DECLARATION OF COMPLIANCE
SAR EVALUATION

Test Lab

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Applicant Information

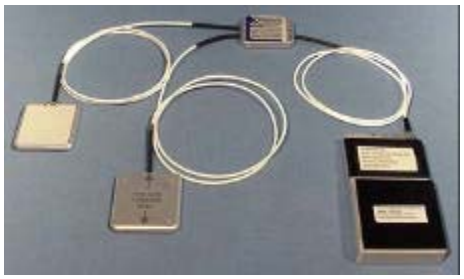
DTC COMMUNICATIONS INC.
486 Amherst Street
Nashua, NH 03063

FCC Rule Part(s):	**§2.1093**
Test Procedure(s):	**FCC OET Bulletin 65, Supplement C (01-01)**
FCC ID:	**H25VXS250**
Model(s):	**VxS-250**
Device Type:	**Wireless FM Audio/Video Transmitter Worn on Body**
Modulation:	**FM**
Tx Frequency Range:	**2450 - 2500 MHz**
Conducted Pwr. Tested:	**24.6 dBm**
Antenna Type:	**Dual Patch**
Battery Type:	**1.5V AA Lithium Battery (x4)**
Body-Worn Accessory:	**Cotton Vest**
Max. SAR Level Measured:	**2.70 W/kg**

Celltech Research Inc. declares under its sole responsibility that this device was found to be in compliance with the Specific Absorption Rate (SAR) RF exposure requirements specified in FCC §2.1093 and was tested in accordance with the measurement standards and procedures specified in FCC OET Bulletin 65, Supplement C, Edition 01-01 (Occupational Environment / Controlled Exposure).

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.

Russell Pipe
Senior Compliance Technologist
Celltech Research Inc.



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1.0 INTRODUCTION

This measurement report demonstrates that the DTC Communications Inc. Model: VxS-250 Wireless FM Audio/Video Transmitter (body-worn) FCC ID: H25VXS250 complies with the RF exposure requirements and procedures specified in FCC 47 CFR §2.1093 (see reference [1]). The test procedures described in FCC OET Bulletin 65, Supplement C, Edition 01-01 (see Reference [2]) were employed. A description of the product, 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 Equipment Under Test (EUT)

FCC Rule Part(s)	§2.1093
FCC Test Procedure	OET Bulletin 65, Supplement C (01-01)
Device Type	Wireless FM Audio/Video Transmitter Worn on Body
FCC ID	H25VXS250
Model(s)	VxS-250
Serial No.	Pre-production
Modulation	FM
Tx Frequency Range	2450 - 2500 MHz
RF Conducted Power Tested	24.6 dBm
Antenna Type(s)	Dual Patch
Battery Type(s)	1.5V AA Lithium Battery (x4)
Body-Worn Accessory	Cotton Vest

3.0 SAR MEASUREMENT SYSTEM

Celltech Research SAR measurement facility utilizes the Dosimetric Assessment System (DASY™) manufactured by Schmid & Partner Engineering AG (SPEAG™) of Zurich, Switzerland. The DASY system is comprised of the robot controller, computer, near-field probe, probe alignment sensor, specific anthropomorphic mannequin (SAM) phantom, and various planar phantoms for brain 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 PC plug-in card. The DAE3 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 PC-card 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. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer.

DASY3 SAR Measurement System with SAM phantom

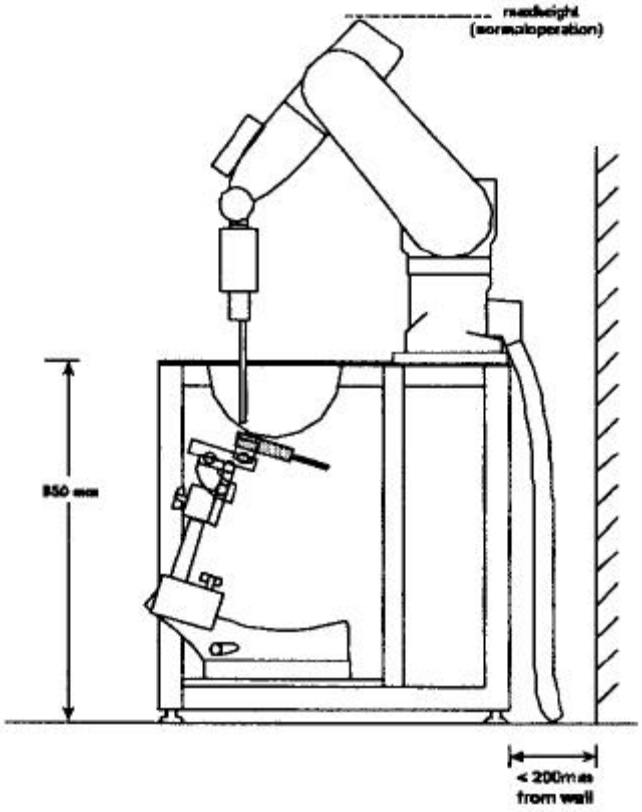


Figure 1. DASY3 Compact Version - Side View

4.0 MEASUREMENT SUMMARY

The measurement results were obtained with the EUT tested in the conditions described in this report. Detailed measurement data and plots showing the maximum SAR location of the EUT are reported in Appendix A.

BODY-WORN SAR MEASUREMENT RESULTS									
Freq. (MHz)	Channel	Mode	Conducted Power (dBm)		Phantom Section	Antenna Position	Antenna Side	Separation Distance (cm)	Measured SAR 1g (w/kg)
			Before	After					
2475	Mid	CW	24.6	24.5	Planar	Inside Vest Front	Back	0.0	0.136
2475	Mid	CW	24.6	24.5	Planar	Inside Vest Back	Back	0.0	0.167
2475	Mid	CW	24.6	24.5	Planar	Outside Vest Front	Front	0.0	2.70
2450	Low	CW	24.6	24.5	Planar	Outside Vest Front	Front	0.0	1.35
2500	High	CW	24.6	24.5	Planar	Outside Vest Front	Front	0.0	2.26
2475	Mid	CW	24.6	24.5	Planar	Outside Vest Back	Front	0.0	0.960
2450	Low	CW	24.6	24.5	Planar	Outside Vest Back	Front	0.0	0.911
2500	High	CW	24.6	24.5	Planar	Outside Vest Back	Front	0.0	0.758

ANSI / IEEE C95.1 1992 – SAFETY LIMIT BODY: 8.0 W/kg (averaged over 1 gram) Spatial Peak - Controlled Exposure / Occupational				
Test Date(s)	09/05/02		**Relative Humidity**	32 %
Measured Mixture Type	2450MHz Muscle		**Atmospheric Pressure**	101.4 kPa
Dielectric Constant ε_r	**Target**	**Measured**	**Ambient Temperature**	23.9 °C
	52.7 (±5%)	50.1		
Conductivity σ (mho/m)	**Target**	**Measured**	**Fluid Temperature**	23.7 °C
	1.95 (±5%)	2.00		
ρ (Kg/m^3)	1000		**Fluid Depth**	≥ 15 cm

Back of Antenna (facing body) = Non-radiating side
Front of Antenna (facing away from body) = Radiating side

5.0 DETAILS OF SAR EVALUATION

The DTC COMMUNICATIONS INC. Model: VxS-250 Wireless FM Audio/Video Transmitter Worn on Body FCC ID: H25VXS250 was found to be compliant for localized Specific Absorption Rate (Controlled Exposure) based on the test provisions and conditions described below. The SAR test setup photographs are shown in Appendix G.

1. The EUT was tested for body-worn SAR with the front patch antenna placed in the front pouch of the cotton vest. The back side (non-radiating side) of the front patch antenna was facing parallel to the planar phantom and the inside front section of the cotton vest was touching the planar phantom.
2. The EUT was tested for body-worn SAR with the rear patch antenna placed in the rear pouch of the cotton vest. The back side (non-radiating side) of the rear patch antenna was facing parallel to the planar phantom and the inside rear section of the cotton vest was touching the planar phantom.
3. The EUT was tested for body-worn SAR with the front patch antenna placed in the front pouch of the cotton vest. The front side (radiating side) of the front patch antenna was facing parallel to the planar phantom and the outside front section of the cotton vest was touching the planar phantom.
4. The EUT was tested for body-worn SAR with the rear patch antenna placed in the rear pouch of the cotton vest. The front side (radiating side) of the rear patch antenna was facing parallel to the planar phantom and the outside rear section of the cotton vest was touching the planar phantom.
5. The EUT was evaluated for SAR at maximum power and the unit was operated for an appropriate period prior to the evaluation in order to minimize drift. The conducted power levels were measured before and after each test according to the procedures described in FCC §2.1046. If the conducted power level varied more than 5% from the initial power level, then the EUT was retested. Any unusual anomalies over the course of the test also warranted a re-evaluation.
6. The device was placed in unmodulated continuous transmit mode (CW) for the duration of the tests via the power switch on the transmitter of the EUT.
7. The location of the maximum spatial SAR distribution (Hot Spot) was determined relative to the device and its antenna.
8. The EUT was tested with fully-charged Lithium batteries.

6.0 EVALUATION PROCEDURES

a. (i) The evaluation was 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 in accordance with FCC OET Bulletin 65, Supplement C (Edition 01-01) 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 DASY3 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 20mm x 20mm.

c. A 5x5x7 matrix was performed around the greatest spatial SAR distribution found during the area scan of the applicable exposed region. SAR values were then calculated using a 3-D spline interpolation algorithm and averaged over spatial volumes of 1 and 10 grams.

7.0 SYSTEM VALIDATION

Prior to the assessment, the system was verified in the planar section of the SAM phantom with a 2450MHz dipole. The fluids were verified using an 85070C Dielectric Probe Kit and an 8753E Network Analyzer. A forward power of 250 mW was applied to the dipole and system was verified to a tolerance of ±10%. See Appendix B for system validation test plot, Appendix C for detailed dipole calibration procedures, and Appendix E for printout of measured fluid dielectric parameters.

SYSTEM VALIDATION											
Test Date	Equiv. Tissue	Target SAR 1g (w/kg)	Measured SAR 1g (w/kg)	Dielectric Constant ε_r		Conductivity σ (mho/m)		ρ (Kg/m^3)	Ambient Temp.	Fluid Temp.	Fluid Depth
				Target	Measured	Target	Measured				
09/05/02	2450MHz (Brain)	14.2	14.6	39.2 ±5%	39.0	1.80 ±5%	1.86	1000	23.9 °C	23.5 °C	≥ 15 cm

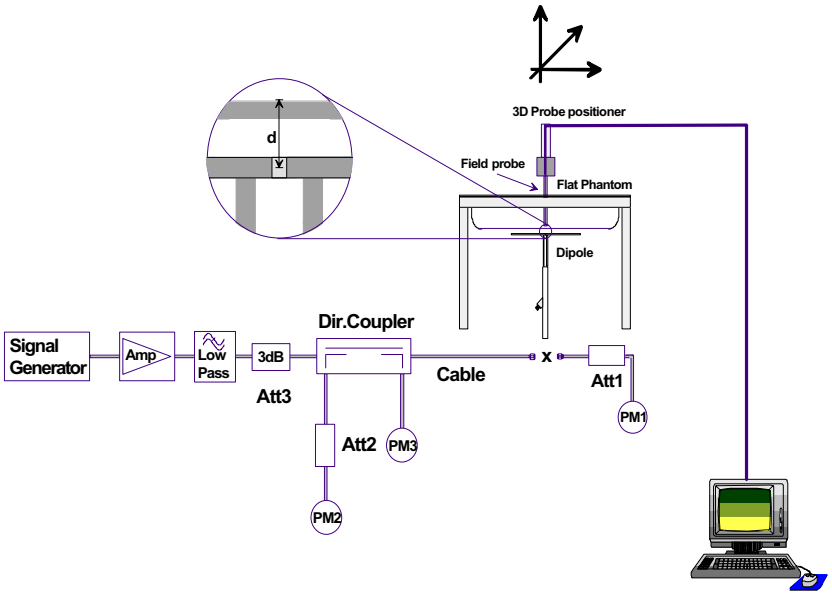


Figure 3. System Validation Setup Diagram

2450MHz Dipole Validation Setup

8.0 EQUIVALENT TISSUES

The 2450MHz brain and body mixtures consist of Glycol-monobutyl, water, and salt (body mixture only). The fluid was prepared according to standardized procedures and measured for dielectric parameters (permitivity and conductivity).

TISSUE MIXTURES		
INGREDIENT	**2450MHz Brain Mixture (System Validation)**	**2450MHz Body Mixture (EUT Evaluation)**
Water	55.20 %	69.95 %
Glycol Monobutyl	44.80 %	30.00 %
Salt	-	0.05 %

9.0 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

Notes:

1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
2. 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.

10.0 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:	Pentium III
Clock Speed:	450 MHz
Operating System:	Windows NT
Data Card:	DASY3 PC-Board

Data Converter

Features:	Signal Amplifier, multiplexer, A/D converter, and control logic
Software:	DASY3 software
Connecting Lines:	Optical downlink for data and status info. Optical uplink for commands and clock

PC Interface Card

Function:	24 bit (64 MHz) DSP for real time processing Link to DAE3 16-bit A/D converter for surface detection system serial link to robot direct emergency stop output for robot

E-Field Probe

Model:	ET3DV6
Serial No.:	1387
Construction:	Triangular core fiber optic detection system
Frequency:	10 MHz to 6 GHz
Linearity:	±0.2 dB (30 MHz to 3 GHz)

Phantom

Type:	SAM V4.0C
Shell Material:	Fiberglass
Thickness:	2.0 ±0.1 mm
Volume:	Approx. 20 liters

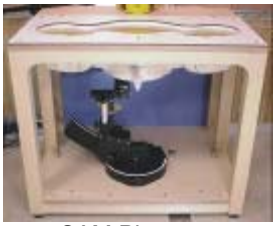
11.0 PROBE SPECIFICATION (ET3DV6)

Construction:	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g. glycol)
Calibration:	In air from 10 MHz to 2.5 GHz In brain simulating tissue at frequencies of 900 MHz and 1.8 GHz (accuracy ± 8%)
Frequency:	10 MHz to >6 GHz; Linearity: ±0.2 dB (30 MHz to 3 GHz)
Directivity:	±0.2 dB in brain tissue (rotation around probe axis) ±0.4 dB in brain tissue (rotation normal to probe axis)
Dynam. Rnge:	5 µW/g to >100 mW/g; Linearity: ±0.2 dB
Srfce. Detect.	±0.2 mm repeatability in air and clear liquids over diffuse reflecting surfaces
Dimensions:	Overall length: 330 mm Tip length: 16 mm Body diameter: 12 mm Tip diameter: 6.8 mm Distance from probe tip to dipole centers: 2.7 mm
Application:	General dosimetry up to 3 GHz Compliance tests of mobile phone


ET3DV6 E-Field Probe

12.0 SAM PHANTOM V4.0C

The SAM phantom V4.0C is a fiberglass shell phantom with a 2.0 mm shell thickness for left and right head and flat planar area integrated in a wooden table. The shape of the fiberglass shell corresponds to the phantom defined by SCC34-SC2. The device holder positions are adjusted to the standard measurement positions in the three sections.


SAM Phantom

13.0 DEVICE HOLDER

The DASY3 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.


Device Holder

14.0 TEST EQUIPMENT LIST

SAR MEASUREMENT SYSTEM		
EQUIPMENT	**SERIAL NO.**	**CALIBRATION DATE**
DASY3 System -Robot -ET3DV6 E-Field Probe -300MHz Validation Dipole -450MHz Validation Dipole -900MHz Validation Dipole -1800MHz Validation Dipole -2450MHz Validation Dipole -SAM Phantom V4.0C -Small Planar Phantom -Large Planar Phantom	 599396-01 1387 135 136 054 247 150 N/A N/A N/A	 N/A Feb 2002 Oct 2001 Oct 2001 June 2001 June 2001 Oct 2001 N/A N/A N/A
85070C Dielectric Probe Kit	N/A	N/A
Gigatronics 8652A Power Meter -Power Sensor 80701A -Power Sensor 80701A	1835272 1833535 1833542	Feb 2002 Feb 2002 Mar 2002
E4408B Spectrum Analyzer	US39240170	Nov 2001
8594E Spectrum Analyzer	3543A02721	Feb 2002
8753E Network Analyzer	US38433013	Feb 2002
8648D Signal Generator	3847A00611	Feb 2002
5S1G4 Amplifier Research Power Amplifier	26235	N/A

15.0 MEASUREMENT UNCERTAINTIES

Error Description	Uncertainty Value ±%	Probability Distribution	Divisor	c_i 1g	Standard Uncertainty ±% (1g)	v_i or v_{eff}
Measurement System						
Probe calibration	± 4.8	Normal	1	1	± 4.8	∞
Axial isotropy of the probe	± 4.7	Rectangular	√3	$(1-c_p)$	± 1.9	∞
Spherical isotropy of the probe	± 9.6	Rectangular	√3	(c_p)	± 3.9	∞
Spatial resolution	± 0.0	Rectangular	√3	1	± 0.0	∞
Boundary effects	± 5.5	Rectangular	√3	1	± 3.2	∞
Probe linearity	± 4.7	Rectangular	√3	1	± 2.7	∞
Detection limit	± 1.0	Rectangular	√3	1	± 0.6	∞
Readout electronics	± 1.0	Normal	1	1	± 1.0	∞
Response time	± 0.8	Rectangular	√3	1	± 0.5	∞
Integration time	± 1.4	Rectangular	√3	1	± 0.8	∞
RF ambient conditions	± 3.0	Rectangular	√3	1	± 1.7	∞
Mech. constraints of robot	± 0.4	Rectangular	√3	1	± 0.2	∞
Probe positioning	± 2.9	Rectangular	√3	1	± 1.7	∞
Extrapolation & integration	± 3.9	Rectangular	√3	1	± 2.3	∞
Test Sample Related						
Device positioning	± 6.0	Normal	√3	1	± 6.7	12
Device holder uncertainty	± 5.0	Normal	√3	1	± 5.9	8
Power drift	± 5.0	Rectangular	√3		± 2.9	∞
Phantom and Setup						
Phantom uncertainty	± 4.0	Rectangular	√3	1	± 2.3	∞
Liquid conductivity (target)	± 5.0	Rectangular	√3	0.6	± 1.7	∞
Liquid conductivity (measured)	± 10.0	Rectangular	√3	0.6	± 3.5	∞
Liquid permittivity (target)	± 5.0	Rectangular	√3	0.6	± 1.7	∞
Liquid permittivity (measured)	± 5.0	Rectangular	√3	0.6	± 1.7	∞
Combined Standard Uncertainty					**± 13.7**	
Expanded Uncertainty (k=2)					**± 27.5**	

Measurement Uncertainty Table in accordance with IEEE Std 1528 (Draft - see reference [3])

16.0 REFERENCES

[1] Federal Communications Commission, “Radiofrequency radiation exposure evaluation: portable devices”, Rule Part 47 CFR §2.1093: 1999.

