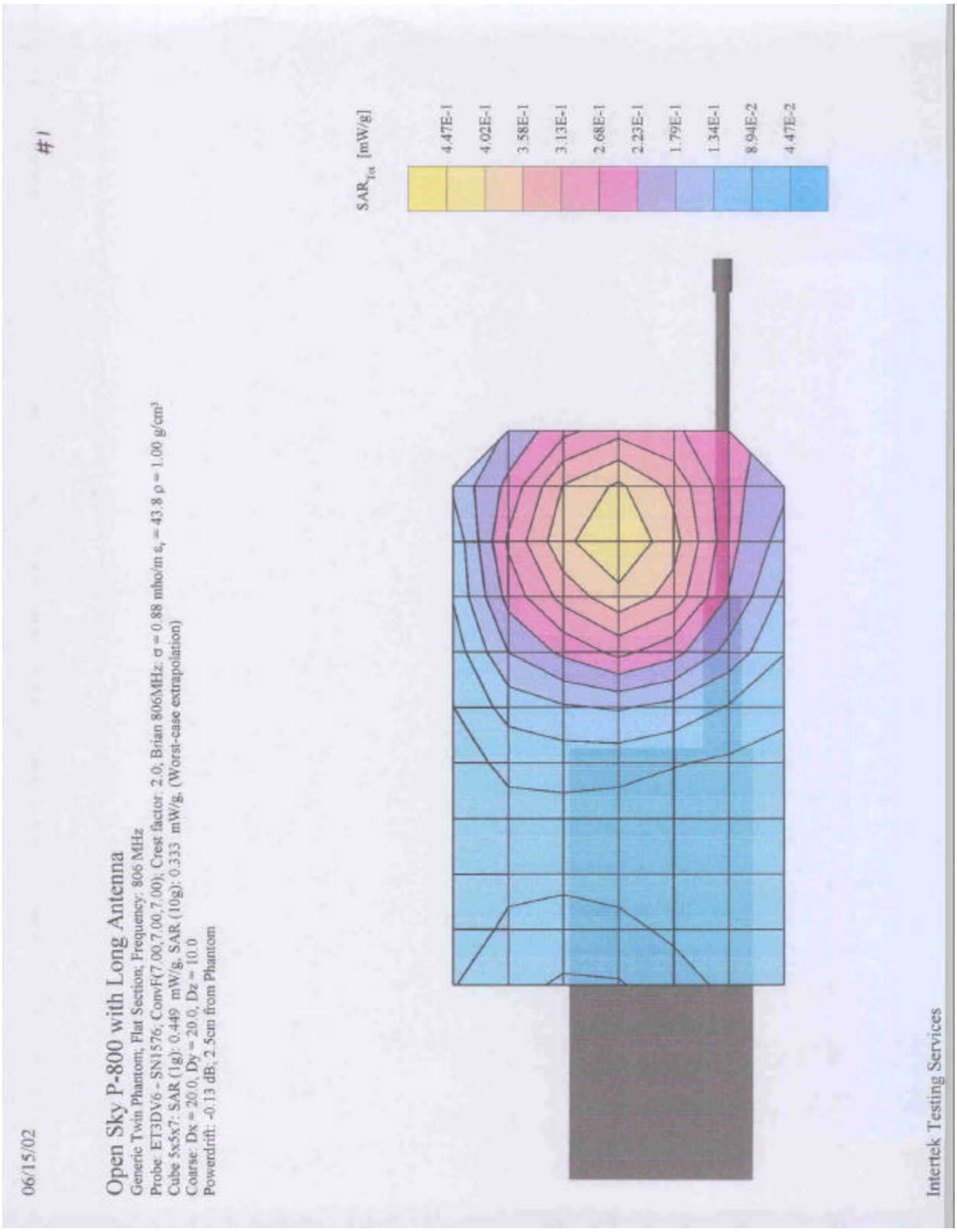
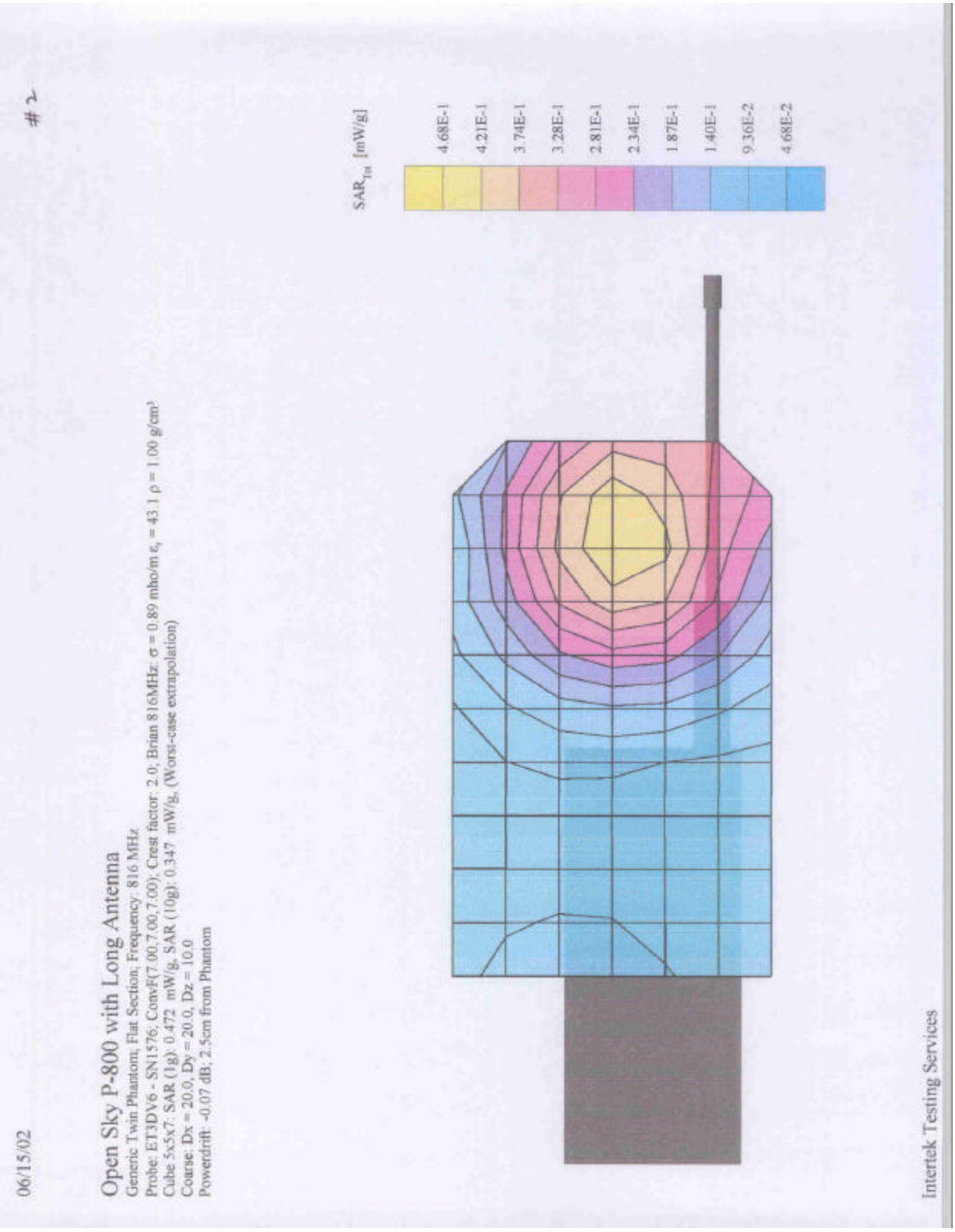
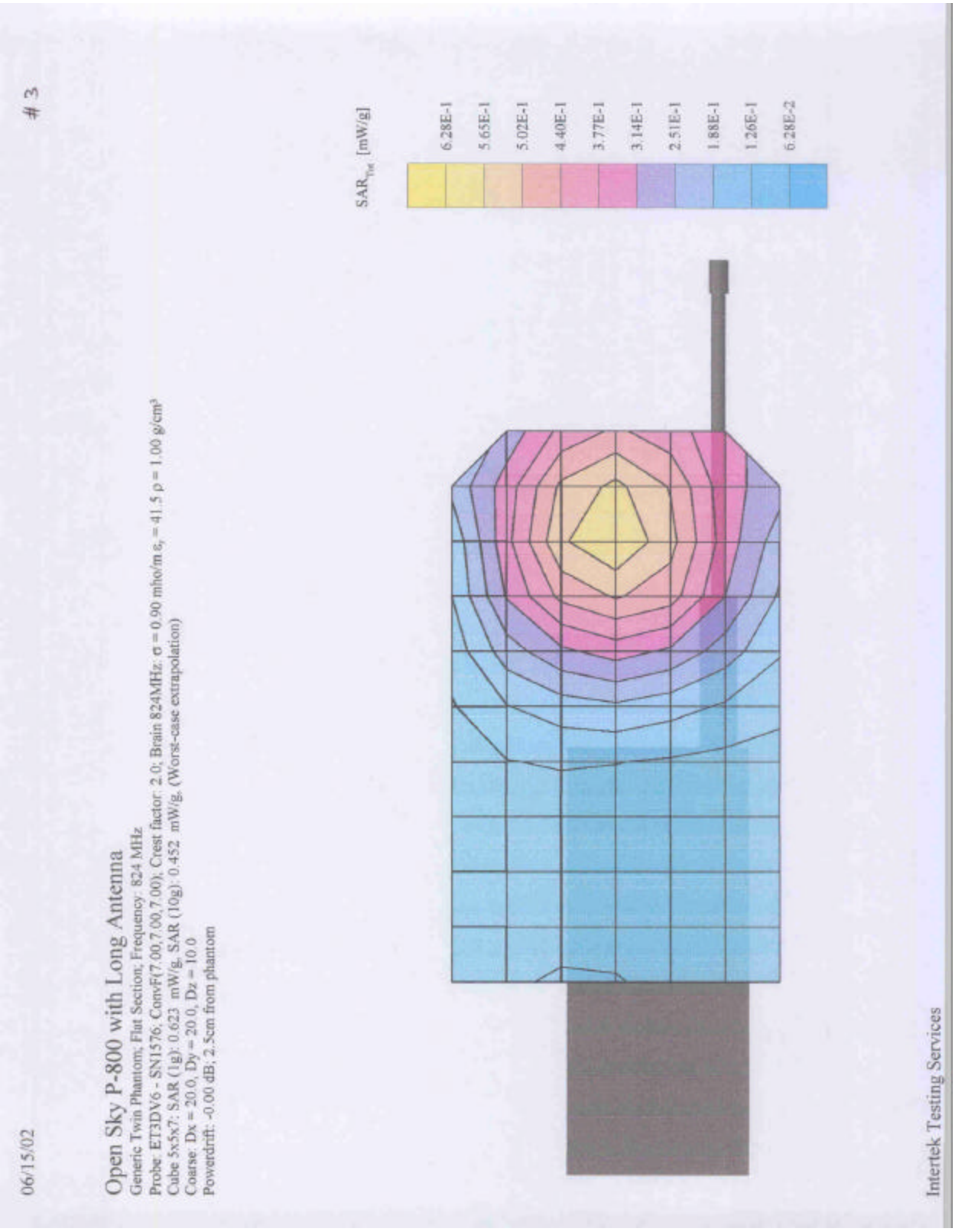
APPENDIX A - SAR Evaluation Data

