

APPENDIX D – DIPOLE VALIDATION PLOTS

Test Laboratory: HCT CO., LTD

Liquid Temp: 21.2

Test Date: Dec.19, 2007

DUT: Dipole 450 MHz; Type: D450V2; Serial: D450V2 – SN:1007

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

Medium parameters used: $f = 450$ MHz; $\sigma = 0.895$ mho/m; $\epsilon_r = 45.1$; $\rho = 1000$ kg/m³

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

DASY4 Configuration:

- Probe: ET3DV6 – SN1609; ConvF(7.25, 7.25, 7.25); Calibrated: 2007-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: SAM 835/900 MHz; Type: SAM

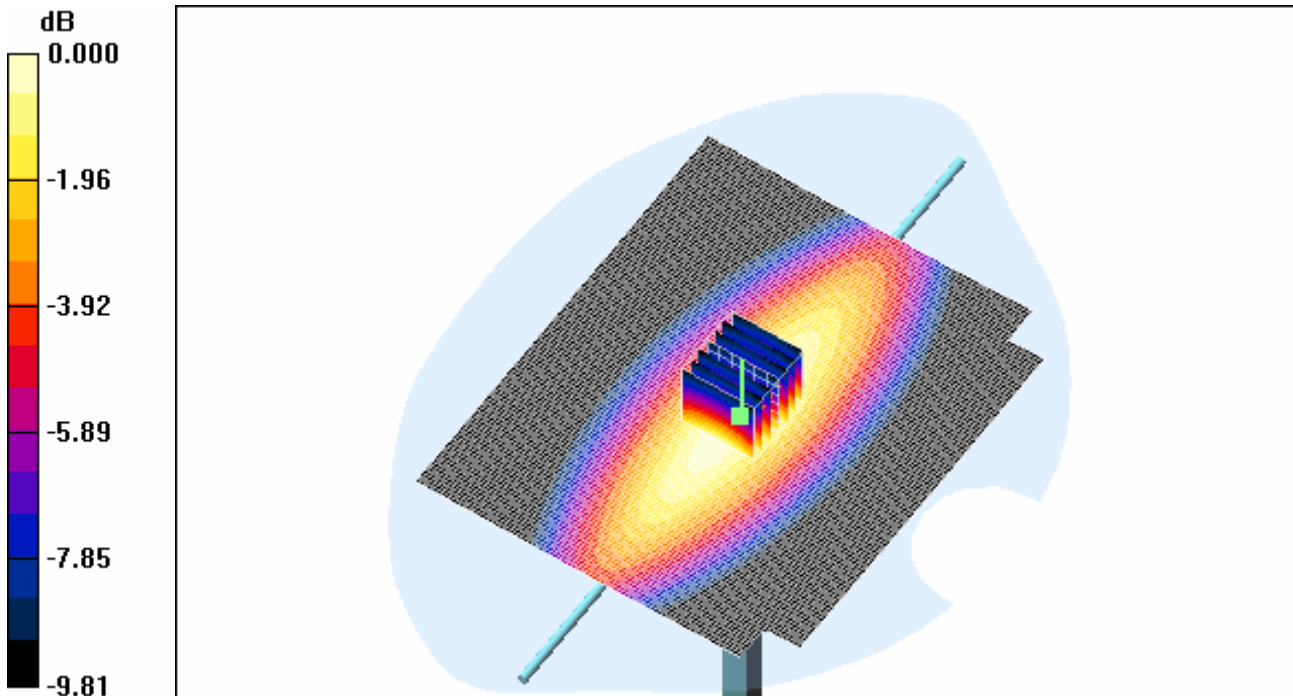
Validatoin 450 MHz/Area Scan (101x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 5.38 mW/g**Validatoin 450 MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 78.4 V/m; Power Drift = -0.017 dB

Peak SAR (extrapolated) = 8.03 W/kg

SAR(1 g) = 5.03 mW/g; SAR(10 g) = 3.32 mW/g

Maximum value of SAR (measured) = 5.40 mW/g



0 dB = 5.40mW/g

Title : LXT110**SubTitle : 450MHz Head**

December 19, 2007 09:00 AM

Frequency	e'	e''
400.000000 MHz	46.6243	38.3136
405.000000 MHz	46.4921	38.0961
410.000000 MHz	46.3316	37.8062
415.000000 MHz	46.2136	37.5069
420.000000 MHz	46.1292	37.1492
425.000000 MHz	45.8479	36.9892
430.000000 MHz	45.7519	36.5887
435.000000 MHz	45.5832	36.4616
440.000000 MHz	45.4174	36.1449
445.000000 MHz	45.3195	35.9962
450.000000 MHz	45.1394	35.7322
455.000000 MHz	45.0545	35.4588
460.000000 MHz	44.8728	35.2626
465.000000 MHz	44.8556	35.0439
470.000000 MHz	44.7440	34.8543
475.000000 MHz	44.6438	34.6130
480.000000 MHz	44.6830	34.3974
485.000000 MHz	44.3969	34.2412
490.000000 MHz	44.4219	34.0357
495.000000 MHz	44.3937	33.8256
500.000000 MHz	44.3357	33.7359

Title : LXT110**SubTitle : 450MHz Body**

December 19, 2007 10:11 AM

Frequency	e'	e''
400.000000 MHz	55.5665	40.5698
405.000000 MHz	55.4248	40.2878
410.000000 MHz	55.2757	39.8889
415.000000 MHz	55.3591	39.6221
420.000000 MHz	55.0710	39.2855
425.000000 MHz	55.0212	39.1154
430.000000 MHz	54.9135	38.8399
435.000000 MHz	54.6337	38.5833
440.000000 MHz	54.4846	38.3673
445.000000 MHz	54.4782	38.0710
450.000000 MHz	54.1856	37.6826
455.000000 MHz	54.2411	37.5958
460.000000 MHz	54.0552	37.3323
465.000000 MHz	53.9470	37.1151
470.000000 MHz	54.0118	36.8770
475.000000 MHz	53.8958	36.7887
480.000000 MHz	53.7653	36.5699
485.000000 MHz	53.8519	36.4363
490.000000 MHz	53.6486	36.3646
495.000000 MHz	53.5391	36.0468
500.000000 MHz	53.5615	35.9339