

Report No.: TW2307227E

Applicant: LEADER PREMIUMS LIMITED

Product: SPEAKER

Model No.: AE0288

Trademark: N/A

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Terry Tang

Manager

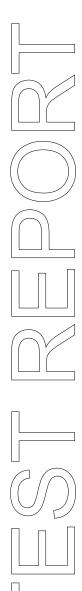
Dated: July 28, 2023

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

### SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Report No.: TW2307227E Page 2 of 42

Date: 2023-07-28



## **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

### FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

## Industry Canada (IC) — Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

#### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

Report No.: TW2307227E

Date: 2023-07-28



## Test Report Conclusion

#### Content 1.0 General Details.... 1.1 Test Lab Details 1.2 Applicant Details.... 4 1.3 Description of EUT 1.4 Submitted Sample.... 4 1.5 Test Duration. 5 1.6 Test Uncertainty. 1.7 Test By..... 5 2.0 List of Measurement Equipment 3.0 7 Technical Details..... Summary of Test Results.... 7 3.1 3.2 7 Test Standards 4.0 EUT Modification 7 Power Line Conducted Emission Test. 5.0 8 5.1 Schematics of the Test. 8 5 2 Test Method and Test Procedure. 8 Configuration of the EUT..... 5.3 5.4 EUT Operating Condition. Conducted Emission Limit. 5.5 9 5.6 Test Result. 6.0 Radiated Emission test 12 Test Method and Test Procedure. 6.1 12 6.2 Configuration of the EUT.... 13 6.3 EUT Operation Condition. 13 6.4 Radiated Emission Limit. 13 6.5 Test Result. 15 7.0 Band Edge 23 7.1 Test Method and Test Procedure. 23 7.2 Radiated Test Setup. 23 7.3 Configuration of the EUT.... 23 7.4 EUT Operating Condition. 23 7.5 Band Edge Limit. 23 7.6 Band Edge Test Result. 24 8.0 Antenna Requirement 28 20dB bandwidth measurement 9.0 29 FCC ID Label 10.0 35 Photo of Test Setup and EUT View.... 36 11.0

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Date: 2023-07-28



#### 1.0 General Details

#### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

#### 1.2 Applicant Details

Applicant: LEADER PREMIUMS LIMITED

Address: ROOM 901, HENGFU MANSION, NO.858, FUMINGROAD, NINGBO, CHINA

Telephone: -Fax: --

#### 1.3 Description of EUT

Product: SPEAKER

Manufacturer: LEADER PREMIUMS LIMITED

Address: ROOM 901, HENGFU MANSION, NO.858, FUMINGROAD, NINGBO,

**CHINA** 

Trademark: N/A
Model Number: AE0288
Additional Model Name N/A

Rating: Input: 5V, 500mA, 5W Max
Battery: DC3.7V, 500mAh Li-ion battery
Modulation Type: GFSK, J/4DQPSK for Bluetooth

Operation Frequency: 2402-2480MHz

Channel Number: 79
Channel Separation: 1MHz

Hardware Version: Wireless charging pad-AE0288 Software Version: Software: leader.2023.07

Serial No.: N/A

Antenna Designation PCB antenna with gain -0.58dBi Max (Get from the antenna specification)

#### 1.4 Submitted Sample: 3 Samples

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Report No.: TW2307227E Page 5 of 42

Date: 2023-07-28



1.5 Test Duration 2023-07-12 to 2023-07-28

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing

Page 6 of 42

Report No.: TW2307227E

Date: 2023-07-28



2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2023-07-14	2024-07-13
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2023-07-14	2024-07-13
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2023-07-14	2024-07-13
RF Cable	Zhengdi	7m		2023-07-14	2024-07-13
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13

#### 2.2 Automation Test Software

#### For Conducted Emission Test

Name	Version		
EZ-EMC	Ver.EMC-CON 3A1.1		

#### For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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Report No.: TW2307227E Page 7 of 42

Date: 2023-07-28



#### 3.0 Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies

#### 3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

#### 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

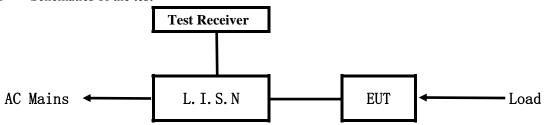
Report No.: TW2307227E

Date: 2023-07-28



#### 5.0 Power Line Conducted Emission Test

#### 5.1 Schematics of the test

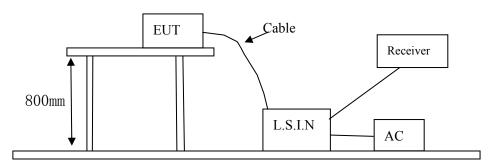


**EUT: Equipment Under Test** 

#### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



#### 5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

## A. EUT

Device	Manufacturer	Model	FCC ID	
SPEAKER	LEADER PREMIUMS LIMITED	AE0288	2APYY-AE0288	

Report No.: TW2307227E Page 9 of 42

Date: 2023-07-28



#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

#### C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;
			Output: DC5V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB $\mu$ V)			
(MHz)	Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	56.0	46.0		
5.00 ~ 30.00	60.0	50.0		

Notes:

- 1. \*Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies
- 5.6 Test Results:

