

FCC RF Exposure Report

For

Shenzhen Efercro Electronic Technology Co., Ltd.

**ROOM 901, BLOCK E, BUILDING 1, SECTION 1, CHUANGZHI YUNCHENG, LIUXIAN AVE
NUE, XILI COMMUNITY, XILI STREET, NANSHAN DISTRICT, SHENZHEN**

Model: P3

Report Number: WSCT-ANAB-R&E251000079A

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Modified History

REV.	Modification Description	Issued Date	Remark
REV.1.0	Initial Test Report Release	19 November 2025	Li Huaibi

1 General information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in this test report. Shenzhen Timeway Testing Laboratories does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report is not to be reproduced or published in full without the prior written permission.

1.2 EUT Information

Device Information:	
Product Type:	Projector
Model:	P1,P2,P3,P3 PRO,P4,P5
Trade Name:	NA
Device Type:	Mobile device
Software Version	Android
Hardware Version	P3_MB_V1.1
Exposure Category:	uncontrolled environment / general population
Production Unit or Identical Prototype:	Production Unit
Antenna Type :	Integral Antenna
Operation Frequency:	2.4G WiFi: 2412MHz~2462MHz (802.11b/g/n/ax(HT20)) 2422MHz~2452MHz (802.11n/ax(HT40)) 5G WiFi: Band 1: 5180-5240 MHz Band 2: 5260-5320 MHz Band 3: 5500-5700 MHz Band 4: 5745-5825 MHz BT: 2402MHz~2480MHz
Antenna Gain:	2.4G WiFi&BT: 1.73dBi;5G WiFi: 2.1dBi
Modulation:	DSSS (DBPSK, DQPSK, CCK) for IEEE 802.11b OFDM(BPSK,QPSK,16QAM,64QAM) for IEEE 802.11g/n OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) for IEEE 802.11a/ac OFDM/OFDMA(BPSK,QPSK,16QAM,64QAM,256QAM,1024QAM) for IEEE 802.11ax GFSK, $\pi/4$ -DQPSK, 8-DPSK for BT
Operating Voltage:	Power Cord: LYX-1 Rated input voltage: 100V-240Vac, 50/60Hz Rated input current: 0.8A

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2. The antenna gain is provided by the customer. For any reported data issues caused by the antenna gain, World Standardization Certification&Testing Group (Shenzhen) Co., Ltd assumes no responsibility.

3. Among the series models P1,P2,P3,P3 PRO,P4,P5, P3 is the primary test model, and all test data originate from P3.

2 Testing laboratory

Test Site	World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.
Laboratory A:	Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China
TEL:	+86-755-26996192
FAX:	+86-755-86376605

3 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:2017.

USA	ANAB - Certificate Number: AT-3951
China	CNAS (Registration Number: L3732)
Canada	ISED(CAB identifier:CN0178)

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.wsct-cert.com>

4 Applicant and Manufacturer

Applicant/Client Name:	Shenzhen Efercro Electronic Technology Co., Ltd.
Applicant Address:	ROOM 901, BLOCK E, BUILDING 1, SECTION 1, CHUANGZHI YUNCHENG, LIUXIAN AVENUE, XILI COMMUNITY, XILI STREET, NANSHAN DISTRICT, SHENZHEN
Manufacturer Name:	Shenzhen Efercro Electronic Technology Co., Ltd.
Manufacturer Address:	ROOM 901, BLOCK E, BUILDING 1, SECTION 1, CHUANGZHI YUNCHENG, LIUXIAN AVENUE, XILI COMMUNITY, XILI STREET, NANSHAN DISTRICT, SHENZHEN

5 Test standard/s:

No.	Identity	Document Title
1	47 CFR Part 1.1307	Actions that may have a significant environmental effect
2	47 CFR Part 15C	Intentional Radiators

6 Test result

According to § 1.1307(b)(3)(i):

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

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

Where

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

and

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

d = the separation distance (cm);

Since the product is a stationary RF source, test distance greater than 20cm, Pth (mW)=3060

