

■ Validation Data (835MHz Brain)

Dipole 1900 MHz

SAM II Phantom; Flat Section; Position: (90°,90°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1609; ConvP(5.29,5.29,5.29); Crest factor: 1.0; Brain 1900 MHz: $\sigma = 1.41$

mho/m $\epsilon_r = 40.3$ $\rho = 1.00$ g/cm³

Cubes (2): SAR (1g): 41.9 mW/g ± 0.05 dB, SAR (10g): 21.1 mW/g ± 0.04 dB

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

Powerdrift: 0.07 dB

Comment:

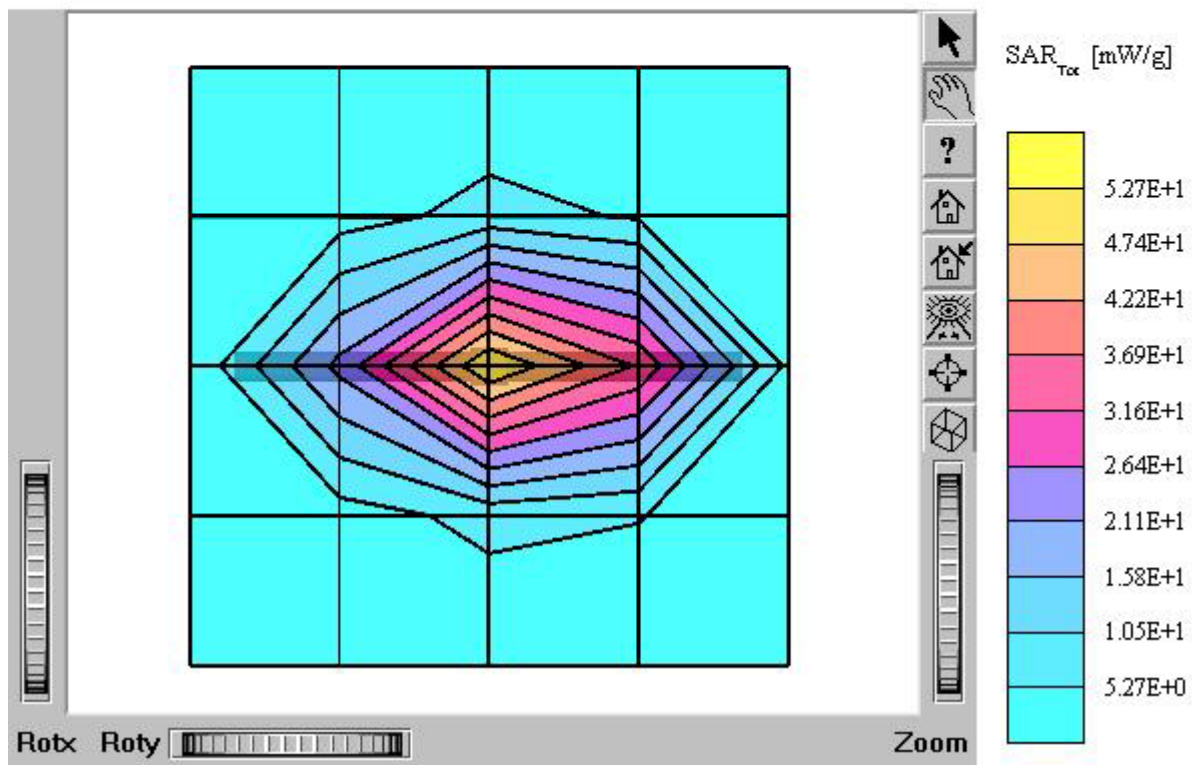
1900 MHz Brain Dipole Validation (D1900V2/ S.N: 5d032)

Antenna Input Power: 30 dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.5°C

Date Tested: May 15, 2004



Dipole 1900 MHz

SAM II Phantom; Section; Position: ; Frequency: 1900 MHz

Probe: ET3DV6 - SN1609; ConvF(5.29,5.29,5.29); Crest factor: 1.0; Brain 1900 MHz: $\sigma = 1.41$ mho/m $\epsilon_r = 40.3$ $\rho = 1.00$ g/cm³

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Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 5.0

Comment:

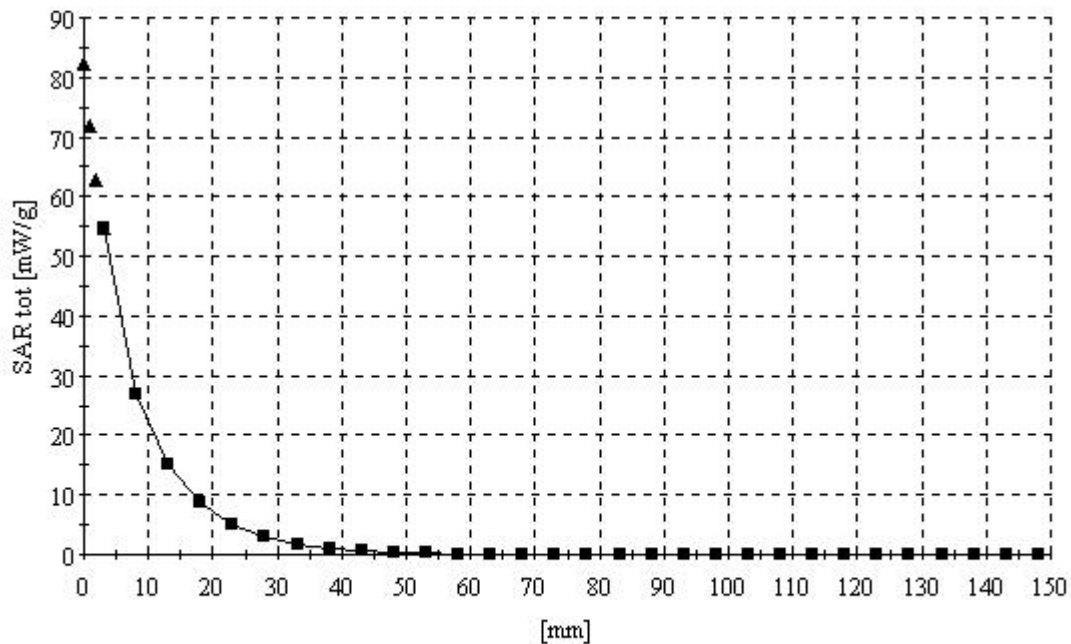
1900 MHz Brain Dipole Validation (D1900V2/ S.N: 5d032)

Antenna Input Power: 30 dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.5°C

Date Tested: May 15, 2004



■ Dielectric Parameter (1900MHz Brain)

Title : E211T**SubTitle : 1900 MHz Brain****May 15, 2004 03:33 AM**

Frequency	e'	e''
1.800000000 GHz	40.7545	13.0039
1.810000000 GHz	40.6921	13.0466
1.820000000 GHz	40.6821	13.0778
1.830000000 GHz	40.6164	13.1442
1.840000000 GHz	40.5425	13.1521
1.850000000 GHz	40.5086	13.2014
1.860000000 GHz	40.4846	13.2263
1.870000000 GHz	40.4341	13.2502
1.880000000 GHz	40.3653	13.2951
1.890000000 GHz	40.3329	13.3196
1.900000000 GHz	40.2736	13.3378
1.910000000 GHz	40.2036	13.3605
1.920000000 GHz	40.1518	13.4043
1.930000000 GHz	40.0674	13.4192
1.940000000 GHz	40.0432	13.4422
1.950000000 GHz	39.9904	13.4873
1.960000000 GHz	39.9360	13.5455
1.970000000 GHz	39.9098	13.5908
1.980000000 GHz	39.8343	13.6399
1.990000000 GHz	39.8462	13.6417
2.000000000 GHz	39.8094	13.7003

■ Dielectric Parameter (1900MHz Muscle)

Title : E211T**SubTitle : 1900 MHz Body**

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Frequency	e'	e''
1.850000000 GHz	53.7515	14.9379
1.855000000 GHz	53.7310	14.9372
1.860000000 GHz	53.6978	14.9630
1.865000000 GHz	53.6300	14.9907
1.870000000 GHz	53.5599	14.9950
1.875000000 GHz	53.5116	14.9982
1.880000000 GHz	53.4748	14.9691
1.885000000 GHz	53.4047	14.9597
1.890000000 GHz	53.3832	14.9466
1.895000000 GHz	53.3445	14.9385
1.900000000 GHz	53.2845	14.9428
1.905000000 GHz	53.2531	14.9614
1.910000000 GHz	53.2186	14.9170
1.915000000 GHz	53.1935	14.9375
1.920000000 GHz	53.1885	14.9320
1.925000000 GHz	53.2237	14.9807
1.930000000 GHz	53.1960	14.9892
1.935000000 GHz	53.2322	15.0220
1.940000000 GHz	53.2118	15.0605
1.945000000 GHz	53.1976	15.0932
1.950000000 GHz	53.2117	15.1358

Dipole 1900 MHz

SAM II Phantom; Flat Section; Position: (90°,90°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1609; ConvF(5.29,5.29,5.29); Crest factor: 1.0; Brain 1900 MHz: $\sigma = 1.40$ mho/m $\epsilon_r = 40.3$ $\rho = 1.00$ g/cm³Cubes (2): SAR (1g): 43.4 mW/g ± 0.05 dB, SAR (10g): 21.8 mW/g ± 0.03 dB

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

Powerdrift: -0.01 dB

Comment:

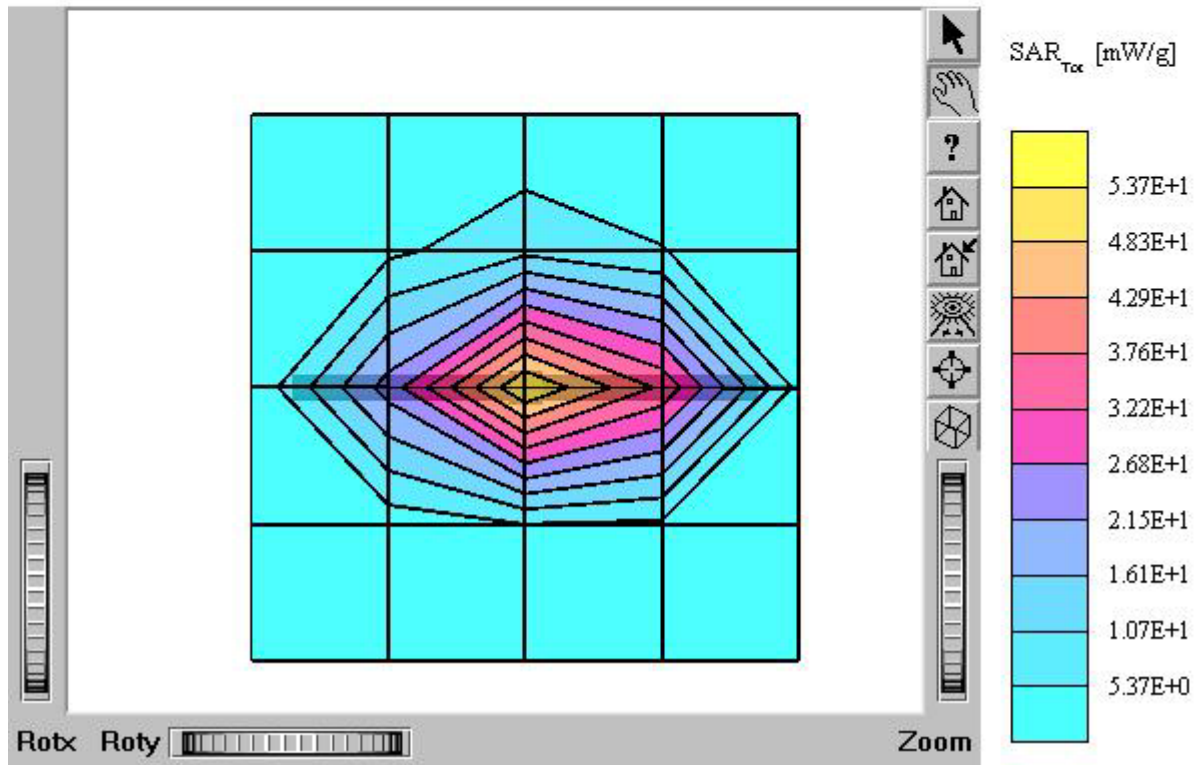
1900 MHz Brain Dipole Validation (D1900V2/ S.N: 5d032)

Antenna Input Power: 30 dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.4°C

Date Tested: June 3, 2004



Title : E211T
SubTitle : 1900 MHz Brain
June 03, 2004 07:26 PM

Frequency	e'	e''
1.800000000 GHz	40.7363	12.9356
1.810000000 GHz	40.6679	12.9885
1.820000000 GHz	40.6614	13.0451
1.830000000 GHz	40.5528	13.0871
1.840000000 GHz	40.5354	13.1170
1.850000000 GHz	40.4882	13.1600
1.860000000 GHz	40.4513	13.1932
1.870000000 GHz	40.4310	13.2220
1.880000000 GHz	40.3800	13.2434
1.890000000 GHz	40.3210	13.2643
1.900000000 GHz	40.2784	13.2718
1.910000000 GHz	40.1986	13.2800
1.920000000 GHz	40.1454	13.3130
1.930000000 GHz	40.0691	13.3407
1.940000000 GHz	40.0173	13.3673
1.950000000 GHz	39.9706	13.4264
1.960000000 GHz	39.9481	13.4929
1.970000000 GHz	39.9042	13.5473
1.980000000 GHz	39.8537	13.5943
1.990000000 GHz	39.8392	13.6053
2.000000000 GHz	39.8296	13.6394

Title : E211T

SubTitle : 1900 MHz Body

June 03, 2004 07:59 PM

Frequency	e'	e''
1.850000000 GHz	53.7728	14.9039
1.855000000 GHz	53.7573	14.8764
1.860000000 GHz	53.7126	14.8978
1.865000000 GHz	53.6288	14.9364
1.870000000 GHz	53.5673	14.9219
1.875000000 GHz	53.5033	14.9284
1.880000000 GHz	53.4978	14.9297
1.885000000 GHz	53.4286	14.8974
1.890000000 GHz	53.3746	14.9252
1.895000000 GHz	53.3451	14.9232
1.900000000 GHz	53.2945	14.9336
1.905000000 GHz	53.2689	14.9468
1.910000000 GHz	53.2291	14.9440
1.915000000 GHz	53.2084	14.9457
1.920000000 GHz	53.2212	14.9749
1.925000000 GHz	53.2473	15.0137
1.930000000 GHz	53.2259	15.0015
1.935000000 GHz	53.2410	15.0469
1.940000000 GHz	53.2210	15.0702
1.945000000 GHz	53.2485	15.0927
1.950000000 GHz	53.2497	15.1255