Date: 2023-07-28



#### A: Conducted Emission on Live Terminal (150kHz to 30MHz)

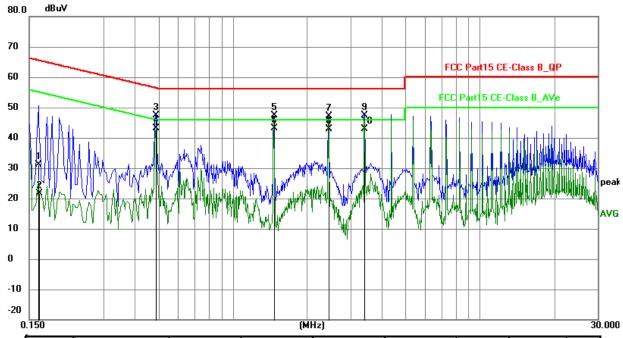
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging + Communication by BT** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1640	21.40	9.78	31.18	65.26	-34.08	QP	Р
2	0.1650	11.92	9.77	21.69	55.21	-33.52	AVG	Р
3	0.4880	37.72	9.77	47.49	56.20	-8.71	QP	Р
4	0.4880	33.43	9.77	43.20	46.20	-3.00	AVG	Р
5	1.4650	37.63	9.79	47.42	56.00	-8.58	QP	Р
6	1.4650	33.45	9.79	43.24	46.00	-2.76	AVG	Р
7	2.4400	37.36	9.82	47.18	56.00	-8.82	QP	Р
8	2.4420	33.18	9.82	43.00	46.00	-3.00	AVG	Р
9	3.4170	37.40	9.86	47.26	56.00	-8.74	QP	Р
10	3.4170	32.93	9.86	42.79	46.00	-3.21	AVG	Р

Date: 2023-07-28



#### B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

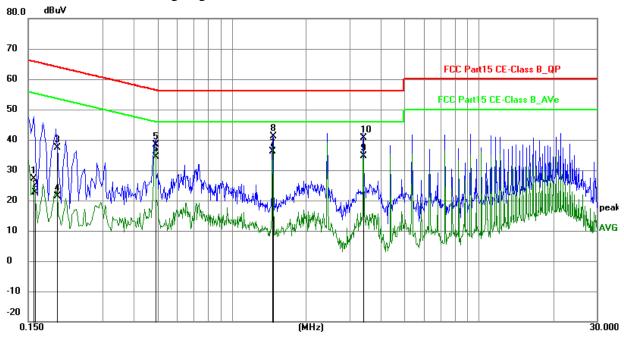
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging + Communication by BT** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1580	17.42	9.78	27.20	65.57	-38.37	QP	Р
2	0.1600	12.89	9.78	22.67	55.46	-32.79	AVG	Р
3	0.1960	27.74	9.75	37.49	63.78	-26.29	QP	Р
4	0.1960	11.55	9.75	21.30	53.78	-32.48	AVG	Р
5	0.4910	28.54	9.77	38.31	56.15	-17.84	QP	Р
6	0.4910	24.73	9.77	34.50	46.15	-11.65	AVG	Р
7	1.4630	26.25	9.79	36.04	46.00	-9.96	AVG	Р
8	1.4650	31.34	9.79	41.13	56.00	-14.87	QP	Р
9	3.4160	24.79	9.86	34.65	46.00	-11.35	AVG	Р
10	3.4170	30.74	9.86	40.60	56.00	-15.40	QP	Р

Report No.: TW2307227E

Date: 2023-07-28

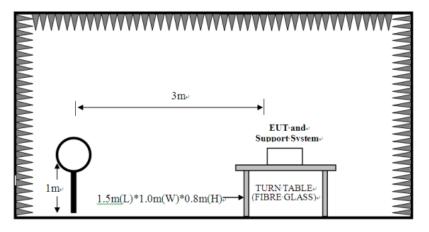


#### **6** Radiated Emission Test

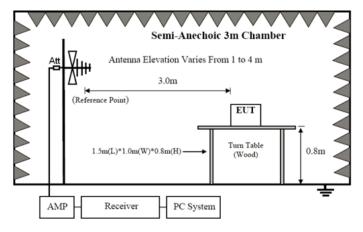
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 9kHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

#### **Block diagram of Test setup**

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



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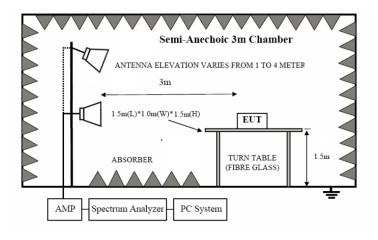
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Report No.: TW2307227E

Date: 2023-07-28



For radiated emissions above 1GHz



- 6.2 Configuration of the EUT
  Same as section 5.3 of this report
- 6.3 EUT Operating Condition
  Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

#### A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Strength of Fundamental (3m)			Field S	trength of Harmo	nics (3m)
(MHz)	mV/m	dBuV/m		uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

Report No.: TW2307227E Page 14 of 42

Date: 2023-07-28



#### B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-80	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. The two modulation modes of GFSK and Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.
- 6. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 7. Battery fully charged was used during the test.

