

## 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:  $\sigma = 0.89$  mho/m  $\epsilon_r = 41.0$   $\rho = 1.00$  g/cm<sup>3</sup>

Cubes (2): SAR (1g): 9.88 mW/g  $\pm 0.03$  dB, SAR (10g): 6.30 mW/g  $\pm 0.02$  dB

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

Powerdrift: 0.02 dB

Comment:

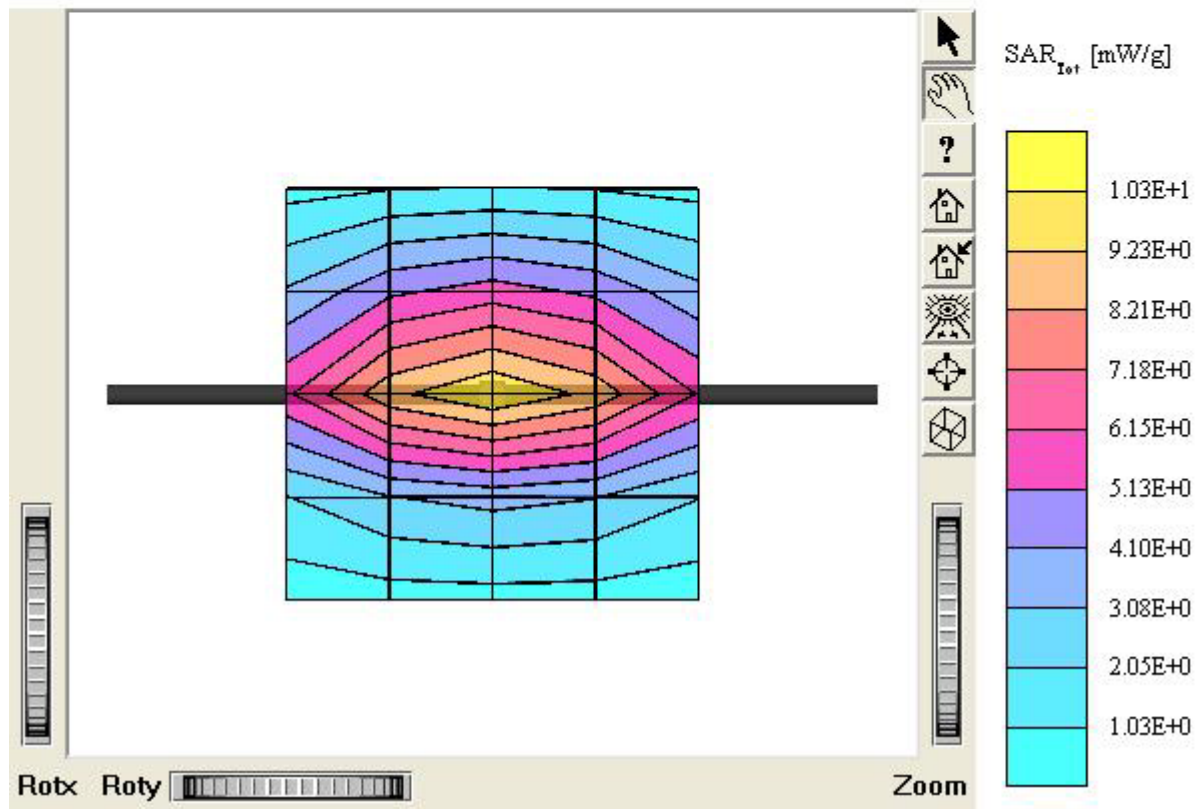
835MHz Brain Dipole Validation (D835V2/ S.N: 441)

Antenna Input Power: 30 dBm (1W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.7 °C

Date Tested: April 14, 2005



## 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:  $\sigma = 0.88 \text{ mho/m}$ ,  $\epsilon_r = 41.9$ ,  $\rho = 1.00 \text{ g/cm}^3$

