

Validation Data (835MHz Brain)

Dipole 835 MHz

SAM 1 Phantom: Flat Section; Position: (90°,90°); Frequency: 835 MHz

Probe: ET3DV6 - SN1798; ConvF(6.60,6.60,6.60); Crest factor: 1.0; Brain 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³Cubes (2): SAR (1g): 10.2 mW/g ± 0.00 dB, SAR (10g): 6.45 mW/g ± 0.00 dB

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

Powerdrift: 0.05 dB

Comment:

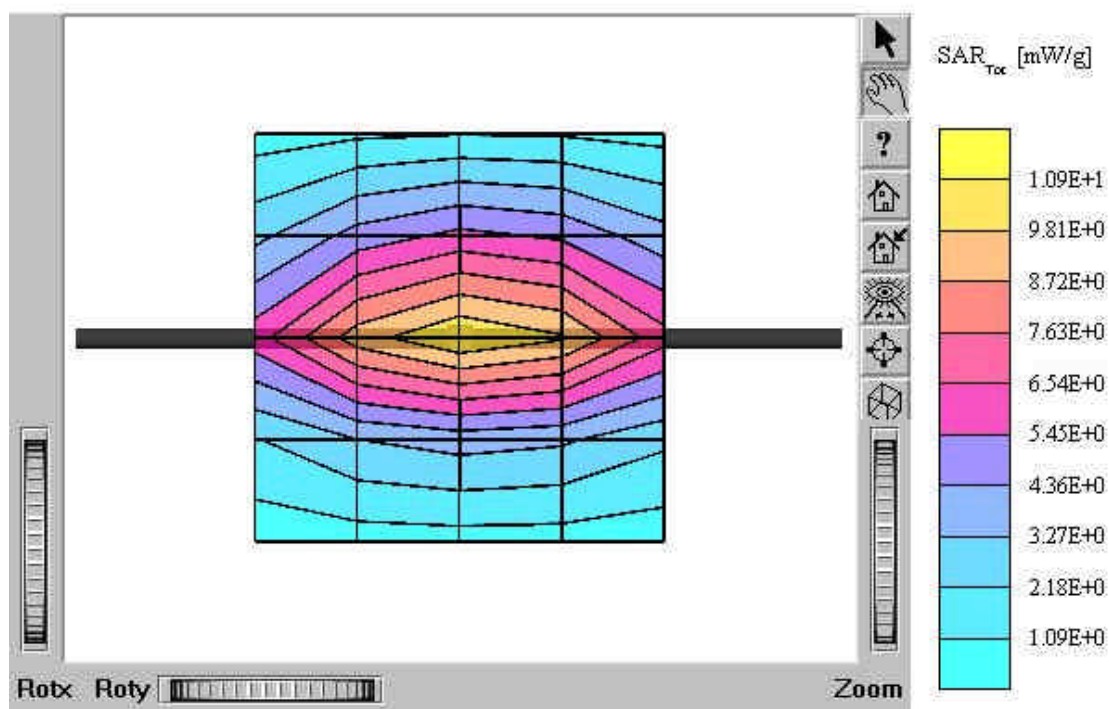
835MHz Brain Dipole Validation (D835V2/ S.N: 441)

Antenna Input Power: 30 dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.3°C

Date Tested: November 26, 2003



Validation Data (1900MHz Brain)

Dipole 1900 MHz

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

Probe: ET3DV6 - SN1798; ConvF(5.20,5.20,5.20); Crest factor: 1.0; Brain 1900 MHz: $\sigma = 1.44$

mho/m $\epsilon_r = 39.2$ $\rho = 1.00$ g/cm³

Cubes (2): SAR (1g): 40.7 mW/g ± 0.11 dB, SAR (10g): 20.8 mW/g ± 0.07 dB

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

Powerdrift: 0.04 dB

Comment:

