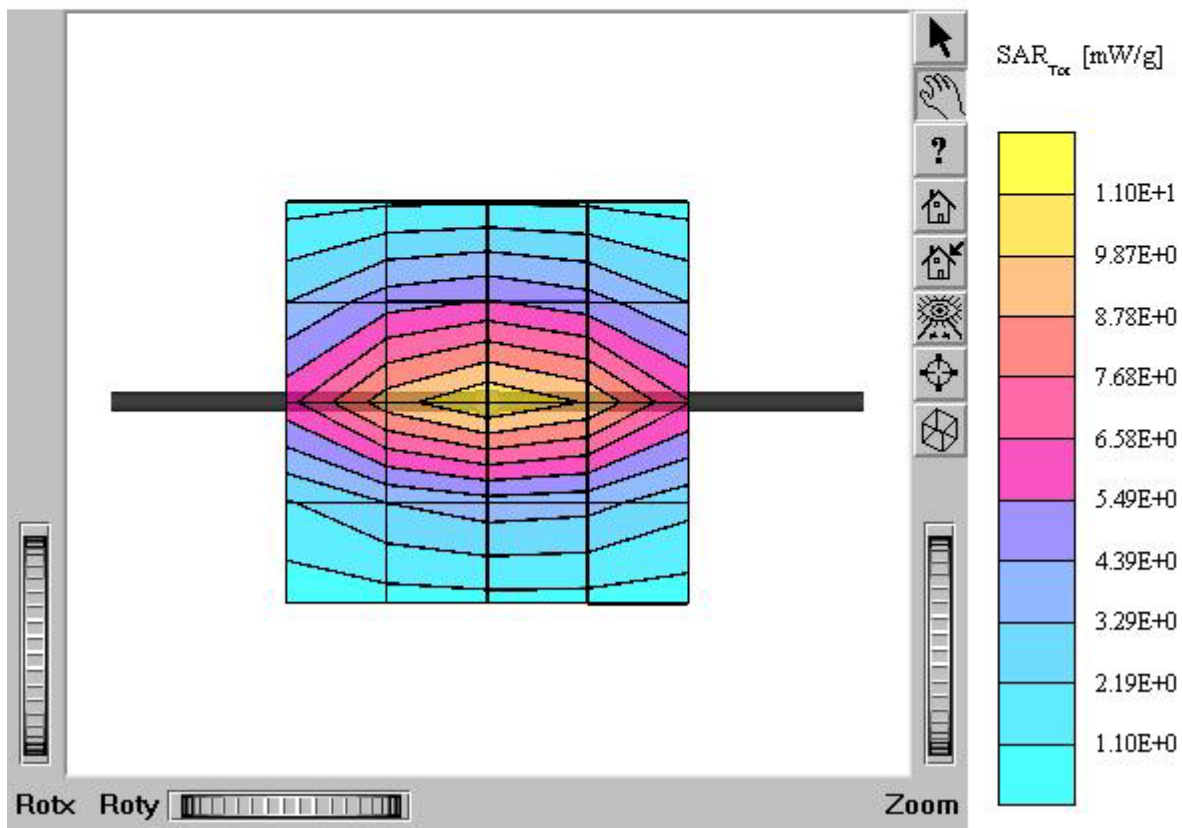


ATTACHMENT Q – DIPOLE VALIDATION

■ Validation Data (835MHz Head)

Dipole 835 MHz

SAM I Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz
Probe: ET3DV6 - SN1609; ConvF(6.63,6.63,6.63); Crest factor: 1.0; Brain 835 MHz: $s = 0.89$
 mho/m $\epsilon_r = 41.0$ $\rho = 1.00 \text{ g/cm}^3$
Cubes (2): SAR (1g): $10.3 \text{ mW/g} \pm 0.04 \text{ dB}$, SAR (10g): $6.61 \text{ mW/g} \pm 0.04 \text{ dB}$
Coarse: $D_x = 20.0$, $D_y = 20.0$, $D_z = 10.0$
Powerdrift: 0.02 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 : 21.2°C
Date Tested : April 8, 2005



Dipole 835 MHz

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

Probe: ET3DV6 - SN1609; ConvF(6.63,6.63,6.63); Crest factor: 1.0; Brain 835 MHz: $s = 0.89$
 ρ_{ho}/m $e_r = 41.0$ $r = 1.00$ g/cm^3

.