[2] 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.

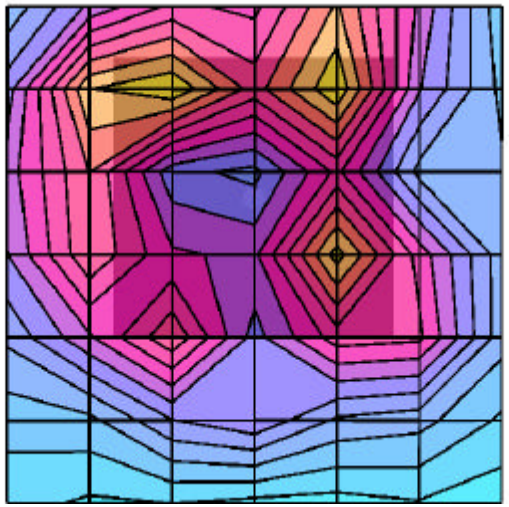
[3] IEEE Standards Coordinating Committee 34, Std 1528-200X, “DRAFT Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques”.

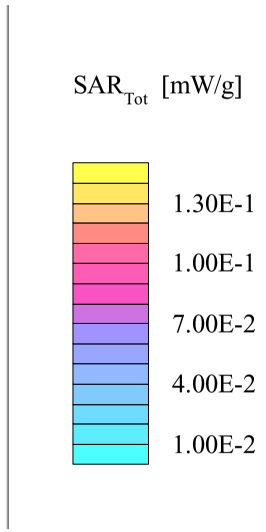
APPENDIX A - SAR MEASUREMENT DATA

DTC Communications Inc. FCC ID: H25VXS250

SAM Phantom; Flat Section; Position: (90°,0°)
Probe: ET3DV6 - SN1387; ConvF(4.30,4.30,4.30); Crest factor: 1.0
2450 MHz Muscle: $\sigma = 2.00$ mho/m $\varepsilon_r = 50.1$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7; Powerdrift: -0.11 dB
SAR (1g): 0.136 mW/g, SAR (10g): 0.0719 mW/g

Body-Worn SAR - Back Side of Front Antenna (Non-Radiating Side)
Inside Front of Vest Touching Planar Phantom
VxS-250 Wireless FM Audio/Video Transmitter
Dual Patch Antenna (Front-of-Vest Antenna)
1.5V AA Lithium Batteries (x4)
Continuous Wave Mode
Mid Channel [2475 MHz]
Conducted Power: 24.6 dBm
Ambient Temp. 23.9°C; Fluid Temp. 23.7°C
Date Tested: September 5, 2002





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SAM Phantom; Flat Section; Position: (90°,0°)
Probe: ET3DV6 - SN1387; ConvF(4.30,4.30,4.30); Crest factor: 1.0
2450 MHz Muscle: $\sigma = 2.00$ mho/m $\varepsilon_r = 50.1$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7; Powerdrift: -0.12 dB
SAR (1g): 0.167 mW/g, SAR (10g): 0.0887 mW/g

Body-Worn SAR - Back Side of Rear Antenna (Non-Radiating Side)
Inside Back of Vest Touching Planar Phantom
VxS-250 Wireless FM Audio/Video Transmitter
Dual Patch Antenna (Back-of-Vest Antenna)
1.5V AA Lithium Batteries (x4)
Continuous Wave Mode
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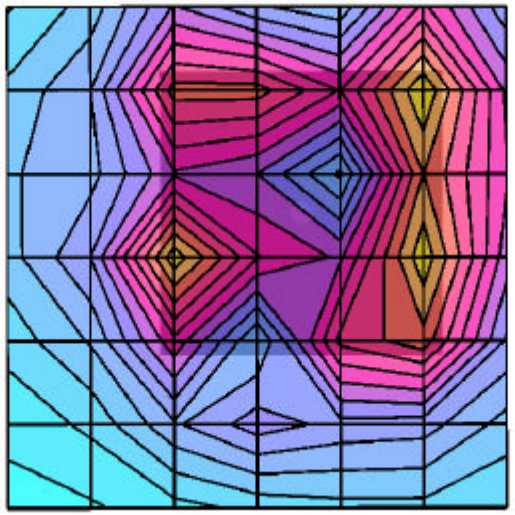

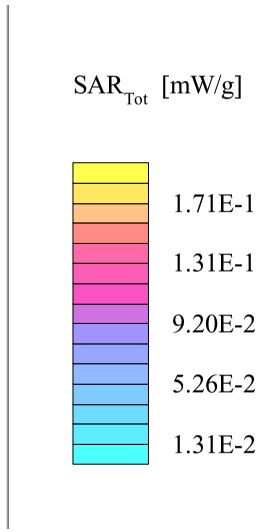

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2450 MHz Muscle: $\sigma = 2.00$ mho/m $\varepsilon_r = 50.1$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7; Powerdrift: -0.14 dB
SAR (1g): 2.70 mW/g, SAR (10g): 1.40 mW/g

Body-Worn SAR - Front Side of Front Antenna (Radiating Side)
Outside Front of Vest Touching Planar Phantom
VxS-250 Wireless FM Audio/Video Transmitter
Dual Patch Antenna (Front-of-Vest Antenna)
1.5V AA Lithium Batteries (x4)
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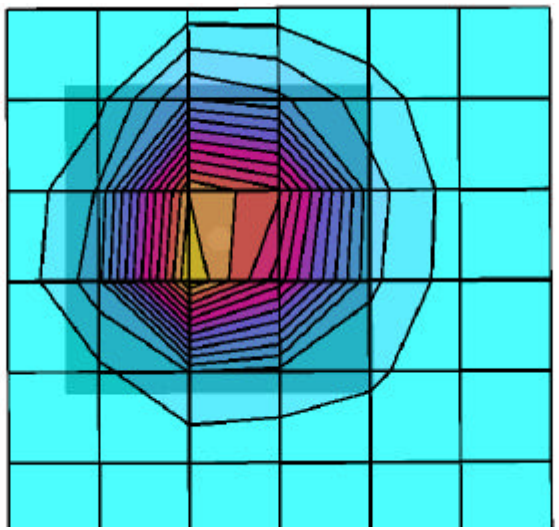

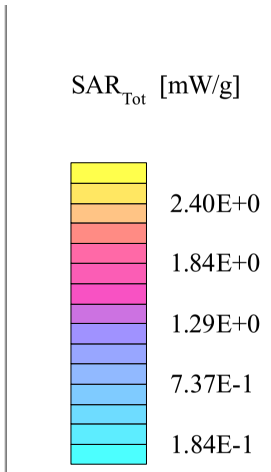

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2450 MHz Muscle: $\sigma = 2.00$ mho/m $\varepsilon_r = 50.1$ $\rho = 1.00$ g/cm^3

Z-Axis Extrapolation at Peak SAR Location

Body-Worn SAR - Front Side of Front Antenna (Radiating Side)
Outside Front of Vest Touching Planar Phantom
VxS-250 Wireless FM Audio/Video Transmitter
Dual Patch Antenna (Front-of-Vest Antenna)
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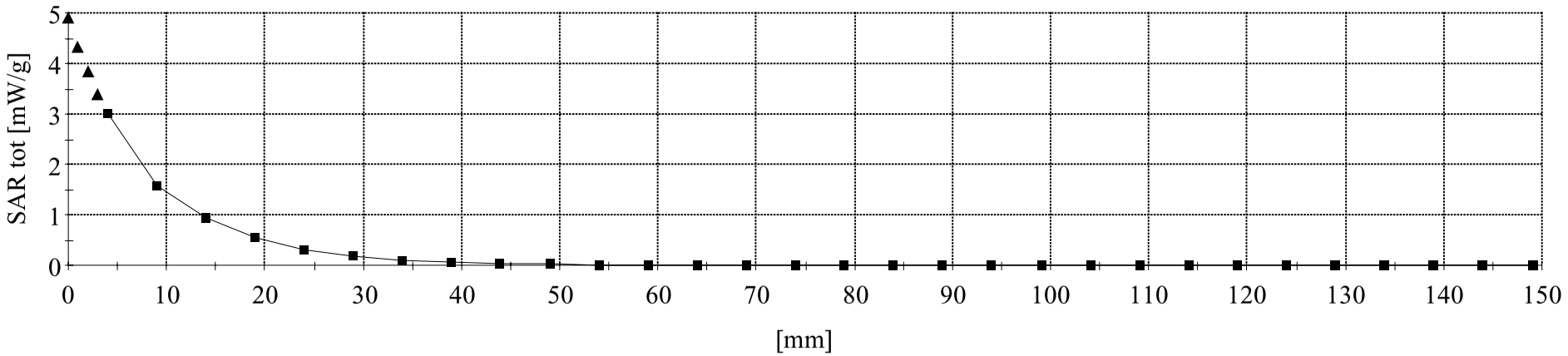

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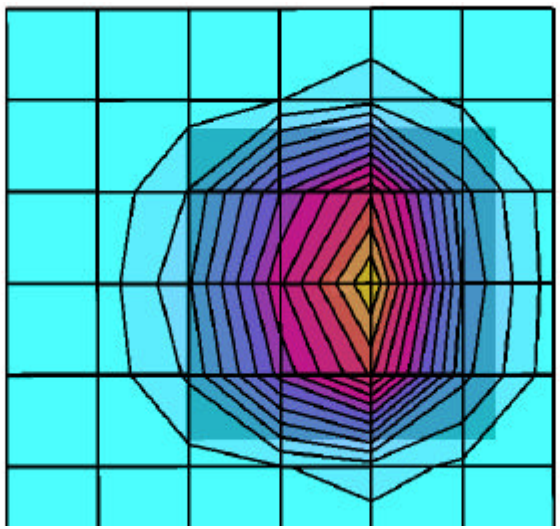
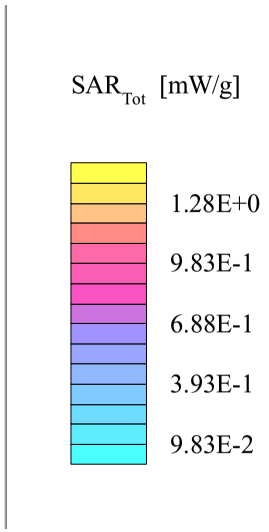
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7; Powerdrift: -0.10 dB
SAR (1g): 1.35 mW/g, SAR (10g): 0.733 mW/g

Body-Worn SAR - Front Side of Front Antenna (Radiating Side)
Outside Front of Vest Touching Planar Phantom
VxS-250 Wireless FM Audio/Video Transmitter
Dual Patch Antenna (Front-of-Vest Antenna)
1.5V AA Lithium Batteries (x4)
Continuous Wave Mode
Low Channel [2450 MHz]
Conducted Power: 24.6 dBm
Ambient Temp. 23.9°C; Fluid Temp. 23.7°C
Date Tested: September 5, 2002

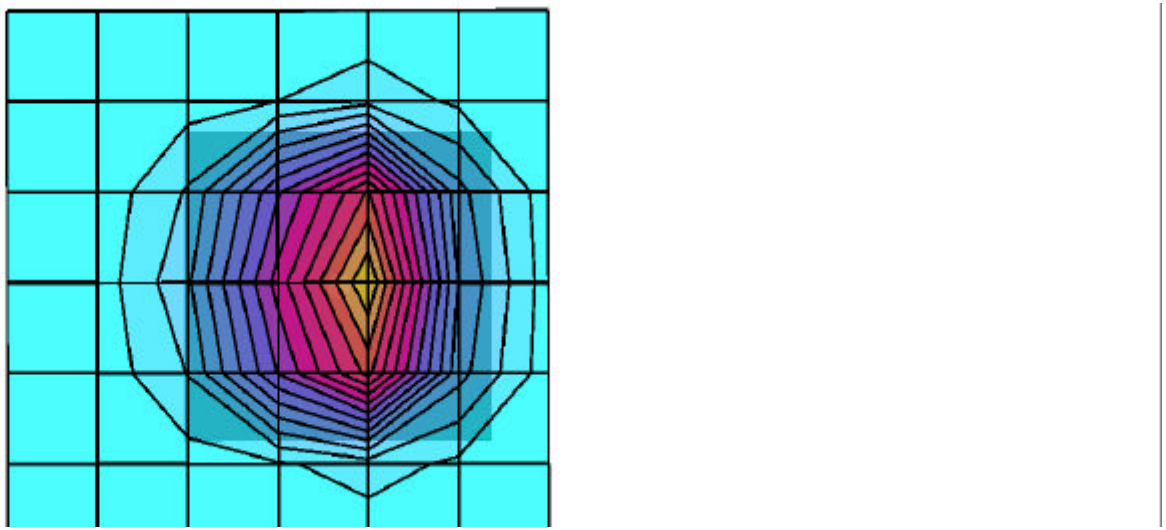




DTC Communications Inc. FCC ID: H25VXS250

SAM Phantom; Flat Section; Position: (90°,0°)
Probe: ET3DV6 - SN1387; ConvF(4.30,4.30,4.30); Crest factor: 1.0
2450 MHz Muscle: $\sigma = 2.00$ mho/m $\varepsilon_r = 50.1$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7; Powerdrift: -0.04 dB
SAR (1g): 2.26 mW/g, SAR (10g): 1.22 mW/g

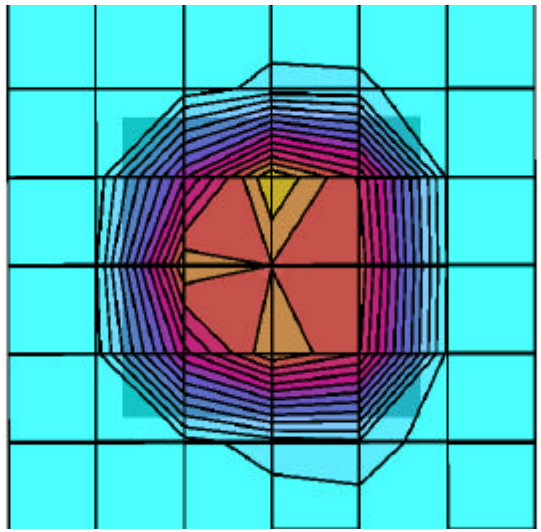
Body-Worn SAR - Front Side of Front Antenna (Radiating Side)
Outside Front of Vest Touching Planar Phantom
VxS-250 Wireless FM Audio/Video Transmitter
Dual Patch Antenna (Front-of-Vest Antenna)
1.5V AA Lithium Batteries (x4)
Continuous Wave Mode
High Channel [2500 MHz]
Conducted Power: 24.6 dBm
Ambient Temp. 23.9°C; Fluid Temp. 23.7°C
Date Tested: September 5, 2002

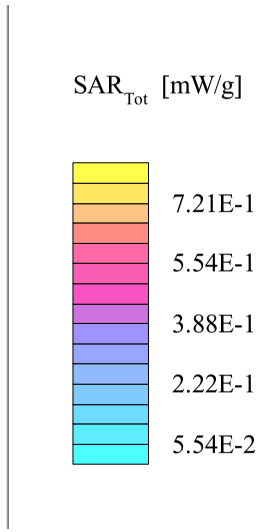


DTC Communications Inc. FCC ID: H25VXS250

SAM Phantom; Flat Section; Position: (90°,0°)
Probe: ET3DV6 - SN1387; ConvF(4.30,4.30,4.30); Crest factor: 1.0
2450 MHz Muscle: $\sigma = 2.00$ mho/m $\varepsilon_r = 50.1$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7; Powerdrift: -0.11 dB
SAR (1g): 0.960 mW/g, SAR (10g): 0.460 mW/g

Body-Worn SAR - Front Side of Rear Antenna (Radiating Side)
Outside Back of Vest Touching Planar Phantom
VxS-250 Wireless FM Audio/Video Transmitter
Dual Patch Antenna (Back-of-Vest Antenna)
1.5V AA Lithium Batteries (x4)
Continuous Wave Mode
Mid Channel [2475 MHz]
Conducted Power: 24.6 dBm
Ambient Temp. 23.9°C; Fluid Temp. 23.7°C
Date Tested: September 5, 2002

