RF EXPOSURE EVALUATION

SPECIFIC ABSORPTION RATE

SAR TEST REPORT

FOR

MOTION COMPUTING INC.

LE1700 TABLET PC

WITH

ATHEROS WM7519ABG 802.11ABG WLAN

AND

USI UB2-2111-S BLUETOOTH

IDENTIFIER(S)	FCC ID: Q3QAWM7519ABG	IC: 4587A-A7519ABG
Test Standard(s) and Procedure(s)	FCC OET Bulletin 65, Supplement C (01-01)	
	FCC OET SAR Measurement Procedures for 802.11a/b/g Transmitters	
	FCC OET SAR Measurement Requirements for 3 - 6 GHz	
	Industry Canada RSS-102 Issue 2	

Test Report Serial No.

111406Q3Q-T788-S15W

Test Report Revision No.

Revision 1.0 (Initial Release)

Test Lab and Location

Celltech Compliance Testing & Engineering Lab
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Test Report Prepared By:	Test Report Reviewed By:
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DECLARATION OF COMPLIANCE
SAR RF EXPOSURE EVALUATION

Test Lab and Location

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Company Information

MOTION COMPUTING INCORPORATED
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FCC IDENTIFIER:	**Q3QAWM7519ABG**
IC IDENTIFIER:	**4587A-A7519ABG**
Rule Part(s):	**FCC 47 CFR §2.1093; Health Canada Safety Code 6**
Test Procedure(s):	**FCC OET Bulletin 65, Supplement C (Edition 01-01); Industry Canada RSS-102 Issue 2** **FCC OET SAR Measurement Procedures for 802.11a/b/g Transmitters** **FCC OET SAR Measurement Requirements for 3 - 6 GHz**
FCC Device Classification(s):	**Digital Transmission System (DTS) - §15C** **Unlicensed National Information Infrastructure TX (NII) - §15E**
IC Device Classification:	**Low Power License-Exempt Radiocommunication Device (RSS-210 Issue 6)**
Device Model/Description:	**LE1700 Tablet PC**
Internal Transmitter Type:	**Atheros WM7519ABG 802.11abg WLAN**
Co-located Transmitter(s):	**USI UB2-2111-S Bluetooth (co-transmit)**
LCD User Orientation(s):	**0 Degrees Landscape & -90 Degrees Portrait**
Mode(s) of Operation:	**802.11b: DSSS (Direct Sequence Spread Spectrum)** **802.11a/g: OFDM (Orthogonal Frequency Division Multiplexing)** **Bluetooth: FHSS (Frequency Hopping Spread Spectrum)**
Transmit Frequency Range(s):	**2412 - 2462 MHz 802.11b/g (ISM Band)** **5180 - 5240 MHz 802.11a (UNII-1)** **5260 - 5320 MHz 802.11a (UNII-2)** **5500 - 5700 MHz 802.11a (UNII Mid-Band)** **5745 - 5825 MHz 802.11a (UNII-3)** **2402 - 2480 MHz (Bluetooth)**
Max. RF Output Power Tested:	**17.0 dBm (50 mW) Average Conducted (ISM: 802.11b - 2412 MHz - 1 Mbps)** **15.5 dBm (35 mW) Average Conducted (UNII-1 - 5200 MHz - 6 Mbps)** **14.0 dBm (25 mW) Average Conducted (UNII-2 - 5260 MHz - 6 Mbps)** **12.2 dBm (17 mW) Average Conducted (UNII Mid-Band - 5700 MHz - 6 Mbps)** **13.0 dBm (20 mW) Average Conducted (UNII-3 - 5825 MHz - 6 Mbps)** **-0.97 dBm (0.8 mW) - Bluetooth Conducted Spec.**
802.11abg Date Rates:	**802.11b: 1 / 2 / 5.5 / 11 Mbps; 802.11a/g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps**
Battery Type(s) Tested:	**Lithium-ion 14.8 V (P/N: BATEDX20L4) - Standard Battery** **Lithium-ion 14.8 V (P/N: BATEDX20L8) - Extended Battery**
Antenna Type(s) Tested:	**802.11abg: Internal Switched Diversity (MAIN & AUX); Bluetooth: Internal**
Max. SAR Level(s) Evaluated: **(With 75% Duty Factor Scaling)**	**Body: 1.02 W/kg (1g average) ISM: 802.11b** **Body: 1.12 W/kg (1g average) UNII-1; Body: 1.18 W/kg (1g average) UNII-2** **Body: 1.22 W/kg (1g average) UNII Mid-Band; Body: 1.16 W/kg (1g average) UNII-3**

Celltech Labs Inc. declares under its sole responsibility that this wireless portable device was compliant with the Specific Absorption Rate (SAR) RF exposure requirements specified in FCC 47 CFR §2.1093 and Health Canada's Safety Code 6. The device was tested in accordance with the measurement standards and procedures specified in FCC OET Bulletin 65, Supplement C (Edition 01-01) and Industry Canada RSS-102 Issue 2 for the General Population / Uncontrolled Exposure environment. All measurements were performed in accordance with the SAR system manufacturer recommendations.

I attest to the accuracy of data. All measurements were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

This test report shall not be reproduced partially, or in full, without the prior written approval of Celltech Labs Inc.
The results and statements contained in this report pertain only to the device(s) evaluated.

Test Report Approved By:
Sean Johnston
SAR Lab Manager
Celltech Labs Inc.

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1.0 INTRODUCTION

This measurement report demonstrates that MOTION COMPUTING INC. Model: LE1700 Tablet PC FCC ID: Q3QAWM7519ABG incorporating the Atheros WM7519ABG 802.11abg WLAN Mini-PCI Card and co-located USI UB2-2111-S Bluetooth complies with the SAR (Specific Absorption Rate) RF exposure requirements specified in FCC 47 CFR §2.1093 (see reference [1]) and Health Canada's Safety Code 6 (see reference [2]) for the General Population / Uncontrolled Exposure environment. The test procedures described in FCC OET Bulletin 65, Supplement C, Edition 01-01 (see reference [3]) and IC RSS-102 Issue 2 (see reference [4]) were employed. A description of the product and operating configuration, detailed summary of the test results, methodology and procedures used in the evaluation, equipment used, and the various provisions of the rules are included within this test report.

2.0 DESCRIPTION of DEVICE UNDER TEST (DUT)

Rule Part(s)	FCC 47 CFR §2.1093			Health Canada Safety Code 6		
Test Procedure(s)	FCC OET Bulletin 65, Supplement C (01-01)			Industry Canada RSS-102 Issue 2		
	FCC OET SAR Measurement Procedures for 802.11a/b/g Transmitters					
	FCC OET SAR Measurement Requirements for 3 - 6 GHz					
FCC Device Classification(s)	Digital Transmission System (DTS)			§15C	2412 - 2462 MHz	5745 - 5825 MHz
	Unlicensed National Information Infrastructure TX (NII)			§15E	5180 - 5320 MHz	5500 - 5700 MHz
IC Device Classification	Low Power License-Exempt Radiocommunication Device: Category I Equipment					RSS-210 Issue 6
RF Exposure Category	Uncontrolled Environment / General Population					
Device Description	Tablet PC					
Internal Transmitter Type	Dominant:	Atheros WM7519ABG 802.11abg WLAN Mini-PCI Card				
Co-located Transmitter(s)	Non-Dominant:	USI UB2-2111-S Bluetooth (Simultaneous Transmission)				
LCD Display Orientation(s)	0 Degrees Landscape			-90 Degrees Portrait		
FCC IDENTIFIER	Q3QAWM7519ABG		**IC IDENTIFIER**	4587A-A7519ABG		
Device Model(s)	LE1700					
Test Sample Serial No.(s)	P2DVT1 80010001 029			Identical Prototype		
Mode(s) of Operation	802.11a/g	OFDM		Orthogonal Frequency Division Multiplexing		
	802.11b	DSSS		Direct Sequence Spread Spectrum		
	Bluetooth	FHSS		Frequency Hopping Spread Spectrum		
802.11abg Data Rates	802.11a/g	6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps		802.11b	1 / 2 / 5.5 / 11 Mbps	
Transmit Frequency Range(s)	5180 - 5240 MHz	802.11a	UNII-1	5260 - 5320 MHz	802.11a	UNII-2
	5500 - 5700 MHz	802.11a	UNII Mid-Band	5745 - 5825 MHz	802.11a	UNII-3
	2412 - 2462 MHz	802.11b/g	ISM Band	2402 - 2480 MHz	Bluetooth	

Max. RF Output Power Levels Measured	**Transmit Mode**		**Frequency (MHz)**	**Data Rate (Mbps)**	**Average Conducted Power**	
					dBm	**mW**
	802.11b	ISM	2412	1	17.0	50
	802.11g	ISM	2412	6	16.7	47
	802.11a	UNII-1	5200	6	15.5	35
	802.11a	UNII-2	5260	6	14.0	25
	802.11a	UNII Mid-Band	5700	6	12.2	17
	802.11a	UNII-3	5825	6	13.0	20
	Higher data rates were also measured and the power levels were not 0.25 dB > power levels at the lowest data rate					
	The average conducted power in Turbo mode was less than ¼ dB higher than the power at required test channels					

Antenna Type(s) Tested	802.11abg	Switched Diversity	MAIN	Left Side Edge of LCD Display
			AUX	Bottom Side Edge of LCD Display
	Bluetooth	Internal		
Power Source(s) Tested	Lithium-ion	Standard Battery	14.8 V	P/N: BATEDX20L4
	Lithium-ion	Extended Battery	14.8 V	P/N: BATEDX20L8

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3.0 SAR MEASUREMENT SYSTEM

Celltech Labs Inc. SAR measurement facility utilizes the Dosimetric Assessment System (DASY™) manufactured by Schmid & Partner Engineering AG (SPEAG™) of Zurich, Switzerland. The DASY4 measurement system is comprised of the measurement server, robot controller, computer, near-field probe, probe alignment sensor, specific anthropomorphic mannequin (SAM) phantom, and various planar phantoms for brain and/or body SAR evaluations. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF). A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The Staubli robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the DASY4 measurement server. The DAE4 utilizes a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16-bit AD-converter and a command decoder and control logic unit. Transmission to the DASY4 measurement server is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe-mounting device includes two different sensor systems for frontal and sidewise probe contacts. The sensor systems are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer.

DASY4 SAR Measurement System & planar phantom

DASY4 SAR Measurement System with planar phantom and validation dipole

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4.0 OUTPUT POWER MEASUREMENTS

Motion Tablet PC with Atheros WM7519A 802.11a/b/g Card

Mode	Freq. (GHz)	Channel	Data Rate	Power Setting	Average Cond. Power	
			mbps		dBm	Watts
802.11b	2.412	1	1	17	17	0.050
	2.437	6	1	17	16.5	0.045
	2.462	11	1	17	16.5	0.045
	2.412	1	2	17	17.0	0.050
	2.412	1	5.5	17	17.1	0.051
	2.412	1	11	17	17.1	0.051
802.11g	2.412	1	6	17	16.7	0.047
	2.437	6	6	17	16.7	0.047
	2.462	11	6	17	16.6	0.046
802.11a	5.18	36	6	16	15.2	0.033
	5.20	40	6	16	15.5	0.035
	5.22	44	6	15.5	14.6	0.029
	5.24	48	6	15.5	14.8	0.030
	5.26	52	6	15	14	0.025
	5.28	56	6	14.5	13.5	0.022
	5.30	60	6	14	12.6	0.018
	5.32	64	6	13	11.7	0.015
	5.50	100	6	9.5	9.2	0.008
	5.52	104	6	10	9.8	0.010
	5.54	108	6	10	9.7	0.009
	5.56	112	6	10.5	10.3	0.011
	5.58	116	6	10.5	10.6	0.011
	5.60	120	6	10.5	10.8	0.012
	5.62	124	6	11	11.3	0.013
	5.64	128	6	12.5	12	0.016
	5.66	132	6	12.5	12	0.016
	5.68	136	6	12.5	11.8	0.015
	5.70	140	6	13	12.2	0.017
	5.745	149	6	12.5	12.0	0.016
	5.765	153	6	12.5	12.5	0.018
	5.785	157	6	12.5	12.9	0.019
	5.805	161	6	12.5	12.8	0.019
	5.825	165	6	12.5	13.0	0.020

Mode	Freq. (GHz)	Channel	Data Rate	Power Setting	Average Cond. Power	
			mbps		dBm	Watts
802.11a	5.20	40	9	16	15.2	0.033
	5.20	40	12	16	15.3	0.034
	5.20	40	18	16	15.2	0.033
	5.20	40	24	16	15.3	0.034
	5.20	40	36	16	15.3	0.034
	5.20	40	48	16	15.3	0.034
	5.20	40	54	16	15.4	0.035
	5.26	52	9	15	14	0.025
	5.26	52	12	15	14	0.025
	5.26	52	18	15	13.9	0.025
	5.26	52	24	15	14	0.025
	5.26	52	36	15	14	0.025
	5.26	52	48	15	13.9	0.025
	5.26	52	54	15	13.9	0.025
	5.70	140	9	13	12	0.016
	5.70	140	12	13	12	0.016
	5.70	140	18	13	12.1	0.016
	5.70	140	24	13	12.1	0.016
	5.70	140	36	13	12.1	0.016
	5.70	140	48	13	12.1	0.016
	5.70	140	54	13	12	0.016
	5.825	165	9	12.5	13.1	0.020
	5.825	165	12	12.5	13.1	0.020
	5.825	165	18	12.5	13	0.020
	5.825	165	24	12.5	13	0.020
	5.825	165	36	12.5	13.1	0.020
	5.825	165	48	12.5	13	0.020
	5.825	165	54	12.5	12.9	0.019

Average conducted output power measurements were made in the test frequency channel configurations specified in FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" (see reference [7]).

- √ = 'default test channels"
- * = Possible 802.11a channels with maximum average output > the "default test channels"
- ∇ = possible 802.11g channels with maximum average output ¼ dB ≥ the "default test channels"
- * = when the 1-g averaged SAR for the maximum output channel is < 0.8 W/kg, testing of other channels in the "default test channels" or "required test channels" configuration is optional.

For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than ¼ dB higher than those measured at the lowest data rate.

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5.0 MEASUREMENT SUMMARY

BODY SAR MEASUREMENT RESULTS (802.11b: 2.4 GHz)

Transmit Mode	Test Mode	Freq.	Chan.	Data Rate	Battery Type	Antenna Type	DUT Position To Planar Phantom	DUT Spacing to Planar Phantom	Cond. Power Before Test	SAR Drift During Test	Measured SAR 1g 100% Duty Factor	Scaled SAR 1g 75% Duty Factor [7]
		MHz		Mbps				cm	dBm	dB	W/kg	W/kg
802.11b	DSSS	2412	1	1	Standard	MAIN	MAIN Antenna Edge of Tablet	0.0	17.0	0.137	1.27	0.953
802.11b	DSSS	2412	1	1	Standard	AUX	AUX Antenna Edge of Tablet	0.0	17.0	0.199	0.508	0.381
802.11b	DSSS	2437	6	1	Standard	MAIN [3]	MAIN Antenna Edge of Tablet	0.0	16.5	-0.0760	1.23	0.923
802.11b	DSSS	2462	11	1	Standard	MAIN [3]	MAIN Antenna Edge of Tablet	0.0	16.5	-0.152	**1.36**	**1.02**
802.11b	DSSS	2412	1	1	Standard	MAIN	Bottom Side of Tablet	0.0	17.0	-0.0930	0.580	0.435
802.11b	DSSS	2412	1	1	Standard	AUX	Bottom Side of Tablet	0.0	17.0	-0.0240	0.0250	0.0188
802.11b	DSSS	2462	11	1	Standard	MAIN	MAIN Antenna Edge of Tablet	0.0	16.5	0.161	1.30	0.975
Bluetooth co-transmit [5]	Modulated Fixed Freq.	2441	39	-		Internal			-0.97			
802.11b	DSSS	2462	11	1	Extended [6]	MAIN	MAIN Antenna Edge of Tablet	0.0	16.5	0.0110	1.23	0.923
Bluetooth co-transmit	Modulated Fixed Freq.	2441	39	-		Internal			-0.97			

ANSI / IEEE C95.1 1999 - SAFETY LIMIT	BODY: 1.6 W/kg (averaged over 1 gram)	Spatial Peak: Uncontrolled Exposure / General Population

Test Date(s)	November 27, 2006				Relative Humidity	33	%
Measured Fluid Type	2450 MHz Body				Atmospheric Pressure	101.2	kPa
Dielectric Constant ε	IEEE Target		Measured	Deviation	Ambient Temperature	25.0	°C
	52.7	±5%	50.5	-4.2%	Fluid Temperature	23.7	°C
Conductivity σ (mho/m)	IEEE Target		Measured	Deviation	Fluid Depth	≥ 15	cm
	1.95	±5%	1.98	+1.5%	ρ (Kg/m^3)	1000	

Note(s)		
	1.	The measurement results were obtained with the DUT tested in the conditions described in this report. Detailed measurement data and plots showing the maximum SAR location of the DUT are reported in Appendix A.
	2.	The procedures described in FCC OET "SAR Measurement Requirements for 802.11a/b/g Transmitters" were implemented (see reference [7]).
	3.	If the SAR levels measured at the highest output channel were ≥ 3 dB below the SAR limit, SAR evaluation for other remaining selected channels was optional (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
	4.	For transmitting diversity antennas, each transmitting antenna should be tested independently, one at a time, on the maximum average output channel in each frequency band and BW configuration. When the 1-g SAR values for all antenna are less than 1.2 W/kg (75% of limit), the remaining "required test channels" should be tested in each frequency band using the antenna with the highest SAR measured on the maximum output channel, otherwise test both antennas (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
	5.	Higher data rates and 802.11g mode were not evaluated based on the average output power levels were not 0.25 dB > the output power level measured at the lowest data rate in 802.11b mode (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
	6.	The DUT was first evaluated for SAR with the Bluetooth disabled. A co-located simultaneous transmit SAR evaluation with both the 802.11b and Bluetooth enabled was performed in the worst-case configuration from the 802.11b single-transmit evaluations.
	7.	A worst-case SAR evaluation was performed with the extended battery to report a comparison between the two battery types.
	8.	The measured SAR for each diversity antenna was scaled to a duty factor of 75% to demonstrate compliance (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
	9.	The power drifts measured by the DASY4 system for the duration of the SAR evaluations were <5% from the start power.
	10.	The DUT battery was fully charged prior to the SAR evaluations.

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MEASUREMENT SUMMARY (Cont.)

BODY SAR MEASUREMENT RESULTS (802.11a: 5.18 - 5.32 GHz)

Test Date	Transmit Mode	Test Mode	Freq.	Chan.	Data Rate	Battery Type	Antenna Type	DUT Position to Planar Phantom	DUT Spacing to Planar Phantom	Cond. Power Before Test	SAR Drift During Test	Measured SAR 1g 100% Duty Factor	Scaled SAR 1g 75% Duty Factor [6]
			MHz		Mbps				cm	dBm	dB	W/kg	W/kg
Nov 16	**802.11a UNII-1**	OFDM	5200	40	6	Standard	MAIN	MAIN Antenna Edge of Tablet	0.0	15.5	-0.0090	**1.49**	**1.12**
Nov 21	802.11a UNII-1	OFDM	5200	40	6	Standard	AUX	AUX Antenna Edge of Tablet	0.0	15.5	0.0720	0.347	0.260
Nov 16	802.11a UNII-1	OFDM	5240	48	6	Standard	MAIN [4]	MAIN Antenna Edge of Tablet	0.0	14.8	0.0810	1.49	1.12
Nov 21	802.11a UNII-1	OFDM	5200	40	6	Standard	MAIN	Bottom Side of Tablet	0.0	15.5	0.0204	0.474	0.356
Nov 21	802.11a UNII-1	OFDM	5200	40	6	Standard	AUX	Bottom Side of Tablet	0.0	15.5	0.170	0.0242	0.0182
Nov 16	802.11a UNII-2	OFDM	5260	52	6	Standard	MAIN	MAIN Antenna Edge of Tablet	0.0	14.0	0.0830	1.48	1.11
Nov 21	802.11a UNII-2	OFDM	5260	52	6	Standard	AUX	AUX Antenna Edge of Tablet	0.0	14.0	-0.0887	0.396	0.297
Nov 21	**802.11a UNII-2**	OFDM	5300	60	6	Standard	MAIN [4]	MAIN Antenna Edge of Tablet	0.0	12.6	0.0050	**1.57**	**1.18**
Nov 21	802.11a UNII-2	OFDM	5260	52	6	Standard	MAIN	Bottom Side of Tablet	0.0	14.0	-0.0119	0.492	0.369
Nov 21	802.11a UNII-2	OFDM	5260	52	6	Standard	AUX	Bottom Side of Tablet	0.0	14.0	-0.0312	0.0243	0.0182

ANSI / IEEE C95.1 1999 - SAFETY LIMIT | **BODY: 1.6 W/kg (averaged over 1 gram)** | **Spatial Peak: Uncontrolled Exposure / General Population**

Measured Fluid Type	5200 MHz Body					5260 MHz Body					5300 MHz Body				
	IEEE Target		Date	Meas.	Dev.	IEEE Target		Date	Meas.	Dev.	IEEE Target		Date	Meas.	Dev.
Dielectric Constant ε_r	49.0	±10%	Nov 16	44.3	-9.6%	48.9	±10%	Nov 16	44.4	-9.2%	48.9	±10%	Nov 21	49.7	+1.7%
			Nov 21	49.7	+1.4%			Nov 21	49.6	+1.4%					
Conductivity σ (mho/m)	5.30	±5%	Nov 16	5.08	-4.2%	5.37	±5%	Nov 16	5.10	-5.0%	5.42	±5%	Nov 21	5.27	-2.7%
			Nov 21	5.11	-3.6%			Nov 21	5.11	-4.8%					

Test Date	ρ (Kg/m^3)	Ambient Temperature	Fluid Temperature	Fluid Depth	Relative Humidity	Atmospheric Pressure
November 16	1000	23.0	22.5	≥ 15	32	101.8
November 21	1000	23.5	22.7	≥ 15	33	102.1

Note(s)

1. The measurement results were obtained with the DUT tested in the conditions described in this report. Detailed measurement data and plots showing the maximum SAR location of the DUT are reported in Appendix A.
2. The procedures described in FCC OET "SAR Measurement Requirements for 802.11a/b/g Transmitters" were implemented (see reference [7]).
3. The procedures described in FCC OET "SAR Measurement Requirements for 3 - 6 GHz" were implemented (see reference [8]).
4. If the SAR levels measured at the highest output channel were ≥ 3 dB below the SAR limit, SAR evaluation for other remaining selected channels was optional (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
5. For transmitting diversity antennas, each transmitting antenna should be tested independently, one at a time, on the maximum average output channel in each frequency band and BW configuration. When the 1-g SAR values for all antenna are less than 1.2 W/kg (75% of limit), the remaining "required test channels" should be tested in each frequency band using the antenna with the highest SAR measured on the maximum output channel, otherwise test both antennas (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
6. Higher data rates were not evaluated based on the average output power levels were not 0.25 dB > the output power level measured at the lowest data rate in 802.11b mode (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
7. The measured SAR for each diversity antenna was scaled to a duty factor of 75% to demonstrate compliance (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
8. The power drifts measured by the DASY4 system for the duration of the SAR evaluations were <5% from the start power.
9. The DUT battery was fully charged prior to the SAR evaluations.

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MEASUREMENT SUMMARY (Cont.)

BODY SAR MEASUREMENT RESULTS (802.11a: 5.5 - 5.7 GHz)

Test Date	Transmit Mode	Test Mode	Freq.	Chan.	Data Rate	Battery Type	Antenna Type	DUT Position to Planar Phantom	DUT Spacing to Planar Phantom	Cond. Power Before Test	SAR Drift During Test	Measured SAR 1g 100% Duty Factor	Scaled SAR 1g 75% Duty Factor [6]
			MHz		Mbps				cm	dBm	dB	W/kg	W/kg
Nov 16	**802.11a UNII Mid**	OFDM	5700	140	6	Standard	MAIN	MAIN Antenna Edge of Tablet	0.0	12.2	0.00629	**1.63**	**1.22**
Nov 16	802.11a UNII Mid	OFDM	5520	104	6	Standard	MAIN	MAIN Antenna Edge of Tablet	0.0	9.8	0.117	1.54	1.16
Nov 16	802.11a UNII Mid	OFDM	5600	120	6	Standard	MAIN	MAIN Antenna Edge of Tablet	0.0	10.8	-0.0332	1.45	1.09
Nov 22	802.11a UNII Mid	OFDM	5700	140	6	Standard	AUX	AUX Antenna Edge of Tablet	0.0	12.2	0.0626	1.33	0.998
Nov 22	802.11a UNII Mid	OFDM	5520	104	6	Standard	AUX	AUX Antenna Edge of Tablet	0.0	9.8	0.107	0.417	0.313
Nov 22	802.11a UNII Mid	OFDM	5600	120	6	Standard	AUX	AUX Antenna Edge of Tablet	0.0	10.8	-0.0248	0.754	0.566
Nov 22	802.11a UNII Mid	OFDM	5700	140	6	Standard	MAIN	Bottom Side of Tablet	0.0	12.2	-0.189	0.367	0.275
Nov 22	802.11a UNII Mid	OFDM	5700	140	6	Standard	AUX	Bottom Side of Tablet	0.0	12.2	0.0609	0.0463	0.0347
Nov 22	802.11a UNII Mid	OFDM	5700	140	6	Standard	MAIN	MAIN Antenna Edge of Tablet	0.0	12.2	0.0300	1.54	1.16
	Bluetooth co-transmit [7] Modul. Fixed Freq.		2441	39	-		Internal			-0.97			

ANSI / IEEE C95.1 1999 - SAFETY LIMIT | **BODY: 1.6 W/kg (averaged over 1 gram)** | **Spatial Peak: Uncontrolled Exposure / General Population**

Measured Fluid Type		5520 MHz Body				5600 MHz Body				5700 MHz Body			
	Date	IEEE Target		Meas.	Dev.	IEEE Target		Meas.	Dev.	IEEE Target		Meas.	Dev.
Dielectric Constant ε_r	Nov 16	48.6	±10%	46.0	-5.3%	48.5	±10%	45.9	-5.4%	48.3	±10%	45.9	-5.0%
	Nov 22			45.7	-6.0%			45.7	-5.8%			45.5	-5.8%
Conductivity σ (mho/m)	Nov 16	5.67	±5%	5.55	-2.1%	5.77	±5%	5.70	-1.2%	5.88	±5%	5.73	-2.6%
	Nov 22			5.53	-2.5%			5.79	+0.3%			5.85	-0.5%

Test Date	ρ (Kg/m^3)	Ambient Temperature	Fluid Temperature	Fluid Depth	Relative Humidity	Atmospheric Pressure
November 16	1000	23.0	22.5	≥ 15	32	101.8
November 22	1000	23.5	22.7	≥ 15	33	102.1

Note(s)

1. The measurement results were obtained with the DUT tested in the conditions described in this report. Detailed measurement data and plots showing the maximum SAR location of the DUT are reported in Appendix A.
2. The procedures described in FCC OET "SAR Measurement Requirements for 802.11a/b/g Transmitters" were implemented (see reference [7]).
3. The procedures described in FCC OET "SAR Measurement Requirements for 3 - 6 GHz" were implemented (see reference [8]).
4. If the SAR levels measured at the highest output channel were ≥ 3 dB below the SAR limit, SAR evaluation for other remaining selected channels was optional (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
5. For transmitting diversity antennas, each transmitting antenna should be tested independently, one at a time, on the maximum average output channel in each frequency band and BW configuration. When the 1-g SAR values for all antenna are less than 1.2 W/kg (75% of limit), the remaining "required test channels" should be tested in each frequency band using the antenna with the highest SAR measured on the maximum output channel, otherwise test both antennas (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
6. Higher data rates were not evaluated based on the average output power levels were not 0.25 dB > the output power level measured at the lowest data rate in 802.11b mode (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
7. The measured SAR for each diversity antenna was scaled to a duty factor of 75% to demonstrate compliance (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
8. The DUT was first evaluated for SAR with the Bluetooth disabled. A co-located simultaneous transmit SAR evaluation with both the 802.11a and Bluetooth enabled was performed in the worst-case configuration from the 802.11 UNII Mid-Band single-transmit evaluations.
9. The power drifts measured by the DASY4 system for the duration of the SAR evaluations were <5% from the start power.
10. The DUT battery was fully charged prior to the SAR evaluations.

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MEASUREMENT SUMMARY (Cont.)

BODY SAR MEASUREMENT RESULTS (802.11a: 5.745 - 5.825 GHz)

Test Date	Transmit Mode	Test Mode	Freq.	Chan.	Data Rate	Battery Type	Antenna Type	DUT Position to Planar Phantom	DUT Spacing to Planar Phantom	Cond. Power Before Test	SAR Drift During Test	Measured SAR 1g 100% Duty Factor	Scaled SAR 1g 75% Duty Factor[6]
			MHz		Mbps				cm	dBm	dB	W/kg	W/kg
Nov 16	802.11a UNII-3	OFDM	5825	165	6	Standard	MAIN	MAIN Antenna Edge of Tablet	0.0	13.0	0.040	**1.54**	**1.16**
Nov 16	802.11a UNII-3	OFDM	5765	153	6	Standard	MAIN	MAIN Antenna Edge of Tablet	0.0	12.5	0.165	1.44	1.08
Nov 16	802.11a UNII-3	OFDM	5785	157	6	Standard	MAIN	MAIN Antenna Edge of Tablet	0.0	12.9	0.0847	1.46	1.10
Nov 23	802.11a UNII-3	OFDM	5825	165	6	Standard	AUX	AUX Antenna Edge of Tablet	0.0	13.0	0.107	1.07	0.803
Nov 23	802.11a UNII-3	OFDM	5765	153	6	Standard	AUX	AUX Antenna Edge of Tablet	0.0	12.5	0.008	1.31	0.983
Nov 23	802.11a UNII-3	OFDM	5785	157	6	Standard	AUX	AUX Antenna Edge of Tablet	0.0	12.9	0.030	1.17	0.878
Nov 23	802.11a UNII-3	OFDM	5825	165	6	Standard	MAIN	Bottom Side of Tablet	0.0	13.0	0.120	0.243	0.182
Nov 23	802.11a UNII-3	OFDM	5825	165	6	Standard	AUX	Bottom Side of Tablet	0.0	13.0	-0.137	0.0710	0.0533

ANSI / IEEE C95.1 1999 - SAFETY LIMIT	BODY: 1.6 W/kg (averaged over 1 gram)	Spatial Peak Uncontrolled Exposure / General Population

Test Date(s)	November 16, 2006	November 23, 2006
Measured Fluid Type	5800 MHz Body	
	IEEE Target	Date / Measured / Deviation
Dielectric Constant ε_r	48.2 ±10%	Nov 16: 46.1: -4.3%
		Nov 23: 45.1: -6.4%
Conductivity σ (mho/m)	6.00 ±5%	Nov 16: 6.12: +2.0%
		Nov 23: 6.06: +1.0%

Test Date(s)	Nov 16	Nov 23	Unit
Relative Humidity	32	33	%
Atmospheric Pressure	101.8	102.1	kPa
Ambient Temperature	23.0	23.5	°C
Fluid Temperature	22.5	22.7	°C
Fluid Depth	≥ 15	≥ 15	cm
ρ (Kg/m^3)	1000		

Note(s)

1. The measurement results were obtained with the DUT tested in the conditions described in this report. Detailed measurement data and plots showing the maximum SAR location of the DUT are reported in Appendix A.
2. The procedures described in FCC OET "SAR Measurement Requirements for 802.11a/b/g Transmitters" were implemented (see reference [7]).
3. The procedures described in FCC OET "SAR Measurement Requirements for 3 - 6 GHz" were implemented (see reference [8]).
4. If the SAR levels measured at the highest output channel were ≥ 3 dB below the SAR limit, SAR evaluation for other remaining selected channels was optional (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
5. For transmitting diversity antennas, each transmitting antenna should be tested independently, one at a time, on the maximum average output channel in each frequency band and BW configuration. When the 1-g SAR values for all antenna are less than 1.2 W/kg (75% of limit), the remaining "required test channels" should be tested in each frequency band using the antenna with the highest SAR measured on the maximum output channel, otherwise test both antennas (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
6. Higher data rates were not evaluated based on the average output power levels were not 0.25 dB > the output power level measured at the lowest data rate in 802.11b mode (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
7. The measured SAR for each diversity antenna was scaled to a duty factor of 75% to demonstrate compliance (per FCC OET "SAR Measurement Procedures for 802.11a/b/g Transmitters" - see reference [7]).
8. The power drifts measured by the DASY4 system for the duration of the SAR evaluations were <5% from the start power.
9. The DUT battery was fully charged prior to the SAR evaluations.

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6.0 DETAILS OF SAR EVALUATION

The MOTION COMPUTING INC. Model: LE1700 Tablet PC FCC ID: Q3QAWM7519ABG with Atheros WM7519ABG 802.11abg WLAN Card and co-located USI UB2-2111-S Bluetooth was compliant for localized Specific Absorption Rate (Uncontrolled Exposure) based on the test provisions and conditions described below. The SAR test setup photographs are shown in Appendix E.

Test Configurations

1. The DUT was evaluated for body SAR with the bottom side of the Tablet PC placed parallel to, and touching, the outer surface of the planar phantom. The DUT was evaluated for body SAR at the bottom side of the Tablet PC with both the main and auxiliary switched diversity antennas one at a time.
2. The DUT was evaluated for body SAR with the MAIN antenna edge (left side) of the Tablet PC placed parallel to, and touching, the outer surface of the planar phantom. The DUT was evaluated for body SAR at the MAIN antenna edge of the Tablet PC with only the switched diversity MAIN antenna transmitting.
3. The DUT was evaluated for body SAR with the AUX antenna edge (bottom edge) of the Tablet PC placed parallel to, and touching, the outer surface of the planar phantom. The DUT was evaluated for body SAR at the AUX antenna edge of the Tablet PC with only the switched diversity AUX antenna transmitting.
4. Co-transmit SAR evaluations were performed with the WLAN and Bluetooth transmitting simultaneously in the worst-case test configuration for 802.11a and 802.11b single-transmit modes.
5. The DUT was evaluated for SAR with the standard lithium-ion battery. An additional SAR evaluation was performed with the extended lithium-ion battery to report a comparison between batteries as shown in test data table (Page 7).
6. For the MAIN antenna and AUX antenna edge evaluations it was not possible for the DUT to be placed in the device holder, therefore a stack of low-density, low-loss dielectric foamed polystyrene was used.
7. Adjacent antenna edges were not evaluated based on the adjacent antenna was not within 10 cm of the planar phantom.

Test Modes & Power Settings

8. The average conducted output power levels were measured prior to the SAR evaluations using a spectrum analyzer according to 15.247(b) (KDB Publication #558074 - Power Output Option 2, Method 1). The RBW was set to 1 MHz and the VBW was set to 3 MHz.
9. The power drift of the DUT was measured by the DASY4 system during the SAR evaluations.
10. The DUT was tested using internal chipset-based test mode software transmitting continuously at maximum power with a modulated DSSS signal in 802.11b mode and a modulated OFDM signal in 802.11a/g modes.
11. For the co-located simultaneous transmit SAR evaluations the Bluetooth was transmitting continuously at maximum power on a fixed frequency (frequency hopping disabled) with a modulated signal.
12. The DUT battery was fully charged prior to the SAR evaluations.

Test Conditions

13. The fluid temperature was measured prior to and after the SAR evaluations to ensure the temperature remained within +/-2°C of the fluid temperature reported during the dielectric parameter measurements.
14. The dielectric parameters of the simulated tissue mixtures were measured prior to the SAR evaluations using an ALS-PR-DIEL Dielectric Probe Kit and an HP 8753ET Network Analyzer (see Appendix C).
15. The SAR evaluations were performed within 24 hours of the system performance checks.

