRS: 29.7 dBm 3-slot GPRS: 27.9 dBm 4-slot GPRS: 26.7 dBm	
WCDMA850	0 dB	23.2 dBm		
CDMA 1xRTT and 1xEVDO 1900	0.7 dB	22.5 dBm		
GPRS/EGPRS1900	0 dB	1-slot GPRS: 29.2 dBm	2-slot GPRS: 26.7 dBm 3-slot GPRS: 24.9 dBm 4-slot GPRS: 23.7 dBm	
WCDMA1900	1 dB	22 dBm		
SVLTE: LTE750 + CDMA800	‡	‡		
SVLTE: LTE750 + CDMA1900	‡	‡		
WLAN2450 b-mode (DSSS 1 Mbps)	0dB	Ch 1: 17 dBm	Ch 6: 17 dBm	Ch 11: 17 dBm
WLAN2450 g-mode (OFDM 6 Mbps)	0dB	Ch 1: 16 dBm	Ch 6: 16 dBm	Ch 11: 16 dBm
WLAN2450 n-mode (MCS 0 – OFDM 6.5 Mbps)	0dB	Ch 1: 15 dBm	Ch 6: 15 dBm	Ch 11: 15 dBm

‡ Wireless Router ‘Hotspot’ mode use is not restricted during Voice calls, hence SAR compliance has been addressed for the simultaneous Voice and Hotspot data configurations in Head and Body-worn accessory use conditions (KDB 941225 D06 Hot Spot SAR v01)

The following table details the power reductions active in SVLTE mode:

Band	Power reduction in SVLTE mode			Target tuning power in SVLTE mode		
LTE750	When active with CDMA800: 0 dB	When active with CDMA1900 powers $\geq$ 18.5dBm: 4 dB	When active with CDMA1900 powers $<$ 18.5dBm: 0 dB	When active with CDMA800: 23.3 dBm	When active with CDMA1900 powers $\geq$ 18.5dBm: 19.3 dBm	When active with CDMA1900 powers $<$ 18.5dBm: 23.3 dBm
CDMA800	0 dB			23.5 dBm		
CDMA1900	0 dB			23.2 dBm		

Note: there are 2 modes of SVLTE operation with CDMA1900:

when the CDMA1900 transmitted power level $\geq$ 18.5dBm, LTE power is reduced by 4dB

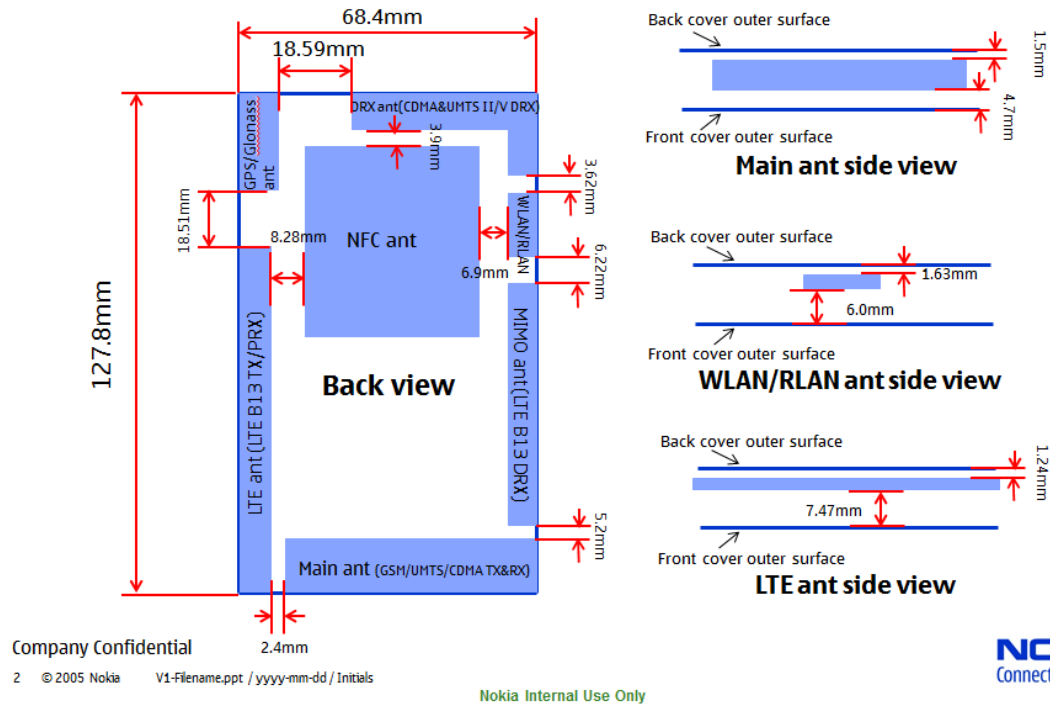
when the CDMA1900 transmitted power level $<$ 18.5dBm, LTE power is full power

The power tuning target for reduced-power CDMA1900 is 18.5dBm. To evaluate SAR for the combination of full power SVLTE with reduced-power CDMA1900, the actual power level of CDMA1900 was set slightly higher than 18.5dBm to allow for production tuning tolerances; please see the results tables in Section 7.4.1, 7.4.2 and Appendix H for the actual measured conducted power values.

2.2 Description of the Antenna

The device has internal antennas for both cellular and WLAN use. The cellular antennas are located at the bottom underneath the back cover. The WLAN antenna is located at the top underneath the back cover. The device dimensions, antenna locations and antenna interdistances are illustrated below.

RM-845 antenna drawings back/side view



3. TEST CONDITIONS

3.1 Temperature and Humidity

Ambient temperature (°C):	20.5 – 22.5
Ambient humidity (RH %):	35 - 55

3.2 Test Signal, Frequencies and Output Power

The device was put into operation by using a call tester except for testing WLAN2450/WLAN5000 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, except for testing LTE750 band for which, fully in accordance with KDB941225 D05 SAR for LTE Devices v01, only the maximum Channel Bandwidth of 10MHz was tested; as the

available bandwidth (777-787MHz) exactly matched the 10MHz Channel Bandwidth all LTE750 testing was carried out on the middle channel (Channel 23230, 782.0MHz).

The radiated output power of the device was measured by a separate test laboratory on the same units as used for SAR testing. The results are given in the EMC report supporting this application.

This device was tested in all the available multi-slot GMSK GPRS modes; Dual Transfer Mode was not specifically tested as the average power in multi-slot GMSK GPRS mode is always greater than, or equal to, the average power in Dual Transfer Mode in Nokia devices.

The transmission mode of the device in all WCDMA tests was configured to 12.2kbps RMC with all TPC bits set as "1". All WCDMA testing has been carried out in accordance with FCC KDB 941225: SAR Measurement Procedures for 3G Devices.

LTE band has been tested according to the guidance given in KDB941225 D05 SAR for LTE Devices v01. MPR values as stipulated in Table 6.2.3_1 of 3GPP TS 36.101 (presented below) have been incorporated into the device; these MPR values are dependent on the modulation, Channel Bandwidth and Resource Block allocations as shown:

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

Although A-MPR will be supported by the final production device, for all the reported testing A-MPR was deactivated in the test samples.

LTE SAR testing has been carried out in accordance with KDB941225 D05 SAR for LTE Devices v01. In addition to the requirements of KDB941225, the following test modulations have voluntarily been measured in both LTE bands:

QPSK, 1RB allocation, 50% offset
QPSK, 100% RB allocation
16QAM, 1RB allocation, 50% offset
16QAM, 100% RB allocation

The transmission mode of the device in all WLAN b-mode tests was DSSS QPSK 5.5Mbps. The transmission mode of the device in all WLAN a-mode tests was OFDM 6 Mbps, and in WLAN5000 n-mode tests was MCS 3, OFDM 26.0/28.9 Mbps. These modes have the highest time-averaged output power of all the WLAN a, b, g and n modulation modes in this device as illustrated in table in Appendix G. All WLAN testing has been carried out in accordance with FCC KDB 248227: SAR Measurement Procedures for 802.11 a/b/g Transmitters.

Here is a summary list of the KDB documents used in the reported testing:

KDB941225 D05 SAR for LTE Devices v01
KDB 941225 D01 SAR Measurement Procedures for 3G Devices
KDB 248227: SAR Measurement Procedures for 802.11 a/b/g Transmitters
KDB 648474 D01 SAR Handsets Multi Xmitter and Ant v01r05
KDB 941225 D06 v01 Hot Spot SAR

3.3 Test Cases and Test Minimisation

The tested device examined in this report may not incorporate all of the features described in the text that follows, but its SAR evaluation will have been subjected to the same considerations and test logic described below.

Whilst it's possible to identify the maximum SAR test cases from inspection of the conducted power levels given in the Results tables (Section 7), different modes in the same band and multi-slot transmit GSM/GPRS modes can create some difficulties. Therefore the sequence of the SAR tests made in evaluating this device has used test logic that is based on measured SAR values. Comparison of measured SAR values in this way, can also allow some test minimization (i.e. test elimination) to be made.

For example, when SAR testing multi-slot GSM/GPRS/EGPRS modes, it is an inefficient use of test resources to fully SAR test every test configuration in each of the different modes as these modes have a fixed power relationship between them that is the same, irrespective of the test configuration. In the case of multi-slot GSM/GPRS modes, a single comparative SAR test - using the same test channel and test configuration - is made in each of the n-slot modes; the mode with the highest measured SAR value is then subjected to full SAR testing in all test configurations. These comparative SAR tests (same frequency, same test configuration) are regarded as extremely accurate as they are relative tests in which the tested device changes neither its frequency nor its position between tests. For different modes that operate in the same band and use the same antenna e.g. GSM/GPRS850 and WCDMA850, full SAR testing is carried out in the GSM/GPRS850 mode but WCDMA850 testing is limited to 3 channel testing in the maximum SAR test configuration for GSM/GPRS850.

Multi-slot SAR testing against the Head is always performed whenever such a device offers Push to Talk over cellular with the internal earpiece active, Dual Transfer Mode (i.e. the ability to transmit voice and data simultaneously using the same transmitter) or has WLAN (which enables a Voice over IP call to take place whilst the device can simultaneously transmit data on a cellular band). Whenever a device has an intended multi-slot use against the head, it is also Head SAR tested in EGPRS mode. It should be noted that EGPRS transmit modes can have either GMSK or 8PSK modulation but, when tested, only 8PSK EGPRS will appear explicitly in the results tables, as GMSK EGPRS mode has identical time-averaged power to the reported GPRS mode.

Devices that have flips or slides are fully SAR tested in all device configurations consistent with their intended usage. For example, flip phones that can receive a call in closed mode are SAR tested against the head in both open and closed configurations. Similarly, slide phones are fully SAR tested in all slide configurations in which calls are intended to be made or received.

In the results tables in Section 7, the maximum SAR value for the 'basic' tests (i.e. left cheek, left tilt, right cheek and right tilt in Head SAR testing; with and without headset with the back &/or

display side facing the flat phantom in Body SAR testing) is bolded for each band. In some cases, after full testing of the basic SAR test configurations has been completed, additional checking SAR tests are made. These checking tests are always based on the bolded result from the 'basic' testing. When the SAR value of a checking test exceeds the maximum value from the basic tests, it is also bolded and used as the basis for any further checking tests that might be needed.

Checking tests are largely voluntary and can cover optional batteries, different camera slide positions, optional covers, etc. In the case of optional batteries, if the construction of the optional battery is significantly different to the battery used in the full testing e.g. if the outer can is floating electrically rather than grounded, then the maximum SAR test configuration in each band is tested with the optional battery in 3 channels. For camera slides, if the slide material is metal, then checking tests in 3 channels are again run for the maximum SAR test configuration in each band. For plastic camera slides, SAR checking is only carried out in the channel that provided the maximum SAR value for the original. Optional front and back covers are tested if their shape differs significantly from the original or if their metallic content varies by more than 15% from the original; in the former case, the testing depends on the extent of the physical differences, whereas in the latter case, 3 channel SAR testing is performed in every band in the max SAR test configuration.

4. DESCRIPTION OF THE TEST EQUIPMENT

4.1 Measurement System and Components

The measurements were performed using an automated DASY near-field scanning system 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 date	Calibration expiry
DAE 3	420	2011-07	2012-07
DAE 4	701	2011-07	2012-07
DAE 4	701	2012-08	2013-08
DAE 4	756	2011-08	2012-08
DAE 4	793	2011-09	2012-09
DAE 4	604	2012-07	2013-07
DAE 4	1213	2012-02	2013-02
DAE 4	1301	2011-10	2012-10
DAE 4	1309	2012-01	2013-01
DAE 4	1316	2012-02	2013-02
E-field Probe ET3DV6R	1399	2012-02	2013-02
E-field Probe ET3DV6	1739	2011-09	2012-09
E-field Probe ES3DV3	3131	2011-09	2012-09
E-field Probe ES3DV3	3165	2012-02	2013-02
E-field Probe EX3DV4	3573	2012-02	2013-02
E-field Probe EX3DV4	3834	2012-02	2013-02
Dipole Validation Kit, D750V3	1034	2011-07	2013-07
Dipole Validation Kit, D835V2	487	2012-02	2014-02
Dipole Validation Kit, D835V2	462	2011-09	2013-09
Dipole Validation Kit, D1900V2	5d099	2011-09	2013-09
Dipole Validation Kit, D2450V2	729	2011-09	2013-09
Dipole Validation Kit, D5GHzV2	1032	2012-02	2014-02
DASY4 software	Version 4.7		
DASY5 software	Version 52.8	-	-

Additional test equipment used in testing:

Test Equipment	Model	Serial Number	Calibration date	Calibration expiry
Signal Generator	E4438C	MY42080610	2011-11	2013-11
Signal Generator	SMB100A	105735	2011-12	2012-12
Signal Generator	E4436B	US39260114	2011-08	2012-08
Amplifier	5S1G4M3	302338	-	-
Amplifier	5S4G11	312661	-	-
Amplifier	5S1G4	25583	-	-
Power Meter	NRVS	838624/032	2011-08	2012-08
Power Meter	NRVS	849305/028	2011-08	2012-08
Power Meter	NRVZ	849305/029	2012-02	2013-02
Power Sensor	NRV-Z32	100067	2011-08	2012-08
Power Sensor	NRV-Z32	100069	2011-07	2012-08
Power Sensor	NRV-Z32	825600/002	2012-02	2013-02
Call Tester	CMU 200	101111	-	-
Call Tester	CMW 500	110565	-	-
Call Tester	MT8820C	6200883095	-	-
Network Analyzer	ENA E5071C	MY46213166	2012-01	2013-01
Dielectric Probe Kit	DAK-3.5	1042	-	-
Signal Generator	E8257C	MY43350540	2011-05	2013-05
Signal generator	E8247C	MY43321016	2012-07	2014-07
Amplifier	KM0822	991253	-	-
Amplifier	5S1G4	0330638	-	-
Power Meter	E4419B	GB40202156	2011-08	2012-08
Power Meter	E4432B	4S40053677	2012-02	2014-02
Power Meter	E4419B	GB3920697	2011-08	2012-08
Power Meter	EPM441A	GB37170673	2012-05	2013-05
Power Sensor	8482H	3318A06213	2011-09	2012-09
Power Sensor	8481H	3550276582-1	2011-09	2012-09
Power Sensor	8482H	3318A06406	2011-08	2012-08
Power Sensor	E9301A	US39211864	2012-07	2013-07

(Equipment list continues)

(Equipmen list continues)

Test Equipment	Model	Serial Number	Calibration date	Calibration expiry
Call Tester	CMW500	5000-0032/2012	2012-01	2013-01
Call Tester	E5515C	GB42452440	2010-12	2012-12
Call Tester	E5515C	GB42230195	2011-04	2013-04
Network Analyzer	HP8753E	US38161692	2012-03	2014-03
Dielectric Probe Kit	HP 8120-6192	01148176	-	-

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 E
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 μ W/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
Application	Distance from probe tip to dipole centers: 2.7 mm General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms

4.1.2 Isotropic E-field Probe Type ES3DV3

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., butyl diglycol)
Calibration	Calibration certificate in Appendix E
Frequency	10 MHz to 4 GHz (dosimetry); Linearity: ± 0.2 dB (30 MHz to 4 GHz)
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.3 dB in HSL (rotation normal to probe axis)
Dynamic Range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 330 mm Tip length: 20 mm Body diameter: 12 mm Tip diameter: 3.9 mm
Application	Distance from probe tip to dipole centers: 2.0 mm General dosimetry up to 4 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms

4.1.3 Isotropic E-field Probe Type EX3DV4

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	Calibration certificate in Appendix E
Frequency	10 MHz to >6 GHz (dosimetry); Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g, Linearity: ± 0.2 dB
Dimensions	Overall length: 330 mm Tip length: 10 mm Body diameter: 12 mm Tip diameter: 2.5 mm
Application	Distance from probe tip to dipole centers: 1.0 mm General dosimetry up to 6 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 $\pm 5\%$ of the recommended values. All tests were carried out within 24 hours of measuring the dielectric parameters.

The depth of the tissue simulant was at least 15.0 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):

700MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	52.13	69.23
Tween 20	46.59	29.56
Salt	1.28	1.21

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	70.20
Tween 20	44.0	29.62
Salt	-	0.18

5000MHz band †

Ingredient	Head (% by weight)	Body (% by weight)
Water	50-65	60-80
Oil	10-30	-
Emulsifiers, Esters, Inhibitors	8-25	20-40
Sodium salt	0-1.5	0-1.5

† Recipe is proprietary to SPEAG. The proportions of the constituents have not been disclosed.

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, (except in the case of the 5000MHz dipole for which 100mW was supplied), 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]	
750	Reference result	2.12	41.7	0.91	
	± 10% window	1.91 – 2.33			
	IEEE1528 / IEC62209 Standard targets		41.9	0.89	
	2012-07-18	2.12	40.6	0.91	21.0
	2012-07-19	2.13	40.6	0.91	21.0
	2012-07-23	2.16	40.2	0.91	21.0
	2012-08-11	2.15	41.0	0.91	21.0
	2012-09-04	2.11	40.6	0.91	21.0
835	Reference result	2.31	41.0	0.89	
	± 10% window	2.08 – 2.54			
	IEEE1528 / IEC62209 Standard targets		41.5	0.90	
	2012-07-19	2.51	41.8	0.90	21.3
	2012-08-07	2.30	40.9	0.89	22.1
	2012-08-11	2.27	40.2	0.87	21.4
835	Reference result	2.33	41.1	0.89	
	± 10% window	2.10 – 2.56			
	IEEE1528 / IEC62209 Standard targets		41.5	0.90	
	2012-07-26	2.41	40.6	0.93	21.0
	2012-07-29	2.35	40.7	0.93	21.0
	2012-08-07	2.31	40.2	0.91	21.0
1900	Reference result	10.1	39.6	1.43	
	± 10% window	9.1 - 11.1			
	IEEE1528 / IEC62209 Standard targets		40.0	1.40	
	2012-07-18	10.1	38.9	1.47	22.2
	2012-07-21	10.1	38.6	1.45	22.7
	2012-07-23	9.66	38.4	1.42	22.5
	2012-07-27	9.96	39.4	1.46	22.0
	2012-07-30	10.2	39.2	1.47	22.2
	2012-08-28	9.22	39.2	1.40	21.5
	2012-09-04	9.61	39.9	1.45	21.5

(System check, head Table continues)

(System check, head Table continues)

f [MHz]	Description	SAR [W/kg], 1g	Dielectric Parameters		Temp [°C]
			ϵ_r	σ [S/m]	
2450	Reference result	13.9	38.3	1.85	
	± 10% window	12.5 – 15.3			
	IEEE1528 / IEC62209 Standard targets		39.2	1.80	
	2012-07-20	13.8	38.0	1.80	21.0
	2012-08-11	13.8	37.9	1.81	21.0
5200	Reference result	7.98	35.3	4.60	
	± 10% window	7.18 – 8.78			
	IEEE1528 / IEC62209 Standard targets*		36.0	4.66	
	2012-07-31	8.25	35.0	4.59	21.0
	2012-09-04	7.95	35.1	4.53	21.0
5500	Reference result	8.65	34.9	4.89	
	± 10% window	7.78 – 9.52			
	IEEE1528 / IEC62209 Standard targets*		35.6	4.96	
	2012-08-01	8.33	34.6	4.89	21.0
	2012-08-02	8.02	34.5	4.73	21.0
5800	Reference result	7.92	34.4	5.19	
	± 10% window	7.13 - 8.71			
	IEEE1528 / IEC62209 Standard targets*		35.3	5.27	
	2012-08-01	8.34	34.2	5.22	21.0
	2012-08-02	8.22	34.1	5.04	21.0

* Dielectric parameter data taken from IEC62209-2.

System checking, body tissue simulant

f [MHz]	Description	SAR [W/kg], 1g	Dielectric Parameters		Temp [°C]
			ϵ_r	σ [S/m]	
750	Reference result	2.20	55.2	0.96	
	± 10% window	1.98 – 2.42			
	IEEE1528 / IEC62209 Standard targets		55.5	0.96	
	2012-07-20	2.21	53.9	0.99	21.0
	2012-07-23	2.19	53.8	0.99	21.0
835	Reference result	2.44	55.7	1.01	
	± 10% window	2.20 – 2.68			
	IEEE1528 / IEC62209 Standard targets		55.2	0.97	
	2012-07-21	2.39	56.0	1.00	20.8
	2012-07-23	2.35	56.0	0.96	20.6
	2012-07-25	2.50	55.2	0.98	20.3
	2012-07-28	2.41	55.7	1.00	19.8
835	Reference result	2.45	53.5	1.00	
	± 10% window	2.20 – 2.70			
	IEEE1528 / IEC62209 Standard targets		55.2	0.97	
	2012-07-29	2.35	53.7	1.01	21.0
1900	Reference result	10.6	54.2	1.59	
	± 10% window	9.5 – 11.7			
	IEEE1528 / IEC62209 Standard targets		53.3	1.52	
	2012-07-18	10.1	52.9	1.58	21.9
	2012-07-20	9.81	52.6	1.59	21.9
	2012-07-23	9.62	52.2	1.52	22.3
	2012-07-27	10.3	52.0	1.60	21.7
	2012-07-30	10.5	51.7	1.60	22.2
	2012-08-31	9.94	51.8	1.56	21.8

(System Check, body Table continues)

(System check, body Table continues)

f [MHz]	Description	SAR [W/kg], 1g	Dielectric Parameters		Temp [°C]
			ϵ_r	σ [S/m]	
2450	Reference result	13.3	51.7	2.04	
	$\pm 10\%$ window	12.0 – 14.6			
	IEEE1528 / IEC62209 Standard targets		52.7	1.95	
	2012-07-20	13.9	51.1	1.95	21.0
	2012-07-23	13.7	51.2	1.95	21.0
5200	Reference result	7.23	48.6	5.48	
	$\pm 10\%$ window	6.51 – 7.95			
	FCC OET65 Supplement C targets		49.0	5.30	
	2012-08-02	7.94	48.7	5.47	21.0
5500	Reference result	7.78	48.1	5.87	
	$\pm 10\%$ window	7.00 – 8.56			
	FCC OET65 Supplement C targets		48.6	5.65	
	2012-08-03	8.44	48.0	5.84	21.0
	2012-08-06	8.31	48.5	5.84	21.0
5800	Reference result	7.21	48.2	6.28	
	$\pm 10\%$ window	6.49 – 7.93			
	FCC OET65 Supplement C targets		48.2	6.00	
	2012-08-03	7.30	47.5	6.26	21.0
	2012-08-05	7.11	48.5	6.27	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]	
782	Recommended value	41.9	0.92	
	$\pm 5\%$ window	39.8 – 44.0	0.87 – 0.97	
	2012-07-18	40.3	0.93	21.0
	2012-07-19	40.4	0.93	21.0
	2012-07-23	39.9	0.92	21.0
	2012-08-11	40.8	0.93	21.0
	2012-09-04	40.3	0.93	21.0
835	Recommended value	41.5	0.90	
	$\pm 5\%$ window	39.4 – 43.6	0.86 – 0.95	
	2012-08-07	40.9	0.89	22.1
836	Recommended value	41.5	0.90	
	$\pm 5\%$ window	39.4 – 43.6	0.86 – 0.95	
	2012-07-19	41.7	0.90	21.3
	2012-07-26	40.6	0.93	21.0
	2012-07-29	40.7	0.93	21.0
	2012-08-07	40.2	0.91	22.1
	2012-08-11	40.2	0.87	21.4
1880	Recommended value	40.0	1.40	
	$\pm 5\%$ window	38.0 – 42.0	1.33 – 1.47	
	2012-07-18	39.0	1.45	22.2
	2012-07-21	38.6	1.43	22.7
	2012-07-23	38.4	1.41	22.5
	2012-07-27	39.5	1.44	22.0
	2012-07-30	39.3	1.45	22.4
	2012-08-28	39.3	1.39	22.3
	2012-09-04	40.0	1.43	21.5
2437	Recommended value	39.2	1.79	
	$\pm 5\%$ window	37.3 – 41.2	1.70 – 1.88	
	2012-07-20	38.0	1.78	21.0
	2012-08-11	38.0	1.79	21.0

(Head tissue simulant Table continues)

(Head tissue simulat Table continues)

f [MHz]	Description	Dielectric Parameters		Temp [°C]
		ϵ_r	σ [S/m]	
5210	Recommended value	36.1	4.67	
	$\pm 5\%$ window	34.3 – 37.9	4.44 – 4.90	
	2012-07-31	34.9	4.60	21.0
5290	Recommended value	36.0	4.75	
	$\pm 5\%$ window	34.2 – 37.8	4.51 – 4.99	
	2012-07-31	34.8	4.68	21.0
	2012-09-04	35.0	4.61	21.0
5600	Recommended value	35.6	5.07	
	$\pm 5\%$ window	33.8 – 37.4	4.82 – 5.32	
	2012-08-01	34.5	4.99	21.0
	2012-08-02	34.3	4.83	21.0
5785	Recommended value	35.4	5.25	
	$\pm 5\%$ window	33.6 – 37.2	4.99 – 5.51	
	2012-08-01	34.2	5.20	21.0
	2012-08-02	34.1	5.02	21.0

Body tissue simulant measurements

f [MHz]	Description	Dielectric Parameters		Temp [°C]
		ϵ_r	σ [S/m]	
782	Recommended value	55.4	0.99	
	$\pm 5\%$ window	52.6 – 58.2	0.94 – 1.04	
	2012-07-20	53.7	1.01	21.0
	2012-07-23	53.6	1.00	21.0
835	Recommended value	55.2	0.97	
	$\pm 5\%$ window	52.4 – 58.0	0.92 – 1.02	
	2012-07-25	55.2	0.98	20.3
	2012-07-28	55.7	1.00	19.8
836	Recommended value	55.2	0.97	
	$\pm 5\%$ window	52.4 – 58.0	0.92 – 1.02	
	2012-07-21	55.9	1.00	20.3
	2012-07-23	55.9	0.96	20.6
836	2012-07-29	53.6	1.01	21.0
1880	Recommended value	53.3	1.52	
	$\pm 5\%$ window	50.6 – 56.0	1.44 – 1.60	
	2012-07-18	53.0	1.56	21.9
	2012-07-20	52.6	1.57	21.9
	2012-07-23	52.3	1.51	22.3
	2012-07-27	52.1	1.58	21.6
	2012-07-30	51.8	1.58	22.0
	2012-08-31	51.9	1.54	21.8
2437	Recommended value	52.7	1.94	
	$\pm 5\%$ window	50.1 – 55.3	1.85 – 2.04	
	2012-07-20	51.2	1.93	21.0
	2012-07-23	51.3	1.93	21.0

(Body tissue simulant table continues)

(Body tissue simulant table continues)

f [MHz]	Description	Dielectric Parameters		Temp [°C]
		ϵ_r	σ [S/m]	
5210	Recommended value	49.0	5.31	
	$\pm 5\%$ window	46.6 – 51.5	5.04 – 5.58	
	2012-08-02	48.7	5.47	21.0
5290	Recommended value	48.9	5.40	
	$\pm 5\%$ window	46.4 – 51.3	5.13 – 5.67	
	2012-08-02	48.6	5.58	21.0
5600	Recommended value	4.85	5.77	
	$\pm 5\%$ window	46.0 – 50.9	5.48 – 6.06	
	2012-08-03	47.8	5.97	21.0
	2012-08-06	48.3	5.98	21.0
5785	Recommended value	48.2	5.98	
	$\pm 5\%$ window	45.8 – 50.6	5.68 – 6.28	
	2012-08-03	47.5	6.24	21.0
	2012-08-05	48.6	6.24	21.0

Dielectric parameter data for the band edges is given in Appendix C.

5. DESCRIPTION OF THE TEST PROCEDURE

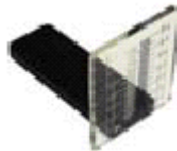
5.1 Device Holder

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 both sides facing the phantom to find the highest results.

Nokia body-worn accessories are commonly available for the separation distance used in this testing.

5.3 Wireless Router Configuration

The device was placed in the SPEAG holder using the Nokia spacer and positioned 10.0mm away from the flat phantom. The spacer was removed before the start of the measurements.

5.4 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.

5.5 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	$C_i \cdot U_i$ (%)	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

7.1 The measured Head SAR values for the test device

LTE750 Band Head SAR results

Mode	Test configuration		SAR, averaged over 1g (W/kg)		
			-	Ch 23230 782.0 MHz	-
QPSK	Conducted Average Power		-	22.54 dBm	-
10MHz Ch BW 100% RB	Left	Cheek	-	0.292	-
		Tilt	-	0.167	-
	Right	Cheek	-	0.489	-
		Tilt	-	0.197	-
QPSK	Conducted Average Power		-	22.71 dBm	-
10MHz Ch BW 50% RB 50% offset	Left	Cheek	-	0.309	-
		Tilt	-	0.137	-
	Right	Cheek	-	0.519	-
		Tilt	-	0.208	-
QPSK	Conducted Average Power		-	23.52 dBm	-
10MHz Ch BW 1 RB 50% offset	Left	Cheek	-	0.374	-
		Tilt	-	0.166	-
	Right	Cheek	-	0.627	-
		Tilt	-	0.250	-
QPSK	Conducted Average Power		-	22.94 dBm	-
10MHz Ch BW 1 RB 100% offset	Left	Cheek	-	0.266	-
		Tilt	-	0.116	-
	Right	Cheek	-	0.468	-
		Tilt	-	0.187	-
QPSK	Conducted Average Power		-	23.35 dBm	-
10MHz Ch BW 1 RB 0% offset	Left	Cheek	-	0.310	-
		Tilt	-	0.144	-
	Right	Cheek	-	0.523	-
		Tilt	-	0.196	-

(LTE750 Table continues)

(LTE750 Table continues)

Mode	Test configuration		SAR, averaged over 1g (W/kg)		
			-	Ch 23230 782.0 MHz	-
16QAM	Conducted Average Power		-	21.61 dBm	-
10MHz Ch BW 100% RB	Left	Cheek	-	0.224	-
		Tilt	-	0.101	-
	Right	Cheek	-	0.400	-
		Tilt	-	0.175	-
16QAM	Conducted Average Power		-	21.78 dBm	-
10MHz Ch BW 50% RB 50% offset	Left	Cheek	-	0.241	-
		Tilt	-	0.142	-
	Right	Cheek	-	0.413	-
		Tilt	-	0.185	-
16QAM	Conducted Average Power		-	22.40 dBm	-
10MHz Ch BW 1 RB 50% offset	Left	Cheek	-	0.295	-
		Tilt	-	0.175	-
	Right	Cheek	-	0.508	-
		Tilt	-	0.212	-
16QAM	Conducted Average Power		-	21.88 dBm	-
10MHz Ch BW 1 RB 100% offset	Left	Cheek	-	0.214	-
		Tilt	-	0.133	-
	Right	Cheek	-	0.378	-
		Tilt	-	0.160	-
16QAM	Conducted Average Power		-	22.21 dBm	-
10MHz Ch BW 1 RB 0% offset	Left	Cheek	-	0.249	-
		Tilt	-	0.137	-
	Right	Cheek	-	0.434	-
		Tilt	-	0.240	-

5MHz Channel Bandwidth has a maximum time-averaged output power < 0.5dB above the maximum time-averaged output power in 10MHz Channel Bandwidth. Therefore, according to KDB 941225 D05 SAR for LTE Devices v01, no SAR testing was required for the 5MHz Channel Bandwidth as no SAR value for 10MHz Channel Bandwidth exceeded 1.45W/kg.

CDMA800 Band Head SAR results

Mode	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 1013 824.7 MHz	Ch 384 836.5 MHz	Ch 777 848.3 MHz
RC3 / S055	Conducted Average Power		23.54 dBm	23.40 dBm	23.50 dBm
	Left	Cheek	0.672	0.708	0.706
		Tilt	-	0.456	-
	Right	Cheek	-	0.556	-
		Tilt	-	0.460	-

850MHz Head SAR results

Mode	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz
GSM	Conducted Average Power		-	31.90 dBm	-
	Left	Cheek	-	0.739	-
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
2-slot GPRS	Conducted Average Power		29.90 dBm	29.90 dBm	29.60 dBm
	Left	Cheek	0.681	0.785	0.784
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
3-slot GPRS	Conducted Average Power		28.00 dBm	28.20 dBm	27.70 dBm
	Left	Cheek	0.655	0.856	0.883
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
4-slot GPRS	Conducted Average Power		26.90 dBm	26.60 dBm	26.50 dBm
	Left	Cheek	0.716	0.818	0.904
		Tilt	-	0.463	-
	Right	Cheek	-	0.665	-
		Tilt	-	0.420	-

(850MHz Table continues)

(850MHz Table continues)

Mode	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz
4-slot 8PSK EGPRS	Conducted Average Power		-	-	25.6 dBm
	Left	Cheek	-	-	0.617
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
Mode	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz
WCDMA	Conducted Average Power		23.20 dBm	23.25 dBm	23.33 dBm
	Left	Cheek	0.557	0.628	0.592
		Tilt	-	0.402	-
	Right	Cheek	-	0.487	-
		Tilt	-	0.411	-

CDMA1900 Band Head SAR results

Mode	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 25 1851.3 MHz	Ch 600 1880.0 MHz	Ch 1175 1908.8 MHz
RC3 / S055	Conducted Average Power		23.00 dBm	23.20 dBm	23.10 dBm
	Left	Cheek	1.03	0.991	0.960
		Tilt	-	0.424	-
	Right	Cheek	0.746	0.833	0.728
		Tilt	-	0.540	-

1900MHz Head SAR results

Mode	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz
GSM	Conducted Average Power		-	29.3 dBm	-
				0.504	
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
2-slot GPRS	Conducted Average Power		26.7 dBm	26.7 dBm	26.4 dBm
	Left	Cheek	0.608	0.576	0.527
		Tilt	-	0.205	-
	Right	Cheek	-	0.400	-
		Tilt	-	0.304	-
3-slot GPRS	Conducted Average Power		-	24.9 dBm	-
	Left	Cheek	-	0.554	-
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
4-slot GPRS	Conducted Average Power		-	23.7 dBm	-
	Left	Cheek	-	0.569	-
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
2-slot 8PSK EGPRS	Conducted Average Power		23.9 dBm	23.8 dBm	23.6 dBm
	Left	Cheek	0.315	-	-
		Tilt	-	-	-
	Right	Cheek	-	-	-
		Tilt	-	-	-
Mode	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz
WCDMA	Conducted Average Power		23.08 dBm	23.05 dBm	22.94 dBm
	Left	Cheek	0.953	0.987	0.838
		Tilt	-	0.344	-
	Right	Cheek	-	0.691	-
		Tilt	-	0.490	-

2450MHz Head SAR results

Mode	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 1 2412.0 MHz	Ch 6 2437.0 MHz	Ch 11 2462.0 MHz
WLAN b-mode	Conducted Average Power		17.71 dBm	17.85 dBm	17.85 dBm
DSSS 5.5 Mbps	Left	Cheek	-	0.227	-
		Tilt	-	0.245	-
	Right	Cheek	0.446	0.577	0.639
		Tilt	-	0.168	-

5000MHz Head SAR results 5150–5250 MHz and 5250–5350 MHz

Mode	Test configuration		SAR, averaged over 1g (W/kg)			
			Ch 36 5180.0 MHz	Ch 44 5220.0 MHz	Ch 56 5280.0 MHz	Ch 64 5320.0 MHz
WLAN a-mode	Conducted Average Power		11.83 dBm	11.84 dBm	11.85 dBm	11.77 dBm
OFDM 6 Mbps	Left	Cheek	0.133	0.114	0.126	0.118
		Tilt	0.025	-	0.037	-
	Right	Cheek	0.226	-	0.259	-
		Tilt	0.061	-	0.058	-

5000MHz Head SAR results 5470–5725 MHz

Mode	Test configuration		SAR, averaged over 1g (W/kg)			
			Ch 100 5500.0 MHz	Ch 120 5600.0 MHz	Ch 124 5620.0 MHz	Ch 136 5680.0 MHz
WLAN a-mode	Conducted Average Power		12.11 dBm	12.00 dBm	12.00 dBm	11.98 dBm
OFDM 6 Mbps	Left	Cheek	0.080	0.060	0.059	0.061
		Tilt	0.051	-	-	-
	Right	Cheek	0.237	-	-	-
		Tilt	0.070	-	-	-
WLAN n-mode	Conducted Average Power		-	-	12.27 dBm	-
MCS 3 OFDM 26.0 / 28.9 Mbps	Left	Cheek	-	-	-	-
		Tilt	-	-	-	-
	Right	Cheek	-	-	0.158	-
		Tilt	-	-	-	-

**5000MHz Head SAR results
5725–5850 MHz**

Mode	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 153 5765.0 MHz	Ch 157 5785.0 MHz	Ch 161 5805.0 MHz
WLAN a-mode	Conducted Average Power		12.04 dBm	11.98 dBm	11.96 dBm
OFDM 6 Mbps	Left	Cheek	0.059	0.064	0.067
		Tilt	-	-	0.047
	Right	Cheek	-	-	0.153
		Tilt	-	-	0.057

Simultaneous transmissions: Combined SAR results – Individual band Max results

Test configuration	Max. 1g SAR results								
	WLAN 2450	WLAN 5000	LTE 750	CDMA 800	4-slot GPRS 850	WCDMA 850	CDMA 1900	2-slot GPRS 1900	WCDMA 1900
Head: Left, Cheek	0.227	0.133	0.374	0.708	0.904	0.628	1.03	0.608	0.987
Head: Left, Tilt	0.245	0.051	0.175	0.456	0.463	0.402	0.424	0.205	0.344
Head: Right, Cheek	0.639	0.259	0.627	0.556	0.665	0.487	0.833	0.400	0.691
Head: Right, Tilt	0.168	0.070	0.250	0.460	0.420	0.411	0.540	0.304	0.490

**Simultaneous transmissions: Combined head SAR results –
Max + Max combined results**

Test configuration	Max. 1g SAR results						
	LTE750 + WLAN2450	CDMA800 + WLAN2450	4-slot GPRS850 + WLAN2450	WCDMA 850 + WLAN2450	CDMA1900 + WLAN2450	2-slot GPRS1900 + WLAN2450	WCDMA 1900 + WLAN2450
Head: Left, Cheek	0.601	0.935	1.131	0.855	1.257	0.835	1.214
Head: Left, Tilt	0.420	0.701	0.708	0.647	0.669	0.450	0.589
Head: Right, Cheek	1.266	1.195	1.304	1.126	1.472	1.039	1.330
Head: Right, Tilt	0.418	0.628	0.588	0.579	0.708	0.472	0.658
Test configuration	Max. 1g SAR results						
	LTE750 + WLAN5000	CDMA800 + WLAN5000	4-slot GPRS850 + WLAN5000	WCDMA 850 + WLAN5000	CDMA 1900 + WLAN5000	2-slot GPRS1900 + WLAN5000	WCDMA 1900 + WLAN5000
Head: Left, Cheek	0.507	0.841	1.037	0.761	1.163	0.741	1.120
Head: Left, Tilt	0.226	0.507	0.514	0.453	0.475	0.256	0.395
Head: Right, Cheek	0.886	0.815	0.924	0.746	1.092	0.659	0.950
Head: Right, Tilt	0.320	0.530	0.490	0.481	0.610	0.374	0.560

The CDMA1900+WLAN2450 Simultaneous Head SAR value for Right Cheek test configuration is 1.472W/kg which, when scaled up by 12%, becomes 1.649W/kg i.e. > 1.6W/kg. However, as the separation distance between the SAR peaks is 6.89 cm, the Antenna Pair SAR to Peak Separation Ratio is $1.649 / 6.89 = 0.24$ i.e. < 0.3, hence Simultaneous Transmission Procedures as described in KDB648474 are not required.

The following table gives a more accurate assessment of the SAR values for simultaneous transmission. These values have been calculated using the SPEAG Combined Multiband algorithm, which is based on area scans. It a) converts the 2D area scans into 3D volume scans by assuming frequency-dependent decay characteristics for the E-field, b) sums the SAR values for WLAN2450 or WLAN5000 and the cellular bands point-by-point and c) calculates the combined average SAR values.

**Simultaneous transmissions: Combined head SAR results –
SPEAG Combined Multiband algorithm results**

Test configuration	Max. 1g SAR results						
	LTE750 + WLAN2450	CDMA800 + WLAN2450	4-slot GPRS850 + WLAN2450	WCDMA 850 + WLAN2450	CDMA1900 + WLAN2450	2-slot GPRS1900 + WLAN2450	WCDMA 1900 + WLAN2450
Head: Left, Cheek	-	-	-	-	-	-	-
Head: Left, Tilt	-	-	-	-	-	-	-
Head: Right, Cheek	0.750	0.878	0.878	0.839	0.963	0.931	0.964
Head: Right, Tilt	-	-	-	-	-	-	--
Test configuration	Max. 1g SAR results						
	LTE750 + WLAN5000	CDMA800 + WLAN5000	4-slot GPRS850 + WLAN5000	WCDMA 850 + WLAN5000	CDMA1900 + WLAN5000	2-slot GPRS1900 + WLAN5000	WCDMA 1900 + WLAN5000
Head: Left, Cheek	-	0.734	0.901	0.635	1.04	0.638	0.945
Head: Left, Tilt	-	-	-	-	-	-	-
Head: Right, Cheek	0.581	-	-	-	-	-	-
Head: Right, Tilt	-	-	-	-	-	-	-

Some of the Combined SAR values in the above table are less than the maximum SAR values for the contributing cellular band. This is due to a) minimal overlap of the SAR distributions of the cellular band with WLAN2450 or WLAN5000 and b) uncertainties associated with the different methods of calculation. In these cases, the maximum SAR values given for the combined Modes in the Summary table in Section 1.2 are those for the individual cellular band.

7.2 The measured Body SAR values for the test device

LTE750 Band Body SAR results

Mode	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			-	Ch 23230 782.0 MHz	-
QPSK	Conducted Average Power		-	22.54 dBm	-
10MHz Ch BW 100% RB	Back facing phantom	Without headset	-	0.356	-
		Headset WH-902	-	-	-
	Display facing phantom	Without headset	-	-	-
		Headset WH-902	-	-	-
QPSK	Conducted Average Power		-	22.71 dBm	-
10MHz Ch BW 50% RB 50% offset	Back facing phantom	Without headset	-	0.374	-
		Headset WH-902	-	-	-
	Display facing phantom	Without headset	-	-	-
		Headset WH-902	-	-	-
QPSK	Conducted Average Power		-	23.52 dBm	-
10MHz Ch BW 1RB 50% offset	Back facing phantom	Without headset	-	0.452	-
		Headset WH-902	-	0.421	-
	Display facing phantom	Without headset	-	0.287	-
		Headset WH-902	-	0.228	-
QPSK	Conducted Average Power		-	22.94 dBm	-
10MHz Ch BW 1RB 100% offset	Back facing phantom	Without headset	-	0.358	-
		Headset WH-902	-	-	-
	Display facing phantom	Without headset	-	-	-
		Headset WH-902	-	-	-
QPSK	Conducted Average Power		-	23.35 dBm	-
10MHz Ch BW 1RB 0% offset	Back facing phantom	Without headset	-	0.376	-
		Headset WH-902	-	-	-
	Display facing phantom	Without headset	-	-	-
		Headset WH-902	-	-	-

(LTE750 table continues)

(LTE750 table continues)

Mode	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			-	Ch 23230 782.0 MHz	-
16QAM	Conducted Average Power		-	21.61 dBm	-
10MHz Ch BW 100% RB	Back facing phantom	Without headset	-	0.269	-
		Headset WH-902	-	-	-
	Display facing phantom	Without headset	-	-	-
		Headset WH-902	-	-	-
16QAM	Conducted Average Power		-	21.78 dBm	-
10MHz Ch BW 50% RB 50% offset	Back facing phantom	Without headset	-	0.281	-
		Headset WH-902	-	-	-
	Display facing phantom	Without headset	-	-	-
		Headset WH-902	-	-	-
16QAM	Conducted Average Power		-	22.40 dBm	-
10MHz Ch BW 1RB 50% offset	Back facing phantom	Without headset	-	0.349	-
		Headset WH-902	-	-	-
	Display facing phantom	Without headset	-	-	-
		Headset WH-902	-	-	-
16QAM	Conducted Average Power		-	21.88 dBm	-
10MHz Ch BW 1RB 100% offset	Back facing phantom	Without headset	-	0.273	-
		Headset WH-902	-	-	-
	Display facing phantom	Without headset	-	-	-
		Headset WH-902	-	-	-
16QAM	Conducted Average Power		-	22.21 dBm	-
10MHz Ch BW 1RB 0% offset	Back facing phantom	Without headset	-	0.334	-
		Headset WH-902	-	-	-
	Display facing phantom	Without headset	-	-	-
		Headset WH-902	-	-	-

CDMA800 Band Body SAR results

Mode	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch 1013 824.7 MHz	Ch 384 836.5 MHz	Ch 777 848.3 MHz
RC3 / S055	Conducted	Average Power	23.54 dBm	23.40 dBm	23.50 dBm
	Back facing phantom	Without headset	0.523	0.546	0.496
		Headset WH-902	-	0.446	-
	Display facing phantom	Without headset	-	0.534	-
		Headset WH-902	-	0.420	-

850MHz Body SAR results

Mode	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz
4-slot GPRS	Conducted	Average Power	26.90 dBm	26.60 dBm	26.50 dBm
	Back facing phantom	Without headset	-	0.574	-
		Headset WH-902	-	0.457	-
	Display facing phantom	Without headset	0.605	0.635	0.631
		Headset WH-902	-	0.464	-
Mode	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz
WCDMA	Conducted	Average Power	23.20 dBm	23.25 dBm	23.33 dBm
	Back facing phantom	Without headset	0.562	0.643	0.541
		Headset WH-902	-	0.549	-
	Display facing phantom	Without headset	-	0.621	-
		Headset WH-902	-	0.478	-

CDMA1900 Band Body SAR results

Mode	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch 25 1851.3 MHz	Ch 600 1880.0 MHz	Ch 1175 1908.8 MHz
RC3 / S055	Conducted Average Power		23.00 dBm	23.20 dBm	23.10 dBm
	Back facing phantom	Without headset	-	0.681	-
		Headset WH-902	-	0.692	-
	Display facing phantom	Without headset	-	0.704	-
		Headset WH-902	0.677	0.719	0.716

1900MHz Body SAR results

Mode	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz
2-slot GPRS	Conducted Average Power		26.7 dBm	26.7 dBm	26.4 dBm
	Back facing phantom	Without headset	-	0.366	-
		Headset WH-902	-	0.349	-
	Display facing phantom	Without headset	-	0.388	-
		Headset WH-902	0.389	0.393	0.386
Mode	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz
WCDMA	Conducted Average Power		23.08 dBm	23.05 dBm	22.94 dBm
	Back facing phantom	Without headset	-	0.607	-
		Headset WH-902	-	0.621	-
	Display facing phantom	Without headset	-	0.624	-
		Headset WH-902	0.606	0.625	0.629

2450MHz Body SAR results

Mode	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch 1 2412.0 MHz	Ch 6 2437.0 MHz	Ch 11 2462.0 MHz
WLAN b-mode	Conducted Average Power		17.71 dBm	17.85 dBm	17.85 dBm
DSSS 5.5 Mbps	Back facing phantom	Without headset	-	0.091	-
		Headset WH-902	0.082	0.102	0.130
	Display facing phantom	Without headset	-	0.072	-
		Headset WH-902	-	0.062	-

5000MHz Body SAR results 5150–5250 MHz and 5250–5350 MHz

Mode	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)			
			Ch 36 5180.0 MHz	Ch 44 5220.0 MHz	Ch 56 5280.0 MHz	Ch 64 5320.0 MHz
WLAN a-mode	Conducted Average Power		11.83 dBm	11.84 dBm	11.85 dBm	11.77 dBm
OFDM 6 Mbps	Back facing	Without headset	0.085	0.089	0.086	0.089
	phantom	Headset WH-902	-	0.089	-	0.088
	Display facing	Without headset	-	0.034	-	0.026
	phantom	Headset WH-902	-	0.033	-	0.028

5000MHz Body SAR results 5470–5725 MHz

Mode	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)			
			Ch 100 5500.0 MHz	Ch 120 5600.0 MHz	Ch 124 5620.0 MHz	Ch 136 5680.0 MHz
WLAN a-mode	Conducted Average Power		12.11 dBm	12.00 dBm	12.00 dBm	11.98 dBm
OFDM 6 Mbps	Back facing phantom	Without headset	0.088	0.083	0.080	0.076
		Headset WH-902	0.084	-	-	-
	Display facing phantom	Without headset	0.037	-	-	-
		Headset WH-902	0.031	-	-	-
WLAN n-mode	Conducted Average Power		- dBm	- dBm	12.27 dBm	- dBm
MCS 3 OFDM 26.0 / 28.9 Mbps	Back facing phantom	Without headset	-	-	0.075	-
		Headset WH-902	-	-	-	-
	Display facing phantom	Without headset	-	-	-	-
		Headset WH-902	-	-	-	-

**5000MHz Body SAR results
5725–5850 MHz**

Mode	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch 153 5765.0 MHz	Ch 157 5785.0 MHz	Ch 161 5805.0 MHz
WLAN a-mode	Conducted Average Power		12.04 dBm	11.98 dBm	11.96 dBm
OFDM 6 Mbps	Back facing phantom	Without headset	0.053	0.061	0.059
		Headset WH-902	-	0.054	-
	Display facing phantom	Without headset	-	0.030	-
		Headset WH-902	-	0.022	-

Simultaneous transmissions: Combined body SAR results – Individual band Max results

Test configuration	Max. 1g SAR results								
	WLAN 2450	WLAN 5000	LTE 750	CDMA 800	4-slot GPRS 850	WCDMA 850	CDMA 1900	2-slot GPRS 1900	WCDMA 1900
Body: Back facing phantom, Without Headset	0.091	0.089	0.452	0.546	0.574	0.643	0.681	0.366	0.607
Body: Back facing phantom, Headset WH-902	0.130	0.089	0.421	0.446	0.457	0.549	0.692	0.349	0.621
Body: Display facing phantom, Without Headset	0.072	0.037	0.287	0.534	0.635	0.621	0.704	0.388	0.624
Body: Display facing phantom, Headset WH-902	0.062	0.033	0.228	0.420	0.464	0.478	0.719	0.393	0.629

**Simultaneous transmissions: Combined body SAR results –
Max + Max combined results**

Test configuration	Max. 1g SAR results						
	LTE750 + WLAN 2450	CDMA800 + WLAN 2450	4-slot GPRS850 + WLAN 2450	WCDMA850 + WLAN 2450	CDMA1900 + WLAN 2450	2-slot GPRS1900 + WLAN 2450	WCDMA1900 + WLAN 2450
Body: Back facing hantom, Without Headset	0.543	0.637	0.665	0.734	0.772	0.457	0.698
Body: Back facing phantom, Headset WH-902	0.551	0.576	0.587	0.679	0.822	0.479	0.751
Body: Display facing phantom, Without Headset	0.359	0.606	0.707	0.693	0.776	0.460	0.696
Body: Display facing phantom, Headset WH-902	0.290	0.482	0.526	0.540	0.781	0.455	0.691
Test configuration	Max. 1g SAR results						
	LTE750 + WLAN 5000	CDMA800 + WLAN 5000	4-slot GPRS850 + WLAN 5000	WCDMA850 + WLAN 5000	CDMA1900 + WLAN 5000	2-slot GPRS1900 + WLAN 5000	WCDMA1900 + WLAN 5000
Body: Back facing hantom, Without Headset	0.541	0.635	0.663	0.732	0.770	0.455	0.696
Body: Back facing phantom, Headset WH-902	0.510	0.535	0.546	0.638	0.781	0.438	0.710
Body: Display facing phantom, Without Headset	0.324	0.571	0.672	0.658	0.741	0.425	0.661
Body: Display facing phantom, Headset WH-902	0.261	0.453	0.497	0.511	0.752	0.426	0.662

The following table gives a more accurate assessment of the SAR values for simultaneous transmission. These values have been calculated using the SPEAG Combined Multiband algorithm, which is based on area scans. It a) converts the 2D area scans into 3D volume scans by assuming frequency-dependent decay characteristics for the E-field, b) sums the SAR values for WLAN2450 or WLAN5000 and the cellular bands point-by-point and c) calculates the combined average SAR values.

**Simultaneous transmissions: Combined body SAR results –
SPEAG Combined Multiband algorithm results**

Test configuration	Max. 1g SAR results						
	LTE750 + WLAN 2450	CDMA800 + WLAN 2450	4-slot GPRS850 + WLAN 2450	WCDMA850 + WLAN 2450	CDMA1900 + WLAN 2450	2-slot GPRS1900 + WLAN 2450	WCDMA1900 + WLAN 2450
Body: Back facing hantom, Without Headset	0.443	0.597	-	0.695	-	-	-
Body: Back facing phantom, Headset WH-902	-	-	-	-	0.787	0.462	0.711
Body: Display facing phantom, Without Headset	-	-	0.642	-	-	-	-
Body: Display facing phantom, Headset WH-902	-	-	-	-	-	-	-
Test configuration	Max. 1g SAR results						
	LTE750 + WLAN 5000	CDMA800 + WLAN 5000	4-slot GPRS850 + WLAN 5000	WCDMA850 + WLAN 5000	CDMA1900 + WLAN 5000	2-slot GPRS1900 + WLAN 5000	WCDMA1900 + WLAN 5000
Body: Back facing hantom, Without Headset	0.445	0.592	-	0.677	-	0.392	-
Body: Back facing phantom, Headset WH-902	-	-	-	-	0.715	-	0.651
Body: Display facing phantom, Without Headset	-	-	0.641	-	-	-	-
Body: Display facing phantom, Headset WH-902	-	-	-	-	-	-	-

Some of the Combined SAR values in the above table are less than the maximum SAR values for the contributing cellular band. This is due to a) minimal overlap of the SAR distributions of the cellular band with WLAN2450 or WLAN5000 and b) uncertainties associated with the different methods of calculation. In these cases, the maximum SAR values given for the combined Modes in the Summary table in Section 1.2 are those for the individual cellular band.

7.3 Body SAR assessment of Wireless Router mode at 10.0mm separation distance

LTE750 Wireless Router SAR results

Mode	Device orientation	SAR, averaged over 1g (W/kg)		
		-	Ch 23230 782.0 MHz	-
QPSK	Conducted Average Power	-	21.71 dBm	-
10MHz Ch BW 100% RB	Back facing phantom	-	0.532	-
	Display facing phantom	-	-	-
	Top edge facing phantom	-	-	-
	Bottom edge facing phantom	-	-	-
	Left edge facing phantom	-	-	-
	Right edge facing phantom	-	-	-
QPSK	Conducted Average Power	-	21.86 dBm	-
10MHz Ch BW 50% RB 50% offset	Back facing phantom	-	0.571	-
	Display facing phantom	-	-	-
	Top edge facing phantom	-	-	-
	Bottom edge facing phantom	-	-	-
	Left edge facing phantom	-	-	-
	Right edge facing phantom	-	-	-
QPSK	Conducted Average Power	-	23.12 dBm	-
10MHz Ch BW 1RB 50% offset	Back facing phantom	-	0.766	-
	Display facing phantom	-	0.342	-
	Top edge facing phantom	-	0.022	-
	Bottom edge facing phantom	-	0.073	-
	Left edge facing phantom	-	0.116	-
	Right edge facing phantom	-	0.745	-

(LTE750 table continues)

(LTE750 table continues)

Mode	Device orientation	SAR, averaged over 1g (W/kg)		
		-	Ch 23230 782.0 MHz	-
QPSK	Conducted Average Power	-	22.48 dBm	-
10MHz Ch BW 1RB 100% offset	Back facing phantom	-	0.580	-
	Display facing phantom			
	Top edge facing phantom	-		-
	Bottom edge facing phantom	-		-
	Left edge facing phantom	-		-
	Right edge facing phantom	-		-
QPSK	Conducted Average Power	-	22.84 dBm	-
10MHz Ch BW 1RB 0% offset	Back facing phantom	-	0.633	-
	Display facing phantom	-	-	-
	Top edge facing phantom	-	-	-
	Bottom edge facing phantom	-	-	-
	Left edge facing phantom	-	-	-
	Right edge facing phantom	-	-	-
16QAM	Conducted Average Power	-	20.71 dBm	-
10MHz Ch BW 100% RB	Back facing phantom	-	0.435	-
	Display facing phantom	-	-	-
	Top edge facing phantom	-	-	-
	Bottom edge facing phantom	-	-	-
	Left edge facing phantom	-	-	-
	Right edge facing phantom	-	-	-

(LTE750 table continues)

(LTE750 table continues)

Mode	Device orientation	SAR, averaged over 1g (W/kg)		
		-	Ch 23230 782.0 MHz	-
16QAM	Conducted Average Power	-	20.93 dBm	-
10MHz Ch BW 50% RB 50% offset	Back facing phantom	-	0.475	-
	Display facing phantom	-	-	-
	Top edge facing phantom	-	-	-
	Bottom edge facing phantom	-	-	-
	Left edge facing phantom	-	-	-
	Right edge facing phantom	-	-	-
16QAM	Conducted Average Power	-	21.61 dBm	-
10MHz Ch BW 1RB 50% offset	Back facing phantom	-	0.635	-
	Display facing phantom	-	-	-
	Top edge facing phantom	-	-	-
	Bottom edge facing phantom	-	-	-
	Left edge facing phantom	-	-	-
	Right edge facing phantom	-	-	-
16QAM	Conducted Average Power	-	21.05 dBm	-
10MHz Ch BW 1RB 100% offset	Back facing phantom	-	0.499	-
	Display facing phantom	-	-	-
	Top edge facing phantom	-	-	-
	Bottom edge facing phantom	-	-	-
	Left edge facing phantom	-	-	-
	Right edge facing phantom	-	-	-

(LTE750 table continues)

(LTE750 table continues)

Mode	Device orientation	SAR, averaged over 1g (W/kg)		
		-	Ch 23230 782.0 MHz	-
16QAM	Conducted Average Power	-	21.38 dBm	-
10MHz Ch BW 1RB 0% offset	Back facing phantom	-	0.533	-
	Display facing phantom	-	-	-
	Top edge facing phantom	-	-	-
	Bottom edge facing phantom	-	-	-
	Left edge facing phantom	-	-	-
	Right edge facing phantom	-	-	-

CDMA800 Band Wireless Router SAR results

Mode	Device orientation	SAR, averaged over 1g (W/kg)		
		Ch 1013 824.7 MHz	Ch 384 836.5 MHz	Ch 777 848.3 MHz
RC3 / S055	Conducted Average Power	23.54 dBm	23.40 dBm	23.50 dBm
	Back facing phantom	0.810	0.678	0.568
	Display facing phantom	-	0.613	-
	Top edge facing phantom	-	0.032	-
	Bottom edge facing phantom	-	0.141	-
	Left edge facing phantom	-	0.665	-
	Right edge facing phantom	-	0.252	-

850MHz Wireless Router SAR results

Option used	Device orientation	SAR, averaged over 1g (W/kg)		
		Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz
4-slot GPRS	Conducted Power	26.90 dBm	26.60 dBm	26.50 dBm
	Back facing phantom	-	0.657	-
	Display facing phantom	0.690	0.764	0.757
	Top edge facing phantom	-	0.044	-
	Bottom edge facing phantom	-	0.150	-
	Left edge facing phantom	-	0.605	-
	Right edge facing phantom	-	0.264	-
Option used	Device orientation	SAR, averaged over 1g (W/kg)		
		Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz
WCDMA	Conducted Power	23.20 dBm	23.25 dBm	23.33 dBm
	Back facing phantom	-	0.642	-
	Display facing phantom	-	0.613	-
	Top edge facing phantom	-	0.036	-
	Bottom edge facing phantom	-	0.117	-
	Left edge facing phantom	0.672	0.675	0.681
	Right edge facing phantom	-	0.330	-

CDMA1900 Band Wireless Router SAR results

Option used	Device orientation	SAR, averaged over 1g (W/kg)		
		Ch 25 1851.3 MHz	Ch 600 1880.0 MHz	Ch 1175 1908.8 MHz
RC3 / S055	Conducted Power	22.50 dBm	22.60 dBm	22.60 dBm
	Back facing phantom	1.03	1.06	0.981
	Display facing phantom	0.928	0.988	0.935
	Top edge facing phantom	-	0.063	-
	Bottom edge facing phantom	-	0.686	-
	Left edge facing phantom	-	0.204	-
	Right edge facing phantom	-	0.290	-

1900MHz Wireless Router SAR results

Mode	Device orientation	SAR, averaged over 1g (W/kg)		
		Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz
2-slot GPRS	Conducted Average Power	26.7 dBm	26.7 dBm	26.4 dBm
	Back facing phantom	0.674	0.674	0.595
	Display facing phantom	-	0.653	-
	Top edge facing phantom	-	0.049	-
	Bottom edge facing phantom	-	0.460	-
	Left edge facing phantom	-	0.146	-
	Right edge facing phantom	-	0.173	-
Mode	Device orientation	SAR, averaged over 1g (W/kg)		
		Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz
WCDMA	Maximum Output Power	22.15 dBm	22.11 dBm	21.86 dBm
	Back facing phantom	0.769	0.803	0.683
	Display facing phantom	-	0.760	-
	Top edge facing phantom	-	0.067	-
	Bottom edge facing phantom	-	0.662	-
	Left edge facing phantom	-	0.217	-
	Right edge facing phantom	-	0.239	-

2450MHz Wireless Router SAR results

Mode	Device orientation	SAR, averaged over 1g (W/kg)		
		Ch 1 2412.0 MHz	Ch 6 2437.0 MHz	Ch 11 2462.0 MHz
WLAN b-mode	Conducted Power	17.71 dBm	17.85 dBm	17.85 dBm
DSSS 5.5 Mbps	Back facing phantom	0.180	0.230	0.258
	Display facing phantom	-	0.132	-
	Top edge facing phantom	-	0.077	-
	Bottom edge facing phantom	-	0.021	-
	Left edge facing phantom	-	0.194	-
	Right edge facing phantom	-	0.012	-

**Simultaneous transmissions: Combined Wireless Router SAR results –
Individual band Max results**

Test configuration	Max. 1g SAR results							
	WLAN 2450	LTE 750	CDMA 800	4-slot GPRS 850	WCDMA 850	CDMA 1900	2-slot GPRS 1900	WCDMA 1900
WR: Back facing phantom	0.258	0.766	0.810	0.657	0.642	1.06	0.674	0.803
WR: Display facing phantom	0.132	0.342	0.613	0.764	0.613	0.988	0.653	0.760
WR: Top edge facing phantom	0.077	0.022	0.032	0.044	0.036	0.063	0.049	0.067
WR: Bottom edge facing phantom	0.021	0.073	0.141	0.150	0.117	0.686	0.460	0.662
WR: Left edge facing phantom	0.194	0.116	0.665	0.605	0.681	0.204	0.146	0.217
WR: Right edge facing phantom	0.012	0.745	0.252	0.264	0.330	0.290	0.173	0.239

Simultaneous transmissions: Combined SAR results – Max + Max combined results

Test configuration	Max. 1g SAR results						
	LTE750 + WLAN 2450	CDMA800 + WLAN 2450	4-slot GPRS850 + WLAN 2450	WCDMA850 + WLAN 2450	CDMA1900 + WLAN 2450	2-slot GPRS1900 + WLAN 2450	WCDMA 1900 + WLAN 2450
WR: Back facing phantom	1.024	1.068	0.915	0.900	1.318	0.932	1.061
WR: Display facing phantom	0.474	0.745	0.896	0.745	1.120	0.785	0.892
WR: Top edge facing phantom	0.099	0.109	0.121	0.113	0.140	0.126	0.144
WR: Bottom edge facing phantom	0.094	0.162	0.171	0.138	0.707	0.481	0.683
WR: Left edge facing phantom	0.310	0.859	0.799	0.875	0.398	0.340	0.411
WR: Right edge facing phantom	0.757	0.264	0.276	0.342	0.302	0.185	0.251

The following table gives a more accurate assessment of the SAR values for simultaneous transmission. These values have been calculated using the SPEAG Combined Multiband algorithm, which is based on area scans. It a) converts the 2D area scans into 3D volume scans by assuming frequency-dependent decay characteristics for the E-field, b) sums the SAR values for WLAN2450 and the cellular bands point-by-point and c) calculates the combined average SAR values.

**Simultaneous transmissions: Combined SAR results –
SPEAG Combined Multiband algorithm results**

Test configuration	Max. 1g SAR results						
	LTE750 + WLAN 2450	CDMA800 + WLAN 2450	4-slot GPRS850 + WLAN 2450	WCDMA850 + WLAN 2450	CDMA1900 + WLAN 2450	2-slot GPRS1900 + WLAN 2450	WCDMA 1900 + WLAN 2450
WR: Back facing phantom	0.759	0.889	0.689	0.688	1.12	0.730	0.878
WR: Display facing phantom	-	-	-	-	-	-	-
WR: Top edge facing phantom	-	-	-	-	-	-	-
WR: Bottom edge facing phantom	-	-	-	-	-	-	-
WR: Left edge facing phantom	-	-	-	-	-	-	-
WR: Right edge facing phantom	-	-	-	-	-	-	-

Note: Simultaneous Transmission Procedures as described in KDB648474 are not required for this product. The Combined SAR data given in the tables above has been voluntarily calculated.

Plots of the Measurement scans are given in Appendix B.

7.4 Head and Body SAR assessment of SVLTE mode

7.4.1 Head SAR results of SVLTE mode

LTE750 Band Head SAR results

Mode	Test configuration		SAR, averaged over 1g (W/kg)		
			-	Ch 23230 782.0 MHz	-
SVLTE**/QPSK	Conducted Average Power		-	19.43 dBm	-
10MHz Ch BW 1 RB 50% offset	Left	Cheek	-	0.136	-
		Tilt	-	0.082	-
	Right	Cheek	-	0.260	-
		Tilt	-	0.097	-

CDMA1900*** Band Head SAR results

Mode	Test configuration		SAR, averaged over 1g (W/kg)		
			Ch 25 1851.3 MHz	Ch 600 1880.0 MHz	Ch 1175 1908.8 MHz
RC3 / S055	Conducted Average Power		18.91 dBm	18.85 dBm	18.76 dBm
	Left	Cheek	0.362	0.355	0.325
		Tilt	-	0.137	-
	Right	Cheek	-	0.238	-
		Tilt	-	0.169	-

7.4.1.1 Expanded Volume Scans

Mode	Test configuration	SAR, averaged over 1g (W/kg)		
		-	Ch 23230 782.0 MHz	-
SVLTE/QPSK	Conducted Average Power	-	23.52 dBm	-
10MHz Ch BW 1 RB, 50% offset	Right, Cheek Expanded Volume scan	-	0.698	-
Mode	Test configuration	SAR, averaged over 1g (W/kg)		
		-	Ch 23230 782.0 MHz	-
SVLTE**/QPSK	Conducted Average Power	-	19.43 dBm	-
10MHz Ch BW 1 RB, 50% offset	Right, Cheek Expanded Volume scan	-	0.285	-
Mode	Test configuration	SAR, averaged over 1g (W/kg)		
		Ch 1013 824.7 MHz	Ch 384 836.5 MHz	Ch 777 848.3 MHz
CDMA800	Conducted Average Power	-	23.40 dBm	-
RC3/S055	Right, Cheek Expanded Volume scan	-	0.472	-
Mode	Test configuration	SAR, averaged over 1g (W/kg)		
		Ch 25 1851.3 MHz	Ch 600 1880.0 MHz	Ch 1175 1908.8 MHz
CDMA1900	Conducted Average Power	-	22.60 dBm	-
RC3/S055	Right, Cheek Expanded Volume scan	-	0.744	-
CDMA1900***	Conducted Average Power	-	18.85 dBm	-
RC3/S055	Right, Cheek Expanded Volume scan	-	0.255	-
Mode	Test configuration	SAR, averaged over 1g (W/kg)		
		Ch 1 2412.0 MHz	Ch 6 2437.0 MHz	Ch 11 2462.0 MHz
WLAN2450	Conducted Average Power	-	-	17.85 dBm
b-mode	Right, Cheek Expanded Volume scan	-	-	0.757
Mode	Test configuration	SAR, averaged over 1g (W/kg)		
		-	-	Ch 56 5280.0 MHz
WLAN5000	Conducted Average Power	-	-	11.85 dBm
a-mode	Right, Cheek Expanded Volume scan	-	-	0.226

Simultaneous transmissions: Combined SAR results – Individual band Max results

Test configuration	Max. 1g SAR results						
	WLAN 2450	WLAN 5000	SVLTE 750	SVLTE 750**	CDMA 800	CDMA 1900	CDMA 1900***
Head: Left, Cheek	0.227	0.133	0.374	0.136	0.708	1.03	0.362
Head: Left, Tilt	0.245	0.051	0.175	0.082	0.456	0.424	0.137
Head: Right, Cheek	0.639	0.259	0.627	0.260	0.556	0.833	0.238
Head: Right, Tilt	0.168	0.070	0.250	0.097	0.460	0.540	0.169

Simultaneous transmissions: Combined head SAR results – Max + Max combined results for SVLTE mode

Test configuration	SVLTE750 + CDMA800	SVLTE750 + CDMA1900***	SVLTE750** + CDMA1900	SVLTE750 + CDMA800 + WLAN2450	SVLTE750 + CDMA800 + WLAN5000
Head: Left, Cheek	1.082	0.736	1.166	1.309	1.215
Head: Left, Tilt	0.631	0.312	0.506	0.876	0.682
Head: Right, Cheek	1.183	0.865	1.093	1.822	1.442
Head: Right, Tilt	0.710	0.419	0.637	0.878	0.780
Test configuration	SVLTE750 + CDMA1900*** + WLAN2450	SVLTE750 + CDMA1900*** + WLAN5000	SVLTE750** + CDMA1900 + WLAN2450	SVLTE750** + CDMA1900 + WLAN5000	
Head: Left, Cheek	0.963	0.869	1.393	1.299	
Head: Left, Tilt	0.557	0.363	0.751	0.557	
Head: Right, Cheek	1.504	1.124	1.732	1.352	
Head: Right, Tilt	0.587	0.489	0.805	0.707	

The 1.822 W/kg, which is 2.041 W/kg when scaled up by 12%, Right Cheek SAR value for SVLTE750+CDMA800+WLAN2450 comprises the individual values of 0.627 for SVLTE750, 0.556 for CDMA800 and 0.639 for WLAN2450.

- For the combination of SVLTE750 and CDMA800, the Antenna Pair SAR to Peak Separation Ratio is $1.325/4.33 = 0.31$ i.e. > 0.3
- For the combination of SVLTE750 and WLAN2450, the Antenna Pair SAR to Peak Separation Ratio is $1.418/7.58 = 0.19$ i.e. < 0.3
- For the combination of CDMA800 and WLAN2450, the Antenna Pair SAR to Peak Separation Ratio is $1.338/3.78 = 0.35$ i.e. > 0.3

Therefore, according to KDB648474 D01 SAR Handsets Multi Xmitter and Ant, v01r05, Simultaneous Transmission Procedures are required. Expanded zoom SAR scans (presented in Appendix B.4) fully including the Right Cheek SAR distributions of SVLTE750, CDMA800 and WLAN2450 were performed. The resulting combined SAR value was 1.06 W/kg which is 1.19 W/kg as scaled.

The 1.732 W/kg, which is 1.940 W/kg when scaled up by 12%, Right Cheek SAR value for SVLTE750**+CDMA1900+WLAN2450 comprises the individual values of 0.260 for SVLTE750**, 0.833 for CDMA1900 and 0.639 for WLAN2450.

- For the combination of SVLTE750** and CDMA1900, the Antenna Pair SAR to Peak Separation Ratio is $1.224/1.58 = 0.77$ i.e. > 0.3
- For the combination of SVLTE750** and WLAN2450, the Antenna Pair SAR to Peak Separation Ratio is $1.007/7.77 = 0.13$ i.e. < 0.3
- For the combination of CDMA1900 and WLAN2450, the Antenna Pair SAR to Peak Separation Ratio is $1.649/6.89 = 0.24$ i.e. < 0.3

Therefore, according to KDB648474 D01 SAR Handsets Multi Xmitter and Ant, v01r05, Simultaneous Transmission Procedures are required. Expanded zoom SAR scans (presented in Appendix B.4) fully including the Right Cheek SAR distributions of SVLTE750**, CDMA1900 and WLAN2450 were performed. The resulting combined SAR value was 1.06 W/kg which is 1.19 W/kg as scaled.

The 1.504 W/kg, which is 1.684 W/kg when scaled up by 12%, Right Cheek SAR value for SVLTE750+CDMA1900***+WLAN2450 comprises the individual values of 0.627 for SVLTE750, 0.238 for CDMA1900*** and 0.639 for WLAN2450.

- For the combination of SVLTE750 and CDMA1900***, the Antenna Pair SAR to Peak Separation Ratio is $0.970/2.18 = 0.44$ i.e. > 0.3
- For the combination of SVLTE750 and WLAN2450, the Antenna Pair SAR to Peak Separation Ratio is $1.418/7.58 = 0.19$ i.e. < 0.3
- For the combination of CDMA1900*** and WLAN2450, the Antenna Pair SAR to Peak Separation Ratio is $0.982/6.72 = 0.15$ i.e. < 0.3

Therefore, according to KDB648474 D01 SAR Handsets Multi Xmitter and Ant, v01r05, Simultaneous Transmission Procedures are required. Expanded zoom SAR scans (presented in Appendix B.4) fully including the Right Cheek SAR distributions of SVLTE750, CDMA1900 and WLAN2450 were performed. The resulting combined SAR value was 0.954 W/kg which is 1.07 W/kg as scaled.

The 1.442 W/kg, which is 1.615 W/kg when scaled up by 12%, Right Cheek SAR value for SVLTE750**+CDMA800+WLAN5000 comprises the individual values of 0.627 for SVLTE750**, 0.556 for CDMA800 and 0.259 for WLAN5000.

- For the combination of SVLTE750** and CDMA800, the Antenna Pair SAR to Peak Separation Ratio is $1.325/4.33 = 0.31$ i.e. > 0.3
- For the combination of SVLTE750** and WLAN5000, the Antenna Pair SAR to Peak Separation Ratio is $0.992/7.94 = 0.12$ i.e. < 0.3
- For the combination of CDMA800 and WLAN5000, the Antenna Pair SAR to Peak Separation Ratio is $0.913/3.78 = 0.24$ i.e. < 0.3

Therefore, according to KDB648474 D01 SAR Handsets Multi Xmitter and Ant, v01r05, Simultaneous Transmission Procedures are required. Expanded zoom SAR scans (presented in Appendix B.4) fully including the Right Cheek SAR distributions of SVLTE750, CDMA1900 and

WLAN2450 were performed. The resulting combined SAR value was 0.857 W/kg which is 0.960 W/kg as scaled.

**Simultaneous transmissions: Combined head SAR results –
SPEAG Combined Multiband algorithm results for SVLTE mode**

Test configuration	SVLTE750 + CDMA800	SVLTE750 + CDMA1900***	SVLTE750** + CDMA1900	SVLTE750 + CDMA800 + WLAN2450	SVLTE750 + CDMA800 + WLAN5000
Head: Left, Cheek	-	-	1.10	-	-
Head: Left, Tilt	-	-	-	-	-
Head: Right, Cheek	0.960	0.696	-	1.03	0.976
Head: Right, Tilt	-	-	-	-	-
Test configuration	SVLTE750 + CDMA1900*** + WLAN2450	SVLTE750 + CDMA1900*** + WLAN5000	SVLTE750** + CDMA1900 + WLAN2450	SVLTE750** + CDMA1900 + WLAN5000	
Head: Left, Cheek	-	-	-	-	
Head: Left, Tilt	-	-	-	-	
Head: Right, Cheek	0.871	0.701	1.06	1.05	
Head: Right, Tilt	-	-	-	-	

**Simultaneous transmissions: Combined head SAR results –
SPEAG Combined Volume scan results for SVLTE mode**

Test configuration	SVLTE750 + CDMA800	SVLTE750 + CDMA1900***	SVLTE750** + CDMA1900	SVLTE750 + CDMA800 + WLAN2450	SVLTE750 + CDMA800 + WLAN5000
Head: Left, Cheek	-	-	-	-	-
Head: Left, Tilt	-	-	-	-	-
Head: Right, Cheek	-	-	-	1.06	0.857
Head: Right, Tilt	-	-	-	-	-
Test configuration	SVLTE750 + CDMA1900*** + WLAN2450	SVLTE750 + CDMA1900*** + WLAN5000	SVLTE750** + CDMA1900 + WLAN2450	SVLTE750** + CDMA1900 + WLAN5000	
Head: Left, Cheek	-	-	-	-	
Head: Left, Tilt	-	-	-	-	
Head: Right, Cheek	0.954	-	1.06	-	
Head: Right, Tilt	-	-	-	-	

**No power reduction to LTE750 in SVLTE mode when using CDMA800, or when using CDMA1900 and the CDMA1900 TX power is less than 18.5 dBm.

***LTE power is not reduced when CDMA1900 TX power is less than 18.5 dBm.

Note: SVLTE750** indicates reduced-power LTE750

CDMA1900*** indicates reduced-power CDMA1900

Full details of power reductions active in SVLTE mode are given in Section 2.1

7.4.2 Body SAR results of SVLTE mode

LTE750 Band Body SAR results

Mode	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			-	Ch 23230 782.0 MHz	-
SVLTE**/QPSK	Conducted Average Power		-	19.43 dBm	-
10MHz Ch BW 1RB 50% offset	Back facing phantom	Without headset	-	0.193	-
		Headset WH-902	-	0.184	-
	Display facing phantom	Without headset	-	0.119	-
		Headset WH-902	-	0.098	-

CDMA1900*** Band Body SAR results

Mode	Device orientation	Test configuration	SAR, averaged over 1g (W/kg)		
			Ch 25 1851.3 MHz	Ch 600 1880.0 MHz	Ch 1175 1908.8 MHz
RC3 / S055	Conducted Average Power		18.91 dBm	18.85 dBm	18.76 dBm
	Back facing phantom	Without headset	-	0.219	-
		Headset WH-902	-	0.215	-
	Display facing phantom	Without headset	-	0.238	-
		Headset WH-902	0.257	0.244	0.248

Simultaneous transmissions: Combined SAR results – Individual band Max results

Test configuration	Max. 1g SAR results						
	WLAN 2450	WLAN 5000	SVLTE 750	SVLTE 750**	CDMA 800	CDMA 1900	CDMA 1900***
Body: Back facing phantom, Without Headset	0.091	0.089	0.452	0.193	0.546	0.681	0.219
Body: Back facing phantom, Headset WH-902	0.130	0.089	0.421	0.184	0.446	0.692	0.215
Body: Display facing phantom, Without Headset	0.072	0.037	0.287	0.119	0.534	0.704	0.238
Body: Display facing phantom, Headset WH-902	0.062	0.033	0.228	0.098	0.420	0.719	0.257

**Simultaneous transmissions: Combined body SAR results –
Max + Max combined results for SVLTE mode**

Test configuration	SVLTE750 + CDMA800	SVLTE750 + CDMA1900***	SVLTE750** + CDMA1900	SVLTE750 + CDMA800 + WLAN2450	SVLTE750 + CDMA800 + WLAN5000
Body: Back facing phantom, Without Headset	0.998	0.671	0.874	1.089	1.087
Body: Back facing phantom, Headset WH-902	0.867	0.636	0.876	0.997	0.956
Body: Display facing phantom, Without Headset	0.821	0.525	0.823	0.893	0.858
Body: Display facing phantom, Headset WH-902	0.648	0.485	0.817	0.710	0.681
Test configuration	SVLTE750 + CDMA1900*** + WLAN2450	SVLTE750 + CDMA1900*** + WLAN5000	SVLTE750** + CDMA1900 + WLAN2450	SVLTE750** + CDMA1900 + WLAN5000	
Body: Back facing phantom, Without Headset	0.762	0.760	0.965	0.963	
Body: Back facing phantom, Headset WH-902	0.766	0.725	1.006	0.965	
Body: Display facing phantom, Without Headset	0.597	0.562	0.895	0.860	
Body: Display facing phantom, Headset WH-902	0.547	0.518	0.879	0.850	

**Simultaneous transmissions: Combined body SAR results –
SPEAG Combined Multiband algorithm results for SVLTE**

Test configuration	SVLTE750 + CDMA800	SVLTE750 + CDMA1900***	SVLTE750** + CDMA1900	SVLTE750 + CDMA800 + WLAN2450	SVLTE750 + CDMA800 + WLAN5000
Body: Back facing phantom, Without Headset	0.897	0.568	-	0.920	0.915
Body: Back facing phantom, Headset WH-902	-	-	0.767	-	-
Body: Display facing phantom, Without Headset	-	-	-	-	-
Body: Display facing phantom, Headset WH-902	-	-	-	-	-
Test configuration	SVLTE750 + CDMA1900*** + WLAN2450	SVLTE750 + CDMA1900*** + WLAN5000	SVLTE750** + CDMA1900 + WLAN2450	SVLTE750** + CDMA1900 + WLAN5000	
Body: Back facing phantom, Without Headset	-	0.567	-	-	
Body: Back facing phantom, Headset WH-902	0.533	-	0.801	0.775	
Body: Display facing phantom, Without Headset	-	-	-	-	
Body: Display facing phantom, Headset WH-902	-	-	-	-	

**No power reduction to LTE750 in SVLTE mode when using CDMA800, or when using CDMA1900 and the CDMA1900 TX power is less than 18.5 dBm.

