

APPENDIX C - PROBE CALIBRATION

Probe ET3DV6

SN:1387

Manufactured:	September 21, 1999
Last calibration:	September 22, 1999

Calibrated for System DASY3

DASY3 - Parameters of Probe: ET3DV6 SN:1387

Sensitivity in Free Space

Diode Compression

NormX	1.55 $\mu\text{V}/(\text{V}/\text{m})^2$	DCP X	98 mV
NormY	1.65 $\mu\text{V}/(\text{V}/\text{m})^2$	DCP Y	98 mV
NormZ	1.64 $\mu\text{V}/(\text{V}/\text{m})^2$	DCP Z	98 mV

Sensitivity in Tissue Simulating Liquid

Brain **450 MHz** $\epsilon_r = 48 \pm 5\%$ $s = 0.50 \pm 10\% \text{ mho/m}$

ConvF X	6.76 extrapolated	Boundary effect:	
ConvF Y	6.76 extrapolated	Alpha	0.30
ConvF Z	6.76 extrapolated	Depth	2.52

Brain **900 MHz** $\epsilon_r = 42.5 \pm 5\%$ $s = 0.86 \pm 10\% \text{ mho/m}$

ConvF X	6.34 $\pm 7\%$ (k=2)	Boundary effect:	
ConvF Y	6.34 $\pm 7\%$ (k=2)	Alpha	0.47
ConvF Z	6.34 $\pm 7\%$ (k=2)	Depth	2.25

Brain **1500 MHz** $\epsilon_r = 41 \pm 5\%$ $s = 1.32 \pm 10\% \text{ mho/m}$

ConvF X	5.78 interpolated	Boundary effect:	
ConvF Y	5.78 interpolated	Alpha	0.69
ConvF Z	5.78 interpolated	Depth	1.88

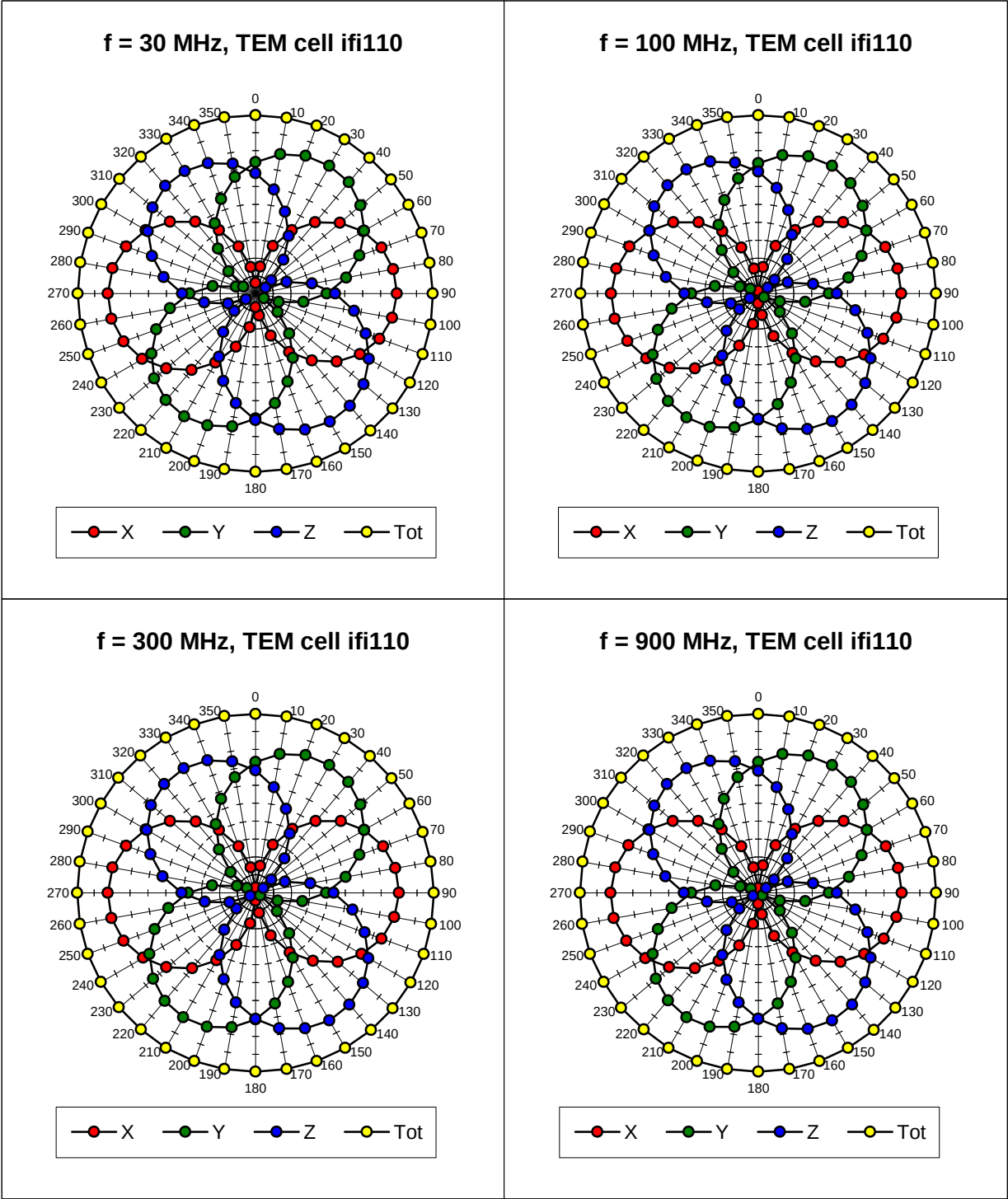
Brain **1800 MHz** $\epsilon_r = 41 \pm 5\%$ $s = 1.69 \pm 10\% \text{ mho/m}$

