

APPENDIX D – DIPOLE VALIDATION PLOTS

Test Laboratory: HCT

450 Dipole Validation test: Input power(1W)

Liquid Temperature : 22.6 °C

Date Tested : June 19, 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; $\sigma = 0.895$ mho/m; $\epsilon_r = 45.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1798; ConvF(7.59, 7.59, 7.59); Calibrated: 2006-08-25

- 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: $\Delta x = 15$ mm, $\Delta y = 15$ mm

Maximum value of SAR (interpolated) = 5.49 mW/g

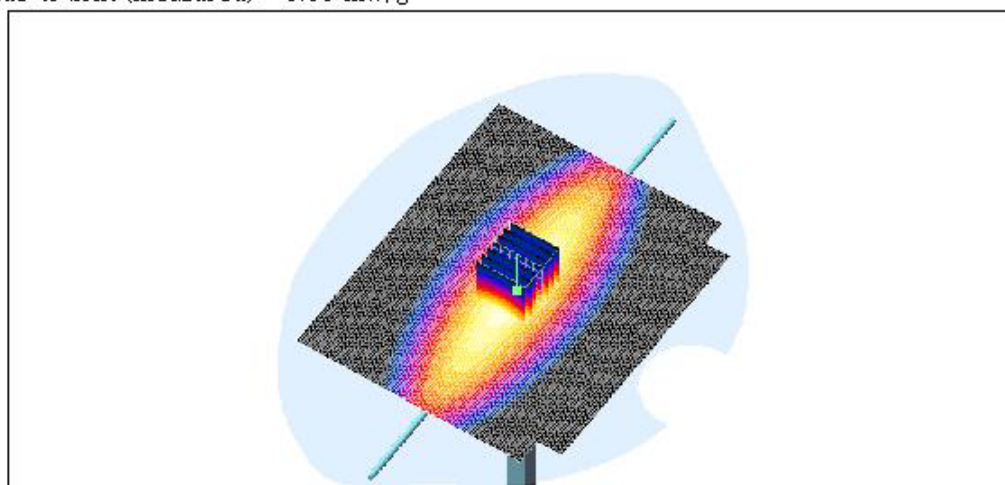
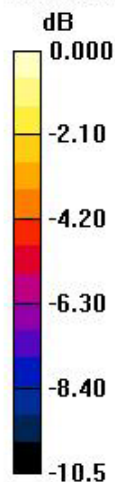
Validatoin 450 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $\Delta x = 5$ mm, $\Delta y = 5$ mm, $\Delta z = 5$ mm

Reference Value = 79.6 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 8.67 W/kg

SAR(1 g) = 5.09 mW/g; SAR(10 g) = 3.19 mW/g

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



0 dB = 5.50mW/g

Title :FR-1000

SubTitle : 450MHz(HEAD)

June 19, 2007 09:41 AM

Frequency	e'	e''
400.000000 MHz	46.5717	38.3845
405.000000 MHz	46.4397	38.0936
410.000000 MHz	46.3376	37.8464
415.000000 MHz	46.1821	37.6337
420.000000 MHz	46.0537	37.1809
425.000000 MHz	45.8957	37.0414
430.000000 MHz	45.6354	36.7249
435.000000 MHz	45.4662	36.4605
440.000000 MHz	45.4357	36.1997
445.000000 MHz	45.2363	35.9523
450.000000 MHz	45.1240	35.7535
455.000000 MHz	44.9272	35.4795
460.000000 MHz	44.8518	35.2476
465.000000 MHz	44.7547	35.0972
470.000000 MHz	44.7396	34.8822
475.000000 MHz	44.5479	34.6829
480.000000 MHz	44.6458	34.4926
485.000000 MHz	44.3915	34.3125
490.000000 MHz	44.4278	34.0696
495.000000 MHz	44.3748	33.9153
500.000000 MHz	44.3206	33.7471

Title :FR-1000
SubTitle : 450MHz(BODY)
June 19, 2007 01:10 PM

Frequency	e'	e''
400.000000 MHz	55.4535	40.2913
405.000000 MHz	55.3390	39.9238
410.000000 MHz	55.2206	39.5239
415.000000 MHz	55.1741	39.2849
420.000000 MHz	55.0687	38.9396
425.000000 MHz	54.9454	38.7061
430.000000 MHz	54.7679	38.4881
435.000000 MHz	54.5727	38.2592
440.000000 MHz	54.5826	37.9580
445.000000 MHz	54.3551	37.6307
450.000000 MHz	54.1804	37.3584
455.000000 MHz	54.1662	37.2125
460.000000 MHz	53.9803	37.0468
465.000000 MHz	53.9009	36.8362
470.000000 MHz	53.8594	36.5763
475.000000 MHz	53.8283	36.4558
480.000000 MHz	53.6984	36.3305
485.000000 MHz	53.6542	36.1726
490.000000 MHz	53.5403	36.0143
495.000000 MHz	53.4862	35.7940
500.000000 MHz	53.4812	35.6370