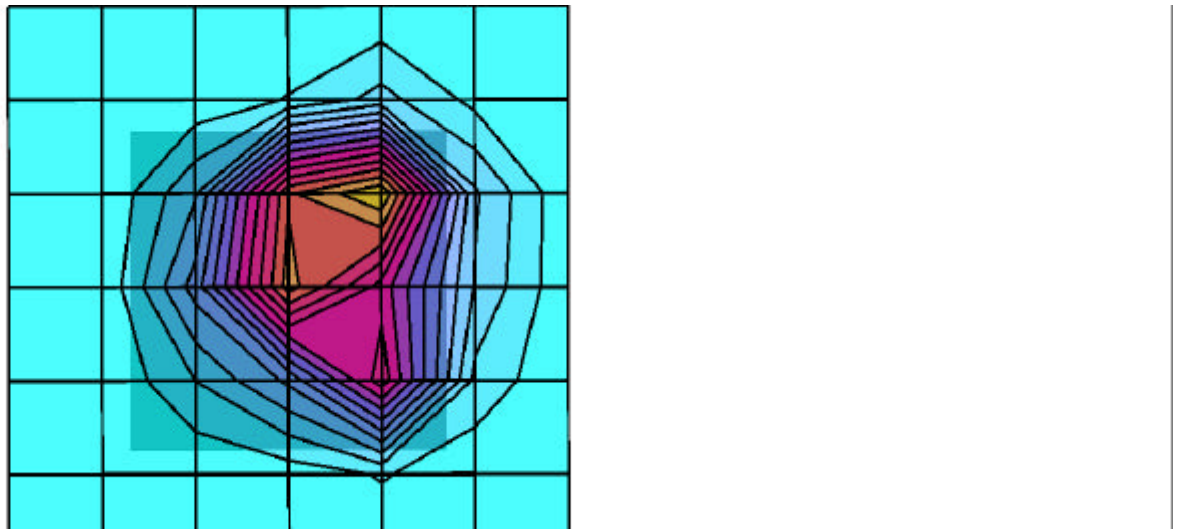




DTC Communications Inc. FCC ID: H25VXS250

SAM Phantom; Flat Section; Position: (90°,0°)
Probe: ET3DV6 - SN1387; ConvF(4.30,4.30,4.30); Crest factor: 1.0
2450 MHz Muscle: $\sigma = 2.00$ mho/m $\varepsilon_r = 50.1$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7; Powerdrift: -0.07 dB
SAR (1g): 0.911 mW/g, SAR (10g): 0.482 mW/g

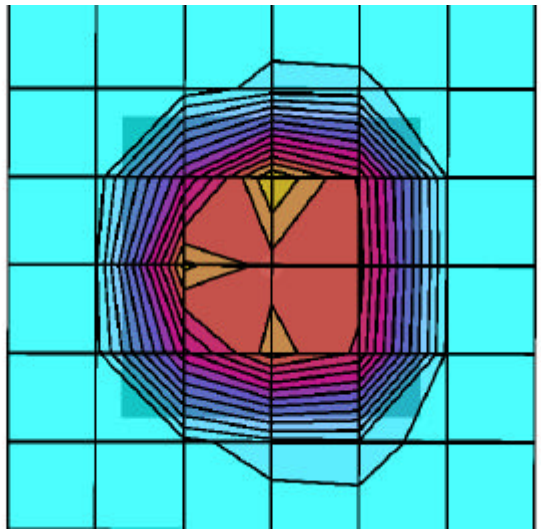
Body-Worn SAR - Front Side of Rear Antenna (Radiating Side)
Outside Back of Vest Touching Planar Phantom
VxS-250 Wireless FM Audio/Video Transmitter
Dual Patch Antenna (Back-of-Vest Antenna)
1.5V AA Lithium Batteries (x4)
Continuous Wave Mode
Low Channel [2450 MHz]
Conducted Power: 24.6 dBm
Ambient Temp. 23.9°C; Fluid Temp. 23.7°C
Date Tested: September 5, 2002

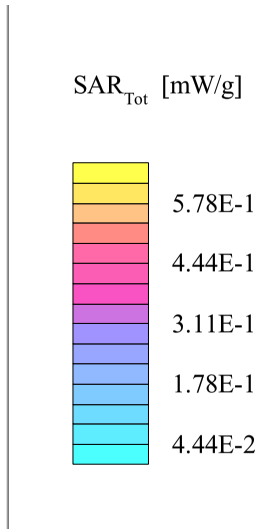


DTC Communications Inc. FCC ID: H25VXS250

SAM Phantom; Flat Section; Position: (90°,0°)
Probe: ET3DV6 - SN1387; ConvF(4.30,4.30,4.30); Crest factor: 1.0
2450 MHz Muscle: $\sigma = 2.00$ mho/m $\varepsilon_r = 50.1$ $\rho = 1.00$ g/cm^3
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7; Powerdrift: -0.08 dB
SAR (1g): 0.758 mW/g, SAR (10g): 0.362 mW/g

Body-Worn SAR - Front Side of Rear Antenna (Radiating Side)
Outside Back of Vest Touching Planar Phantom
VxS-250 Wireless FM Audio/Video Transmitter
Dual Patch Antenna (Back-of-Vest Antenna)
1.5V AA Lithium Batteries (x4)
Continuous Wave Mode
High Channel [2500 MHz]
Conducted Power: 24.6 dBm
Ambient Temp. 23.9°C; Fluid Temp. 23.7°C
Date Tested: September 5, 2002





APPENDIX B - SYSTEM VALIDATION

Dipole 2450MHz

SAM Phantom; Flat Section

Probe: ET3DV6 - SN1387; ConvF(4.70,4.70,4.70); Crest factor: 1.0; 2450 MHz Brain: σ = 1.86 mho/m ε_r = 39.0 ρ = 1.00 g/cm^3

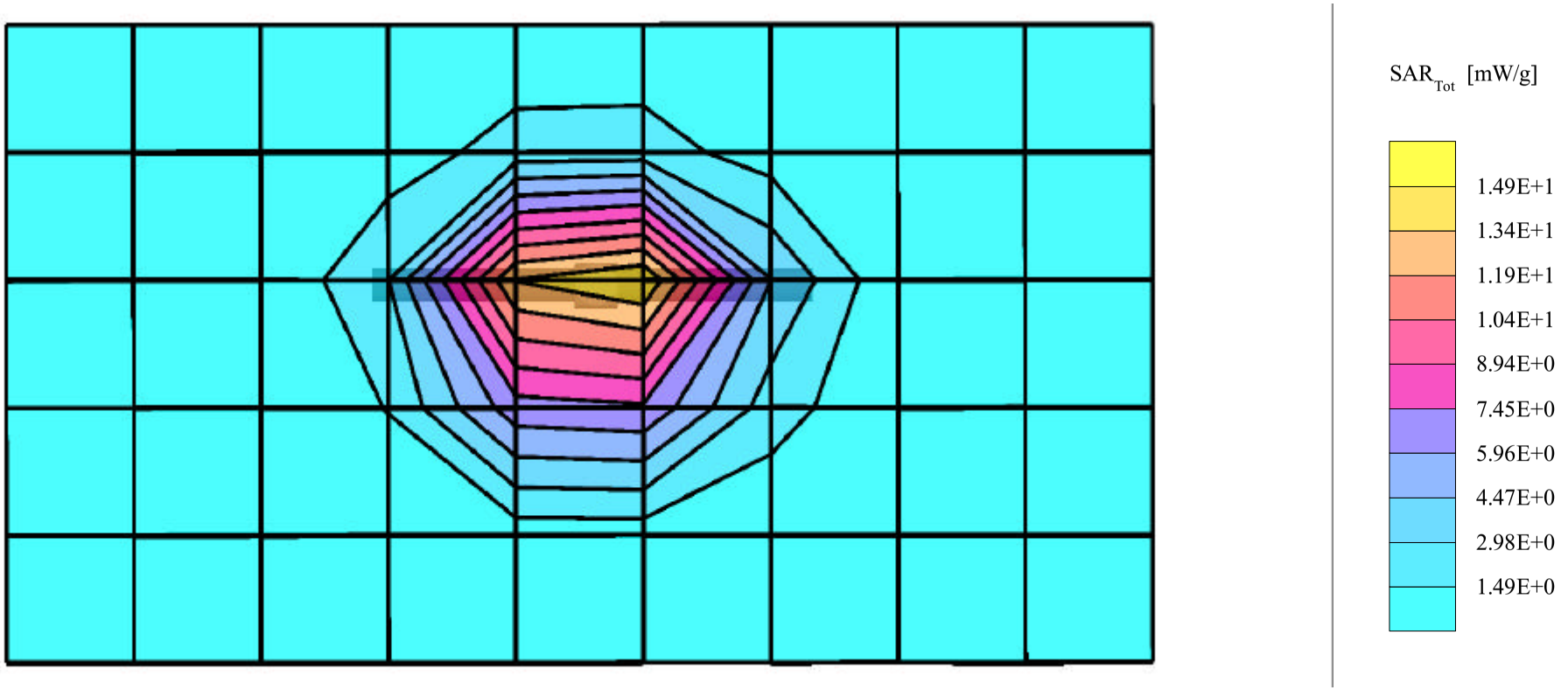
Cube 5x5x7: Peak: 31.4 mW/g, SAR (1g): 14.6 mW/g, SAR (10g): 6.58 mW/g, (Worst-case extrapolation)

Penetration depth: 6.1 (5.6, 6.5) [mm]; Ambient Temp. 23.9°C; Fluid Temp. 23.5°C

Powerdrift: -0.03 dB

Conducted Power: 250mW

Validation Date: September 5, 2002



APPENDIX C - DIPOLE CALIBRATION

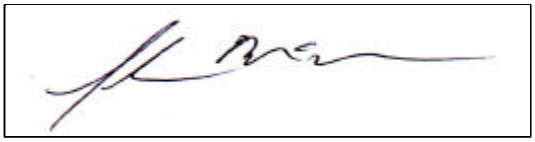
Celltech
Testing and Engineering Services Lab

2450MHz SYSTEM VALIDATION DIPOLE

Type:	**2450MHz Validation Dipole**
Serial Number:	**150**
Place of Calibration:	**Celltech Research Inc.**
Date of Calibration:	**October 24, 2001**

Celltech Research Inc. hereby certifies that this device has been calibrated on the date indicated above.

Calibrated by: 

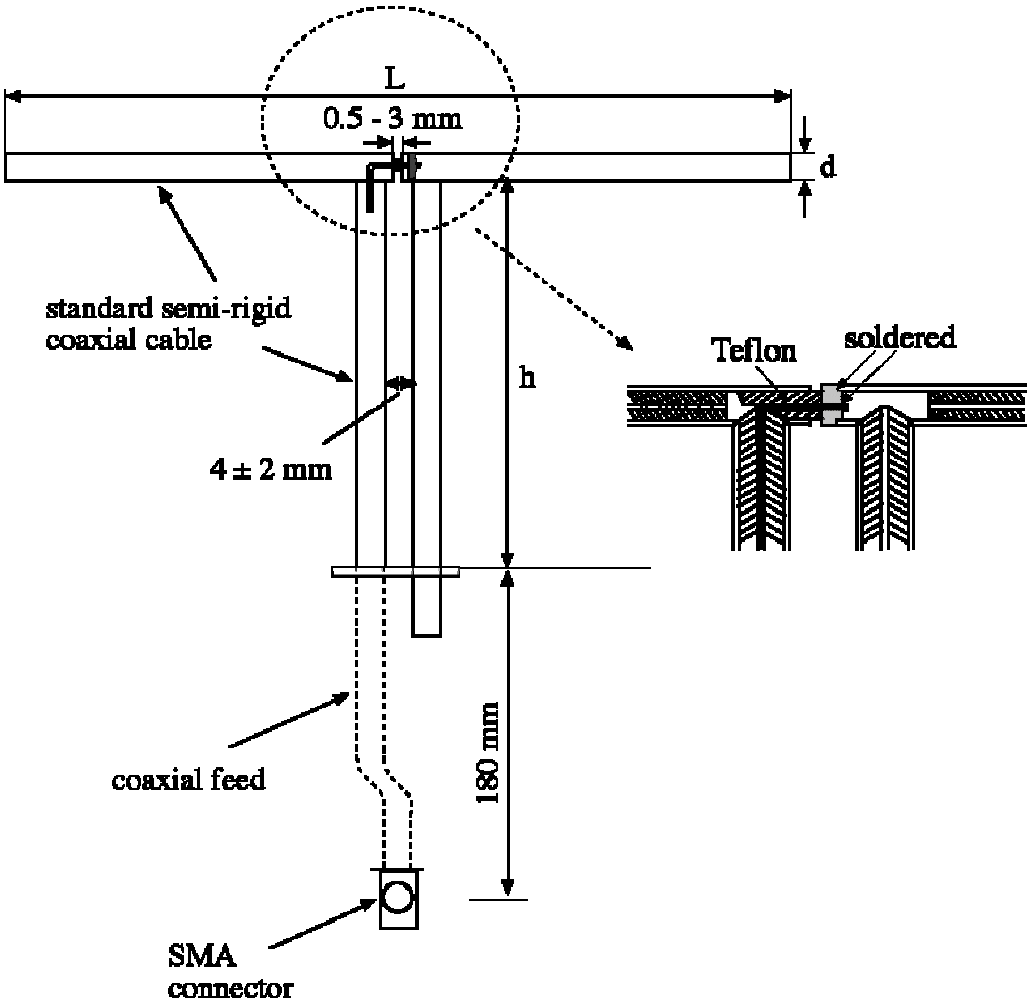
Approved by: 

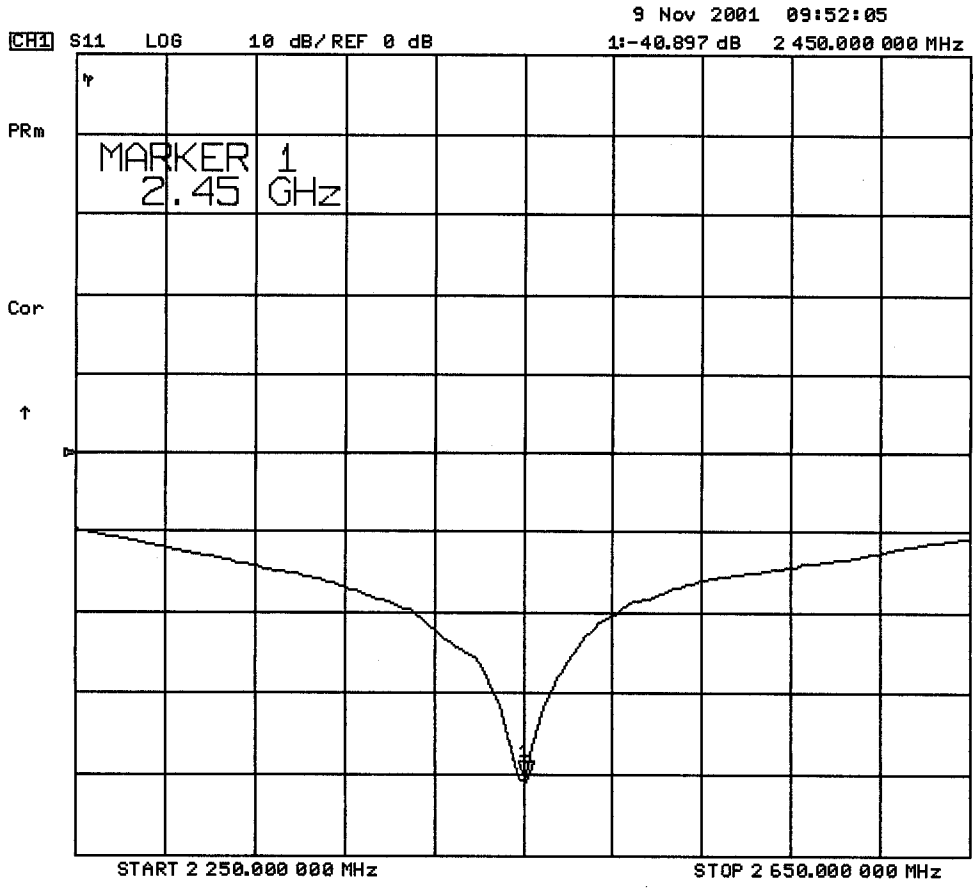
Celltech Research Inc. 1955 Moss Court, Kelowna, B.C. Canada V1Y 9L3
Tel. 250-860-3130 • Fax. 250-860-3110 • e-mail: info@celltechlabs.com
www.celltechlabs.com

