

APPENDIX D – DIPOLE VALIDATION PLOTS

Dipole 450 MHz

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

Probe: ET3DV6 - SN1609; ConvF(7.69,7.69,7.69); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.85 \text{ mho/m}$ $\epsilon_r = 44.8$ $\rho = 1.00 \text{ g/cm}^3$

Cubes (2): SAR (1g): $4.61 \text{ mW/g} \pm 0.00 \text{ dB}$, SAR (10g): $2.97 \text{ mW/g} \pm 0.02 \text{ dB}$

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Peak: $7.43 \text{ mW/g} \pm 0.02 \text{ dB}$; Powerdrift: -0.02 dB

Comment :

Dipole Validation (D450V2/ S.N: 1007)

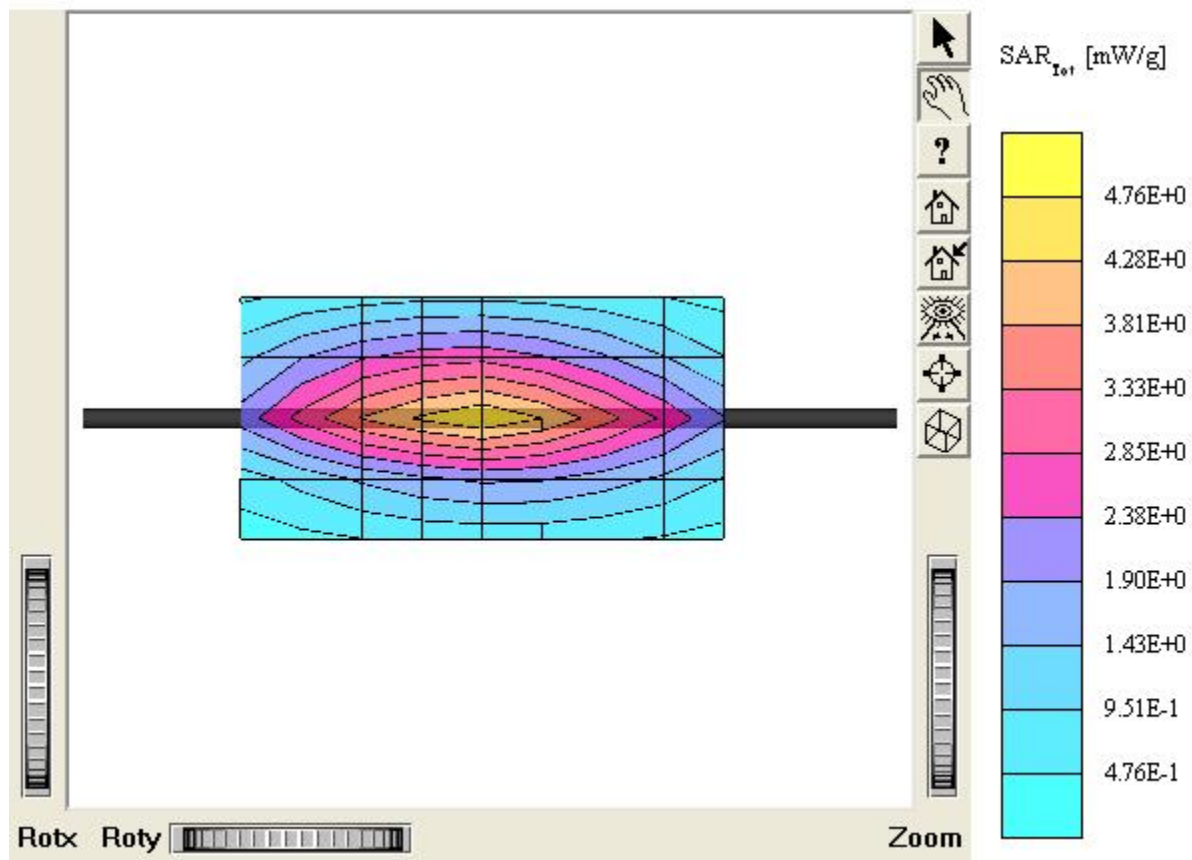
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.1 °C

Date Tested : March 12, 2005



Dipole 450 MHz

SAM I Phantom; Section; Position: ; Frequency: 450 MHz

Probe: ET3DV6 - SN1609; ConvF(7.69,7.69,7.69); Crest factor: 1.0; Brain 450 MHz: $\sigma = 0.85 \text{ mho/m}$ $\epsilon_r = 44.8$ $\rho = 1.00 \text{ g/cm}^3$

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Z-Axis: $D_x = 0.0$, $D_y = 0.0$, $D_z = 5.0$

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Comment :

Dipole Validation (D450V2/ S.N: 1007)