Cubes (2): SAR (1g):  $9.92 \text{ mW/g} \pm 0.03 \text{ dB}$ , SAR (10g):  $6.32 \text{ mW/g} \pm 0.02 \text{ dB}$

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

Powerdrift: 0.02 dB

Comment:

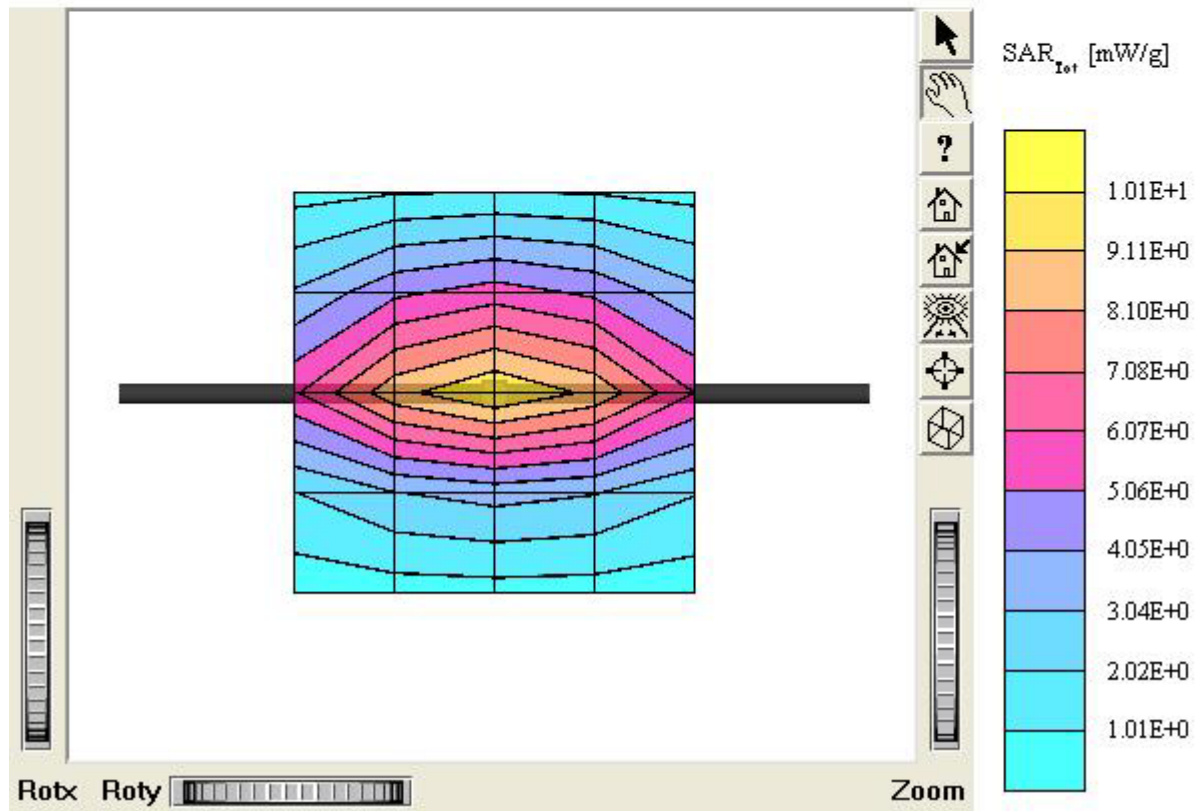
835MHz Brain Dipole Validation (D835V2/ S.N: 441)

Antenna Input Power: 30 dBm (1W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.4 °C

Date Tested: April 15, 2005



## Validation Data (1900MHz Head)

### Dipole 1900 MHz

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

Probe: ET3DV6 - SN1609; ConvF(5.34,5.34,5.34); Crest factor: 1.0; Head 1900 MHz:  $\sigma = 1.44 \text{ mho/m}$   $\epsilon_r = 38.7 \rho = 1.00 \text{ g/cm}^3$

