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Maximum Permissive Exposure

FCC ID: 2BCTP-LSPLUS
EUT Name: Desktop 3D Printer
M/N: Phrozen Sonic LS+ 3D Printer

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational / Control Exposures (f = frequency)				
30-300	61.4	0.163	1.0	6
300-1500	---	---	f/300	6
1500-100,000	---	---	5.0	6
(B) Limits for General Population / Uncontrolled Exposures (f = frequency)				
30-300	27.5	0.073	0.2	30
300-1500	---	---	f/1500	30
1500-100,000	---	---	1.0	30

2. MPE Calculation

We declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

RF Exposure Calculations: $S = (P * G) / (4 * \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

Note: $\pi=3.1416$ in this report.

2.1. Estimation Result

EUT: Desktop 3D Printer		
M/N: Phrozen Sonic LS+ 3D Printer		
Test date: 2026-01-06~23	Pressure: 101.8±1.0 kpa	Humidity: 52.3±3.0%
Tested by: Carl	Test site: RF site	Temperature: 22.6±0.6°C

WiFi 2.4G

Test Mode	Test Distance (cm)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE	Result
11b	20	10.17	10.40	4.47	2.80	0.0058	PASS
11g		3.06	2.02	4.47	2.80	0.0011	PASS
11n HT20		3.18	2.08	4.47	2.80	0.0012	PASS
11n HT40		3.08	2.03	4.47	2.80	0.0011	PASS
Conclusion: Pass							

WiFi 5G Band1

Test Mode	Test Distance (cm)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE	Result
11a	20	6.49	4.46	4.71	2.96	0.0026	PASS
11n20		6.22	4.19	4.71	2.96	0.0025	PASS
11n40		4.37	2.74	4.71	2.96	0.0016	PASS
11ac20		6.52	4.49	4.71	2.96	0.0026	PASS
11ac40		4.63	2.90	4.71	2.96	0.0017	PASS
11ac80		6.19	4.16	4.71	2.96	0.0024	PASS
Conclusion: Pass							

WiFi 5G Band3

Test Mode	Test Distance (cm)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE	Result
11a	20	7.53	5.66	3.86	2.43	0.0027	PASS
11n20		7.34	5.42	3.86	2.43	0.0026	PASS
11n40		7.26	5.32	3.86	2.43	0.0026	PASS
11ac20		7.65	5.82	3.86	2.43	0.0028	PASS
11ac40		7.67	5.85	3.86	2.43	0.0028	PASS
11ac80		7.27	5.33	3.86	2.43	0.0026	PASS
Conclusion: Pass							