Report No.: TW2307227E Page 15 of 42

Date: 2023-07-28

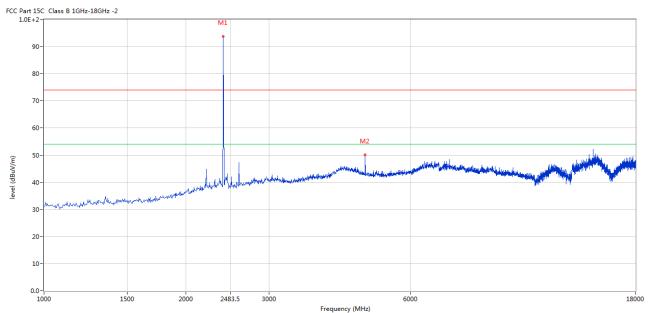


#### 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

#### Horizontal



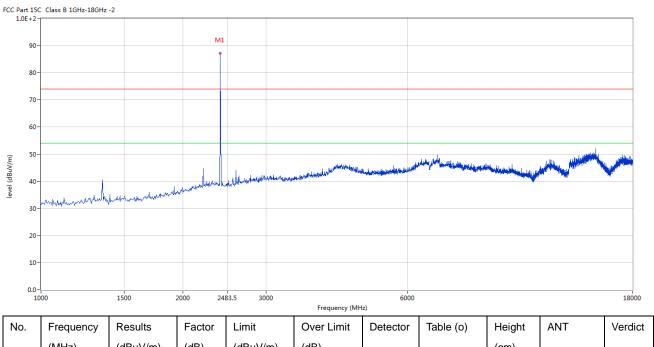
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	93.70	-3.57	114.0	-20.30	Peak	164.00	100	Horizontal	Pass
1*	2402	84.15	-3.57	94.0	-9.85	AV	164.00	100	Horizontal	Pass
2	4802.799	50.03	3.12	74.0	-23.97	Peak	154.00	100	Horizontal	Pass

Page 16 of 42 Report No.: TW2307227E

Date: 2023-07-28



#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	87.28	-3.57	114.0	-26.72	Peak	178.00	100	Vertical	Pass

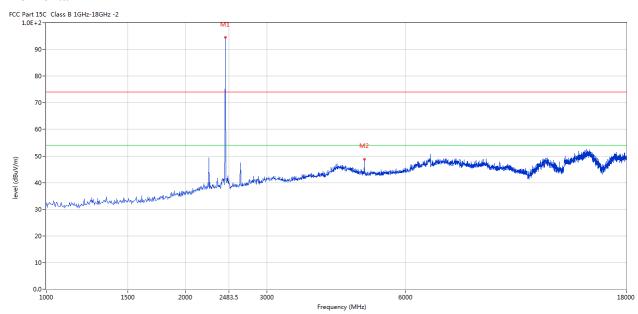
Report No.: TW2307227E Page 17 of 42

Date: 2023-07-28



Please refer to the following test plots for details: Middle Channel-2441MHz

#### **Horizontal**



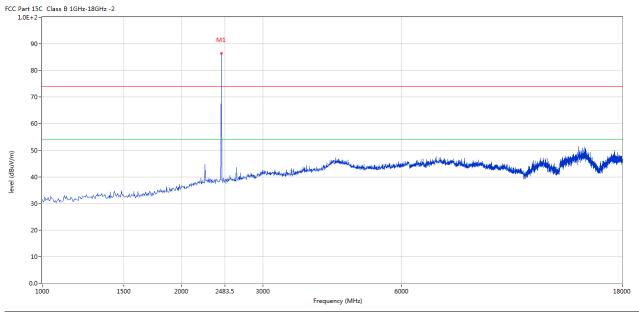
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	94.50	-3.57	114.0	-19.50	Peak	98.00	100	Horizontal	Pass
1*	2441	85.21	-3.57	94.0	-8.79	AV	98.00	100	Horizontal	Pass
2	4883.529	48.80	3.20	74.0	-25.20	Peak	250.00	100	Horizontal	Pass

Report No.: TW2307227E Page 18 of 42

Date: 2023-07-28



#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	86.51	-3.57	114.0	-27.49	Peak	178.00	100	Vertical	Pass

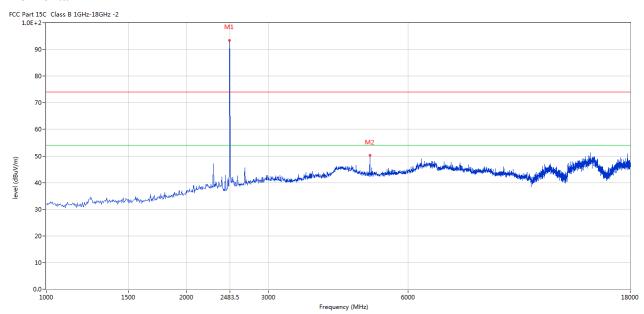
Report No.: TW2307227E Page 19 of 42

Date: 2023-07-28



Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	93.49	-3.57	114.0	-20.51	Peak	84.00	100	Horizontal	Pass
1*	2480	84.71	-3.57	94.0	-9.29	AV	84.00	100	Horizontal	Pass
2	4960.010	50.24	3.36	74.0	-23.76	Peak	133.00	100	Horizontal	Pass

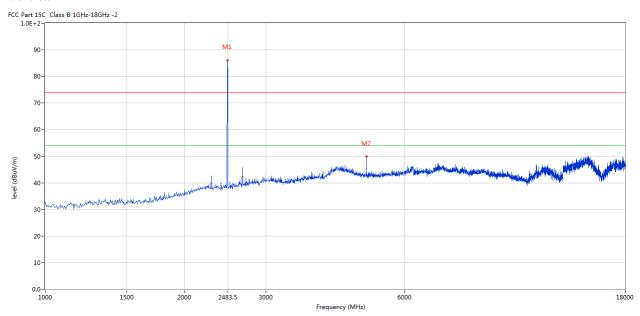
Page 20 of 42

Report No.: TW2307227E

Date: 2023-07-28



#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	86.14	-3.57	114.0	-27.86	Peak	41.00	100	Vertical	Pass
2	4960.010	49.82	3.36	74.0	-24.18	Peak	86.00	100	Vertical	Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (2) Margin=Emission-Limits
- (3) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (4) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.
- (6) the measured PK value less than the AV limit.

