

Applicant: TOPSAIL (HONG KONG) LIMITED

Product: Bluetooth Speaker

Model No.: 9611X, 9613X, 9609X, 9610X, 9331X, 9332X, 6301A, 6302A,

6304X, 6305X, 9413X, 9415X, 9416X, 8810B, 8810C, 9401X, 9402A, 9402B, 9409403X, 9404X, 9404A, 9405A, 9405B,

9405C

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

Terry rung

Manager

Dated: December 08, 2022

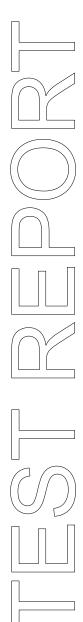
Results appearing herein relate only to the sample tested

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.: TW2211177-01E Page 2 of 43

Date: 2022-12-08



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

Date: 2022-12-08



Test Report Conclusion

Content

1.0	General Details	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample.	4
1.5	Test Duration.	5
1.6	Test Uncertainty.	5
1.7	Test By	
2.0	List of Measurement Equipment.	
3.0	Technical Details	7
3.1	Summary of Test Results	7
3.2	Test Standards	
4.0	EUT Modification.	
5.0	Power Line Conducted Emission Test.	
5.1	Schematics of the Test.	8
5.2	Test Method and Test Procedure.	8
5.3	Configuration of the EUT.	8
5.4	EUT Operating Condition.	9
5.5	Conducted Emission Limit.	9
5.6	Test Result.	9
6.0	Radiated Emission test.	12
6.1	Test Method and Test Procedure.	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
9.0	20dB bandwidth measurement.	29
10.0	FCC ID Label	35
11.0	Photo of Test Setup and EUT View	36

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

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Date: 2022-12-08



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: TOPSAIL (HONG KONG) LIMITED

Address: Room 803, Chevalier House, 45-51 Chatham Road South, Tsim Sha Tsui, Kowloon,

Hong Kong

Telephone: -Fax: --

1.3 Description of EUT

Product: Bluetooth Speaker

Manufacturer: TOPSAIL (HONG KONG) LIMITED

Address: Room 402, No. 8, Sixth Street, Hekang New District, Changping Town,

Dongguan City, Guangdong Province, China

Trademark: N/A Model Number: 9611X

Additional Model Name 9613X, 9609X, 9610X, 9331X, 9332X, 6301A, 6302A, 6304X, 6305X, 9413X,

9415X, 9416X, 8810B, 8810C, 9401X, 9402A, 9402B, 9409403X, 9404X,

9404A, 9405A, 9405B, 9405C

Rating: Input: DC5V

Battery: DC3.7V, 1200mAh Li-ion battery

Modulation Type: GFSK, Л/4DQPSK Operation Frequency: 2402-2480MHz

Channel Number: 79
Channel Separation: 1MHz
Hardware Version: V1.0
Software Version: V1.0

Serial No.: 2022120001

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

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Report No.: TW2211177-01E Page 5 of 43

Date: 2022-12-08



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

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2022-11-17 to 2022-12-08

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 43

Report No.: TW2211177-01E

Date: 2022-12-08



2.0 Test Equipment								
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date			
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14			
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17			
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17			
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17			
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17			
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14			
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	2022-07-18	2023-07-17			
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17			
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	2022-07-15	2023-07-14			
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14			
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14			
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14			
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2022-07-15	2023-07-14			
RF Cable	Zhengdi	7m		2022-07-15	2023-07-14			
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14			
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14			
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17			
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14			
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17			

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

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

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Page 7 of 43

Report No.: TW2211177-01E

Date: 2022-12-08



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 and RSS-210	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

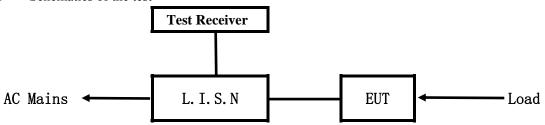
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

Date: 2022-12-08



5. Power Line Conducted Emission Test

5.1 Schematics of the test

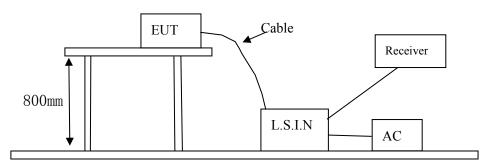


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4-2014.

