



EMC Test Data

Client: Visiplex, Inc	Job Number: JD104072
Model: VTX-1	T-Log Number: T104092
Contact: Ben Agam	Project Manager: Deepa Shetty
Standard: FCC parts 15 and 90	Project Coordinator: -
	Class: N/A

Maximum Permissible Exposure / SAR Exclusion

Test Specific Details

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

Date of Evaluation: 7/17/2017

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
If not, required separation distance (in cm):	



EMC Test Data

Client: Visiplex, Inc	Job Number: JD104072
Model: VTX-1	T-Log Number: T104092
Contact: Ben Agam	Project Manager: Deepa Shetty
Standard: FCC parts 15 and 90	Project Coordinator: -
	Class: N/A

FCC MPE Calculation

Use: General

Antenna: 3.0 dBi

FOR 300-1500 MHz single transmitters (General use)

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	19.4	87.1	0	3	19.4	173.78	0.035	0.271
435	19.1	81.3	0	3	19.1	162.18	0.032	0.290
470	18.4	69.2	0	3	18.4	138.04	0.027	0.313

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	0.035	0.271	7.1
435	0.032	0.290	6.7
470	0.027	0.313	5.9