

7. Measurement Data (continued)

7.10. Public Exposure to Radio Frequency Energy Levels ((47 CFR 1.1307(b) RSS-GEN 5.6, RSS 102

Channel	MPE Distance (cm)	DUT Peak Output Power (dBm)	DUT Antenna Gain (dBi)	Power Density		Limit (mW/cm ²)	Result
				(mW/cm ²)	(W/m ²)		
	(1)	(2)	(3)	(4)		(5)	
N/A	20.0	-27.27	1.0	0.0000005	0.0000047	1	Compliant

$$PD = \frac{OP + AG}{(4 \times \pi \times d^2)}$$

- PD = Power Density (mW/cm²)
- OP = DUT Peak Output Power (dBm)
- AG = DUT Antenna Gain (dBi)
- d = MPE Distance (cm)

- Reference CFR 2.1093(b): For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.
- Section 7.5, table column 3 of this test report. Converted to peak output power.
- Data supplied by the client. Antenna specification data of worst case antenna used by the DUT.
- Power density is calculated from field strength measurement and antenna gain.
- Reference CFR 1.1310, Table 1: Limits for Maximum Permissible Exposure (MPE), Section (B): Limits for General Population/Uncontrolled Exposure.