2.4G WIFI							
Mode	Channel	Freq.(MHz)	Conducted Peak power (dBm)	Antenna Gain	EIRP Power(dBm)	ERP Power(dBm)	Tune up
802.11b	1	2412	21.02	1.73	22.75	20.6	21.00
802.11b	6	2437	20.41	1.73	22.14	19.99	20.50
802.11b	11	2462	19.53	1.73	21.26	19.11	19.50
802.11g	1	2412	22.91	1.73	24.64	22.49	23.00
802.11g	6	2437	23.34	1.73	25.07	22.92	23.00
802.11g	11	2462	22.7	1.73	24.43	22.28	22.50
802.11n20	1	2412	22.87	1.73	24.6	22.45	23.00
802.11n20	6	2437	23.27	1.73	25	22.85	23.00
802.11n20	11	2462	22.58	1.73	24.31	22.16	22.50
802.11n40	3	2422	22.67	1.73	24.4	22.25	22.50
802.11n40	6	2437	23.22	1.73	24.95	22.8	23.00
802.11n40	9	2452	22.95	1.73	24.68	22.53	23.00
802.11ax20	1	2412	23.37	1.73	25.1	22.95	23.50
802.11ax20	6	2437	23.58	1.73	25.31	23.16	23.50
802.11ax20	11	2462	23.15	1.73	24.88	22.73	23.00
802.11ax40	3	2422	23.2	1.73	24.93	22.78	23.00
802.11ax40	6	2437	23.64	1.73	25.37	23.22	23.50
802.11ax40	9	2452	23.33	1.73	25.06	22.91	23.00

MAX EPR=23.50dBm≈223.87mw<3060

BT&BLE							
Mode	Channel	Freq.(MHz)	Conducted Peak power (dBm)	Antenna Gain	EIRP Power(dBm)	ERP Power(dBm)	Tune up
GFSK	0	2402	8.73	1.73	10.46	8.31	8.50
GFSK	39	2441	8.89	1.73	10.62	8.47	9.00
GFSK	78	2480	8.81	1.73	10.54	8.39	8.50
Pi/4DQPSK	0	2402	7.46	1.73	9.19	7.04	7.50
Pi/4DQPSK	39	2441	7.68	1.73	9.41	7.26	7.50
Pi/4DQPSK	78	2480	7.41	1.73	9.14	6.99	7.50
8DPSK	0	2402	8.24	1.73	9.97	7.82	8.00
8DPSK	39	2441	8.48	1.73	10.21	8.06	8.50
8DPSK	78	2480	8.41	1.73	10.14	7.99	8.50
BLE 1M	0	2402	7.82	1.73	9.55	7.4	7.50
BLE 1M	19	2441	8.05	1.73	9.78	7.63	8.00
BLE 1M	39	2480	7.95	1.73	9.68	7.53	8.00
BLE 2M	0	2402	7.76	1.73	9.49	7.34	7.50
BLE 2M	19	2441	7.97	1.73	9.7	7.55	8.00
BLE 2M	39	2480	7.90	1.73	9.63	7.48	8.00