Cubes (2): SAR (1g): 42.0 mW/g  $\pm 0.01 \text{ dB}$ , SAR (10g): 21.1 mW/g  $\pm 0.01 \text{ dB}$

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

Powerdrift: 0.00 dB

Comment:

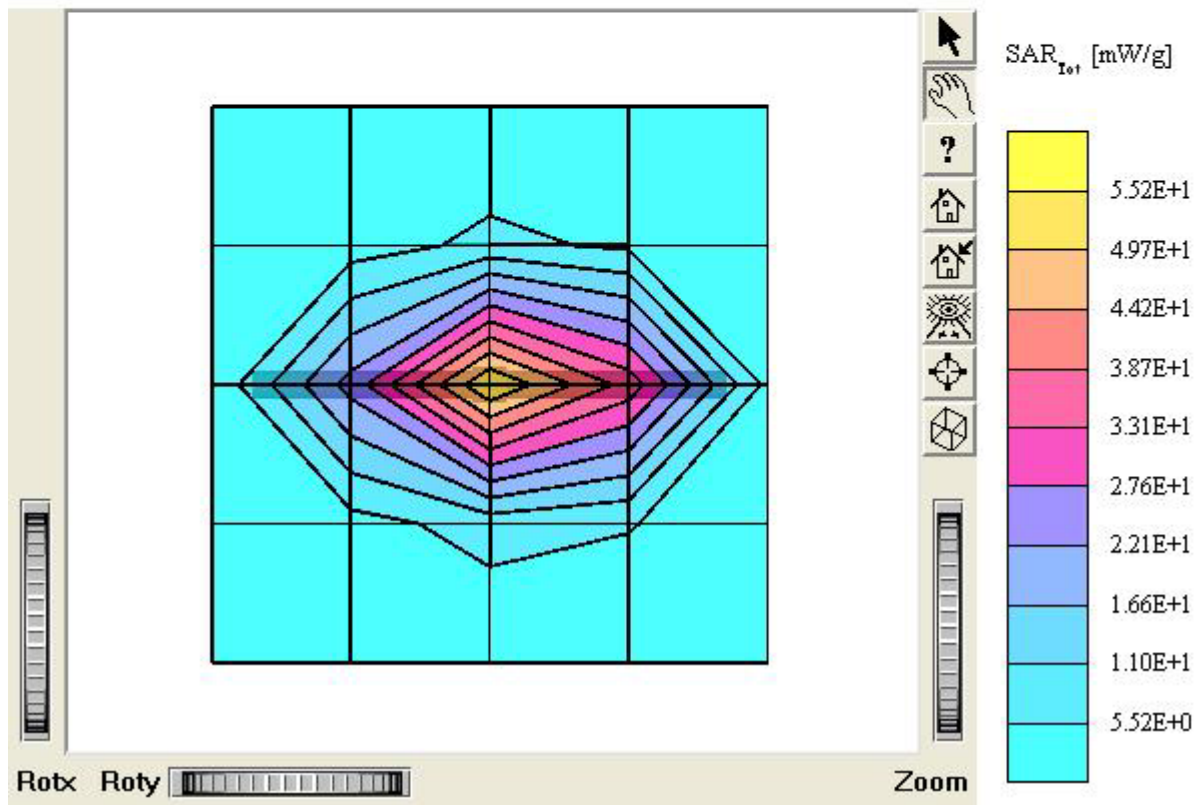
1900MHz Brain Dipole Validation (D1900V2/ S.N: 5d032)

Antenna Input Power: 30 dBm (1W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.7 °C

Date Tested: April 16, 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:  $\sigma = 0.89 \text{ mho/m}$   $\epsilon_r = 41.0$   $\rho = 1.00 \text{ g/cm}^3$

:

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

### Comment:

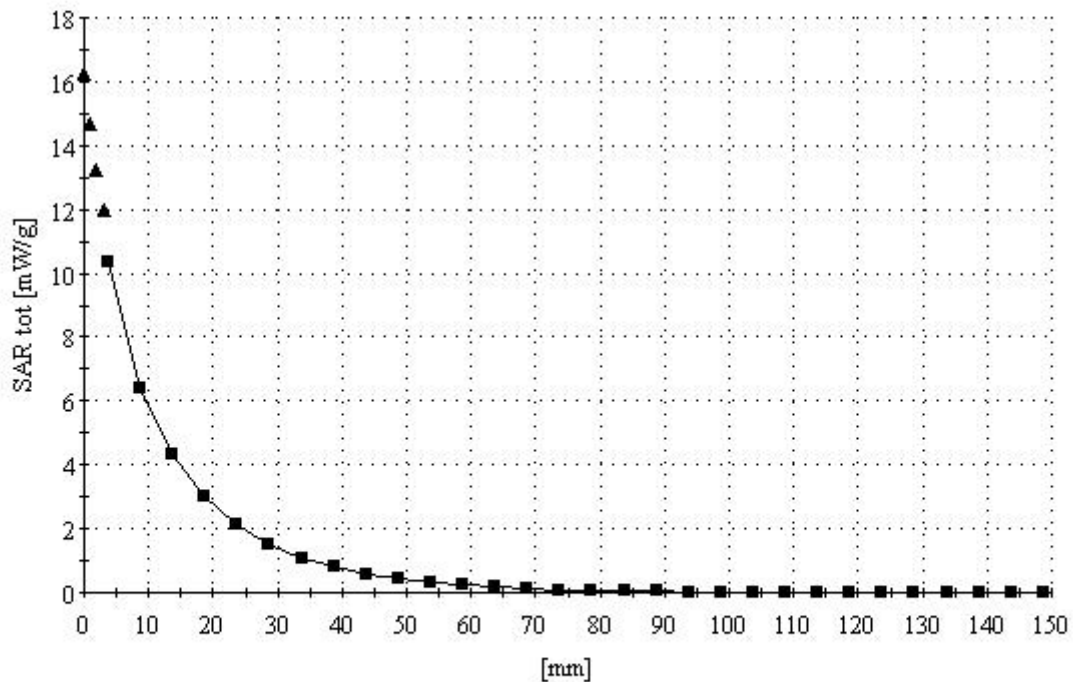
835MHz Brain Dipole Validation (D835V2/ S.N: 441)

Antenna Input Power: 30 dBm (1W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.7 °C

Date Tested: April 14, 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:  $\sigma = 0.88 \text{ mho/m}$   $\epsilon_r = 41.9$   $\rho = 1.00 \text{ g/cm}^3$

:

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

Comment:

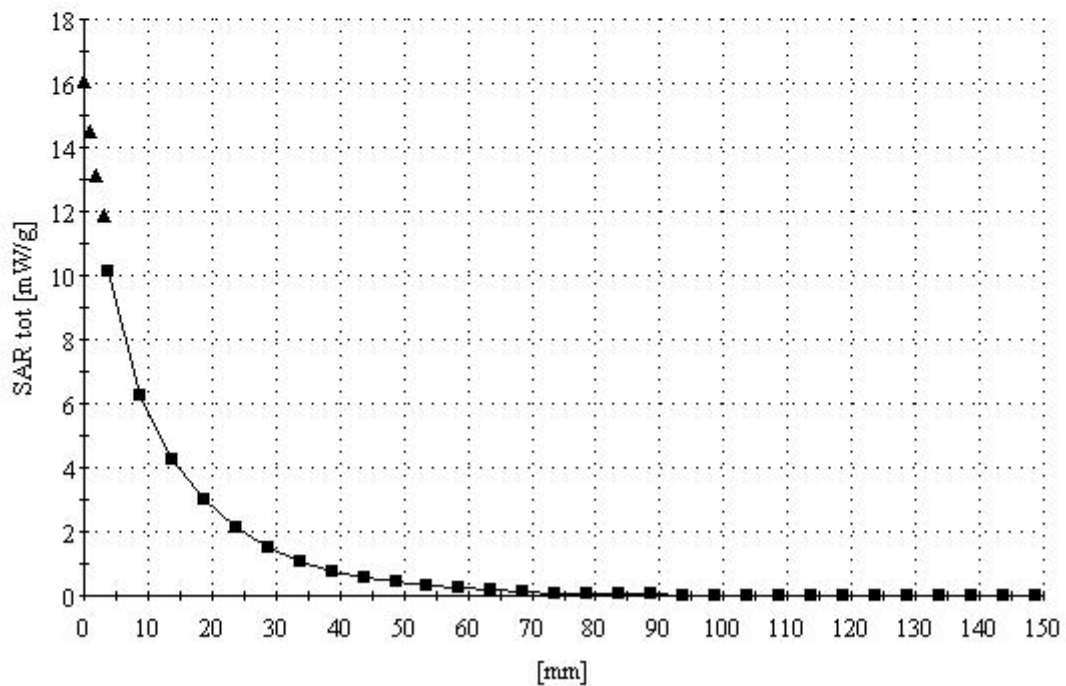
835MHz Brain Dipole Validation (D835V2/ S.N: 441)