Report No.: TW2307227E Page 21 of 42

Date: 2023-07-28

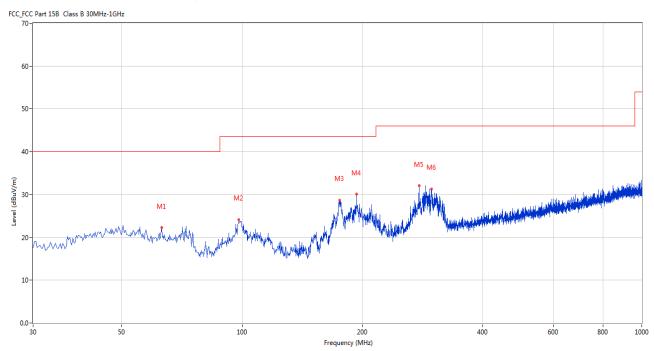


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	62.972	22.30	-13.31	40.0	17.70	Peak	2.00	100	Horizontal	Pass
2	98.125	24.18	-13.73	43.5	19.32	Peak	159.00	100	Horizontal	Pass
3	175.464	28.74	-15.57	43.5	14.76	Peak	195.00	100	Horizontal	Pass
4	193.404	30.10	-13.87	43.5	13.40	Peak	81.00	100	Horizontal	Pass
5	277.046	32.07	-11.54	46.0	13.93	Peak	84.00	100	Horizontal	Pass
6	297.653	31.34	-11.13	46.0	14.66	Peak	89.00	100	Horizontal	Pass

Report No.: TW2307227E Page 22 of 42

Date: 2023-07-28

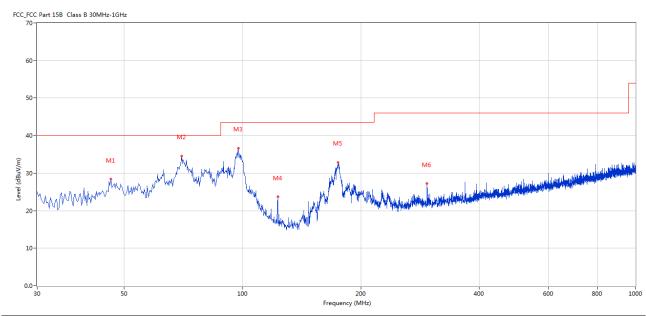


#### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	46.243	28.36	-11.41	40.0	11.64	Peak	259.00	100	Vertical	Pass
2	70.002	34.57	-15.67	40.0	5.43	Peak	273.00	100	Vertical	Pass
3	97.641	36.68	-13.79	43.5	6.82	Peak	3.00	100	Vertical	Pass
4	122.854	23.70	-15.86	43.5	19.80	Peak	353.00	100	Vertical	Pass
5	174.736	32.89	-15.73	43.5	10.61	Peak	183.00	100	Vertical	Pass
6	294.744	27.22	-11.18	46.0	18.78	Peak	291.00	100	Vertical	Pass

Report No.: TW2307227E Page 23 of 42

Date: 2023-07-28

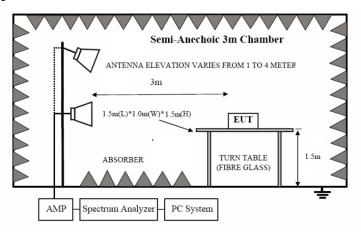


#### 7. Band Edge

#### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

#### 7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

### 7.3 Configuration of the EUT

Same as section 5.3 of this report

#### 7.4 EUT Operating Condition

Same as section 5.4 of this report.

#### 7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

The report refers only to the sample tested and does not apply to the bulk.

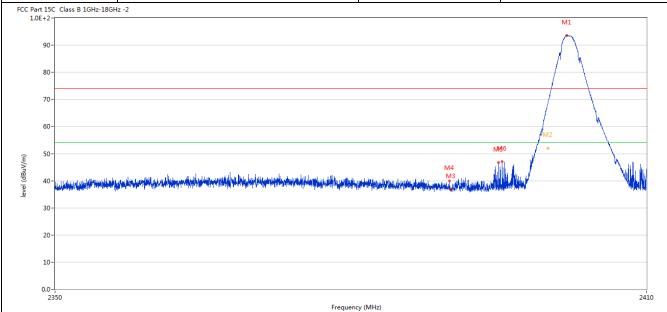
Report No.: TW2307227E Page 24 of 42

Date: 2023-07-28



#### 7.6 Test Result

Product:	SPEAKER	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
FCC Part 15C Class B 1GHz-18GH	z -2		M1



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.827	93.58	-3.57	74.0	19.58	Peak	158.00	100	Horizontal	N/A
2	2400.012	67.83	-3.57	74.0	-6.17	Peak	81.00	100	Horizontal	Pass
2**	2400.012	51.73	-3.57	54.0	-2.27	AV	81.00	100	Horizontal	Pass
3	2390.000	36.73	-3.53	74.0	-37.27	Peak	122.00	100	Horizontal	Pass
4	2389.845	40.00	-3.53	74.0	-34.00	Peak	66.00	100	Horizontal	Pass
5	2394.854	46.73	-3.55	74.0	-27.27	Peak	81.00	100	Horizontal	Pass
6	2395.214	47.07	-3.55	74.0	-26.93	Peak	81.00	100	Horizontal	Pass