***LTE power is not reduced when CDMA1900 TX power is less than 18.5 dBm.

APPENDIX A: SYSTEM CHECKING SCANS

Date/Time: 2012-07-18 06:34:39

Test Laboratory: TCC Nokia

Type: D750V3; Serial: D750V3 - SN:1034

Communication System: CW750

Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 750 MHz; σ = 0.914 mho/m; ϵ_r = 40.555; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.27 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.107 V/m

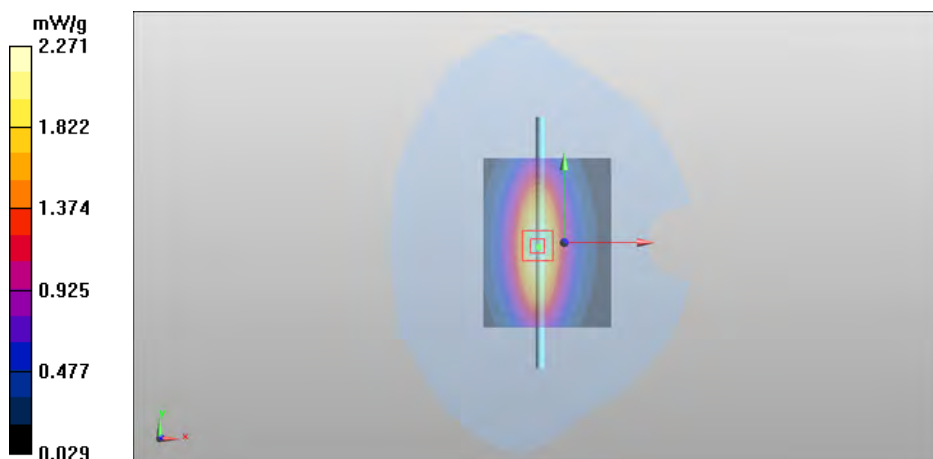
Peak SAR (extrapolated) = 3.145 mW/g

SAR(1 g) = 2.12 mW/g

SAR(10 g) = 1.38 mW/g

Power Drift = -0.07 dB

Maximum value of SAR (measured) = 2.28 mW/g



Date/Time: 2012-07-19 06:40:19

Test Laboratory: TCC Nokia
Type: D750V3; Serial: D750V3 - SN:1034

Communication System: CW750

Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 750 MHz; σ = 0.914 mho/m; ϵ_r = 40.645; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.29 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.887 V/m

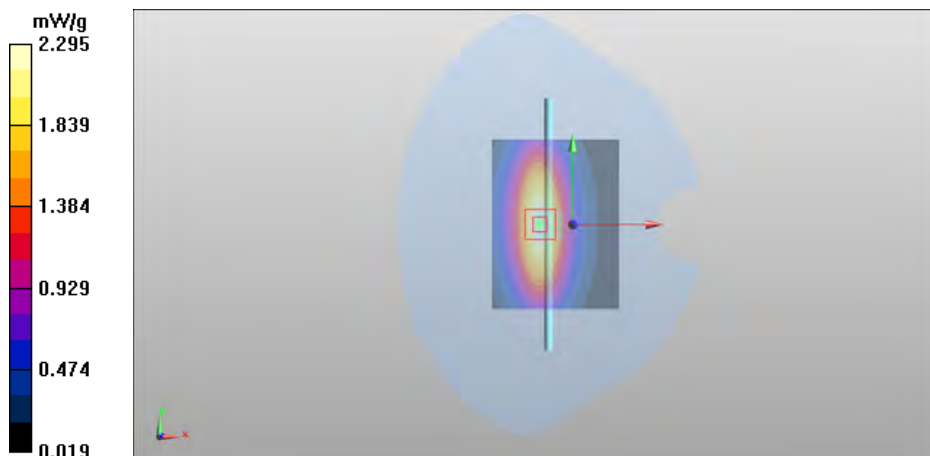
Peak SAR (extrapolated) = 3.160 mW/g

SAR(1 g) = 2.13 mW/g

SAR(10 g) = 1.39 mW/g

Power Drift = -0.06 dB

Maximum value of SAR (measured) = 2.30 mW/g



Date/Time: 2012-07-23 14:54:27

Test Laboratory: TCC Nokia

Type: D750V3; Serial: D750V3 - SN:1034

Communication System: CW750

Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.1

Medium parameters used: f = 750 MHz; σ = 0.905 mho/m; ϵ_r = 40.196; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.29 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.140 V/m

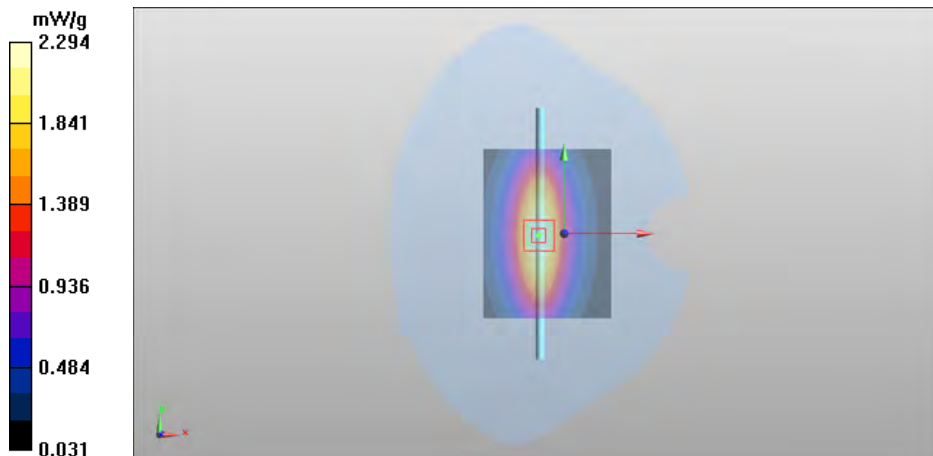
Peak SAR (extrapolated) = 3.214 mW/g

SAR(1 g) = 2.16 mW/g

SAR(10 g) = 1.41 mW/g

Power Drift = 0.09 dB

Maximum value of SAR (measured) = 2.33 mW/g



Date/Time: 2012-08-11 18:57:09

Test Laboratory: TCC Nokia

Type: D750V3; Serial: D750V3 - SN:1034

Communication System: CW750

Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 20.6 C

Medium parameters used: f = 750 MHz; σ = 0.914 mho/m; ϵ_r = 41.028; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.29 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.859 V/m

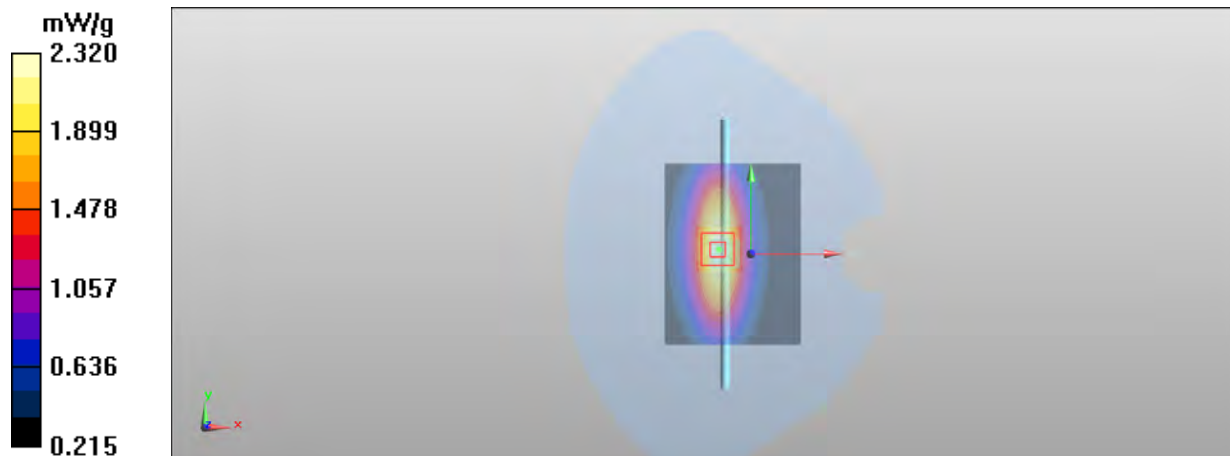
Peak SAR (extrapolated) = 3.168 mW/g

SAR(1 g) = 2.15 mW/g

SAR(10 g) = 1.41 mW/g

Power Drift = 0.00 dB

Maximum value of SAR (measured) = 2.32 mW/g



Date/Time: 2012-09-04 12:10:25

Test Laboratory: TCC Nokia

Type: D750V3; Serial: D750V3 - SN:1034

Communication System: CW750

Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.1

Medium parameters used: $f = 750$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 40.559$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.26 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.779 V/m

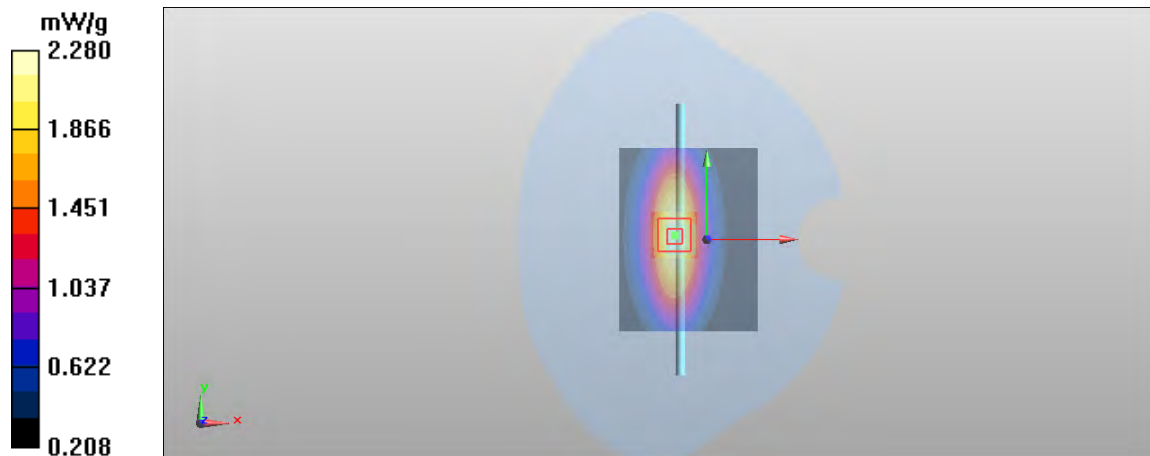
Peak SAR (extrapolated) = 3.142 mW/g

SAR(1 g) = 2.11 mW/g

SAR(10 g) = 1.38 mW/g

Power Drift = 0.05 dB

Maximum value of SAR (measured) = 2.28 mW/g



Date/Time: 2012-07-19 10:48:58

Test Laboratory: TCC Nokia

Type: D835V3; Serial: D835V3 - SN:487

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Muscle 850 MHz; Medium Notes:

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.898 \text{ mho/m}$; $\epsilon_r = 41.754$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn420; Calibrated: 2011-07-21
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

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 = 57.764 V/m

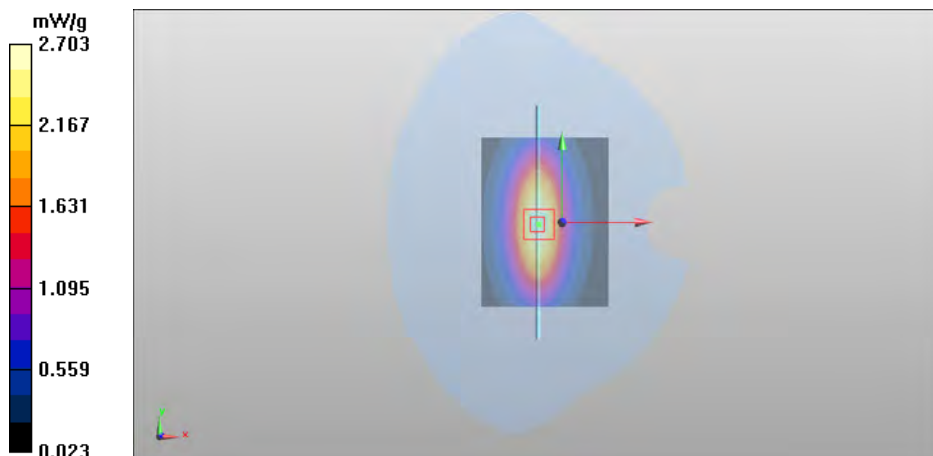
Peak SAR (extrapolated) = 3.722 mW/g

SAR(1 g) = 2.51 mW/g

SAR(10 g) = 1.64 mW/g

Power Drift = -0.02 dB

Maximum value of SAR (measured) = 2.71 mW/g



Date/Time: 2012-08-07 08:50:05

Test Laboratory: TCC Nokia

Type: D835V2; Serial: D835V2 - SN:487

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL900; Medium Notes: T22.1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.886$ mho/m; $\epsilon_r = 40.934$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.46 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.272 V/m

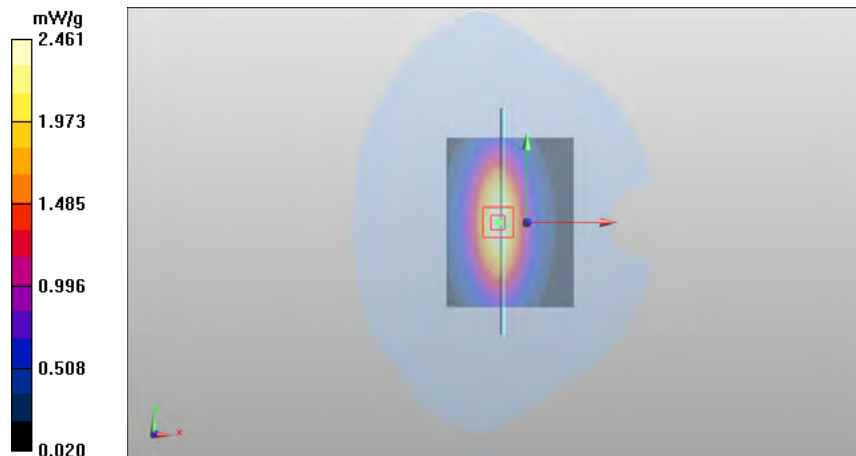
Peak SAR (extrapolated) = 3.407 mW/g

SAR(1 g) = 2.3 mW/g

SAR(10 g) = 1.5 mW/g

Power Drift = 0.00 dB

Maximum value of SAR (measured) = 2.47 mW/g



Date/Time: 2012-08-11 17:26:11

Test Laboratory: TCC Nokia
Type: D835V2; Serial: D835V2 - SN:487

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL900; Medium Notes:

Medium parameters used: $f = 835$ MHz; $\sigma = 0.874$ mho/m; $\epsilon_r = 40.235$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(6.29, 6.29, 6.29); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2012-07-31
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.44 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.275 V/m

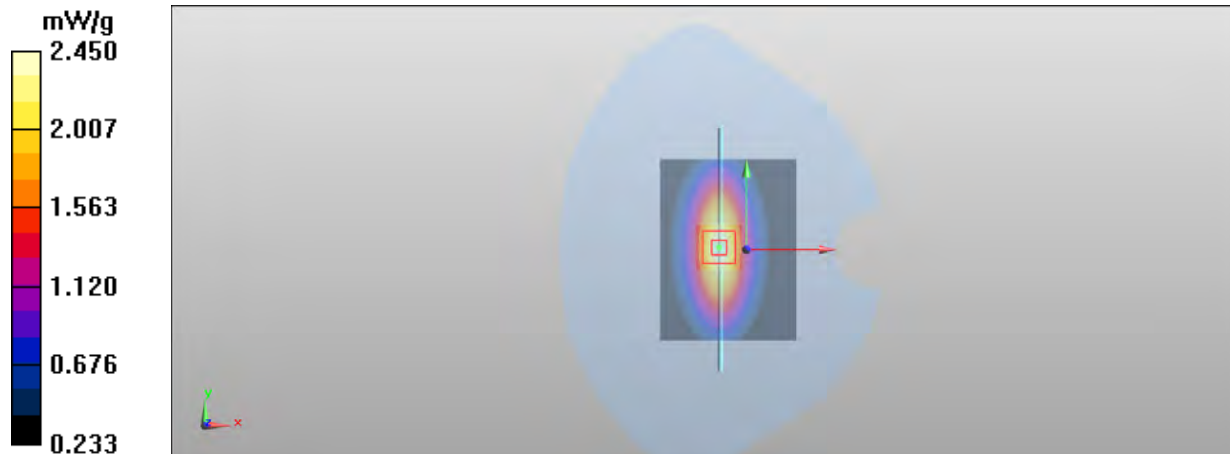
Peak SAR (extrapolated) = 3.225 mW/g

SAR(1 g) = 2.27 mW/g

SAR(10 g) = 1.5 mW/g

Power Drift = -0.02 dB

Maximum value of SAR (measured) = 2.45 mW/g



Date/Time: 2012-07-26 15:17:07

Test Laboratory: TCC Nokia

Type: D835V2; Serial: D835V2 - SN:462

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL850; Medium Notes: t= 21.2 C

Medium parameters used: f = 835 MHz; σ = 0.926 mho/m; ϵ_r = 40.575; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.88, 5.88, 5.88); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.58 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.991 V/m

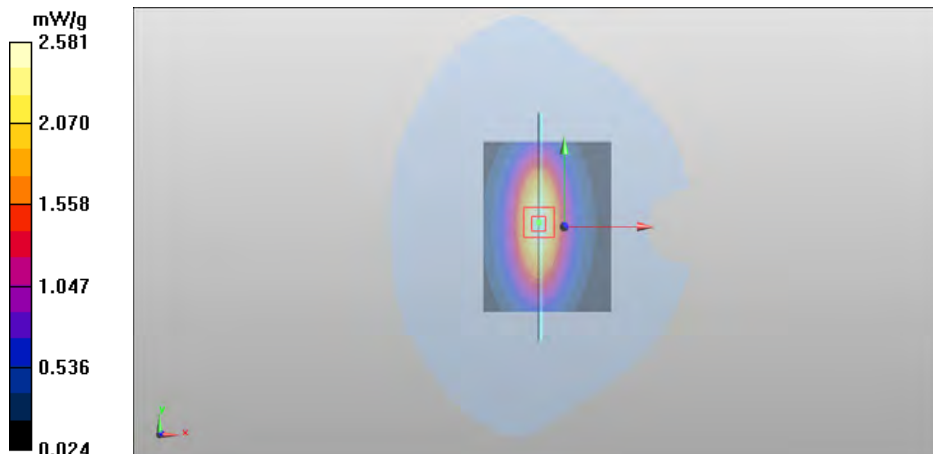
Peak SAR (extrapolated) = 3.507 mW/g

SAR(1 g) = 2.41 mW/g

SAR(10 g) = 1.58 mW/g

Power Drift = -0.01 dB

Maximum value of SAR (measured) = 2.60 mW/g



Date/Time: 2012-07-29 14:46:19

Test Laboratory: TCC Nokia

Type: D835V2; Serial: D835V2 - SN:462

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL850; Medium Notes: t= 21.4 C

Medium parameters used: f = 835 MHz; σ = 0.927 mho/m; ϵ_r = 40.715; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.88, 5.88, 5.88); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.53 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.450 V/m

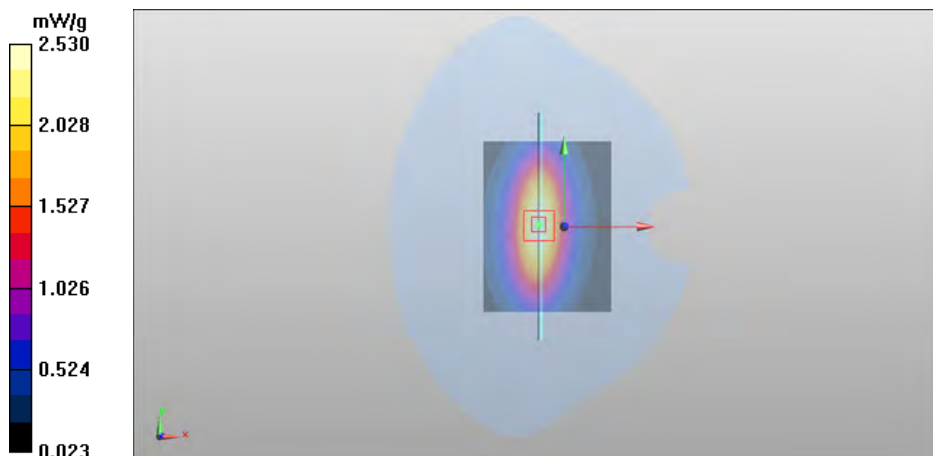
Peak SAR (extrapolated) = 3.440 mW/g

SAR(1 g) = 2.35 mW/g

SAR(10 g) = 1.55 mW/g

Power Drift = -0.03 dB

Maximum value of SAR (measured) = 2.55 mW/g



Date/Time: 2012-08-07 16:08:11

Test Laboratory: TCC Nokia
Type: D835V2; Serial: D835V2 - SN:462

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL850; Medium Notes: t= 20,8 C

Medium parameters used: f = 835 MHz; σ = 0.912 mho/m; ϵ_r = 40.222; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.88, 5.88, 5.88); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.49 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.655 V/m

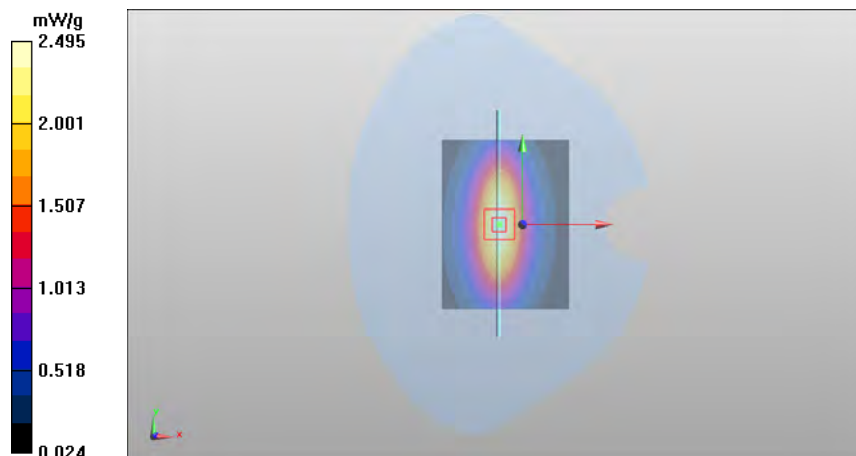
Peak SAR (extrapolated) = 3.358 mW/g

SAR(1 g) = 2.31 mW/g

SAR(10 g) = 1.52 mW/g

Power Drift = -0.03 dB

Maximum value of SAR (measured) = 2.49 mW/g



Date/Time: 2012-07-18 09:32:50

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN:5d099

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes:

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.466$ mho/m; $\epsilon_r = 38.876$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2011-07-21
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 13.1 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.370 V/m

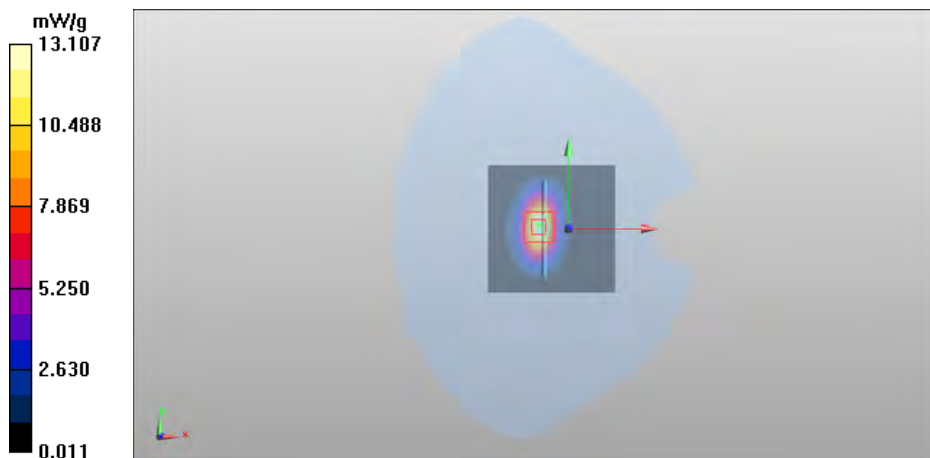
Peak SAR (extrapolated) = 17.875 mW/g

SAR(1 g) = 10.1 mW/g

SAR(10 g) = 5.28 mW/g

Power Drift = 0.14 dB

Maximum value of SAR (measured) = 12.9 mW/g



Date/Time: 2012-07-21 15:58:15

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN5d099

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes:

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.449$ mho/m; $\epsilon_r = 38.565$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250 mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.1 mW/g

d=10mm, Pin=250 mW /Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.365 V/m

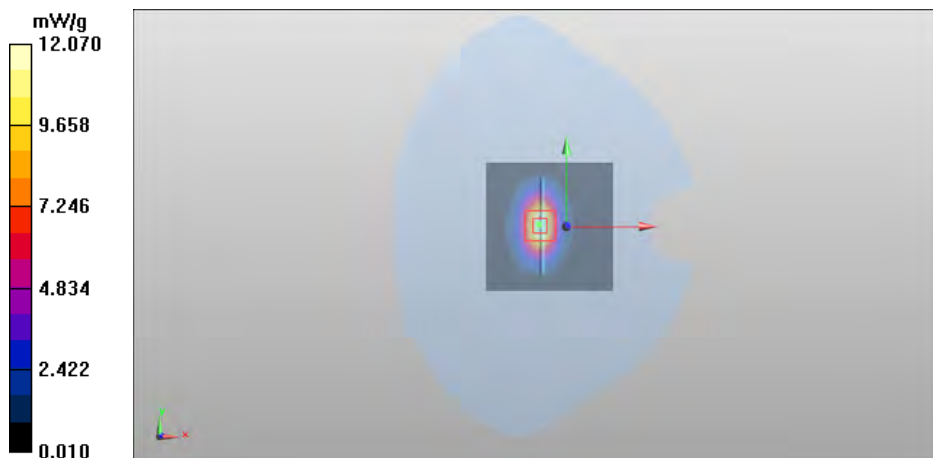
Peak SAR (extrapolated) = 17.838 mW/g

SAR(1 g) = 10.1 mW/g

SAR(10 g) = 5.32 mW/g

Power Drift = -0.02 dB

Maximum value of SAR (measured) = 11.4 mW/g



Date/Time: 2012-07-23 14:35:01

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN5d099

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=22.5

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.421$ mho/m; $\epsilon_r = 38.356$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250 mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.6 mW/g

d=10mm, Pin=250 mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 92.749 V/m

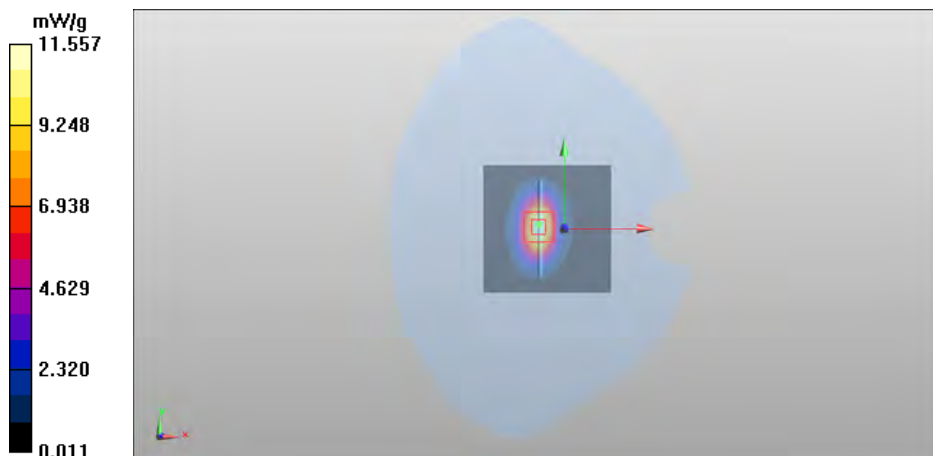
Peak SAR (extrapolated) = 17.038 mW/g

SAR(1 g) = 9.66 mW/g

SAR(10 g) = 5.06 mW/g

Power Drift = -0.03 dB

Maximum value of SAR (measured) = 10.9 mW/g



Date/Time: 2012-07-27 11:59:15

Test Laboratory: TCC Nokia
Type: D1900V2; Serial: D1900V2 - SN:5d099

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=22.0

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.458$ mho/m; $\epsilon_r = 39.449$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250 mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.6 mW/g

d=10mm, Pin=250 mW/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.769 V/m

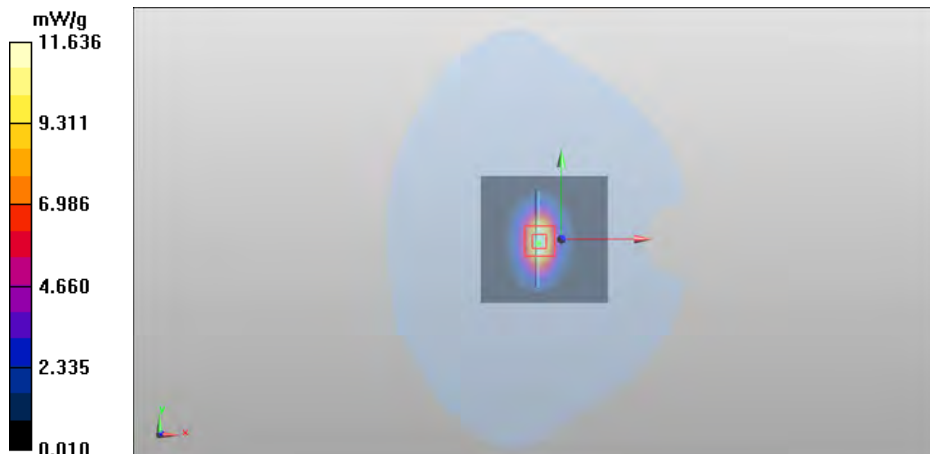
Peak SAR (extrapolated) = 17.530 mW/g

SAR(1 g) = 9.96 mW/g

SAR(10 g) = 5.24 mW/g

Power Drift = 0.00 dB

Maximum value of SAR (measured) = 11.2 mW/g



Date/Time: 2012-07-30 18:22:40

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN5d099

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=22.4

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 39.211$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.4 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.296 V/m

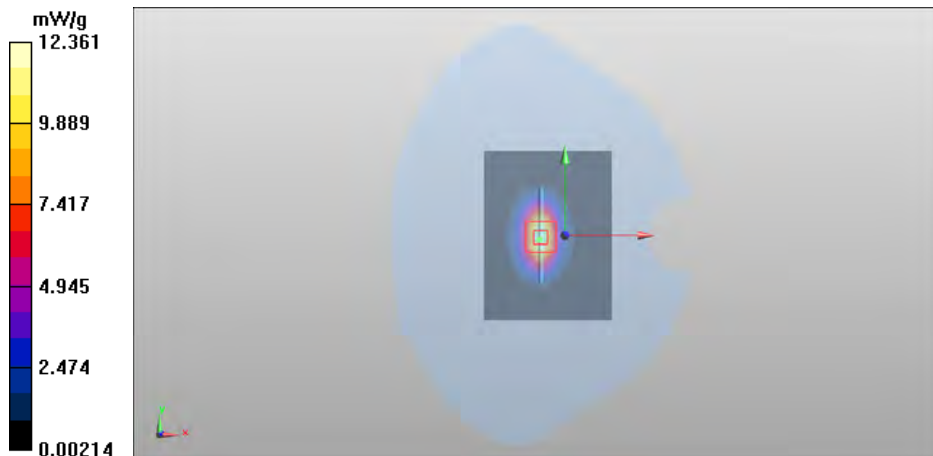
Peak SAR (extrapolated) = 17.966 mW/g

SAR(1 g) = 10.2 mW/g

SAR(10 g) = 5.39 mW/g

Power Drift = 0.02 dB

Maximum value of SAR (measured) = 11.5 mW/g



Date/Time: 2012-08-28 21:25:01

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN:5d099

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=22.3C

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.404$ mho/m; $\epsilon_r = 39.19$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(4.92, 4.92, 4.92); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2012-08-15
- Phantom: SAM1; Type: QD000P40CC; Serial: TP:1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=4.0mm/Area Scan

(61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 10.6 mW/g

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=4.0mm/Zoom Scan

(7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 90.708 V/m

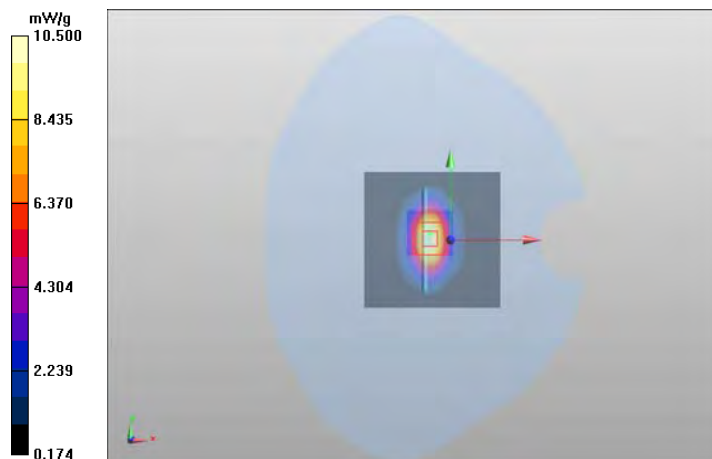
Peak SAR (extrapolated) = 15.411 mW/g

SAR(1 g) = 9.22 mW/g

SAR(10 g) = 4.9 mW/g

Power Drift = -0.17 dB

Maximum value of SAR (measured) = 10.5 mW/g



Date/Time: 2012-09-04 09:57:27

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN5d099

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes:

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.449$ mho/m; $\epsilon_r = 39.911$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(4.92, 4.92, 4.92); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2012-08-15
- Phantom: SAM1; Type: QD000P40CC; Serial: TP:1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.6 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.508 V/m

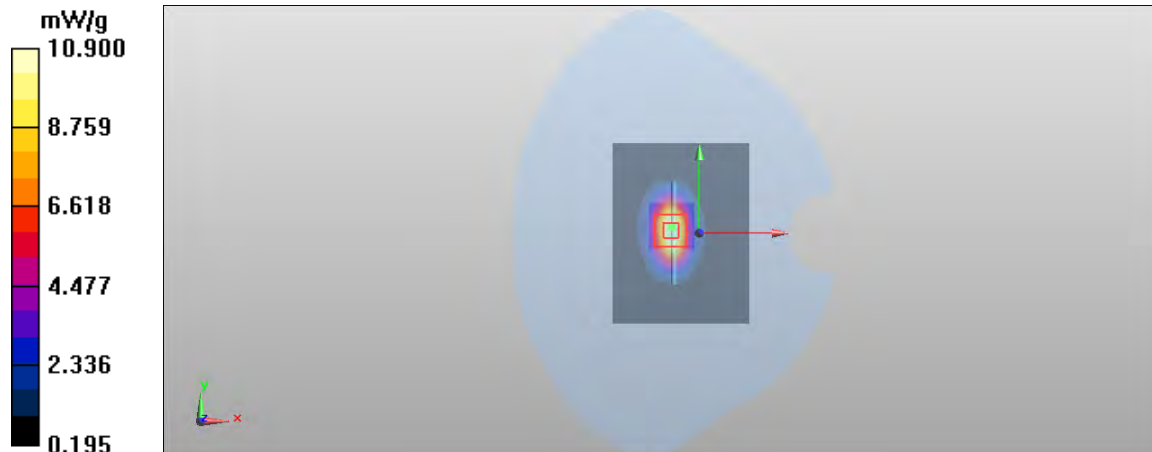
Peak SAR (extrapolated) = 16.064 mW/g

SAR(1 g) = 9.61 mW/g

SAR(10 g) = 5.13 mW/g

Power Drift = -0.06 dB

Maximum value of SAR (measured) = 10.9 mW/g



Date/Time: 2012-07-20 08:22:10

Test Laboratory: TCC Nokia

Type: D2450V2; Serial: D2450V2 - SN:729

Communication System: CW2450

Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL 2450; Medium Notes: t= 21.0 C

Medium parameters used: f = 2450 MHz; σ = 1.795 mho/m; ϵ_r = 37.957; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 16.0 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.835 V/m

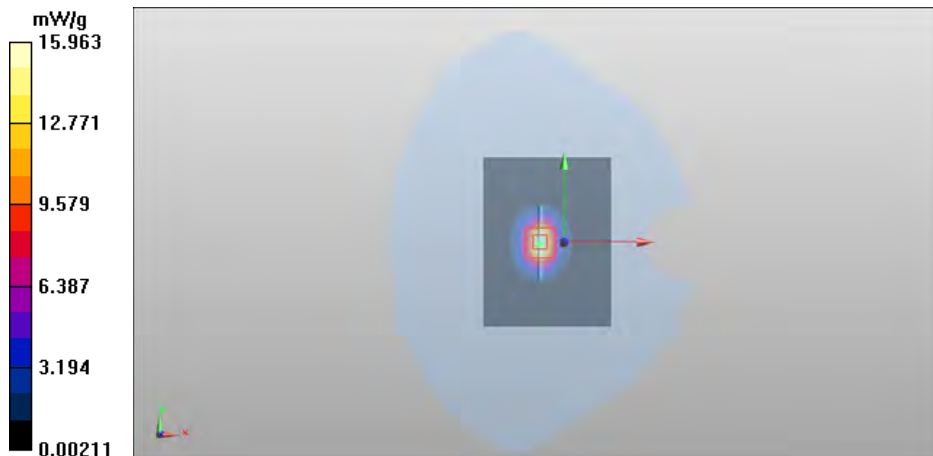
Peak SAR (extrapolated) = 28.848 mW/g

SAR(1 g) = 13.8 mW/g

SAR(10 g) = 6.38 mW/g

Power Drift = -0.04 dB

Maximum value of SAR (measured) = 15.6 mW/g



Date/Time: 2012-08-11 18:46:50

Test Laboratory: TCC Nokia

Type: D2450V2; Serial: D2450V2 - SN:729

Communication System: CW2450

Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: t= 21.3 C

Medium parameters used: f = 2450 MHz; σ = 1.805 mho/m; ϵ_r = 37.93; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.4 (4989)

d=10mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 16.277 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.5 V/m

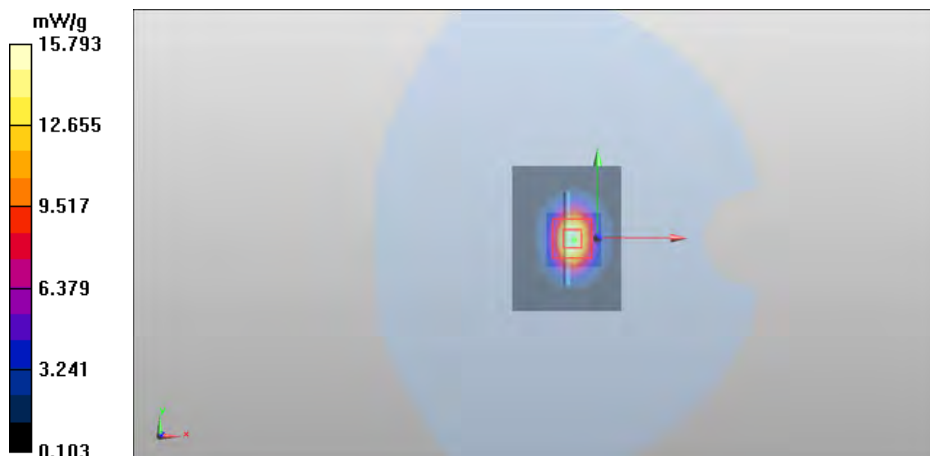
Peak SAR (extrapolated) = 28.7010

SAR(1 g) = 13.8 mW/g

SAR(10 g) = 6.39 mW/g

Power Drift = 0.04 dB

Maximum value of SAR (measured) = 15.793 mW/g



Date/Time: 2012-07-31 16:45:01

Test Laboratory: TCC Nokia

Type: D5GHzV2; Serial: D5GHzV2 - SN: 1032

Communication System: CW5200

Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5200; Medium Notes: 20.8 C

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.591$ mho/m; $\epsilon_r = 34.956$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(4.81, 4.81, 4.81); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM1; Type: SAM; Serial: TP-1126
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=100mW/Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 17.9 mW/g

d=10mm, Pin=100mW/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 62.826 V/m

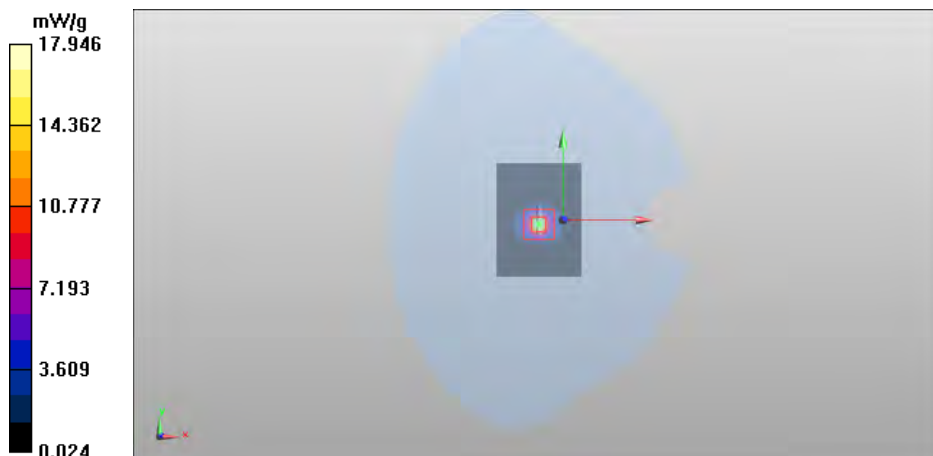
Peak SAR (extrapolated) = 32.246 mW/g

SAR(1 g) = 8.25 mW/g

SAR(10 g) = 2.34 mW/g

Power Drift = 0.09 dB

Maximum value of SAR (measured) = 15.8 mW/g



Date/Time: 2012-09-04 08:53:18

Test Laboratory: TCC Nokia

Type: D5GHzV2; Serial: D5GHzV2 - SN: 1032

Communication System: CW5200

Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL5000; Medium Notes: 21.3 C

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.534$ mho/m; $\epsilon_r = 35.079$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(4.81, 4.81, 4.81); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM1; Type: SAM; Serial: TP-1126
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=100mW/Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 16.4 mW/g

d=15mm, Pin=100mW/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 63.070 V/m

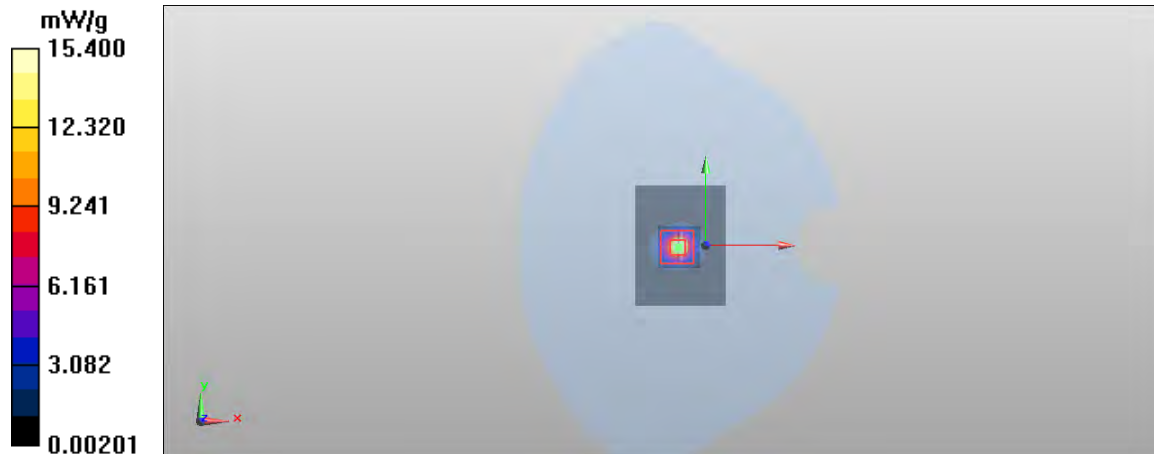
Peak SAR (extrapolated) = 31.357 mW/g

SAR(1 g) = 7.95 mW/g

SAR(10 g) = 2.25 mW/g

Power Drift = 0.22 dB

Maximum value of SAR (measured) = 15.4 mW/g



Date/Time: 2012-08-01 14:33:41

Test Laboratory: TCC Nokia

Type: D5GHzV2; Serial: D5GHzV2 - SN: 1032

Communication System: CW5500

Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5000; Medium Notes: t= 21.0 C

Medium parameters used: f = 5500 MHz; σ = 4.894 mho/m; ϵ_r = 34.634; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(4.6, 4.6, 4.6); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM1; Type: SAM; Serial: TP-1126
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=100mW/Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 17.1 mW/g

d=10mm, Pin=100mW/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 63.292 V/m

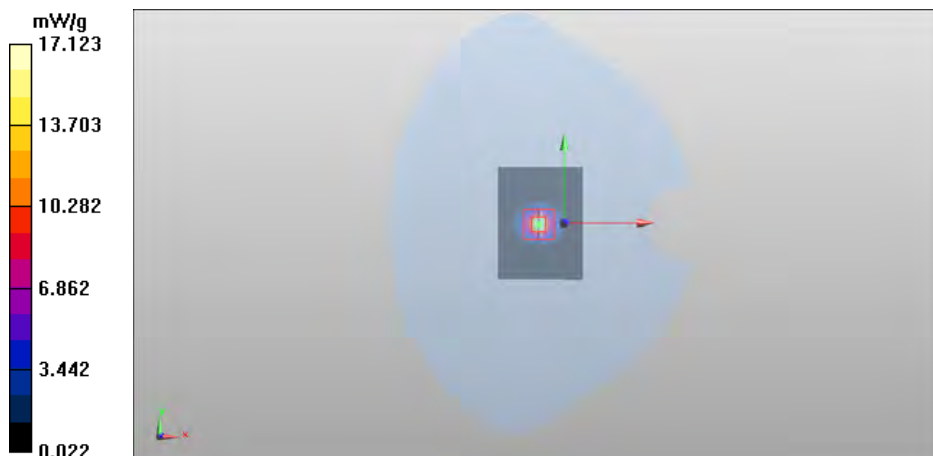
Peak SAR (extrapolated) = 35.237 mW/g

SAR(1 g) = 8.33 mW/g

SAR(10 g) = 2.33 mW/g

Power Drift = 0.09 dB

Maximum value of SAR (measured) = 16.0 mW/g



Date/Time: 2012-08-02 15:22:59

Test Laboratory: TCC Nokia

Type: D5GHzV2; Serial: D5GHzV2 - SN: 1032

Communication System: CW5500

Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5000; Medium Notes: $t = 21.4$ C

Medium parameters used: $f = 5500$ MHz; $\sigma = 4.731$ mho/m; $\epsilon_r = 34.468$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(4.6, 4.6, 4.6); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM1; Type: SAM; Serial: TP-1126
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=100mW/Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 16.8 mW/g

d=10mm, Pin=100mW/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 63.636 V/m

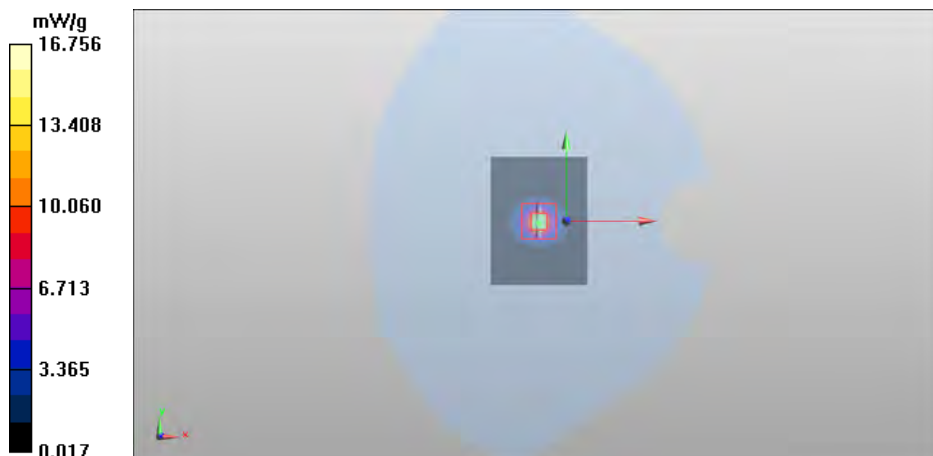
Peak SAR (extrapolated) = 34.274 mW/g

SAR(1 g) = 8.02 mW/g

SAR(10 g) = 2.25 mW/g

Power Drift = 0.06 dB

Maximum value of SAR (measured) = 16.0 mW/g



Date/Time: 2012-08-01 15:09:47

Test Laboratory: TCC Nokia

Type: D5GHzV2; Serial: D5GHzV2 - SN: 1032

Communication System: CW5800

Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: HSL5000; Medium Notes: $t = 21.0$ C

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.215$ mho/m; $\epsilon_r = 34.211$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(4.14, 4.14, 4.14); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM1; Type: SAM; Serial: TP-1126
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 17.2 mW/g

d=10mm, Pin=250mW/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.815 V/m

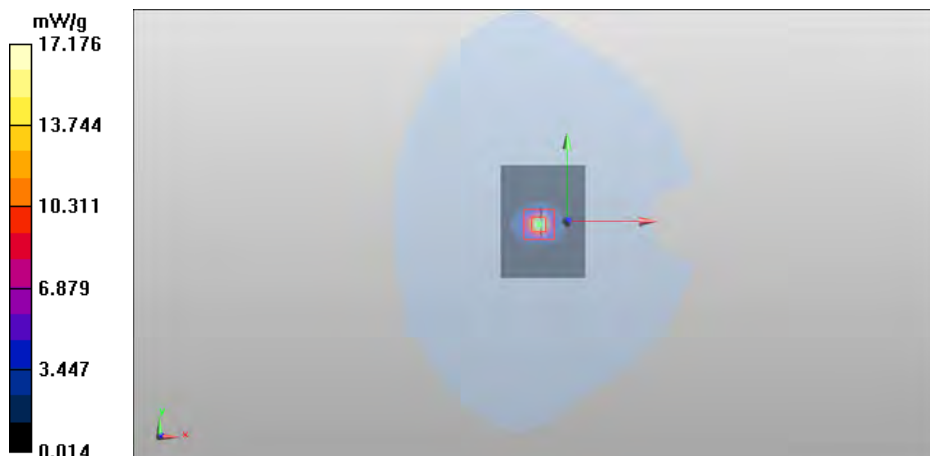
Peak SAR (extrapolated) = 35.585 mW/g

SAR(1 g) = 8.34 mW/g

SAR(10 g) = 2.33 mW/g

Power Drift = 0.19 dB

Maximum value of SAR (measured) = 16.3 mW/g



Date/Time: 2012-08-02 16:03:45

Test Laboratory: TCC Nokia

Type: D5GHzV2; Serial: D5GHzV2 - SN: 1032

Communication System: CW5800

Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: HSL5000; Medium Notes: $t = 21.4$ C

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.038$ mho/m; $\epsilon_r = 34.071$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(4.14, 4.14, 4.14); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM1; Type: SAM; Serial: TP-1126
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=100mW/Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 17.5 mW/g

d=10mm, Pin=100mW/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 63.956 V/m

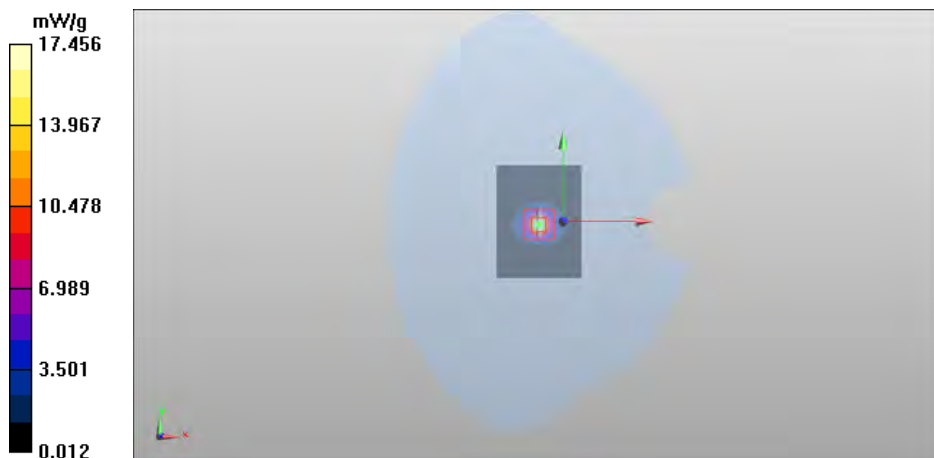
Peak SAR (extrapolated) = 34.887 mW/g

SAR(1 g) = 8.22 mW/g

SAR(10 g) = 2.31 mW/g

Power Drift = -0.05 dB

Maximum value of SAR (measured) = 16.3 mW/g



Date/Time: 2012-07-20 06:49:46

Test Laboratory: TCC Nokia
Type: D750V3; Serial: D750V3 - SN:1034

Communication System: CW750

Frequency: 750 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.992 \text{ mho/m}$; $\epsilon_r = 53.908$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.41 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.648 V/m

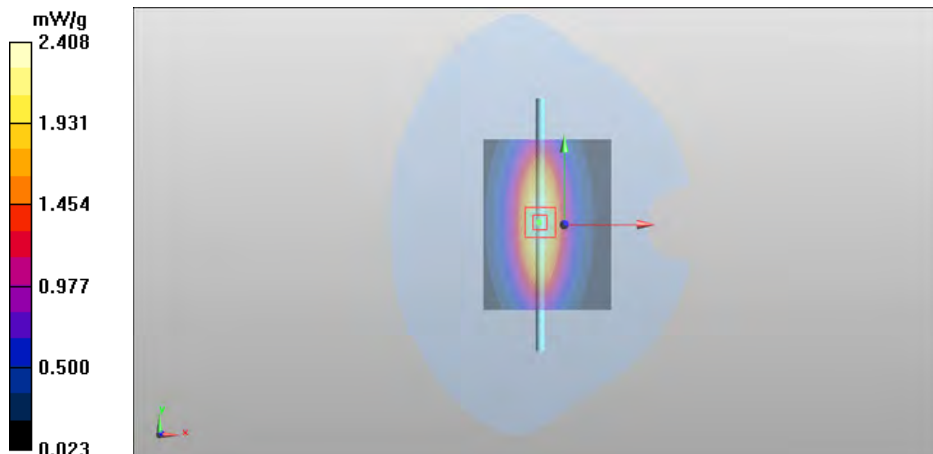
Peak SAR (extrapolated) = 3.227 mW/g

SAR(1 g) = 2.21 mW/g

SAR(10 g) = 1.46 mW/g

Power Drift = -0.13 dB

Maximum value of SAR (measured) = 2.39 mW/g



Date/Time: 2012-07-23 06:43:25

Test Laboratory: TCC Nokia
Type: D750V3; Serial: D750V3 - SN:1034

Communication System: CW750

Frequency: 750 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 20.9 C

Medium parameters used: f = 750 MHz; σ = 0.986 mho/m; ϵ_r = 53.803; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.33 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.810 V/m

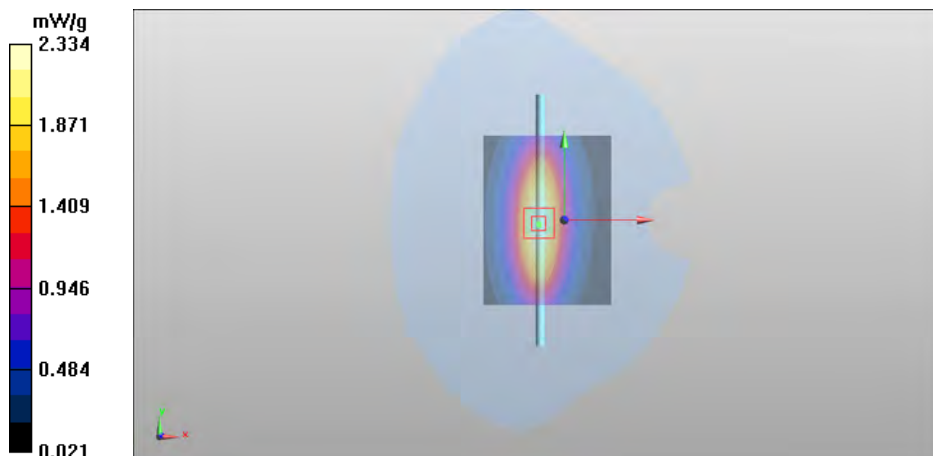
Peak SAR (extrapolated) = 3.190 mW/g

SAR(1 g) = 2.19 mW/g

SAR(10 g) = 1.45 mW/g

Power Drift = 0.02 dB

Maximum value of SAR (measured) = 2.37 mW/g



Date/Time: 2012-07-21 18:50:25

Test Laboratory: TCC Nokia

Type: D835V3; Serial: D835V3 - SN:487

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium Notes: T=20.3

Medium parameters used: $f = 835$ MHz; $\sigma = 1.001$ mho/m; $\epsilon_r = 55.971$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
- Phantom: SAM3; Type: SAM; Serial: TP-1399
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.59 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 52.957 V/m

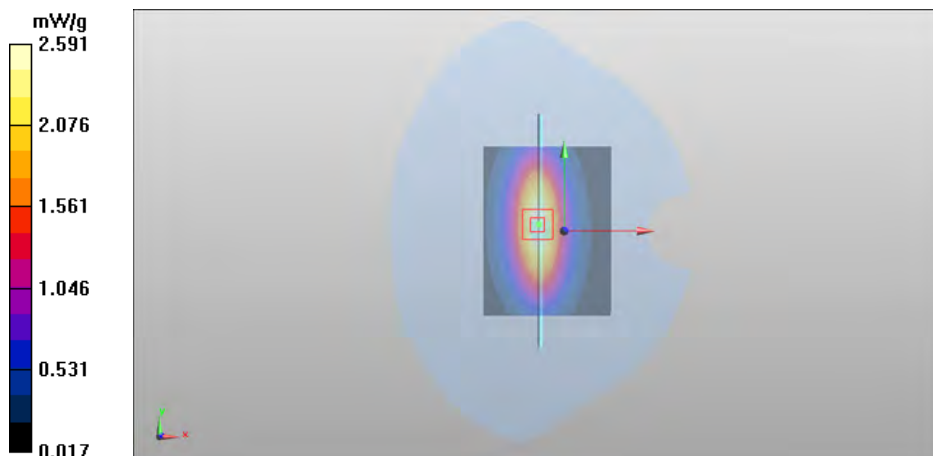
Peak SAR (extrapolated) = 3.394 mW/g

SAR(1 g) = 2.39 mW/g

SAR(10 g) = 1.59 mW/g

Power Drift = -0.00 dB

Maximum value of SAR (measured) = 2.60 mW/g



Date/Time: 2012-07-23 09:55:11

Test Laboratory: TCC Nokia

Type: D835V3; Serial: D835V3 - SN:487

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium Notes: T=20.6

Medium parameters used: $f = 835$ MHz; $\sigma = 0.963$ mho/m; $\epsilon_r = 55.967$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
- Phantom: SAM3; Type: SAM; Serial: TP-1399
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.54 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7) 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.762 V/m

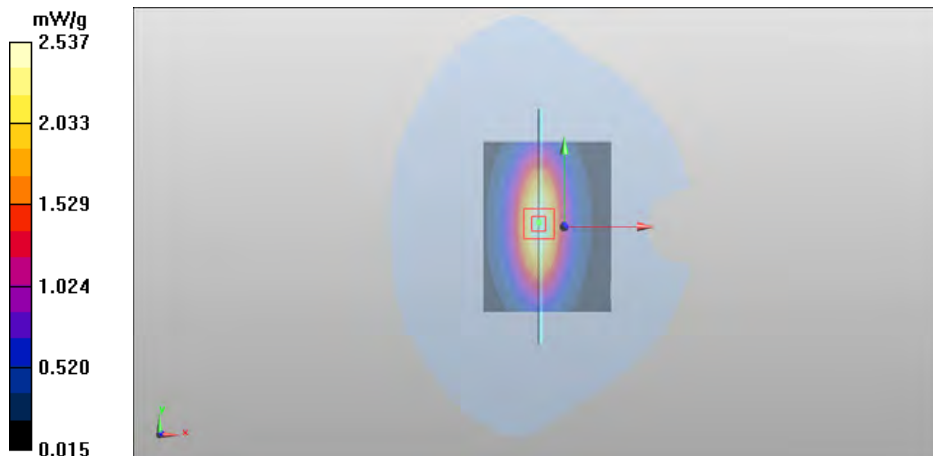
Peak SAR (extrapolated) = 3.326 mW/g

SAR(1 g) = 2.35 mW/g

SAR(10 g) = 1.56 mW/g

Power Drift = -0.03 dB

Maximum value of SAR (measured) = 2.54 mW/g



Date/Time: 2012-07-25 18:33:36

Test Laboratory: TCC Nokia
Type: D835V2; Serial: D835V2 - SN:487

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M900; Medium Notes: T=20.6

Medium parameters used: $f = 835$ MHz; $\sigma = 0.978$ mho/m; $\epsilon_r = 55.206$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
- Phantom: SAM3; Type: SAM; Serial: TP-1399
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

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 = 54.060 V/m

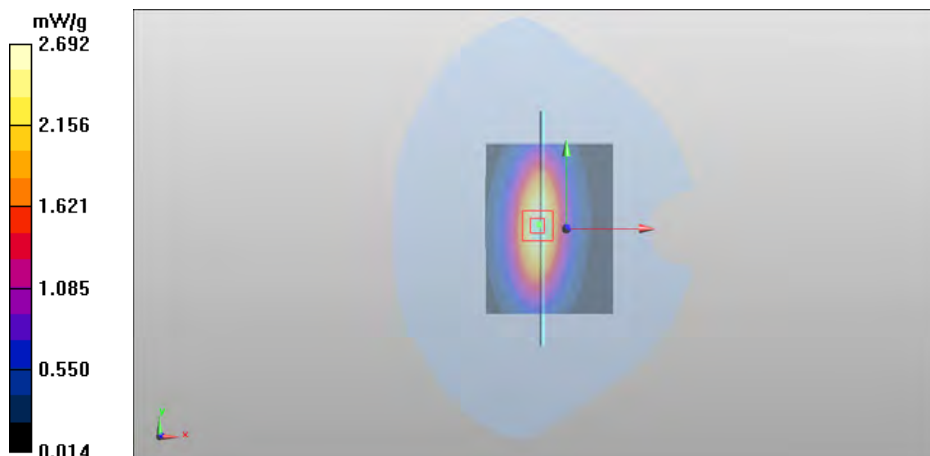
Peak SAR (extrapolated) = 3.560 mW/g

SAR(1 g) = 2.5 mW/g

SAR(10 g) = 1.66 mW/g

Power Drift = -0.01 dB

Maximum value of SAR (measured) = 2.71 mW/g



Date/Time: 2012-07-28 13:05:08

Test Laboratory: TCC Nokia
Type: D835V2; Serial: D835V2 - SN:487

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M900; Medium Notes: T=19.8

Medium parameters used: $f = 835$ MHz; $\sigma = 1.001$ mho/m; $\epsilon_r = 55.681$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
- Phantom: SAM3; Type: SAM; Serial: TP-1399
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.60 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 52.654 V/m

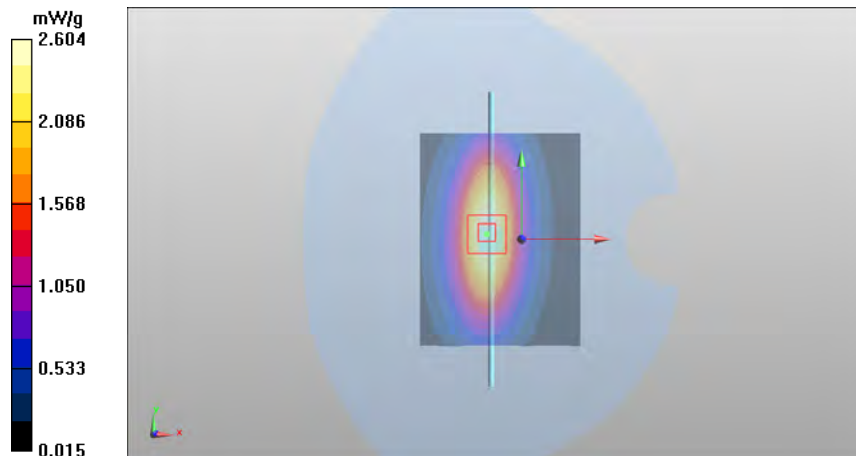
Peak SAR (extrapolated) = 3.421 mW/g

SAR(1 g) = 2.41 mW/g

SAR(10 g) = 1.6 mW/g

Power Drift = 0.01 dB

Maximum value of SAR (measured) = 2.61 mW/g



Date/Time: 2012-07-29 16:36:51

Test Laboratory: TCC Nokia

Type: D835V2; Serial: D835V2 - SN:462

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: BSL850; Medium Notes: t= 21.0 C

Medium parameters used: f = 835 MHz; σ = 1.007 mho/m; ϵ_r = 53.651; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.92, 5.92, 5.92); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.53 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.966 V/m

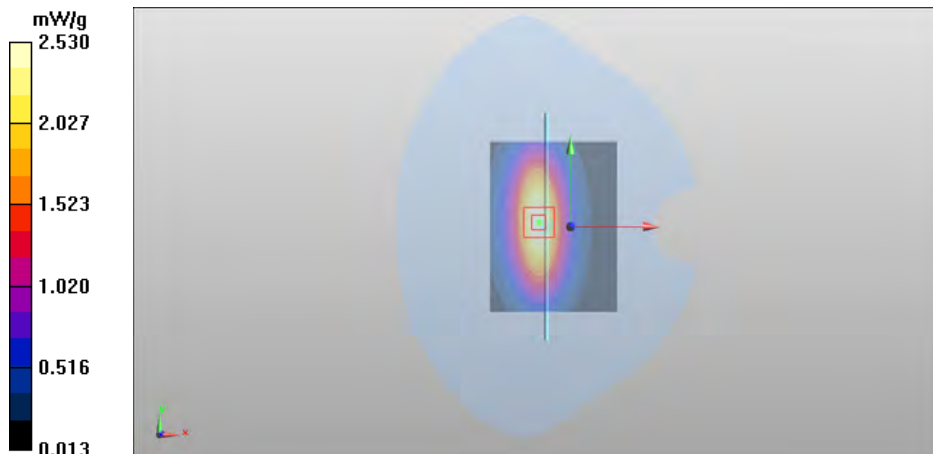
Peak SAR (extrapolated) = 3.357 mW/g

SAR(1 g) = 2.35 mW/g

SAR(10 g) = 1.56 mW/g

Power Drift = -0.04 dB

Maximum value of SAR (measured) = 2.55 mW/g



Date/Time: 2012-07-18 18:14:55

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 – SN:5d099

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes:

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.575$ mho/m; $\epsilon_r = 52.926$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2011-07-21
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250mW /Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.9 mW/g

d=10mm, Pin=250mW /Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.897 V/m

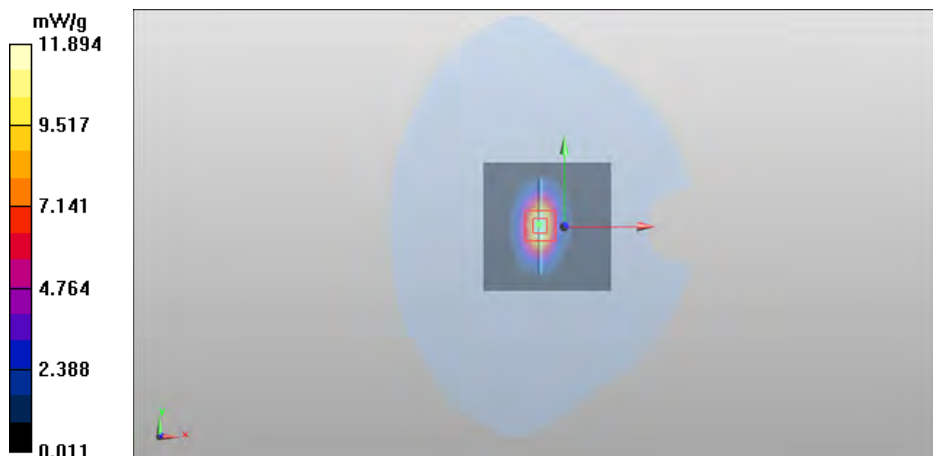
Peak SAR (extrapolated) = 16.899 mW/g

SAR(1 g) = 10.1 mW/g

SAR(10 g) = 5.44 mW/g

Power Drift = -0.01 dB

Maximum value of SAR (measured) = 11.5 mW/g



Date/Time: 2012-07-20 09:23:29

Test Laboratory: TCC Nokia
Type: D1900V2; Serial: D1900V2 - SN:5d099

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes:

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 52.558$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2011-07-21
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250mW /Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.8 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.331 V/m

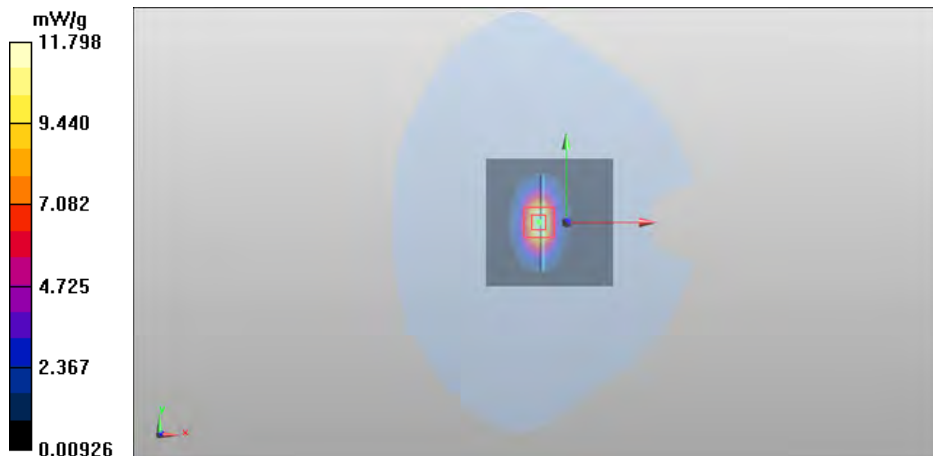
Peak SAR (extrapolated) = 16.332 mW/g

SAR(1 g) = 9.81 mW/g

SAR(10 g) = 5.25 mW/g

Power Drift = -0.13 dB

Maximum value of SAR (measured) = 11.2 mW/g



Date/Time: 2012-07-23 09:01:40

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN5d099

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: 22.3

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.524$ mho/m; $\epsilon_r = 52.199$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250mW /Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.5 mW/g

d=10mm, Pin=250mW / Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.233 V/m

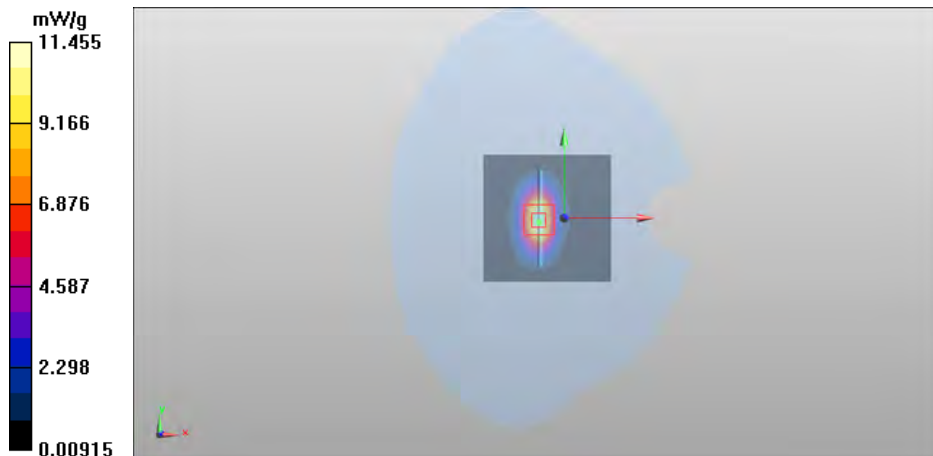
Peak SAR (extrapolated) = 16.084 mW/g

SAR(1 g) = 9.62 mW/g

SAR(10 g) = 5.15 mW/g

Power Drift = -0.05 dB

Maximum value of SAR (measured) = 10.8 mW/g



Date/Time: 2012-07-27 20:47:18

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN:5d099

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=21.7

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.595$ mho/m; $\epsilon_r = 52.012$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.7 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.766 V/m

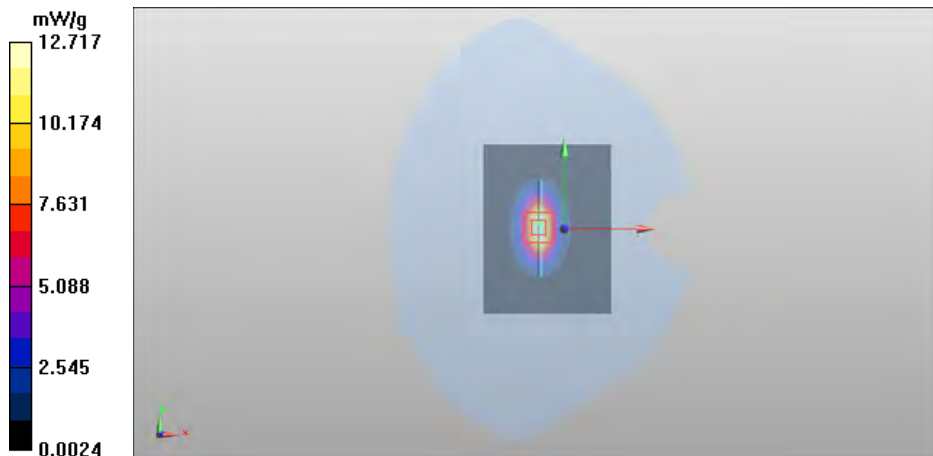
Peak SAR (extrapolated) = 17.136 mW/g

SAR(1 g) = 10.3 mW/g

SAR(10 g) = 5.48 mW/g

Power Drift = -0.01 dB

Maximum value of SAR (measured) = 11.6 mW/g



Date/Time: 2012-07-30 08:41:43

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN5d099

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.2

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.598$ mho/m; $\epsilon_r = 51.74$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250mW /Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 13.2 mW/g

d=10mm, Pin=250mW /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.894 V/m

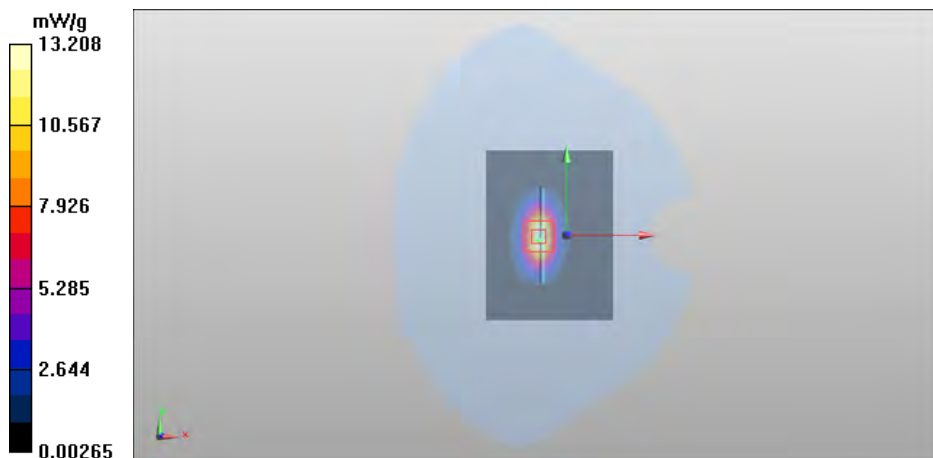
Peak SAR (extrapolated) = 17.458 mW/g

SAR(1 g) = 10.5 mW/g

SAR(10 g) = 5.62 mW/g

Power Drift = -0.00 dB

Maximum value of SAR (measured) = 11.9 mW/g



Date/Time: 2012-08-31 09:54:01

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN5d099

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=21.8

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.561$ mho/m; $\epsilon_r = 51.807$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(4.47, 4.47, 4.47); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2012-08-15
- Phantom: SAM3; Type: QD000P40CD; Serial: TP: 1729
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.8 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 92.175 V/m

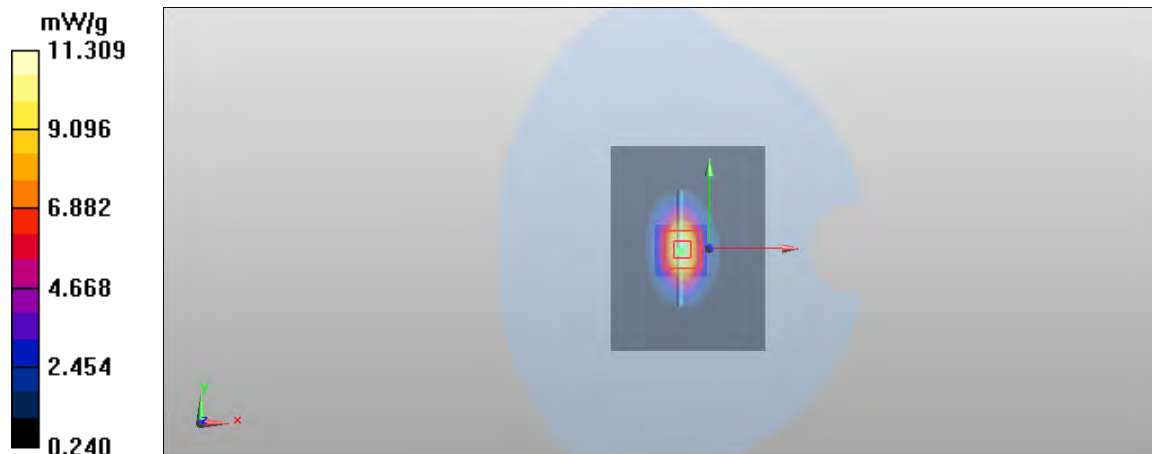
Peak SAR (extrapolated) = 16.224 mW/g

SAR(1 g) = 9.94 mW/g

SAR(10 g) = 5.33 mW/g

Power Drift = 0.02 dB

Maximum value of SAR (measured) = 11.3 mW/g



Date/Time: 2012-07-20 09:09:13

Test Laboratory: TCC Nokia

Type: D2450V2; Serial: D2450V2 - SN:729

Communication System: CW2450

Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: BSL 2450; Medium Notes: $t = 21.0$ C

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 51.138$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 16.9 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 83.168 V/m

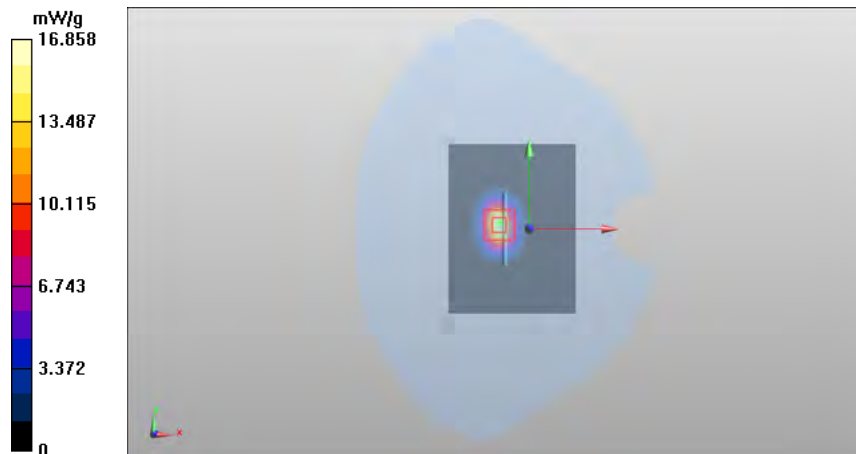
Peak SAR (extrapolated) = 27.831 mW/g

SAR(1 g) = 13.9 mW/g

SAR(10 g) = 6.46 mW/g

Power Drift = -0.01 dB

Maximum value of SAR (measured) = 15.8 mW/g



Date/Time: 2012-07-23 07:37:48

Test Laboratory: TCC Nokia

Type: D2450V2; Serial: D2450V2 - SN:729

Communication System: CW2450

Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: BSL 2450; Medium Notes: $t = 20.9$ C

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.946$ mho/m; $\epsilon_r = 51.19$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 16.8 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 78.786 V/m

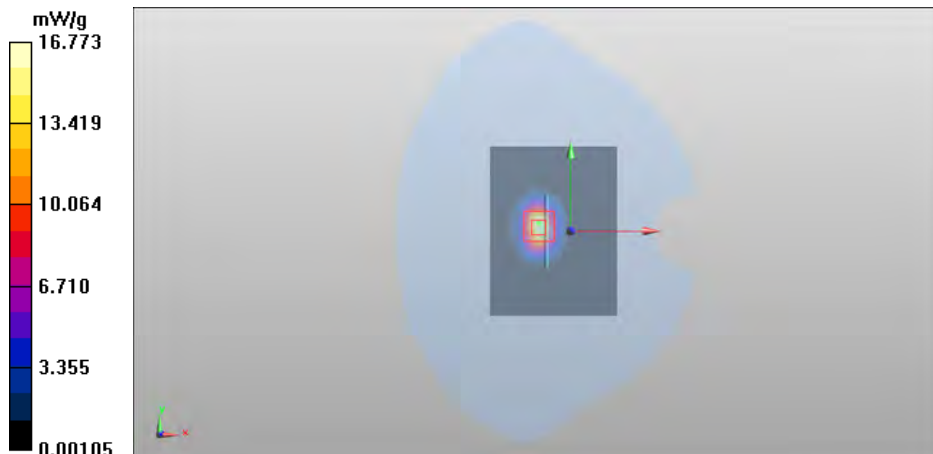
Peak SAR (extrapolated) = 27.376 mW/g

SAR(1 g) = 13.7 mW/g

SAR(10 g) = 6.37 mW/g

Power Drift = 0.00 dB

Maximum value of SAR (measured) = 15.7 mW/g



Date/Time: 2012-08-02 23:29:25

Test Laboratory: TCC Nokia

Type: D5GHzV2; Serial: D5GHzV2 - SN: 1032

Communication System: CW5200

Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: BSL5200; Medium Notes: 20.8 C

Medium parameters used: $f = 5200$ MHz; $\sigma = 5.465$ mho/m; $\epsilon_r = 48.71$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(3.99, 3.99, 3.99); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM2; Type: SAM; Serial: TP-1570
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=100mW/Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 16.1 mW/g

d=10mm, Pin=100mW /Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 59.723 V/m

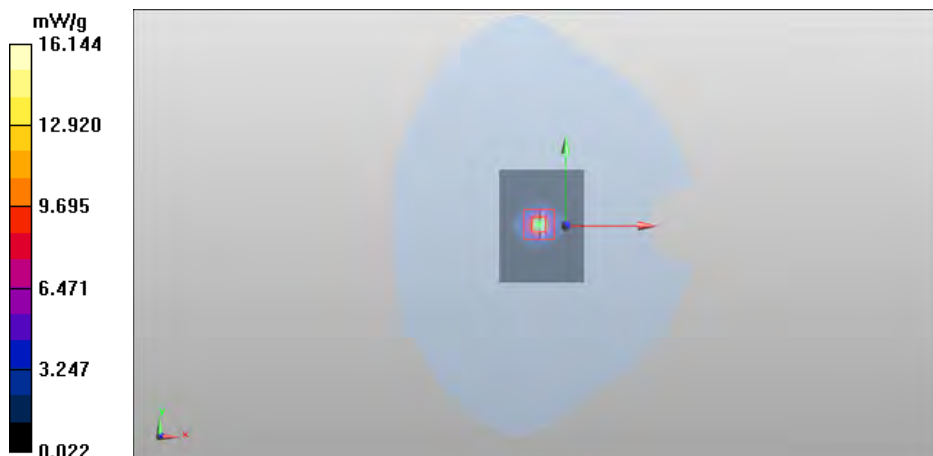
Peak SAR (extrapolated) = 30.389 mW/g

SAR(1 g) = 7.94 mW/g

SAR(10 g) = 2.2 mW/g

Power Drift = 0.13 dB

Maximum value of SAR (measured) = 15.2 mW/g



Date/Time: 2012-08-03 13:31:03

Test Laboratory: TCC Nokia

Type: D5GHzV2; Serial: D5GHzV2 - SN: 1032

Communication System: CW5500

Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: BSL5000; Medium Notes: $t = 21.4$ C

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.842$ mho/m; $\epsilon_r = 47.952$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(3.5, 3.5, 3.5); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM2; Type: SAM; Serial: TP-1570
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=100mW /Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 17.7 mW/g

d=10mm, Pin=100mW /Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 61.239 V/m

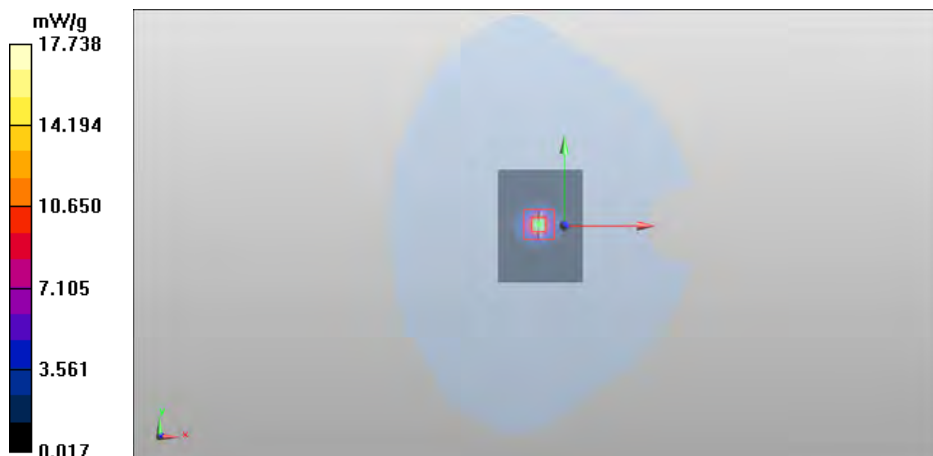
Peak SAR (extrapolated) = 33.955 mW/g

SAR(1 g) = 8.44 mW/g

SAR(10 g) = 2.31 mW/g

Power Drift = 0.10 dB

Maximum value of SAR (measured) = 16.7 mW/g



Date/Time: 2012-08-06 08:14:34

Test Laboratory: TCC Nokia

Type: D5GHzV2; Serial: D5GHzV2 - SN: 1032

Communication System: CW5500

Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: BSL5500; Medium Notes: $t = 21.4$ C

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.837$ mho/m; $\epsilon_r = 48.46$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(3.5, 3.5, 3.5); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM2; Type: SAM; Serial: TP-1570
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=100mW /Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 17.8 mW/g

d=10mm, Pin=100mW /Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 62.017 V/m

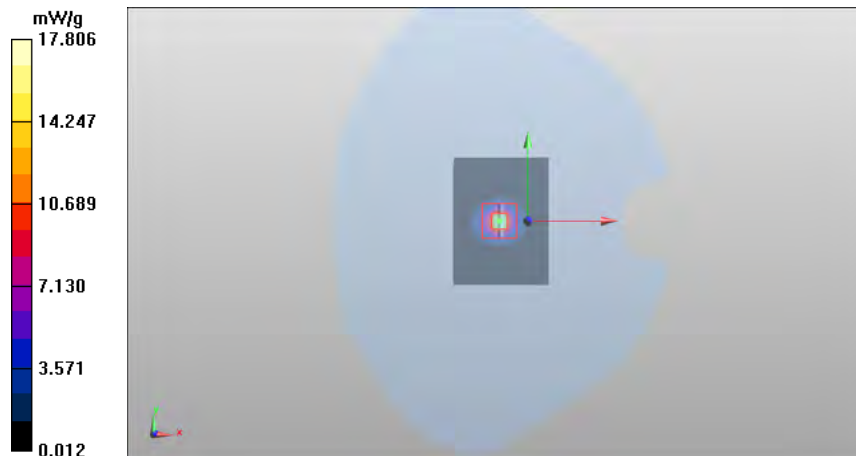
Peak SAR (extrapolated) = 32.929 mW/g

SAR(1 g) = 8.31 mW/g

SAR(10 g) = 2.27 mW/g

Power Drift = 0.15 dB

Maximum value of SAR (measured) = 16.7 mW/g



Date/Time: 2012-08-03 14:19:49

Test Laboratory: TCC Nokia

Type: D5GHzV2; Serial: D5GHzV2 - SN: 1032

Communication System: CW5800

Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: BSL5000; Medium Notes: $t = 21.4$ C

Medium parameters used: $f = 5800$ MHz; $\sigma = 6.263$ mho/m; $\epsilon_r = 47.467$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(3.78, 3.78, 3.78); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM2; Type: SAM; Serial: TP-1570
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=100mW/Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 15.6 mW/g

d=10mm, Pin=100mW/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 53.813 V/m

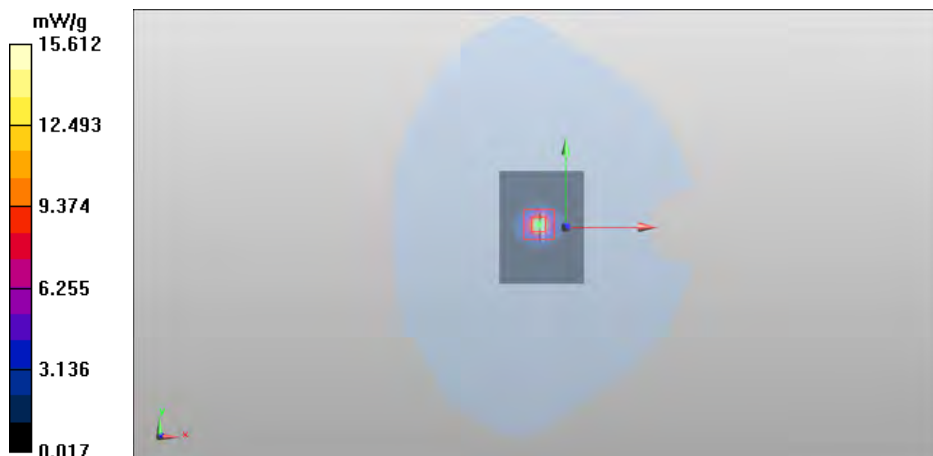
Peak SAR (extrapolated) = 30.807 mW/g

SAR(1 g) = 7.3 mW/g

SAR(10 g) = 2.01 mW/g

Power Drift = 0.20 dB

Maximum value of SAR (measured) = 14.5 mW/g



Date/Time: 2012-08-05 08:57:55

Test Laboratory: TCC Nokia

Type: D5GHzV2; Serial: D5GHzV2 - SN: 1032

Communication System: CW5800

Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: BSL5000; Medium Notes: $t = 21.4$ C

Medium parameters used: $f = 5800$ MHz; $\sigma = 6.27$ mho/m; $\epsilon_r = 48.543$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(3.78, 3.78, 3.78); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM2; Type: SAM; Serial: TP-1570
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

d=10mm, Pin=100mW/Area Scan (61x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 15.6 mW/g

d=10mm, Pin=100mW/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.379 V/m

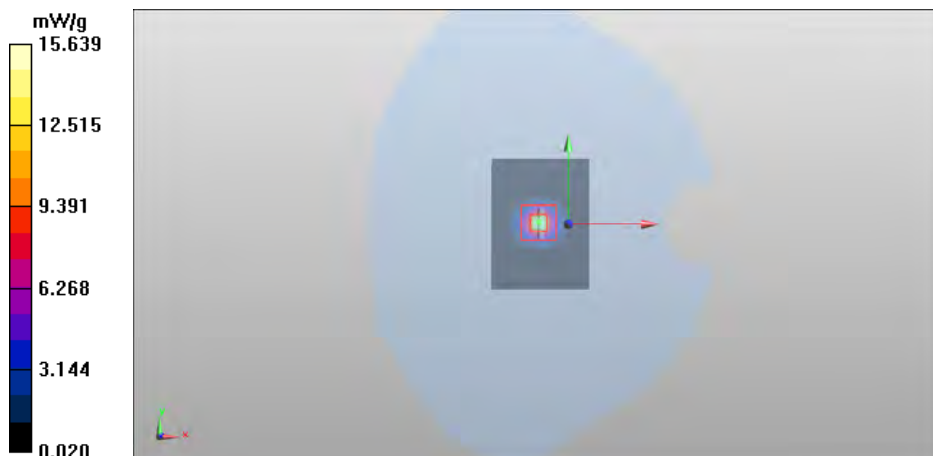
Peak SAR (extrapolated) = 29.516 mW/g

SAR(1 g) = 7.11 mW/g

SAR(10 g) = 1.96 mW/g

Power Drift = 0.06 dB

Maximum value of SAR (measured) = 14.5 mW/g



APPENDIX B.1: HEAD MEASUREMENT SCANS

Date/Time: 2012-07-18 10:27:37

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 0.932 mho/m; ϵ_r = 40.335; ρ = 1000 kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Cheek - Middle - QPSK - 10MHz - 100% RB/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.312 mW/g

LTE - Left/Cheek - Middle - QPSK - 10MHz - 100% RB/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.382 V/m

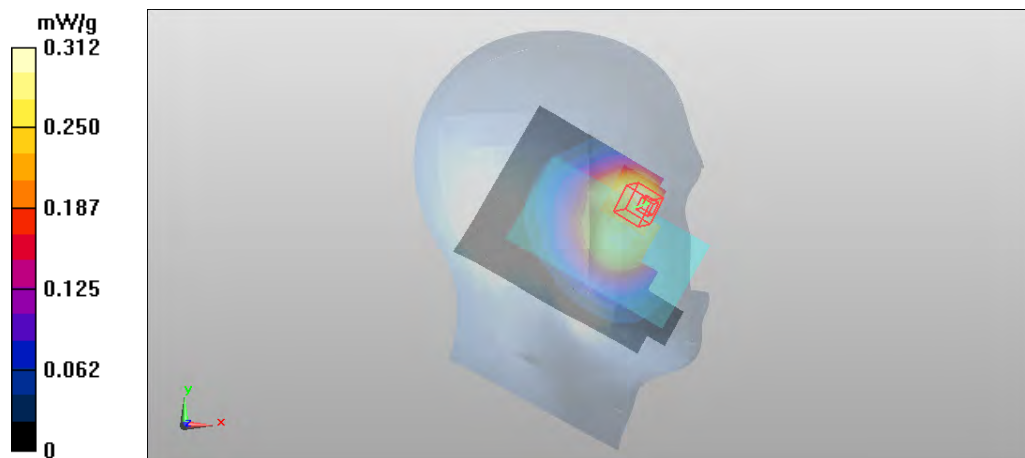
Peak SAR (extrapolated) = 0.408 mW/g

SAR(1 g) = 0.292 mW/g

SAR(10 g) = 0.205 mW/g

Power Drift = 0.05 dB

Maximum value of SAR (measured) = 0.311 mW/g



Date/Time: 2012-07-19 08:50:40

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 0.932 mho/m; ϵ_r = 40.425; ρ = 1000 kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Tilt - Middle - QPSK - 10MHz - 100% RB/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.176 mW/g

LTE - Left/Tilt - Middle - QPSK - 10MHz - 100% RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.856 V/m

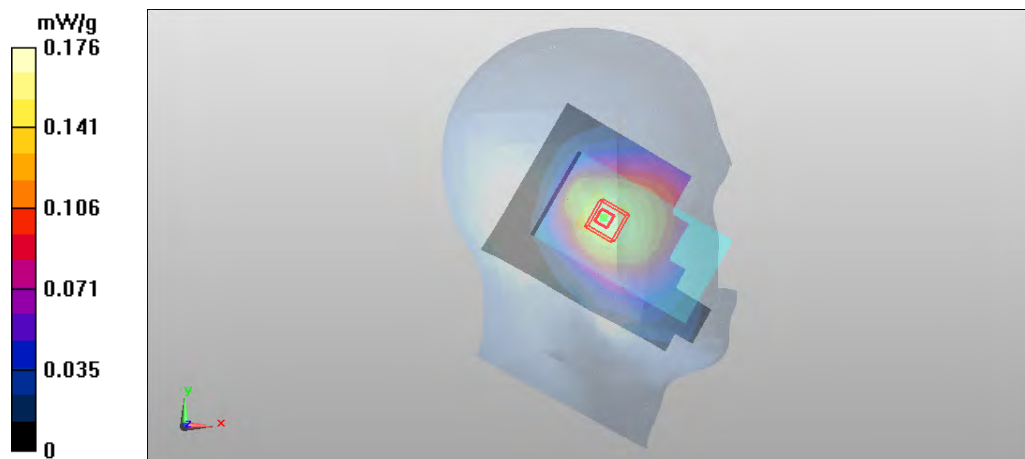
Peak SAR (extrapolated) = 0.216 mW/g

SAR(1 g) = 0.167 mW/g

SAR(10 g) = 0.124 mW/g

Power Drift = -0.02 dB

Maximum value of SAR (measured) = 0.177 mW/g



Date/Time: 2012-07-19 14:10:14

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.932 \text{ mho/m}$; $\epsilon_r = 40.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP;
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 100% RB/Area Scan (81x121x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.497 mW/g

LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 100% RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.784 V/m

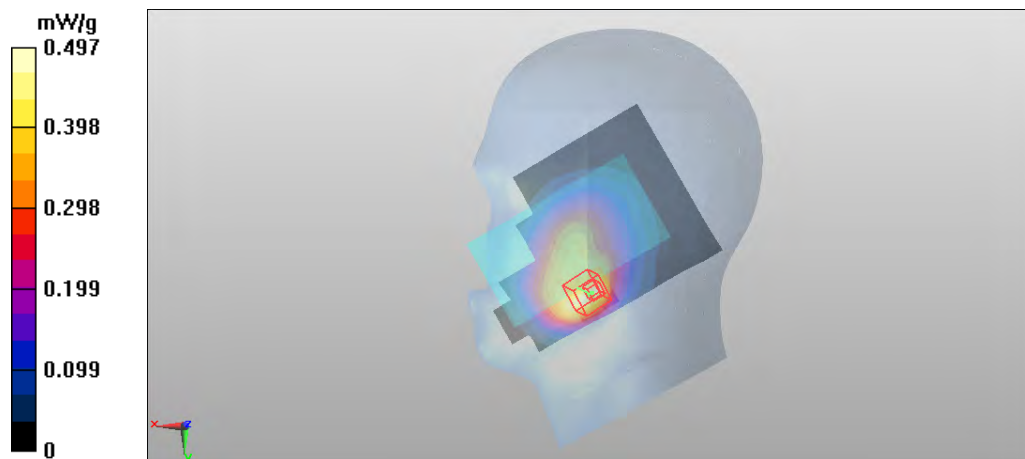
Peak SAR (extrapolated) = 0.750 mW/g

SAR(1 g) = 0.489 mW/g

SAR(10 g) = 0.316 mW/g

Power Drift = 0.25 dB

Maximum value of SAR (measured) = 0.538 mW/g



Date/Time: 2012-07-19 18:20:41

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.932 \text{ mho/m}$; $\epsilon_r = 40.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Tilt - Right - Middle - QPSK - 10MHz - 100% RB/Area Scan (81x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.211 mW/g

LTE - Right/Tilt - Right - Middle - QPSK - 10MHz - 100% RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.134 V/m

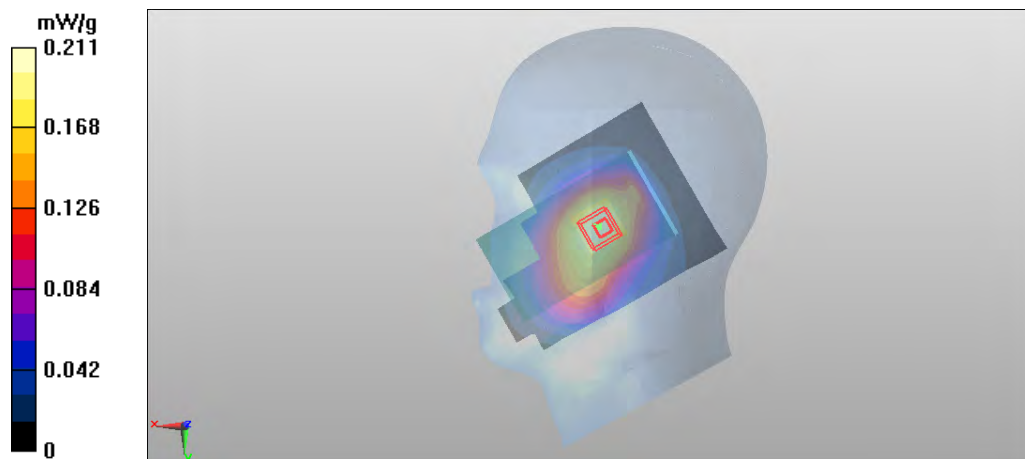
Peak SAR (extrapolated) = 0.249 mW/g

SAR(1 g) = 0.197 mW/g

SAR(10 g) = 0.148 mW/g

Power Drift = 0.04 dB

Maximum value of SAR (measured) = 0.205 mW/g



Date/Time: 2012-07-18 10:52:21

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.335$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Cheek - Middle - QPSK - 10MHz – 50% RB - 50% offset/Area Scan (81x121x1): Measurement grid:

dx=15mm, dy=15mm

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

LTE - Left/Cheek - Middle - QPSK - 10MHz – 50% RB - 50% offset/Zoom Scan (6x6x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.605 V/m