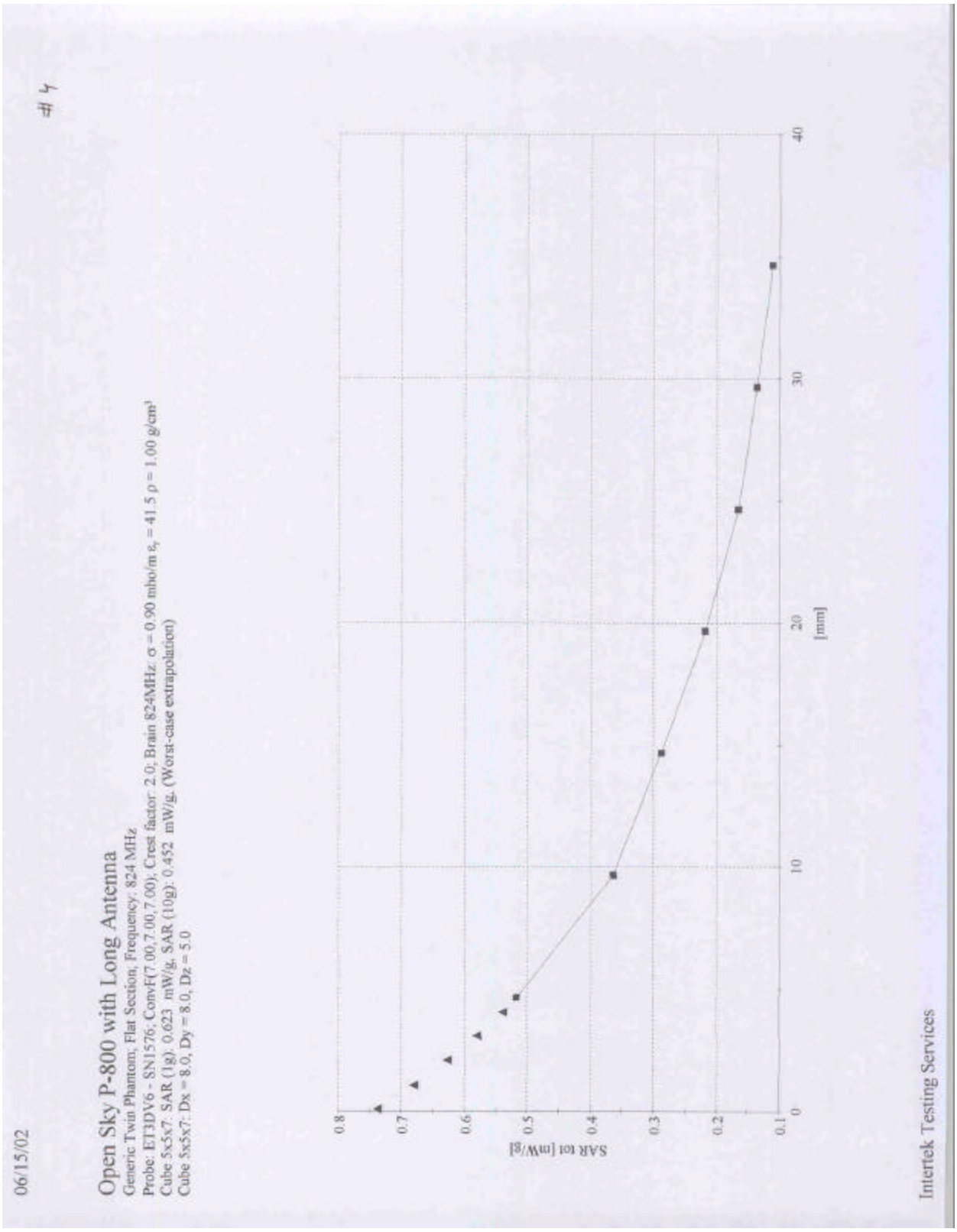
Please note that the graphical visualization of the phone position onto the SAR distribution gives only limited information on the current distribution of the device, since the curvature of the head results in graphical distortion. Full information can only be obtained either by H-field scans in free space or SAR evaluation with a flat phantom.

