FCC ID: U32GMRS7015RC DATE: March 06, 2007

## **APPENDIX D – DIPOLE VALIDATION PLOTS**

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**DATE: March 06, 2007** 



## Report No.: HCT-SAR07-0301

Test Laboratory: HCT

450 Dipole Validation test: Input power(1 W)

Liquid Temperature : 21.5°C Date Tested : March 5, 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;  $\sigma = 0.853 \text{ mho/m}$ ;  $\epsilon_r = 45.5$ ;  $\rho = 1000 \text{ kg/m}^3$ 

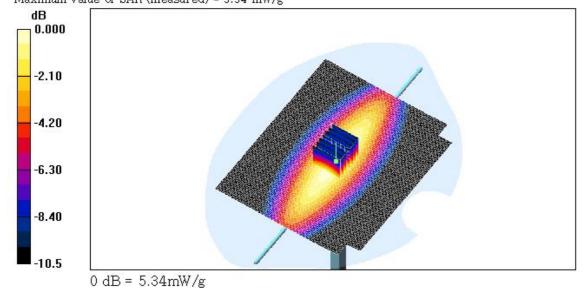
Phantom section: Flat Section; Measurement SW: DASY4, V4.6 Build 23

## 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 1800/1900 MHz; Type: SAM

Validatoin 450 MHz/Area Scan (101x121x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 5.37 mW/g

Validatoin 450 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 81.2 V/m; Power Drift = -0.053 dB
Peak SAR (extrapolated) = 8.42 W/kg
SAR(1 g) = 4.98 mW/g; SAR(10 g) = 3.13 mW/g
Maximum value of SAR (measured) = 5.34 mW/g



**DATE: March 06, 2007** 



Title: GMRS7015RC SubTitle: 450MHz(Head)

Frequency e' e'' 400.000000 MHz 46.9997 36.7465 405.000000 MHz 46.7127 36.4551 410.000000 MHz 46.7467 36.2150 415.000000 MHz 46.6468 35.8991 420.000000 MHz 46.3139 35.6167 425.000000 MHz 46.2207 35.3048	
405.000000 MHz 46.7127 36.4551 410.000000 MHz 46.7467 36.2150 415.000000 MHz 46.6468 35.8991 420.000000 MHz 46.3139 35.6167	
410,000000 MHz 46,7467 36,2150 415,000000 MHz 46,6468 35,8991 420,000000 MHz 46,3139 35,6167	
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4Z3.UUUUUU MITZ 40.ZZU7 33.3U40	
430,000000 MHz 46,0406 35,0527	
435,000000 MHz 45,8659 34,6898	
440,000000 MHz 45,7289 34,4250	
445,000000 MHz 45,6353 34,1783	
450,000000 MHz 45,4707 34,0610	
100100000000000000000000000000000000000	
455,000000 MHz 45,4456 34,0911	
460.000000 MHz 45.5538 33.9145	
465,000000 MHz 45,5812 33,9181	
470,000000 MHz 45,5269 33,8087	
475,000000 MHz 45,5298 33,7096	
480,000000 MHz 45,4561 33,6255	
485,000000 MHz 45,2875 33,4894	
490,000000 MHz 45,2232 33,2339	
495,000000 MHz 45,2137 32,9908	
500,000000 MHz 45,1847 32,9263	



**DATE: March 06, 2007** Report No.: HCT-SAR07-0301

## Title: GMRS7015RC

SubTitle: 450MHz(Body)

Frequency	e'	e''
400,000000 MHz	56,7866	41.0677
405,000000 MHz	56.6428	40.7230
410.000000 MHz	56,6603	40.3883
	ACUT 5 (C) 72 70.78	412 A DESCRIPTION OF STREET
415,000000 MHz	56.6276	40.1213
420,000000 MHz	56.6201	39,8756
425,000000 MHz	56.4749	39,4889
430,000000 MHz	56.5190	39,2948
435,000000 MHz	56.4223	39.0917
440.000000 MHz	56.3404	38.8019
	Z47-4-12-0-12-12-12-12-12-12-12-12-12-12-12-12-12-	
445.000000 MHz	56.1323	38,5044
450,000000 MHz	56.1249	38,1834
455,000000 MHz	56.0929	37.9304
460,000000 MHz	55,9320	37.6897
465.000000 MHz	55.8825	37,4314
470.000000 MHz	55.7142	37,1750
		1 THE STATE OF THE
475.000000 MHz	55.7186	36,9430
480,000000 MHz	55,4966	36,6268
485,000000 MHz	55.4413	36,3180
490,000000 MHz	55.3468	36,1567
495,000000 MHz	55,2888	35,9908
1001000000 1411 12	00,2000	00.0000

500,000000 MHz 55,1719 35,7097

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