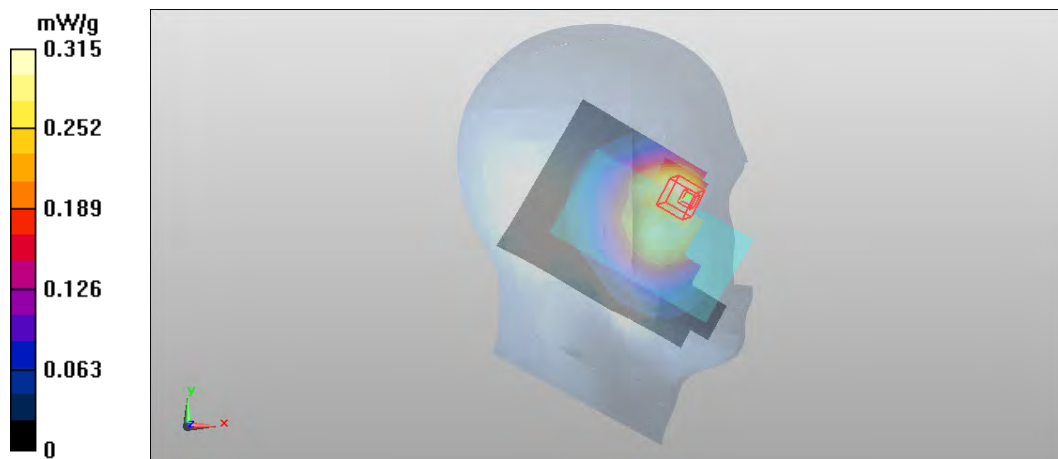
Peak SAR (extrapolated) = 0.428 mW/g

SAR(1 g) = 0.309 mW/g

SAR(10 g) = 0.219 mW/g

Power Drift = 0.32 dB

Maximum value of SAR (measured) = 0.328 mW/g



Date/Time: 2012-07-19 10:03:45

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Tilt - Middle - QPSK - 10MHz - 50% RB - 50% offset/Area Scan (81x121x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.148 mW/g

LTE - Left/Tilt - Middle - QPSK - 10MHz - 50% RB - 50% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.146 V/m

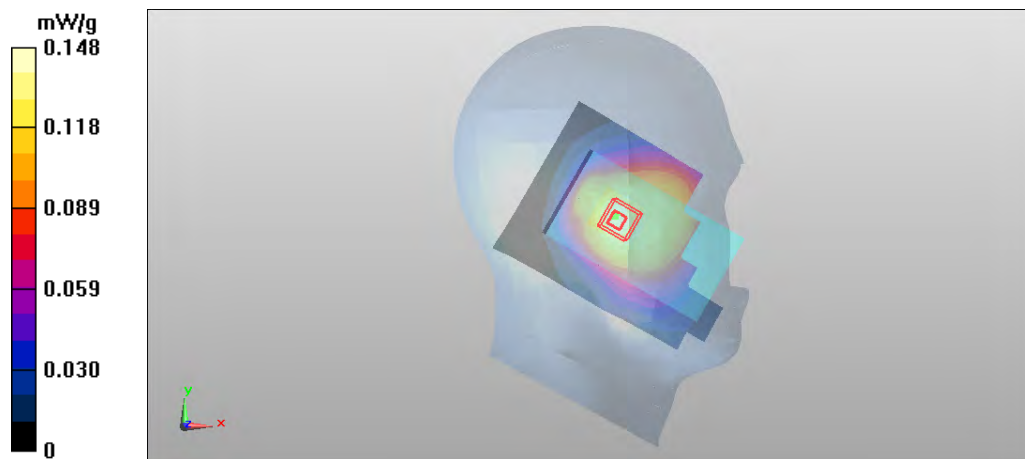
Peak SAR (extrapolated) = 0.176 mW/g

SAR(1 g) = 0.137 mW/g

SAR(10 g) = 0.102 mW/g

Power Drift = -0.10 dB

Maximum value of SAR (measured) = 0.144 mW/g



Date/Time: 2012-07-19 14:30:34

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 50% RB - 50% offset/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.526 mW/g

LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 50% RB - 50% offset/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.226 V/m

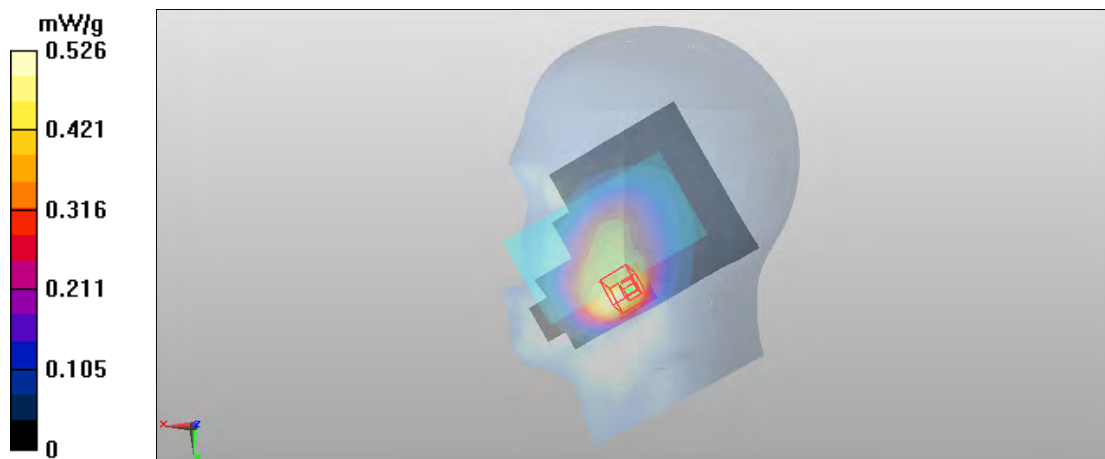
Peak SAR (extrapolated) = 0.804 mW/g

SAR(1 g) = 0.519 mW/g

SAR(10 g) = 0.335 mW/g

Power Drift = -0.11 dB

Maximum value of SAR (measured) = 0.574 mW/g



Date/Time: 2012-07-19 18:44:53

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Tilt - Right - Middle - QPSK - 10MHz - 50% RB - 50% offset/Area Scan (81x121x1): Measurement

grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.217 mW/g

LTE - Right/Tilt - Right - Middle - QPSK - 10MHz - 50% RB - 50% offset/Zoom Scan (5x5x7)/Cube 0: Measurement

grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.418 V/m

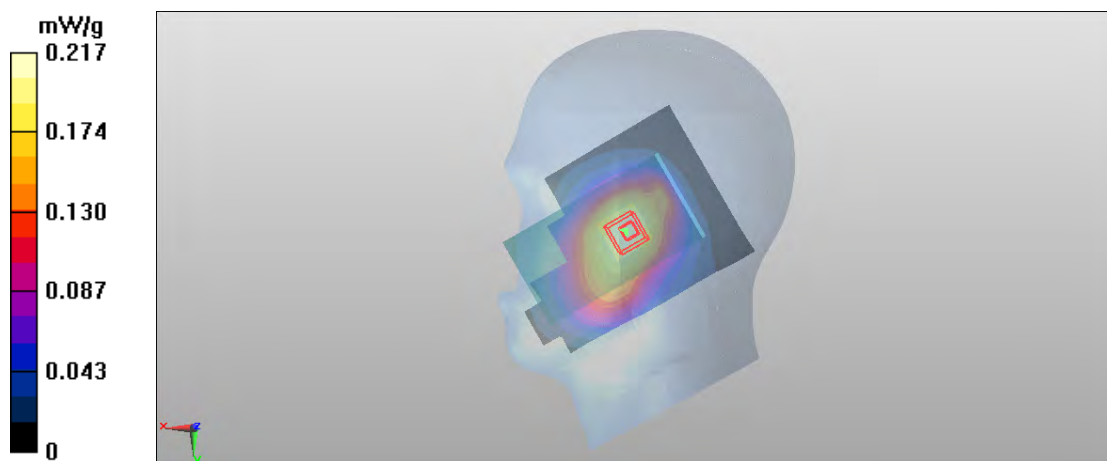
Peak SAR (extrapolated) = 0.260 mW/g

SAR(1 g) = 0.208 mW/g

SAR(10 g) = 0.156 mW/g

Power Drift = 0.04 dB

Maximum value of SAR (measured) = 0.217 mW/g



Date/Time: 2012-07-18 11:36:10

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.335$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan (81x121x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.380 mW/g

LTE - Left/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset/Zoom Scan (6x6x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.610 V/m

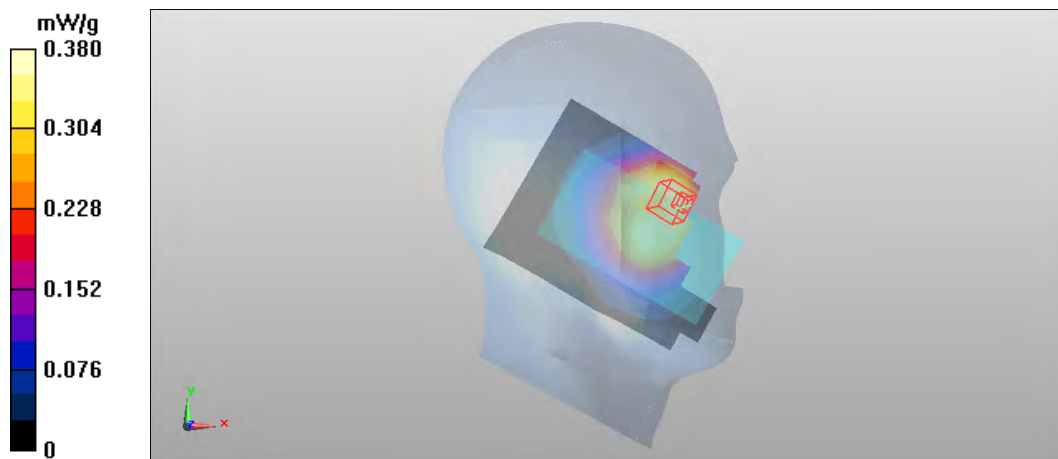
Peak SAR (extrapolated) = 0.552 mW/g

SAR(1 g) = 0.374 mW/g

SAR(10 g) = 0.264 mW/g

Power Drift = 0.04 dB

Maximum value of SAR (measured) = 0.401 mW/g



Date/Time: 2012-07-19 10:23:43

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.932 \text{ mho/m}$; $\epsilon_r = 40.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Tilt - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan (81x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.176 mW/g

LTE - Left/Tilt - Middle - QPSK - 10MHz - 1 RB - 50% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.933 V/m

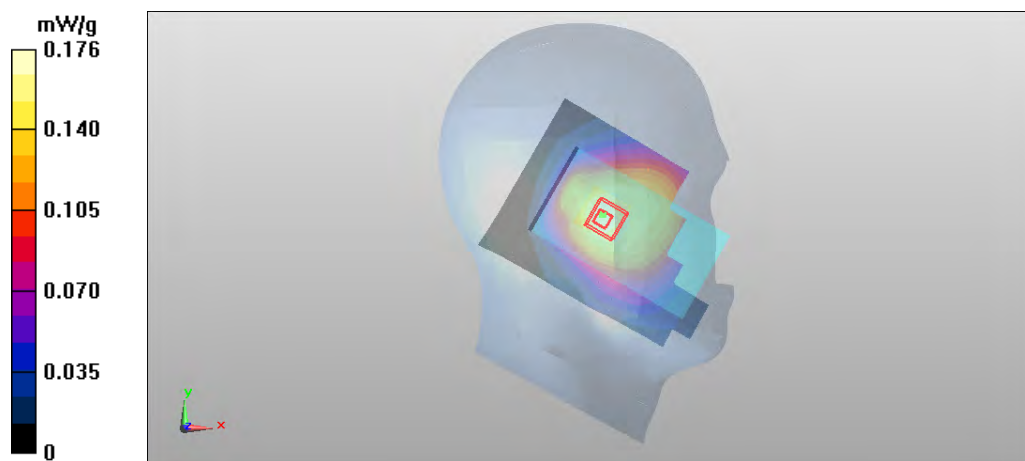
Peak SAR (extrapolated) = 0.214 mW/g

SAR(1 g) = 0.166 mW/g

SAR(10 g) = 0.124 mW/g

Power Drift = 0.00 dB

Maximum value of SAR (measured) = 0.174 mW/g



Date/Time: 2012-07-19 15:19:58

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.932 \text{ mho/m}$; $\epsilon_r = 40.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan (81x121x1): Measurement grid:
dx=15mm, dy=15mm

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

LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 1 RB - 50% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.055 V/m

Peak SAR (extrapolated) = 0.970 mW/g

SAR(1 g) = 0.627 mW/g

SAR(10 g) = 0.406 mW/g

Power Drift = 0.04 dB

Maximum value of SAR (measured) = 0.687 mW/g



Date/Time: 2012-07-19 19:28:33

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Tilt - Right - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan (81x121x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.263 mW/g

LTE - Right/Tilt - Right - Middle - QPSK - 10MHz - 1 RB - 50% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid:
dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.598 V/m

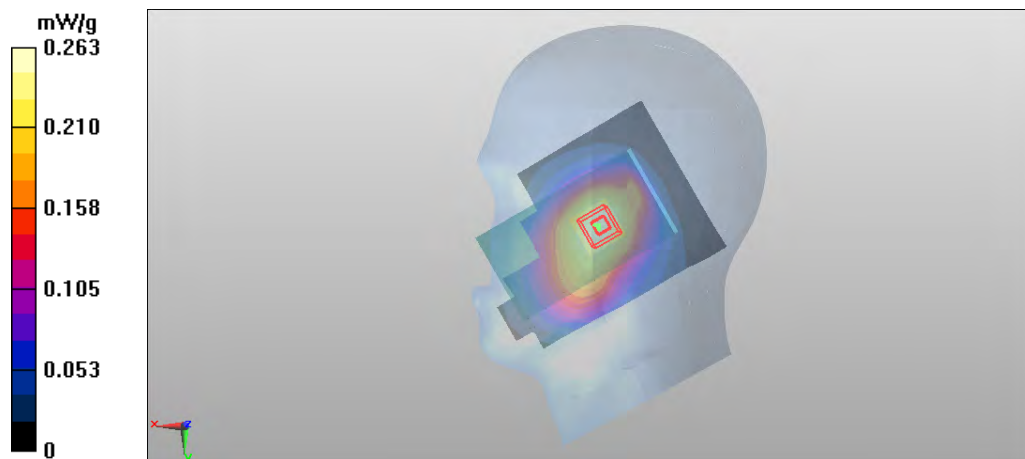
Peak SAR (extrapolated) = 0.313 mW/g

SAR(1 g) = 0.250 mW/g

SAR(10 g) = 0.189 mW/g

Power Drift = -0.00 dB

Maximum value of SAR (measured) = 0.262 mW/g



Date/Time: 2012-07-18 11:59:27

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.335$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Cheek - Middle - QPSK - 10MHz - 1 RB - 100% offset/Area Scan (81x121x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.282 mW/g

LTE - Left/Cheek - Middle - QPSK - 10MHz - 1 RB - 100% offset/Zoom Scan (6x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.460 V/m

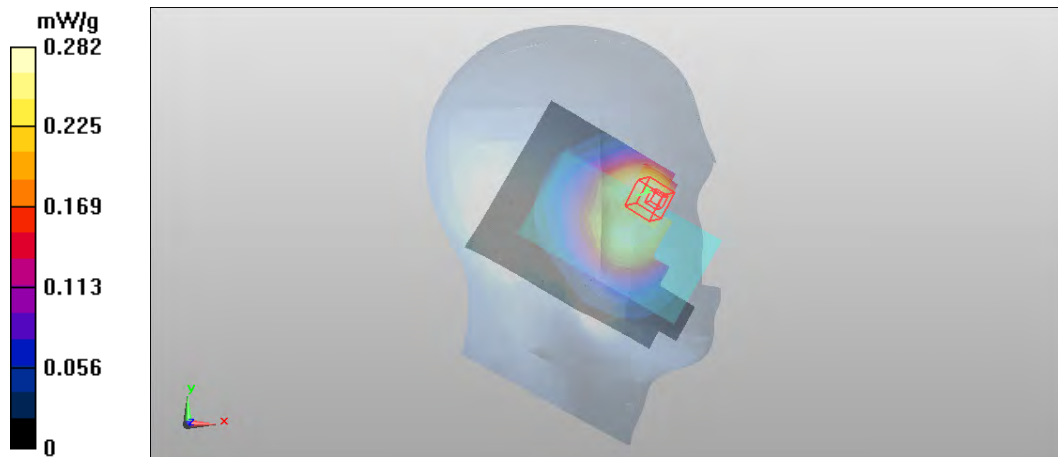
Peak SAR (extrapolated) = 0.364 mW/g

SAR(1 g) = 0.266 mW/g

SAR(10 g) = 0.189 mW/g

Power Drift = -0.08 dB

Maximum value of SAR (measured) = 0.282 mW/g



Date/Time: 2012-07-19 10:47:29

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Tilt - Middle - QPSK - 10MHz - 1 RB - 100% offset/Area Scan (81x121x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.126 mW/g

LTE - Left/Tilt - Middle - QPSK - 10MHz - 1 RB - 100% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.414 V/m

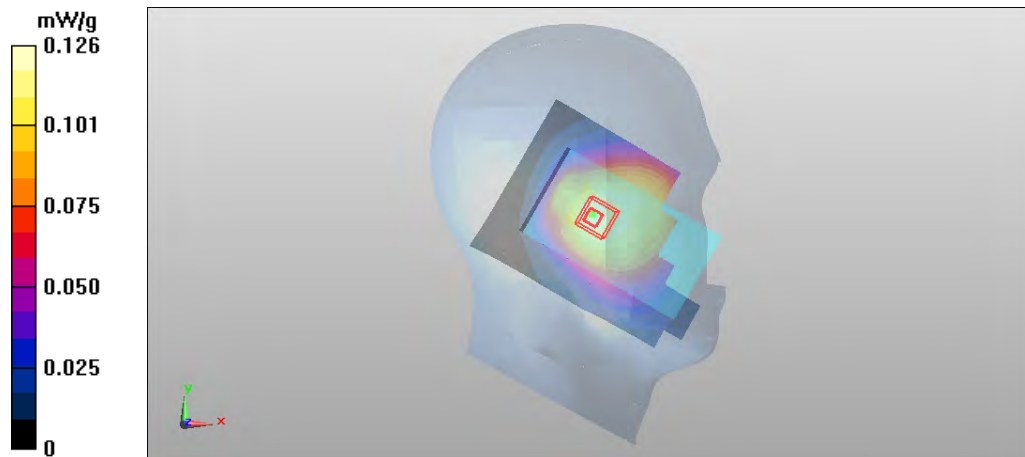
Peak SAR (extrapolated) = 0.150 mW/g

SAR(1 g) = 0.116 mW/g

SAR(10 g) = 0.087 mW/g

Power Drift = -0.16 dB

Maximum value of SAR (measured) = 0.122 mW/g



Date/Time: 2012-07-19 14:58:37

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 1 RB - 100% offset/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.479 mW/g

LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 1 RB - 100% offset/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.841 V/m

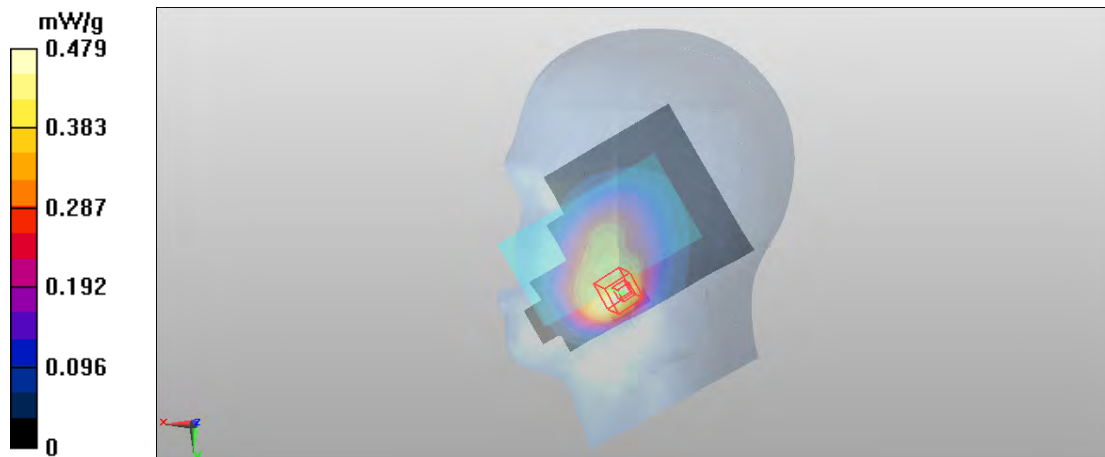
Peak SAR (extrapolated) = 0.725 mW/g

SAR(1 g) = 0.468 mW/g

SAR(10 g) = 0.303 mW/g

Power Drift = -0.11 dB

Maximum value of SAR (measured) = 0.509 mW/g



Date/Time: 2012-07-19 19:08:03

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Tilt - Right - Middle - QPSK - 10MHz - 1 RB - 100% offset/Area Scan (81x121x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.199 mW/g

LTE - Right/Tilt - Right - Middle - QPSK - 10MHz - 1 RB - 100% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.163 V/m

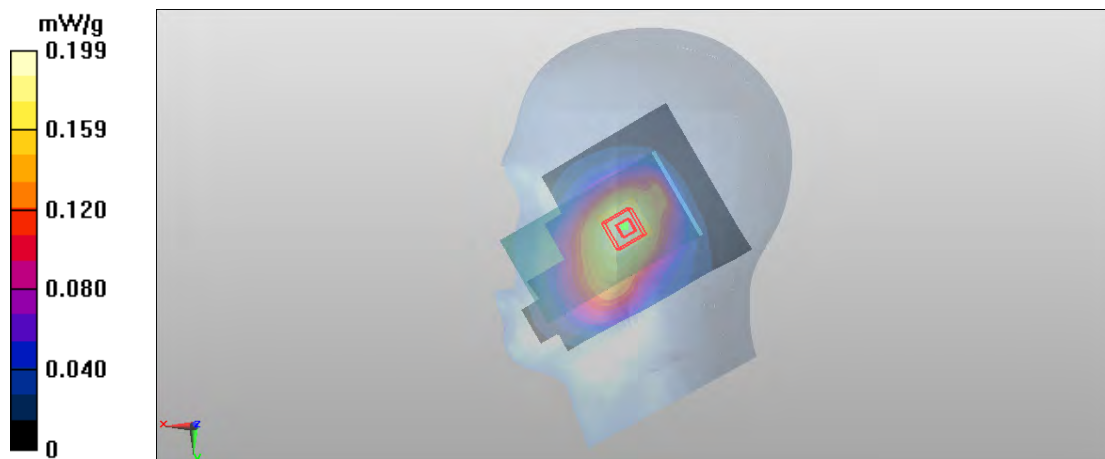
Peak SAR (extrapolated) = 0.236 mW/g

SAR(1 g) = 0.187 mW/g

SAR(10 g) = 0.140 mW/g

Power Drift = -0.14 dB

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



Date/Time: 2012-07-18 12:36:42

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.335$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Cheek - Middle - QPSK - 10MHz - 1 RB - 0% offset/Area Scan (81x121x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.316 mW/g

LTE - Left/Cheek - Middle - QPSK - 10MHz - 1 RB - 0% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.614 V/m

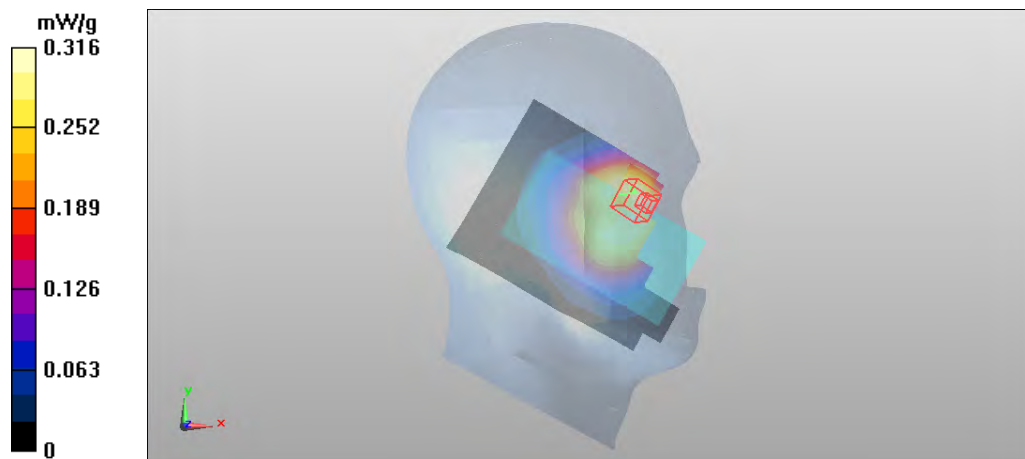
Peak SAR (extrapolated) = 0.456 mW/g

SAR(1 g) = 0.310 mW/g

SAR(10 g) = 0.217 mW/g

Power Drift = 0.24 dB

Maximum value of SAR (measured) = 0.338 mW/g



Date/Time: 2012-07-19 11:28:07

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Tilt - Middle - QPSK - 10MHz - 1 RB - 0% offset/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.146 mW/g

LTE - Left/Tilt - Middle - QPSK - 10MHz - 1 RB - 0% offset/Zoom Scan 3 (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.520 V/m

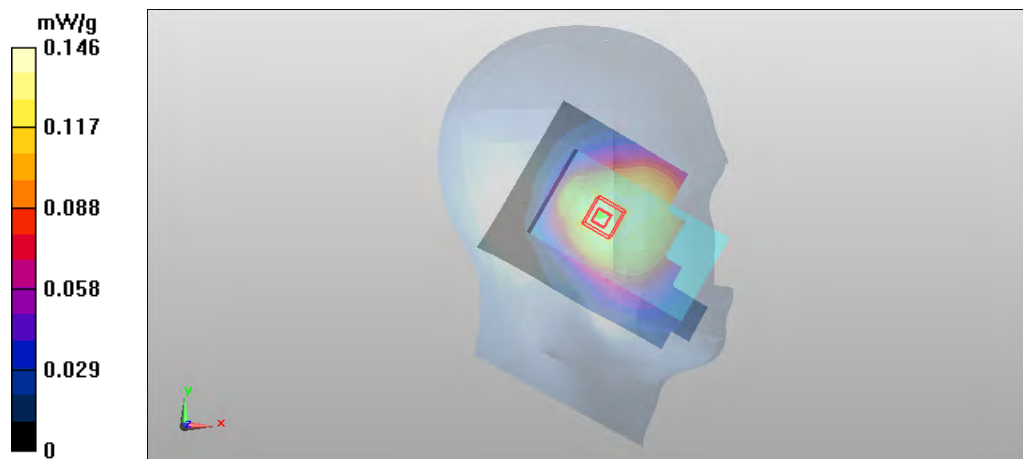
Peak SAR (extrapolated) = 0.202 mW/g

SAR(1 g) = 0.144 mW/g

SAR(10 g) = 0.106 mW/g

Power Drift = -0.33 dB

Maximum value of SAR (measured) = 0.159 mW/g



Date/Time: 2012-07-19 15:39:01

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 1 RB - 0 % offset/Area Scan (81x121x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.533 mW/g

LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 1 RB - 0 % offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.209 V/m

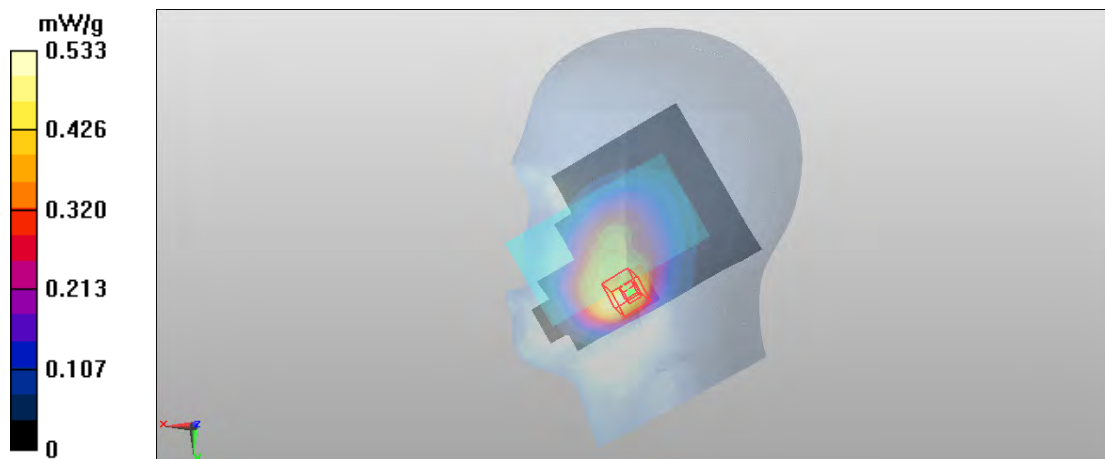
Peak SAR (extrapolated) = 0.821 mW/g

SAR(1 g) = 0.523 mW/g

SAR(10 g) = 0.337 mW/g

Power Drift = -0.31 dB

Maximum value of SAR (measured) = 0.580 mW/g



Date/Time: 2012-07-19 19:47:42

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Tilt - Right - Middle - QPSK - 10MHz - 1 RB - 0 % offset/Area Scan (81x121x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.201 mW/g

LTE - Right/Tilt - Right - Middle - QPSK - 10MHz - 1 RB - 0 % offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.153 V/m

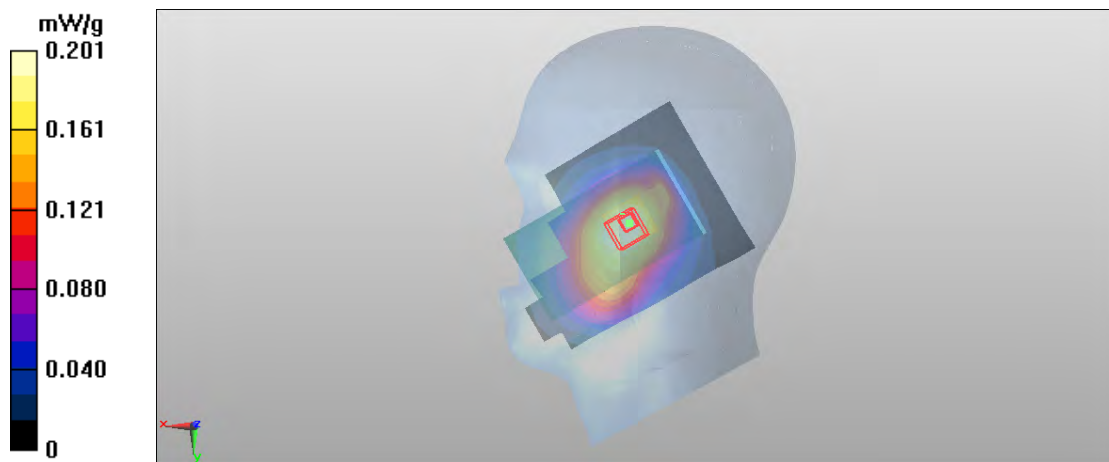
Peak SAR (extrapolated) = 0.255 mW/g

SAR(1 g) = 0.196 mW/g

SAR(10 g) = 0.147 mW/g

Power Drift = 0.24 dB

Maximum value of SAR (measured) = 0.207 mW/g



Date/Time: 2012-07-18 13:33:27

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.932 \text{ mho/m}$; $\epsilon_r = 40.335$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Cheek - Middle - 16QAM - 10MHz - 100% RB/Area Scan (81x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.232 mW/g

LTE - Left/Cheek - Middle - 16QAM - 10MHz - 100% RB/Zoom Scan (6x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.463 V/m

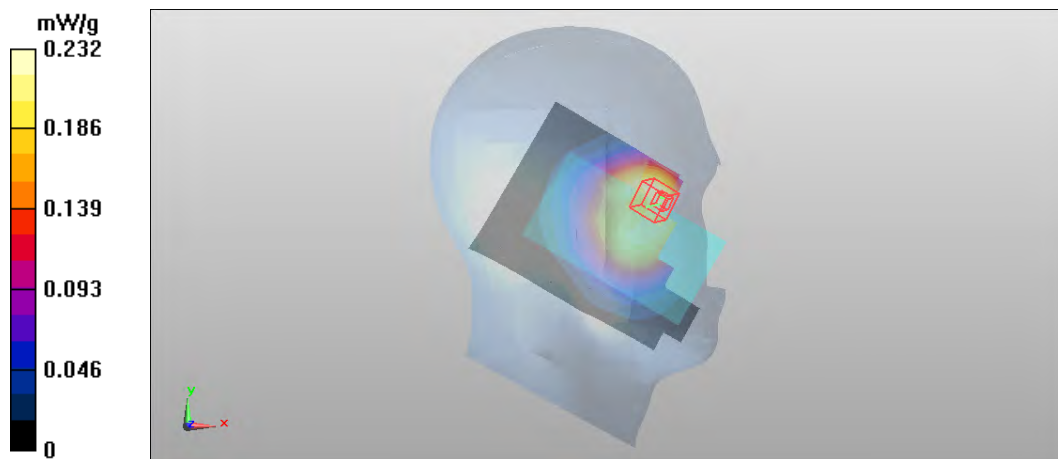
Peak SAR (extrapolated) = 0.313 mW/g

SAR(1 g) = 0.224 mW/g

SAR(10 g) = 0.159 mW/g

Power Drift = 0.31 dB

Maximum value of SAR (measured) = 0.237 mW/g



Date/Time: 2012-07-19 12:00:13

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Tilt - Middle - 16QAM - 10MHz - 100% RB/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.106 mW/g

LTE - Left/Tilt - Middle - 16QAM - 10MHz - 100% RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.380 V/m

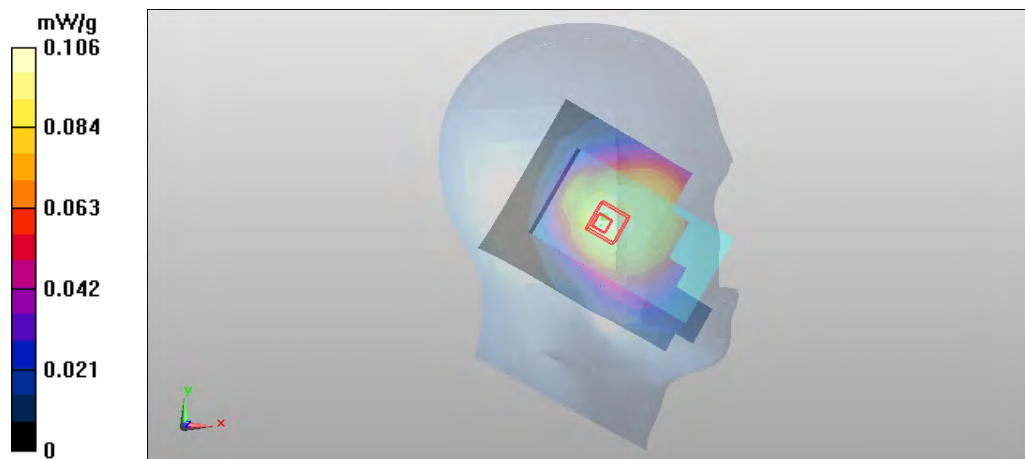
Peak SAR (extrapolated) = 0.131 mW/g

SAR(1 g) = 0.101 mW/g

SAR(10 g) = 0.076 mW/g

Power Drift = 0.26 dB

Maximum value of SAR (measured) = 0.107 mW/g



Date/Time: 2012-07-19 16:23:50

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Cheek - Right - Middle - 16QAM - 10MHz - 100% RB/Area Scan (81x121x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.411 mW/g

LTE - Right/Cheek - Right - Middle - 16QAM - 10MHz - 100% RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.014 V/m

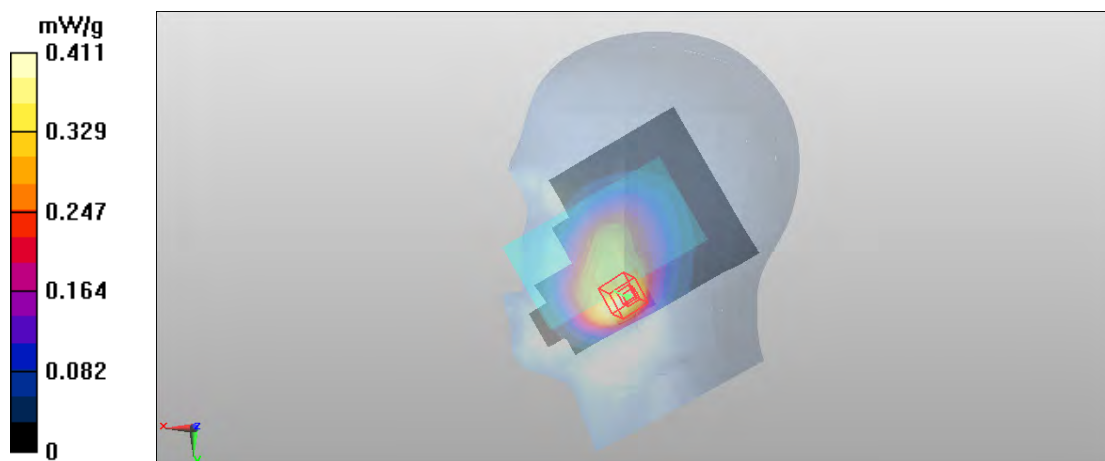
Peak SAR (extrapolated) = 0.616 mW/g

SAR(1 g) = 0.400 mW/g

SAR(10 g) = 0.261 mW/g

Power Drift = -0.06 dB

Maximum value of SAR (measured) = 0.441 mW/g



Date/Time: 2012-07-19 20:12:02

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.932 \text{ mho/m}$; $\epsilon_r = 40.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Tilt - Right - Middle - 16QAM - 10MHz - 100% RB/Area Scan (81x121x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.183 mW/g

LTE - Right/Tilt - Right - Middle - 16QAM - 10MHz - 100% RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.590 V/m

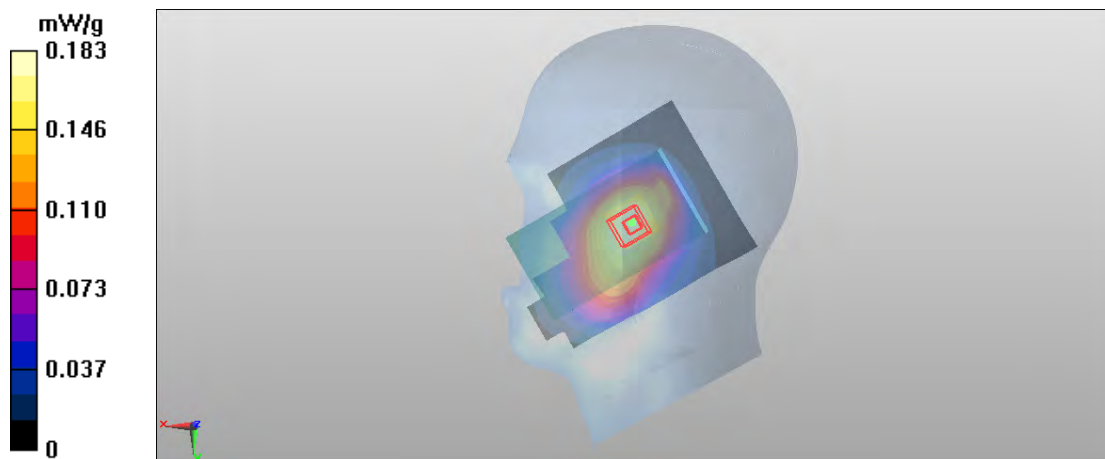
Peak SAR (extrapolated) = 0.221 mW/g

SAR(1 g) = 0.175 mW/g

SAR(10 g) = 0.132 mW/g

Power Drift = -0.00 dB

Maximum value of SAR (measured) = 0.185 mW/g



Date/Time: 2012-07-18 14:02:08

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 0.932 mho/m; ϵ_r = 40.335; ρ = 1000 kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Cheek - Middle - 16QAM - 10MHz - 50% RB - 50% offset/Area Scan (81x121x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.247 mW/g

LTE - Left/Cheek - Middle - 16QAM - 10MHz - 50% RB - 50% offset/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.817 V/m

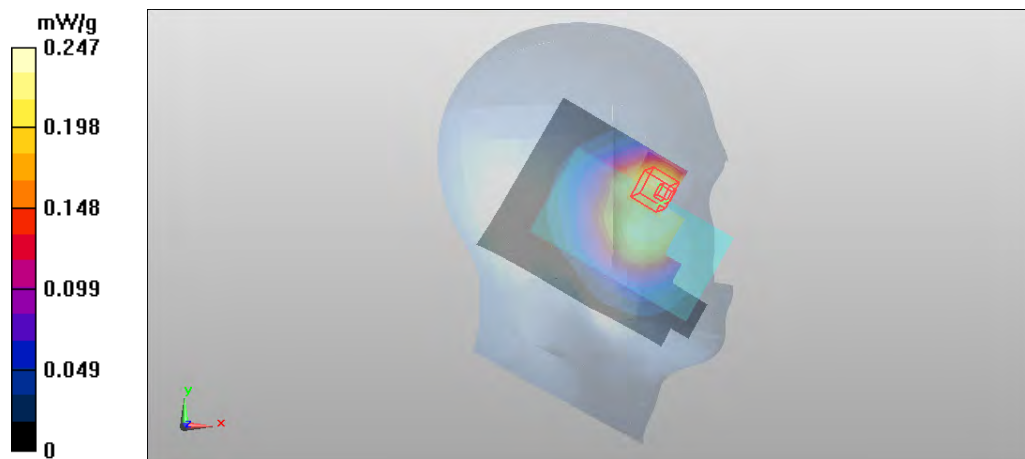
Peak SAR (extrapolated) = 0.356 mW/g

SAR(1 g) = 0.241 mW/g

SAR(10 g) = 0.168 mW/g

Power Drift = 0.18 dB

Maximum value of SAR (measured) = 0.273 mW/g



Date/Time: 2012-07-19 12:24:12

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Tilt - Middle - 16QAM - 10MHz - 50% RB - 50% offset/Area Scan (81x121x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.151 mW/g

LTE - Left/Tilt - Middle - 16QAM - 10MHz - 50% RB - 50% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.056 V/m

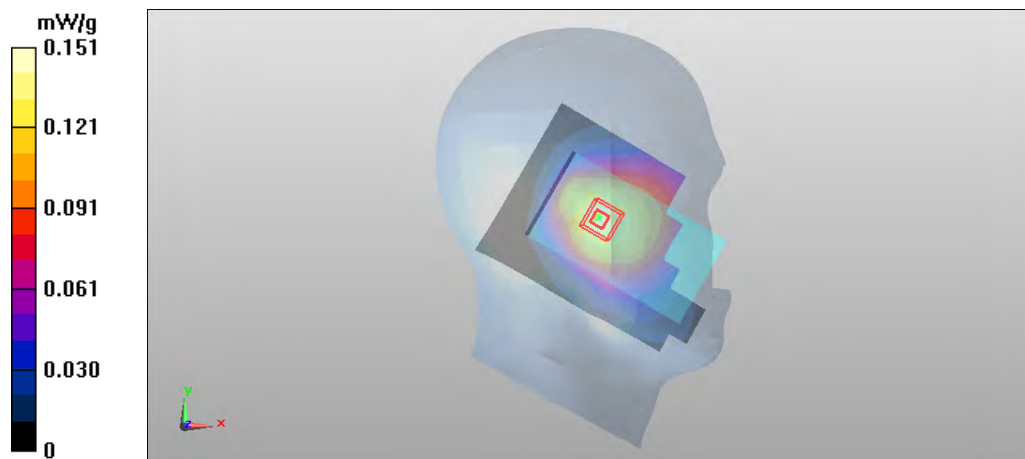
Peak SAR (extrapolated) = 0.182 mW/g

SAR(1 g) = 0.142 mW/g

SAR(10 g) = 0.106 mW/g

Power Drift = -0.03 dB

Maximum value of SAR (measured) = 0.151 mW/g



Date/Time: 2012-07-19 16:46:19

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Cheek - Right - Middle - 16QAM - 10MHz - 50% RB - 50% offset/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

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

LTE - Right/Cheek - Right - Middle - 16QAM - 10MHz - 50% RB - 50% offset/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.096 V/m

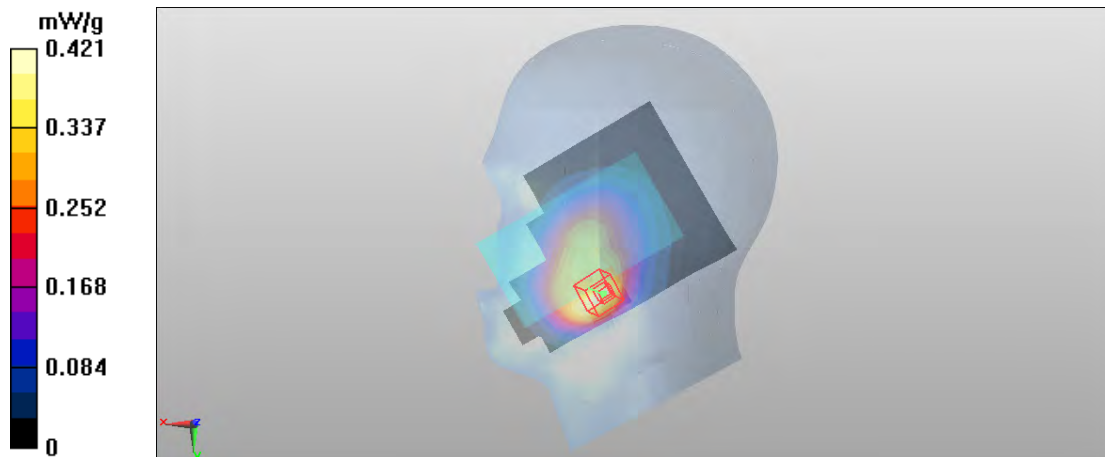
Peak SAR (extrapolated) = 0.636 mW/g

SAR(1 g) = 0.413 mW/g

SAR(10 g) = 0.269 mW/g

Power Drift = 0.07 dB

Maximum value of SAR (measured) = 0.455 mW/g



Date/Time: 2012-07-19 20:31:53

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.932 \text{ mho/m}$; $\epsilon_r = 40.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Tilt - Right - Middle - 16QAM - 10MHz - 50% RB - 50% offset/Area Scan (81x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.193 mW/g

LTE - Right/Tilt - Right - Middle - 16QAM - 10MHz - 50% RB - 50% offset/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.812 V/m

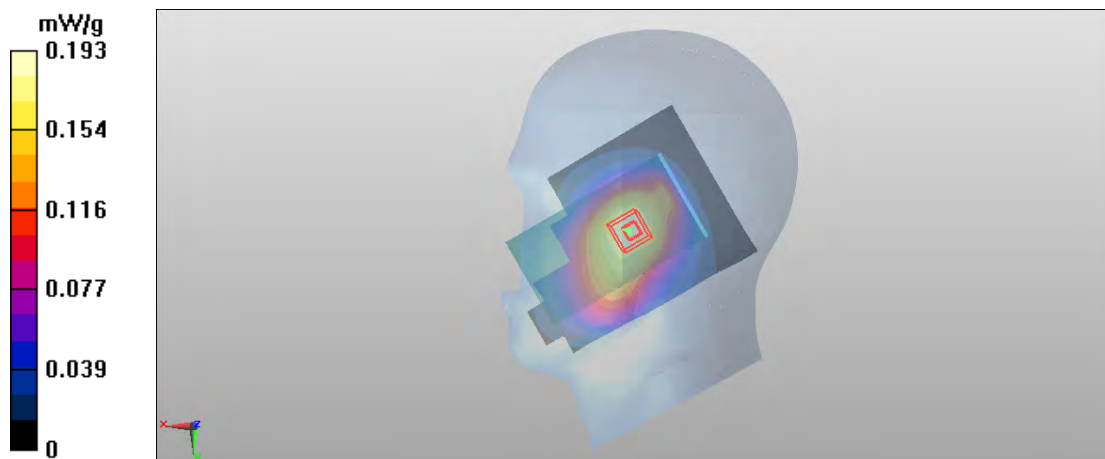
Peak SAR (extrapolated) = 0.232 mW/g

SAR(1 g) = 0.185 mW/g

SAR(10 g) = 0.139 mW/g

Power Drift = 0.07 dB

Maximum value of SAR (measured) = 0.193 mW/g



Date/Time: 2012-07-18 14:33:55

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.335$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Cheek - Middle - 16QAM - 10MHz - 1 RB - 50% offset/Area Scan (81x121x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.302 mW/g

LTE - Left/Cheek - Middle - 16QAM - 10MHz - 1 RB - 50% offset/Zoom Scan (6x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.808 V/m

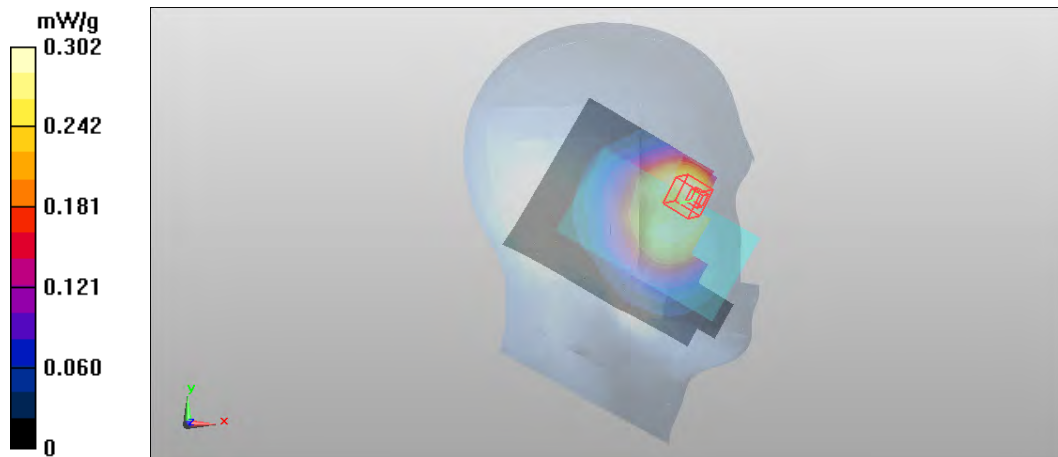
Peak SAR (extrapolated) = 0.412 mW/g

SAR(1 g) = 0.295 mW/g

SAR(10 g) = 0.209 mW/g

Power Drift = -0.07 dB

Maximum value of SAR (measured) = 0.312 mW/g



Date/Time: 2012-07-19 12:44:31

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.932 \text{ mho/m}$; $\epsilon_r = 40.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Tilt - Middle - 16QAM - 10MHz - 1 RB - 50% offset/Area Scan (81x121x1): Measurement grid:

$dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.186 mW/g

LTE - Left/Tilt - Middle - 16QAM - 10MHz - 1 RB - 50% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.122 V/m

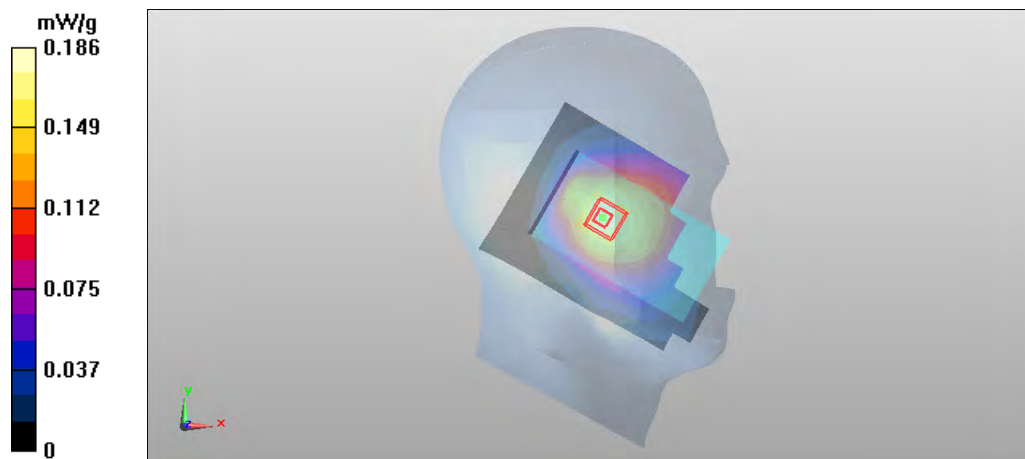
Peak SAR (extrapolated) = 0.222 mW/g

SAR(1 g) = 0.175 mW/g

SAR(10 g) = 0.130 mW/g

Power Drift = 0.02 dB

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



Date/Time: 2012-07-19 17:24:37

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Cheek - Right - Middle - 16QAM - 10MHz - 1 RB - 50% offset/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.516 mW/g

LTE - Right/Cheek - Right - Middle - 16QAM - 10MHz - 1 RB - 50% offset/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.853 V/m

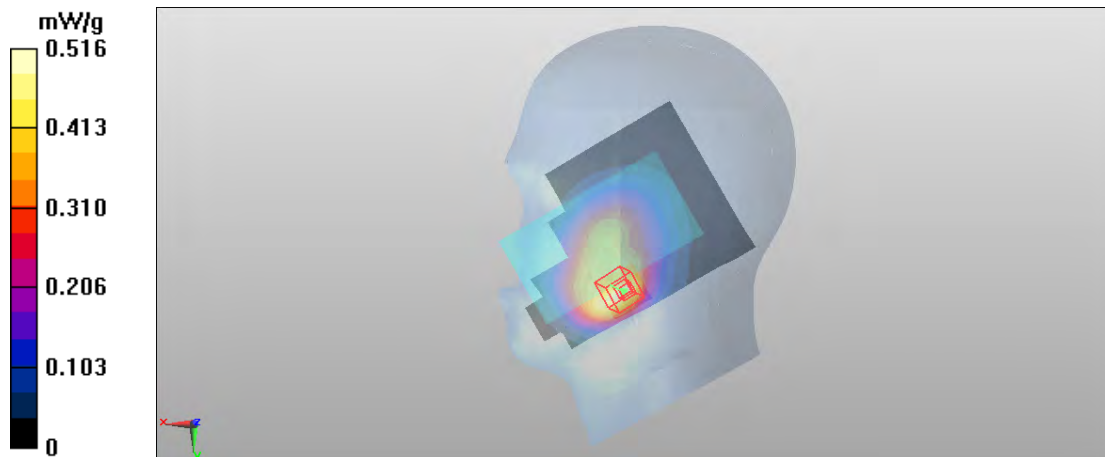
Peak SAR (extrapolated) = 0.779 mW/g

SAR(1 g) = 0.508 mW/g

SAR(10 g) = 0.331 mW/g

Power Drift = 0.23 dB

Maximum value of SAR (measured) = 0.559 mW/g



Date/Time: 2012-07-19 21:24:50

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.932 \text{ mho/m}$; $\epsilon_r = 40.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Tilt - Right - Middle - 16QAM - 10MHz - 1 RB - 50% offset/Area Scan (81x121x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.221 mW/g

LTE - Right/Tilt - Right - Middle - 16QAM - 10MHz - 1 RB - 50% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.428 V/m

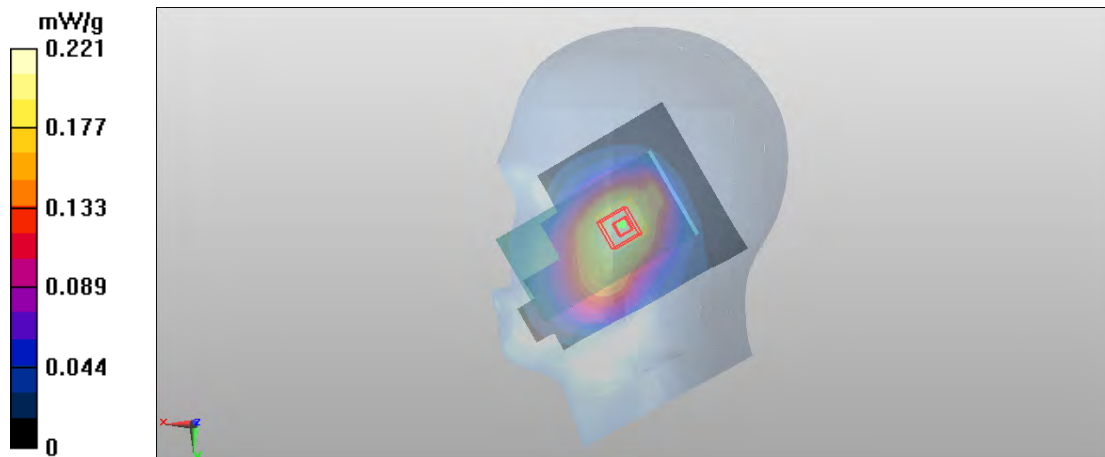
Peak SAR (extrapolated) = 0.268 mW/g

SAR(1 g) = 0.212 mW/g

SAR(10 g) = 0.160 mW/g

Power Drift = 0.20 dB

Maximum value of SAR (measured) = 0.224 mW/g



Date/Time: 2012-07-19 07:13:05

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Cheek - Middle - 16QAM - 10MHz - 1 RB - 100% offset/Area Scan (81x121x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.211 mW/g

LTE - Left/Cheek - Middle - 16QAM - 10MHz - 1 RB - 100% offset/Zoom Scan 3 (5x5x7)/Cube 0: Measurement

grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.492 V/m

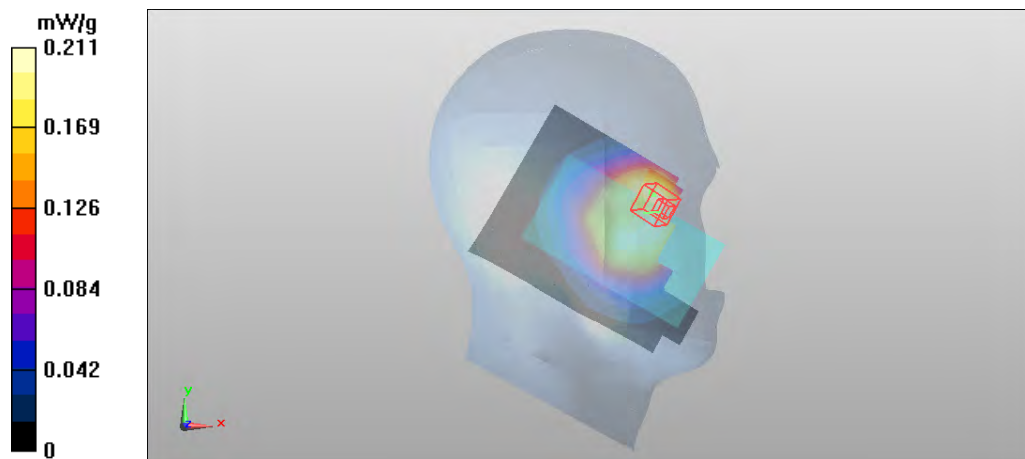
Peak SAR (extrapolated) = 0.314 mW/g

SAR(1 g) = 0.214 mW/g

SAR(10 g) = 0.152 mW/g

Power Drift = 0.83 dB

Maximum value of SAR (measured) = 0.227 mW/g



Date/Time: 2012-07-19 13:05:08

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Tilt - Middle - 16QAM - 10MHz - 1 RB - 100% offset/Area Scan (81x121x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.141 mW/g

LTE - Left/Tilt - Middle - 16QAM - 10MHz - 1 RB - 100% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.940 V/m

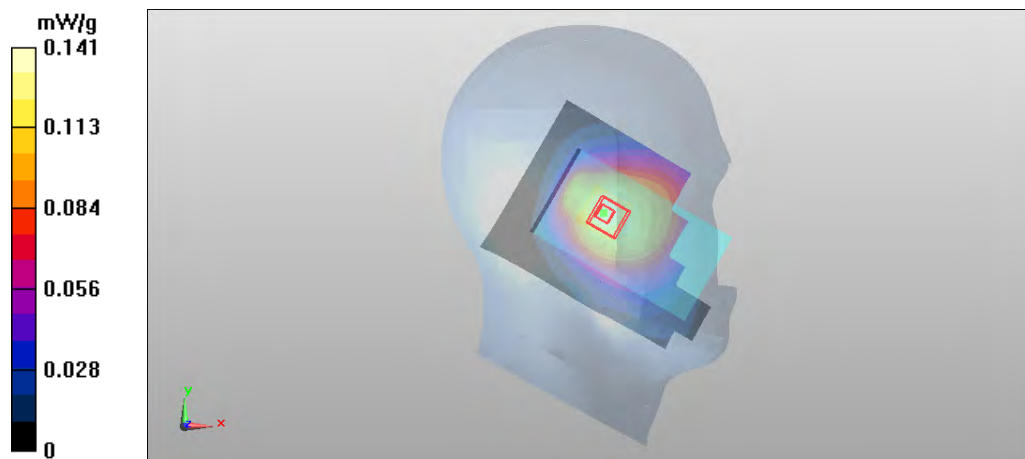
Peak SAR (extrapolated) = 0.172 mW/g

SAR(1 g) = 0.133 mW/g

SAR(10 g) = 0.099 mW/g

Power Drift = -0.22 dB

Maximum value of SAR (measured) = 0.141 mW/g



Date/Time: 2012-07-19 17:43:33

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Cheek - Right - Middle - 16QAM - 10MHz - 1 RB - 100% offset/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.399 mW/g

LTE - Right/Cheek - Right - Middle - 16QAM - 10MHz - 1 RB - 100% offset/Zoom Scan 3 (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.755 V/m

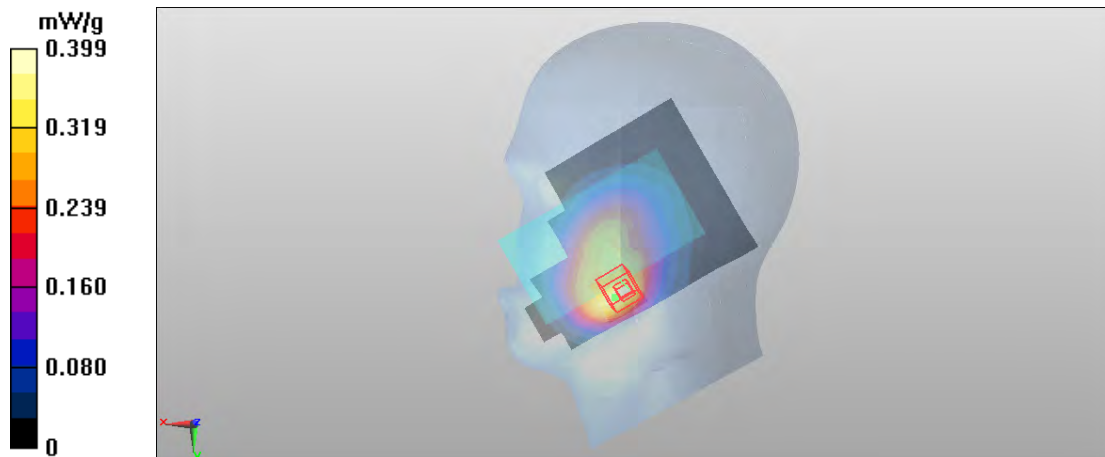
Peak SAR (extrapolated) = 0.567 mW/g

SAR(1 g) = 0.378 mW/g

SAR(10 g) = 0.246 mW/g

Power Drift = 0.12 dB

Maximum value of SAR (measured) = 0.412 mW/g



Date/Time: 2012-07-19 21:43:45

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.932 \text{ mho/m}$; $\epsilon_r = 40.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Tilt - Right - Middle - 16QAM - 10MHz - 1 RB - 100% offset/Area Scan (81x121x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.167 mW/g

LTE - Right/Tilt - Right - Middle - 16QAM - 10MHz - 1 RB - 100% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.971 V/m

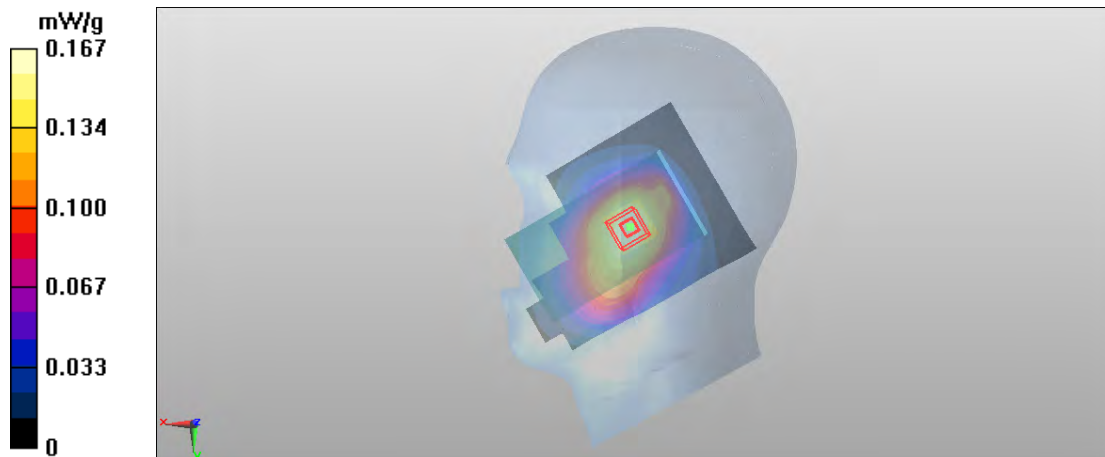
Peak SAR (extrapolated) = 0.207 mW/g

SAR(1 g) = 0.160 mW/g

SAR(10 g) = 0.120 mW/g

Power Drift = 0.13 dB

Maximum value of SAR (measured) = 0.167 mW/g



Date/Time: 2012-07-19 07:54:19

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Cheek - Middle - 16QAM - 10MHz - 1 RB - 0% offset/Area Scan (81x121x1): Measurement grid:

dx=15mm, dy=15mm

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

LTE - Left/Cheek - Middle - 16QAM - 10MHz - 1 RB - 0% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.877 V/m

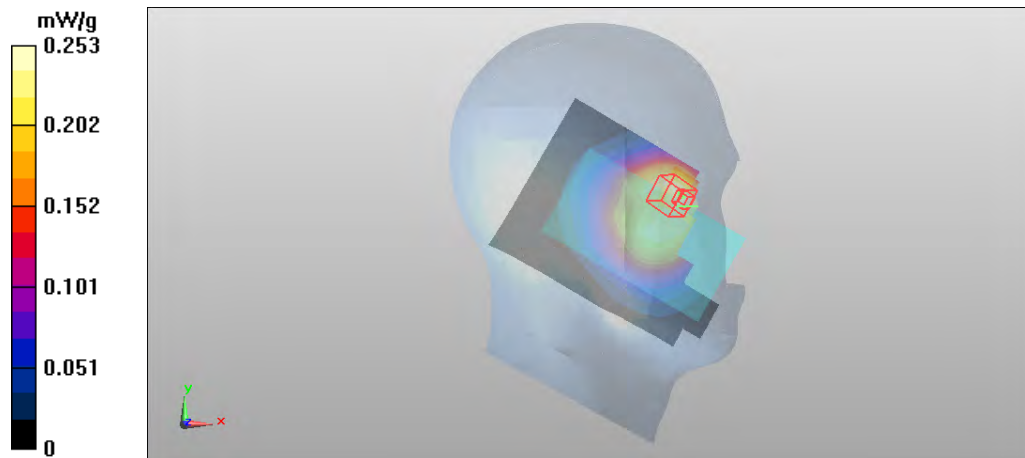
Peak SAR (extrapolated) = 0.378 mW/g

SAR(1 g) = 0.249 mW/g

SAR(10 g) = 0.175 mW/g

Power Drift = 0.21 dB

Maximum value of SAR (measured) = 0.269 mW/g



Date/Time: 2012-07-19 13:24:07

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Tilt - Middle - 16QAM - 10MHz - 1 RB - 0% offset/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.146 mW/g

LTE - Left/Tilt - Middle - 16QAM - 10MHz - 1 RB - 0% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.824 V/m

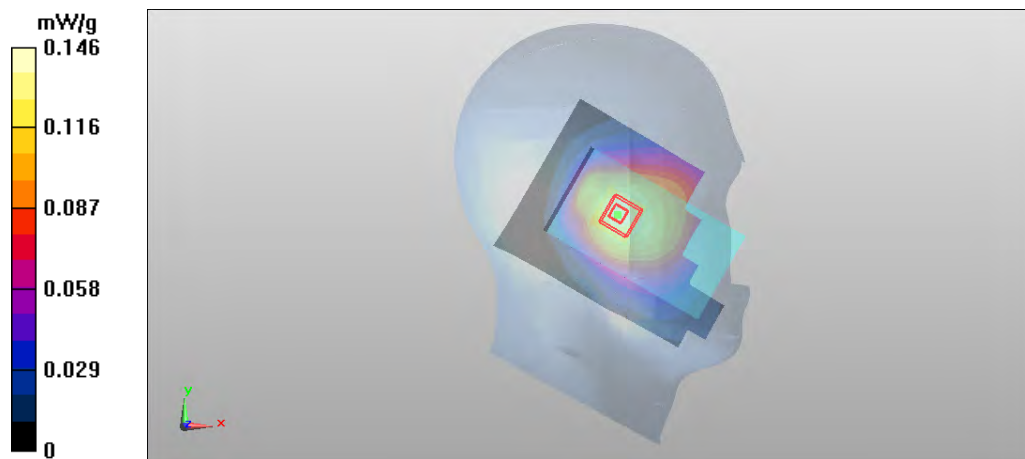
Peak SAR (extrapolated) = 0.176 mW/g

SAR(1 g) = 0.137 mW/g

SAR(10 g) = 0.101 mW/g

Power Drift = 0.06 dB

Maximum value of SAR (measured) = 0.144 mW/g



Date/Time: 2012-07-19 17:05:24

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Cheek - Right - Middle - 16QAM - 10MHz - 1 RB - 0% offset/Area Scan (81x121x1): Measurement
grid: dx=15mm, dy=15mm

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

LTE - Right/Cheek - Right - Middle - 16QAM - 10MHz - 1 RB - 0% offset/Zoom Scan (5x5x7)/Cube 0: Measurement
grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.314 V/m

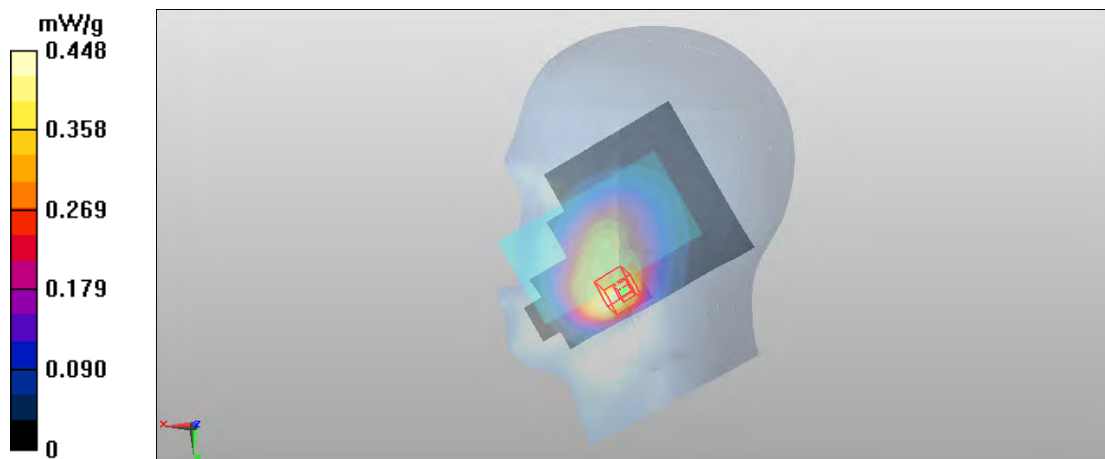
Peak SAR (extrapolated) = 0.675 mW/g

SAR(1 g) = 0.434 mW/g

SAR(10 g) = 0.282 mW/g

Power Drift = -0.21 dB

Maximum value of SAR (measured) = 0.485 mW/g



Date/Time: 2012-07-19 22:02:54

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP;
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Tilt - Right - Middle - 16QAM - 10MHz - 1 RB - 0% offset/Area Scan (81x121x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.254 mW/g

LTE - Right/Tilt - Right - Middle - 16QAM - 10MHz - 1 RB - 0% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.527 V/m

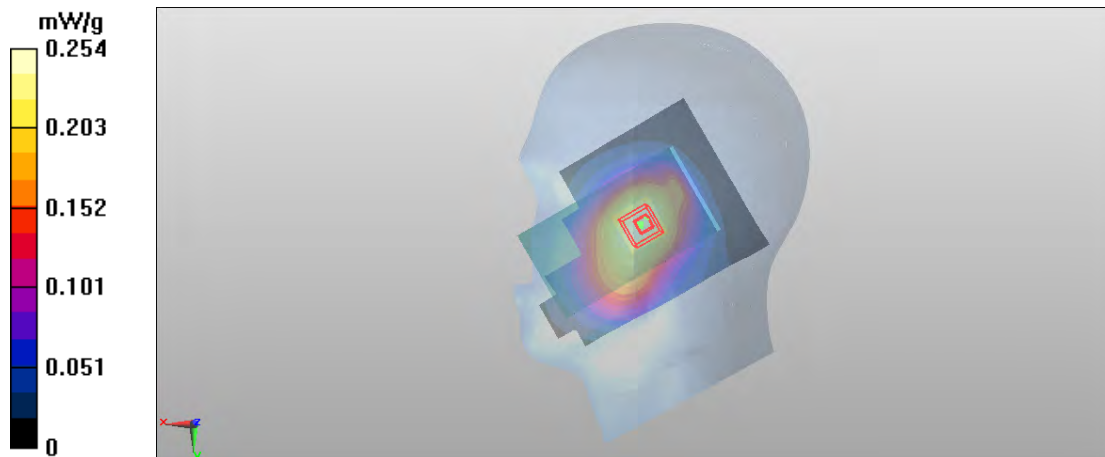
Peak SAR (extrapolated) = 0.301 mW/g

SAR(1 g) = 0.240 mW/g

SAR(10 g) = 0.181 mW/g

Power Drift = -0.12 dB

Maximum value of SAR (measured) = 0.250 mW/g



Date/Time: 2012-07-19 18:15:27

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium Notes: T=20.8

Medium parameters used: $f = 837$ MHz; $\sigma = 0.899$ mho/m; $\epsilon_r = 41.755$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn420; Calibrated: 2011-07-21
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Left/Cheek - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.744 mW/g

CDMA - Left/Cheek - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.942 V/m

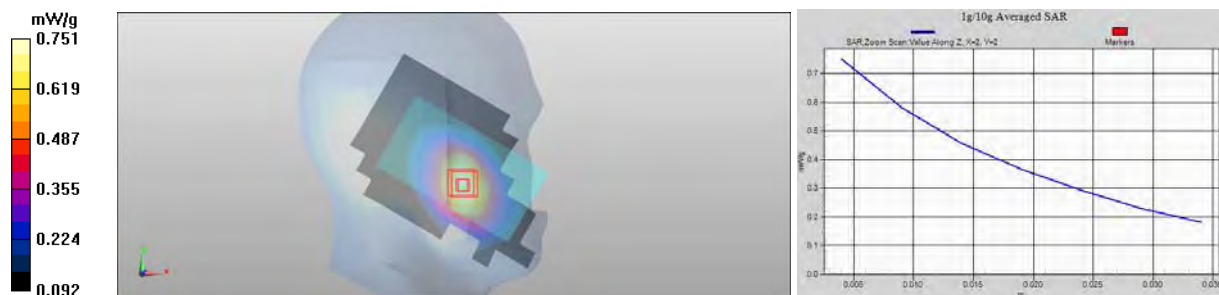
Peak SAR (extrapolated) = 0.929 mW/g

SAR(1 g) = 0.708 mW/g

SAR(10 g) = 0.524 mW/g

Power Drift = -0.37 dB

Maximum value of SAR (measured) = 0.751 mW/g



Date/Time: 2012-07-19 18:37:46

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium Notes: T=20.8

Medium parameters used: $f = 837$ MHz; $\sigma = 0.899$ mho/m; $\epsilon_r = 41.755$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6R - SN1399

- ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn420; Calibrated: 2011-07-21

- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279

- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Left/Tilt - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

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

CDMA - Left/Tilt - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.016 V/m

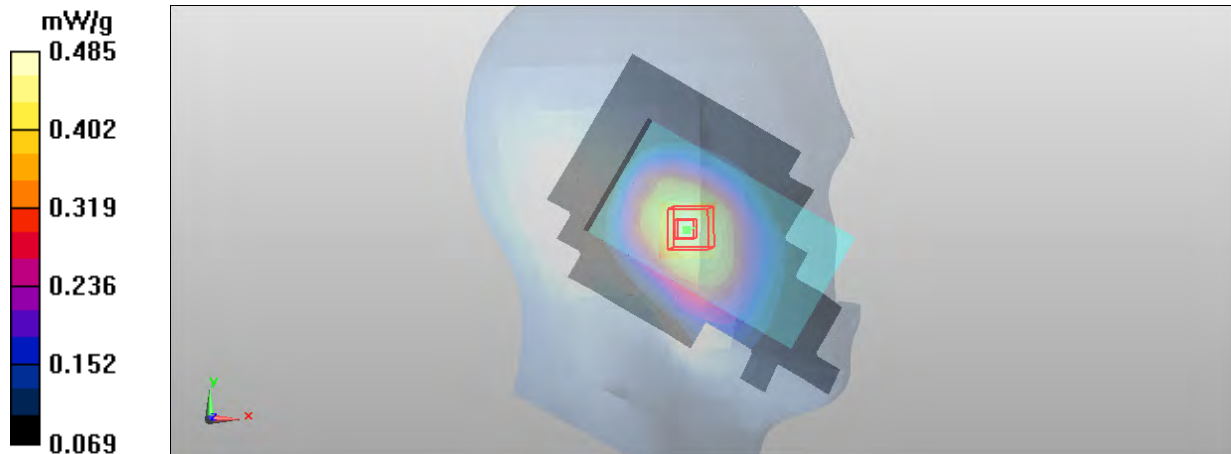
Peak SAR (extrapolated) = 0.564 mW/g

SAR(1 g) = 0.456 mW/g

SAR(10 g) = 0.343 mW/g

Power Drift = -0.11 dB

Maximum value of SAR (measured) = 0.485 mW/g



Date/Time: 2012-07-19 19:02:41

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium Notes: T=20.8

Medium parameters used: $f = 837$ MHz; $\sigma = 0.899$ mho/m; $\epsilon_r = 41.755$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn420; Calibrated: 2011-07-21
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Right/Cheek - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.564 mW/g

CDMA - Right/Cheek - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.391 V/m

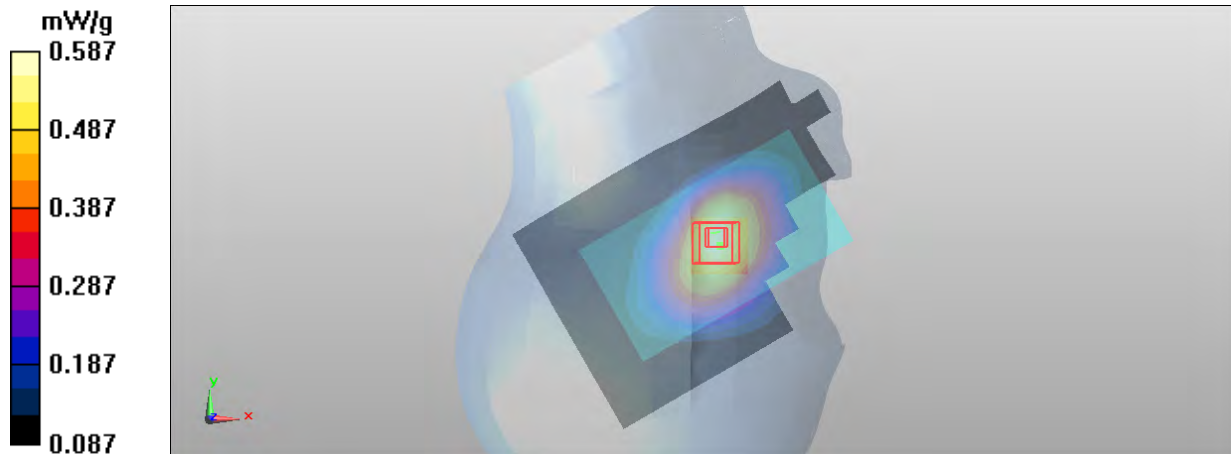
Peak SAR (extrapolated) = 0.719 mW/g

SAR(1 g) = 0.556 mW/g

SAR(10 g) = 0.416 mW/g

Power Drift = 0.12 dB

Maximum value of SAR (measured) = 0.587 mW/g



Date/Time: 2012-07-19 19:21:53

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium Notes: T=20.8

Medium parameters used: $f = 837$ MHz; $\sigma = 0.899$ mho/m; $\epsilon_r = 41.755$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6R - SN1399

- ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn420; Calibrated: 2011-07-21

- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279

- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Right/Tilt - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.489 mW/g

CDMA - Right/Tilt - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 19.022 V/m

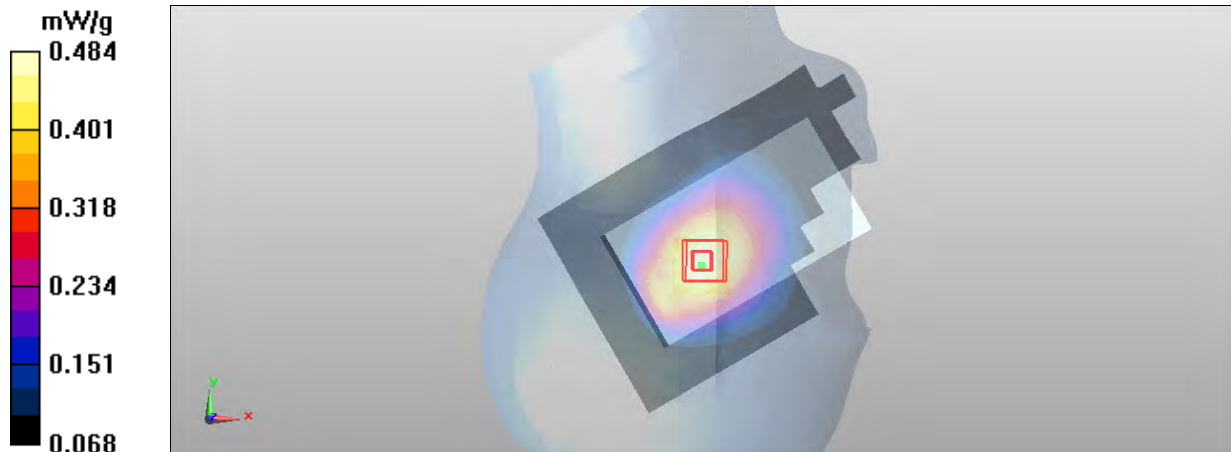
Peak SAR (extrapolated) = 0.572 mW/g

SAR(1 g) = 0.460 mW/g

SAR(10 g) = 0.349 mW/g

Power Drift = -0.04 dB

Maximum value of SAR (measured) = 0.484 mW/g



Date/Time: 2012-07-26 22:50:55

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: GSM850

Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium: HSL850; Medium Notes: t= 21.2 C

Medium parameters used: f = 837 MHz; σ = 0.927 mho/m; ϵ_r = 40.553; ρ = 1000 kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.88, 5.88, 5.88); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

GSM - Left/Cheek - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.775 mW/g

GSM - Left/Cheek - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.550 V/m

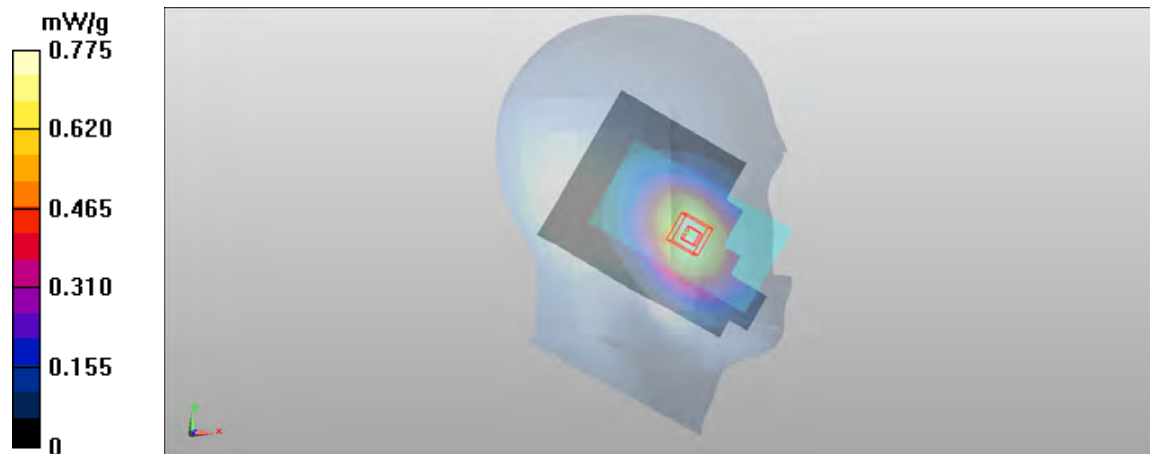
Peak SAR (extrapolated) = 0.904 mW/g

SAR(1 g) = 0.739 mW/g

SAR(10 g) = 0.565 mW/g

Power Drift = -0.10 dB

Maximum value of SAR (measured) = 0.775 mW/g



Date/Time: 2012-07-26 23:16:24

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 2-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:4.19952

Medium: HSL850; Medium Notes: t= 21.2 C

Medium parameters used: f = 837 MHz; σ = 0.927 mho/m; ϵ_r = 40.553; ρ = 1000 kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.88, 5.88, 5.88); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

2-slot GPRS - Left/Cheek - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.823 mW/g

2-slot GPRS - Left/Cheek - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.058 V/m

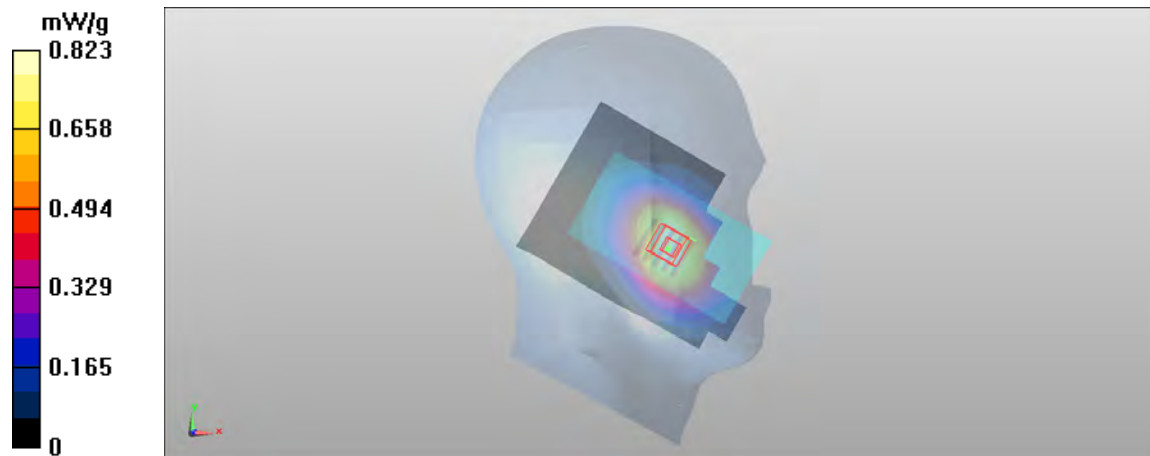
Peak SAR (extrapolated) = 0.950 mW/g

SAR(1 g) = 0.785 mW/g

SAR(10 g) = 0.601 mW/g

Power Drift = -0.16 dB

Maximum value of SAR (measured) = 0.823 mW/g



Date/Time: 2012-08-07 18:34:30

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 3-slot GPRS850

Frequency: 848.8 MHz; Duty Cycle: 1:2.80027

Medium: HSL850; Medium Notes: t= 20,8 C

Medium parameters used: f = 849 MHz; σ = 0.922 mho/m; ϵ_r = 40.125; ρ = 1000 kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.88, 5.88, 5.88); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

3-slot GPRS - Left/Cheek - High/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.935 mW/g

3-slot GPRS - Left/Cheek - High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.971 V/m

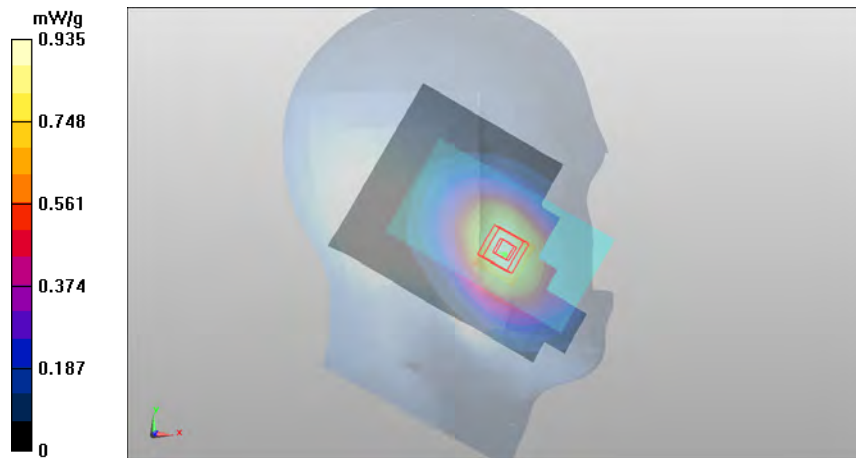
Peak SAR (extrapolated) = 1.070 mW/g

SAR(1 g) = 0.883 mW/g

SAR(10 g) = 0.675 mW/g

Power Drift = -0.22 dB

Maximum value of SAR (measured) = 0.921 mW/g



Date/Time: 2012-08-07 16:44:43

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850

Frequency: 848.8 MHz; Duty Cycle: 1:2.09991

Medium: HSL850; Medium Notes: t= 20,8 C

Medium parameters used: f = 849 MHz; $\sigma = 0.922$ mho/m; $\epsilon_r = 40.125$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.88, 5.88, 5.88); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

4-slot GPRS - Left/Cheek - High/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

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

4-slot GPRS - Left/Cheek - High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.657 V/m

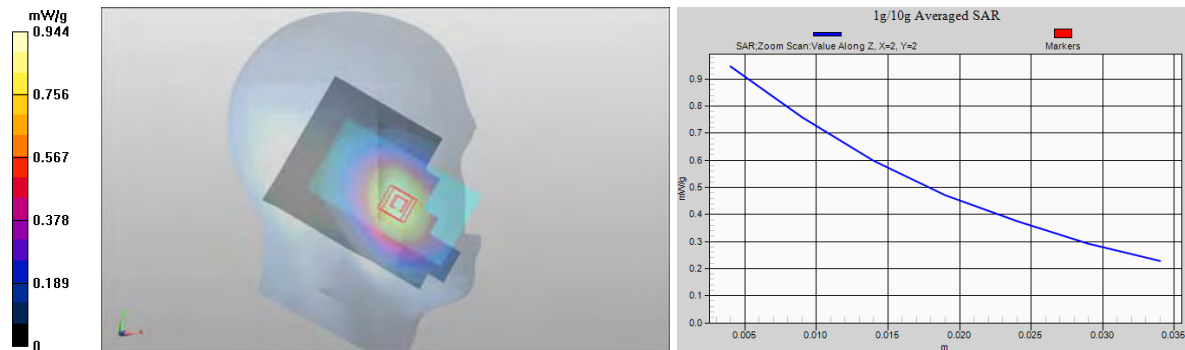
Peak SAR (extrapolated) = 1.114 mW/g

SAR(1 g) = 0.904 mW/g

SAR(10 g) = 0.685 mW/g

Power Drift = -0.12 dB

Maximum value of SAR (measured) = 0.946 mW/g



Date/Time: 2012-07-29 15:16:43

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.09991

Medium: HSL850; Medium Notes: t= 21.4 C

Medium parameters used: f = 837 MHz; σ = 0.928 mho/m; ϵ_r = 40.694; ρ = 1000 kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.88, 5.88, 5.88); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

4-slot GPRS - Left/Tilt - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.510 mW/g

4-slot GPRS - Left/Tilt - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.263 V/m