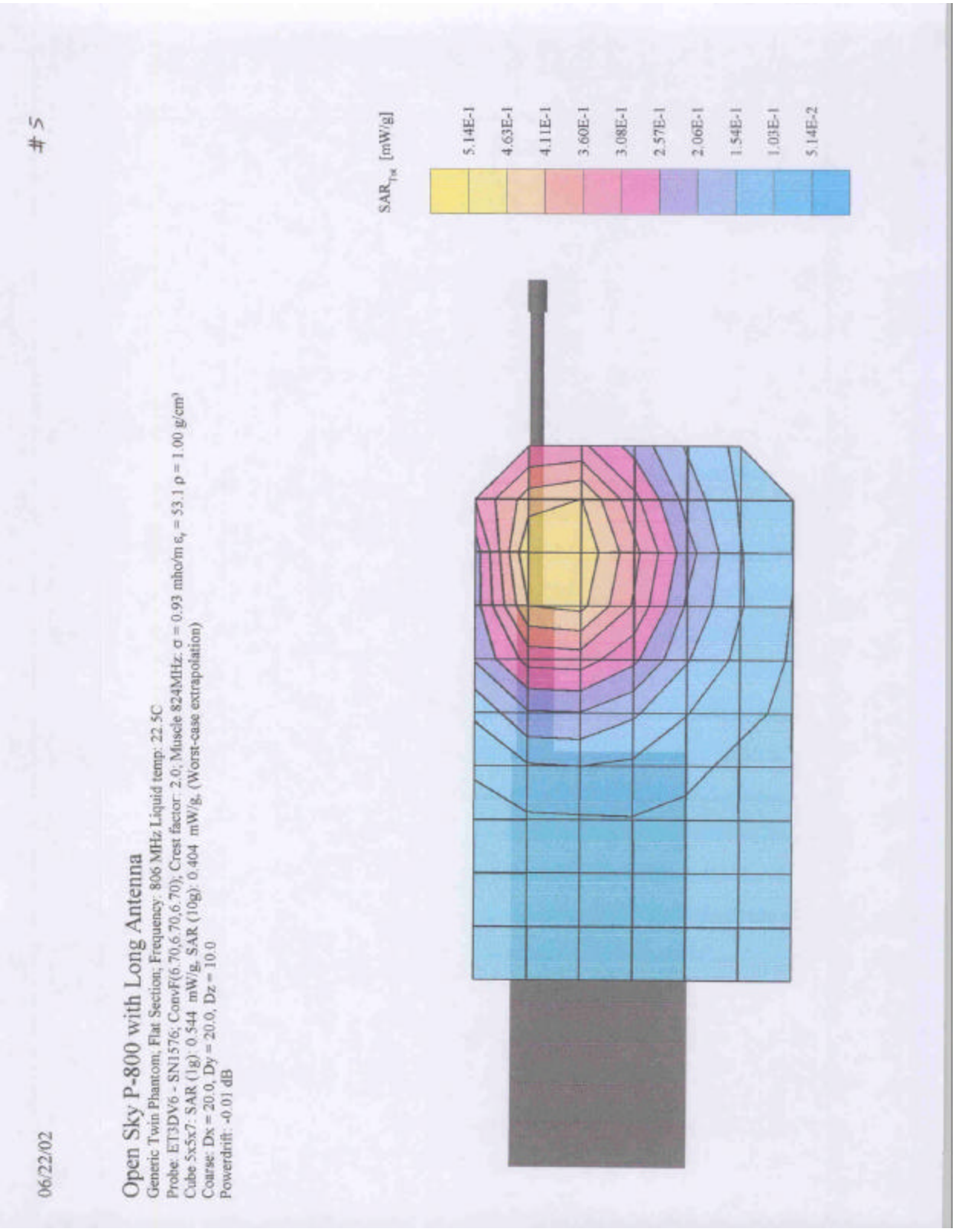
Powerdrift is the measurement of power drift of the device over one complete SAR scan.


#1
SAR_{1g} [mW/g]
4.47E-1
4.02E-1
3.58E-1
3.13E-1
2.68E-1
2.23E-1
1.79E-1
1.34E-1
8.94E-2
4.47E-2
Open Sky P-800 with Long Antenna
Generic Twin Phantom; Flat Section; Frequency: 806 MHz
Probe: ET3DV6 - SN1576; ConvF(7.00,7.00,7.00); Crest factor: 2.0; Brian 806MHz: σ = 0.88 mho/m ε_r = 43.8 ρ = 1.00 g/cm³
Cube 5x5x7: SAR (1g): 0.449 mW/g, SAR (10g): 0.333 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.13 dB; 2.5cm from Phantom
06/15/02
Intertek Testing Services


#2
SAR_{1g} [mW/g]
4.68E-1
4.21E-1
3.74E-1
3.28E-1
2.81E-1
2.34E-1
1.87E-1
1.40E-1
9.36E-2
4.68E-2
Open Sky P-800 with Long Antenna
Generic Twin Phantom; Flat Section; Frequency: 816 MHz
Probe: ET3DV6 - SN1576; ConvF(7.00,7.00,7.00); Crest factor: 2.0; Brian 816MHz: σ = 0.89 mho/m εr = 43.1 ρ = 1.00 g/cm³
Cube 5x5x7: SAR (1g): 0.472 mW/g, SAR (10g): 0.347 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.07 dB; 2.5cm from Phantom
06/15/02
Intertek Testing Services