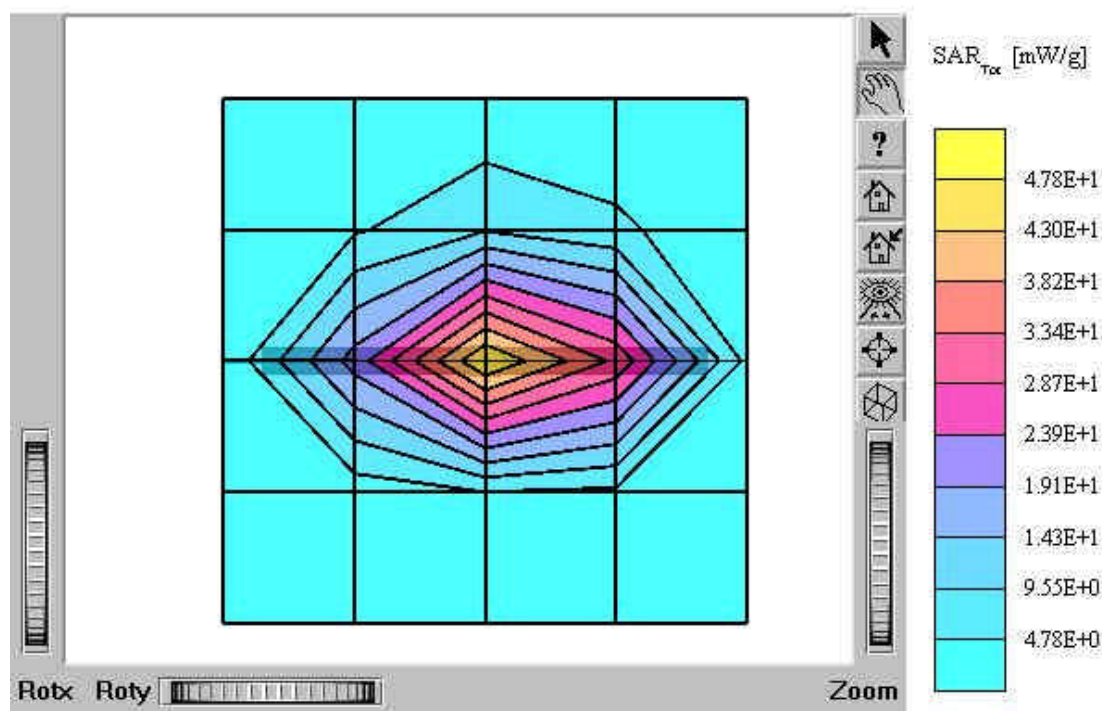
1900 MHz Brain Dipole Validation (D1900V2/ S.N: 5d032)

Antenna Input Power: 30 dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.3°C

Date Tested: November 26, 2003



Dipole 835 MHz

SAM 1 Phantom: Flat Section; Position: (90°, 90°); Frequency: 835 MHz

Probe: ET3DV6 - SN1798; ConvF(6.60, 6.60, 6.60); Crest factor: 1.0; Brain 835 MHz: $\sigma = 0.90$ mho/m $\epsilon_r = 41.5$ $\rho = 1.00$ g/cm³Cubes (2): SAR (1g): 10.2 mW/g ± 0.00 dB, SAR (10g): 6.45 mW/g ± 0.00 dB

Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0

Comment:

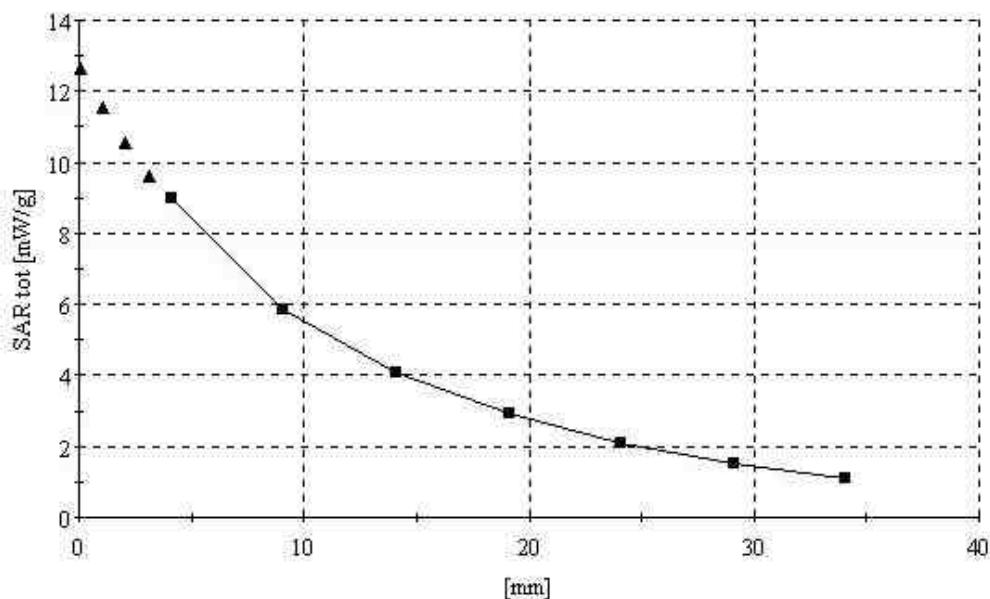
835MHz Brain Dipole Validation (D835V2/ S.N: 441)

