

APPENDIX C – DIPOLE VALIDATION PLOTS

Test Laboratory: HCT

450 Dipole Validation test: Input power(1W)

Liquid Temperature : 21.2 °C

Date Tested : May 25, 2006

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

Program Name: System Performance Check at 450 MHz

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

Medium parameters used: $f = 450$ MHz; $\sigma = 0.849$ 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 - SN1607; ConvF(7.21, 7.21, 7.21); Calibrated: 2005-08-30

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: SAM 835/900 MHz; Type: SAM

Validatoin 450 MHz/Area Scan (101x121x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 5.54 mW/g

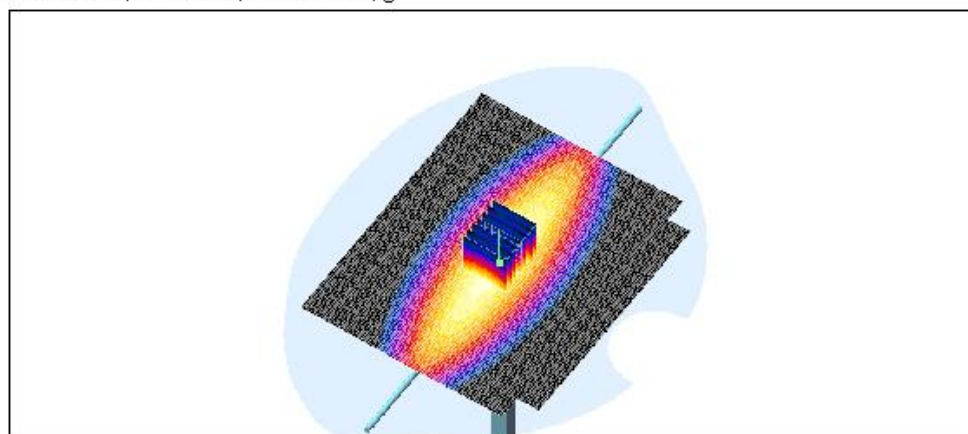
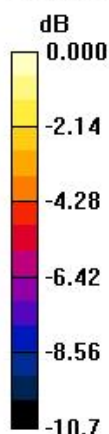
Validatoin 450 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 81.0 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 9.51 W/kg

SAR(1 g) = 5.19 mW/g; SAR(10 g) = 3.2 mW/g

Maximum value of SAR (measured) = 5.50 mW/g



0 dB = 5.50mW/g

Title : BR777

SubTitle : 450 MHz HEAD

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Frequency	e'	e''
400.000000 MHz	47.1195	36.7077
405.000000 MHz	46.8329	36.2922
410.000000 MHz	46.7040	35.9351
415.000000 MHz	46.5602	35.4677
420.000000 MHz	46.2700	35.2037
425.000000 MHz	46.0489	34.8374
430.000000 MHz	45.9655	34.5757
435.000000 MHz	45.8060	34.3125
440.000000 MHz	45.7587	34.1332
445.000000 MHz	45.6638	34.0032
450.000000 MHz	45.5777	33.9123
455.000000 MHz	45.5216	33.7629
460.000000 MHz	45.4912	33.7594
465.000000 MHz	45.4892	33.6966
470.000000 MHz	45.3875	33.6788
475.000000 MHz	45.3843	33.5914
480.000000 MHz	45.3432	33.4854
485.000000 MHz	45.2526	33.3901
490.000000 MHz	45.1835	33.2061
495.000000 MHz	45.1193	33.0420
500.000000 MHz	45.1214	32.9547

Title : BR777**SubTitle : 450 MHz BODY**

May 25, 2006 03:17 AM

Frequency	e'	e''
400.000000 MHz	55.5094	40.3667
405.000000 MHz	55.3235	40.0740
410.000000 MHz	55.2193	39.6907
415.000000 MHz	55.1324	39.3954
420.000000 MHz	55.0888	39.1600
425.000000 MHz	54.9230	38.9118
430.000000 MHz	54.8666	38.5893
435.000000 MHz	54.8337	38.3876
440.000000 MHz	54.7388	38.1626
445.000000 MHz	54.6769	37.8974
450.000000 MHz	54.5321	37.6920
455.000000 MHz	54.4495	37.4981
460.000000 MHz	54.4599	37.2898
465.000000 MHz	54.3172	37.0134
470.000000 MHz	54.2790	36.7863
475.000000 MHz	54.2038	36.5983
480.000000 MHz	54.0629	36.3462
485.000000 MHz	54.0533	36.1975
490.000000 MHz	53.9420	35.9837
495.000000 MHz	53.9106	35.7222
500.000000 MHz	53.8481	35.5591