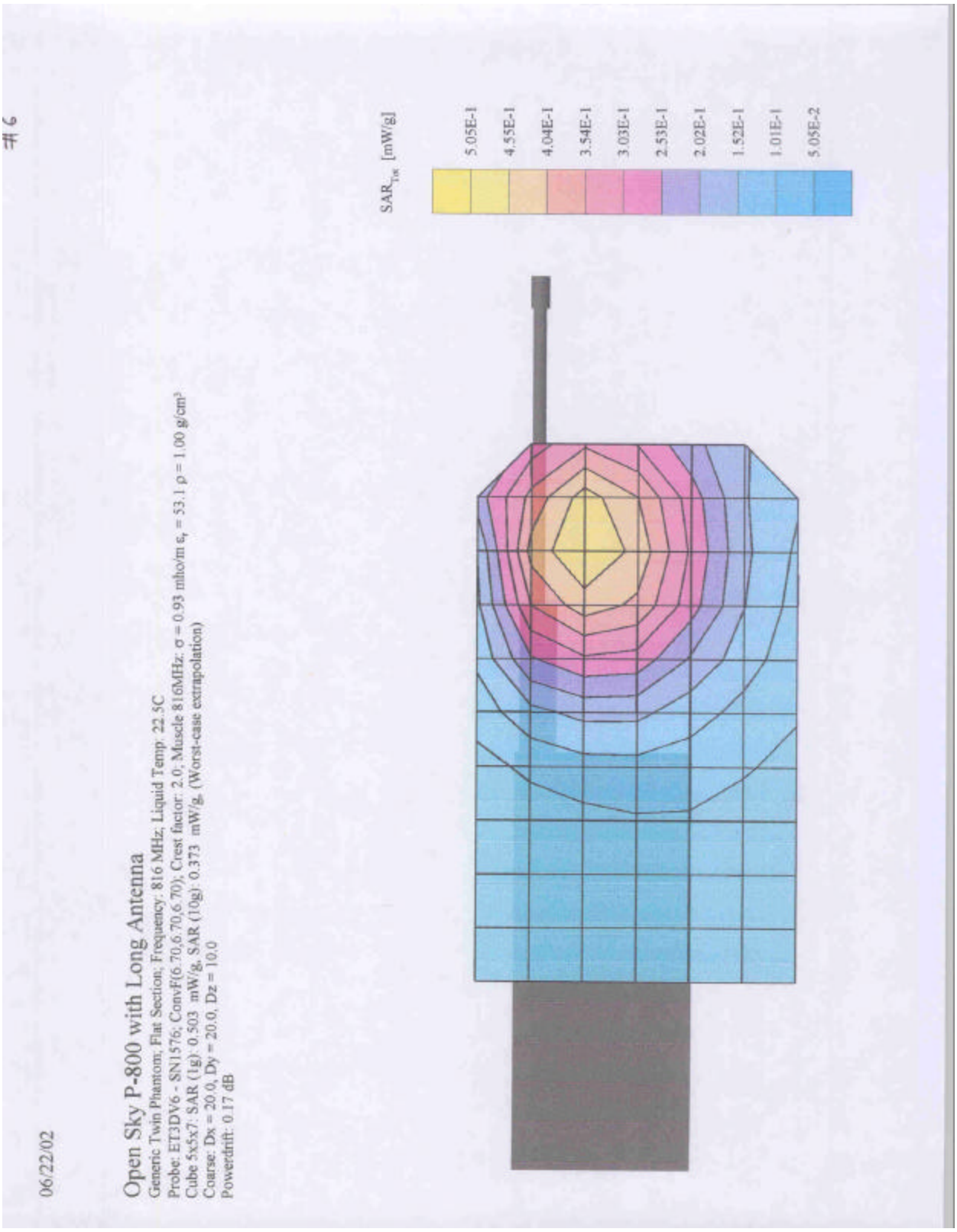

#3
SAR_{tot} [mW/g]
6.28E-1
5.65E-1
5.02E-1
4.40E-1
3.77E-1
3.14E-1
2.51E-1
1.88E-1
1.26E-1
6.28E-2
Open Sky P-800 with Long Antenna
Generic Twin Phantom; Flat Section; Frequency: 824 MHz
Probe: ET3DV6 - SN1576; ConvF(7.00,7.00,7.00); Crest factor: 2.0; Brain 824MHz: σ = 0.90 mho/m ε_r = 41.5 ρ = 1.00 g/cm³
Cube 5x5x7: SAR (1g): 0.623 mW/g, SAR (10g): 0.452 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.00 dB; 2.5cm from phantom
06/15/02
Intertek Testing Services


#4
06/15/02
Open Sky P-800 with Long Antenna
Generic Twin Phantom; Flat Section; Frequency: 824 MHz
Probe: ET3DV6 - SN1576; ConvF(7.00,7.00,7.00); Crest factor: 2.0; Brain 824MHz σ = 0.90 mho/m ε_r = 41.5 ρ = 1.00 g/cm³
Cube 5x5x7: SAR (1g): 0.623 mW/g, SAR (10g): 0.452 mW/g, (Worst-case extrapolation)
Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0
SAR for [mW/g]
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
10
20
30
40
[mm]
Intertek Testing Services


#5
SAR$_{TM}$ [mW/g]
5.14E-1
4.63E-1
4.11E-1
3.60E-1
3.08E-1
2.57E-1
2.06E-1
1.54E-1
1.03E-1
5.14E-2
Open Sky P-800 with Long Antenna
Generic Twin Phantom; Flat Section; Frequency: 806 MHz Liquid temp: 22.5C
Probe: ET3DV6 - SN1576; ConvF(6.70,6.70,6.70); Crest factor: 2.0; Muscle 824MHz: σ = 0.93 mho/m ε$_r$ = 53.1 ρ = 1.00 g/cm^3
Cube 5x5x7: SAR (1g): 0.544 mW/g, SAR (10g): 0.404 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.01 dB
06/22/02

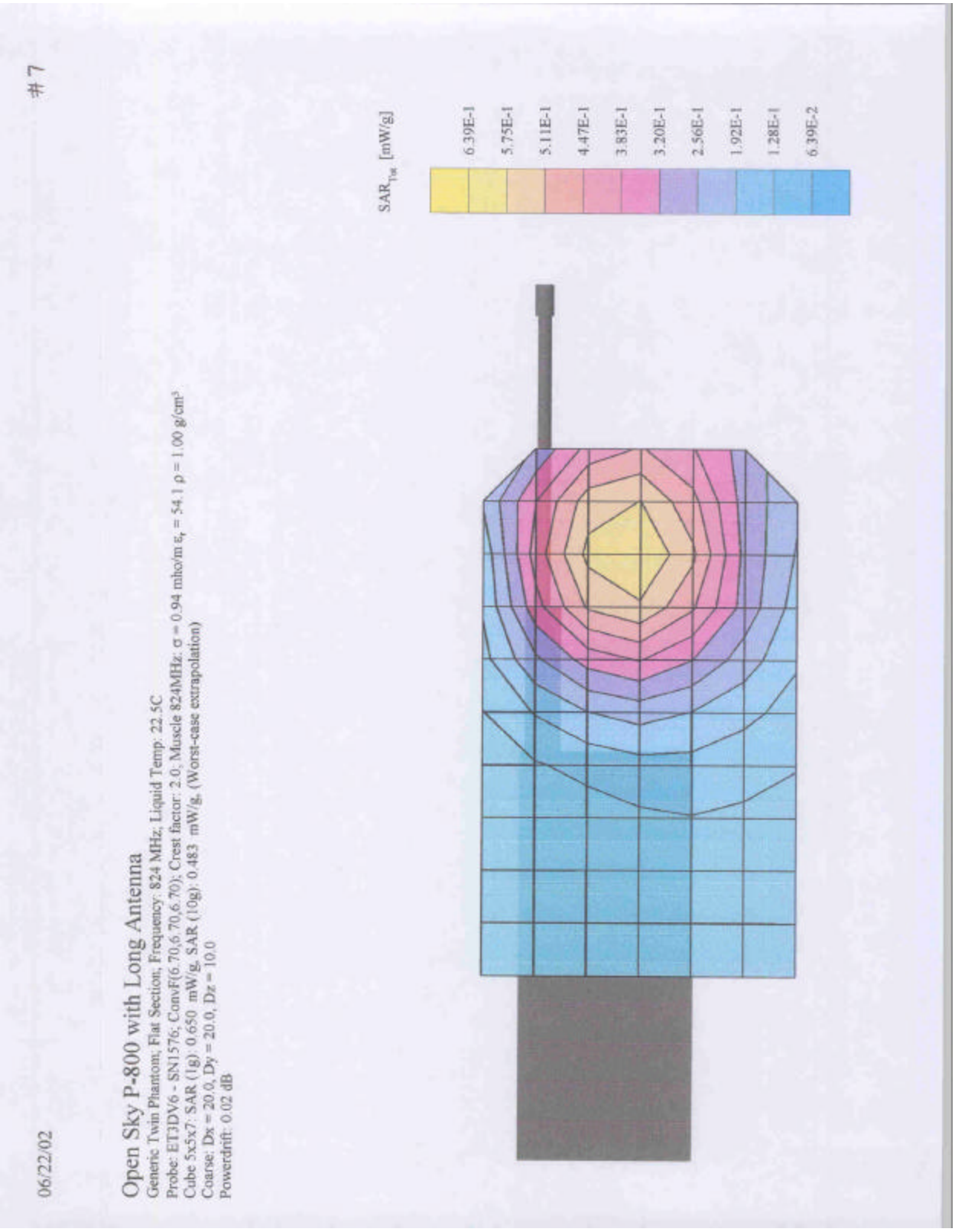
M/A-COM, Inc., Model No: P800
FCC ID: BV8P800

