# Radio Test Data

	An <u>B</u>		
Client:	GE MDS LLC	Job Number:	J80799
Model: MER	MERCURY2	T-Log Number:	T80830
		Account Manager:	Susan Pelzl
Contact:	Dennis McCarthy		
Standard:	FCC Part 90, RSS-119	Class:	-

# Maximum Permissible Exposure

## **Test Specific Details**

**Elliott** 

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Evaluation 10/14/2010 Test Engineer Mehran Birgani

## **General Test Configuration**

Calculation uses the free space transmission formula:

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

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

#### Summary of Results

 Minimum separation distance for 18dBi ant. (in cm):
 24.9
 (Note - manual states 25cm required)

 Minimum separation distance for 13dBi ant. (in cm):
 24.6

#### 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.

Olioni	GE MDS LLC	2 company					Job Number:	.180799
							T-Log Number:	
Model	MERCURY2						Account Manager:	
Contact	: Dennis McCa	arthy						
Standard	: FCC Part 90,	, RSS-119					Class:	-
Jse:	General		Antenna:	Panel 18dB	i less 6dB ca	hle loss		
/36.	EU	IT	Cable Loss	Ant	Power		Power Density (S)	MPE Limit
Freq.	Total P		Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm
<u>MHz</u> 3652 -	dBm	mW	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2
3652 - 3673	26.9	489.8	6	18	20.9	7762.47	1.544	1.000
For the cas	ses where S > t	the MPF Li	mit					
	Power De					e where		
Freq.	at 20	at 20 cm		at 20 cm		PE Limit		
MHz	mW/cm^2			mW/cm^2 cm				
3652 - 3673	1.54	44	1.000		24.9			
Jse: Freq. MHz 3652 -	General EU Total P dBm 31.8		Antenna: Cable Loss Loss dB 6	Ant Gain dBi 13	Power at Ant dBm 25.8	EIRP mW 7585.78	Power Density (S) at 20 cm mW/cm^2 1.509	MPE Limit at 20 cm mW/cm^2 1.000
3673	51.0	1313.0	0	15	23.0	7505.70	1.505	1.000
or the cas	es where S > t	the MPE Li						
_	Power Density (S)		MPE Limit		Distance where			
Freq.		at 20 cm mW/cm^2		at 20 cm mW/cm^2		PE Limit		
			1.0		cm			
MHz 3652 -	1.509			00	24.6			