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RF Exposure Evaluation

FCC ID: 2A7ZM-X6MICROPHONE

1. Client Information

Applicant	:	JBU GLOBAL LLC			
Address		19416 NE 26th Ave, 114B, Miami, Florida 33180			
Manufacturer		GUANGZHOU MIAOSHENG ELECTRONIC TECHNOLOGY Co., LTD			
Address :		1-2, second floor West Street Watermelon Ridge Dongguan village Xinya Street Huadu District, Guangzhou,China			

2. General Description of EUT

EUT Name	1	ALTO X6 microphone					
Model(s)	:	ALTO X6 microphone, Allegro X8 microphone					
Model Difference		All these models are ide circuit, the only differen	entical in the same PCB layout and electrical ce is that names.				
		Operation Frequency:	941.6MHz~945.8MHz				
Product Description		Number of Channel:	15 Channels -9dBi PCB Antenna				
		Antenna Gain:					
		Modulation Type:	FM				
Power Rating	(1)	DC 3.0V by AA battery*2					
Software Version	1						
Hardware Version	:						
Connecting I/O Port(S)	:	Please refer to the User's Manual					

Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.

Note: More test information about the EUT please refer the RF Test Report.

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The RF Exposure Evaluation for FCC:

SAR Test Exclusion Calculations

FCC: According to 447498 D04 Interim General RF Exposure Guidance v01.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula (B.2).

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

where

$$\chi = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

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



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1. Calculation:

Test separation: 5mm							
Frequency (MHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mW)	Limit P _{th} (mW)		
941.6	-3.754	-3±1	-2	0.631	3		
943.7	-3.764	-3±1	-2	0.631	3		
945.8	-3.776	-3±1	-2	0.631	3		

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D04, No SAR is required.

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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