

Prepared (also subject responsible if other) SEM/CV/PF/P William Stewart		No. EUS/CV/R-01:1078/REP	
Approved SEM/CV/PF/P Mark Douglas	Checked MGD	2001-11-18	A N:\SAR chamber\T60ds.doc

SAR Test Report: T60ds (AXATR-422-A2)

Date of test: November 13-15, 2001

Laboratory: SAR Testing Laboratory
Sony Ericsson Mobile Communications, Inc.
7001 Development Drive, P.O. Box 13969,
Research Triangle Park, NC, 27709, USA



Tested by: William Stewart
Development Engineer, Antenna Development Group

Test Responsible: Mark Douglas, Ph.D.
Senior Technical Leader, Antenna Development Group

Accreditation: This laboratory is accredited to ISO/IEC 17025-1999 to perform the following electromagnetic tests: Specific Absorption Rate (SAR), dielectric parameters, and RF power measurement on the following types of products: Wireless communications devices.

A2LA certificate Number: 1650-01

Statement of Compliance: Sony Ericsson Mobile Communications, Inc. declares under its sole responsibility that the product

T60ds
FCC ID: AXATR-422-A2

to which this declaration relates, is in conformity with the appropriate RF exposure standards, recommendations and guidelines. It also declares that the product was tested using specifications that closely conform to the latest appropriate measurement standards, guidelines and recommended practices. Any deviations from these specifications or from ISO/IEC 17025-1999 are noted below:

Uncalibrated thermometers were used for liquid temperature measurement. The thermometers were verified against calibrated thermometers in air and are therefore believed to be accurate.

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Table of Contents

1. Introduction	3
2. Device Under Test	3
2.1 Antenna description	3
2.2 Device description	3
3. Test equipment	3
3.1 Dosimetric system	3
3.2 Additional calibrated equipment	4
4. Electrical parameters of the tissue simulating liquid	4
5. System accuracy verification	5
6. Test results	5
6.1 Results for head	5
6.2 Results against the body	6
References	7
Appendix 1: SAR distribution comparison for system accuracy verification	8
Appendix 2: SAR distribution plots	13
Appendix 3: Photographs of Device Under Test	17
Appendix 4: Position of Device on Phantom	20
Appendix 5: Probe calibration parameters	23

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Approved SEM/CV/PF/P Mark Douglas	Checked MGD	2001-11-18	A	N:\SAR chamber\T60ds.doc

1. Introduction

In this report, compliance of the T60ds wireless handset with RF safety guidelines is demonstrated. The applicable RF safety guidelines and the SAR measurement specifications used for the test are described in [1].

2. Device Under Test

2.1 Antenna description

Type	Internal antenna	
Location	Inside the back cover, near the top	
Dimensions	Maximum length	38 mm
	Maximum width	51 mm
Configuration	Patch antenna	

2.2 Device description

Device model	T60ds	
FCC ID	AXATR-422-A2	
Serial number	UA2020LW06	
Mode	800 AMPS	800 TDMA
Multiple Access Scheme	FDMA	TDMA
Maximum Output Power Setting ¹	26.0 dBm	26.0 dBm
Factory Tolerance in Power Setting	± 0.25	± 0.25
Maximum Peak Output Power ²	26.25 dBm	26.25 dBm
Duty Cycle	1	1 / 3
Transmitting Frequency Range	824 – 849 MHz	824-849 MHz
Prototype or Production Unit	Prototype	
Device Category ³	Portable	
RF exposure environment [2]	General population / uncontrolled	

3. Test equipment

3.1 Dosimetric system

Description	Serial Number	Due Date
DASY3 DAE V1	431	05/2002
E-field probe ET3DV6	1539	01/2002
Dipole Validation Kit, D835V2	428	12/2002
Dipole Validation Kit, D900V2	049	01/2003

¹ This is the peak conducted power measured at the antenna port when the device is set to its highest power setting. It is measured at the middle of the transmit frequency band. Note that the output power may be different at other frequencies.

² This equals the maximum output power setting plus the factory tolerance.

³ The device is categorized as either mobile or portable according to United States Code of Federal Regulations 47 CFR §§ 2.1091 and 2.1093.

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Approved SEM/CV/PF/P Mark Douglas	Checked MGD	2001-11-18	A	N:\SAR chamber\T60ds.doc

3.2 Additional calibrated equipment

Description	Serial Number	Due Date
Signal Generator HP8648C	3537A01598	9/2002
Dielectric probe kit HP 85070B	US33020390	3/2002
Network analyzer HP 8752C	3410A03105	7/2002
Power meter HP 437B	3125U12026	6/2002
Power sensor HP 8482H	3318A07097	2/2002
Power meter HP 437B	3125U113481	6/2002
Power sensor HP 8482H	MY41090240	6/2002
Power meter HP 437B	3125U13729	1/2002
Power sensor HP 8482H	MY41090239	6/2002
Hygrometer/Thermometer	21242911	10/2002
Thermometer FS15043A	8813	N/A
Thermometer FS15043A	94-29884	N/A
Spectrum Analyzer MS2623A	M07418	10/2002

4. Electrical parameters of the tissue simulating liquid

Prior to conducting SAR measurements, the relative permittivity, ϵ_r , and the conductivity, σ , of the tissue simulating liquids were measured with the dielectric probe kit. These values, as well as, the temperature/humidity of the test facility, and the temperature/depth of the tissue simulant during the measurements are shown in the table below. The mass density, ρ , entered into the DASY3 program is also given. Recommended values for permittivity, conductivity and mass density are also shown. It is seen that the measured parameters are within tolerance of the recommended limits.

f (MHz)	Tissue type	Limits / Measured	Dielectric Parameters			Ambient Temp. (°C)	Simulant		Humidity (%)
			ϵ_r	σ (S/m)	ρ (g/cm ³)		Temp (°C)	Depth (mm)	
835	Head	Measured, 11/13/01	41.97	0.91	1.00	23.4	22.8	157	36.1
		Measured, 11/14/01	41.74	0.91	1.00	22.0	22.6	157	38.0
		Recommended ⁴	41.5	0.90	1.00	20 – 25	--	>150	30-70
	Body	Measured, 11/15/01	55.76	0.97	1.00	20.8	22.6	161	40.9
		Recommended ⁵	55.2	0.97	1.00	20 – 25	--	>150	30-70
900	Body	Measured, 11/15/01	55.22	1.04	1.00	20.8	22.6	161	40.9
		Recommended ⁵	55.0	1.05	1.00	20 – 25	--	>150	30-70

⁴ For head parameters, recommended dielectric parameters are those given by [2] and [3]. Measured dielectric parameters also comply with closest tabulated values in [4].

⁵ For body parameters, recommended dielectric parameters are those given by [2]. No specifications for body parameters are given in [3,4].

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5. System accuracy verification

A system accuracy verification of the DASY3 was performed using the dipole validation kits listed in Section 3.1. The system verification test was conducted on the same day as the measurement of the DUT. The obtained results are displayed in the table below (SAR values are scaled to 1 Watt power delivered to the antenna). It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values. Reference values are taken from IEEE P1528 for 835MHz head simulant and from the manufacturer for 900MHz body simulant. The distributions of SAR compare well with those of the reference measurements (see Appendix 1). Also shown are the temperature/humidity of the test facility, and the temperature/depth of the tissue simulant during the test.