Antenna Input Power: 30 dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.3°C

Date Tested: November 26, 2003



Dipole 1900 MHz

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

Probe: ET3DV6 - SN1798; ConvF(5.20,5.20,5.20); Crest factor: 1.0; Brain 1900 MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.2$ $\rho = 1.00$ g/cm³Cubes (2): SAR (1g): 40.7 mW/g ± 0.11 dB, SAR (10g): 20.8 mW/g ± 0.07 dB

Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0

Comment:

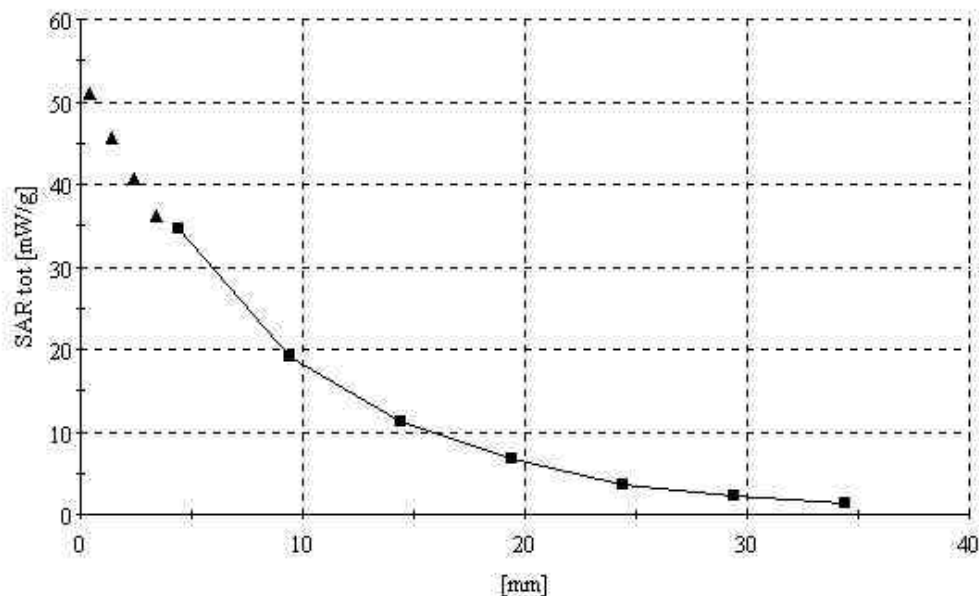
1900 MHz Brain Dipole Validation (D1900V2/ S.N: 5d032)

Antenna Input Power: 30 dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.3°C

Date Tested: November 26, 2003



! Dielectric Parameter (835MHz Brain)

Title : TDG-7050

SubTitle : 835 MHz Brain

November 26, 2003 09:47 AM

Frequency	e'	e''
800.000000 MHz	42.3965	19.4912
805.000000 MHz	42.2146	19.5098
810.000000 MHz	42.0887	19.4488
815.000000 MHz	41.9610	19.4537
820.000000 MHz	41.8291	19.4176
825.000000 MHz	41.7395	19.4131
830.000000 MHz	41.6195	19.4279
835.000000 MHz	41.5430	19.4415
840.000000 MHz	41.5081	19.4120
845.000000 MHz	41.4434	19.4226
850.000000 MHz	41.4332	19.4385
855.000000 MHz	41.3922	19.4526
860.000000 MHz	41.4566	19.4365
865.000000 MHz	41.3896	19.4272
870.000000 MHz	41.4407	19.4348
875.000000 MHz	41.4703	19.4381
880.000000 MHz	41.4439	19.4221
885.000000 MHz	41.4143	19.4273
890.000000 MHz	41.3372	19.3715
895.000000 MHz	41.3691	19.3437
900.000000 MHz	41.2125	19.2830