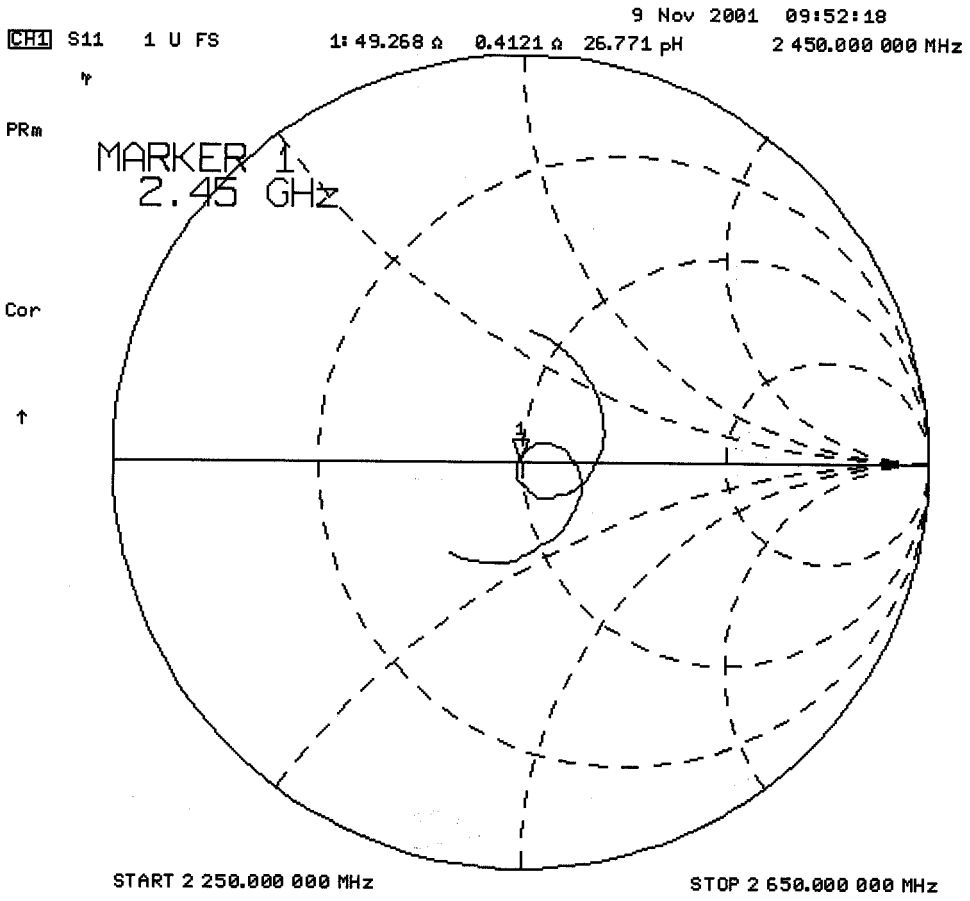
1. Dipole Construction & Electrical Characteristics

The validation dipole was constructed in accordance with the IEEE Std "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques". The electrical properties were measured using an HP 8753E Network Analyzer. The network analyzer was calibrated to the validation dipole N-type connector feed point using an HP85032E Type N calibration kit. The dipole was placed parallel to a planar phantom at a separation distance of 10.0mm from the simulating fluid using a loss-less dielectric spacer. The measured input impedance is:

Feed point impedance at 2450MHz	Re{Z} = 49.268Ω
	Im{Z} = 0.4121Ω
Return Loss at 2450MHz	-40.897dB




9 Nov 2001 09:52:05
CH1 S11 LOG 10 dB/ REF 0 dB
1:-40.897 dB 2 450.000 000 MHz
PRm
MARKER 1
2.45 GHz
Cor
START 2 250.000 000 MHz
STOP 2 650.000 000 MHz


9 Nov 2001 09:52:18
CH1 S11 1 U FS
1: 49.268 Ω 0.4121 Ω 26.771 pH
2 450.000 000 MHz
PRm
MARKER 1
2.45 GHz
Cor
START 2 250.000 000 MHz
STOP 2 650.000 000 MHz

Validation Dipole Dimensions

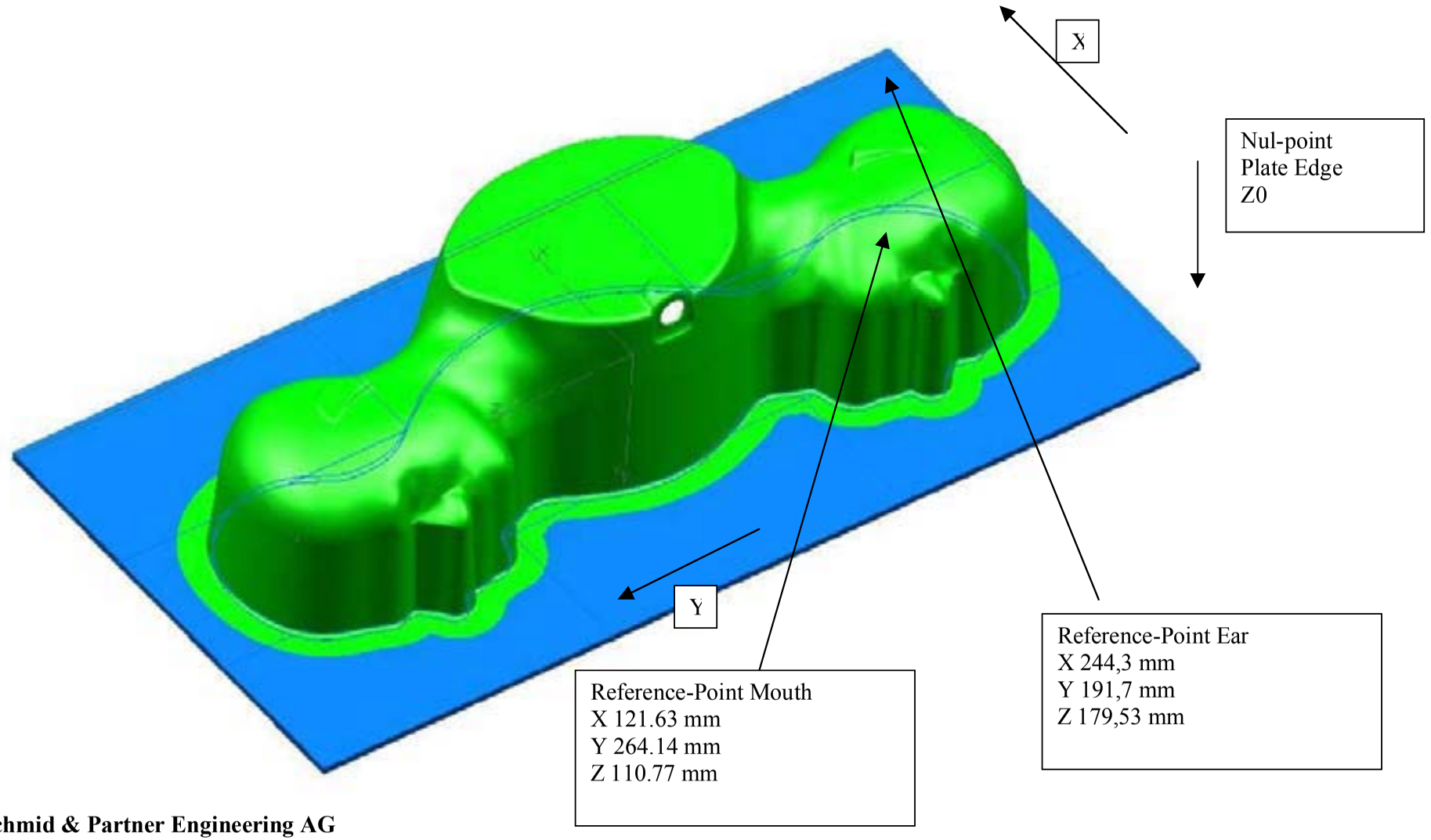
Frequency (MHz)	L (mm)	h (mm)	d (mm)
300	420.0	250.0	6.2
450	288.0	167.0	6.2
835	161.0	89.8	3.6
900	149.0	83.3	3.6
1450	89.1	51.7	3.6
1800	72.0	41.7	3.6
1900	68.0	39.5	3.6
2000	64.5	37.5	3.6
2450	51.8	30.6	3.6
3000	41.5	25.0	3.6

2. Validation Phantom

The validation phantom is the SAM (Specific Anthropomorphic Mannequin) phantom manufactured by Schmid & Partner Engineering AG. The SAM phantom is a Fiberglass shell integrated in a wooden table. The shape of the shell corresponds to the phantom defined by SCC34-SC2. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot.

Shell Thickness: 2 ± 0.1 mm
Filling Volume: Approx. 20 liters
Dimensions: 50 cm (W) x 100 cm (L)

SAM Twin-Phantom



Schmid & Partner Engineering AG

2450MHz Dipole Calibration

2450MHz Dipole Calibration

3. Measurement Conditions

The planar phantom was filled with brain simulating tissue having the following electrical parameters at 2450MHz:

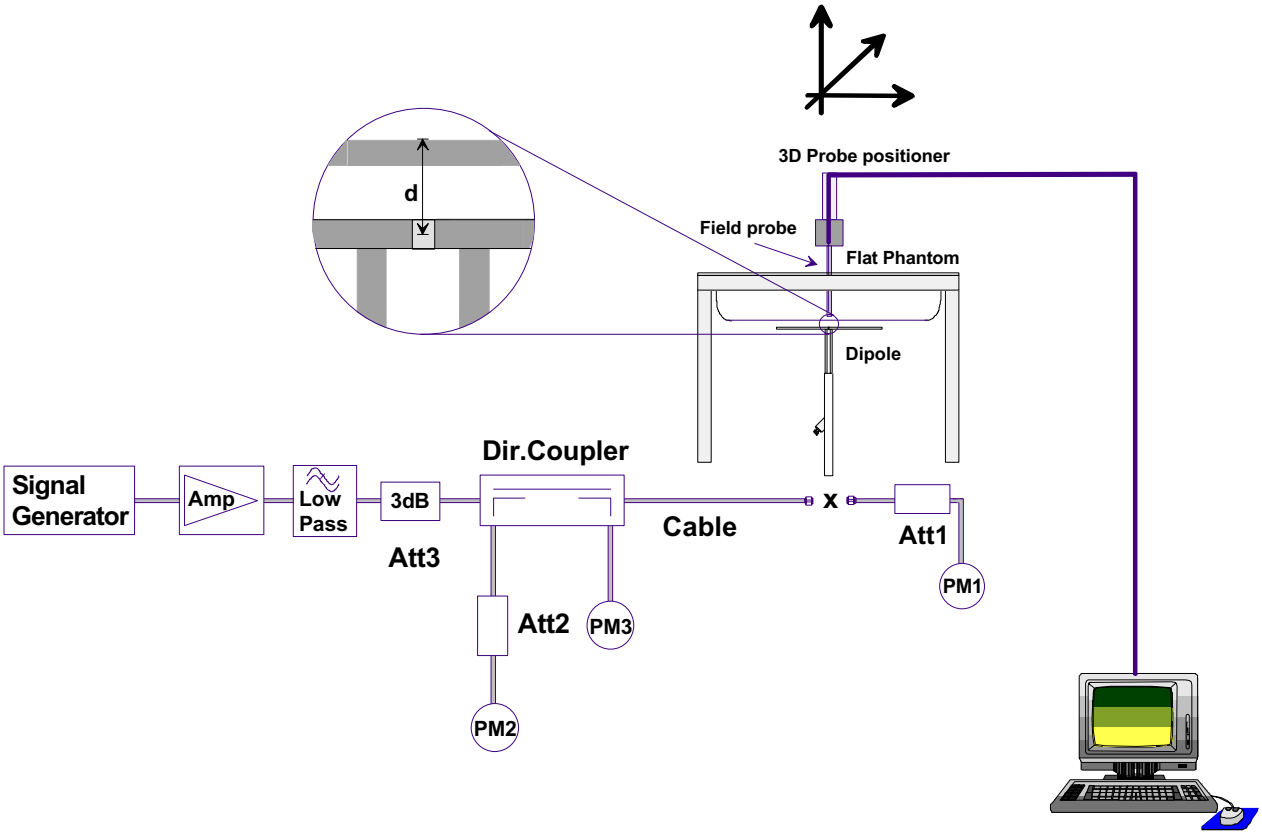
Relative Permitivity:	39.2	± 5%
Conductivity:	1.80 mho/m	± 5%
Temperature:	23.1°C	

The 2450MHz simulating tissue consists of the following ingredients:

Ingredient	Percentage by weight
Water	55.20 %
Glycol Monobutyl	44.80 %
Target Dielectric Parameters at 22°C	ε_r = 39.2 σ = 1.80 S/m

4. SAR Measurement

The SAR measurement was performed with the E-field probe in mechanical detection mode only. The setup and determination of the forward power into the dipole was performed using the following procedures.



First, the power meter PM1 (including attenuator Att1) is connected to the cable to measure the forward power at the location of the dipole connector (X). The signal generator is adjusted for the desired forward power at the dipole connector (taking into account the attenuation of Att1) as read by power meter PM2. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter PM2. If the signal generator does not allow adjustment in 0.01dB steps, the remaining difference at PM2 must be taken into consideration. PM3 records the reflected power from the dipole to ensure that the value is not changed from the previous value. The reflected power should be 20dB below the forward power.

Ten SAR measurements were performed in order to achieve repeatability and to establish an average target value.

Validation Dipole SAR Test Results

Validation Measurement	SAR @ 0.25W Input averaged over 1g	SAR @ 1W Input averaged over 1g	SAR @ 0.25W Input averaged over 10g	SAR @ 1W Input averaged over 10g	Peak SAR @ 0.25W Input
Test 1	14.2	56.80	6.33	25.32	30.5
Test 2	14.3	57.20	6.34	25.36	30.8
Test 3	14.2	56.80	6.33	25.32	30.4
Test 4	14.1	56.40	6.32	25.28	30.1
Test 5	14.3	57.20	6.33	25.32	30.7
Test 6	14.0	56.00	6.31	25.24	30.0
Test 7	14.2	56.80	6.33	25.32	30.4
Test 8	14.2	56.80	6.33	25.32	30.5
Test 9	14.4	57.60	6.34	25.36	30.8
Test10	14.2	56.80	6.32	25.28	30.4
Average Value	14.21	56.84	6.32	25.31	30.46

The results have been normalized to 1W (forward power) into the dipole.

Averaged over 1cm (1g) of tissue: 56.84 mW/g

Averaged over 10cm (10g) of tissue: 25.31 mW/g

Dipole 2450MHz

SAM Phantom; Flat Section

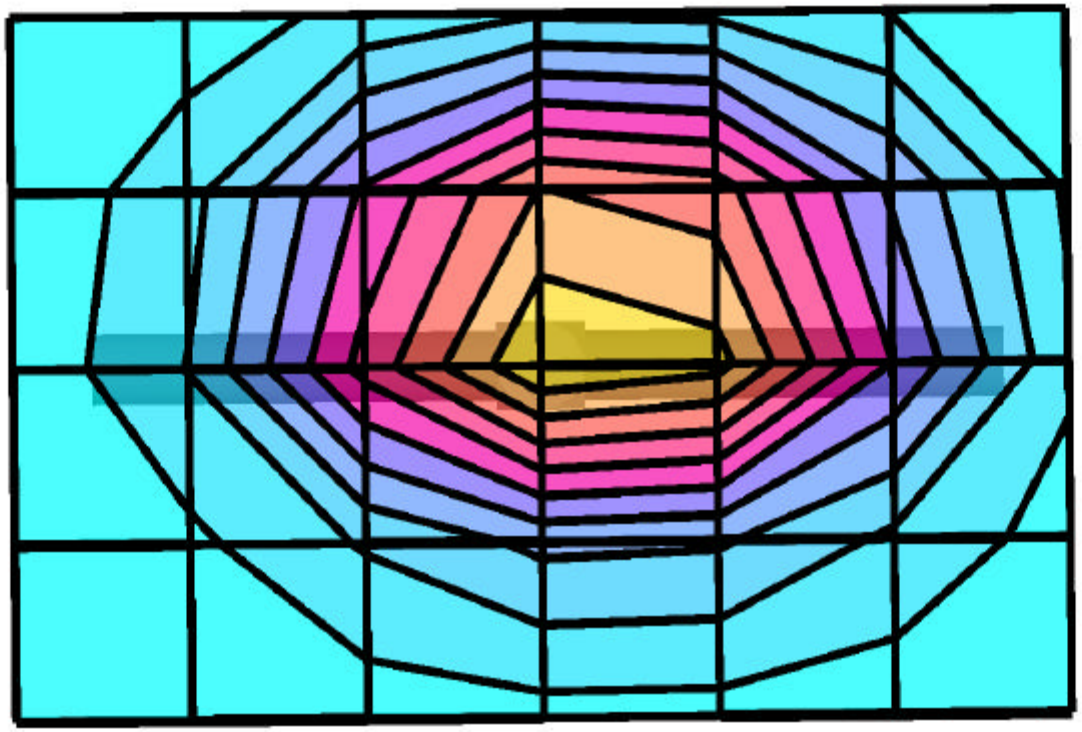
Probe: ET3DV6 - SN1590; ConvF(4.93,4.93,4.93); Crest factor: 1.0; 2450 MHz Brain: σ = 1.80 mho/m ε_r = 39.2 ρ = 1.00 g/cm^3

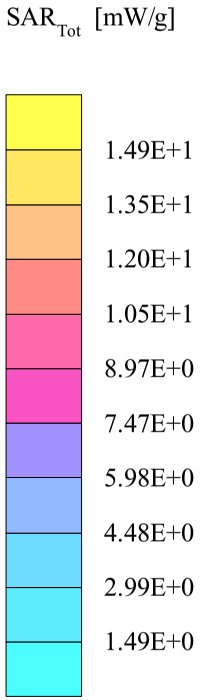
Cube 5x5x7: Peak: 30.5 mW/g, SAR (1g): 14.2 mW/g, SAR (10g): 6.33 mW/g, (Worst-case extrapolation)

Penetration depth: 6.2 (5.9, 7.0) [mm]; Ambient Temp: 21.5°C; Fluid Temp: 23.1°C

Powerdrift: 0.03 dB

Calibration Date: October 24, 2001





APPENDIX D - PROBE CALIBRATION

Schmid & Partner
Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland, Phone +41 1 245 97 00, Fax +41 1 245 97 79

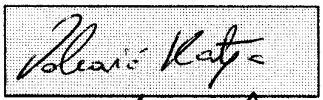
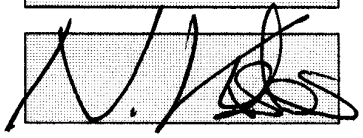
Calibration Certificate

Dosimetric E-Field Probe

Type:	**ET3DV6**
Serial Number:	**1387**
Place of Calibration:	**Zurich**
Date of Calibration:	**February 22, 2002**
Calibration Interval:	**12 months**

Schmid & Partner Engineering AG hereby certifies, that this device has been calibrated on the date indicated above. The calibration was performed in accordance with specifications and procedures of Schmid & Partner Engineering AG.