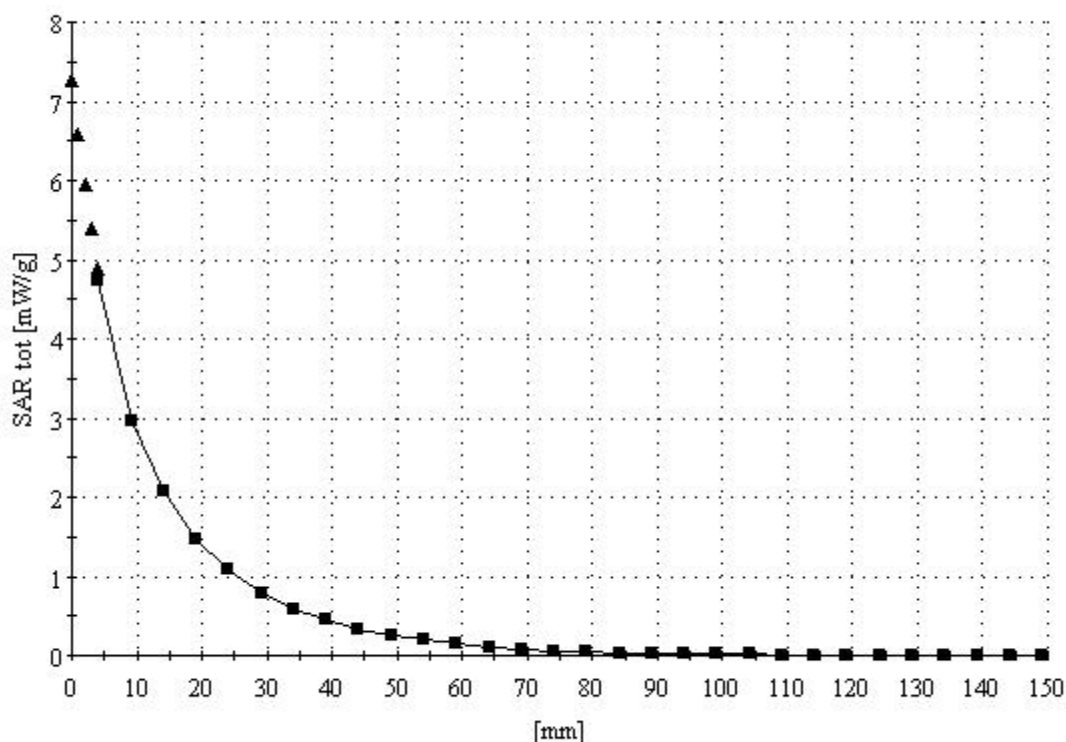
450MHz Brain

Antenna Input Power: 30dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.1 °C

Date Tested : March 12, 2005



Title : LXT410

SubTitle : 450MHz Brain

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Frequency	e'	e''
400.000000 MHz	45.4851	36.4048
405.000000 MHz	45.4707	36.3087
410.000000 MHz	45.4685	35.8042
415.000000 MHz	45.2540	35.6456
420.000000 MHz	45.0491	35.4500
425.000000 MHz	45.0724	35.1657
430.000000 MHz	44.8827	34.9003
435.000000 MHz	44.6412	34.6495
440.000000 MHz	44.5203	34.4055
445.000000 MHz	44.5406	34.2015
450.000000 MHz	44.4727	34.0342
455.000000 MHz	44.2919	33.9627
460.000000 MHz	44.2179	33.7293
465.000000 MHz	44.0986	33.5445
470.000000 MHz	43.9690	33.3925
475.000000 MHz	43.9266	33.3188
480.000000 MHz	43.9331	33.1058
485.000000 MHz	43.7585	32.9621
490.000000 MHz	43.8408	32.7782
495.000000 MHz	43.6935	32.5677
500.000000 MHz	43.6853	32.4568

Title : LXT410

SubTitle : 450MHz Body

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Frequency	e'	e''
400.000000 MHz	55.3324	39.8443
405.000000 MHz	55.1813	39.5099
410.000000 MHz	55.0868	39.1839
415.000000 MHz	55.1616	38.8756
420.000000 MHz	54.9483	38.6157
425.000000 MHz	54.8150	38.3276
430.000000 MHz	54.6697	38.0682
435.000000 MHz	54.4879	37.7036
440.000000 MHz	54.4393	37.6145
445.000000 MHz	54.3731	37.2218
450.000000 MHz	54.2197	36.9686
455.000000 MHz	54.2261	36.8412
460.000000 MHz	54.0104	36.6286
465.000000 MHz	53.9282	36.4595
470.000000 MHz	53.8645	36.2352
475.000000 MHz	53.7889	36.0812
480.000000 MHz	53.7241	35.8380
485.000000 MHz	53.6617	35.6881
490.000000 MHz	53.4931	35.6163
495.000000 MHz	53.3804	35.2893
500.000000 MHz	53.4088	35.1300