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7.0 EVALUATION PROCEDURES

a. (i) The SAR evaluations were performed in the applicable area of the phantom depending on the type of device being tested. For devices held to the ear during normal operation, both the left and right ear positions were evaluated using the SAM phantom.

(ii) For body-worn and face-held devices a planar phantom was used.

b. The SAR was determined by a pre-defined procedure within the DASY4 software. Upon completion of a reference and optical surface check, the exposed region of the phantom was scanned near the inner surface with a grid spacing of 15mm x 15mm.

An area scan was determined as follows:

c. Based on the defined area scan grid, a more detailed grid is created to increase the points by a factor of 10. The interpolation function then evaluates all field values between corresponding measurement points.

d. A linear search is applied to find all the candidate maxima. Subsequently, all maxima are removed that are >2 dB from the global maximum. The remaining maxima are then used to position the cube scans.

A 1g and 10g spatial peak SAR was determined as follows:

e. Extrapolation is used to determine the values between the dipole center of the probe and the surface of the phantom. This data cannot be measured because the center of the dipole sensors is 1.0 mm away from the probe tip and the distance between the probe and the boundary must be larger than 25% of the probe diameter. The probe diameter is 2.4 mm. In the DASY4 software, the distance between the sensor center and phantom surface is set to 2.0 mm. This provides a distance of 1.0 mm between the probe tip and the surface. The extrapolation of the values between the dipole center and the surface of the phantom was based on trivariate quadratics computed from the previously calculated 3D interpolated points nearest the phantom surface.

f. Interpolated data is used to calculate the average SAR over 1g and 10g cubes by spatially discretizing the entire measured cube. The volume used to determine the averaged SAR is a 1mm grid (42875 interpolated points).

g. For frequencies < 3 GHz a zoom scan volume of 24 mm x 24 mm x 24 mm (7x7x7 points) centered at the peak SAR location determined from the area scan was used and a zoom scan resolution of 5 mm x 5 mm x 5 mm was used.

h. For frequencies > 3 GHz a zoom scan volume of 24 mm x 24 mm x 20 mm (7x7x9 points) centered at the peak SAR location determined from the area scan was used and a zoom scan resolution of 4 mm x 4 mm x 2.5 mm was used.

i. The procedures described in FCC OET “SAR Measurement Procedures for 802.11a/b/g Transmitters” were implemented (see reference [7]).

j. The procedures described in FCC OET “SAR Measurement Requirements for 3 - 6 GHz” were implemented for the SAR evaluations in 802.11a mode (see reference [8]).

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8.0 SYSTEM PERFORMANCE CHECK

Prior to the SAR evaluations system checks were performed using a planar phantom with 2450 MHz and 5000 MHz validation dipoles (see Appendix F for system validation procedures). The dielectric parameters of the simulated tissue mixtures were measured prior to the system performance check using an ALS-PR-DIEL Dielectric Probe Kit and an HP 8753ET Network Analyzer (see Appendix C). A forward power of 250 mW was applied to the dipole and the system was verified to a tolerance of ±10% (see Appendix B for system performance check test plots). Please refer to the tables at the bottom of this page for system manufacturer's reference SAR values from the DASY 4 Manual (see reference [6]).

SYSTEM PERFORMANCE CHECK EVALUATIONS

Test Date	Equiv. Body Tissue	SAR 1g (W/kg)			PEAK SAR (W/kg)			Dielectric Constant ε_r			Conductivity σ (mho/m)			Amb. Temp. (°C)	Fluid Temp. (°C)	Humid %	Barom. Press. (kPa)
		SPEAG Target	Meas.	Dev.	SPEAG Target	Meas.	Dev.	IEEE Target	Meas.	Dev.	IEEE Target	Meas.	Dev.				
Nov 16	5200	18.0 ±10%	19.4	+7.8%	71.2 ±15%	78.1	+9.7%	49.0±10%	44.3	-9.6%	5.30±5%	5.08	-4.2%	23.0	22.5	32	101.8
Nov 16	5500	19.8 ±10%	21.6	+9.1%	81.6 ±15%	89.4	+9.6%	48.6±10%	45.8	-5.8%	5.65±5%	5.50	-2.7%	23.0	22.5	32	101.8
Nov 16	5800	18.5 ±10%	18.5	0.0%	81.2 ±15%	84.4	+3.9%	48.2 ±10%	46.1	-4.4%	6.00 ±5%	6.12	+2.0%	23.0	22.5	32	101.8
Nov 21	5200	18.0 ±10%	18.0	0.0%	71.2 ±15%	74.3	+4.4%	49.0±10%	49.7	+1.4%	5.30±5%	5.11	-3.6%	23.5	22.7	32	102.1
Nov 22	5500	19.8 ±10%	20.2	+2.0%	81.6 ±15%	91.4	+12.0%	48.6±10%	46.0	-5.3%	5.65±5%	5.66	+0.2%	23.5	22.7	32	102.1
Nov 23	5800	18.5 ±10%	17.3	-6.5%	81.2 ±15%	88.3	+8.7%	48.2 ±10%	45.1	-6.4%	6.00 ±5%	6.06	+1.0%	23.5	22.7	32	102.1
Nov 27	2450	12.8 ±10%	13.5	+5.5%	--	--	--	52.7±5%	50.5	-4.2%	1.95±5%	1.98	+1.5%	25.0	23.7	33	101.2

Fluid Depth	≥ 15 cm	Note(s)	The fluid temperature was measured prior to and after each of the SAR evaluations to ensure the temperature remained within +/-2°C of the fluid temperature reported during the dielectric parameter measurements.
ρ (Kg/m^3)	1000		

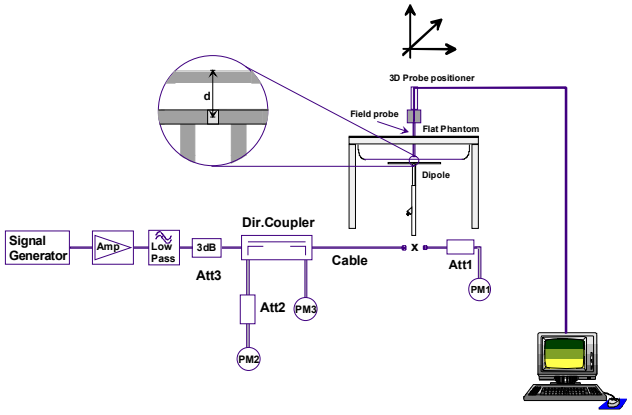

Figure 1. System Performance Check Measurement Setup

Dipole Type	Distance [mm]	Frequency [MHz]	SAR (1g) [W/kg]	SAR (10g) [W/kg]	SAR (peak) [W/kg]
D300V2	15	300	3.02	2.06	4.36
D450V2	15	450	5.01	3.36	7.22
D835V2	15	835	9.71	6.38	14.1
D900V2	15	900	11.1	7.17	16.3
D1450V2	10	1450	29.6	16.6	49.8
D1500V2	10	1500	30.8	17.1	52.1
D1640V2	10	1640	34.4	18.7	59.4
D1800V2	10	1800	38.5	20.3	67.5
D1900V2	10	1900	39.8	20.8	69.6
D2000V2	10	2000	40.9	21.2	71.5
D2450V2	10	2450	51.2	23.7	97.6
D3000V2	10	3000	61.9	24.8	136.7

Table 32.1: Numerical reference SAR values for SPEAG dipoles and flat phantom filled with body-tissue simulating liquid. Note: All SAR values normalized to 1 W forward power.

Table 1. SAR system manufacturer's reference body SAR values (< 5 GHz)

2450MHz Dipole Setup

5 GHz Dipole Setup

Reference SAR values

The reference SAR values were calculated using finite-difference time-domain FDTD method (feed-point impedance set to 50 Ω) and the mechanical dimensions of the D5GHzV2 dipole (manufactured by SPEAG).

f (GHz)	Head Tissue			Body Tissue		
	SAR_{1g}	SAR_{10g}	SAR_{peak}	SAR_{1g}	SAR_{10g}	SAR_{peak}
5.0	72.9	20.7	285.6	68.1	19.2	260.3
5.1	74.6	21.1	297.5	78.8	19.6	272.3
5.2	76.5	21.6	310.3	71.8	20.1	284.7
5.5	83.3	23.4	349.4	79.1	22.0	326.3
5.8	78.0	21.9	340.9	74.1	20.5	324.7

Table 27.2: Numerical reference SAR values for D5GHzV2 dipole and flat phantom.

Table 2. SAR system manufacturer's reference body SAR values (≥ 5 GHz)

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9.0 SIMULATED EQUIVALENT TISSUES

The 2450MHz body simulated tissue mixture consisted of Glycol-monobutyl, water, and salt. The 5.2GHz and 5.8GHz simulated tissue mixtures provided by SPEAG are listed below. The dielectric parameters of the fluid (permittivity and conductivity) were measured prior to the SAR evaluations. See Appendix D for manufacturer's fluid data sheet.

SIMULATED TISSUE MIXTURES		
INGREDIENT	**2450 MHz Body**	**2450 MHz Body**
	System Performance Check	DUT Evaluation
Water	69.98 %	69.98 %
Glycol Monobutyl	30.00 %	30.00 %
Salt	0.02 %	0.02 %

SIMULATED TISSUE MIXTURES		
INGREDIENT	System Performance Check & DUT Evaluation	
	5.2GHz/5.5GHz/5.8GHz Body	**5 GHz Fluid**
Water	64-78%	
Mineral Oil	11-18%	
Emulsifiers	9-15%	
Additives and Salt	2-3%	

TISSUE TEMPERATURE SENSITIVITY

Date	Tissue Type	Temp. (°C)	Dielectric Constant ε_r	Deviation (%)	Conductivity σ (mho/m)	Deviation (%)
Nov. 20	5.8 GHz Brain	20	34.2	-2.5	5.13	-0.5
Nov. 20	5.8 GHz Brain	22	35.1	0	5.16	0
Nov. 20	5.8 GHz Brain	24	34.9	-0.6	5.06	-2.0
Note(s)	1. The fluid temperature during the SAR evaluations was consistent within +/-2°C from the temperature reported during the dielectric parameter measurements. Fluid temperature sensitivity data is reported to show tissue dielectric parameter tolerances when varied by +/-2°C.					

10.0 SAR SAFETY LIMITS

EXPOSURE LIMITS	SAR (W/kg)	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average (averaged over the whole body)	0.08	0.4
Spatial Peak (averaged over any 1 g of tissue)	1.60	8.0
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0
Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.		
Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.		

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11.0 ROBOT SYSTEM SPECIFICATIONS

Specifications	
Positioner	Stäubli Unimation Corp. Robot Model: RX60L
Repeatability	0.02 mm
No. of axis	6
Data Acquisition Electronic (DAE) System	
Cell Controller	
Processor	AMD Athlon XP 2400+
Clock Speed	2.0 GHz
Operating System	Windows XP Professional
Data Converter	
Features	Signal Amplifier, multiplexer, A/D converter, and control logic
Software	Measurement Software: DASY4, V4.7 Build 44
	Postprocessing Software: SEMCAD, V1.8 Build 171
Connecting Lines	Optical downlink for data and status info.; Optical uplink for commands and clock
DASY4 Measurement Server	
Function	Real-time data evaluation for field measurements and surface detection
Hardware	PC/104 166MHz Pentium CPU; 32 MB chipdisk; 64 MB RAM
Connections	COM1, COM2, DAE, Robot, Ethernet, Service Interface
E-Field Probe	
Model	EX3DV4
Serial No.	3547
Construction	Symmetrical design with triangular core
Frequency	10 MHz to 6 GHz
Linearity	±0.2 dB (30 MHz to 3 GHz)
Phantom(s)	
Type	Planar Phantom
Shell Material	Fiberglass
Thickness	2.0 ±0.1 mm
Volume	Approx. 70 liters

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12.0 PROBE SPECIFICATION (EX3DV4)

Construction:	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g. DGBE)
Calibration:	Basic Broadband Calibration in air: 10-3000 MHz Conversion Factors (CF) for HSL 900 and HSL 1750
Frequency:	10 MHz to >6 GHz; Linearity: ±0.2 dB (30 MHz to 3 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 μW/g to >100 mW/g; Linearity: ±0.2 dB (noise: typically < 1 μW/g)
Dimensions:	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1.0 mm
Application:	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better than 30%.

EX3DV4 E-Field Probe

13.0 PLANAR PHANTOM

The planar phantom is a fiberglass shell phantom with a 2.0 mm (+/-0.2mm) thick device measurement area at the center of the phantom for SAR evaluations of devices with a larger surface area than the planar section of the SAM phantom. The planar phantom is integrated in a wooden table (see Appendix H for dimensions and specifications of the planar phantom). The planar phantom was also used for the system performance check evaluation.

Planar Phantom

14.0 DEVICE HOLDER

The DASY4 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. For evaluations of larger devices a Plexiglas platform is attached to the device holder.

Device Holder

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15.0 TEST EQUIPMENT LIST

TEST EQUIPMENT		ASSET NO.	SERIAL NO.	DATE CALIBRATED		CALIBRATION DUE DATE
USED	DESCRIPTION					
x	Schmid & Partner DASY4 System	-	-	-		-
x	-DASY4 Measurement Server	00158	1078	N/A		N/A
x	-Robot	00046	599396-01	N/A		N/A
x	-DAE4	00019	353	21Jun06		21Jun07
	-DAE3	00018	370	08Feb06		08Feb07
	-ET3DV6 E-Field Probe	00016	1387	16Mar06		16Mar07
x	-EX3DV4 E-Field Probe	00125	3547	14Feb06		14Feb07
	-300MHz Validation Dipole	00023	135	23Oct06		23Oct07
	-450MHz Validation Dipole	00024	136	07Dec06		07Dec07
	-835MHz Validation Dipole	00022	411	**Brain**	28Mar06	28Mar07
				Body	27Mar06	27Mar07
	-900MHz Validation Dipole	00020	054	**Brain**	06Jun06	06Jun07
				Body	06Jun06	06Jun07
	-1640MHz Validation Dipole	00212	0175	**Brain**	14Aug06	14Aug07
	-1800MHz Validation Dipole	00021	247	**Brain**	08Jun06	08Jun07
				Body	09Jun06	09Jun07
	-1900MHz Validation Dipole	00032	151	**Brain**	09Jun06	09Jun07
				Body	12Jun06	12Jun07
x	-2450MHz Validation Dipole	00025	150	**Body**	24Apr06	24Apr07
x	5GHz Validation Dipole	5200MHz	00126	1031	**Body**	18Jul06	18Jul07
x		5500 MHz			**Body**	14Nov06	14Nov07
		5800MHz			**Brain**	15Mar06	15Mar07
x					**Body**	18Jul06	18Jul07
	-SAM Phantom V4.0C	00154	1033	N/A		N/A
x	-Barski Planar Phantom	00155	03-01	N/A		N/A
	-Plexiglas Side Planar Phantom	00156	161	N/A		N/A
	-Plexiglas Validation Planar Phantom	00157	137	N/A		N/A
x	ALS-PR-DIEL Dielectric Probe Kit	00160	260-00953	N/A		N/A
x	Gigatronics 8652A Power Meter	00110	1835801	12Apr06		12Apr07
	Gigatronics 8652A Power Meter	00007	1835272	03Feb06		03Feb07
x	Gigatronics 80701A Power Sensor	00011	1833542	03Feb06		03Feb07
x	Gigatronics 80701A Power Sensor	00013	1833713	03Feb06		03Feb07
x	HP 8753ET Network Analyzer	00134	US39170292	18Apr06		18Apr07
	HP 8648D Signal Generator	00005	3847A00611	N/A		N/A
	Rohde & Schwarz SMR40 Signal Generator	00006	100104	06Apr06		06Apr07
x	Amplifier Research 5S1G4 Power Amplifier	00106	26235	N/A		N/A
x	HP E4408B Spectrum Analyzer	00015	US39240170	02Feb06		02Feb07
	Anritsu Radio Communication Analyzer	00208	6200241241	06Jun06		06Jun07

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16.0 MEASUREMENT UNCERTAINTIES

UNCERTAINTY BUDGET FOR DEVICE EVALUATION (5 GHz)						
Error Description	**Uncertainty Value ±%**	**Probability Distribution**	**Divisor**	**ci 1g**	**Uncertainty Value ±% (1g)**	**V_i or V_{eff}**
Measurement System						
Probe calibration (5 GHz)	6.6	Normal	1	1	6.6	∞
Axial isotropy of the probe	4.7	Rectangular	1.732050808	0.7	1.9	∞
Spherical isotropy of the probe	9.6	Rectangular	1.732050808	0.7	3.9	∞
Spatial resolution	0	Rectangular	1.732050808	1	0.0	∞
Boundary effects	2	Rectangular	1.732050808	1	1.2	∞
Probe linearity	4.7	Rectangular	1.732050808	1	2.7	∞
Detection limit	1	Rectangular	1.732050808	1	0.6	∞
Readout electronics	0.3	Normal	1	1	0.3	∞
Response time	0.8	Rectangular	1.732050808	1	0.5	∞
Integration time	2.6	Rectangular	1.732050808	1	1.5	∞
RF ambient conditions	3	Rectangular	1.732050808	1	1.7	∞
Mech. constraints of robot	0.8	Rectangular	1.732050808	1	0.5	∞
Probe positioning	5.7	Rectangular	1.732050808	1	3.3	∞
Extrapolation & integration	4	Rectangular	1.732050808	1	2.3	∞
Test Sample Related						
Device positioning	2.9	Normal	1	1	2.9	12
Device holder uncertainty	3.6	Normal	1	1	3.6	8
Power drift	5	Rectangular	1.732050808	1	2.9	∞
Phantom and Setup						
Phantom uncertainty	4	Rectangular	1.732050808	1	2.3	∞
Liquid conductivity (target)	5	Rectangular	1.732050808	0.64	1.8	∞
Liquid conductivity (measured)	5	Normal	1	0.64	3.2	∞
Liquid permittivity (target)	10	Rectangular	1.732050808	0.6	3.5	∞
Liquid permittivity (measured)	5	Normal	1	0.6	3.0	∞
Combined Standard Uncertainty					**12.74**	
Expanded Uncertainty (k=2)					**25.47**	

Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003 (see reference [5])

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MEASUREMENT UNCERTAINTIES (Cont.)

UNCERTAINTY BUDGET FOR SYSTEM VALIDATION (5 GHz)						
Error Description	**Uncertainty Value ±%**	**Probability Distribution**	**Divisor**	**ci 1g**	**Uncertainty Value ±% (1g)**	**V_i or V_{eff}**
Measurement System						
Probe calibration (5 GHz)	6.6	Normal	1	1	6.6	∞
Axial isotropy of the probe	4.7	Rectangular	1.732050808	1	2.7	∞
Spherical isotropy of the probe	9.6	Rectangular	1.732050808	1	5.5	∞
Spatial resolution	0	Rectangular	1.732050808	1	0.0	∞
Boundary effects	2	Rectangular	1.732050808	1	1.2	∞
Probe linearity	4.7	Rectangular	1.732050808	1	2.7	∞
Detection limit	1	Rectangular	1.732050808	1	0.6	∞
Readout electronics	0.3	Normal	1	1	0.3	∞
Response time	0	Rectangular	1.732050808	1	0.0	∞
Integration time	0	Rectangular	1.732050808	1	0.0	∞
RF ambient conditions	3	Rectangular	1.732050808	1	1.7	∞
Mech. constraints of robot	0.8	Rectangular	1.732050808	1	0.5	∞
Probe positioning	5.7	Rectangular	1.732050808	1	3.3	∞
Extrapolation & integration	4	Rectangular	1.732050808	1	2.3	∞
Dipole						
Dipole positioning	2	Rectangular	1.732050808	1	1.2	∞
Power & Power Drift	4.7	Rectangular	1.732050808	1	2.7	∞
Phantom and Setup						
Phantom uncertainty	4	Rectangular	1.732050808	1	2.3	∞
Liquid conductivity (target)	5	Rectangular	1.732050808	0.64	1.8	∞
Liquid conductivity (measured)	5	Normal	1	0.64	3.2	∞
Liquid permittivity (target)	10	Rectangular	1.732050808	0.6	3.5	∞
Liquid permittivity (measured)	5	Normal	1	0.6	3.0	∞
Combined Standard Uncertainty					**12.58**	
Expanded Uncertainty (k=2)					**25.15**	

Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003 (see reference [5])

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MEASUREMENT UNCERTAINTIES (Cont.)

UNCERTAINTY BUDGET FOR DEVICE EVALUATION (2.4 GHz)						
Error Description	**Uncertainty Value ±%**	**Probability Distribution**	**Divisor**	**ci 1g**	**Uncertainty Value ±% (1g)**	**V_i or V_{eff}**
Measurement System						
Probe calibration (2.4 GHz)	5.9	Normal	1	1	5.9	∞
Axial isotropy of the probe	4.7	Rectangular	1.732050808	0.7	1.9	∞
Spherical isotropy of the probe	9.6	Rectangular	1.732050808	0.7	3.9	∞
Spatial resolution	0	Rectangular	1.732050808	1	0.0	∞
Boundary effects	1	Rectangular	1.732050808	1	0.6	∞
Probe linearity	4.7	Rectangular	1.732050808	1	2.7	∞
Detection limit	1	Rectangular	1.732050808	1	0.6	∞
Readout electronics	0.3	Normal	1	1	0.3	∞
Response time	0.8	Rectangular	1.732050808	1	0.5	∞
Integration time	2.6	Rectangular	1.732050808	1	1.5	∞
RF ambient conditions	3	Rectangular	1.732050808	1	1.7	∞
Mech. constraints of robot	0.4	Rectangular	1.732050808	1	0.2	∞
Probe positioning	2.9	Rectangular	1.732050808	1	1.7	∞
Extrapolation & integration	1	Rectangular	1.732050808	1	0.6	∞
Test Sample Related						
Device positioning	2.9	Normal	1	1	2.9	12
Device holder uncertainty	3.6	Normal	1	1	3.6	8
Power drift	5	Rectangular	1.732050808	1	2.9	∞
Phantom and Setup						
Phantom uncertainty	4	Rectangular	1.732050808	1	2.3	∞
Liquid conductivity (target)	5	Rectangular	1.732050808	0.64	1.8	∞
Liquid conductivity (measured)	5	Normal	1	0.64	3.2	∞
Liquid permittivity (target)	5	Rectangular	1.732050808	0.6	1.7	∞
Liquid permittivity (measured)	5	Normal	1	0.6	3.0	∞
Combined Standard Uncertainty					**11.44**	
Expanded Uncertainty (k=2)					**22.89**	

Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003 (see reference [5])

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MEASUREMENT UNCERTAINTIES (Cont.)

UNCERTAINTY BUDGET FOR SYSTEM VALIDATION (2.4 GHz)						
Error Description	**Uncertainty Value ±%**	**Probability Distribution**	**Divisor**	**ci 1g**	**Uncertainty Value ±% (1g)**	**V_i or V_{eff}**
Measurement System						
Probe calibration (2.4 GHz)	5.9	Normal	1	1	5.9	∞
Axial isotropy of the probe	4.7	Rectangular	1.732050808	1	2.7	∞
Spherical isotropy of the probe	0	Rectangular	1.732050808	1	0.0	∞
Spatial resolution	0	Rectangular	1.732050808	1	0.0	∞
Boundary effects	1	Rectangular	1.732050808	1	0.6	∞
Probe linearity	4.7	Rectangular	1.732050808	1	2.7	∞
Detection limit	1	Rectangular	1.732050808	1	0.6	∞
Readout electronics	0.3	Normal	1	1	0.3	∞
Response time	0	Rectangular	1.732050808	1	0.0	∞
Integration time	0	Rectangular	1.732050808	1	0.0	∞
RF ambient conditions	3	Rectangular	1.732050808	1	1.7	∞
Mech. constraints of robot	0.4	Rectangular	1.732050808	1	0.2	∞
Probe positioning	2.9	Rectangular	1.732050808	1	1.7	∞
Extrapolation & integration	1	Rectangular	1.732050808	1	0.6	∞
Dipole						
Dipole Positioning	2	Normal	1.732050808	1	1.2	∞
Power & Power Drift	4.7	Normal	1.732050808	1	2.7	∞
Phantom and Setup						
Phantom uncertainty	4	Rectangular	1.732050808	1	2.3	∞
Liquid conductivity (target)	5	Rectangular	1.732050808	0.64	1.8	∞
Liquid conductivity (measured)	5	Normal	1	0.64	3.2	∞
Liquid permittivity (target)	5	Rectangular	1.732050808	0.6	1.7	∞
Liquid permittivity (measured)	5	Normal	1	0.6	3.0	∞
Combined Standard Uncertainty					**9.81**	
Expanded Uncertainty (k=2)					**19.61**	

Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003 (see reference [5])

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17.0 REFERENCES

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[2] Health Canada - “Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz”, Safety Code 6: 1999.

[3] Federal Communications Commission - “Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields”, OET Bulletin 65, Supplement C (Edition 01-01), FCC, Washington, D.C.: June 2001.

[4] Industry Canada - “Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)”, Radio Standards Specification RSS-102 Issue 2: November 2005.

[5] IEEE Standard 1528-2003 - “Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques”: December 2003.

[6] Schmid & Partner Engineering AG - “DASY4 Manual”, V4.5: March 2005.

[7] Federal Communication Commission - “SAR Measurement Procedures for 802.11a/b/g Transmitters”: October 2006 (Rev 1.1).

[8] Federal Communications Commission - “SAR Measurement Requirements for 3 - 6 GHz”: October 2006 (Rev. 1.1).

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APPENDIX A - SAR MEASUREMENT DATA

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Date Tested: 11/27/2006

Body SAR - 802.11b - 1 Mbps - 2412 MHz - Channel 1 - MAIN Antenna Edge of DUT - MAIN Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

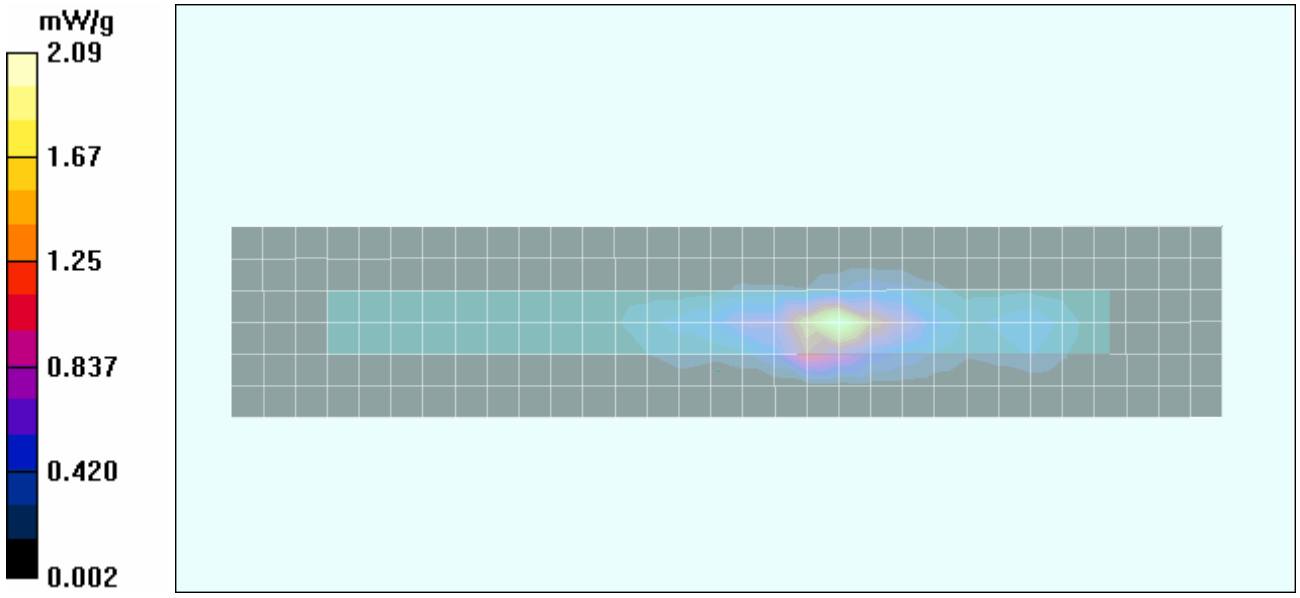
Ambient Temp: 25.0°C; Fluid Temp: 23.7°C; Barometric Pressure: 101.2 kPa; Humidity: 33%

Communication System: DSSS WLAN
Frequency: 2412 MHz; Duty Cycle: 1:1
RF Output Power: 17.0 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M2450 Medium parameters used: f = 2412 MHz; σ = 1.98 mho/m; ε_r = 50.5; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(7.53, 7.53, 7.53); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 1 - 2412 MHz
Area Scan (7x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 1 - 2412 MHz
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.0 V/m; Power Drift = 0.137 dB
Peak SAR (extrapolated) = 3.00 W/kg
SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.516 mW/g
Maximum value of SAR (measured) = 2.09 mW/g



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Date Tested: 11/27/2006

Body SAR - 802.11b - 1 Mbps - 2412 MHz - Channel 1 - AUX Antenna Edge of DUT - AUX Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

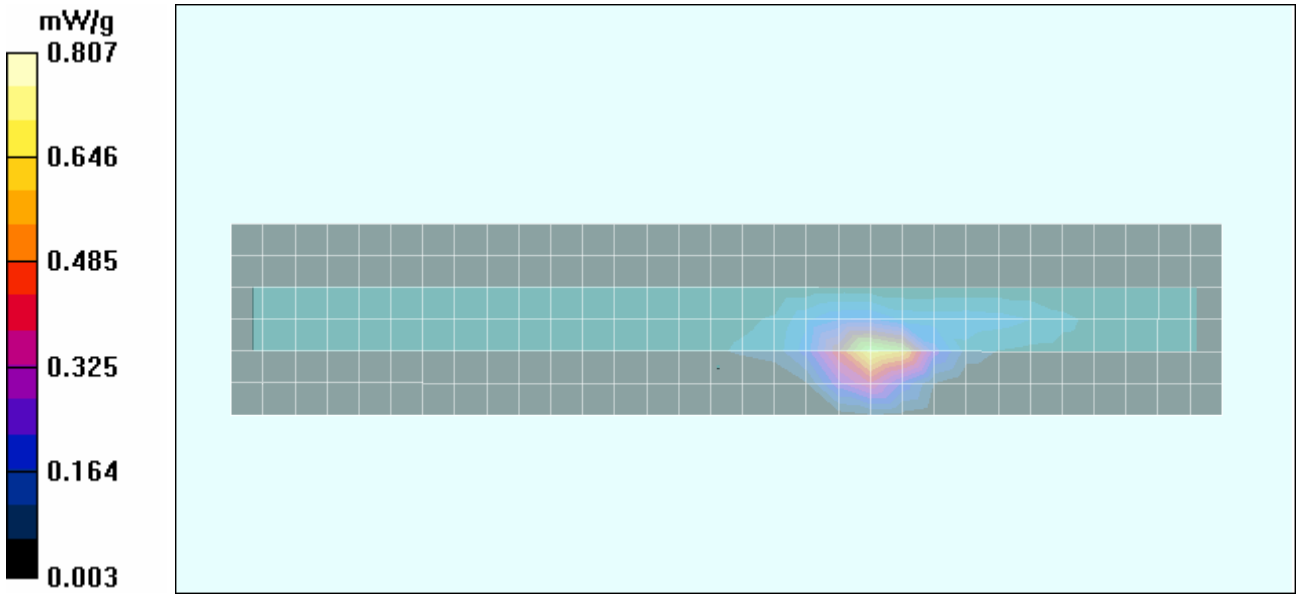
Ambient Temp: 25.0°C; Fluid Temp: 23.7°C; Barometric Pressure: 101.2 kPa; Humidity: 33%

Communication System: DSSS WLAN
Frequency: 2412 MHz; Duty Cycle: 1:1
RF Output Power: 17.0 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M2450 Medium parameters used: f = 2412 MHz; σ = 1.98 mho/m; ε_r = 50.5; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(7.53, 7.53, 7.53); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 1 - 2412 MHz
Area Scan (7x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 1 - 2412 MHz
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.21 V/m; Power Drift = 0.199 dB
Peak SAR (extrapolated) = 1.20 W/kg
SAR(1 g) = 0.508 mW/g; SAR(10 g) = 0.218 mW/g
Maximum value of SAR (measured) = 0.807 mW/g



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Date Tested: 11/27/2006

Body SAR - 802.11b - 1 Mbps - 2437 MHz - Channel 6 - MAIN Antenna Edge of DUT - MAIN Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

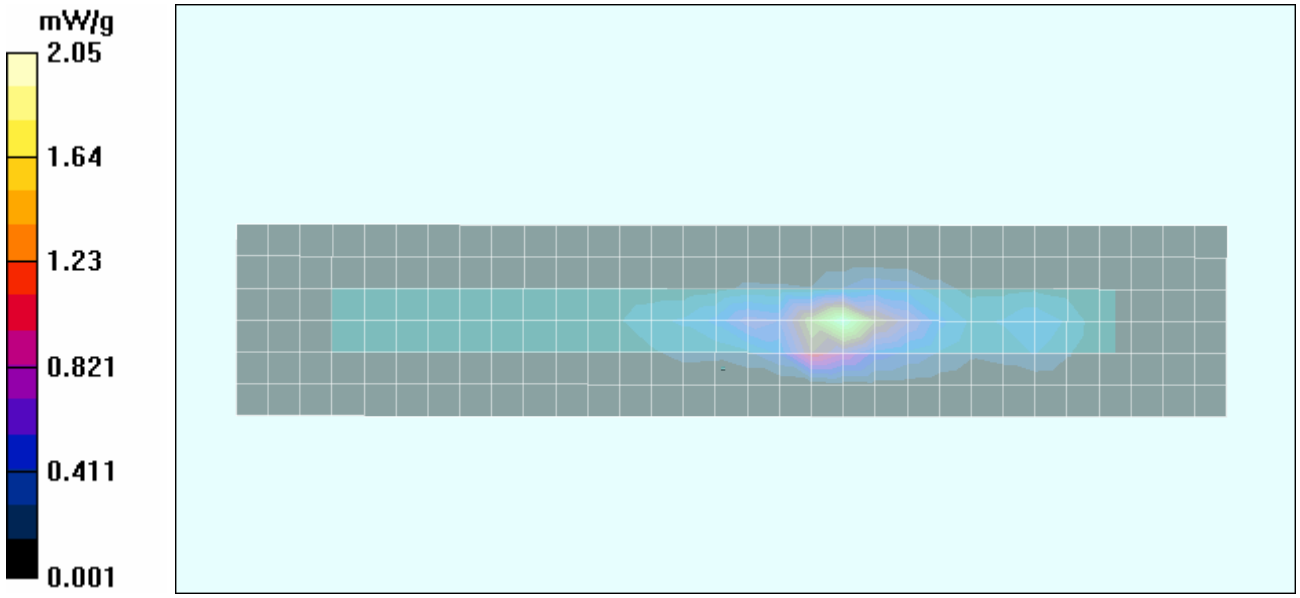
Ambient Temp: 25.0°C; Fluid Temp: 23.7°C; Barometric Pressure: 101.2 kPa; Humidity: 33%

Communication System: DSSS WLAN
Frequency: 2437 MHz; Duty Cycle: 1:1
RF Output Power: 16.5 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M2450 Medium parameters used: f = 2437 MHz; σ = 1.98 mho/m; ε_r = 50.5; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(7.53, 7.53, 7.53); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 6 - 2437 MHz
Area Scan (7x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 6 - 2437 MHz
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.3 V/m; Power Drift = -0.0760 dB
Peak SAR (extrapolated) = 3.07 W/kg
SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.494 mW/g
Maximum value of SAR (measured) = 2.05 mW/g



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Date Tested: 11/27/2006

Body SAR - 802.11b - 1 Mbps - 2462 MHz - Channel 11 - MAIN Antenna Edge of DUT - MAIN Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

