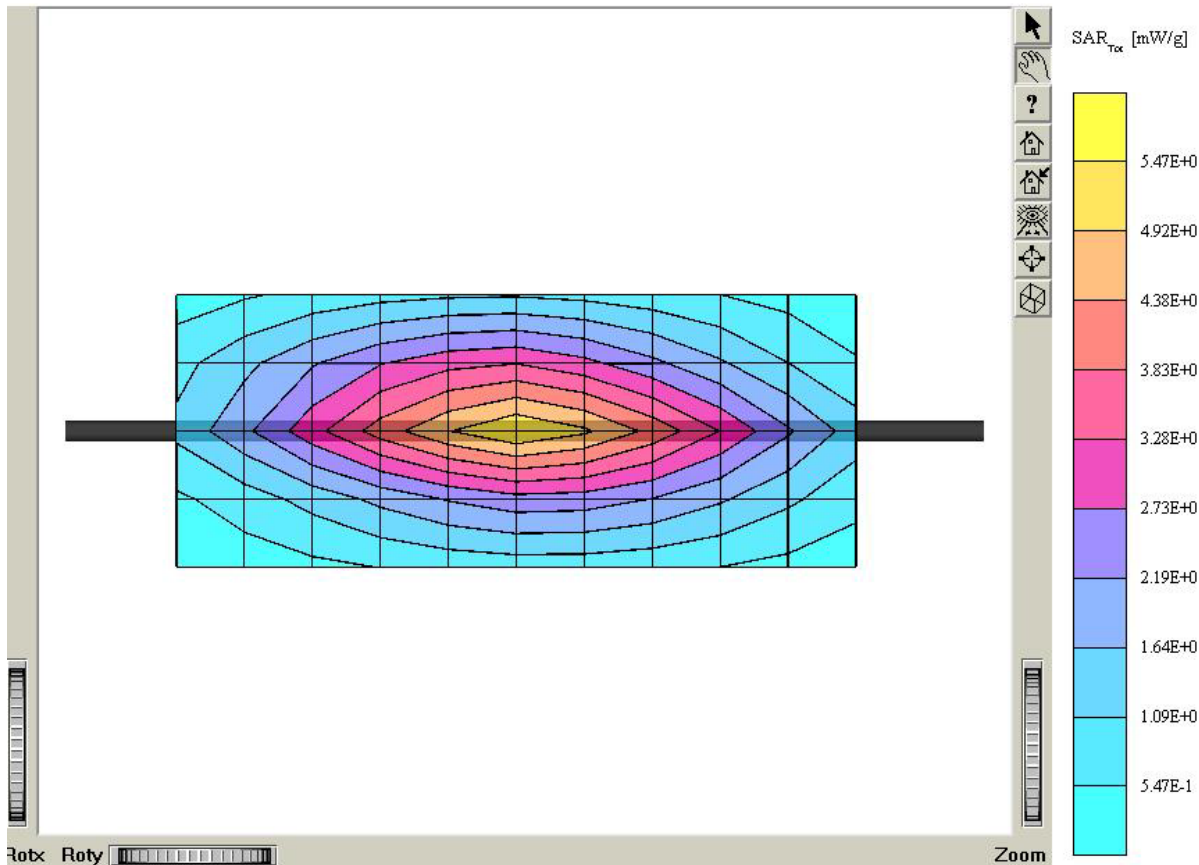


APPENDIX D – DIPOLE VALIDATION PLOTS

Dipole 450 MHz

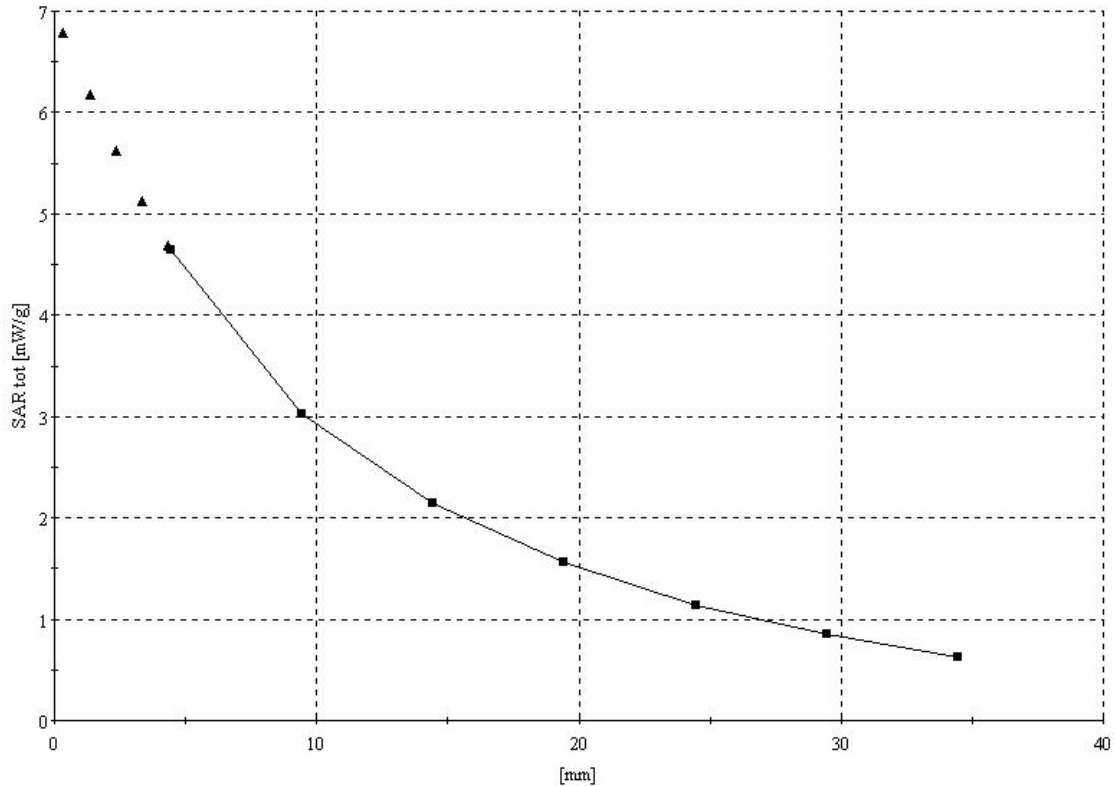
SAM II Phantom: Flat Section: Position: (90°, 90°); Frequency: 450 MHz
 Probe: ET3DV6 - SN1608; ConvF(7.13, 7.13, 7.13); Crest factor: 1.0; Brain 450 MHz: $s = 0.86 \text{ mho/m}$, $\epsilon_r = 43.7$, $\rho = 1.00 \text{ g/cm}^3$
 Cubes (2): SAR (1g): $5.20 \text{ mW/g} \pm 0.00 \text{ dB}$, SAR (10g): $3.39 \text{ mW/g} \pm 0.01 \text{ dB}$
 Coarse: $D_x = 20.0$, $D_y = 20.0$, $D_z = 10.0$
 : Powerdrift: -0.00 dB
 Comment:
 Dipole Validation (D450V2/ S.N: 1007)
 450MHz Brain
 Antenna Input Power: 30dBm (1 W)
 HCT Co., Ltd. Brain Tissue Simulating Liquid
 Liquid Temperature: 21.5°C
 Date Tested: December 24, 2002



Dipole 450 MHz

SAM II Phantom: Flat Section: Position: (90°,90°); Frequency: 450 MHz
Probe: ET3DV6 - SN1608; ConvF(7.13,7.13,7.13); Crest factor: 1.0; Brain 450 MHz: $s = 0.86 \text{ mho/m}$, $\epsilon_r = 43.7$, $r = 1.00 \text{ g/cm}^3$
Cubes (2): SAR (1g): $5.20 \text{ mW/g} \pm 0.00 \text{ dB}$, SAR (10g): $3.39 \text{ mW/g} \pm 0.01 \text{ dB}$
Cube 5x5x7: $D_x = 8.0$, $D_y = 8.0$, $D_z = 5.0$

Comment:
Dipole Validation (D450V2/ S.N: 1007)
450MHz Brain
Antenna Input Power: 30dBm (1 W)
HCT Co., Ltd. Brain Tissue Simulating Liquid
Liquid Temperature: 21.5 °C
Date Tested: December 24, 2002



Title: GMRS-120**SubTitle: 450MHz Brain**