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



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
Bluetooth Speaker	TOPSAIL (HONG KONG) LIMITED	9611X, 9613X, 9609X, 9610X, 9331X, 9332X, 6301A, 6302A, 6304X, 6305X, 9413X, 9415X, 9416X, 8810B, 8810C, 9401X, 9402A, 9402B, 9409403X, 9404X, 9404A, 9405A, 9405B, 9405C	2ACCE-22526

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

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Report No.: TW2211177-01E Page 9 of 43

Date: 2022-12-08



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 C63.4 -2014

- 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 μ 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: 2022-12-08



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

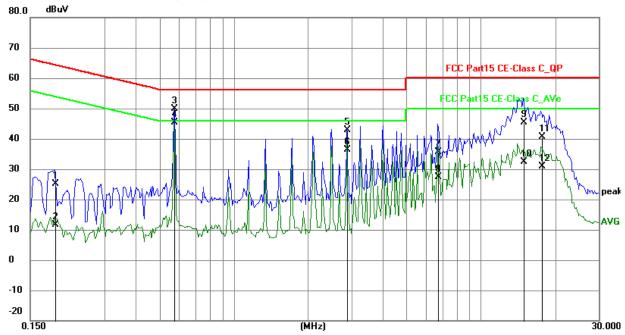
EUT Operating Environment

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	0.1890	15.31	9.76	25.07	64.08	-39.01	QP	Ч
2	0.1890	1.76	9.76	11.52	54.08	-42.56	AVG	Р
3	0.5751	40.04	9.77	49.81	56.00	-6.19	QP	Р
4	0.5751	35.68	9.77	45.45	46.00	-0.55	AVG	Ъ
5	2.8722	33.00	9.84	42.84	56.00	-13.16	QP	Р
6	2.8722	26.44	9.84	36.28	46.00	-9.72	AVG	Р
7	6.7167	25.64	10.00	35.64	60.00	-24.36	QP	Р
8	6.7167	17.29	10.00	27.29	50.00	-22.71	AVG	Р
9	14.8989	34.94	10.38	45.32	60.00	-14.68	QP	Л
10	14.8989	21.99	10.38	32.37	50.00	-17.63	AVG	Р
11	17.6611	30.14	10.54	40.68	60.00	-19.32	QP	Р
12	17.6611	20.30	10.54	30.84	50.00	-19.16	AVG	Р

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

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Date: 2022-12-08



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

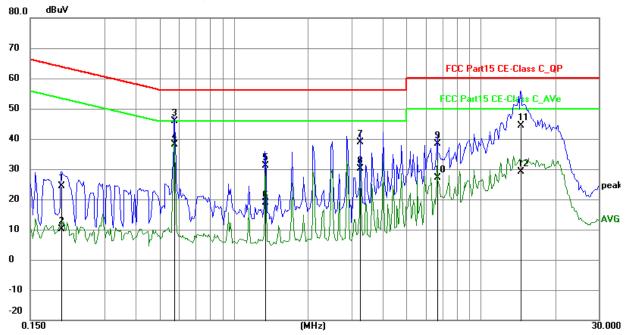
EUT Operating Environment

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	0.2007	14.68	9.75	24.43	63.58	-39.15	QP	Р
2	0.2007	0.43	9.75	10.18	53.58	-43.40	AVG	Р
3	0.5751	36.05	9.77	45.82	56.00	-10.18	QP	Р
4	0.5751	28.38	9.77	38.15	46.00	-7.85	AVG	Р
5	1.3433	21.30	9.79	31.09	56.00	-24.91	QP	Ъ
6	1.3433	9.11	9.79	18.90	46.00	-27.10	AVG	J
7	3.2457	29.10	9.85	38.95	56.00	-17.05	QP	Р
8	3.2457	20.22	9.85	30.07	46.00	-15.93	AVG	Р
9	6.6972	28.42	10.00	38.42	60.00	-21.58	QP	Р
10	6.6972	17.07	10.00	27.07	50.00	-22.93	AVG	J
11	14.5050	33.90	10.36	44.26	60.00	-15.74	QP	Р
12	14.5050	18.83	10.36	29.19	50.00	-20.81	AVG	Р