Report No.: TW2307227E Page 25 of 42



]	Product:		SPEA	KER		Detect	tor		Vertical	
	Mode	k	Leeping Tra	ansmitting		Test Vol	tage	]	DC3.7V	
Te	mperature		24 deg	g. C,		Humid	lity	4	56% RH	
	est Result:		Pas							
C Part	15C Class B 1GHz-18GHz	-2								
1.064									M1	
ġ	90-								MI	
8	80-									
	70-									
								$\int$		
,	50-									
	50-							M2	$\longrightarrow$	
							144	M5 # *	1	
4	40 -	and the second of the second o	ارتفا ريايس أنافري وينافران الأرادا	والمساور والمساور والمناور والمناول	والمراورة	M manuficiana ka kuci		M5 °		المسالم
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ŝ	material and anti-	ire, edinine deciric hop in ibudan kolora	h lighter medilingsin, med	dikarayandikaringkarikanan	n Nyral nijih sidi u ti shikan na katalakana	M wasinifyafa asafahan hindon	2	_ ₩		Water Marie
3	30	fts, elejakus, liejakus, liejakus, liejakus, liejakus, liejakus, liejakus, liejakus, liejakus, liejakus, lieja	k lis tigek er sydfolomyse, beg k	सिर्वेशकारम्बारको के श्रेष्ट के क्षेत्रको कराने क	nikyril nijbajdi Alfolon nepa Alfolon	M	2	_ ₩		Mary Mary Mary Mary Mary Mary Mary Mary
2	20-	ire, edukar da deki kupi du da da nek kwa	k his bashur angkishumatan Mar k	-विभिन्नका सुरक्षा ने किया है जा है जो है जा है जो है जा है	ndy Waiffadd whitefan sa <u>a shiftaa</u>	M anasathulasatha Asate	2	_ ₩		
2	20-	ire, edipina disensi kapi da desembelare.	k hiji birilara sayatida masa na baga b		Frequency (MHz)	M anasaribula analyan kasalua	2	_ ₩		a a
: 0	20-	Results	Factor			Detector	2	_ ₩	ANT	1
3	20				Frequency (MHz)	ere	3 historian	illianis de la constantis de la constant	ANT	1
0 No.	20- 10- 2350 Frequency	Results	Factor	Limit	Frequency (MHz)  Over Limit	ere	Table	Height	ANT Vertical	1
1 0 <b>No.</b>	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz)  Over Limit  (dB)	Detector	Table (o)	Height (cm)		Verd
	Frequency (MHz) 2402.127	Results (dBuV/m) 87.16	Factor (dB)	Limit (dBuV/m) 74.0	Over Limit (dB)	Detector Peak	Table (o) 190.00	Height (cm)	Vertical	Verdi N/A Pass
0 No.	Frequency (MHz) 2402.127 2400.008	Results (dBuV/m) 87.16 60.54	Factor (dB) -3.57	Limit (dBuV/m) 74.0 74.0	Over Limit (dB) 13.16 -13.46	Detector Peak Peak	Table (o) 190.00 164.00	Height (cm) 100 100	Vertical Vertical	Verdi N/A Pass Pass Pass
; ;	Frequency (MHz) 2402.127 2400.008 2400.008	Results (dBuV/m) 87.16 60.54 46.82	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0	Over Limit (dB) 13.16 -13.46 -7.18	Detector Peak Peak AV	Table (o) 190.00 164.00	Height (cm) 100 100	Vertical Vertical Vertical	Verdi N/A Pass Pass

Report No.: TW2307227E Page 26 of 42



]	Product:		SI	PEAKER			Polari	ty	Horizo	ntal
	Mode		Keepin	g Transmittir	ng		Test Vol	tage	DC3.7	7V
Те	mperature		2	4 deg. C,			Humid	ity	56% F	RH
Τe	est Result:			Pass						
C Part 1 1.0E+	15C Class B 1GHz-18GHz	-2	M	1						
	30-									
7	70-									
6	50 -		/							
		/	,	'n	<b>S</b>					
	50-			M	Markhampanakka kul slud	lulu a				
		A HARALAN MARKAN	,	M2	The same of the sa				glicolystowerzylskowynykstywia	
5	50-	A HARMAN MARKAN	,	M	And the second s		a pinas par de di		akarishi kunsaki kunsaki kisi pen	ind J. Parks of J. Co.
5 4 4 3	50- 40-	A Mile Market Brown	,	M3	And the second				akasishani,hipmashidirra	den jarok den ja
(iii/Ango) 19A0 4	40 - 144 - 1	A Marie Mari		M	A Company of the second		aphorium de 18 aphille de	ne produce de la constitución de l	oktopijaturusi oki konsepljatojism	The state of the s
(ш/Anggp) 44	40-1444-1444-1444-1444-1444-1444-1444-1	A Maria de la companya de la company		M	Andrew Company of the		a dina tina dini di di pidali la la	ngga binnassa benga	gila di Artina di Ar	
(w/nngp) avai 3 2 2 1 1 0.	40 - 144 - 1			248			adina in diel il die diele lee	u paka hipatika (diseberapa	oka Nekarat, keparajika 1944	
(im/yout) 19491 3 2 2 1 1 0.	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Results	Factor	•	3.5	Detector	Table	Height	ANT	ı
(iii/angg) baasi 3 2 2 1 0.	40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -	Results (dBuV/m)	Factor (dB)	248:	3.5 Frequency (MHz)	The state of the s	A A I I	Height (cm)	ANT	ı
1 1 0. No.	40- 40- 30- 10- 2470 Frequency			248:	3.5 Frequency (MHz)	The state of the s	Table	_	ANT Horizontal	Verd
(µ/\nngn) ia\nai	10- 10- 20- 10- 2470 Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	0.5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)		Verd