Daily, prior to conducting tests, measurements were made with RF sources powered off to determine system noise. The highest system noise value was 0.0012 W/kg, which is below the recommended limit [2].

f MHz	Tissue type	Measured / Reference	SAR (W/kg) 1 g/10 g	Dielectric Parameters			Ambient Temp. (°C)	Simulant		Humidity (%)
				ϵ_r	σ (S/m)	ρ (g/cm ³)		Temp. (°C)	Depth (mm)	
835	Head	Measured, 11/13/01	9.79 / 6.35	41.97	0.91	1.00	23.4	22.9	157	36.4
		Measured, 11/14/01	9.71 / 6.28	41.74	0.91	1.00	22.5	22.7	157	37.5
		Reference ⁶ (IEEE P1528)	9.5 / 6.2	41.5	0.90	1.00	18 - 25	+/-2.0 of value in §4	>150	--
900	Body	Measured, 11/15/01	10.78/6.92	55.22	1.04	1.00	21.2	22.4	161	41.6
		Reference (SPEAG)	11.1 / 7.1	56.1	0.99	1.00	--	--	--	--

6. Test results

The measured 1- and 10-gram averaged SAR values of the device are provided in Tables 1 and 2. Also shown are the measured conducted output powers and the temperature of the tissue simulant during the test. The depth of the tissue simulating liquid was at least 15 cm for all the cases. The humidity and ambient temperature of the test facility were within 30%-70% and 20-26°C respectively. Test commands were used to control the device during the SAR measurements. The phone was supplied with a fully charged battery for the tests.

6.1 Results for head

SAR measured against the head, using battery BKB-193-1052 (900mAh) is presented in Table 1. The device was tested on the right-hand phantom (corresponding to the right side of the head) and the left-hand phantom using both the "Cheek" and "Tilted" positions. For 800 AMPS, the device was tested at the lowest, middle, and highest frequencies of the transmit band. For 800 TDMA mode, the maximum power is significantly lower than that of AMPS mode, therefore SAR values are also lower and not listed.

⁶ Since SAR reference values are from [3] (no reference values are provided in [2,4]), the temperature and humidity specifications provided in the table are also from [3]. However, measured values of temperature and humidity also comply with the specifications of [2,4].

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Mode / Battery	f (MHz)	Output Power (dBm)	Left hand (CHEEK)			Right hand (CHEEK)		
			Simulant Temps. (°C)	SAR, 1g /10g (W/kg)		Simulant Temps. (°C)	SAR, 1g /10g (W/kg)	
				measured	Calculated to max. power		measured	Calculated to max. power
800 AMPS / BKB-193-1052	824	26.04	22.9	1.21/0.82	1.26/0.85	22.6	0.99\0.73	1.03\0.76
	837	26.07	22.9	1.08/0.73	1.13/0.76	22.6	0.88\0.64	0.92\0.67
	849	25.96	22.8	0.96/0.64	1.00/0.67	22.7	0.82\0.59	0.85\0.62
			Left hand (TILT)			Right hand (TILT)		
800 AMPS / BKB-193-1052	824	26.04	23.1	0.95/0.64	0.99/0.67	22.7	0.79\0.55	0.82\0.57
	837	26.07	23.0	0.80\0.53	0.83\0.55	22.7	0.61\0.42	0.64\0.44
	849	25.96	23.0	0.70\0.47	0.73\0.49	22.7	0.62\0.43	0.65\0.45

Table 1: SAR measurement results for the T60ds telephone at highest possible output power. Measured against the head.

6.2 Results against the body

SAR measured against the body, using battery BKB-193-1052 (900mAh) is presented in Table 2. For body worn measurements, the device was tested against a flat phantom, representing the user's body, using carry accessory SXX 109 4705 and hands free accessory RLF-501-25/03. For 800 AMPS, the device was tested at the lowest, middle, and highest frequencies of the transmit band. For 800 TDMA mode, the maximum power is significantly lower than that of AMPS mode, therefore SAR values are also lower and not listed.

Mode	f (MHz)	Output Power (dBm)	SXX 109 4705		
			Simulant Temp. (°C)	SAR, 1g /10g (W/kg)	
				measured	Calculated to max. power
800 AMPS Back of phone facing the body	824	26.04	22.4	0.97/0.69	1.01/0.72
	837	26.07	22.4	0.82/0.58	0.85/0.60
	849	25.96	22.4	0.71/0.50	0.74/0.52
800 AMPS Front of phone facing the body	824	26.04	22.6	0.63/0.46	0.66/0.48
	837	26.07	22.6	0.56/0.40	0.58/0.42
	849	25.96	22.4	0.42/0.30	0.44/0.31

Table 2: SAR measurement results for the T60ds telephone at highest possible output power. Measured against the body using carry accessory SXX 109 4705 with hands free accessory RLF 501 25/03.

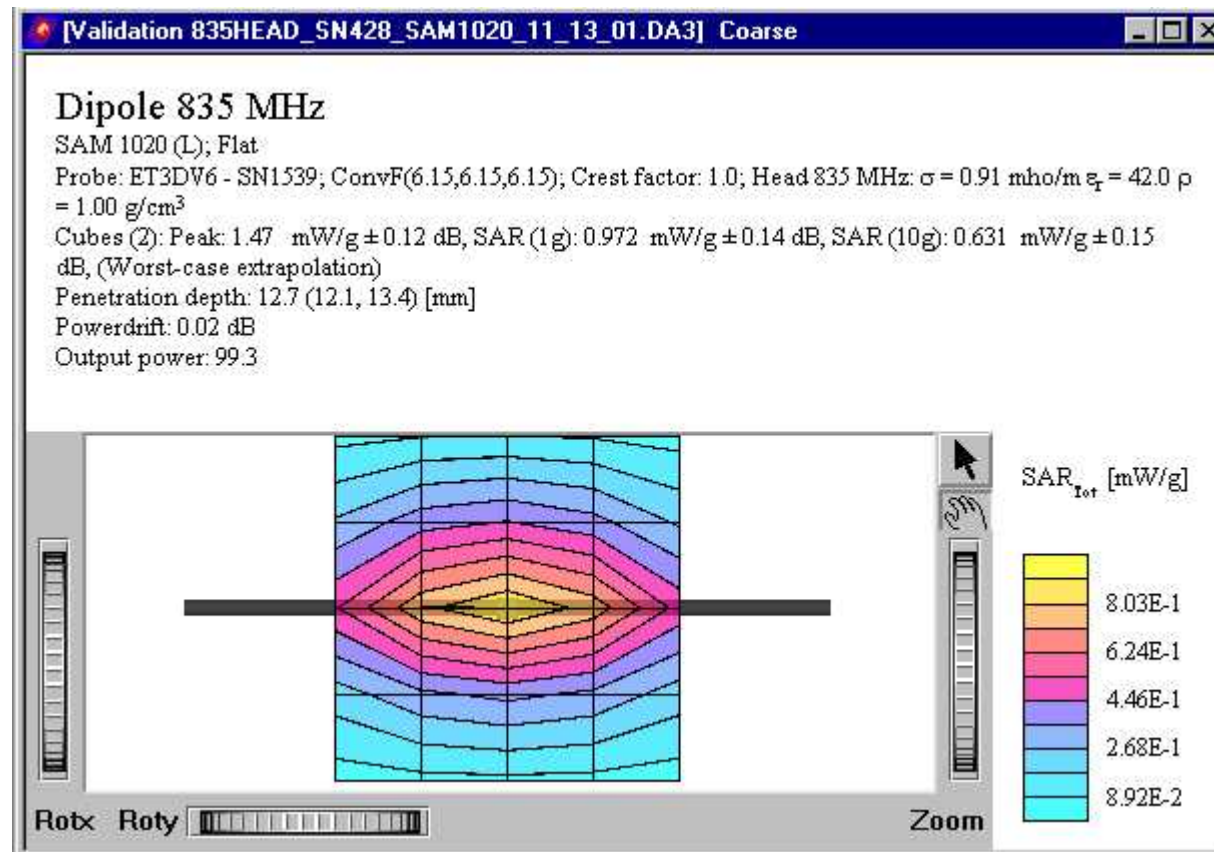
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References

- [1] M. Douglas, "SAR Measurement Specification of Mobile Phones," Sony Ericsson internal document EUS/CV/R-01:1061/REP, November 2001.
- [2] FCC, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields: Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions," Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97-01).
- [3] IEEE, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," Std 1528-200X, Draft 6.5 – August 20, 2001.
- [4] CENELEC, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz – 3 GHz)", European Standard EN 50361, July 2001.