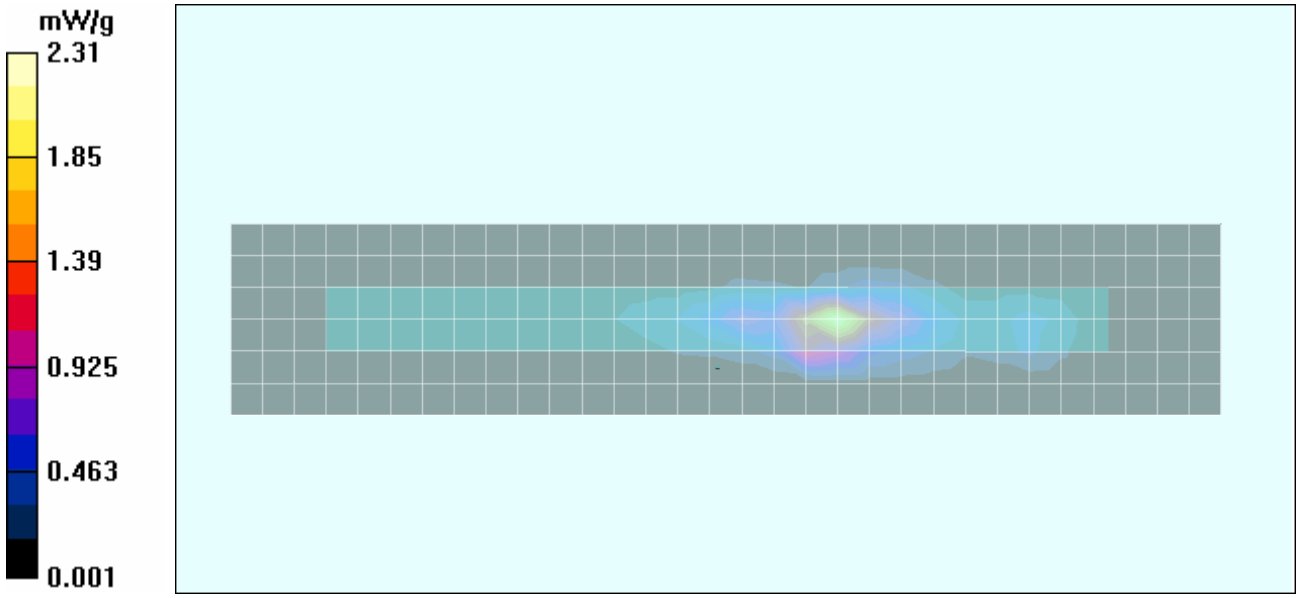
Ambient Temp: 25.0°C; Fluid Temp: 23.7°C; Barometric Pressure: 101.2 kPa; Humidity: 33%

Communication System: DSSS WLAN
Frequency: 2462 MHz; Duty Cycle: 1:1
RF Output Power: 16.5 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M2450 Medium parameters used: f = 2462 MHz; σ = 1.98 mho/m; ε_r = 50.5; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(7.53, 7.53, 7.53); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 11 - 2462 MHz
Area Scan (7x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 11 - 2462 MHz
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.6 V/m; Power Drift = -0.152 dB
Peak SAR (extrapolated) = 3.61 W/kg
SAR(1 g) = 1.36 mW/g; SAR(10 g) = 0.533 mW/g
Maximum value of SAR (measured) = 2.31 mW/g



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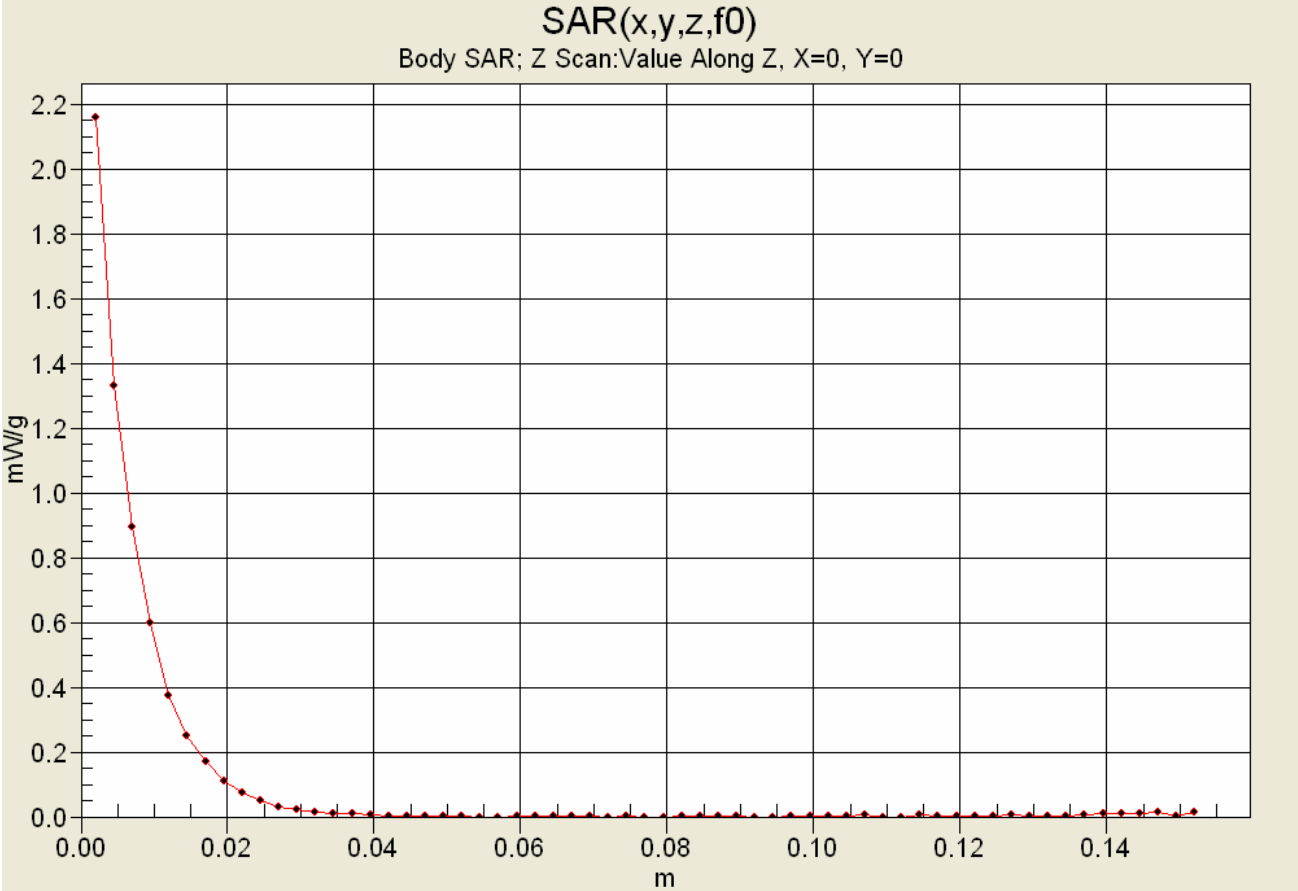
Z-Axis Scan



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Date Tested: 11/27/2006

Body SAR - 802.11b - 1 Mbps - 2412 MHz - Channel 1 - Bottom Side of DUT - MAIN Antenna

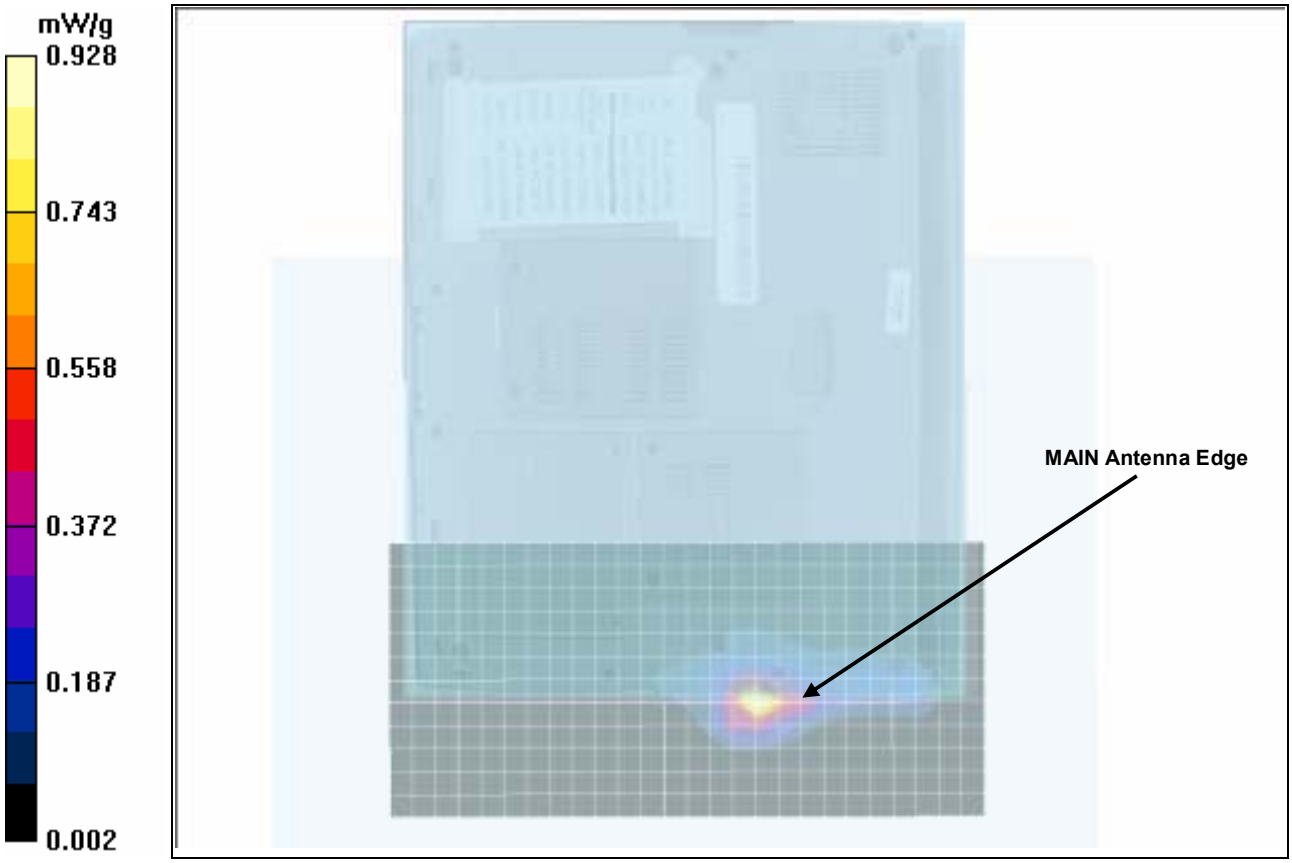
DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

Ambient Temp: 25.0°C; Fluid Temp: 23.7°C; Barometric Pressure: 101.2 kPa; Humidity: 33%

Communication System: DSSS WLAN
Frequency: 2412 MHz; Duty Cycle: 1:1
RF Output Power: 17.0 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M2450 Medium parameters used: f = 2412 MHz; σ = 1.98 mho/m; ε_r = 50.5; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(7.53, 7.53, 7.53); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - MAIN Antenna - Channel 1 - 2412 MHz
Area Scan (13x27x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - MAIN Antenna - Channel 1 - 2412 MHz
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.6 V/m; Power Drift = -0.0930 dB
Peak SAR (extrapolated) = 1.45 W/kg
SAR(1 g) = 0.580 mW/g; SAR(10 g) = 0.242 mW/g
Maximum value of SAR (measured) = 0.928 mW/g



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Date Tested: 11/27/2006

Body SAR - 802.11b - 1 Mbps - 2412 MHz - Channel 1 - Bottom Side of DUT - AUX Antenna

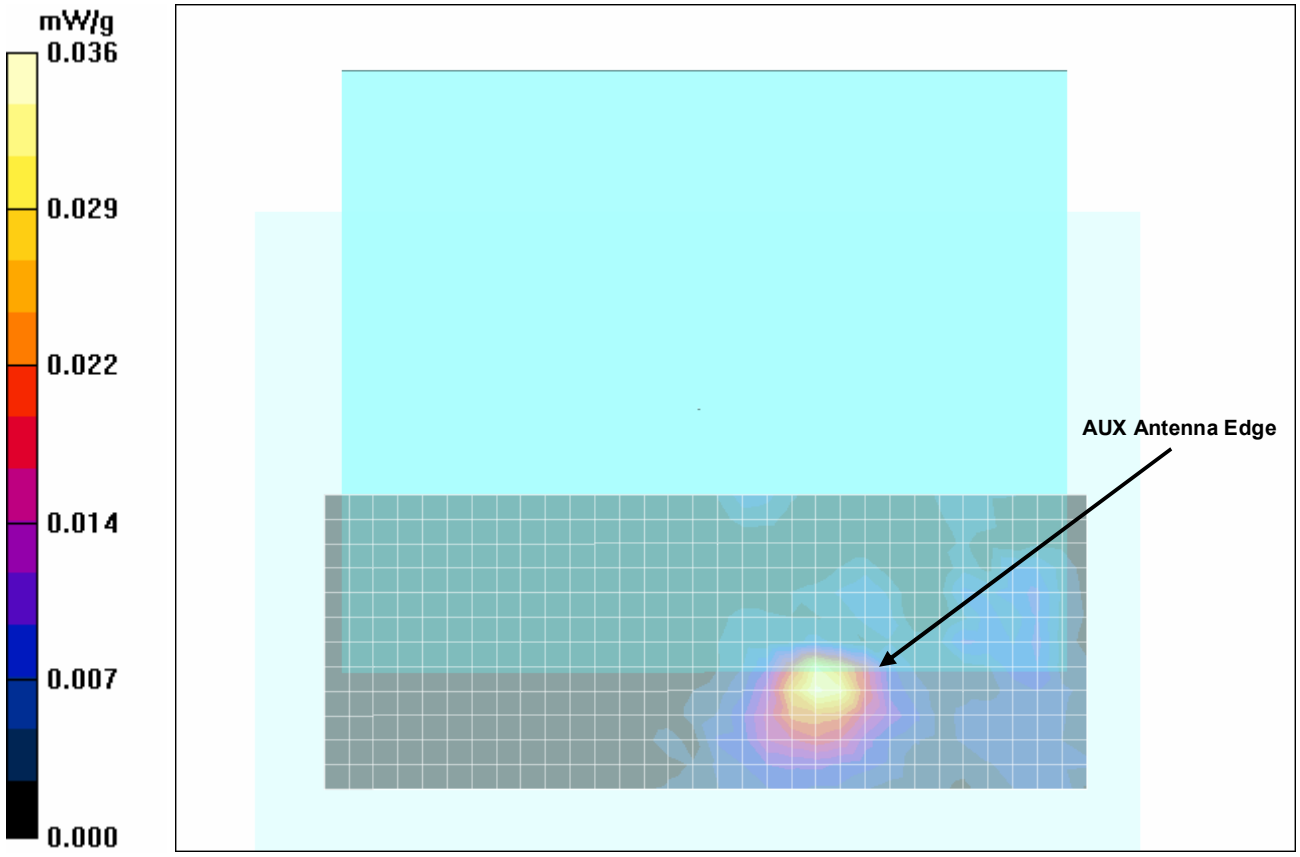
DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

Ambient Temp: 25.0°C; Fluid Temp: 23.7°C; Barometric Pressure: 101.2 kPa; Humidity: 33%

Communication System: DSSS WLAN
Frequency: 2412 MHz; Duty Cycle: 1:1
RF Output Power: 17.0 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M2450 Medium parameters used: f = 2412 MHz; σ = 1.98 mho/m; ε_r = 50.5; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(7.53, 7.53, 7.53); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - AUX Antenna - Channel 1 - 2412 MHz
Area Scan (13x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - AUX Antenna - Channel 1 - 2412 MHz
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.68 V/m; Power Drift = -0.0240 dB
Peak SAR (extrapolated) = 0.049 W/kg
SAR(1 g) = 0.0250 mW/g; SAR(10 g) = 0.013 mW/g
Maximum value of SAR (measured) = 0.036 mW/g



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Date Tested: 11/27/2006

Body SAR - 802.11b - 1 Mbps - 2462 MHz - Channel 11 - MAIN Antenna Edge of DUT - MAIN Antenna Simultaneous Transmit with Co-located Bluetooth

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

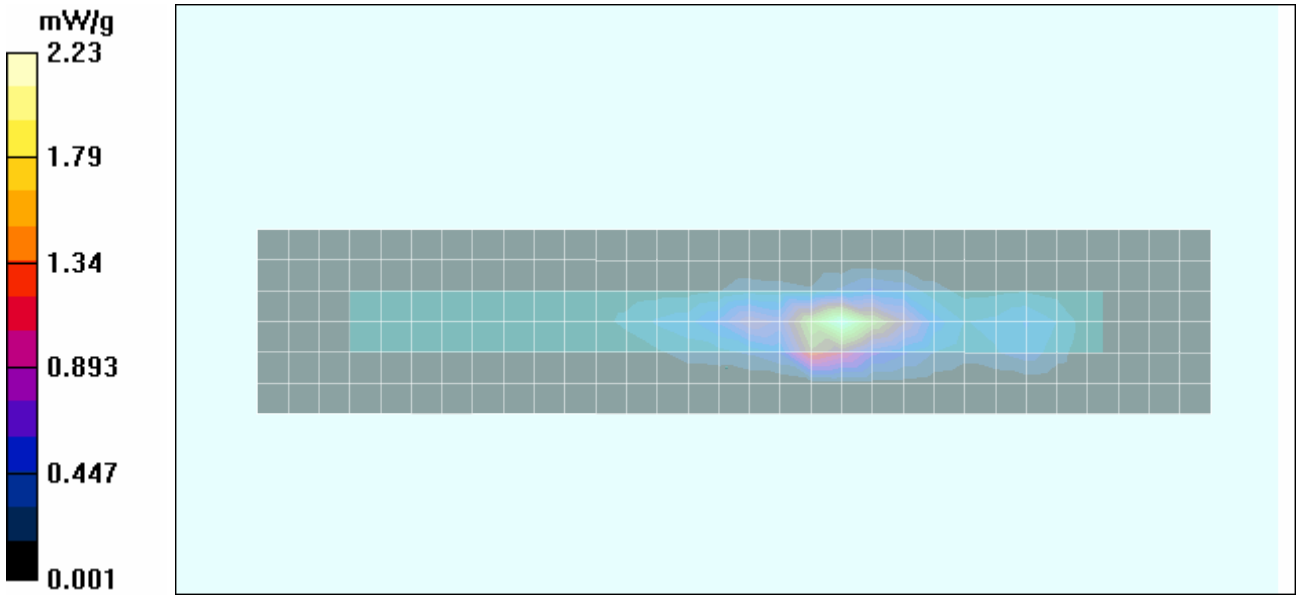
Ambient Temp: 25.0°C; Fluid Temp: 23.7°C; Barometric Pressure: 101.2 kPa; Humidity: 33%

Communication System: DSSS WLAN
Frequency: 2462 MHz; Duty Cycle: 1:1
RF Output Power: 16.5 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
RF Output Power: -0.97 dBm (Conducted) Bluetooth
Communication System: Modulated Fixed Frequency (Bluetooth)
Frequency: 2441 MHz; Duty Cycle: 1:1 (Bluetooth)
Medium: M2450 Medium parameters used: f = 2462 MHz; σ = 1.98 mho/m; ε_r = 50.5; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(7.53, 7.53, 7.53); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 11 - 2462 MHz
Area Scan (7x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 11 - 2462 MHz
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.1 V/m; Power Drift = 0.161 dB
Peak SAR (extrapolated) = 3.25 W/kg
SAR(1 g) = 1.30 mW/g; SAR(10 g) = 0.521 mW/g
Maximum value of SAR (measured) = 2.23 mW/g



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Date Tested: 11/27/2006

Body SAR - 802.11b - 1 Mbps - 2462 MHz - Channel 11 - MAIN Antenna Edge of DUT - MAIN Antenna Simultaneous Transmit with Co-located Bluetooth

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

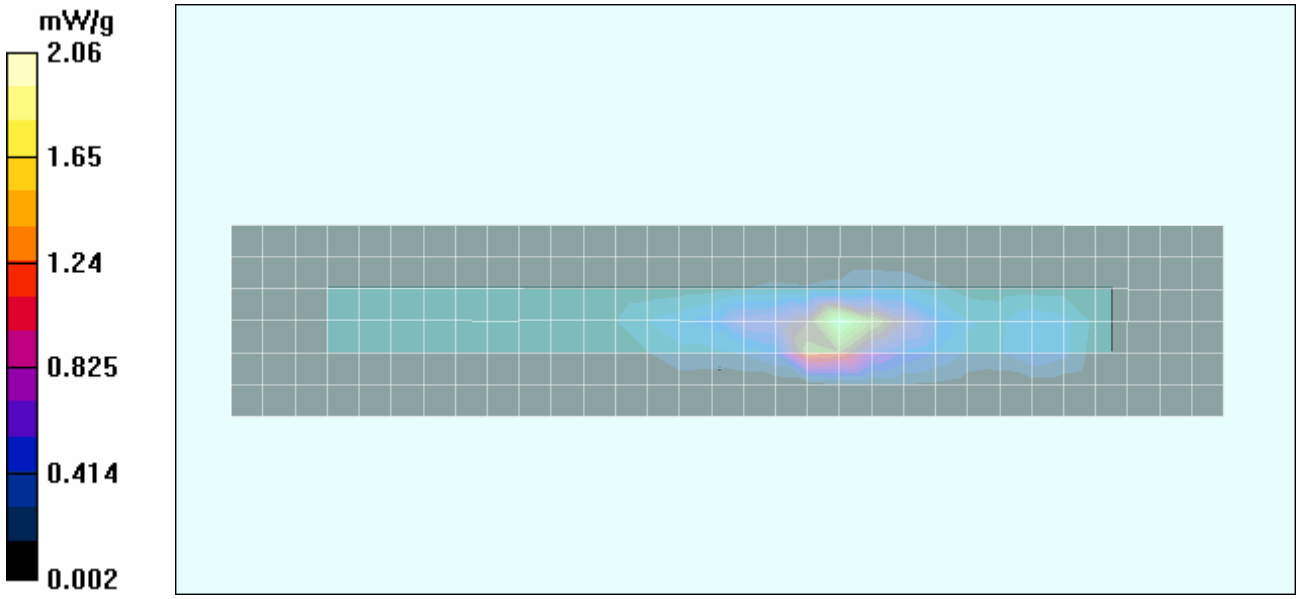
Ambient Temp: 25.0°C; Fluid Temp: 23.7°C; Barometric Pressure: 101.2 kPa; Humidity: 33%

Communication System: DSSS WLAN
Frequency: 2462 MHz; Duty Cycle: 1:1
RF Output Power: 16.5 dBm (Conducted)
14.8 V Extended Li-ion Battery (Model: BATEDX20L8)
RF Output Power: -0.97 dBm (Conducted) Bluetooth
Communication System: Modulated Fixed Frequency (Bluetooth)
Frequency: 2441 MHz; Duty Cycle: 1:1 (Bluetooth)
Medium: M2450 Medium parameters used: f = 2462 MHz; σ = 1.98 mho/m; ε_r = 50.5; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(7.53, 7.53, 7.53); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 11 - 2462 MHz
Area Scan (7x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 11 - 2462 MHz
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.2 V/m; Power Drift = 0.0110 dB
Peak SAR (extrapolated) = 3.15 W/kg
SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.489 mW/g
Maximum value of SAR (measured) = 2.06 mW/g



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Date Tested: 11/16/2006

Body SAR - 802.11a - 6 Mbps - 5200 MHz - Channel 40 - MAIN Antenna Edge of DUT - MAIN Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

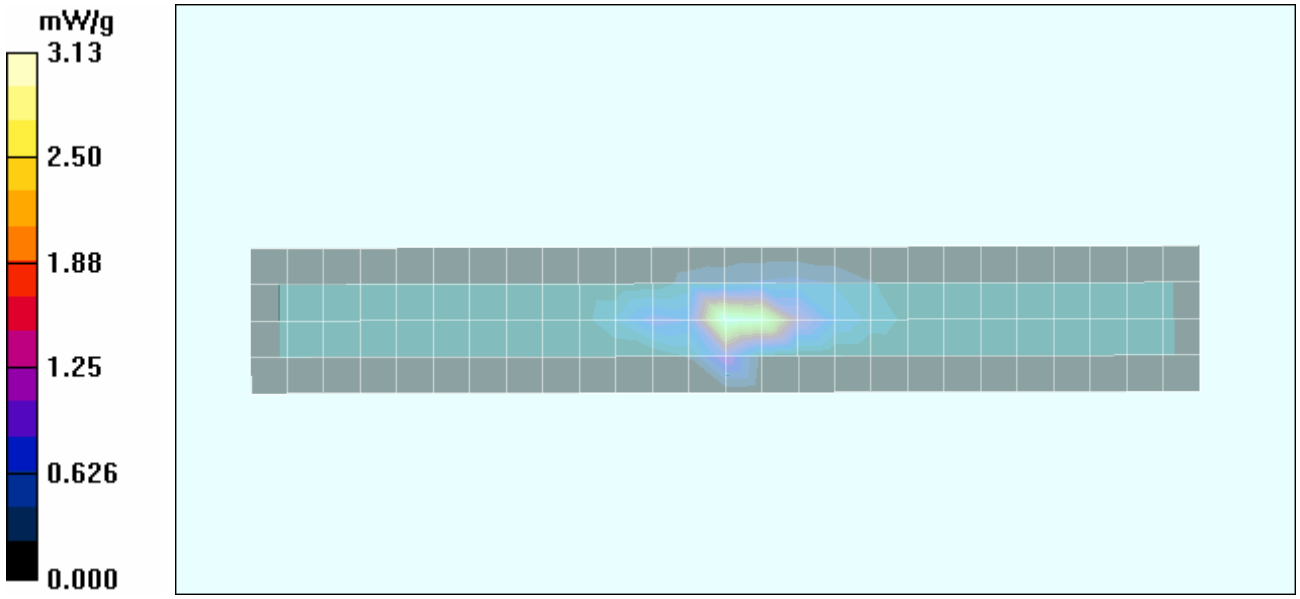
Ambient Temp: 23.0°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 32%

Communication System: OFDM WLAN
Frequency: 5200 MHz; Duty Cycle: 1:1
RF Output Power: 15.5 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5200 MHz; σ = 5.08 mho/m; ε_r = 44.3; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.87, 4.87, 4.87); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 40 - 5200 MHz
Area Scan (5x27x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 40 - 5200 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 17.2 V/m; Power Drift = -0.0090 dB
Peak SAR (extrapolated) = 7.26 W/kg
SAR(1 g) = 1.49 mW/g; SAR(10 g) = 0.410 mW/g
Maximum value of SAR (measured) = 3.13 mW/g



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Date Tested: 11/21/2006

Body SAR - 802.11a - 6 Mbps - 5200 MHz - Channel 40 - AUX Antenna Edge of DUT - AUX Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

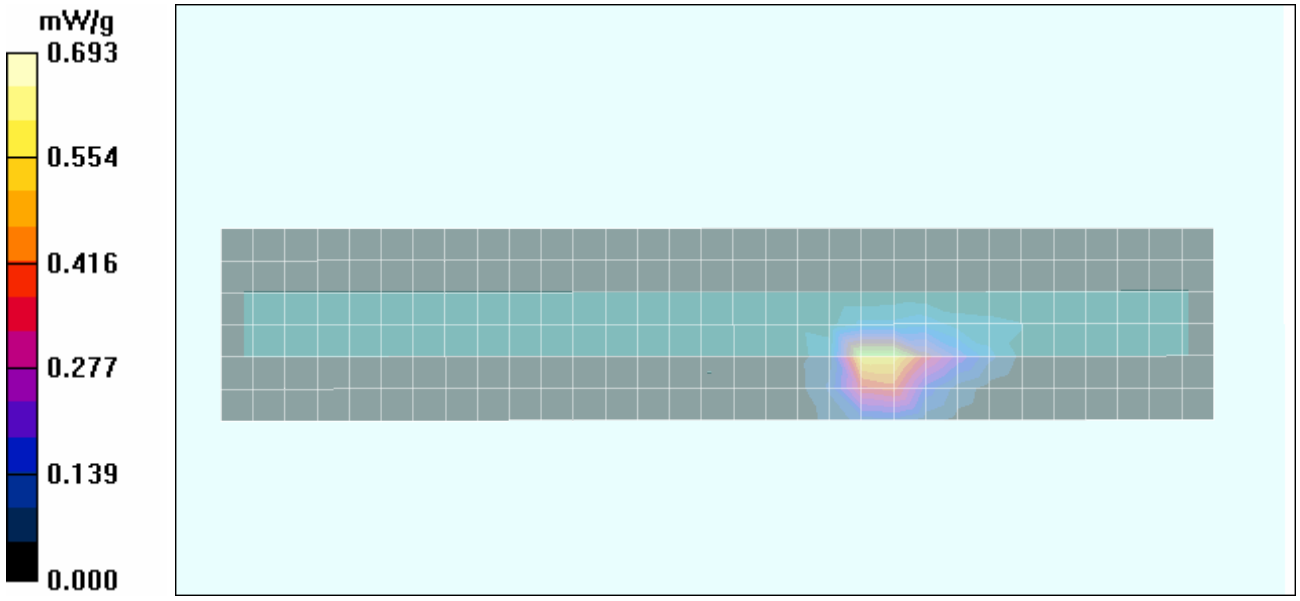
Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5200 MHz; Duty Cycle: 1:1
RF Output Power: 15.5 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5200 MHz; σ = 5.11 mho/m; ε_r = 49.7; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.87, 4.87, 4.87); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 40 - 5200 MHz
Area Scan (7x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 40 - 5200 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 12.1 V/m; Power Drift = 0.0720 dB
Peak SAR (extrapolated) = 1.37 W/kg
SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.110 mW/g
Maximum value of SAR (measured) = 0.693 mW/g



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Date Tested: 11/16/2006

Body SAR - 802.11a - 6 Mbps - 5240 MHz - Channel 48 - MAIN Antenna Edge of DUT - MAIN Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

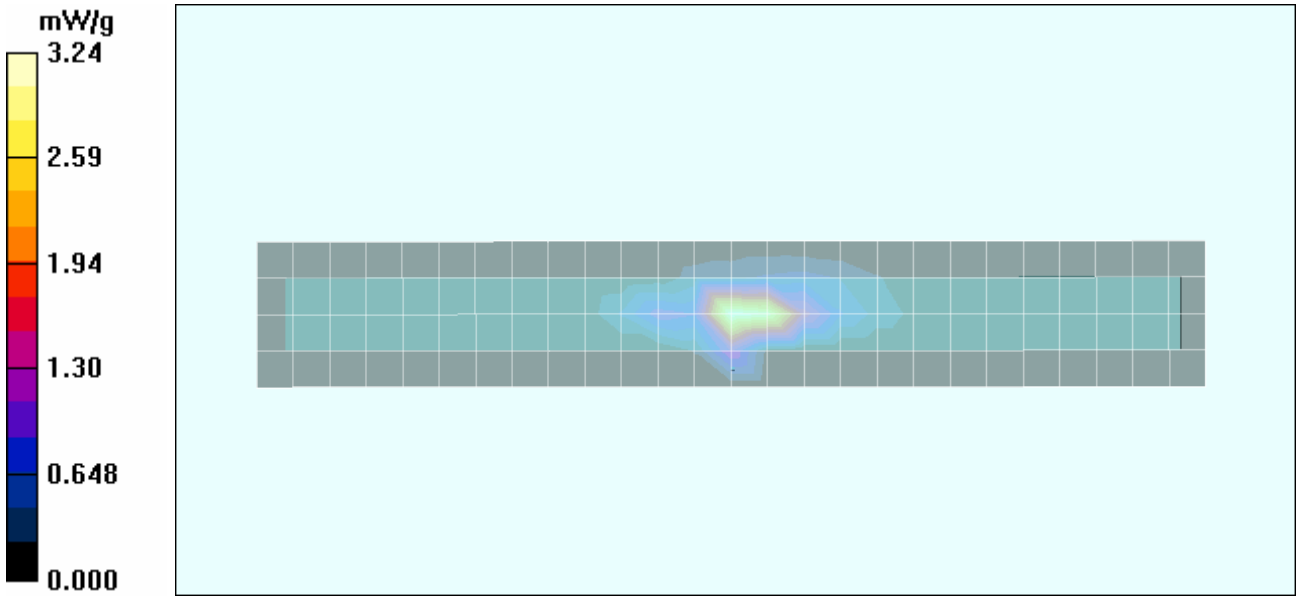
Ambient Temp: 23.0°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 32%

Communication System: OFDM WLAN
Frequency: 5240 MHz; Duty Cycle: 1:1
RF Output Power: 14.8 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5240 MHz; σ = 5.10 mho/m; ε_r = 44.4; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.87, 4.87, 4.87); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 48 - 5240 MHz
Area Scan (5x27x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 48 - 5240 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 17.1 V/m; Power Drift = 0.0810 dB
Peak SAR (extrapolated) = 7.03 W/kg
SAR(1 g) = 1.49 mW/g; SAR(10 g) = 0.405 mW/g
Maximum value of SAR (measured) = 3.24 mW/g



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Date Tested: 11/21/2006

Body SAR - 802.11a - 6 Mbps - 5200 MHz - Channel 40 - Bottom Side of DUT - MAIN Antenna

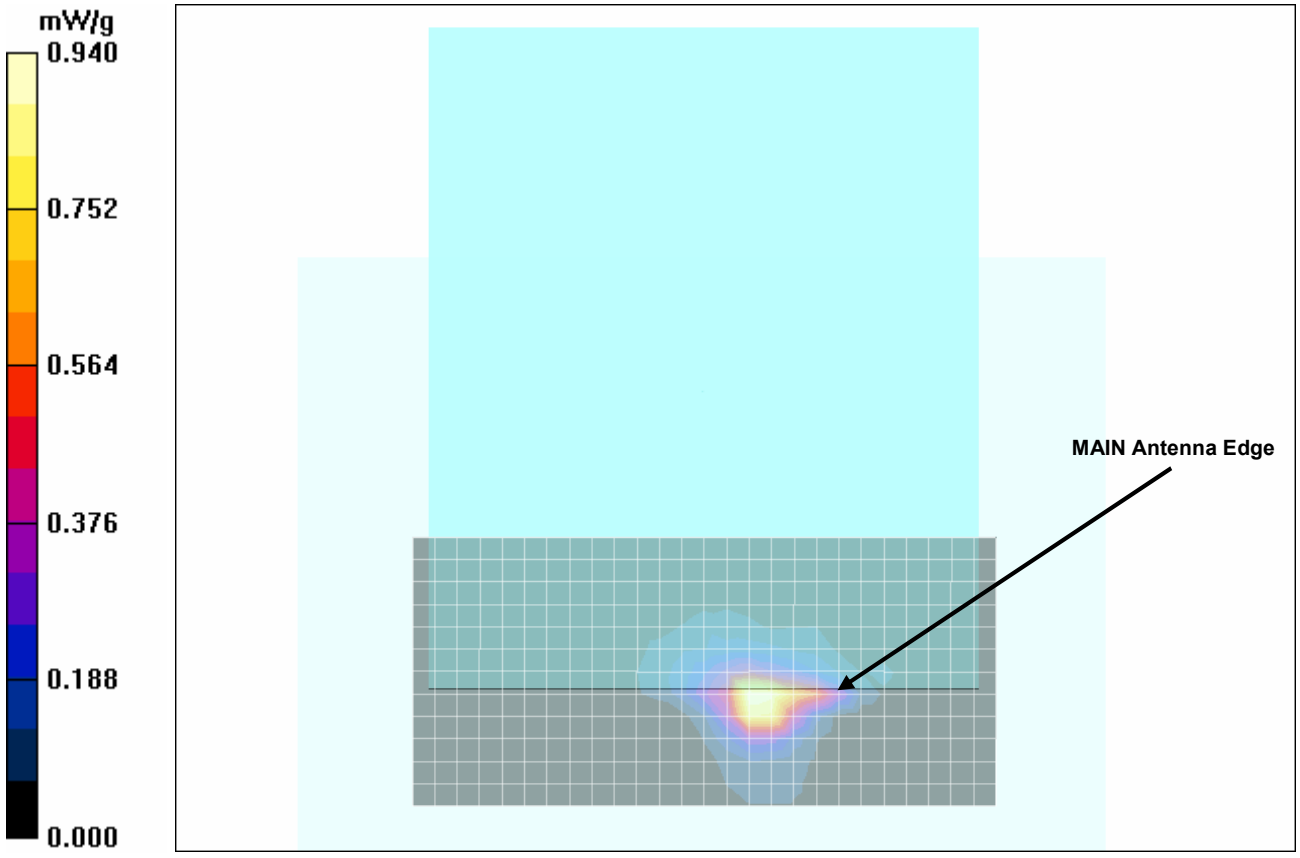
DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5200 MHz; Duty Cycle: 1:1
RF Output Power: 15.5 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5200 MHz; σ = 5.11 mho/m; ε_r = 49.7; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(4.87, 4.87, 4.87); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - MAIN Antenna - Channel 40 - 5200 MHz
Area Scan (13x27x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - MAIN Antenna - Channel 40 - 5200 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 8.24 V/m; Power Drift = 0.0204 dB
Peak SAR (extrapolated) = 1.95 W/kg
SAR(1 g) = 0.474 mW/g; SAR(10 g) = 0.154 mW/g
Maximum value of SAR (measured) = 0.940 mW/g



