

RF EXPOSURE EVALUATION REPORT

FCC ID : U8G-P1BE08
Equipment : Peplink Pepwave Wireless Product
Brand Name : PEPWAVE

Model Name : AP One Enterprise
APO-ENTR
Applicant : PISMO LABS TECHNOLOGY LIMITED
A8, 5/F, HK Spinners Industrial Building, Phase 6,
481 Castle Peak Road, Cheung Sha Wan, Hong Kong
Manufacturer : PISMO LABS TECHNOLOGY LIMITED
A8, 5/F, HK Spinners Industrial Building, Phase 6,
481 Castle Peak Road, Cheung Sha Wan, Hong Kong
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



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History of this test report

Report No.	Version	Description	Issued Date
FA5D1130	Rev. 01	Initial issue of report	Jan. 22, 2026

1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	Peplink Pepwave Wireless Product
Brand Name	 
Model Name	AP One Enterprise APO-ENTR
FCC ID	U8G-P1BE08
Wireless Technology and Frequency Range	WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 6GHz Band: 5925 MHz ~ 6425 MHz, 6425 MHz~6525 MHz, 6525 MHz~6875 MHz, 6875 MHz~7125 MHz
Mode	WLAN: 802.11a/b/g/n/ac/ax/be HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160
Remark: The difference between original report is that BLE 、TDWR and Zero-Wait functionality is disabled by software,placed the Nor and EMMC components, removed TPM and NAND components and the max power was not changed.	

Reviewed by: Jason Wang

Report Producer: Paula Chen

2. RF output power

Mode		Maximum Power(dBm)
Non-Beamforming	2.4GHz WLAN;G1D	26.71
	2.4GHz WLAN;D1D	26.25
	5.2GHz WLAN;D1D	26.71
	5.3GHz WLAN;D1D	23.85
	5.6GHz WLAN;D1D	23.84
	5.8GHz WLAN;D1D	26.88
Beamforming	2.4GHz WLAN;D1D	26.23
	5.2GHz WLAN;D1D	26.58
	5.3GHz WLAN;D1D	21.74
	5.6GHz WLAN;D1D	20.92
	5.8GHz WLAN;D1D	26.26

Mode		Maximum EIRP power(dBm)
Non-Beamforming	6GHz WLAN	26.44
Beamforming	6GHz WLAN	29.58

3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

The MPE was calculated at 24 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

4. Radio Frequency Radiation Exposure Evaluation

4.1. Standalone Power Density Calculation

Band		Antenna Gain (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dBm)	Tune-up EIRP (dBm)	Tune-up EIRP (mW)	Power Density at 24cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
Non-Beamforming	2.4GHz WLAN;G1D	2.82	26.71	29.53	0.5	30.03	1006.93	0.139	1.000	0.139
	2.4GHz WLAN;D1D	2.82	26.25	29.07	0.5	29.57	905.73	0.125	1.000	0.125
	5.2GHz WLAN;D1D	5.06	26.71	31.77	0.5	32.27	1686.55	0.233	1.000	0.233
	5.3GHz WLAN;D1D	5.29	23.85	29.14	0.5	29.64	920.45	0.127	1.000	0.127
	5.6GHz WLAN;D1D	5.45	23.84	29.29	0.5	29.79	952.80	0.132	1.000	0.132
	5.8GHz WLAN;D1D	5.17	26.88	32.05	0.5	32.55	1798.87	0.249	1.000	0.249
	6GHz WLAN;D1D			26.44	0.5	26.94	494.31	0.068	1.000	0.068
Beamforming	2.4GHz WLAN;D1D	6.46	26.23	32.69	0.5	33.19	2084.49	0.288	1.000	0.288
	5.2GHz WLAN;D1D	7.31	26.58	33.89	0.5	34.39	2747.89	0.380	1.000	0.380
	5.3GHz WLAN;D1D	7.57	21.74	29.31	0.5	29.81	957.19	0.132	1.000	0.132
	5.6GHz WLAN;D1D	8.57	20.92	29.49	0.5	29.99	997.70	0.138	1.000	0.138
	5.8GHz WLAN;D1D	8.92	26.26	35.18	0.5	35.68	3698.28	0.511	1.000	0.511
	6GHz WLAN;D1D			29.58	0.5	30.08	1018.59	0.141	1.000	0.141

4.2. Collocated Power Density Calculation

Maximum WLAN 2.4GHz Power Density / Limit	Maximum WLAN 5GHz Power Density / Limit	Maximum WLAN 6GHz Power Density / Limit	Σ (Power Density / Limit) of WLAN
0.288	0.511	0.141	0.940

Note:

1. Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)]
2. Considering the transmitter of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of all collocated transmitters is compliant.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.