MAX ERP=9.00dBm≈7.94mw<3060

5G WIFI						
Mode	Freq.(MHz)	Conducted Peak power (dBm)	Antenna Gain	EIRP Power(dBm)	ERP Power(dBm)	Tune up
a	5180	14.62	2.1	16.72	14.57	15.00
a	5240	14.71	2.1	16.81	14.66	15.00
a	5260	15.59	2.1	17.69	15.54	16.00
a	5320	14.91	2.1	17.01	14.86	15.00
a	5500	18	2.1	20.1	17.95	18.00
a	5700	16.41	2.1	18.51	16.36	16.50
a	5745	15.59	2.1	17.69	15.54	16.00
a	5825	14.62	2.1	16.72	14.57	15.00
n20	5180	14.45	2.1	16.55	14.4	14.50
n20	5240	14.47	2.1	16.57	14.42	14.50
n20	5260	15.48	2.1	17.58	15.43	15.50
n20	5320	14.58	2.1	16.68	14.53	15.00
n20	5500	17.88	2.1	19.98	17.83	18.00
n20	5700	16.29	2.1	18.39	16.24	16.50
n20	5745	15.12	2.1	17.22	15.07	15.50
n20	5825	14.67	2.1	16.77	14.62	15.00
n40	5190	17.6	2.1	19.7	17.55	18.00
n40	5230	14.81	2.1	16.91	14.76	15.00
n40	5270	15.78	2.1	17.88	15.73	16.00
n40	5310	15.18	2.1	17.28	15.13	15.50
n40	5510	17.93	2.1	20.03	17.88	18.00
n40	5670	16.59	2.1	18.69	16.54	17.00
n40	5755	16.06	2.1	18.16	16.01	16.50
n40	5795	15.82	2.1	17.92	15.77	16.00
ac20	5180	15.41	2.1	17.51	15.36	15.50
ac20	5240	14.63	2.1	16.73	14.58	16.00
ac20	5260	15.42	2.1	17.52	15.37	15.50
ac20	5320	14.61	2.1	16.71	14.56	15.00
ac20	5500	17.92	2.1	20.02	17.87	18.00
ac20	5700	16.28	2.1	18.38	16.23	16.50
ac20	5745	15.97	2.1	18.07	15.92	16.00
ac20	5825	15.06	2.1	17.16	15.01	15.50
ac40	5190	15.6	2.1	17.7	15.55	16.00
ac40	5230	15.19	2.1	17.29	15.14	15.50
ac40	5270	15.03	2.1	17.13	14.98	15.50
ac40	5310	14.98	2.1	17.08	14.93	15.00
ac40	5510	17.86	2.1	19.96	17.81	18.00
ac40	5670	16.54	2.1	18.64	16.49	17.00
ac40	5755	16.33	2.1	18.43	16.28	16.50
ac40	5795	15.72	2.1	17.82	15.67	16.00
ax20	5180	15.94	2.1	18.04	15.89	16.00
ax20	5240	14.87	2.1	16.97	14.82	15.00
ax20	5260	15.13	2.1	17.23	15.08	15.50
ax20	5320	14.69	2.1	16.79	14.64	15.00
ax20	5500	18.04	2.1	20.14	17.99	18.50
ax20	5700	16.65	2.1	18.75	16.6	17.00
ax20	5745	15.96	2.1	18.06	15.91	16.00
ax20	5825	15.26	2.1	17.36	15.21	15.50
ax40	5190	15.46	2.1	17.56	15.41	15.50
ax40	5230	15.47	2.1	17.57	15.42	15.50
ax40	5270	15.56	2.1	17.66	15.51	16.00
ax40	5310	14.77	2.1	16.87	14.72	15.00
ax40	5510	17.7	2.1	19.8	17.65	18.00
ax40	5670	16.51	2.1	18.61	16.46	17.00
ax40	5755	16.43	2.1	18.53	16.38	16.50
ax40	5795	15.94	2.1	18.04	15.89	16.00

MAX ERP=18.50dBm≈70.79mw<3060

Taking into account the possibility of simultaneous activation by WIFI and BT

Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluated k term) shall be used to determine exemption for simultaneous transmission according to Formula

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Note

- a number of fixed, mobile, or portable RF sources claiming exemption using the § 1.1307(b)(3)(i)(B) formula for P_{th} , including existing exempt transmitters and those being added.
- b number of fixed, mobile, or portable RF sources claiming exemption using the applicable § 1.1307(b)(3)(i)(C) Table 1 formula for Threshold ERP, including existing exempt transmitters and those being added
- c number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance.
- P_i the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).
- $P_{th,i}$ the exemption threshold power (P_{th}) according to the § 1.1307(b)(3)(i)(B) formula for fixed, mobile, or portable RF source i.
- ERP_j the available maximum time-averaged power or the ERP, whichever is greater, of fixed, mobile, or portable RF source j.
- $ERP_{th,j}$ exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$, according to the applicable § 1.1307(b)(3)(i)(C) Table 1 formula at the location in question.
- Evaluated the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation.
- Exposure Limit_k either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable sources, as applicable

According to the above description, the worst-case scenario is a simultaneous transmission using 2.4G WiFi, 5G WiFi and BT. Selected the maximum ERP value of each module for consideration.

therefore

$$a=3, b=0, c=0$$

According to the above formula and description

$$(223.87/3060 + 7.94/3060 + 70.79/3060) \approx 0.099 < 1$$

7 Conclusion

The test result is passed.

--END OF REPORT--