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Date Tested: 11/21/2006

Body SAR - 802.11a - 6 Mbps - 5200 MHz - Channel 40 - Bottom Side of DUT - AUX Antenna

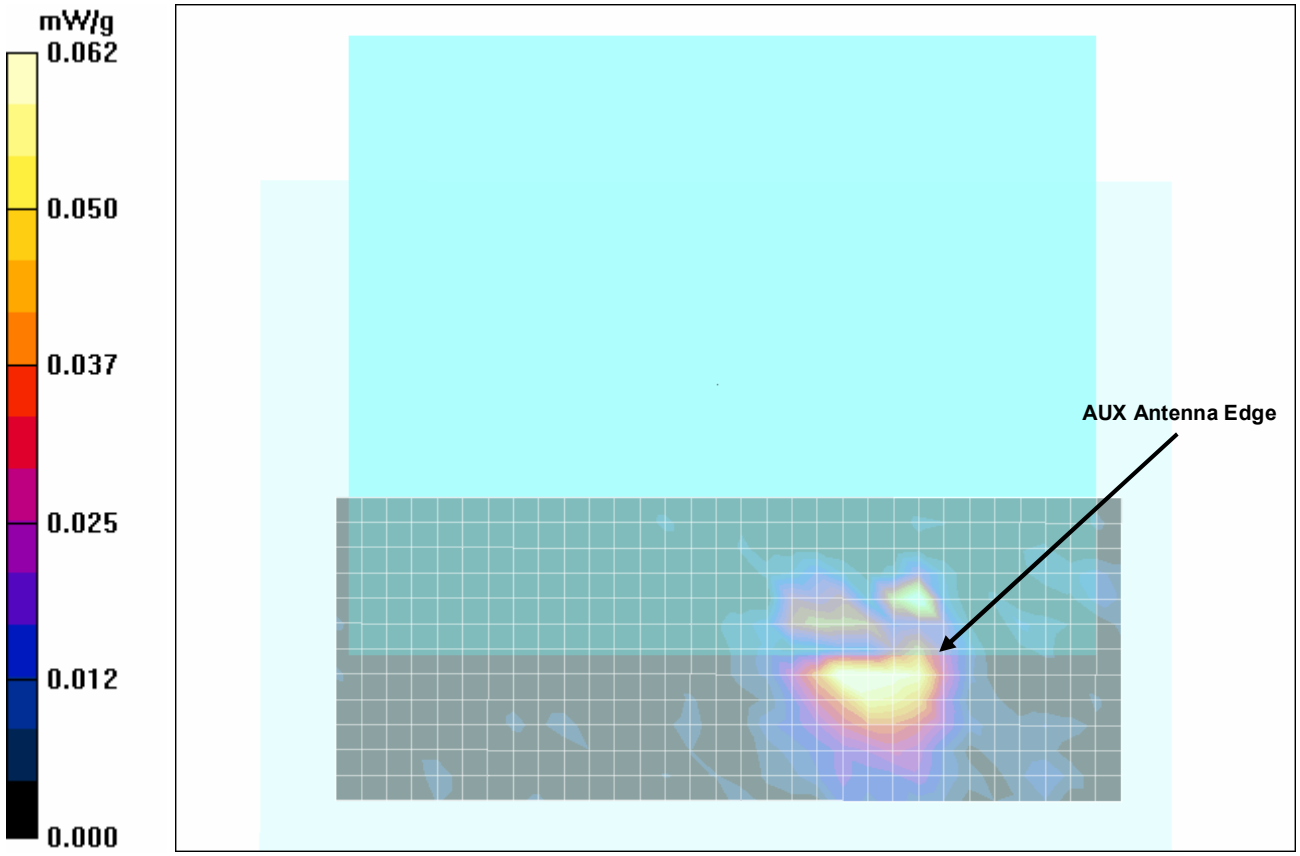
DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5200 MHz; Duty Cycle: 1:1
RF Output Power: 15.5 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5200 MHz; σ = 5.11 mho/m; ε_r = 49.7; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(4.87, 4.87, 4.87); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - AUX Antenna - Channel 40 - 5200 MHz
Area Scan (13x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - AUX Antenna - Channel 40 - 5200 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.28 V/m; Power Drift = 0.170 dB
Peak SAR (extrapolated) = 0.153 W/kg
SAR(1 g) = 0.0242 mW/g; SAR(10 g) = 0.00564 mW/g
Maximum value of SAR (measured) = 0.062 mW/g



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Date Tested: 11/16/2006

Body SAR - 802.11a - 6 Mbps - 5260 MHz - Channel 52 - MAIN Antenna Edge of DUT - MAIN Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

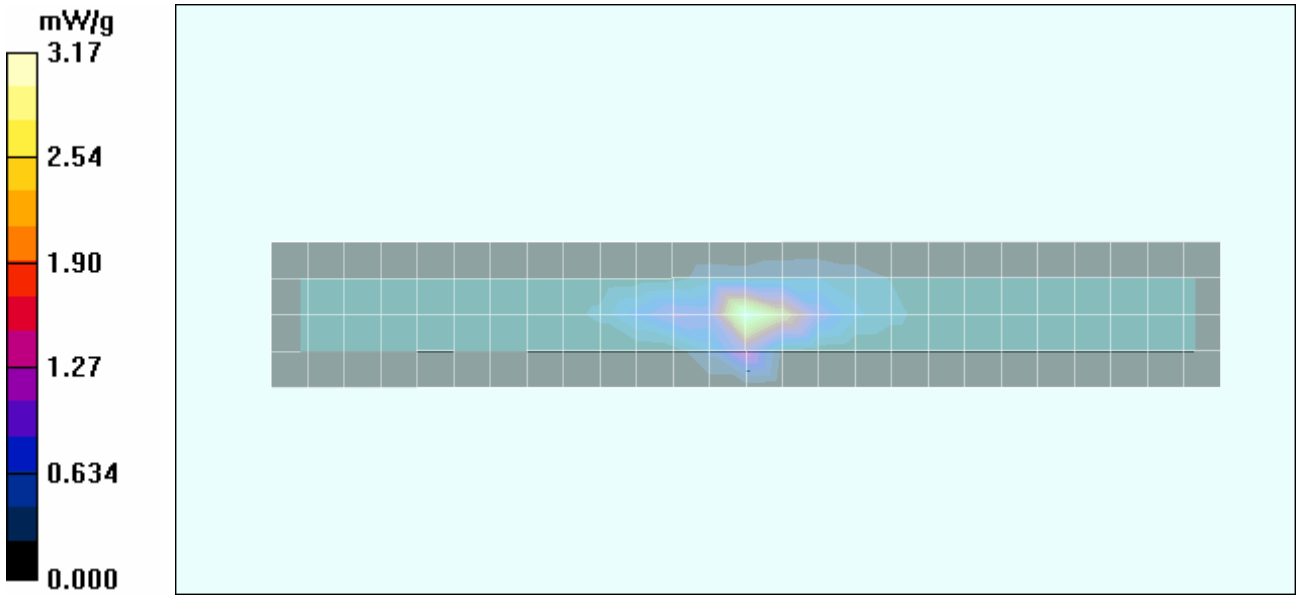
Ambient Temp: 23.0°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 32%

Communication System: OFDM WLAN
Frequency: 5260 MHz; Duty Cycle: 1:1
RF Output Power: 14.0 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5260 MHz; σ = 5.10 mho/m; ε_r = 44.4; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.87, 4.87, 4.87); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 52 - 5260 MHz
Area Scan (5x27x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 52 - 5260 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 16.8 V/m; Power Drift = 0.0830 dB
Peak SAR (extrapolated) = 7.10 W/kg
SAR(1 g) = 1.48 mW/g; SAR(10 g) = 0.399 mW/g
Maximum value of SAR (measured) = 3.17 mW/g



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Date Tested: 11/21/2006

Body SAR - 802.11a - 6 Mbps - 5260 MHz - Channel 52 - AUX Antenna Edge of DUT - AUX Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

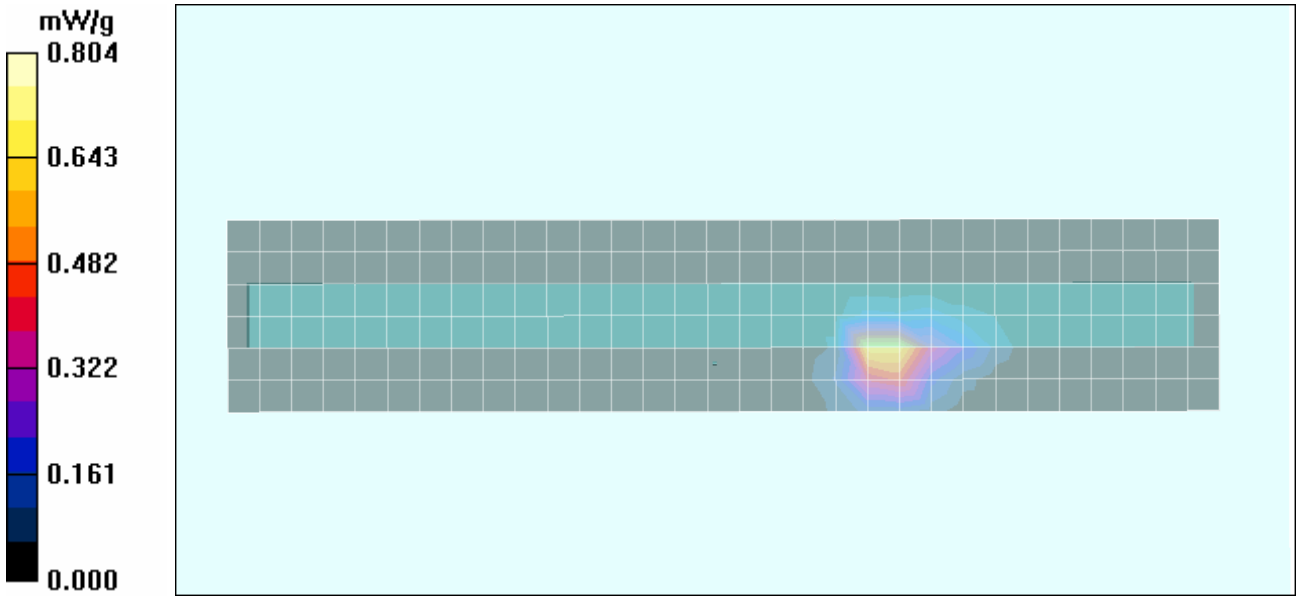
Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5260 MHz; Duty Cycle: 1:1
RF Output Power: 14.0 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5260 MHz; σ = 5.11 mho/m; ε_r = 49.6; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.87, 4.87, 4.87); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 52 - 5260 MHz
Area Scan (7x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 52 - 5260 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 13.0 V/m; Power Drift = -0.0887 dB
Peak SAR (extrapolated) = 1.58 W/kg
SAR(1 g) = 0.396 mW/g; SAR(10 g) = 0.124 mW/g
Maximum value of SAR (measured) = 0.804 mW/g



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Date Tested: 11/21/2006

Body SAR - 802.11a - 6 Mbps - 5300 MHz - Channel 60 - MAIN Antenna Edge of DUT - MAIN Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

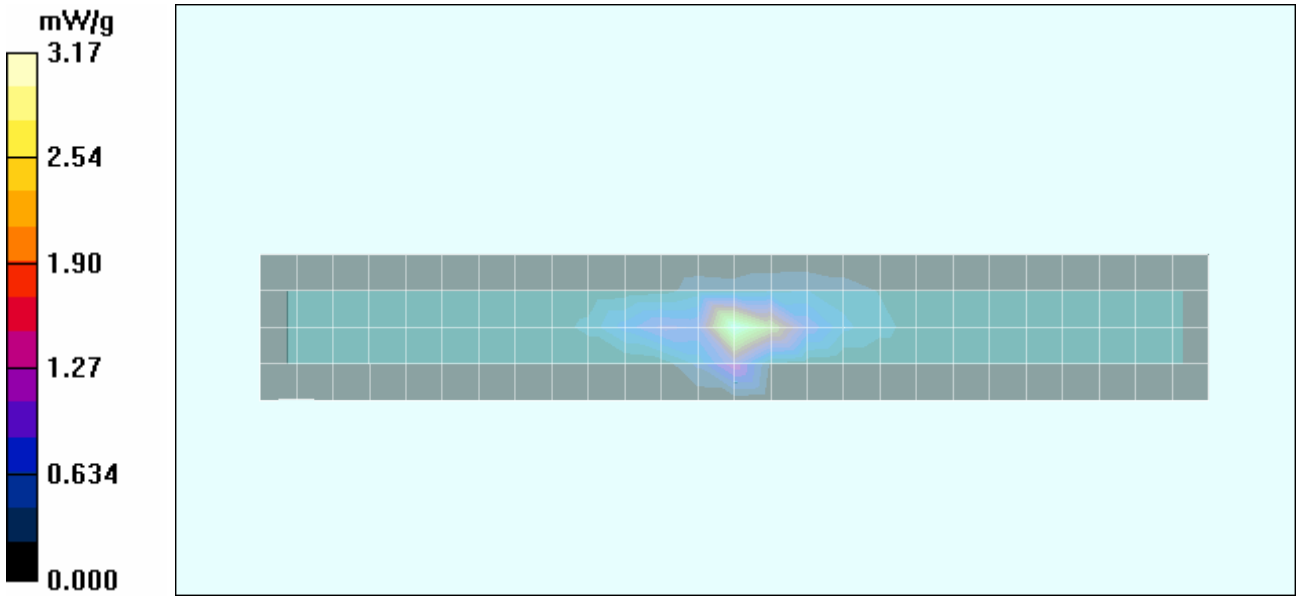
Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1 kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5300 MHz; Duty Cycle: 1:1
RF Output Power: 12.6 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5300 MHz; σ = 5.27 mho/m; ε_r = 49.7; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.87, 4.87, 4.87); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 60 - 5300 MHz
Area Scan (5x27x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 60 - 5300 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 16.5 V/m; Power Drift = 0.0050 dB
Peak SAR (extrapolated) = 7.05 W/kg
SAR(1 g) = 1.57 mW/g; SAR(10 g) = 0.416 mW/g
Maximum value of SAR (measured) = 3.17 mW/g



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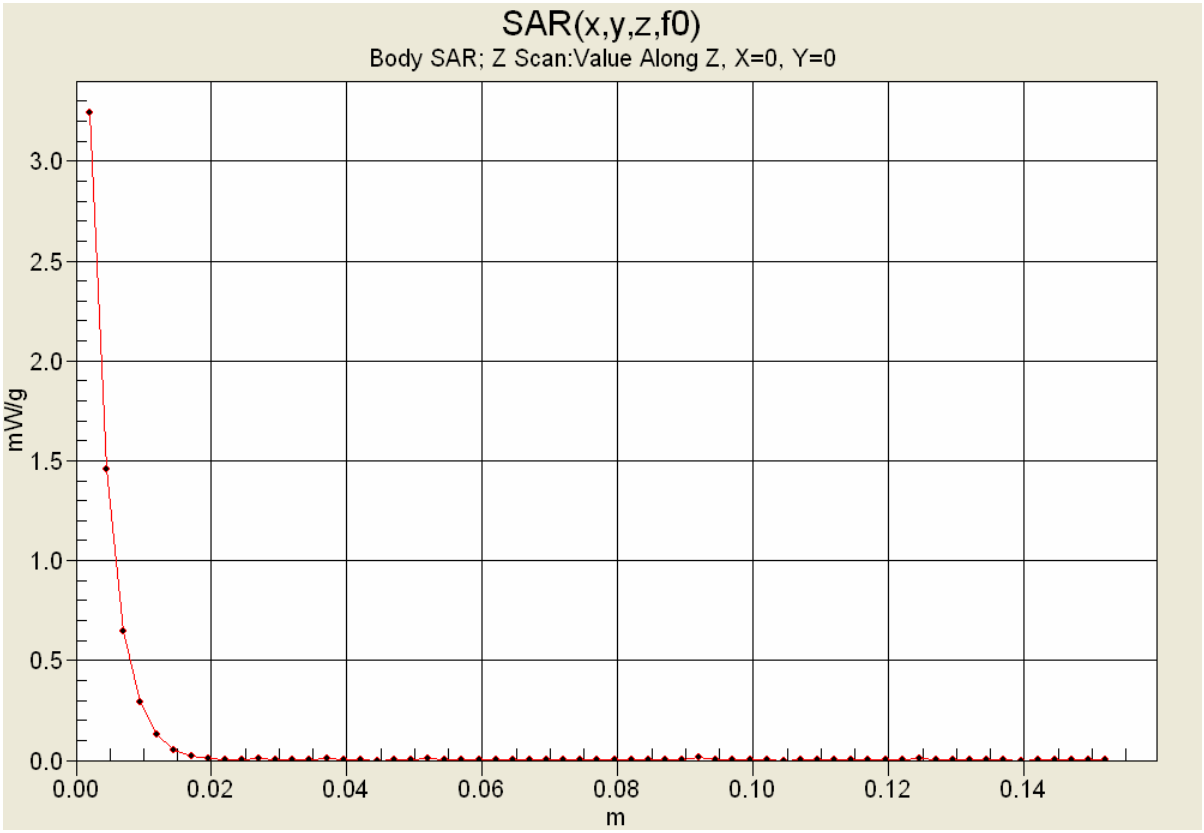
Z-Axis Scan



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Date Tested: 11/21/2006

Body SAR - 802.11a - 6 Mbps - 5260 MHz - Channel 52 - Bottom Side of DUT - MAIN Antenna

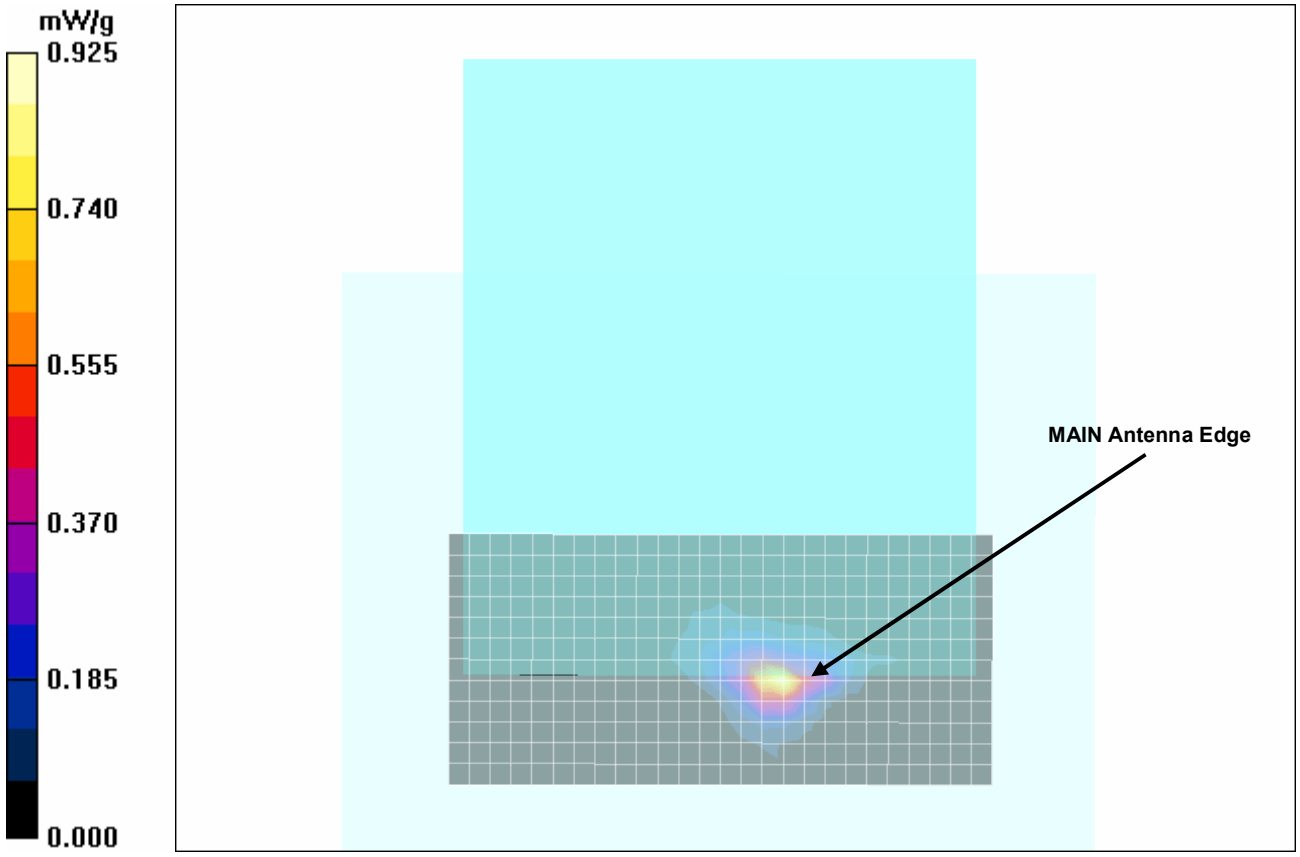
DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5260 MHz; Duty Cycle: 1:1
RF Output Power: 14.0 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5260 MHz; σ = 5.11 mho/m; ε_r = 49.6; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(4.87, 4.87, 4.87); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - MAIN Antenna - Channel 52 - 5260 MHz
Area Scan (13x27x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - MAIN Antenna - Channel 52 - 5260 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 9.48 V/m; Power Drift = -0.0119 dB
Peak SAR (extrapolated) = 2.04 W/kg
SAR(1 g) = 0.492 mW/g; SAR(10 g) = 0.160 mW/g
Maximum value of SAR (measured) = 0.925 mW/g



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Date Tested: 11/21/2006

Body SAR - 802.11a - 6 Mbps - 5260 MHz - Channel 52 - Bottom Side of DUT - AUX Antenna

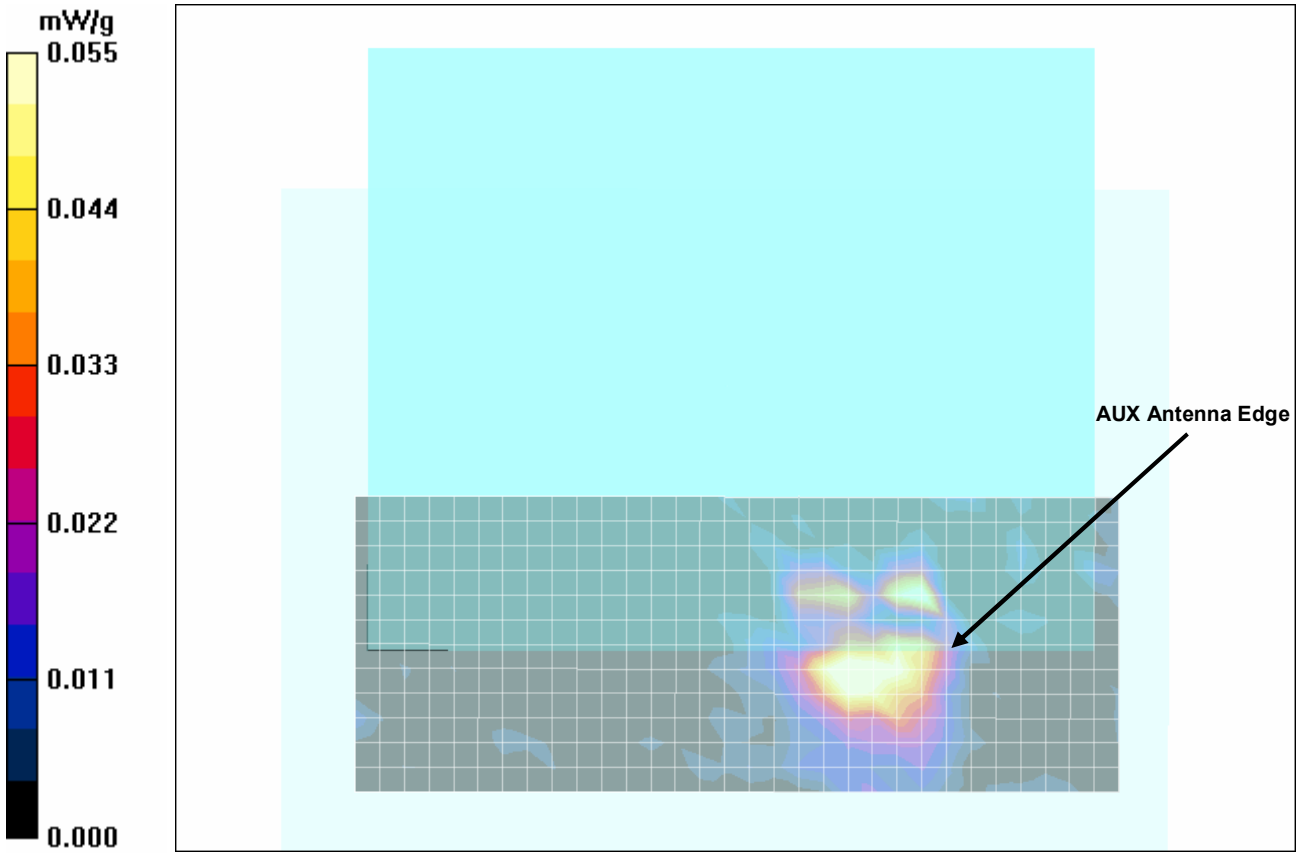
DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5260 MHz; Duty Cycle: 1:1
RF Output Power: 14.0 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5260 MHz; σ = 5.11 mho/m; ε_r = 49.6; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(4.87, 4.87, 4.87); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - AUX Antenna - Channel 52 - 5260 MHz
Area Scan (13x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - AUX Antenna - Channel 52 - 5260 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 2.61 V/m; Power Drift = -0.0312 dB
Peak SAR (extrapolated) = 0.124 W/kg
SAR(1 g) = 0.0243 mW/g; SAR(10 g) = 0.00789 mW/g
Maximum value of SAR (measured) = 0.055 mW/g



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Date Tested: 11/16/2006

Body SAR - 802.11a - 6 Mbps - 5700 MHz - Channel 140 - MAIN Antenna Edge of DUT - MAIN Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

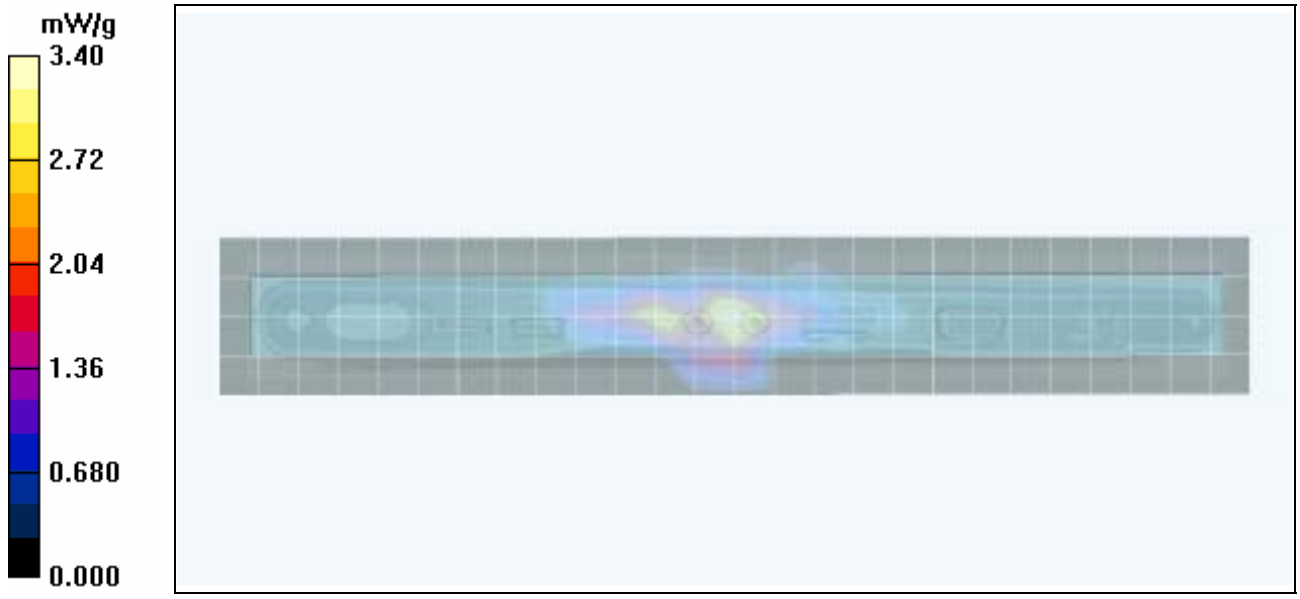
Ambient Temp: 23.0°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 32%

Communication System: OFDM WLAN
Frequency: 5700 MHz; Duty Cycle: 1:1
RF Output Power: 12.2 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5700 MHz; σ = 5.73 mho/m; ε_r = 45.9; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.69, 4.69, 4.69); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 140 - 5700 MHz
Area Scan (5x27x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 140 - 5700 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 15.5 V/m; Power Drift = 0.00629 dB
Peak SAR (extrapolated) = 7.83 W/kg
SAR(1 g) = 1.63 mW/g; SAR(10 g) = 0.393 mW/g
Maximum value of SAR (measured) = 3.40 mW/g



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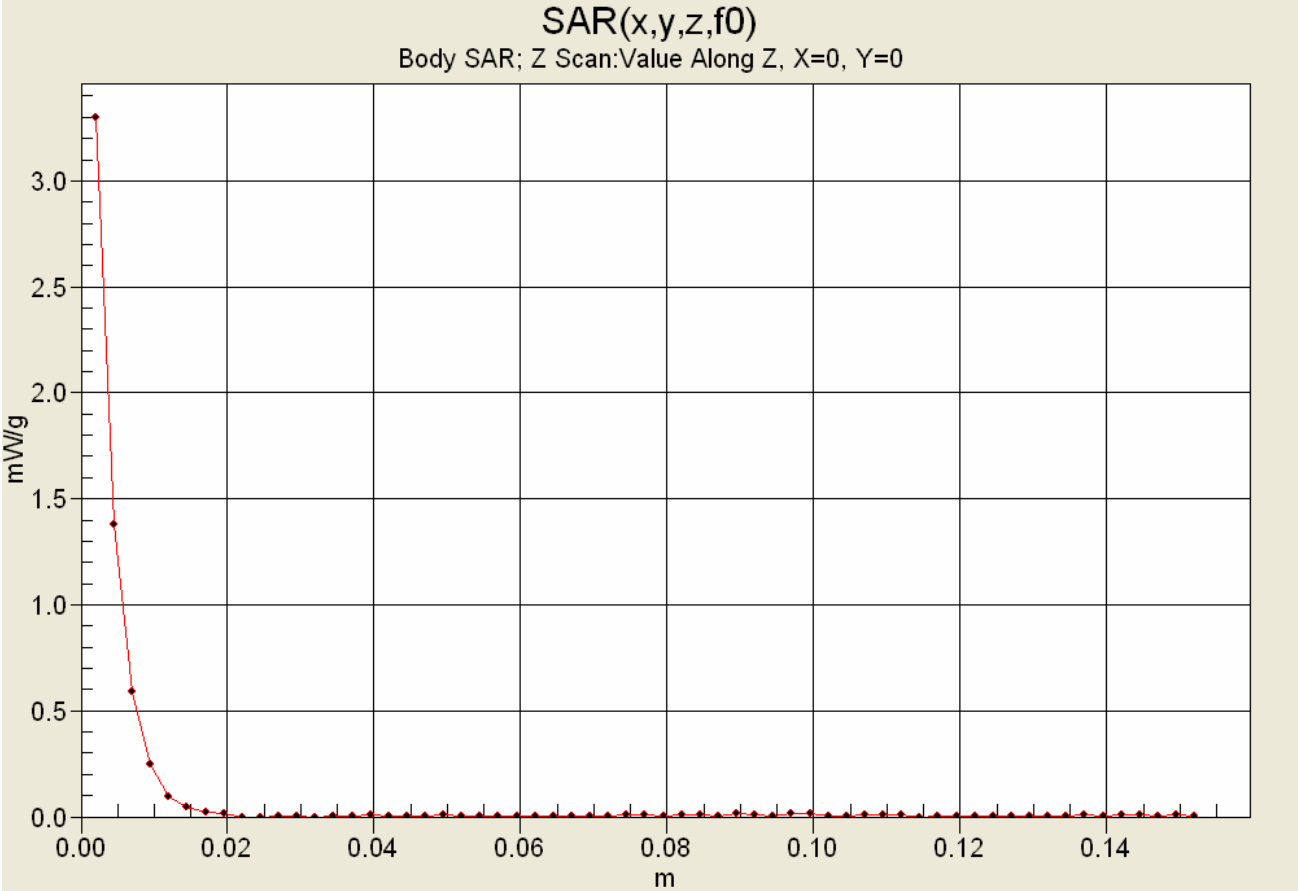
Z-Axis Scan



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Date Tested: 11/16/2006

Body SAR - 802.11a - 6 Mbps - 5520 MHz - Channel 104 - MAIN Antenna Edge of DUT - MAIN Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

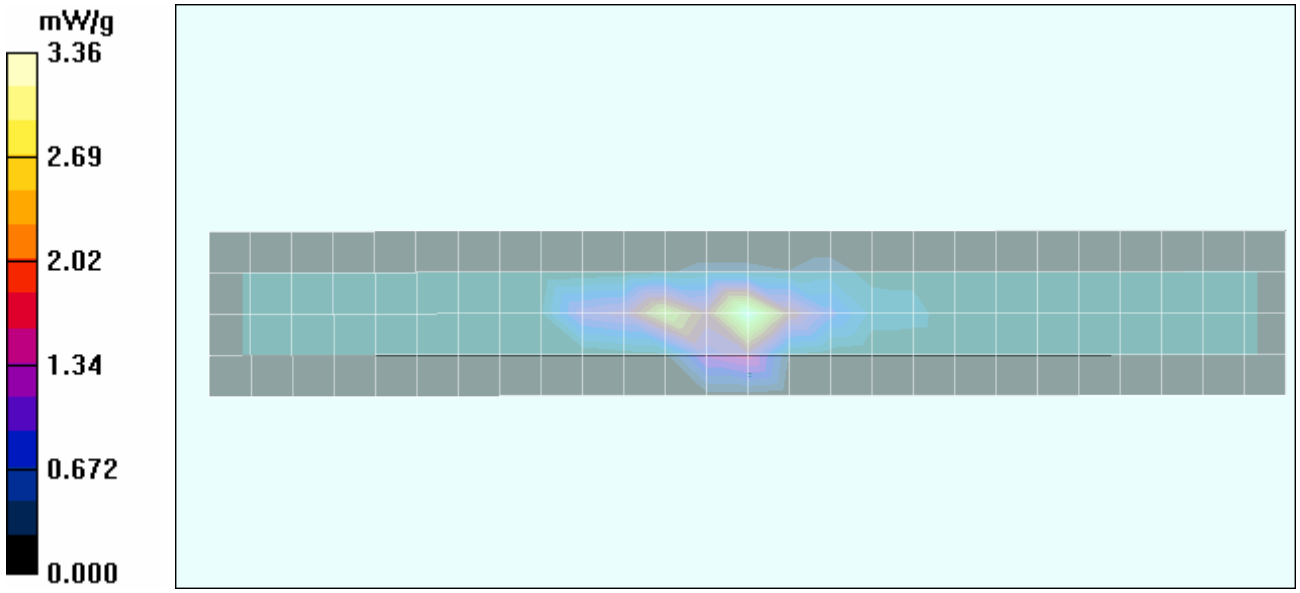
Ambient Temp: 23.0°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 32%

