

Client: Barracuda Networks	Job Number: JD99428
Model: BNHW027 (Bullet)	T-Log Number: T100883
Contact: Gary Liu	Project Manager: Christine Krebill
Standard: FCC part 15, RSS-247	Project Coordinator: -
	Class: N/A

Maximum Permissible Exposure / SAR Exclusion

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 Evaluation: 4/25/2016

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):	

Deviations From The Standard

No deviations were made from the requirements of the standard.

Client: Barracuda Networks	Job Number: JD99428
Model: BNHW027 (Bullet)	T-Log Number: T100883
Contact: Gary Liu	Project Manager: Christine Krebill
Standard: FCC part 15, RSS-247	Project Coordinator: -
	Class: N/A

FCC MPE Calculation

Use: General

Antenna: 3.2 dBi Whip

Rated power plus tolerance

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*						
2412	16.0	39.8	0	3.2	16.0	83.18	0.017	1.000
2437	16.0	39.8	0	3.2	16.0	83.18	0.017	1.000
2462	16.0	39.8	0	3.2	16.0	83.18	0.017	1.000

For the cases where S > the MPE Limit

Freq. MHz	S @ 20 cm mW/cm ²	MPE Limit mW/cm ²	Distance where S <= MPE Limit
2412	0.017	1.000	2.6cm
2437	0.017	1.000	2.6cm
2462	0.017	1.000	2.6cm

Industry Canada MPE Calculation

Use: General

Antenna: 3.2 dBi Whip

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*						
2412	16.0	39.8	0	3.2	16.0	83.18	0.017	0.537
2437	16.0	39.8	0	3.2	16.0	83.18	0.017	0.540
2462	16.0	39.8	0	3.2	16.0	83.18	0.017	0.544

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
2412	0.017	0.537	3.5cm
2437	0.017	0.540	3.5cm
2462	0.017	0.544	3.5cm