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Maximum Permissible Exposure

FCC ID: 2BCTP-CSPLUS
Product Name: Desktop 3D Printer
M/N: Phrozen Sonic CS+ 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).

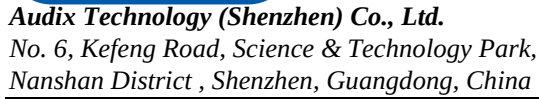
Table 1 Limits for Maximum Permissible Exposure

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

APTIV Services Deutschland GmbH 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.

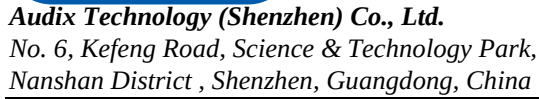
RF Exposure Calculations: $S = (P * G) / (4 * \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$



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WiFi 2.4GHz:

Test Mode	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE	Limit
11b	10.08	10.19	4.47	2.80	0.0057	1
11g	2.46	1.76	4.47	2.80	0.0010	
11n HT20	2.47	1.77	4.47	2.80	0.0010	
11n HT40	2.85	1.93	4.47	2.80	0.0011	
Conclusion: Pass						



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Band1

Test Mode	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE	Limit
11a	5.93	3.92	4.71	2.96	0.0023	1
11n20	5.85	3.85	4.71	2.96	0.0023	
11n40	6.09	4.06	4.71	2.96	0.0024	
11ac20	5.82	3.82	4.71	2.96	0.0022	
11ac40	6.07	4.05	4.71	2.96	0.0024	
11ac80	5.66	3.68	4.71	2.96	0.0022	
Conclusion: Pass						

Band3

Test Mode	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE	Limit
11a	8.07	6.41	3.86	2.43	0.0031	1
11n20	7.95	6.24	3.86	2.43	0.0030	
11n40	8.31	6.78	3.86	2.43	0.0033	
11ac20	7.95	6.24	3.86	2.43	0.0030	
11ac40	8.26	6.70	3.86	2.43	0.0032	
11ac80	8.02	6.34	3.86	2.43	0.0031	
Conclusion: Pass						



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Based on safety distance (r) **20cm**, the antenna gain (G) numerical as below:

Antenna System [Ⓜ]	
Type of Antenna [Ⓜ]	External rubber stick antenna [Ⓜ]
Antenna Number [Ⓜ]	1 [Ⓜ]
Antenna Peak Gain [Ⓜ]	WIFI 2.4GHz Peak Gain: 4.47dBi [Ⓜ] WIFI 5GHz Peak Gain [Ⓜ] B1: 4.71dBi; B4: 3.86dBi [Ⓜ]

WiFi 2.4GHz highest power output (P) is **10.19mW**, and the WiFi 5GHz highest power output (P) is **6.78mW**;

the WiFi 2.4GHz power density (S) is **0.0057mW/cm²**, the WiFi 5GHz power density (S) is **0.033mW/cm²**.

Note: Wi-Fi 2.5G and Wi-Fi 5G do not support simultaneous transmission.