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

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Date: 2022-12-08

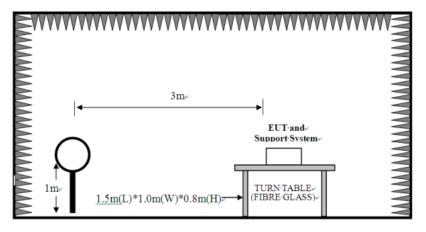


6 Radiated Emission Test

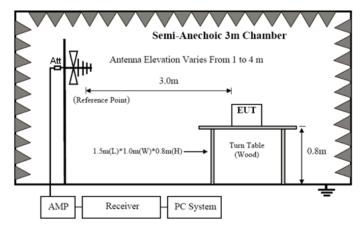
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size 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 30 MHz 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



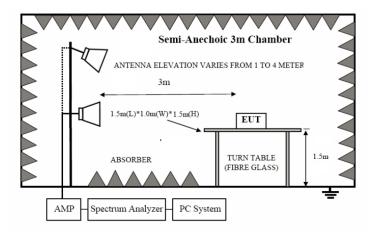
The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Date: 2022-12-08



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 Stre	ength of Fundame	ntal (3m)	Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/m		uV/m	dBuV/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.

Page 14 of 43

Report No.: TW2211177-01E

Date: 2022-12-08



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

Frequency Range (MHz)	Distance (m)	Field strength (dB μ 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.: TW2211177-01E Page 15 of 43

Date: 2022-12-08

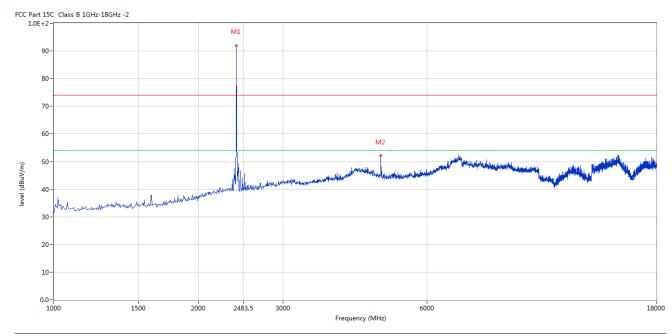


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



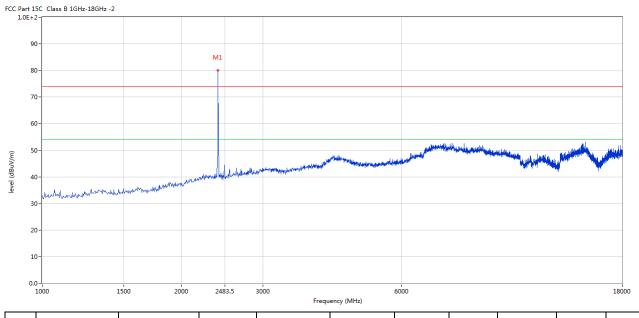
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	91.98	-3.57	114.0	-22.02	Peak	177.00	100	Horizontal	Pass
2	4802.799	52.09	3.12	74.0	-21.91	Peak	187.00	100	Horizontal	Pass

Report No.: TW2211177-01E Page 16 of 43

Date: 2022-12-08



Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	80.52	-3.57	114.0	-33.48	Peak	4.00	100	Vertical	Pass

