

CELLTECH RESEARCH INC.

1955 Moss Court, Kelowna,
B.C. CANADA V1Y 9L3

Test Report S/N: 100300-26K66

Date(s) of Tests: October 20, 2000

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

NormX	1.55 $\mu\text{V}/(\text{V}/\text{m})^2$
NormY	1.65 $\mu\text{V}/(\text{V}/\text{m})^2$
NormZ	1.64 $\mu\text{V}/(\text{V}/\text{m})^2$

Diode Compression

DCP X	98 mV
DCP Y	98 mV
DCP Z	98 mV

Sensitivity in Tissue Simulating Liquid

Brain	450 MHz	$\epsilon_r = 48 \pm 5\%$	$\sigma = 0.50 \pm 10\% \text{ mho}/\text{m}$
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ConvF X	6.76 extrapolated
ConvF Y	6.76 extrapolated
ConvF Z	6.76 extrapolated

Boundary effect:	
Alpha	0.30
Depth	2.52

Brain	900 MHz	$\epsilon_r = 42.5 \pm 5\%$	$\sigma = 0.86 \pm 10\% \text{ mho}/\text{m}$
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ConvF X	6.34 $\pm 7\%$ (k=2)
ConvF Y	6.34 $\pm 7\%$ (k=2)
ConvF Z	6.34 $\pm 7\%$ (k=2)

Boundary effect:	
Alpha	0.47
Depth	2.25

Brain	1500 MHz	$\epsilon_r = 41 \pm 5\%$	$\sigma = 1.32 \pm 10\% \text{ mho}/\text{m}$
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ConvF X	5.78 interpolated
ConvF Y	5.78 interpolated
ConvF Z	5.78 interpolated