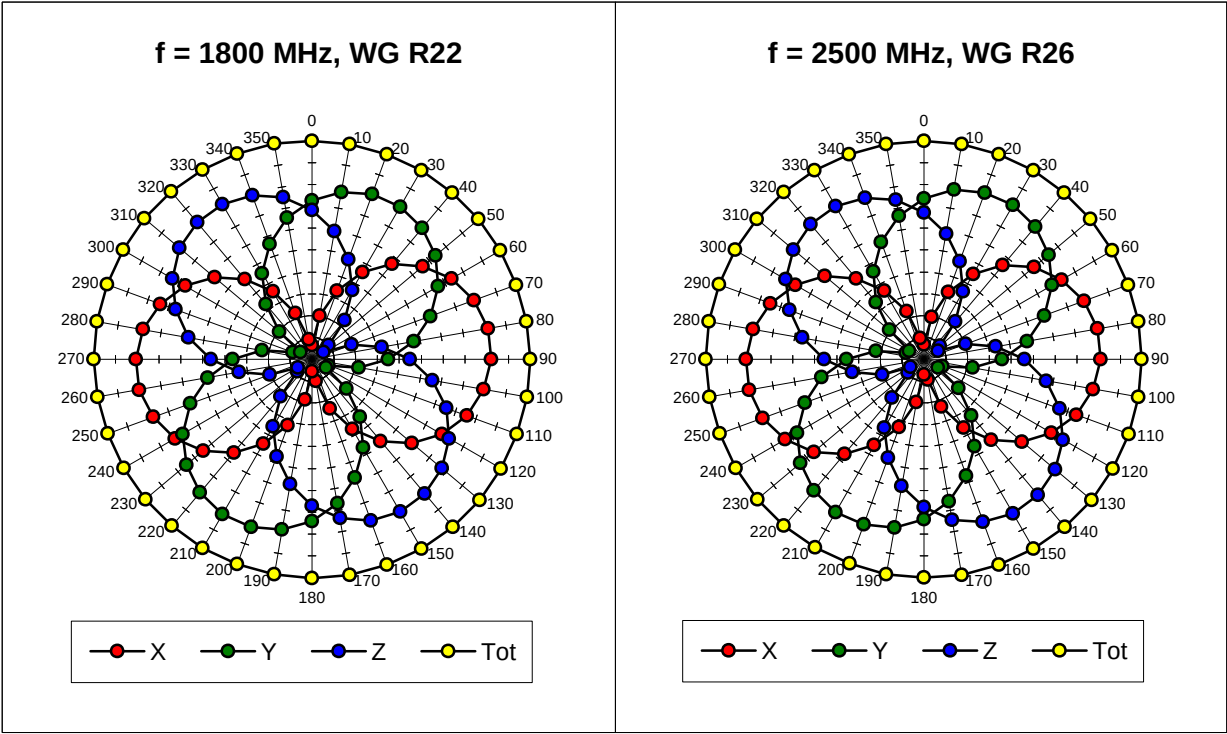
ConvF X	5.50 $\pm 7\%$ (k=2)	Boundary effect:	
ConvF Y	5.50 $\pm 7\%$ (k=2)	Alpha	0.81
ConvF Z	5.50 $\pm 7\%$ (k=2)	Depth	1.70