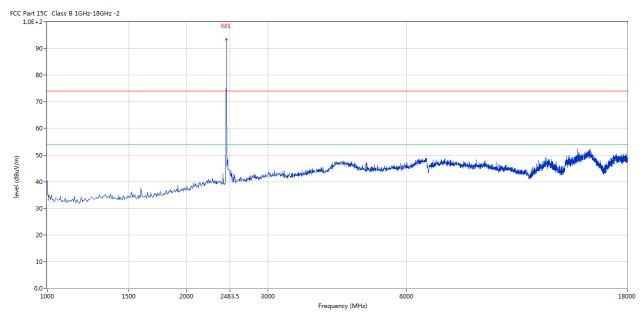
Report No.: TW2211177-01E Page 17 of 43

Date: 2022-12-08



Please refer to the following test plots for details: Middle Channel-2440MHz

Horizontal



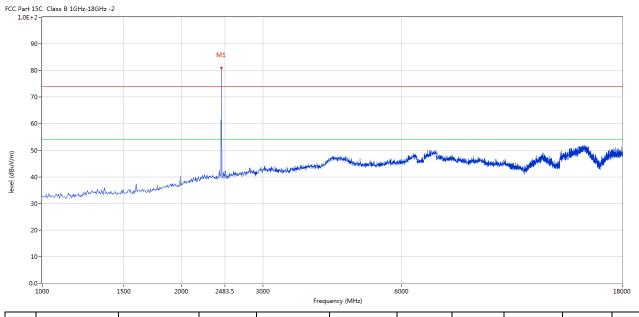
1	No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
_	1	2441	92.01	-3.57	114.0	-21.99	Peak	199.00	100	Horizontal	Pass

Report No.: TW2211177-01E Page 18 of 43

Date: 2022-12-08



Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	80.98	-3.57	114.0	-33.02	Peak	320.00	100	Vertical	Pass

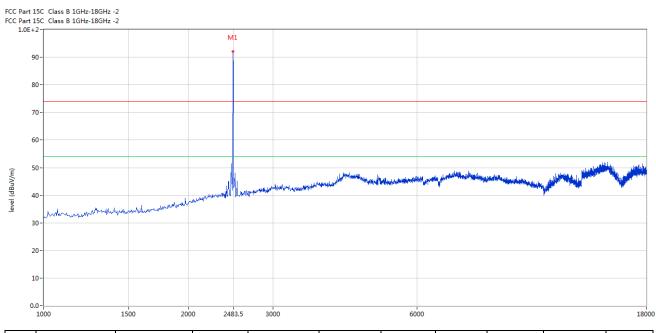
Report No.: TW2211177-01E Page 19 of 43

Date: 2022-12-08



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

Horizontal



Ī	No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
	1	2480	91.97	-3.57	114.0	-22.03	Peak	183.00	100	Horizontal	Pass

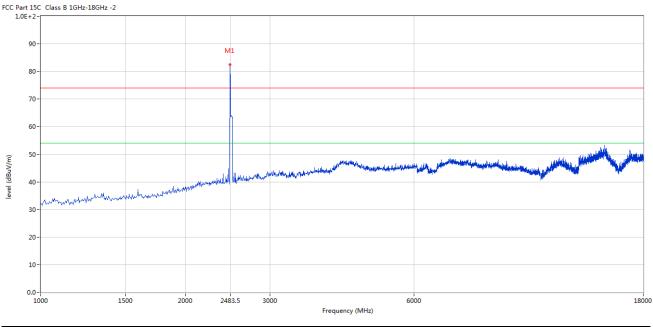
Page 20 of 43

Report No.: TW2211177-01E

Date: 2022-12-08



Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	82.36	-3.57	114.0	-31.64	Peak	333.00	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.: TW2211177-01E Page 21 of 43

Date: 2022-12-08



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

FCC_FCC Part 15C Class B 30MHz-1GHz

60

40

20

10

No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	90.610	40.03	-15.01	43.5	-3.47	Peak	272.00	200	Horizontal	Pass
2*	176.409	35.90	-15.65	43.5	-7.60	QP	319.00	182	Horizontal	Pass
3*	258.267	41.42	-11.85	46.0	-4.58	QP	259.00	101	Horizontal	Pass
4	321.412	35.01	-10.54	46.0	-10.99	Peak	284.00	100	Horizontal	Pass
5	440.935	32.96	-8.02	46.0	-13.04	Peak	301.00	200	Horizontal	Pass
6	538.880	38.21	-6.45	46.0	-7.79	Peak	0.00	200	Horizontal	Pass