Boundary effect:	
Alpha	0.69
Depth	1.88

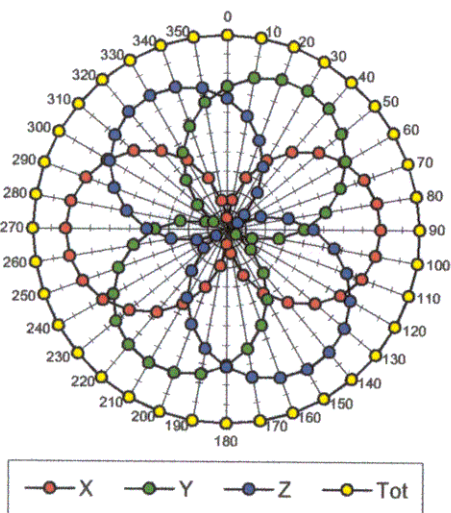
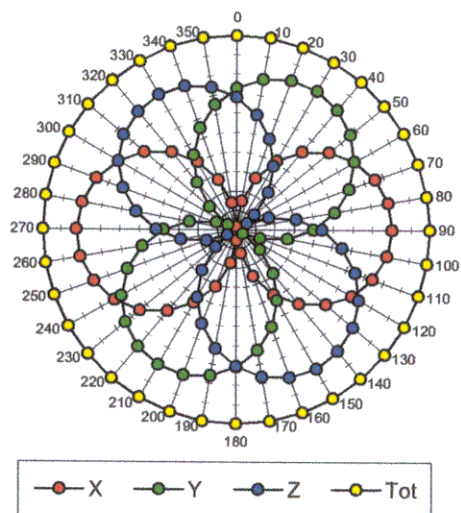
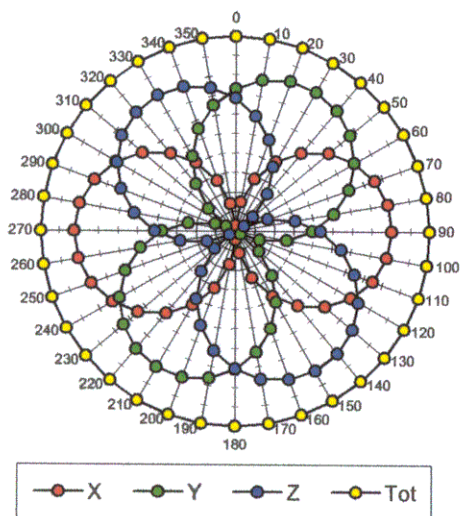
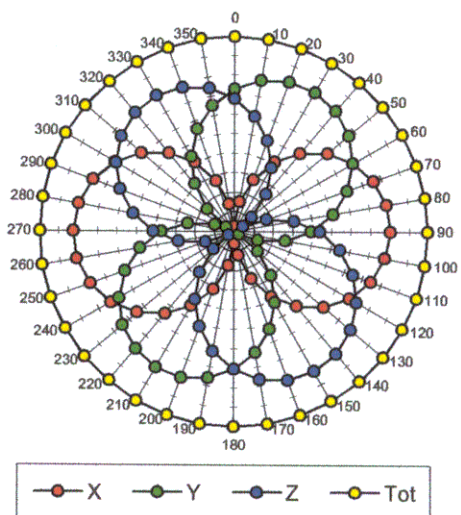
Brain	1800 MHz	$\epsilon_r = 41 \pm 5\%$	$\sigma = 1.69 \pm 10\% \text{ mho}/\text{m}$
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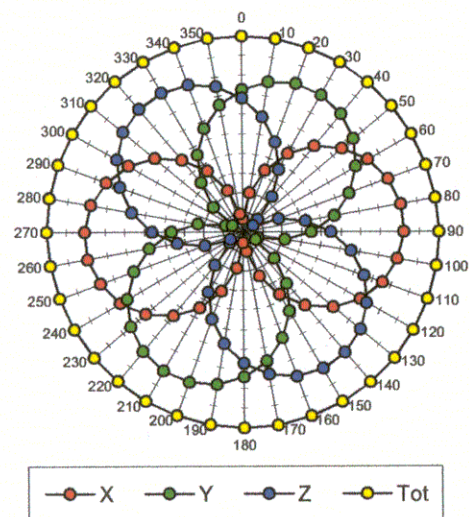
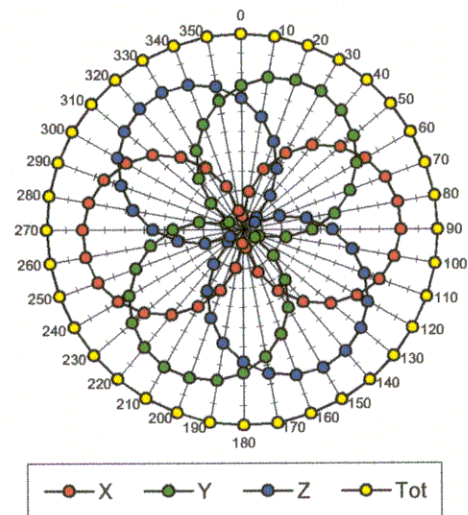
ConvF X	5.50 $\pm 7\%$ (k=2)
ConvF Y	5.50 $\pm 7\%$ (k=2)
ConvF Z	5.50 $\pm 7\%$ (k=2)

Boundary effect:	
Alpha	0.81
Depth	1.70

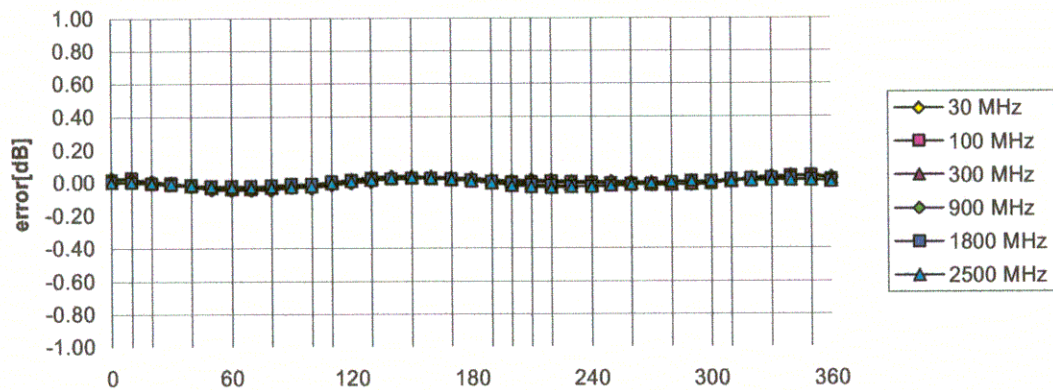
Sensor Offset

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

Receiving Pattern (ϕ), $\theta = 0^\circ$ **f = 30 MHz, TEM cell ifi110****f = 100 MHz, TEM cell ifi110****f = 300 MHz, TEM cell ifi110****f = 900 MHz, TEM cell ifi110**