Report No.: TW2307227E Page 27 of 42

Date: 2023-07-28



1	Product:			SPEAKER		Detecto	or	Vertical			
	Mode		Keepi	ng Transmitti	ing		Test Volt	age	DC3.7	DC3.7V	
Te	emperature 24 deg. C,						Humidi	ty	56% RH		
Te	est Result:			Pass							
CC Part	t 15C Class B 1GHz-18G	Hz -2				•					
			M1								
	90-		MI Jana	~~~~							
	80-										
	70-										
	60-										
				\ M2							
	50-			M							
	50-				<b>M</b>						
	50 -	in the state of th		M	Who have been a factor of the state of the s	ghould have been supplied by	lácorna hrá <b>d</b> toglog áragastifi	Lupada yilki ayga salifi sala da	يندنينينه بنطقهم إبالإنام الإبراق والمراق	<del>48444</del> 4.a44.e	
level (dbuV/m)	40	interaction and the strength of		M	No. of the second second	of and beginning to a string little	datarinas de deflicendas partico	Lepad Affraga villy air est la jus	يغونهراه والمغام والمايان والموافرة	<del>VIII ja </del>	
level (dBuV/m)	40-	المرافق والمستعدد والمستعد والمستعدد والمستعد والمستعدد	/		No the Control of the	deather ann an air heartha	this o'use in the things to a gradient	la parti pilit saga nilit pilit talah da	ىلىدىلەرلىرىلىدىدە ئەرىلىدىلىدىلىدىلىدىلىدىلىدىلىدىلىدىلىدىلى	<del>Walley Ladio</del>	
level (dbuV/m)	40	interphetrise, ships see paid			and the second desired	dent bedroom, den eiden best	discount of the samples	kajadi ipilikanga nilipinakat dalah ka	stranson, idan, iliyoluda <mark>d</mark> elbuda	<del>Walled J. Addison.</del> N	
level (dbuV/m)	40-	is track describes a second de la constant de la co			No Andrew State of the State of	gant and season, in a sink at the	ter en haften for en en en en	la platit kirjin negari dilipun da kana	يندين والمرازعة والم	المالية في برطالة بهديد	
level (dBuV/m)	40	io tanghakari seruhika utu padak d		2483.	.5	den de de servicio de la constitució de la const	discount hoffingles acceptable	la palit i piir nga ulik quin estatu, in	irokko idan, idipina dalipa		
level (dbuV/m)	30 - 20 - 2470				.5 Frequency (MHz)					25(	
level (dbuV/m)	40	Results	Factor	Limit	.5 Frequency (MHz)	Detector	Table	Height	ANT	25	
level (dbuV/m)	30 - 20 - 2470	Results (dBuV/m)	Factor (dB)		.5 Frequency (MHz)					Verdi	
level (dBuV/m)	40	Results		Limit	.5 Frequency (MHz)		Table	Height		250 Verdi	

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. For Restricted band test, the two modulation modes of GFSK and Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

Report No.: TW2307227E Page 28 of 42

Date: 2023-07-28



#### 8.0 Antenna Requirement

#### **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna. The antenna gain is -0.58dBi Max. It fulfills the requirement of this section. Test Result: Pass

Report No.: TW2307227E Page 29 of 42



Product: SPEAKER					Τ	Test Mode:		Keep tran			
Mode		ng Transm				est Voltage		DC3.7V			
Temperature		24 deg. C,				Humidity		56%			
Test Result:		Pass				Detector		Pl	K		
dB Bandwidth	8	83.77kHz	Z						-		
Ref Lvl 10 dBm	Marker ndB BW 883	20.	ndB] .00 dB 507 kHz	VI	WE SW TV	30 ki 100 ki 8.5 m	Hz	? Att	20 dB	m	
10			1						1	7	
0			1			<b>V</b> 1	[T1]	-( 2.40187	).09 dBr 675 GHz		
			$\int \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	$\searrow$	ų	ndB BW ∇T1	88 [T1]	20 3.76753 -20	0.00 dB 507 kHz 1.42 dBr	2	
-10		T1 /	$\mathcal{N}$		<del>-</del> 4	У,	T1]	2.40158	818 GHz		
1MAX						V	\	2.40247	194 GHz	11	
-30		<i>y</i> •					J.				
40	Mw/							por _			
-50 WM									My		
60											
-70											
-80											
-90											

Page 30 of 42

Report No.: TW2307227E



Product:	PEAKER	EAKER		Test Mode:			Keep transmitting				
Mode			g Transmi	tting			est Voltage		DC3.7V		
Temperature			4 deg. C,	<u>0</u>			Humidity			6 RH	
Test Result:			Pass				Detector			PK	
20dB Bandwidth		88	83.77kHz								
$\triangle$		Marker	1 [T1 n	ndB]	R	.BW	30 ki	Hz Rl	F Att 20 dB		
Ref Lvl		ndB		00 dB		BW	100 ki				
10 dBm		BW 883	3.767535	07 kHz	S	WT	8.5 ms	s Ui	nit	dBm	ı
10							<b>v</b> <sub>1</sub>	[T1]	C	.08 dBm	
				<u>1</u>					2.44087	675 GHz	A
0				M	$\sim$ $\wedge$	\	ndB		20	.00 dB	
					$\vee$	h	BW ⊽ <sub>T1</sub>	88	3.76753	507 kHz	
-10				~		7	V T1	[T1]	-19 2.44058	.39 dBm 818 GHz	
			T1 ^	ļ			`\ \ <sub>\T</sub> ₹T2	[T1]		.80 dBm	
-20			~				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		2.44147	194 GHz	
1MAX			$\sim$				\ \	L,			1M
-30								ly 1			
-40		<b>\</b>									
-50	<del>∕ \</del>							<u>`</u>		Lunden	
-60											
-70											
-80											
-90											
Center 2	.441 GH	Iz		300	kHz/				Spa	n 3 MHz	•