200

Frequency (MHz)

1000

Report No.: TW2211177-01E Page 22 of 43

Date: 2022-12-08

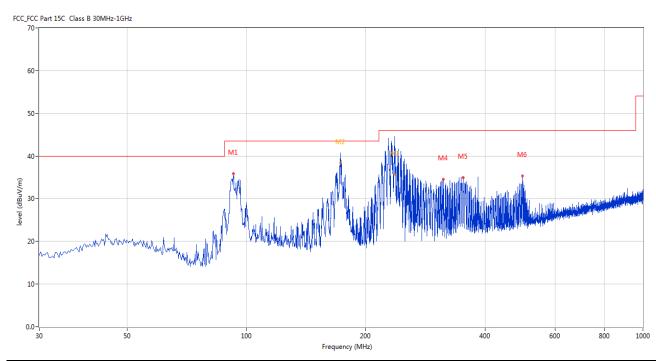


Radiated Emission In Vertical (30MHz----1000MHz)

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	92.549	35.89	-14.57	43.5	-7.61	Peak	66.00	100	Vertical	Pass
2*	172.708	38.41	-15.95	43.5	-5.09	QP	33.00	179	Vertical	Pass
3*	236.701	35.58	-12.34	46.0	-10.42	QP	287.00	200	Vertical	Pass
4	313.654	34.51	-10.83	46.0	-11.49	Peak	360.00	200	Vertical	Pass
5	351.960	35.00	-9.45	46.0	-11.00	Peak	360.00	200	Vertical	Pass
6	496.453	35.33	-7.13	46.0	-10.67	Peak	0.00	100	Vertical	Pass

Date: 2022-12-08

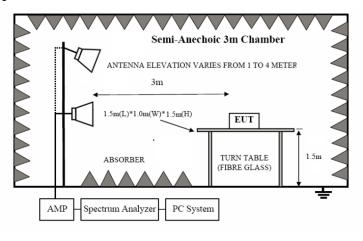


7. Band Edge

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.

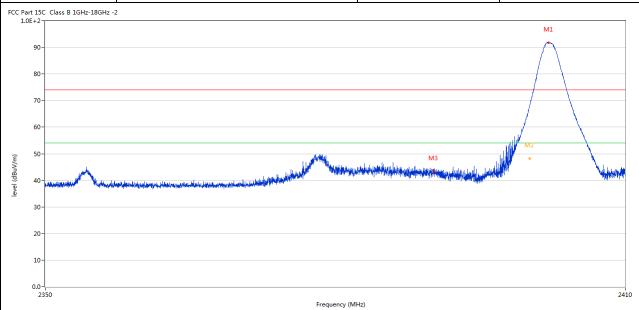
Report No.: TW2211177-01E Page 24 of 43

Date: 2022-12-08



7.6 Test Result

Product:	Bluetooth Speaker	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

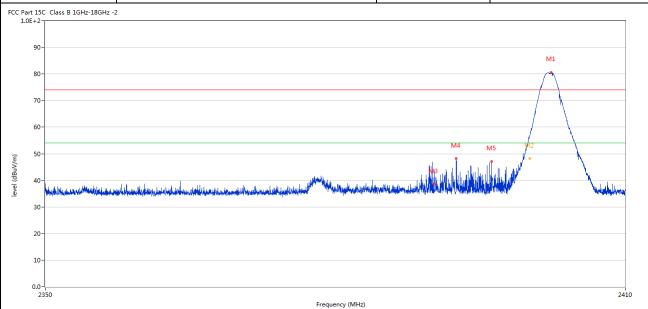


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.000	91.75	-3.57	74.0	17.75	Peak	183.00	100	Horizontal	N/A
2	2400.000	67.85	-3.57	74.0	-6.15	Peak	187.29	100	Horizontal	Pass
2**	2400.000	48.16	-3.57	54.0	-5.84	AV	187.29	100	Horizontal	Pass
3	2390.000	43.58	-3.53	74.0	-30.42	Peak	180.67	100	Horizontal	Pass

