

## 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; Head 835 MHz:  $\sigma = 0.88 \text{ mho/m}$ ,  $\epsilon_r = 42.0$ ,  $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7; SAR (1g): 9.96 mW/g, SAR (10g): 6.45 mW/g

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

Powerdrift: 0.02 dB

Comment :

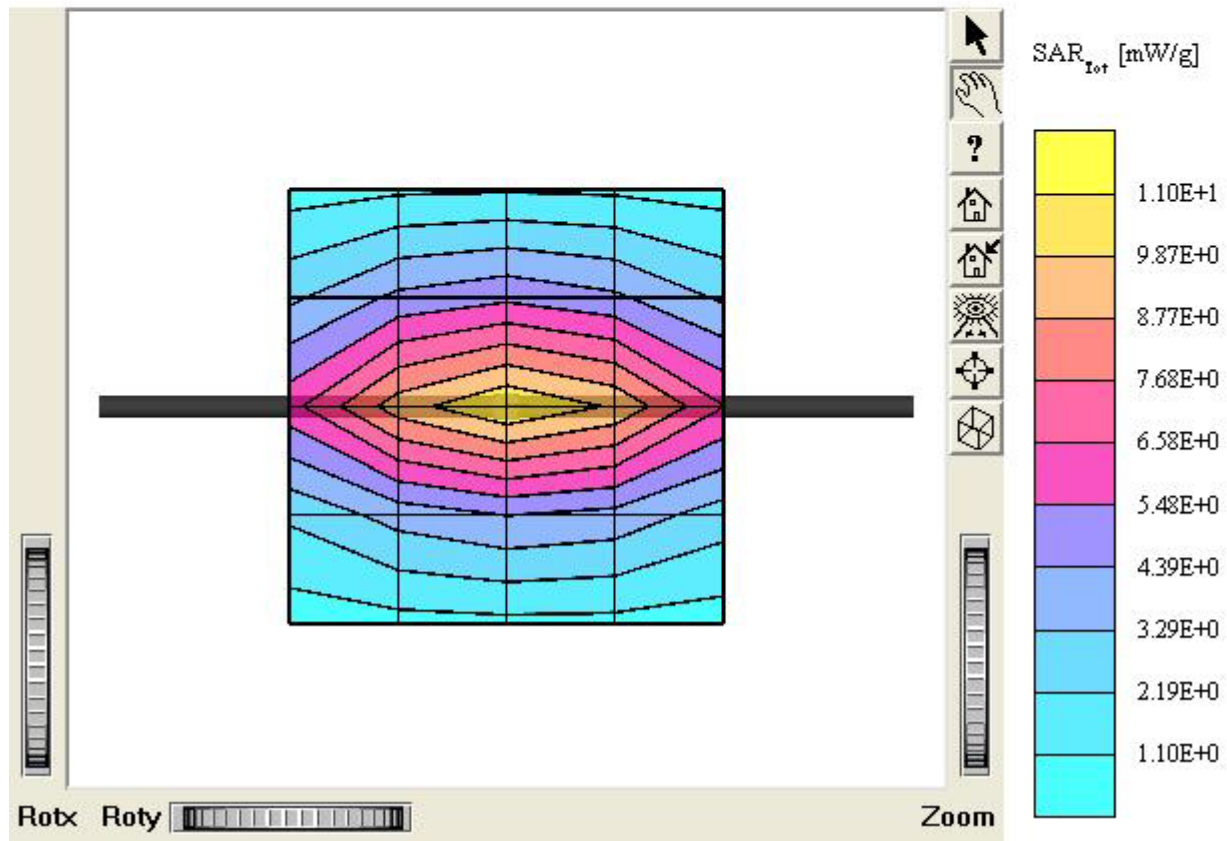
835MHz Brain Dipole Validation (D835V2/ S.N: 441)

Antenna Input Power : 30 dBm (1W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.4 °C

Date Tested : June 09, 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; Head 835 MHz:  $\sigma = 0.88 \text{ mho/m}$   $\epsilon_r = 42.0$   $\rho = 1.00 \text{ g/cm}^3$

:

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

### Comment :

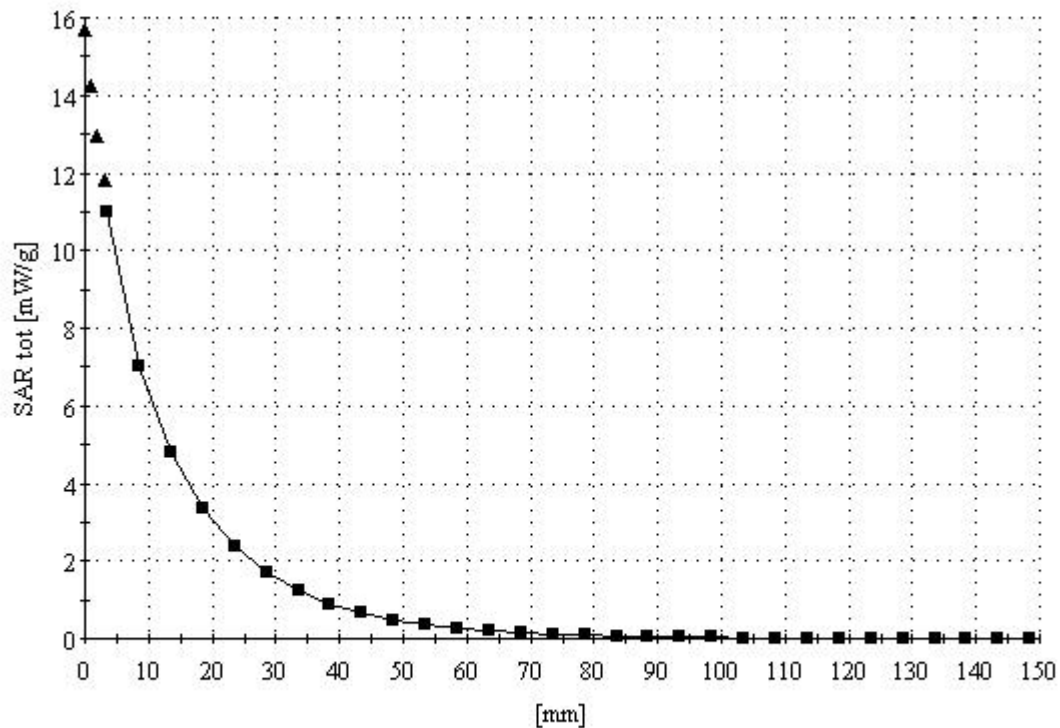
835MHz Brain Dipole Validation (D835V2/ S.N: 441)

Antenna Input Power : 30 dBm (1W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature : 21.4 °C

Date Tested : June 09, 2005



■ Dielectric Parameter (835MHz Head)

**Title : AXW-P830**

**SubTitle : CDMA HEAD**

June 09, 2005 09:51 AM

Frequency	$e'$	$e''$
800.000000 MHz	42.6162	19.0604
805.000000 MHz	42.5391	19.0735
810.000000 MHz	42.4432	19.0920
815.000000 MHz	42.3532	19.0875
820.000000 MHz	42.2645	19.0830
825.000000 MHz	42.1815	19.0560
830.000000 MHz	42.0912	19.0738
835.000000 MHz	41.9522	19.0635
840.000000 MHz	41.8774	19.0147
845.000000 MHz	41.7637	19.0089
850.000000 MHz	41.7171	19.0154
855.000000 MHz	41.6551	18.9646
860.000000 MHz	41.5846	18.9887
865.000000 MHz	41.5153	19.0125
870.000000 MHz	41.4521	18.9836
875.000000 MHz	41.3592	18.9537
880.000000 MHz	41.3624	18.9214
885.000000 MHz	41.2441	18.9351
890.000000 MHz	41.1829	18.9173
895.000000 MHz	41.1399	18.8745
900.000000 MHz	41.1122	18.8474



■ Dielectric Parameter (835MHz Body)

**Title : AWX-P830**

**SubTitle : CDMA BODY**

June 09, 2005 01:36 PM

Frequency	e'	e''
800.000000 MHz	53.5976	20.6469
805.000000 MHz	53.5549	20.6415
810.000000 MHz	53.5332	20.6287
815.000000 MHz	53.4621	20.5999
820.000000 MHz	53.4636	20.5846
825.000000 MHz	53.3938	20.6002
830.000000 MHz	53.3556	20.5770
<b>835.000000 MHz</b>	<b>53.3354</b>	<b>20.5858</b>
840.000000 MHz	53.2801	20.5853
845.000000 MHz	53.2485	20.5872
850.000000 MHz	53.2178	20.5886
855.000000 MHz	53.1800	20.5387
860.000000 MHz	53.1733	20.5421
865.000000 MHz	53.1310	20.5050
870.000000 MHz	53.0989	20.5497
875.000000 MHz	53.0100	20.4828
880.000000 MHz	52.9180	20.5025
885.000000 MHz	52.8644	20.4394
890.000000 MHz	52.8063	20.4310
895.000000 MHz	52.7646	20.3540
900.000000 MHz	52.6583	20.3234