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

Comment:

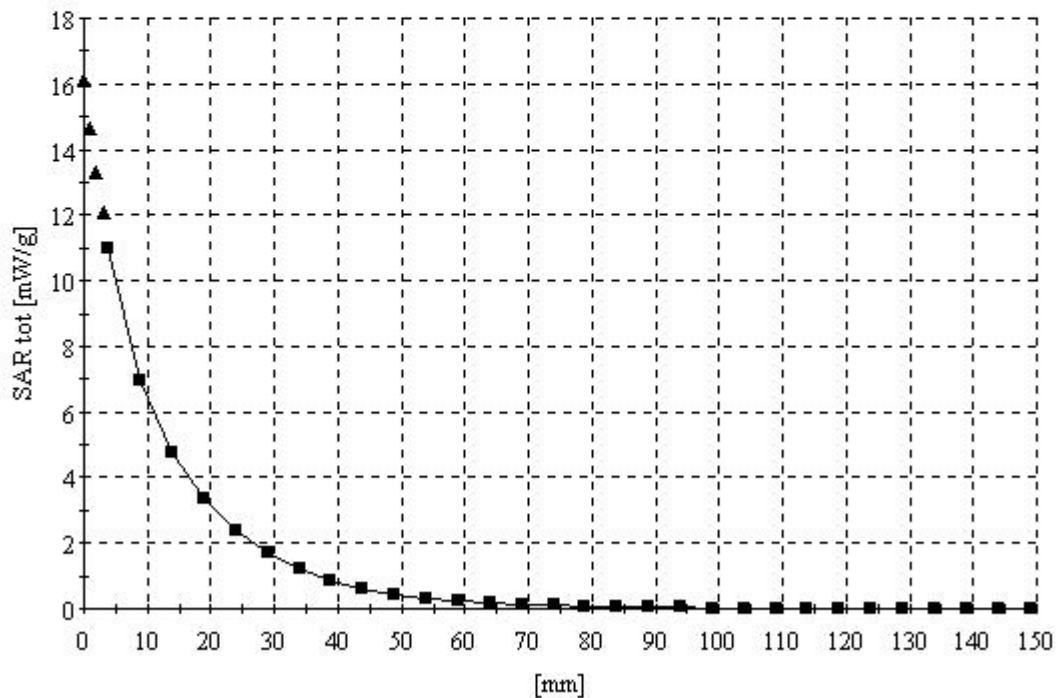
835MHz Brain Dipole Validation (D835V2/ S.N: 441)

Antenna Input Power: 30 dBm (1 W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.2°C

Date Tested : April 8, 2005



■ Dielectric Parameter (835MHz Head)

Title : PC-7100**SubTitle : 835MHz Head**

April 09, 2005 09:50 AM

Frequency	e'	e''
800.000000 MHz	41.6285	19.3507
805.000000 MHz	41.6717	19.2674
810.000000 MHz	41.3094	19.4776
815.000000 MHz	41.3702	19.2937
820.000000 MHz	41.2635	19.2422
825.000000 MHz	41.1511	19.2037
830.000000 MHz	41.1629	19.0370
835.000000 MHz	41.0275	19.1747
840.000000 MHz	41.0401	19.0096
845.000000 MHz	40.9420	18.9702
850.000000 MHz	40.7991	19.0991
855.000000 MHz	40.8622	18.8917
860.000000 MHz	40.7737	18.9845
865.000000 MHz	40.6192	19.0548
870.000000 MHz	40.6010	18.9543
875.000000 MHz	40.4657	19.0094
880.000000 MHz	40.4470	18.9908
885.000000 MHz	40.3430	19.0220
890.000000 MHz	40.1951	19.0858
895.000000 MHz	40.1777	18.9086
900.000000 MHz	40.1722	18.7396

■ Dielectric Parameter (835MHz Body)

Title : PC-7100**SubTitle : 835MHz Body**

April 09, 2005 02:46 PM

Frequency	e'	e''
800.000000 MHz	54.2806	21.2027
805.000000 MHz	54.2346	21.1595
810.000000 MHz	54.1739	21.1670
815.000000 MHz	54.0937	21.1479
820.000000 MHz	54.0665	21.1325
825.000000 MHz	53.9928	21.1396
830.000000 MHz	53.8826	21.1490
835.000000 MHz	53.8228	21.2010
840.000000 MHz	53.7476	21.2364
845.000000 MHz	53.6673	21.1644
850.000000 MHz	53.5221	21.1498
855.000000 MHz	53.5310	21.1655
860.000000 MHz	53.5167	21.1463
865.000000 MHz	53.4019	21.1434
870.000000 MHz	53.3836	21.1367
875.000000 MHz	53.3448	21.0738
880.000000 MHz	53.3642	21.1060
885.000000 MHz	53.2969	21.0756
890.000000 MHz	53.2729	21.0185
895.000000 MHz	53.3017	21.0147
900.000000 MHz	53.2621	20.9954