Sensor Offset

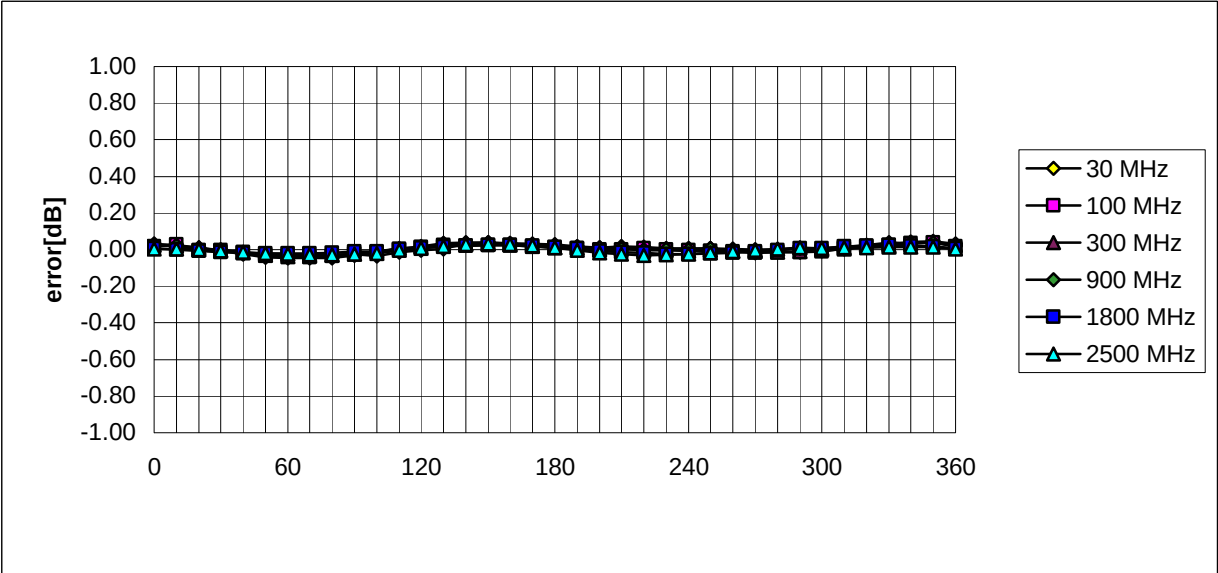
Probe Tip to Sensor Center	2.7	mm
Optical Surface Detection	1.6 $\pm$ 0.2	mm