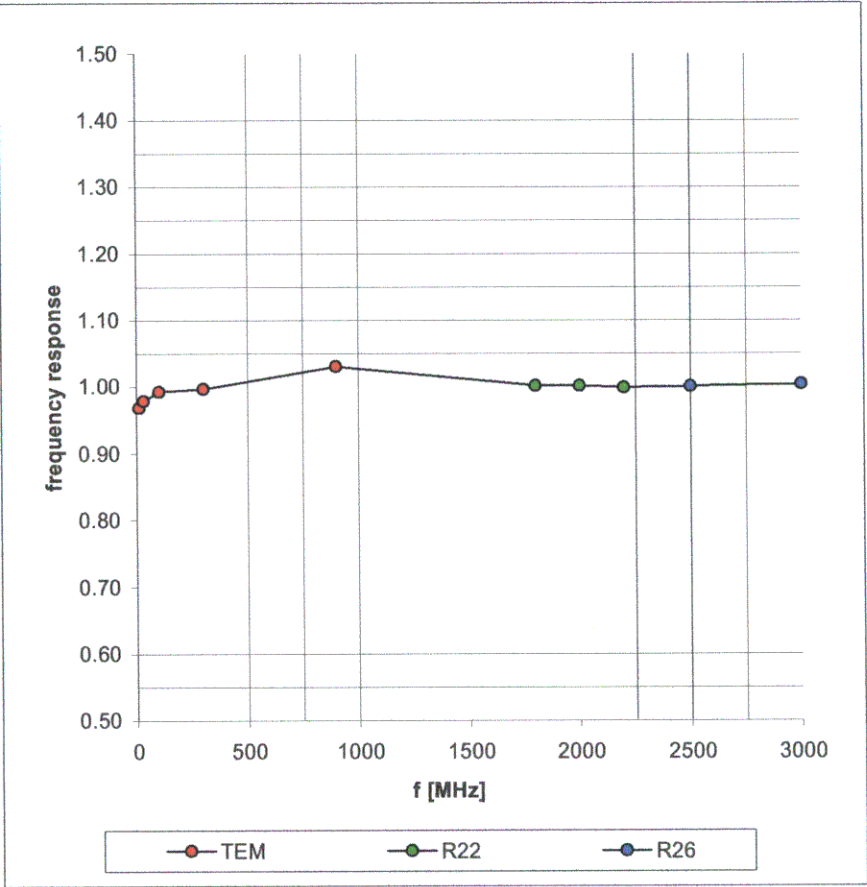
$f = 1800 \text{ MHz}$, WG R22 $f = 2500 \text{ MHz}$, WG R26