Communication System: OFDM WLAN
Frequency: 5520 MHz; Duty Cycle: 1:1
RF Output Power: 9.8 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5520 MHz; σ = 5.55 mho/m; ε_r = 46.0; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.57, 4.57, 4.57); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 104 - 5520 MHz
Area Scan (5x27x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 104 - 5520 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 14.7 V/m; Power Drift = 0.117 dB
Peak SAR (extrapolated) = 7.33 W/kg
SAR(1 g) = 1.54 mW/g; SAR(10 g) = 0.397 mW/g
Maximum value of SAR (measured) = 3.36 mW/g



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Date Tested: 11/16/2006

Body SAR - 802.11a - 6 Mbps - 5600 MHz - Channel 120 - MAIN Antenna Edge of DUT - MAIN Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

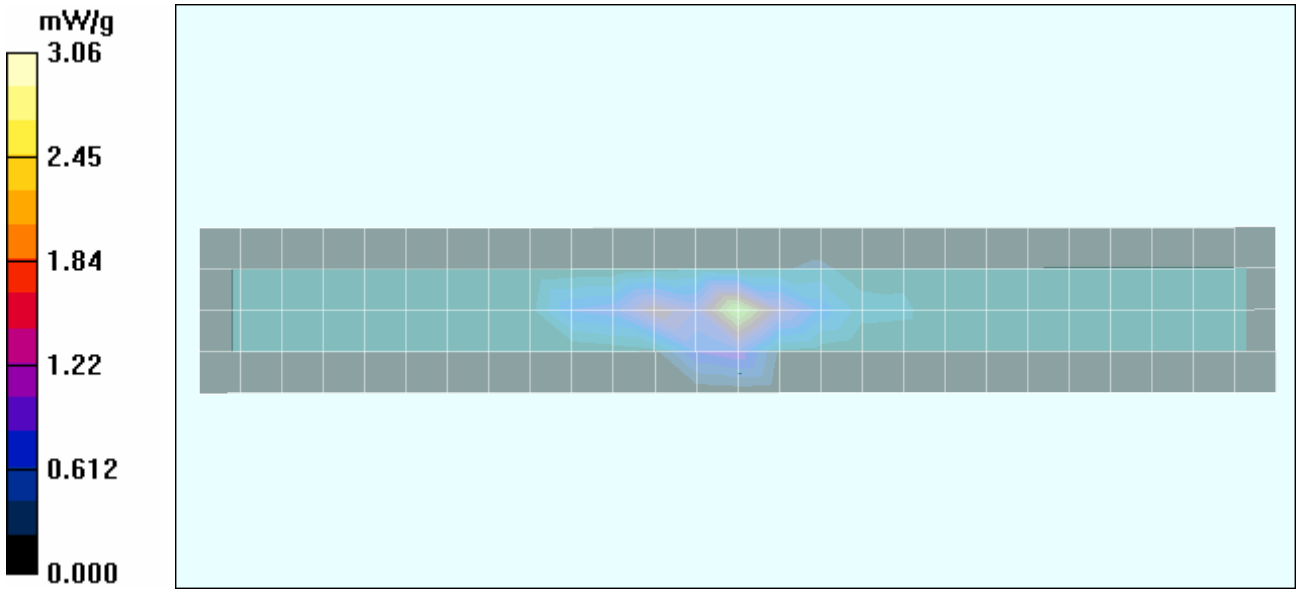
Ambient Temp: 23.0°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 32%

Communication System: OFDM WLAN
Frequency: 5600 MHz; Duty Cycle: 1:1
RF Output Power: 10.8 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5600 MHz; σ = 5.70 mho/m; ε_r = 45.9; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.57, 4.57, 4.57); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 120 - 5600 MHz
Area Scan (5x27x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 120 - 5600 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 14.4 V/m; Power Drift = -0.0332 dB
Peak SAR (extrapolated) = 6.87 W/kg
SAR(1 g) = 1.45 mW/g; SAR(10 g) = 0.359 mW/g
Maximum value of SAR (measured) = 3.06 mW/g



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Date Tested: 11/22/2006

Body SAR - 802.11a - 6 Mbps - 5700 MHz - Channel 140 - AUX Antenna Edge of DUT - AUX Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

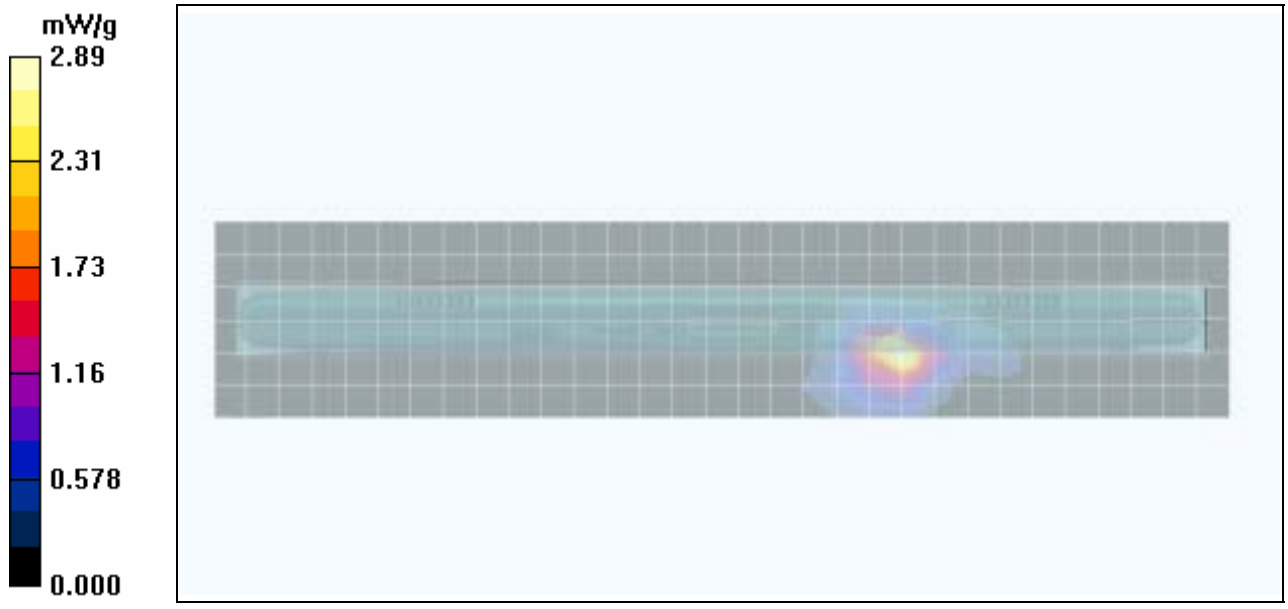
Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1 kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5700 MHz; Duty Cycle: 1:1
RF Output Power: 12.2 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5700 MHz; σ = 5.85 mho/m; ε_r = 45.5; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.69, 4.69, 4.69); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 140 - 5700 MHz
Area Scan (7x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 140 - 5700 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 21.2 V/m; Power Drift = 0.0626 dB
Peak SAR (extrapolated) = 6.59 W/kg
SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.401 mW/g
Maximum value of SAR (measured) = 2.89 mW/g



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Date Tested: 11/22/2006

Body SAR - 802.11a - 6 Mbps - 5520 MHz - Channel 104 - AUX Antenna Edge of DUT - AUX Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

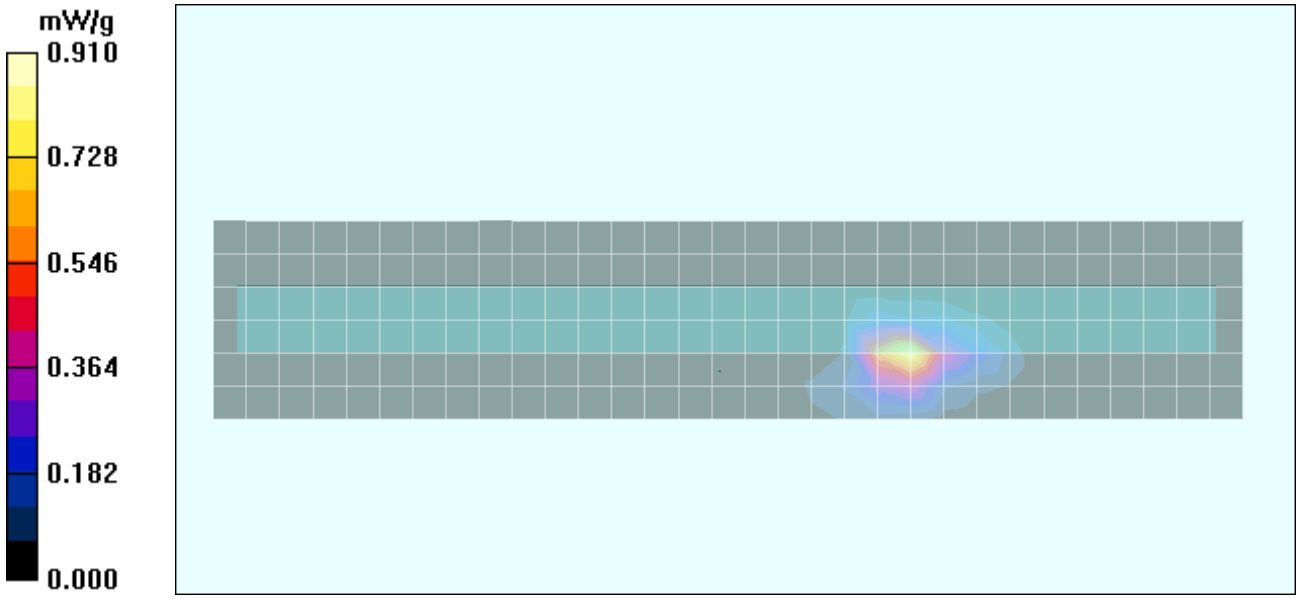
Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1 kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5520 MHz; Duty Cycle: 1:1
RF Output Power: 9.8 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5520 MHz; σ = 5.53 mho/m; ε_r = 45.7; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.57, 4.57, 4.57); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 104 - 5520 MHz
Area Scan (7x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 104 - 5520 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 12.7 V/m; Power Drift = 0.107 dB
Peak SAR (extrapolated) = 2.03 W/kg
SAR(1 g) = 0.417 mW/g; SAR(10 g) = 0.124 mW/g
Maximum value of SAR (measured) = 0.910 mW/g



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Date Tested: 11/22/2006

Body SAR - 802.11a - 6 Mbps - 5600 MHz - Channel 120 - AUX Antenna Edge of DUT - AUX Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

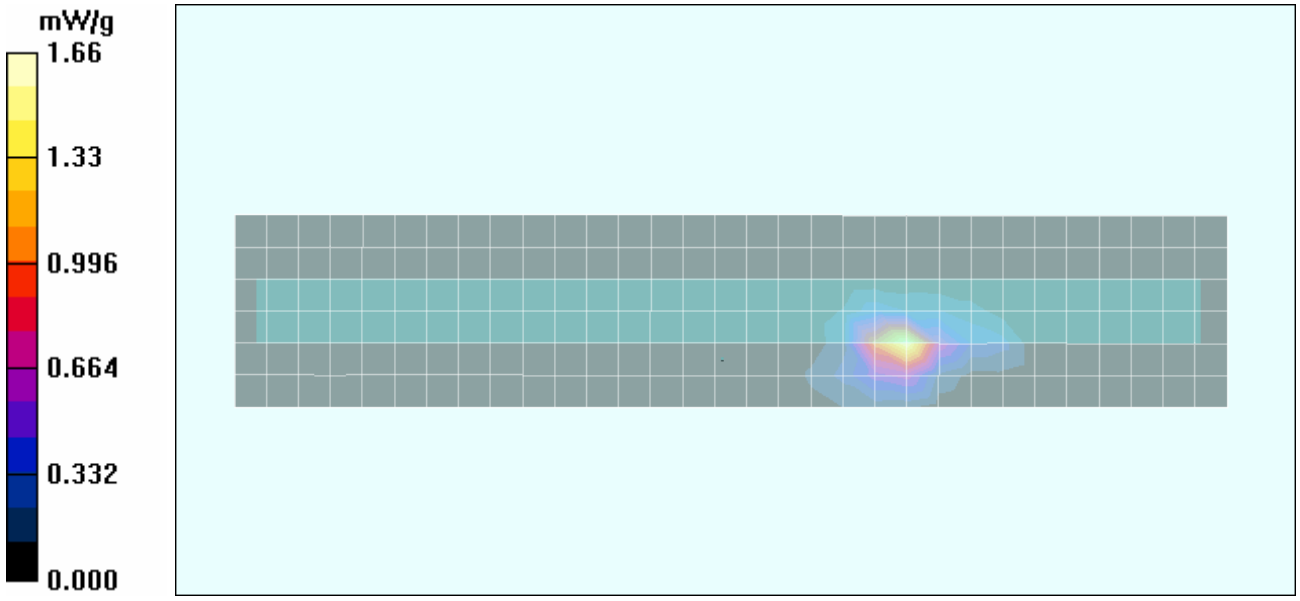
Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1 kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5600 MHz; Duty Cycle: 1:1
RF Output Power: 10.8 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5600 MHz; σ = 5.79 mho/m; ε_r = 45.7; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.57, 4.57, 4.57); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 120 - 5600 MHz
Area Scan (7x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 120 - 5600 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 16.3 V/m; Power Drift = -0.0248 dB
Peak SAR (extrapolated) = 3.64 W/kg
SAR(1 g) = 0.754 mW/g; SAR(10 g) = 0.226 mW/g
Maximum value of SAR (measured) = 1.66 mW/g



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Date Tested: 11/22/2006

Body SAR - 802.11a - 6 Mbps - 5700 MHz - Channel 140 - Bottom Side of DUT - MAIN Antenna

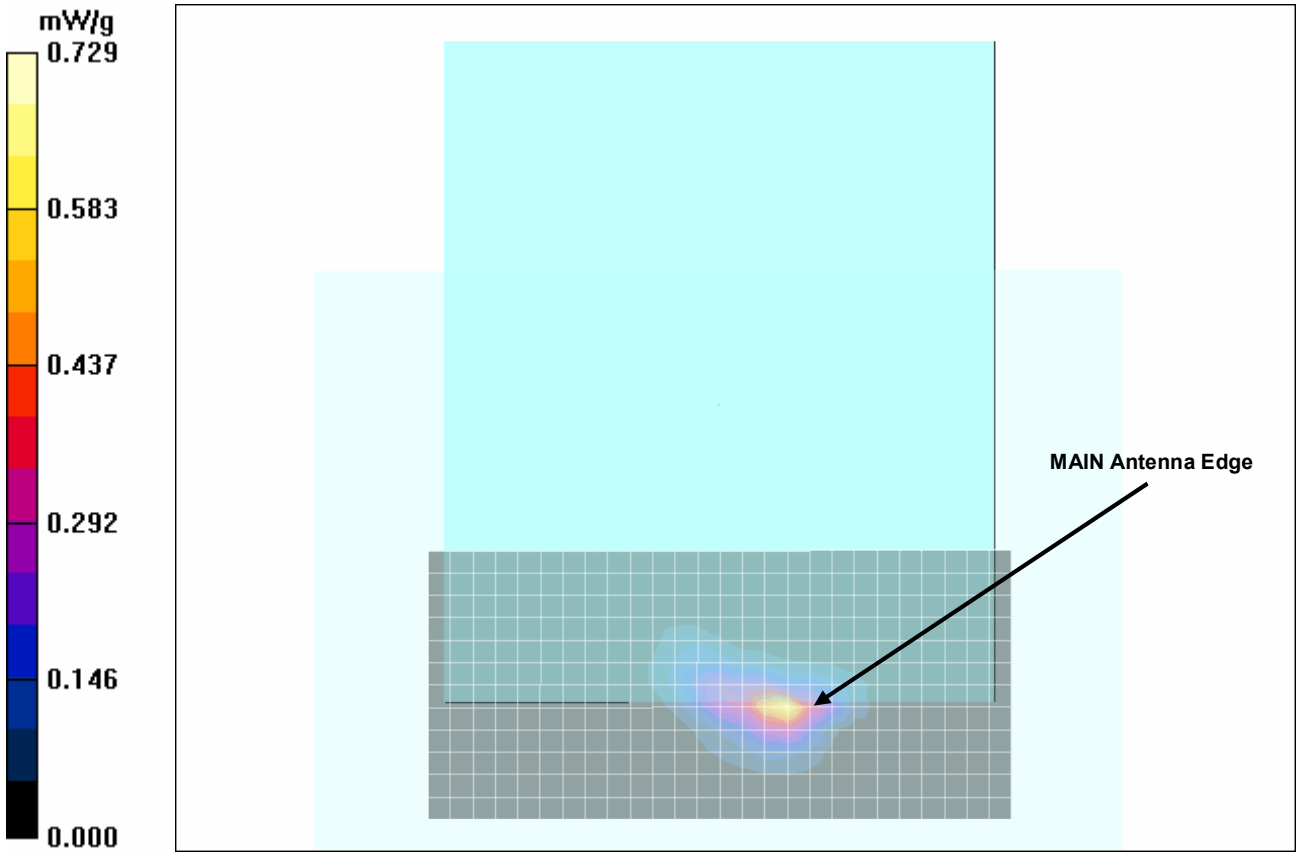
DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1 kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5700 MHz; Duty Cycle: 1:1
RF Output Power: 12.2 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5700 MHz; σ = 5.85 mho/m; ε_r = 45.5; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(4.69, 4.69, 4.69); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - MAIN Antenna - Channel 140 - 5700 MHz
Area Scan (13x27x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - MAIN Antenna - Channel 140 - 5700 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.11 V/m; Power Drift = -0.189 dB
Peak SAR (extrapolated) = 1.90 W/kg
SAR(1 g) = 0.367 mW/g; SAR(10 g) = 0.117 mW/g
Maximum value of SAR (measured) = 0.729 mW/g



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Date Tested: 11/22/2006

Body SAR - 802.11a - 6 Mbps - 5700 MHz - Channel 140 - Bottom Side of DUT - AUX Antenna

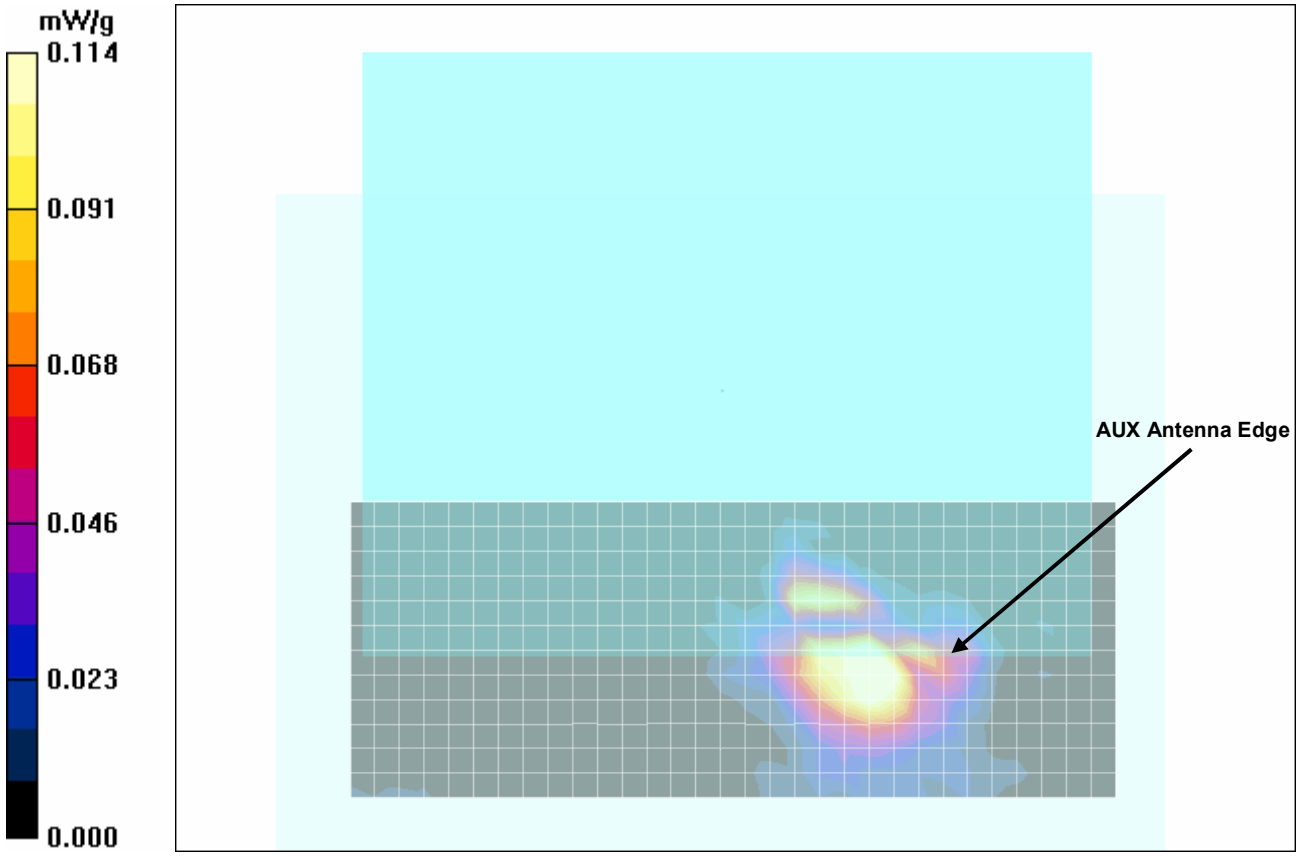
DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1 kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5700 MHz; Duty Cycle: 1:1
RF Output Power: 12.2 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5700 MHz; σ = 5.85 mho/m; ε_r = 45.5; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(4.69, 4.69, 4.69); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - AUX Antenna - Channel 140 - 5700 MHz
Area Scan (13x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - AUX Antenna - Channel 140 - 5700 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 3.39 V/m; Power Drift = 0.0609 dB
Peak SAR (extrapolated) = 0.225 W/kg
SAR(1 g) = 0.0463 mW/g; SAR(10 g) = 0.012 mW/g
Maximum value of SAR (measured) = 0.114 mW/g



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Date Tested: 11/22/2006

Body SAR - 802.11a - 6 Mbps - 5700 MHz - Channel 140 - MAIN Antenna Edge of DUT - MAIN Antenna Simultaneous Transmit with Co-located Bluetooth

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

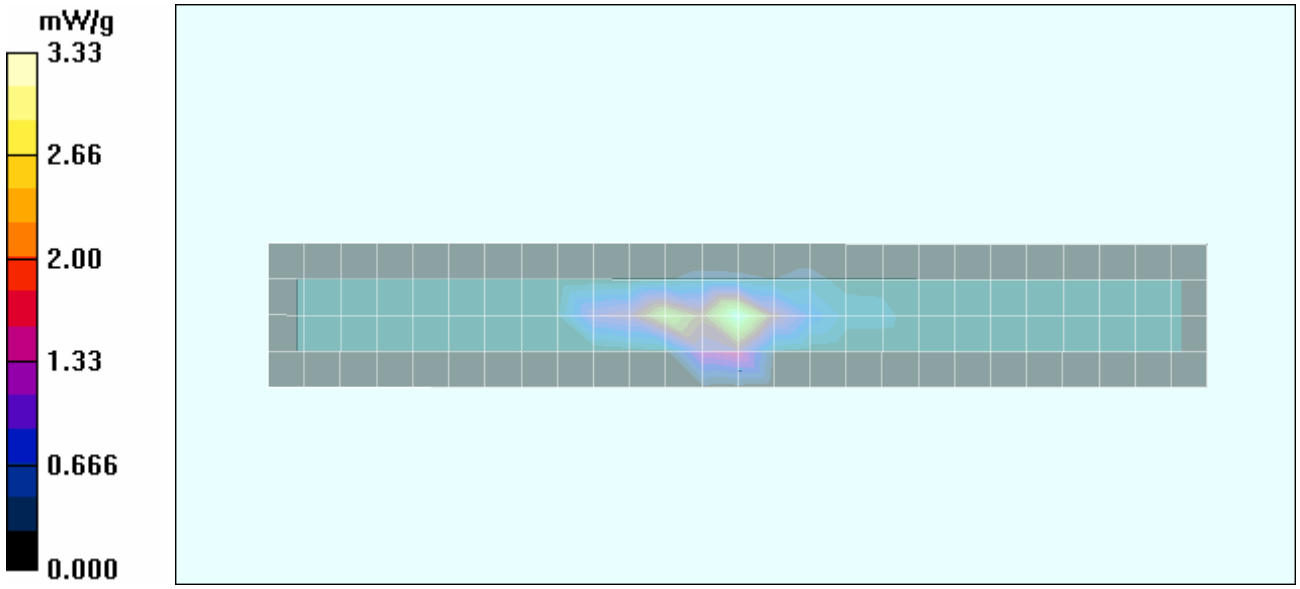
Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1 kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5700 MHz; Duty Cycle: 1:1
RF Output Power: 12.2 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
RF Output Power: -0.97 dBm (Conducted) Bluetooth
Communication System: Modulated Fixed Frequency (Bluetooth)
Frequency: 2441 MHz; Duty Cycle: 1:1 (Bluetooth)
Medium: M5200-5800 Medium parameters used: f = 5700 MHz; σ = 5.85 mho/m; ε_r = 45.5; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.69, 4.69, 4.69); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 140 - 5700 MHz
Area Scan (5x27x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.25 mW/g

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 140 - 5700 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 14.5 V/m; Power Drift = 0.0300 dB
Peak SAR (extrapolated) = 8.38 W/kg
SAR(1 g) = 1.54 mW/g; SAR(10 g) = 0.368 mW/g
Maximum value of SAR (measured) = 3.33 mW/g



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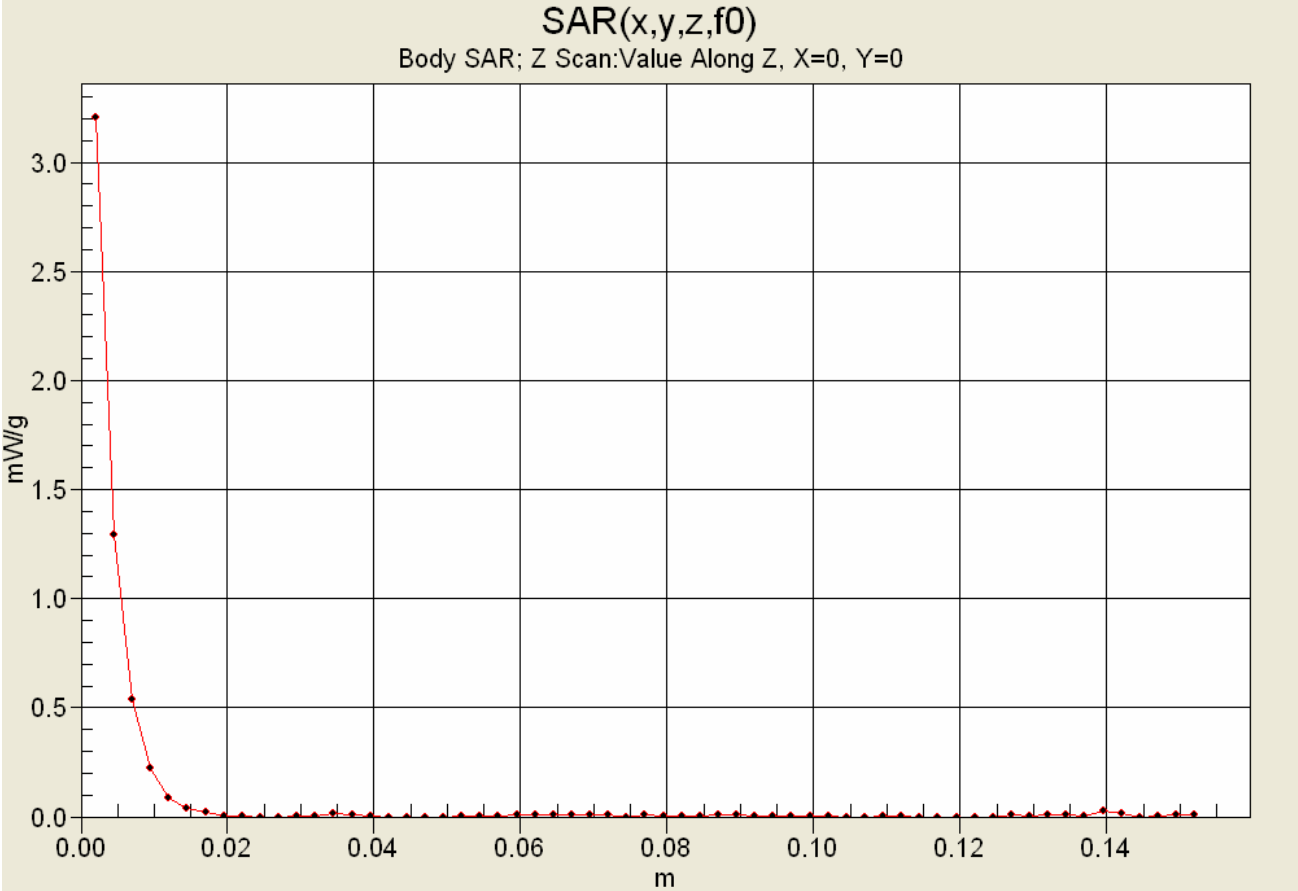
Z-Axis Scan



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Date Tested: 11/16/2006

Body SAR - 802.11a - 6 Mbps - 5825 MHz - Channel 165 - MAIN Antenna Edge of DUT - MAIN Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

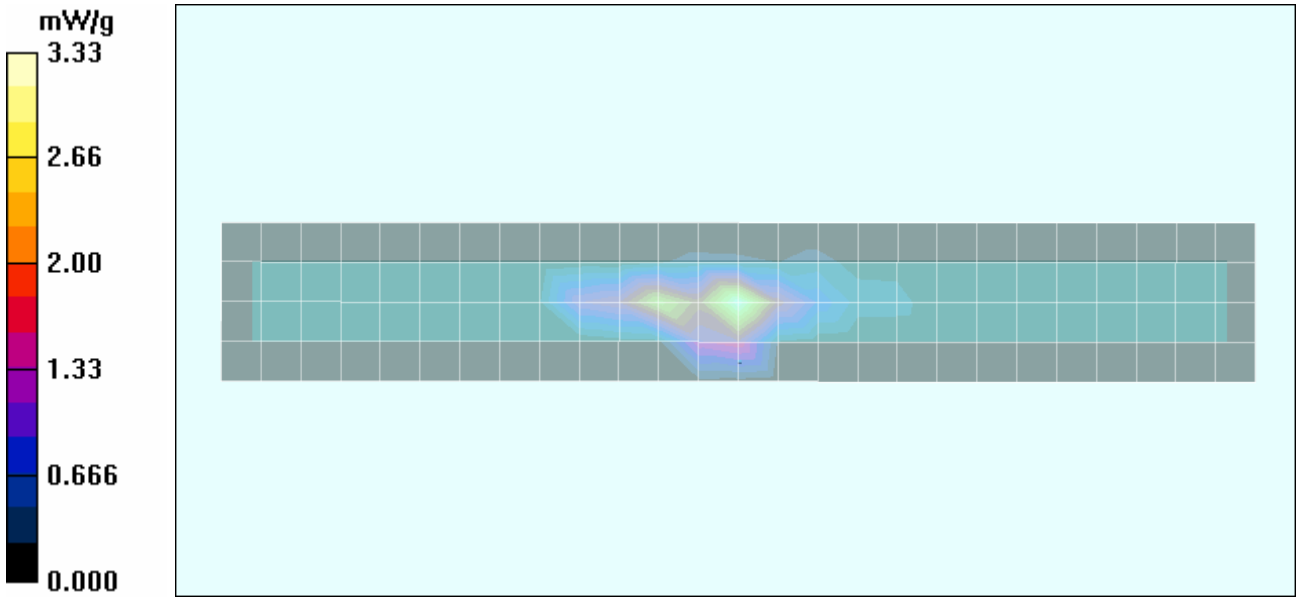
Ambient Temp: 23.0°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 32%

Communication System: OFDM WLAN
Frequency: 5825 MHz; Duty Cycle: 1:1
RF Output Power: 13.0 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5825 MHz; σ = 6.12 mho/m; ε_r = 46.1; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.69, 4.69, 4.69); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 165 - 5825 MHz
Area Scan (5x27x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 165 - 5825 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 14.5 V/m; Power Drift = 0.040 dB
Peak SAR (extrapolated) = 8.38 W/kg
SAR(1 g) = 1.54 mW/g; SAR(10 g) = 0.368 mW/g
Maximum value of SAR (measured) = 3.33 mW/g



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Date Tested: 11/16/2006

Body SAR - 802.11a - 6 Mbps - 5765 MHz - Channel 153 - MAIN Antenna Edge of DUT - MAIN Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

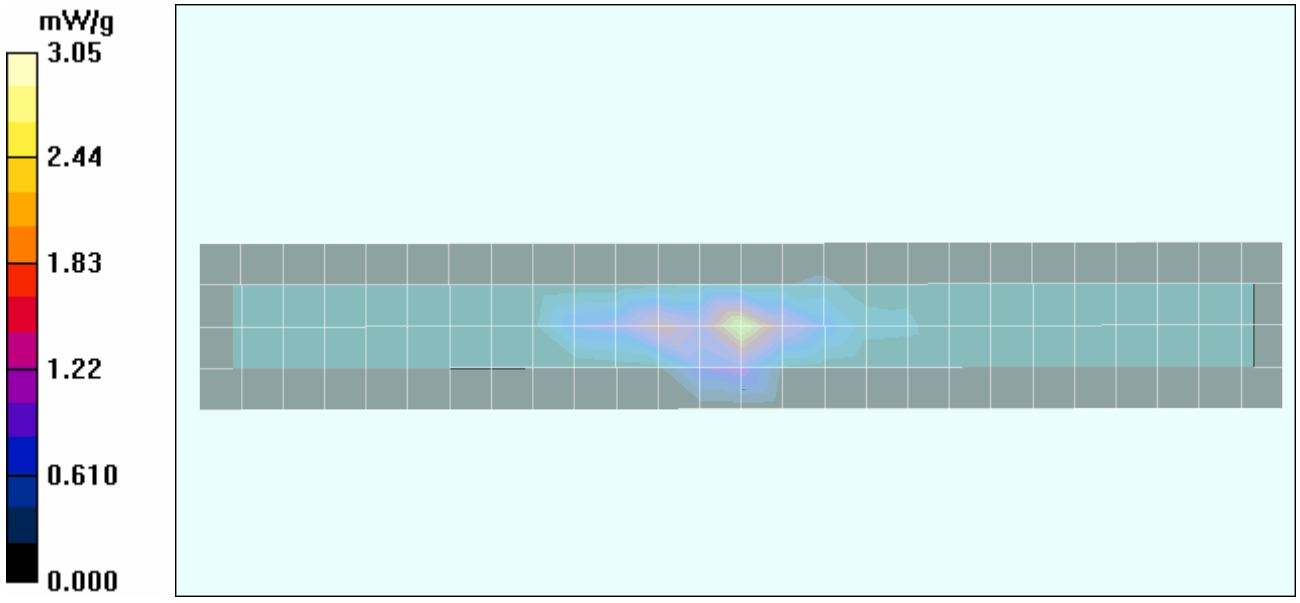
Ambient Temp: 23.0°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 32%