Date of Test: June 15, 2002

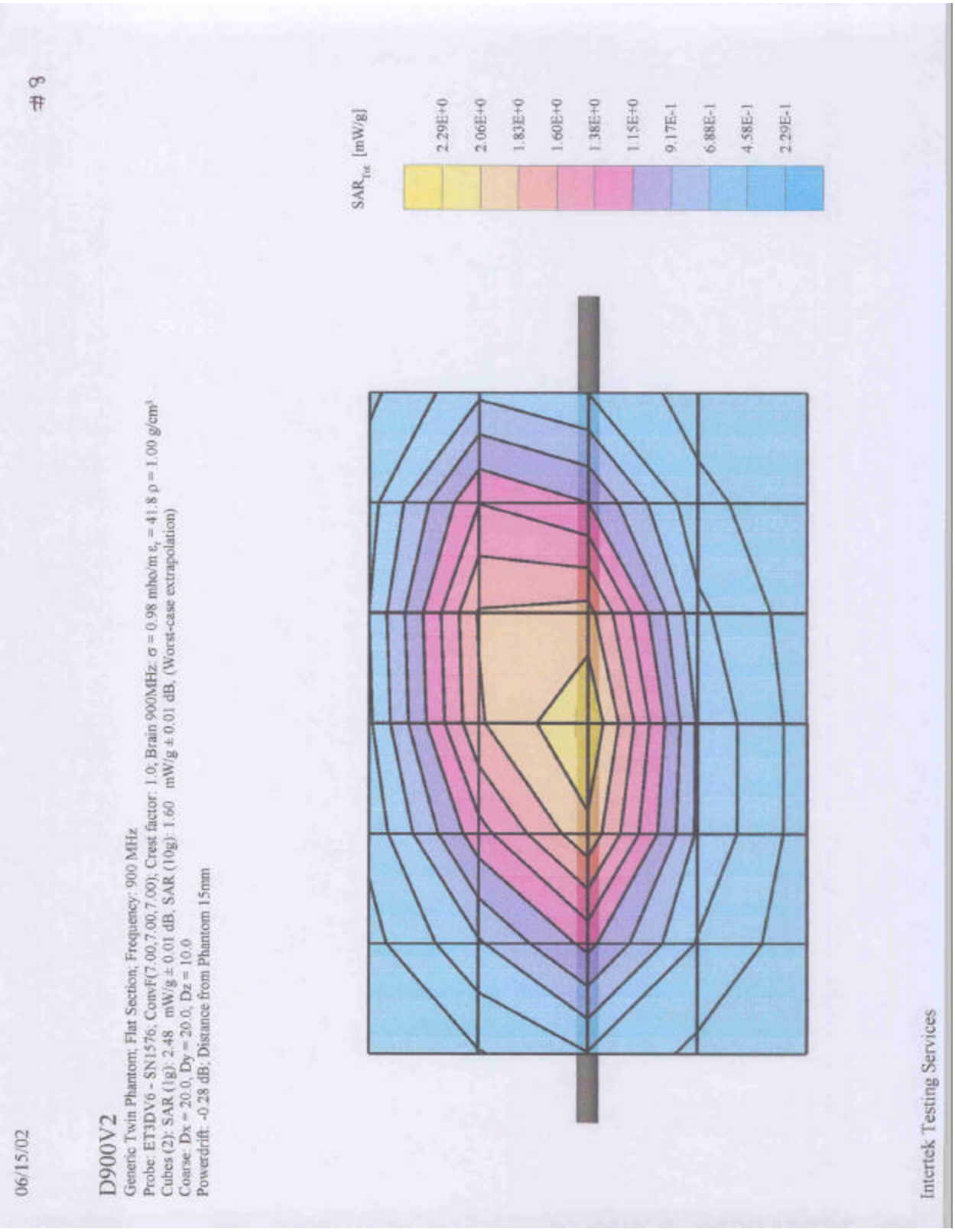


M/A-COM, Inc., Model No: P800
FCC ID: BV8P800

Date of Test: June 15, 2002



M/A-COM, Inc., Model No: P800 Date of Test: June 15, 2002
FCC ID: BV8P800



APPENDIX B - E-Field Probe Calibration Data

See attached.

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:	**1576**
Place of Calibration:	**Zurich**
Date of Calibration:	**February 27, 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:

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland, Telephone +41 1 245 97 00, Fax +41 1 245 97 79

Probe ET3DV6

SN:1576

Manufactured:	April 6, 2001
Last calibration:	April 20, 2001
Recalibrated:	February 27, 2002

Calibrated for System DASY3

ET3DV6 SN:1576 February 27, 2002

DASY3 - Parameters of Probe: ET3DV6 SN:1576

Sensitivity in Free Space

NormX	**1.77**	$\mu V/(V/m)^2$	DCP X	**98** mV
NormY	**1.81**	$\mu V/(V/m)^2$	DCP Y	**98** mV
NormZ	**1.76**	$\mu V/(V/m)^2$	DCP Z	**98** 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	**7.0** ± 9.5% (k=2)	Boundary effect:	
	ConvF Y	**7.0** ± 9.5% (k=2)	Alpha	**0.30**
	ConvF Z	**7.0** ± 9.5% (k=2)	Depth	**2.51**
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	**0.45**
	ConvF Z	**5.4** ± 9.5% (k=2)	Depth	**2.30**

Boundary Effect

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

Probe Tip to Boundary		**1 mm**	**2 mm**
SAR_{be} [%]	Without Correction Algorithm	7.6	4.3
SAR_{bc} [%]	With Correction Algorithm	0.3	0.5

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

Probe Tip to Boundary		**1 mm**	**2 mm**
SAR_{be} [%]	Without Correction Algorithm	9.7	6.6
SAR_{bc} [%]	With Correction Algorithm	0.2	0.3