Isotropy Error (ϕ), $\theta = 0^\circ$

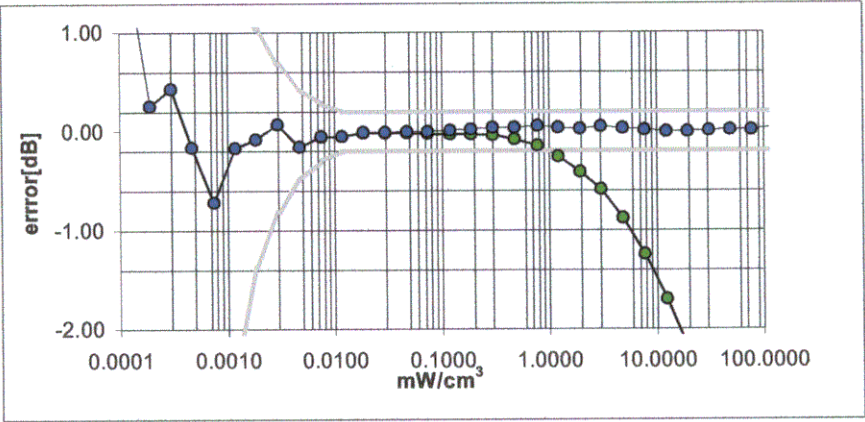
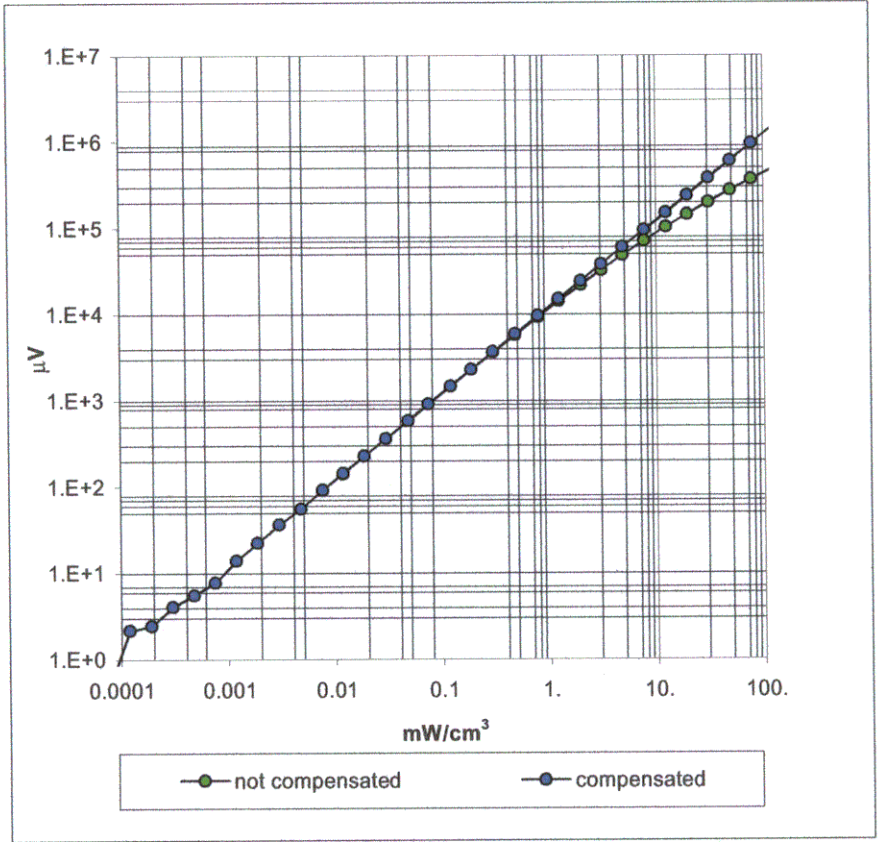


