

APPENDIX D – DIPOLE VALIDATION PLOTS

Test Laboratory: HCT CO., LTD

Liquid Temp: 21.2

Test Date: Dec.17, 2007

DUT: Dipole 450 MHz; Serial: D450V2 - SN:1007

Communication System: CW; Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450$ MHz; $\sigma = 0.886$ mho/m; $\epsilon_r = 45$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(7.02, 7.02, 7.02); Calibrated: 2007-02-21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: SAM 835/900 MHz; Type: SAM

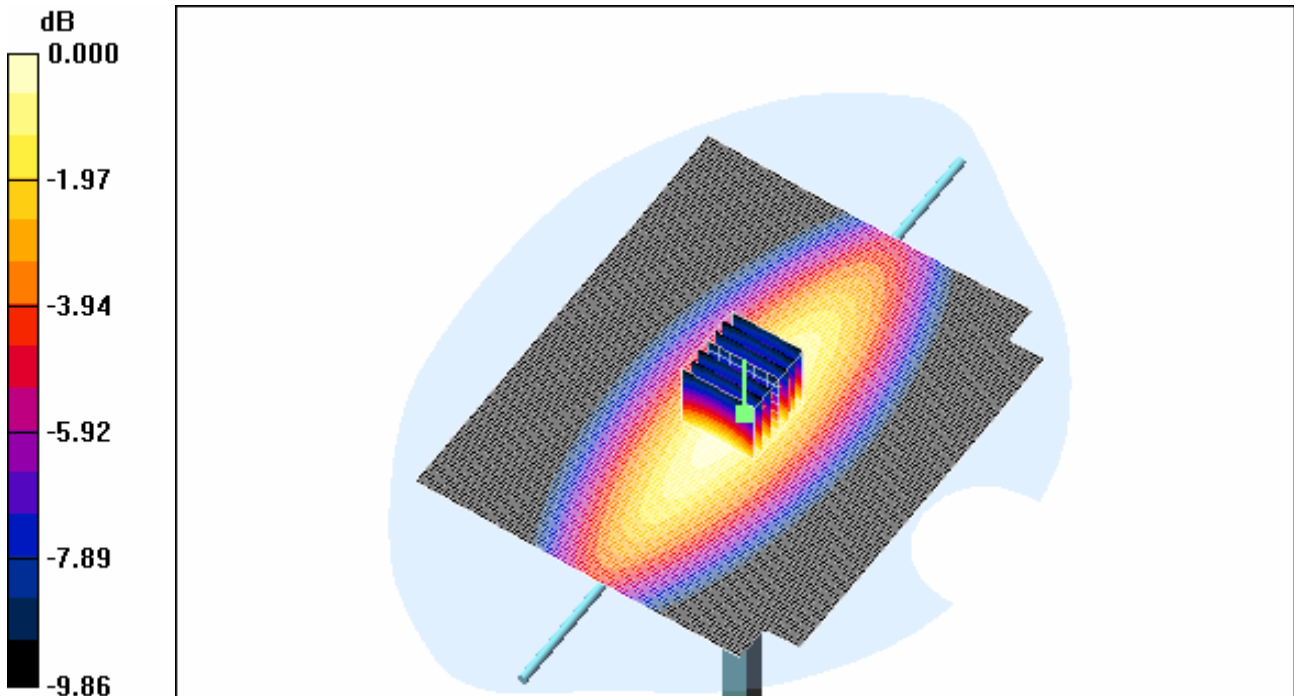
Validatoin 450 MHz/Area Scan (101x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 5.59 mW/g**Validatoin 450 MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 80.9 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 8.45 W/kg

SAR(1 g) = 5.29 mW/g; SAR(10 g) = 3.47 mW/g

Maximum value of SAR (measured) = 5.68 mW/g



0 dB = 5.68mW/g

Title : LXT460**SubTitle : 450MHz Head**

December 17, 2007 09:35 AM

Frequency	e'	e''
400.000000 MHz	46.4400	37.9204
405.000000 MHz	46.3455	37.6712
410.000000 MHz	46.0968	37.3382
415.000000 MHz	46.1226	37.1753
420.000000 MHz	45.8365	36.8124
425.000000 MHz	45.7685	36.6039
430.000000 MHz	45.5373	36.3470
435.000000 MHz	45.3978	36.0240
440.000000 MHz	45.2720	35.7735
445.000000 MHz	45.0656	35.5987
450.000000 MHz	44.9884	35.3795
455.000000 MHz	44.8502	35.1189
460.000000 MHz	44.7060	34.9205
465.000000 MHz	44.6708	34.6996
470.000000 MHz	44.5810	34.4740
475.000000 MHz	44.4661	34.3020
480.000000 MHz	44.5093	34.1071
485.000000 MHz	44.2389	33.9338
490.000000 MHz	44.2900	33.6749
495.000000 MHz	44.2297	33.5777
500.000000 MHz	44.1911	33.3504

Title : LXT460**SubTitle : 450MHz Body**

December 17, 2007 10:00 AM

Frequency	e'	e''
400.000000 MHz	55.3480	40.0544
405.000000 MHz	55.1323	39.7079
410.000000 MHz	55.0368	39.3696
415.000000 MHz	55.0402	39.0005
420.000000 MHz	54.8643	38.7124
425.000000 MHz	54.8510	38.5222
430.000000 MHz	54.6778	38.3256
435.000000 MHz	54.4309	38.0295
440.000000 MHz	54.3477	37.7489
445.000000 MHz	54.3637	37.4745
450.000000 MHz	54.1442	37.2698
455.000000 MHz	54.1631	37.0995
460.000000 MHz	54.0024	36.8737
465.000000 MHz	53.8762	36.6647
470.000000 MHz	53.8682	36.5285
475.000000 MHz	53.7931	36.3718
480.000000 MHz	53.6870	36.0981
485.000000 MHz	53.7011	35.9660
490.000000 MHz	53.5836	35.8811
495.000000 MHz	53.5315	35.5912
500.000000 MHz	53.4222	35.4404