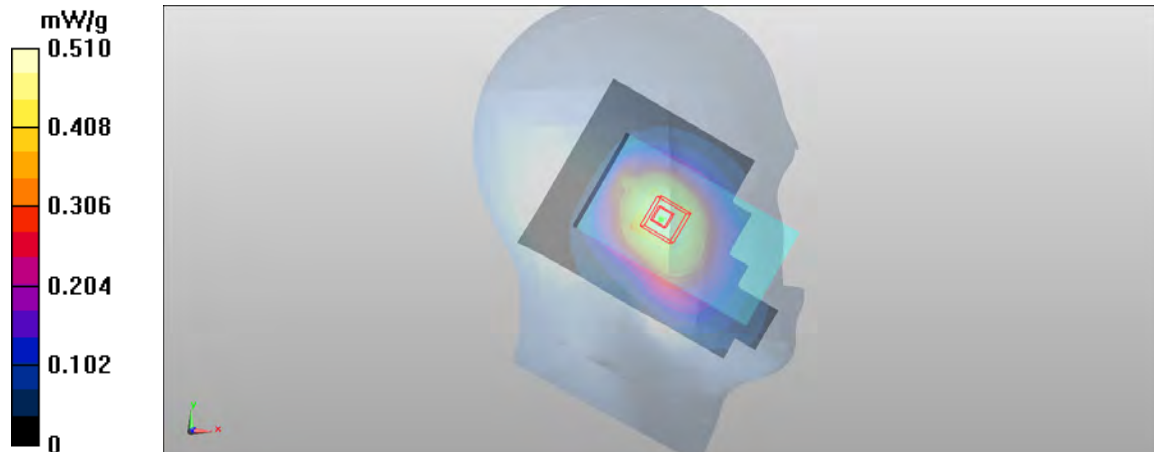
Peak SAR (extrapolated) = 0.565 mW/g

SAR(1 g) = 0.463 mW/g

SAR(10 g) = 0.354 mW/g

Power Drift = -0.07 dB

Maximum value of SAR (measured) = 0.489 mW/g



Date/Time: 2012-07-29 15:44:28

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.09991

Medium: HSL850; Medium Notes: t= 21.4 C

Medium parameters used: f = 837 MHz; σ = 0.928 mho/m; ϵ_r = 40.694; ρ = 1000 kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.88, 5.88, 5.88); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

4-slot GPRS - Right/Cheek - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.682 mW/g

4-slot GPRS - Right/Cheek - Middle/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.344 V/m

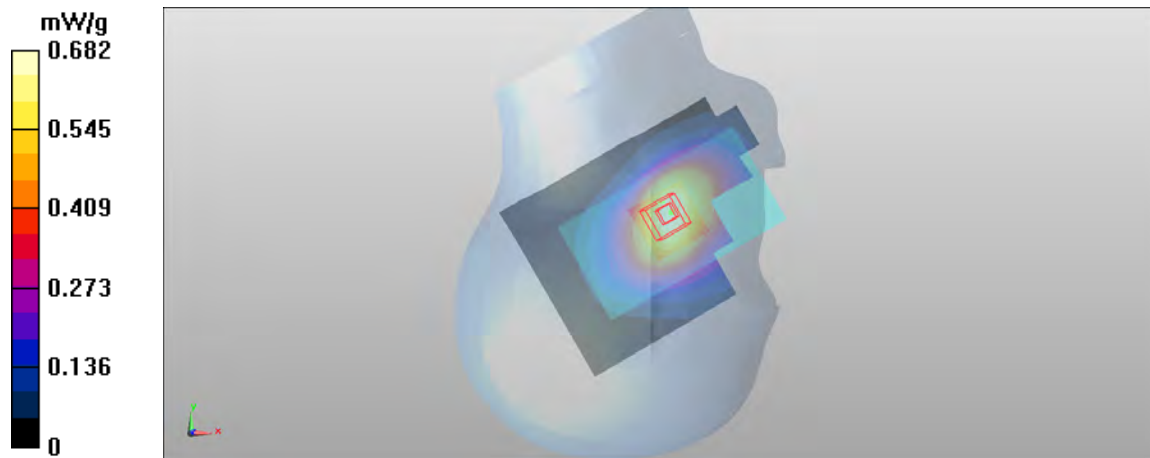
Peak SAR (extrapolated) = 0.817 mW/g

SAR(1 g) = 0.665 mW/g

SAR(10 g) = 0.503 mW/g

Power Drift = 0.04 dB

Maximum value of SAR (measured) = 0.692 mW/g



Date/Time: 2012-07-29 16:17:36

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.09991

Medium: HSL850; Medium Notes: t= 21.4 C

Medium parameters used: f = 837 MHz; σ = 0.928 mho/m; ϵ_r = 40.694; ρ = 1000 kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.88, 5.88, 5.88); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

4-slot GPRS - Right/Tilt -Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.450 mW/g

4-slot GPRS - Right/Tilt -Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.662 V/m

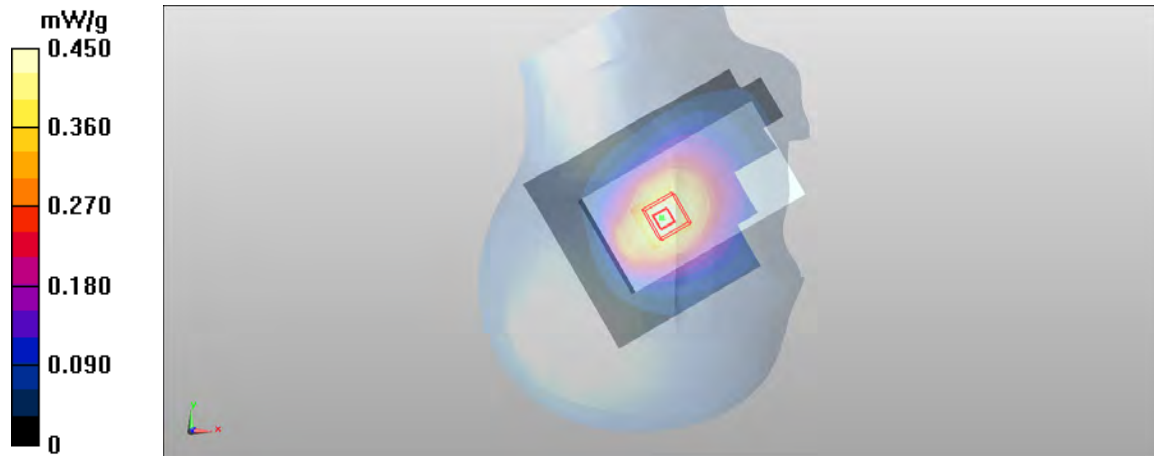
Peak SAR (extrapolated) = 0.517 mW/g

SAR(1 g) = 0.420 mW/g

SAR(10 g) = 0.319 mW/g

Power Drift = -0.11 dB

Maximum value of SAR (measured) = 0.441 mW/g



Date/Time: 2012-08-07 19:48:51

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot 8PSK EGPRS850

Frequency: 848.8 MHz; Duty Cycle: 1:2.09991

Medium: HSL850; Medium Notes: t= 20,8 C

Medium parameters used: f = 849 MHz; σ = 0.922 mho/m; ϵ_r = 40.125; ρ = 1000 kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.88, 5.88, 5.88); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

8PSK EGPRS - Left/Cheek - High/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.671 mW/g

8PSK EGPRS - Left/Cheek - High/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.439 V/m

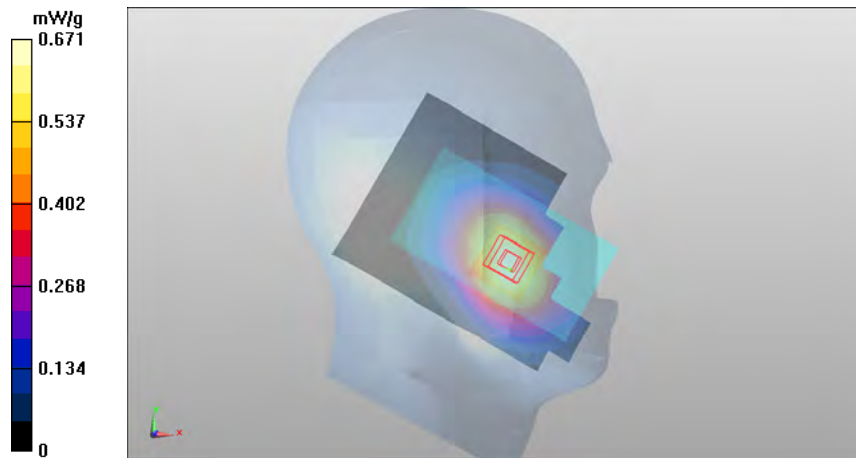
Peak SAR (extrapolated) = 0.763 mW/g

SAR(1 g) = 0.617 mW/g

SAR(10 g) = 0.473 mW/g

Power Drift = -0.33 dB

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



Date/Time: 2012-08-07 12:48:41

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL900; Medium Notes: T22.1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.886 \text{ mho/m}$; $\epsilon_r = 40.934$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA5 - Left/Cheek - Middle/Area Scan (81x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.652 mW/g

WCDMA5 - Left/Cheek - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.608 V/m

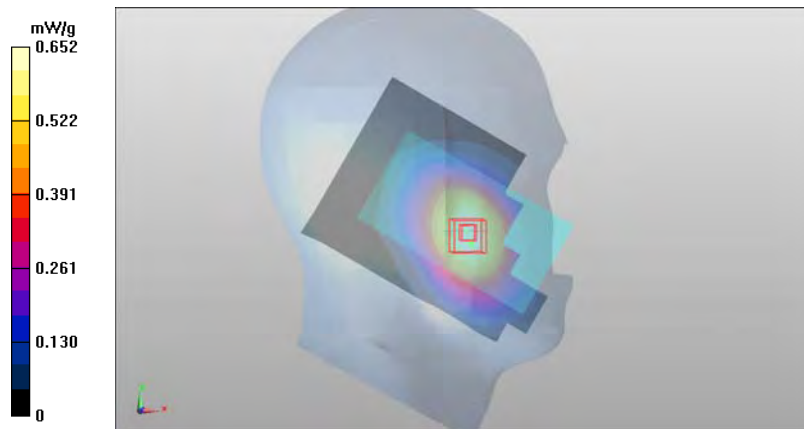
Peak SAR (extrapolated) = 0.796 mW/g

SAR(1 g) = 0.628 mW/g

SAR(10 g) = 0.464 mW/g

Power Drift = -0.21 dB

Maximum value of SAR (measured) = 0.663 mW/g



Date/Time: 2012-08-07 14:20:14

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL900; Medium Notes: T22.1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.886$ mho/m; $\epsilon_r = 40.934$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6R - SN1399

- ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn756; Calibrated: 2011-08-26

- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177

- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA5 - Left/Tilt - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.425 mW/g

WCDMA5 - Left/Tilt - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.812 V/m

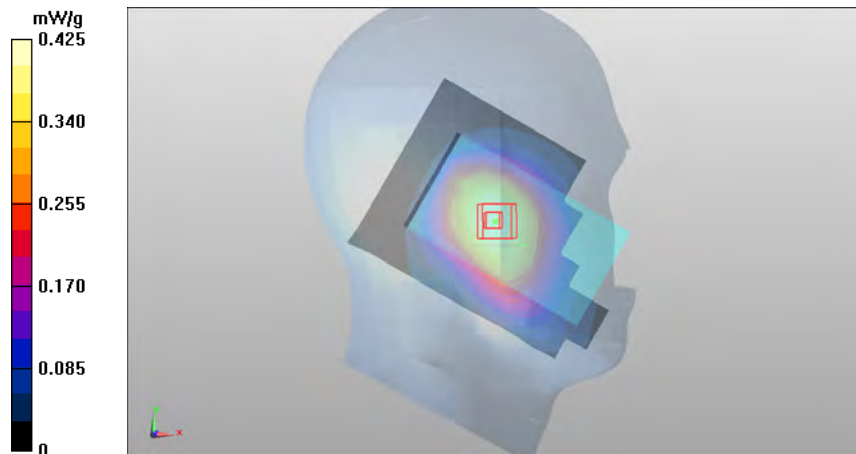
Peak SAR (extrapolated) = 0.499 mW/g

SAR(1 g) = 0.402 mW/g

SAR(10 g) = 0.304 mW/g

Power Drift = -0.18 dB

Maximum value of SAR (measured) = 0.425 mW/g



Date/Time: 2012-08-07 17:01:39

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL900; Medium Notes: T22.1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.886$ mho/m; $\epsilon_r = 40.934$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA - Right/Cheek - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

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

WCDMA - Right/Cheek - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.442 V/m

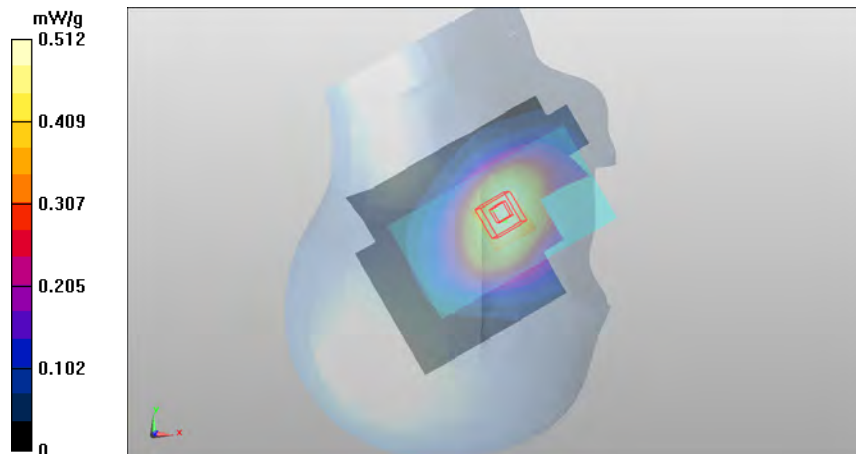
Peak SAR (extrapolated) = 0.594 mW/g

SAR(1 g) = 0.487 mW/g

SAR(10 g) = 0.369 mW/g

Power Drift = 0.14 dB

Maximum value of SAR (measured) = 0.514 mW/g



Date/Time: 2012-08-07 17:20:05

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL900; Medium Notes: T22.1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.886$ mho/m; $\epsilon_r = 40.934$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA - Right/Tilt - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.446 mW/g

WCDMA - Right/Tilt - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.321 V/m

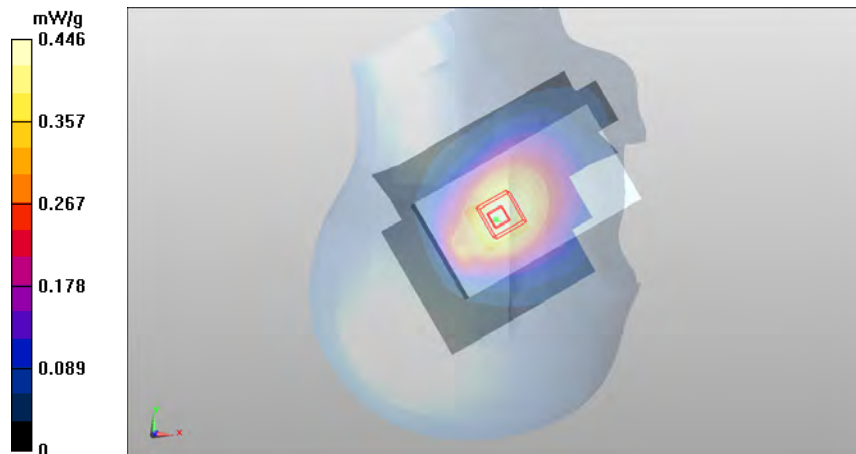
Peak SAR (extrapolated) = 0.503 mW/g

SAR(1 g) = 0.411 mW/g

SAR(10 g) = 0.312 mW/g

Power Drift = -0.07 dB

Maximum value of SAR (measured) = 0.434 mW/g



Date/Time: 2012-07-23 17:53:01

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900 RC3/S055

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=22.5

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.383$ mho/m; $\epsilon_r = 38.596$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Left/Cheek - Low/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.20 mW/g

CDMA - Left/Cheek - Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.904 V/m

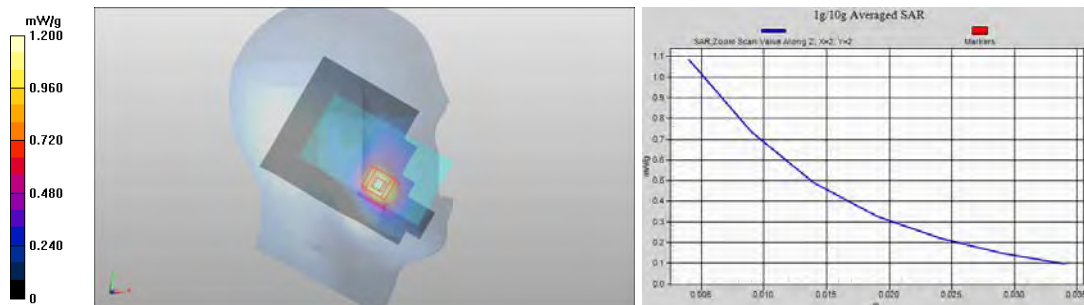
Peak SAR (extrapolated) = 1.478 mW/g

SAR(1 g) = 1.03 mW/g

SAR(10 g) = 0.644 mW/g

Power Drift = -0.14 dB

Maximum value of SAR (measured) = 1.09 mW/g



Date/Time: 2012-07-18 11:35:40

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900 RC3/S055

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=22.2

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.449$ mho/m; $\epsilon_r = 38.967$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2011-07-21
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Left/Tilt - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.516 mW/g

CDMA - Left/Tilt - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.443 V/m

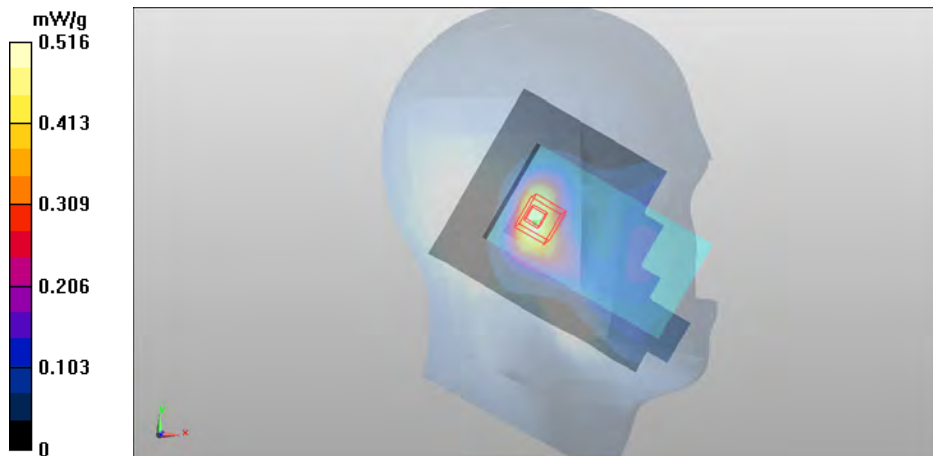
Peak SAR (extrapolated) = 0.633 mW/g

SAR(1 g) = 0.424 mW/g

SAR(10 g) = 0.265 mW/g

Power Drift = -0.28 dB

Maximum value of SAR (measured) = 0.457 mW/g



Date/Time: 2012-07-18 11:59:02

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900 RC3/S055

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=22.2

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.449$ mho/m; $\epsilon_r = 38.967$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2011-07-21
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Right/Cheek - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.977 mW/g

CDMA - Right/Cheek - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.671 V/m

Peak SAR (extrapolated) = 1.223 mW/g

SAR(1 g) = 0.833 mW/g

SAR(10 g) = 0.538 mW/g

Power Drift = -0.19 dB

Maximum value of SAR (measured) = 0.904 mW/g

CDMA - Right/Cheek - Middle/Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.671 V/m

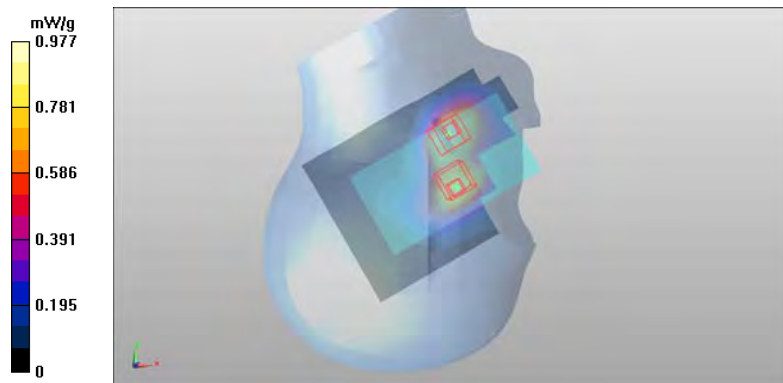
Peak SAR (extrapolated) = 1.099 mW/g

SAR(1 g) = 0.766 mW/g

SAR(10 g) = 0.501 mW/g

Power Drift = -0.19 dB

Maximum value of SAR (measured) = 0.839 mW/g



Date/Time: 2012-07-23 16:13:32

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900 RC3/S055

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes:

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.406$ mho/m; $\epsilon_r = 38.441$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Right/Tilt - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.647 mW/g

CDMA - Right/Tilt - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.983 V/m

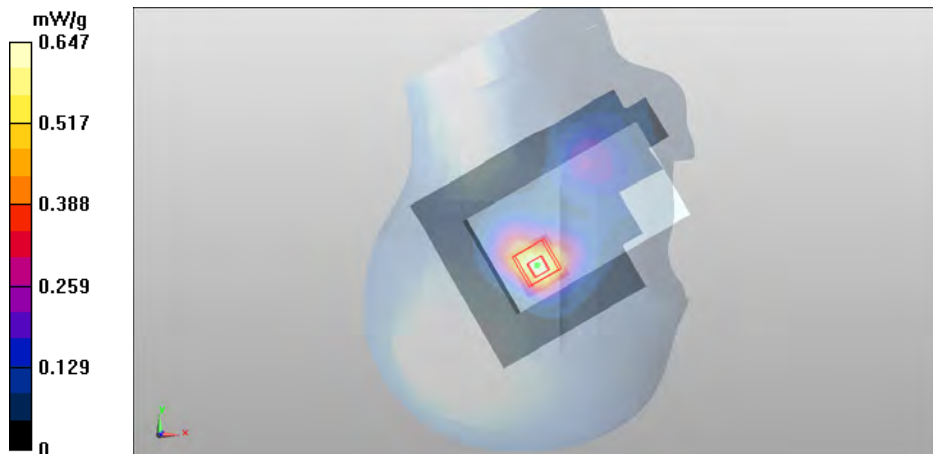
Peak SAR (extrapolated) = 0.793 mW/g

SAR(1 g) = 0.540 mW/g

SAR(10 g) = 0.337 mW/g

Power Drift = 0.28 dB

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



Date/Time: 2012-07-27 14:02:33

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138245/D2

Communication System: GSM1900

Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium: HSL1900; Medium Notes: T=22.0

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.439$ mho/m; $\epsilon_r = 39.548$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

GSM - Left/Cheek - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.611 mW/g

GSM - Left/Cheek - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.753 V/m

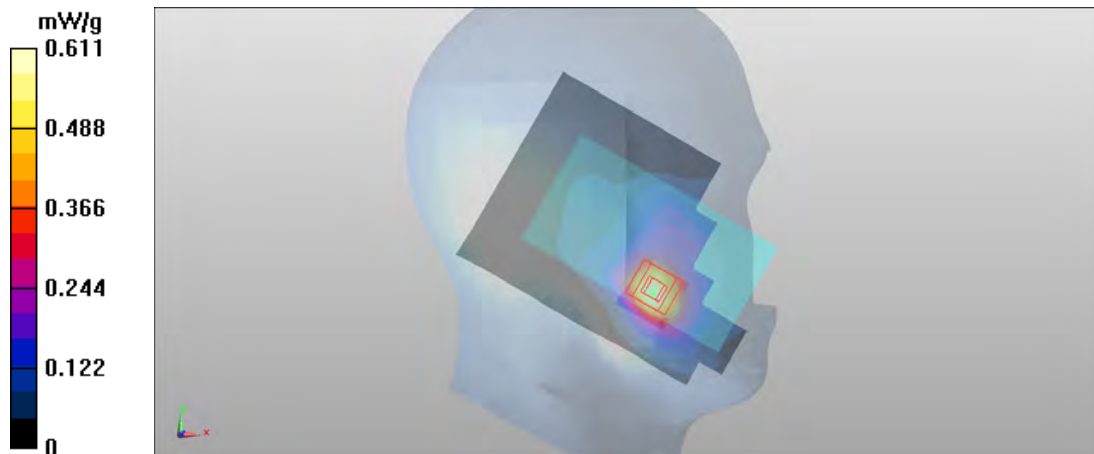
Peak SAR (extrapolated) = 0.743 mW/g

SAR(1 g) = 0.504 mW/g

SAR(10 g) = 0.310 mW/g

Power Drift = -0.15 dB

Maximum value of SAR (measured) = 0.551 mW/g



Date/Time: 2012-07-27 16:31:45

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138245/D2

Communication System: 2-slot GPRS1900

Frequency: 1850.2 MHz; Duty Cycle: 1:4.19952

Medium: HSL1900; Medium Notes:

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.415$ mho/m; $\epsilon_r = 39.684$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

2-slot GPRS - Left/Cheek - Low/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.739 mW/g

2-slot GPRS - Left /Cheek - Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.276 V/m

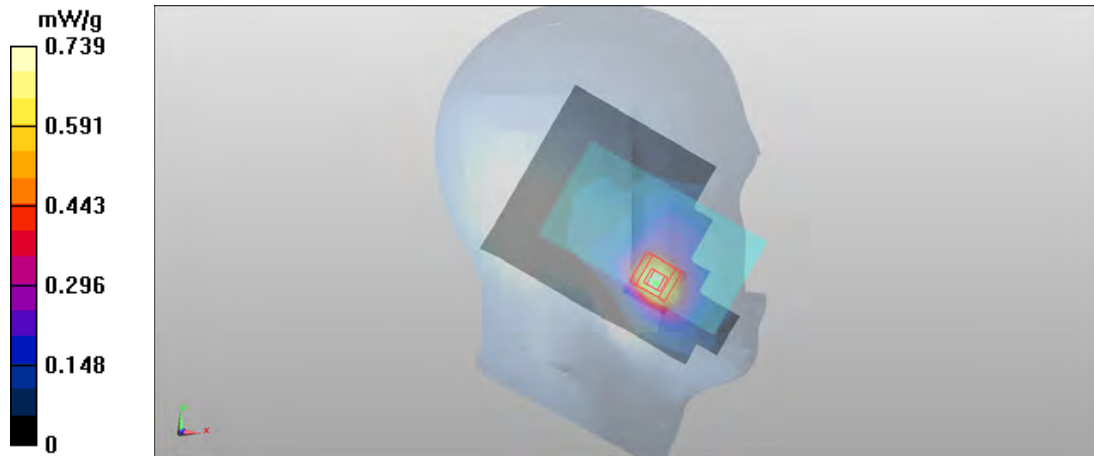
Peak SAR (extrapolated) = 0.874 mW/g

SAR(1 g) = 0.608 mW/g

SAR(10 g) = 0.380 mW/g

Power Drift = -0.17 dB

Maximum value of SAR (measured) = 0.665 mW/g



Date/Time: 2012-07-27 16:12:34

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138245/D2

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium: HSL1900; Medium Notes:

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.439$ mho/m; $\epsilon_r = 39.548$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

2-slot GPRS - Left /Tilt - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.243 mW/g

2-slot GPRS - Left /Tilt - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.285 V/m

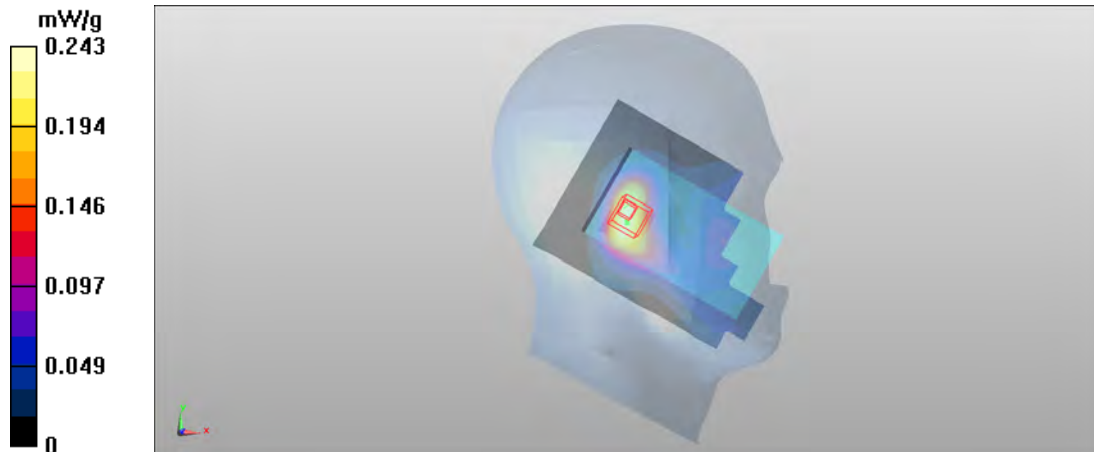
Peak SAR (extrapolated) = 0.308 mW/g

SAR(1 g) = 0.205 mW/g

SAR(10 g) = 0.129 mW/g

Power Drift = -0.03 dB

Maximum value of SAR (measured) = 0.219 mW/g



Date/Time: 2012-07-27 18:24:16

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138245/D2

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium: HSL1900; Medium Notes: T=22.0

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.439$ mho/m; $\epsilon_r = 39.548$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

2-slot GPRS – Right/Cheek - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.450 mW/g

2-slot GPRS - Right/Cheek - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.371 V/m

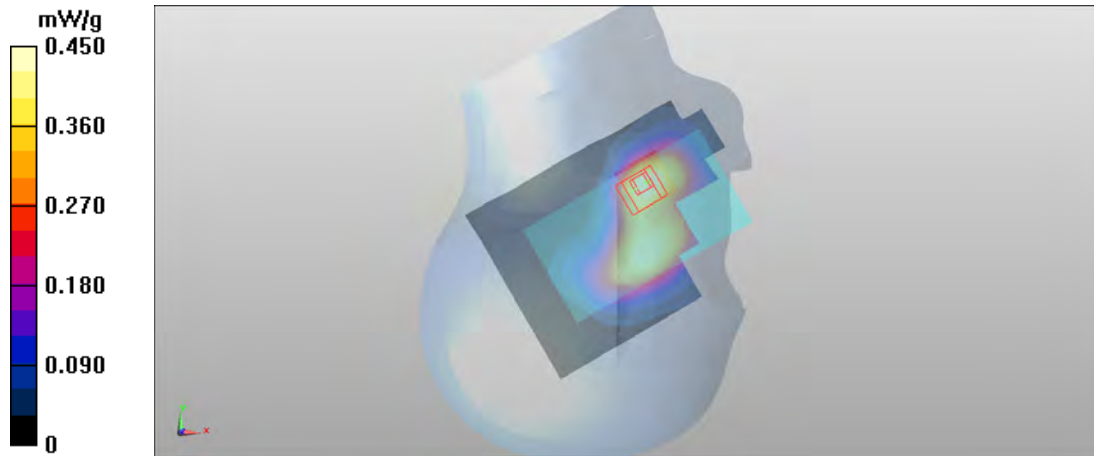
Peak SAR (extrapolated) = 0.591 mW/g

SAR(1 g) = 0.400 mW/g

SAR(10 g) = 0.261 mW/g

Power Drift = 0.46 dB

Maximum value of SAR (measured) = 0.426 mW/g



Date/Time: 2012-07-27 18:59:58

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138245/D2

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium: HSL1900; Medium Notes: T=22.0

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.439$ mho/m; $\epsilon_r = 39.548$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

2-slot GPRS - Right/Tilt - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

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

2-slot GPRS - Right/Tilt - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.805 V/m

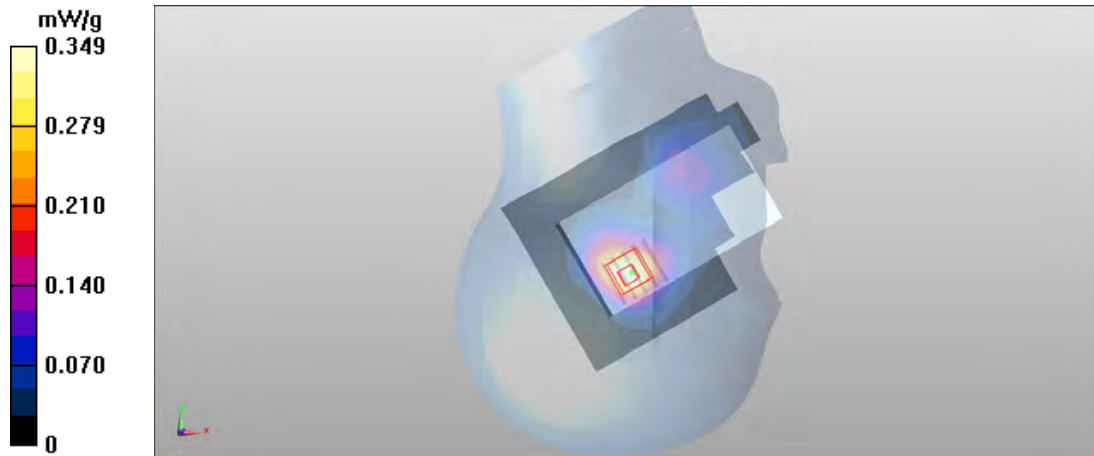
Peak SAR (extrapolated) = 0.567 mW/g

SAR(1 g) = 0.304 mW/g

SAR(10 g) = 0.186 mW/g

Power Drift = -0.15 dB

Maximum value of SAR (measured) = 0.327 mW/g



Date/Time: 2012-07-27 15:12:44

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138245/D2

Communication System: 3-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:2.80027

Medium: HSL1900; Medium Notes:

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.439$ mho/m; $\epsilon_r = 39.548$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

3-slot GPRS - Left/Cheek - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.689 mW/g

3-slot GPRS - Left /Cheek - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.749 V/m

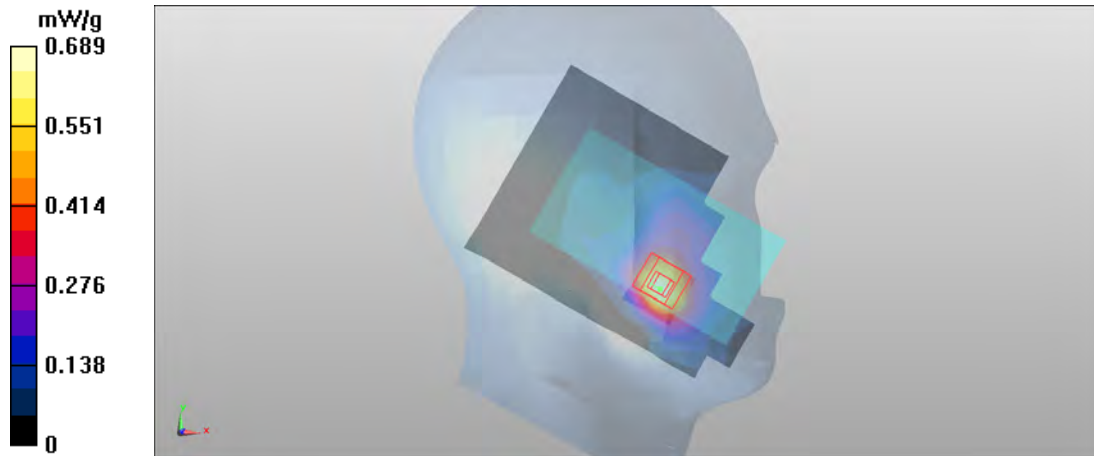
Peak SAR (extrapolated) = 0.795 mW/g

SAR(1 g) = 0.554 mW/g

SAR(10 g) = 0.346 mW/g

Power Drift = -0.08 dB

Maximum value of SAR (measured) = 0.596 mW/g



Date/Time: 2012-07-27 15:40:54

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138245/D2

Communication System: 4-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:2.09991

Medium: HSL1900; Medium Notes:

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.439$ mho/m; $\epsilon_r = 39.548$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

4-slot GPRS - Left /Cheek - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.706 mW/g

4-slot GPRS - Left /Cheek - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.859 V/m

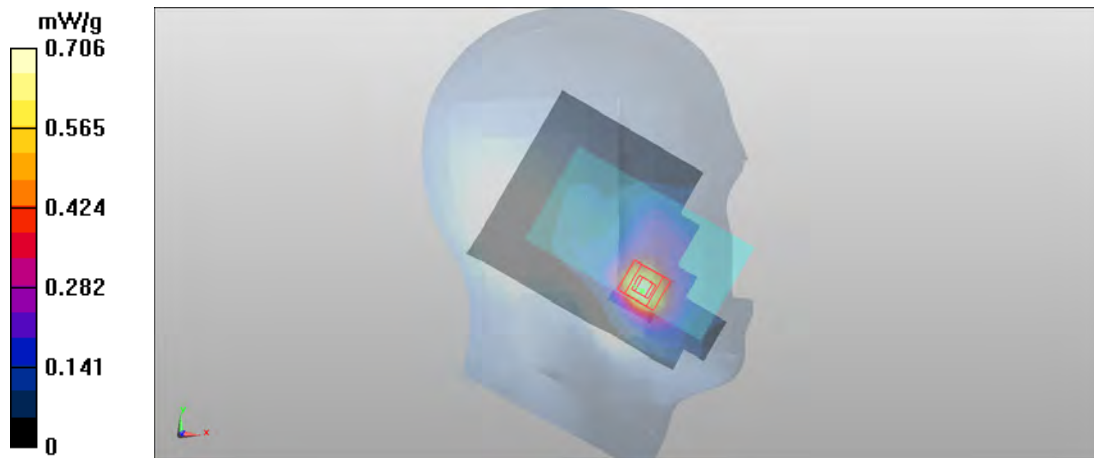
Peak SAR (extrapolated) = 0.820 mW/g

SAR(1 g) = 0.569 mW/g

SAR(10 g) = 0.349 mW/g

Power Drift = -0.00 dB

Maximum value of SAR (measured) = 0.611 mW/g



Date/Time: 2012-07-30 19:40:06

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138245/D2

Communication System: 2-slot 8PSK EGPRS1900

Frequency: 1850.2 MHz; Duty Cycle: 1:4.19952

Medium: HSL1900; Medium Notes: T=22.4

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.427$ mho/m; $\epsilon_r = 39.439$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

2-slot 8PSK EGPRS - Left/Cheek - Low/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.466 mW/g

2-slot 8PSK EGPRS - Left /Cheek - Low/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.987 V/m

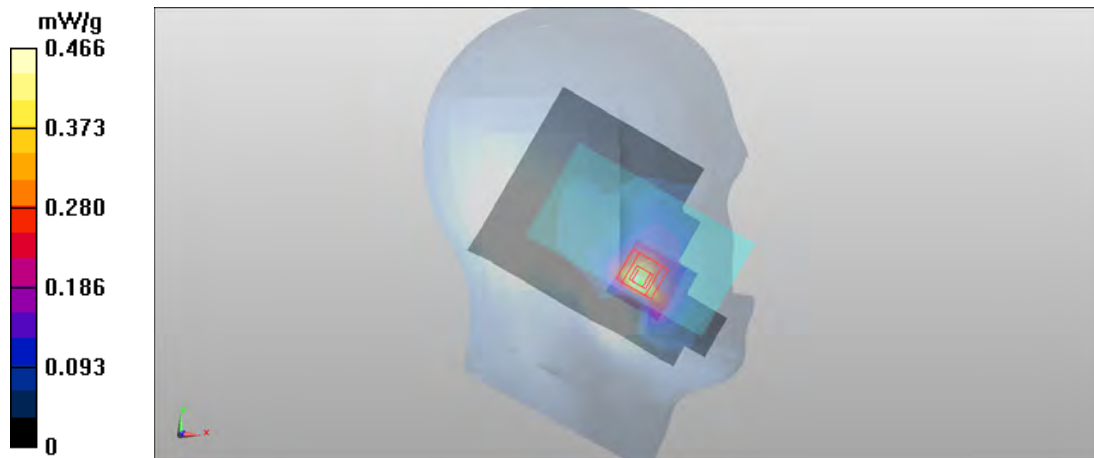
Peak SAR (extrapolated) = 0.457 mW/g

SAR(1 g) = 0.315 mW/g

SAR(10 g) = 0.195 mW/g

Power Drift = -0.32 dB

Maximum value of SAR (measured) = 0.331 mW/g



Date/Time: 2012-07-23 20:30:29

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes:

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.406$ mho/m; $\epsilon_r = 38.441$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA - Left/Cheek - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

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

WCDMA - Left/Cheek - Middle/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.357 V/m

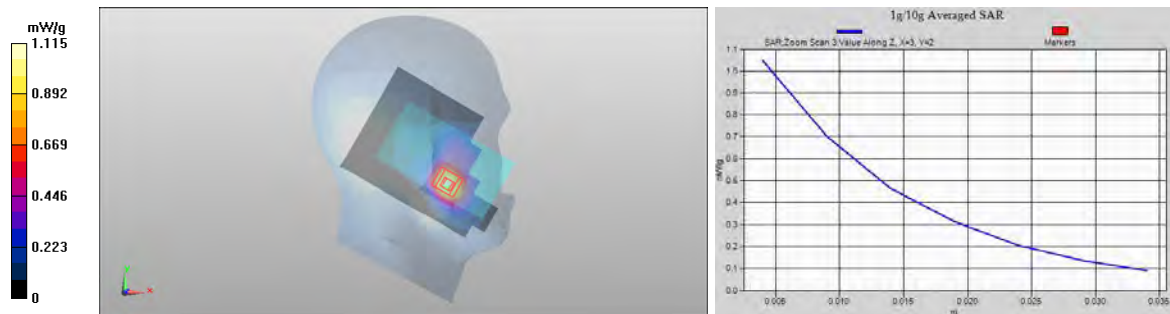
Peak SAR (extrapolated) = 1.428 mW/g

SAR(1 g) = 0.987 mW/g

SAR(10 g) = 0.609 mW/g

Power Drift = -0.00 dB

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



Date/Time: 2012-07-21 18:03:35

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes:

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.432$ mho/m; $\epsilon_r = 38.639$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA - Left/Tilt - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.401 mW/g

WCDMA - Left/Tilt - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.695 V/m

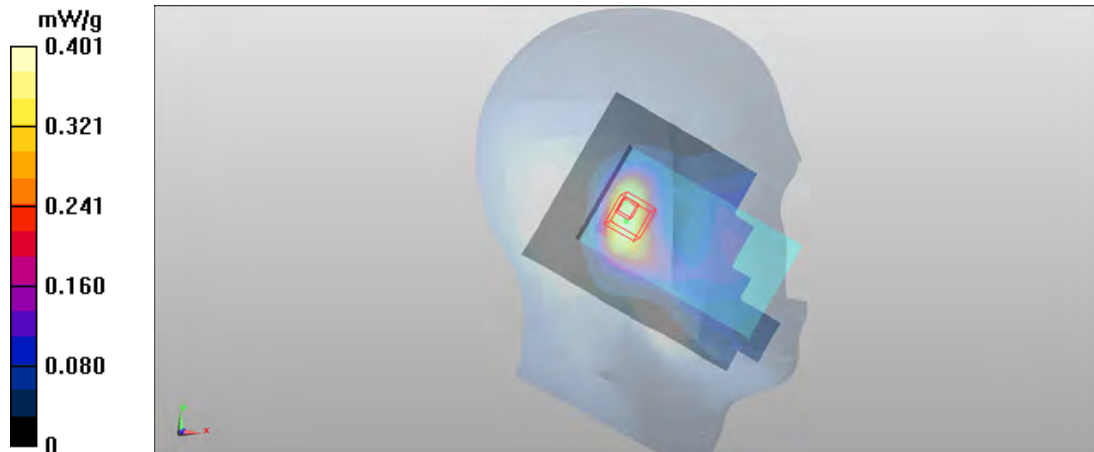
Peak SAR (extrapolated) = 0.518 mW/g

SAR(1 g) = 0.344 mW/g

SAR(10 g) = 0.213 mW/g

Power Drift = -0.03 dB

Maximum value of SAR (measured) = 0.365 mW/g



Date/Time: 2012-07-21 18:48:20

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes:

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.432$ mho/m; $\epsilon_r = 38.639$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA – Right/Cheek - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.762 mW/g

WCDMA – Right/Cheek - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.474 V/m

Peak SAR (extrapolated) = 1.017 mW/g

SAR(1 g) = 0.691 mW/g

SAR(10 g) = 0.446 mW/g

Power Drift = 0.45 dB

Maximum value of SAR (measured) = 0.735 mW/g

WCDMA - Right/Cheek - Middle/Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

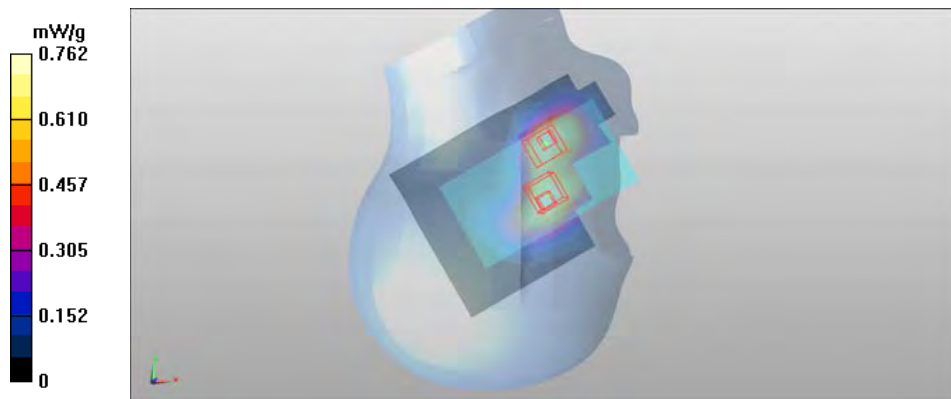
Reference Value = 8.474 V/m

Peak SAR (extrapolated) = 0.987 mW/g

SAR(1 g) = 0.689 mW/g

SAR(10 g) = 0.458 mW/g

Power Drift = 0.45 dB



Date/Time: 2012-07-21 19:15:42

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes:

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.432$ mho/m; $\epsilon_r = 38.639$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA - Right/Tilt - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.579 mW/g

WCDMA - Right/Tilt - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.746 V/m

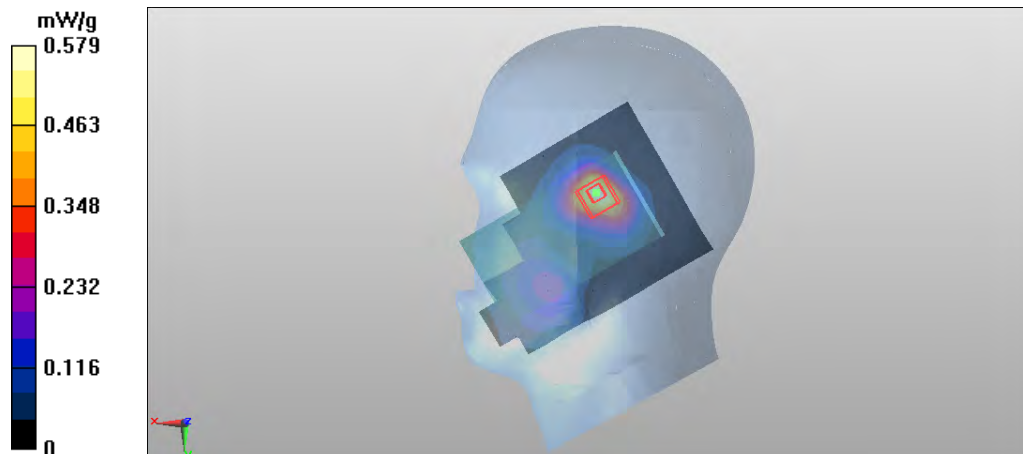
Peak SAR (extrapolated) = 0.721 mW/g

SAR(1 g) = 0.490 mW/g

SAR(10 g) = 0.304 mW/g

Power Drift = 0.12 dB

Maximum value of SAR (measured) = 0.538 mW/g



Date/Time: 2012-07-20 11:54:41

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: $t = 21.0\text{ }^{\circ}\text{C}$

Medium parameters used: $f = 2437\text{ MHz}$; $\sigma = 1.783\text{ mho/m}$; $\epsilon_r = 38.026$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN - Left/Cheek - Middle/Area Scan (121x181x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.259 mW/g

WLAN - Left/Cheek - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.238 V/m

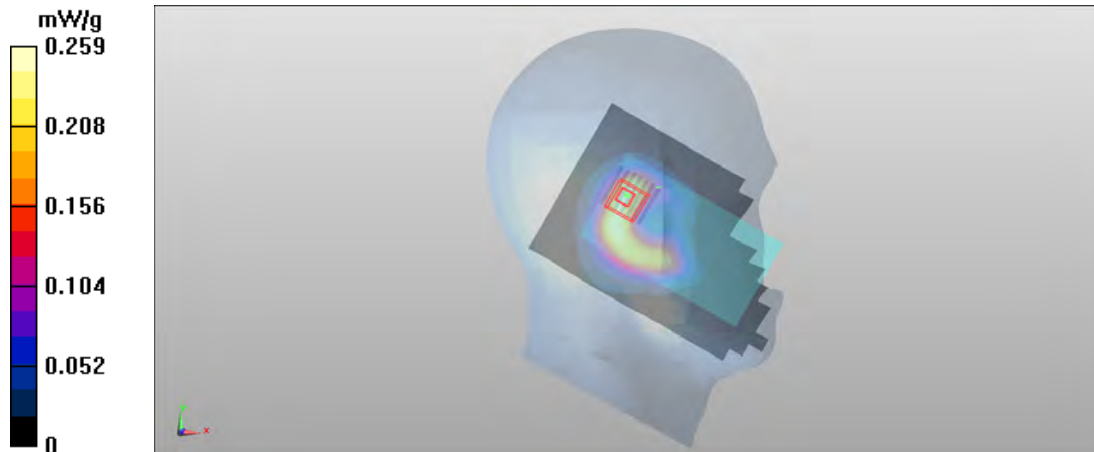
Peak SAR (extrapolated) = 0.406 mW/g

SAR(1 g) = 0.227 mW/g

SAR(10 g) = 0.123 mW/g

Power Drift = 0.20 dB

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



Date/Time: 2012-07-20 12:23:06

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: $t = 21.0$ C

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.783$ mho/m; $\epsilon_r = 38.026$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN - Left/Tilt - Middle/Area Scan (121x181x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.283 mW/g

WLAN - Left/Tilt - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 11.239 V/m

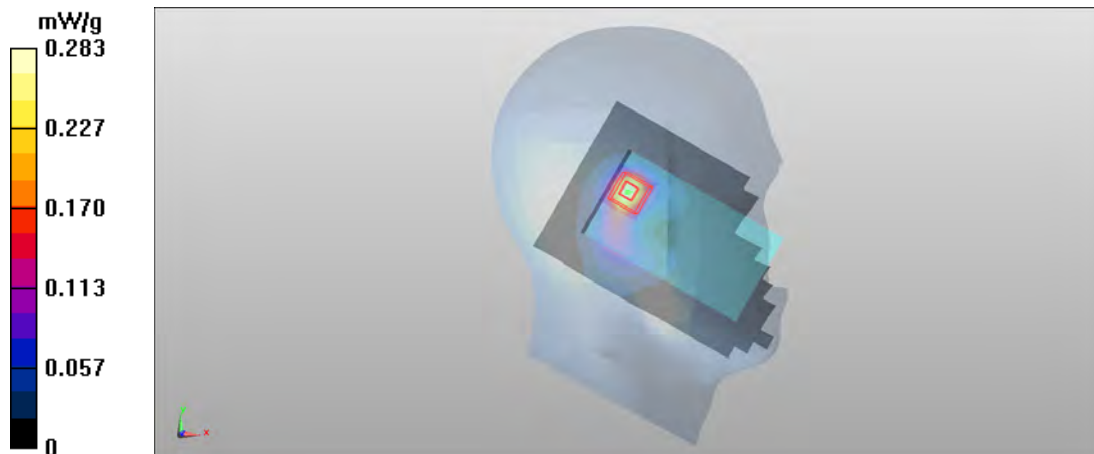
Peak SAR (extrapolated) = 0.472 mW/g

SAR(1 g) = 0.245 mW/g

SAR(10 g) = 0.122 mW/g

Power Drift = 0.05 dB

Maximum value of SAR (measured) = 0.277 mW/g



Date/Time: 2012-07-20 15:34:06

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL 2450; Medium Notes: t= 21.0 C

Medium parameters used: f = 2462 MHz; σ = 1.809 mho/m; ϵ_r = 37.906; ρ = 1000 kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN – Right/Cheek - High/Area Scan (121x181x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.744 mW/g

WLAN - Right/Cheek- High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.798 V/m

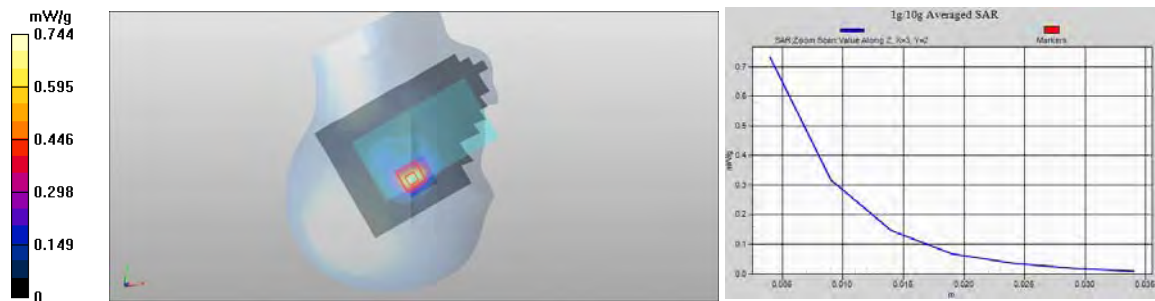
Peak SAR (extrapolated) = 1.538 mW/g

SAR(1 g) = 0.639 mW/g

SAR(10 g) = 0.286 mW/g

Power Drift = -0.11 dB

Maximum value of SAR (measured) = 0.731 mW/g



Date/Time: 2012-07-20 13:41:18

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL 2450; Medium Notes: $t = 21.0$ C

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.783$ mho/m; $\epsilon_r = 38.026$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN - Right/Tilt - Middle/Area Scan (121x181x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.193 mW/g

WLAN - Right/Tilt - Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 9.900 V/m

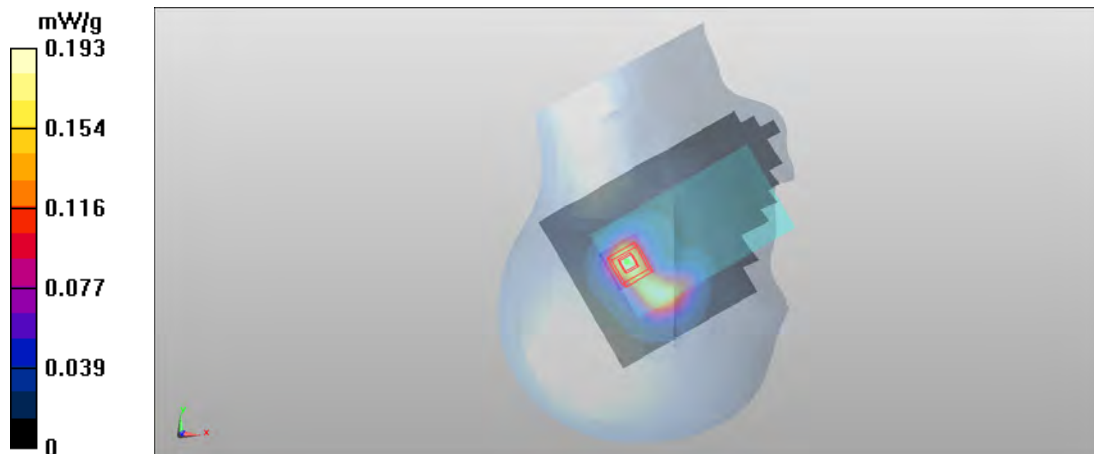
Peak SAR (extrapolated) = 0.309 mW/g

SAR(1 g) = 0.168 mW/g

SAR(10 g) = 0.088 mW/g

Power Drift = -0.18 dB

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



Date/Time: 2012-07-31 19:29:01

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 n-mode

Frequency: 5180 MHz; Duty Cycle: 1:1

Medium: HSL5200; Medium Notes: 20.8 C

Medium parameters used: $f = 5180$ MHz; $\sigma = 4.566$ mho/m; $\epsilon_r = 34.991$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(4.81, 4.81, 4.81); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM1; Type: SAM; Serial: TP-1126
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WLAN - Left/Cheek - Channel 36/Area Scan (121x181x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.231 mW/g

WLAN - Left/Cheek - Channel 36/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.954 V/m

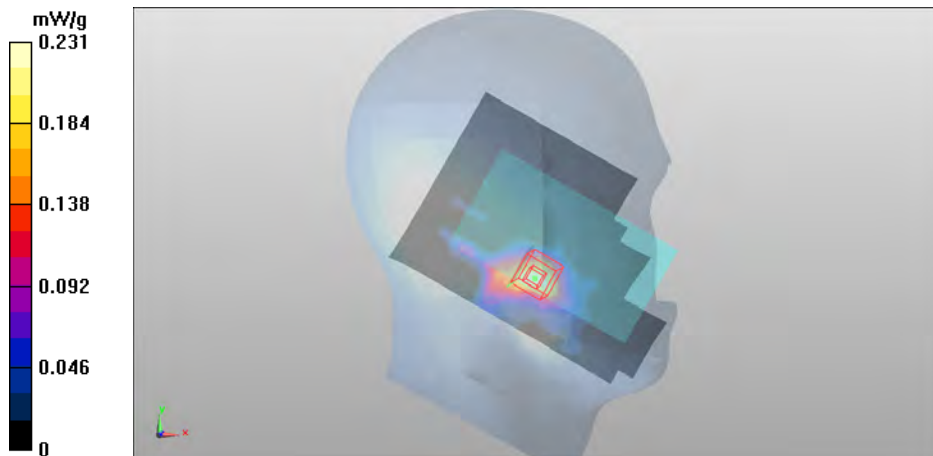
Peak SAR (extrapolated) = 0.516 mW/g

SAR(1 g) = 0.133 mW/g

SAR(10 g) = 0.049 mW/g

Power Drift = 1.10 dB

Maximum value of SAR (measured) = 0.242 mW/g



Date/Time: 2012-08-01 20:04:20

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode

Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5000; Medium Notes: $t = 21.0$ C

Medium parameters used: $f = 5500$ MHz; $\sigma = 4.894$ mho/m; $\epsilon_r = 34.634$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(4.6, 4.6, 4.6); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM1; Type: SAM; Serial: TP-1126
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WLAN - Left/Tilt - Channel 100/Area Scan (121x181x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.105 mW/g

WLAN - Left/Tilt - Channel 100/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.799 V/m

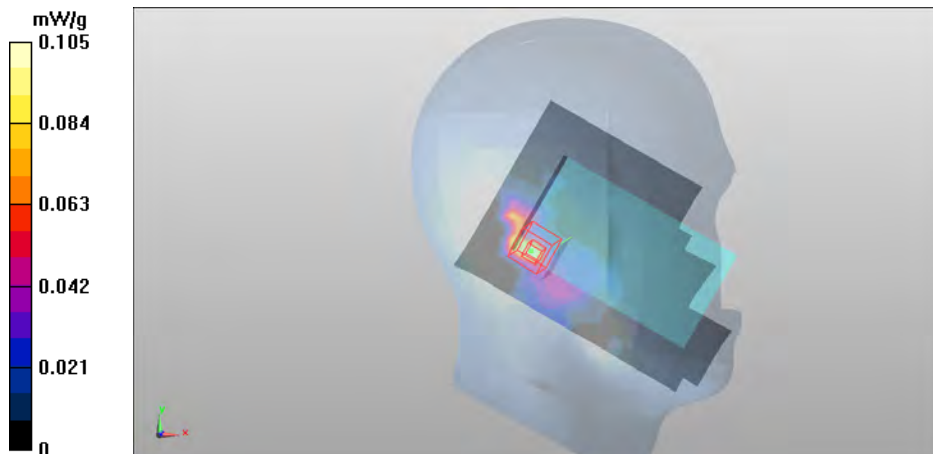
Peak SAR (extrapolated) = 0.215 mW/g

SAR(1 g) = 0.051 mW/g

SAR(10 g) = 0.016 mW/g

Power Drift = -0.18 dB

Maximum value of SAR (measured) = 0.104 mW/g



Date/Time: 2012-08-01 12:23:12

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode

Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: HSL5200; Medium Notes: 20.8 C

Medium parameters used: $f = 5280$ MHz; $\sigma = 4.672$ mho/m; $\epsilon_r = 34.839$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(4.57, 4.57, 4.57); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM1; Type: SAM; Serial: TP-1126
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN - Right/Cheek - Channel 56/Area Scan (121x181x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.455 mW/g

WLAN - Right/Cheek - Channel 56/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.463 V/m

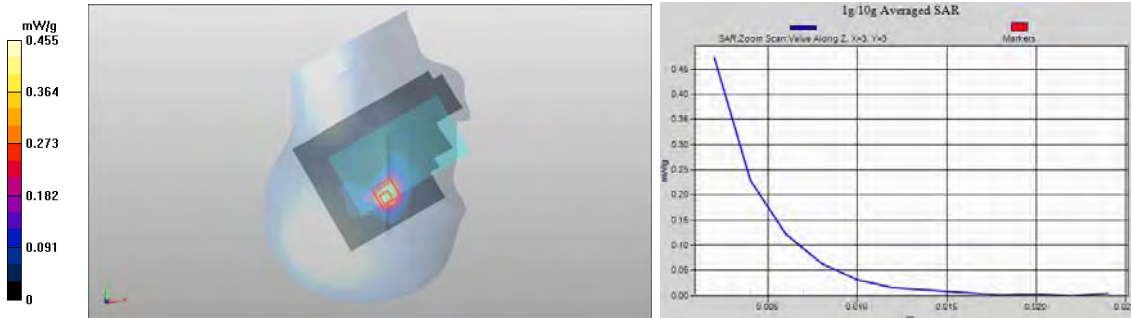
Peak SAR (extrapolated) = 1.110 mW/g

SAR(1 g) = 0.259 mW/g

SAR(10 g) = 0.097 mW/g

Power Drift = -0.03 dB

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



Date/Time: 2012-08-02 17:03:36

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode

Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5000; Medium Notes: $t = 21.4$ C

Medium parameters used: $f = 5500$ MHz; $\sigma = 4.731$ mho/m; $\epsilon_r = 34.468$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(4.6, 4.6, 4.6); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM1; Type: SAM; Serial: TP-1126
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN - Right/Tilt - Channel 100/Area Scan (121x181x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.196 mW/g

WLAN - Right/Tilt - Channel 100/Zoom Scan (8x8x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 5.136 V/m

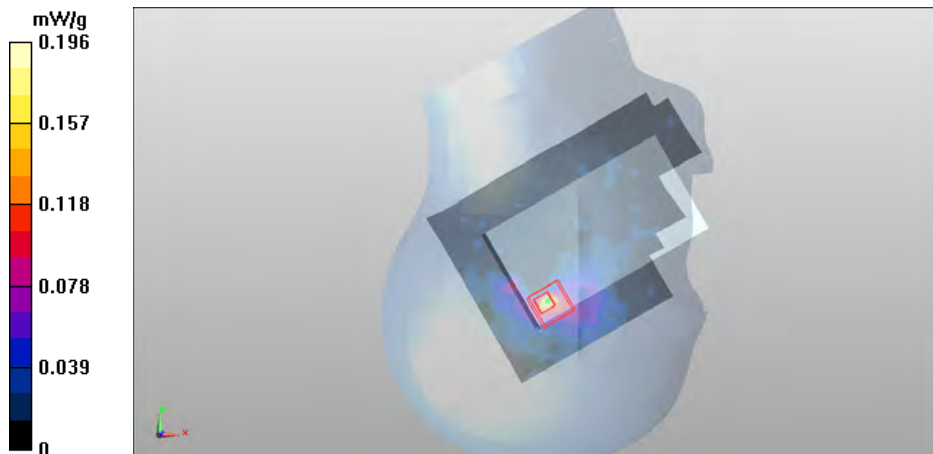
Peak SAR (extrapolated) = 0.323 mW/g

SAR(1 g) = 0.070 mW/g

SAR(10 g) = 0.021 mW/g

Power Drift = 0.40 dB

Maximum value of SAR (measured) = 0.162 mW/g



Date/Time: 2012-08-02 18:00:00

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 n-mode

Frequency: 5620 MHz; Duty Cycle: 1:1

Medium: HSL5000; Medium Notes: $t = 21.4$ C

Medium parameters used: $f = 5620$ MHz; $\sigma = 4.854$ mho/m; $\epsilon_r = 34.303$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(4.37, 4.37, 4.37); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM1; Type: SAM; Serial: TP-1126
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN - Right/Cheek - Channel 124/Area Scan (121x181x1): Measurement grid: dx=10mm, dy=10mm

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

WLAN - Right/Cheek - Channel 124/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.902 V/m

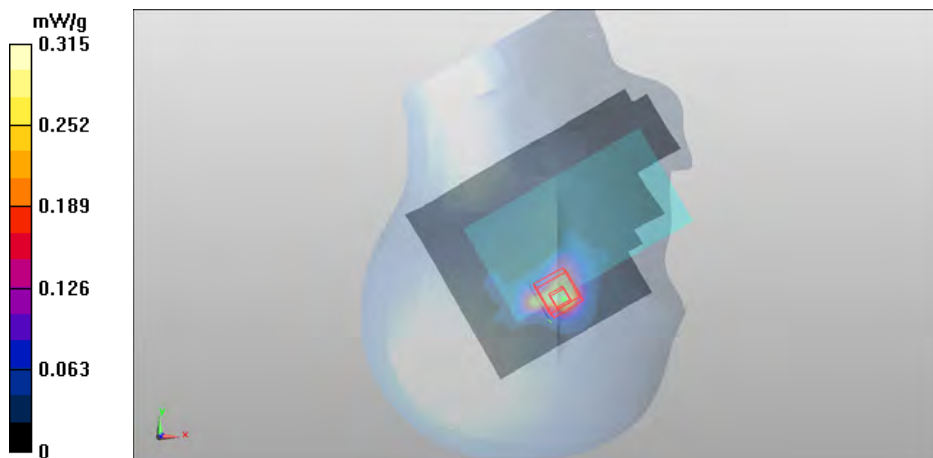
Peak SAR (extrapolated) = 0.634 mW/g

SAR(1 g) = 0.158 mW/g

SAR(10 g) = 0.056 mW/g

Power Drift = -0.05 dB

Maximum value of SAR (measured) = 0.312 mW/g



Date/Time: 2012-07-19 15:19:58

DASY Configuration for LTE - Right/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.932 \text{ mho/m}$; $\epsilon_r = 40.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Probe: ES3DV3 - SN3165; ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP:xxxx

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-07-20 15:34:06

DASY Configuration for WLAN - Right/Cheek- High/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL 2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.809 \text{ mho/m}$; $\epsilon_r = 37.906$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Probe: EX3DV4 - SN3573; ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection)

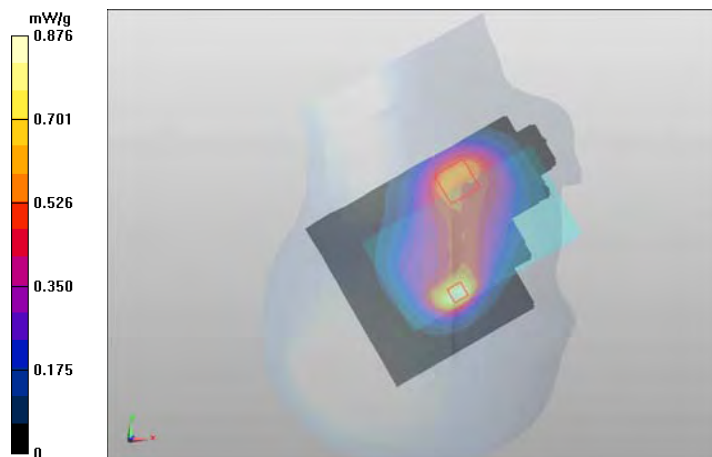
Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018

Measurement SW: DASY52, Version 52.8 (0)

Fast SAR of Combined Scans: SAR(1 g) = 0.750 mW/g; SAR(10 g) = 0.398 mW/g

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



Date/Time: 2012-07-19 19:02:41

DASY Configuration for CDMA - Right/Cheek - Middle/Area Scan:

Test Laboratory: The name of your organization

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055; Frequency: 836.52 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL835 Medium parameters used: $f = 837$ MHz; $\sigma = 0.899$ mho/m; $\epsilon_r = 41.755$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ET3DV6R - SN1399; ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn420; Calibrated: 2011-07-21

Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279

Measurement SW: DASY4, Version 4.7 (80)

Date/Time: 2012-07-20 15:34:06

DASY Configuration for WLAN - Right/Cheek- High/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL 2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.809$ mho/m; $\epsilon_r = 37.906$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: EX3DV4 - SN3573; ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection)

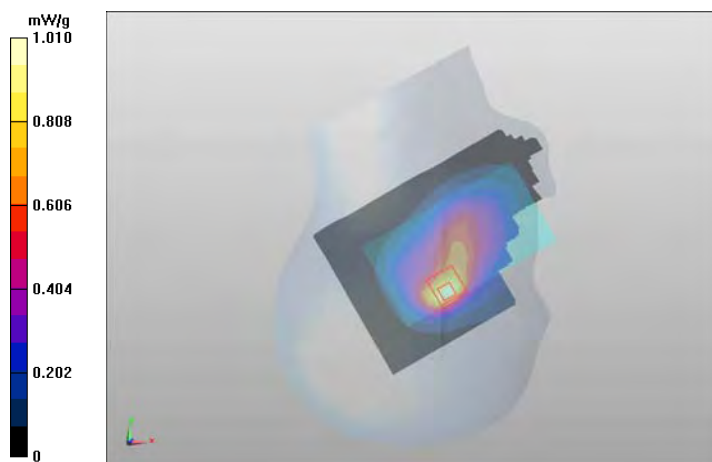
Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018

Measurement SW: DASY52, Version 52.8 (0)

Fast SAR of Combined Scans: SAR(1 g) = 0.878 mW/g; SAR(10 g) = 0.477 mW/g

Maximum value of SAR (interpolated) = 1.01 mW/g



Date/Time: 2012-07-20 15:34:06

DASY Configuration for WLAN - Right/Cheek- High/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL 2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.809$ mho/m; $\epsilon_r = 37.906$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: EX3DV4 - SN3573; ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-07-29 15:44:28

DASY Configuration for 4-slot GPRS - Right/Cheek - High/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850; Frequency: 836.6 MHz; Duty Cycle: 1:2.09991; PMF: 1.44911

Medium: HSL850 Medium parameters used: $f = 837$ MHz; $\sigma = 0.928$ mho/m; $\epsilon_r = 40.694$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ES3DV3 - SN3131; ConvF(5.88, 5.88, 5.88); Calibrated: 2011-09-14;

Sensor-Surface: 4mm (Mechanical Surface Detection)

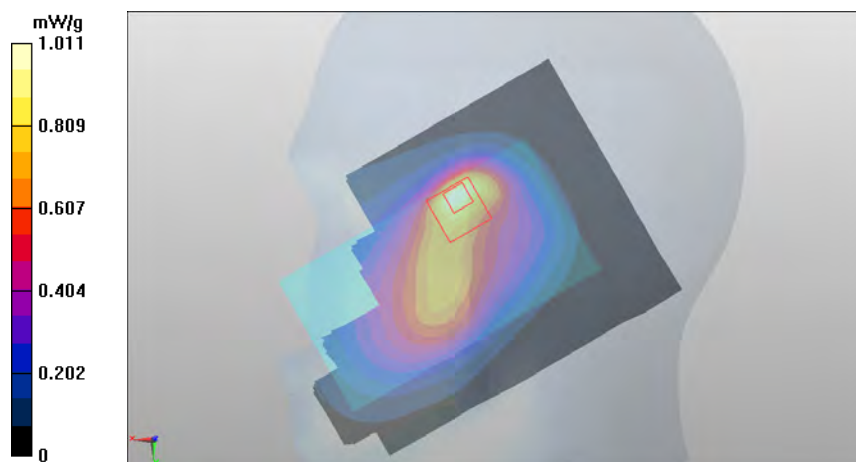
Electronics: DAE4 Sn1316; Calibrated: 2012-02-15

Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179

Measurement SW: DASY52, Version 52.8 (0)

Fast SAR of Combined Scans: SAR(1 g) = 0.878 mW/g; SAR(10 g) = 0.489 mW/g

Maximum value of SAR (interpolated) = 1.01 mW/g



Date/Time: 2012-08-07 17:01:39

DASY Configuration for WCDMA - Right/Cheek - Middle/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850; Frequency: 835 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL900 Medium parameters used: $f = 835$ MHz; $\sigma = 0.886$ mho/m; $\epsilon_r = 40.934$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ET3DV6R - SN1399; ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn756; Calibrated: 2011-08-26

Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-20 15:34:06

DASY Configuration for WLAN - Right/Cheek- High/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL 2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.809$ mho/m; $\epsilon_r = 37.906$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: EX3DV4 - SN3573; ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection)

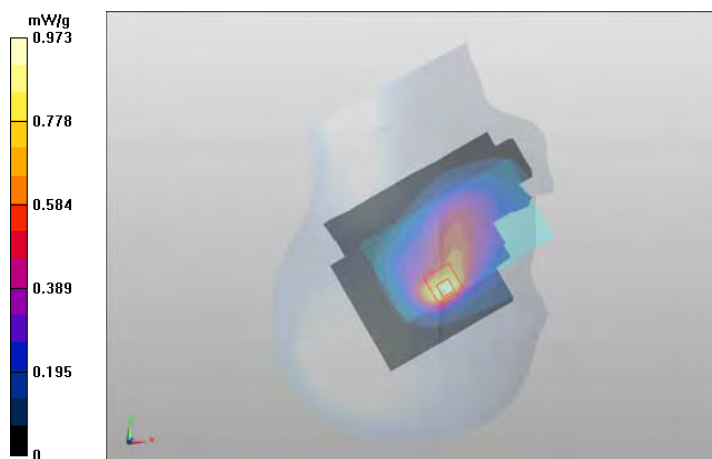
Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018

Measurement SW: DASY52, Version 52.8 (0)

Fast SAR of Combined Scans: SAR(1 g) = 0.839 mW/g; SAR(10 g) = 0.448 mW/g

Maximum value of SAR (interpolated) = 0.973 mW/g



Date/Time: 2012-07-18 11:59:02

DASY Configuration for CDMA - Right/Cheek - Middle/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900 RC3/S055; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.449$ mho/m; $\epsilon_r = 38.967$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ET3DV6 - SN1739; ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 2011-07-21

Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-20 15:34:06

DASY Configuration for WLAN - Right/Cheek- High/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL 2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.809$ mho/m; $\epsilon_r = 37.906$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: EX3DV4 - SN3573; ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection)

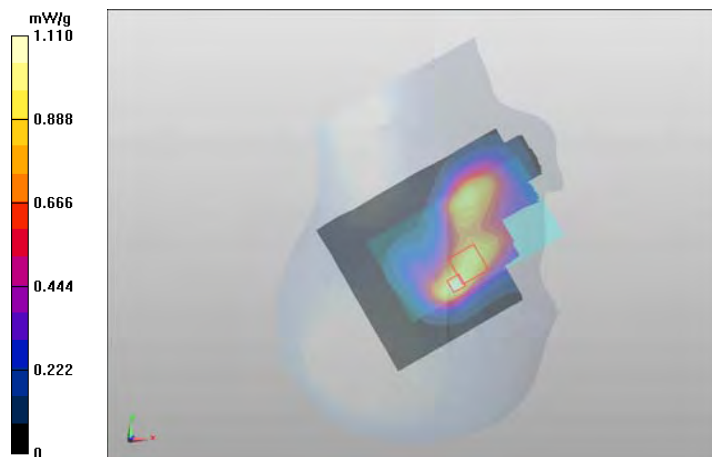
Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018

Measurement SW: DASY52, Version 52.8 (0)

Fast SAR of Combined Scans: SAR(1 g) = 0.963 mW/g; SAR(10 g) = 0.524 mW/g

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



Date/Time: 2012-07-20 15:34:06, Date/Time: 2012-07-27 18:24:16

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1, Serial: C1A1383245/D2

Communication System: WLAN2450 b-mode, Communication System: 2-slot GPRS1900

Frequency: 2462 MHz; Frequency: 1880 MHz; Duty Cycle: 1:1, Duty Cycle: 1:4.19952

Medium: HSL 2450, Medium: HSL1900; Medium Notes: $t = 21.0$ C, Medium Notes: $T = 22.0$

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.81$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ kg/m³, Medium parameters used:
 $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

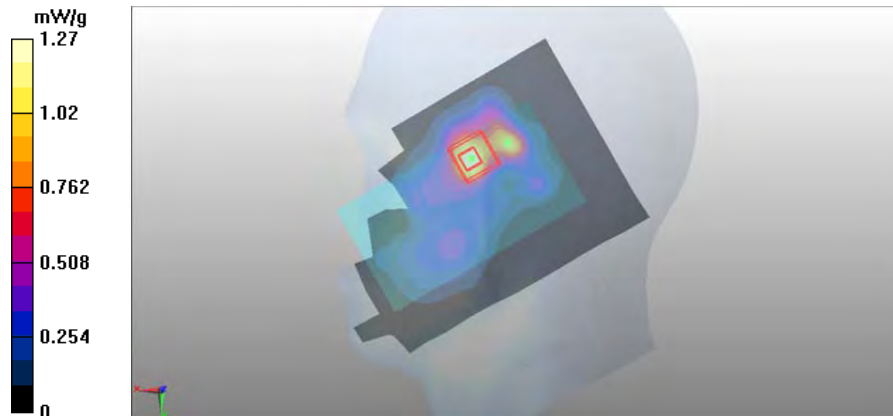
- Probe: EX3DV4 - SN3573, Probe: ET3DV6 - SN1739
- ConvF(6.52, 6.52, 6.52), ConvF(5.07, 5.07, 5.07); Calibrated: 2012-02-23, Calibrated: 2011-09-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793, Electronics: DAE4 Sn756; Calibrated: 2011-09-16, Calibrated: 2011-08-26
- Phantom: SAM 4, Phantom: SAM 3; Type: Twin SAM 040 CA, Type: QD000P40CD; Serial: TP-1018, Serial: TP1630
- Measurement SW: DASY52, V52.8 Build 0, Measurement SW: DASY52, V52.8 Build 1; SEMCAD X Version 14.0 Build 61

WLAN - Right/Cheek- High/Area Scan (13x19x1): Measurement grid: dx=10mm, dy=10mm

2-slot GPRS - Right/Cheek - Middle/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Motorola Fast SAR of Combined Scans: SAR(1 g) = 0.931 mW/g; SAR(10 g) = 0.386 mW/g

Maximum value of SAR (measured) = 1.27 mW/g



Date/Time: 2012-07-21 18:48:20

DASY Configuration for WCDMA - Right/Cheek - Middle/Area Scan:

Test Laboratory: Nokia R&D SAR Lab

Type: RM-845; Serial: C1A138373/C1

Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.432$ mho/m; $\epsilon_r = 38.639$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ET3DV6 - SN1739; ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn756; Calibrated: 2011-08-26

Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-20 15:34:06

DASY Configuration for WLAN - Right/Cheek- High/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL 2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.809$ mho/m; $\epsilon_r = 37.906$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: EX3DV4 - SN3573; ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection)

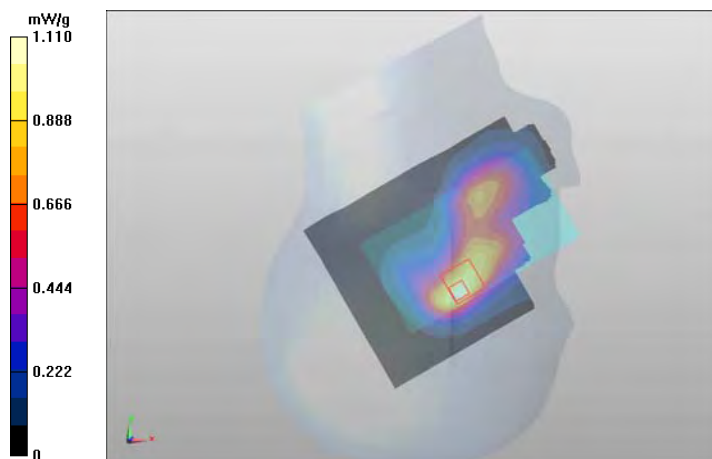
Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018

Measurement SW: DASY52, Version 52.8 (0)

Fast SAR of Combined Scans: SAR(1 g) = 0.964 mW/g; SAR(10 g) = 0.514 mW/g

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



Date/Time: 2012-08-01 12:23:12

DASY Configuration for WLAN - Right/Cheek - Channel 56/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode; Frequency: 5280 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL5200 Medium parameters used: $f = 5280$ MHz; $\sigma = 4.672$ mho/m; $\epsilon_r = 34.839$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: EX3DV4 - SN3834; ConvF(4.57, 4.57, 4.57); Calibrated: 07-Feb-12;
Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn1213; Calibrated: 14-Feb-12
Phantom: SAM1; Type: SAM; Serial: TP-1126
Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-19 15:19:58

DASY Configuration for LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

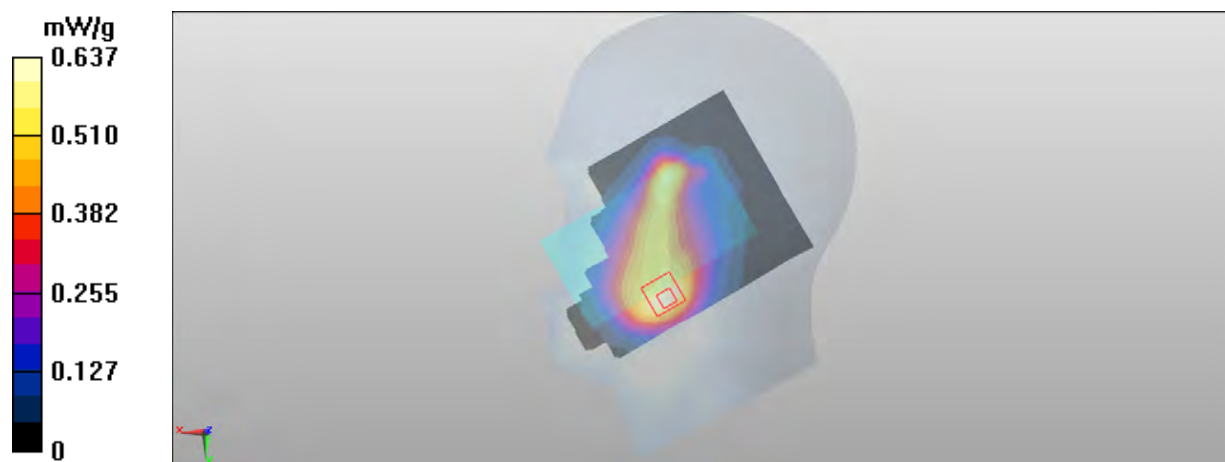
Medium: HSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ES3DV3 - SN3165; ConvF(6.13, 6.13, 6.13); Calibrated: 21-Feb-12;
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1309; Calibrated: 11-Jan-12
Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP:xxxx
Measurement SW: DASY52, Version 52.8 (0)

Fast SAR of Combined Scans: SAR(1 g) = 0.581 mW/g; SAR(10 g) = 0.397 mW/g

Maximum value of SAR (interpolated) = 0.637 mW/g



Date/Time: 2012-07-19 18:15:27

DASY Configuration for CDMA - Left/Cheek - Middle/Area Scan:

Test Laboratory: The name of your organization

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055; Frequency: 836.52 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL835 Medium parameters used: $f = 837$ MHz; $\sigma = 0.899$ mho/m; $\epsilon_r = 41.755$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: ET3DV6R - SN1399; ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn420; Calibrated: 2011-07-21

Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279

Measurement SW: DASY4, Version 4.7 (80)

Date/Time: 2012-07-31 19:29:01

DASY Configuration for WLAN - Left/Cheek - Channel 36/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode; Frequency: 5180 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL5200 Medium parameters used: $f = 5180$ MHz; $\sigma = 4.566$ mho/m; $\epsilon_r = 34.991$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: EX3DV4 - SN3834; ConvF(4.81, 4.81, 4.81); Calibrated: 2012-02-07;

Sensor-Surface: 2mm (Mechanical Surface Detection)

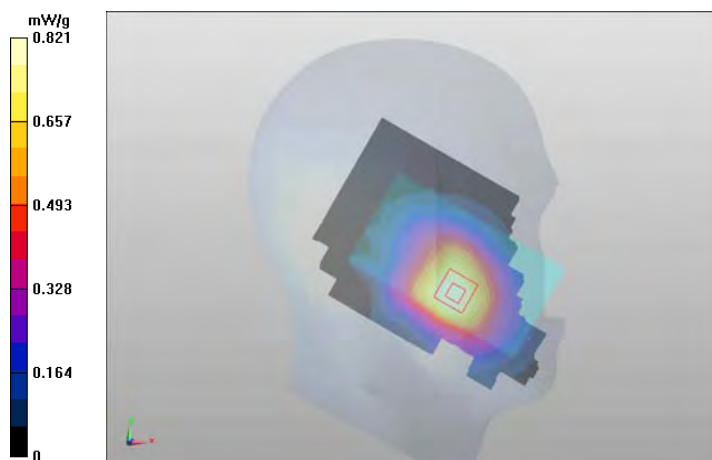
Electronics: DAE4 Sn1213; Calibrated: 2012-02-14

Phantom: SAM1; Type: SAM; Serial: TP-1126

Measurement SW: DASY52, Version 52.8 (1)

Fast SAR of Combined Scans: SAR(1 g) = 0.734 mW/g; SAR(10 g) = 0.502 mW/g

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



Date/Time: 2012-08-07 16:44:43

DASY Configuration for 4-slot GPRS - Left/Cheek - High/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850; Frequency: 848.8 MHz; Duty Cycle: 1:2.09991; PMF: 1.44911

Medium: HSL850 Medium parameters used: $f = 849$ MHz; $\sigma = 0.922$ mho/m; $\epsilon_r = 40.125$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: ES3DV3 - SN3131; ConvF(5.88, 5.88, 5.88); Calibrated: 2011-09-14;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1316; Calibrated: 2012-02-15

Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1179

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-07-31 19:29:01

DASY Configuration for WLAN - Left/Cheek - Channel 36/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode; Frequency: 5180 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL5200 Medium parameters used: $f = 5180$ MHz; $\sigma = 4.566$ mho/m; $\epsilon_r = 34.991$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: EX3DV4 - SN3834; ConvF(4.81, 4.81, 4.81); Calibrated: 2012-02-07;

Sensor-Surface: 2mm (Mechanical Surface Detection)

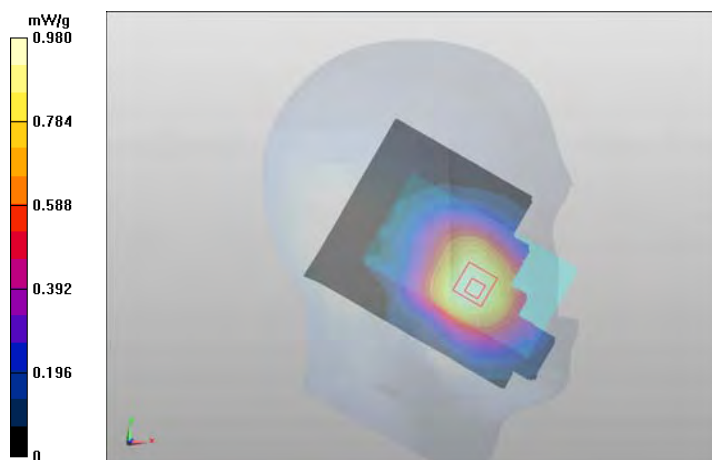
Electronics: DAE4 Sn1213; Calibrated: 2012-02-14

Phantom: SAM1; Type: SAM; Serial: TP-1126

Measurement SW: DASY52, Version 52.8 (1)

Fast SAR of Combined Scans: SAR(1 g) = 0.901 mW/g; SAR(10 g) = 0.631 mW/g

Maximum value of SAR (interpolated) = 0.980 mW/g



Date/Time: 2012-08-07 12:48:41

DASY Configuration for WCDMA - Left/Cheek - Middle/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850; Frequency: 835 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL900 Medium parameters used: $f = 835$ MHz; $\sigma = 0.886$ mho/m; $\epsilon_r = 40.934$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: ET3DV6R - SN1399; ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn756; Calibrated: 2011-08-26

Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-31 19:29:01

DASY Configuration for WLAN - Left/Cheek - Channel 36/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode; Frequency: 5180 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL5200 Medium parameters used: $f = 5180$ MHz; $\sigma = 4.566$ mho/m; $\epsilon_r = 34.991$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: EX3DV4 - SN3834; ConvF(4.81, 4.81, 4.81); Calibrated: 2012-02-07;

Sensor-Surface: 2mm (Mechanical Surface Detection)

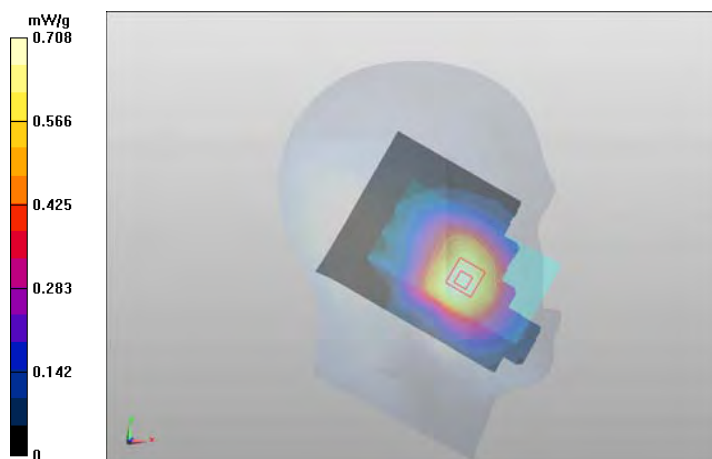
Electronics: DAE4 Sn1213; Calibrated: 2012-02-14

Phantom: SAM1; Type: SAM; Serial: TP-1126

Measurement SW: DASY52, Version 52.8 (1)

Fast SAR of Combined Scans: SAR(1 g) = 0.635 mW/g; SAR(10 g) = 0.441 mW/g

Maximum value of SAR (interpolated) = 0.708 mW/g



Date/Time: 2012-07-23 17:53:01

DASY Configuration for CDMA - Left/Cheek - Low/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1900 Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.383$ mho/m; $\epsilon_r = 38.596$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: ET3DV6 - SN1739; ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn756; Calibrated: 2011-08-26
Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630
Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-31 19:29:01

DASY Configuration for WLAN - Left/Cheek - Channel 36/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode; Frequency: 5180 MHz; Duty Cycle: 1:1; PMF: 1

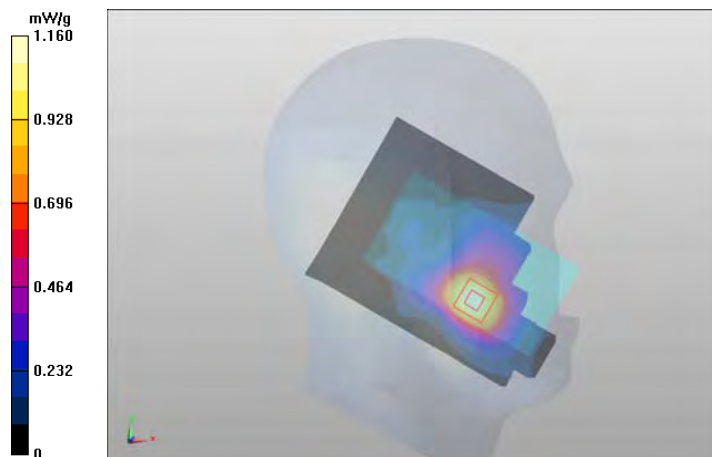
Medium: HSL5200 Medium parameters used: $f = 5180$ MHz; $\sigma = 4.566$ mho/m; $\epsilon_r = 34.991$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: EX3DV4 - SN3834; ConvF(4.81, 4.81, 4.81); Calibrated: 2012-02-07;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
Phantom: SAM1; Type: SAM; Serial: TP-1126
Measurement SW: DASY52, Version 52.8 (1)