Frequency Response of E-Field

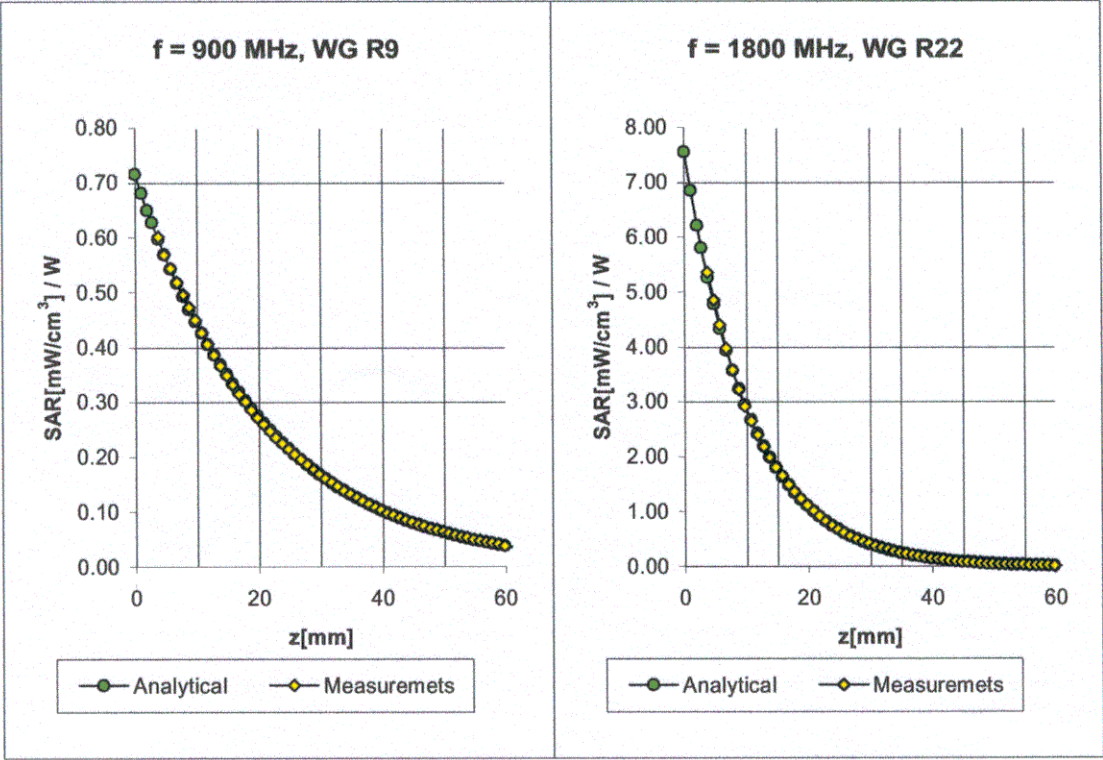
(TEM-Cell:ifi110, Waveguide R22, R26)



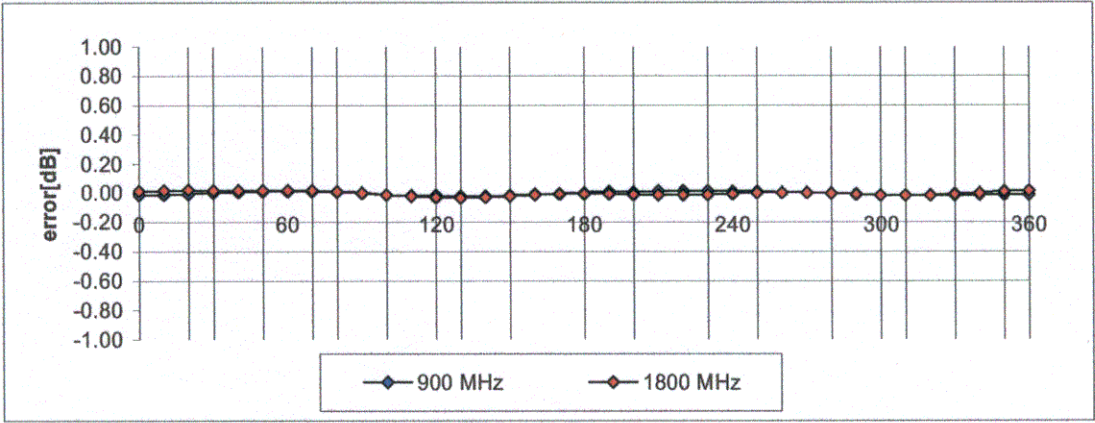
Dynamic Range f(SAR_{brain})
(TEM-Cell:ifi110)