Communication System: OFDM WLAN
Frequency: 5765 MHz; Duty Cycle: 1:1
RF Output Power: 12.5 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5765 MHz; σ = 6.12 mho/m; ε_r = 46.1; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.69, 4.69, 4.69); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 153 - 5765 MHz
Area Scan (5x27x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 153 - 5765 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 14.1 V/m; Power Drift = 0.165 dB
Peak SAR (extrapolated) = 7.57 W/kg
SAR(1 g) = 1.44 mW/g; SAR(10 g) = 0.354 mW/g
Maximum value of SAR (measured) = 3.05 mW/g



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Date Tested: 11/16/2006

Body SAR - 802.11a - 6 Mbps - 5785 MHz - Channel 157 - MAIN Antenna Edge of DUT - MAIN Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

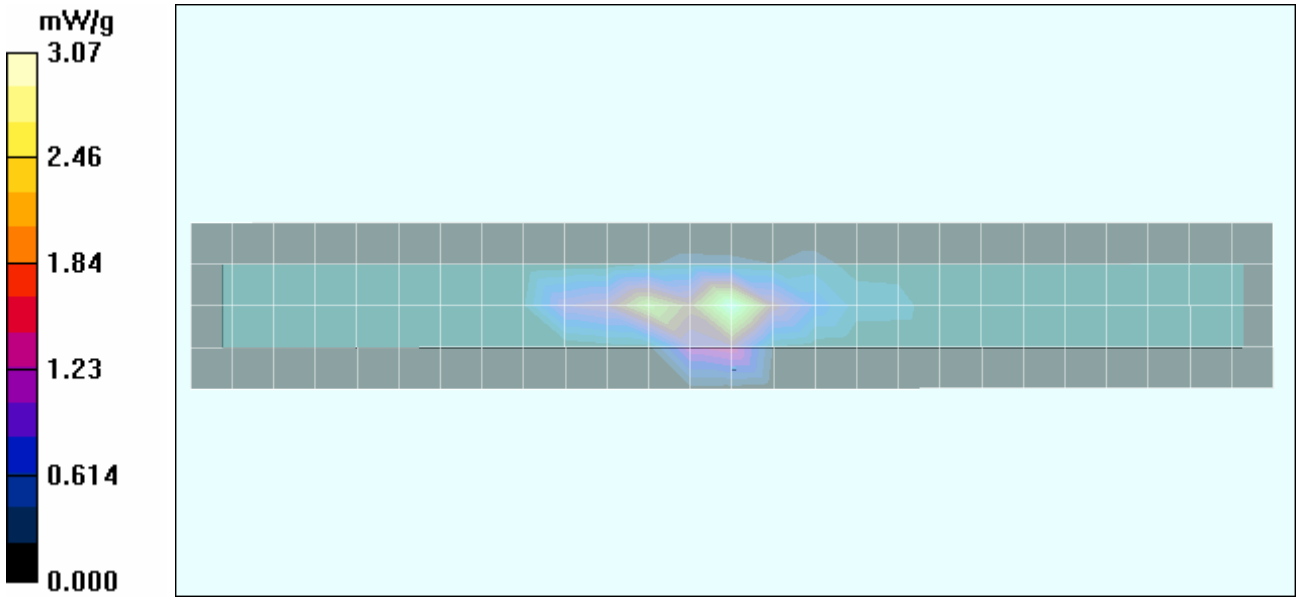
Ambient Temp: 23.0°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 32%

Communication System: OFDM WLAN
Frequency: 5785 MHz; Duty Cycle: 1:1
RF Output Power: 12.9 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5785 MHz; σ = 6.12 mho/m; ε_r = 46.1; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.69, 4.69, 4.69); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 157 - 5785 MHz
Area Scan (5x27x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from MAIN Antenna Edge of DUT to Planar Phantom - Channel 157 - 5785 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 14.4 V/m; Power Drift = 0.0847 dB
Peak SAR (extrapolated) = 7.91 W/kg
SAR(1 g) = 1.46 mW/g; SAR(10 g) = 0.359 mW/g
Maximum value of SAR (measured) = 3.07 mW/g



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Date Tested: 11/23/2006

Body SAR - 802.11a - 6 Mbps - 5825 MHz - Channel 165 - AUX Antenna Edge of DUT - AUX Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

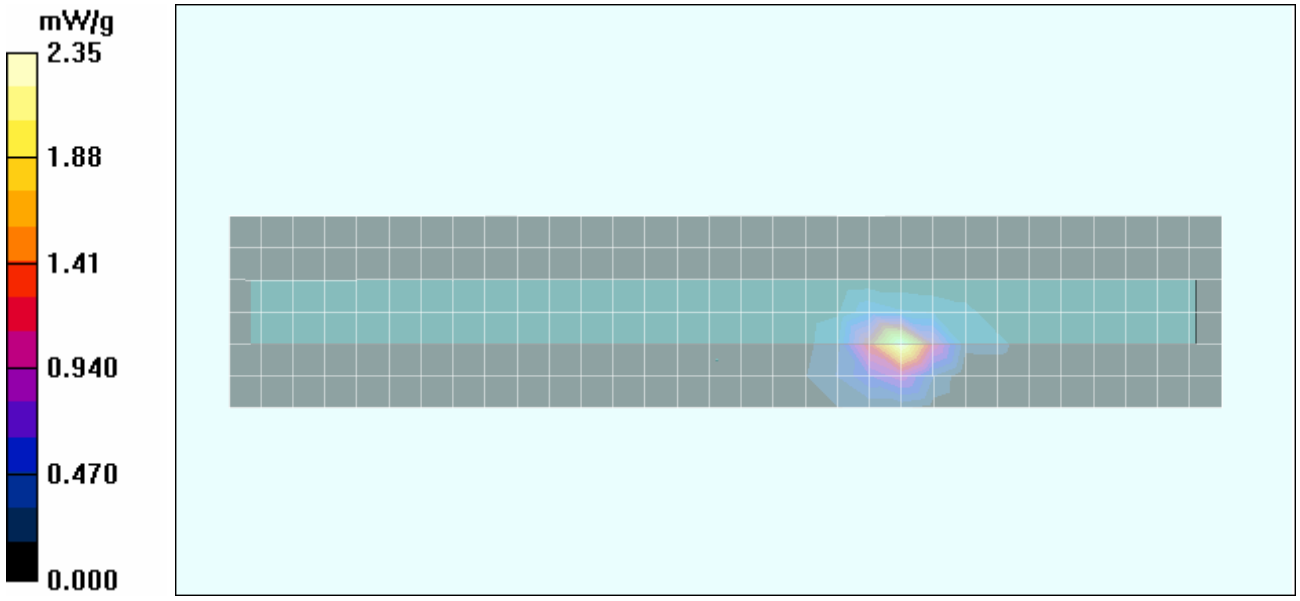
Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5825 MHz; Duty Cycle: 1:1
RF Output Power: 13.0 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5825 MHz; σ = 6.06 mho/m; ε_r = 45.1; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.69, 4.69, 4.69); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 165 - 5825 MHz
Area Scan (7x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 165 - 5825 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 18.0 V/m; Power Drift = 0.107 dB
Peak SAR (extrapolated) = 5.45 W/kg
SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.315 mW/g
Maximum value of SAR (measured) = 2.35 mW/g



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Date Tested: 11/23/2006

Body SAR - 802.11a - 6 Mbps - 5765 MHz - Channel 153 - AUX Antenna Edge of DUT - AUX Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

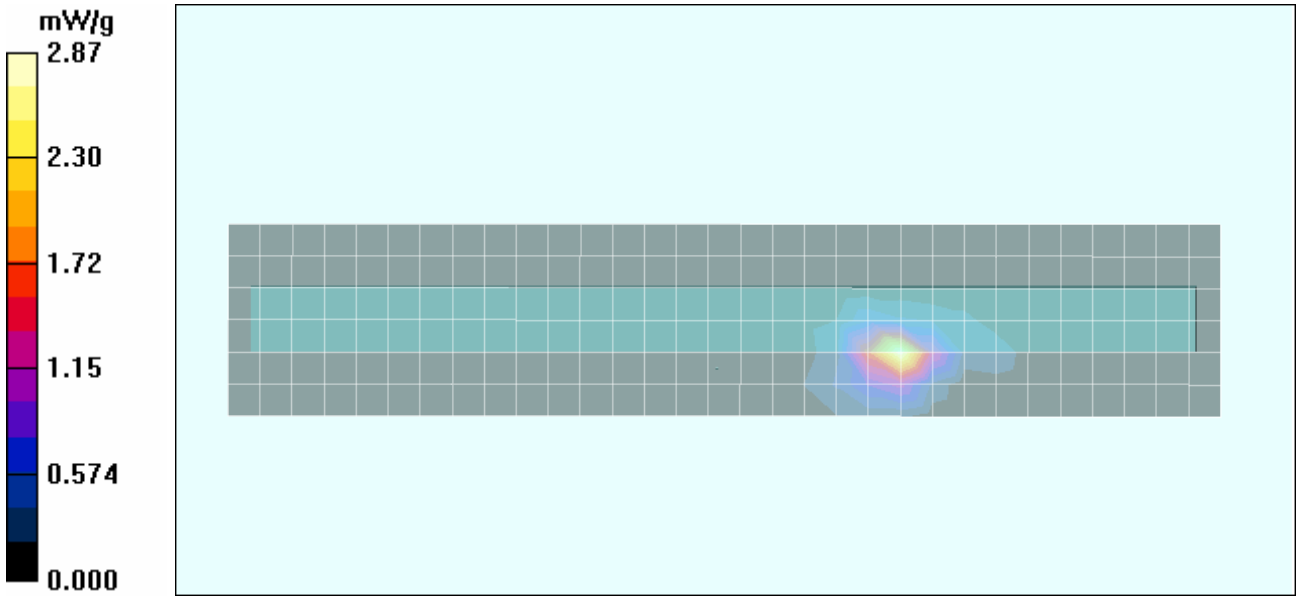
Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5765 MHz; Duty Cycle: 1:1
RF Output Power: 12.5 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5765 MHz; σ = 6.06 mho/m; ε_r = 45.1; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.69, 4.69, 4.69); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 153 - 5765 MHz
Area Scan (7x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 153 - 5765 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 20.6 V/m; Power Drift = 0.008 dB
Peak SAR (extrapolated) = 6.71 W/kg
SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.388 mW/g
Maximum value of SAR (measured) = 2.87 mW/g



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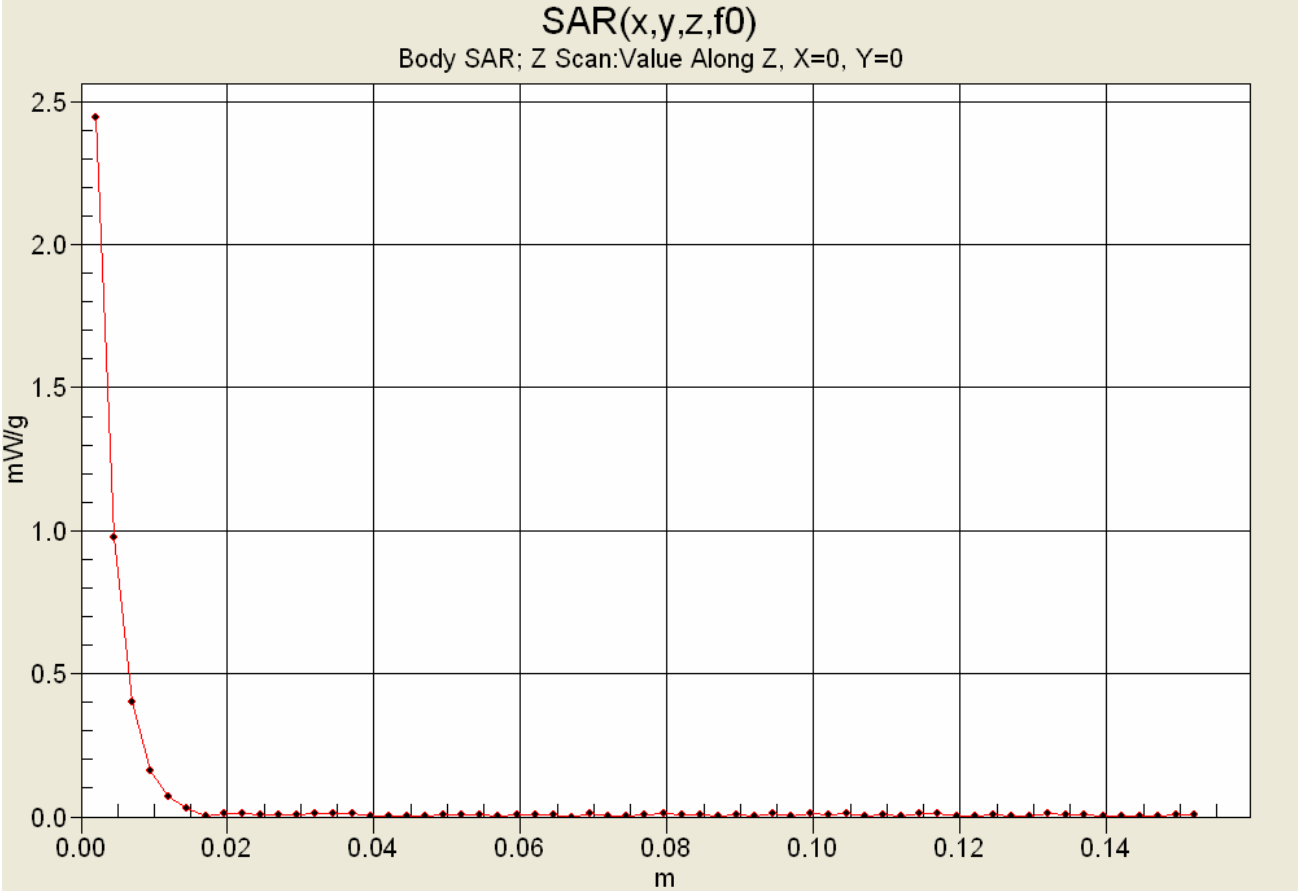
Z-Axis Scan



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Date Tested: 11/23/2006

Body SAR - 802.11a - 6 Mbps - 5785 MHz - Channel 157 - AUX Antenna Edge of DUT - AUX Antenna

DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

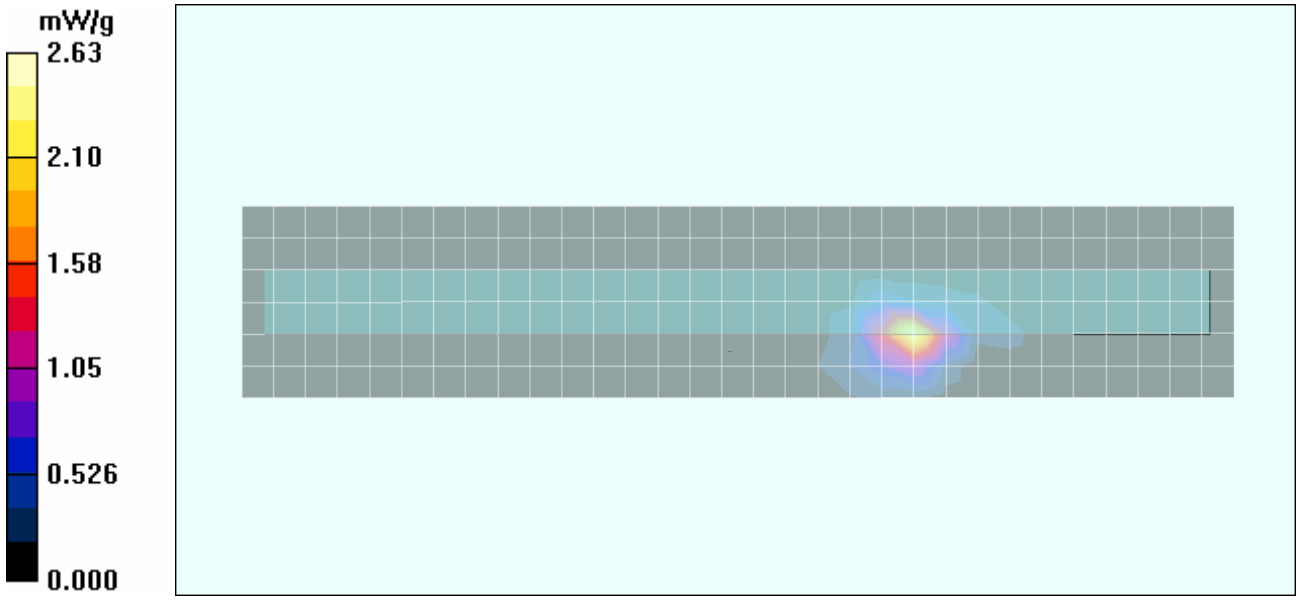
Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5785 MHz; Duty Cycle: 1:1
RF Output Power: 12.9 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5785 MHz; σ = 6.06 mho/m; ε_r = 45.1; ρ = 1000 kg/m^3

- Probe: EX3DV4 - SN3547; ConvF(4.69, 4.69, 4.69); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 157 - 5785 MHz
Area Scan (7x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from AUX Antenna Edge of DUT to Planar Phantom - Channel 157 - 5785 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 18.9 V/m; Power Drift = 0.030 dB
Peak SAR (extrapolated) = 6.08 W/kg
SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.345 mW/g
Maximum value of SAR (measured) = 2.63 mW/g



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Date Tested: 11/23/2006

Body SAR - 802.11a - 6 Mbps - 5825 MHz - Channel 165 - Bottom Side of DUT - MAIN Antenna

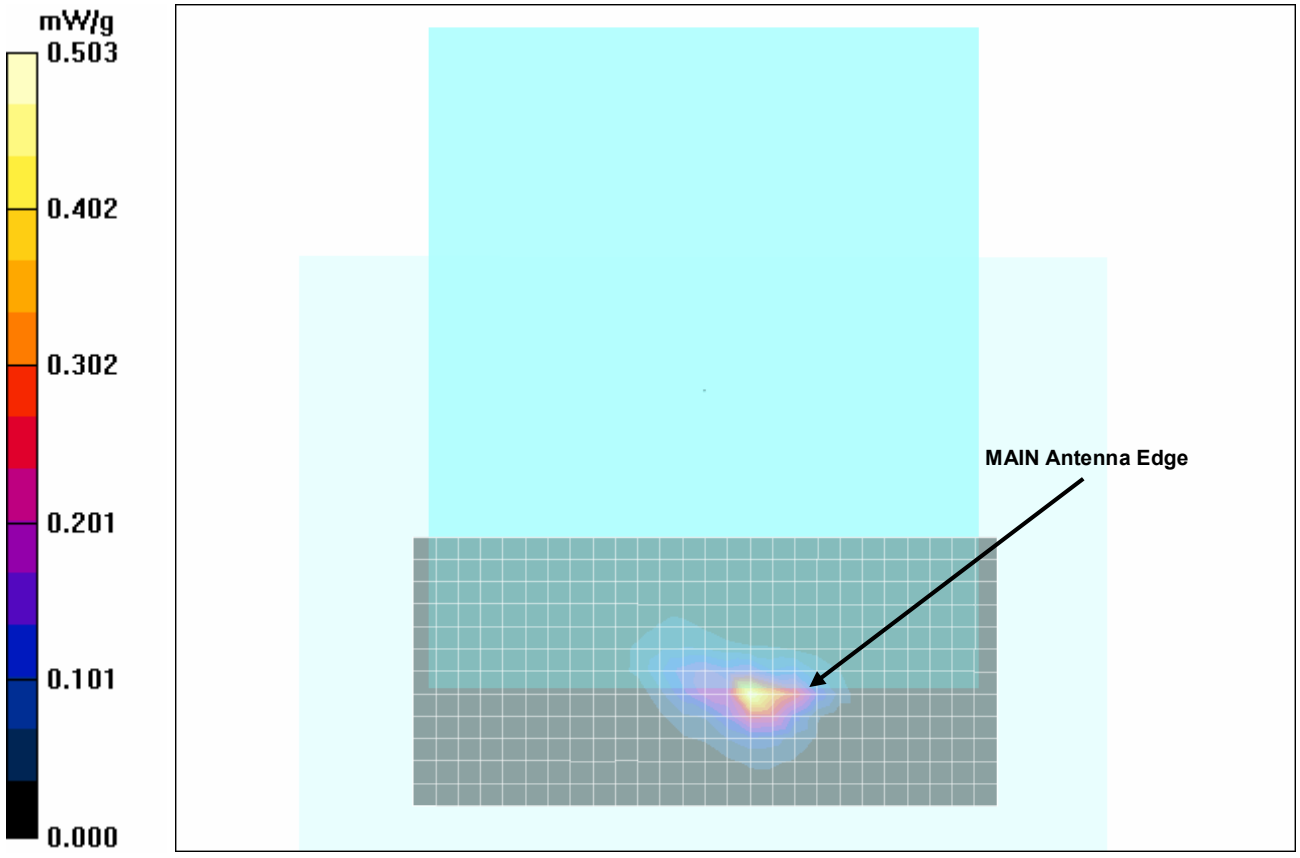
DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5825 MHz; Duty Cycle: 1:1
RF Output Power: 13.0 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5825 MHz; σ = 6.06 mho/m; ε_r = 45.1; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(4.69, 4.69, 4.69); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - MAIN Antenna - Channel 165 - 5825 MHz
Area Scan (13x27x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - MAIN Antenna - Channel 165 - 5825 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 6.03 V/m; Power Drift = 0.120 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.243 mW/g; SAR(10 g) = 0.076 mW/g
Maximum value of SAR (measured) = 0.503 mW/g



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Date Tested: 11/23/2006

Body SAR - 802.11a - 6 Mbps - 5825 MHz - Channel 165 - Bottom Side of DUT - AUX Antenna

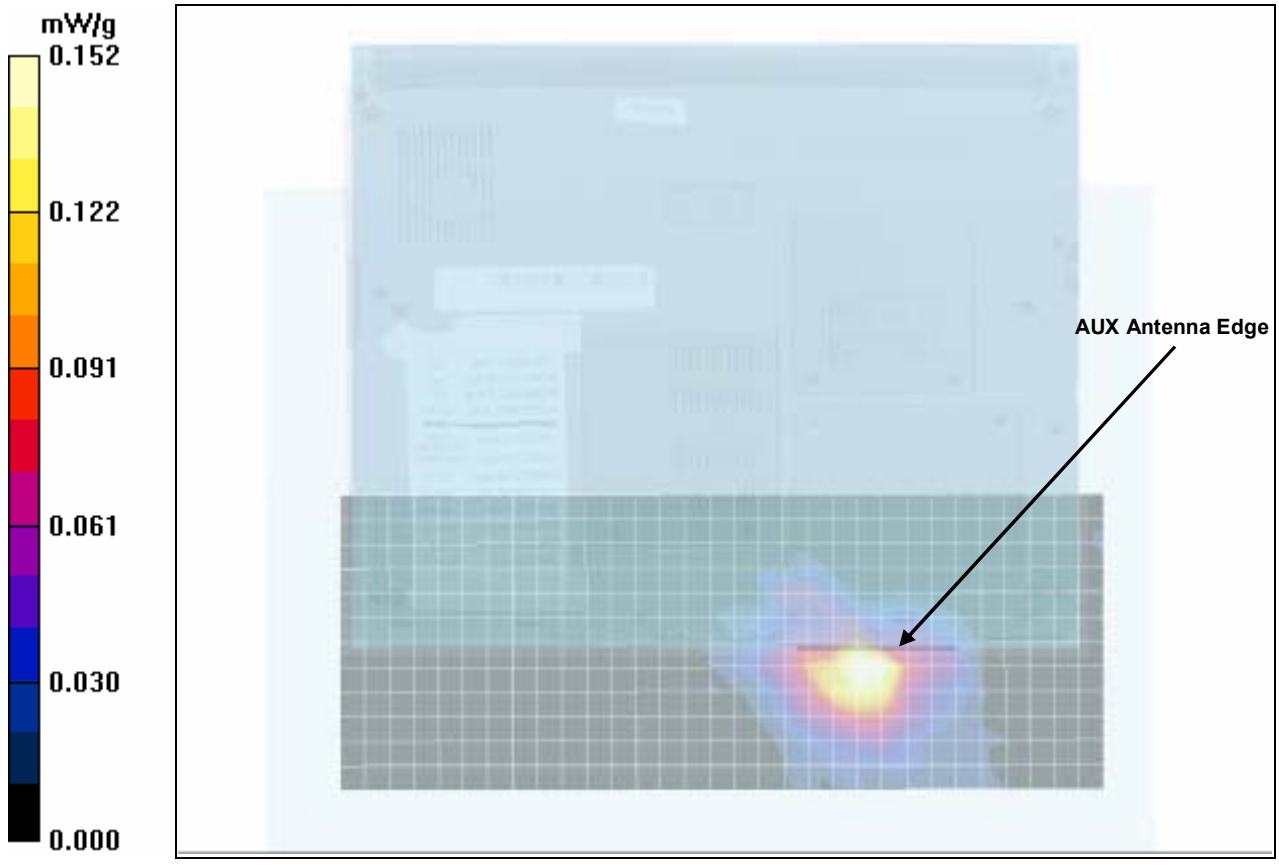
DUT: Motion Computing Model: LE1700; Type: Tablet PC with Atheros 802.11abg & Bluetooth; Serial: P2DVT1 80010001 029

Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1kPa; Humidity: 33%

Communication System: OFDM WLAN
Frequency: 5825 MHz; Duty Cycle: 1:1
RF Output Power: 13.0 dBm (Conducted)
14.8 V Li-ion Standard Battery (Model: BATEDX20L4)
Medium: M5200-5800 Medium parameters used: f = 5825 MHz; σ = 6.06 mho/m; ε_r = 45.1; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(4.69, 4.69, 4.69); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - AUX Antenna - Channel 165 - 5825 MHz
Area Scan (13x32x1): Measurement grid: dx=10mm, dy=10mm

Body SAR - 0.0 cm Spacing from Bottom Side of DUT to Planar Phantom - AUX Antenna - Channel 165 - 5825 MHz
Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 3.43 V/m; Power Drift = -0.137 dB
Peak SAR (extrapolated) = 0.273 W/kg
SAR(1 g) = 0.0710 mW/g; SAR(10 g) = 0.026 mW/g
Maximum value of SAR (measured) = 0.152 mW/g



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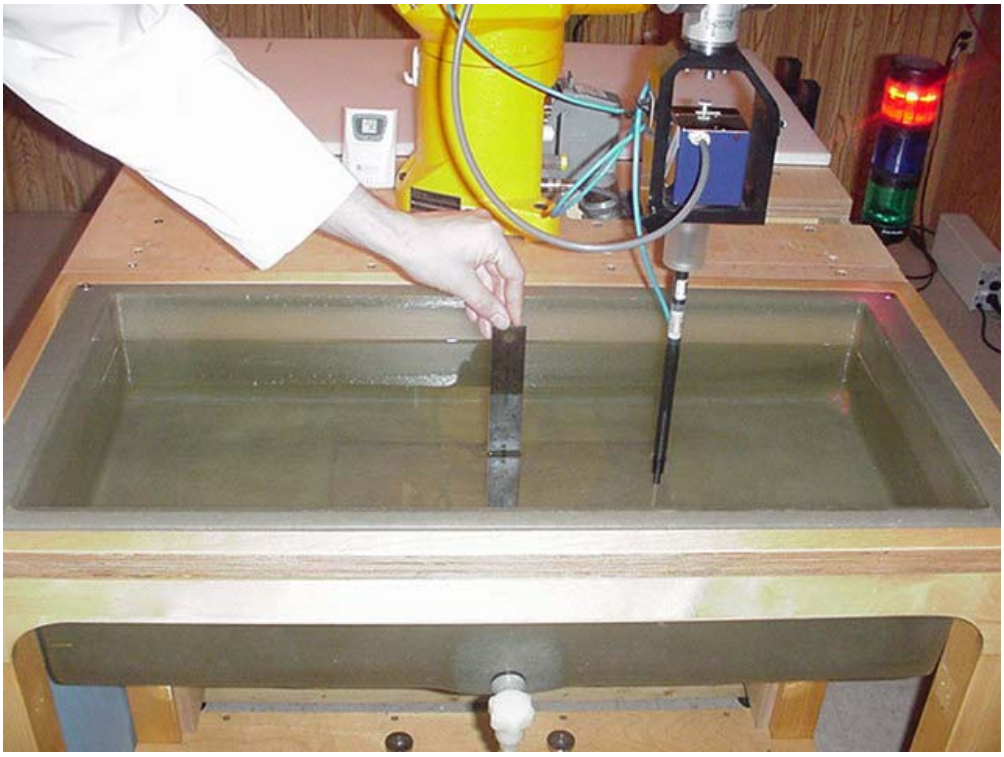
Fluid Depth (≥ 15cm)



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APPENDIX B - SYSTEM PERFORMANCE CHECK DATA

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Date Tested: 11/16/2006

System Performance Check - 5200 MHz Dipole - Body Fluid

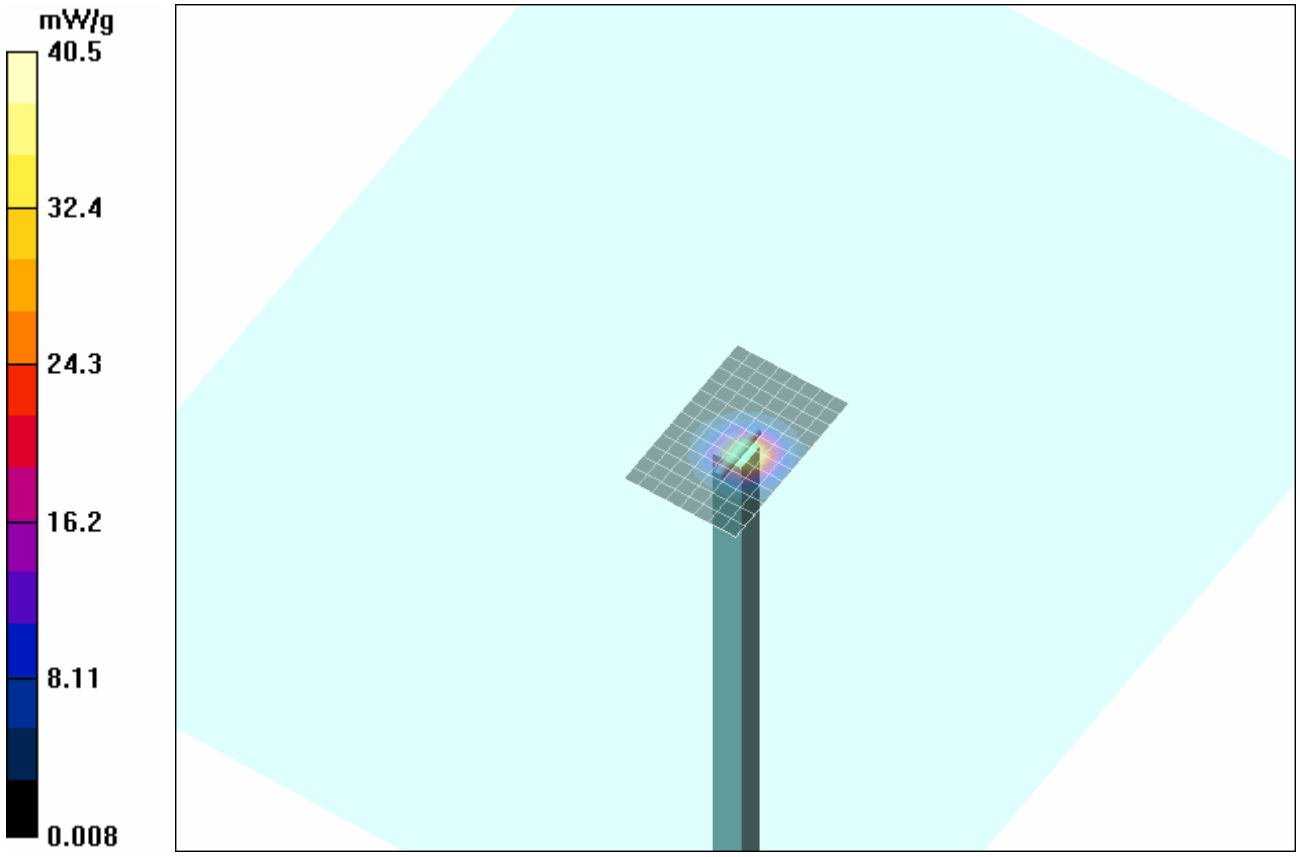
DUT: Dipole 5GHz; Model: D5GHzV2; Serial: 1031; Validation: 07/18/2006

Ambient Temp: 23.0°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 32%

Communication System: CW
Forward Conducted Power: 250 mW
Frequency: 5200 MHz; Duty Cycle: 1:1
Medium: M5200-5800 Medium parameters used: f = 5200 MHz; σ = 5.08 mho/m; ε_r = 44.3; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(4.87, 4.87, 4.87); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

5200 MHz Dipole - System Performance Check/Area Scan (9x13x1):
Measurement grid: dx=5mm, dy=5mm

5200 MHz Dipole - System Performance Check/Zoom Scan (7x7x9)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 72.0 V/m; Power Drift = 0.0254 dB
Peak SAR (extrapolated) = 78.1 W/kg
SAR(1 g) = 19.4 mW/g; SAR(10 g) = 5.43 mW/g
Maximum value of SAR (measured) = 40.5 mW/g



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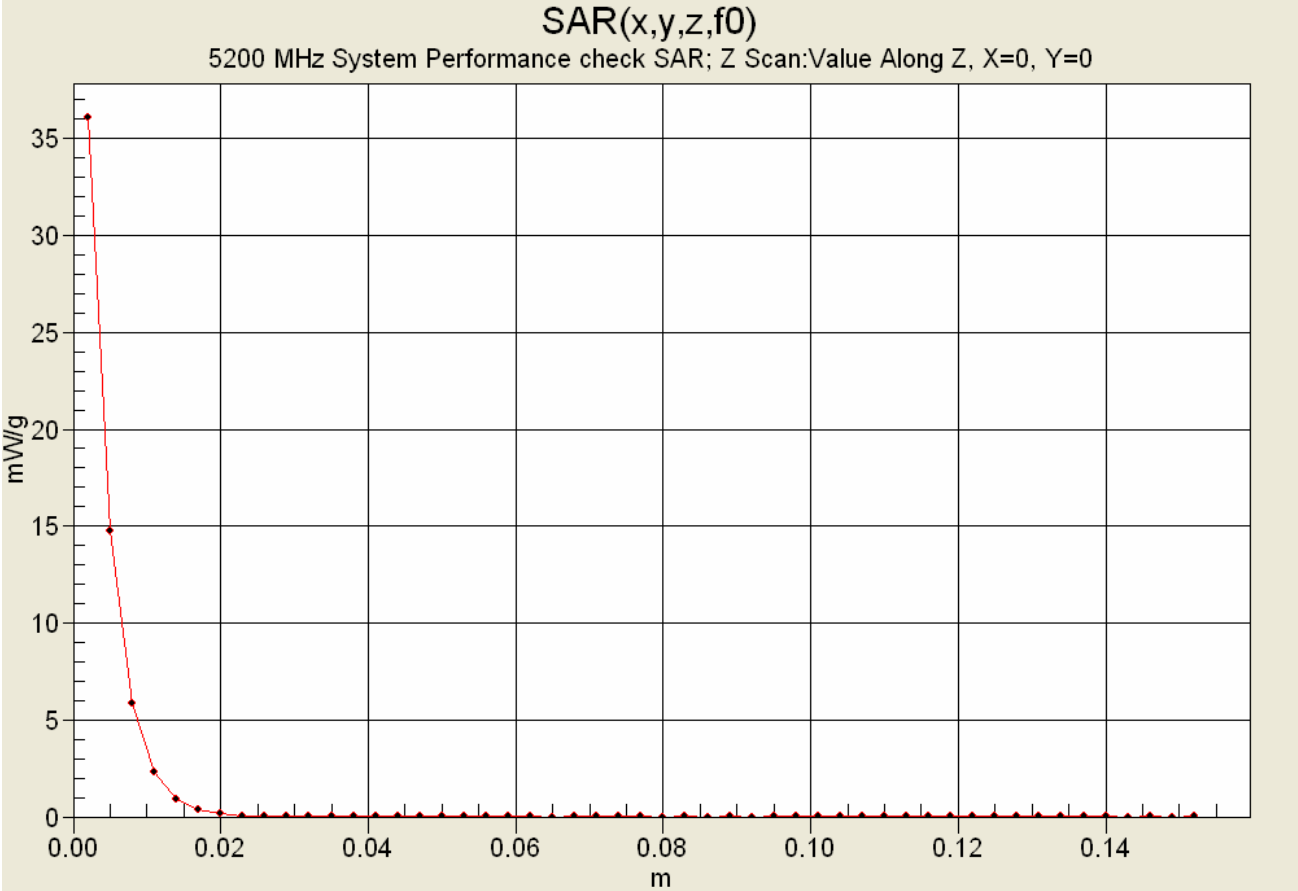
Z-Axis Scan