Wherever applicable, the standards used in the calibration process are traceable to international standards. In all other cases the standards of the Laboratory for EMF and Microwave Electronics at the Swiss Federal Institute of Technology (ETH) in Zurich, Switzerland have been applied.

Calibrated by:	
Approved by:	

Probe ET3DV6

SN:1387

Manufactured:	September 21, 1999
Last calibration:	September 22, 1999
Recalibrated:	February 22, 2002

Calibrated for System DASY3

DASY3 - Parameters of Probe: ET3DV6 SN:1387

Sensitivity in Free Space

Diode Compression

NormX	**1.58**	$\mu V/(V/m)^2$	DCP X	**97**	mV
NormY	**1.67**	$\mu V/(V/m)^2$	DCP Y	**97**	mV
NormZ	**1.67**	$\mu V/(V/m)^2$	DCP Z	**97**	mV

Sensitivity in Tissue Simulating Liquid

Head **900 MHz** **ε_r = 41.5 ± 5%** **σ = 0.97 ± 5% mho/m**
Head **835 MHz** **ε_r = 41.5 ± 5%** **σ = 0.90 ± 5% mho/m**

ConvF X	**6.6**	± 9.5% (k=2)	Boundary effect:	
ConvF Y	**6.6**	± 9.5% (k=2)	Alpha	**0.40**
ConvF Z	**6.6**	± 9.5% (k=2)	Depth	**2.38**

Head **1800 MHz** **ε_r = 40.0 ± 5%** **σ = 1.40 ± 5% mho/m**
Head **1900 MHz** **ε_r = 40.0 ± 5%** **σ = 1.40 ± 5% mho/m**

ConvF X	**5.4**	± 9.5% (k=2)	Boundary effect:	
ConvF Y	**5.4**	± 9.5% (k=2)	Alpha	**0.57**
ConvF Z	**5.4**	± 9.5% (k=2)	Depth	**2.18**

Boundary Effect

Head **900 MHz** **Typical SAR gradient: 5 % per mm**

Probe Tip to Boundary		**1 mm**	**2 mm**
SAR_{be} [%]	Without Correction Algorithm	9.7	5.4
SAR_{be} [%]	With Correction Algorithm	0.3	0.6

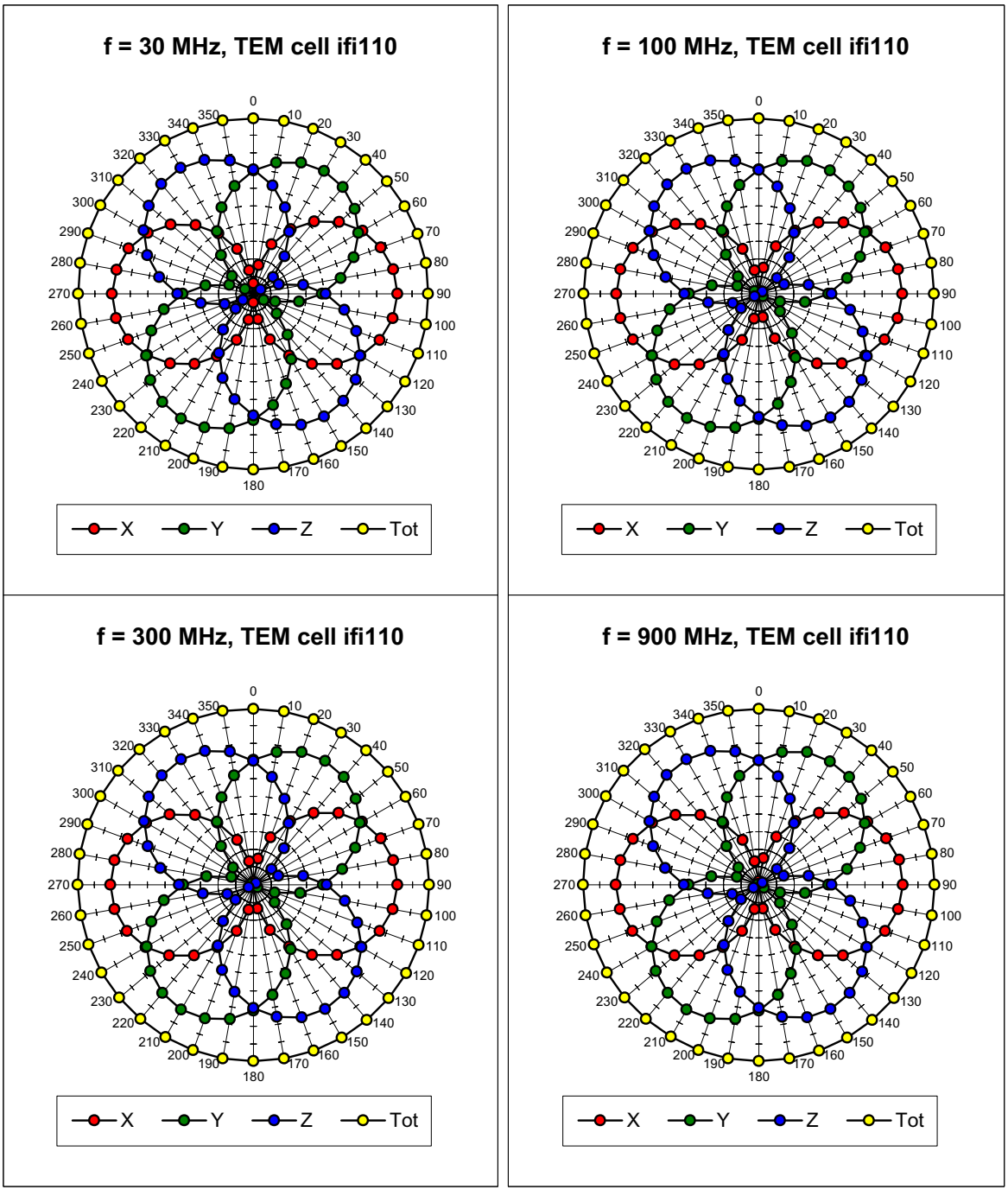
Head **1800 MHz** **Typical SAR gradient: 10 % per mm**

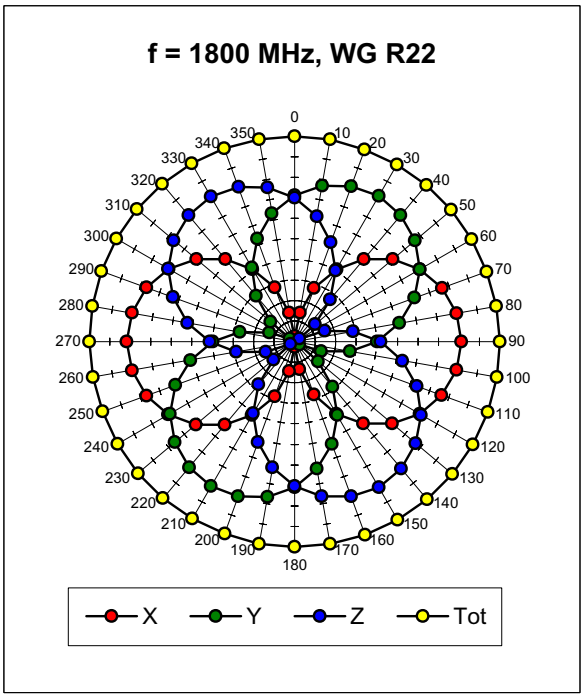
Probe Tip to Boundary		**1 mm**	**2 mm**
SAR_{be} [%]	Without Correction Algorithm	11.5	7.3
SAR_{be} [%]	With Correction Algorithm	0.1	0.3

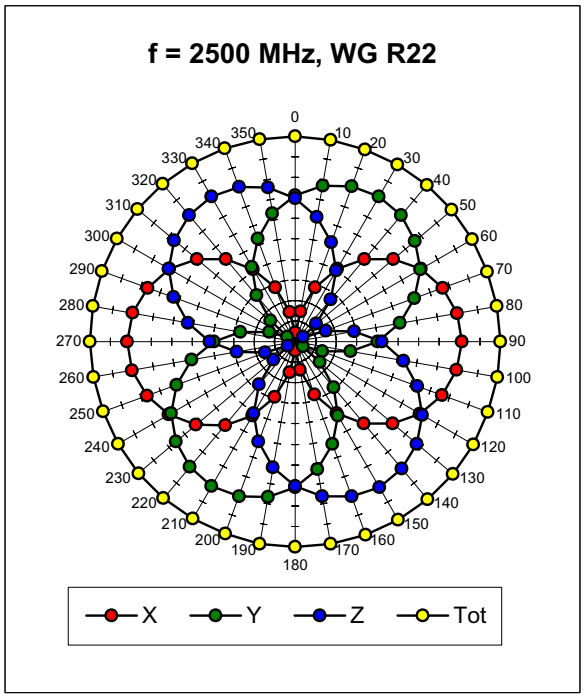
Sensor Offset

Probe Tip to Sensor Center	**2.7**	mm
Optical Surface Detection	**1.3 ± 0.2**	mm

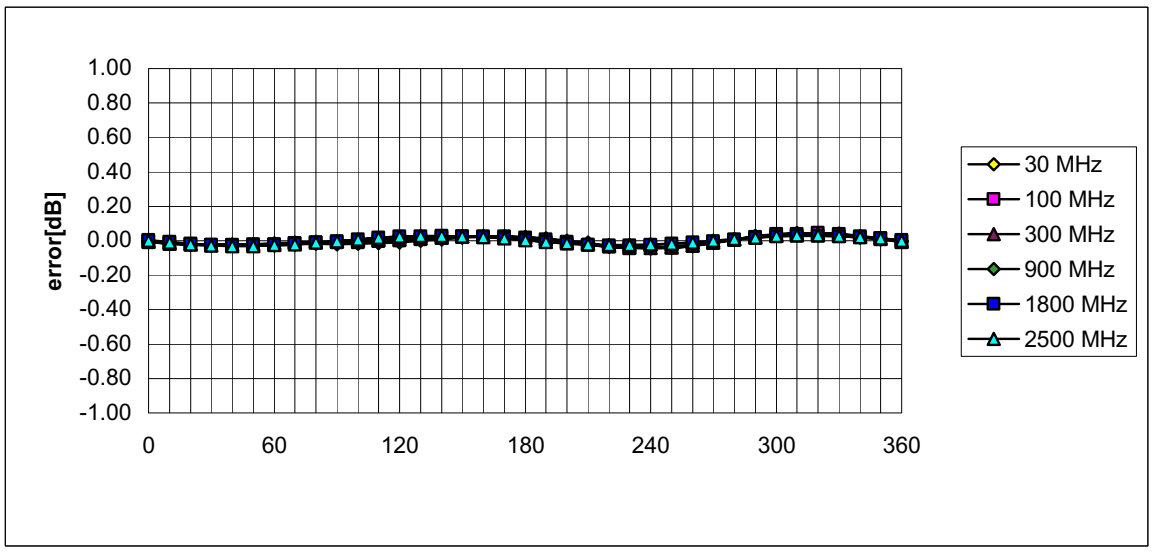
Receiving Pattern (ϕ , θ = 0°





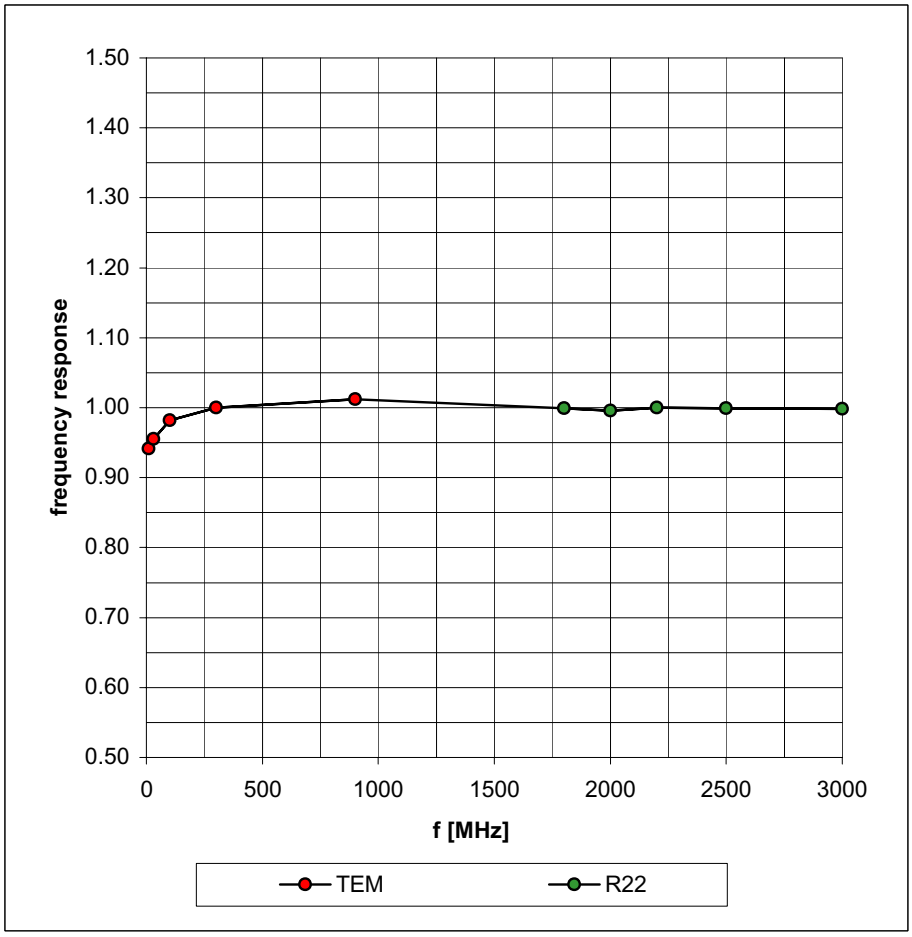


Isotropy Error (ϕ), θ = 0°



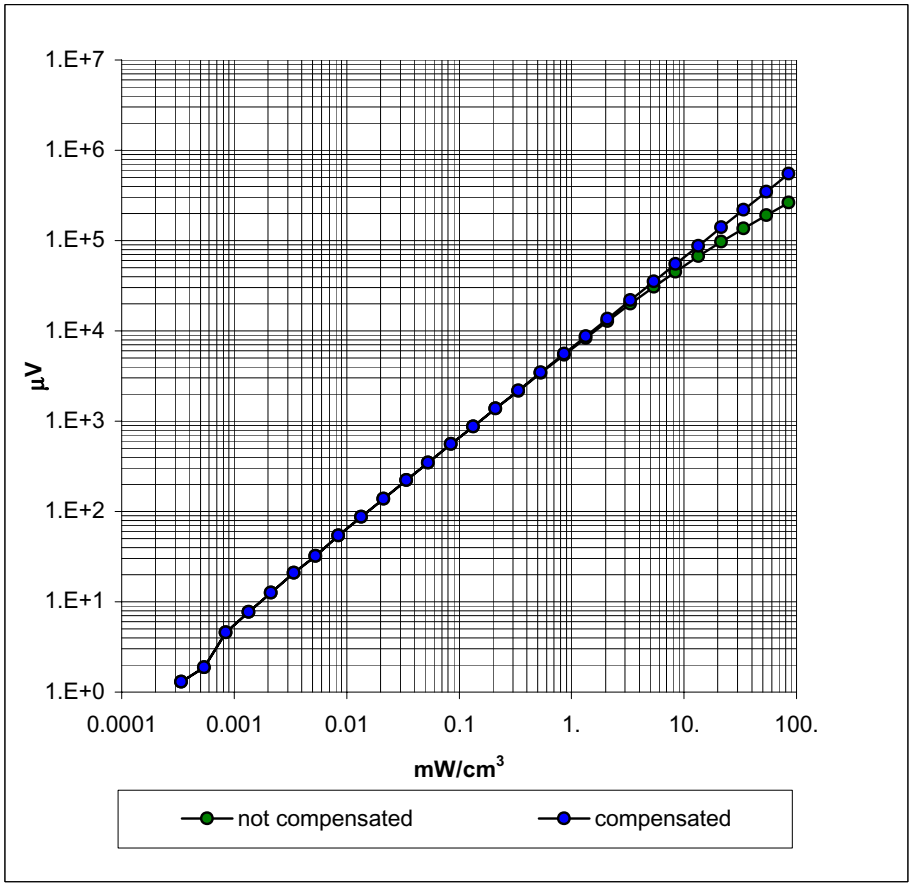
Frequency Response of E-Field

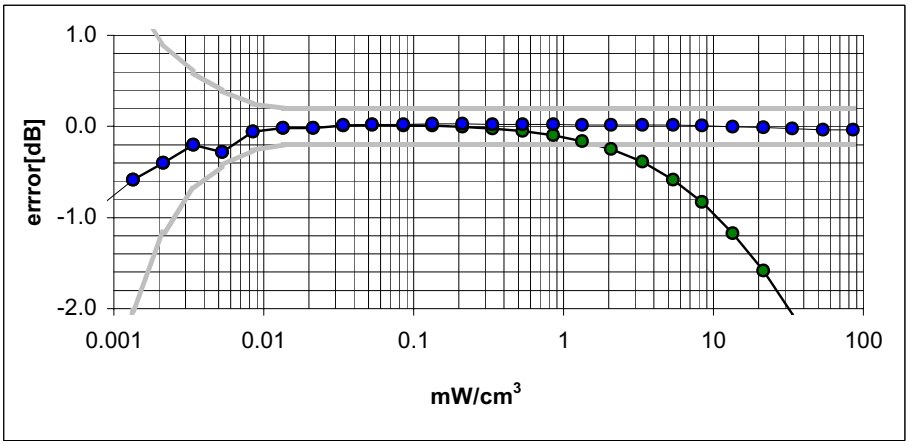
(TEM-Cell:ifi110, Waveguide R22)



