

APPENDIX D – DIPOLE VALIDATION PLOTS

Test Laboratory: HCT CO., LTD

Liquid Temp: 21.2

Test Date: Dec.17, 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; $\sigma = 0.893$ 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

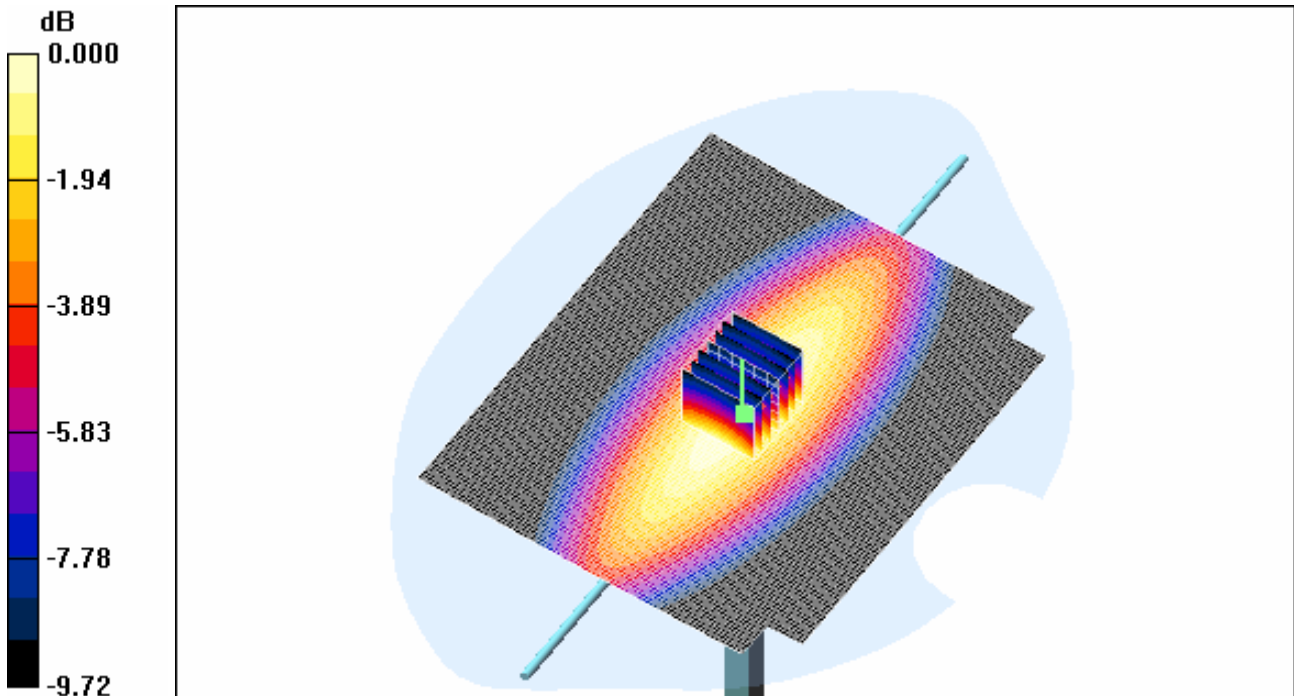
Validatoin 450 MHz/Area Scan (101x121x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 5.31 mW/g**Validatoin 450 MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 78.5 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 7.94 W/kg

SAR(1 g) = 5.02 mW/g; SAR(10 g) = 3.31 mW/g

Maximum value of SAR (measured) = 5.34 mW/g



0 dB = 5.34mW/g

Title :LXT340

SubTitle :450MHz Head

December 18, 2007 10:05 AM

Frequency	e'	e''
400.000000 MHz	46.6357	38.2488
405.000000 MHz	46.4580	38.0076
410.000000 MHz	46.3456	37.7630
415.000000 MHz	46.2594	37.5406
420.000000 MHz	46.1519	37.1658
425.000000 MHz	45.9031	36.9607
430.000000 MHz	45.6721	36.5815
435.000000 MHz	45.5742	36.4046
440.000000 MHz	45.4085	36.0886
445.000000 MHz	45.3046	35.9033
450.000000 MHz	45.1092	35.6616
455.000000 MHz	45.0305	35.4254
460.000000 MHz	44.9268	35.2538
465.000000 MHz	44.8319	35.0113
470.000000 MHz	44.8057	34.7896
475.000000 MHz	44.6322	34.6508
480.000000 MHz	44.6741	34.3456
485.000000 MHz	44.4311	34.2353
490.000000 MHz	44.4470	33.9790
495.000000 MHz	44.3967	33.8424
500.000000 MHz	44.3255	33.6777

Title : LXT340

SubTitle : 450MHz Body

December 18, 2007 09:03 AM

Frequency	e'	e''
400.000000 MHz	56.5090	41.4276
405.000000 MHz	56.3467	41.0726
410.000000 MHz	56.4504	40.7823
415.000000 MHz	56.3679	40.4487
420.000000 MHz	56.2435	40.2123
425.000000 MHz	56.2473	39.8356
430.000000 MHz	56.2909	39.6190
435.000000 MHz	56.2089	39.3710
440.000000 MHz	56.0959	39.0558
445.000000 MHz	55.9971	38.8029
450.000000 MHz	55.9437	38.5271
455.000000 MHz	55.9140	38.1758
460.000000 MHz	55.7664	37.9871
465.000000 MHz	55.7297	37.6867
470.000000 MHz	55.5293	37.3980
475.000000 MHz	55.3620	37.1639
480.000000 MHz	55.2070	36.8870
485.000000 MHz	55.1342	36.5627
490.000000 MHz	55.0424	36.3554
495.000000 MHz	54.9436	36.1888
500.000000 MHz	54.7375	35.9614