

APPENDIX D – DIPOLE VALIDATION PLOTS

Dipole 450 MHz

SAM II Phantom: Flat Section; Position: (90°, 90°); Frequency: 450 MHz

Probe: ET3DV6 - SN1609; ConvF(7.40, 7.40, 7.40); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.85$ mho/m $\epsilon_r = 43.2$ $\rho = 1.00$ g/cm³

Cubes (2): SAR (1g): 4.73 mW/g ± 0.14 dB, SAR (10g): 3.09 mW/g ± 0.14 dB, (Worst-case extrapolation)

Coarse: $D_x = 20.0$, $D_y = 20.0$, $D_z = 10.0$

: Powerd(1): -0.00 dB

Comment:

Dipole Validation (D450V2/ S.N: 1007)

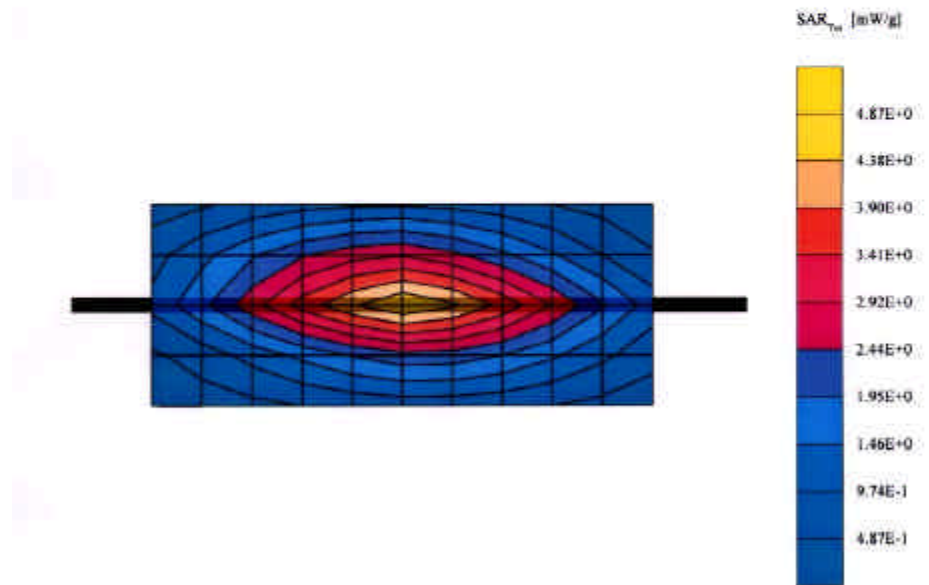
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 22 °C

Date Tested: August 7, 2002



HYUNDAI CALIBRATION & CERTIFICATION TECHNOLOGIES CO., LTD.

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Dipole 450 MHz

SAM II Phantom; Flat Section; Position: (90°, 90°); Frequency: 450 MHz
 Probe: ET3DV6 - SN1609; ConvF(7.40, 7.40, 7.40); Crest factor: 1.0; Brain 450 MHz: $s = 0.86 \text{ mho/m}$, $\epsilon = 43.2$, $r = 1.00 \text{ g/cm}^3$

Cubes (2): SAR (1g): $4.73 \text{ mW/g} \pm 0.14 \text{ dB}$, SAR (10g): $3.09 \text{ mW/g} \pm 0.14 \text{ dB}$. (Worst-case extrapolation)
 Cube 5x5x7: $D_x = 8.0$, $D_y = 8.0$, $D_z = 5.0$

Comment:

Dipole Validation (D450V2/ S.N: 1007)

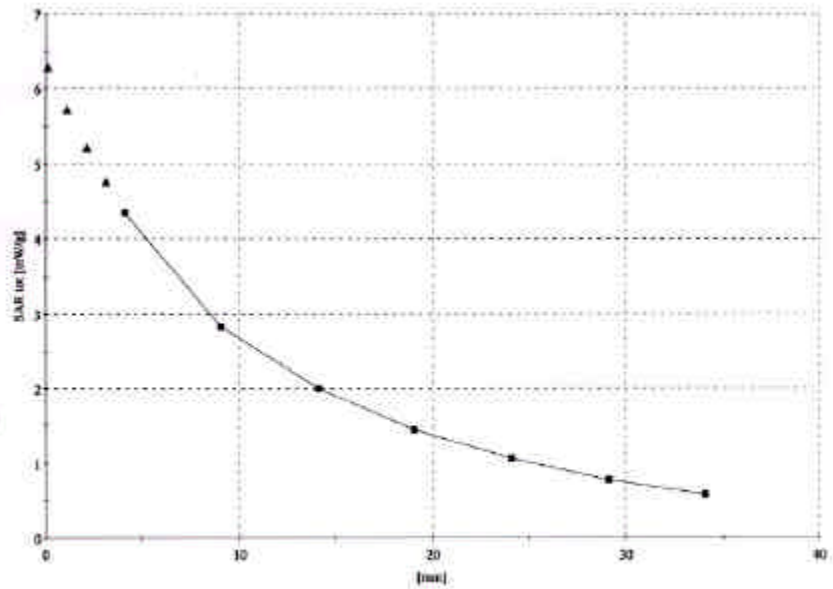
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Antenna Input Power: 30dBm (1 W)

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Title: 450MHz Brain

Model: GMRS-1100

August 07, 2002 08:18 AM

Frequency	e'	e''
400.000000 MHz	43.7347	36.8833
405.000000 MHz	43.3039	36.6187
410.000000 MHz	42.9053	36.3678
415.000000 MHz	42.5188	36.2842
420.000000 MHz	42.3589	36.0425
425.000000 MHz	42.1312	35.9944
430.000000 MHz	42.2461	35.7035
435.000000 MHz	42.4046	35.3342
440.000000 MHz	42.6008	35.1189
445.000000 MHz	42.8805	34.8559
450.000000 MHz	43.1520	34.5786
455.000000 MHz	43.4935	34.3121
460.000000 MHz	43.8226	34.0134
465.000000 MHz	44.0627	33.6595
470.000000 MHz	44.2817	33.4310
475.000000 MHz	44.3781	33.1365
480.000000 MHz	44.4029	32.9559
485.000000 MHz	44.2742	32.6995
490.000000 MHz	44.1148	32.4538
495.000000 MHz	43.9203	32.2881
500.000000 MHz	43.5374	32.1930

Title: 450MHz Body

Model: GMRS-1100

August 07, 2002 01:04 PM

Frequency	e'	e''
400.000000 MHz	56.9067	40.0664
405.000000 MHz	56.9553	39.7446
410.000000 MHz	56.9165	39.3332
415.000000 MHz	56.7729	39.0590
420.000000 MHz	56.7428	38.8230
425.000000 MHz	56.6662	38.4668
430.000000 MHz	56.4449	38.1874
435.000000 MHz	56.3700	37.9352
440.000000 MHz	56.1597	37.5627
445.000000 MHz	55.9379	37.3488
450.000000 MHz	55.8608	37.0132
455.000000 MHz	55.8447	36.8397
460.000000 MHz	55.6155	36.5660
465.000000 MHz	55.5775	36.3289
470.000000 MHz	55.4807	36.1763
475.000000 MHz	55.3695	35.9895
480.000000 MHz	55.2467	35.7551
485.000000 MHz	55.2073	35.6100
490.000000 MHz	55.2394	35.3376
495.000000 MHz	55.1809	35.1234
500.000000 MHz	55.2892	35.0150