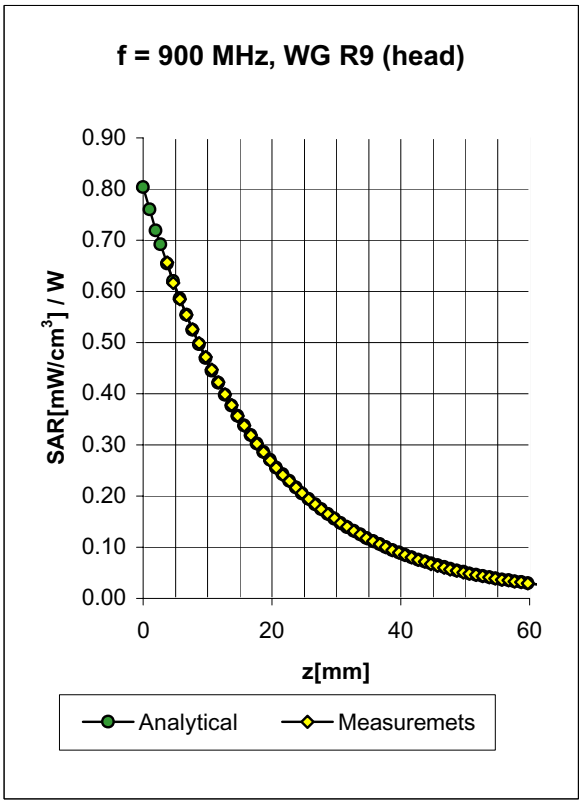
Dynamic Range f(SAR_{brain})

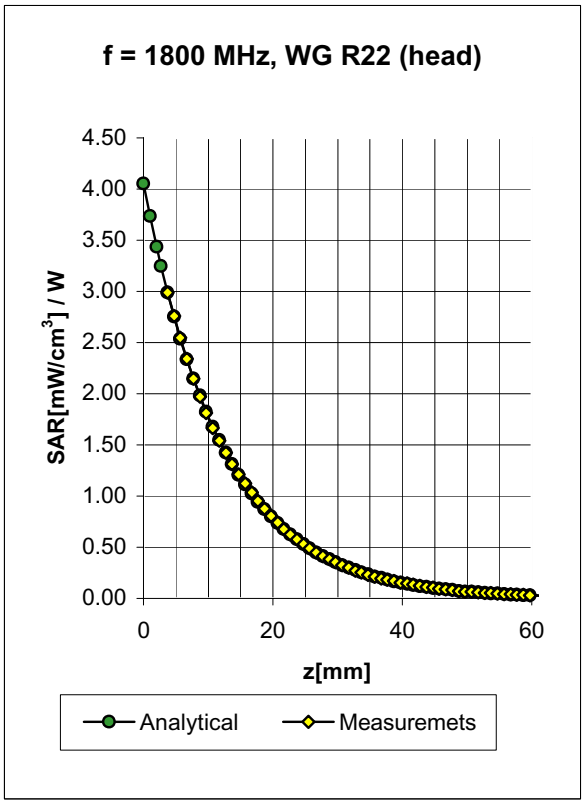
(Waveguide R22)





Conversion Factor Assessment



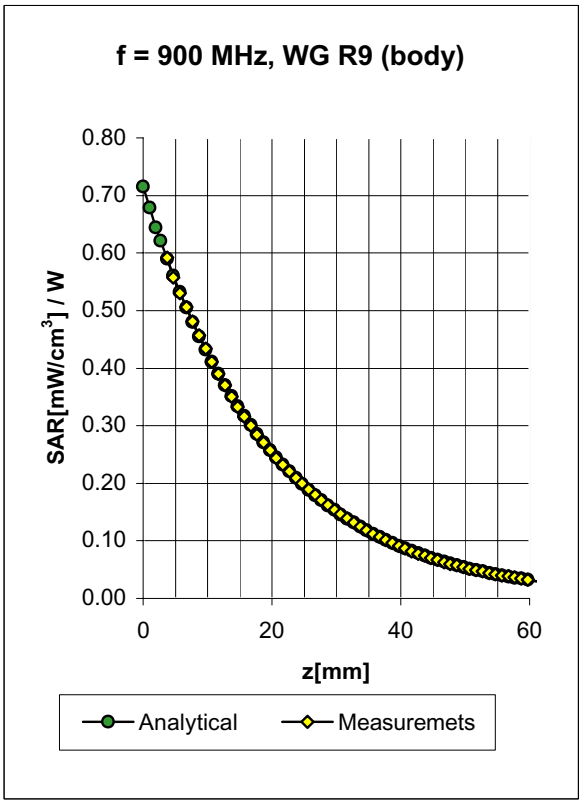


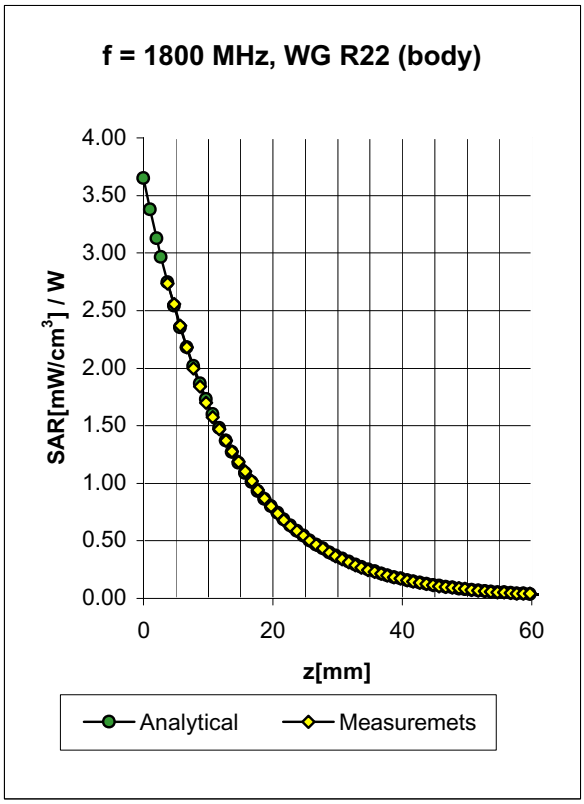
Head	**900 MHz**		**ε_r = 41.5 ± 5%**	**σ = 0.97 ± 5% mho/m**
Head	**835 MHz**		**ε_r = 41.5 ± 5%**	**σ = 0.90 ± 5% mho/m**
	ConvF X	**6.6** ± 9.5% (k=2)		Boundary effect:
	ConvF Y	**6.6** ± 9.5% (k=2)		Alpha **0.40**
	ConvF Z	**6.6** ± 9.5% (k=2)		Depth **2.38**

Head	**1800 MHz**		**ε_r = 40.0 ± 5%**	**σ = 1.40 ± 5% mho/m**
Head	**1900 MHz**		**ε_r = 40.0 ± 5%**	**σ = 1.40 ± 5% mho/m**
	ConvF X	**5.4** ± 9.5% (k=2)		Boundary effect:
	ConvF Y	**5.4** ± 9.5% (k=2)		Alpha **0.57**
	ConvF Z	**5.4** ± 9.5% (k=2)		Depth **2.18**

ET3DV6 SN:1387 **February 22, 2002**

Conversion Factor Assessment





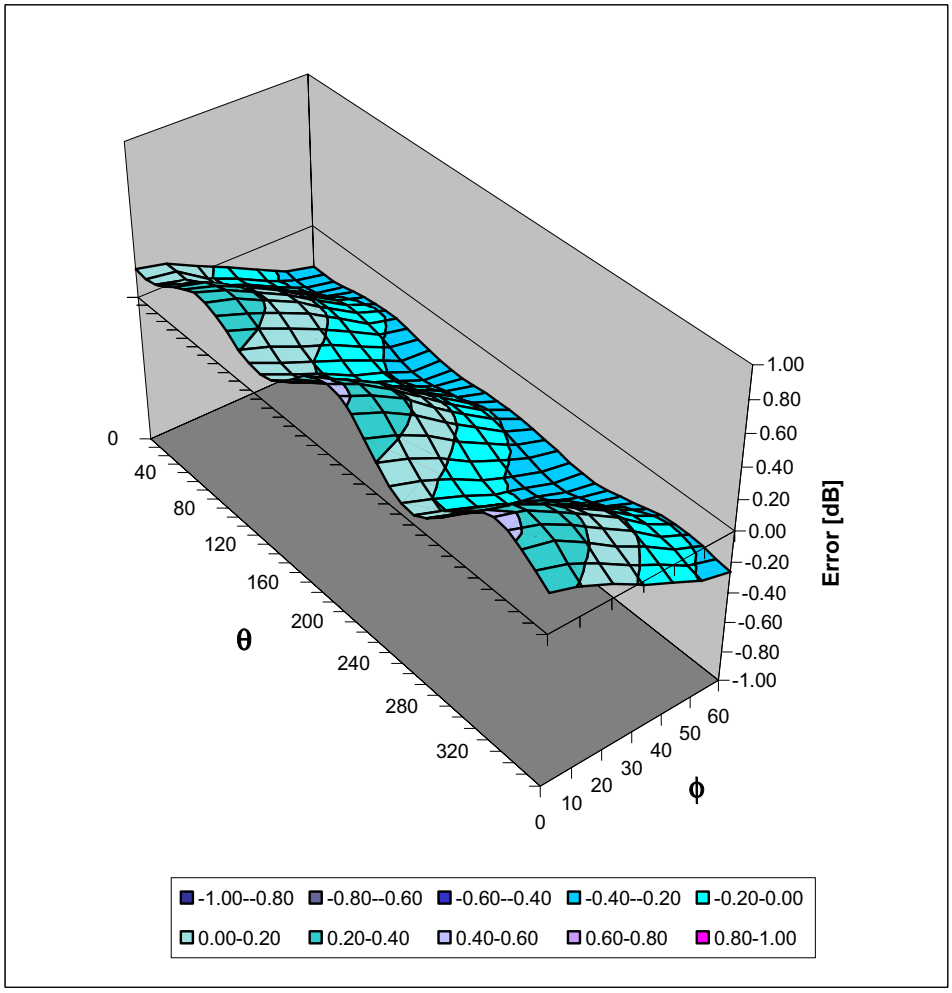
Body	**900 MHz**	ε_r **= 55.0 ± 5%**	**σ = 1.05 ± 5% mho/m**	
Body	**835 MHz**	ε_r **= 55.2 ± 5%**	**σ = 0.97 ± 5% mho/m**	
	ConvF X	**6.3** ± 9.5% (k=2)	Boundary effect:	
	ConvF Y	**6.3** ± 9.5% (k=2)	Alpha	**0.42**
	ConvF Z	**6.3** ± 9.5% (k=2)	Depth	**2.44**

Body	**1800 MHz**	ε_r **= 53.3 ± 5%**	**σ = 1.52 ± 5% mho/m**	
Body	**1900 MHz**	ε_r **= 53.3 ± 5%**	**σ = 1.52 ± 5% mho/m**	
	ConvF X	**5.0** ± 9.5% (k=2)	Boundary effect:	
	ConvF Y	**5.0** ± 9.5% (k=2)	Alpha	**0.76**
	ConvF Z	**5.0** ± 9.5% (k=2)	Depth	**2.01**

ET3DV6 SN:1387 **February 22, 2002**

Deviation from Isotropy in HSL

Error ($\theta\phi$), f = 900 MHz



Schmid & Partner
Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland, Phone +41 1 245 97 00, Fax +41 1 245 97 79

Additional Conversion Factors

for Dosimetric E-Field Probe

Type:	**ET3DV6**
Serial Number:	**1387**
Place of Assessment:	**Zurich**
Date of Assessment:	**February 25, 2002**
Probe Calibration Date:	**February 22, 2002**

Schmid & Partner Engineering AG hereby certifies that conversion factor(s) of this probe have been evaluated on the date indicated above. The assessment was performed using the FDTD numerical code SEMCAD of Schmid & Partner Engineering AG. Since the evaluation is coupled with measured conversion factors, it has to be recalculated yearly, i.e., following the re-calibration schedule of the probe. The uncertainty of the numerical assessment is based on the extrapolation from measured value at 900 MHz or at 1800 MHz.

Assessed by:

Dosimetric E-Field Probe ET3DV6 SN:1387

Conversion Factor (± standard deviation)

150 MHz	ConvF	**9.2 ± 8%**	**ε_r = 52.3** **σ = 0.76 mho/m** (head tissue)
300 MHz	ConvF	**8.0 ± 8%**	**ε_r = 45.3** **σ = 0.87 mho/m** (head tissue)
450 MHz	ConvF	**7.3 ± 8%**	**ε_r = 43.5** **σ = 0.87 mho/m** (head tissue)
2450 MHz	ConvF	**4.7 ± 8%**	**ε_r = 39.2** **σ = 1.80 mho/m** (head tissue)
150 MHz	ConvF	**8.8 ± 8%**	**ε_r = 61.9** **σ = 0.80 mho/m** (body tissue)
450 MHz	ConvF	**7.7 ± 8%**	**ε_r = 56.7** **σ = 0.94 mho/m** (body tissue)
2450 MHz	ConvF	**4.3 ± 8%**	**ε_r = 52.7** **σ = 1.95 mho/m** (body tissue)

APPENDIX E - MEASURED FLUID DIELECTRIC PARAMETERS

2450MHz System Validation

Measured Fluid Dielectric Parameters (Brain)

September 05, 2002

Frequency	e'	e"
2.350000000 GHz	39.4686	13.3840
2.360000000 GHz	39.4230	13.3972
2.370000000 GHz	39.3979	13.4359
2.380000000 GHz	39.3847	13.4904
2.390000000 GHz	39.3563	13.5557
2.400000000 GHz	39.2921	13.5921
2.410000000 GHz	39.2129	13.6134
2.420000000 GHz	39.1878	13.6362
2.430000000 GHz	39.1630	13.6647
2.440000000 GHz	39.0986	13.7088
2.450000000 GHz	39.0416	13.7152
2.460000000 GHz	38.9798	13.7120
2.470000000 GHz	38.9570	13.7256
2.480000000 GHz	38.9504	13.7593
2.490000000 GHz	38.8978	13.8265
2.500000000 GHz	38.8661	13.8806
2.510000000 GHz	38.7963	13.8983
2.520000000 GHz	38.7616	13.9529
2.530000000 GHz	38.7066	13.9751
2.540000000 GHz	38.6431	14.0057
2.550000000 GHz	38.6032	13.9805

2450MHz EUT Evaluation (Body)

Measured Fluid Dielectric Parameters (Muscle)

September 05, 2002

Frequency	e'	e''
2.400000000 GHz	50.3501	14.4921
2.405000000 GHz	50.3188	14.5117
2.410000000 GHz	50.2987	14.5435
2.415000000 GHz	50.2726	14.5608
2.420000000 GHz	50.2558	14.5854
2.425000000 GHz	50.2293	14.6108
2.430000000 GHz	50.2076	14.6308
2.435000000 GHz	50.1965	14.6563
2.440000000 GHz	50.1759	14.6825
2.445000000 GHz	50.1460	14.6947
2.450000000 GHz	50.1368	14.7148
2.455000000 GHz	50.1116	14.7543
2.460000000 GHz	50.0937	14.7635
2.465000000 GHz	50.0743	14.7892
2.470000000 GHz	50.0521	14.8002
2.475000000 GHz	50.0415	14.8265
2.480000000 GHz	50.0265	14.8400
2.485000000 GHz	50.0133	14.8516
2.490000000 GHz	49.9941	14.8670
2.495000000 GHz	49.9706	14.8696
2.500000000 GHz	49.9485	14.8672
2.505000000 GHz	49.9221	14.8847
2.510000000 GHz	49.8862	14.9032
2.515000000 GHz	49.8617	14.9187
2.520000000 GHz	49.8192	14.9459
2.525000000 GHz	49.8147	14.9624
2.530000000 GHz	49.7877	14.9781
2.535000000 GHz	49.7495	15.0079
2.540000000 GHz	49.7336	15.0319
2.545000000 GHz	49.7044	15.0509
2.550000000 GHz	49.6947	15.0676
2.555000000 GHz	49.6795	15.0913
2.560000000 GHz	49.6681	15.1178
2.565000000 GHz	49.6508	15.1335

APPENDIX F - SAM PHANTOM CERTIFICATE OF CONFORMITY

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland, Phone +41 1 245 97 00, Fax +41 1 245 97 79

Certificate of conformity / First Article Inspection

Item	SAM Twin Phantom V4.0
Type No	QD 000 P40 BA
Series No	TP-1002 and higher
Manufacturer / Origin	Untersee Composites Hauptstr. 69 CH-8559 Fruthwilen Switzerland

Tests

The series production process used allows the limitation to test of first articles.
Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series units (called samples).