Fast SAR of Combined Scans: SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.606 mW/g

Maximum value of SAR (interpolated) = 1.16 mW/g



Date/Time: 2012-07-27 16:31:45

DASY Configuration for 2-slot GPRS - Left/Cheek - Low/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138245/D2

Communication System: 2-slot GPRS1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.19952; PMF: 2.04927

Medium: HSL1900 Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.415$ mho/m; $\epsilon_r = 39.684$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: ET3DV6 - SN1739; ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn756; Calibrated: 2011-08-26

Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-31 19:29:01

DASY Configuration for WLAN - Left/Cheek - Channel 36/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode; Frequency: 5180 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL5200 Medium parameters used: $f = 5180$ MHz; $\sigma = 4.566$ mho/m; $\epsilon_r = 34.991$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: EX3DV4 - SN3834; ConvF(4.81, 4.81, 4.81); Calibrated: 2012-02-07;

Sensor-Surface: 2mm (Mechanical Surface Detection)

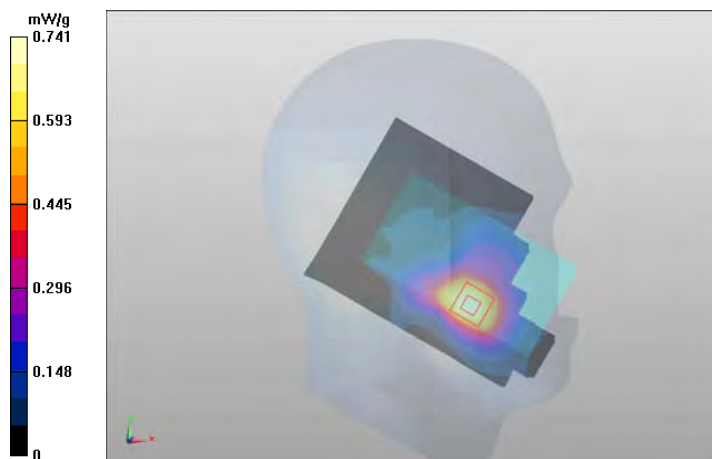
Electronics: DAE4 Sn1213; Calibrated: 2012-02-14

Phantom: SAM1; Type: SAM; Serial: TP-1126

Measurement SW: DASY52, Version 52.8 (1)

Fast SAR of Combined Scans: SAR(1 g) = 0.638 mW/g; SAR(10 g) = 0.367 mW/g

Maximum value of SAR (interpolated) = 0.741 mW/g



Date/Time: 2012-07-23 20:30:29

DASY Configuration for WCDMA - Left/WCDMA - Left/Cheek - Middle/Area Scan:

Test Laboratory: Nokia R&D SAR Lab

Type: RM-845; Serial: C1A138373/C1

Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.406$ mho/m; $\epsilon_r = 38.441$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: ET3DV6 - SN1739; ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn756; Calibrated: 2011-08-26

Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-31 19:29:01

DASY Configuration for WLAN - Left/Cheek - Channel 36/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode; Frequency: 5180 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL5200 Medium parameters used: $f = 5180$ MHz; $\sigma = 4.566$ mho/m; $\epsilon_r = 34.991$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: EX3DV4 - SN3834; ConvF(4.81, 4.81, 4.81); Calibrated: 2012-02-07;

Sensor-Surface: 2mm (Mechanical Surface Detection)

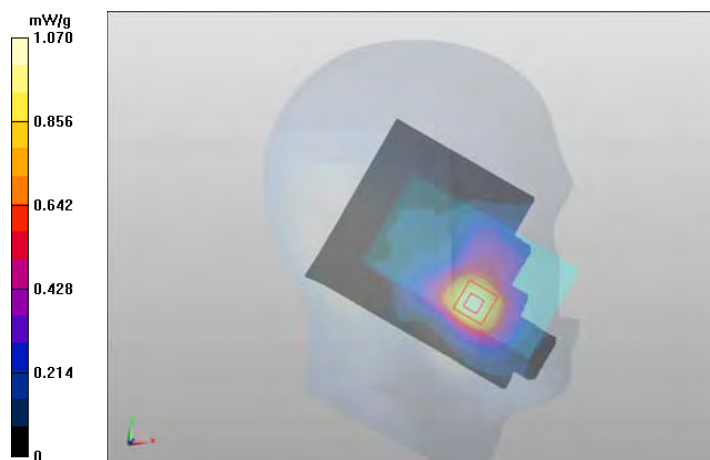
Electronics: DAE4 Sn1213; Calibrated: 2012-02-14

Phantom: SAM1; Type: SAM; Serial: TP-1126

Measurement SW: DASY52, Version 52.8 (1)

Fast SAR of Combined Scans: SAR(1 g) = 0.945 mW/g; SAR(10 g) = 0.549 mW/g

Maximum value of SAR (interpolated) = 1.07 mW/g



APPENDIX B.2: BODY-WORN MEASUREMENT SCANS

Date/Time: 2012-07-20 07:27:09

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 53.736$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 100% RB - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.376 mW/g

LTE/Body - Middle - QPSK - 10MHz - 100% RB - Spacer 15mm - No Accessory - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.582 V/m

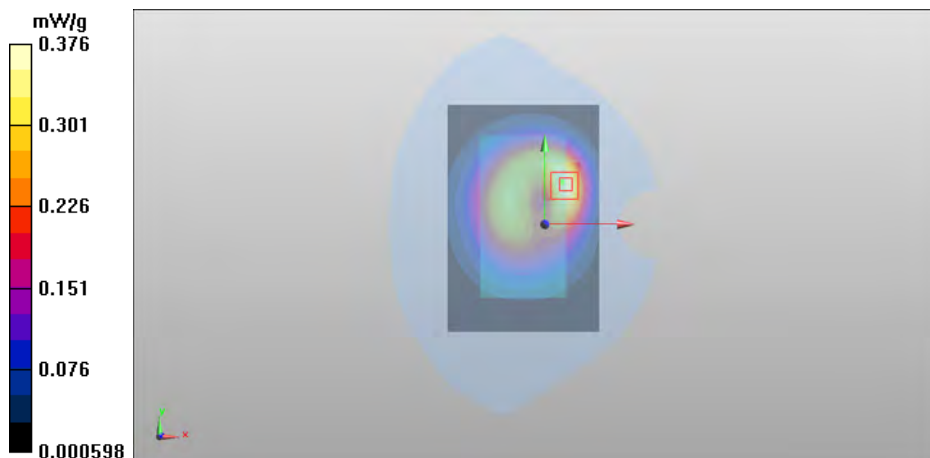
Peak SAR (extrapolated) = 0.502 mW/g

SAR(1 g) = 0.356 mW/g

SAR(10 g) = 0.237 mW/g

Power Drift = -0.06 dB

Maximum value of SAR (measured) = 0.370 mW/g



Date/Time: 2012-07-20 07:48:44

Test Laboratory: TCC Nokia
Type: RM-845; Serial: C1A18246/E2

Communication System: : LTE750

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 50% RB - 50% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.393 mW/g

LTE/Body - Middle - QPSK - 10MHz - 50% RB - 50% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.837 V/m

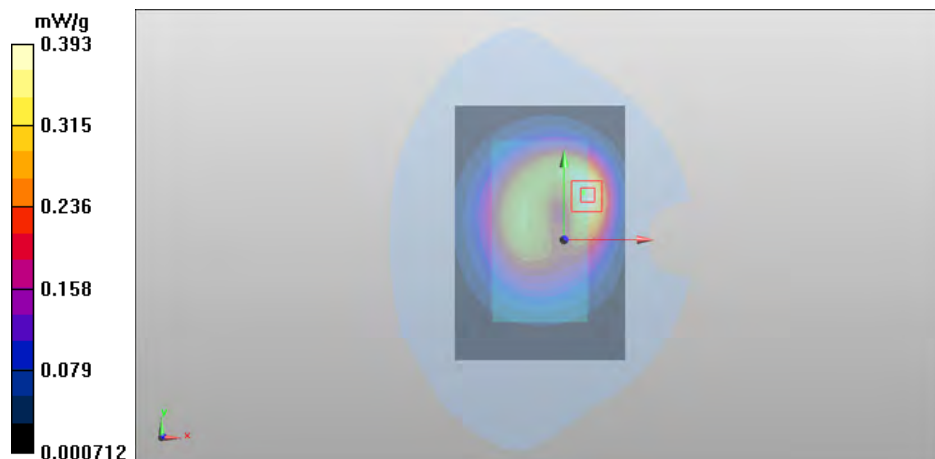
Peak SAR (extrapolated) = 0.527 mW/g

SAR(1 g) = 0.374 mW/g

SAR(10 g) = 0.249 mW/g

Power Drift = -0.01 dB

Maximum value of SAR (measured) = 0.391 mW/g



Date/Time: 2012-07-20 08:10:25

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: : LTE750

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.472 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.471 V/m

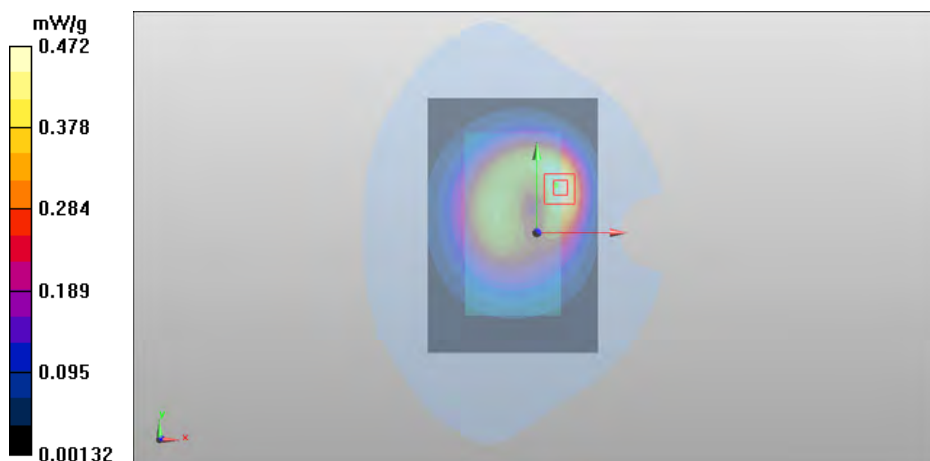
Peak SAR (extrapolated) = 0.635 mW/g

SAR(1 g) = 0.452 mW/g

SAR(10 g) = 0.302 mW/g

Power Drift = 0.05 dB

Maximum value of SAR (measured) = 0.471 mW/g



Date/Time: 2012-07-20 12:53:43

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: : LTE750

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - WH-902 - Back Facing Phantom/Area

Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.441 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - WH-902 - Back Facing Phantom/Zoom

Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.633 V/m

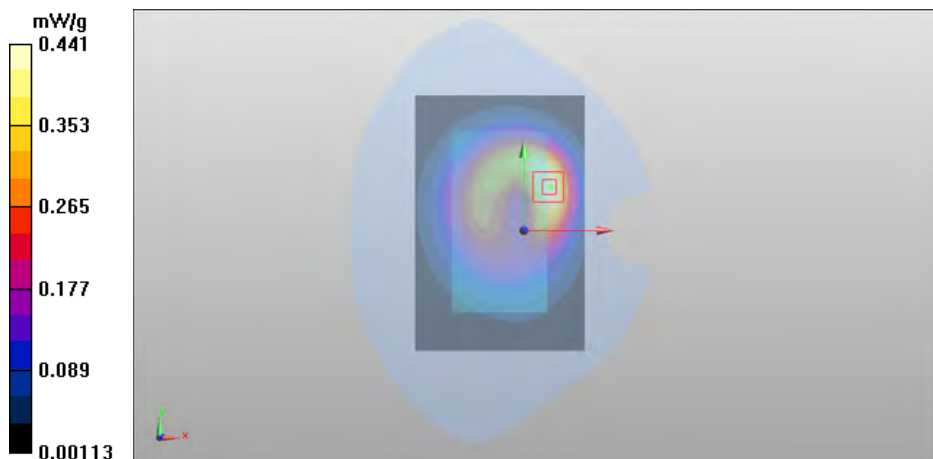
Peak SAR (extrapolated) = 0.597 mW/g

SAR(1 g) = 0.421 mW/g

SAR(10 g) = 0.279 mW/g

Power Drift = -0.01 dB

Maximum value of SAR (measured) = 0.456 mW/g



Date/Time: 2012-07-20 13:33:34

Test Laboratory: TCC Nokia
Type: RM-845; Serial: C1A18246/E2

Communication System: : LTE750

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - No Accessory - Display Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.303 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - No Accessory - Display Facing

Phantom/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.635 V/m

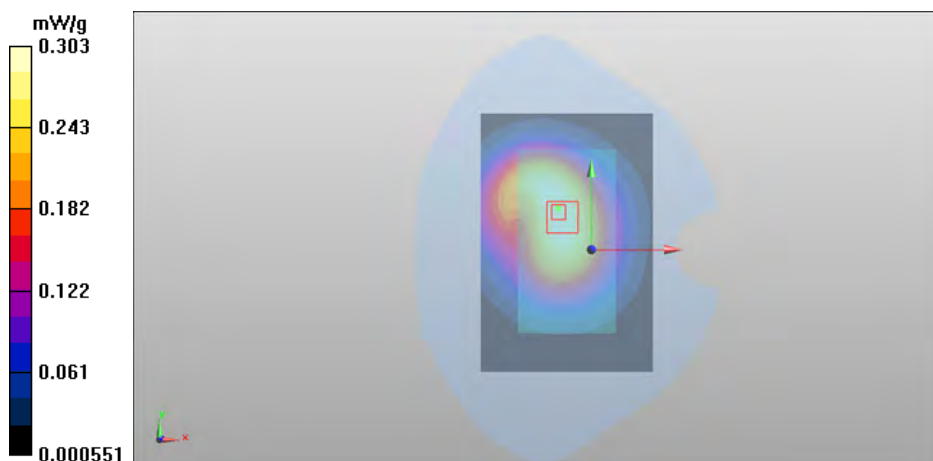
Peak SAR (extrapolated) = 0.383 mW/g

SAR(1 g) = 0.287 mW/g

SAR(10 g) = 0.211 mW/g

Power Drift = 0.03 dB

Maximum value of SAR (measured) = 0.304 mW/g



Date/Time: 2012-07-20 14:04:24

Test Laboratory: TCC Nokia
Type: RM-845; Serial: C1A18246/E2

Communication System: : LTE750

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - WH-902 - Display Facing Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.245 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - WH-902 - Display Facing Phantom/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.899 V/m

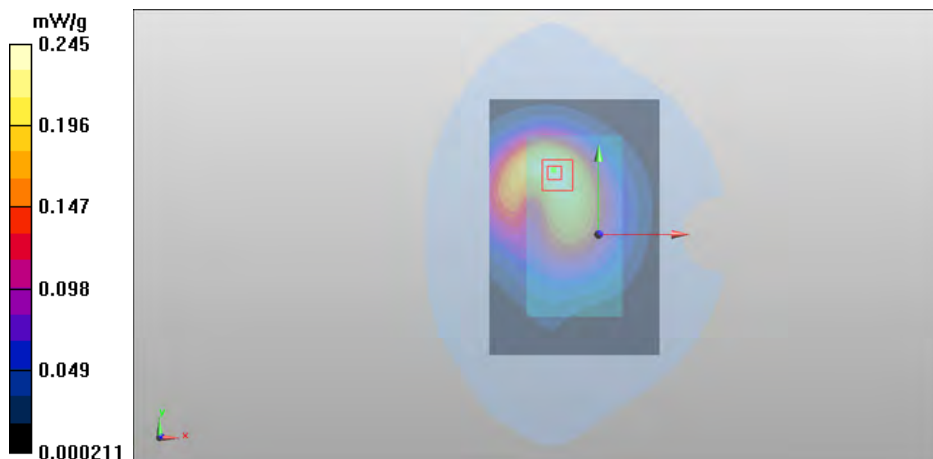
Peak SAR (extrapolated) = 0.313 mW/g

SAR(1 g) = 0.228 mW/g

SAR(10 g) = 0.159 mW/g

Power Drift = 0.12 dB

Maximum value of SAR (measured) = 0.242 mW/g



Date/Time: 2012-07-20 08:26:58

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: : LTE750

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 1.007 \text{ mho/m}$; $\epsilon_r = 53.736$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 100% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.380 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 100% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.738 V/m

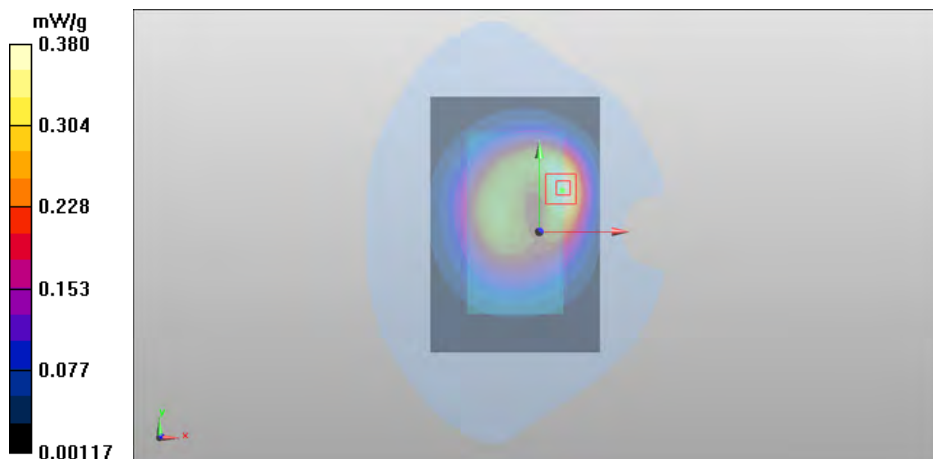
Peak SAR (extrapolated) = 0.506 mW/g

SAR(1 g) = 0.358 mW/g

SAR(10 g) = 0.240 mW/g

Power Drift = -0.10 dB

Maximum value of SAR (measured) = 0.392 mW/g



Date/Time: 2012-07-20 08:43:14

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: : LTE750

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165

- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

- Phantom: SAM #3 CRP; Type: SAM; Serial:

- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 0% offset - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.399 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 0% offset - Spacer 15mm - No Accessory - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.403 V/m

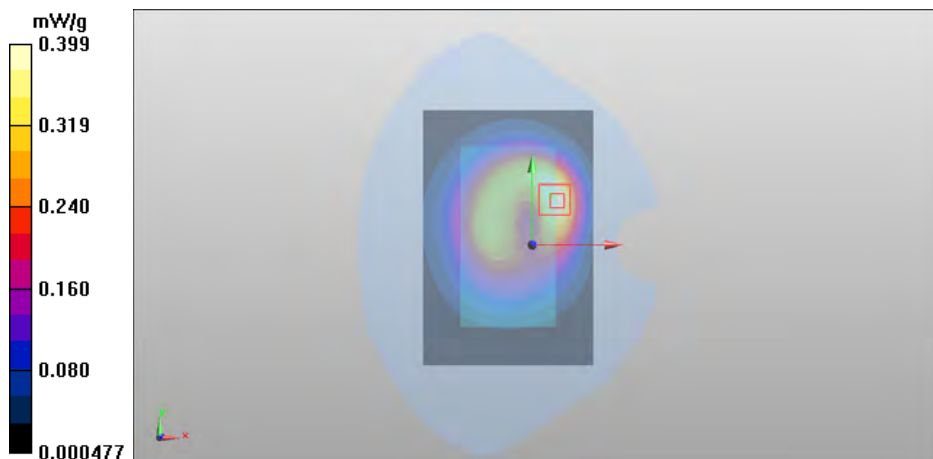
Peak SAR (extrapolated) = 0.527 mW/g

SAR(1 g) = 0.376 mW/g

SAR(10 g) = 0.250 mW/g

Power Drift = -0.08 dB

Maximum value of SAR (measured) = 0.396 mW/g



Date/Time: 2012-07-20 09:06:03

Test Laboratory: TCC Nokia
Type: RM-845; Serial: C1A18246/E2

Communication System: : LTE750

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - 16QAM - 10MHz - 100% RB - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.285 mW/g

LTE/Body - Middle - 16QAM - 10MHz - 100% RB - Spacer 15mm - No Accessory - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.671 V/m

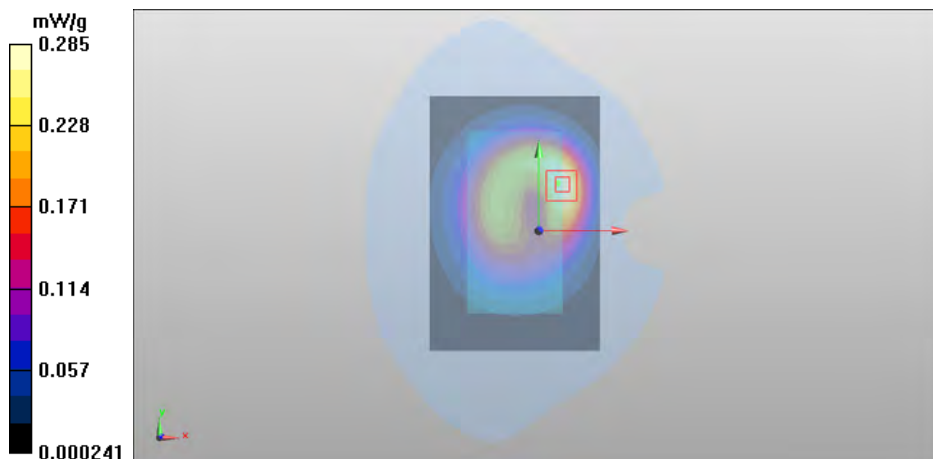
Peak SAR (extrapolated) = 0.380 mW/g

SAR(1 g) = 0.269 mW/g

SAR(10 g) = 0.179 mW/g

Power Drift = -0.02 dB

Maximum value of SAR (measured) = 0.279 mW/g



Date/Time: 2012-07-20 09:33:01

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: : LTE750

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 1.007 \text{ mho/m}$; $\epsilon_r = 53.736$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - 16QAM - 10MHz - 50% RB - 50% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.294 mW/g

LTE/Body - Middle - 16QAM - 10MHz - 50% RB - 50% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 14.049 V/m

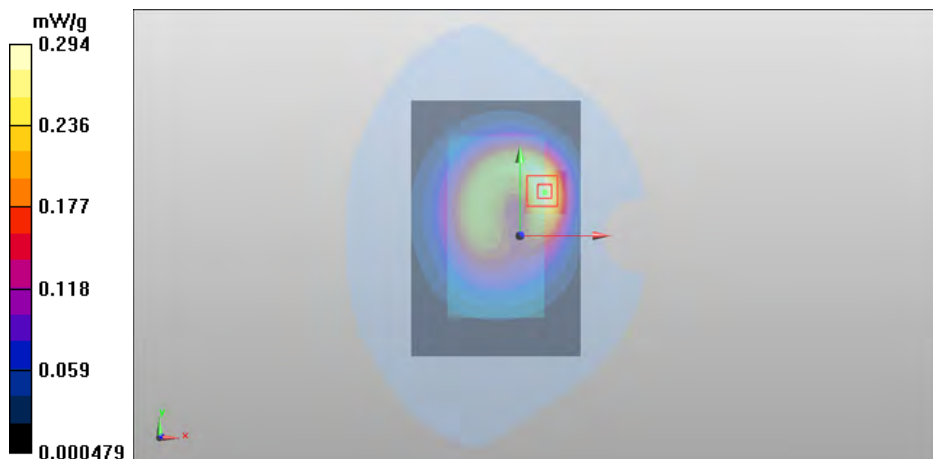
Peak SAR (extrapolated) = 0.398 mW/g

SAR(1 g) = 0.281 mW/g

SAR(10 g) = 0.188 mW/g

Power Drift = -0.05 dB

Maximum value of SAR (measured) = 0.307 mW/g



Date/Time: 2012-07-20 09:59:28

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: : LTE750

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 1.007 \text{ mho/m}$; $\epsilon_r = 53.736$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165

- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

- Phantom: SAM #3 CRP; Type: SAM; Serial:

- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - 16QAM - 10MHz - 1 RB - 50% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.363 mW/g

LTE/Body - Middle - 16QAM - 10MHz - 1 RB - 50% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.586 V/m

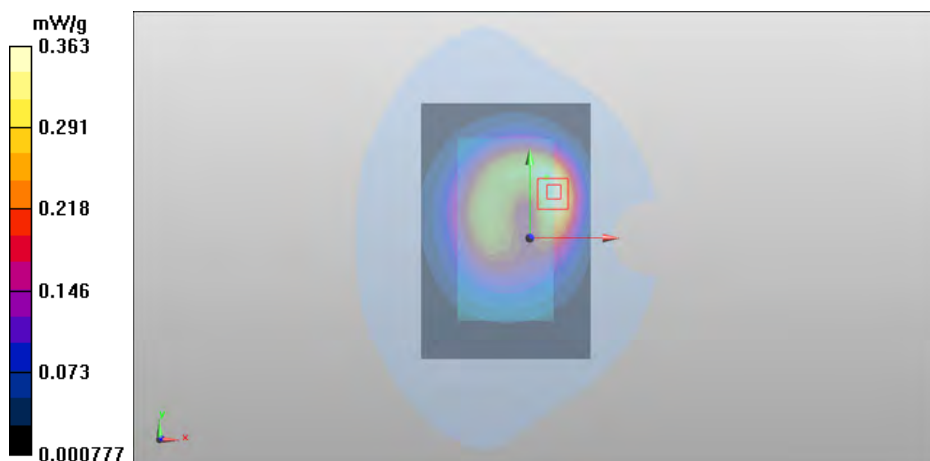
Peak SAR (extrapolated) = 0.493 mW/g

SAR(1 g) = 0.349 mW/g

SAR(10 g) = 0.233 mW/g

Power Drift = 0.01 dB

Maximum value of SAR (measured) = 0.374 mW/g



Date/Time: 2012-07-20 10:22:33

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: : LTE750

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165

- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

- Phantom: SAM #3 CRP; Type: SAM; Serial:

- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - 16QAM - 10MHz - 1 RB - 100% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.282 mW/g

LTE/Body - Middle - 16QAM - 10MHz - 1 RB - 100% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.936 V/m

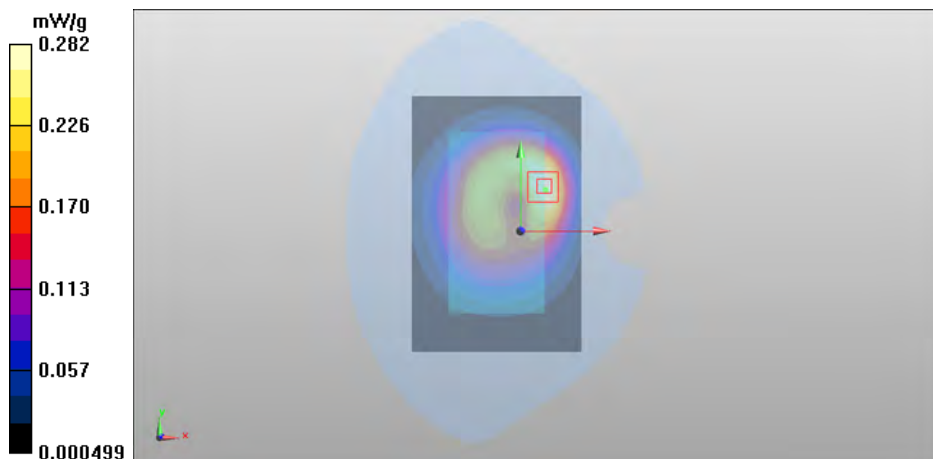
Peak SAR (extrapolated) = 0.381 mW/g

SAR(1 g) = 0.273 mW/g

SAR(10 g) = 0.184 mW/g

Power Drift = 0.00 dB

Maximum value of SAR (measured) = 0.296 mW/g



Date/Time: 2012-07-20 12:18:51

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: : LTE750

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 1.007 \text{ mho/m}$; $\epsilon_r = 53.736$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165

- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

- Phantom: SAM #3 CRP; Type: SAM; Serial:

- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - 16QAM - 10MHz - 1 RB - 0% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.363 mW/g

LTE/Body - Middle - 16QAM - 10MHz - 1 RB - 0% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.659 V/m

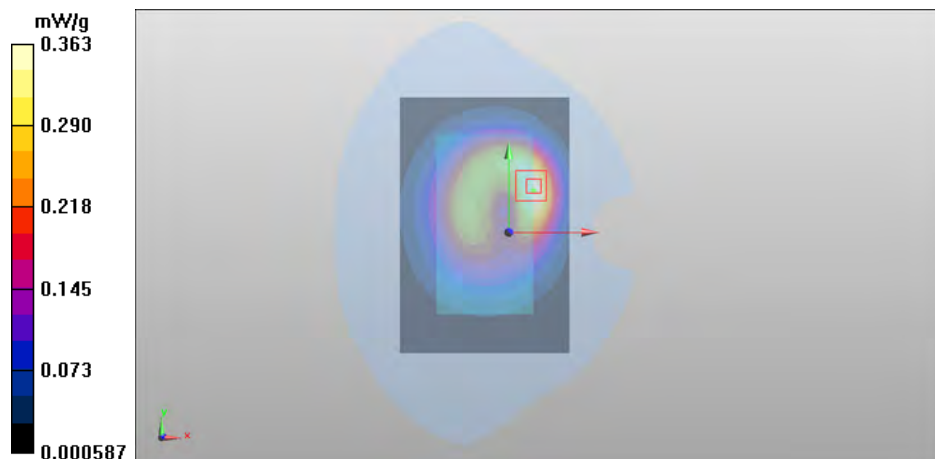
Peak SAR (extrapolated) = 0.478 mW/g

SAR(1 g) = 0.334 mW/g

SAR(10 g) = 0.223 mW/g

Power Drift = -0.12 dB

Maximum value of SAR (measured) = 0.362 mW/g



Date/Time: 2012-07-21 20:23:55

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium Notes: T=20.3

Medium parameters used: $f = 837$ MHz; $\sigma = 1.004$ mho/m; $\epsilon_r = 55.935$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399

- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27

- Phantom: SAM3; Type: SAM; Serial: TP-1399

- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.569 mW/g

CDMA/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.549 V/m

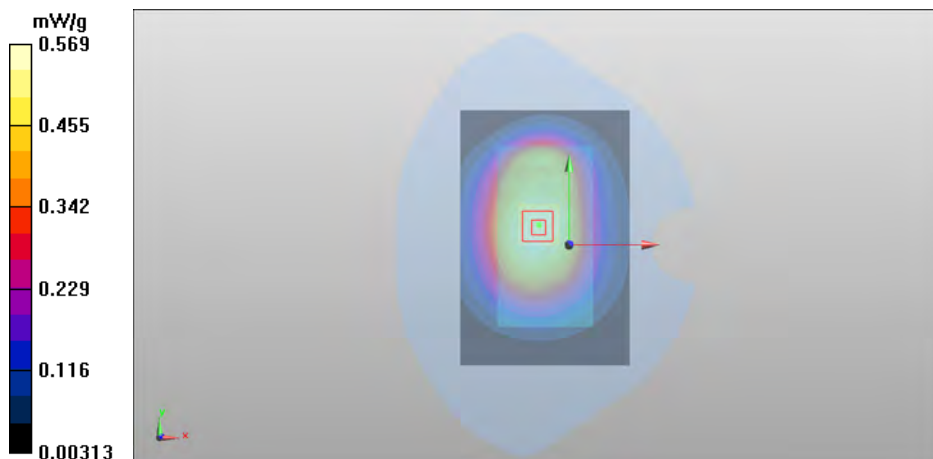
Peak SAR (extrapolated) = 0.646 mW/g

SAR(1 g) = 0.546 mW/g

SAR(10 g) = 0.424 mW/g

Power Drift = -0.12 dB

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



Date/Time: 2012-07-21 20:41:10

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium Notes: T=20.3

Medium parameters used: $f = 837$ MHz; $\sigma = 1.004$ mho/m; $\epsilon_r = 55.935$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399

- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27

- Phantom: SAM3; Type: SAM; Serial: TP-1399

- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Middle - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan (81x121x1): Measurement
grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.498 mW/g

CDMA/Body - Middle - Spacer 15mm - WH-902 - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.066 V/m

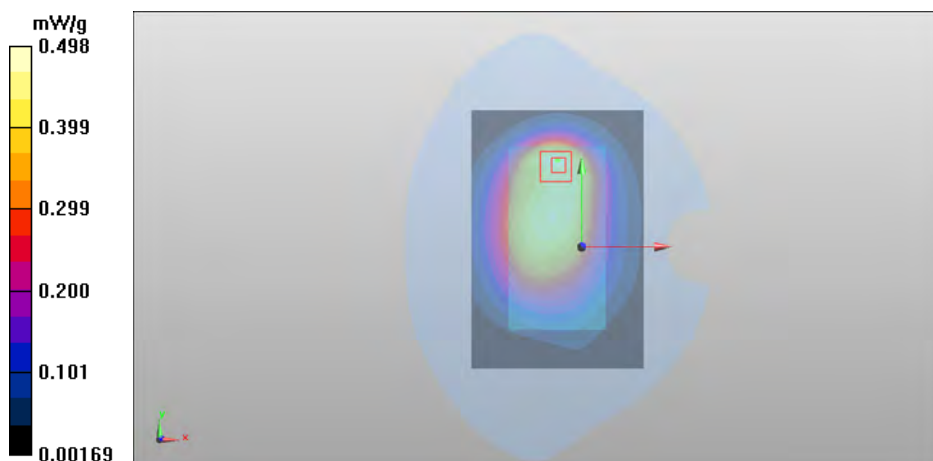
Peak SAR (extrapolated) = 0.667 mW/g

SAR(1 g) = 0.446 mW/g

SAR(10 g) = 0.301 mW/g

Power Drift = 0.01 dB

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



SAR Report

Appendix B.2 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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Date/Time: 2012-07-23 19:44:01

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium Notes: T=20.6

Medium parameters used: $f = 837$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 55.935$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
- Phantom: SAM3; Type: SAM; Serial: TP-1399
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Middle - Spacer 15mm - No Accessory - Display Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.560 mW/g

CDMA/Body - Middle - Spacer 15mm - No Accessory - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.681 V/m

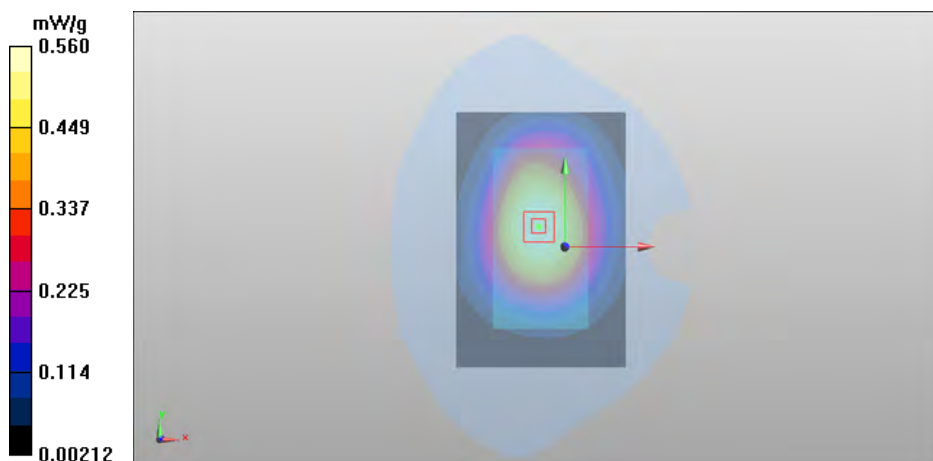
Peak SAR (extrapolated) = 0.643 mW/g

SAR(1 g) = 0.534 mW/g

SAR(10 g) = 0.414 mW/g

Power Drift = -0.02 dB

Maximum value of SAR (measured) = 0.560 mW/g



Date/Time: 2012-07-23 20:20:11

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium Notes: T=20.6

Medium parameters used: $f = 837$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 55.935$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
- Phantom: SAM3; Type: SAM; Serial: TP-1399
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Middle - Spacer 15mm - WH-902 - Display Facing Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.450 mW/g

CDMA/Body - Middle - Spacer 15mm - WH-902 - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.420 V/m

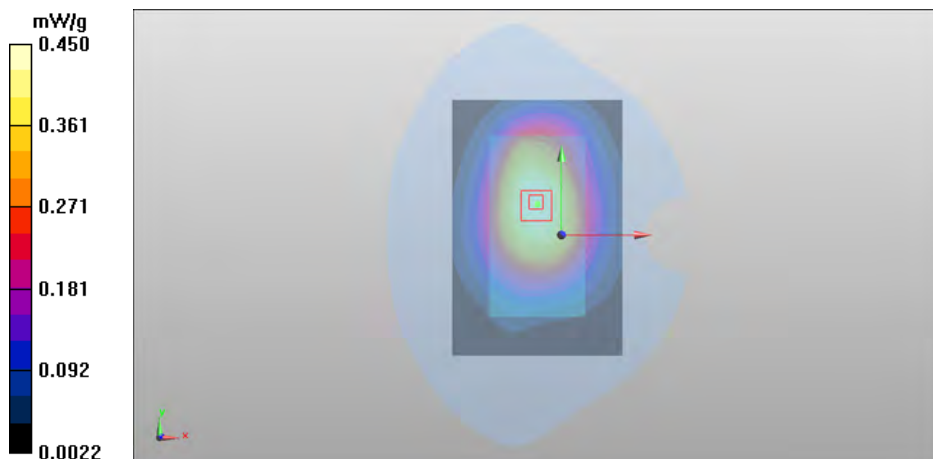
Peak SAR (extrapolated) = 0.506 mW/g

SAR(1 g) = 0.420 mW/g

SAR(10 g) = 0.323 mW/g

Power Drift = -0.15 dB

Maximum value of SAR (measured) = 0.442 mW/g



Date/Time: 2012-07-29 18:03:33

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.09991

Medium: BSL850; Medium Notes: t= 21.0 C

Medium parameters used: f = 837 MHz; σ = 1.008 mho/m; ϵ_r = 53.63; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.92, 5.92, 5.92); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

4-slot GPRS/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.624 mW/g

4-slot GPRS/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.106 V/m

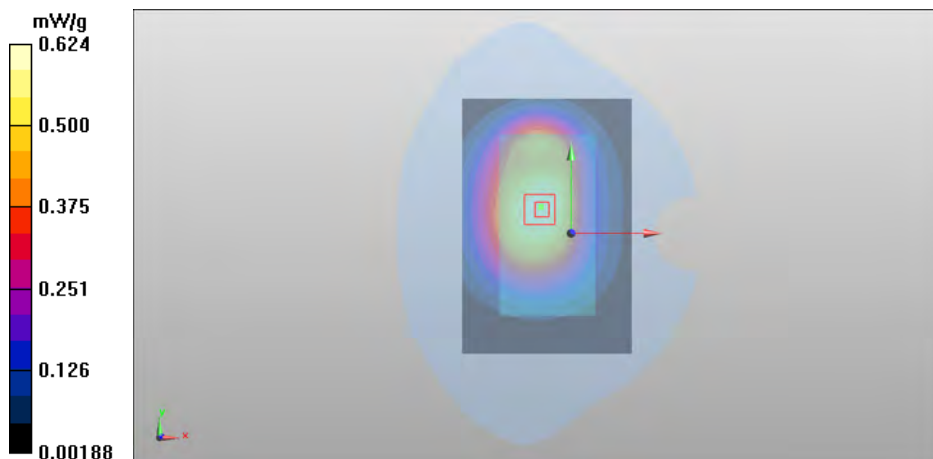
Peak SAR (extrapolated) = 0.701 mW/g

SAR(1 g) = 0.574 mW/g

SAR(10 g) = 0.441 mW/g

Power Drift = -0.27 dB

Maximum value of SAR (measured) = 0.602 mW/g



Date/Time: 2012-07-29 18:16:39

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.09991

Medium: BSL850; Medium Notes: t= 21.0 C

Medium parameters used: f = 837 MHz; σ = 1.008 mho/m; ϵ_r = 53.63; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.92, 5.92, 5.92); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

4-slot GPRS/Body - Middle - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.487 mW/g

4-slot GPRS/Body - Middle - Spacer 15mm - WH-902 - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.740 V/m

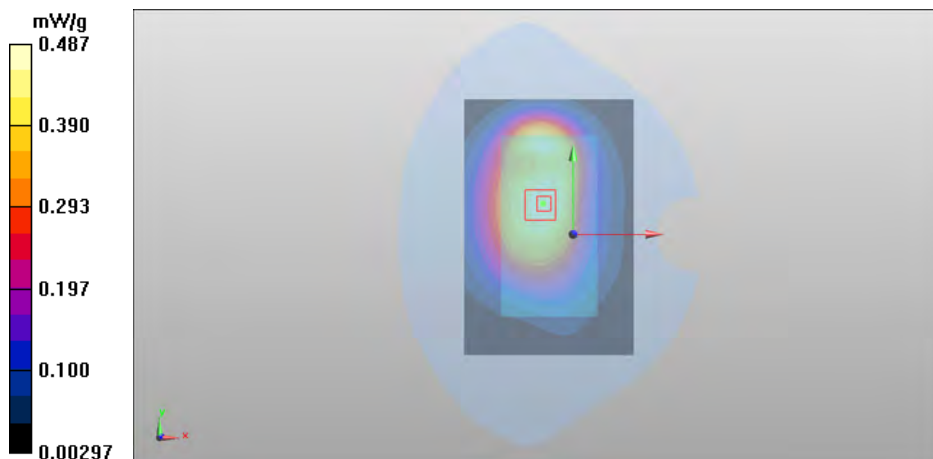
Peak SAR (extrapolated) = 0.555 mW/g

SAR(1 g) = 0.457 mW/g

SAR(10 g) = 0.350 mW/g

Power Drift = -0.09 dB

Maximum value of SAR (measured) = 0.482 mW/g



Date/Time: 2012-07-29 17:29:02

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.09991

Medium: BSL850; Medium Notes: t= 21.0 C

Medium parameters used: f = 837 MHz; σ = 1.008 mho/m; ϵ_r = 53.63; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.92, 5.92, 5.92); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

4-slot GPRS/Body - Middle - Spacer 15mm - No Accessory - Display Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.672 mW/g

4-slot GPRS/Body - Middle - Spacer 15mm - No Accessory - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 25.603 V/m

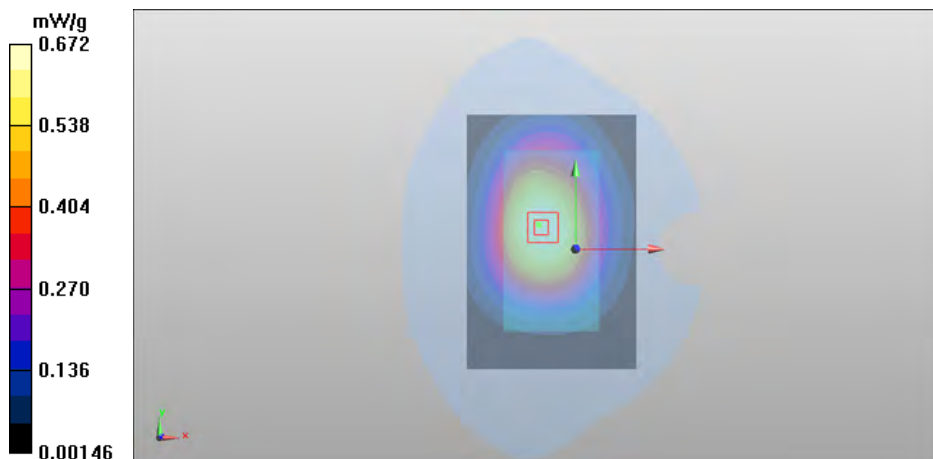
Peak SAR (extrapolated) = 0.766 mW/g

SAR(1 g) = 0.635 mW/g

SAR(10 g) = 0.489 mW/g

Power Drift = -0.17 dB

Maximum value of SAR (measured) = 0.665 mW/g



Date/Time: 2012-07-29 17:47:41

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.09991

Medium: BSL850; Medium Notes: t= 21.0 C

Medium parameters used: f = 837 MHz; σ = 1.008 mho/m; ϵ_r = 53.63; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.92, 5.92, 5.92); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

4-slot GPRS/Body - Middle - Spacer 15mm - WH-902 - Display Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.491 mW/g

4-slot GPRS/Body - Middle - Spacer 15mm - WH-902 - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.427 V/m

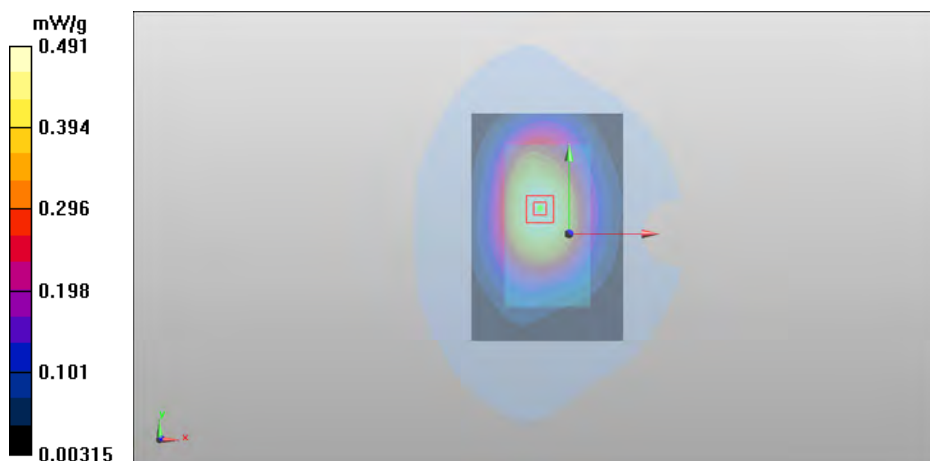
Peak SAR (extrapolated) = 0.564 mW/g

SAR(1 g) = 0.464 mW/g

SAR(10 g) = 0.356 mW/g

Power Drift = -0.07 dB

Maximum value of SAR (measured) = 0.487 mW/g



Date/Time: 2012-07-26 16:18:43

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M900; Medium Notes: T=20.6

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.978 \text{ mho/m}$; $\epsilon_r = 55.206$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399

- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27

- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279

- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom /Area Scan (81x121x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

WCDMA/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom /Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.816 V/m

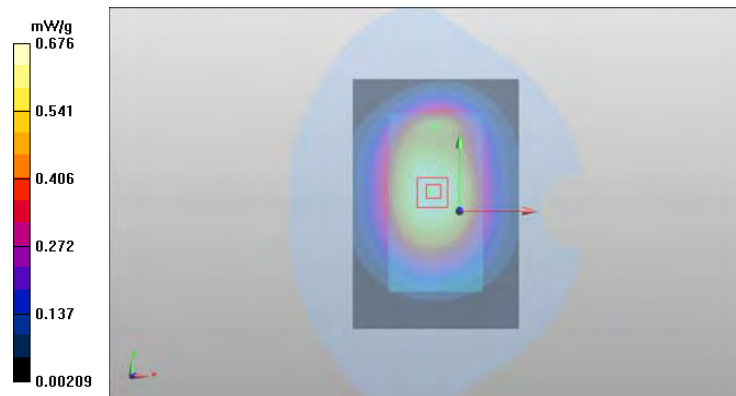
Peak SAR (extrapolated) = 0.786 mW/g

SAR(1 g) = 0.643 mW/g

SAR(10 g) = 0.490 mW/g

Power Drift = -0.06 dB

Maximum value of SAR (measured) = 0.675 mW/g



Date/Time: 2012-07-26 16:03:15

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M900; Medium Notes: T=20.6

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.978 \text{ mho/m}$; $\epsilon_r = 55.206$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399

- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27

- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279

- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - Middle - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan (81x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.576 mW/g

WCDMA/Body - Middle - Spacer 15mm - WH-902 - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.642 V/m

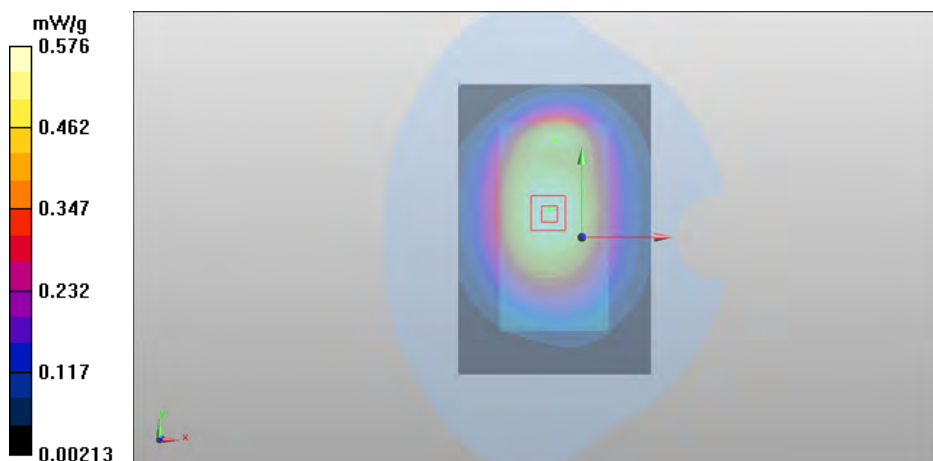
Peak SAR (extrapolated) = 0.673 mW/g

SAR(1 g) = 0.549 mW/g

SAR(10 g) = 0.418 mW/g

Power Drift = -0.02 dB

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



Date/Time: 2012-07-26 14:29:52

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M900; Medium Notes: T=20.6

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.978 \text{ mho/m}$; $\epsilon_r = 55.206$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - Middle - Spacer 15mm - No Accessory - Display Facing Phantom/Area Scan (81x121x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.654 mW/g

WCDMA/Body - Middle - Spacer 15mm - No Accessory - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.691 V/m

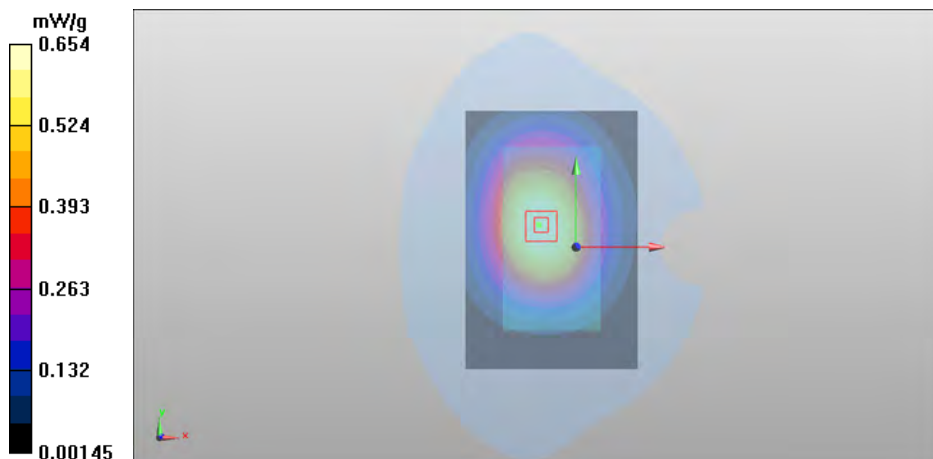
Peak SAR (extrapolated) = 0.765 mW/g

SAR(1 g) = 0.621 mW/g

SAR(10 g) = 0.472 mW/g

Power Drift = -0.02 dB

Maximum value of SAR (measured) = 0.649 mW/g



Date/Time: 2012-07-26 14:52:38

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M900; Medium Notes: T=20.6

Medium parameters used: $f = 835$ MHz; $\sigma = 0.978$ mho/m; $\epsilon_r = 55.206$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
- Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - Middle - Spacer 15mm - WH-902 - Display Facing Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.452 mW/g

WCDMA/Body - Middle - Spacer 15mm - WH-902 - Display Facing Phantom/Zoom Scan (6x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.335 V/m

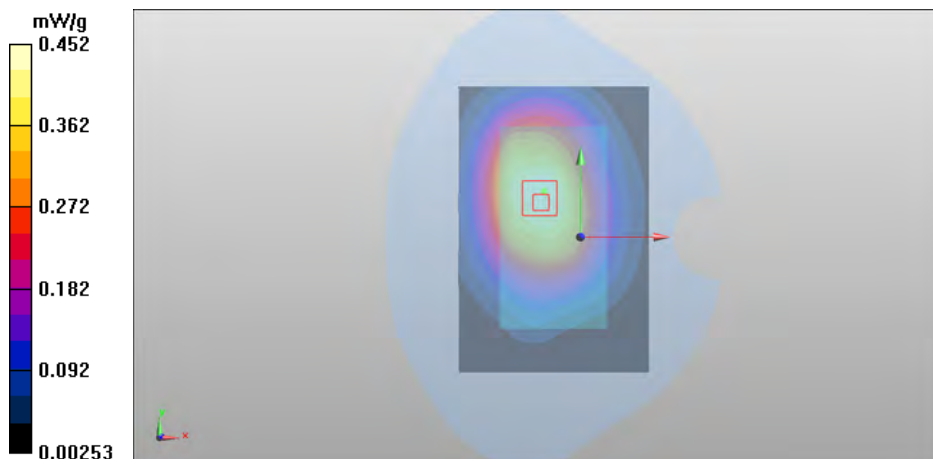
Peak SAR (extrapolated) = 0.596 mW/g

SAR(1 g) = 0.478 mW/g

SAR(10 g) = 0.357 mW/g

Power Drift = 0.58 dB

Maximum value of SAR (measured) = 0.503 mW/g



Date/Time: 2012-07-18 22:28:11

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900 RC3/S055

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=21.9

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.558$ mho/m; $\epsilon_r = 53.003$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2011-07-21
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA/Body – Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.746 mW/g

CDMA/Body – Middle - Spacer 15mm - No Accessory - Back Facing Phantom /Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.449 V/m

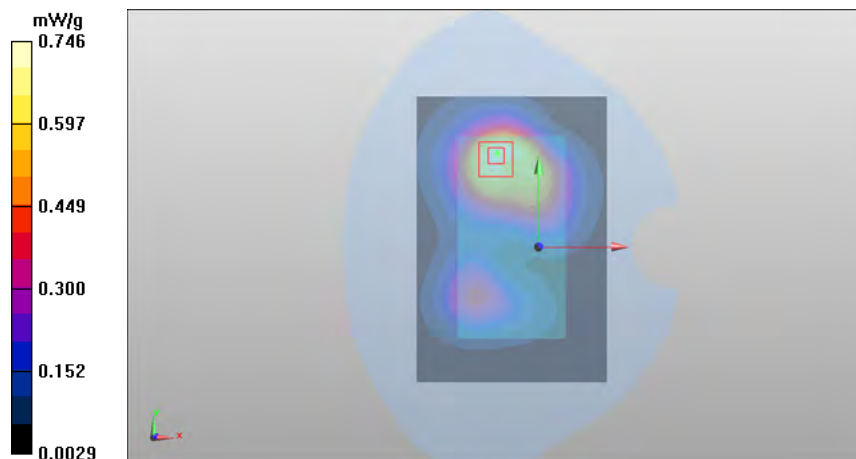
Peak SAR (extrapolated) = 1.034 mW/g

SAR(1 g) = 0.681 mW/g

SAR(10 g) = 0.431 mW/g

Power Drift = -0.06 dB

Maximum value of SAR (measured) = 0.738 mW/g



Date/Time: 2012-07-18 22:50:12

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900 RC3/S055

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=21.9

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.558$ mho/m; $\epsilon_r = 53.003$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2011-07-21
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA/Body – Middle - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.758 mW/g

CDMA/Body – Middle - Spacer 15mm - WH-902 - Back Facing Phantom /Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.302 V/m

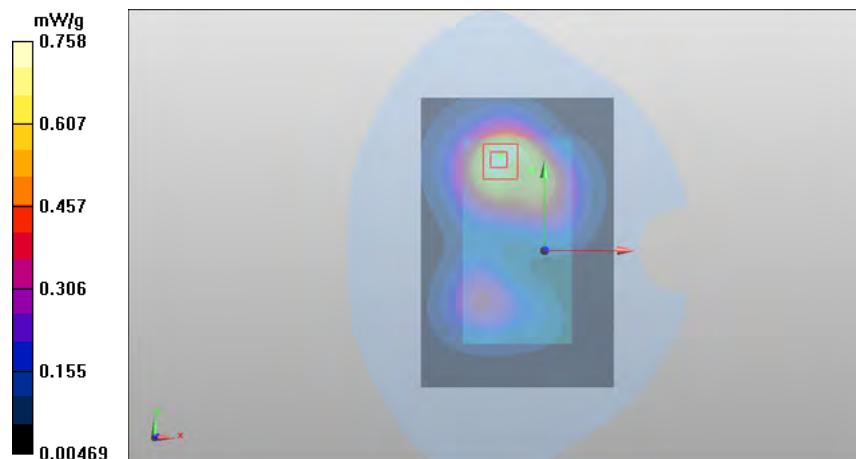
Peak SAR (extrapolated) = 1.045 mW/g

SAR(1 g) = 0.692 mW/g

SAR(10 g) = 0.437 mW/g

Power Drift = -0.03 dB

Maximum value of SAR (measured) = 0.746 mW/g



Date/Time: 2012-07-18 21:06:45

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900 RC3/S055

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=21.9

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.558$ mho/m; $\epsilon_r = 53.003$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2011-07-21
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA/Body – Middle - Spacer 15mm - No Accessory - Display Facing Phantom /Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.770 mW/g

CDMA/Body – Middle - Spacer 15mm - No Accessory - Display Facing Phantom /Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.905 V/m

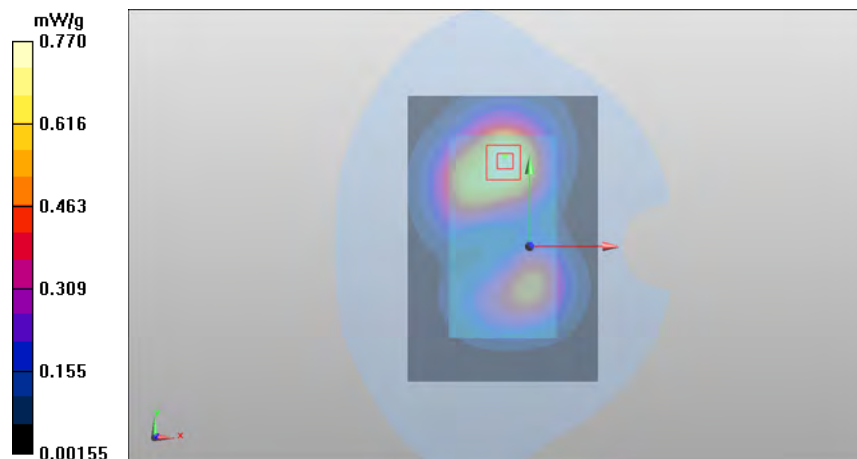
Peak SAR (extrapolated) = 1.044 mW/g

SAR(1 g) = 0.704 mW/g

SAR(10 g) = 0.456 mW/g

Power Drift = -0.30 dB

Maximum value of SAR (measured) = 0.753 mW/g



Date/Time: 2012-07-18 21:54:53

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900 RC3/S055

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=21.9

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.558$ mho/m; $\epsilon_r = 53.003$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2011-07-21
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA/Body – Middle - Spacer 15mm - WH-902 - Display Facing Phantom /Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.763 mW/g

CDMA/Body – Middle - Spacer 15mm - WH-902 - Display Facing Phantom /Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.288 V/m

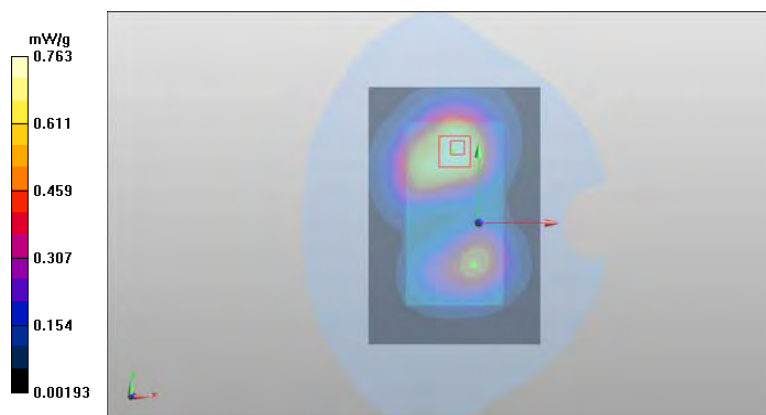
Peak SAR (extrapolated) = 1.070 mW/g

SAR(1 g) = 0.719 mW/g

SAR(10 g) = 0.465 mW/g

Power Drift = 0.02 dB

Maximum value of SAR (measured) = 0.757 mW/g



Date/Time: 2012-07-27 22:06:02

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium: MSL1900; Medium Notes: T=21.6

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.579$ mho/m; $\epsilon_r = 52.086$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

2-slot GPRS/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.409 mW/g

2-slot GPRS/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.807 V/m

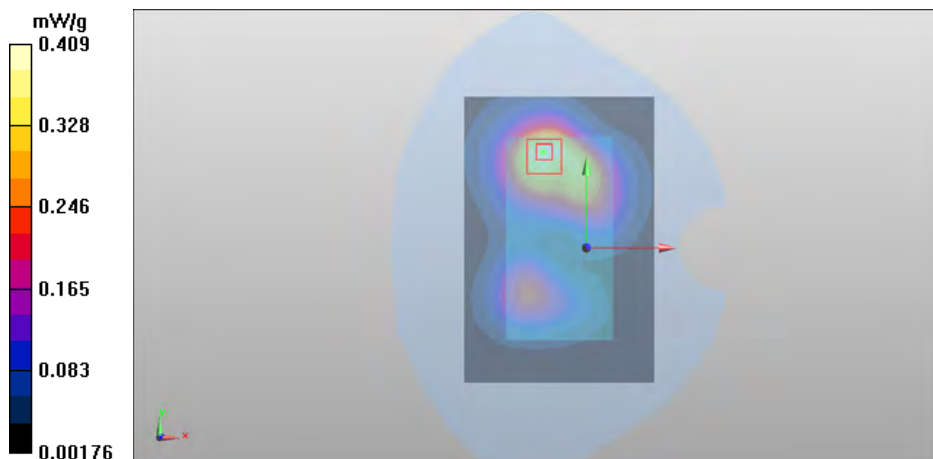
Peak SAR (extrapolated) = 0.563 mW/g

SAR(1 g) = 0.366 mW/g

SAR(10 g) = 0.230 mW/g

Power Drift = 0.02 dB

Maximum value of SAR (measured) = 0.398 mW/g



Date/Time: 2012-07-27 22:21:59

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium: MSL1900; Medium Notes: T=21.6

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.579$ mho/m; $\epsilon_r = 52.086$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

2-slot GPRS/Body - Middle - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.412 mW/g

2-slot GPRS/Body - Middle - Spacer 15mm - WH-902 - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.027 V/m

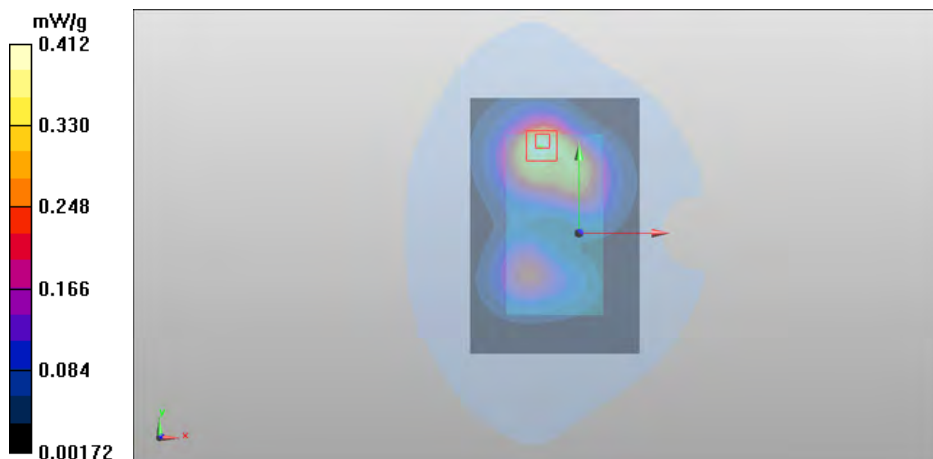
Peak SAR (extrapolated) = 0.539 mW/g

SAR(1 g) = 0.349 mW/g

SAR(10 g) = 0.211 mW/g

Power Drift = -0.07 dB

Maximum value of SAR (measured) = 0.400 mW/g



Date/Time: 2012-07-27 21:26:05

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium: MSL1900; Medium Notes: T=21.6

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.579$ mho/m; $\epsilon_r = 52.086$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

2-slot GPRS/Body - Middle - Spacer 15mm - No Accessory - Display Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.427 mW/g

2-slot GPRS/Body - Middle - Spacer 15mm - No Accessory - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.110 V/m

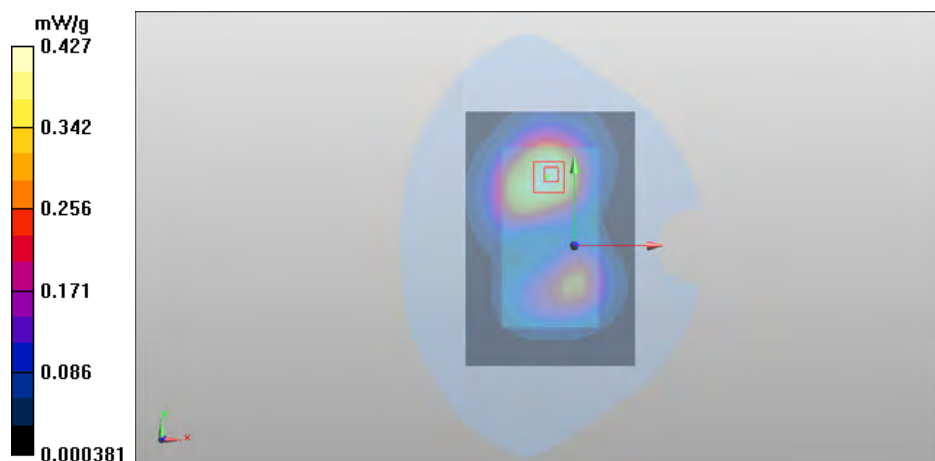
Peak SAR (extrapolated) = 0.576 mW/g

SAR(1 g) = 0.388 mW/g

SAR(10 g) = 0.251 mW/g

Power Drift = -0.02 dB

Maximum value of SAR (measured) = 0.409 mW/g



Date/Time: 2012-07-27 21:46:01

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium: MSL1900; Medium Notes: T=21.6

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.579$ mho/m; $\epsilon_r = 52.086$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

2-slot GPRS/Body - Middle - Spacer 15mm -WH-902 - Display Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.425 mW/g

2-slot GPRS/Body - Middle - Spacer 15mm -WH-902 - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.029 V/m

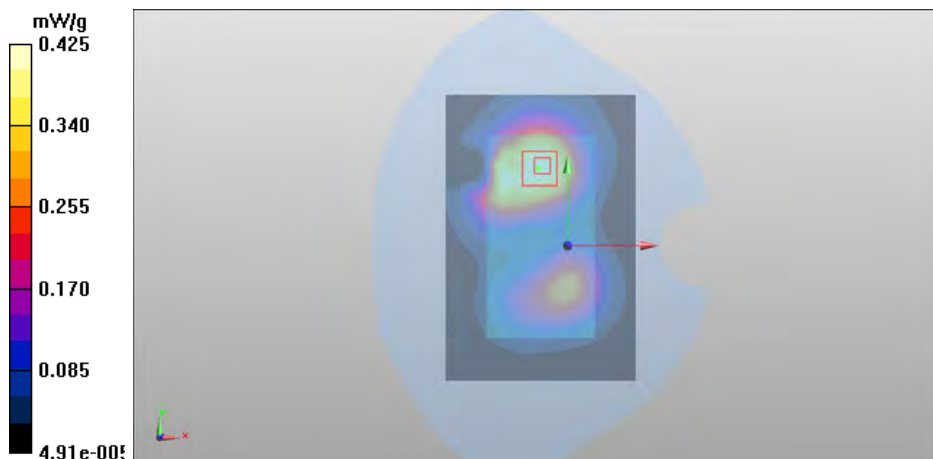
Peak SAR (extrapolated) = 0.582 mW/g

SAR(1 g) = 0.393 mW/g

SAR(10 g) = 0.254 mW/g

Power Drift = -0.04 dB

Maximum value of SAR (measured) = 0.418 mW/g



Date/Time: 2012-07-21 00:24:19

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes:

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.572$ mho/m; $\epsilon_r = 52.62$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body – Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

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

WCDMA/Body – Middle - Spacer 15mm - No Accessory - Back Facing Phantom /Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.099 V/m

Peak SAR (extrapolated) = 0.919 mW/g

SAR(1 g) = 0.607 mW/g

SAR(10 g) = 0.383 mW/g

Power Drift = 0.21 dB

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

WCDMA/Body – Middle - Spacer 15mm - No Accessory - Back Facing Phantom /Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.099 V/m

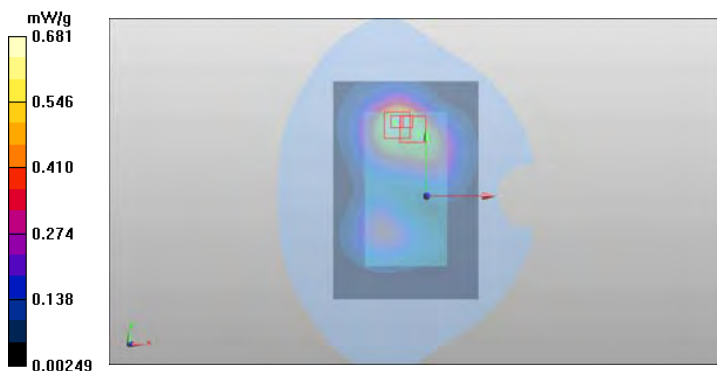
Peak SAR (extrapolated) = 0.948 mW/g

SAR(1 g) = 0.576 mW/g

SAR(10 g) = 0.348 mW/g

Power Drift = 0.21 dB

Maximum value of SAR (measured) = 0.652 mW/g



Date/Time: 2012-07-21 00:52:26

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes:

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.572$ mho/m; $\epsilon_r = 52.62$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body – Middle - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.696 mW/g

WCDMA/Body – Middle - Spacer 15mm - WH-902 - Back Facing Phantom /Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.568 V/m

Peak SAR (extrapolated) = 0.942 mW/g

SAR(1 g) = 0.621 mW/g

SAR(10 g) = 0.397 mW/g

Power Drift = 0.17 dB

Maximum value of SAR (measured) = 0.667 mW/g

WCDMA/Body – Middle - Spacer 15mm - WH-902 - Back Facing Phantom /Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.568 V/m

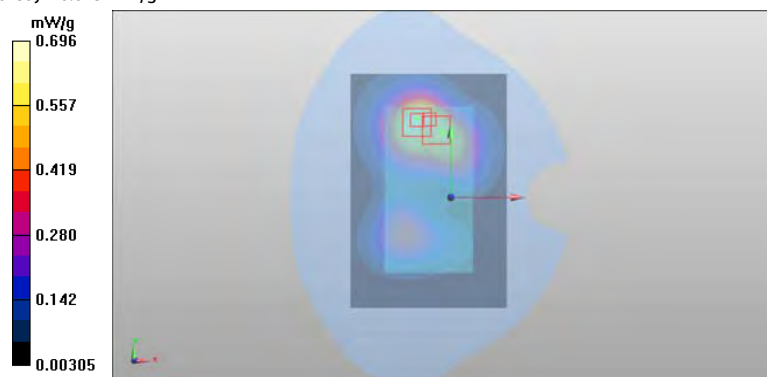
Peak SAR (extrapolated) = 0.929 mW/g

SAR(1 g) = 0.561 mW/g

SAR(10 g) = 0.345 mW/g

Power Drift = 0.17 dB

Maximum value of SAR (measured) = 0.649 mW/g



Date/Time: 2012-07-20 22:33:30

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes:

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.572$ mho/m; $\epsilon_r = 52.62$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body – Middle - Spacer 15mm - No Accessory - Display Facing Phantom/Area Scan (81x121x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.674 mW/g

WCDMA/Body – Middle - Spacer 15mm - No Accessory - Display Facing Phantom /Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 8.730 V/m

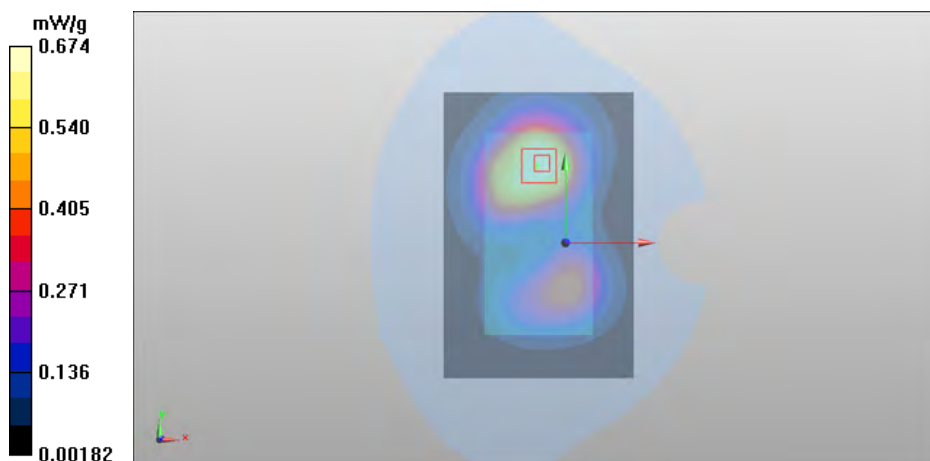
Peak SAR (extrapolated) = 0.928 mW/g

SAR(1 g) = 0.624 mW/g

SAR(10 g) = 0.404 mW/g

Power Drift = -0.15 dB

Maximum value of SAR (measured) = 0.660 mW/g



Date/Time: 2012-07-20 23:55:45

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: WCDMA1900

Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes:

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.597$ mho/m; $\epsilon_r = 52.508$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body – High - Spacer 15mm - WH-902 - Display Facing Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.669 mW/g

WCDMA/Body – High - Spacer 15mm - WH-902 - Display Facing Phantom /Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.309 V/m

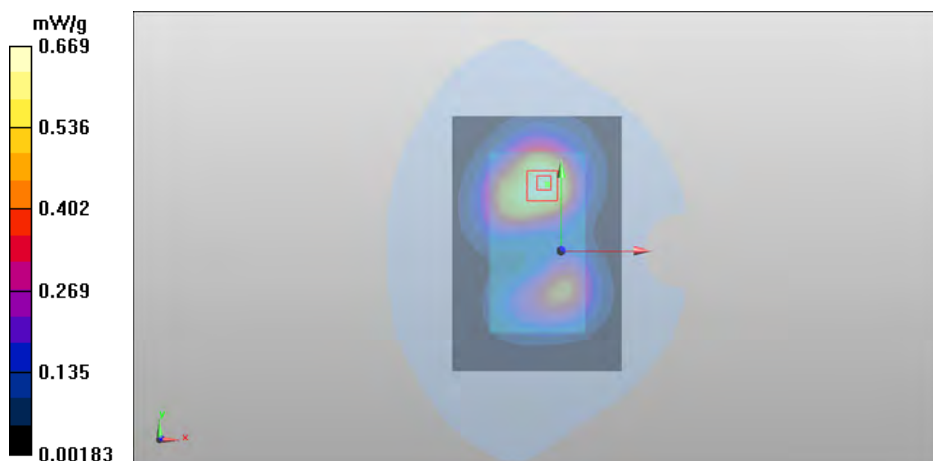
Peak SAR (extrapolated) = 0.943 mW/g

SAR(1 g) = 0.629 mW/g

SAR(10 g) = 0.404 mW/g

Power Drift = -0.01 dB

Maximum value of SAR (measured) = 0.669 mW/g



SAR Report

Appendix B.2 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

Copyright © 2012 TCC Nokia

Date/Time: 2012-07-20 18:42:09

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: BSL2450; Medium Notes: $t = 21.3$ C

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.934$ mho/m; $\epsilon_r = 51.203$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (121x181x1):

Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.0995 mW/g

WLAN/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 3.271 V/m

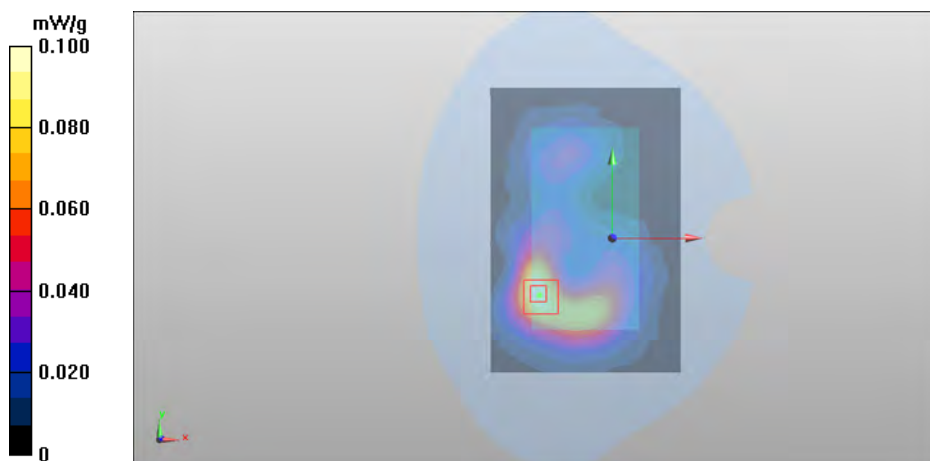
Peak SAR (extrapolated) = 0.161 mW/g

SAR(1 g) = 0.091 mW/g

SAR(10 g) = 0.050 mW/g

Power Drift = 0.22 dB

Maximum value of SAR (measured) = 0.0999 mW/g



Date/Time: 2012-07-20 20:29:40

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: BSL2450; Medium Notes: $t = 21.3$ C

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.965$ mho/m; $\epsilon_r = 51.098$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN/Body - High - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan (121x181x1): Measurement

grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.140 mW/g

WLAN/Body - High - Spacer 15mm - WH-902 - Back Facing Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement

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

Reference Value = 3.722 V/m

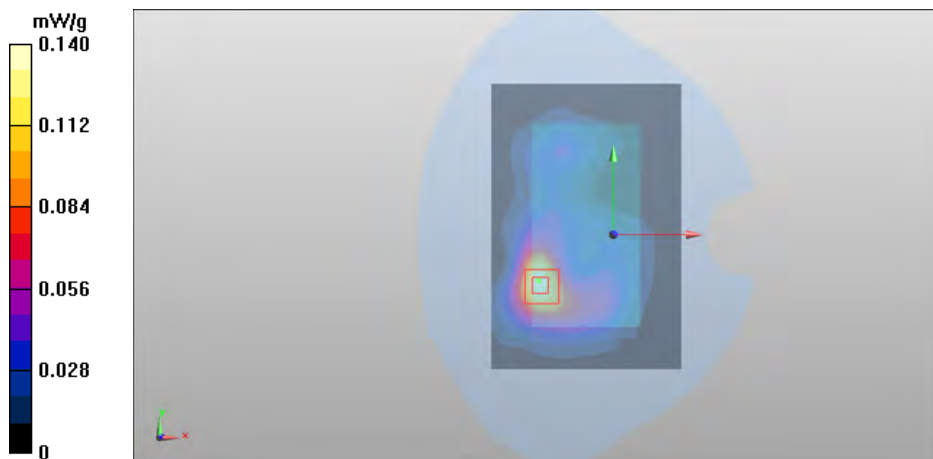
Peak SAR (extrapolated) = 0.230 mW/g

SAR(1 g) = 0.130 mW/g

SAR(10 g) = 0.069 mW/g

Power Drift = 0.02 dB

Maximum value of SAR (measured) = 0.144 mW/g



Date/Time: 2012-07-20 17:26:24

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: BSL2450; Medium Notes: $t = 21.3$ C

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.934$ mho/m; $\epsilon_r = 51.203$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN/Body - Middle - Spacer 15mm - No Accessory - Display Facing Phantom/Area Scan (121x181x1):

Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.0792 mW/g

WLAN/Body - Middle - Spacer 15mm - No Accessory - Display Facing Phantom/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 1.921 V/m

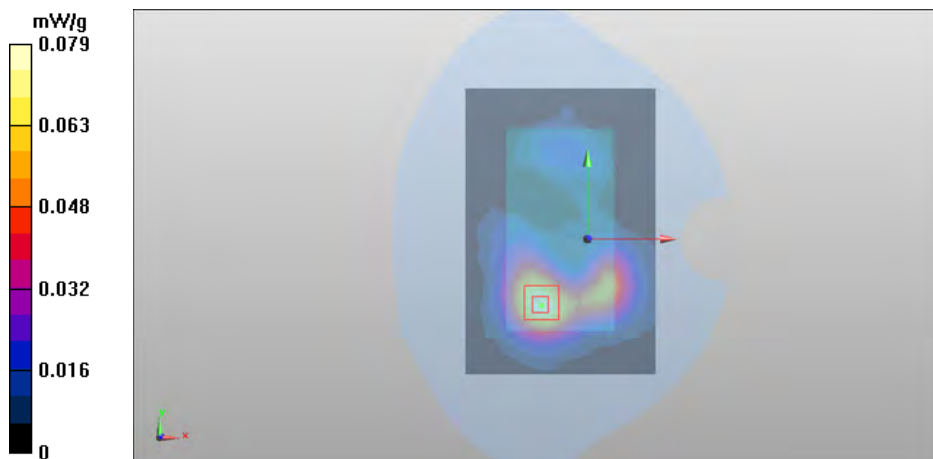
Peak SAR (extrapolated) = 0.122 mW/g

SAR(1 g) = 0.072 mW/g

SAR(10 g) = 0.042 mW/g

Power Drift = 0.49 dB

Maximum value of SAR (measured) = 0.0785 mW/g



Date/Time: 2012-07-20 18:06:05

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: BSL2450; Medium Notes: $t = 21.3$ C

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.934$ mho/m; $\epsilon_r = 51.203$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN/Body - Middle - Spacer 15mm - WH-902 - Display Facing Phantom/Area Scan (121x181x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.0706 mW/g

WLAN/Body - Middle - Spacer 15mm - WH-902 - Display Facing Phantom/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 2.121 V/m

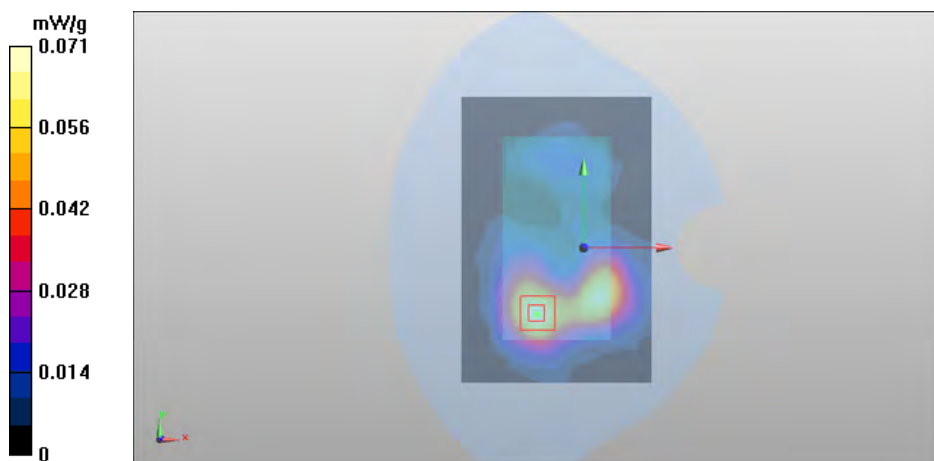
Peak SAR (extrapolated) = 0.106 mW/g

SAR(1 g) = 0.062 mW/g

SAR(10 g) = 0.036 mW/g

Power Drift = 0.03 dB

Maximum value of SAR (measured) = 0.0670 mW/g



Date/Time: 2012-08-03 01:59:15

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode

Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: BSL5200; Medium Notes: 20.8 C

Medium parameters used: $f = 5220$ MHz; $\sigma = 5.493$ mho/m; $\epsilon_r = 48.671$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(3.99, 3.99, 3.99); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM2; Type: SAM; Serial: TP-1570
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WLAN/Body - Channel 44 - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (121x181x1):

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.148 mW/g

WLAN/Body - Channel 44 - Spacer 15mm - No Accessory - Back Facing Phantom/Zoom Scan (8x8x12)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.558 V/m

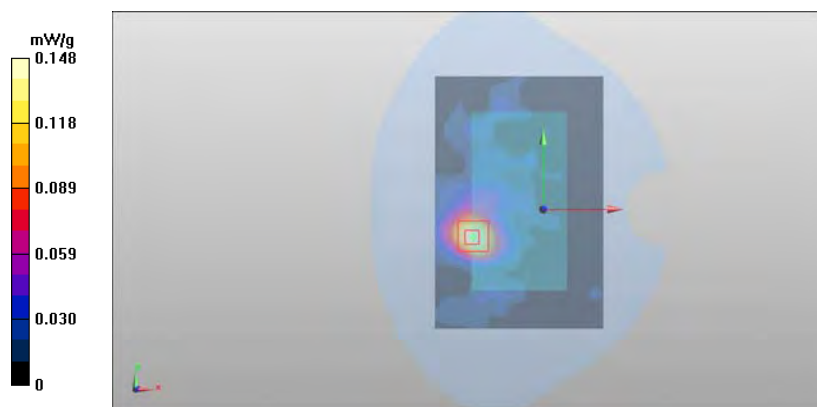
Peak SAR (extrapolated) = 0.307 mW/g

SAR(1 g) = 0.089 mW/g

SAR(10 g) = 0.036 mW/g

Power Drift = -0.14 dB

Maximum value of SAR (measured) = 0.156 mW/g



Date/Time: 2012-08-03 05:25:40

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode

Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: BSL5200; Medium Notes: 20.8 C

Medium parameters used: $f = 5220$ MHz; $\sigma = 5.493$ mho/m; $\epsilon_r = 48.671$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(3.99, 3.99, 3.99); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM2; Type: SAM; Serial: TP-1570
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WLAN/Body - Channel 44 - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan (121x181x1):

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.143 mW/g

WLAN/Body - Channel 44 - Spacer 15mm - WH-902 - Back Facing Phantom/Zoom Scan (8x8x12)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.648 V/m

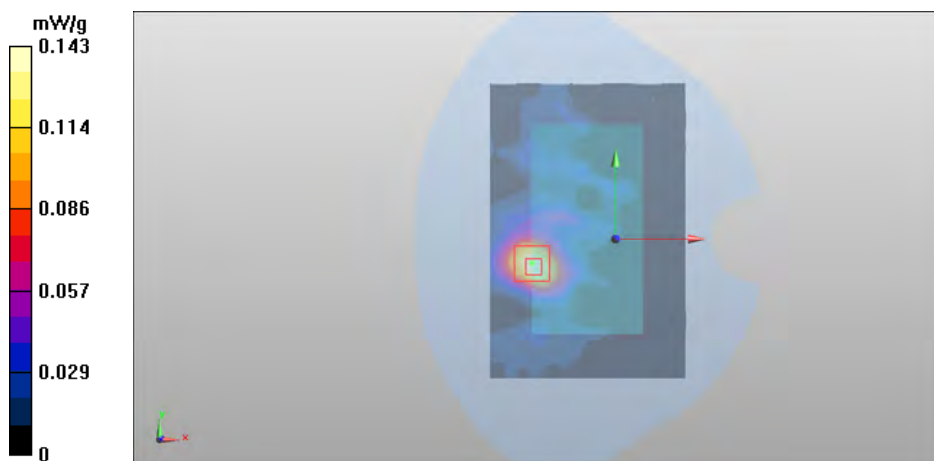
Peak SAR (extrapolated) = 0.328 mW/g

SAR(1 g) = 0.089 mW/g

SAR(10 g) = 0.036 mW/g

Power Drift = -0.09 dB

Maximum value of SAR (measured) = 0.152 mW/g



Date/Time: 2012-08-04 13:02:48

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode

Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: BSL5000; Medium Notes: $t = 21.4$ C

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.842$ mho/m; $\epsilon_r = 47.952$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(3.5, 3.5, 3.5); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM2; Type: SAM; Serial: TP-1570
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WLAN/Body - Channel 100 - Spacer 15mm - No Accessory - Display Facing Phantom/Area Scan (121x181x1):

Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 0.0807 mW/g

WLAN/Body - Channel 100 - Spacer 15mm - No Accessory - Display Facing Phantom/Zoom Scan (8x8x12)/Cube

0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.957 V/m

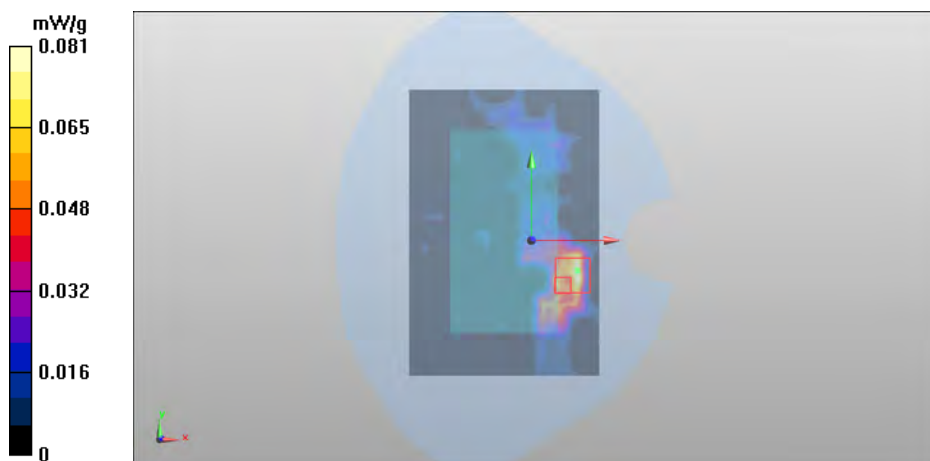
Peak SAR (extrapolated) = 0.427 mW/g

SAR(1 g) = 0.037 mW/g

SAR(10 g) = 0.014 mW/g

Power Drift = -0.59 dB

Maximum value of SAR (measured) = 0.0775 mW/g



Date/Time: 2012-08-03 04:12:08

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode

Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: BSL5200; Medium Notes: 20.8 C

Medium parameters used: $f = 5220$ MHz; $\sigma = 5.493$ mho/m; $\epsilon_r = 48.671$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(3.99, 3.99, 3.99); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM2; Type: SAM; Serial: TP-1570
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WLAN/Body - Channel 44 - Spacer 15mm - WH-902 - Display Facing Phantom/Area Scan (121x181x1):

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.0683 mW/g

WLAN/Body - Channel 44 - Spacer 15mm - WH-902 - Display Facing Phantom/Zoom Scan (8x8x12)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.638 V/m

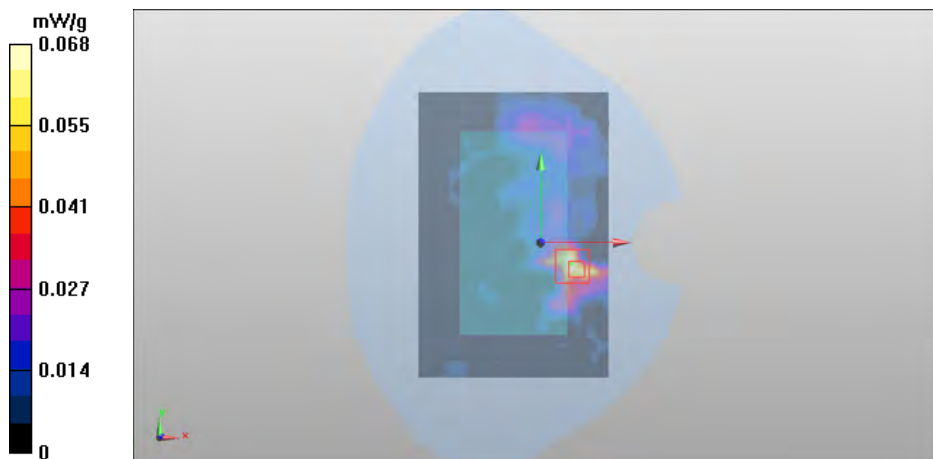
Peak SAR (extrapolated) = 0.263 mW/g

SAR(1 g) = 0.033 mW/g

SAR(10 g) = 0.013 mW/g

Power Drift = -0.44 dB

Maximum value of SAR (measured) = 0.0648 mW/g



Date/Time: 2012-08-06 21:35:58

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 n-mode

Frequency: 5620 MHz; Duty Cycle: 1:1

Medium: BSL5000; Medium Notes: $t = 21.4$ C

Medium parameters used: $f = 5620$ MHz; $\sigma = 6.008$ mho/m; $\epsilon_r = 48.264$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(3.28, 3.28, 3.28); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM2; Type: SAM; Serial: TP-1570
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WLAN/Body - Channel 124 - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (121x181x1):

