



EMC Test Data

Client:	GE MDS LLC	Job Number:	J96255
Model:	SD4-1	T-Log Number:	T96301
		Project Manager:	Christine Krebill
Contact:	Dennis McCarthy	Project Coordinator:	-
Standard:	FCC Parts 15 and 90, RSS-119, EN 300 113-1	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: 3/23/2015
 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/m²), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmi

Summary of Results

Device complies with Power Density requirements at 20cm separation:	No
If not, required separation distance (in cm):	varies with antenna gain, see below



EMC Test Data

Client:	GE MDS LLC	Job Number:	J96255
Model:	SD4-1	T-Log Number:	T96301
		Project Manager:	Christine Krebill
Contact:	Dennis McCarthy	Project Coordinator:	-
Standard:	FCC Parts 15 and 90, RSS-119, EN 300 113-1	Class:	N/A

Use: General
 Antenna: various, see below

Industry Canada

Freq. MHz	EUT Power		Cable Loss 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	mW*						
406.1	37.4	5495.4	0	16.5	37.4	245470.89	48.835	0.159
406.1	37.4	5495.4	0	10	37.4	54954.09	10.933	0.159
406.1	37.4	5495.4	0	5	37.4	17378.01	3.457	0.159
406.1	37.4	5495.4	0	0	37.4	5495.41	1.093	0.159

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
406.1	48.835	0.159	350.7
406.1	10.933	0.159	165.9
406.1	3.457	0.159	93.3
406.1	1.093	0.159	52.5

16.5 dBi antenna
 10 dBi Antenna
 5 dBi Antenna
 0 dBi Antenna

FCC

Freq. MHz	EUT Power		Cable Loss 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	mW*						
406.1	37.4	5495.4	0	16.5	37.4	245470.89	48.835	0.271
406.1	37.4	5495.4	0	10	37.4	54954.09	10.933	0.271
406.1	37.4	5495.4	0	5	37.4	17378.01	3.457	0.271
406.1	37.4	5495.4	0	0	37.4	5495.41	1.093	0.271

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
406.1	48.835	0.271	268.6
406.1	10.933	0.271	127.1
406.1	3.457	0.271	71.5
406.1	1.093	0.271	40.2

16.5 dBi antenna
 10 dBi Antenna
 5 dBi Antenna
 0 dBi Antenna