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Date Tested: 11/16/2006

System Performance Check - 5500 MHz Dipole - Body Fluid

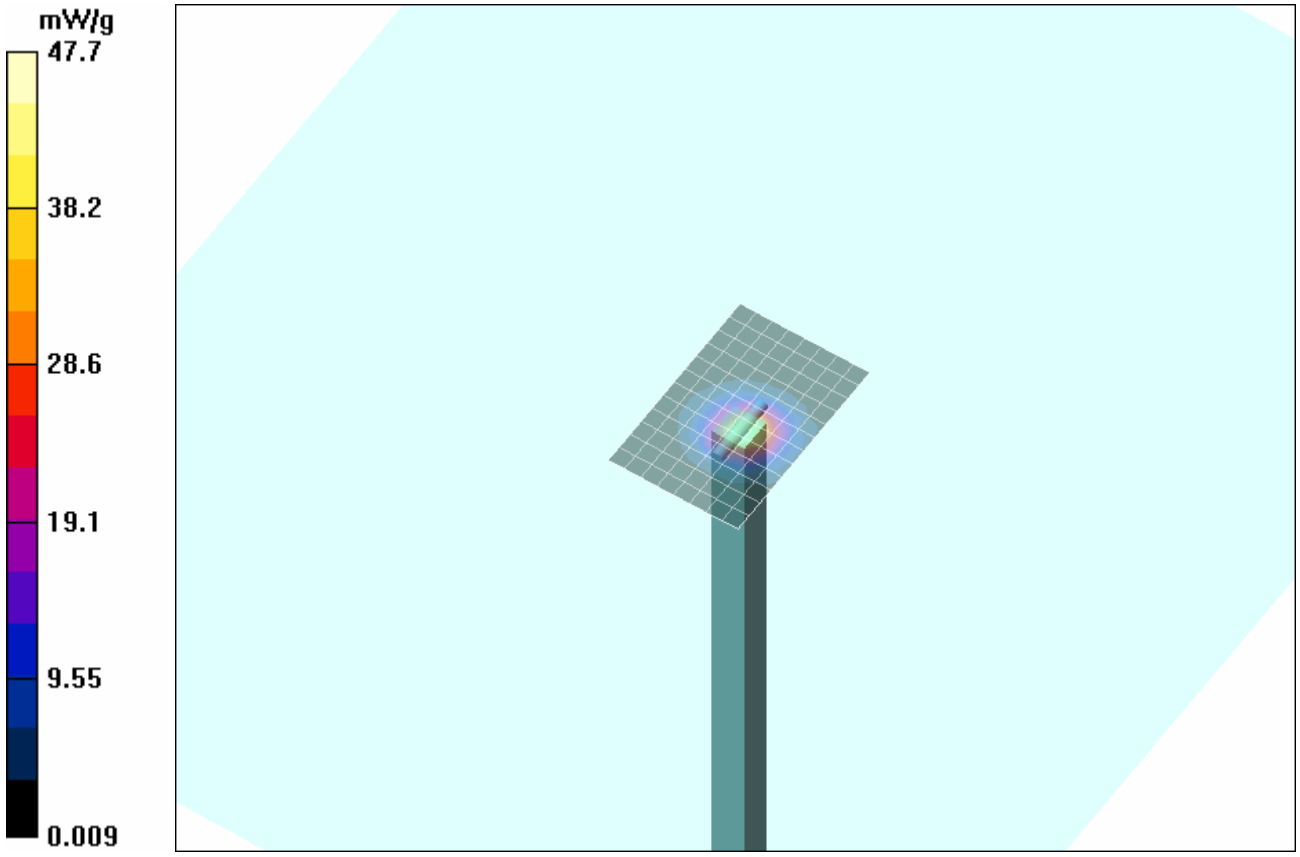
DUT: Dipole 5GHz; Model: D5GHzV2; Serial: 1031; Validation: 11/14/2006

Ambient Temp: 23.0°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 32%

Communication System: CW
Forward Conducted Power: 250 mW
Frequency: 5500 MHz; Duty Cycle: 1:1
Medium: M5200-5800 Medium parameters used: f = 5500 MHz; σ = 5.50 mho/m; ε_r = 45.8; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(4.57, 4.57, 4.57); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

5500 MHz Dipole - System Performance Check/Area Scan (9x13x1):
Measurement grid: dx=5mm, dy=5mm

5500 MHz Dipole - System Performance Check/Zoom Scan (7x7x9)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 78.7 V/m; Power Drift = 0.090 dB
Peak SAR (extrapolated) = 89.4 W/kg
SAR(1 g) = 21.6 mW/g; SAR(10 g) = 5.92 mW/g
Maximum value of SAR (measured) = 47.7 mW/g



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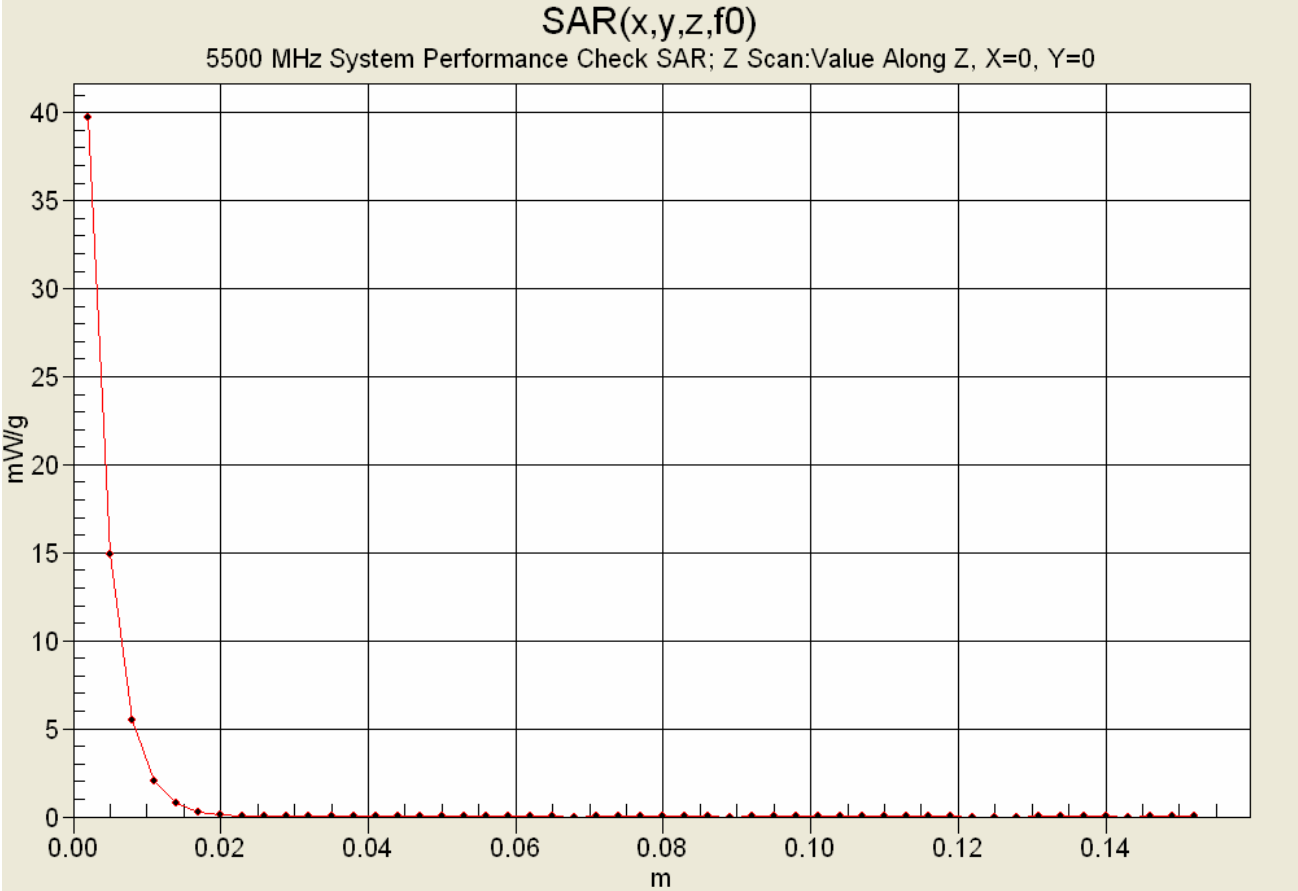
Z-Axis Scan



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Date Tested: 11/16/2006

System Performance Check - 5800 MHz Dipole - Body Fluid

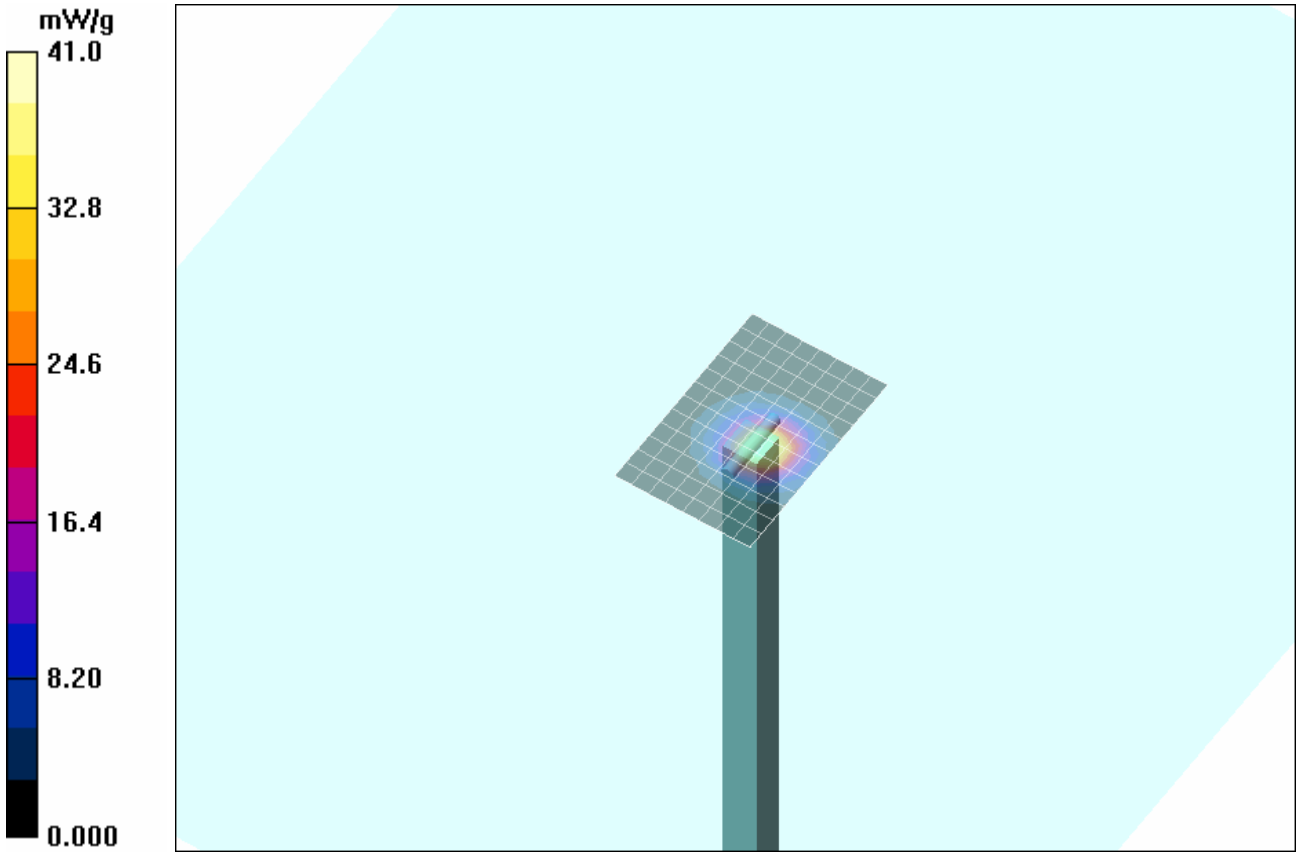
DUT: Dipole 5GHz; Model: D5GHzV2; Serial: 1031; Validation: 07/18/2006

Ambient Temp: 23.0°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 32%

Communication System: CW
Forward Conducted Power: 250 mW
Frequency: 5800 MHz; Duty Cycle: 1:1
Medium: M5200-5800 Medium parameters used: f = 5800 MHz; σ = 6.12 mho/m; ε_r = 46.1; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(4.69, 4.69, 4.69); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

5800 MHz Dipole - System Performance Check/Area Scan (9x13x1):
Measurement grid: dx=5mm, dy=5mm

5800 MHz Dipole - System Performance Check/Zoom Scan (7x7x9)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 65.6 V/m; Power Drift = 0.084 dB
Peak SAR (extrapolated) = 84.4 W/kg
SAR(1 g) = 18.5 mW/g; SAR(10 g) = 5.09 mW/g
Maximum value of SAR (measured) = 41.0 mW/g



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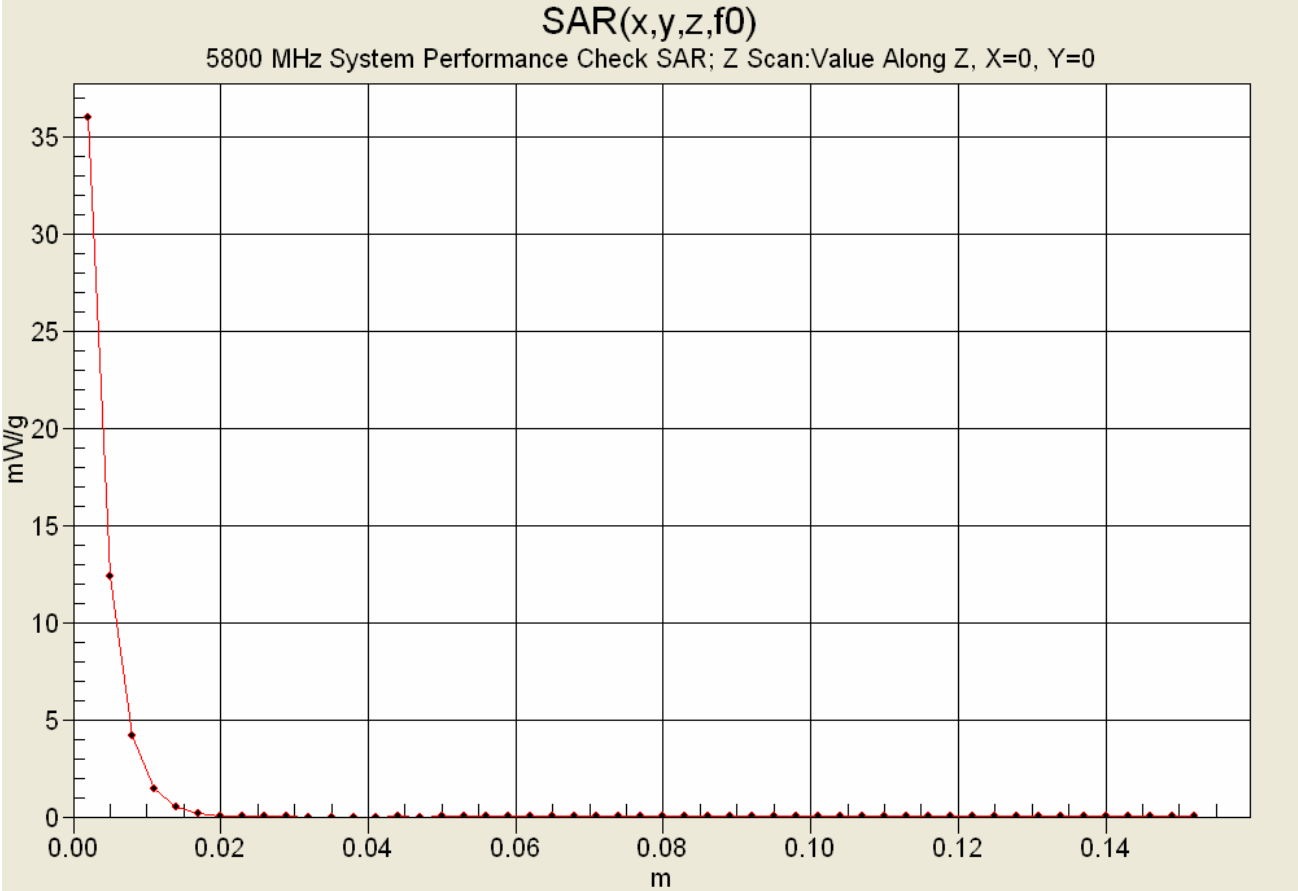
Z-Axis Scan



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Date Tested: 11/21/2006

System Performance Check - 5200 MHz Dipole - Body Fluid

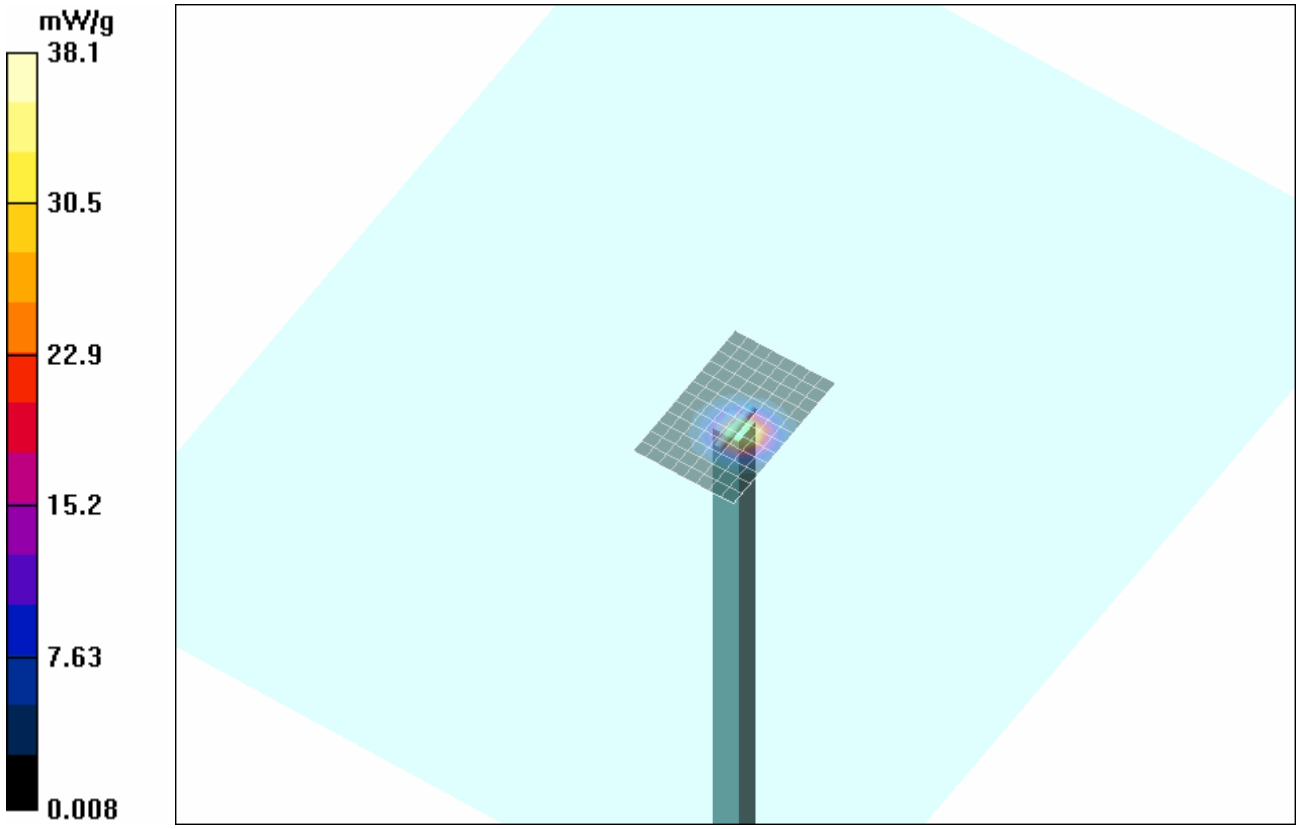
DUT: Dipole 5GHz; Model: D5GHzV2; Serial: 1031; Validation: 07/18/2006

Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1 kPa; Humidity: 32%

Communication System: CW
Forward Conducted Power: 250 mW
Frequency: 5200 MHz; Duty Cycle: 1:1
Medium: M5200-5800 Medium parameters used: f = 5200 MHz; σ = 5.11 mho/m; ε_r = 49.7; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(4.87, 4.87, 4.87); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

5200 MHz Dipole - System Performance Check/Area Scan (9x13x1):
Measurement grid: dx=5mm, dy=5mm

5200 MHz Dipole - System Performance Check/Zoom Scan (7x7x9)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 63.9 V/m; Power Drift = -0.100 dB
Peak SAR (extrapolated) = 74.3 W/kg
SAR(1 g) = 18.0 mW/g; SAR(10 g) = 5.04 mW/g
Maximum value of SAR (measured) = 38.1 mW/g



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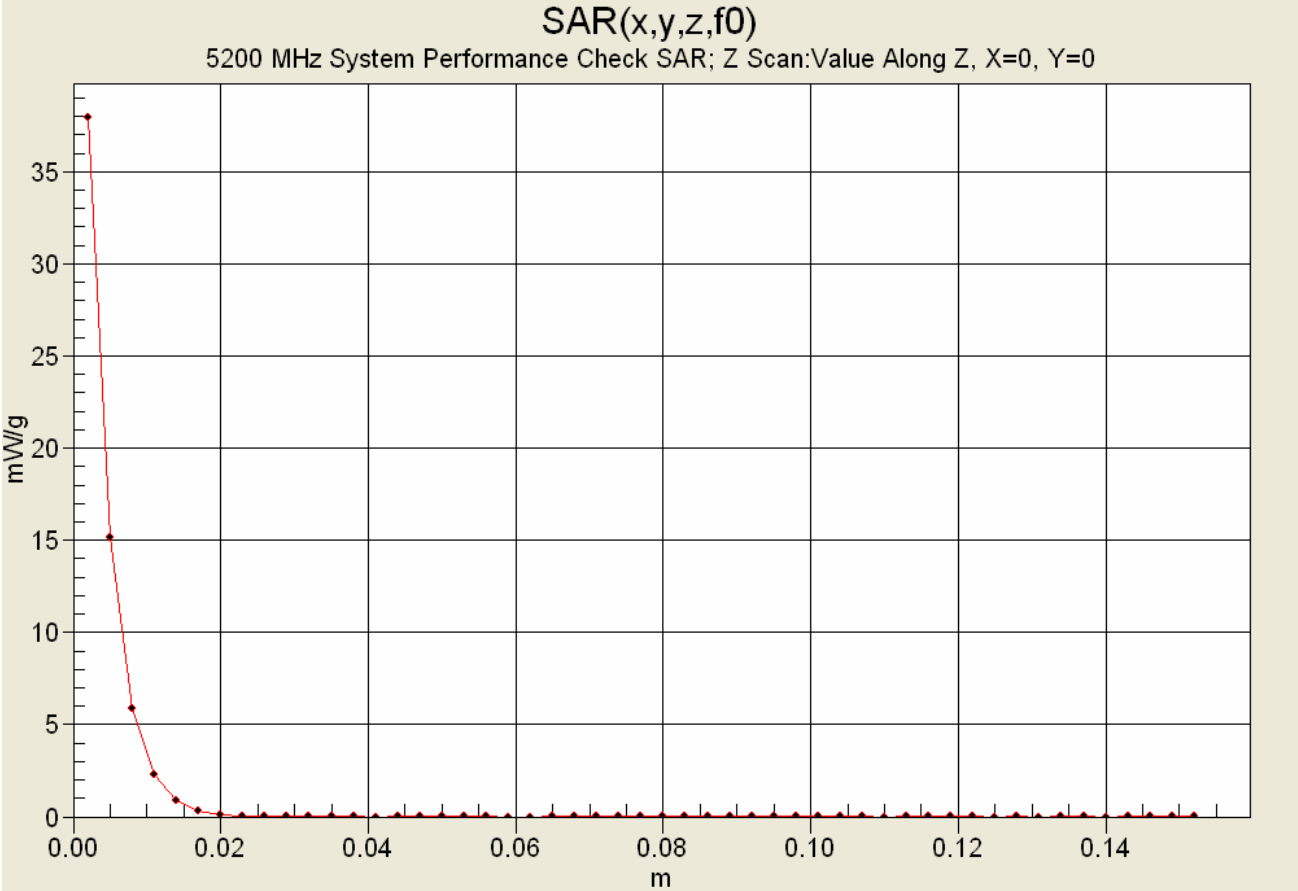
Z-Axis Scan



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Date Tested: 11/22/2006

System Performance Check - 5500 MHz Dipole - Body Fluid

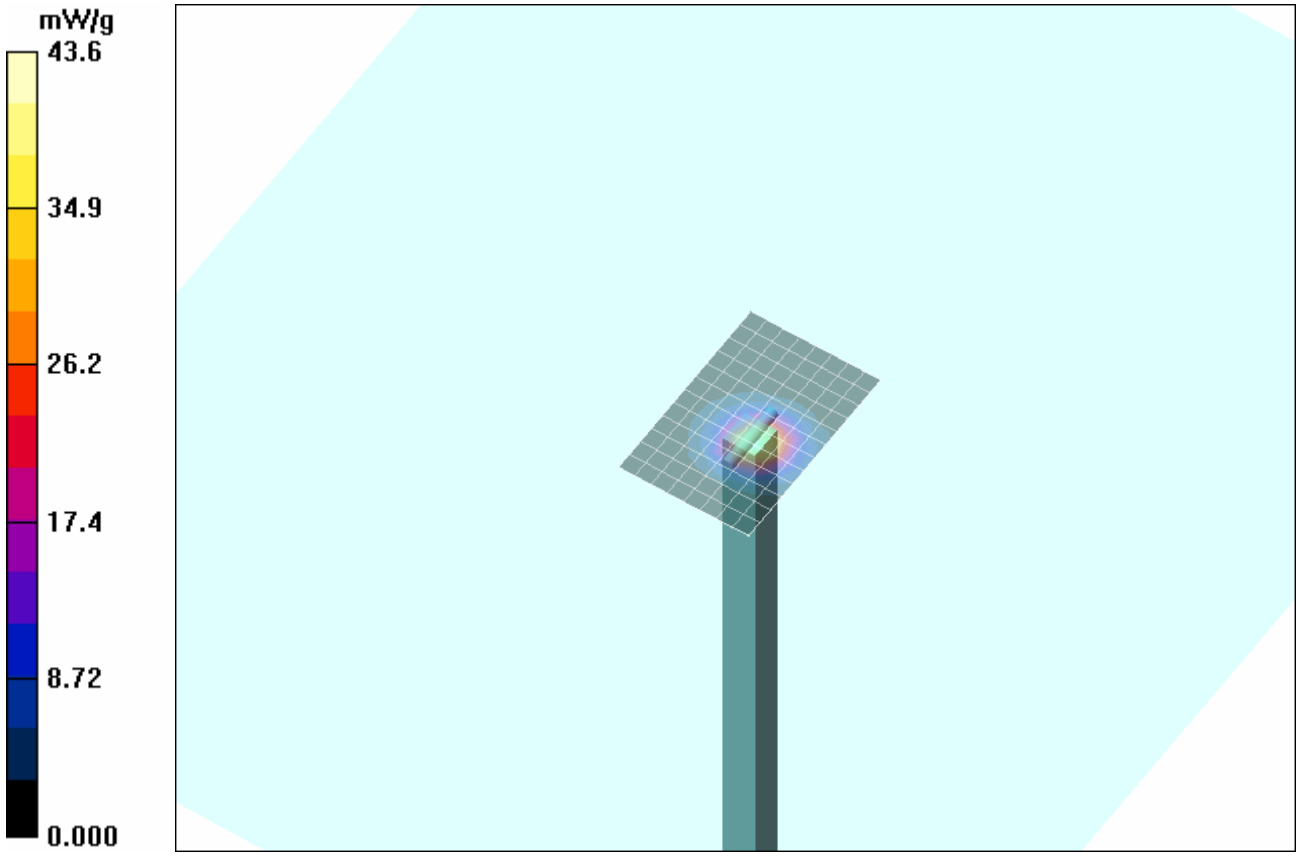
DUT: Dipole 5GHz; Model: D5GHzV2; Serial: 1031; Validation: 11/14/2006

Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1 kPa; Humidity: 32%

Communication System: CW
Forward Conducted Power: 250 mW
Frequency: 5500 MHz; Duty Cycle: 1:1
Medium: M5200-5800 Medium parameters used: f = 5500 MHz; σ = 5.66 mho/m; ε_r = 46.0; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(4.57, 4.57, 4.57); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

5500 MHz Dipole - System Performance Check/Area Scan (9x13x1):
Measurement grid: dx=5mm, dy=5mm

5500 MHz Dipole - System Performance Check/Zoom Scan (7x7x9)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 69.2 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 91.4 W/kg
SAR(1 g) = 20.2 mW/g; SAR(10 g) = 5.57 mW/g
Maximum value of SAR (measured) = 43.6 mW/g



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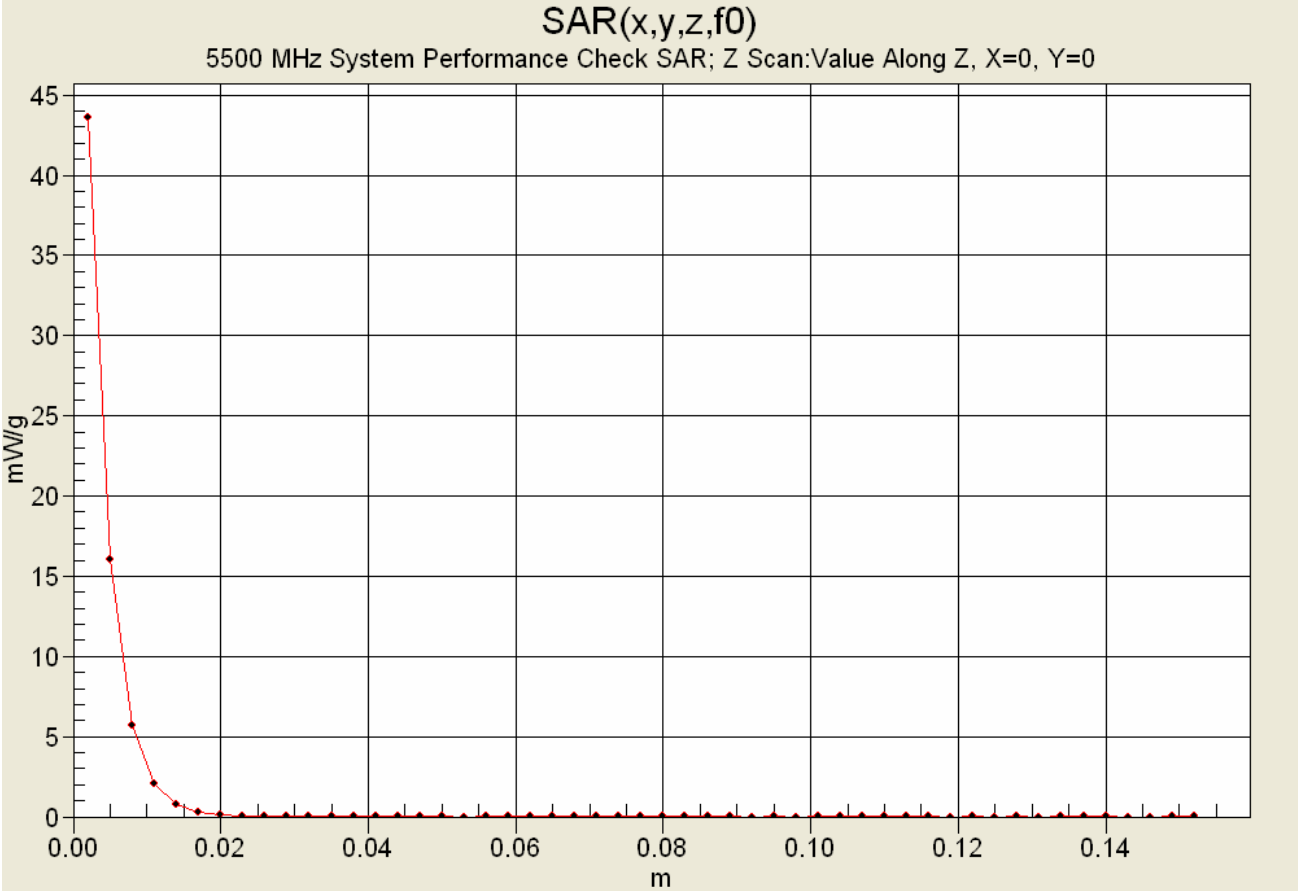
Z-Axis Scan



