



# EMC Test Data

Client: GE MDS LLC	Job Number: J87251
Model: Mercury 5800 IDU	T-Log Number: T87282
	Account Manager: Michelle Kim
Contact: Jonathan Vilagy	
Standard: FCC Part15.247, RSS-210 Issue 7	Class: N/A

## Maximum Permissible Exposure

### Test Specific Details

Objective: Evaluate the RF Exposure requirements per FCC 1.1310, 2.1091 and RSS-102.

Date of Test: 7/17/2012  
 Test Engineer: David Bare

### General Test Configuration

Calculation uses the free space transmission formula:

$$S = (PG)/(4 \pi d^2)$$

Where: S is power density ( $W/m^2$ ), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

### Summary of Results

Device complies with Power Density requirements at 20cm separation:	Yes
If not, required separation distance (in cm):	

### Modifications Made During Testing

No modifications were made to the EUT during testing

### Deviations From The Standard

No deviations were made from the requirements of the standard.



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Use: General  
 Antenna: Omni

Freq. MHz	EUT Power		Cable Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm <sup>2</sup>	MPE Limit at 20 cm mW/cm <sup>2</sup>
	dBm	mW*						
5730	25.5	354.8	0	10	25.5	3548.13	0.706	1.000
5788	25.6	363.1	0	10	25.6	3630.78	0.722	1.000
5846	25.6	363.1	0	10	25.6	3630.78	0.722	1.000

For the cases where S > the MPE Limit

Freq. MHz	S @ 20 cm mW/cm <sup>2</sup>	MPE Limit mW/cm <sup>2</sup>	Distance where S <= MPE Limit
5730	0.706	1.000	16.8cm
5788	0.722	1.000	17.0cm
5846	0.722	1.000	17.0cm