Receiving Pattern (f) , q = 0°

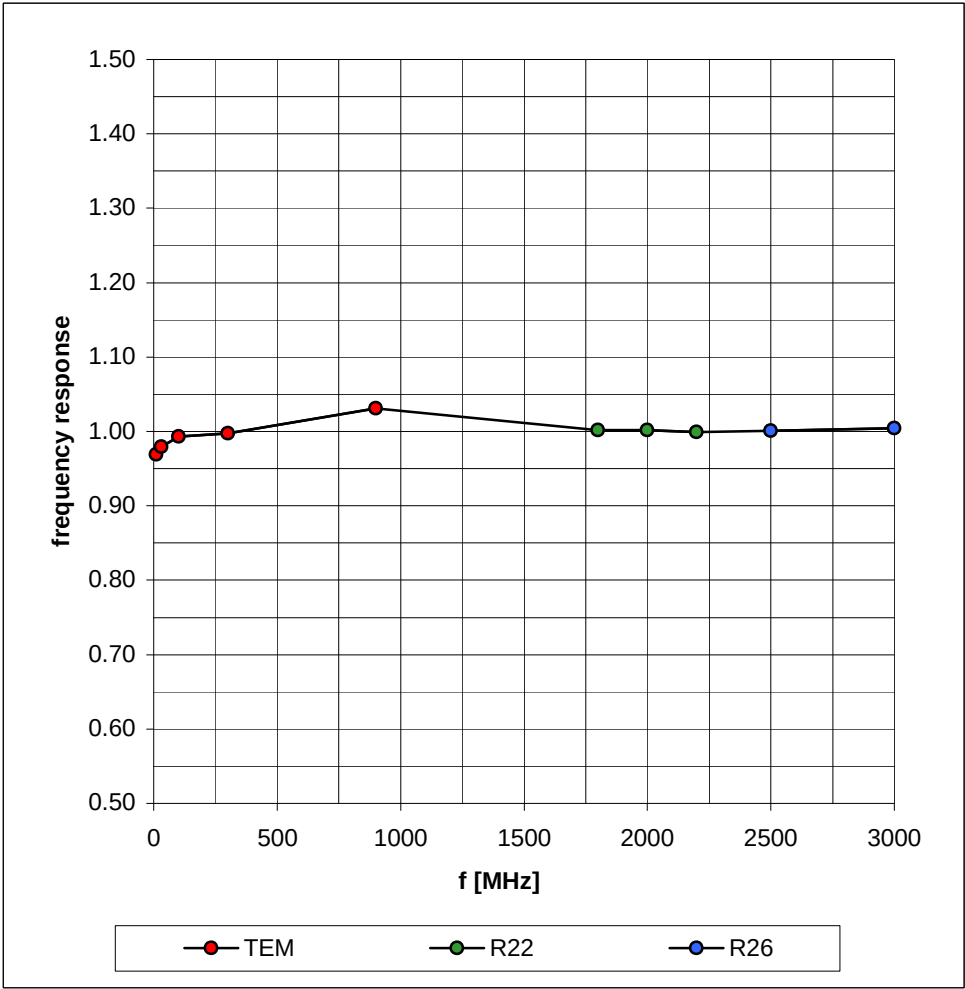