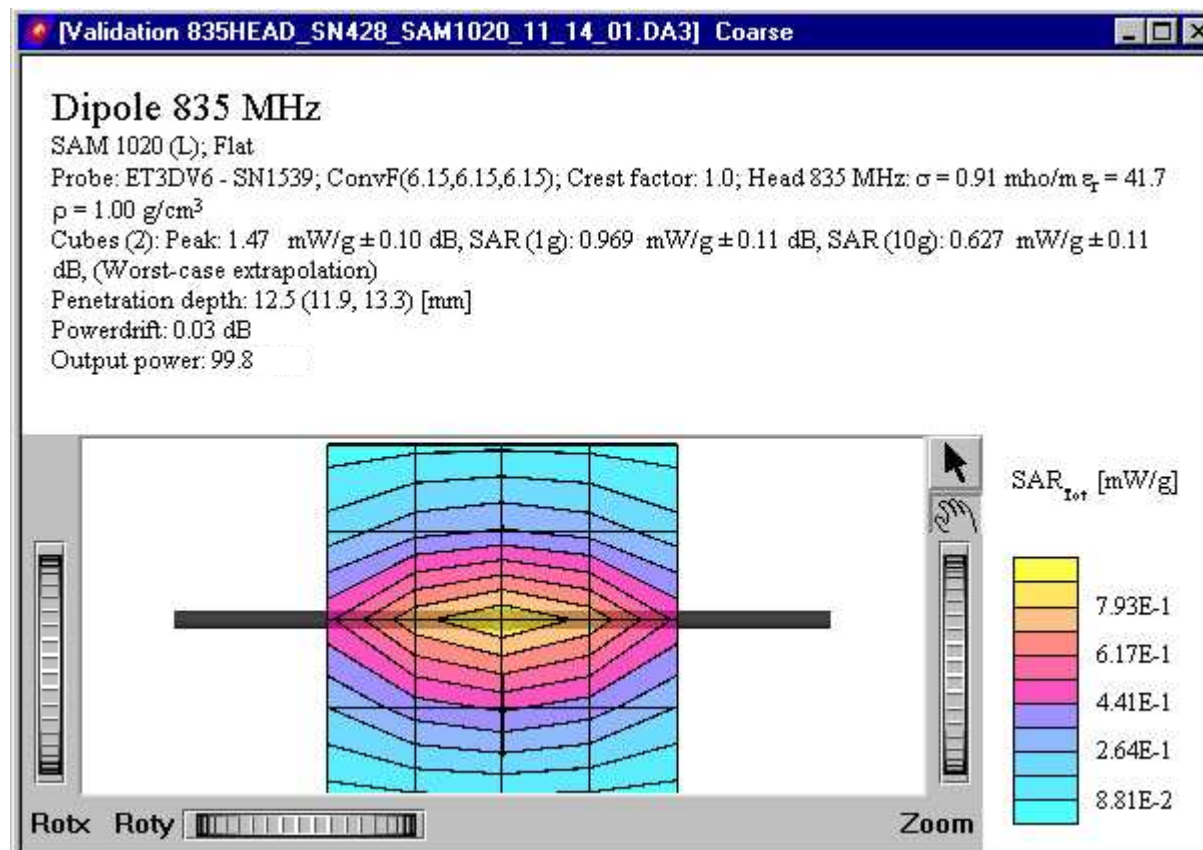
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Appendix 1: SAR distribution comparison for system accuracy verification



835 MHz SAR distribution of validation dipole antenna from system accuracy verification test on November 13, 2001.
Using head tissue.

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835 MHz SAR distribution of validation dipole antenna from system accuracy verification test on November 14, 2001.
Using head tissue.

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12/20/00

Validation Dipole D835V2 SN:428, d = 15 mm

Frequency: 835 MHz; Antenna Input Power: 250 [mW]

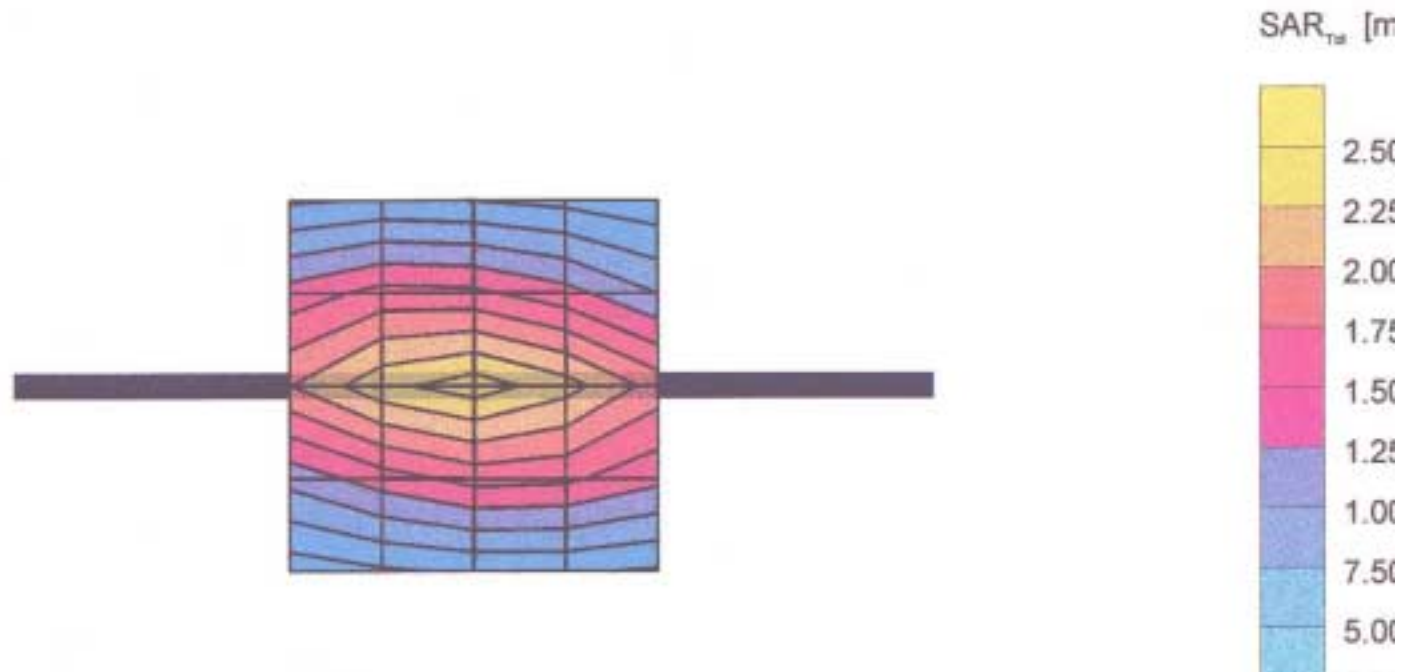
Generic Twin Phantom; Flat Section; Grid Spacing: Dx = 15.0, Dy = 15.0, Dz = 10.0

Probe: ET3DV6 - SN1507; ConvF(8.50,6.50,6.50) at 900 MHz; IEEE1528 835 MHz; $\sigma = 0.88$ mho/m $\epsilon_r = 42.5$ $\rho = 1.00$ g/cm³

Cubes (2): Peak: 3.85 mW/g ± 0.05 dB, SAR (1g): 2.42 mW/g ± 0.02 dB, SAR (10g): 1.56 mW/g ± 0.01 dB, (Worst-case extrapolation)