Antenna Input Power: 30 dBm (1W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.4 °C

Date Tested: April 15, 2005





## Dipole 1900 MHz

SAM II Phantom; Section; Position: ; Frequency: 1900 MHz

Probe: ET3DV6 - SN1609; ConvF(5.34,5.34,5.34); Crest factor: 1.0; Head 1900 MHz:  $\sigma = 1.44 \text{ mho/m}$   $\epsilon_r = 38.7$   $\rho = 1.00 \text{ g/cm}^3$

.

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

### Comment:

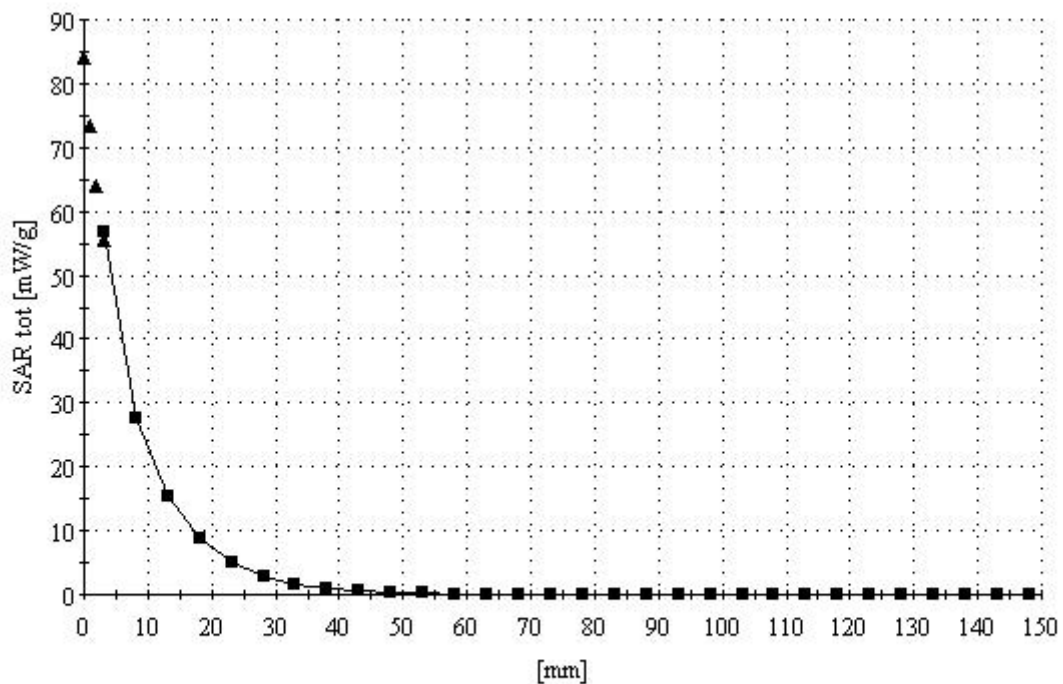
1900MHz Brain Dipole Validation (D1900V2/ S.N: 5d032)

