FCC RF Exposure

Applicant	:	Guangzhou Xingchao Vision Electronics Co., Ltd.
Address	:	Room 503, Health City, No. 321, Fushi Road, Dashi Street, Panyu District, Guangzhou City, China
Product Name	:	ELECTRIC GUITAR AMP
Brand Mark	:	VELOSON
Model	:	SF-10
Series model	:	N/A
FCC ID	:	2BWSK-SF-10
Report Number	:	BLA-EMC-202606-A48-02
Date of Receipt	:	Jun. 12, 2026
Date of Test	:	Jun. 12, 2026 to Jun. 25, 2026
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 **Approved by:** Blue Zheng

Issued Date: Jun. 25, 2026

BlueAsia Technical Services (Shenzhen) Co.,Ltd. BLA

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Revise Record

Version No.	Date	Description
01	Jun. 25, 2026	Original

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1 General information

1.1 General information

Applicant	Guangzhou Xingchao Vision Electronics Co., Ltd.
Address	Room 503, Health City, No. 321, Fushi Road, Dashi Street, Panyu District, Guangzhou City, China
Manufacturer	Guangzhou Xingchao Vision Electronics Co., Ltd.
Address	Room 503, Health City, No. 321, Fushi Road, Dashi Street, Panyu District, Guangzhou City, China
Factory	Guangzhou Xingchao Vision Electronics Co., Ltd.
Address	Room 503, Health City, No. 321, Fushi Road, Dashi Street, Panyu District, Guangzhou City, China

1.2 General description of EUT

Product name	ELECTRIC GUITAR AMP
Model no.	SF-10
Operation Frequency	2402MHz-2480MHz
Modulation Type	GFSK, π/4-DQPSK, 8DPSK
Rate data	1Mbps, 2Mbps, 3Mbps
Channel Spacing	1MHz
Number of Channels	79
Antenna Type	PCB antenna
Antenna Gain	-0.58dBi (Provided by customer)
Power supply	Battery DC 3.7V
Test Voltage	DC 3.7V
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.	

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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

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

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

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

2.3 Result

EIRP = pt x gt = (E X 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)

Spot = (EXd)2/30 x gt
Separation distance= 0.5cm
Antenna Gain: -0.58dBi

For BT (Worst) :8DPSK
Max Output power = **2.306dBm** @ 2441MHz
EIRP = 2.306dBm-0.58dBi= 1.726dBm, because Max Output power > EIRP
So, ERP = 2.306-2.15= 0.156dBm=1.037mW< 2.752 mW
it's deemed to fulfil the RF exposure requirement.

----END OF REPORT----

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