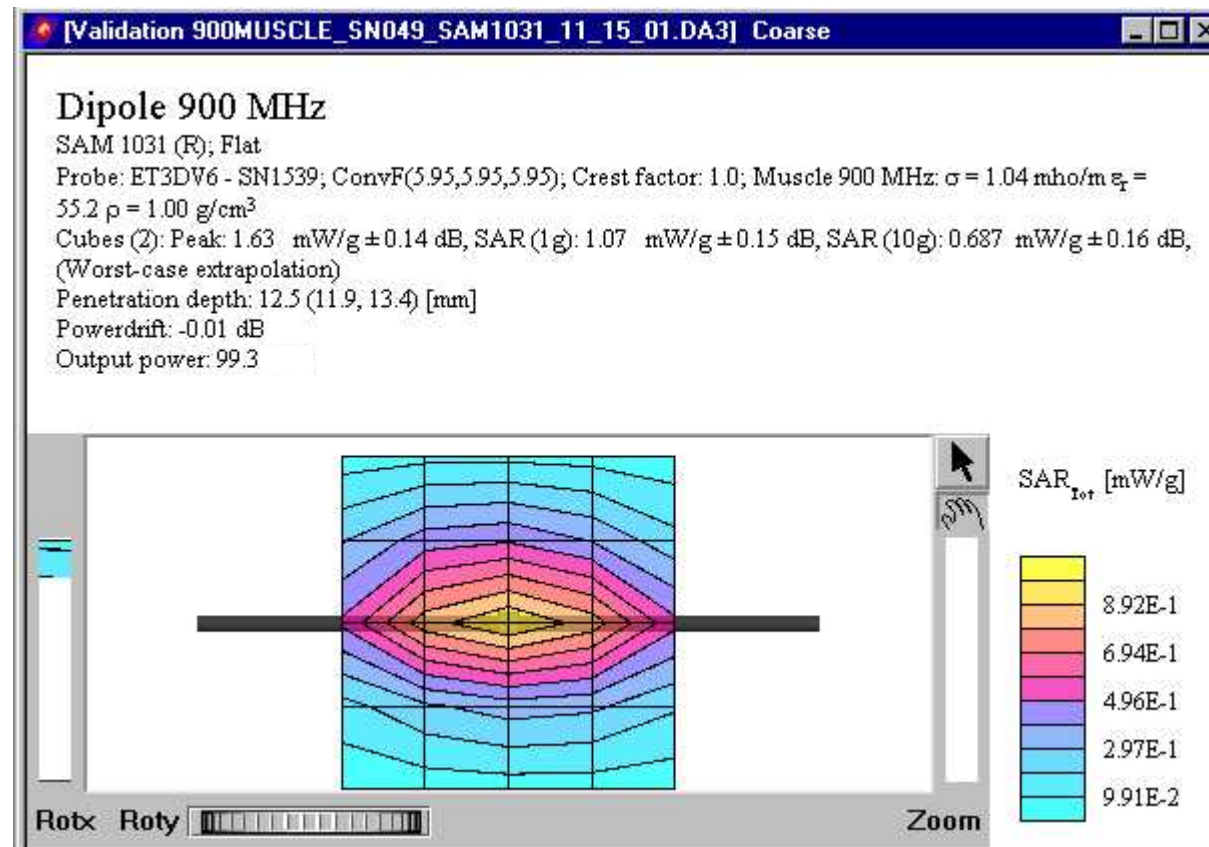
Penetration depth: 12.2 (10.7, 14.0) [mm]

Powerdrift: 0.00 dB



835 MHz SAR distribution of validation dipole antenna from reference measurement. Using head tissue.

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900 MHz SAR distribution of validation dipole antenna from system accuracy verification test on November 15, 2001. Using muscle tissue.

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Validation Dipole D900V2 SN:049, d = 15 mm

Frequency: 900 MHz; Antenna Input Power: 250 [mW]

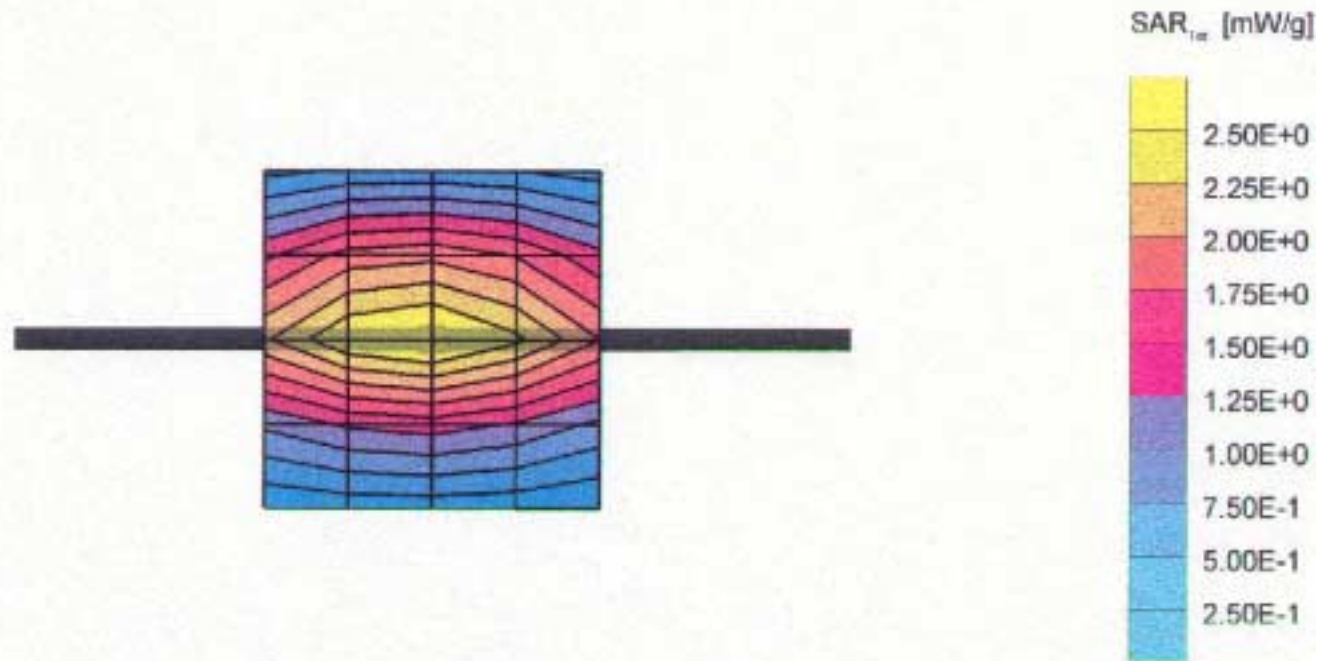
Generic Twin Phantom; Flat Section; Grid Spacing: Dx = 15.0, Dy = 15.0, Dz = 10.0

Probe: ET3DV6 - SN1507; ConvF(6.17,6.17,6.17) at 900 MHz; Muscle 900 MHz; $\sigma = 0.99 \text{ mho/m}$ $\epsilon_r = 56.1$ $\rho = 1.00 \text{ g/cm}^3$

Cubes (2): Peak: 4.42 mW/g $\pm 0.03 \text{ dB}$; SAR (1g): 2.77 mW/g $\pm 0.02 \text{ dB}$; SAR (10g): 1.77 mW/g $\pm 0.02 \text{ dB}$; (Worst-case extrapolation)

Penetration depth: 12.2 (10.7, 14.2) [mm]