Report No.: TW2211177-01E Page 25 of 43



Product:	Bluetooth Speaker	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
FCC Part 15C Class B 1GHz-18GHz -2			



					'	* * * *					
	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
	1	2402.000	80.43	-3.57	74.0	6.43	Peak	338.00	100	Vertical	N/A
	2	2400.000	59.49	-3.57	74.0	-14.51	Peak	338.00	100	Vertical	Pass
	2**	2400.000	48.20	-3.57	54.0	-5.80	AV	338.00	100	Vertical	Pass
	3	2390.000	39.13	-3.53	74.0	-34.87	Peak	123.67	100	Vertical	Pass
	4	2392.364	51.20	-3.54	74.0	-22.80	Peak	119.00	100	Vertical	Pass
	5	2396.023	50.15	-3.55	74.0	-23.85	Peak	94.00	100	Vertical	Pass
г											

Report No.: TW2211177-01E Page 26 of 43



I	Product:		Blueto	ooth Speaker	•		Polarity	У	Horizon	tal	
	Mode		Keeping	g Transmittii	ng	,	Test Volta	age	DC3.7V		
Te	mperature		24	4 deg. C,			Humidit	ty	56% R	Н	
Те	est Result:			Pass							
CC Part 1	.5C Class B 1GHz-18GHz -2	2				•					
			M1								
90	0-										
80	0-		-/-								
70	0-										
60	0-		/								
				*.							
	_			M2							
50	0-	ALL ALLES AND		M2	Makadhari sa sa sa	المعاملة	والمعارضة والمعارضة والمعارضة والمعارضة	the bearing that the other than		will the last	
50		Marie Land Marie Land		M2	Mappinethyall	والمالة أليانا والمعارض والمعارف	pair de des des des des des des des des des	e di bassa ya da ili da ya bilata ka	ngalapangan bahawan terletan bahaya bahaya baha	an Welgadin	
30		Market Market Comment		M2	The section of the se	i fagir mad an i hapit dili den	yelik dake energia dak	tifd make of the published to the published to	antigration in the physical state of the phy		
41	0-	Market Market Commencer		M2	Managhrot specific	, fundament de la	grafie de production de la company de la com	thing the second of the second between	neriginal production of the second second second		
30	0-	Market Market Comment		M2	the spirit spirit	بالمؤمدة خامة المؤاثرة	past data dan aranimah	tigi Namasan gadanida afarah hillari	and built his water the place of the place o		
30	0-			M2	Market Market	i fadi nach de i la dhilli dhi	profit delication or interest and	ti di manana na kata di malakata di ma	antidades and confusion of the second se	to the same of the	
30 20 10 0.0	0-	Market Hall Hall Lower Commencer Com		M2		i fade a such de i talle de la constante de la	grand distributions and and an analysis of the second	tight water a planting to the history	and and the second	2500	
30 20 10	0-		Easter	2483.	Frequency (MHz)		Toble		ANT.	ı	
30 20 10	o- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	Results	Factor	2483.: Limit	Frequency (MHz) Over Limit	Detector	Table	Height	ANT	ı	
44 31 21 10 0.4 No.	Frequency (MHz)	Results (dBuV/m)	(dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	(0)	(cm)		Verd	
34 24 10 0.4 No.	0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0	Results (dBuV/m) 91.74	(dB) -3.57	2483.5 Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 17.74	Detector Peak	(o) 183.00	(cm)	Horizontal	Verd	
31 21 1.0 0.0 No.	Frequency (MHz)	Results (dBuV/m)	(dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	(0)	(cm)		Verd	