Test	Requirement	Details	Units tested
Shape	Compliance with the geometry according to the CAD model.	IT'IS CAD File (*)	First article, Samples
Material thickness	Compliant with the requirements according to the standards	2mm +/- 0.2mm in specific areas	First article, Samples
Material parameters	Dielectric parameters for required frequencies	200 MHz – 3 GHz Relative permittivity < 5 Loss tangent < 0.05.	Material sample TP 104-5
Material resistivity	The material has been tested to be compatible with the liquids defined in the standards	Liquid type HSL 1800 and others according to the standard.	Pre-series, First article

Standards

[1] CENELEC EN 50361
[2] IEEE P1528-200x draft 6.5
[3] IEC PT 62209 draft 0.9
(*) The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of [1] and [3].

Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standard [1] and draft standards [2] and [3].

Date 18.11.2001

Signature / Stamp Schmid & Partner Engineering AG
Zeughausstrasse 43, CH-8004 Zurich
Tel. +41 1 245 97 00, Fax +41 1 245 97 79

APPENDIX G - SAR TEST SETUP & EUT PHOTOGRAPHS

BODY SAR TEST SETUP PHOTOGRAPHS

Back Side of Front Patch Antenna (Non-Radiating Side)
Inside Front of Vest Touching Planar Phantom

BODY SAR TEST SETUP PHOTOGRAPHS

Back Side of Rear Patch Antenna (Non-Radiating Side)
Inside Back of Vest Touching Planar Phantom

BODY SAR TEST SETUP PHOTOGRAPHS

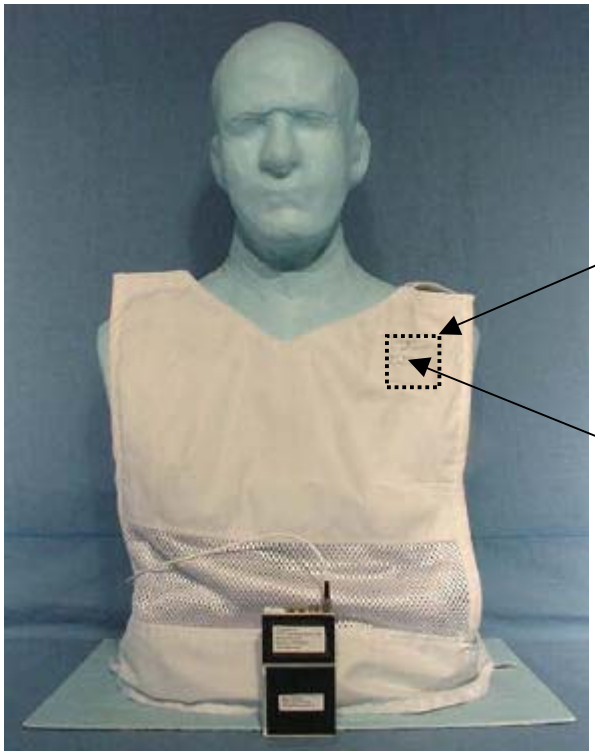
Front Side of Front Patch Antenna (Radiating Side)
Outside Front of Vest Touching Planar Phantom

BODY SAR TEST SETUP PHOTOGRAPHS

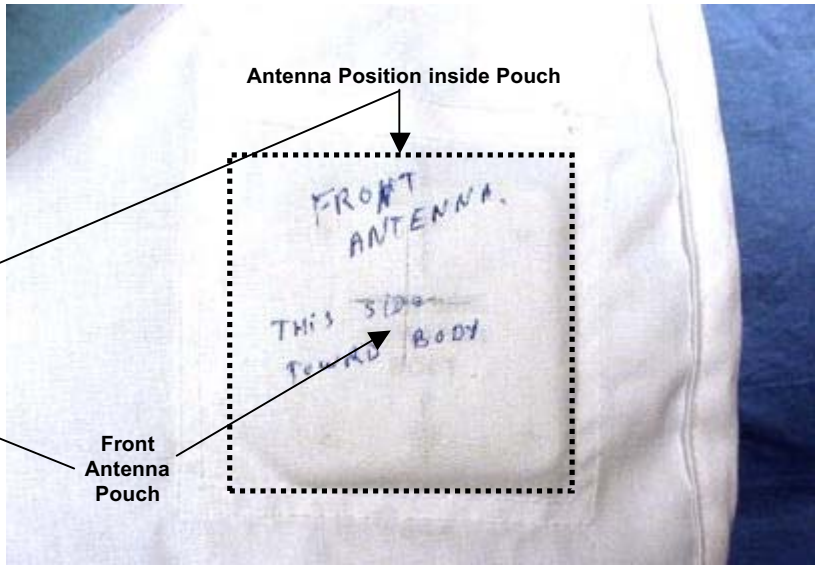
Front Side of Rear Patch Antenna (Radiating Side)
Outside Back of Vest Touching Planar Phantom

EUT PHOTOGRAPHS

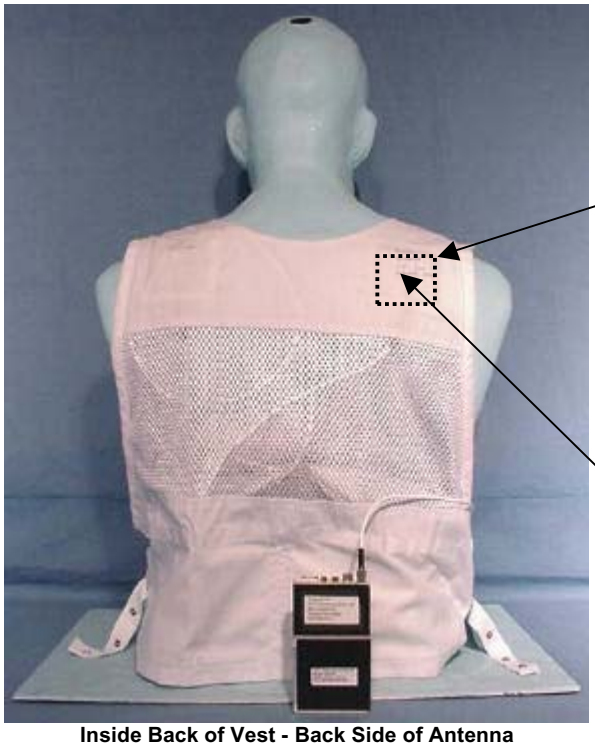
Inside of Vest



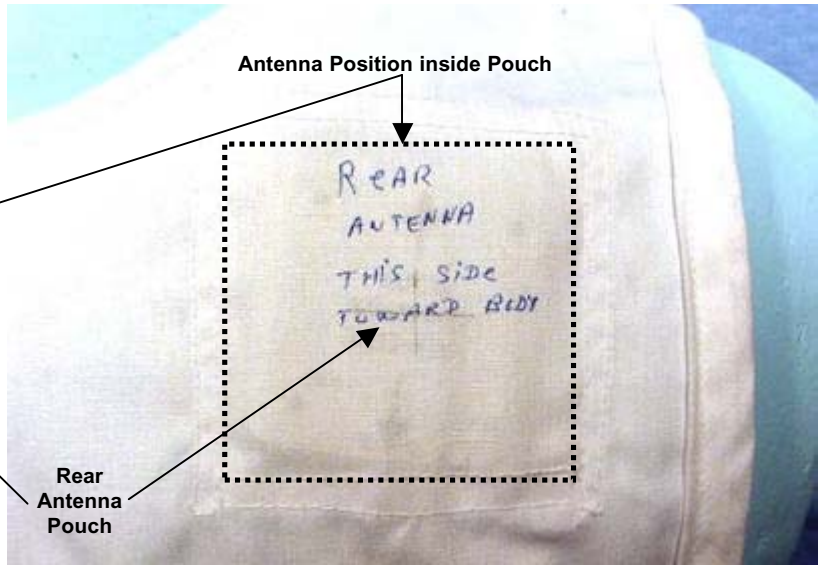
Inside Front of Vest - Back Side of Antenna



Inside Front of Vest - Back Side of Antenna (Non-Radiating Side facing body)



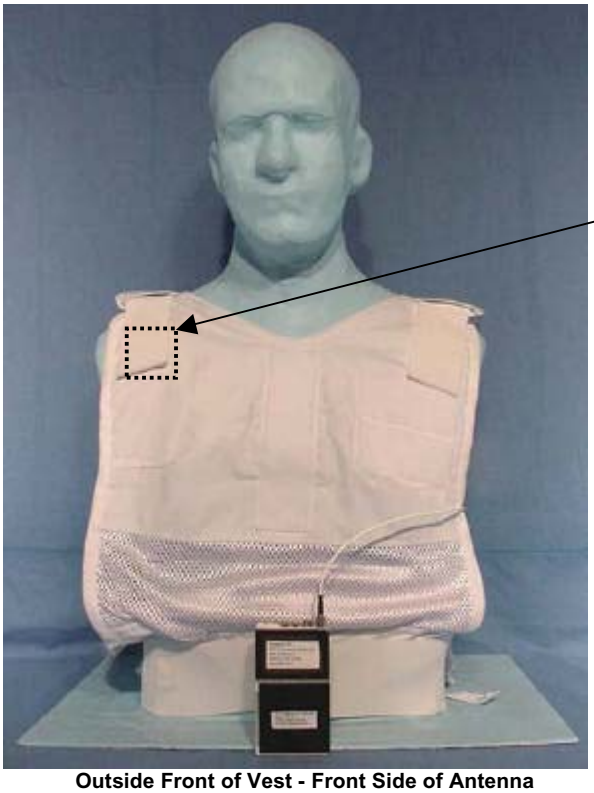
Inside Back of Vest - Back Side of Antenna



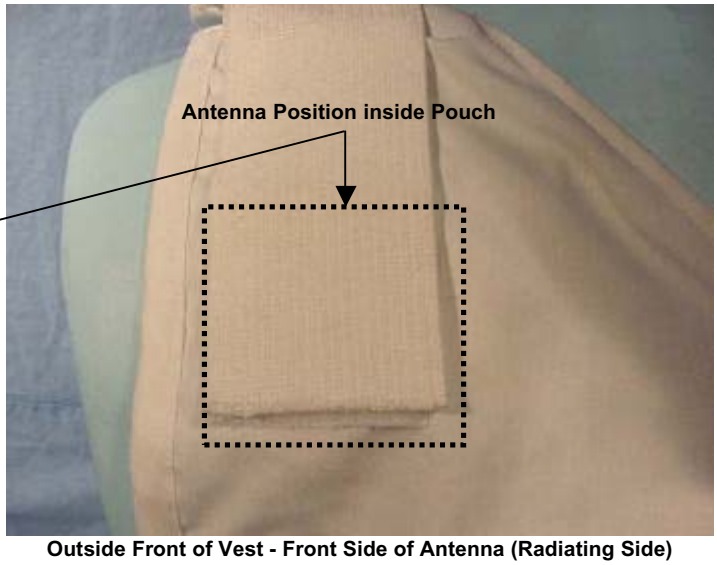
Inside Back of Vest - Back Side of Antenna (Non-Radiating Side facing body)

EUT PHOTOGRAPHS

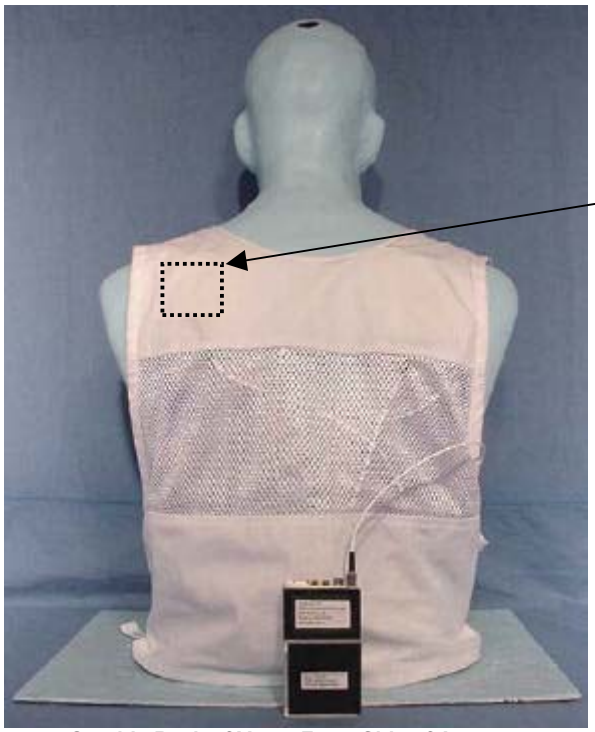
Outside of Vest



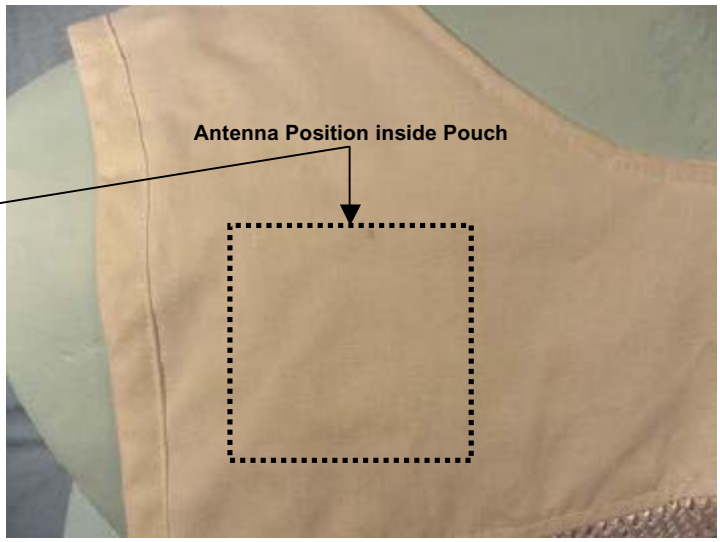
Outside Front of Vest - Front Side of Antenna



Outside Front of Vest - Front Side of Antenna (Radiating Side)

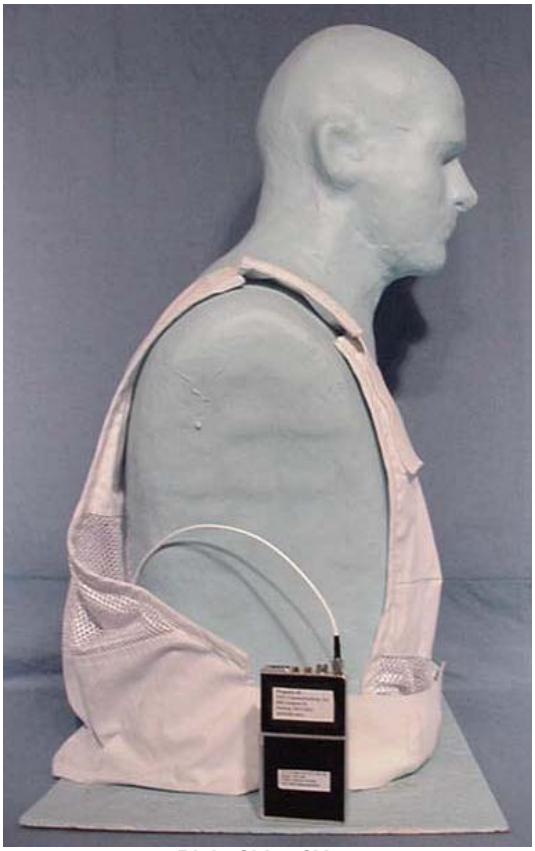


Outside Back of Vest - Front Side of Antenna

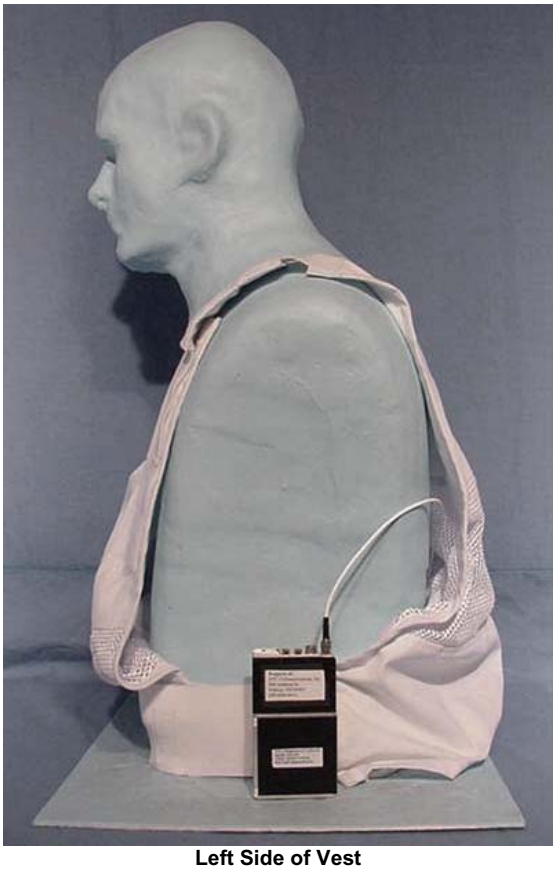


Outside Back of Vest - Front Side of Antenna (Radiating Side)