Measurement grid: $dx=10$ mm, $dy=10$ mm

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

WLAN/Body - Channel 124 - Spacer 15mm - No Accessory - Back Facing Phantom /Zoom Scan (8x8x12)/Cube 0:

Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.097 V/m

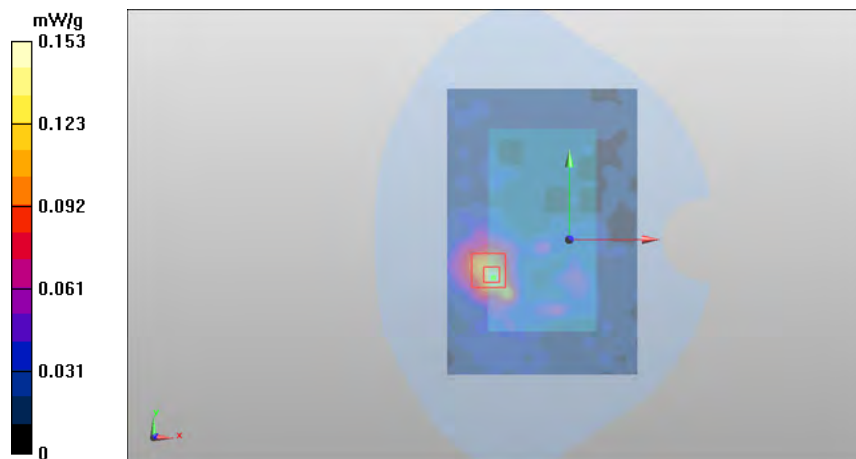
Peak SAR (extrapolated) = 0.281 mW/g

SAR(1 g) = 0.075 mW/g

SAR(10 g) = 0.030 mW/g

Power Drift = 4.58 dB

Maximum value of SAR (measured) = 0.147 mW/g



Date/Time: 2012-07-20 08:10:25, Date/Time: 2012-07-20 18:42:09

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2, Serial: C1A138223/G1

Communication System: LTE750 (Band 13), Communication System: WLAN2450 b-mode

Frequency: 782 MHz, Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: BSL750, Medium: BSL2450; Medium Notes: t= 21.2, Medium Notes: t= 21.3 C

Medium parameters used: f = 782 MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 53.7$; $\rho = 1000$ kg/m³, Medium parameters used:
f = 2437 MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165, Probe: EX3DV4 - SN3573
- ConvF(6.06, 6.06, 6.06), ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-21, Calibrated: 2012-02-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
- Electronics: DAE4 Sn1309, Electronics: DAE4 Sn793; Calibrated: 2012-01-11, Calibrated: 2011-09-16
- Phantom: SAM #3 CRP, Phantom: SAM 2; Type: SAM, Type: Twin SAM 040 CA; Serial: Serial: TP - 1177
- Measurement SW: DASY52, V52.8 Build 1, Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.0 Build 61

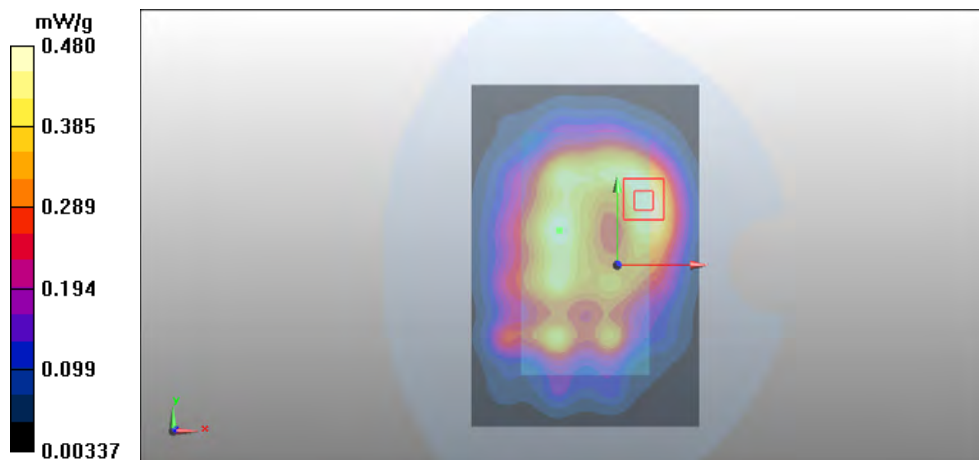
LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

WLAN/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (13x19x1): Measurement grid: dx=10mm, dy=10mm

Motorola Fast SAR of Combined Scans: SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.306 mW/g

Maximum value of SAR (measured) = 0.480 mW/g



Date/Time: 2012-07-21 20:23:55, Date/Time: 2012-07-20 18:42:09

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1, Serial: C1A138223/G1

Communication System: CDMA800 RC3/S055, Communication System: WLAN2450 b-mode

Frequency: 836.52 MHz, Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: MSL835, Medium: BSL2450; Medium Notes: T=20.3, Medium Notes: t= 21.3 C

Medium parameters used: $f = 837$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 55.9$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 2437$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

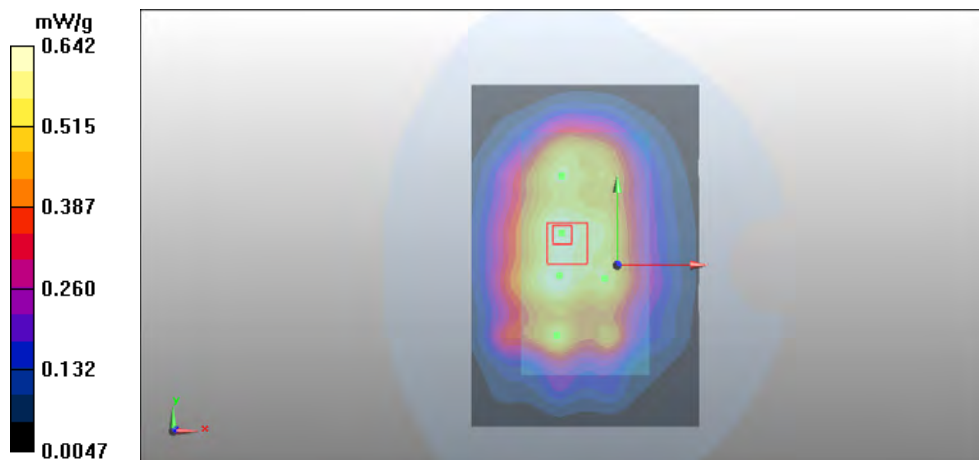
- Probe: ET3DV6R - SN1399, Probe: EX3DV4 - SN3573
- ConvF(5.83, 5.83, 5.83), ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-10, Calibrated: 2012-02-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
- Electronics: DAE4 Sn1301, Electronics: DAE4 Sn793; Calibrated: 2011-10-27, Calibrated: 2011-09-16
- Phantom: SAM3, Phantom: SAM 2; Type: SAM, Type: Twin SAM 040 CA; Serial: TP-1399, Serial: TP - 1177
- Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.0 Build 61

Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

WLAN/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (13x19x1): Measurement grid: dx=10mm, dy=10mm

Motorola Fast SAR of Combined Scans: SAR(1 g) = 0.597 mW/g; SAR(10 g) = 0.418 mW/g

Maximum value of SAR (measured) = 0.642 mW/g



Date/Time: 2012-07-29 17:29:02, Date/Time: 2012-07-20 17:26:24

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1, Serial: C1A138223/G1

Communication System: 4-slot GPRS850, Communication System: WLAN2450 b-mode

Frequency: 836.6 MHz, Frequency: 2437 MHz; Duty Cycle: 1:2.09991, Duty Cycle: 1:1

Medium: BSL850, Medium: BSL2450; Medium Notes: $t = 21.0$ C, Medium Notes: $t = 21.3$ C

Medium parameters used: $f = 837$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³, Medium parameters used:
 $f = 2437$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131, Probe: EX3DV4 - SN3573
- ConvF(5.92, 5.92, 5.92), ConvF(6.45, 6.45, 6.45); Calibrated: 2011-09-14, Calibrated: 2012-02-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316, Electronics: DAE4 Sn793; Calibrated: 2012-02-15, Calibrated: 2011-09-16
- Phantom: SAM 3, Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP-1179, Serial: TP - 1177
- Measurement SW: DASY52, V52.8 Build 0, Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.0 Build 61

4-slot GPRS/Body - Middle - Spacer 15mm - No Accessory - Display Facing Phantom/Area Scan (9x13x1):

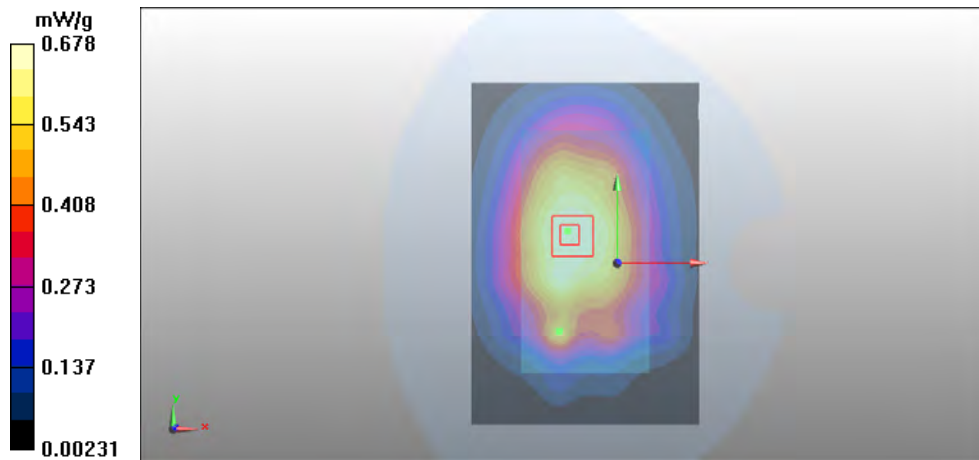
Measurement grid: $dx=15$ mm, $dy=15$ mm

WLAN/Body - Middle US - Spacer 15mm - No Accessory - Display Facing Phantom/Area Scan (13x19x1):

Measurement grid: $dx=10$ mm, $dy=10$ mm

Motorola Fast SAR of Combined Scans: SAR(1 g) = 0.642 mW/g; SAR(10 g) = 0.461 mW/g

Maximum value of SAR (measured) = 0.678 mW/g



Date/Time: 2012-07-26 16:18:43, Date/Time: 2012-07-20 18:42:09

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1, Serial: C1A138223/G1

Communication System: WCDMA850, Communication System: WLAN2450 b-mode

Frequency: 835 MHz, Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M900, Medium: BSL2450; Medium Notes: T=20.6, Medium Notes: t= 21.3 C

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.978 \text{ mho/m}$; $\epsilon_r = 55.2$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used:
 $f = 2437 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 51.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399, Probe: EX3DV4 - SN3573
- ConvF(5.83, 5.83, 5.83), ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-10, Calibrated: 2012-02-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
- Electronics: DAE4 Sn1301, Electronics: DAE4 Sn793; Calibrated: 2011-10-27, Calibrated: 2011-09-16
- Phantom: SAM2, Phantom: SAM 2; Type: Twin Phantom, Type: Twin SAM 040 CA; Serial: TP-1279, Serial: TP - 1177
- Measurement SW: DASY52, V52.8 Build 1, Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.0 Build 61

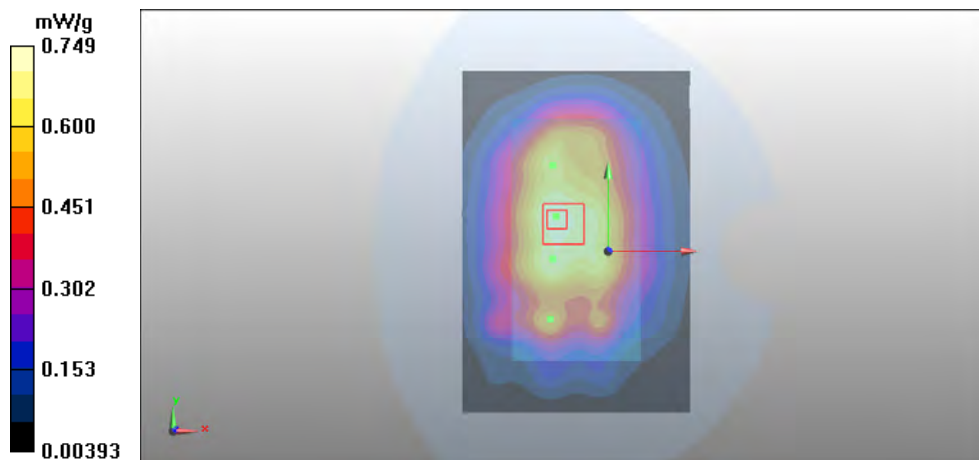
WCDMA800/Body - Mid dle- Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

WLAN/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (13x19x1): Measurement grid: dx=10mm, dy=10mm

Motorola Fast SAR of Combined Scans: SAR(1 g) = 0.695 mW/g; SAR(10 g) = 0.487 mW/g

Maximum value of SAR (measured) = 0.749 mW/g



Date/Time: 2012-07-18 22:50:12, Date/Time: 2012-07-20 20:29:40

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2, Serial: C1A138223/G1

Communication System: CDMA1900 RC3/S055, Communication System: WLAN2450 b-mode

Frequency: 1880 MHz, Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: MSL1900, Medium: BSL2450; Medium Notes: T=21.9, Medium Notes: t= 21.3 C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 2462$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

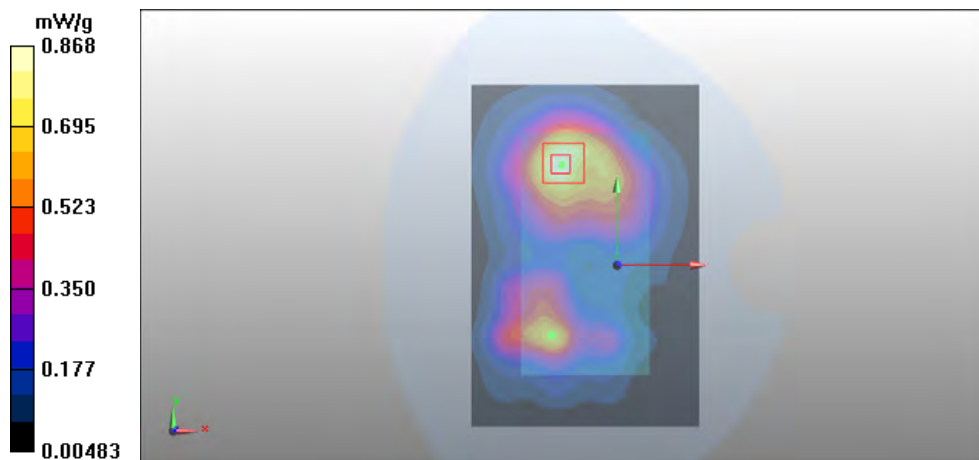
- Probe: ET3DV6 - SN1739, Probe: EX3DV4 - SN3573
- ConvF(4.54, 4.54, 4.54), ConvF(6.45, 6.45, 6.45); Calibrated: 2011-09-22, Calibrated: 2012-02-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
- Electronics: DAE4 Sn701, Electronics: DAE4 Sn793; Calibrated: 2011-07-21, Calibrated: 2011-09-16
- Phantom: SAM 2; Type: QD000P40CD, Type: Twin SAM 040 CA; Serial: TP1701, Serial: TP - 1177
- Measurement SW: DASY52, V52.8 Build 1, Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.0 Build 61

CDMA/Body-Middle-Spacer 15mm-WH-902-Back Facing Phantom/Area Scan (9x13x1): Measurement grid:
dx=15mm, dy=15mm

WLAN/Body - High - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan (13x19x1): Measurement grid:
dx=10mm, dy=10mm

Motorola Fast SAR of Combined Scans: SAR(1 g) = 0.787 mW/g; SAR(10 g) = 0.460 mW/g

Maximum value of SAR (measured) = 0.868 mW/g



Date/Time: 2012-07-27 22:21:59, Date/Time: 2012-07-20 20:29:40

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2, Serial: C1A138223/G1

Communication System: 2-slot GPRS1900, Communication System: WLAN2450 b-mode

Frequency: 1880 MHz; Frequency: 2462 MHz; Duty Cycle: 1:4.19952, Duty Cycle: 1:1

Medium: MSL1900, Medium: BSL2450; Medium Notes: T=21.6, Medium Notes: t= 21.3 C

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used:
 $f = 2462 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 51.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

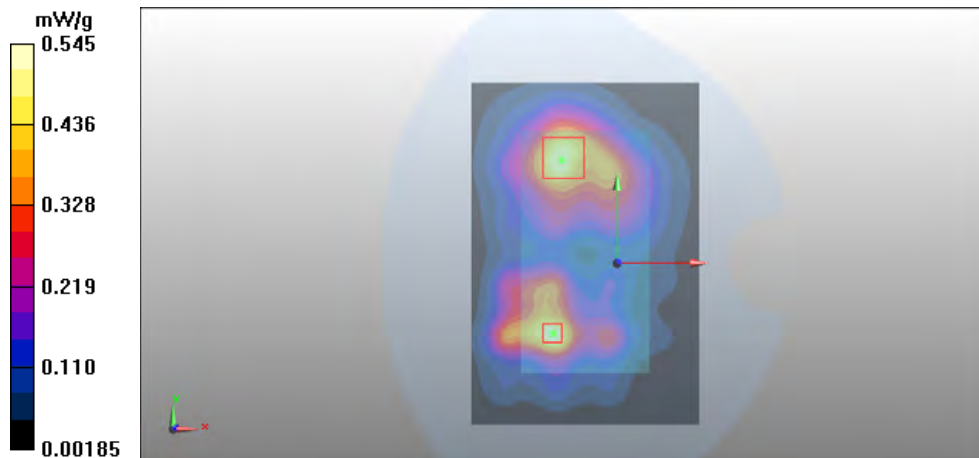
- Probe: ET3DV6 - SN1739, Probe: EX3DV4 - SN3573
- ConvF(4.54, 4.54, 4.54), ConvF(6.45, 6.45, 6.45); Calibrated: 2011-09-22, Calibrated: 2012-02-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
- Electronics: DAE4 Sn756, Electronics: DAE4 Sn793; Calibrated: 2011-08-26, Calibrated: 2011-09-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, V52.8 Build 1, Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.0 Build 61

2-slot GPRS/Body - Middle - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

WLAN/Body - High - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan (13x19x1): Measurement grid: dx=10mm, dy=10mm

Motorola Fast SAR of Combined Scans: SAR(1 g) = 0.462 mW/g; SAR(10 g) = 0.265 mW/g

Maximum value of SAR (measured) = 0.545 mW/g



Date/Time: 2012-07-21 00:52:26, Date/Time: 2012-07-20 20:29:40

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1, Serial: C1A138223/G1

Communication System: WCDMA1900, Communication System: WLAN2450 b-mode

Frequency: 1880 MHz, Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: MSL1900, Medium: BSL2450; Medium Notes:, Medium Notes: t= 21.3 C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³, Medium parameters used:
 $f = 2462$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

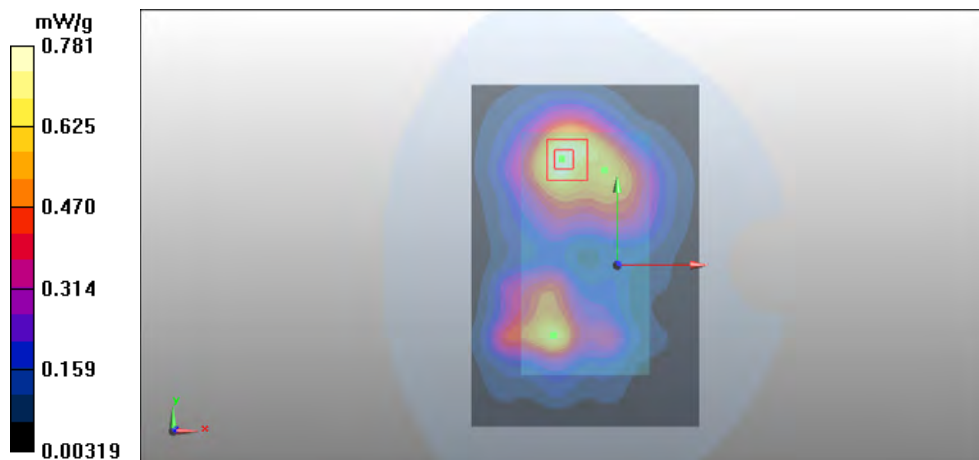
- Probe: ET3DV6 - SN1739, Probe: EX3DV4 - SN3573
- ConvF(4.54, 4.54, 4.54), ConvF(6.45, 6.45, 6.45); Calibrated: 2011-09-22, Calibrated: 2012-02-23
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
- Electronics: DAE4 Sn756, Electronics: DAE4 Sn793; Calibrated: 2011-08-26, Calibrated: 2011-09-16
- Phantom: SAM 2; Type: QD000P40CD, Type: Twin SAM 040 CA; Serial: TP1701, Serial: TP - 1177
- Measurement SW: DASY52, V52.8 Build 1, Measurement SW: DASY4, V4.7 Build 80; SEMCAD X Version 14.0 Build 61

WCDMA/Body-Middle-Spacer 15mm-WH-902-Back Facing Phantom /Area Scan (9x13x1): Measurement grid:
dx=15mm, dy=15mm

WLAN/Body - High - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan (13x19x1): Measurement grid:
dx=10mm, dy=10mm

Motorola Fast SAR of Combined Scans: SAR(1 g) = 0.711 mW/g; SAR(10 g) = 0.420 mW/g

Maximum value of SAR (measured) = 0.781 mW/g



Date/Time: 2012-07-20 08:10:25, Date/Time: 2012-08-03 01:59:15

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2, Serial: C1A138344/G4

Communication System: LTE750 (Band 13), Communication System: WLAN5000 a-mode

Frequency: 782 MHz, Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: BSL750, Medium: BSL5200; Medium Notes: $t = 21.2$, Medium Notes: 20.8 C

Medium parameters used: $f = 782$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 53.7$; $\rho = 1000$ kg/m³, Medium parameters used:
 $f = 5220$ MHz; $\sigma = 5.49$ mho/m; $\epsilon_r = 48.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

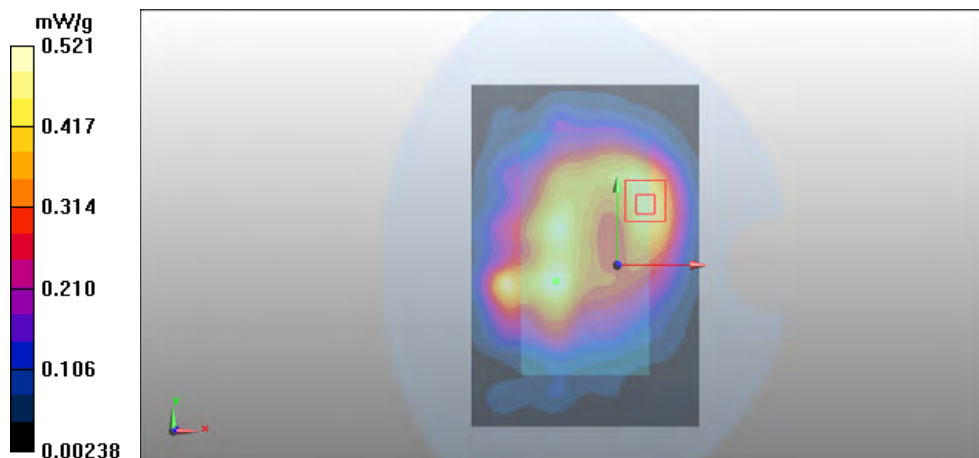
- Probe: ES3DV3 - SN3165, Probe: EX3DV4 - SN3834
- ConvF(6.06, 6.06, 6.06), ConvF(3.99, 3.99, 3.99); Calibrated: 2012-02-21, Calibrated: 2012-02-07
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))
- Electronics: DAE4 Sn1309, Electronics: DAE4 Sn1213; Calibrated: 2012-01-11, Calibrated: 2012-02-14
- Phantom: SAM #3 CRP, Phantom: SAM2; Type: SAM; Serial: TP-1570
- Measurement SW: DASY52, V52.8 Build 1; SEMCAD X Version 14.0 Build 61

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

WLAN/Body - Channel 44 - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (13x19x1): Measurement grid: dx=10mm, dy=10mm

Motorola Fast SAR of Combined Scans: SAR(1 g) = 0.445 mW/g; SAR(10 g) = 0.307 mW/g

Maximum value of SAR (measured) = 0.521 mW/g



Date/Time: 2012-07-21 20:23:55, Date/Time: 2012-08-03 01:59:15

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1, Serial: C1A138344/G4

Communication System: CDMA800 RC3/S055, Communication System: WLAN5000 a-mode

Frequency: 836.52 MHz, Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: MSL835, Medium: BSL5200; Medium Notes: T=20.3, Medium Notes: 20.8 C

Medium parameters used: $f = 837$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 55.9$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5220$ MHz; $\sigma = 5.49$ mho/m; $\epsilon_r = 48.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399, Probe: EX3DV4 - SN3834

- ConvF(5.83, 5.83, 5.83), ConvF(3.99, 3.99, 3.99); Calibrated: 2012-02-10, Calibrated: 2012-02-07

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))

- Electronics: DAE4 Sn1301, Electronics: DAE4 Sn1213; Calibrated: 2011-10-27, Calibrated: 2012-02-14

- Phantom: SAM3, Phantom: SAM2; Type: SAM; Serial: TP-1399, Serial: TP-1570

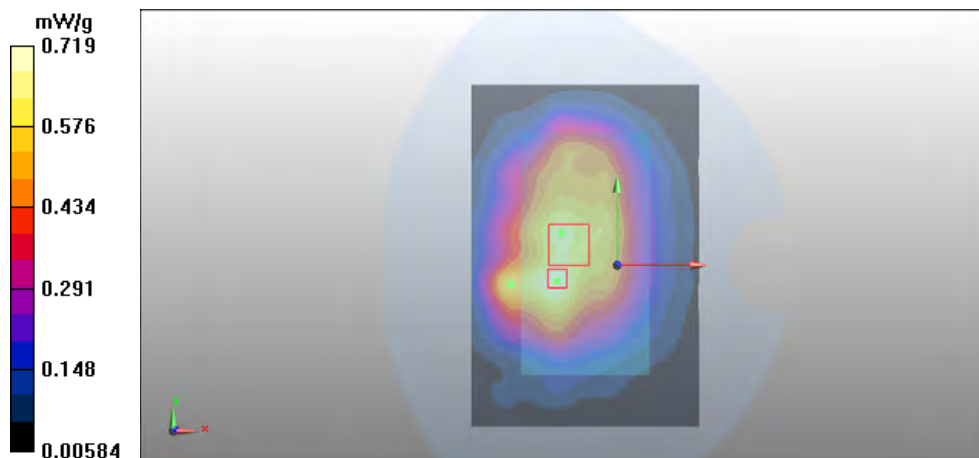
- Measurement SW: DASY4, V4.7 Build 80, Measurement SW: DASY52, V52.8 Build 1; SEMCAD X Version 14.0 Build 61

CDMA/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

WLAN/Body - Channel 44 - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (13x19x1): Measurement grid: dx=10mm, dy=10mm

Motorola Fast SAR of Combined Scans: SAR(1 g) = 0.592 mW/g; SAR(10 g) = 0.407 mW/g

Maximum value of SAR (measured) = 0.719 mW/g



Date/Time: 2012-07-29 17:29:02, Date/Time: 2012-08-04 13:02:48

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1, Serial: C1A138344/G4

Communication System: 4-slot GPRS850, Communication System: WLAN5000 a-mode

Frequency: 836.6 MHz, Frequency: 5500 MHz; Duty Cycle: 1:2.09991, Duty Cycle: 1:1

Medium: BSL850, Medium: BSL5000; Medium Notes: $t = 21.0$ C, Medium Notes: $t = 21.4$ C

Medium parameters used: $f = 837$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³, Medium parameters used:
 $f = 5500$ MHz; $\sigma = 5.84$ mho/m; $\epsilon_r = 48$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131, Probe: EX3DV4 - SN3834
- ConvF(5.92, 5.92, 5.92), ConvF(3.5, 3.5, 3.5); Calibrated: 2011-09-14, Calibrated: 2012-02-07
- Sensor-Surface: 4mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))
- Electronics: DAE4 Sn1316, Electronics: DAE4 Sn1213; Calibrated: 2012-02-15, Calibrated: 2012-02-14
- Phantom: SAM 3, Phantom: SAM2; Type: Twin SAM 040 CA, Type: SAM; Serial: TP-1179, Serial: TP-1570
- Measurement SW: DASY52, V52.8 Build 0, Measurement SW: DASY52, V52.8 Build 1; SEMCAD X Version 14.0 Build 61

4-slot GPRS/Body - Middle - Spacer 15mm - No Accessory - Display Facing Phantom/Area Scan (9x13x1):

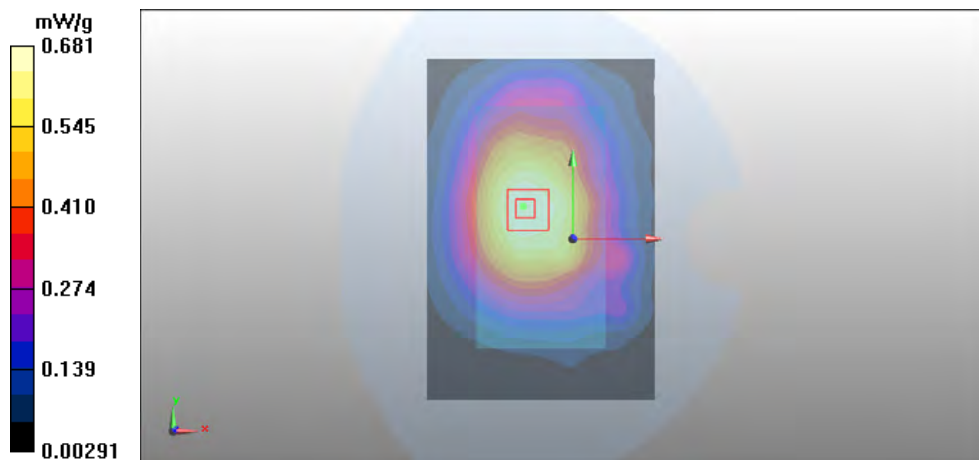
Measurement grid: $dx=15$ mm, $dy=15$ mm

WLAN/Body - Channel 100 - Spacer 15mm - No Accessory - Display Facing Phantom/Area Scan (13x19x1):

Measurement grid: $dx=10$ mm, $dy=10$ mm

Motorola Fast SAR of Combined Scans: SAR(1 g) = 0.641 mW/g; SAR(10 g) = 0.459 mW/g

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



Date/Time: 2012-07-26 16:18:43, Date/Time: 2012-08-03 01:59:15

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1, Serial: C1A138344/G4

Communication System: WCDMA850, Communication System: WLAN5000 a-mode

Frequency: 835 MHz; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: M900, Medium: BSL5200; Medium Notes: T=20.6, Medium Notes: 20.8 C

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.978 \text{ mho/m}$; $\epsilon_r = 55.2$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.49 \text{ mho/m}$; $\epsilon_r = 48.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399, Probe: EX3DV4 - SN3834

- ConvF(5.83, 5.83, 5.83), ConvF(3.99, 3.99, 3.99); Calibrated: 2012-02-10, Calibrated: 2012-02-07

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))

- Electronics: DAE4 Sn1301, Electronics: DAE4 Sn1213; Calibrated: 2011-10-27, Calibrated: 2012-02-14

- Phantom: SAM2; Type: Twin Phantom, Type: SAM; Serial: TP-1279, Serial: TP-1570

- Measurement SW: DASY52, V52.8 Build 1; SEMCAD X Version 14.0 Build 61

WCDMA/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom /Area Scan (9x13x1):

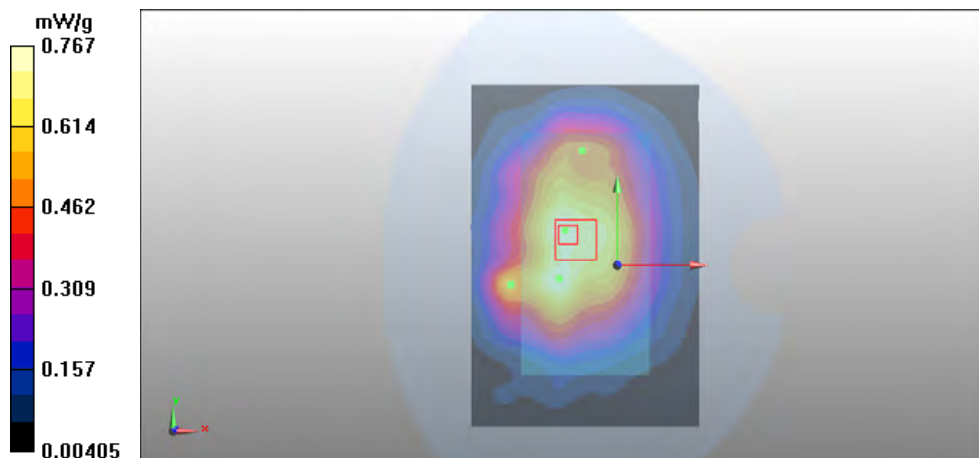
Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

WLAN/Body - Channel 44 - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (13x19x1):

Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Motorola Fast SAR of Combined Scans: SAR(1 g) = 0.677 mW/g; SAR(10 g) = 0.477 mW/g

Maximum value of SAR (measured) = 0.767 mW/g



Date/Time: 2012-07-18 22:50:12, Date/Time: 2012-08-03 05:25:40

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2, Serial: C1A138344/G4

Communication System: CDMA1900 RC3/S055, Communication System: WLAN5000 a-mode

Frequency: 1880 MHz, Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: MSL1900, Medium: BSL5200; Medium Notes: T=21.9, Medium Notes: 20.8 C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5220$ MHz; $\sigma = 5.49$ mho/m; $\epsilon_r = 48.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

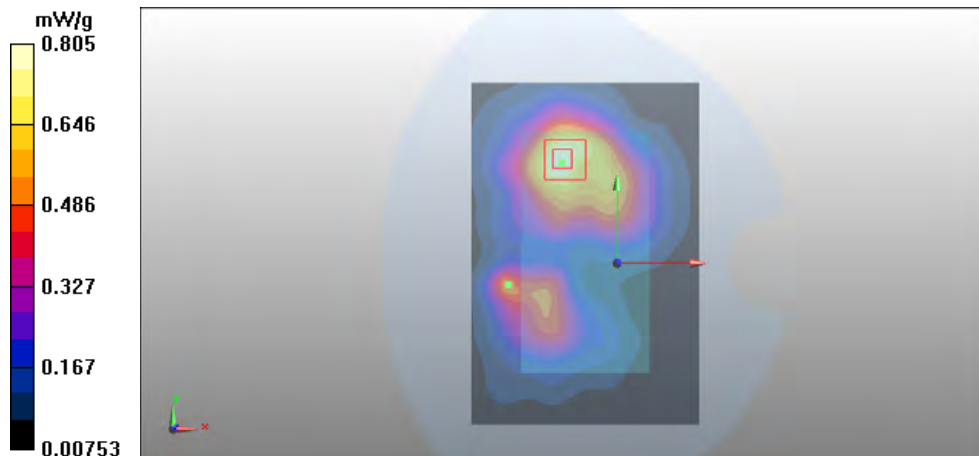
- Probe: ET3DV6 - SN1739, Probe: EX3DV4 - SN3834
- ConvF(4.54, 4.54, 4.54), ConvF(3.99, 3.99, 3.99); Calibrated: 2011-09-22, Calibrated: 2012-02-07
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))
- Electronics: DAE4 Sn701, Electronics: DAE4 Sn1213; Calibrated: 2011-07-21, Calibrated: 2012-02-14
- Phantom: SAM 2, Phantom: SAM2; Type: QD000P40CD, Type: SAM; Serial: TP1701, Serial: TP-1570
- Measurement SW: DASY52, V52.8 Build 1; SEMCAD X Version 14.0 Build 61

CDMA/Body-Middle-Spacer 15mm-WH-902-Back Facing Phantom/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

WLAN/Body - Channel 44 - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan (13x19x1): Measurement grid: dx=10mm, dy=10mm

Motorola Fast SAR of Combined Scans: SAR(1 g) = 0.715 mW/g; SAR(10 g) = 0.428 mW/g

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



Date/Time: 2012-07-27 22:06:02, Date/Time: 2012-08-03 01:59:15

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2, Serial: C1A138344/G4

Communication System: 2-slot GPRS1900, Communication System: WLAN5000 a-mode

Frequency: 1880 MHz; Frequency: 5220 MHz; Duty Cycle: 1:4.19952, Duty Cycle: 1:1

Medium: MSL1900, Medium: BSL5200; Medium Notes: T=21.6, Medium Notes: 20.8 C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5220$ MHz; $\sigma = 5.49$ mho/m; $\epsilon_r = 48.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739, Probe: EX3DV4 - SN3834

- ConvF(4.54, 4.54, 4.54), ConvF(3.99, 3.99, 3.99); Calibrated: 2011-09-22, Calibrated: 2012-02-07

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))

- Electronics: DAE4 Sn756, Electronics: DAE4 Sn1213; Calibrated: 2011-08-26, Calibrated: 2012-02-14

- Phantom: SAM 2, Phantom: SAM2; Type: Twin SAM 040 CA, Type: SAM; Serial: TP - 1177, Serial: TP-1570

- Measurement SW: DASY52, V52.8 Build 1; SEMCAD X Version 14.0 Build 61

2-slot GPRS/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (9x13x1):

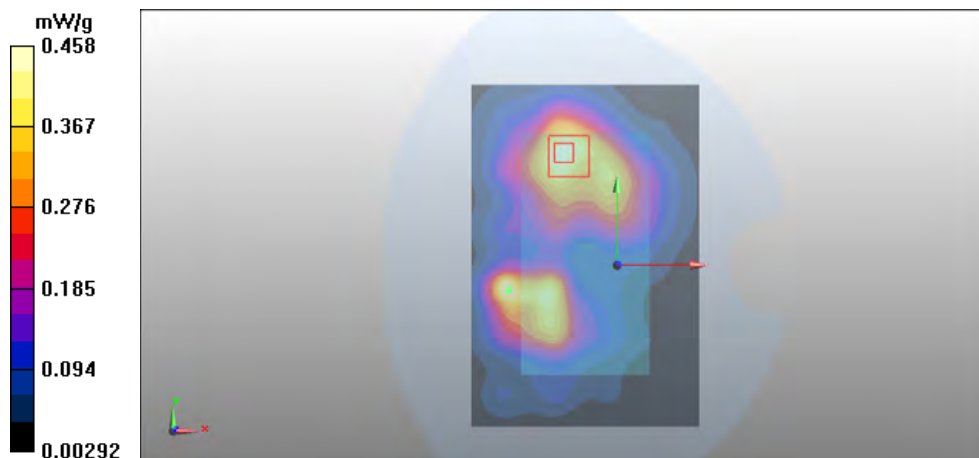
Measurement grid: dx=15mm, dy=15mm

WLAN/Body - Channel 44 - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (13x19x1):

Measurement grid: dx=10mm, dy=10mm

Motorola Fast SAR of Combined Scans: SAR(1 g) = 0.392 mW/g; SAR(10 g) = 0.232 mW/g

Maximum value of SAR (measured) = 0.458 mW/g



Date/Time: 2012-07-21 00:52:26, Date/Time: 2012-08-03 05:25:40

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1, Serial: C1A138344/G4

Communication System: WCDMA1900, Communication System: WLAN5000 a-mode

Frequency: 1880 MHz; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: MSL1900, Medium: BSL5200; Medium Notes:, Medium Notes: 20.8 C

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used:
 $f = 5220 \text{ MHz}$; $\sigma = 5.49 \text{ mho/m}$; $\epsilon_r = 48.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

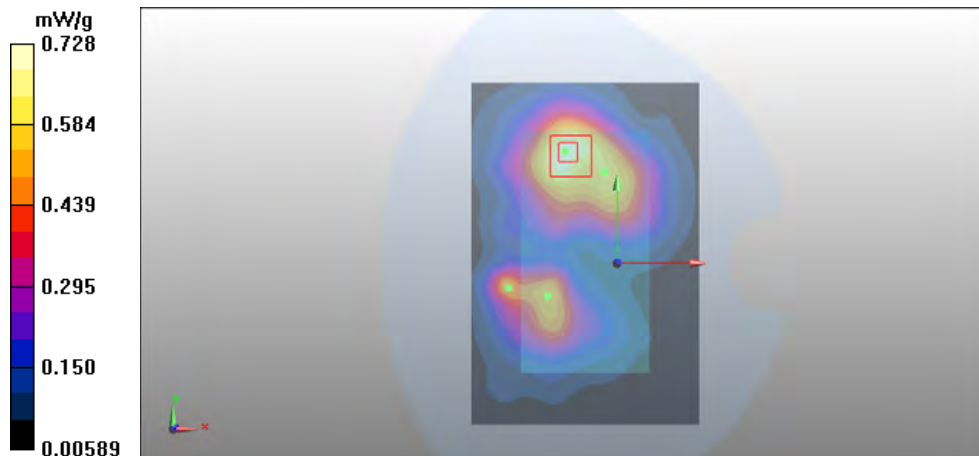
- Probe: ET3DV6 - SN1739, Probe: EX3DV4 - SN3834
- ConvF(4.54, 4.54, 4.54), ConvF(3.99, 3.99, 3.99); Calibrated: 2011-09-22, Calibrated: 2012-02-07
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))
- Electronics: DAE4 Sn756, Electronics: DAE4 Sn1213; Calibrated: 2011-08-26, Calibrated: 2012-02-14
- Phantom: SAM 2, Phantom: SAM2; Type: QD000P40CD, Type: SAM; Serial: TP1701, Serial: TP-1570
- Measurement SW: DASY52, V52.8 Build 1; SEMCAD X Version 14.0 Build 61

WCDMA/Body-Middle-Spacer 15mm-WH-902- Back Facing Phantom /Area Scan (9x13x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

WLAN/Body - Channel 44 - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan (13x19x1): Measurement
grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Motorola Fast SAR of Combined Scans: SAR(1 g) = 0.651 mW/g; SAR(10 g) = 0.390 mW/g

Maximum value of SAR (measured) = 0.728 mW/g



APPENDIX B.3: WIRELESS ROUTER MEASUREMENT SCANS

Date/Time: 2012-07-20 17:59:32

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 53.736$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 100% RB - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.571 mW/g

LTE/Body - Middle - QPSK - 10MHz - 100% RB - Spacer 10mm - No Accessory - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.095 V/m

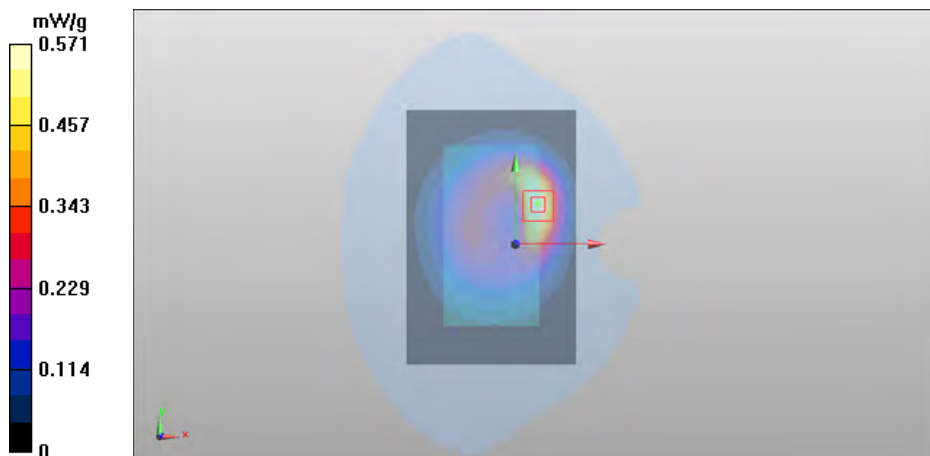
Peak SAR (extrapolated) = 0.812 mW/g

SAR(1 g) = 0.532 mW/g

SAR(10 g) = 0.332 mW/g

Power Drift = -0.06 dB

Maximum value of SAR (measured) = 0.594 mW/g



Date/Time: 2012-07-20 18:22:23

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 53.736$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 50% RB - 50% offset - Spacer 10mm - No Accessory - Back Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.611 mW/g

LTE/Body - Middle - QPSK - 10MHz - 50% RB - 50% offset - Spacer 10mm - No Accessory - Back Facing

Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.659 V/m

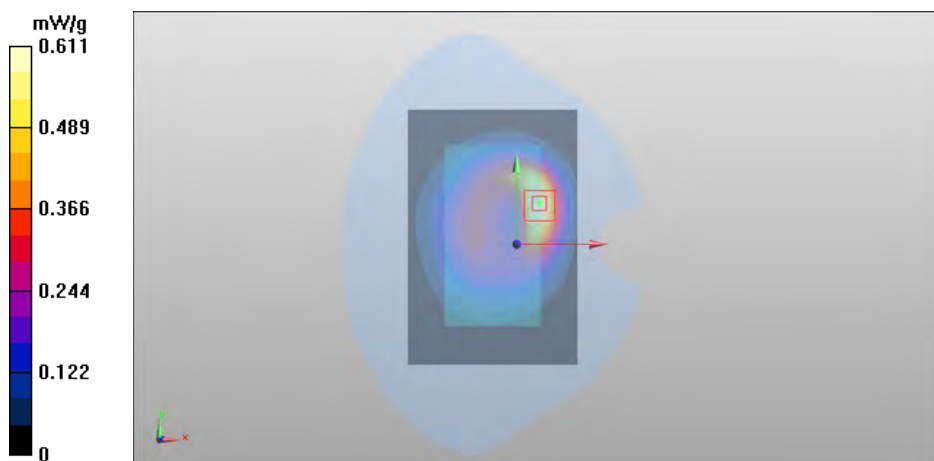
Peak SAR (extrapolated) = 0.859 mW/g

SAR(1 g) = 0.571 mW/g

SAR(10 g) = 0.358 mW/g

Power Drift = 0.01 dB

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



Date/Time: 2012-07-20 18:39:57

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: $f = 782$ MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 53.736$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 10mm - No Accessory - Back Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.827 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 10mm - No Accessory - Back Facing

Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 19.385 V/m

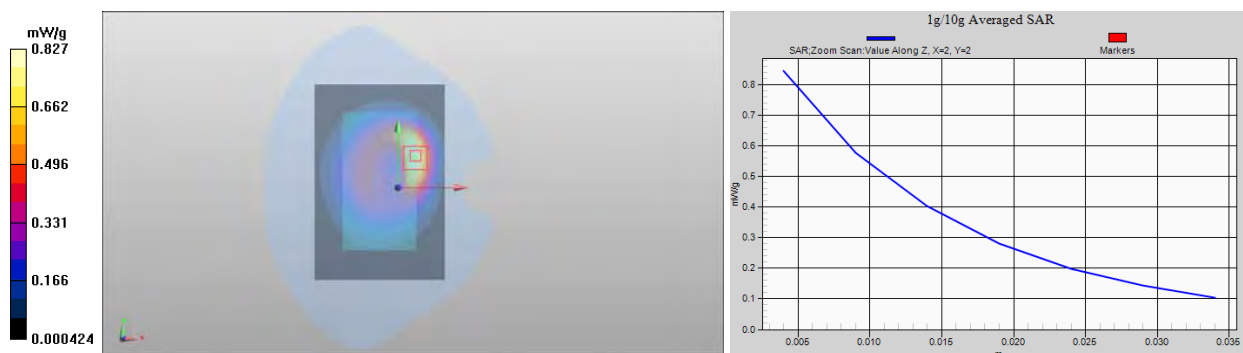
Peak SAR (extrapolated) = 1.145 mW/g

SAR(1 g) = 0.766 mW/g

SAR(10 g) = 0.481 mW/g

Power Drift = 0.06 dB

Maximum value of SAR (measured) = 0.846 mW/g



SAR Report

Appendix B.3 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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Date/Time: 2012-07-23 07:44:49

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 20.9 C

Medium parameters used: f = 782 MHz; σ = 1 mho/m; ϵ_r = 53.636; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 10mm - No Accessory - Display Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.374 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 10mm - No Accessory - Display Facing

Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.325 V/m

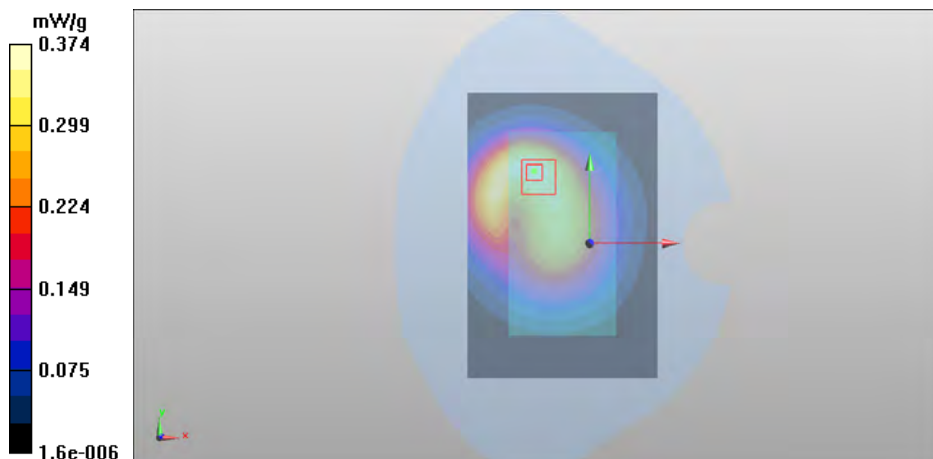
Peak SAR (extrapolated) = 0.483 mW/g

SAR(1 g) = 0.342 mW/g

SAR(10 g) = 0.237 mW/g

Power Drift = 0.03 dB

Maximum value of SAR (measured) = 0.366 mW/g



Date/Time: 2012-07-23 09:30:54

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 20.9 C

Medium parameters used: f = 782 MHz; σ = 1 mho/m; ϵ_r = 53.636; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 10mm - No Accessory - Top Edge Facing

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

Maximum value of SAR (interpolated) = 0.0227 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 10mm - No Accessory - Top Edge Facing

Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.605 V/m

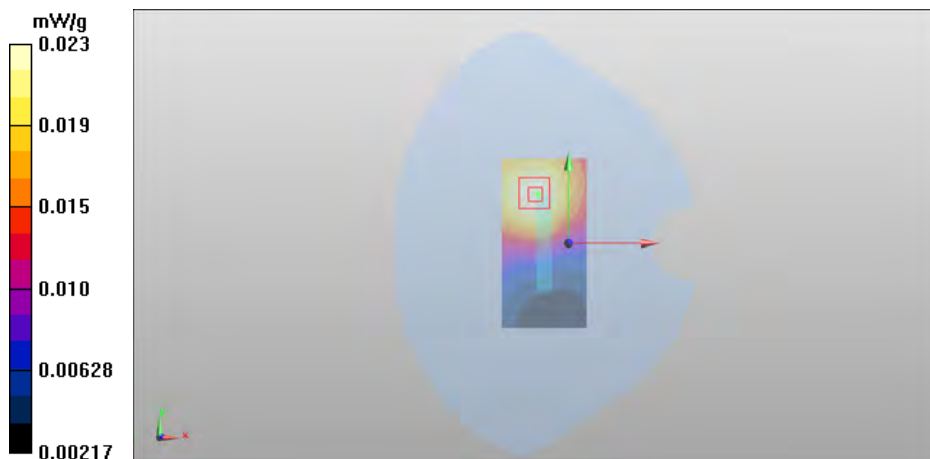
Peak SAR (extrapolated) = 0.030 mW/g

SAR(1 g) = 0.022 mW/g

SAR(10 g) = 0.016 mW/g

Power Drift = 0.20 dB

Maximum value of SAR (measured) = 0.0233 mW/g



Date/Time: 2012-07-23 09:47:26

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 20.9 C

Medium parameters used: f = 782 MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.636$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 10mm - No Accessory - Bottom Edge Facing

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

Maximum value of SAR (interpolated) = 0.0789 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 10mm - No Accessory - Bottom Edge Facing

Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.166 V/m

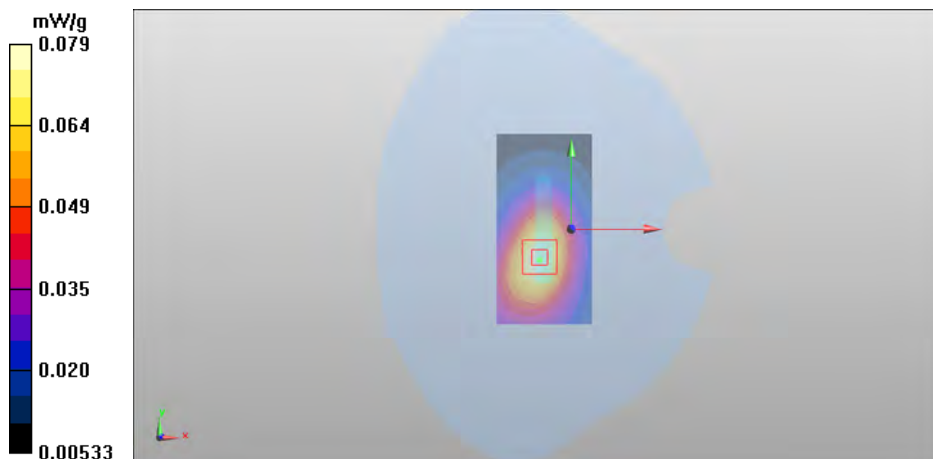
Peak SAR (extrapolated) = 0.099 mW/g

SAR(1 g) = 0.073 mW/g

SAR(10 g) = 0.050 mW/g

Power Drift = 0.03 dB

Maximum value of SAR (measured) = 0.0776 mW/g



Date/Time: 2012-07-23 09:00:34

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 20.9 C

Medium parameters used: f = 782 MHz; σ = 1 mho/m; ϵ_r = 53.636; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 10mm - No Accessory - Left Edge Facing

Phantom/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.124 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 10mm - No Accessory - Left Edge Facing

Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.617 V/m

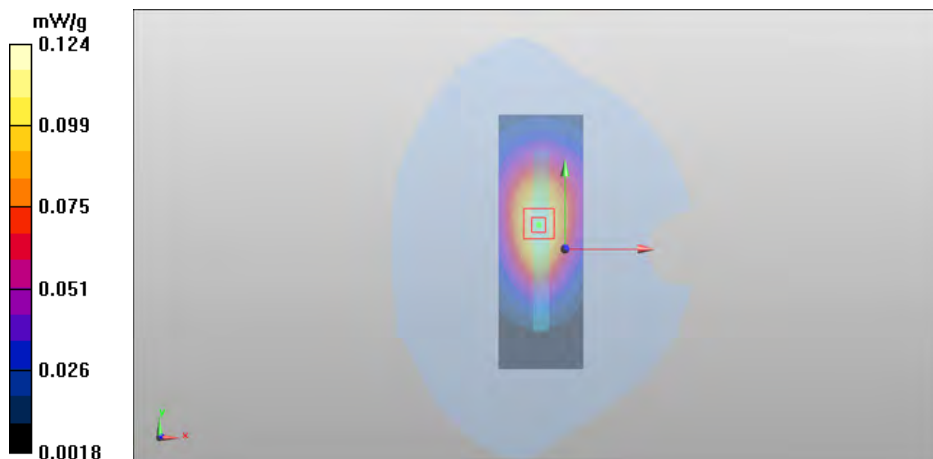
Peak SAR (extrapolated) = 0.167 mW/g

SAR(1 g) = 0.116 mW/g

SAR(10 g) = 0.079 mW/g

Power Drift = 0.04 dB

Maximum value of SAR (measured) = 0.125 mW/g



Date/Time: 2012-07-23 08:28:14

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 20.9 C

Medium parameters used: f = 782 MHz; σ = 1 mho/m; ϵ_r = 53.636; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 10mm - No Accessory - Right Edge Facing

Phantom/Area Scan (41x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.797 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 10mm - No Accessory - Right Edge Facing

Phantom/Zoom Scan 3 (5x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.963 V/m

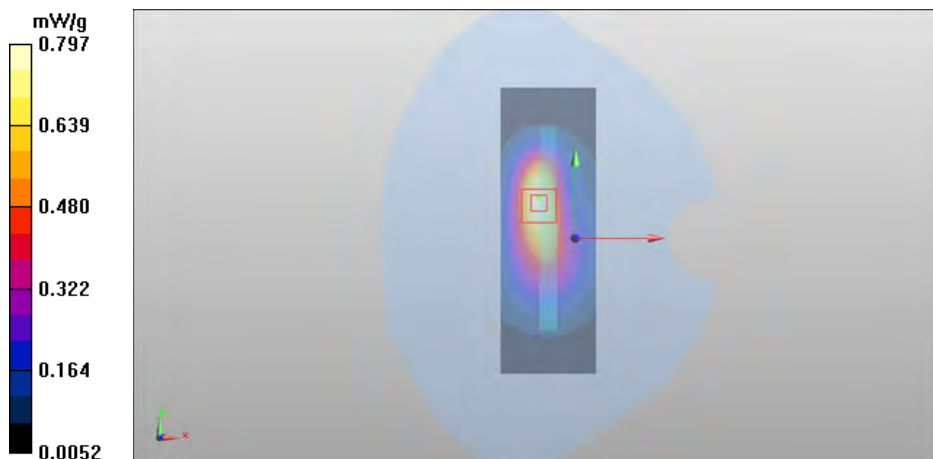
Peak SAR (extrapolated) = 1.079 mW/g

SAR(1 g) = 0.745 mW/g

SAR(10 g) = 0.478 mW/g

Power Drift = 0.01 dB

Maximum value of SAR (measured) = 0.812 mW/g



Date/Time: 2012-07-20 18:57:22

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 100% offset - Spacer 10mm - No Accessory - Back Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

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

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 100% offset - Spacer 10mm - No Accessory - Back Facing

Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.867 V/m

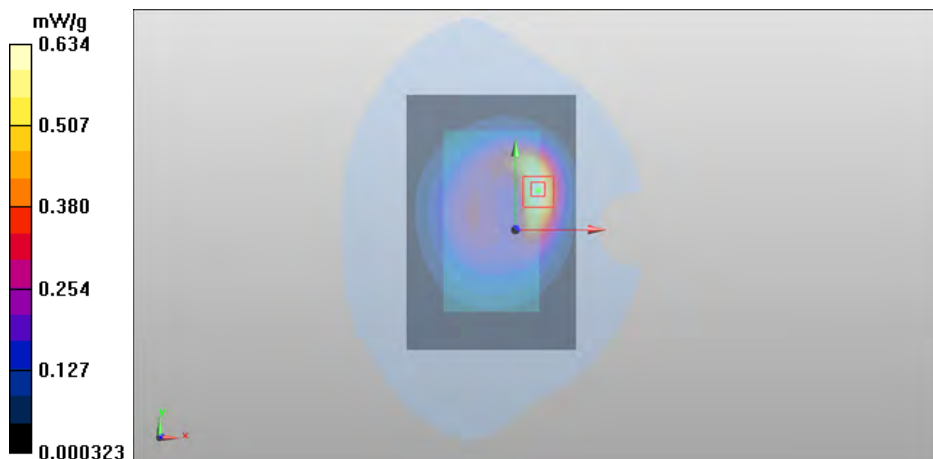
Peak SAR (extrapolated) = 0.860 mW/g

SAR(1 g) = 0.580 mW/g

SAR(10 g) = 0.367 mW/g

Power Drift = -0.12 dB

Maximum value of SAR (measured) = 0.642 mW/g



Date/Time: 2012-07-20 19:13:54

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 53.736$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 0% offset - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.678 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 0% offset - Spacer 10mm - No Accessory - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.189 V/m

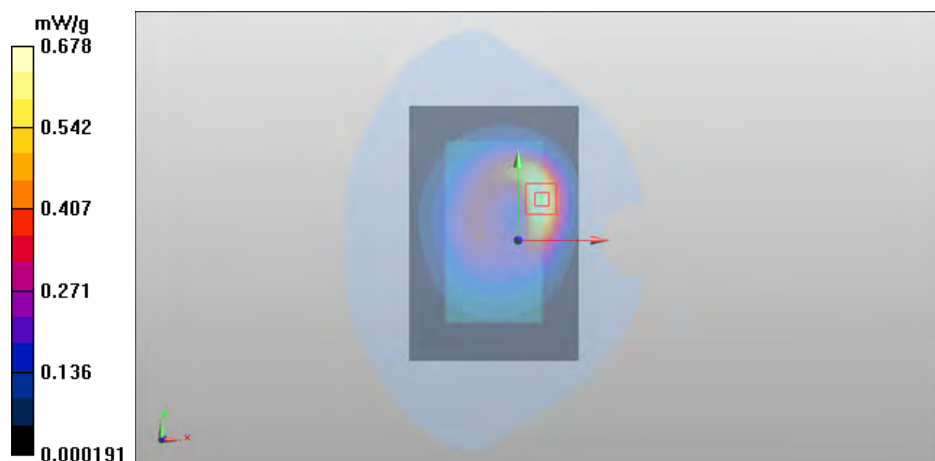
Peak SAR (extrapolated) = 0.957 mW/g

SAR(1 g) = 0.633 mW/g

SAR(10 g) = 0.396 mW/g

Power Drift = 0.04 dB

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



Date/Time: 2012-07-20 20:03:02

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - 16QAM - 10MHz - 100% RB - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.458 mW/g

LTE/Body - Middle - 16QAM - 10MHz - 100% RB - Spacer 10mm - No Accessory - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 14.473 V/m

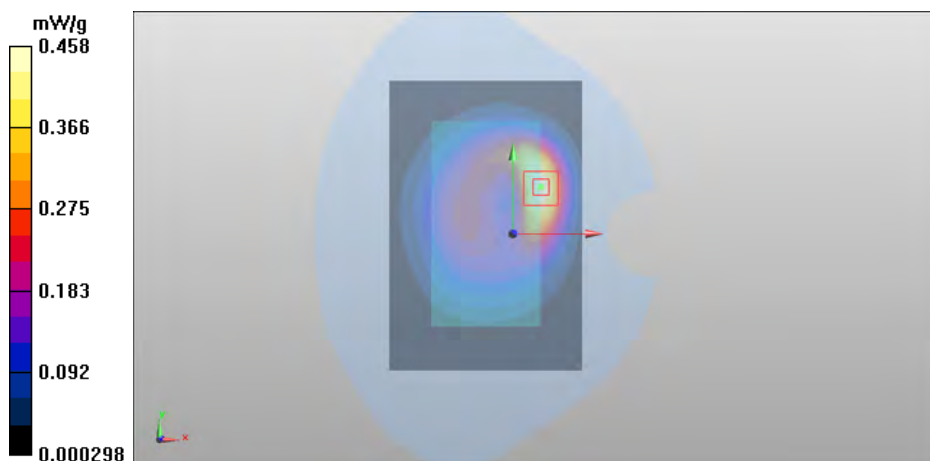
Peak SAR (extrapolated) = 0.657 mW/g

SAR(1 g) = 0.435 mW/g

SAR(10 g) = 0.272 mW/g

Power Drift = 0.10 dB

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



Date/Time: 2012-07-20 20:20:11

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - 16QAM - 10MHz - 50% RB - 50% offset - Spacer 10mm - No Accessory - Back Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.499 mW/g

LTE/Body - Middle - 16QAM - 10MHz - 50% RB - 50% offset - Spacer 10mm - No Accessory - Back Facing

Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.254 V/m

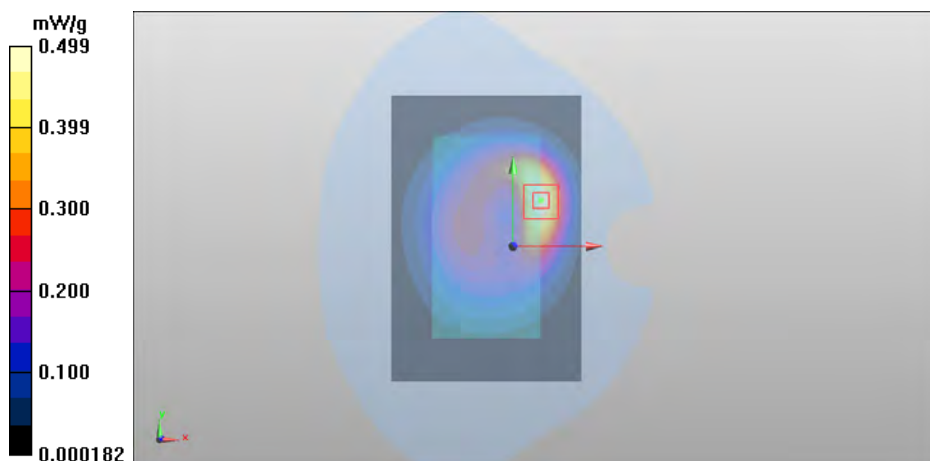
Peak SAR (extrapolated) = 0.714 mW/g

SAR(1 g) = 0.475 mW/g

SAR(10 g) = 0.296 mW/g

Power Drift = 0.02 dB

Maximum value of SAR (measured) = 0.527 mW/g



Date/Time: 2012-07-20 20:39:53

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - 16QAM - 10MHz - 1 RB - 50% offset - Spacer 10mm - No Accessory - Back Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.668 mW/g

LTE/Body - Middle - 16QAM - 10MHz - 1 RB - 50% offset - Spacer 10mm - No Accessory - Back Facing

Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.722 V/m

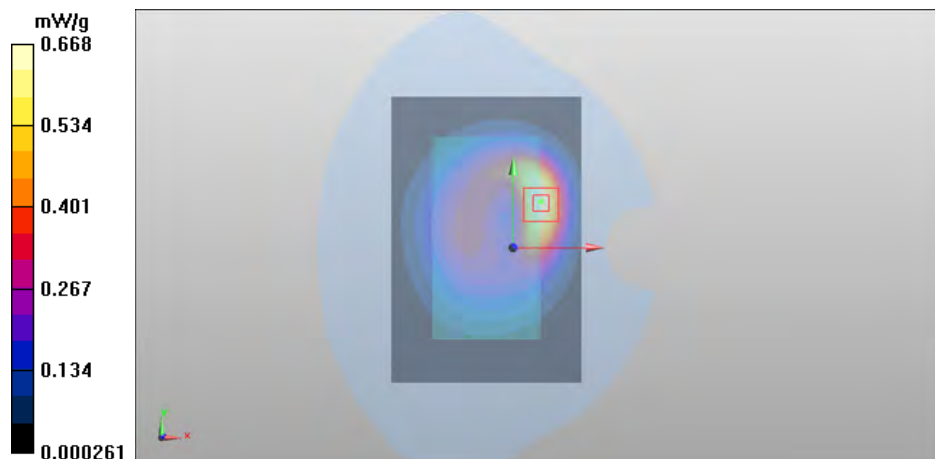
Peak SAR (extrapolated) = 0.949 mW/g

SAR(1 g) = 0.635 mW/g

SAR(10 g) = 0.400 mW/g

Power Drift = 0.09 dB

Maximum value of SAR (measured) = 0.704 mW/g



Date/Time: 2012-07-20 20:57:08

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - 16QAM - 10MHz - 1 RB - 100% offset - Spacer 10mm - No Accessory - Back Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.524 mW/g

LTE/Body - Middle - 16QAM - 10MHz - 1 RB - 100% offset - Spacer 10mm - No Accessory - Back Facing

Phantom/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.562 V/m

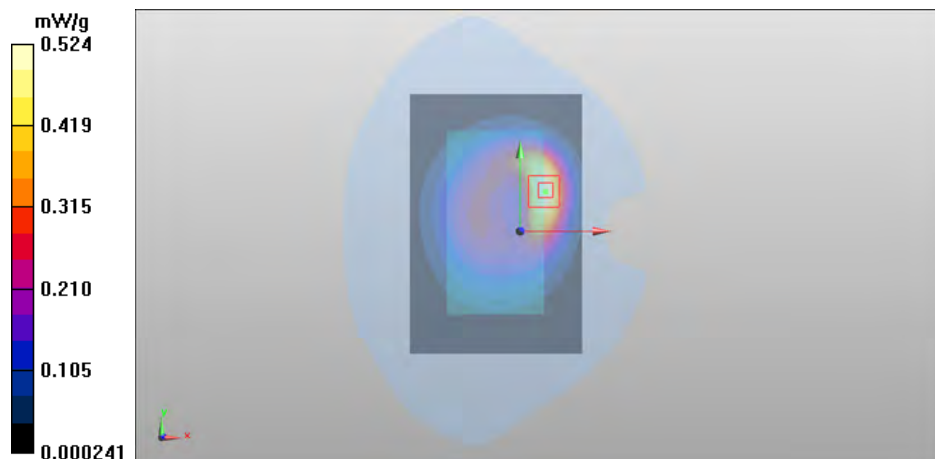
Peak SAR (extrapolated) = 0.744 mW/g

SAR(1 g) = 0.499 mW/g

SAR(10 g) = 0.313 mW/g

Power Drift = -0.07 dB

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



Date/Time: 2012-07-20 21:17:41

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - 16QAM - 10MHz - 1 RB - 0% offset - Spacer 10mm - No Accessory - Back Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.563 mW/g

LTE/Body - Middle - 16QAM - 10MHz - 1 RB - 0% offset - Spacer 10mm - No Accessory - Back Facing

Phantom/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.962 V/m

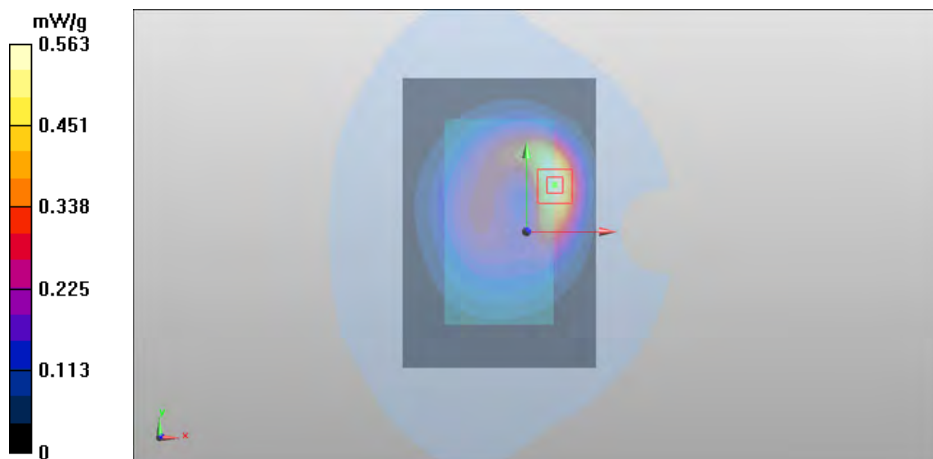
Peak SAR (extrapolated) = 0.800 mW/g

SAR(1 g) = 0.533 mW/g

SAR(10 g) = 0.331 mW/g

Power Drift = -0.06 dB

Maximum value of SAR (measured) = 0.595 mW/g



Date/Time: 2012-07-23 17:10:14

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055

Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium Notes: T=20.6

Medium parameters used: $f = 825$ MHz; $\sigma = 0.957$ mho/m; $\epsilon_r = 56.047$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399

- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27

- Phantom: SAM3; Type: SAM; Serial: TP-1399

- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Low - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.952 mW/g

CDMA/Body - Low - Spacer 10mm - No Accessory - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.158 V/m

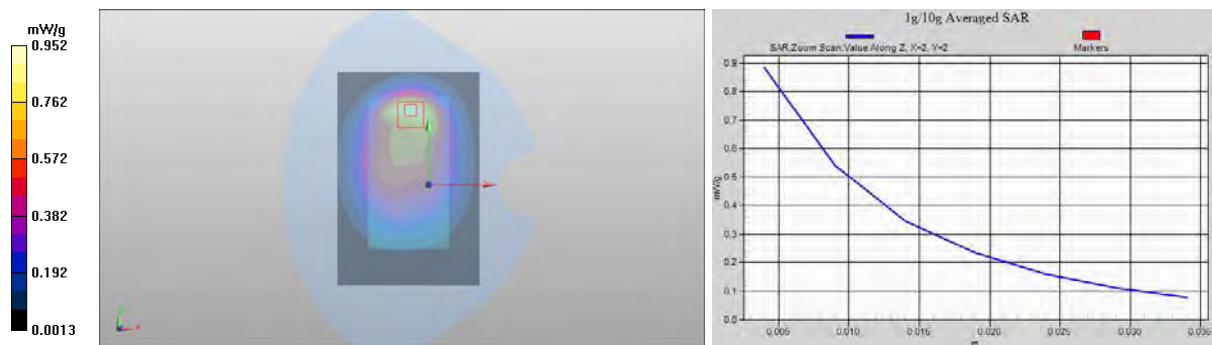
Peak SAR (extrapolated) = 1.351 mW/g

SAR(1 g) = 0.810 mW/g

SAR(10 g) = 0.504 mW/g

Power Drift = -0.10 dB

Maximum value of SAR (measured) = 0.883 mW/g



Date/Time: 2012-07-23 15:15:17

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium Notes: T=20.6

Medium parameters used: $f = 837$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 55.935$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399

- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27

- Phantom: SAM3; Type: SAM; Serial: TP-1399

- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Middle - Spacer 10mm - No Accessory - Display Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.649 mW/g

CDMA/Body - Middle - Spacer 10mm - No Accessory - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 25.931 V/m

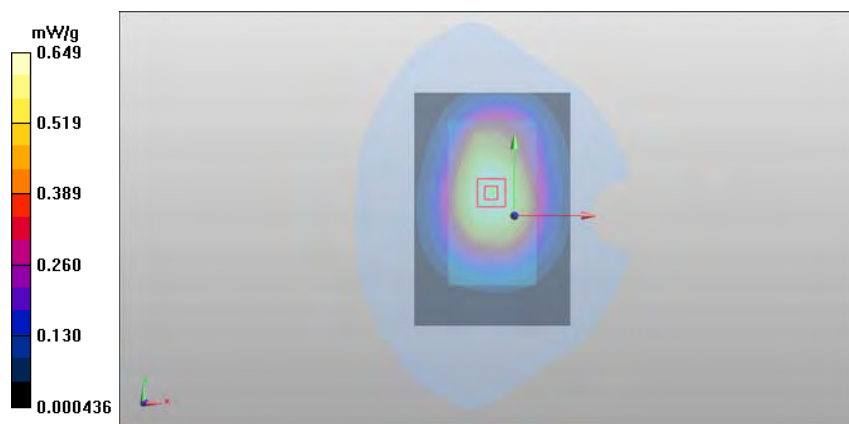
Peak SAR (extrapolated) = 0.728 mW/g

SAR(1 g) = 0.613 mW/g

SAR(10 g) = 0.478 mW/g

Power Drift = 0.04 dB

Maximum value of SAR (measured) = 0.641 mW/g



Date/Time: 2012-07-23 15:59:38

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium Notes: T=20.6

Medium parameters used: $f = 837$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 55.935$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399

- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27

- Phantom: SAM3; Type: SAM; Serial: TP-1399

- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Middle - Spacer 10mm - No Accessory - Top Edge Facing Phantom/Area Scan (41x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.0332 mW/g

CDMA/Body - Middle - Spacer 10mm - No Accessory - Top Edge Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.963 V/m

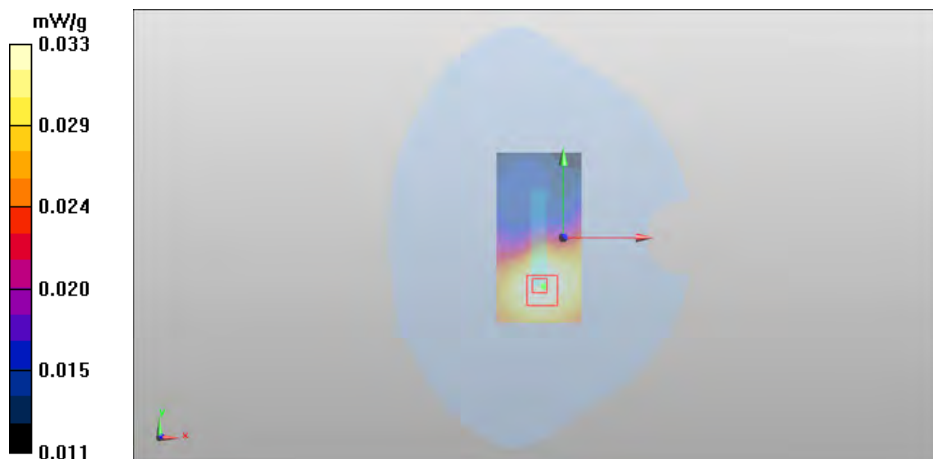
Peak SAR (extrapolated) = 0.042 mW/g

SAR(1 g) = 0.032 mW/g

SAR(10 g) = 0.024 mW/g

Power Drift = 0.07 dB

Maximum value of SAR (measured) = 0.0336 mW/g



SAR Report

Appendix B.3 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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Date/Time: 2012-07-23 15:47:17

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium Notes: T=20.6

Medium parameters used: $f = 837$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 55.935$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
- Phantom: SAM3; Type: SAM; Serial: TP-1399
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Middle - Spacer 10mm - No Accessory - Bottom Edge Facing Phantom/Area Scan (41x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.147 mW/g

CDMA/Body - Middle - Spacer 10mm - No Accessory - Bottom Edge Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.046 V/m

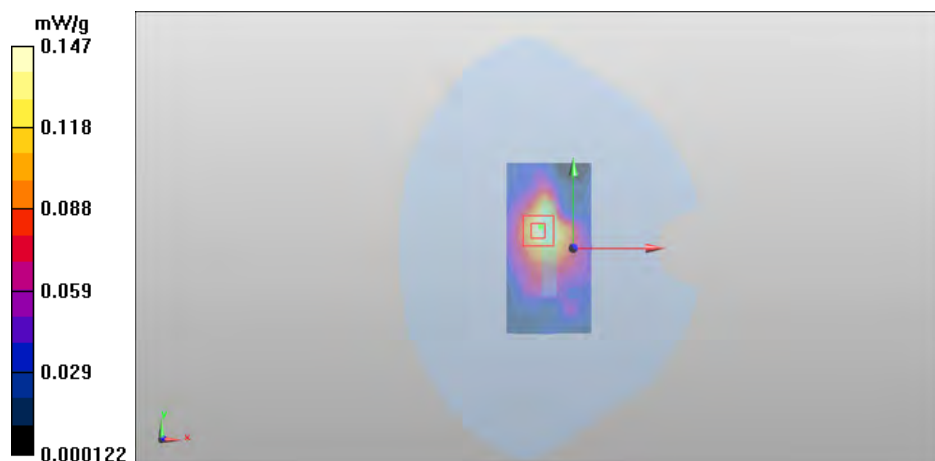
Peak SAR (extrapolated) = 0.227 mW/g

SAR(1 g) = 0.141 mW/g

SAR(10 g) = 0.085 mW/g

Power Drift = -0.32 dB

Maximum value of SAR (measured) = 0.151 mW/g



Date/Time: 2012-07-23 16:53:12

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium Notes: T=20.6

Medium parameters used: $f = 837$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 55.935$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399

- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27

- Phantom: SAM3; Type: SAM; Serial: TP-1399

- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Middle - Spacer 10mm - No Accessory - Left Edge Facing Phantom/Area Scan (41x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.713 mW/g

CDMA/Body - Middle - Spacer 10mm - No Accessory - Left Edge Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.826 V/m

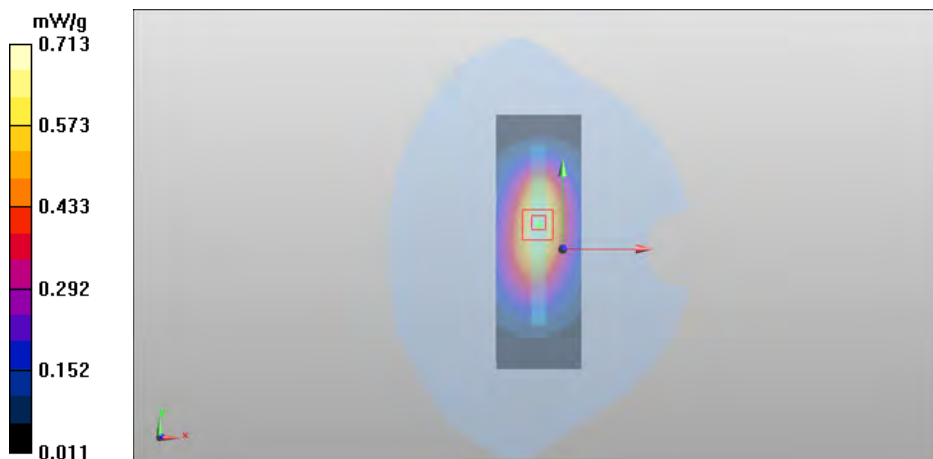
Peak SAR (extrapolated) = 0.909 mW/g

SAR(1 g) = 0.665 mW/g

SAR(10 g) = 0.459 mW/g

Power Drift = 0.05 dB

Maximum value of SAR (measured) = 0.716 mW/g



Date/Time: 2012-07-23 16:37:03

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium Notes: T=20.6

Medium parameters used: $f = 837$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 55.935$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399

- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27

- Phantom: SAM3; Type: SAM; Serial: TP-1399

- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Middle - Spacer 10mm - No Accessory - Right Edge Facing Phantom/Area Scan (41x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.270 mW/g

CDMA/Body - Middle - Spacer 10mm - No Accessory - Right Edge Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.650 V/m

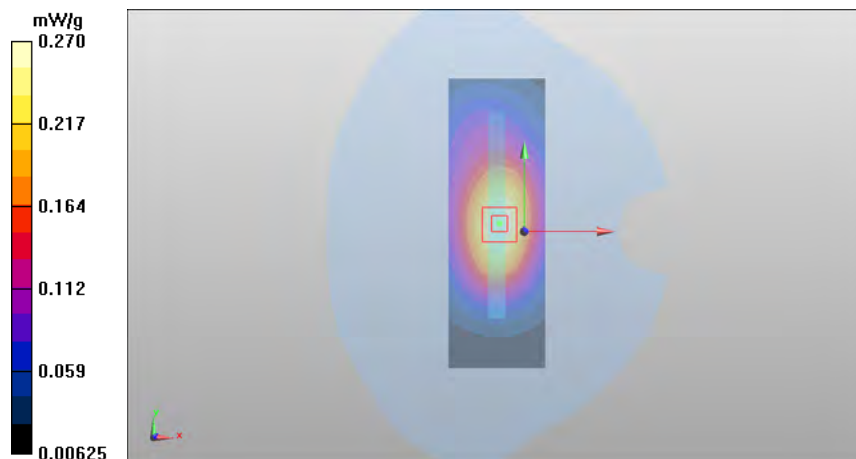
Peak SAR (extrapolated) = 0.335 mW/g

SAR(1 g) = 0.252 mW/g

SAR(10 g) = 0.178 mW/g

Power Drift = -0.10 dB

Maximum value of SAR (measured) = 0.268 mW/g



Date/Time: 2012-07-29 19:35:30

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.09991

Medium: BSL850; Medium Notes: t= 21.0 C

Medium parameters used: f = 837 MHz; σ = 1.008 mho/m; ϵ_r = 53.63; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131

- ConvF(5.92, 5.92, 5.92); Calibrated: 2011-09-14;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15

- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179

- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

4-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.693 mW/g

4-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 25.029 V/m

Peak SAR (extrapolated) = 0.794 mW/g

SAR(1 g) = 0.657 mW/g

SAR(10 g) = 0.511 mW/g

Power Drift = -0.00 dB

Maximum value of SAR (measured) = 0.688 mW/g

4-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Back Facing Phantom/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 25.029 V/m

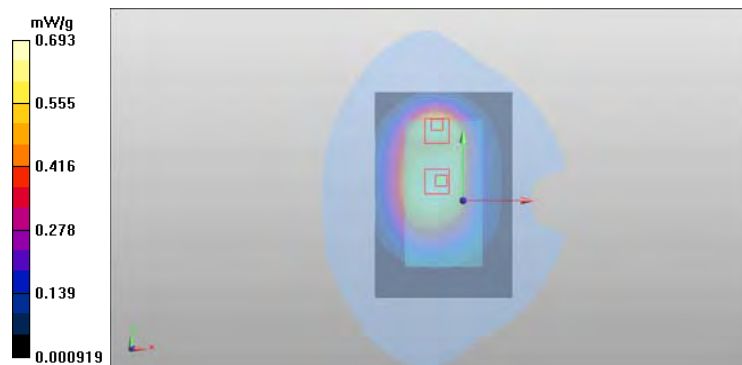
Peak SAR (extrapolated) = 0.944 mW/g

SAR(1 g) = 0.597 mW/g

SAR(10 g) = 0.386 mW/g

Power Drift = -0.00 dB

Maximum value of SAR (measured) = 0.635 mW/g



Date/Time: 2012-07-29 19:12:57

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.09991

Medium: BSL850; Medium Notes: t= 21.0 C

Medium parameters used: f = 837 MHz; σ = 1.008 mho/m; ϵ_r = 53.63; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.92, 5.92, 5.92); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

4-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Display Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.824 mW/g

4-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.813 V/m

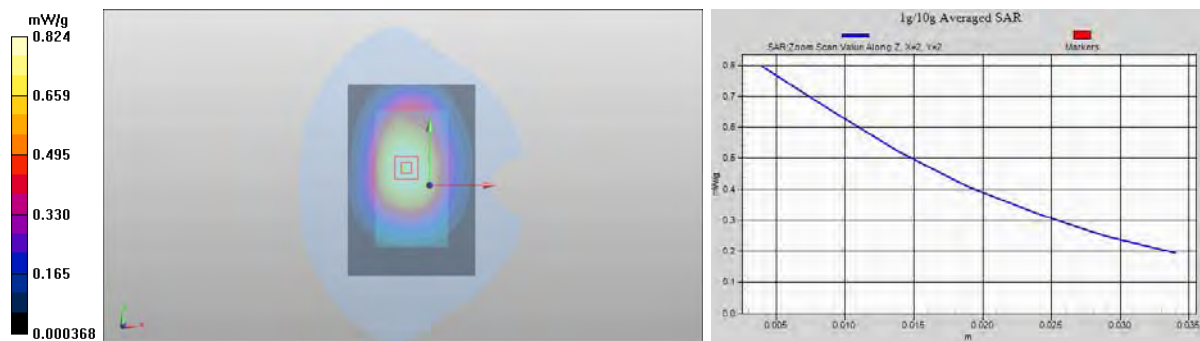
Peak SAR (extrapolated) = 0.899 mW/g

SAR(1 g) = 0.764 mW/g

SAR(10 g) = 0.596 mW/g

Power Drift = -0.44 dB

Maximum value of SAR (measured) = 0.795 mW/g



Date/Time: 2012-07-29 20:36:23

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.09991

Medium: BSL850; Medium Notes: t= 21.0 C

Medium parameters used: f = 837 MHz; σ = 1.008 mho/m; ϵ_r = 53.63; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.92, 5.92, 5.92); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

4-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Top Edge Facing Phantom/Area Scan (41x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.0464 mW/g

4-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Top Edge Facing Phantom/Zoom Scan (5x5x7)/Cube

0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.030 V/m

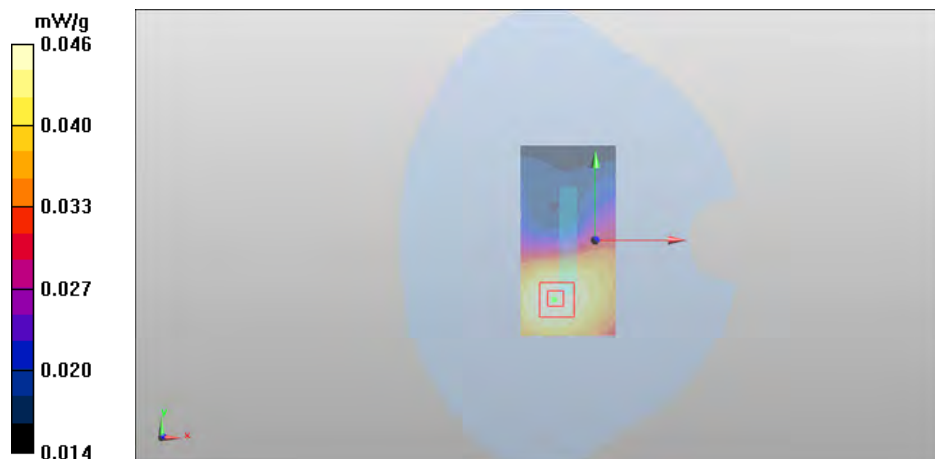
Peak SAR (extrapolated) = 0.056 mW/g

SAR(1 g) = 0.044 mW/g

SAR(10 g) = 0.033 mW/g

Power Drift = -0.05 dB

Maximum value of SAR (measured) = 0.0463 mW/g



Date/Time: 2012-07-29 20:49:21

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.09991

Medium: BSL850; Medium Notes: t= 21.0 C

Medium parameters used: f = 837 MHz; σ = 1.008 mho/m; ϵ_r = 53.63; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.92, 5.92, 5.92); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

4-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Bottom Edge Facing Phantom/Area Scan (41x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.166 mW/g

4-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Bottom Edge Facing Phantom/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.297 V/m

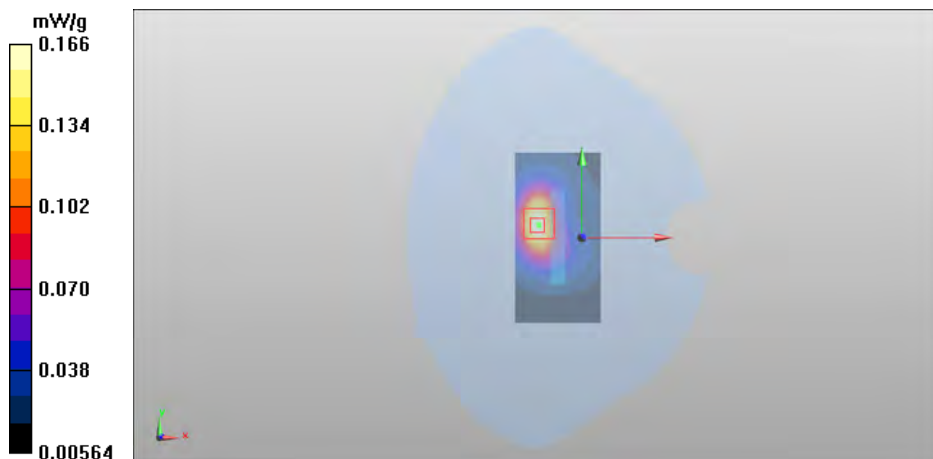
Peak SAR (extrapolated) = 0.237 mW/g

SAR(1 g) = 0.150 mW/g

SAR(10 g) = 0.089 mW/g

Power Drift = -0.05 dB

Maximum value of SAR (measured) = 0.166 mW/g



Date/Time: 2012-07-29 21:06:50

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.09991

Medium: BSL850; Medium Notes: t= 21.0 C

Medium parameters used: f = 837 MHz; σ = 1.008 mho/m; ϵ_r = 53.63; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.92, 5.92, 5.92); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

4-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Left Edge Facing Phantom/Area Scan (41x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.651 mW/g

4-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Left Edge Facing Phantom/Zoom Scan (5x5x7)/Cube