! Dielectric Parameter (1900MHz Brain)

Title : TDG-7050
SubTitle : 1900 MHz Brain
November 26, 2003 09:30 AM

Frequency	e'	e''
1.800000000 GHz	39.6187	13.3109
1.810000000 GHz	39.5799	13.3310
1.820000000 GHz	39.5033	13.3712
1.830000000 GHz	39.4433	13.4015
1.840000000 GHz	39.4000	13.4519
1.850000000 GHz	39.3531	13.4745
1.860000000 GHz	39.3132	13.5258
1.870000000 GHz	39.2688	13.5531
1.880000000 GHz	39.2621	13.6196
1.890000000 GHz	39.2326	13.6524
1.900000000 GHz	39.2047	13.6575
1.910000000 GHz	39.1493	13.6831
1.920000000 GHz	39.0953	13.6904
1.930000000 GHz	39.0301	13.6875
1.940000000 GHz	38.9907	13.7095
1.950000000 GHz	38.8958	13.7530
1.960000000 GHz	38.8397	13.7952
1.970000000 GHz	38.7751	13.8402
1.980000000 GHz	38.7178	13.8808
1.990000000 GHz	38.6999	13.9307
2.000000000 GHz	38.6768	13.9752

! Dielectric Parameter (835MHz Muscle)

Title : TDG-7050

SubTitle : 835 MHz Body

November 26, 2003 08:27 AM

Frequency	e'	e''
800.000000 MHz	54.3491	21.0420
805.000000 MHz	54.2623	21.0138
810.000000 MHz	54.2276	21.0013
815.000000 MHz	54.1362	20.9532
820.000000 MHz	54.0569	20.9350
825.000000 MHz	54.0597	20.9096
830.000000 MHz	53.9787	20.9259
835.000000 MHz	53.9658	20.9283
840.000000 MHz	53.9262	20.8855
845.000000 MHz	53.8835	20.9207
850.000000 MHz	53.8634	20.9255
855.000000 MHz	53.8465	20.9072
860.000000 MHz	53.7771	20.9194
865.000000 MHz	53.7524	20.9041
870.000000 MHz	53.6898	20.8712
875.000000 MHz	53.6943	20.8717
880.000000 MHz	53.6331	20.8653
885.000000 MHz	53.5927	20.8141
890.000000 MHz	53.5694	20.7778
895.000000 MHz	53.5113	20.7447
900.000000 MHz	53.4290	20.7007

Dielectric Parameter (1900MHz Muscle)

Title : TDG-7050

SubTitle : 1900 MHz Body

November 26, 2003 08:53 AM

Frequency	e'	e''
1.700000000 GHz	52.7726	14.2653
1.710000000 GHz	52.7260	14.3281
1.720000000 GHz	52.7478	14.3505
1.730000000 GHz	52.6759	14.3720
1.740000000 GHz	52.6967	14.3839
1.750000000 GHz	52.7072	14.3856
1.760000000 GHz	52.6712	14.4038
1.770000000 GHz	52.5945	14.3798
1.780000000 GHz	52.5879	14.3594
1.790000000 GHz	52.5448	14.3844
1.800000000 GHz	52.5033	14.4048
1.810000000 GHz	52.4947	14.4698
1.820000000 GHz	52.4024	14.5233
1.830000000 GHz	52.3707	14.5940
1.840000000 GHz	52.3405	14.6637
1.850000000 GHz	52.3101	14.6724
1.860000000 GHz	52.2560	14.7056
1.870000000 GHz	52.2413	14.7443
1.880000000 GHz	52.2293	14.7555
1.890000000 GHz	52.1857	14.7374
1.900000000 GHz	52.1425	14.6941
1.910000000 GHz	52.0550	14.7239
1.920000000 GHz	52.0177	14.7159
1.930000000 GHz	51.9670	14.7388
1.940000000 GHz	51.9313	14.7878
1.950000000 GHz	51.8816	14.8429
1.960000000 GHz	51.8742	14.8988
1.970000000 GHz	51.8585	14.9589
1.980000000 GHz	51.8026	14.9853
1.990000000 GHz	51.8093	14.9962
2.000000000 GHz	51.7614	15.0122