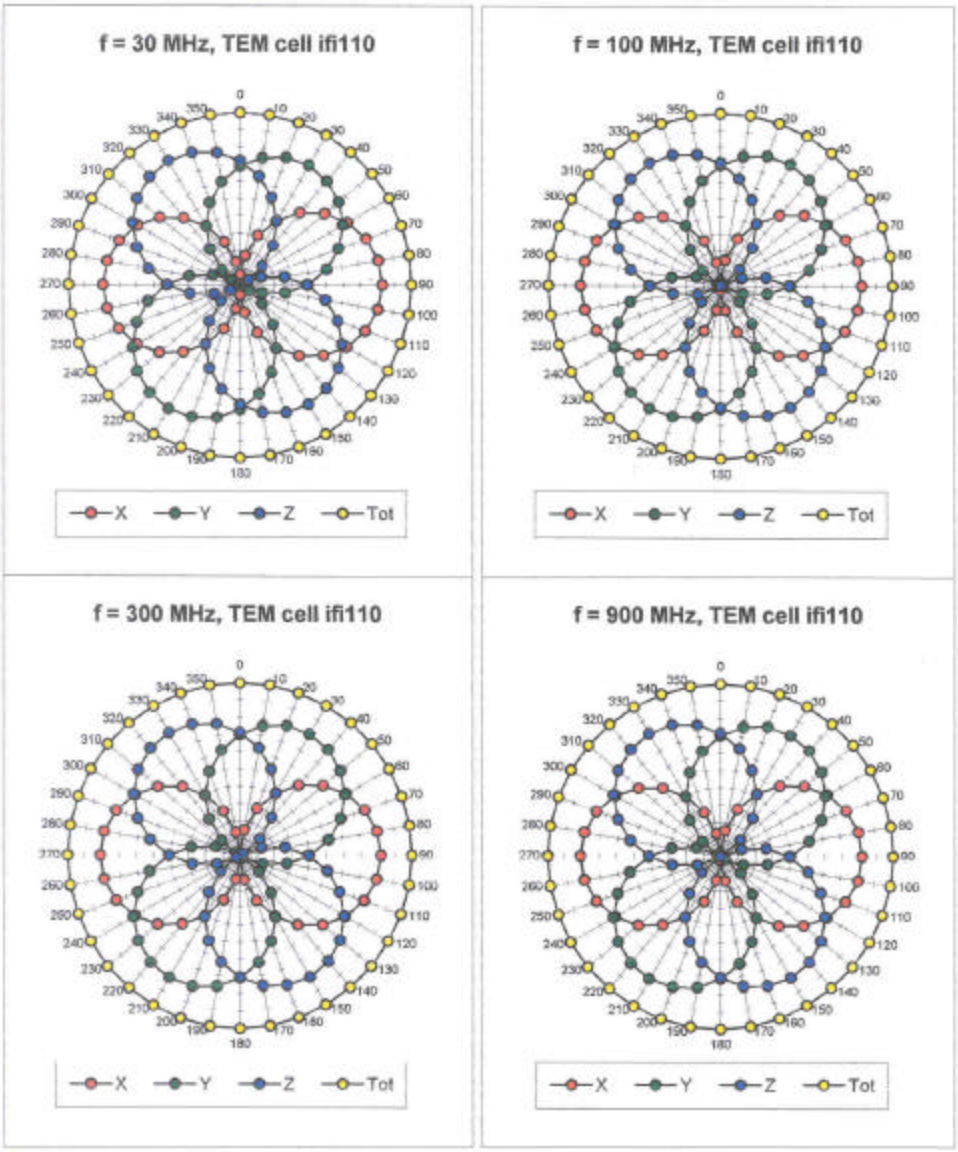
Sensor Offset

Probe Tip to Sensor Center	**2.7**	mm
Optical Surface Detection	**1.9 ± 0.2**	mm

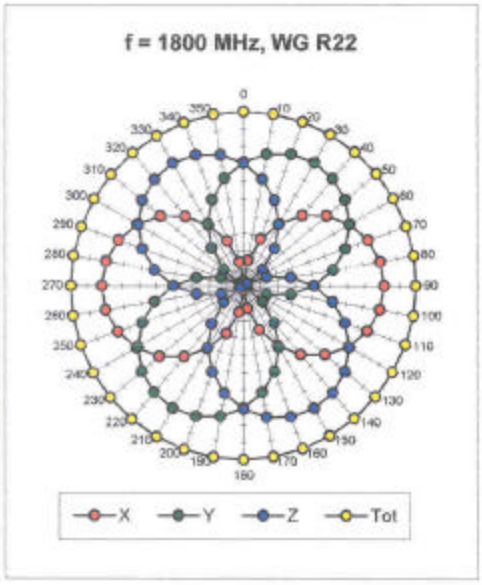
ET3DV6 SN:1576

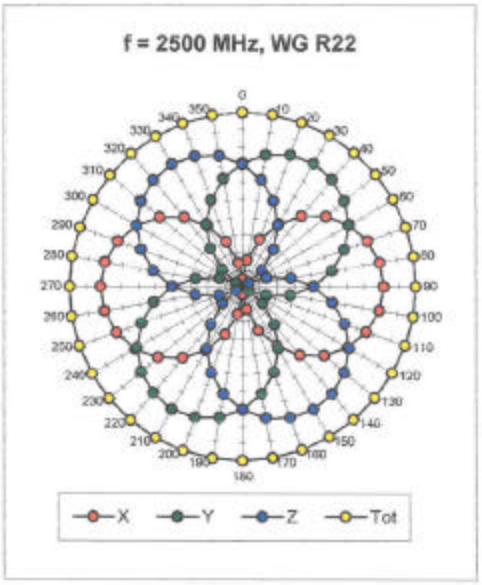
February 27, 2002

Receiving Pattern (ϕ), θ = 0°

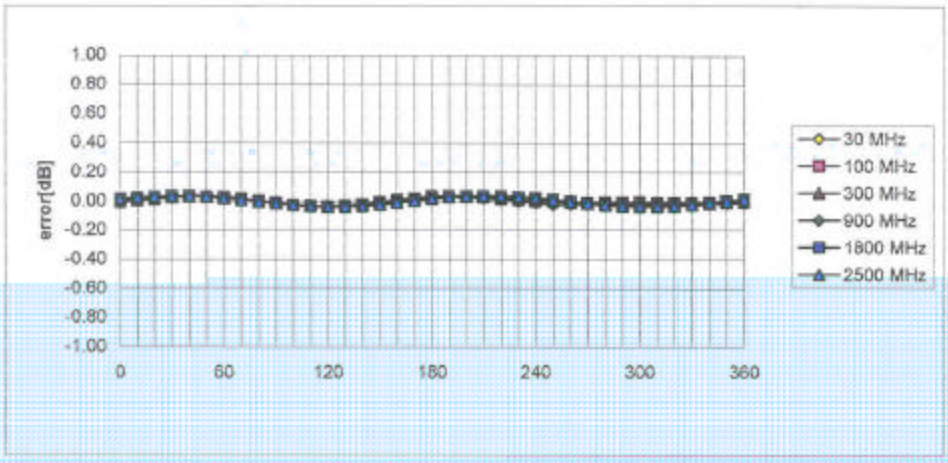


ET3DV6 SN:1576 February 27, 2002





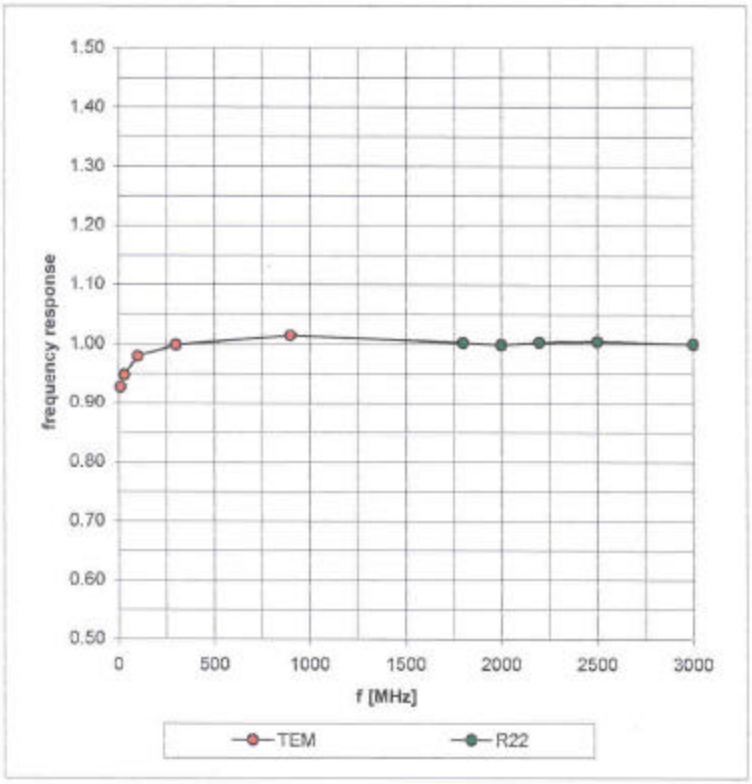
Isotropy Error (ϕ), θ = 0°



ET3DV6 SN:1576 February 27, 2002

Frequency Response of E-Field

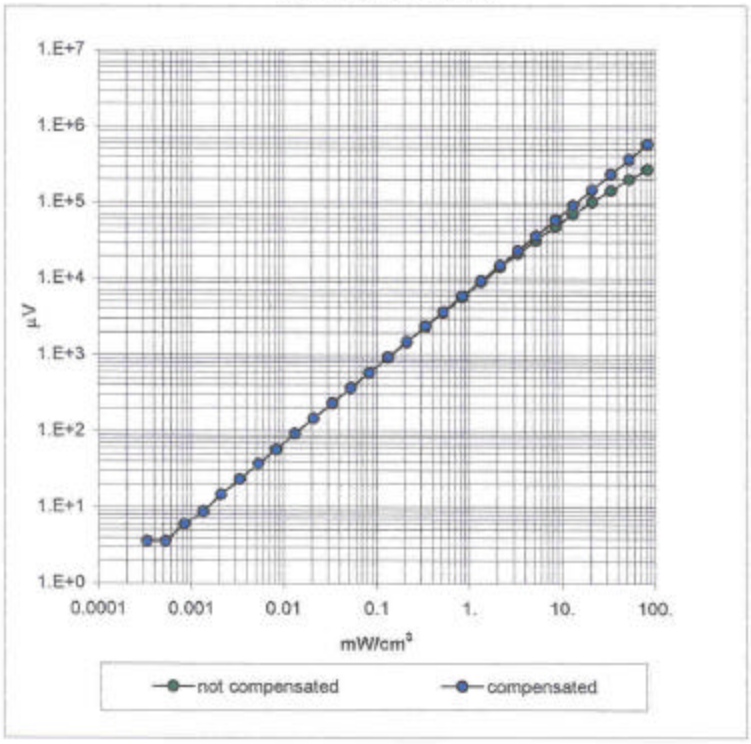