Powerdrift: -0.01 dB

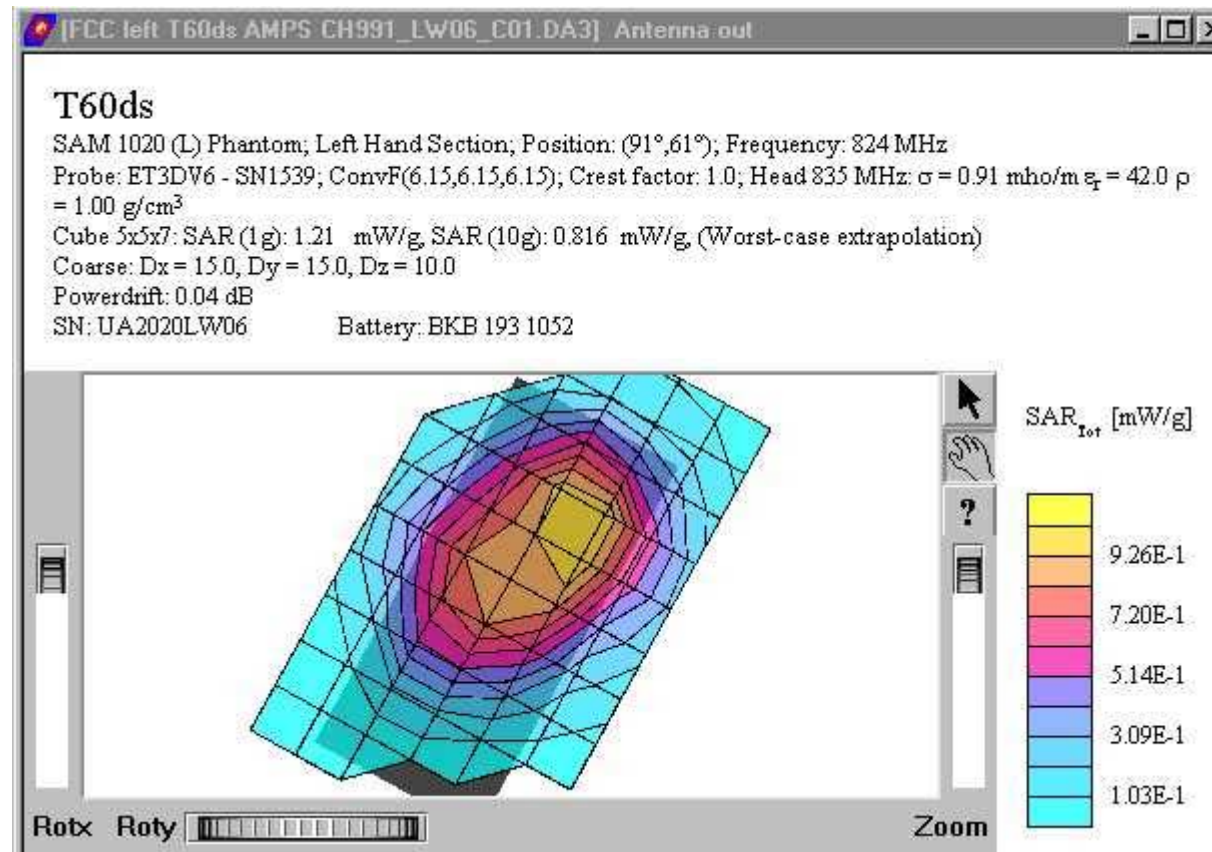


Schmid & Partner Engineering AG, Zurich, Switzerland

900 MHz SAR distribution of validation dipole antenna from reference measurement. Using muscle tissue.

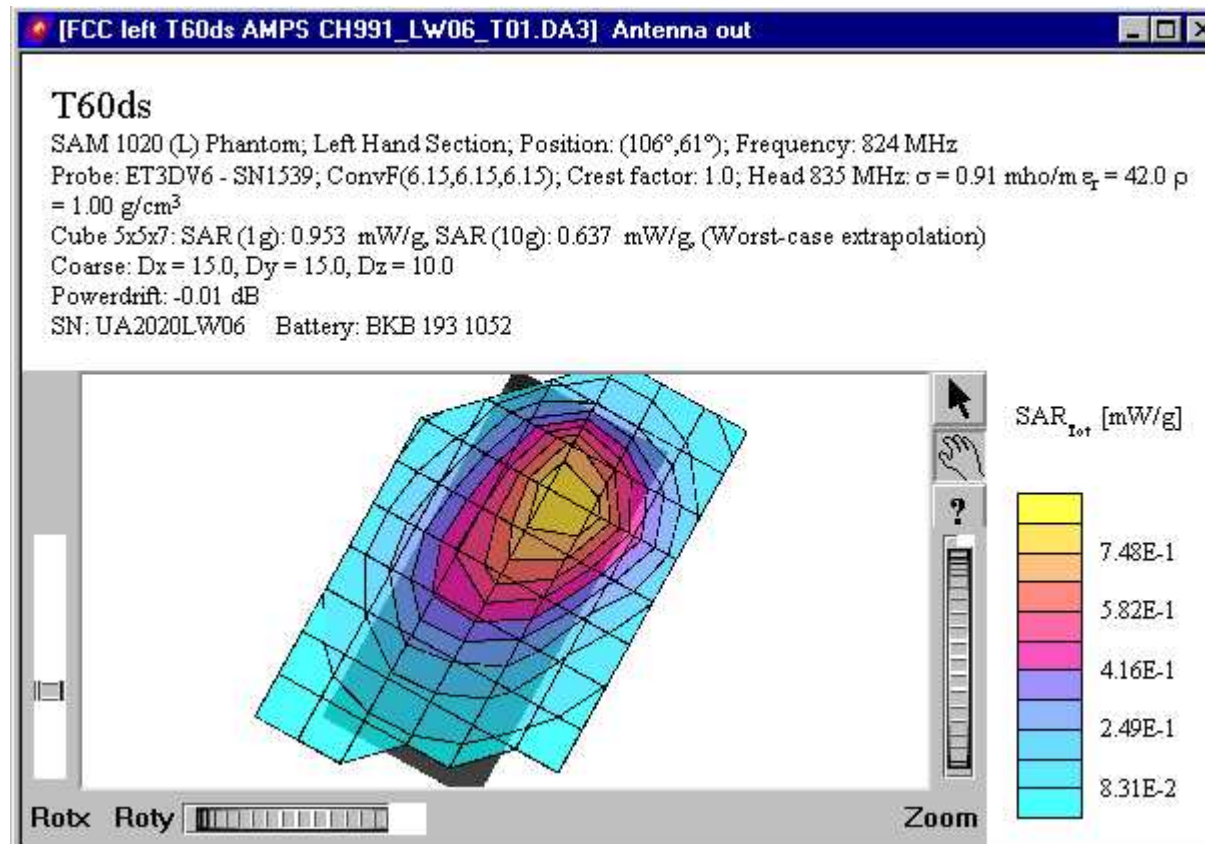
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Appendix 2: SAR distribution plots



