

Client: GE MDS LLC	Job Number: J85302
Model: MESH2400OEM Module	T-Log Number: T85356
	Account Manager: Susan Pelzl
Contact: Dennis McCarthy	
Standard: FCC 15.247 / RSS 210 / EN 300 440	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: 1/9/2012

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/No
If not, required separation distance (in cm):	<20

### 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: 4dBi 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*						
2405	4.0	2.5	0	4	4.0	6.25	0.001	1.000
2440	13.2	20.9	0	4	13.2	52.48	0.010	1.000
2475	2.5	1.8	0	4	2.5	4.47	0.001	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
2405	0.001	1.000	0.7cm
2440	0.010	1.000	2.0cm
2475	0.001	1.000	0.6cm

It should also be noted that the output power from the device is a maximum of 20.9mW. This power level is below the FCC's threshold of 60/f (24.2mW at 2475 MHz) and therefore the device is below the low threshold that would require rf exposure evaluation for portable or mobile exposure conditions. The power level is not below the RSS-102 eirp threshold of 20mW.