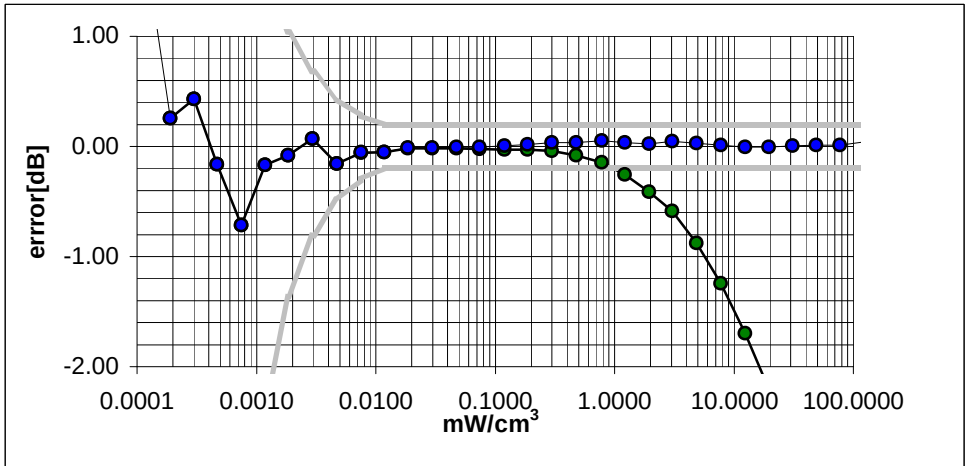
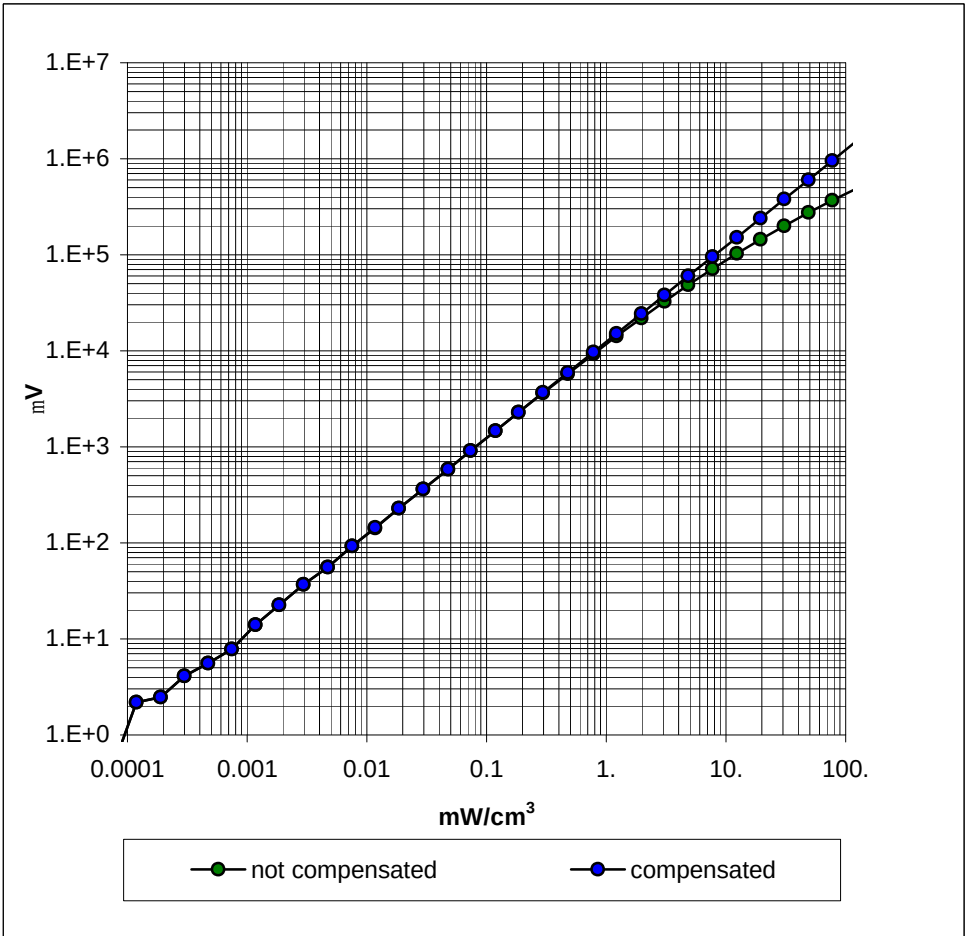
Isotropy Error (f), q = 0°