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Date Tested: 11/23/2006

System Performance Check - 5800 MHz Dipole - Body Fluid

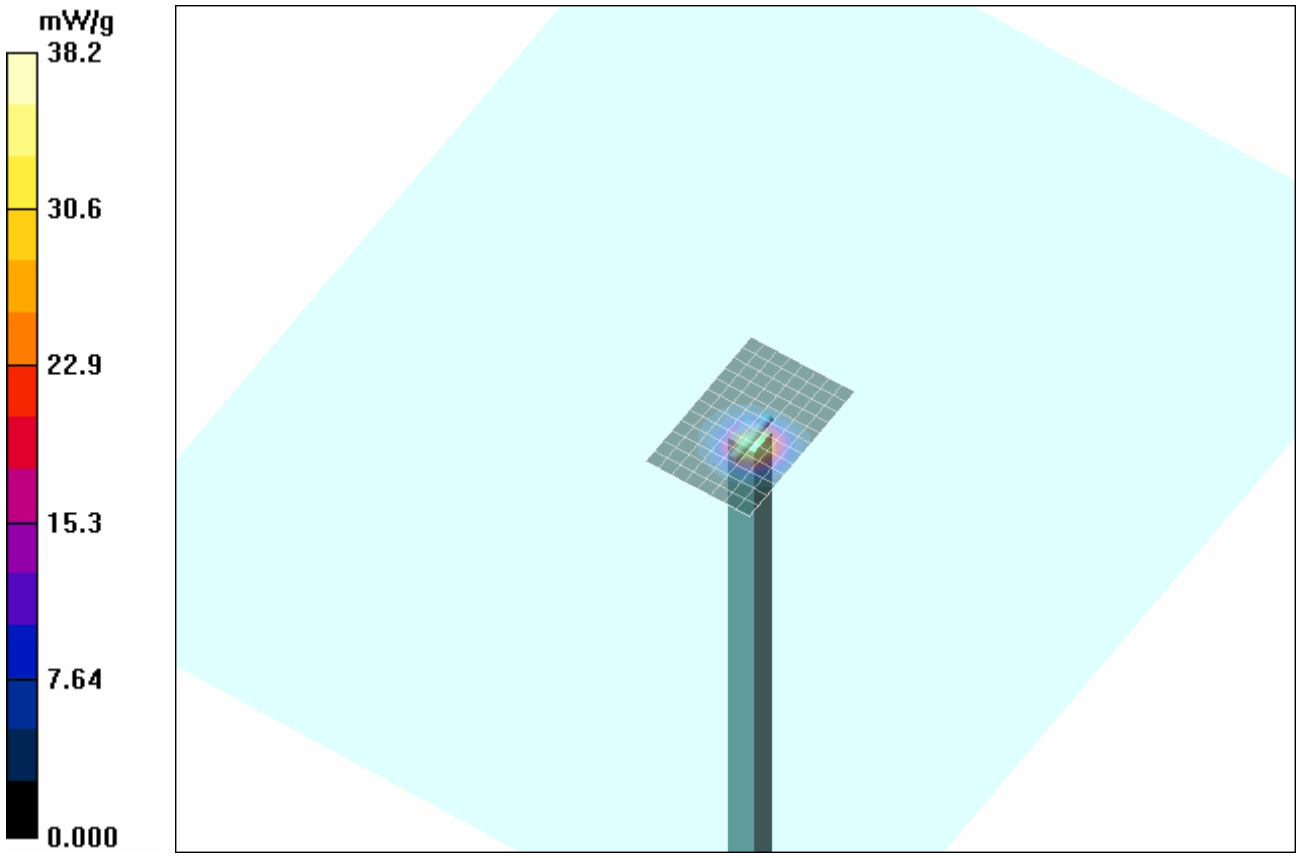
DUT: Dipole 5GHz; Model: D5GHzV2; Serial: 1031; Validation: 07/18/2006

Ambient Temp: 23.5°C; Fluid Temp: 22.7°C; Barometric Pressure: 102.1kPa; Humidity: 32%

Communication System: CW
Forward Conducted Power: 250 mW
Frequency: 5800 MHz; Duty Cycle: 1:1
Medium: M5200-5800 Medium parameters used: f = 5800 MHz; σ = 6.06 mho/m; ε_r = 45.1; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(4.69, 4.69, 4.69); Calibrated: 14/02/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

5800 MHz Dipole - System Performance Check/Area Scan (9x13x1):
Measurement grid: dx=5mm, dy=5mm

5800 MHz Dipole - System Performance Check/Zoom Scan (7x7x9)/Cube 0:
Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 56.1 V/m; Power Drift = -0.036 dB
Peak SAR (extrapolated) = 88.3 W/kg
SAR(1 g) = 17.3 mW/g; SAR(10 g) = 4.76 mW/g
Maximum value of SAR (measured) = 38.2 mW/g



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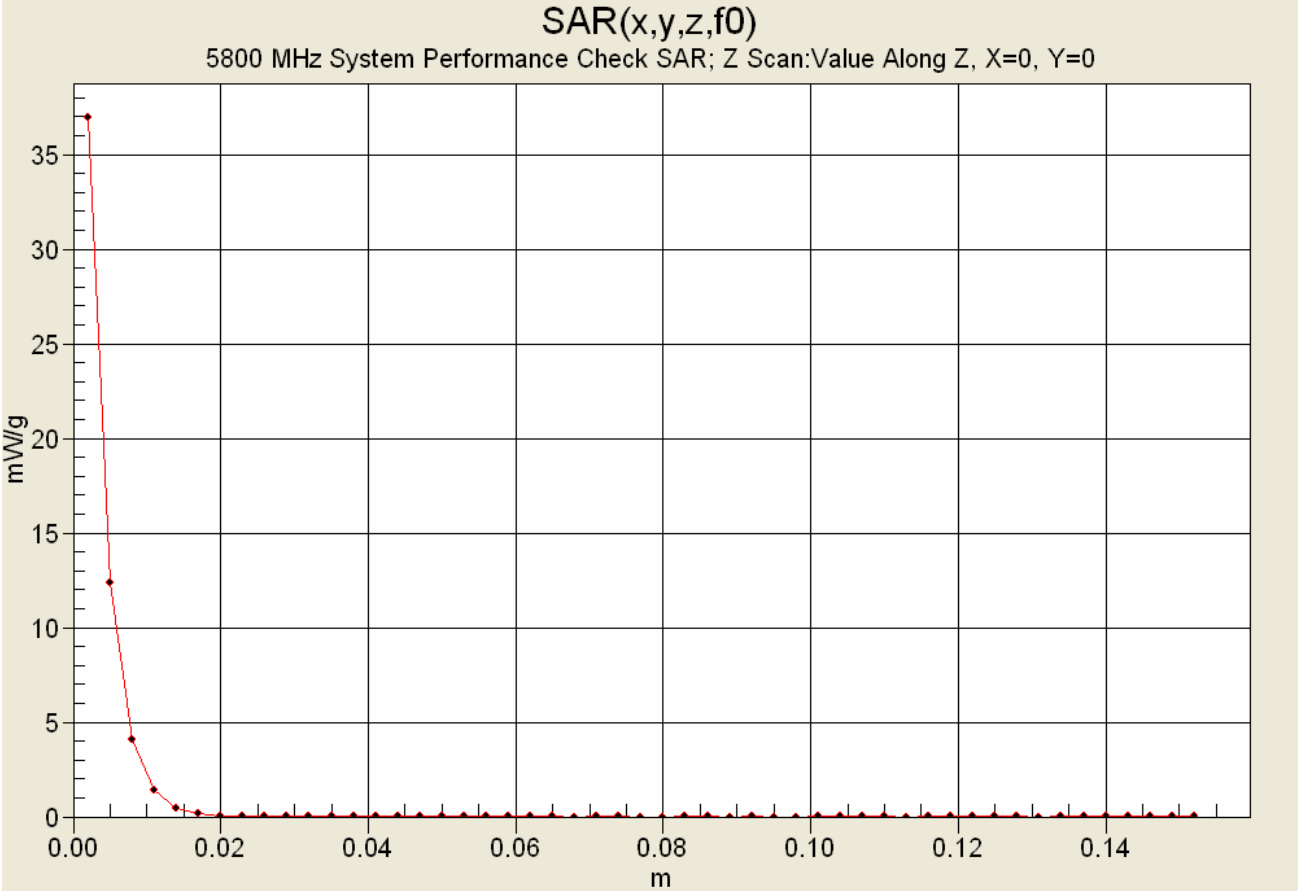
Z-Axis Scan



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Date Tested: 11/27/2006

System Performance Check - 2450 MHz Dipole - Body Fluid

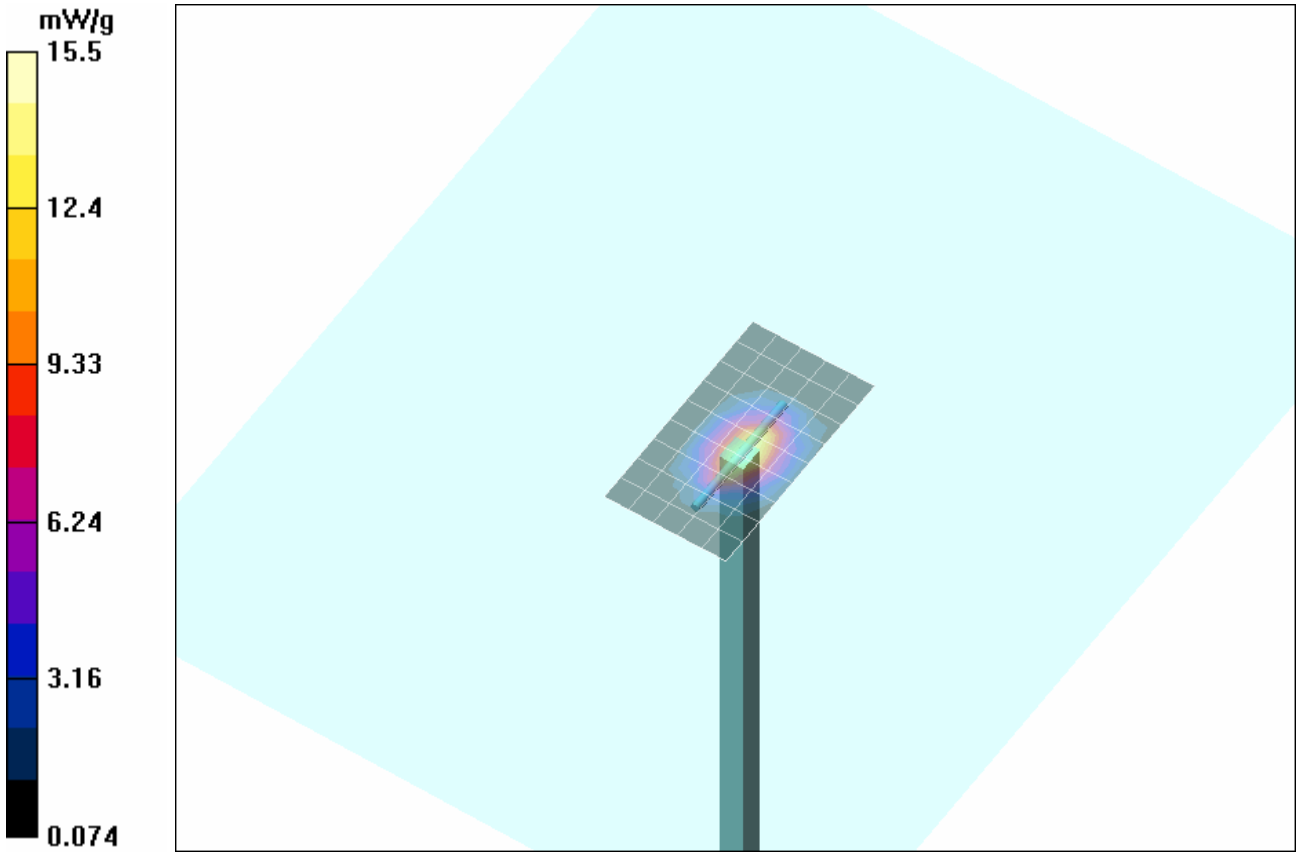
DUT: Dipole 2450 MHz; Model: D2450V2; Serial: 150; Validation: 04/24/2006

Ambient Temp: 25.0°C; Fluid Temp: 23.7°C; Barometric Pressure: 101.2 kPa; Humidity: 33%

Communication System: CW
Forward Conducted Power: 250 mW
Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: M2450 Medium parameters used: f = 2450 MHz; σ = 1.98 mho/m; ε_r = 50.5; ρ = 1000 kg/m^3
- Probe: EX3DV4 - SN3547; ConvF(7.53, 7.53, 7.53); Calibrated: 14/02/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

2450 MHz Dipole - System Performance Check/Area Scan (6x10x1):
Measurement grid: dx=10mm, dy=10mm

2450 MHz Dipole - System Performance Check/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 82.6 V/m; Power Drift = -0.019 dB
Peak SAR (extrapolated) = 29.3 W/kg
SAR(1 g) = 13.5 mW/g; SAR(10 g) = 6.07 mW/g
Maximum value of SAR (measured) = 15.5 mW/g



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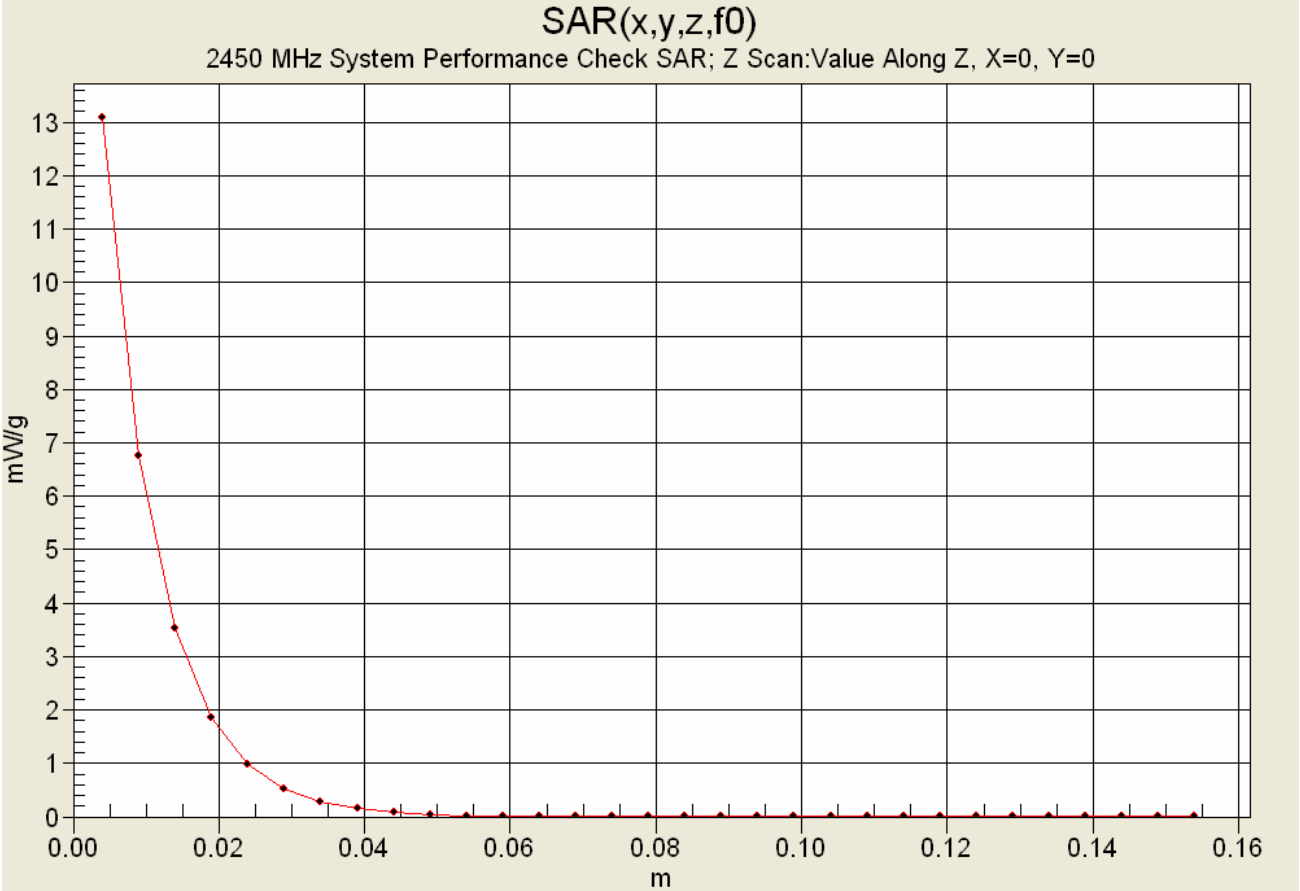
Z-Axis Scan



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APPENDIX C - MEASURED FLUID DIELECTRIC PARAMETERS

5200 MHz System Performance Check & 5200 / 5260 MHz DUT Evaluation (Body)

****

Celltech Labs Inc.
Test Result for UIM Dielectric Parameter
Thu 16/Nov/2006
Frequency (GHz)
FCC_eH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
FCC_sH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
FCC_eB FCC Limits for Body Epsilon
FCC_sB FCC Limits for Body Sigma
Test_e Epsilon of UIM
Test_s Sigma of UIM

****

Freq	FCC_eB	FCC_sB	Test_e	Test_s
5.1000	49.15	5.18	44.49	4.94
5.1100	49.14	5.19	44.61	5.00
5.1200	49.12	5.21	44.72	5.01
5.1300	49.11	5.22	44.69	4.96
5.1400	49.10	5.23	44.53	4.98
5.1500	49.08	5.24	44.62	4.94
5.1600	49.07	5.25	44.63	4.97
5.1700	49.06	5.26	44.52	5.00
5.1800	49.04	5.28	44.69	5.06
5.1900	49.03	5.29	44.49	5.09
5.2000	49.01	5.30	44.29	5.08
5.2100	49.00	5.31	44.56	5.05
5.2200	48.99	5.32	44.41	5.06
5.2300	48.97	5.33	44.35	5.12
5.2400	48.96	5.35	44.24	5.11
5.2500	48.95	5.36	44.17	5.07
5.2600	48.93	5.37	44.38	5.10
5.2700	48.92	5.38	44.41	5.16
5.2800	48.91	5.39	44.17	5.06
5.2900	48.89	5.40	44.26	5.12
5.3000	48.88	5.42	44.35	5.12

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5500 MHz System Performance Check & 5520 / 5600 MHz DUT Evaluation (Body)

****

Celltech Labs Inc.
Test Result for UIM Dielectric Parameter
Thu 16/Nov/2006
Frequency (GHz)
FCC_eH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
FCC_sH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
FCC_eB FCC Limits for Body Epsilon
FCC_sB FCC Limits for Body Sigma
Test_e Epsilon of UIM
Test_s Sigma of UIM

****

Freq	FCC_eB	FCC_sB	Test_e	Test_s
5.4000	48.74	5.53	45.92	5.30
5.4100	48.73	5.54	46.00	5.34
5.4200	48.72	5.56	45.93	5.35
5.4300	48.70	5.57	45.83	5.31
5.4400	48.69	5.58	45.60	5.36
5.4500	48.67	5.59	45.83	5.41
5.4600	48.66	5.60	45.60	5.50
5.4700	48.65	5.61	45.98	5.47
5.4800	48.63	5.63	45.98	5.49
5.4900	48.62	5.64	46.00	5.49
5.5000	48.61	5.65	45.82	5.50
5.5100	48.59	5.66	45.69	5.51
5.5200	48.58	5.67	45.96	5.55
5.5300	48.57	5.68	45.59	5.44
5.5400	48.55	5.70	45.60	5.51
5.5500	48.54	5.71	45.76	5.59
5.5600	48.53	5.72	45.62	5.74
5.5700	48.51	5.73	45.66	5.65
5.5800	48.50	5.74	45.71	5.66
5.5900	48.48	5.75	45.80	5.71
5.6000	48.47	5.77	45.92	5.70

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5800 MHz System Performance Check & 5700 / 5800 MHz DUT Evaluation (Body)

****

Celltech Labs Inc.
Test Result for UIM Dielectric Parameter
Thu 16/Nov/2006
Frequency (GHz)
FCC_eH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
FCC_sH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
FCC_eB FCC Limits for Body Epsilon
FCC_sB FCC Limits for Body Sigma
Test_e Epsilon of UIM
Test_s Sigma of UIM

****

Freq	FCC_eB	FCC_sB	Test_e	Test_s
5.7000	48.34	5.88	45.91	5.73
5.7100	48.32	5.89	45.75	5.70
5.7200	48.31	5.91	45.68	5.72
5.7300	48.30	5.92	45.66	5.65
5.7400	48.28	5.93	45.62	5.58
5.7500	48.27	5.94	45.63	5.59
5.7600	48.25	5.95	46.52	6.15
5.7700	48.24	5.96	46.22	6.15
5.7800	48.23	5.98	46.14	5.97
5.7900	48.21	5.99	45.99	6.09
5.8000	48.20	6.00	46.07	6.12
5.8100	48.19	6.01	46.09	6.10
5.8200	48.17	6.02	45.98	6.12
5.8300	48.16	6.04	46.09	6.25
5.8400	48.15	6.05	45.87	6.02
5.8500	48.13	6.06	45.86	6.19
5.8600	48.12	6.07	46.30	6.12
5.8700	48.10	6.08	45.80	6.14
5.8800	48.09	6.09	45.86	6.11
5.8900	48.08	6.11	45.67	6.21
5.9000	48.06	6.12	45.44	6.29

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5200 MHz System Performance Check & 5200 / 5260 / 5300 MHz DUT Evaluation (Body)

****

Celltech Labs Inc.
Test Result for UIM Dielectric Parameter
Tue 21/Nov/2006
Frequency (GHz)
FCC_eH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
FCC_sH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
FCC_eB FCC Limits for Body Epsilon
FCC_sB FCC Limits for Body Sigma
Test_e Epsilon of UIM
Test_s Sigma of UIM

****

Freq	FCC_eB	FCC_sB	Test_e	Test_s
5.1000	49.15	5.18	49.62	4.97
5.1100	49.14	5.19	49.65	5.03
5.1200	49.12	5.21	49.55	5.01
5.1300	49.11	5.22	49.68	5.04
5.1400	49.10	5.23	49.55	5.07
5.1500	49.08	5.24	49.64	5.05
5.1600	49.07	5.25	49.99	5.15
5.1700	49.06	5.26	49.81	5.10
5.1800	49.04	5.28	49.67	5.11
5.1900	49.03	5.29	49.73	5.15
5.2000	49.01	5.30	49.70	5.11
5.2100	49.00	5.31	49.98	5.18
5.2200	48.99	5.32	49.89	5.12
5.2300	48.97	5.33	49.73	5.15
5.2400	48.96	5.35	49.41	5.17
5.2500	48.95	5.36	49.61	5.21
5.2600	48.93	5.37	49.59	5.11
5.2700	48.92	5.38	49.63	5.23
5.2800	48.91	5.39	49.69	5.21
5.2900	48.89	5.40	49.38	5.26
5.3000	48.88	5.42	49.68	5.27

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5500 MHz System Performance Check & 5520 / 5600 / 5700 MHz DUT Evaluation (Body)

****

Celltech Labs Inc.
Test Result for UIM Dielectric Parameter
Wed 22/Nov/2006
Frequency (GHz)
FCC_eH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
FCC_sH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
FCC_eB FCC Limits for Body Epsilon
FCC_sB FCC Limits for Body Sigma
Test_e Epsilon of UIM
Test_s Sigma of UIM

****

Freq	FCC_eB	FCC_sB	Test_e	Test_s
5.4000	48.74	5.53	46.06	5.33
5.4100	48.73	5.54	46.44	5.48
5.4200	48.72	5.56	46.31	5.51
5.4300	48.70	5.57	45.83	5.62
5.4400	48.69	5.58	45.59	5.44
5.4500	48.67	5.59	46.29	5.38
5.4600	48.66	5.60	46.48	5.54
5.4700	48.65	5.61	45.96	5.48
5.4800	48.63	5.63	45.61	5.77
5.4900	48.62	5.64	45.99	5.59
5.5000	48.61	5.65	45.96	5.66
5.5100	48.59	5.66	45.82	5.65
5.5200	48.58	5.67	45.74	5.53
5.5300	48.57	5.68	45.93	5.66
5.5400	48.55	5.70	45.90	5.62
5.5500	48.54	5.71	46.37	5.71
5.5600	48.53	5.72	45.33	5.56
5.5700	48.51	5.73	45.29	5.76
5.5800	48.50	5.74	46.14	5.80
5.5900	48.48	5.75	45.65	5.67
5.6000	48.47	5.77	45.68	5.79
5.6100	48.46	5.78	45.56	5.75
5.6200	48.44	5.79	45.80	5.80
5.6300	48.43	5.80	45.51	5.99
5.6400	48.42	5.81	45.92	5.67
5.6500	48.40	5.82	45.32	5.71
5.6600	48.39	5.84	46.05	5.92
5.6700	48.38	5.85	45.70	5.61
5.6800	48.36	5.86	46.32	5.81
5.6900	48.35	5.87	45.51	5.69
5.7000	48.34	5.88	45.54	5.85
5.7100	48.32	5.89	45.66	5.94
5.7200	48.31	5.91	45.18	5.90
5.7300	48.30	5.92	45.23	5.92
5.7400	48.28	5.93	45.53	6.03
5.7500	48.27	5.94	45.52	5.95

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5800 MHz System Performance Check & DUT Evaluation (Body)

****

Celltech Labs Inc.
Test Result for UIM Dielectric Parameter
Thu 23/Nov/2006
Frequency (GHz)
FCC_eH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
FCC_sH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
FCC_eB FCC Limits for Body Epsilon
FCC_sB FCC Limits for Body Sigma
Test_e Epsilon of UIM
Test_s Sigma of UIM

****

Freq	FCC_eB	FCC_sB	Test_e	Test_s
5.7000	48.34	5.88	45.45	5.87
5.7100	48.32	5.89	45.48	5.92
5.7200	48.31	5.91	45.34	5.89
5.7300	48.30	5.92	45.22	5.92
5.7400	48.28	5.93	45.09	5.97
5.7500	48.27	5.94	44.97	5.92
5.7600	48.25	5.95	45.21	5.90
5.7700	48.24	5.96	45.42	5.91
5.7800	48.23	5.98	45.22	6.01
5.7900	48.21	5.99	45.38	5.94
5.8000	48.20	6.00	45.05	6.06
5.8100	48.19	6.01	45.32	6.01
5.8200	48.17	6.02	45.10	6.05
5.8300	48.16	6.04	45.28	6.03
5.8400	48.15	6.05	45.47	6.06
5.8500	48.13	6.06	45.14	6.14
5.8600	48.12	6.07	45.08	6.13
5.8700	48.10	6.08	44.93	6.05
5.8800	48.09	6.09	45.02	6.05
5.8900	48.08	6.11	45.01	6.06
5.9000	48.06	6.12	45.14	6.02

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2450 MHz System Performance Check & DUT Evaluation (Body)

****

Celltech Labs Inc.
Test Result for UIM Dielectric Parameter
Mon 27/Nov/2006
Frequency (GHz)
FCC_eH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
FCC_sH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
FCC_eB FCC Limits for Body Epsilon
FCC_sB FCC Limits for Body Sigma
Test_e Epsilon of UIM
Test_s Sigma of UIM

****

Freq	FCC_eB	FCC_sB	Test_e	Test_s
2.3500	52.83	1.85	50.70	1.87
2.3600	52.82	1.86	50.75	1.88
2.3700	52.81	1.87	50.77	1.90
2.3800	52.79	1.88	50.78	1.90
2.3900	52.78	1.89	50.65	1.90
2.4000	52.77	1.90	50.60	1.92
2.4100	52.75	1.91	50.62	1.93
2.4200	52.74	1.92	50.62	1.94
2.4300	52.73	1.93	50.54	1.95
2.4400	52.71	1.94	50.62	1.97
2.4500	52.70	1.95	50.53	1.98
2.4600	52.69	1.96	50.52	2.00
2.4700	52.67	1.98	50.64	2.00
2.4800	52.66	1.99	50.54	2.01
2.4900	52.65	2.01	50.46	2.02
2.5000	52.64	2.02	50.45	2.03
2.5100	52.62	2.04	50.47	2.04
2.5200	52.61	2.05	50.48	2.08
2.5300	52.60	2.06	50.50	2.08
2.5400	52.59	2.08	50.42	2.09
2.5500	52.57	2.09	50.28	2.11

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APPENDIX D - MANUFACTURER'S TISSUE SIMULANT DATA SHEET

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Schmid & Partner Engineering AG

s p e a g

Zeughausstrasse 43, 8004 Zurich, Switzerland
Phone +41 1 245 9700, Fax +41 1 245 9779
info@speag.com, http://www.speag.com

Material Safety Data Sheet

1 Identification of the substance and of the manufacturer / origin

Item	Head Tissue Simulation Liquid HSL5800 Muscle Tissue Simulation Liquid MSL 5800
Type No	SL AAH 580, SL AAM 580
Series No	N/A
Manufacturer / Origin	Schmid & Partner Engineering AG Zeughausstrasse 43 8004 Zürich Switzerland Phone +41 1 245 9700, Fax +41 1 245 9779, support@speag.com

Use of the substance:
Liquid simulating physical parameters of Head or Muscle Tissue in the RF range to 6GHz.

2 Composition / Information on ingredients

The Item is composed of the following ingredients:

Water	64 - 78%
Mineral Oil	11 - 18%
Emulsifiers	9 - 15%
Additives and Salt	2 - 3%

Safety relevant ingredients according to EU directives:

CAS-No 107-41-5	< 4%	2-Methyl-2,4-pentandiol (Hexylene Glycol): Xi irritant, R36/38 irritant for eyes and skin
CAS-No 770-35-4	< 2%	1-Phenoxy-2-propanol (Propylene Glycol Phenyl Ether): Xi irritant, R36 irritant for eyes
CAS-No 93-83-4	< 2%	N,N-bis(2-Hydroxyethyl)oleamide: Xi irritant, R36/38 irritant for eyes and skin
CAS-No 9004-95-9	< 0.5%	Polyethylene glycol cetyl ether: Xi irritant, R22 harmful if swallowed, R36/38 irritant for eyes and skin R50 Very toxic to aquatic organisms

According to EU guidelines and Swiss rules, the product is not a dangerous mixture and therefore not required to be marked by symbols.

3 Hazards identification

Identification not required.

4 First aid measures

The product reacts slightly alkaline.

After skin contact:	Wash with fresh water and mild sope
After eye contact:	Rinse out with plenty of water for several minutes with the eyelid held open. Consult an ophthalmologist if necessary.
After ingestion:	Do not induce vomiting. Get medical attention.

5 Fire-fighting measures

Firefighting media	CO2, foam, dry chemical
Combustion products	Carbon oxides, nitrogen and traces of oxides of chlorine and sulfur, HCl

Due to the high water content, the liquid is self-extinguishing.

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6 Accidental release measures

Person-related precaution measures: wash with water and mild soap.
Environmental-protection measures: do not allow to enter sewerage system.
Procedures for cleaning / absorption: Use oil-binding agents., forward for disposal. Spills may cause slippery conditions.

7 Handling and storage

Handling: Keep in open container only for minimum required time in order to avoid water evaporation.
Storage: tightly closed, between >0 to 40°C. Avoid direct solar irradiation of the storage containers.

8 Exposure controls / personal protection

Protection measures are not generally required. For eye protection, industrial safety glasses are recommended.
Personal hygiene and clean working practices are sufficient.

9 Physical and chemical properties

Form:	liquid
Colour:	medium to dark brown, transparent to opaque
Odour:	almost odourless / slightly oily
pH-Value:	slightly alcalic
Boiling point:	100°C
Density:	1g/cm^3

10 Stability and reactivity

Conditions to be avoided: heating above 40°C
The product contains water and is not compatible with strong oxidizers or magnesium.

11 Toxicological information

LD50 > 40 g/kg
Further data: the product should be handled with the care usual when dealing with chemicals

12 Ecological information

Contains mineral oil. Do not allow to enter waters, waste water, or soil!

13 Disposal considerations

Disposal is possible by splitting the mineral oil from the emulsion with absorbing agents, with salt or ultra-filtration. Dispose as other mineral oil containing products according to local regulations.
Product packing must be disposed of in compliance with respect national regulations.

14 Transport information

Not subject to transport regulations.

15 Regulatory information

No special labelling required.

16 Other information

Release date:	6.1.2005
Responsible:	FB

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APPENDIX H - PLANAR PHANTOM CERTIFICATE OF CONFORMITY

2378 Westlake Road
Kelowna, B.C. Canada
V1Z-2V2

BARSKI INDUSTRIES (1985) LTD.

Ph. # 250-769-6848
Fax # 250-769-6334
E-mail: barskiind@shaw.ca
Web: www.bcfiberglass.com

FIBERGLASS FABRICATORS

Certificate of Conformity

Item : Flat Planar Phantom Unit # 03-01
Date: June 16, 2003
Manufacturer: Barski Industries (1985 Ltd)

Test	Requirement	Details
Shape	Compliance to geometry according to drawing	Supplied CAD drawing
Material Thickness	Compliant with the requirements	2mm +/- 0.2mm in measurement area
Material Parameters	Dielectric parameters for required frequencies Based on Dow Chemical technical data	100 MHz-5 GHz Relative permittivity<5 Loss Tangent<0.05

Conformity

Based on the above information, we certify this product to be compliant to the requirements specified.

Signature: _____

Daniel Chailler

Fiberglass Planar Phantom - Top View

Fiberglass Planar Phantom - Front View

Fiberglass Planar Phantom - Back View

Fiberglass Planar Phantom - Bottom View

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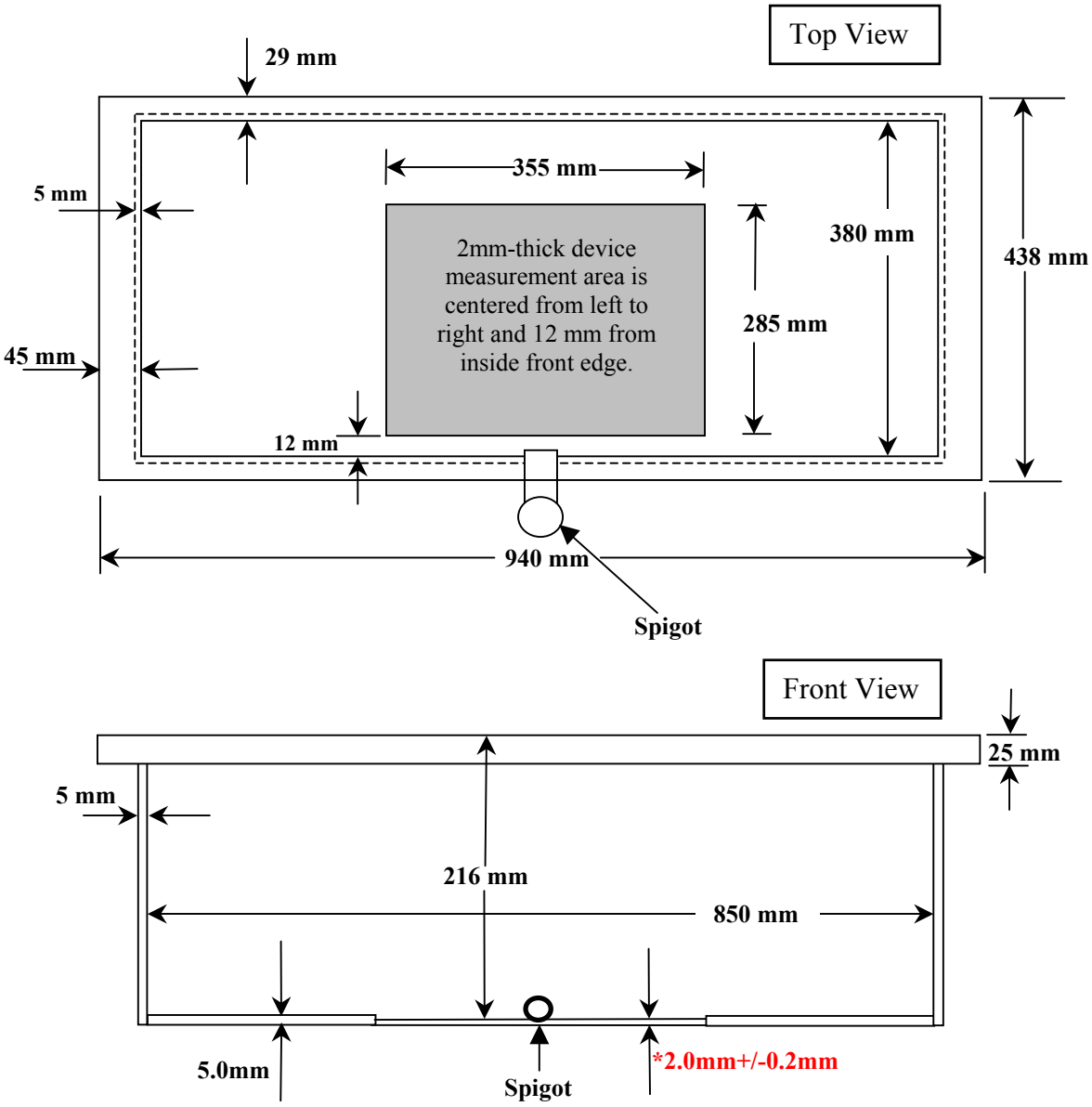
Dimensions of Fiberglass Planar Phantom

(Manufactured by Barski Industries Ltd. - Unit# 03-01)



Note: Measurements that aren't repeated for the opposite sides are the same as the side measured. This drawing is not to scale.

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