# Appendix B

Report No.:	CISRR24062418302
FCC ID:	2A5TA-AM-2301
Product Name:	Wireless speaker
Model No.:	AM-2301
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

# 1) Conducted Peak Output Power

# **Test Result**

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
GFSK	LE	0	-0.02	1.0	30	PASS
		19	0.63	1.16		PASS
		39	1.59	1.44		PASS



# 2) 99% Bandwidth

### Test Result

Mode	Channel	99% BW (MHz)
LE	0	1.0534
LE	19	1.0606
LE	39	1.0748





# 3) 6dB Bandwidth

### **Test Result**

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
LE	0	2402	0.6800	0.5	PASS
	19	2440	0.6800		PASS
	39	2480	0.6900		PASS



# 4) Conducted Out Of Band Emission

Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
LE	0	2400.00	-48.533	-20.19	-28.343	PASS
		9608.08	-47.901	-20.19	-27.711	PASS
	19	9760.39	-46.554	-19.52	-27.034	PASS
	39	2483.50	-50.331	-18.57	-31.761	PASS
		4960.33	-45.286	-18.57	-26.716	PASS





LE\_Channel 39

 
 Spectrum

 Ref Level
 12.91 dBm
 Offset
 9.72 dB
 RBW
 100 kHz

 Att
 20 dB
 SWT
 250 ms
 VBW
 300 kHz
 Mode
 Sweep

 SGL Count 10/10
 IPK Max
 Intervention
 Intervention

 Ref Level
 15.00 dBm
 Offset
 9.57 dB
 RBW
 100 kHz

 Att
 25 dB
 SWT
 1 ms
 VBW
 300 kHz
Mode Sweep SGL 9 1Pk Ma: 0.85 dBn 2.48026910 GH 10 dBm-10 dBm-M1[1] -41.05 dBr 9.760393 GH мз 0 dBm ) dBr -10 dBr -10 dBm -20 dBm-D1 -19.1 -20 dBm--30 dBm--30 dBm -40 dBm-40 dBm -50 dBm--50 dBm-110 -60 dBm-A house -70 dBm-70 dBm -80 dBm-CF 2.48 GH 691 pt .005 MHz 80 dBn Snan LXI Start 30.0 MH: 30000 pts Stop 25.0 GHz Date: 18.MAY.2024 01:23:38 Date: 18.MAY.2024 01:20:59 **Spurious Emissions In-Band Reference Level** LE\_Channel 19 LE\_Channel 39 
 Ref Level
 15.00
 dBm
 Offset
 9.59
 dB
 RBW
 100
 Hz

 Att
 25
 dB
 SWT
 1 ms
 VBW
 300
 Hz
 Mode
 Sweep

 Spectrum

 Ref Level
 12.75 dBm
 Offset
 9.56 dB
 RBW
 100 kHz

 Att
 2 dB
 SWT
 250 ms
 VBW
 300 kHz
 Mode
 Sweep

 SGL Count 10/10
 Image: Count 10/10
 Spectrum SGL 91Pk Max M2[1] -51.97 di 10 dBm-2.4835000 G -39.41 dBm 9.920201 GHz 0 dBr 0 dBm -10 dBm -10 dBm· -211 dBm-D1 -19.15 D1 -19.15 -20 dBm--30 dBn -30 dBm-40 dBm -40 dBm 50 dBm -50 dBm--60 dBm white الارشاقية الرالا -70 dBm 70 dBm--80 dBm 10.0 MHz CF 2.4835 GH 691 Sna -80 dBm-LX 30000 pts 25.0 GHz Start 30.0 MH Stop Date: 18.MAY.2024 01:23:57 44 Date: 18.MAY.2024 01:24:20 **Out Of Band Emission Spurious Emission** 

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# 5) Duty Cycle

### **Test Result**

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
	0	2.126	2.499	85.10	0.8510	0.7007	0.47
LE	19	2.126	2.499	85.10	0.8510	0.7007	0.47
	39	2.127	2.500	85.10	0.8510	0.7007	0.47







# 6) Power Spectral Density

### **Test Result**

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
LE	0	-16.324	8	PASS
LE	19	-15.812	8	PASS
LE	39	-15.040	8	PASS

