RF EXPOSURE EVALUATION

1. PRODUCTINFORMATION

Product Description	IO Wi-Fi 6 Dual Band 8x8:8 Indoor Access Point with Integrated Antenna (6 dBi) [DC powered]		
Model Name	ion12xi_h		
FCC ID	2AZOI12XIH		

2. EVALUATION METHODANDLIMIT

Human exposure to RF emissions from mobile devices(47CFR§2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons. The device under test (IO Wi-Fi 6 Dual Band 8x8:8 Indoor Access Point with Integrated Antenna (6 dBi) [DC powered] is r a mobile device nor a RF exposure product and it isnot closed to 20cm distance from persons

LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density(S) (mW/cm ²)	Averaging Time IEl ² IHl ² or S(Minutes)
0.31.34	614	1.63	(100)*	30
1.3430	824/f	2.19/f	$(180/f^2)*$	30
30300	27.5	0.073	0.2	30
3001500			f/1500	30
1500100,000			1.0	30

*Note:

- 1. f= Frequency in MHz*Plane-wave Equivalent Power Density
- 2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. (operated in BT/ WIFI) See47CFR§§2.1091 and 2.1093 on source-based time-averaging requirement for mobile and portable transmitters.

S=PG/4rrR²

Where:

S=power density

P=power input toantenna

G=power gain of the antenna in the direction of interest relative to anisotropic radiator

R=distance to the center of radiation of the antenna

3. CALCULATION

A minimum test separation distance 20cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits. The distance must be at least 20cm and fully supported by the operating and installation configurations of the transmitter and its antenna(s), according to the source-based time-averaged maximum power requirements of §2.1091(d)(2). In cases where cable losses or other attenuations are applied to determine compliance, the most conservative operating configurations and exposure conditions must be evaluated.

The device under test (IO Wi-Fi 6 Dual Band 8x8:8 Indoor Access Point with Integrated Antenna (6 dBi) [DC & PoE powering]) is neither a mobile device nor a RF exposure product and it is not closed to 20cm distance from persons

Antenna Gain (5GHz) = 5dBi (Numeric = 3.162), rr = 3.14

Antenna Gain (2.4GHz Wi-Fi and BLE)=6dBi (Numeric=3.981),rr=3.14

Frequency	Output Power	Output Power	Power Density	PowerDensity Limit
(MHz)	(dBm)	(mW)	(mW/cm^2)	(mW/cm^2)
2440 (BLE)	5.26	230.674718872	0.182	1
2452 (2.4GHz)	27.02	503.5006087879	0.398	1
5240 (Band 1)	23.63	230.674718872	0.145	1
5745 (Band 4)	27.02	503.5006087879	0.316	1

Note: Only the worst case recorded.