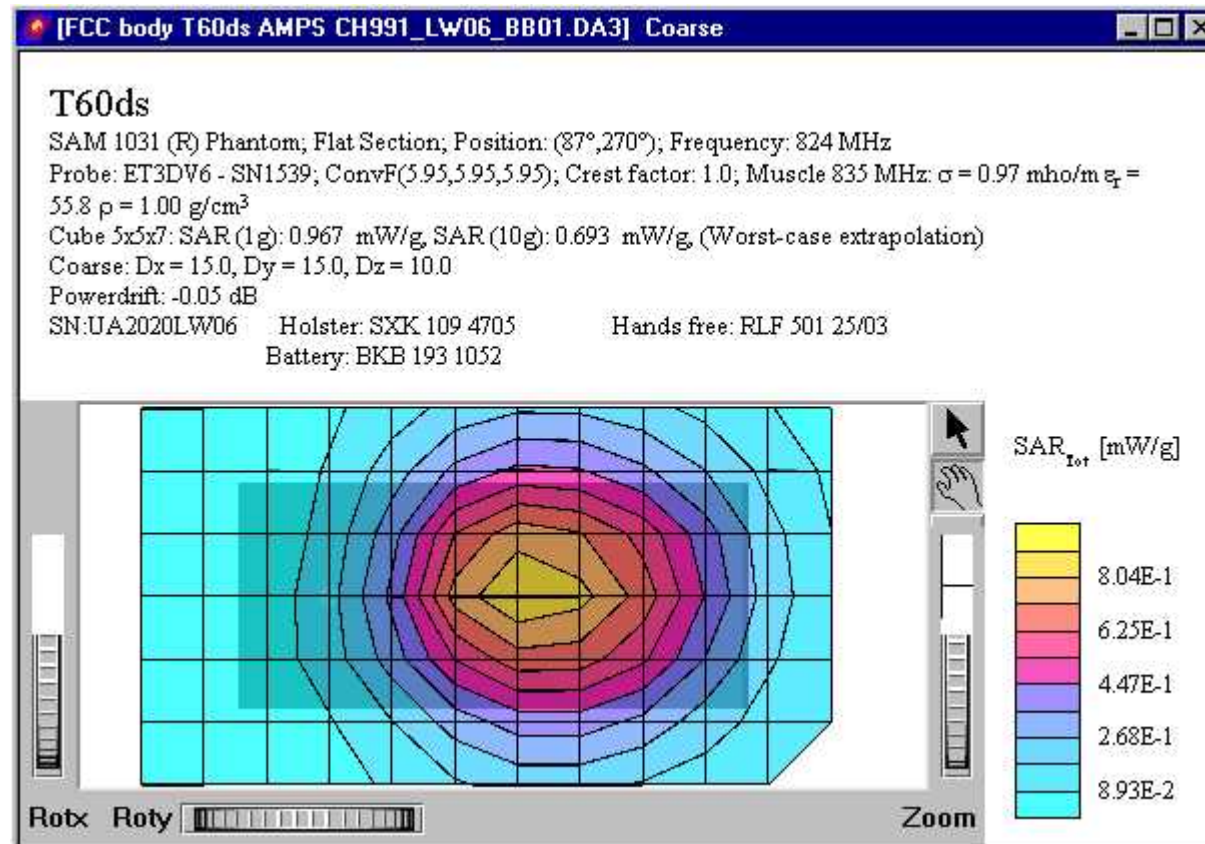
Distribution of maximum SAR in 800 AMPS band. Measured against the head in the “Cheek” position.

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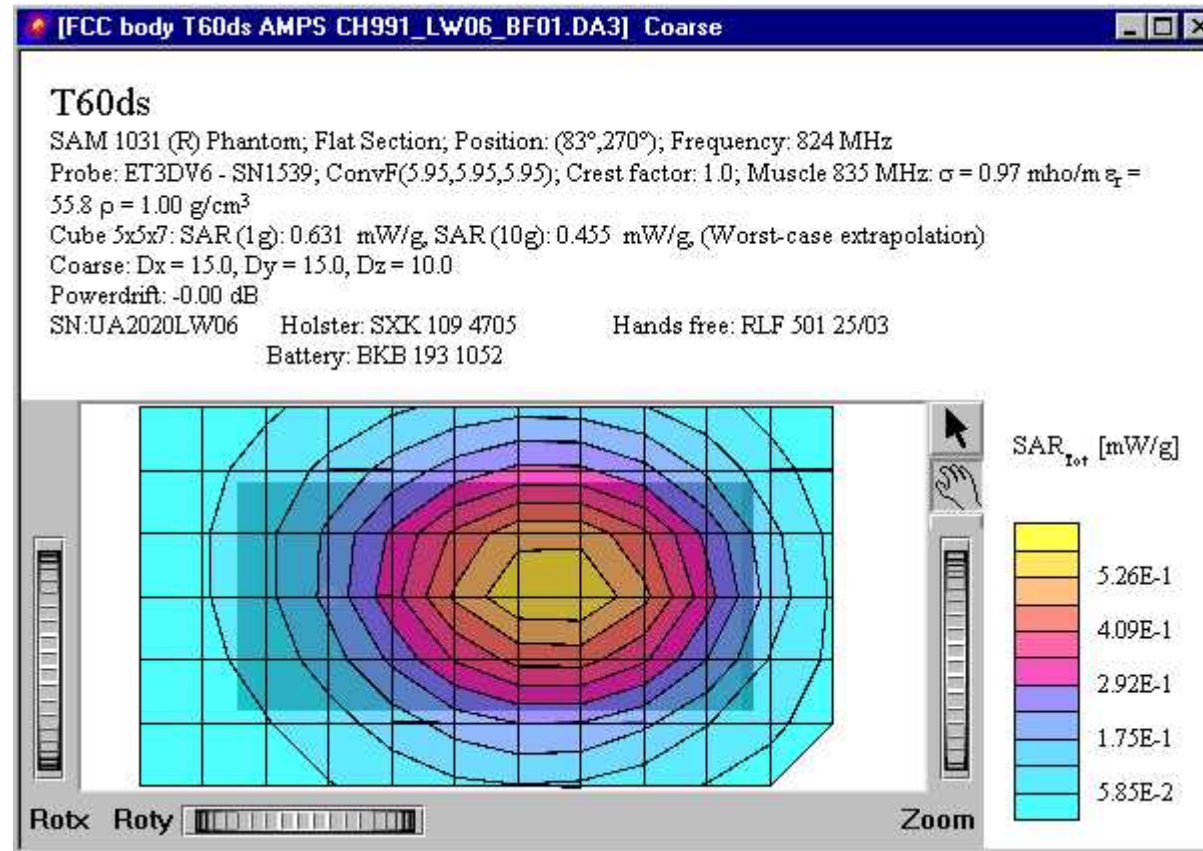
Distribution of maximum SAR in 800 AMPS band. Measured against the head in the "Tilt" position.

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Distribution of maximum SAR in 800 AMPS band. Measured with back of device facing the body using carry accessory SXX 109 4705 and hands free accessory RLF 501 25/03.

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Distribution of maximum SAR in 800 AMPS band. Measured with front of device facing the body using carry accessory SXX 109 4705 and hands free accessory RLF 501 25/03.

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Appendix 3: Photographs of Device Under Test



Front view of device



Back view of device

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Side view of device.

