

Client: GE MDS LLC	Job Number: J77138
Model: SD2 Transceiver	T-Log Number: T77262
	Account Manager: Susan Pelzl
Contact: Dennis McCarthy	
Standard: FCC Part 80 & 90, RSS-119, FCC Part 15	Class: N/A

Maximum Permissible Exposure

Test Specific Details

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 Test: 11/12/2009
 Test Engineer: David Bare
 Test Location: -

General Test Configuration

Calculation uses the free space transmission formula:

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

Where: S is power density (W/m²), 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:	No
Required separation distance for 9.15dBi ant. (in m):	1.28

Use: General

Freq. MHz	EUT Power		Cable Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm ²	MPE Limit at 20 cm mW/cm ²
	dBm	W						
216	33.0	2.0	0	9.15	33.0	16405.90	3.264	0.200
220	37.0	5.0	0	9.15	37.0	41209.75	8.198	0.200
222	37.0	5.0	0	9.15	37.0	41209.75	8.198	0.200

For the cases where S > the MPE Limit

Freq. MHz	Power Density (S) at 20 cm mW/cm ²	MPE Limit at 20 cm mW/cm ²	Distance where S <= MPE Limit cm
216	3.264	0.200	80.8
220	8.198	0.200	128.1
222	8.198	0.200	128.1