

Client: GE MDS LLC	Job Number: J73151
Model: TD220	T-Log Number: T73232
	Account Manager: Susan Pelzl
Contact: Dennis McCarthy	
Standard: RSS 119, FCC Part 90 and 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: 10/1/2008

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 ( $W/m^2$ ), 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:	No
If not, required separation distance (in cm):	133.2

### 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 Note: 50% duty cycle source based averaging for half duplex operation  
 Antenna: 16.5 dBi allows 1/2 the EIRP for calculation of MPE distances

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*						
217.0125	33.0	1995.3	0	16.5	33.0	44562.55	8.865	0.200
218.0000	32.9	1949.8	0	16.5	32.9	43548.18	8.664	0.200
219.9875	32.7	1862.1	0	16.5	32.7	41588.19	8.274	0.200

For the cases where S > the MPE Limit

Freq. MHz	Power Density (S) at 20 cm mW/cm <sup>2</sup>	MPE Limit at 20 cm mW/cm <sup>2</sup>	Distance where S <= MPE Limit cm
217.0125	8.865	0.200	133.2
218.0000	8.664	0.200	131.6
219.9875	8.274	0.200	128.6

Use: General Note: 50% duty cycle source based averaging for half duplex operation  
 Antenna: 10 dBi allows 1/2 the EIRP for calculation of MPE distances

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*						
217.0125	33.0	1995.3	0	10	33.0	9976.31	1.985	0.200
218.0000	32.9	1949.8	0	10	32.9	9749.22	1.940	0.200
219.9875	32.7	1862.1	0	10	32.7	9310.44	1.852	0.200

For the cases where S > the MPE Limit

Freq. MHz	Power Density (S) at 20 cm mW/cm <sup>2</sup>	MPE Limit at 20 cm mW/cm <sup>2</sup>	Distance where S <= MPE Limit cm
217.0125	1.985	0.200	63.0
218.0000	1.940	0.200	62.3
219.9875	1.852	0.200	60.9

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Use: General Note: 50% duty cycle source based averaging for half duplex operation  
 Antenna: 6 dBi allows 1/2 the EIRP for calculation of MPE distances

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*						
217.0125	33.0	1995.3	0	6	33.0	3971.64	0.790	0.200
218.0000	32.9	1949.8	0	6	32.9	3881.24	0.772	0.200
219.9875	32.7	1862.1	0	6	32.7	3706.55	0.737	0.200

For the cases where S > the MPE Limit

Freq. MHz	Power Density (S) at 20 cm mW/cm <sup>2</sup>	MPE Limit at 20 cm mW/cm <sup>2</sup>	Distance where S ≤ MPE Limit cm
217.0125	0.790	0.200	39.8
218.0000	0.772	0.200	39.3
219.9875	0.737	0.200	38.4



## EMC Test Data

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