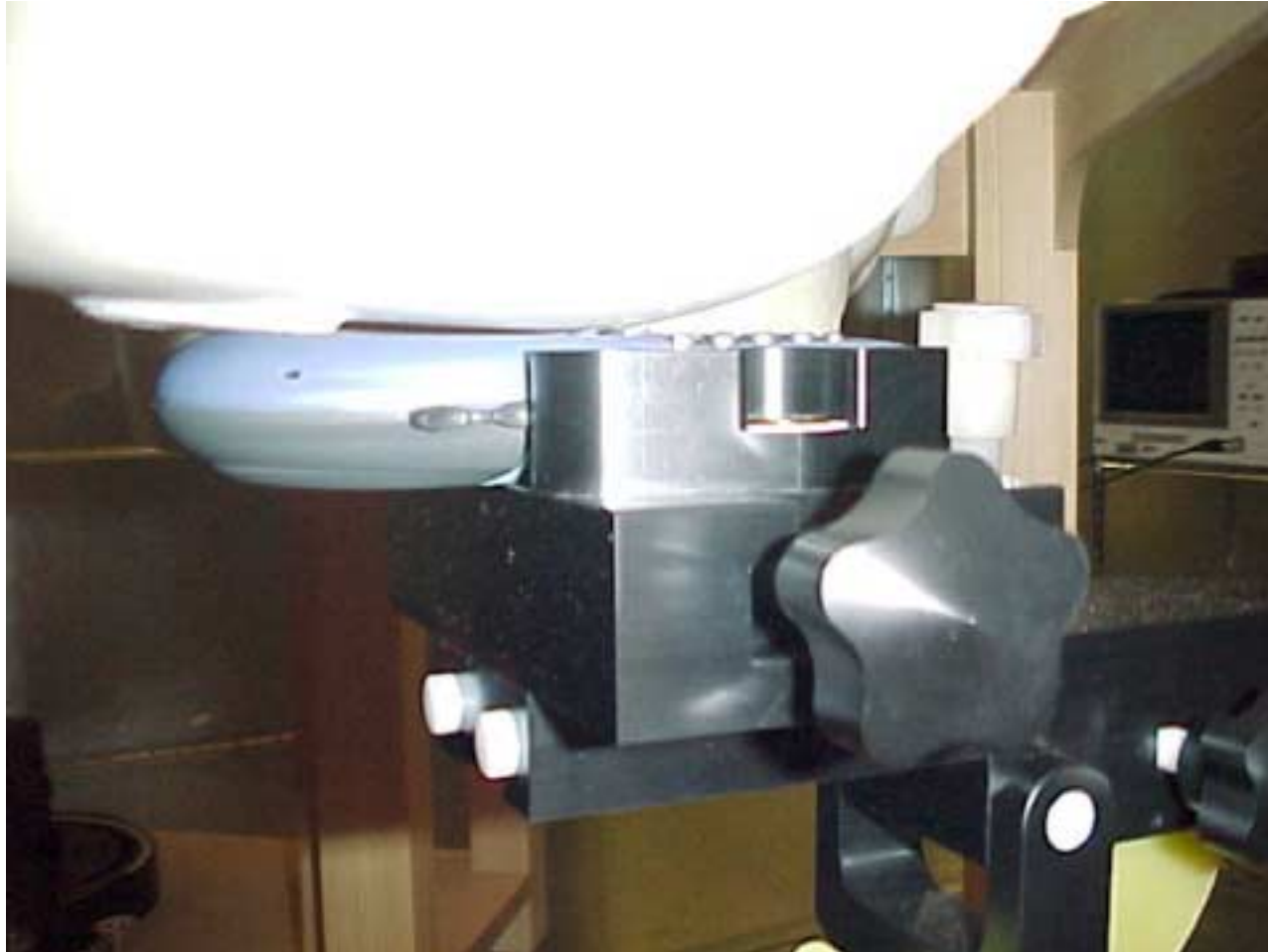
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Front, back, and side views of product number SXK-109-4705

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Appendix 4: Position of Device on Phantom



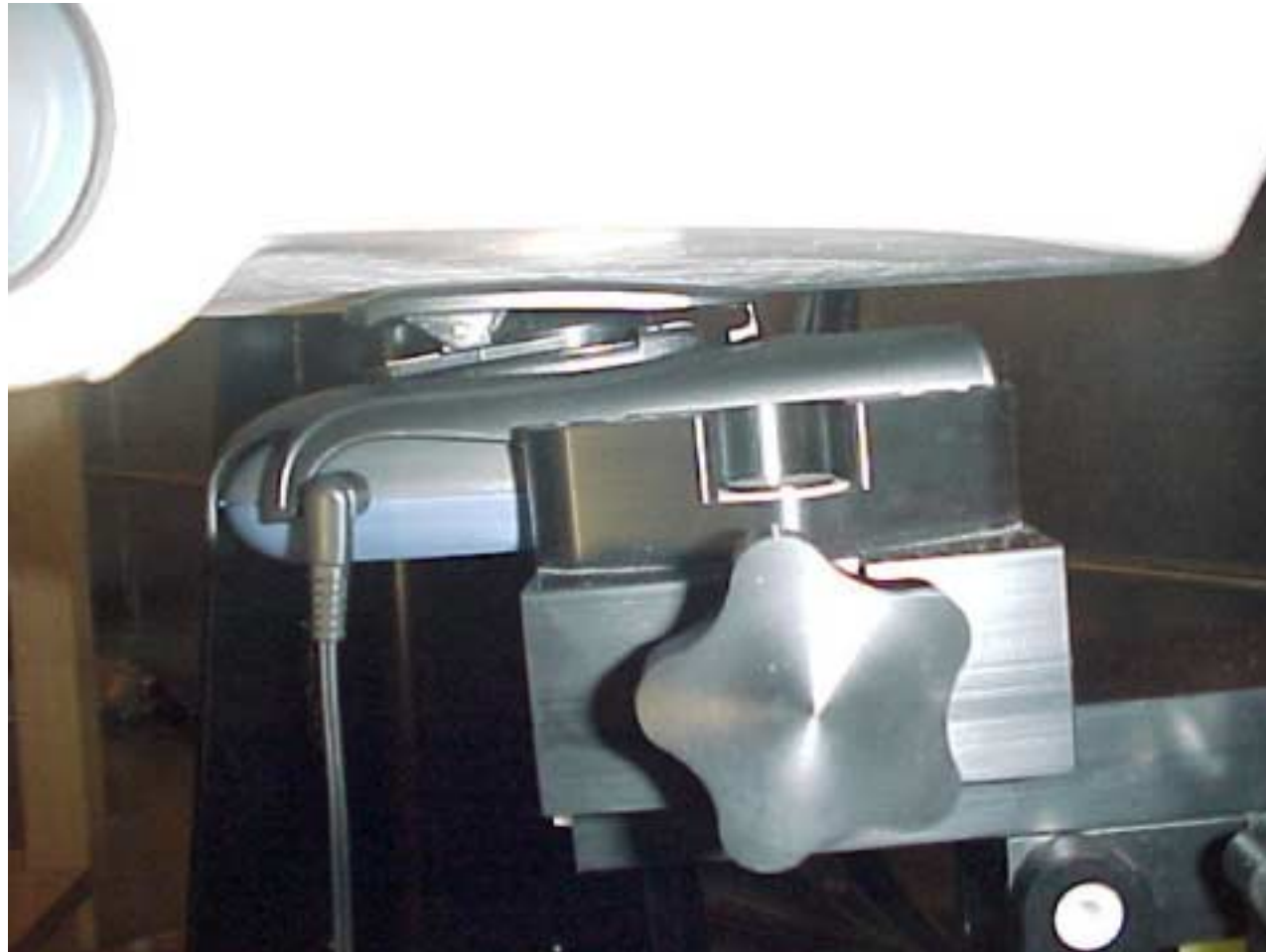
Position of device against head phantom using the “cheek” position

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Position of device against head phantom using the “tilt” position

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Position of device against flat phantom using carry accessory SXX 109 4705 with hands free accessory RLF 501 25/03

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Appendix 5: Probe calibration parameters

ET3DV6 SN:1539

DASY3 - Parameters of Probe: ET3DV6 SN:1539

Sensitivity in Free Space

Diode Compression

NormX	1.36 $\mu\text{V}/(\text{V}/\text{m})^2$	DCP X	96 mV
NormY	1.24 $\mu\text{V}/(\text{V}/\text{m})^2$	DCP Y	96 mV
NormZ	1.36 $\mu\text{V}/(\text{V}/\text{m})^2$	DCP Z	96 mV

Sensitivity in Tissue Simulating Liquid

Brain	450 MHz	$\epsilon_r = 48 \pm 5\%$	$\sigma = 0.50 \pm 10\% \text{ mho/m}$
ConvF X	6.64 extrapolated	Boundary effect:	
ConvF Y	6.64 extrapolated	Alpha	0.83
ConvF Z	6.64 extrapolated	Depth	1.52
Brain	900 MHz	$\epsilon_r = 42.5 \pm 5\%$	$\sigma = 0.86 \pm 10\% \text{ mho/m}$
ConvF X	6.27 $\pm 7\%$ (k=2)	Boundary effect:	
ConvF Y	6.27 $\pm 7\%$ (k=2)	Alpha	0.78
ConvF Z	6.27 $\pm 7\%$ (k=2)	Depth	1.73
Brain	1500 MHz	$\epsilon_r = 41 \pm 5\%$	$\sigma = 1.32 \pm 10\% \text{ mho/m}$
ConvF X	5.78 interpolated	Boundary effect:	
ConvF Y	5.78 interpolated	Alpha	0.70
ConvF Z	5.78 interpolated	Depth	2.01
Brain	1800 MHz	$\epsilon_r = 41 \pm 5\%$	$\sigma = 1.69 \pm 10\% \text{ mho/m}$
ConvF X	5.54 $\pm 7\%$ (k=2)	Boundary effect:	
ConvF Y	5.54 $\pm 7\%$ (k=2)	Alpha	0.66
ConvF Z	5.54 $\pm 7\%$ (k=2)	Depth	2.15