Conversion Factor Assessment



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

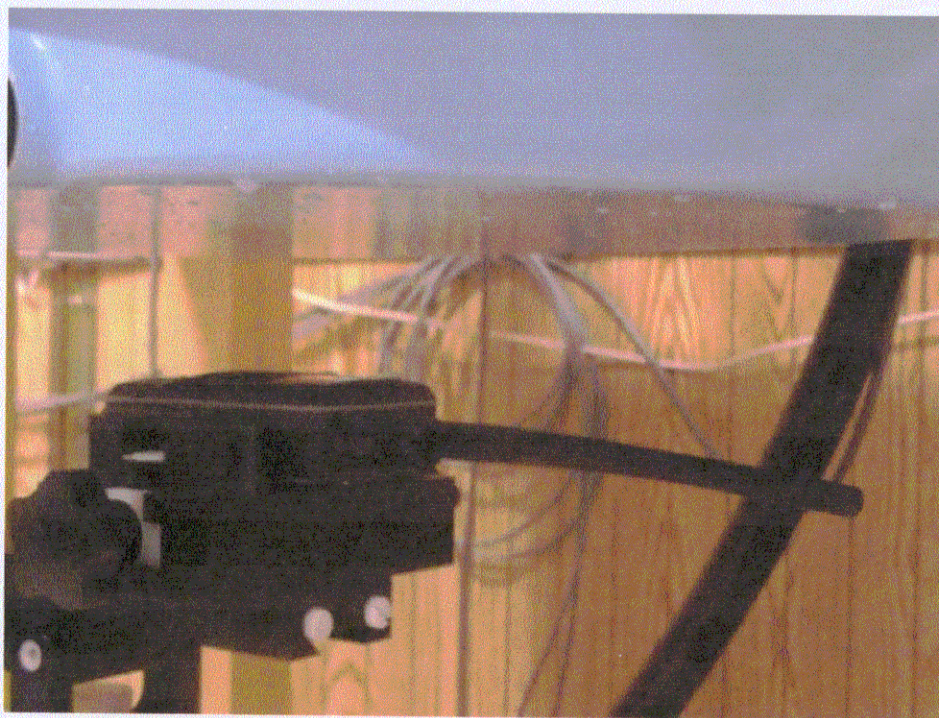
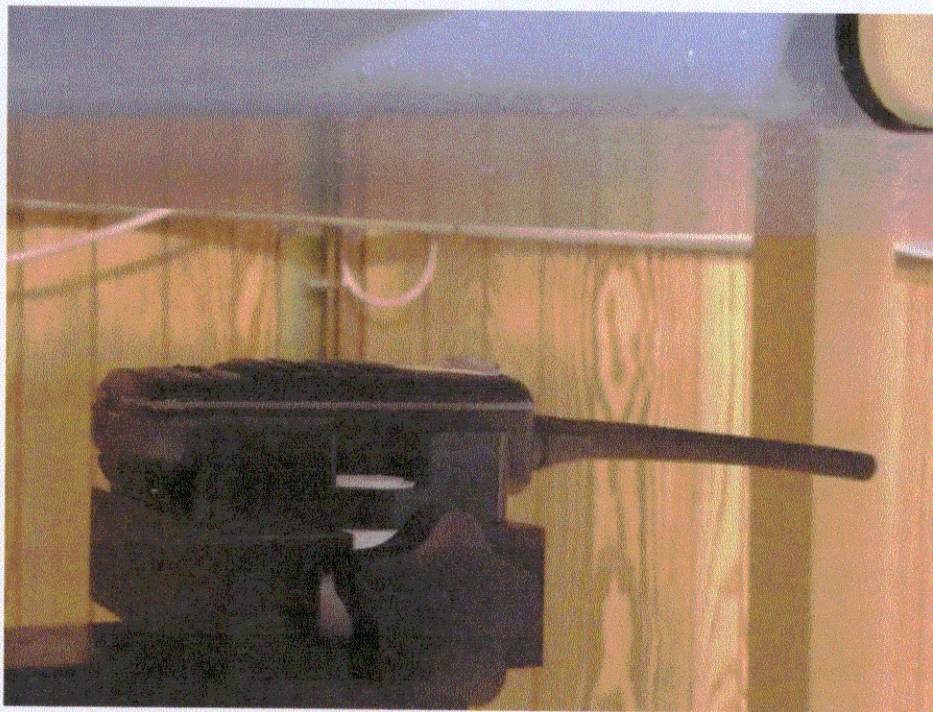