Antenna Input Power: 30 dBm (1W)

HCT Co., Ltd. Brain Tissue Simulating Liquid

Liquid Temperature: 21.7 °C

Date Tested: April 16, 2005



■ Dielectric Parameter (835MHz Head)

**Title : KTFT-UX200**

**SubTitle : AMPS Head**

April 14, 2005 09:22 AM

Frequency	e'	e''
800.000000 MHz	41.8158	19.2785
805.000000 MHz	41.6469	19.2958
810.000000 MHz	41.4456	19.3439
815.000000 MHz	41.5080	19.0527
820.000000 MHz	41.3721	19.1326
825.000000 MHz	41.2813	19.0409
830.000000 MHz	41.1960	19.0806
835.000000 MHz	41.0232	19.1970
840.000000 MHz	41.0848	18.9450
845.000000 MHz	40.9686	18.8797
850.000000 MHz	40.9202	18.9411
855.000000 MHz	40.9016	18.9217
860.000000 MHz	40.7045	19.0655
865.000000 MHz	40.7326	18.8799
870.000000 MHz	40.6921	18.9182
875.000000 MHz	40.6084	18.9080
880.000000 MHz	40.5457	18.9323
885.000000 MHz	40.3489	18.9903
890.000000 MHz	40.3132	19.0119
895.000000 MHz	40.2756	18.8704
900.000000 MHz	40.2252	18.9213

■ Dielectric Parameter (835MHz Head)

**Title : KTFT-UX200**

**SubTitle : CDMA Head**

April 15, 2005 09:15 AM

Frequency	e'	e''
800.000000 MHz	42.5701	19.0513
805.000000 MHz	42.4849	19.0344
810.000000 MHz	42.4021	19.0603
815.000000 MHz	42.2984	19.0063
820.000000 MHz	42.2375	19.0052
825.000000 MHz	42.1213	19.0304
830.000000 MHz	42.0245	18.9870
<b>835.000000 MHz</b>	<b>41.8996</b>	<b>19.0258</b>
840.000000 MHz	41.8014	19.0049
845.000000 MHz	41.7431	18.9731
850.000000 MHz	41.7062	18.9771
855.000000 MHz	41.5830	18.9647
860.000000 MHz	41.5737	18.9508
865.000000 MHz	41.4597	18.9265
870.000000 MHz	41.4049	18.9261
875.000000 MHz	41.3138	18.9366
880.000000 MHz	41.3069	18.8521
885.000000 MHz	41.1988	18.8833
890.000000 MHz	41.1024	18.8812
895.000000 MHz	41.0635	18.8177
900.000000 MHz	41.0106	18.8382



■ Dielectric Parameter (1900MHz Head)

**Title : KTFT-UX200**

**SubTitle : PCS Head**

April 16, 2005 08:34 AM

Frequency	e'	e''
1.800000000 GHz	38.9682	13.4390
1.810000000 GHz	38.9850	13.4979
1.820000000 GHz	38.9321	13.4836
1.830000000 GHz	38.9494	13.5444
1.840000000 GHz	38.9115	13.5663
1.850000000 GHz	38.9030	13.6002
1.860000000 GHz	38.8742	13.6284
1.870000000 GHz	38.8185	13.6107
1.880000000 GHz	38.7732	13.6612
1.890000000 GHz	38.7151	13.6604
1.900000000 GHz	38.6961	13.6682
1.910000000 GHz	38.6356	13.6931
1.920000000 GHz	38.6021	13.7308
1.930000000 GHz	38.5663	13.7259
1.940000000 GHz	38.5865	13.7707
1.950000000 GHz	38.5397	13.8051
1.960000000 GHz	38.5638	13.8526
1.970000000 GHz	38.5265	13.9072
1.980000000 GHz	38.4668	13.9385
1.990000000 GHz	38.4177	13.9573
2.000000000 GHz	38.3862	13.9215