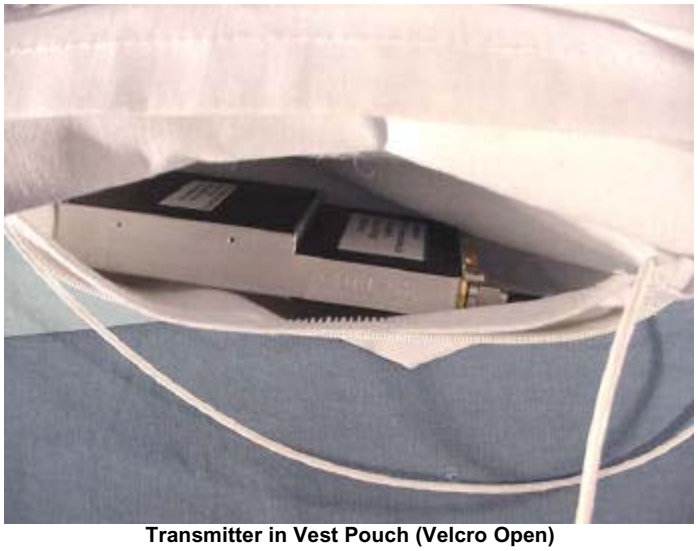
EUT PHOTOGRAPHS
Vest & Transmitter



Right Side of Vest



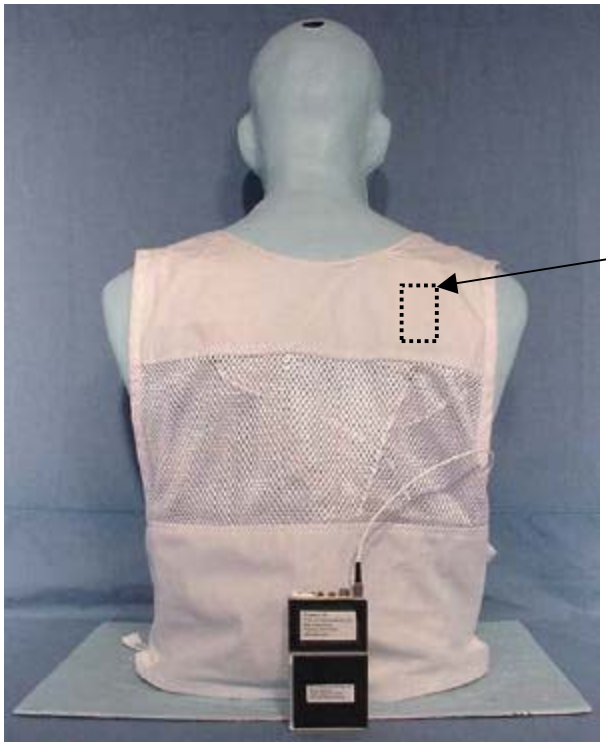
Left Side of Vest



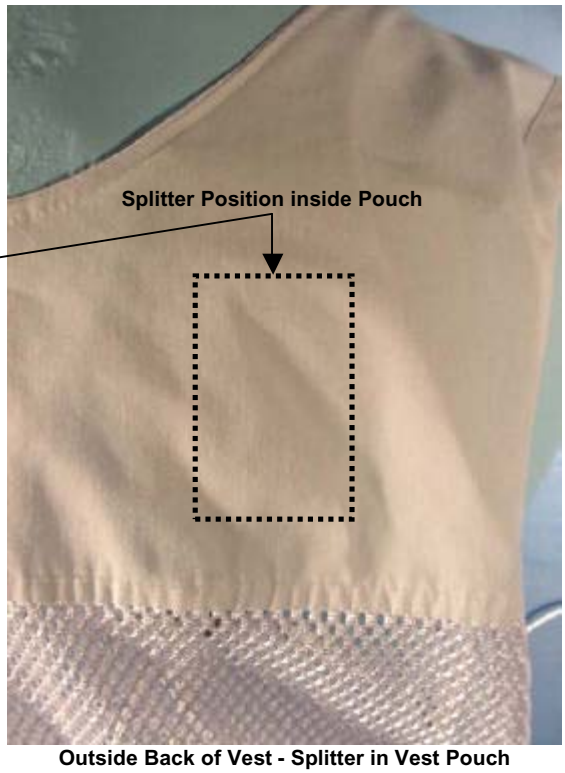
Transmitter in Vest Pouch (Velcro Open)

Transmitter in Vest Pouch (Velcro Closed)

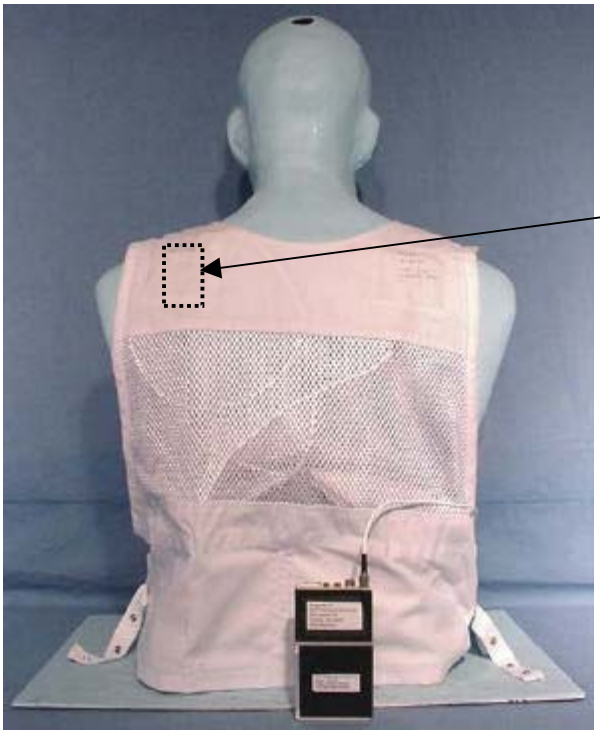
EUT PHOTOGRAPHS
Vest & Splitter



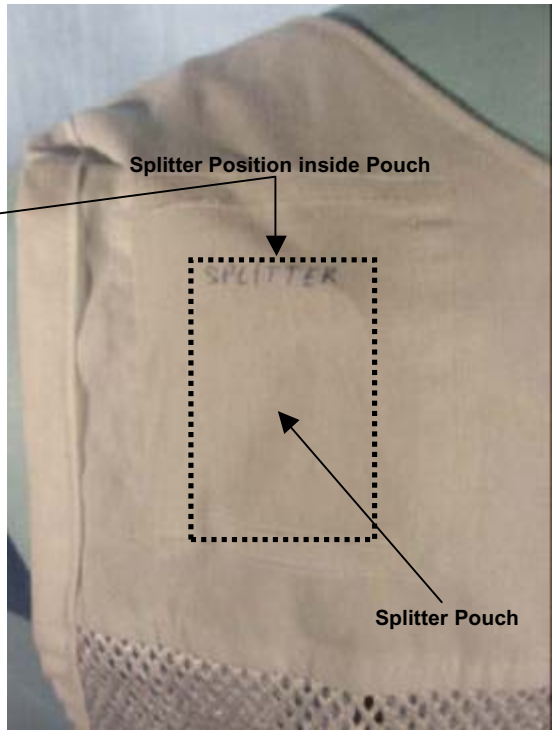
Outside Back of Vest - Splitter in Vest Pouch



Outside Back of Vest - Splitter in Vest Pouch

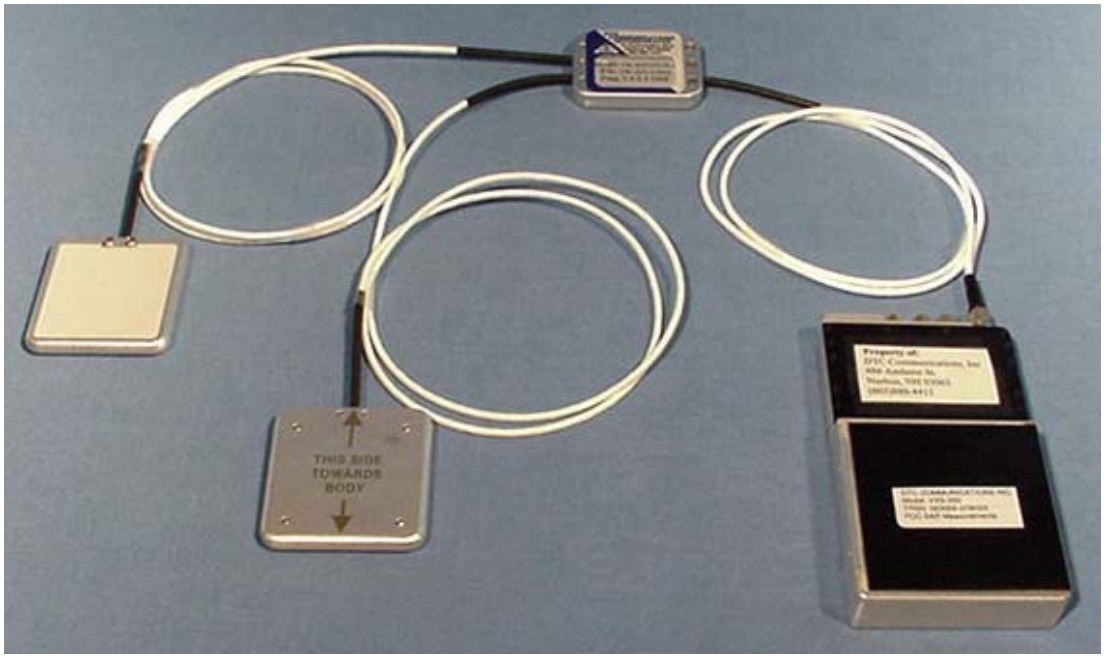


Inside Back of Vest - Splitter in Vest Pouch

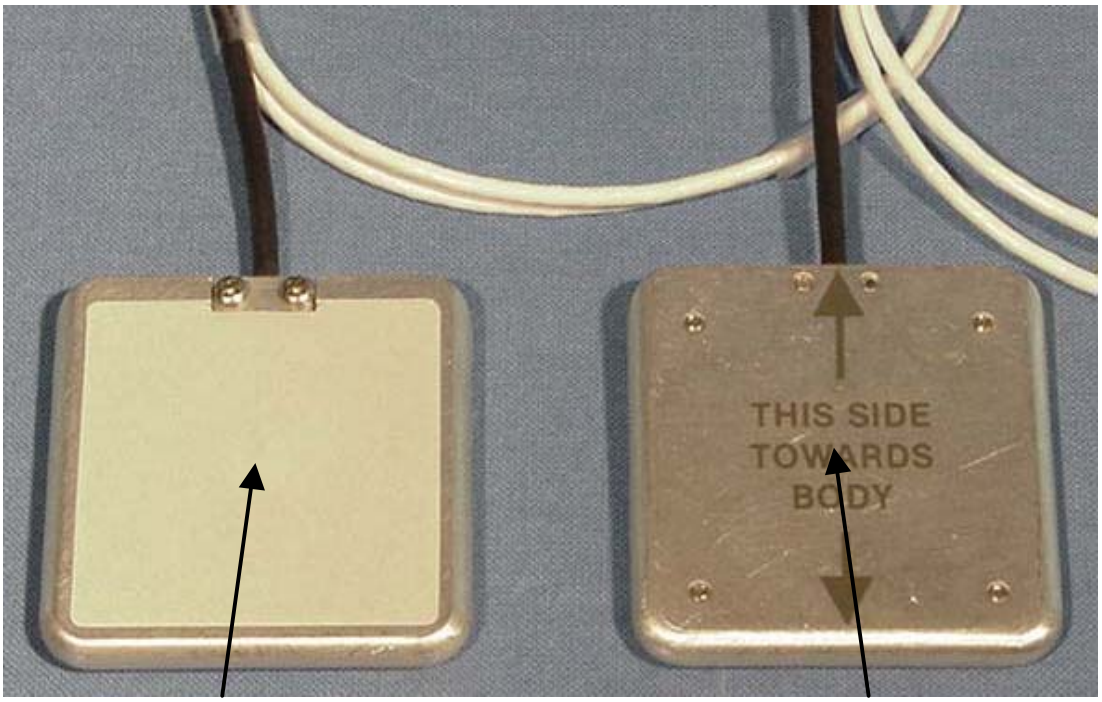


Inside Back of Vest - Splitter in Vest Pouch

EUT PHOTOGRAPHS

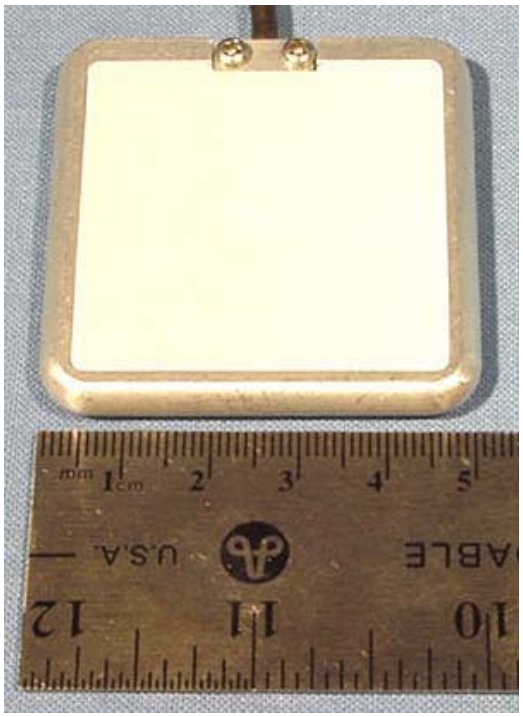


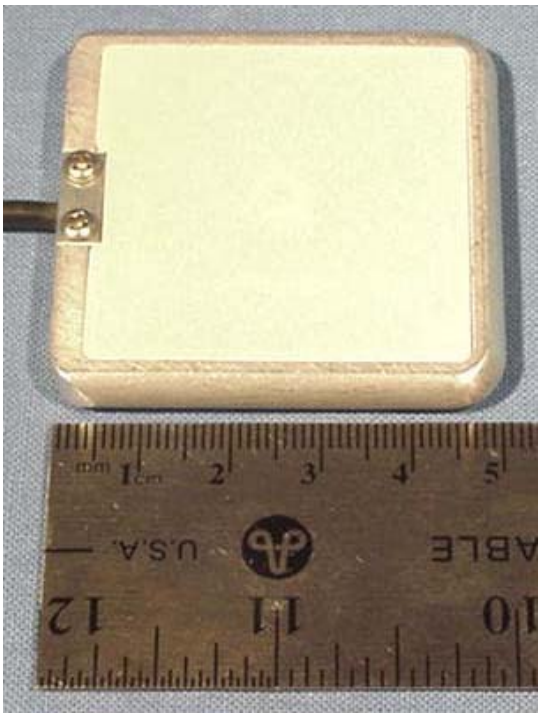
EUT: Transmitter, Splitter, & Dual Patch Antenna



Radiating Side **Dual Patch Antenna** **Non-Radiating Side**

EUT PHOTOGRAPHS

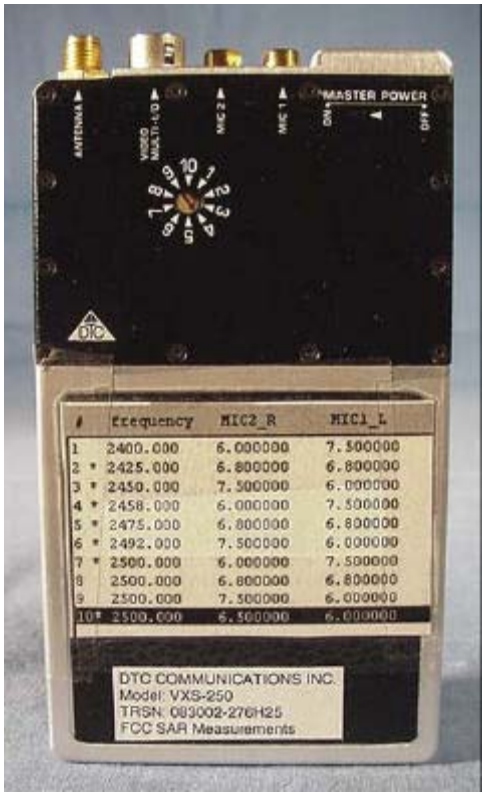




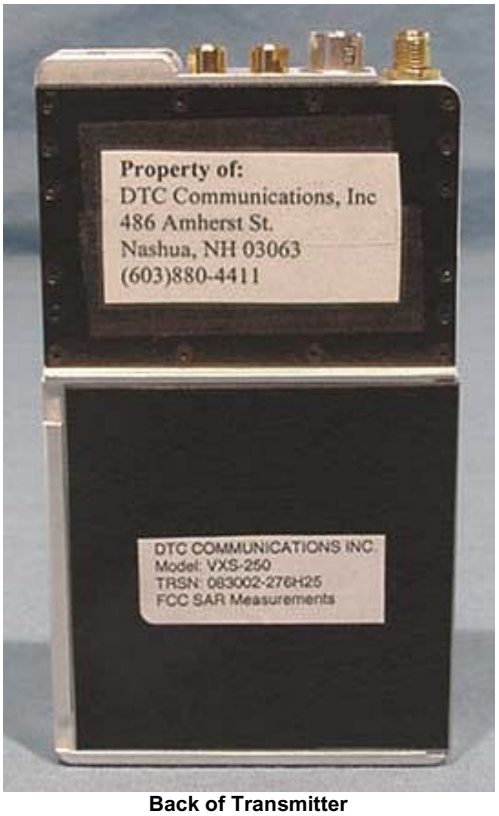
Splitter Front Side

Splitter Back Side

EUT PHOTOGRAPHS



Front of Transmitter



Back of Transmitter

Back of Transmitter with Lithium Batteries