

ATTACHMENT Q – DIPOLE VALIDATION

■ Validation Data (835MHz Head)

Dipole 835 MHz

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

Probe: ET3DV6 - SN1609; ConvF(6.63,6.63,6.63); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.88$ mho/m $\epsilon_r = 42.1$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 10.1 mW/g, SAR (10g): 6.49 mW/g

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

Powerdrift: -0.01 dB

Comment :

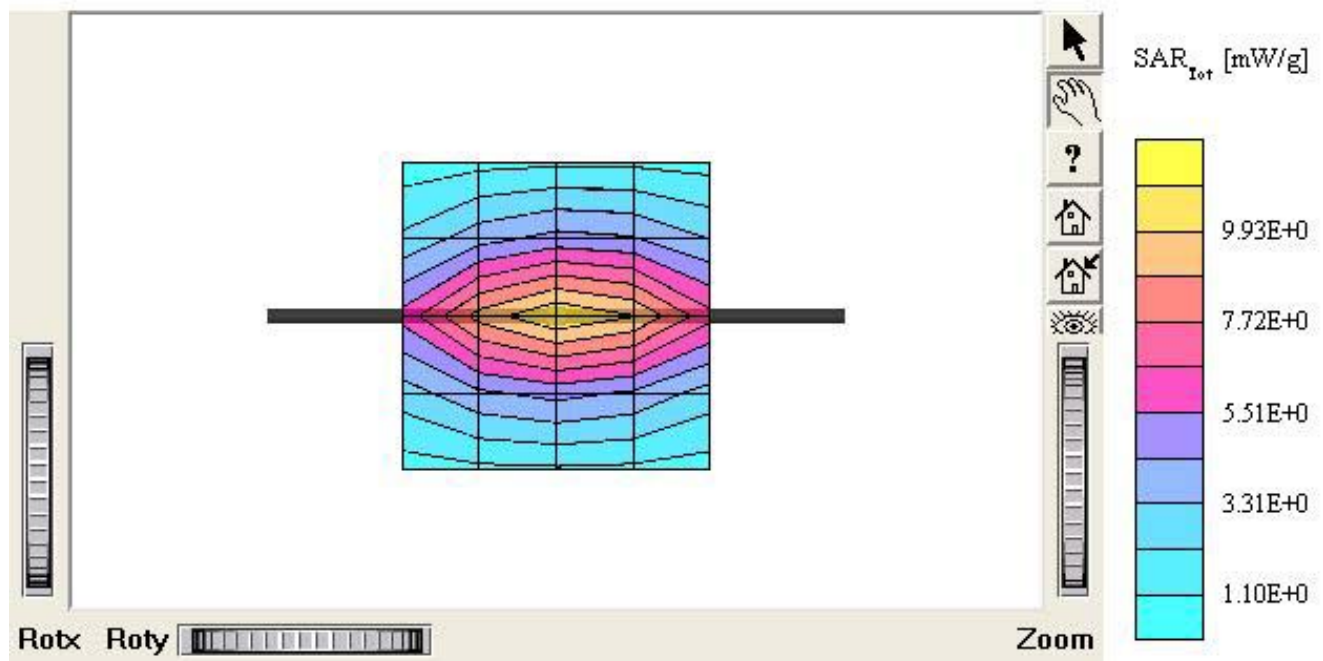
835MHz Brain Dipole Validation (D835V2/ S.N: 441)

Antenna Input Power: 30 dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.8°C

Date Tested : June 10, 2005



Dipole 835 MHz

SAM II Phantom; Section; Position: ; Frequency: 835 MHz

Probe: ET3DV6 - SN1609; ConvF(6.63,6.63,6.63); Crest factor: 1.0; Head 835 MHz: $\sigma = 0.88 \text{ mho/m}$ $\epsilon_r = 42.1$ $\rho = 1.00 \text{ g/cm}^3$

:

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

Comment :

