

RF Exposure

Applicant : CADDX Technology (ShenZhen) co., Ltd.
13/F Minrray Building, No. 5 Ganli Sixth Road,
Address : Jihua Street, Longgang District, Shenzhen City,
Guangdong Province China.
Product Name : Ascent VRX
Brand Mark : CADDXFPV
Model : WN02-FPL08
WN02-FP008, WN02-FP009, WN02-FPL09,
Series model : WN02-FP012, WN02-FPL12, WN02-FP016,
WN02-FP017, WN02-FP018, WN02-FP019
Report Number : BLA-EMC-202511-A3003
FCC ID : 2BHG9-WN02-FPL08
Date of Receipt : Nov. 19, 2025
Date of Test : Nov. 19, 2025 to Dec. 15, 2025
47 CFR Part 15, Part 1.1307
Test Standard : 47 CFR Part 15, Part 2.1091
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

Compiled by: *charlie* Review by: *Xavier* Approved by: *Blue Asia*
Issued Date: Dec. 16, 2025



BlueAsia Technical Services (Shenzhen) Co., Ltd

Address: No.41, South of Beihuan Road, Shangwu Community, Shiyuan
Subdistrict, Bao'an District, Shenzhen, Guangdong, China



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Revise Record

Version No.	Date	Description
01	Dec. 16, 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.
Factory	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	Ascent VRX
Model no.	WN02-FPL08
Series model	WN02-FP008, WN02-FP009, WN02-FPL09, WN02-FP012, WN02-FPL12, WN02-FP016, WN02-FP017, WN02-FP018, WN02-FP019
Differences of Series model	Their electrical circuit design layout, components used and internal wiring are identical, Only the model name, accessories and colors are different.
Power supply or adapter information	DC12V
Hardware version	N/A
Software version	N/A
Engineer sample no.	BLA-EMC-202511-A30

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

Operation Frequency	5740MHz~5805MHz
Modulation Type	OFDM (BPSK/QPSK/16QAM/ 64QAM)
Bandwidth	5MHz; 20MHz
Channel Spacing	>5MHz
Number of Channels	3
Antenna Type	External antenna
Antenna Gain	2.4dBi(Provided by customer)

Function	☐ SISO ☒ 2x2 MIMO ☐ TPC
Max. Field Strength	101.05dBuV/m@3m(Bandwidth 5MHZ)

BlueAsia

2 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

Company name:	BlueAsia Technical Services (Shenzhen) Co.,Ltd.
Address:	No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
Test Firm Registration Number:	923526
ISED CAB identifier No.:	CN0028
Company Number:	24243
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

3 RF Exposure Compliance Requirement

3.1 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.

3.2 Limits

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

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

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

$$\text{eirp} = \text{pt} \times \text{gt} = (\text{EXd})^2/30$$

where:

pt = transmitter output power in watts,

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

E = electric field strength in V/m, --- $10^{((\text{dBuV/m})/20)/10^6}$

d = measurement distance in meters (m)---3m

$$\text{Sopt} = (\text{EXd})^2/30 \times \text{gt}$$

BlueAsia Technical Services (Shenzhen) Co., Ltd

Tel: +86-755-23059481

Email: marketing@cblueasia.com www.cblueasia.com

Report version : V1.1

3.3 Result

Calculated Result and Limit (WORSE CASE IS AS BELOW)

Ant gain = 2.4 dBi

[0.25dBd(1.0593)]

Field strength = 101.05dBuV/m@3m(Bandwidth 5MHZ) @5805MHz

So $P_t = \{ [10^{(101.05/20)} / 10^6 \times 3]^2 / 30 \} \times 1000 \text{ mW} = 3.821 \text{ mW} < 3060 \text{ mW}$

So ERP = $3.821 \times 1.0593 = 4.047 < 3060 \text{ mW}$

Comply with RF exposure exemption limit.

----END OF REPORT----

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