0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.137 V/m

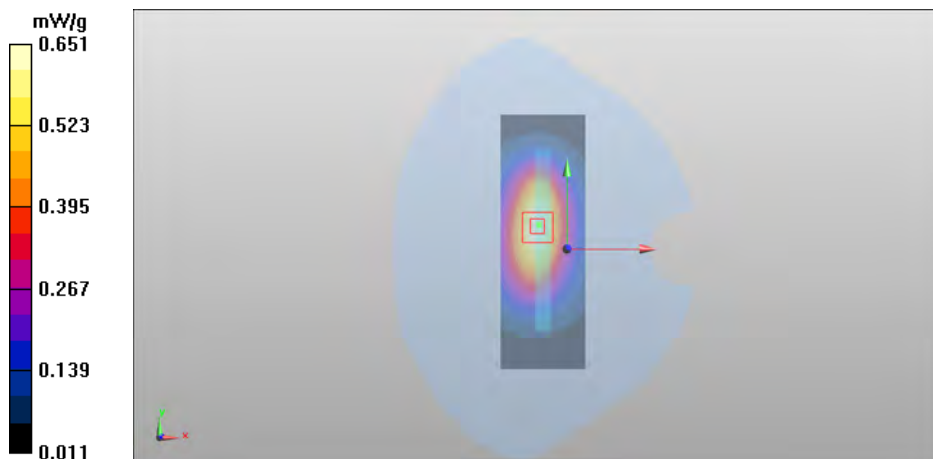
Peak SAR (extrapolated) = 0.815 mW/g

SAR(1 g) = 0.605 mW/g

SAR(10 g) = 0.421 mW/g

Power Drift = -0.02 dB

Maximum value of SAR (measured) = 0.650 mW/g



Date/Time: 2012-07-29 21:23:38

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850

Frequency: 836.6 MHz; Duty Cycle: 1:2.09991

Medium: BSL850; Medium Notes: t= 21.0 C

Medium parameters used: f = 837 MHz; σ = 1.008 mho/m; ϵ_r = 53.63; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3131
- ConvF(5.92, 5.92, 5.92); Calibrated: 2011-09-14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
- Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

4-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Right Edge Facing Phantom/Area Scan (41x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.286 mW/g

4-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Right Edge Facing Phantom/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.918 V/m

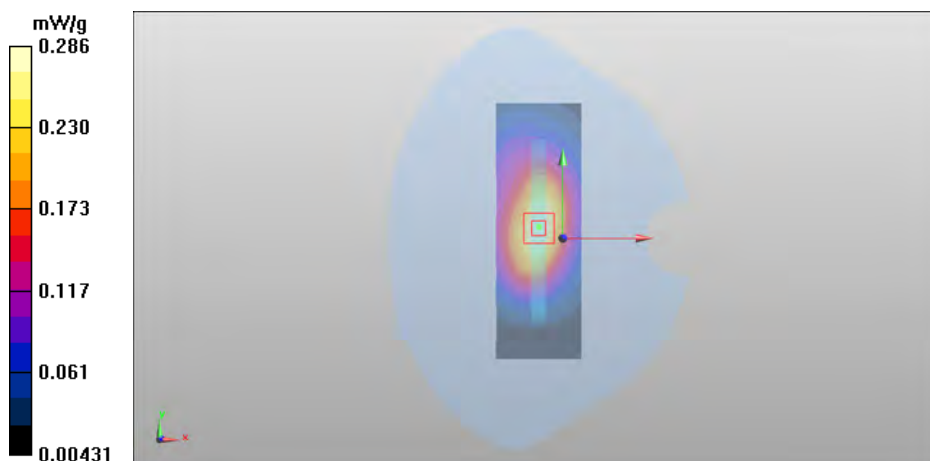
Peak SAR (extrapolated) = 0.356 mW/g

SAR(1 g) = 0.264 mW/g

SAR(10 g) = 0.185 mW/g

Power Drift = -0.04 dB

Maximum value of SAR (measured) = 0.282 mW/g



Date/Time: 2012-07-25 23:07:19

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M900; Medium Notes: T=20.6

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.978 \text{ mho/m}$; $\epsilon_r = 55.206$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
- Phantom: SAM3; Type: SAM; Serial: TP-1399
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - Middle - Spacer 10mm - No Accessory -Back Facing Phantom/Area Scan (81x121x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

WCDMA/Body - Middle - Spacer 10mm - No Accessory -Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.541 V/m

Peak SAR (extrapolated) = 1.067 mW/g

SAR(1 g) = 0.638 mW/g

SAR(10 g) = 0.408 mW/g

Power Drift = -0.09 dB

Maximum value of SAR (measured) = 0.700 mW/g

WCDMA/Body - Middle - Spacer 10mm - No Accessory -Back Facing Phantom/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.541 V/m

Peak SAR (extrapolated) = 0.756 mW/g

SAR(1 g) = 0.642 mW/g

SAR(10 g) = 0.507 mW/g

Power Drift = -0.09 dB

Maximum value of SAR (measured) = 0.669 mW/g

WCDMA/Body - Middle - Spacer 10mm - No Accessory -Back Facing Phantom/Zoom Scan 3 (6x6x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.541 V/m

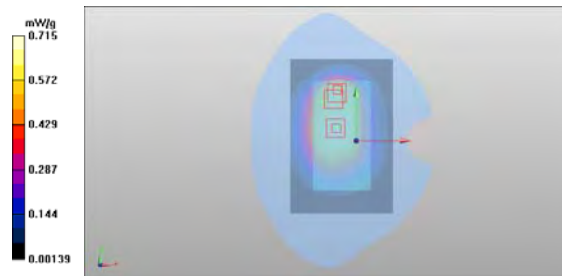
Peak SAR (extrapolated) = 1.045 mW/g

SAR(1 g) = 0.629 mW/g

SAR(10 g) = 0.410 mW/g

Power Drift = -0.16 dB

Maximum value of SAR (measured) = 0.688 mW/g



SAR Report

Appendix B.3 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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Date/Time: 2012-07-25 22:35:22

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M900; Medium Notes: T=20.6

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.978 \text{ mho/m}$; $\epsilon_r = 55.206$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
- Phantom: SAM3; Type: SAM; Serial: TP-1399
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Display Facing Phantom/Area Scan (81x121x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.648 mW/g

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.055 V/m

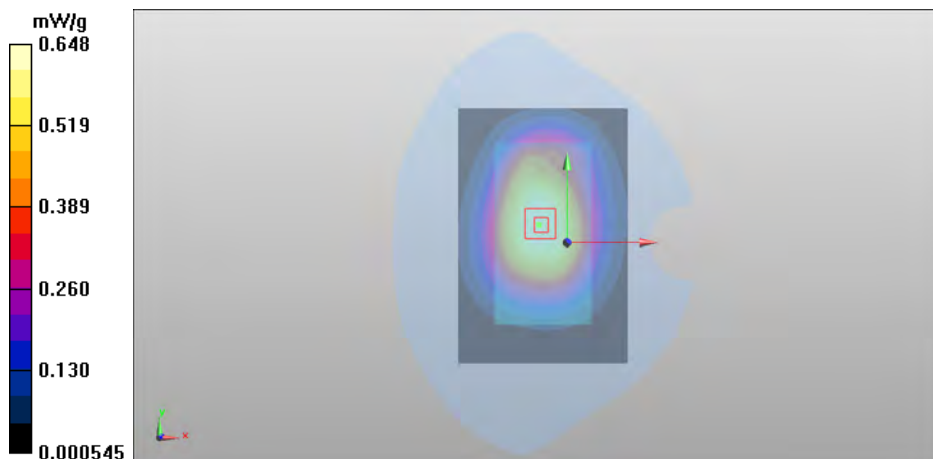
Peak SAR (extrapolated) = 0.732 mW/g

SAR(1 g) = 0.613 mW/g

SAR(10 g) = 0.477 mW/g

Power Drift = -0.00 dB

Maximum value of SAR (measured) = 0.641 mW/g



Date/Time: 2012-07-26 09:18:24

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M900; Medium Notes: T=20.3

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.978 \text{ mho/m}$; $\epsilon_r = 55.206$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
- Phantom: SAM3; Type: SAM; Serial: TP-1399
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Top Edge Facing Phantom/Area Scan (41x81x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.0397 mW/g

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Top Edge Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.544 V/m

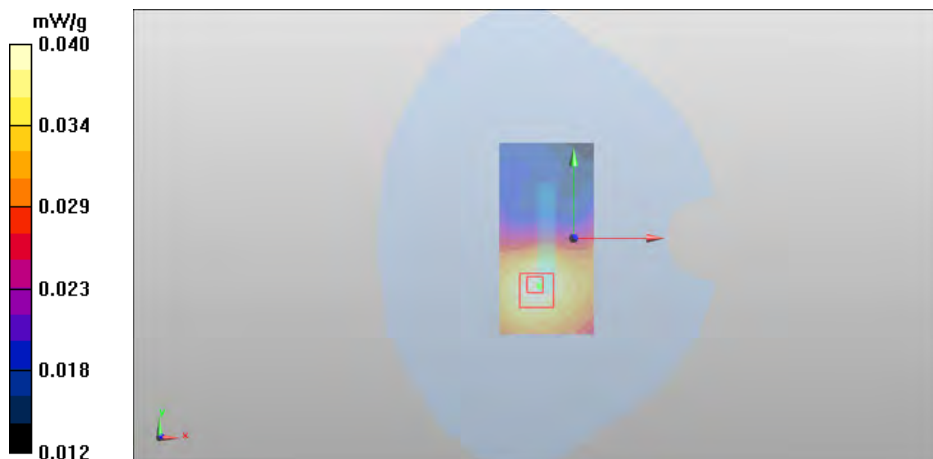
Peak SAR (extrapolated) = 0.048 mW/g

SAR(1 g) = 0.036 mW/g

SAR(10 g) = 0.027 mW/g

Power Drift = -0.13 dB

Maximum value of SAR (measured) = 0.0380 mW/g



Date/Time: 2012-07-26 09:41:00

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M900; Medium Notes: T=20.3

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.978 \text{ mho/m}$; $\epsilon_r = 55.206$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
- Phantom: SAM3; Type: SAM; Serial: TP-1399
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Bottom Edge Facing Phantom/Area Scan (41x81x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.136 mW/g

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Bottom Edge Facing Phantom/Zoom Scan (5x5x7)/Cube

0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.289 V/m

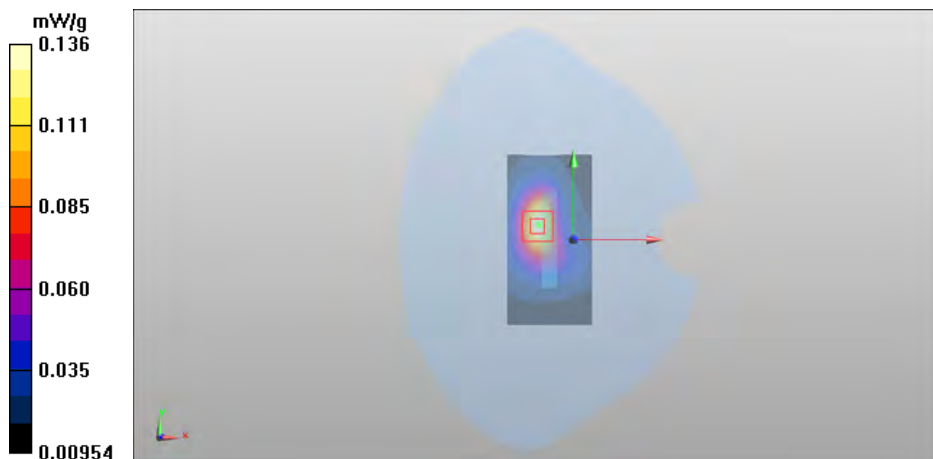
Peak SAR (extrapolated) = 0.195 mW/g

SAR(1 g) = 0.117 mW/g

SAR(10 g) = 0.069 mW/g

Power Drift = 0.08 dB

Maximum value of SAR (measured) = 0.130 mW/g



Date/Time: 2012-07-28 18:02:56

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850

Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: M900; Medium Notes: T=19.8

Medium parameters used: $f = 847$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 55.614$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399

- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27

- Phantom: SAM3; Type: SAM; Serial: TP-1399

- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - High - Spacer 10mm - No Accessory - Left Edge Facing Phantom/Area Scan (41x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.719 mW/g

WCDMA/Body - High - Spacer 10mm - No Accessory - Left Edge Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 27.113 V/m

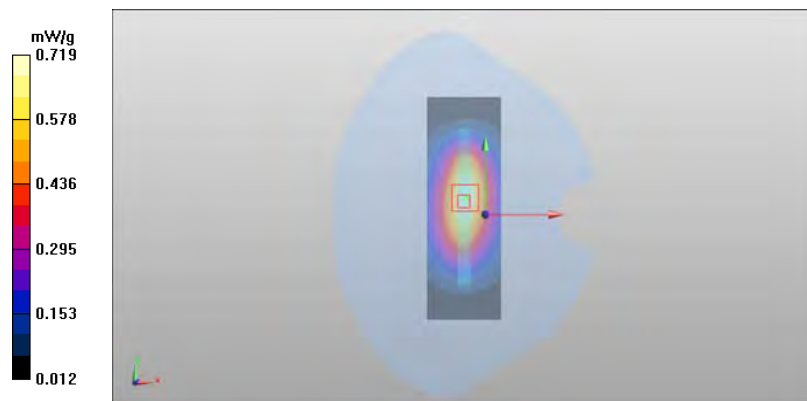
Peak SAR (extrapolated) = 0.932 mW/g

SAR(1 g) = 0.681 mW/g

SAR(10 g) = 0.470 mW/g

Power Drift = 0.01 dB

Maximum value of SAR (measured) = 0.724 mW/g



Date/Time: 2012-07-26 10:52:12

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M900; Medium Notes: T=20.3

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.978 \text{ mho/m}$; $\epsilon_r = 55.206$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399

- ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1301; Calibrated: 2011-10-27

- Phantom: SAM3; Type: SAM; Serial: TP-1399

- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Right Edge Facing Phantom/Area Scan (41x121x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.350 mW/g

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Right Edge Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.512 V/m

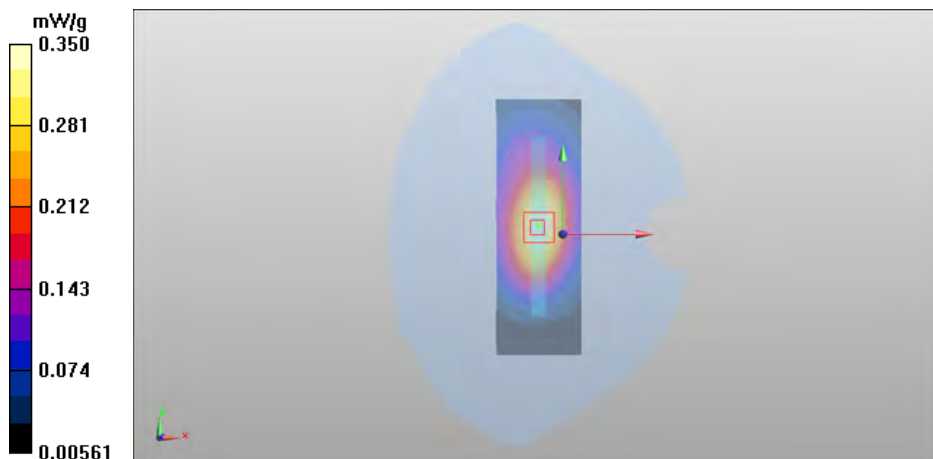
Peak SAR (extrapolated) = 0.446 mW/g

SAR(1 g) = 0.330 mW/g

SAR(10 g) = 0.229 mW/g

Power Drift = 0.10 dB

Maximum value of SAR (measured) = 0.354 mW/g



Date/Time: 2012-07-23 13:04:47

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA1900 RC3/S055

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.508$ mho/m; $\epsilon_r = 52.268$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Middle - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.24 mW/g

CDMA/Body - Middle - Spacer 10mm - No Accessory - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.234 V/m

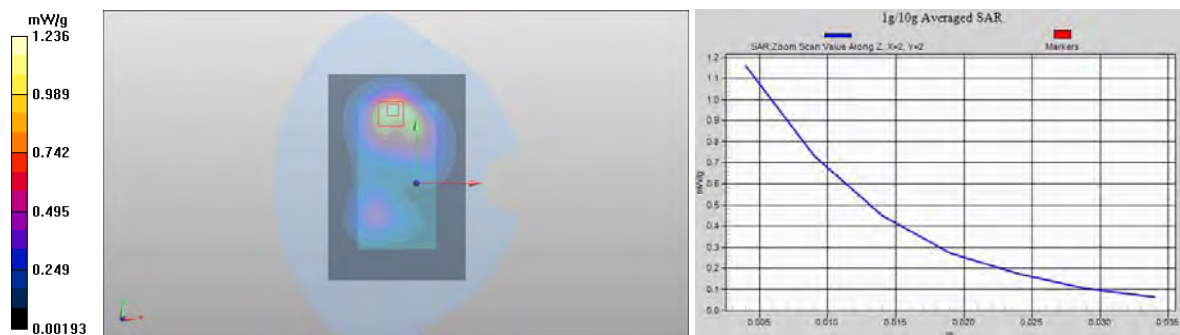
Peak SAR (extrapolated) = 1.719 mW/g

SAR(1 g) = 1.06 mW/g

SAR(10 g) = 0.635 mW/g

Power Drift = 0.10 dB

Maximum value of SAR (measured) = 1.16 mW/g



Date/Time: 2012-07-23 22:37:24

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA1900 RC3/S055

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.508$ mho/m; $\epsilon_r = 52.268$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Middle - Spacer 10mm - No Accessory - Display Facing Phantom /Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.07 mW/g

CDMA/Body - Middle - Spacer 10mm - No Accessory - Display Facing Phantom /Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.852 V/m

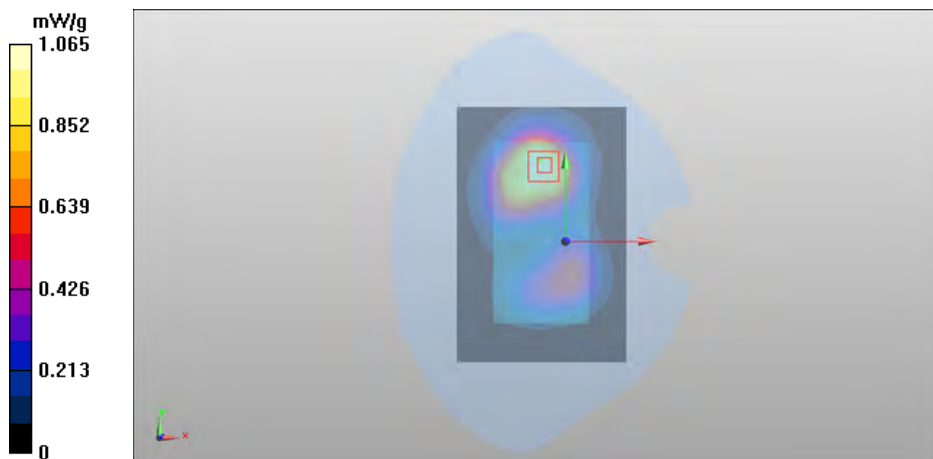
Peak SAR (extrapolated) = 1.499 mW/g

SAR(1 g) = 0.988 mW/g

SAR(10 g) = 0.619 mW/g

Power Drift = -0.28 dB

Maximum value of SAR (measured) = 1.04 mW/g



Date/Time: 2012-07-23 10:12:26

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA1900 RC3/S055

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.508$ mho/m; $\epsilon_r = 52.268$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Middle - Spacer 10mm - No Accessory - Top Edge Facing Phantom/Area Scan (41x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.0674 mW/g

CDMA/Body - Middle - Spacer 10mm - No Accessory - Top Edge Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.218 V/m

Peak SAR (extrapolated) = 0.098 mW/g

SAR(1 g) = 0.063 mW/g

SAR(10 g) = 0.040 mW/g

Power Drift = -0.16 dB

Maximum value of SAR (measured) = 0.0693 mW/g



Date/Time: 2012-07-23 10:32:21

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA1900 RC3/S055

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.508$ mho/m; $\epsilon_r = 52.268$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Middle - Spacer 10mm - No Accessory - Bottom Edge Facing Phantom/Area Scan (41x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.799 mW/g

CDMA/Body - Middle - Spacer 10mm - No Accessory - Bottom Edge Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.081 V/m

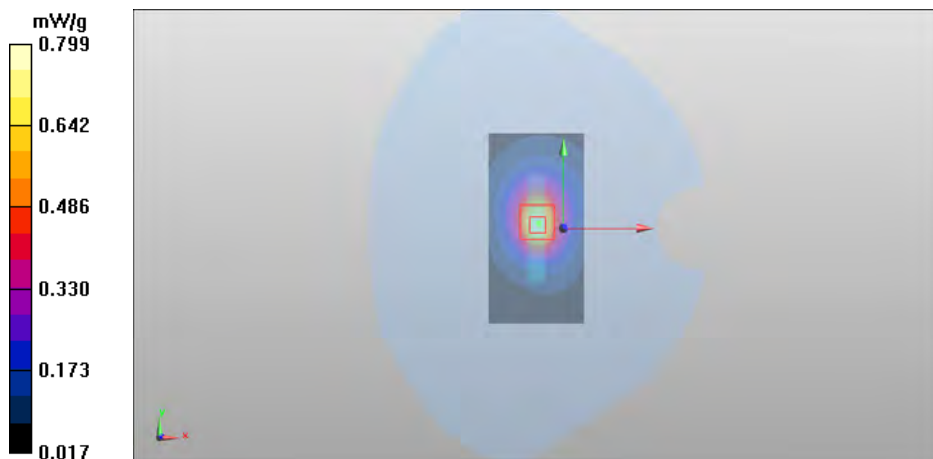
Peak SAR (extrapolated) = 1.115 mW/g

SAR(1 g) = 0.686 mW/g

SAR(10 g) = 0.393 mW/g

Power Drift = 0.08 dB

Maximum value of SAR (measured) = 0.753 mW/g



Date/Time: 2012-07-23 11:04:21

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA1900 RC3/S055

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.508$ mho/m; $\epsilon_r = 52.268$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Middle - Spacer 10mm - No Accessory - Left Edge Facing Phantom/Area Scan (41x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.229 mW/g

CDMA/Body - Middle - Spacer 10mm - No Accessory - Left Edge Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.142 V/m

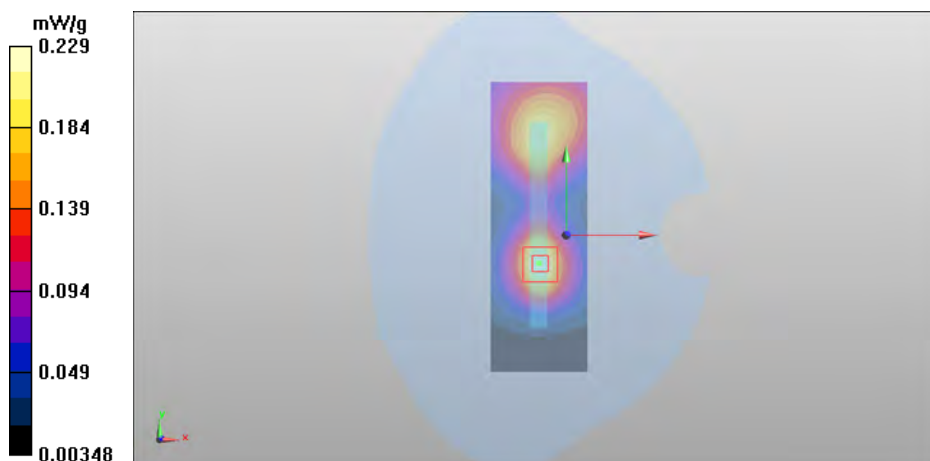
Peak SAR (extrapolated) = 0.315 mW/g

SAR(1 g) = 0.204 mW/g

SAR(10 g) = 0.125 mW/g

Power Drift = -0.23 dB

Maximum value of SAR (measured) = 0.223 mW/g



Date/Time: 2012-07-23 11:24:21

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294 /B1

Communication System: CDMA1900 RC3/S055

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.508$ mho/m; $\epsilon_r = 52.268$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA/Body - Middle - Spacer 10mm - No Accessory - Right Edge Facing Phantom /Area Scan (41x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.316 mW/g

CDMA/Body - Middle - Spacer 10mm - No Accessory - Right Edge Facing Phantom /Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.517 V/m

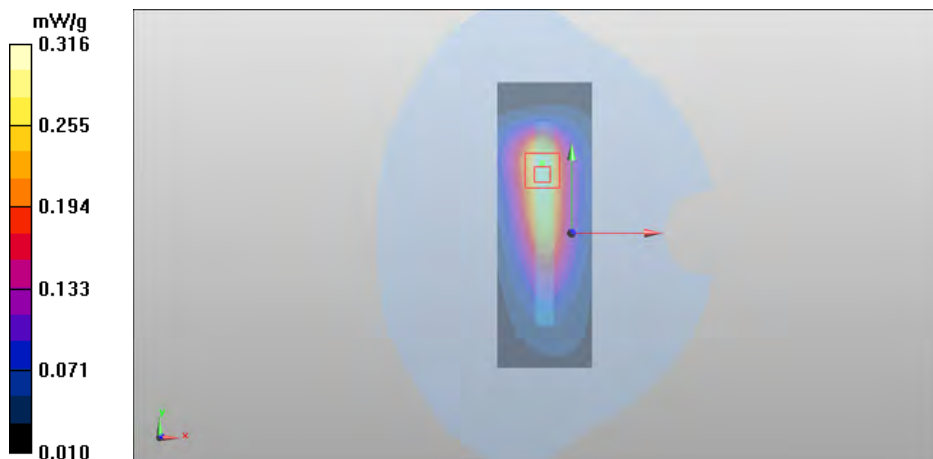
Peak SAR (extrapolated) = 0.464 mW/g

SAR(1 g) = 0.290 mW/g

SAR(10 g) = 0.176 mW/g

Power Drift = -0.09 dB

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



Date/Time: 2012-07-28 13:08:47

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium: MSL1900; Medium Notes: T=21.6

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.579$ mho/m; $\epsilon_r = 52.086$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 22.09.2011;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 26.08.2011
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

2-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.775 mW/g

2-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.591 V/m

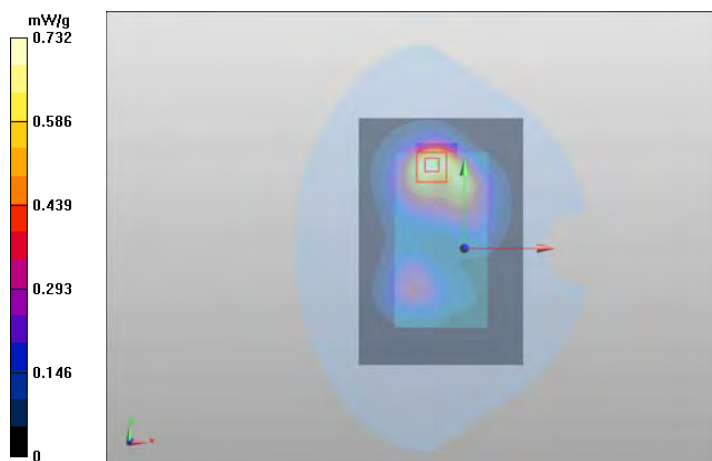
Peak SAR (extrapolated) = 1.077 mW/g

SAR(1 g) = 0.674 mW/g

SAR(10 g) = 0.408 mW/g

Power Drift = -0.03 dB

Maximum value of SAR (measured) = 0.732 mW/g



Date/Time: 2012-07-28 12:33:01

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium: MSL1900; Medium Notes: T=21.6

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.579$ mho/m; $\epsilon_r = 52.086$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

2-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Display Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.712 mW/g

2-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.988 V/m

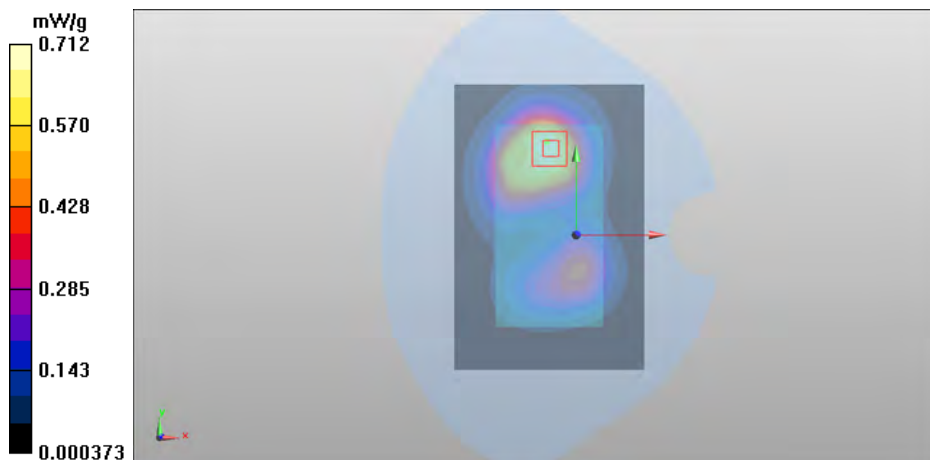
Peak SAR (extrapolated) = 0.992 mW/g

SAR(1 g) = 0.653 mW/g

SAR(10 g) = 0.408 mW/g

Power Drift = -0.14 dB

Maximum value of SAR (measured) = 0.687 mW/g



Date/Time: 2012-07-28 13:40:03

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium: MSL1900; Medium Notes: T=21.6

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.579$ mho/m; $\epsilon_r = 52.086$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

2-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Top Edge Facing Phantom/Area Scan (41x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of Total (interpolated) = 6.075 V/m

2-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Top Edge Facing Phantom/Zoom Scan (5x5x7)/Cube

0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.281 V/m

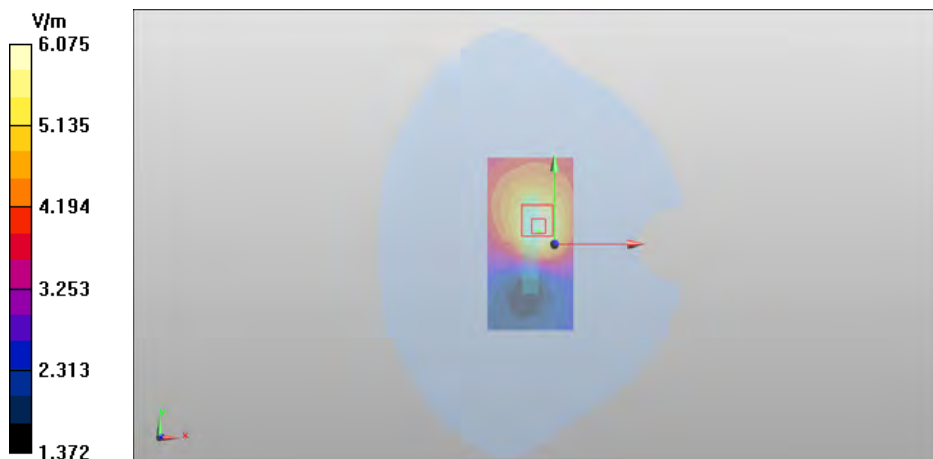
Peak SAR (extrapolated) = 0.078 mW/g

SAR(1 g) = 0.049 mW/g

SAR(10 g) = 0.030 mW/g

Power Drift = -0.06 dB

Maximum value of SAR (measured) = 0.0514 mW/g



Date/Time: 2012-07-28 13:54:54

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium: MSL1900; Medium Notes: T=21.6

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.579$ mho/m; $\epsilon_r = 52.086$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

2-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Bottom Edge Facing Phantom/Area Scan (41x81x1):

Measurement grid: dx=15mm, dy=15mm

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

2-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Bottom Edge Facing Phantom/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.991 V/m

Peak SAR (extrapolated) = 0.748 mW/g

SAR(1 g) = 0.460 mW/g

SAR(10 g) = 0.262 mW/g

Power Drift = -0.04 dB

Maximum value of SAR (measured) = 0.502 mW/g



Date/Time: 2012-07-28 14:20:49

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: 2-slot GPRS1900

Frequency: 1880 MHz; Duty Cycle: 1:4.19952

Medium: MSL1900; Medium Notes: T=21.6

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.579$ mho/m; $\epsilon_r = 52.086$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

2-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Left Edge Facing Phantom/Area Scan (41x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.164 mW/g

2-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Left Edge Facing Phantom/Zoom Scan (5x5x7)/Cube

0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.477 V/m

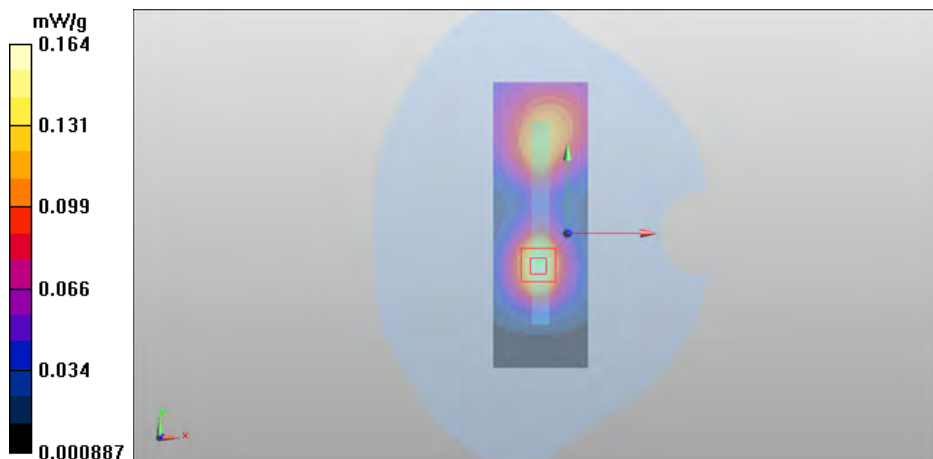
Peak SAR (extrapolated) = 0.225 mW/g

SAR(1 g) = 0.146 mW/g

SAR(10 g) = 0.089 mW/g

Power Drift = -0.14 dB

Maximum value of SAR (measured) = 0.159 mW/g



Date/Time: 2012-07-28 14:42:40

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: 2-slot GPRS1900

Frequency: 1850.2 MHz; Duty Cycle: 1:4.19952

Medium: MSL1900; Medium Notes: T=21.6

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.189$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

2-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Right Edge Facing Phantom/Area Scan (41x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.192 mW/g

2-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Right Edge Facing Phantom/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.314 V/m

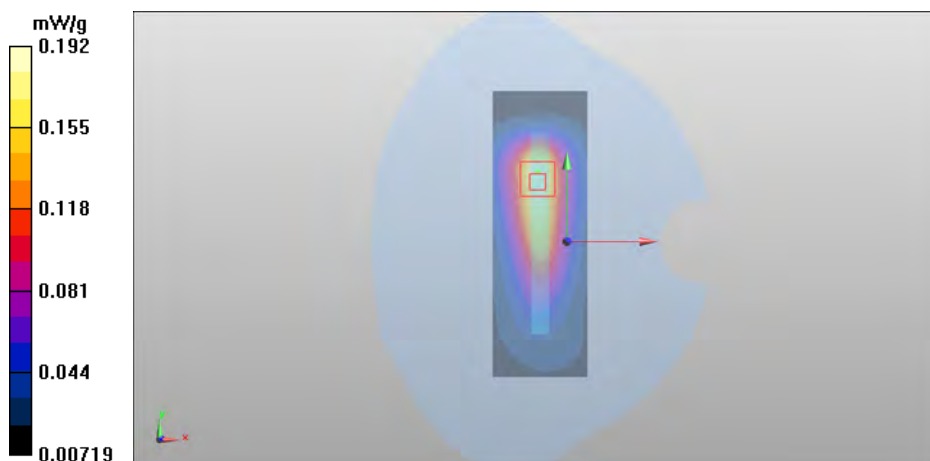
Peak SAR (extrapolated) = 0.273 mW/g

SAR(1 g) = 0.173 mW/g

SAR(10 g) = 0.105 mW/g

Power Drift = 0.04 dB

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



Date/Time: 2012-07-30 12:09:36

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.2

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 51.809$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.953 mW/g

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.885 V/m

Peak SAR (extrapolated) = 1.299 mW/g

SAR(1 g) = 0.803 mW/g

SAR(10 g) = 0.476 mW/g

Power Drift = -0.13 dB

Maximum value of SAR (measured) = 0.857 mW/g

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Back Facing Phantom 2/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.885 V/m

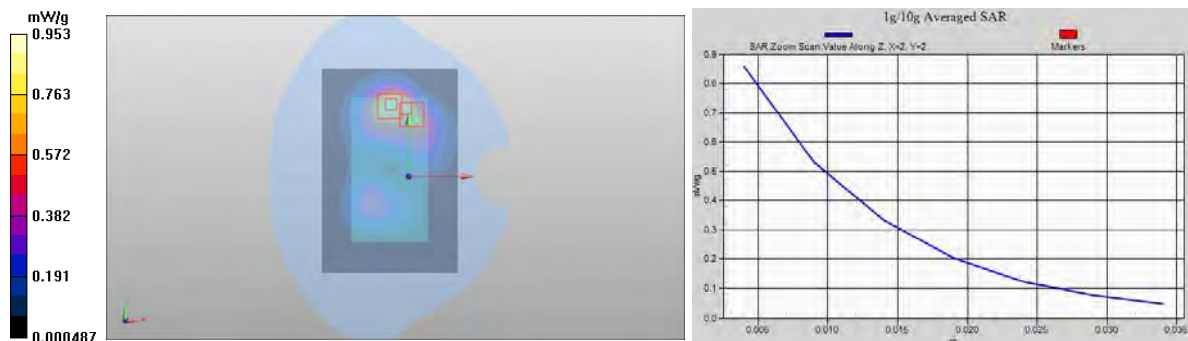
Peak SAR (extrapolated) = 1.361 mW/g

SAR(1 g) = 0.708 mW/g

SAR(10 g) = 0.386 mW/g

Power Drift = -0.13 dB

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



SAR Report

Appendix B.3 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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Date/Time: 2012-07-30 10:30:08

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.2

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 51.809$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Display Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.823 mW/g

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.415 V/m

Peak SAR (extrapolated) = 1.156 mW/g

SAR(1 g) = 0.760 mW/g

SAR(10 g) = 0.472 mW/g

Power Drift = -0.15 dB

Maximum value of SAR (measured) = 0.804 mW/g

WCDMAII/Body - Middle - Spacer 10mm - No Accessory - Display Facing Phantom/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.415 V/m

Peak SAR (extrapolated) = 1.061 mW/g

SAR(1 g) = 0.607 mW/g

SAR(10 g) = 0.398 mW/g

Power Drift = -0.15 dB

Maximum value of SAR (measured) = 0.723 mW/g



SAR Report

Appendix B.3 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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Date/Time: 2012-07-30 13:13:29

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.2

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 51.809$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Top Edge Facing Phantom/Area Scan (61x121x1):

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.0734 mW/g

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Top Edge Facing Phantom/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 6.358 V/m

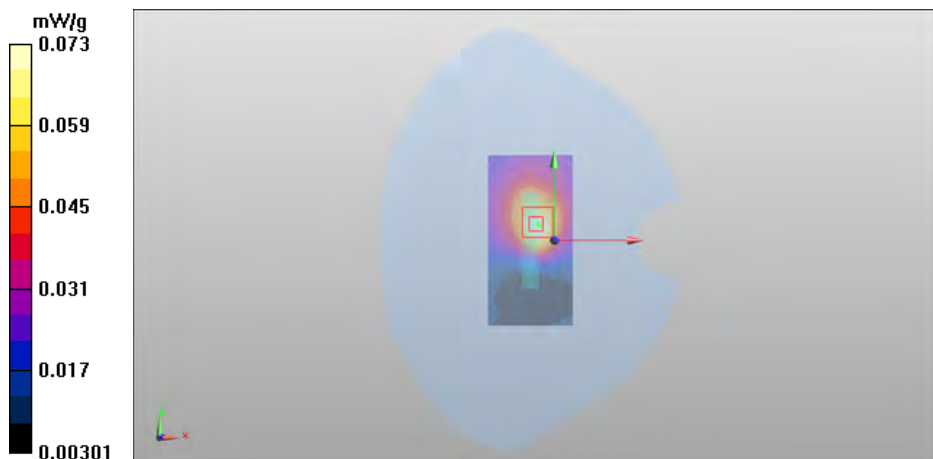
Peak SAR (extrapolated) = 0.105 mW/g

SAR(1 g) = 0.067 mW/g

SAR(10 g) = 0.041 mW/g

Power Drift = -0.02 dB

Maximum value of SAR (measured) = 0.0721 mW/g



Date/Time: 2012-07-30 13:41:55

Test Laboratory: TCC Nokia
Type: RM-845; Serial: C1A1383245/D2

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.2

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 51.809$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Bottom Edge Facing Phantom/Area Scan (61x121x1):

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.746 mW/g

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Bottom Edge Facing Phantom/Zoom Scan (7x7x7)/Cube

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

Reference Value = 22.330 V/m

Peak SAR (extrapolated) = 1.076 mW/g

SAR(1 g) = 0.662 mW/g

SAR(10 g) = 0.372 mW/g

Power Drift = 0.02 dB

Maximum value of SAR (measured) = 0.737 mW/g



Date/Time: 2012-07-30 14:34:10

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.2

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 51.809$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Left Edge Facing Phantom/Area Scan (41x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.243 mW/g

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Left Edge Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.762 V/m

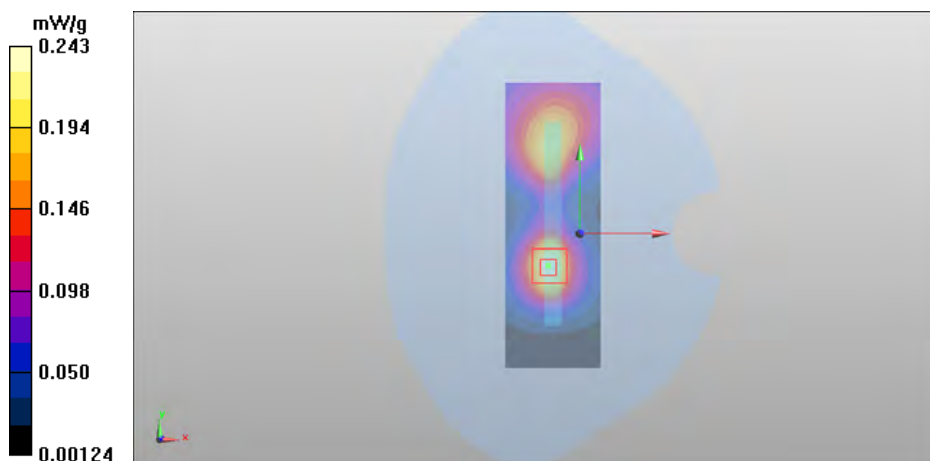
Peak SAR (extrapolated) = 0.335 mW/g

SAR(1 g) = 0.217 mW/g

SAR(10 g) = 0.131 mW/g

Power Drift = 0.04 dB

Maximum value of SAR (measured) = 0.237 mW/g



Date/Time: 2012-07-30 14:53:11

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: WCDMA1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.2

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 51.809$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2011-08-26
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Right Edge Facing Phantom/Area Scan (41x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.273 mW/g

WCDMA/Body - Middle - Spacer 10mm - No Accessory - Right Edge Facing Phantom/Zoom Scan (6x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.018 V/m

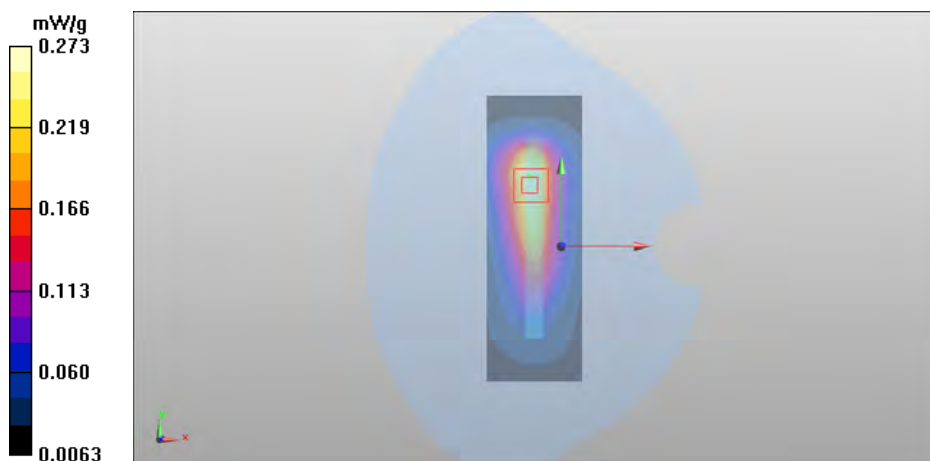
Peak SAR (extrapolated) = 0.380 mW/g

SAR(1 g) = 0.239 mW/g

SAR(10 g) = 0.146 mW/g

Power Drift = -0.03 dB

Maximum value of SAR (measured) = 0.260 mW/g



Date/Time: 2012-07-23 13:40:07

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: BSL2450; Medium Notes: $t = 20.6^\circ\text{C}$

Medium parameters used: $f = 2462\text{ MHz}$; $\sigma = 1.961\text{ mho/m}$; $\epsilon_r = 51.144$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN/Body - High - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan (121x181x1):

Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.289 mW/g

WLAN/Body - High - Spacer 10mm - No Accessory - Back Facing Phantom/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 4.776 V/m

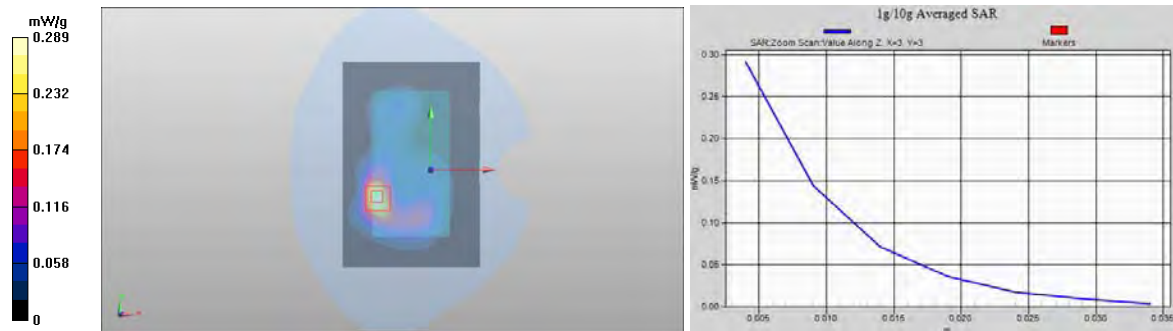
Peak SAR (extrapolated) = 0.526 mW/g

SAR(1 g) = 0.258 mW/g

SAR(10 g) = 0.126 mW/g

Power Drift = 0.08 dB

Maximum value of SAR (measured) = 0.291 mW/g



Date/Time: 2012-07-23 08:48:50

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: BSL2450; Medium Notes: $t = 20.6^\circ\text{C}$

Medium parameters used: $f = 2437\text{ MHz}$; $\sigma = 1.932\text{ mho/m}$; $\epsilon_r = 51.25$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN/Body - Middle - Spacer 10mm - No Accessory - Display Facing Phantom/Area Scan (121x181x1):

Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.147 mW/g

WLAN/Body - Middle - Spacer 10mm - No Accessory - Display Facing Phantom/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 2.733 V/m

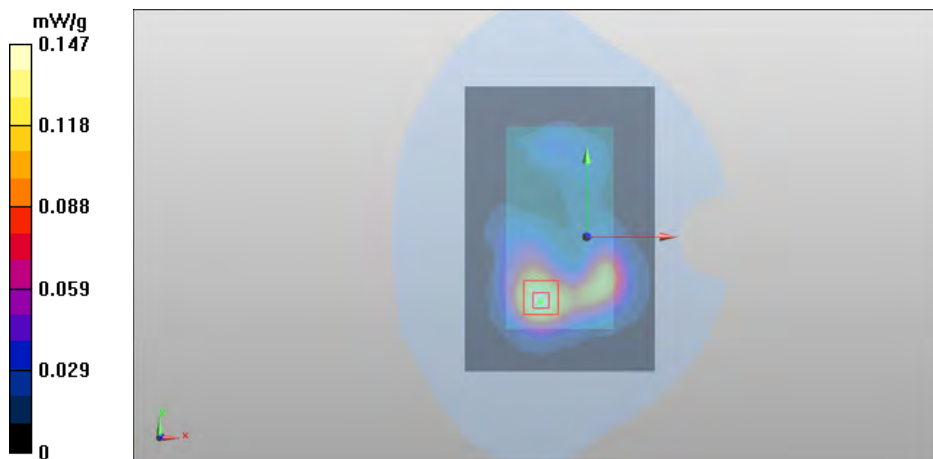
Peak SAR (extrapolated) = 0.224 mW/g

SAR(1 g) = 0.132 mW/g

SAR(10 g) = 0.075 mW/g

Power Drift = 0.06 dB

Maximum value of SAR (measured) = 0.144 mW/g



Date/Time: 2012-07-23 10:10:06

Test Laboratory: TCC Nokia

Type: RM-xxx; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: BSL2450; Medium Notes: $t = 20.6^\circ\text{C}$

Medium parameters used: $f = 2437\text{ MHz}$; $\sigma = 1.932\text{ mho/m}$; $\epsilon_r = 51.25$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN/Body - Middle - Spacer 10mm - No Accessory - Top Edge Facing Phantom/Area Scan (61x121x1):

Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.0797 mW/g

WLAN/Body - Middle - Spacer 10mm - No Accessory - Top Edge Facing Phantom/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 6.053 V/m

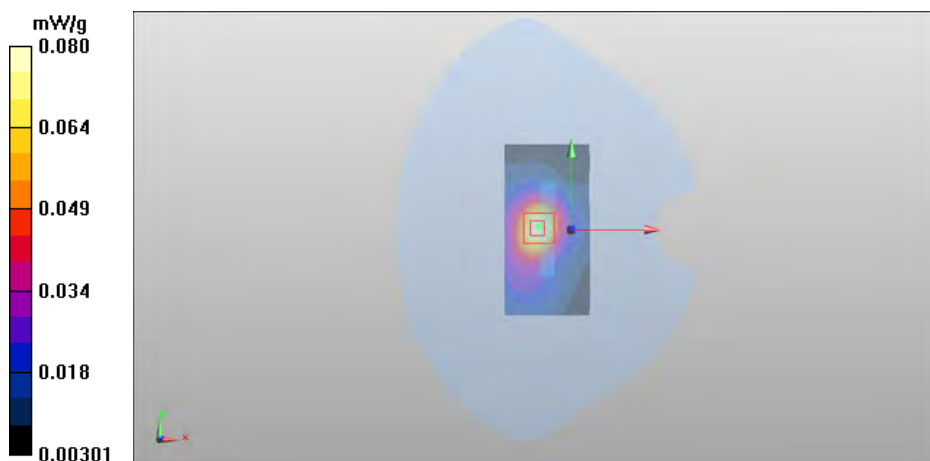
Peak SAR (extrapolated) = 0.138 mW/g

SAR(1 g) = 0.077 mW/g

SAR(10 g) = 0.042 mW/g

Power Drift = 0.27 dB

Maximum value of SAR (measured) = 0.0852 mW/g



Date/Time: 2012-07-23 10:36:12

Test Laboratory: TCC Nokia

Type: RM-xxx; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: BSL2450; Medium Notes: $t = 20.6^\circ\text{C}$

Medium parameters used: $f = 2437\text{ MHz}$; $\sigma = 1.932\text{ mho/m}$; $\epsilon_r = 51.25$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN/Body - Middle - Spacer 10mm - No Accessory - Bottom Edge Facing Phantom/Area Scan (61x121x1):

Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.0223 mW/g

WLAN/Body - Middle - Spacer 10mm - No Accessory - Bottom Edge Facing Phantom/Zoom Scan (7x7x7)/Cube

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

Reference Value = 1.915 V/m

Peak SAR (extrapolated) = 0.038 mW/g

SAR(1 g) = 0.021 mW/g

SAR(10 g) = 0.011 mW/g

Power Drift = 0.42 dB

Maximum value of SAR (measured) = 0.0255 mW/g



Date/Time: 2012-07-23 11:59:48

Test Laboratory: TCC Nokia

Type: RM-xxx; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: BSL2450; Medium Notes: $t = 20.6^\circ\text{C}$

Medium parameters used: $f = 2437\text{ MHz}$; $\sigma = 1.932\text{ mho/m}$; $\epsilon_r = 51.25$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN/Body - Middle - Spacer 10mm - No Accessory - Left Edge Facing Phantom/Area Scan (61x181x1):

Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.222 mW/g

WLAN/Body - Middle - Spacer 10mm - No Accessory - Left Edge Facing Phantom/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 5.976 V/m

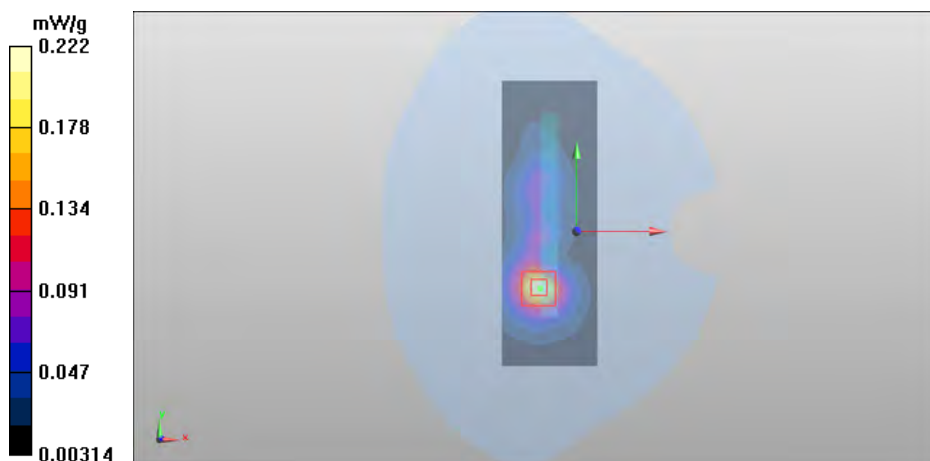
Peak SAR (extrapolated) = 0.364 mW/g

SAR(1 g) = 0.194 mW/g

SAR(10 g) = 0.095 mW/g

Power Drift = -0.17 dB

Maximum value of SAR (measured) = 0.220 mW/g



Date/Time: 2012-07-23 12:30:57

Test Laboratory: TCC Nokia

Type: RM-xxx; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: BSL2450; Medium Notes: $t = 20.6^\circ\text{C}$

Medium parameters used: $f = 2437\text{ MHz}$; $\sigma = 1.932\text{ mho/m}$; $\epsilon_r = 51.25$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.5 (6469)

WLAN/Body - Middle - Spacer 10mm - No Accessory - Right Edge Facing Phantom/Area Scan (61x181x1):

Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.0152 mW/g

WLAN/Body - Middle - Spacer 10mm - No Accessory - Right Edge Facing Phantom/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 1.992 V/m

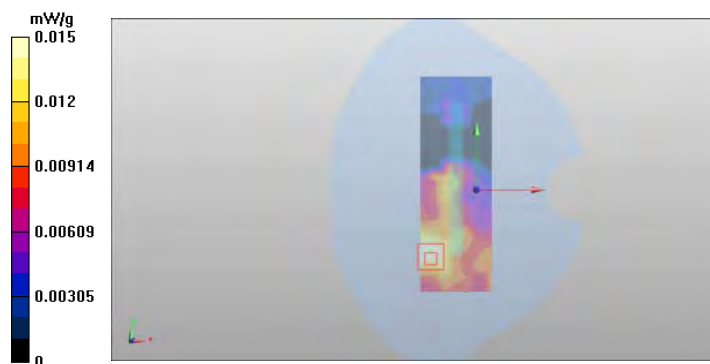
Peak SAR (extrapolated) = 0.027 mW/g

SAR(1 g) = 0.012 mW/g

SAR(10 g) = 0.00653 mW/g

Power Drift = 0.45 dB

Maximum value of SAR (measured) = 0.0137 mW/g



Date/Time: 2012-07-20 18:39:57

DASY Configuration for LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138254/F2

Communication System: LTE750 (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL750 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 1.007 \text{ mho/m}$; $\epsilon_r = 53.736$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: ES3DV3 - SN3165; ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #3 CRP; Type: SAM; Serial: Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-07-23 13:40:07

DASY Configuration for WLAN/Body - High - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.961 \text{ mho/m}$; $\epsilon_r = 51.144$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: EX3DV4 - SN3573; ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

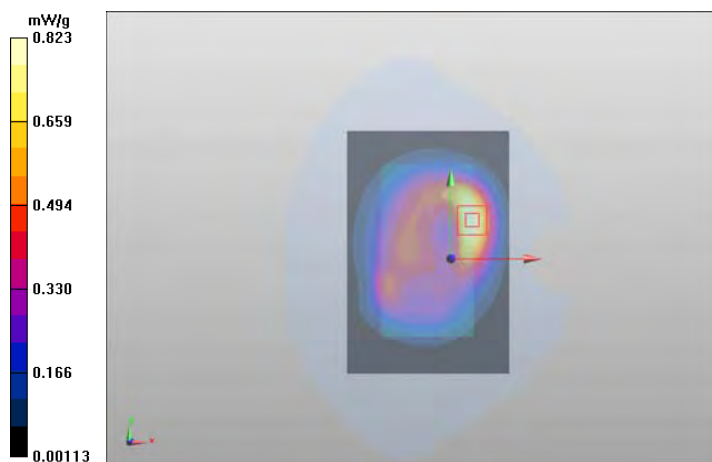
Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177

Measurement SW: DASY4, Version 4.7 (80)

Fast SAR of Combined Scans: SAR(1 g) = 0.759 mW/g; SAR(10 g) = 0.494 mW/g

Maximum value of SAR (interpolated) = 0.823 mW/g



Date/Time: 2012-07-23 17:10:14

DASY Configuration for CDMA/Body - Low - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055; Frequency: 824.7 MHz; Duty Cycle: 1:1; PMF: 1

Medium: MSL835 Medium parameters used: $f = 825$ MHz; $\sigma = 0.957$ mho/m; $\epsilon_r = 56.047$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ET3DV6R - SN1399; ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
Phantom: SAM3; Type: SAM; Serial: TP-1399
Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-23 13:40:07

DASY Configuration for WLAN/Body - High - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

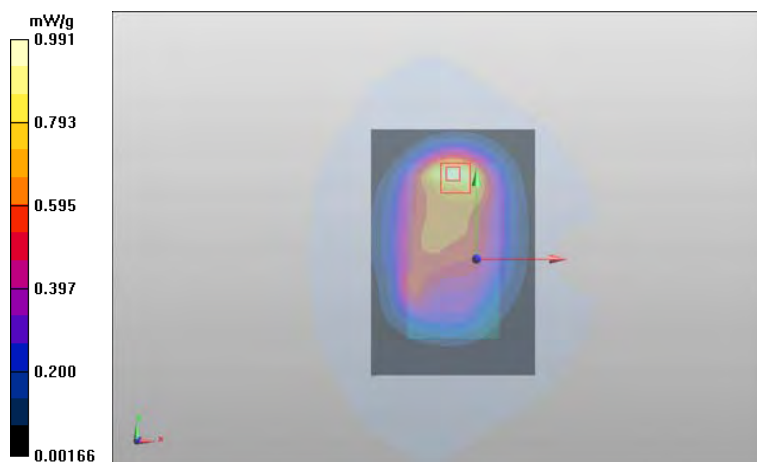
Medium: BSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.961$ mho/m; $\epsilon_r = 51.144$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: EX3DV4 - SN3573; ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn793; Calibrated: 2011-09-16
Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
Measurement SW: DASY4, Version 4.7 (80)

Fast SAR of Combined Scans: SAR(1 g) = 0.889 mW/g; SAR(10 g) = 0.575 mW/g

Maximum value of SAR (interpolated) = 0.991 mW/g



Date/Time: 2012-07-29 19:35:30

DASY Configuration for 4-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138373/C1

Communication System: 4-slot GPRS850; Frequency: 836.6 MHz; Duty Cycle: 1:2.09991; PMF: 1.44911

Medium: BSL850 Medium parameters used: $f = 837$ MHz; $\sigma = 1.008$ mho/m; $\epsilon_r = 53.63$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ES3DV3 - SN3131; ConvF(5.92, 5.92, 5.92); Calibrated: 2011-09-14;
Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn1316; Calibrated: 2012-02-15
Phantom: SAM 3; Type: Twin SAM 040 CA; Serial: TP-1179
Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-07-23 13:40:07

DASY Configuration for WLAN/Body - High - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.961$ mho/m; $\epsilon_r = 51.144$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: EX3DV4 - SN3573; ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn793; Calibrated: 2011-09-16
Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
Measurement SW: DASY4, Version 4.7 (80)

Fast SAR of Combined Scans: SAR(1 g) = 0.689 mW/g; SAR(10 g) = 0.489 mW/g

Maximum value of SAR (interpolated) = 0.731 mW/g



Date/Time: 2012-07-25 23:07:19

DASY Configuration for Body - Middle - Spacer 10mm - No Accessory -Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138226/D1

Communication System: WCDMA850; Frequency: 835 MHz; Duty Cycle: 1:1; PMF: 1

Medium: M900 Medium parameters used: $f = 835$ MHz; $\sigma = 0.978$ mho/m; $\epsilon_r = 55.206$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ET3DV6R - SN1399; ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
Phantom: SAM3; Type: SAM; Serial: TP-1399
Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-23 13:40:07

DASY Configuration for WLAN/Body - High - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

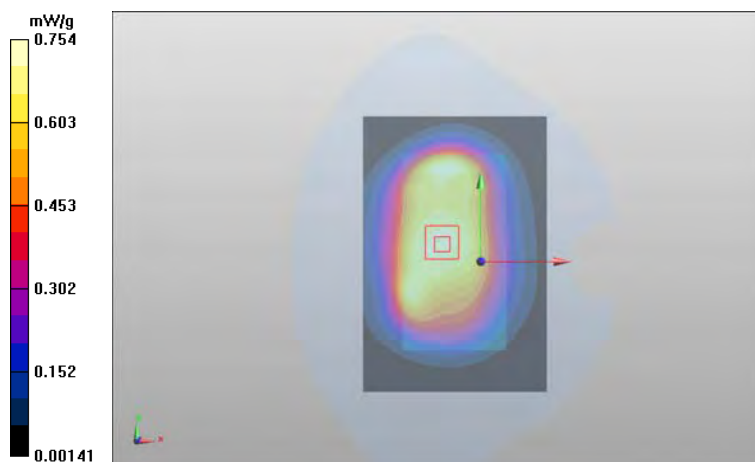
Medium: BSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.961$ mho/m; $\epsilon_r = 51.144$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: EX3DV4 - SN3573; ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn793; Calibrated: 2011-09-16
Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
Measurement SW: DASY4, Version 4.7 (80)

Fast SAR of Combined Scans: SAR(1 g) = 0.688 mW/g; SAR(10 g) = 0.492 mW/g

Maximum value of SAR (interpolated) = 0.754 mW/g



Date/Time: 2012-07-23 13:04:47

DASY Configuration for CDMA/Body - Middle - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: MSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.508$ mho/m; $\epsilon_r = 52.268$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ET3DV6 - SN1739; ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

Electronics: DAE4 Sn756; Calibrated: 2011-08-26

Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-23 13:40:07

DASY Configuration for WLAN/Body - High - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.961$ mho/m; $\epsilon_r = 51.144$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: EX3DV4 - SN3573; ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

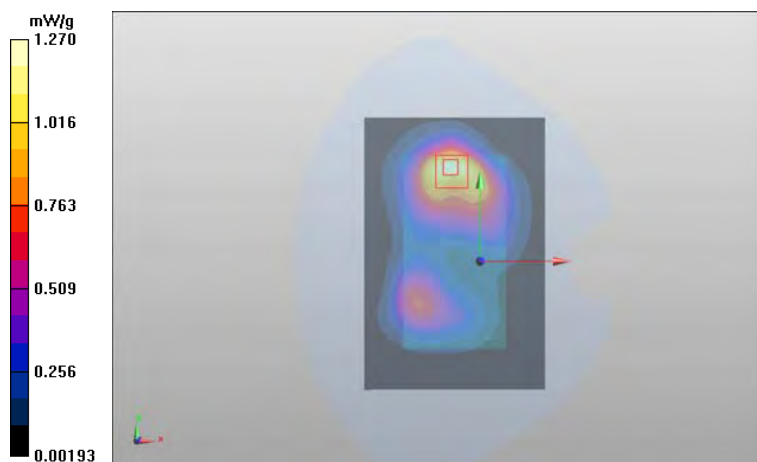
Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177

Measurement SW: DASY4, Version 4.7 (80)

Fast SAR of Combined Scans: SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.642 mW/g

Maximum value of SAR (interpolated) = 1.27 mW/g



Date/Time: 2012-07-28 13:08:47

DASY Configuration for 2-slot GPRS/Body - Middle - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: 2-slot GPRS1900; Frequency: 1880 MHz; Duty Cycle: 1:4.19952; PMF: 2.04927

Medium: MSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.579$ mho/m; $\epsilon_r = 52.086$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ET3DV6 - SN1739; ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;
Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn756; Calibrated: 2011-08-26
Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-23 13:40:07

DASY Configuration for WLAN/Body - High - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

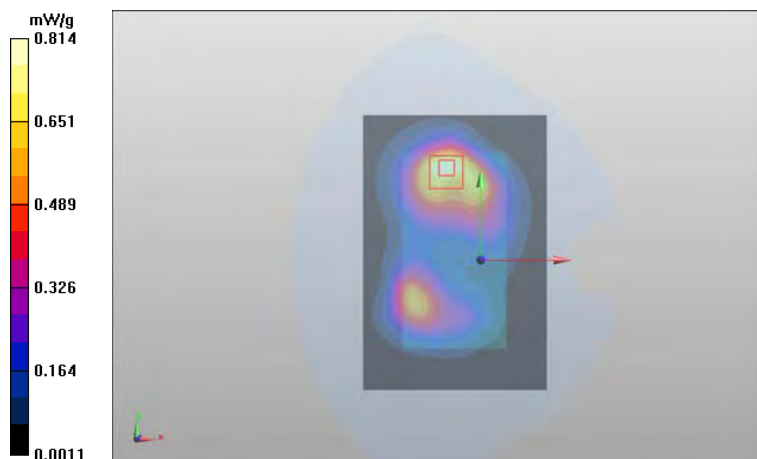
Medium: BSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.961$ mho/m; $\epsilon_r = 51.144$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: EX3DV4 - SN3573; ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;
Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn793; Calibrated: 2011-09-16
Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
Measurement SW: DASY4, Version 4.7 (80)

Fast SAR of Combined Scans: SAR(1 g) = 0.730 mW/g; SAR(10 g) = 0.420 mW/g

Maximum value of SAR (interpolated) = 0.814 mW/g



Date/Time: 2012-07-30 12:09:36

DASY Configuration for WCDMA/Body - Middle - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1383245/D2

Communication System: WCDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: MSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 51.809$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ET3DV6 - SN1739; ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn756; Calibrated: 2011-08-26

Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-23 13:40:07

DASY Configuration for WLAN/Body - High - Spacer 10mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.961$ mho/m; $\epsilon_r = 51.144$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: EX3DV4 - SN3573; ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

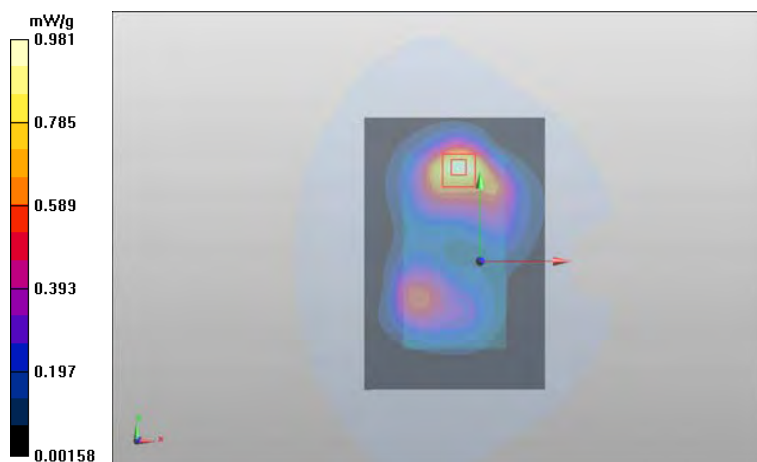
Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177

Measurement SW: DASY4, Version 4.7 (80)

Fast SAR of Combined Scans: SAR(1 g) = 0.878 mW/g; SAR(10 g) = 0.499 mW/g

Maximum value of SAR (interpolated) = 0.981 mW/g



APPENDIX B.4: SVLTE MODE MEASUREMENTS SCANS

Date/Time: 2012-07-23 15:40:44

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/FF2

Communication System: SVLTE750 **(Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.1

Medium parameters used: f = 782 MHz; σ = 0.922 mho/m; ϵ_r = 39.928; ρ = 1000 kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan (81x121x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.141 mW/g

LTE - Left/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.578 V/m

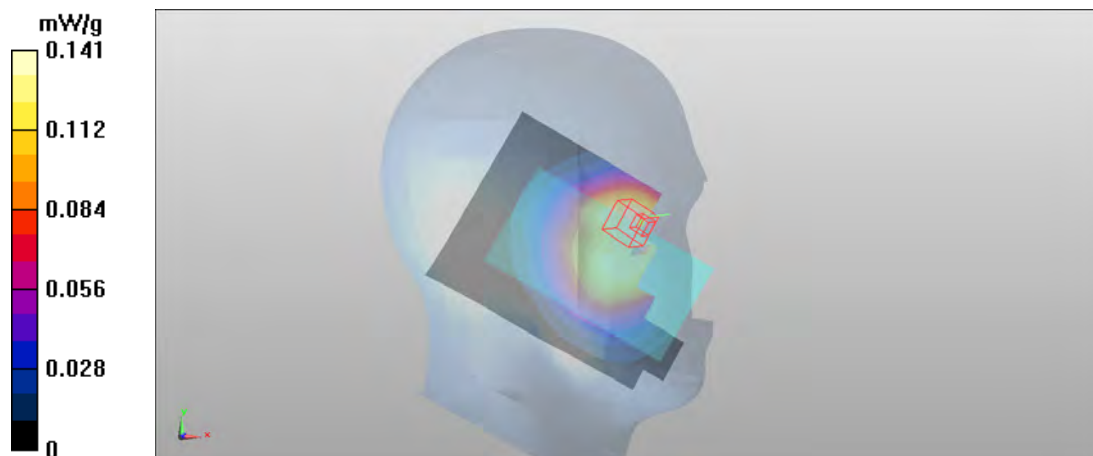
Peak SAR (extrapolated) = 0.183 mW/g

SAR(1 g) = 0.136 mW/g

SAR(10 g) = 0.097 mW/g

Power Drift = -0.04 dB

Maximum value of SAR (measured) = 0.146 mW/g



Date/Time: 2012-07-23 16:00:29

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/FF2

Communication System: SVLTE750 (Band 13)**

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.1

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.922 \text{ mho/m}$; $\epsilon_r = 39.928$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Left/Tilt - QPSK - 10MHz - 1 RB - 50% offset/Area Scan (81x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.0879 mW/g

LTE - Left/Tilt - QPSK - 10MHz - 1 RB - 50% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.897 V/m

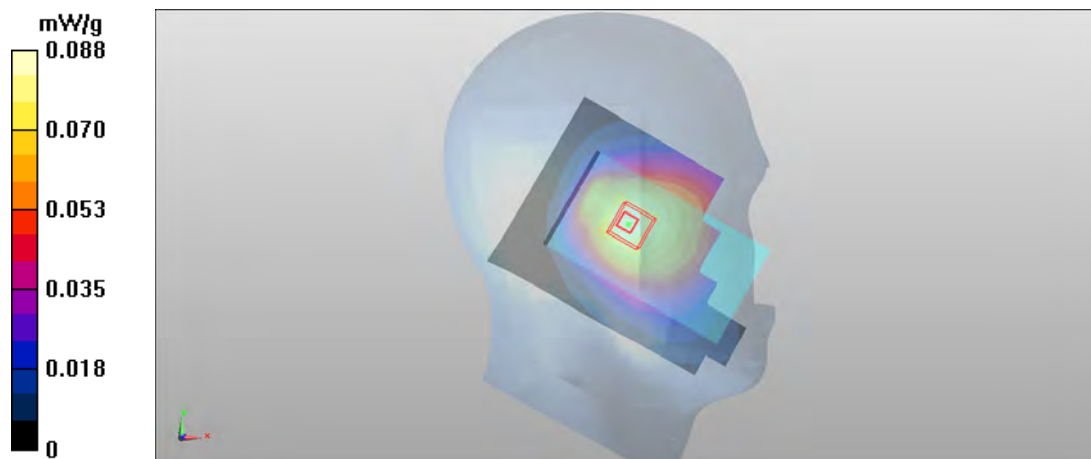
Peak SAR (extrapolated) = 0.107 mW/g

SAR(1 g) = 0.082 mW/g

SAR(10 g) = 0.061 mW/g

Power Drift = -0.08 dB

Maximum value of SAR (measured) = 0.0861 mW/g



Date/Time: 2012-07-23 17:07:58

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/FF2

Communication System: SVLTE750 (Band 13)**

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.1

Medium parameters used: f = 782 MHz; $\sigma = 0.922$ mho/m; $\epsilon_r = 39.928$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan (81x121x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.252 mW/g

LTE - Right/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.511 V/m

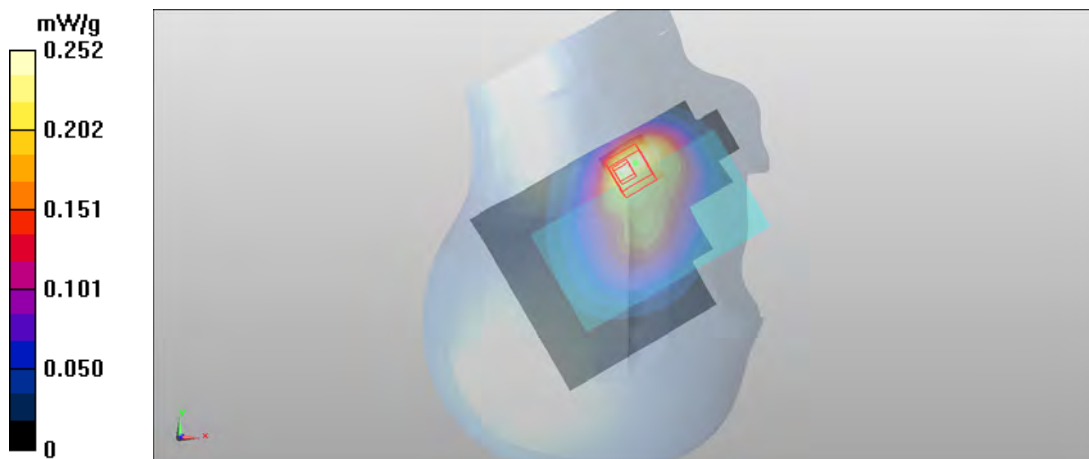
Peak SAR (extrapolated) = 0.394 mW/g

SAR(1 g) = 0.260 mW/g

SAR(10 g) = 0.169 mW/g

Power Drift = 0.10 dB

Maximum value of SAR (measured) = 0.281 mW/g



Date/Time: 2012-07-23 17:40:20

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/FF2

Communication System: SVLTE750 (Band 13)**

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.1

Medium parameters used: f = 782 MHz; $\sigma = 0.922$ mho/m; $\epsilon_r = 39.928$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE - Right/Tilt - QPSK - 10MHz - 1 RB - 50% offset/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.102 mW/g

LTE - Right/Tilt - QPSK - 10MHz - 1 RB - 50% offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.068 V/m

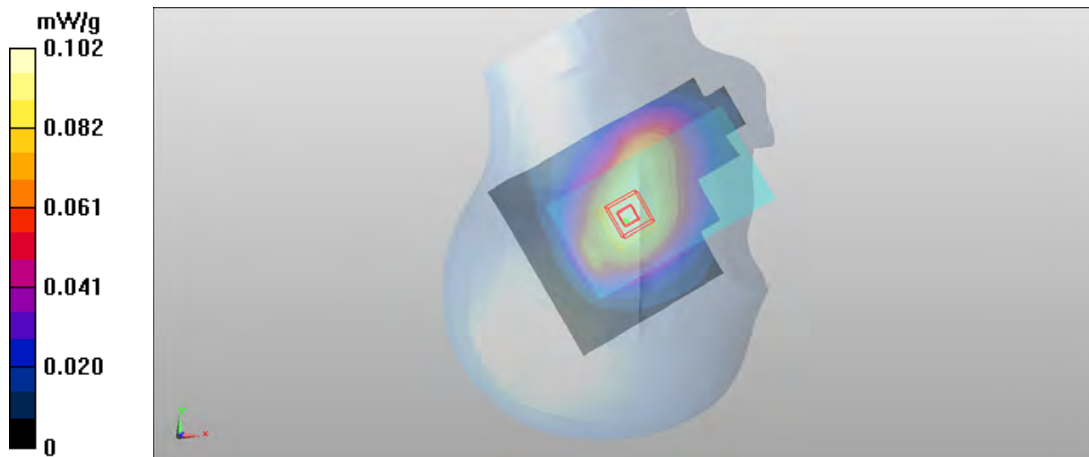
Peak SAR (extrapolated) = 0.122 mW/g

SAR(1 g) = 0.097 mW/g

SAR(10 g) = 0.073 mW/g

Power Drift = 0.18 dB

Maximum value of SAR (measured) = 0.102 mW/g



Date/Time: 2012-08-29 19:51:35

Test Laboratory: TCC Nokia
Type: RM-845; Serial: C1A138332/BC1

Communication System: CDMA1900***

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=22.3C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.358$ mho/m; $\epsilon_r = 39.365$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(4.92, 4.92, 4.92); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2012-08-15
- Phantom: SAM1; Type: QD000P40CC; Serial: TP:1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA 1900/CDMA - Left/Cheek - Low/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.428 mW/g

CDMA 1900/CDMA - Left/Cheek - Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.816 V/m

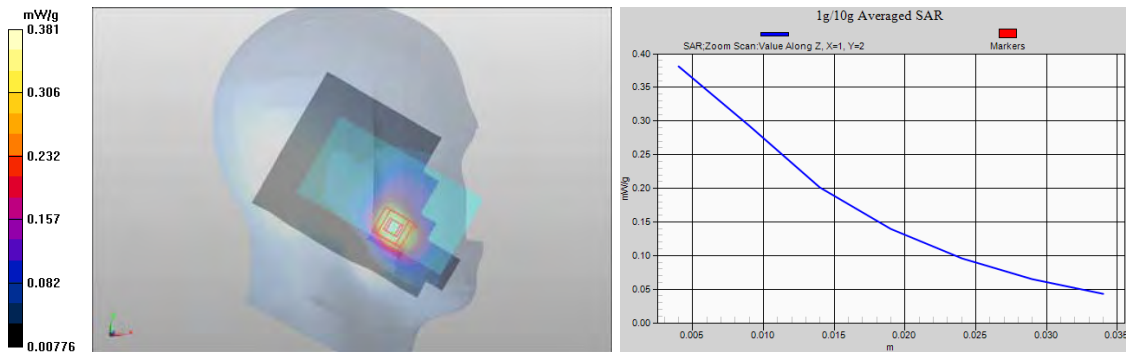
Peak SAR (extrapolated) = 0.486 mW/g

SAR(1 g) = 0.362 mW/g

SAR(10 g) = 0.228 mW/g

Power Drift = 0.04 dB

Maximum value of SAR (measured) = 0.381 mW/g



Date/Time: 2012-08-29 18:23:19

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138332/BC1

Communication System: CDMA1900***

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T=22.3C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.385$ mho/m; $\epsilon_r = 39.267$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(4.92, 4.92, 4.92); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2012-08-15
- Phantom: SAM1; Type: QD000P40CC; Serial: TP:1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA 1900/CDMA - Left/Tilt - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.162 mW/g

CDMA 1900/CDMA - Left/Tilt - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.592 V/m

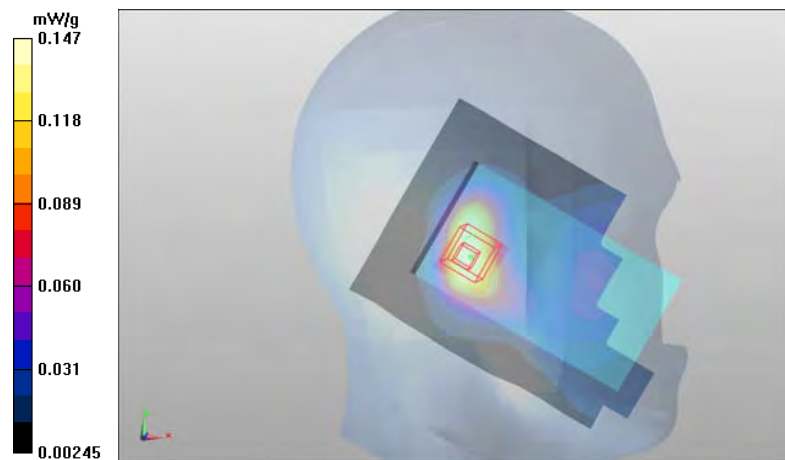
Peak SAR (extrapolated) = 0.191 mW/g

SAR(1 g) = 0.137 mW/g

SAR(10 g) = 0.087 mW/g

Power Drift = -0.12 dB

Maximum value of SAR (measured) = 0.147 mW/g



Date/Time: 2012-08-29 18:43:40

Test Laboratory: TCC Nokia

Type: Type: RM-845; Serial: C1A138332/BC1

Communication System: CDMA1900***

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes:

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.385 \text{ mho/m}$; $\epsilon_r = 39.267$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(4.92, 4.92, 4.92); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2012-08-15
- Phantom: SAM1; Type: QD000P40CC; Serial: TP:1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Right/Cheek - Middle/Area Scan (81x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.278 mW/g

CDMA - Right/Cheek - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.785 V/m

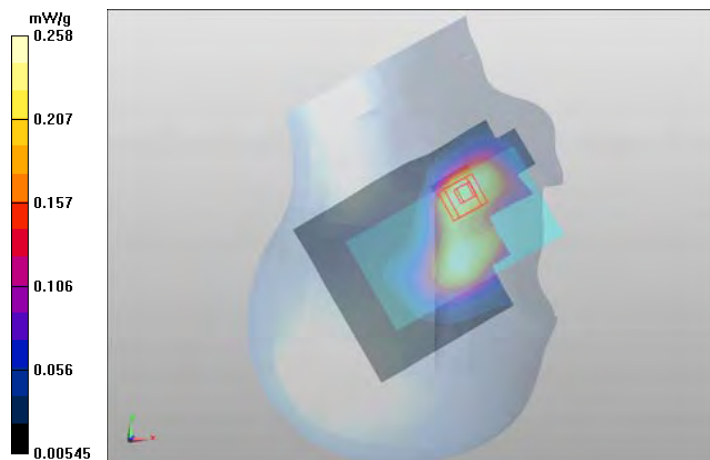
Peak SAR (extrapolated) = 0.332 mW/g

SAR(1 g) = 0.238 mW/g

SAR(10 g) = 0.156 mW/g

Power Drift = -0.15 dB

Maximum value of SAR (measured) = 0.258 mW/g



Date/Time: 2012-08-29 19:13:04

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138332/BC1

Communication System: CDMA1900***

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes:

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.385$ mho/m; $\epsilon_r = 39.267$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(4.92, 4.92, 4.92); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2012-08-15
- Phantom: SAM1; Type: QD000P40CC; Serial: TP:1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Right/Tilt - Middle/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.202 mW/g

CDMA - Right/Tilt - Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.520 V/m

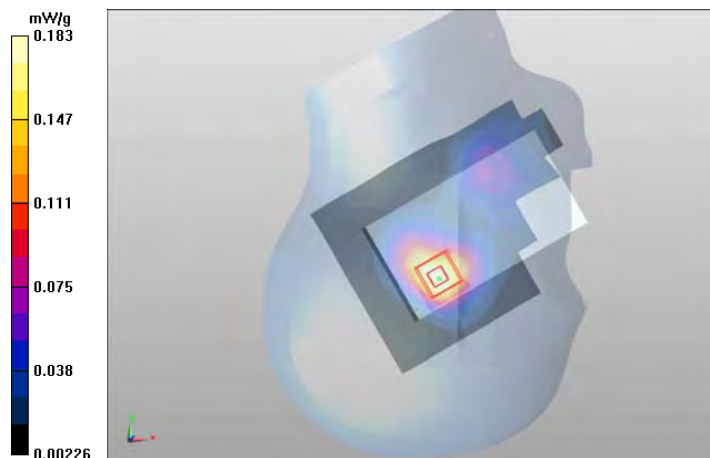
Peak SAR (extrapolated) = 0.234 mW/g

SAR(1 g) = 0.169 mW/g

SAR(10 g) = 0.108 mW/g

Power Drift = -0.28 dB

Maximum value of SAR (measured) = 0.183 mW/g



Date/Time: 2012-08-11 20:06:36

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: SVLTE750 (Band 13) EXPANDED ZOOM SCAN

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 20.6 C

Medium parameters used: f = 782 MHz; σ = 0.932 mho/m; ϵ_r = 40.785; ρ = 1000 kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

LTE - Right/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset - Volume Scan (17x18x7): Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.837 V/m

Peak SAR (extrapolated) = 0.9870

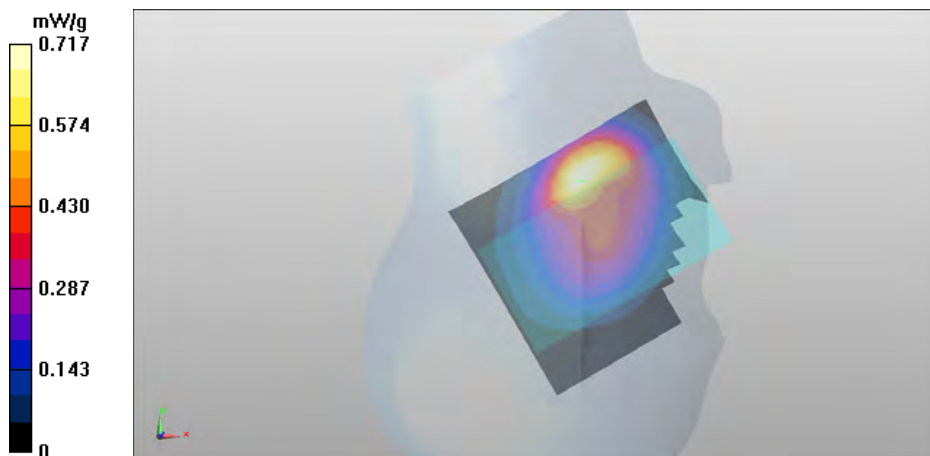
SAR(1 g) = 0.698 mW/g

SAR(10 g) = 0.446 mW/g

Power Drift = -0.03 dB

Total Absorbed Power = 0.0524564 W

Maximum value of SAR (measured) = 0.717 mW/g



Date/Time: 2012-09-04 12:49:28

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/FF2

Communication System: SVLTE750 (band 13) EXPANDED ZOOM SCAN**

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: t= 21.1

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 40.328$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.6 (6824)

LTE - Right/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset - Volume Scan (17x18x7): Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.989 V/m

Peak SAR (extrapolated) = 0.401 mW/g

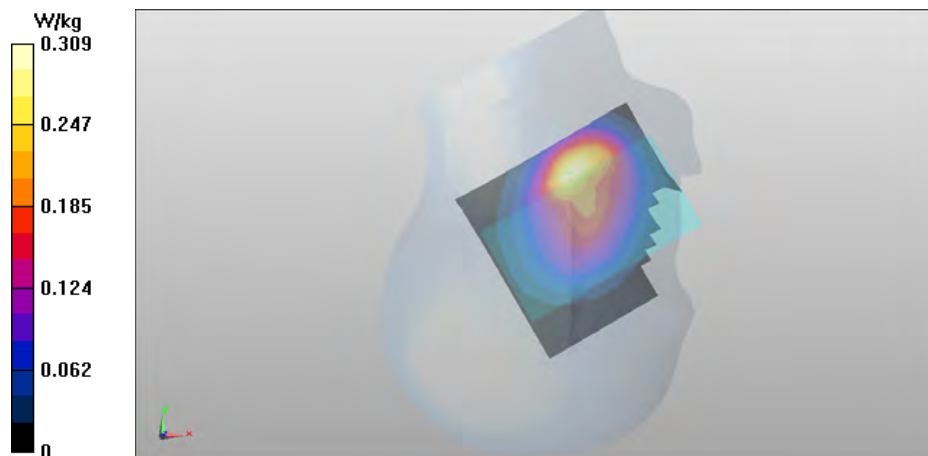
SAR(1 g) = 0.285 mW/g

SAR(10 g) = 0.185 mW/g

Power Drift = -0.18 dB

Total Absorbed Power = 0.0224 W

Maximum value of SAR (measured) = 0.309 W/kg



Date/Time: 2012-08-11 18:18:59

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055 EXPANDED ZOOM SCAN

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: HSL900; Medium Notes:

Medium parameters used: $f = 837$ MHz; $\sigma = 0.874$ mho/m; $\epsilon_r = 40.234$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6 - SN1739
- ConvF(6.29, 6.29, 6.29); Calibrated: 2011-09-22;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn604; Calibrated: 2012-07-31
- Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Right/Cheek – Middle - Volume Scan (17x18x7): Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.765 V/m

Peak SAR (extrapolated) = 0.555 mW/g

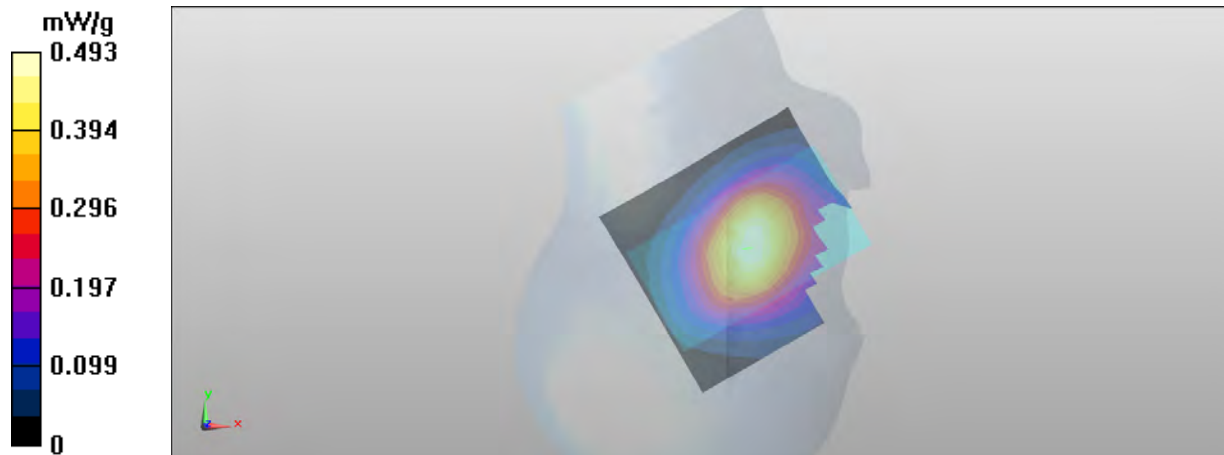
SAR(1 g) = 0.472 mW/g

SAR(10 g) = 0.364 mW/g

Power Drift = -0.28 dB

Total Absorbed Power = 0.0577 W

Maximum value of SAR (measured) = 0.493 mW/g



Date/Time: 2012-09-04 13:45:14

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900 RC3/S055 EXPANDED ZOOM SCAN

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T = 22.3 C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.429$ mho/m; $\epsilon_r = 39.993$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(4.92, 4.92, 4.92); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2012-08-15
- Phantom: SAM1; Type: QD000P40CC; Serial: TP:1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Right/Cheek - Volume Scan (17x18x7): Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.950 V/m

