

FCC RF Exposure

Applicant : Caddx Technology (ShenZhen) Co., Ltd.
Address : 13/F, Minrray Building, No. 5 Ganli Sixth Road, Jihua Street,
Longgang District, Shenzhen City, Guangdong Province, China.
Product Name : PROTOS
Brand Mark : CADDXFPV
Model no. : C0CA-FPL27
Series model : N/A
FCC ID : 2BHG9-C0CA-FPL27
Report Number : BLA-EMC-202509-A5902
Date of Receipt : Sep. 18, 2025
Date of Test : Sep. 18, 2025 to Sep. 26, 2025
Test Standard : 47 CFR Part 15, Part1.1307
47 CFR Part 15, Part2.1093
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

Compiled by: Mark Chen Review by: Xavier



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Revise Record

Version No.	Date	Description
01	Oct. 17, 2025	Original

1 General information

1.1 General information

Applicant	Caddx Technology (ShenZhen) Co., Ltd.
Address	13/F, Minrray Building, No. 5 Ganli Sixth Road, Jihua Street, Longgang District, Shenzhen City, Guangdong Province, China.
Manufacturer	Caddx Technology (ShenZhen) Co., Ltd.
Address	13/F, Minrray Building, No. 5 Ganli Sixth Road, Jihua Street, Longgang District, Shenzhen City, Guangdong Province, China.

1.2 General description of EUT

Product Name	PROTOS
Model No.	C0CA-FPL27
Operation Frequency	5740MHz-5805MHz
Channel numbers	3
Modulation Type	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type	Stick antenna
Antenna Gain	3.66dBi
Power supply	Battery DC 7.6V
Test Voltage	DC 7.6V
Hardware Version	N/A
Software Version	N/A

Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

2 RF Exposure Compliance Requirement

2.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.2 Limits

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

2.3 Result

$$\text{EIRP} = \text{pt} \times \text{gt} = (\text{E} \times \text{d})^{2/30}$$

Where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m

d = measurement distance in meters (m)

$$\text{Spot} = (\text{E} \times \text{d})^{2/30} \times \text{gt}$$

5.8G Antenna Gain: 3.66dBi

5.8G Conducted Output Power worse case: **14.573dBm @ 5770MHz**

$$\text{ERP} = 14.573 + 3.66 - 2.15 = 16.083\text{dBm} = 40.579\text{mW} < 3060\text{mW}$$

Comply with RF exposure exemption limit.

----END OF REPORT----

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