

Client:	GE MDS LLC	Job Number:	J79098
Model:	Transnet-SF9	T-Log Number:	T79794
		Account Manager:	Susan Pelzl
Contact:	Dennis McCarthy		
Standard:	FCC 15.247, RSS-210	Class:	N/A

Maximum Permissible Exposure

Test Specific Details

Objective: Evaluate the RF Exposure requirements per FCC 1.1310, 2.1091 and RSS-102.

Date of Test: 1/27/2011
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:	No
If not, required separation distance (in cm):	22.7

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: 12.2 dBi

FOR 300-1500 MHz single transmitters

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	mW*						
902.2	23.7	234.4	0	12.2	23.7	3890.45	0.774	0.601
915	23.7	234.4	0	12.2	23.7	3890.45	0.774	0.610
927.6	23.5	223.9	0	12.2	23.5	3715.35	0.739	0.618

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
902.2	0.774	0.601	22.7
915	0.774	0.610	22.5
927.6	0.739	0.618	21.9

Use: General
 Antenna: 9.2 dBi

FOR 300-1500 MHz single transmitters

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	mW*						
902.2	26.7	467.7	0	9.2	26.7	3890.45	0.774	0.601
915	26.7	467.7	0	9.2	26.7	3890.45	0.774	0.610
927.6	26.5	446.7	0	9.2	26.5	3715.35	0.739	0.618

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
902.2	0.774	0.601	22.7
915	0.774	0.610	22.5
927.6	0.739	0.618	21.9

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Use: General
 Antenna: 6 dBi

FOR 300-1500 MHz single transmitters

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	mW*						
902.2	29.7	933.3	0	6	29.7	3715.35	0.739	0.601
915	29.7	933.3	0	6	29.7	3715.35	0.739	0.610
927.6	29.6	912.0	0	6	29.6	3630.78	0.722	0.618

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
902.2	0.739	0.601	22.2
915	0.739	0.610	22.0
927.6	0.722	0.618	21.6