

## ATTACHMENT Q – DIPOLE VALIDATION

### € Validation Data (835MHz Brain)

#### Dipole 835 MHz

SAM TP1019 Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz

Probe: ET3DV6 - SN1608; ConvF(6.70,6.70,6.70); Crest factor: 1.0; Brain 835 MHz:  $\sigma = 0.90$  mho/m  $\epsilon_r = 41.1$   $\rho = 1.00$  g/cm<sup>3</sup>

Cubes (2): SAR (1g): 2.55 mW/g  $\pm 0.02$  dB, SAR (10g): 1.61 mW/g  $\pm 0.02$  dB,

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

Peak: 4.13 mW/g  $\pm 0.03$  dB; Powerdrift: 0.01 dB

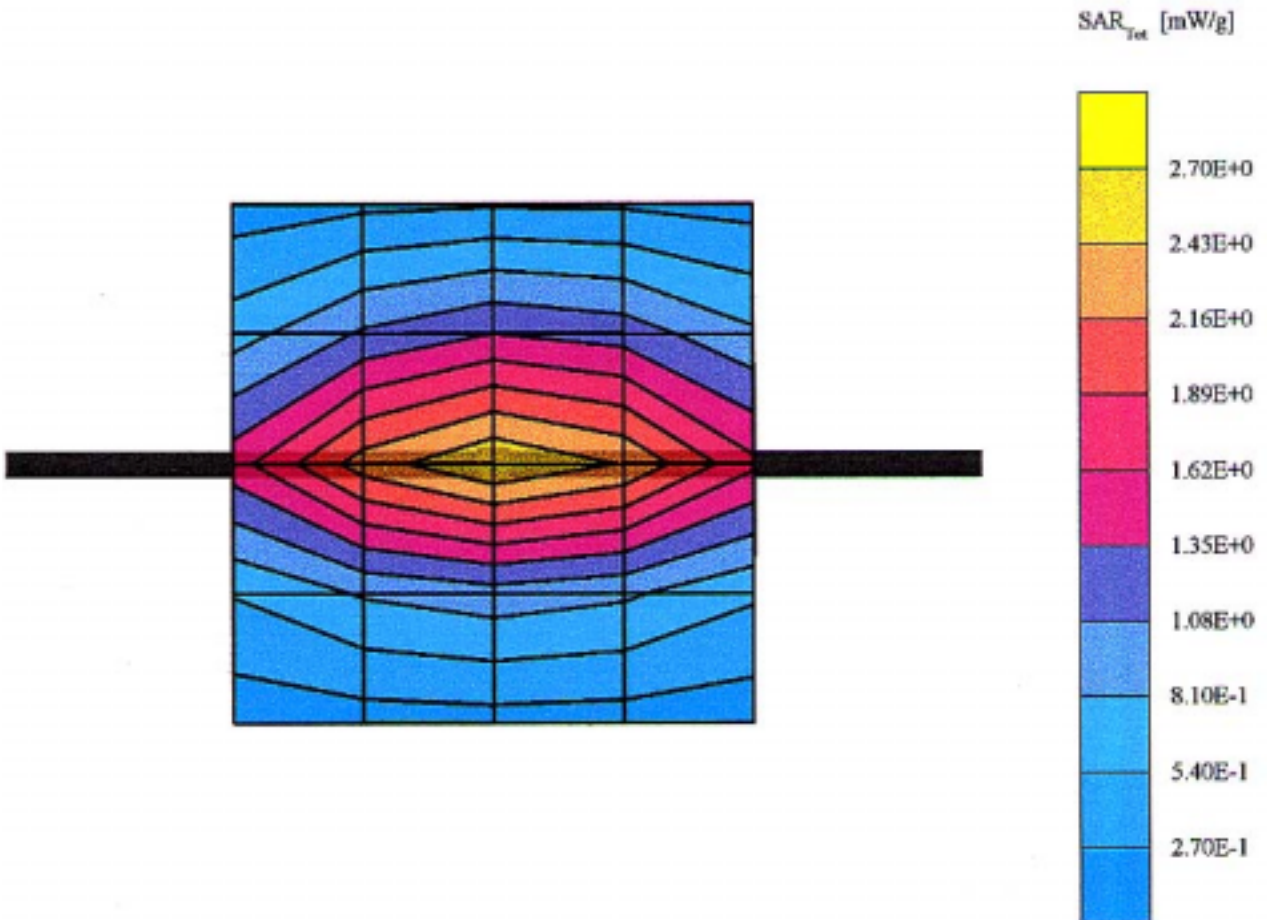
Comment :

835 MHz Brain

Dipole Validation (D835V2 / S.N: 441)

Antenna Input Power: 250 [mW]

HCT Co., Ltd. Brain Tissue Simulating Liquid





### Dipole 835 MHz

SAM TP1019 Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz

Probe: ET3DV6 - SN1608, ConvF(6.70,6.70,6.70); Crest factor: 1.0; Brain 835 MHz:  $\sigma = 0.90$  mho/m  $\epsilon_r = 41.1$   $\rho = 1.00$  g/cm<sup>3</sup>

Cubes (2): SAR (1g): 2.55 mW/g  $\pm$  0.02 dB, SAR (10g): 1.61 mW/g  $\pm$  0.02 dB,

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

Peak: 4.13 mW/g  $\pm$  0.03 dB:

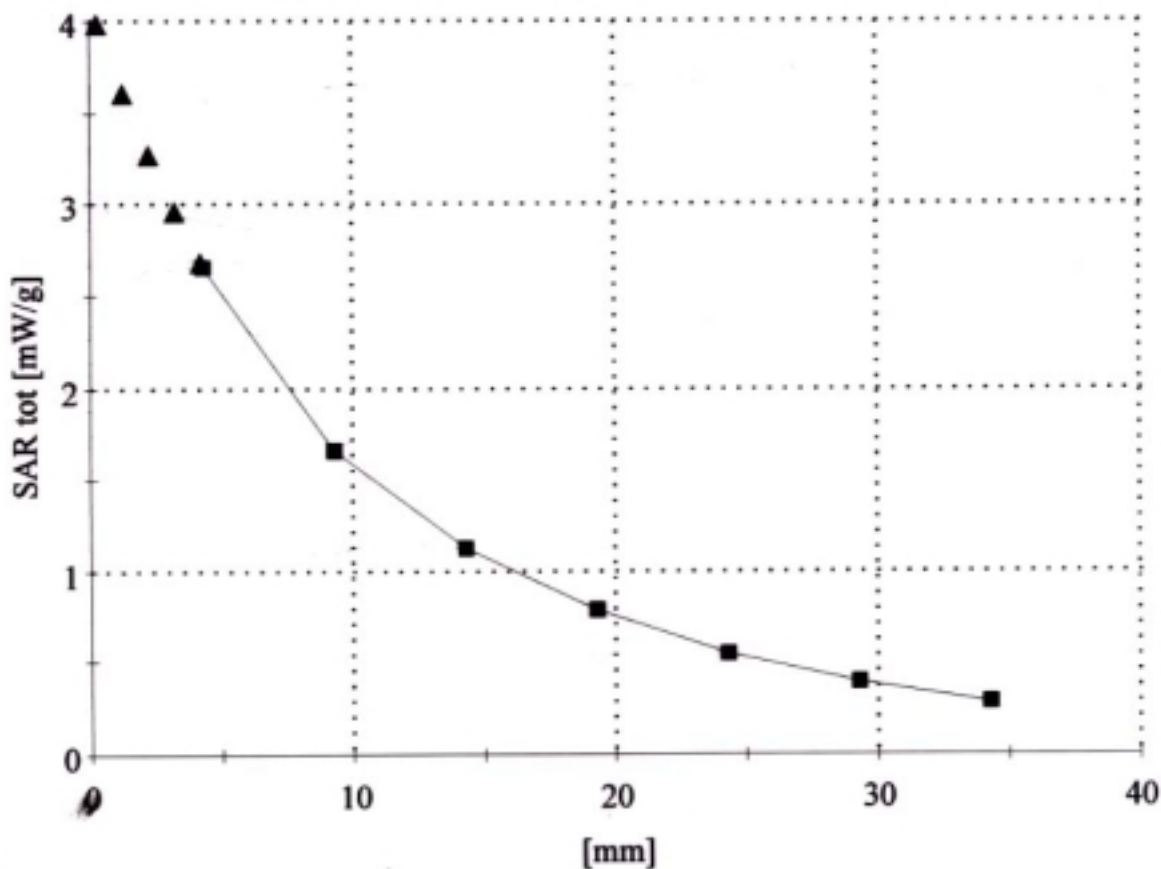
Comment :

835 MHz Brain

Dipole Validation (D835V2 / S.N: 441)

Antenna Input Power: 250 [mW]

HCT Co., Ltd. Brain Tissue Simulating Liquid



€ Dielectric Parameter (835MHz Brain)

Title

SubTitle

February 18, 2002 05:06 PM

Frequency	e'	e''
800.000000 MHz	41.6995	19.3316
805.000000 MHz	41.6693	19.3385
810.000000 MHz	41.5805	19.3450
815.000000 MHz	41.5035	19.3699
820.000000 MHz	41.4413	19.3855
825.000000 MHz	41.3106	19.3987
830.000000 MHz	41.2054	19.4210
835.000000 MHz	41.1364	19.3599
840.000000 MHz	41.0647	19.3423
845.000000 MHz	40.9852	19.3115
850.000000 MHz	40.9412	19.2559
855.000000 MHz	40.8609	19.2523
860.000000 MHz	40.8354	19.2027
865.000000 MHz	40.7807	19.1925
870.000000 MHz	40.7423	19.1830
875.000000 MHz	40.6833	19.1694
880.000000 MHz	40.6490	19.1339
885.000000 MHz	40.5937	19.1449
890.000000 MHz	40.5464	19.1287
895.000000 MHz	40.4795	19.0937
900.000000 MHz	40.4287	19.0940

€ Dielectric Parameter (835MHz Muscle)

Title

SubTitle

February 20, 2002 08:35 AM

Frequency	$e'$	$e''$
800.000000 MHz	55.2527	21.2106
805.000000 MHz	55.1293	21.1861
810.000000 MHz	55.0113	21.1715
815.000000 MHz	54.8215	21.1557
820.000000 MHz	54.6922	21.1916
825.000000 MHz	54.5531	21.1644
830.000000 MHz	54.4242	21.1899
835.000000 MHz	54.3678	21.1669
840.000000 MHz	54.3287	21.1874
845.000000 MHz	54.2901	21.1911
850.000000 MHz	54.2895	21.1914
855.000000 MHz	54.3318	21.2459
860.000000 MHz	54.3413	21.2686
865.000000 MHz	54.3738	21.2928
870.000000 MHz	54.4347	21.3053
875.000000 MHz	54.4233	21.3236
880.000000 MHz	54.4240	21.3155
885.000000 MHz	54.4539	21.2852
890.000000 MHz	54.4024	21.2760
895.000000 MHz	54.3613	21.2102
900.000000 MHz	54.2827	21.1809