December 24, 2002 08:35 AM

Frequency	e'	e''
400.000000 MHz	45.3000	35.8470
405.000000 MHz	45.2981	35.6939
410.000000 MHz	45.0694	35.3124
415.000000 MHz	45.0598	35.2910
420.000000 MHz	44.8830	34.8763
425.000000 MHz	44.7973	34.6549
430.000000 MHz	44.7127	34.5554
435.000000 MHz	44.5728	34.3317
440.000000 MHz	44.3374	34.0899
445.000000 MHz	44.3077	33.8031
450.000000 MHz	44.1292	33.6393
455.000000 MHz	44.0815	33.4587
460.000000 MHz	44.0177	33.2844
465.000000 MHz	43.9442	33.0426
470.000000 MHz	43.7836	32.8650
475.000000 MHz	43.6441	32.6881
480.000000 MHz	43.5636	32.4789
485.000000 MHz	43.5335	32.3527
490.000000 MHz	43.3615	32.2010
495.000000 MHz	43.2877	32.0019
500.000000 MHz	43.1195	31.8398

Title: GMRS-120**SubTitle: 450MHz Body**

December 24, 2002 09:25 AM

Frequency	e'	e''
400.000000 MHz	56.7111	40.1741
405.000000 MHz	56.6835	39.7872
410.000000 MHz	56.5747	39.4131
415.000000 MHz	56.4004	39.1215
420.000000 MHz	56.3620	38.8829
425.000000 MHz	56.3227	38.5284
430.000000 MHz	56.1339	38.3296
435.000000 MHz	55.8974	38.0661
440.000000 MHz	55.8404	37.6962
445.000000 MHz	55.7698	37.4525
450.000000 MHz	55.6352	37.1690
455.000000 MHz	55.6499	36.9565
460.000000 MHz	55.4993	36.7624
465.000000 MHz	55.4171	36.6144
470.000000 MHz	55.3620	36.4087
475.000000 MHz	55.2805	36.1576
480.000000 MHz	55.1320	35.9255
485.000000 MHz	55.0872	35.7479
490.000000 MHz	55.0224	35.4714
495.000000 MHz	54.9533	35.2535
500.000000 MHz	54.9600	35.0580