

Client:	GE MDS LLC	Job Number:	J75790
Model:	SD9	T-Log Number:	T75896
Contact:	Dennis McCarthy	Account Manager:	Susan Pelzl
Standard:	FCC Part 101, 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: 6/26/2009

Test Engineer: Mehran Birgani

Radio Lab

13.8VDC

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
Required separation distance for 5dBi ant. (in m):	0.46
Required separation distance for 10dBi ant. (in m):	0.82
Required separation distance for 16.5dBi ant. (in m):	1.74

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

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
928	37.2	5248.1	0	5	37.2	16595.87	3.302	0.619
944	37.3	5370.3	0	5	37.3	16982.44	3.379	0.629
960	36.6	4570.9	0	5	36.6	14454.40	2.876	0.640

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
928	3.302	0.619	46.2
944	3.379	0.629	46.3
960	2.876	0.640	42.4

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
928	37.2	5248.1	0	10	37.2	52480.75	10.441	0.619
944	37.3	5370.3	0	10	37.3	53703.18	10.684	0.629
960	36.6	4570.9	0	10	36.6	45708.82	9.093	0.640

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
928	10.441	0.619	82.2
944	10.684	0.629	82.4
960	9.093	0.640	75.4

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
928	37.2	5248.1	0	16.5	37.2	234422.88	46.637	0.619
944	37.3	5370.3	0	16.5	37.3	239883.29	47.723	0.629
960	36.6	4570.9	0	16.5	36.6	204173.79	40.619	0.640

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
928	46.637	0.619	173.6
944	47.723	0.629	174.2
960	40.619	0.640	159.3