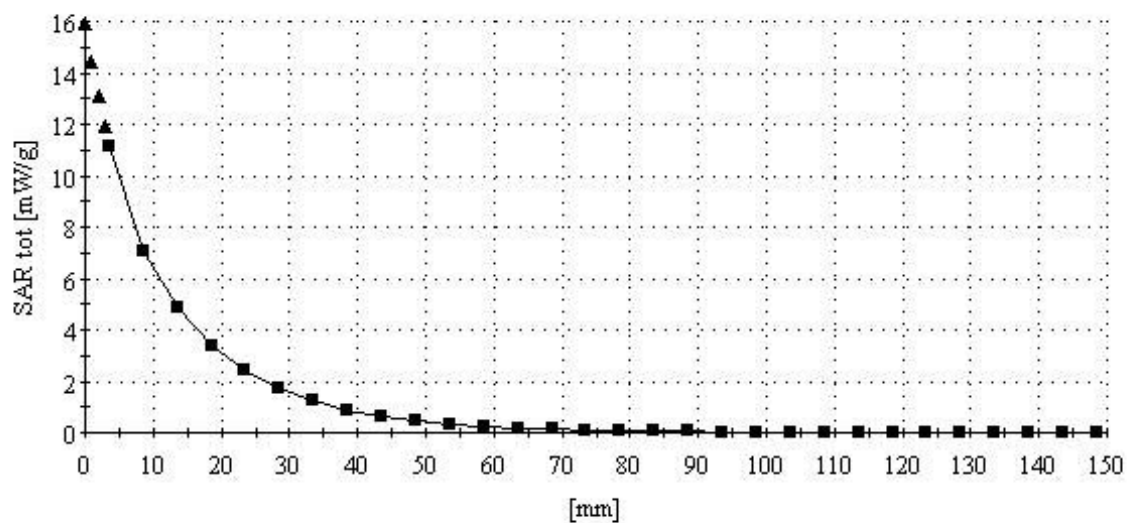
835MHz Brain Dipole Validation (D835V2/ S.N: 441)

Antenna Input Power: 30 dBm (1 W)

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■ Dielectric Parameter (835MHz Head)**Title : C1100****SubTitle : 835MHz HEAD**

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Frequency	e'	e''
800.000000 MHz	42.5914	19.0890
805.000000 MHz	42.5536	19.0479
810.000000 MHz	42.4932	19.0781
815.000000 MHz	42.4527	19.0597
820.000000 MHz	42.3819	19.0448
825.000000 MHz	42.2722	19.0198
830.000000 MHz	42.2129	19.0183
835.000000 MHz	42.1066	18.9777
840.000000 MHz	42.0819	18.9983
845.000000 MHz	41.9025	18.9485
850.000000 MHz	41.8880	18.9250
855.000000 MHz	41.7583	18.8937
860.000000 MHz	41.7237	18.8665
865.000000 MHz	41.6304	18.8463
870.000000 MHz	41.5412	18.8357
875.000000 MHz	41.4105	18.8174
880.000000 MHz	41.4009	18.8296
885.000000 MHz	41.2856	18.8377
890.000000 MHz	41.2318	18.8130
895.000000 MHz	41.1301	18.8079
900.000000 MHz	41.0986	18.8020

■ Dielectric Parameter (835MHz Body)**Title : C1100****SubTitle : 835MHz BODY****June 10, 2005 01:34 PM**

Frequency	e'	e''
800.000000 MHz	54.6342	21.0435
805.000000 MHz	54.5251	20.9883
810.000000 MHz	54.4454	20.9799
815.000000 MHz	54.3906	20.9741
820.000000 MHz	54.3512	21.0075
825.000000 MHz	54.3455	21.0228
830.000000 MHz	54.3194	21.1007
835.000000 MHz	54.3292	21.1369
840.000000 MHz	54.2913	21.1903
845.000000 MHz	54.3098	21.2440
850.000000 MHz	54.3684	21.3147
855.000000 MHz	54.5013	21.3778
860.000000 MHz	54.4994	21.3712
865.000000 MHz	54.4837	21.3264
870.000000 MHz	54.3915	21.3327
875.000000 MHz	54.3057	21.3101
880.000000 MHz	54.2053	21.2191
885.000000 MHz	54.0742	21.1147
890.000000 MHz	53.9900	21.0464
895.000000 MHz	53.8566	20.9037
900.000000 MHz	53.7366	20.8726