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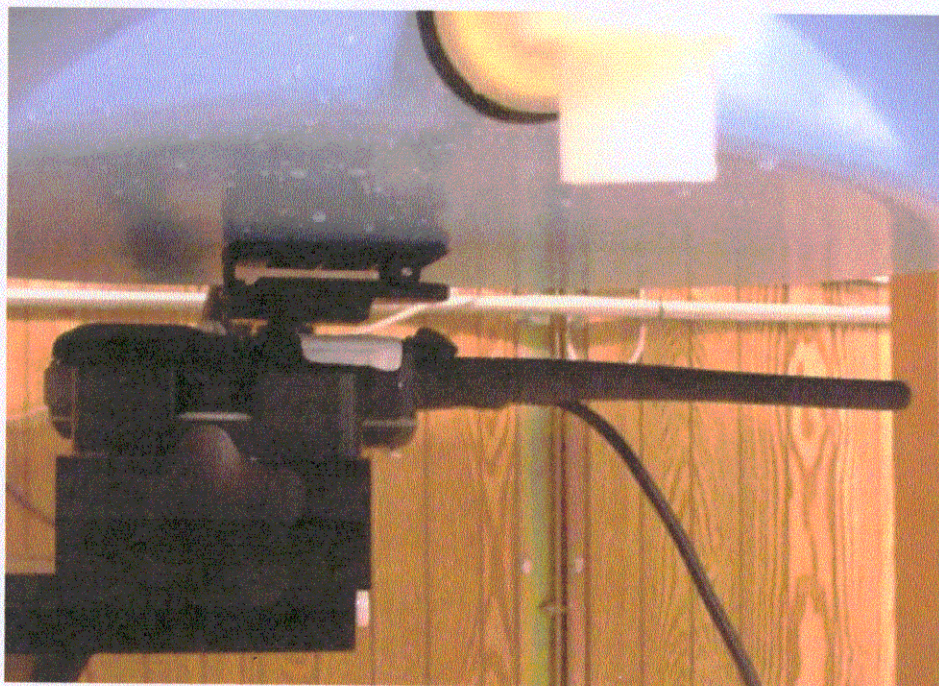
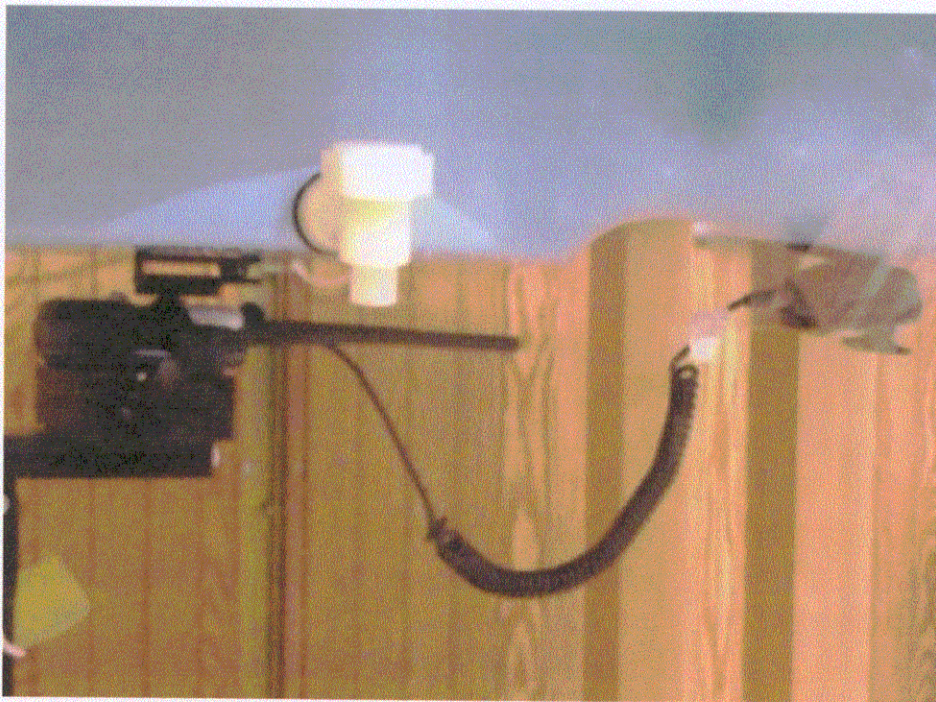
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APPENDIX "D" – TEST SETUP PHOTOGRAPHS

FACE-HELD SAR TEST SETUP PHOTOGRAPHS
4cm spacing



BODY-WORN SAR TEST SETUP PHOTOGRAPHS
2.3cm spacing with belt-clip



EUT PHOTOGRAPHS



EUT PHOTOGRAPHS