Page 31 of 42

Report No.: TW2307227E



GFSK										
Product: SPEAKER  Mode Keeping Transmitt						Test Mode	:	Keep tra	ansmitting	
Mode Keeping Transmit			tting		Test Voltag	e	DC3.7V			
		4 deg. C,	eg. C,		Humidity		56% RH			
Test Result:			Pass			Detector		]	PK	
20dB Bandwidth		85	59.72kHz							
<b>R</b>		Marker	1 [T1 r	ndB]	RB'	W 30 ]	KHZ R	F Att	20 dB	
Ref Lvl		ndB		00 dB	VB					
10 dBm		BW 859	719438	888 kHz	SW'	Г 8.5 r	ns U	nit	dBm	
10						<b>v</b> <sub>1</sub>	[T1]	(	0.07 dBm	A
0				1				2.47987	7675 GHz	
				\w	$\mathcal{N}$	nd		20	0.00 dB	
					\ \ \	BW ▼ <sub>T</sub>	8: 1 [T1]	9.71943	8888 kHz 8.81 dBm	
-10				N		7		2.47958		
			Ţ <b></b> ∕^	/		$\nabla_{\mathbb{T}^{2}}\nabla_{\mathbb{T}}$	2 [T1]	-19	3.71 dBm	
-20			N			1		2.48044	1790 GHz	1MA
			$\mathcal{N}$			\	<b>∖</b> .			IMA
-30							7			
-40							\	m/		
-50	<i>\</i>	V						À	Mall	
-60										
-70										
-80										
-90 Center 2	40 CII	-		300	letter /			Cons	2 MII-	
		023 18	:35:27	300	kHz/			aga	an 3 MHz	

Report No.: TW2307227E Page 32 of 42



Л/4DQPSK								
Product: SPEAKER				Test Mode	:	Keep transmitting		
Mode	ng Transmitting		Test Voltag	e	DC3.7V 56% RH			
Temperature	24 deg. C,		Humidity					
Test Result:	Pass		Detector		PF	ζ		
20dB Bandwidth	-	1.226MHz					-	
/R	Marker	1 [T1 ndB]	R	BW 30	kHz R	F Att	20 dB	
Ref Lvl	ndB	20.00 dB		BW 100				
10 dBm	BW 1	L.22645291 MHz	SI	WT 8.5	ms U:	nit	dBm	
				<b>▼</b> 1	[T1]	- C	.13 dBm	A
0		1				2.40188	277 GHz	
			$\wedge$	no		20	.00 dB	
1.0		/ h	\ \ <sub>\\</sub>	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		1.22645	291 MHz	
-10		/~\/		<u> </u>		2.40141	383 GHz	
	7			∇7	2 <u>7</u> 2 T1]	-20	.19 dBm	
-20		ř				2.40264	028 GHz	1MA
-30								
-40	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					myn	w	
							, M	
-60								
-70								
-80								
-90 Center 2.	402 GHz	300	kHz/			Sna	n 3 MHz	
		:39:36	/			БPа	5 1.112	

Page 33 of 42

Report No.: TW2307227E



Keeping Transmitti 24 deg. C, Pass	ing	Test Voltage	DC	3 7V	
24 deg. C,			Meep transmitting DC3.7V 56% RH		
Pass		Humidity			
		Detector	I	PK	
1.257MHz					
Marker 1 [T1 nd	lB] R	BW 30 kHz	z RF Att	20 dB	
BW 1.2565130	3 MHz S	WT 8.5 ms	Unit	dBm	
		<b>v</b> <sub>1</sub> [	T1] -0	.00 dBm	
	1		2.44087	675 GHz	
	$\wedge$	ndB	20	.00 dB	
		~ d C _		303 MHz	
	V <sup>2</sup>	7			
17		¬ <sub>T</sub>			
7			2.44167	034 GHz	
				1M	
W					
				W/	
CHE	300 1511- /		Con	n 3 MHz	
		BW 1.25651303 MHz S	BW 1.25651303 MHz SWT 8.5 ms  V1 [  1  1  1  1  1  1  1  1  1  1  1  1  1	BW 1.25651303 MHz SWT 8.5 ms Unit    Till	

Page 34 of 42

Report No.: TW2307227E



Product:	SI	PEAKER		Γ	est Mode:		Keep tra	nsmitting	
Mode	Keeping Transmitting 24 deg. C,				Test Voltage Humidity		DC3.7V 56% RH		
Temperature									
Test Result:		Pass			Detector		F	·Κ	
20dB Bandwidth	1.	257MHz							
Ŕ	Marker	1 [T1 ndB	]	RBW	30 kH	iz RI	7 Att	20 dB	
Ref Lvl	ndB	20.00		VBW	100 kH				
10 dBm	BW 1	.25651303	MHz	SWT	8.5 ms	Ur	nit	dBm	1
10					<b>v</b> <sub>1</sub>	[T1]	C	.10 dBm	A
0			1				2.47988	277 GHz	
			$\wedge$		ndB		20	.00 dB	
		54.0	J W 1/2	<b>√</b> _∧	W BW VT	[T1]	1.25651 -20	303 MHz .42 dBm	
-10						. + + 1	2.47940		
	Ī	<b>√</b>			$\nabla_{\mathrm{T2}}$	[PT1]	-19	.64 dBm	
-20 1MAX						4	2.48066	433 GHz	1M
-30									
-40						W	M	m,	
-50								₩	
-60									
-70									
-80									
-90	_								
Center 2.4	18 GHz		300 kHz	/			Spa	n 3 MHz	