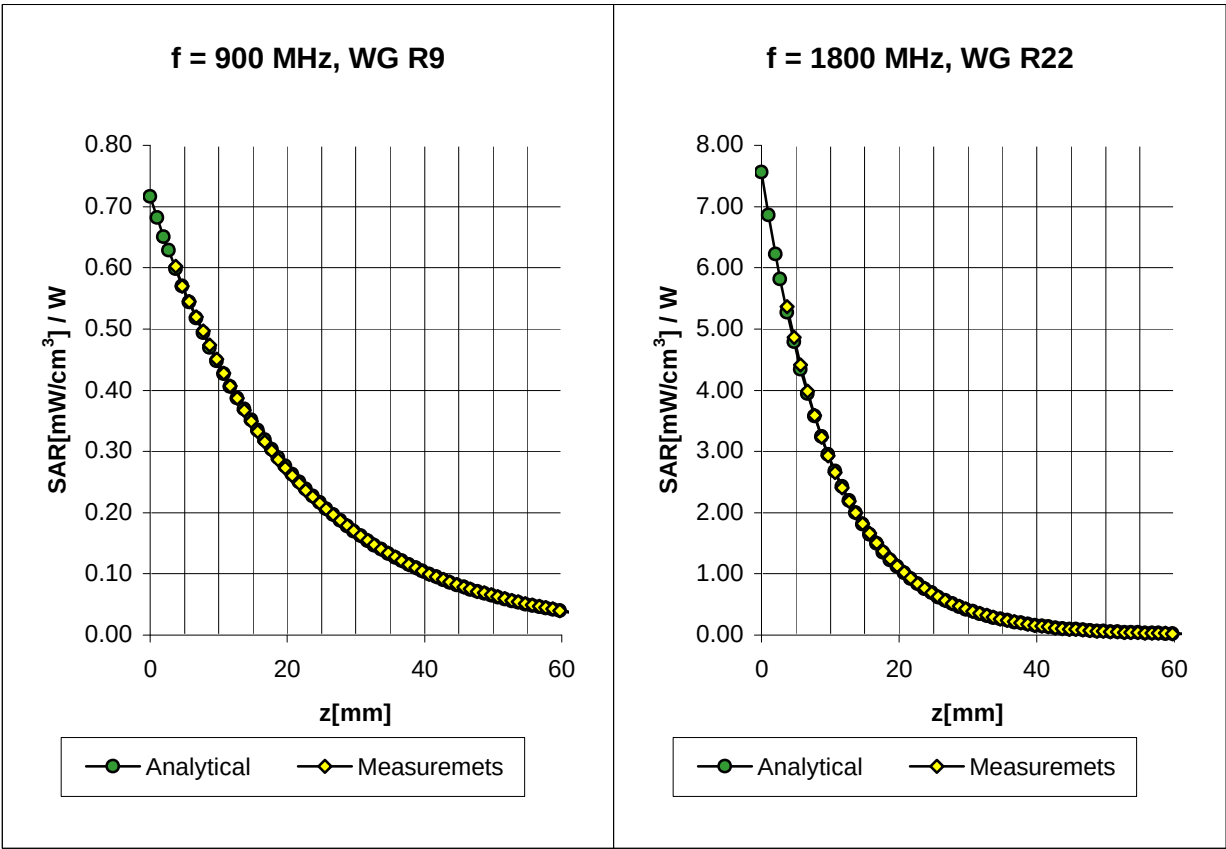
Frequency Response of E-Field
(TEM-Cell:ifi110, Waveguide R22, R26)



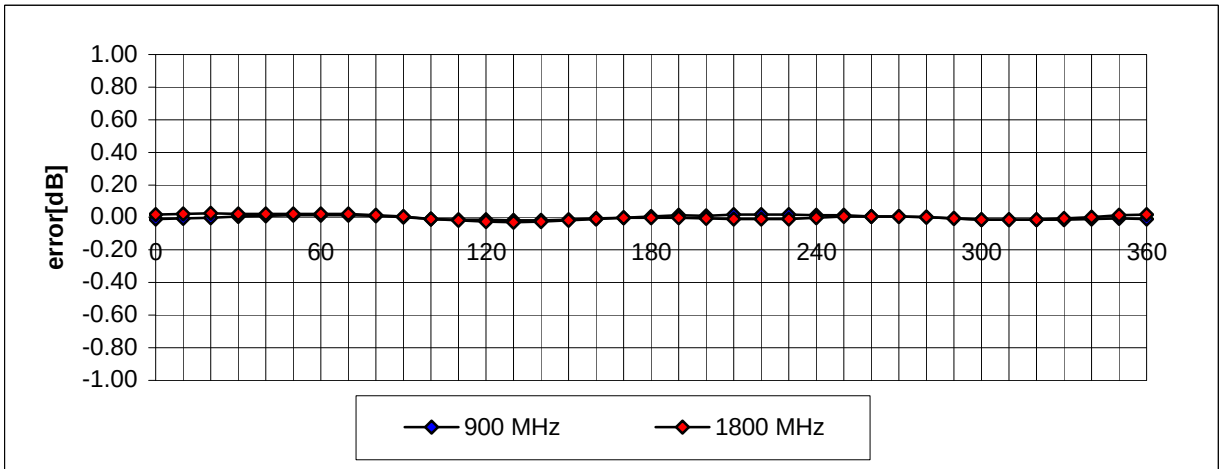
Dynamic Range f(SAR_{brain})
(TEM-Cell:ifi110)



Conversion Factor Assessment



Receiving Pattern (f) (in brain tissue, z = 5 mm)