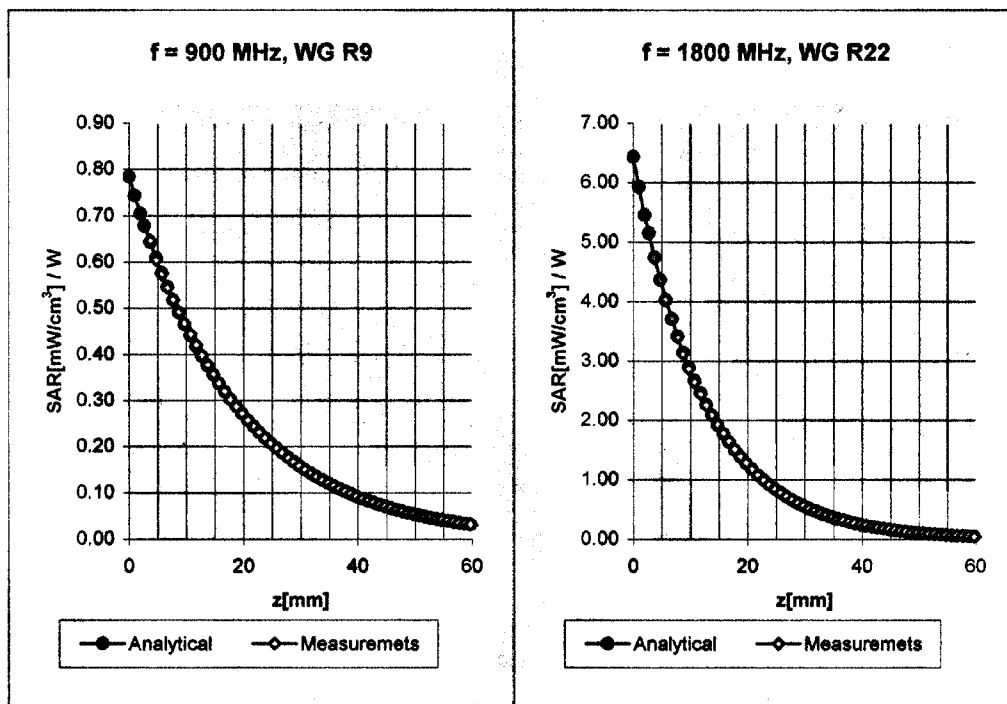
Sensor Offset

Probe Tip to Sensor Center	2.7	mm
Optical Surface Detection	1.3 $\pm$ 0.2	mm

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ET3DV6 SN:1539

Conversion Factor Assessment



Head **900 MHz** $\epsilon_r = 42 \pm 5\%$ $\sigma = 0.97 \pm 10\% \text{ mho/m}$

ConvF X **6.15** $\pm 7\%$ (k=2)

Boundary effect:

ConvF Y **6.15** $\pm 7\%$ (k=2)

Alpha **0.35**

ConvF Z **6.15** $\pm 7\%$ (k=2)

Depth **2.99**

Head **1800 MHz** $\epsilon_r = 40 \pm 5\%$ $\sigma = 1.40 \pm 10\% \text{ mho/m}$

ConvF X **5.26** $\pm 7\%$ (k=2)

Boundary effect:

ConvF Y **5.26** $\pm 7\%$ (k=2)

Alpha **0.67**

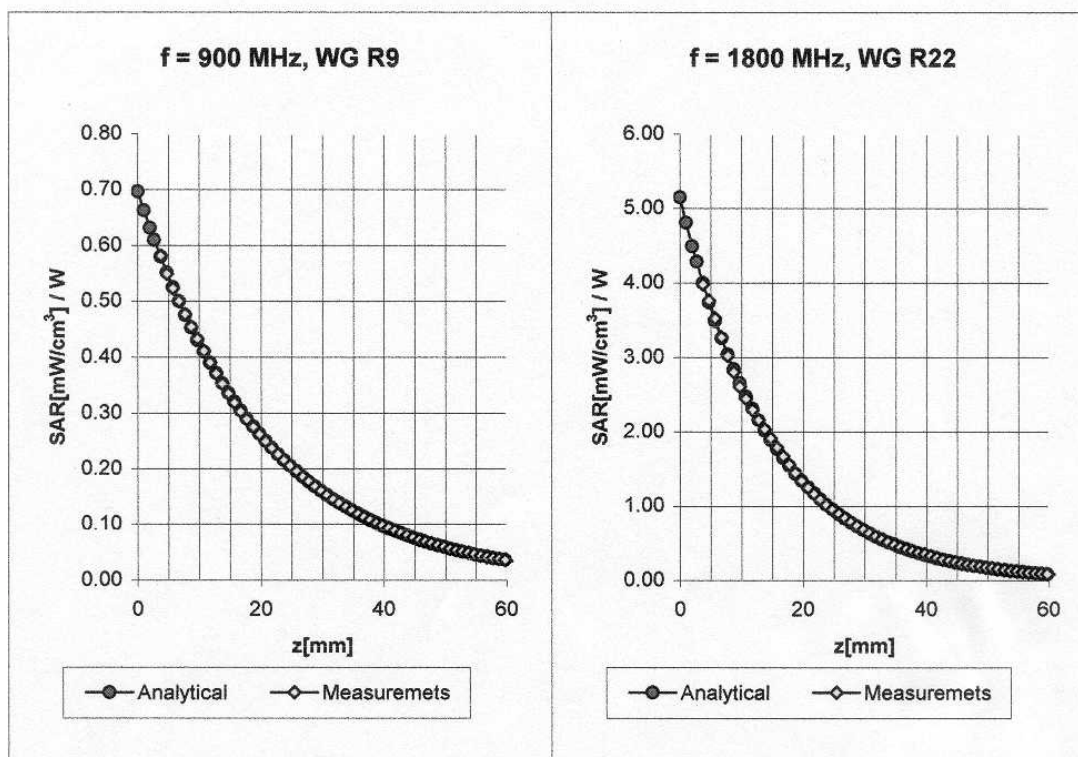
ConvF Z **5.26** $\pm 7\%$ (k=2)

Depth **2.05**

Prepared (also subject responsible if other) SEM/CV/PF/P William Stewart		No. EUS/CV/R-01:1078/REP		
Approved SEM/CV/PF/P Mark Douglas	Checked MGD	2001-11-18	A	N:\SAR chamber\T60ds.doc

ET3DV6 SN:1539

Conversion Factor Assessment



Muscle **900 MHz** $\epsilon_r = 56 \pm 5\%$ $\sigma = 0.99 \pm 10\% \text{ mho/m}$

ConvF X **5.95** $\pm 7\%$ (k=2)

Boundary effect:

ConvF Y **5.95** $\pm 7\%$ (k=2)

Alpha **0.41**

ConvF Z **5.95** $\pm 7\%$ (k=2)

Depth **2.75**

Muscle **1800 MHz** $\epsilon_r = 54 \pm 5\%$ $\sigma = 1.4 \pm 10\% \text{ mho/m}$

ConvF X **4.64** $\pm 7\%$ (k=2)

Boundary effect:

ConvF Y **4.64** $\pm 7\%$ (k=2)

Alpha **0.70**

ConvF Z **4.64** $\pm 7\%$ (k=2)

Depth **2.19**