(TEM-Cell:ifi110, Waveguide R22)

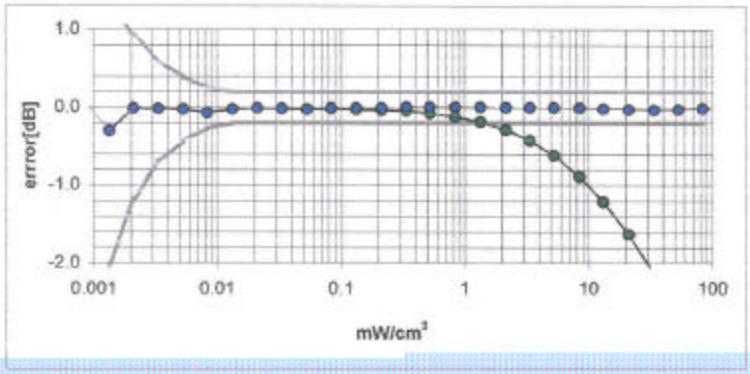


ET3DV6 SN:1576 February 27, 2002

Dynamic Range f(SAR_{brain})

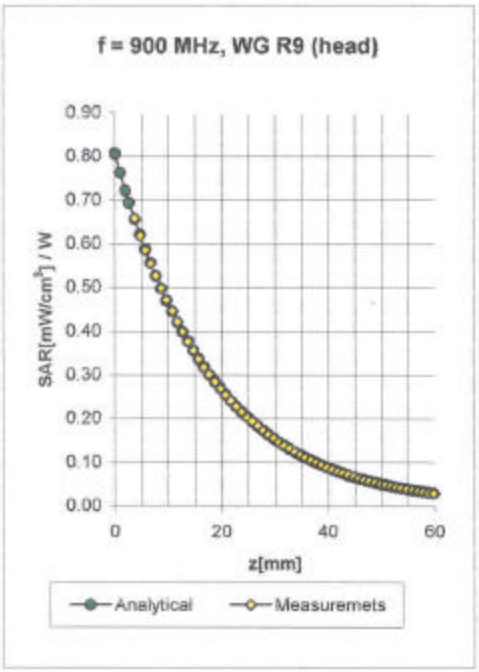
(Waveguide R22)

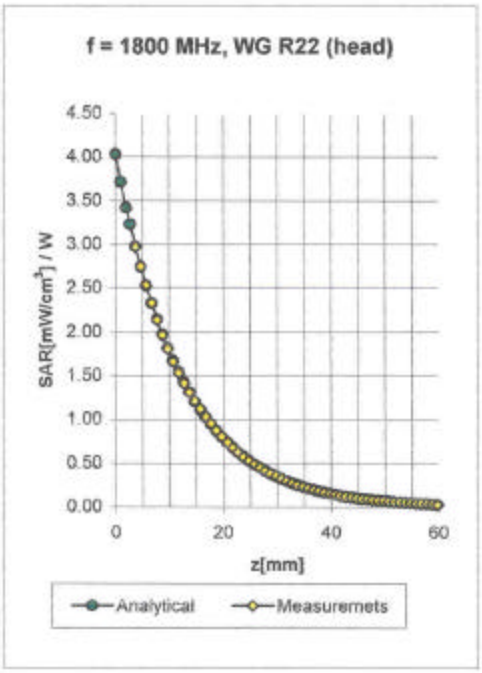




ET3DV6 SN:1576 February 27, 2002

Conversion Factor Assessment



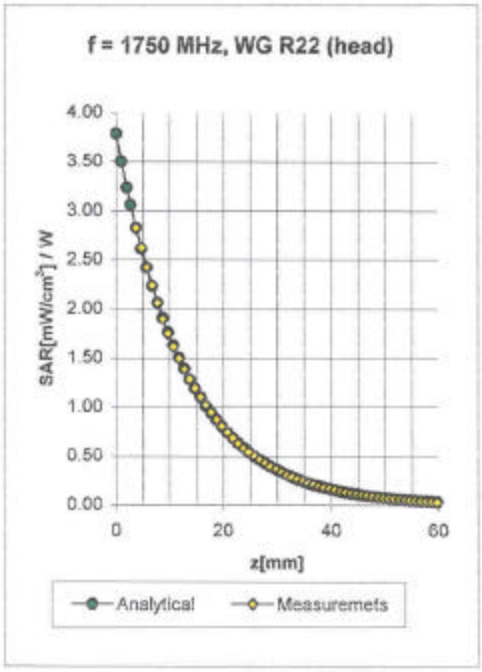


Head	900 MHz		ε_r = 41.5 ± 5%	σ = 0.97 ± 5% mho/m	
Head	835 MHz		ε_r = 41.5 ± 5%	σ = 0.90 ± 5% mho/m	
	ConvF X	7.0 ± 9.5% (k=2)		Boundary effect:	
	ConvF Y	7.0 ± 9.5% (k=2)		Alpha	0.30
	ConvF Z	7.0 ± 9.5% (k=2)		Depth	2.51