APPENDIX D - SAR TEST SETUP PHOTOGRAPHS

FACE-HELD SAR TEST SETUP PHOTOGRAPHS
4.0cm Separation Distance

With ATV-6XL 146MHz Antenna



With ATV-6XL 160MHz Antenna



FACE-HELD SAR TEST SETUP PHOTOGRAPHS
4.0cm Separation Distance

With ATV-6XL 174MHz Antenna



With ATV-6A Antenna



FACE-HELD SAR TEST SETUP PHOTOGRAPHS
4.0cm Separation Distance

With ATV-6B Antenna



With ATV-6C Antenna



BODY-WORN SAR TEST SETUP PHOTOGRAPHS
1.0cm Separation Distance with Belt-Clip

With ATV-6XL 146MHz Antenna



With ATV-6XL 160MHz Antenna



BODY-WORN SAR TEST SETUP PHOTOGRAPHS
1.0cm Separation Distance with Belt-Clip

With ATV-6XL 174MHz Antenna



With ATV-6A Antenna

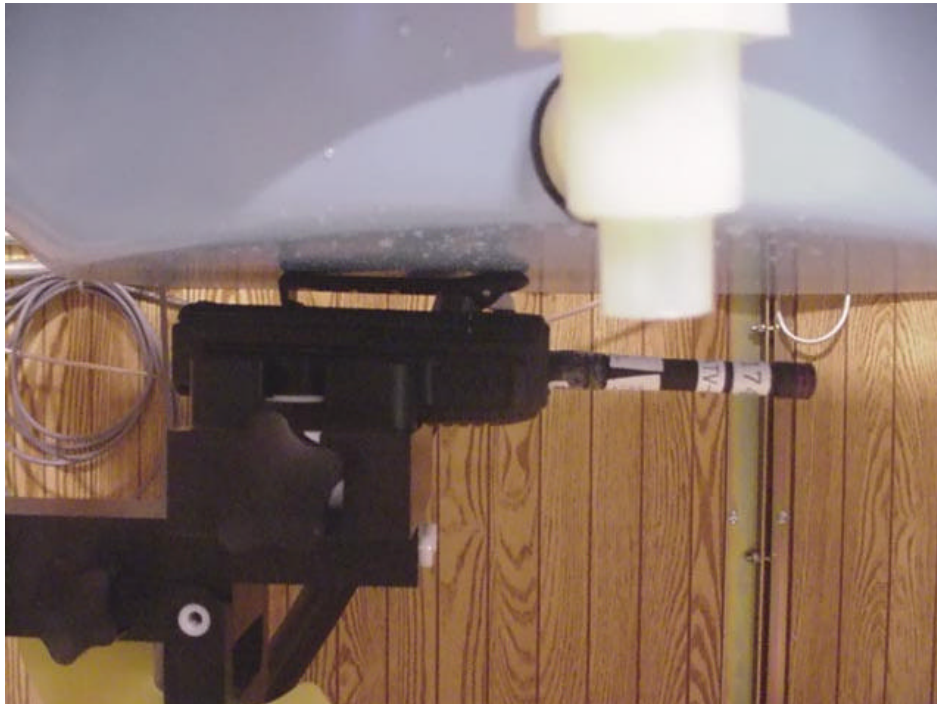


BODY-WORN SAR TEST SETUP PHOTOGRAPHS
1.0cm Separation Distance with Belt-Clip

With ATV-6B Antenna



With ATV-6C Antenna



BODY-WORN SAR TEST SETUP PHOTOGRAPHS
0.5cm Separation Distance with Leather Belt Case

With ATV-6XL 146MHz Antenna



With ATV-6XL 160MHz Antenna



BODY-WORN SAR TEST SETUP PHOTOGRAPHS
0.5cm Separation Distance with Leather Belt Case

With ATV-6XL 174MHz Antenna



With ATV-6A Antenna



BODY-WORN SAR TEST SETUP PHOTOGRAPHS
0.5cm Separation Distance with Leather Belt Case

