

APPENDIX D – DIPOLE VALIDATION PLOTS

Test Laboratory: HCT

450 Dipole Validation test: Input power(1W)
Liquid Temperature : 21.6°C
Date Tested : January 24, 2007

DUT: Dipole 450 MHz; Type: D450V2; Serial: D450V2 - SN:1007
Program Name: Validation 450 MHz

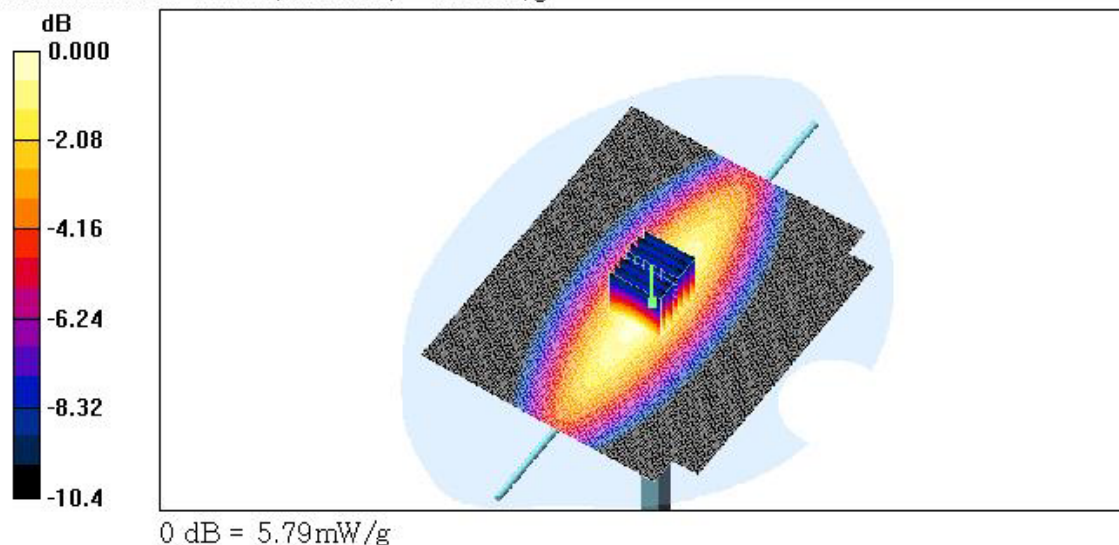
Communication System: CW; Frequency: 450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 450$ MHz; $\sigma = 0.847$ mho/m; $\epsilon_r = 45.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1609; ConvF(6.82, 6.82, 6.82); Calibrated: 2006-03-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2006-11-15
- Phantom: SAM 1800/1900 MHz; Type: SAM

Validatoin 450 MHz/Area Scan (101x121x1): Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (interpolated) = 5.77 mW/g

Validatoin 450 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 85.5 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 8.39 W/kg
SAR(1 g) = 5.31 mW/g; SAR(10 g) = 3.38 mW/g
Maximum value of SAR (measured) = 5.79 mW/g



Title : GXT750

SubTitle : 450MHz(HEAD)

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Frequency	e'	e''
400.000000 MHz	47.2516	36.7506
405.000000 MHz	46.8703	36.2658
410.000000 MHz	46.8400	35.9552
415.000000 MHz	46.6316	35.5375
420.000000 MHz	46.2925	35.2202
425.000000 MHz	46.1899	34.8549
430.000000 MHz	45.9614	34.6741
435.000000 MHz	45.7773	34.3751
440.000000 MHz	45.7184	34.1206
445.000000 MHz	45.6733	33.9449
450.000000 MHz	45.5840	33.8363
455.000000 MHz	45.4369	33.9254
460.000000 MHz	45.4017	33.7743
465.000000 MHz	45.3829	33.7144
470.000000 MHz	45.2983	33.6849
475.000000 MHz	45.2567	33.5774
480.000000 MHz	45.2286	33.5406
485.000000 MHz	45.1674	33.4049
490.000000 MHz	45.1190	33.2348
495.000000 MHz	45.0859	33.0480
500.000000 MHz	45.0356	32.9530

Title : GXT750

SubTitle : 450MHz(BODY)

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Frequency	e'	e''
400.000000 MHz	55.3822	41.2211
405.000000 MHz	55.2979	40.8800
410.000000 MHz	55.0740	40.5091
415.000000 MHz	54.9375	40.2556
420.000000 MHz	54.9425	39.9211
425.000000 MHz	54.7049	39.6988
430.000000 MHz	54.6016	39.4175
435.000000 MHz	54.5624	39.1502
440.000000 MHz	54.3061	38.8707
445.000000 MHz	54.3106	38.5097
450.000000 MHz	54.1627	38.3577
455.000000 MHz	53.9726	37.9707
460.000000 MHz	53.9962	37.7008
465.000000 MHz	53.9216	37.3620
470.000000 MHz	53.9659	37.1534
475.000000 MHz	54.0226	36.9638
480.000000 MHz	53.9468	36.7498
485.000000 MHz	53.9361	36.6699
490.000000 MHz	53.7970	36.5648
495.000000 MHz	53.7307	36.2882
500.000000 MHz	53.5169	36.1354