■ Dielectric Parameter (835MHz Body)

**Title : KTFT-UX200**

**SubTitle : AMPS Body**

April 14, 2005 02:46 PM

Frequency	e'	e''
800.000000 MHz	54.5025	20.8967
805.000000 MHz	54.3774	20.8597
810.000000 MHz	54.3169	20.9356
815.000000 MHz	54.2221	20.9112
820.000000 MHz	54.1642	20.9075
825.000000 MHz	54.0665	20.9128
830.000000 MHz	53.9734	20.9721
<b>835.000000 MHz</b>	<b>53.8722</b>	<b>20.9736</b>
840.000000 MHz	53.7654	20.9555
845.000000 MHz	53.7276	20.9127
850.000000 MHz	53.6166	20.8757
855.000000 MHz	53.6696	20.8973
860.000000 MHz	53.6435	20.8509
865.000000 MHz	53.5760	20.8632
870.000000 MHz	53.5364	20.8331
875.000000 MHz	53.5432	20.8387
880.000000 MHz	53.5389	20.8271
885.000000 MHz	53.5018	20.8385
890.000000 MHz	53.5307	20.8138
895.000000 MHz	53.4967	20.7609
900.000000 MHz	53.4377	20.7495



■ Dielectric Parameter (835MHz Body)

**Title : KTFT-UX200**

**SubTitle : CDMA Body**

**April 18, 2005 02:45 PM**

Frequency	e'	e''
800.000000 MHz	54.3079	21.2158
805.000000 MHz	54.2245	21.1631
810.000000 MHz	54.2010	21.1799
815.000000 MHz	54.1541	21.1600
820.000000 MHz	54.1212	21.1911
825.000000 MHz	54.0478	21.1531
830.000000 MHz	53.9431	21.1935
<b>835.000000 MHz</b>	<b>53.9299</b>	<b>21.1619</b>
840.000000 MHz	53.8073	21.1597
845.000000 MHz	53.7838	21.1542
850.000000 MHz	53.6537	21.1229
855.000000 MHz	53.6536	21.0874
860.000000 MHz	53.5997	21.0506
865.000000 MHz	53.5255	21.0433
870.000000 MHz	53.4678	21.0194
875.000000 MHz	53.4430	20.9673
880.000000 MHz	53.4191	20.9577
885.000000 MHz	53.3081	20.9393
890.000000 MHz	53.3012	20.9550
895.000000 MHz	53.2761	20.8675
900.000000 MHz	53.1891	20.8881

■ Dielectric Parameter (1900MHz Body)

**Title : KTFT-UX200**

**SubTitle : PCS Body**

April 16, 2005 02:13 PM

Frequency	e'	e''
1.800000000 GHz	51.1297	13.2151
1.810000000 GHz	51.0634	13.3531
1.820000000 GHz	51.0366	13.5181
1.830000000 GHz	50.9988	13.6748
1.840000000 GHz	51.0415	13.8023
1.850000000 GHz	51.0805	13.8974
1.860000000 GHz	51.0729	13.9473
1.870000000 GHz	51.0734	13.9549
1.880000000 GHz	51.0131	13.9273
1.890000000 GHz	50.9164	13.8723
<b>1.900000000 GHz</b>	<b>50.8190</b>	<b>13.8192</b>
1.910000000 GHz	50.7206	13.8275
1.920000000 GHz	50.6266	13.8782
1.930000000 GHz	50.5807	13.9811
1.940000000 GHz	50.5327	14.1142
1.950000000 GHz	50.5656	14.2451
1.960000000 GHz	50.5670	14.4079
1.970000000 GHz	50.5731	14.5069
1.980000000 GHz	50.6018	14.5433
1.990000000 GHz	50.5880	14.5694
2.000000000 GHz	50.5593	14.5358