With ATV-6B Antenna



With ATV-6C Antenna

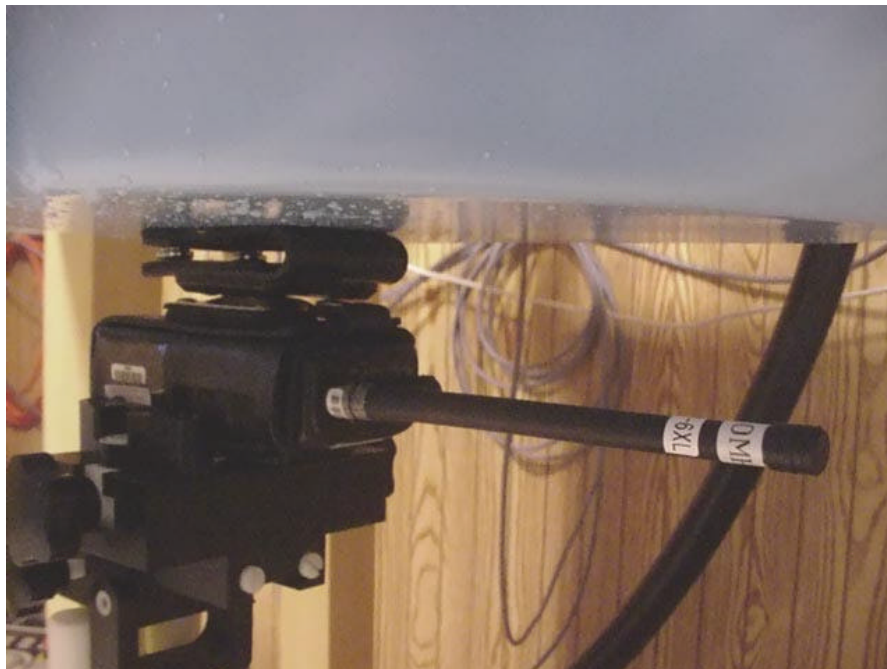


**BODY-WORN SAR TEST SETUP PHOTOGRAPHS
4.0cm Separation Distance with Leather Body Holster**

With ATV-6XL 146MHz Antenna



With ATV-6XL 160MHz Antenna



**BODY-WORN SAR TEST SETUP PHOTOGRAPHS
4.0cm Separation Distance with Leather Body Holster**

With ATV-6XL 174MHz Antenna

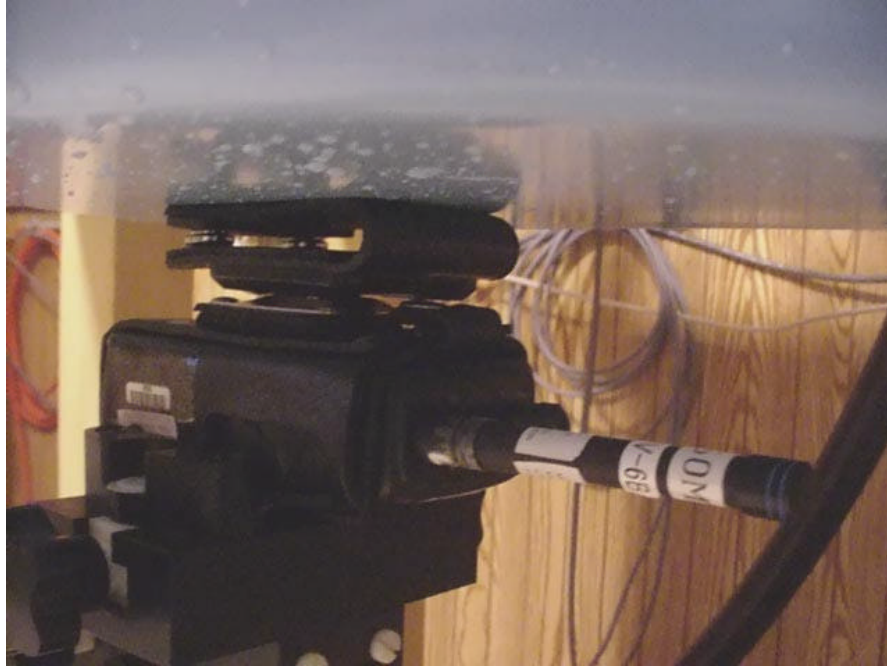


With ATV-6A Antenna



BODY-WORN SAR TEST SETUP PHOTOGRAPHS
4.0cm Separation Distance with Leather Body Holster

With ATV-6B Antenna



With ATV-6C Antenna