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	0.45
	ConvF Z	5.4 ± 9.5% (k=2)		Depth	2.30

ET3DV6 SN:1576 February 27, 2002

Conversion Factor Assessment



Head 1750 MHz ε_r = 40.0 ± 5% σ = 1.40 ± 5% mho/m

ConvF X	**5.4** ± 8.9% (k=2)	Boundary effect:	
ConvF Y	**5.4** ± 8.9% (k=2)	Alpha	**0.45**
ConvF Z	**5.4** ± 8.9% (k=2)	Depth	**2.27**

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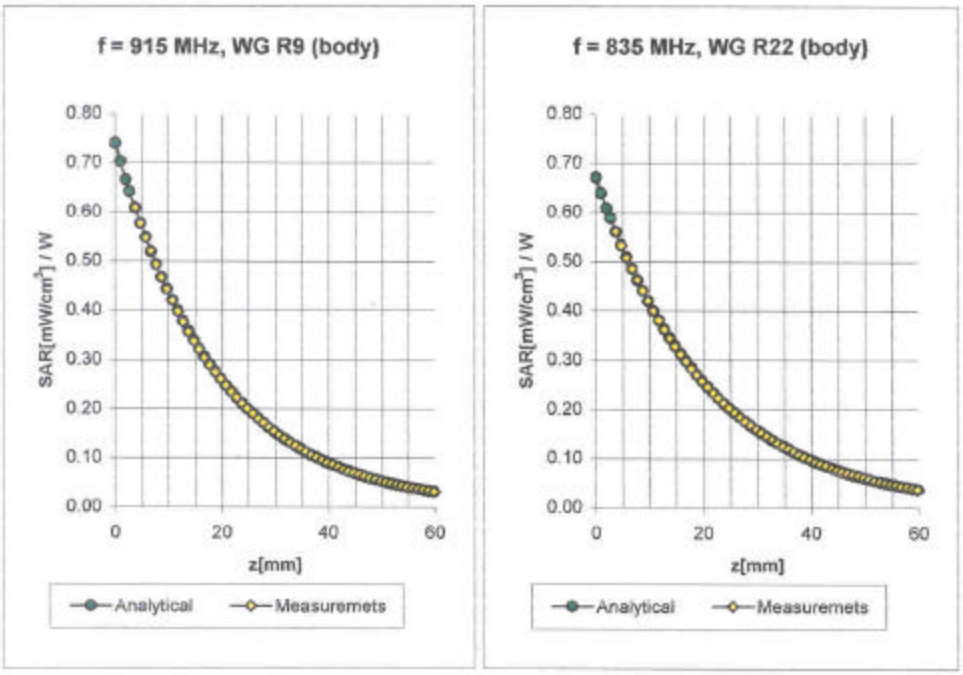
Conversion Factor Assessment



Body **915 MHz** **ε_r = 55.0 ± 5%** **σ = 1.06 ± 5% mho/m**

ConvF X	**6.7** ± 8.9% (k=2)	Boundary effect:	
ConvF Y	**6.7** ± 8.9% (k=2)	Alpha	**0.45**
ConvF Z	**6.7** ± 8.9% (k=2)	Depth	**2.01**

Body **835 MHz** **ε_r = 55.2 ± 5%** **σ = 0.97 ± 5% mho/m**

ConvF X	**6.7** ± 8.9% (k=2)	Boundary effect:	
ConvF Y	**6.7** ± 8.9% (k=2)	Alpha	**0.34**
ConvF Z	**6.7** ± 8.9% (k=2)	Depth	**2.37**

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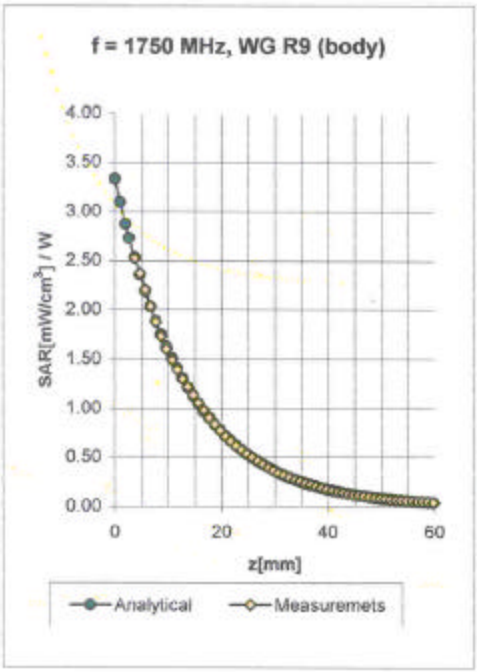
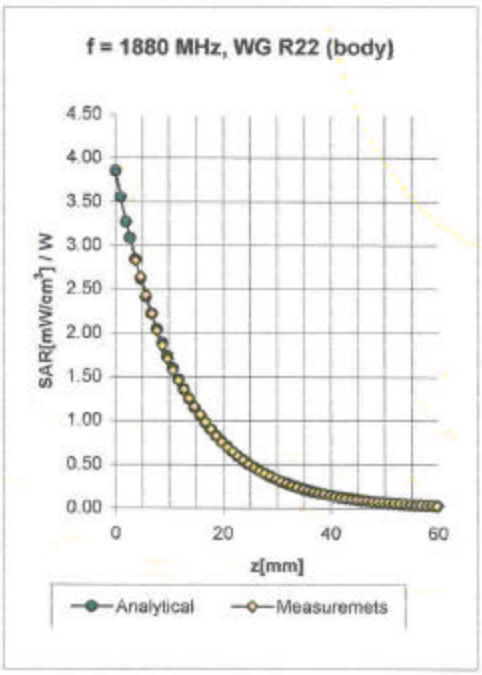
ET3DV6 SN:1576 **February 27, 2002**

Conversion Factor Assessment





Body **1750 MHz** ε_r = 53.3 ± 5% σ = 1.52 ± 5% mho/m

ConvF X	5.1 ± 8.9% (k=2)	Boundary effect:	
ConvF Y	5.1 ± 8.9% (k=2)	Alpha	0.51
ConvF Z	5.1 ± 8.9% (k=2)	Depth	2.31

Body **1880 MHz** ε_r = 53.3 ± 5% σ = 1.52 ± 5% mho/m

ConvF X	4.8 ± 8.9% (k=2)	Boundary effect:	
ConvF Y	4.8 ± 8.9% (k=2)	Alpha	0.63
ConvF Z	4.8 ± 8.9% (k=2)	Depth	2.10

ET3DV6 SN:1576 February 27, 2002

Deviation from Isotropy in HSL

Error (θ,φ), f = 900 MHz