Peak SAR (extrapolated) = 1.076 mW/g

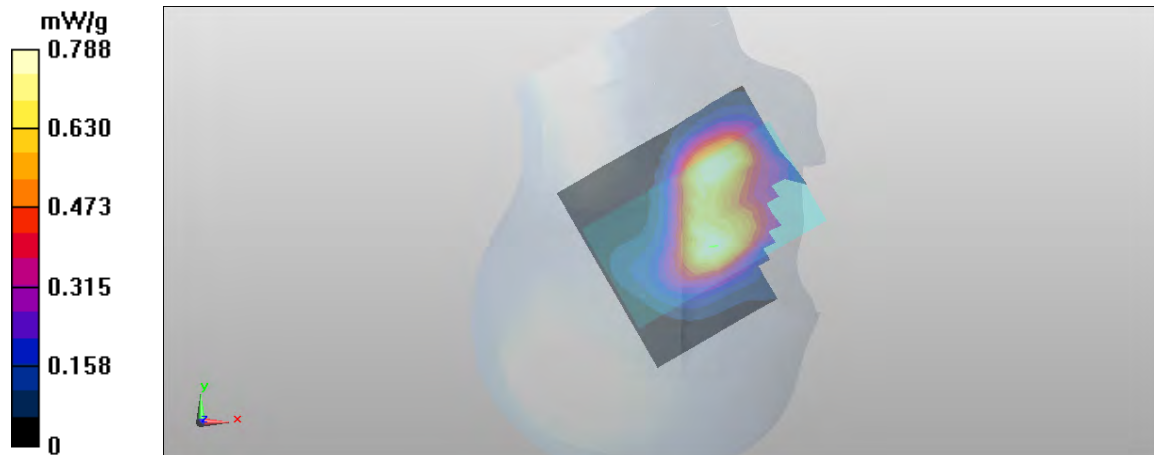
SAR(1 g) = 0.744 mW/g

SAR(10 g) = 0.497 mW/g

Power Drift = -0.34 dB

Total Absorbed Power = 0.0689 W

Maximum value of SAR (measured) = 0.788 mW/g



Date/Time: 2012-09-04 11:55:01

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138332/BC1

Communication System: CDMA1900*RC3/S055 EXPANDED ZOOM SCAN**

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T = 22.3 C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.429$ mho/m; $\epsilon_r = 39.993$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(4.92, 4.92, 4.92); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2012-08-15
- Phantom: SAM1; Type: QD000P40CC; Serial: TP:1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Right/Cheek - Volume Scan (17x18x7): Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.812 V/m

Peak SAR (extrapolated) = 0.356 mW/g

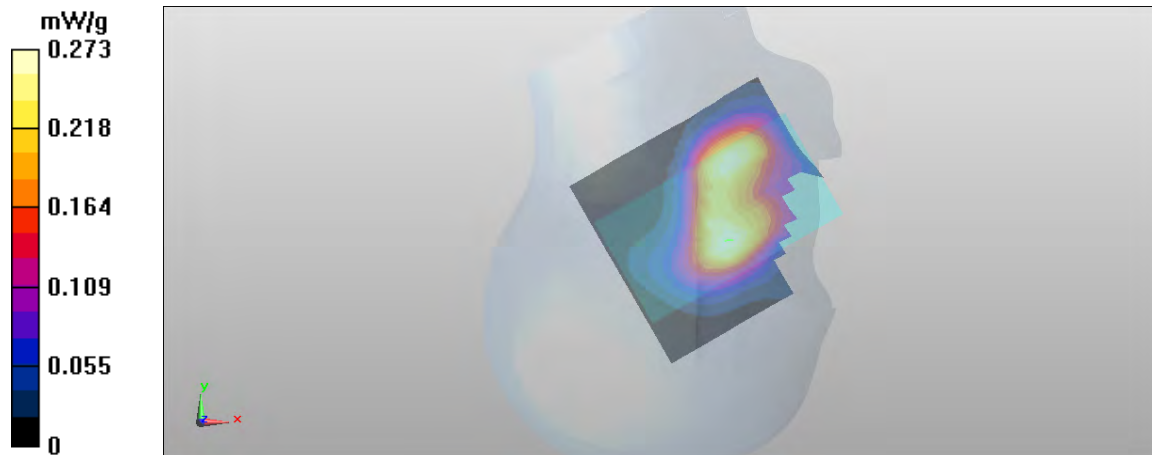
SAR(1 g) = 0.255 mW/g

SAR(10 g) = 0.173 mW/g

Power Drift = -0.01 dB

Total Absorbed Power = 0.0238 W

Maximum value of SAR (measured) = 0.273 mW/g



Date/Time: 2012-08-11 19:49:26

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode EXPANDED ZOOM SCAN

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium Notes: $t = 21.3$ C

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.818$ mho/m; $\epsilon_r = 37.882$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3573
- ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2011-09-16
- Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.4 (4989)

WLAN - Right/Cheek – High - Volume Scan (17x18x7): Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 9.017 V/m

Peak SAR (extrapolated) = 1.6730

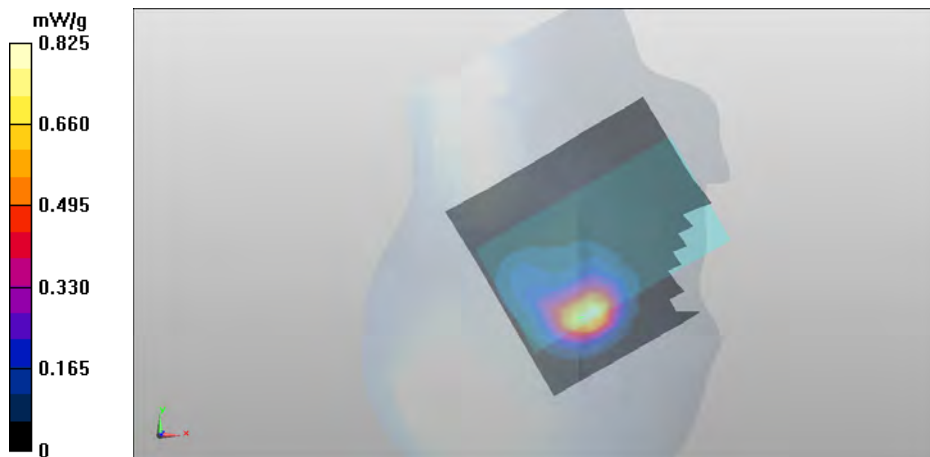
SAR(1 g) = 0.757 mW/g

SAR(10 g) = 0.355 mW/g

Power Drift = -0.06 dB

Total Absorbed Power = 0.0137855 W

Maximum value of SAR (measured) = 0.825 mW/g



Date/Time: 2012-09-04 12:58:18

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1138344/G4

Communication System: WLAN5000 a-mode EXPANDED ZOOM SCAN

Frequency: 5280 MHz; Duty Cycle: 1:1

Medium: HSL5000; Medium Notes: 21.3 C

Medium parameters used: $f = 5280$ MHz; $\sigma = 4.602$ mho/m; $\epsilon_r = 34.985$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3834
- ConvF(4.57, 4.57, 4.57); Calibrated: 2012-02-07;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2012-02-14
- Phantom: SAM1; Type: SAM; Serial: TP-1126
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.6.6 (6824)

WLAN - Right/Cheek - Channel 56 - Volume Scan (17x18x7): Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 2.695 V/m

Peak SAR (extrapolated) = 1.465 mW/g

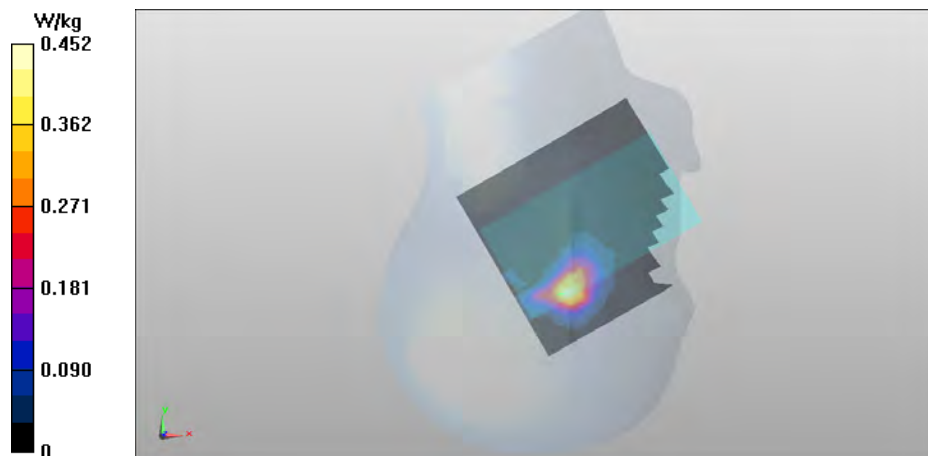
SAR(1 g) = 0.226 mW/g

SAR(10 g) = 0.084 mW/g

Power Drift = 1.35 dB

Total Absorbed Power = 0.00224 W

Maximum value of SAR (measured) = 0.452 W/kg



Date/Time: 2012-07-19 15:19:58

DASY Configuration for LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.932 \text{ mho/m}$; $\epsilon_r = 40.425$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Probe: ES3DV3 - SN3165; ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP:

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-07-19 19:02:41

DASY Configuration for CDMA - Right/Cheek - Middle/Area Scan:

Test Laboratory: The name of your organization

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055; Frequency: 836.52 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL835 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.899 \text{ mho/m}$; $\epsilon_r = 41.755$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Probe: ET3DV6R - SN1399; ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

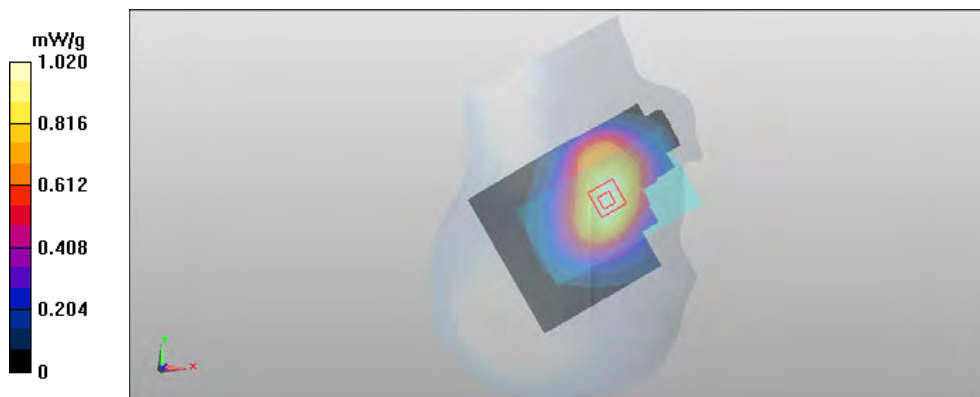
Electronics: DAE3 Sn420; Calibrated: 2011-07-21

Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279

Measurement SW: DASY4, Version 4.7 (80)

Fast SAR of Combined Scans: SAR(1 g) = 0.960 mW/g; SAR(10 g) = 0.679 mW/g

Maximum value of SAR (interpolated) = 1.02 mW/g



Date/Time: 2012-08-29 18:43:40

DASY Configuration for CDMA1900 Right/CDMA - Right/Cheek - Middle/Area Scan:

Test Laboratory: The name of your organization

Type: Type: RM-845; Serial: C1A138332/BC1

Communication System: CDMA1900***; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.385$ mho/m; $\epsilon_r = 39.267$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ET3DV6R - SN1399; ConvF(4.92, 4.92, 4.92); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 2012-08-15

Phantom: SAM1; Type: QD000P40CC; Serial: TP:1279

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-19 15:19:58

DASY Configuration for LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE13; Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ES3DV3 - SN3165; ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

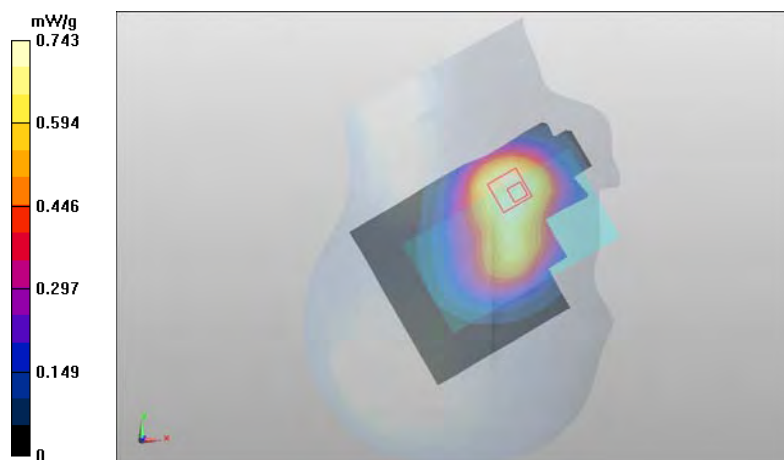
Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP:xxxx

Measurement SW: DASY52, Version 52.8 (0)

Fast SAR of Combined Scans: SAR(1 g) = 0.696 mW/g; SAR(10 g) = 0.481 mW/g

Maximum value of SAR (interpolated) = 0.743 mW/g



Date/Time: 2012-07-23 15:40:44

DASY Configuration for LTE - Left/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/F2

Communication System: LTE750** (Band13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.922 \text{ mho/m}$; $\epsilon_r = 39.928$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Probe: ES3DV3 - SN3165; ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-07-23 17:53:01

DASY Configuration for CDMA - Left/Cheek - Low/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900 RC3/S055; Frequency: 1851.25 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1900 Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.383 \text{ mho/m}$; $\epsilon_r = 38.596$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Probe: ET3DV6 - SN1739; ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;

Sensor-Surface: 4mm (Mechanical Surface Detection)

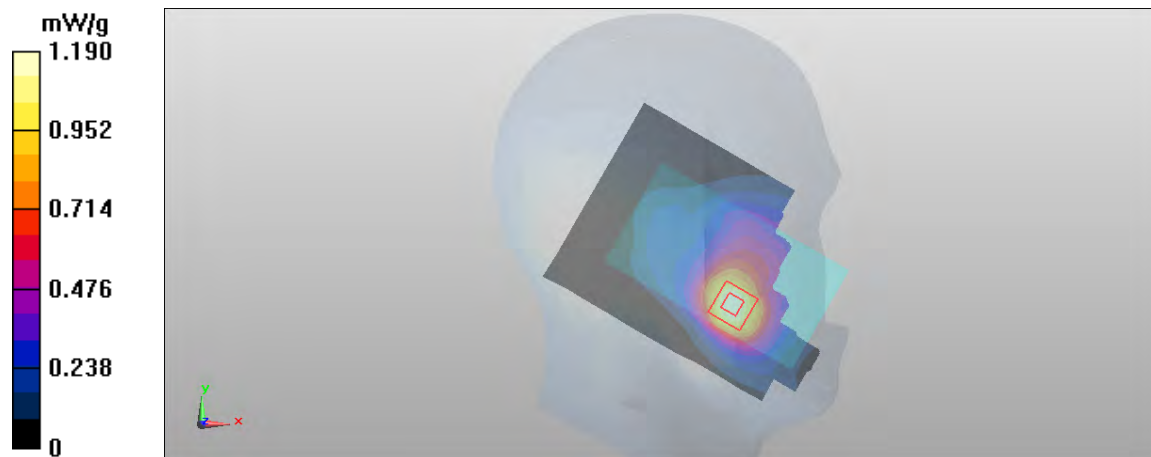
Electronics: DAE4 Sn756; Calibrated: 2011-08-26

Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630

Measurement SW: DASY52, Version 52.8 (1)

Fast SAR of Combined Scans: SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.654 mW/g

Maximum value of SAR (interpolated) = 1.19 mW/g



Date/Time: 2012-07-19 15:19:58

DASY Configuration for LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ES3DV3 - SN3165; ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial:

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-07-19 19:02:41

DASY Configuration for CDMA - Right/Cheek - Middle/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055; Frequency: 836.52 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL835 Medium parameters used: $f = 837$ MHz; $\sigma = 0.899$ mho/m; $\epsilon_r = 41.755$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ET3DV6R - SN1399; ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn420; Calibrated: 2011-07-21

Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279

Measurement SW: DASY4, Version 4.7 (80)

DASY Configuration for WLAN - Right/Cheek- High/Area Scan:

Date/Time: 2012-07-20 15:34:06

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL 2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.809$ mho/m; $\epsilon_r = 37.906$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: EX3DV4 - SN3573; ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection)

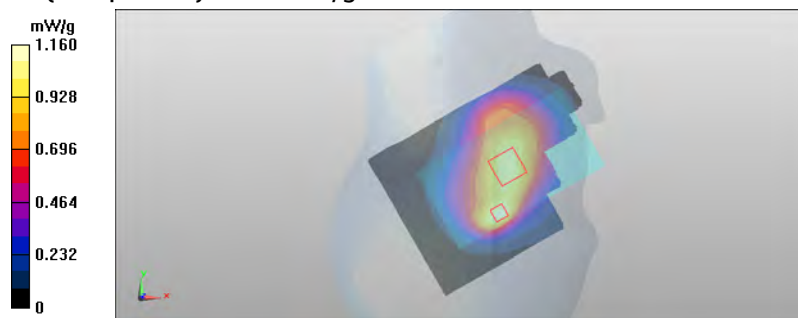
Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018

Measurement SW: DASY52, Version 52.8 (0)

Fast SAR of Combined Scans: SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.704 mW/g

Maximum value of SAR (interpolated) = 1.16 mW/g



SAR Report

Appendix B.4 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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Date/Time: 2012-07-19 15:19:58

DASY Configuration for LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ES3DV3 - SN3165; ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP:xxxx

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-07-19 19:02:41

DASY Configuration for CDMA - Right/Cheek - Middle/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055; Frequency: 836.52 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL835 Medium parameters used: $f = 837$ MHz; $\sigma = 0.899$ mho/m; $\epsilon_r = 41.755$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ET3DV6R - SN1399; ConvF(5.82, 5.82, 5.82); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn420; Calibrated: 2011-07-21

Phantom: SAM2; Type: Twin Phantom; Serial: TP-1279

Measurement SW: DASY4, Version 4.7 (80)

DASY Configuration for WLAN - Right/Cheek - Channel 56/Area Scan:

Date/Time: 2012-08-01 12:23:12

Test Laboratory: The name of your organization

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode; Frequency: 5280 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL5200 Medium parameters used: $f = 5280$ MHz; $\sigma = 4.672$ mho/m; $\epsilon_r = 34.839$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: EX3DV4 - SN3834; ConvF(4.57, 4.57, 4.57); Calibrated: 2012-02-07;

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))

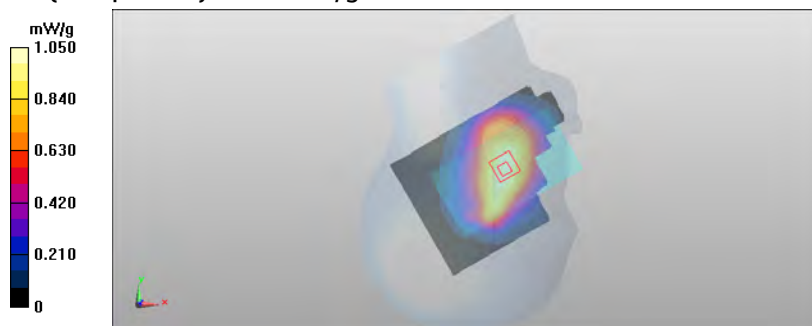
Electronics: DAE4 Sn1213; Calibrated: 2012-02-14

Phantom: SAM1; Type: SAM; Serial: TP-1126

Measurement SW: DASY52, Version 52.8 (1)

Fast SAR of Combined Scans: SAR(1 g) = 0.976 mW/g; SAR(10 g) = 0.686 mW/g

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



Date/Time: 2012-08-29 18:43:40

DASY Configuration for CDMA1900 Right/CDMA - Right/Cheek - Middle/Area Scan:

Test Laboratory: The name of your organization

Type: RM-845; Serial: C1A138332/BC1

Communication System: CDMA1900***; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.385$ mho/m; $\epsilon_r = 39.267$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ET3DV6R - SN1399; ConvF(4.92, 4.92, 4.92); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 2012-08-15

Phantom: SAM1; Type: QD000P40CC; Serial: TP:1279

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-19 15:19:58

DASY Configuration for LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ES3DV3 - SN3165; ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP:

Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for Wlan Right/Cheek- High/Area Scan:

Date/Time: 2012-07-20 15:34:06

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1138223/30593/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL 2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.809$ mho/m; $\epsilon_r = 37.906$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: EX3DV4 - SN3573; ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection)

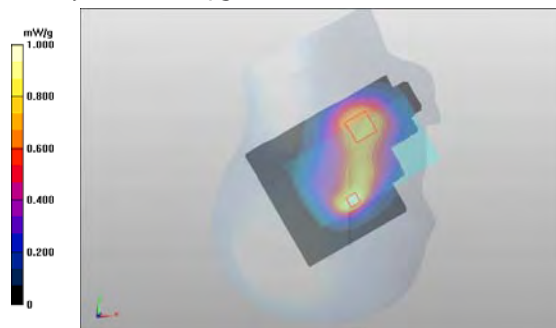
Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP:1018

Measurement SW: DASY52, Version 52.8 (0)

Fast SAR of Combined Scans: SAR(1 g) = 0.871 mW/g; SAR(10 g) = 0.488 mW/g

Maximum value of SAR (interpolated) = 1.00 mW/g



Date/Time: 2012-08-29 18:43:40

DASY Configuration for CDMA1900 Right/CDMA - Right/Cheek - Middle/Area Scan:

Test Laboratory: The name of your organization

Type: RM-845; Serial: C1A138332/BC1

Communication System: CDMA1900***; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.385$ mho/m; $\epsilon_r = 39.267$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ET3DV6R - SN1399; ConvF(4.92, 4.92, 4.92); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 2012-08-15

Phantom: SAM1; Type: QD000P40CC; Serial: TP:1279

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-19 15:19:58

DASY Configuration for LTE - Right/Cheek - Right - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.425$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ES3DV3 - SN3165; ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP:

Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for WLAN - Right/Cheek - Channel 56/Area Scan:

Date/Time: 2012-08-01 12:23:12

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1138344/G4

Communication System: WLAN5000 a-mode; Frequency: 5280 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL5200 Medium parameters used: $f = 5280$ MHz; $\sigma = 4.672$ mho/m; $\epsilon_r = 34.839$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: EX3DV4 - SN3834; ConvF(4.57, 4.57, 4.57); Calibrated: 2012-02-07;

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))

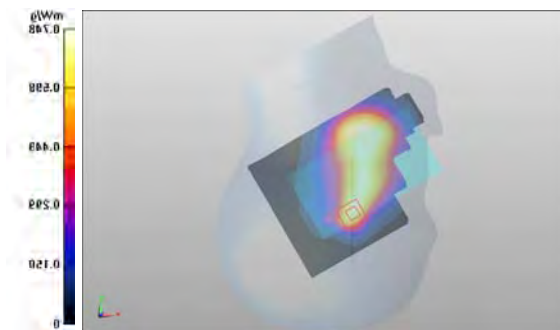
Electronics: DAE4 Sn1213; Calibrated: 2012-02-14

Phantom: SAM1; Type: SAM; Serial: TP-1126

Measurement SW: DASY4, Version 4.7 (80)

Fast SAR of Combined Scans: SAR(1 g) = 0.701 mW/g; SAR(10 g) = 0.485 mW/g

Maximum value of SAR (interpolated) = 0.748 mW/g



Date/Time: 2012-07-23 17:07:58

DASY Configuration for LTE - Right/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/F2

Communication System: LTE750** (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 0.922$ mho/m; $\epsilon_r = 39.928$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ES3DV3 - SN3165; ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP:

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-07-20 15:34:06

DASY Configuration for WLAN - Right/Cheek- High/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL 2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.809$ mho/m; $\epsilon_r = 37.906$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: EX3DV4 - SN3573; ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018

Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for CDMA - Right/Cheek - Middle/Area Scan:

Date/Time: 2012-07-18 11:59:02

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900 RC3/S055; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.449$ mho/m; $\epsilon_r = 38.967$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ET3DV6 - SN1739; ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;

Sensor-Surface: 4mm (Mechanical Surface Detection)

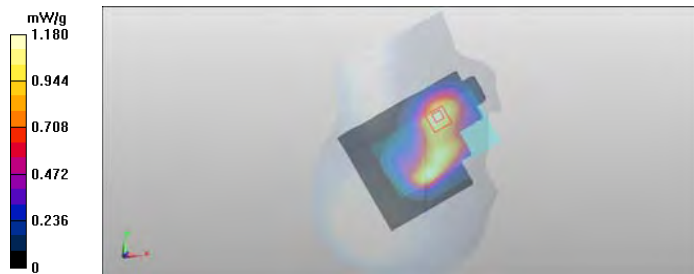
Electronics: DAE4 Sn701; Calibrated: 2011-07-21

Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630

Measurement SW: DASY52, Version 52.8 (1)

Fast SAR of Combined Scans: SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.650 mW/g

Maximum value of SAR (interpolated) = 1.18 mW/g



SAR Report

Appendix B.4 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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Date/Time: 2012-07-23 17:07:58

DASY Configuration for LTE - Right/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/F2

Communication System: LTE750** (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.922 \text{ mho/m}$; $\epsilon_r = 39.928$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Probe: ES3DV3 - SN3165; ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial:

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-08-01 12:23:12

DASY Configuration for WLAN - Right/Cheek - Channel 56/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode; Frequency: 5280 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL5200 Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 4.672 \text{ mho/m}$; $\epsilon_r = 34.839$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Probe: EX3DV4 - SN3834; ConvF(4.57, 4.57, 4.57); Calibrated: 2012-02-07;

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))

Electronics: DAE4 Sn1213; Calibrated: 2012-02-14

Phantom: SAM1; Type: SAM; Serial: TP-1126

Measurement SW: DASY52, Version 52.8 (1)

DASY Configuration for CDMA - Right/Cheek - Middle/Area Scan:

Date/Time: 2012-07-18 11:59:02

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.449 \text{ mho/m}$; $\epsilon_r = 38.967$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Probe: ET3DV6 - SN1739; ConvF(5.07, 5.07, 5.07); Calibrated: 2011-09-22;

Sensor-Surface: 4mm (Mechanical Surface Detection)

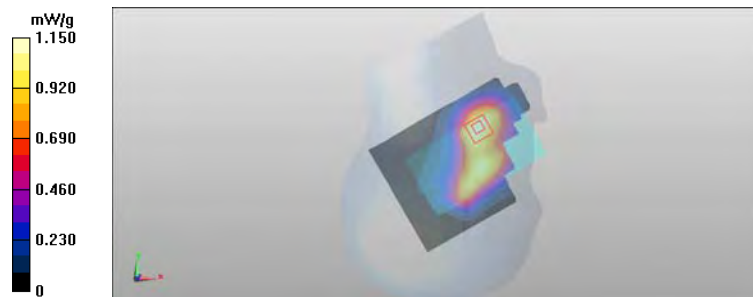
Electronics: DAE4 Sn701; Calibrated: 2011-07-21

Phantom: SAM 3; Type: QD000P40CD; Serial: TP1630

Measurement SW: DASY52, Version 52.8 (1)

Fast SAR of Combined Scans: SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.645 mW/g

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



SAR Report

Appendix B.4 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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EXPANDED ZOOM SCAN

Date/Time: 2012-08-11 18:18:59

DASY Configuration for CDMA - Right/Cheek/ Volume Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055; Frequency: 836.52 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.874$ mho/m; $\epsilon_r = 40.234$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ET3DV6 - SN1739; ConvF(6.29, 6.29, 6.29); Calibrated: 2011-09-22;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 2012-07-31

Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-08-11 20:06:36

DASY Configuration for LTE - Right/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset /Volume Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: SVLTE750 (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.785$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ES3DV3 - SN3165; ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial:

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-08-11 19:49:26

DASY Configuration for WLAN - Right/Cheek - High/Volume Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1138223/30593/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.818$ mho/m; $\epsilon_r = 37.882$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: EX3DV4 - SN3573; ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018

Measurement SW: DASY4, Version 4.7 (80)

Multi Band Result /EXPANDED ZOOM SCAN. This includes the SVLTE750 + CDMA800 + WLAN2450

SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.689 mW/g

Maximum value of SAR (interpolated) = 2.05 mW/g



SAR Report

Appendix B.4 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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EXPANDED ZOOM SCAN

Date/Time: 2012-08-11 18:18:59

DASY Configuration for CDMA - Right/Cheek/ Volume Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055; Frequency: 836.52 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.874$ mho/m; $\epsilon_r = 40.234$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ET3DV6 - SN1739; ConvF(6.29, 6.29, 6.29); Calibrated: 2011-09-22;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 2012-07-31

Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-08-11 20:06:36

DASY Configuration for LTE - Right/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset /Volume Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: SVLTE750 (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.785$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ES3DV3 - SN3165; ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial:

Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for WLAN - Right/Cheek - Channel 56/Volume Scan:

Date/Time: 2012-09-04 12:58:18

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1138344/G4

Communication System: WLAN5000 a-mode; Frequency: 5280 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL5000 Medium parameters used: $f = 5280$ MHz; $\sigma = 4.602$ mho/m; $\epsilon_r = 34.985$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: EX3DV4 - SN3834; ConvF(4.57, 4.57, 4.57); Calibrated: 2012-02-07;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 2012-02-14

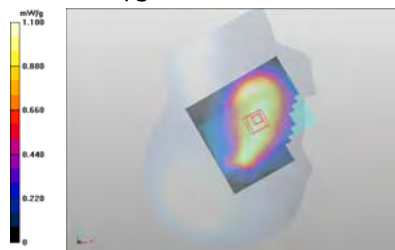
Phantom: SAM1; Type: SAM; Serial: TP-1126

Measurement SW: DASY4, Version 4.7 (80)

Multi Band Result / EXPANDED ZOOM SCAN. This includes the SVLTE750 + CDMA800 + WLAN5000

SAR(1 g) = 0.857 mW/g; SAR(10 g) = 0.645 mW/g

Maximum value of SAR (interpolated) = 1.10 mW/g



SAR Report

Appendix B.4 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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EXPANDED ZOOM SCAN

Date/Time: 2012-08-11 20:06:36

DASY Configuration for LTE - Right/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset /Volume Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: SVLTE750 (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 0.932$ mho/m; $\epsilon_r = 40.785$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ES3DV3 - SN3165; ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial:

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-09-04 11:55:01

DASY Configuration for CDMA1900 BC1 18.5dBm/Right/Cheek/Volume Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138332/BC1

Communication System: CDMA1900***; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.429$ mho/m; $\epsilon_r = 39.993$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ET3DV6R - SN1399; ConvF(4.92, 4.92, 4.92); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 2012-08-15

Phantom: SAM1; Type: QD000P40CC; Serial: TP:1279

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-08-11 19:49:26

DASY Configuration for WLAN - Right/Cheek - High/Volume Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1138223/30593/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.818$ mho/m; $\epsilon_r = 37.882$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: EX3DV4 - SN3573; ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 2011-09-16

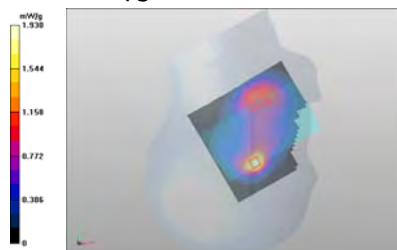
Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018

Measurement SW: DASY4, Version 4.7 (80)

Multi Band Result / EXPANDED ZOOM SCAN. This includes the SVLTE750 + CDMA1900*** + WLAN2450

SAR(1 g) = 0.954 mW/g; SAR(10 g) = 0.547 mW/g

Maximum value of SAR (interpolated) = 1.93 mW/g



SAR Report

Appendix B.4 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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EXPANDED ZOOM SCAN

Date/Time: 2012-09-04 12:49:28

DASY Configuration for LTE - Right/Cheek - Middle - QPSK - 10MHz - 1 RB - 50% offset/Volume Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/F2

Communication System: LTE750** (band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 40.328$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ES3DV3 - SN3165; ConvF(6.13, 6.13, 6.13); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #4 CRP ; Type: QD000P40CD; Serial: TP:

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-09-04 13:45:14

DASY Configuration for CDMA1900 A2/Right/Cheek/Volume Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.429$ mho/m; $\epsilon_r = 39.993$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: ET3DV6R - SN1399; ConvF(4.92, 4.92, 4.92); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 2012-08-15

Phantom: SAM1; Type: QD000P40CC; Serial: TP:1279

Measurement SW: DASY52, Version 52.8 (1)

DASY Configuration for WLAN - Right/Cheek - High/Volume Scan:

Date/Time: 2012-08-11 19:49:26

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1138223/30593/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.818$ mho/m; $\epsilon_r = 37.882$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Probe: EX3DV4 - SN3573; ConvF(6.52, 6.52, 6.52); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 2011-09-16

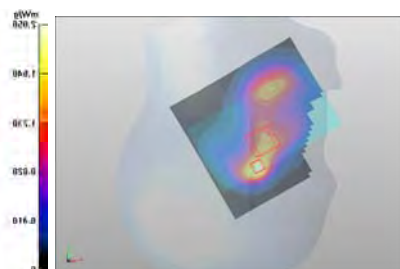
Phantom: SAM 4; Type: Twin SAM 040 CA; Serial: TP-1018

Measurement SW: DASY4, Version 4.7 (80)

Multi Band Result / EXPANDED ZOOM SCAN. This includes the SVLTE750 + CDMA1900 + WLAN2450**

SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.700 mW/g

Maximum value of SAR (interpolated) = 2.05 mW/g



SAR Report

Appendix B.4 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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Date/Time: 2012-07-20 15:40:53

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/FF2

Communication System: SVLTE750 (Band 13)**

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.199 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - No Accessory - Back Facing

Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.073 V/m

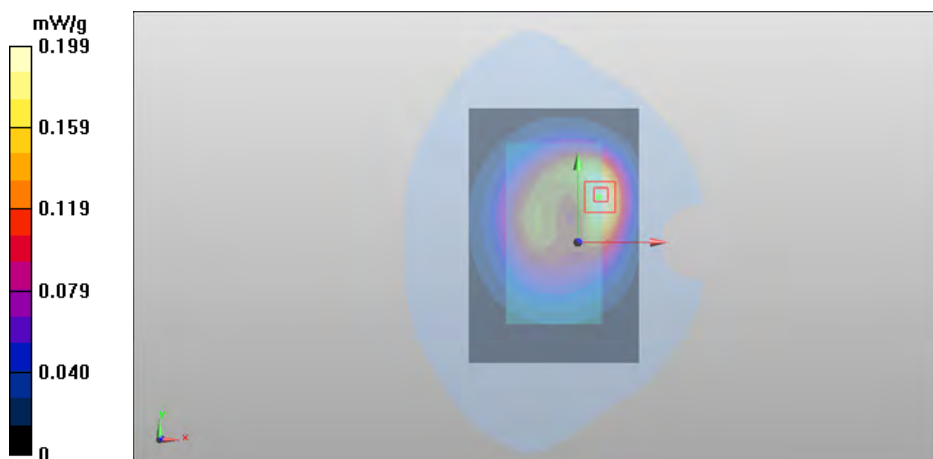
Peak SAR (extrapolated) = 0.267 mW/g

SAR(1 g) = 0.193 mW/g

SAR(10 g) = 0.130 mW/g

Power Drift = 0.02 dB

Maximum value of SAR (measured) = 0.207 mW/g



Date/Time: 2012-07-20 16:05:52

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/FF2

Communication System: SVLTE750 (Band 13)**

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - WH-902 - Back Facing Phantom/Area

Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.194 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - WH-902 - Back Facing Phantom/Zoom

Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.698 V/m

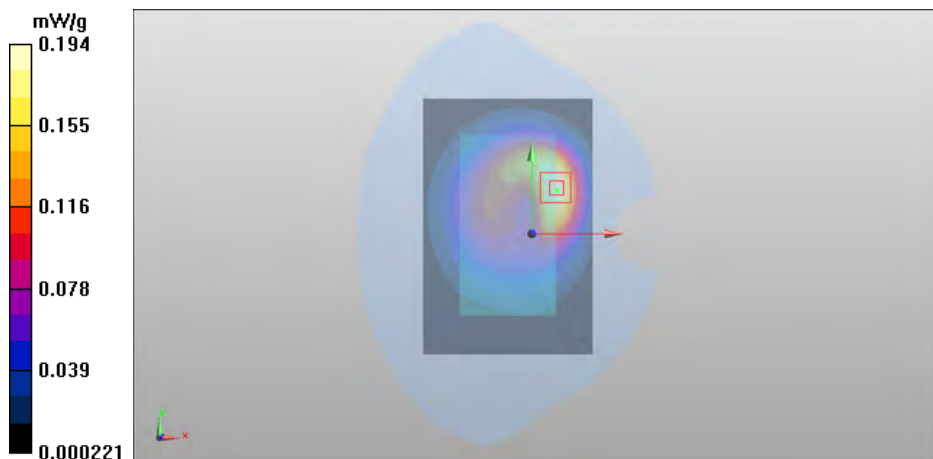
Peak SAR (extrapolated) = 0.256 mW/g

SAR(1 g) = 0.184 mW/g

SAR(10 g) = 0.123 mW/g

Power Drift = -0.03 dB

Maximum value of SAR (measured) = 0.201 mW/g



Date/Time: 2012-07-20 17:05:22

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/FF2

Communication System: SVLTE750 **(Band 13)

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - No accessory - Display Facing

Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.124 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - No accessory - Display Facing

Phantom/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.567 V/m

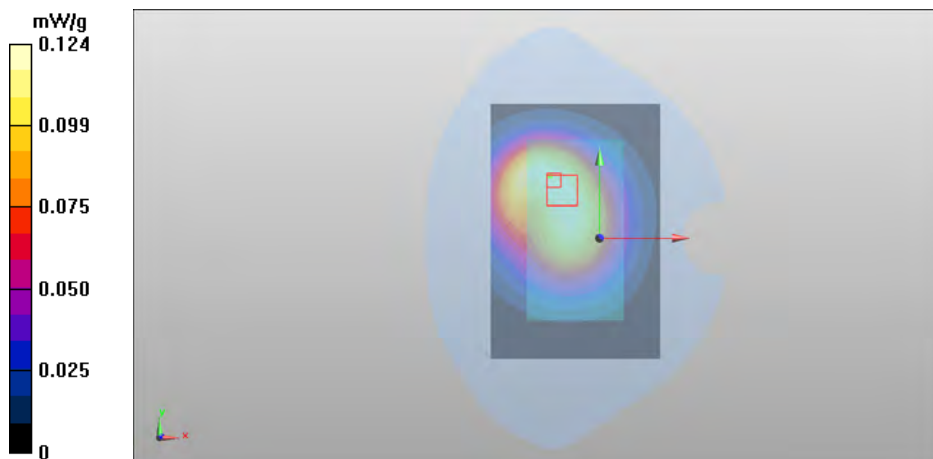
Peak SAR (extrapolated) = 0.165 mW/g

SAR(1 g) = 0.119 mW/g

SAR(10 g) = 0.086 mW/g

Power Drift = -0.06 dB

Maximum value of SAR (measured) = 0.126 mW/g



Date/Time: 2012-07-20 16:43:53

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/FF2

Communication System: SVLTE750 (Band 13)**

Frequency: 782 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: t= 21.2

Medium parameters used: f = 782 MHz; σ = 1.007 mho/m; ϵ_r = 53.736; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3165
- ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
- Phantom: SAM #3 CRP; Type: SAM; Serial:
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.5 (6469)

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - WH-902 - Display Facing Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.104 mW/g

LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - WH-902 - Display Facing Phantom/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.520 V/m

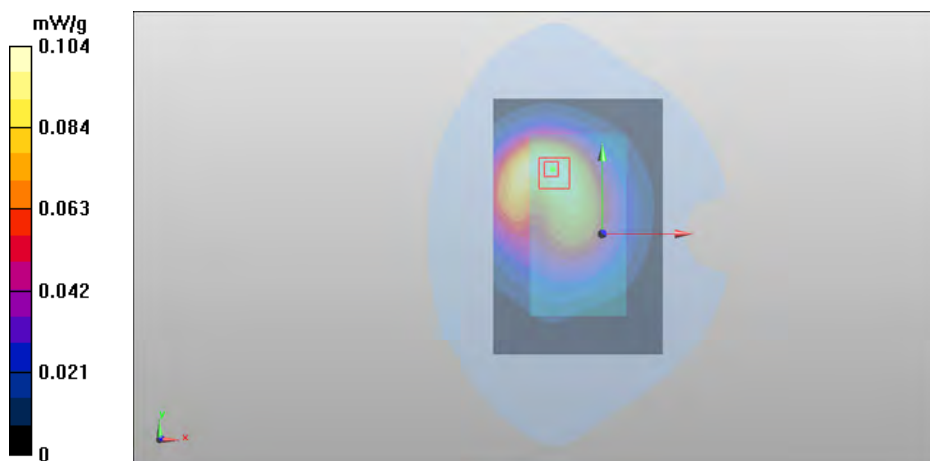
Peak SAR (extrapolated) = 0.136 mW/g

SAR(1 g) = 0.098 mW/g

SAR(10 g) = 0.069 mW/g

Power Drift = 0.09 dB

Maximum value of SAR (measured) = 0.105 mW/g



Date/Time: 2012-08-31 11:23:42

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138332/BC1

Communication System: CDMA1900***

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.1C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.539$ mho/m; $\epsilon_r = 51.859$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(4.47, 4.47, 4.47); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2012-08-15
- Phantom: SAM3; Type: QD000P40CD; Serial: TP: 1729
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.240 mW/g

CDMA - Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.561 V/m

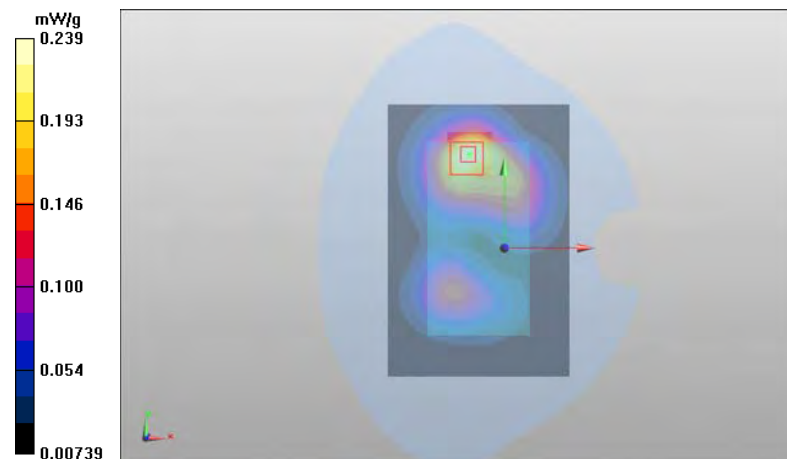
Peak SAR (extrapolated) = 0.325 mW/g

SAR(1 g) = 0.219 mW/g

SAR(10 g) = 0.138 mW/g

Power Drift = 0.13 dB

Maximum value of SAR (measured) = 0.239 mW/g



Date/Time: 2012-08-31 11:49:17

Test Laboratory: TCC Nokia
Type: RM-845; Serial: C1A138332/BC1

Communication System: CDMA1900***

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.1C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.539$ mho/m; $\epsilon_r = 51.859$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(4.47, 4.47, 4.47); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2012-08-15
- Phantom: SAM3; Type: QD000P40CD; Serial: TP: 1729
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Body - Middle - Spacer 15mm - WH-208 - Back Facing Phantom/Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.235 mW/g

CDMA - Body - Middle - Spacer 15mm - WH-208 - Back Facing Phantom/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.800 V/m

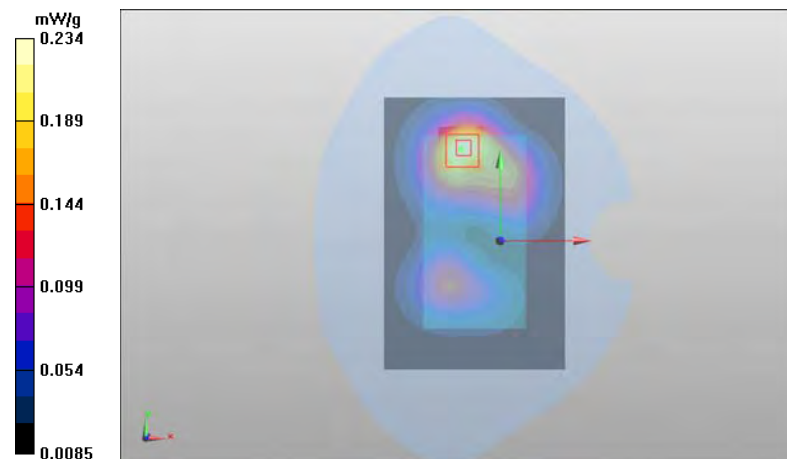
Peak SAR (extrapolated) = 0.317 mW/g

SAR(1 g) = 0.215 mW/g

SAR(10 g) = 0.136 mW/g

Power Drift = -0.02 dB

Maximum value of SAR (measured) = 0.234 mW/g



Date/Time: 2012-08-31 12:18:21

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138332/BC1

Communication System: CDMA1900***

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.1C

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.539$ mho/m; $\epsilon_r = 51.859$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399
- ConvF(4.47, 4.47, 4.47); Calibrated: 2012-02-10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn701; Calibrated: 2012-08-15
- Phantom: SAM3; Type: QD000P40CD; Serial: TP: 1729
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Body - Middle - Spacer 15mm - No Accessory - Display Facing Phantom 2/Area Scan (81x121x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.257 mW/g

CDMA - Body - Middle - Spacer 15mm - No Accessory - Display Facing Phantom 2/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.563 V/m

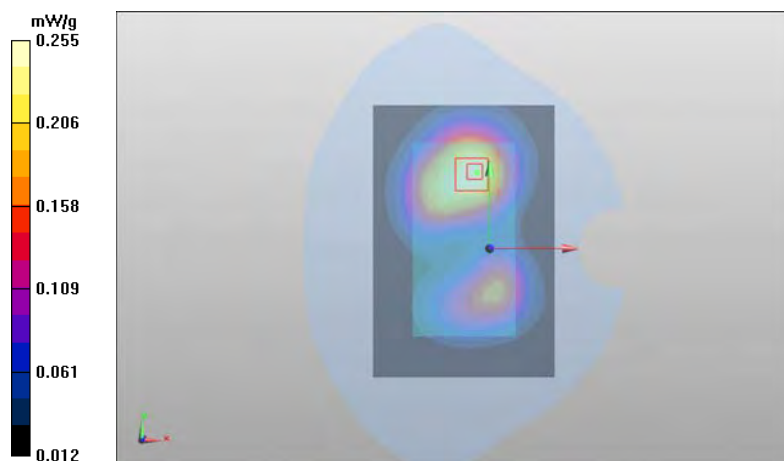
Peak SAR (extrapolated) = 0.343 mW/g

SAR(1 g) = 0.238 mW/g

SAR(10 g) = 0.157 mW/g

Power Drift = -0.12 dB

Maximum value of SAR (measured) = 0.255 mW/g



Date/Time: 2012-08-31 13:09:35

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138332

Communication System: CDMA1900***

Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium Notes: T=22.1C

Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.512$ mho/m; $\epsilon_r = 51.957$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6R - SN1399

- ConvF(4.47, 4.47, 4.47); Calibrated: 2012-02-10;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn701; Calibrated: 2012-08-15

- Phantom: SAM3; Type: QD000P40CD; Serial: TP: 1729

- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

CDMA - Body - Low - Spacer 15mm - WH-208 - Display Facing Phantom /Area Scan 2 (81x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.275 mW/g

CDMA - Body - Low - Spacer 15mm - WH-208 - Display Facing Phantom /Zoom Scan (6x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.509 V/m

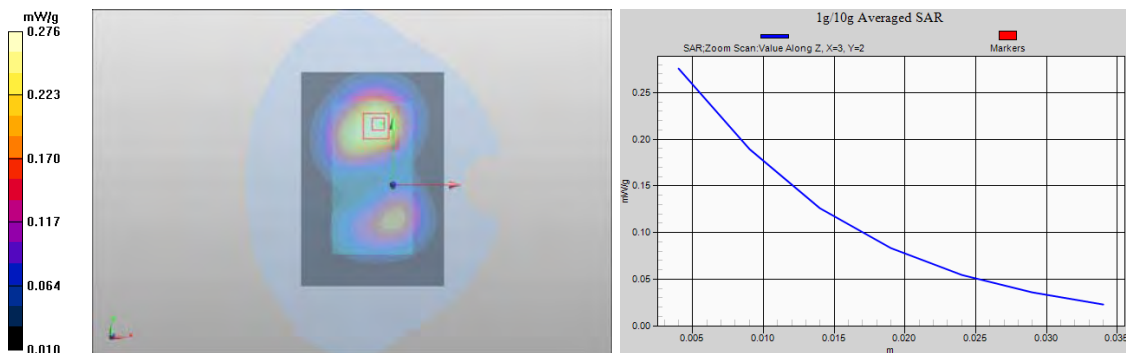
Peak SAR (extrapolated) = 0.363 mW/g

SAR(1 g) = 0.257 mW/g

SAR(10 g) = 0.171 mW/g

Power Drift = -0.01 dB

Maximum value of SAR (measured) = 0.276 mW/g



Date/Time: 2012-07-20 08:10:25

DASY Configuration for LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750 (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 53.736$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ES3DV3 - SN3165; ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
Phantom: SAM #3 CRP; Type: SAM; Serial:
Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-21 20:23:55

DASY Configuration for CDMA/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom 2/Area Scan:

Test Laboratory: The name of your organization

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055; Frequency: 836.52 MHz; Duty Cycle: 1:1; PMF: 1

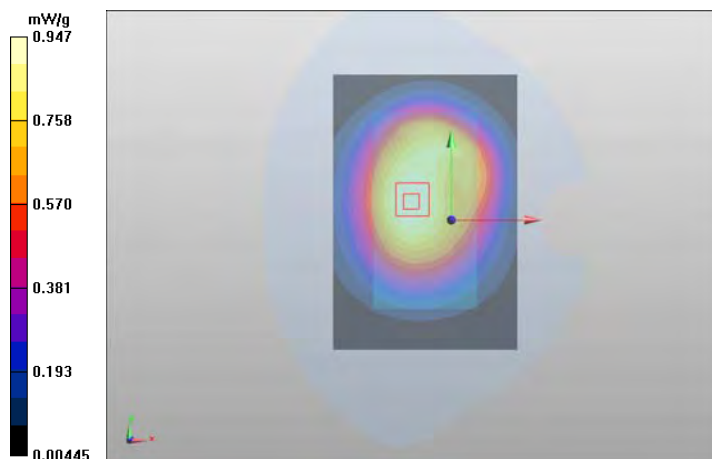
Medium: MSL835 Medium parameters used: $f = 837$ MHz; $\sigma = 1.004$ mho/m; $\epsilon_r = 55.935$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ET3DV6R - SN1399; ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;
Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn1301; Calibrated: 2011-10-27
Phantom: SAM3; Type: SAM; Serial: TP-1399
Measurement SW: DASY4, Version 4.7 (80)

Fast SAR of Combined Scans: SAR(1 g) = 0.897 mW/g; SAR(10 g) = 0.645 mW/g

Maximum value of SAR (interpolated) = 0.947 mW/g



Date/Time: 2012-07-20 08:10:25

DASY Configuration for LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750**(Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 53.736$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ES3DV3 - SN3165; ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;
Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn1309; Calibrated: 2012-01-11
Phantom: SAM #3 CRP; Type: SAM; Serial:
Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-08-31 11:23:42

DASY Configuration for CDMA1900/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138332/BC1

Communication System: CDMA1900***; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

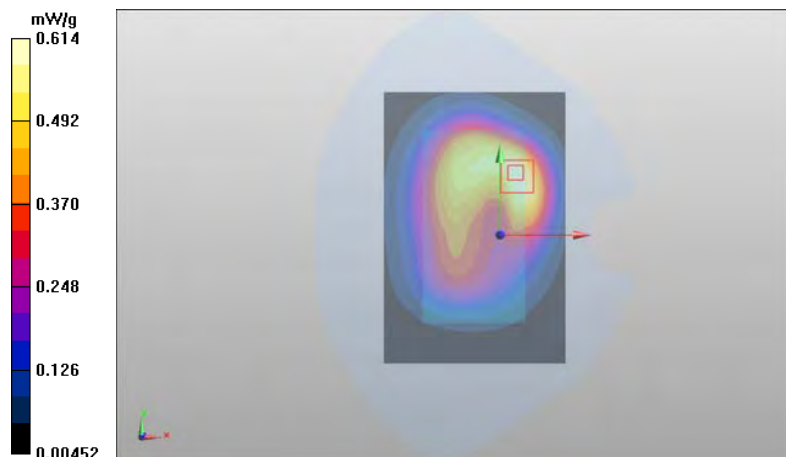
Medium: MSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.539$ mho/m; $\epsilon_r = 51.859$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ET3DV6R - SN1399; ConvF(4.47, 4.47, 4.47); Calibrated: 2012-02-10;
Sensor-Surface: 4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 2012-08-15
Phantom: SAM3; Type: QD000P40CD; Serial: TP: 1729
Measurement SW: DASY52, Version 52.8 (1)

Fast SAR of Combined Scans: SAR(1 g) = 0.568 mW/g; SAR(10 g) = 0.380 mW/g

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



Date/Time: 2012-07-20 16:05:52

DASY Configuration for LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - WH-902 - Back

Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/FF2

Communication System: LTE750 **(Band13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL750 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 1.007 \text{ mho/m}$; $\epsilon_r = 53.736$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: ES3DV3 - SN3165; ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #3 CRP; Type: SAM; Serial:

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-07-18 22:50:12

DASY Configuration for CDMA/Body-Middle-Spacer 15mm-WH-902-Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900 RC3/S055; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: MSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.558 \text{ mho/m}$; $\epsilon_r = 53.003$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: ET3DV6 - SN1739; ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

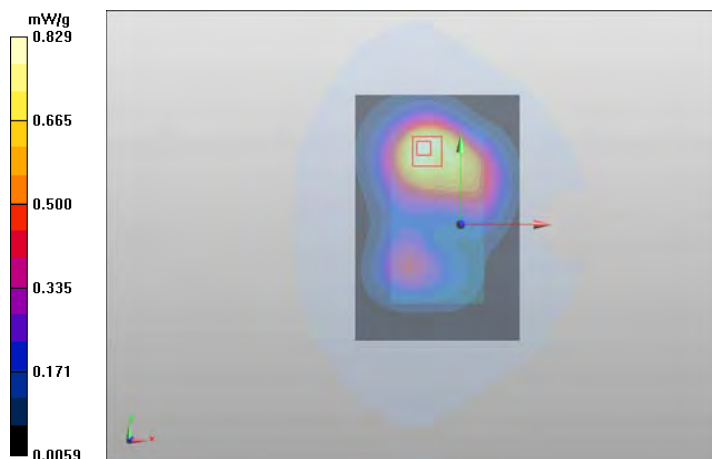
Electronics: DAE4 Sn701; Calibrated: 2011-07-21

Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701

Measurement SW: DASY52, Version 52.8 (1)

Fast SAR of Combined Scans: SAR(1 g) = 0.767 mW/g; SAR(10 g) = 0.480 mW/g

Maximum value of SAR (interpolated) = 0.829 mW/g



Date/Time: 2012-07-20 08:10:25

DASY Configuration for LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750** (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 53.736$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ES3DV3 - SN3165; ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #3 CRP; Type: SAM; Serial:

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-21 20:23:55

DASY Configuration for CDMA/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055; Frequency: 836.52 MHz; Duty Cycle: 1:1; PMF: 1

Medium: MSL835 Medium parameters used: $f = 837$ MHz; $\sigma = 1.004$ mho/m; $\epsilon_r = 55.935$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ET3DV6R - SN1399; ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

Electronics: DAE4 Sn1301; Calibrated: 2011-10-27

Phantom: SAM3; Type: SAM; Serial: TP-1399

Measurement SW: DASY4, Version 4.7 (80)

DASY Configuration for WLAN/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan:

Date/Time: 2012-07-20 18:42:09

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2437 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.934$ mho/m; $\epsilon_r = 51.203$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: EX3DV4 - SN3573; ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177

Measurement SW: DASY4, Version 4.7 (80)

Fast SAR of Combined Scans: SAR(1 g) = 0.920 mW/g; SAR(10 g) = 0.658 mW/g

Maximum value of SAR (interpolated) = 0.972 mW/g



Date/Time: 2012-07-20 08:10:25

SAR Report

Type: RM-845

Appendix B.4 for FCC_RM-845_05

Applicant: Nokia Corporation

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DASY Configuration for LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750** (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL750 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 1.007 \text{ mho/m}$; $\epsilon_r = 53.736$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: ES3DV3 - SN3165; ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #3 CRP; Type: SAM; Serial:

Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2012-07-21 20:23:55

DASY Configuration for CDMA/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom /Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138294/B1

Communication System: CDMA800 RC3/S055; Frequency: 836.52 MHz; Duty Cycle: 1:1; PMF: 1

Medium: MSL835 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 1.004 \text{ mho/m}$; $\epsilon_r = 55.935$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: ET3DV6R - SN1399; ConvF(5.83, 5.83, 5.83); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

Electronics: DAE4 Sn1301; Calibrated: 2011-10-27

Phantom: SAM3; Type: SAM; Serial: TP-1399

Measurement SW: DASY4, Version 4.7 (80)

DASY Configuration for WLAN/Body - Channel 44 - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan:

Date/Time: 2012-08-03 01:59:15

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode; Frequency: 5220 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL5200 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.493 \text{ mho/m}$; $\epsilon_r = 48.671$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: EX3DV4 - SN3834; ConvF(3.99, 3.99, 3.99); Calibrated: 2012-02-07;

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))

Electronics: DAE4 Sn1213; Calibrated: 2012-02-14

Phantom: SAM2; Type: SAM; Serial: TP-1570

Measurement SW: DASY52, Version 52.8 (1)

Fast SAR of Combined Scans: SAR(1 g) = 0.915 mW/g; SAR(10 g) = 0.652 mW/g

Maximum value of SAR (interpolated) = 0.981 mW/g



Date/Time: 2012-07-20 12:53:43

DASY Configuration for LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - WH-902 - Back

Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750**(Band13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 53.736$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ES3DV3 - SN3165; ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #3 CRP; Type: SAM; Serial:

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-08-31 11:49:17

DASY Configuration for CDMA1900/Body - Middle - Spacer 15mm - WH-208 - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138332/BC1

Communication System: CDMA1900***; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: MSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.539$ mho/m; $\epsilon_r = 51.859$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ET3DV6R - SN1399; ConvF(4.47, 4.47, 4.47); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 2012-08-15

Phantom: SAM3; Type: QD000P40CD; Serial: TP: 1729

Measurement SW: DASY52, Version 52.8 (1)

DASY Configuration for WLAN/Body - Middle US - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan:

Date/Time: 2012-07-20 18:42:09

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1138223/30593/G1

Communication System: WLAN2450 b-mode; Frequency: 2437 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.934$ mho/m; $\epsilon_r = 51.203$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: EX3DV4 - SN3573; ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

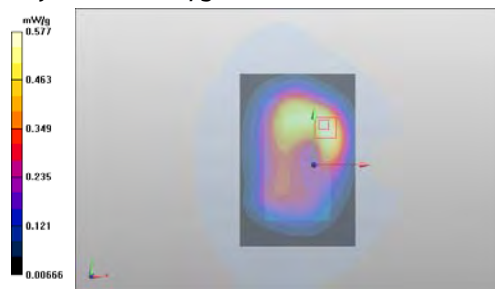
Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177

Measurement SW: DASY4, Version 4.7 (80)

Fast SAR of Combined Scans: SAR(1 g) = 0.533 mW/g; SAR(10 g) = 0.355 mW/g

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



SAR Report

Appendix B.4 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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Date/Time: 2012-07-20 08:10:25

DASY Configuration for LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A18246/E2

Communication System: LTE750**(Band13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL750 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 1.007 \text{ mho/m}$; $\epsilon_r = 53.736$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: ES3DV3 - SN3165; ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #3 CRP; Type: SAM; Serial:

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-08-31 11:23:42

DASY Configuration for CDMA1900/Body - Middle - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138332/BC1

Communication System: CDMA1900***; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: MSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.539 \text{ mho/m}$; $\epsilon_r = 51.859$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: ET3DV6R - SN1399; ConvF(4.47, 4.47, 4.47); Calibrated: 2012-02-10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 2012-08-15

Phantom: SAM3; Type: QD000P40CD; Serial: TP: 1729

Measurement SW: DASY52, Version 52.8 (1)

DASY Configuration for WLAN/Body - Channel 44 - Spacer 15mm - No Accessory - Back Facing Phantom/Area Scan:

Date/Time: 2012-08-03 01:59:15

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A1138344/G4

Communication System: WLAN5000 a-mode; Frequency: 5220 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL5200 Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 5.493 \text{ mho/m}$; $\epsilon_r = 48.671$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Probe: EX3DV4 - SN3834; ConvF(3.99, 3.99, 3.99); Calibrated: 2012-02-07;

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))

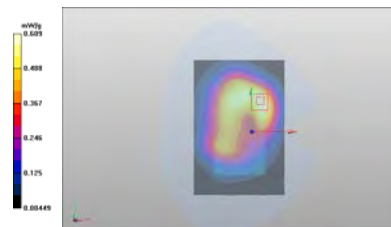
Electronics: DAE4 Sn1213; Calibrated: 2012-02-14

Phantom: SAM2; Type: SAM; Serial: TP-1570

Measurement SW: DASY52, Version 52.8 (1)

Fast SAR of Combined Scans: SAR(1 g) = 0.567 mW/g; SAR(10 g) = 0.381 mW/g

Maximum value of SAR (interpolated) = 0.609 mW/g



Date/Time: 2012-07-20 16:05:52

DASY Configuration for LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan:

Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/FF2

Communication System: LTE750** (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 53.736$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ES3DV3 - SN3165; ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #3 CRP; Type: SAM; Serial:

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-07-18 22:50:12

DASY Configuration for CDMA/Body-Middle-Spacer 15mm-WH-902-Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900 RC3/S055; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: MSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.558$ mho/m; $\epsilon_r = 53.003$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ET3DV6 - SN1739; ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

Electronics: DAE4 Sn701; Calibrated: 2011-07-21

Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701

Measurement SW: DASY52, Version 52.8 (1)

DASY Configuration for WLAN/Body - High - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan:

Date/Time: 2012-07-20 20:29:40

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138223/G1

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.965$ mho/m; $\epsilon_r = 51.098$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: EX3DV4 - SN3573; ConvF(6.45, 6.45, 6.45); Calibrated: 2012-02-23;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

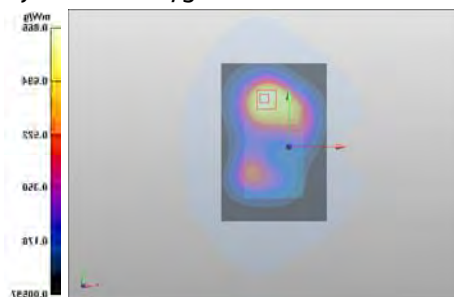
Electronics: DAE4 Sn793; Calibrated: 2011-09-16

Phantom: SAM 2; Type: Twin SAM 040 CA; Serial: TP - 1177

Measurement SW: DASY4, Version 4.7 (80)

Fast SAR of Combined Scans: SAR(1 g) = 0.801 mW/g; SAR(10 g) = 0.497 mW/g

Maximum value of SAR (interpolated) = 0.866 mW/g



SAR Report

Appendix B.4 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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Date/Time: 2012-07-20 16:05:52

DASY Configuration for LTE/Body - Middle - QPSK - 10MHz - 1 RB - 50% offset - Spacer 15mm - WH-902 - Back

Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138405/FF2

Communication System: LTE750** (Band 13); Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL750 Medium parameters used: $f = 782$ MHz; $\sigma = 1.007$ mho/m; $\epsilon_r = 53.736$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ES3DV3 - SN3165; ConvF(6.06, 6.06, 6.06); Calibrated: 2012-02-21;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1309; Calibrated: 2012-01-11

Phantom: SAM #3 CRP; Type: SAM; Serial:

Measurement SW: DASY52, Version 52.8 (0)

Date/Time: 2012-07-18 22:50:12

DASY Configuration for CDMA/Body-Middle-Spacer 15mm-WH-902-Back Facing Phantom/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138211/A2

Communication System: CDMA1900 RC3/S055; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: MSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.558$ mho/m; $\epsilon_r = 53.003$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: ET3DV6 - SN1739; ConvF(4.54, 4.54, 4.54); Calibrated: 2011-09-22;

Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))

Electronics: DAE4 Sn701; Calibrated: 2011-07-21

Phantom: SAM 2; Type: QD000P40CD; Serial: TP1701

Measurement SW: DASY52, Version 52.8 (1)

DASY Configuration for WLAN/Body - Channel 44 - Spacer 15mm - WH-902 - Back Facing Phantom/Area Scan:

Date/Time: 2012-08-03 05:25:40

Test Laboratory: TCC Nokia

Type: RM-845; Serial: C1A138344/G4

Communication System: WLAN5000 a-mode; Frequency: 5220 MHz; Duty Cycle: 1:1; PMF: 1

Medium: BSL5200 Medium parameters used: $f = 5220$ MHz; $\sigma = 5.493$ mho/m; $\epsilon_r = 48.671$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Probe: EX3DV4 - SN3834; ConvF(3.99, 3.99, 3.99); Calibrated: 2012-02-07;

Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))

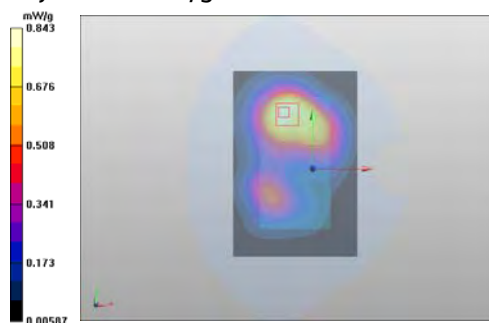
Electronics: DAE4 Sn1213; Calibrated: 2012-02-14

Phantom: SAM2; Type: SAM; Serial: TP-1570

Measurement SW: DASY52, Version 52.8 (1)

Fast SAR of Combined Scans: SAR(1 g) = 0.775 mW/g; SAR(10 g) = 0.485 mW/g

Maximum value of SAR (interpolated) = 0.843 mW/g



SAR Report

Appendix B.4 for FCC_RM-845_05

Applicant: Nokia Corporation

Type: RM-845

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APPENDIX C: DIELECTRIC PARAMETERS OF THE TISSUE SIMULANTS

Head tissue simulant dielectric parameters used in the measurements 782 – 2462 MHz:

f (MHz)	Date	Dielectric Parameters					
		-		Ch 23230 782.0 MHz		-	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
782	2012-07-18	-	-	40.3	0.93	-	-
	2012-07-19	-	-	40.4	0.93	-	-
	2012-07-23	-	-	39.9	0.92	-	-
	2012-08-11	-	-	40.8	0.93	-	-
	2012-09-04	-	-	40.3	0.93	-	-
f (MHz)	Date	Dielectric Parameters					
		Ch 1013 824.7 MHz		Ch 384 836.5 MHz		Ch 777 848.3 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
836	2012-07-19	41.8	0.89	41.7	0.90	41.7	0.91
	2012-08-11	40.3	0.87	40.2	0.87	40.1	0.88
f (MHz)	Date	Dielectric Parameters					
		Ch 128 824.2 MHz		Ch 190 836.6 MHz		Ch 251 848.8 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
836	2012-07-26	40.7	0.92	40.6	0.93	40.4	0.93
	2012-07-29	40.8	0.92	40.7	0.93	40.6	0.94
	2012-08-07	40.3	0.91	40.2	0.91	40.1	0.92
f (MHz)	Date	Dielectric Parameters					
		Ch 4132 826.4 MHz		Ch 4175 835.0 MHz		Ch 4233 846.6 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
835	2012-08-07	41.0	0.88	40.9	0.89	40.9	0.89
f (MHz)	Date	Dielectric Parameters					
		Ch 25 1851.3 MHz		Ch 600 1880.0 MHz		Ch 1175 1908.8 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
1880	2012-07-18	39.1	1.42	39.0	1.45	38.8	1.47
	2012-07-23	38.6	1.38	38.4	1.41	38.3	1.43
	2012-08-28	39.4	1.36	39.3	1.39	39.2	1.41
	2012-09-04	40.1	1.40	40.0	1.43	39.9	1.46

(Head parameter table continues)

(Head parameter table continues)

f (MHz)	Date	Dielectric Parameters					
		Ch 512 1850.2 MHz		Ch 661 1880.0 MHz		Ch 810 1909.8 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
1880	2012-07-27	39.7	1.42	39.5	1.44	39.4	1.47
	2012-07-30	39.4	1.43	39.3	1.45	39.2	1.48
f (MHz)	Date	Dielectric Parameters					
		Ch 9262 1852.4 MHz		Ch 9400 1880.0 MHz		Ch 9538 1907.6 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
1880	2012-07-21	38.8	1.41	38.6	1.43	38.5	1.46
	2012-07-23	38.6	1.38	38.4	1.41	38.3	1.43
f (MHz)	Date	Dielectric Parameters					
		Ch 1 2412.0 MHz		Ch 6 2437.0 MHz		Ch 11 2462.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
WLAN2450	2012-07-20	38.1	1.76	38.0	1.78	37.9	1.81
	2012-08-11	38.0	1.77	38.0	1.79	37.9	1.82

Head tissue simulant dielectric parameters used in the measurements 5180 – 5805 MHz:

f (MHz)	Date	Dielectric Parameters							
		Ch 36 5180.0 MHz		5210.0 MHz		Ch 44 5220.0 MHz		-	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
5210	2012-07-31	35.0	4.57	34.9	4.60	34.9	4.62	-	-
f (MHz)	Date	Dielectric Parameters							
		Ch 56 5280.0 MHz		5290.0 MHz		Ch 64 5320.0 MHz		-	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
5290	2012-07-31	34.8	4.67	34.8	4.68	34.8	4.72	-	-
	2012-09-04	35.0	4.60	35.0	4.61	34.9	4.65	-	-
f (MHz)	Date	Dielectric Parameters							
		Ch 100 5500.0 MHz		Ch 120 5600.0 MHz		Ch 124 5620.0 MHz		Ch 136 5680.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
5600	2012-08-01	34.6	4.89	34.5	5.00	34.4	5.02	34.4	5.09
	2012-08-02	34.5	4.73	34.3	4.84	34.3	4.85	34.2	4.92
f (MHz)	Date	Dielectric Parameters							
		Ch 153 5765.0 MHz		Ch 157 5785.0 MHz		Ch 161 5805.0 MHz		-	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
5785	2012-08-01	34.2	5.19	34.2	5.21	34.2	5.22	-	-
	2012-08-02	34.1	5.00	34.1	5.03	34.1	5.04	-	-

Body tissue simulant dielectric parameters used in the measurements 782 – 2462 MHz:

f (MHz)	Date	Dielectric Parameters					
		-		Ch 23230 782.0 MHz		-	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
782	2012-07-20	-	-	53.7	1.01	-	-
	2012-07-23	-	-	53.6	1.00	-	-
f (MHz)	Date	Dielectric Parameters					
		Ch 128 824.2 MHz		Ch 190 836.6 MHz		Ch 251 848.8 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
836	2012-07-21	56.0	1.00	55.9	1.00	55.9	1.01
	2012-07-23	56.0	0.96	55.9	0.96	55.9	0.97
f (MHz)	Date	Dielectric Parameters					
		Ch 128 824.2 MHz		Ch 190 836.6 MHz		Ch 251 848.8 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
836	2012-07-29	53.7	1.00	53.6	1.01	53.5	1.02
f (MHz)	Date	Dielectric Parameters					
		Ch 4132 826.4 MHz		Ch 4175 835.0 MHz		Ch 4233 846.6 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
835	2012-07-25	55.3	0.97	55.2	0.98	55.1	0.99
	2012-07-28	55.7	1.00	55.7	1.00	55.6	1.01
f (MHz)	Date	Dielectric Parameters					
		Ch 25 1851.3 MHz		Ch 600 1880.0 MHz		Ch 1175 1908.8 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
1880	2012-07-18	53.1	1.53	53.0	1.56	52.9	1.58
	2012-07-20	52.7	1.55	52.6	1.57	52.5	1.60
f (MHz)	Date	Dielectric Parameters					
		Ch 512 1850.2 MHz		Ch 661 1880.0 MHz		Ch 810 1909.8 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
1880	2012-07-27	52.2	1.55	52.1	1.58	52.0	1.61

(Body parameter table continues)

(Body parameter table continues)

f (MHz)	Date	Dielectric Parameters					
		Ch 9262 1852.4 MHz		Ch 9400 1880.0 MHz		Ch 9538 1907.6 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
1880	2012-07-20	52.7	1.55	52.6	1.57	52.5	1.60
	2012-07-30	51.9	1.56	51.8	1.58	51.7	1.60
f (MHz)	Date	Dielectric Parameters					
		Ch 1 2412.0 MHz		Ch 6 2437.0 MHz		Ch 11 2462.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
2437	2012-07-20	51.3	1.91	51.2	1.93	51.1	1.96
	2012-07-23	51.3	1.90	51.3	1.93	51.1	1.96

Body tissue simulant dielectric parameters used in the measurements 5180 – 5805 MHz:

f (MHz)	Date	Dielectric Parameters							
		Ch 36 5180.0 MHz		5210.0 MHz		Ch 44 5220.0 MHz		-	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
5210	2012-08-02	48.8	5.43	48.7	5.47	48.7	5.49	-	-
f (MHz)	Date	Dielectric Parameters							
		Ch 56 5280.0 MHz		5290.0 MHz		Ch 64 5320.0 MHz		-	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
5290	2012-08-02	48.6	5.57	48.6	5.58	48.5	5.62	-	-
f (MHz)	Date	Dielectric Parameters							
		Ch 100 5500.0 MHz		Ch 120 5600.0 MHz		Ch 124 5620.0 MHz		Ch 136 5680.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
5600	2012-08-03	48.0	5.84	47.8	5.98	47.8	6.01	47.7	6.10
	2012-08-06	48.5	5.84	48.3	5.98	48.3	6.01	48.2	6.09
f (MHz)	Date	Dielectric Parameters							
		Ch 153 5765.0 MHz		Ch 157 5785.0 MHz		Ch 161 5805.0 MHz		-	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
5785	2012-08-03	47.5	6.22	47.5	6.25	47.5	6.27	-	-
	2012-08-05	48.6	6.22	48.6	6.25	48.5	6.28	-	-

APPENDIX D: CONDUCTED AVERAGE POWER MEASUREMENTS FOR WCDMA AND HSUPA

Test Laboratory: TCC Nokia

Type: RM-845; Serial: 352423/05/003903/9, HW: 0209, SW: 1525.0003.8422.9710.12271

D.1. WCDMA850 Test results

Average power

Ch / f(MHz)	P [dBm]
4133 / 826.6	22.9
4175 / 835.0	23.1
4232 / 846.4	23.0

D.2. HSUPA850 Test results

Average power

Ch / f(MHz)	P [dBm]				
	Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
4133 / 826.6	21.7	19.6	20.6	19.4	21.5
4175 / 835.0	21.7	19.7	20.8	19.9	21.9
4232 / 846.4	21.7	19.7	20.6	19.7	21.8

Note: In HSUPA operation, the output power is reduced relative to the tuning target power for WCDMA. This device runs a single HSUPA power control routine: MPR. In addition, to ensure linearity of the PA output, a further 1.0dB power reduction for all Subtest modes is implemented. As a result, the MPR for each of the Subtest modes is as follows:

Maximum Power Reduction (MPR)				
Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
1.0dB	3.0dB	2.0dB	3.0dB	1.0dB

Test Laboratory: TCC Nokia

Type: RM-845; Serial: 352423/05/003903/9, HW: 0209, SW: 1525.0003.8422.9710.12271

D.3. WCDMA1900 Test results

Average power

Ch / f(MHz)	P [dBm]
9263 / 1852.6	22.8
9400 / 1880.0	22.9
9537 / 1907.4	22.7

D.4. HSUPA1900 Test results

Average power

Ch / f(MHz)	P [dBm]				
	Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
9263 / 1852.6	21.5	19.5	20.5	19.6	21.6
9400 / 1880.0	21.7	19.5	20.4	19.6	21.8
9537 / 1907.4	21.4	19.6	20.3	19.5	21.6

Note: In HSUPA operation, the output power is reduced relative to the tuning target power for WCDMA. This device runs a single HSUPA power control routine: MPR. In addition, to ensure linearity of the PA output, a further 1.0dB power reduction for all Subtest modes is implemented. As a result, the MPR for each of the Subtest modes is as follows:

Maximum Power Reduction (MPR)				
Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
1.0dB	3.0dB	2.0dB	3.0dB	1.0dB

APPENDIX E: RELEVANT PAGES FROM PROBE CALIBRATION REPORT(S)

6044

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



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

Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 108**

The Swiss Accreditation Service is one of the signatories to the EA
 Multilateral Agreement for the recognition of calibration certificates

Client **Nokia SD**

Certificate No: **ET3-1399_Feb12**

CALIBRATION CERTIFICATE

Object

ET3DV6R - SN:1399

Calibration procedure(s)

QA CAL-01.v8, QA CAL-23.v4, QA CAL-25.v4
Calibration procedure for dosimetric E-field probes

Calibration date:

February 10, 2012

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	31-Mar-11 (No. 217-01372)	Apr-12
Power sensor E4412A	MY41498087	31-Mar-11 (No. 217-01372)	Apr-12
Reference 3 dB Attenuator	SN: S5054 (3c)	29-Mar-11 (No. 217-01369)	Apr-12
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-11 (No. 217-01367)	Apr-12
Reference 30 dB Attenuator	SN: S5129 (30b)	29-Mar-11 (No. 217-01370)	Apr-12
Reference Probe ES3DV2	SN: 3013	29-Dec-11 (No. ES3-3013_Dec11)	Dec-12
DAE4	SN: 654	3-May-11 (No. DAE4-654_May11)	May-12
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-11)	In house check: Apr-13
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-11)	In house check: Oct-12

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	
Issued: February 14, 2012			
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			

DASY/EASY - Parameters of Probe: ET3DV6R - SN:1399

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
750	41.9	0.89	6.05	6.05	6.05	0.31	3.00	± 12.0 %
835	41.5	0.90	5.82	5.82	5.82	0.42	2.34	± 12.0 %
1810	40.0	1.40	4.92	4.92	4.92	0.80	2.24	± 12.0 %
1950	40.0	1.40	4.69	4.69	4.69	0.80	2.14	± 12.0 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

DASY/EASY - Parameters of Probe: ET3DV6R - SN:1399

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
750	55.5	0.96	5.93	5.93	5.93	0.31	3.00	± 12.0 %
835	55.2	0.97	5.83	5.83	5.83	0.50	2.27	± 12.0 %
1810	53.3	1.52	4.47	4.47	4.47	0.80	2.45	± 12.0 %
1950	53.3	1.52	4.49	4.49	4.49	0.80	2.24	± 12.0 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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



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 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **Nokia SD**

Certificate No: **ET3-1739_Sep11**

CALIBRATION CERTIFICATE

Object **ET3DV6 - SN:1739**

Calibration procedure(s) **QA CAL-01.v8, QA CAL-23.v4, QA CAL-25.v4**
Calibration procedure for dosimetric E-field probes

Calibration date: **September 22, 2011**

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

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	31-Mar-11 (No. 217-01372)	Apr-12
Power sensor E4412A	MY41498087	31-Mar-11 (No. 217-01372)	Apr-12
Reference 3 dB Attenuator	SN: S5054 (3c)	29-Mar-11 (No. 217-01369)	Apr-12
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-11 (No. 217-01367)	Apr-12
Reference 30 dB Attenuator	SN: S5129 (30b)	29-Mar-11 (No. 217-01370)	Apr-12
Reference Probe ES3DV2	SN: 3013	29-Dec-10 (No. ES3-3013_Dec10)	Dec-11
DAE4	SN: 654	3-May-11 (No. DAE4-654_May11)	May-12
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-10)	In house check: Oct-11

Calibrated by:	Name	Function	Signature
	Jeton Kastrati	Laboratory Technician	
Approved by:	Name	Function	Signature
	Katja Pokovic	Technical Manager	

Issued: September 23, 2011

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

DASY/EASY - Parameters of Probe: ET3DV6 - SN:1739

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Uct. (k=2)
750	41.9	0.89	6.53	6.53	6.53	0.66	1.99	± 12.0 %
835	41.5	0.90	6.29	6.29	6.29	0.71	1.83	± 12.0 %
1810	40.0	1.40	5.07	5.07	5.07	0.54	2.37	± 12.0 %
1950	40.0	1.40	4.85	4.85	4.85	0.53	2.44	± 12.0 %
2450	39.2	1.80	4.29	4.29	4.29	0.75	1.76	± 12.0 %

^c Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

DASY/EASY - Parameters of Probe: ET3DV6- SN:1739

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
750	55.5	0.96	6.27	6.27	6.27	0.73	1.89	± 12.0 %
835	55.2	0.97	6.19	6.19	6.19	0.71	1.88	± 12.0 %
1810	53.3	1.52	4.54	4.54	4.54	0.55	2.81	± 12.0 %
1950	53.3	1.52	4.54	4.54	4.54	0.55	2.70	± 12.0 %
2450	52.7	1.95	3.91	3.91	3.91	0.76	1.46	± 12.0 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **Nokia Salo TCC**

Certificate No: **ES3-3131_Sep11**

CALIBRATION CERTIFICATE

Object **ES3DV3 - SN:3131**

Calibration procedure(s) **QA CAL-01.v8, QA CAL-23.v4, QA CAL-25.v4
Calibration procedure for dosimetric E-field probes**

Calibration date: **September 14, 2011**

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	31-Mar-11 (No. 217-01372)	Apr-12
Power sensor E4412A	MY41498087	31-Mar-11 (No. 217-01372)	Apr-12
Reference 3 dB Attenuator	SN: S5054 (3c)	29-Mar-11 (No. 217-01369)	Apr-12
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-11 (No. 217-01367)	Apr-12
Reference 30 dB Attenuator	SN: S5129 (30b)	29-Mar-11 (No. 217-01370)	Apr-12
Reference Probe ES3DV2	SN: 3013	29-Dec-10 (No. ES3-3013_Dec10)	Dec-11
DAE4	SN: 654	3-May-11 (No. DAE4-654_May11)	May-12
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-10)	In house check: Oct-11

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: September 15, 2011

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3131

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
750	41.9	0.89	6.10	6.10	6.10	0.80	1.00	± 12.0 %
835	41.5	0.90	5.88	5.88	5.88	0.80	1.31	± 12.0 %
1750	40.1	1.37	5.14	5.14	5.14	0.80	1.25	± 12.0 %
1900	40.0	1.40	4.92	4.92	4.92	0.80	1.25	± 12.0 %
2450	39.2	1.80	4.32	4.32	4.32	0.79	1.25	± 12.0 %
2600	39.0	1.96	4.21	4.21	4.21	0.76	1.30	± 12.0 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

DASY/EASY - Parameters of Probe: ES3DV3- SN:3131

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
750	55.5	0.96	5.97	5.97	5.97	0.80	1.00	± 12.0 %
835	55.2	0.97	5.92	5.92	5.92	0.80	1.34	± 12.0 %
1750	53.4	1.49	4.64	4.64	4.64	0.80	1.35	± 12.0 %
1900	53.3	1.52	4.44	4.44	4.44	0.80	1.28	± 12.0 %
2450	52.7	1.95	4.07	4.07	4.07	0.80	1.17	± 12.0 %
2600	52.5	2.16	3.97	3.97	3.97	0.80	1.00	± 12.0 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.



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Accreditation No.: **SCS 108**

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Multilateral Agreement for the recognition of calibration certificates

Client **Nokia Salo TCC**

Certificate No: **ES3-3165_Feb12**

CALIBRATION CERTIFICATE

Object **ES3DV3 - SN:3165**

Calibration procedure(s) **QA CAL-01.v8, QA CAL-23.v4, QA CAL-25.v4**
Calibration procedure for dosimetric E-field probes

Calibration date: **February 21, 2012**

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	31-Mar-11 (No. 217-01372)	Apr-12
Power sensor E4412A	MY41498087	31-Mar-11 (No. 217-01372)	Apr-12
Reference 3 dB Attenuator	SN: S5054 (3c)	29-Mar-11 (No. 217-01369)	Apr-12
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-11 (No. 217-01367)	Apr-12
Reference 30 dB Attenuator	SN: S5129 (30b)	29-Mar-11 (No. 217-01370)	Apr-12
Reference Probe ES3DV2	SN: 3013	29-Dec-11 (No. ES3-3013_Dec11)	Dec-12
DAE4	SN: 654	3-May-11 (No. DAE4-654_May11)	May-12
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-11)	In house check: Apr-13
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-11)	In house check: Oct-12

	Name	Function	Signature
Calibrated by:	Claudio Leubler	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	
			Issued: February 23, 2012
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DASY/EASY - Parameters of Probe: ES3DV3 - SN:3165

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
750	41.9	0.89	6.13	6.13	6.13	0.29	1.78	± 12.0 %
835	41.5	0.90	5.88	5.88	5.88	0.21	2.26	± 12.0 %
1750	40.1	1.37	5.51	5.51	5.51	0.49	1.46	± 12.0 %
1900	40.0	1.40	5.24	5.24	5.24	0.54	1.44	± 12.0 %
2450	39.2	1.80	4.37	4.37	4.37	0.70	1.37	± 12.0 %
2600	39.0	1.96	4.20	4.20	4.20	0.80	1.28	± 12.0 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3165

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
750	55.5	0.96	6.06	6.06	6.06	0.37	1.66	± 12.0 %
835	55.2	0.97	5.97	5.97	5.97	0.59	1.30	± 12.0 %
1750	53.4	1.49	4.84	4.84	4.84	0.52	1.61	± 12.0 %
1900	53.3	1.52	4.57	4.57	4.57	0.42	1.93	± 12.0 %
2450	52.7	1.95	4.14	4.14	4.14	0.73	1.08	± 12.0 %
2600	52.5	2.16	3.96	3.96	3.96	0.80	1.03	± 12.0 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.



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Accreditation No.: **SCS 108**

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 Multilateral Agreement for the recognition of calibration certificates

Client **Nokia Salo TCC**

Certificate No: **EX3-3573_Feb12**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3573**

Calibration procedure(s) **QA CAL-01.v8, QA CAL-14.v3, QA CAL-23.v4, QA CAL-25.v4**
Calibration procedure for dosimetric E-field probes

Calibration date: **February 23, 2012**

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

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	31-Mar-11 (No. 217-01372)	Apr-12
Power sensor E4412A	MY41498087	31-Mar-11 (No. 217-01372)	Apr-12
Reference 3 dB Attenuator	SN: S5054 (3c)	29-Mar-11 (No. 217-01369)	Apr-12
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-11 (No. 217-01367)	Apr-12
Reference 30 dB Attenuator	SN: S5129 (30b)	29-Mar-11 (No. 217-01370)	Apr-12
Reference Probe ES3DV2	SN: 3013	29-Dec-11 (No. ES3-3013_Dec11)	Dec-12
DAE4	SN: 654	3-May-11 (No. DAE4-654_May11)	May-12
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-11)	In house check: Apr-13
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-11)	In house check: Oct-12

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	
Issued: February 23, 2012			
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3573

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
750	41.9	0.89	8.71	8.71	8.71	0.20	1.24	± 12.0 %
835	41.5	0.90	8.33	8.33	8.33	0.14	1.71	± 12.0 %
1750	40.1	1.37	7.67	7.67	7.67	0.75	0.59	± 12.0 %
1900	40.0	1.40	7.43	7.43	7.43	0.80	0.59	± 12.0 %
2450	39.2	1.80	6.52	6.52	6.52	0.38	0.93	± 12.0 %
2600	39.0	1.96	6.30	6.30	6.30	0.37	0.89	± 12.0 %
5200	36.0	4.66	4.63	4.63	4.63	0.39	1.80	± 13.1 %
5300	35.9	4.76	4.46	4.46	4.46	0.35	1.80	± 13.1 %
5500	35.6	4.96	4.23	4.23	4.23	0.40	1.80	± 13.1 %
5600	35.5	5.07	3.96	3.96	3.96	0.45	1.80	± 13.1 %
5800	35.3	5.27	3.99	3.99	3.99	0.50	1.80	± 13.1 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3573

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
750	55.5	0.96	8.71	8.71	8.71	0.44	0.87	± 12.0 %
835	55.2	0.97	8.54	8.54	8.54	0.35	0.94	± 12.0 %
1750	53.4	1.49	7.07	7.07	7.07	0.38	0.93	± 12.0 %
1900	53.3	1.52	6.69	6.69	6.69	0.52	0.77	± 12.0 %
2450	52.7	1.95	6.45	6.45	6.45	0.80	0.57	± 12.0 %
2600	52.5	2.16	6.24	6.24	6.24	0.80	0.50	± 12.0 %
5200	49.0	5.30	3.99	3.99	3.99	0.50	1.90	± 13.1 %
5300	48.9	5.42	3.84	3.84	3.84	0.50	1.90	± 13.1 %
5500	48.6	5.65	3.64	3.64	3.64	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.05	3.05	3.05	0.75	1.90	± 13.1 %
5800	48.2	6.00	3.71	3.71	3.71	0.55	1.90	± 13.1 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 108**

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 Multilateral Agreement for the recognition of calibration certificates

Client **Nokia Salo TCC**

Certificate No: **EX3-3834_Feb12**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3834**

Calibration procedure(s) **QA CAL-01.v8, QA CAL-14.v3, QA CAL-23.v4, QA CAL-25.v4**
Calibration procedure for dosimetric E-field probes

Calibration date: **February 7, 2012**

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	31-Mar-11 (No. 217-01372)	Apr-12
Power sensor E4412A	MY41498087	31-Mar-11 (No. 217-01372)	Apr-12
Reference 3 dB Attenuator	SN: S5054 (3c)	29-Mar-11 (No. 217-01369)	Apr-12
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-11 (No. 217-01367)	Apr-12
Reference 30 dB Attenuator	SN: S5129 (30b)	29-Mar-11 (No. 217-01370)	Apr-12
Reference Probe ES3DV2	SN: 3013	29-Dec-11 (No. ES3-3013_Dec11)	Dec-12
DAE4	SN: 654	3-May-11 (No. DAE4-654_May11)	May-12
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-11)	In house check: Apr-13
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-11)	In house check: Oct-12

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	
Issued: February 7, 2012			
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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3834

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
750	41.9	0.89	9.17	9.17	9.17	0.38	0.90	± 12.0 %
835	41.5	0.90	8.69	8.69	8.69	0.34	0.97	± 12.0 %
900	41.5	0.97	8.59	8.59	8.59	0.23	1.26	± 12.0 %
1750	40.1	1.37	7.84	7.84	7.84	0.51	0.70	± 12.0 %
1900	40.0	1.40	7.61	7.61	7.61	0.80	0.58	± 12.0 %
2450	39.2	1.80	6.82	6.82	6.82	0.45	0.78	± 12.0 %
2600	39.0	1.96	6.65	6.65	6.65	0.48	0.77	± 12.0 %
5200	36.0	4.66	4.81	4.81	4.81	0.40	1.80	± 13.1 %
5300	35.9	4.76	4.57	4.57	4.57	0.40	1.80	± 13.1 %
5500	35.6	4.96	4.60	4.60	4.60	0.38	1.80	± 13.1 %
5600	35.5	5.07	4.37	4.37	4.37	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.14	4.14	4.14	0.50	1.80	± 13.1 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3834

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
750	55.5	0.96	9.03	9.03	9.03	0.26	1.22	± 12.0 %
835	55.2	0.97	8.75	8.75	8.75	0.21	1.58	± 12.0 %
900	55.0	1.05	8.72	8.72	8.72	0.46	0.83	± 12.0 %
1750	53.4	1.49	7.54	7.54	7.54	0.80	0.62	± 12.0 %
1900	53.3	1.52	7.17	7.17	7.17	0.52	0.77	± 12.0 %
2450	52.7	1.95	6.93	6.93	6.93	0.80	0.50	± 12.0 %
2600	52.5	2.16	6.65	6.65	6.65	0.80	0.50	± 12.0 %
5200	49.0	5.30	3.99	3.99	3.99	0.55	1.90	± 13.1 %
5300	48.9	5.42	3.75	3.75	3.75	0.60	1.90	± 13.1 %
5500	48.6	5.65	3.50	3.50	3.50	0.58	1.90	± 13.1 %
5600	48.5	5.77	3.28	3.28	3.28	0.60	1.90	± 13.1 %
5800	48.2	6.00	3.78	3.78	3.78	0.58	1.90	± 13.1 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.