Report No.: TW2307227E Page 35 of 42

Date: 2023-07-28

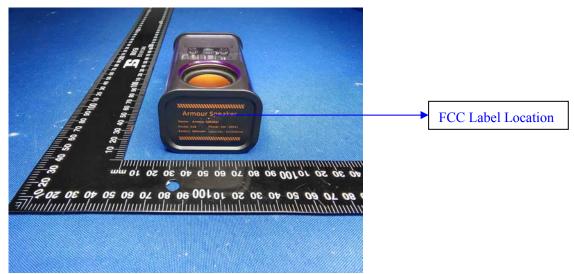


#### 10.0 FCC ID Label

#### FCC ID: 2APYY-AE0288

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



Page 36 of 42

Report No.: TW2307227E

Date: 2023-07-28



#### 11.0 Photo of testing

#### Conducted test View 11.1



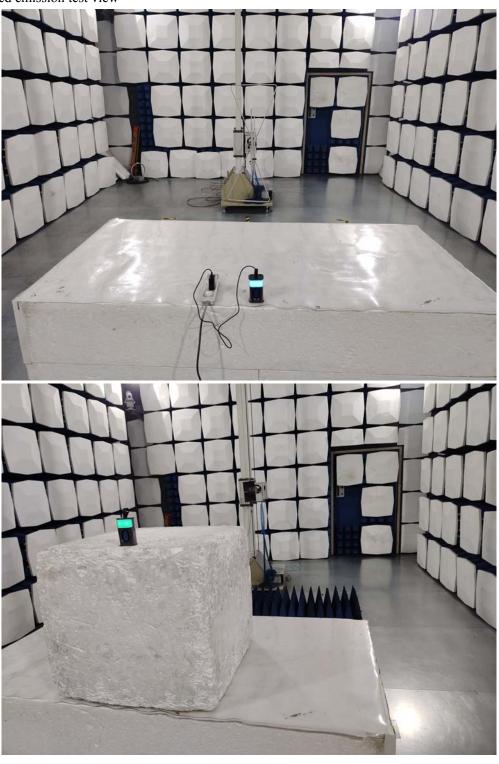
Page 37 of 42

Report No.: TW2307227E

Date: 2023-07-28



#### Radiated emission test view



The report refers only to the sample tested and does not apply to the bulk.

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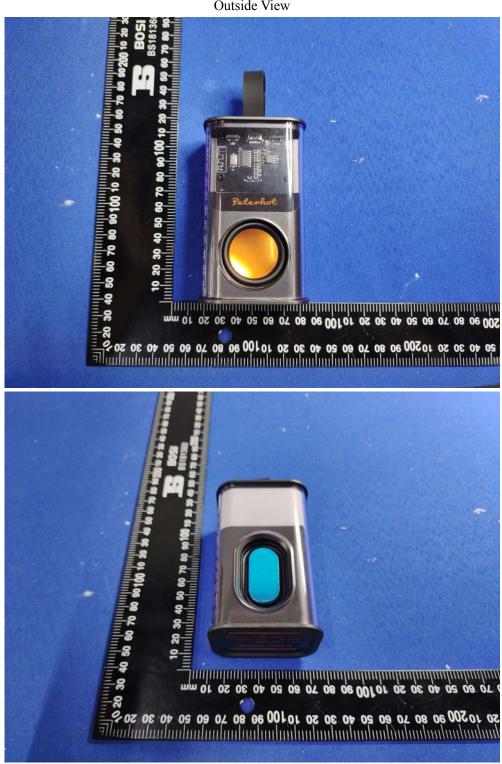
Report No.: TW2307227E

Date: 2023-07-28



#### 11.2 Photographs – EUT

Outside View



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Page 39 of 42

Report No.: TW2307227E

Date: 2023-07-28



Outside View



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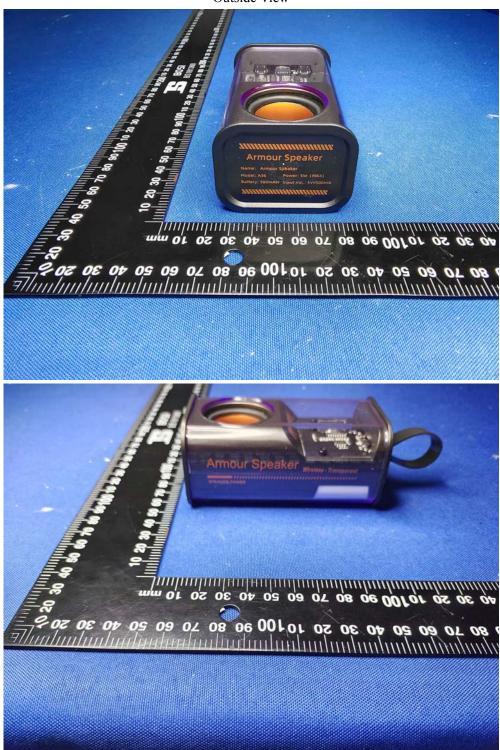
Page 40 of 42

Report No.: TW2307227E

Date: 2023-07-28



Outside View



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Page 41 of 42

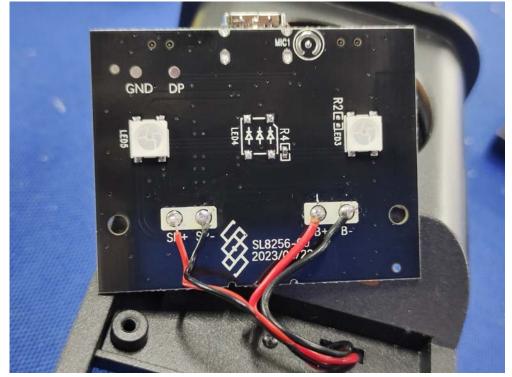
Report No.: TW2307227E

Date: 2023-07-28



Inside View





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Report No.: TW2307227E Page 42 of 42



Inside View



-- End of Report--