Report No.: TW2211177-01E Page 27 of 43

Date: 2022-12-08



	Product:		Blue	tooth Speake	r		Detecto	or	Vertic	al
	Mode		Keepii	ng Transmitti	ng		Test Volt	age	DC3.7	7V
Те	mperature			24 deg. C,			Humidity 56%			RH
Те	est Result:			Pass						
CC Part 1	15C Class B 1GHz-18GHz	-2				l				
1.01	2									
9	90-		M1							
8	30-									
7	70-									
6	50-									
				· · · · · · · · · · · · · · · · · · ·						
5	50-	ı de la companya de		1						
(m/vudb)		المعمولة المالية والمالية	/	Maha						
m/ana		Harrister I Hall Harry Harry	/	M. A.	Jacob Marie Ma	nanikihkanikiniki	ing baddy la filmed by side on a	d day day day day day day day day day da	l-manifolder of the difference	
4		المستخطئة والمتعادية والمتعاددة والمتعاددة والمتعاددة والمتعادة والمتعاددة وا		1	Market Market Harrison	na palitik kanada da	training in the state of the st	ahlanlah mendebilan ken	hinadikaharlari sajikisa jitha	
ii/Angan) 4		Harander de significações de la companya de la comp		13	A STATE OF THE STA	in professional and a state of the state of	to go de de la companya de la compa	del ant principalisation	Holosoft Angelors agifte Village	
3 2	10 - Letter of the state of the	Harrister of the light of the second		N	And an institute of the state	المرافظ أوالمالية والمرافظ المرافظ الم	ng tha hi katanah da taka ang sa Katanah pangan ang sa katanah	dels and specimental production primer	hinadin kalenya pina alika	
3 2 1	10 - Co- Co- Co- Co- Co- Co- Co- Co- Co- C	n parametri di shiki di kata ka		11	and the second second second	in de lighte and self-stable design	ter jarden fransk f	d lan la transportencia	ifranskruftersyldersyldersklige	
3 2 1	10 - Andrew Constitution of Management of Constitution of Cons	Harter de se la		2483.5 Fr	equency (MHz)	in Allahan didirik dikanga	the state of the s	deleniyata yaliyida gira	ilmaatuulmuulda saluu	2500
3 2 1	10	Results	Factor		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Detector	Table	Height	ANT	ı
3 2 1 0.	20 - 2470		Factor (dB)	Fr	equency (MHz)					ı
3 2 1 0.	10	Results		Limit	equency (MHz) Over Limit		Table	Height		ı
3 3 2 1 1 0.	Frequency (MHz)	Results (dBuV/m)	(dB)	Limit (dBuV/m)	equency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdic

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 three 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.

Date: 2022-12-08



Page 28 of 43

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

Page 29 of 43

Report No.: TW2211177-01E



FSK						
Product:	Bluetooth S	Speaker	Test Mode	: Keep tra	nsmitting	
Mode	Keeping Tran	nsmitting	Test Voltage	DC3.7V		
Temperature	24 deg.	С,	Humidity	56%	6 RH	
Test Result:	Pass		Detector	P	'K	
dB Bandwidth	865.73k	кНz			-	
Ref Lvl	Marker 1 [TindB		RBW 30 1	kHz	20 dB	
10 dBm	BW 865.731	46293 kHz	SWT 8.5 r	ms Unit	dBm	
10			v ₁	[T1] -	1.05 dBm	
		1		2.4018		
0		MM 1	nd	В 2	0.00 dB	
			W V T			
-10		\sim			4008 GHz	
	TA	الهم	$\bigvee_{\mathbf{T}2} \nabla_{\mathbf{T}}$	2 [T1] -2	1.39 dBm	
1MAX				2.4024	0581 GHz 1	
-30				The second		
-40	~~~					
50				\ _	Why have	
-60						
70						
-80						
-90						

Page 30 of 43

Report No.: TW2211177-01E



Product:	Bluetooth Speaker					Test Mode:		Keep tra	nsmitting		
Mode	Keeping Transmitting				,	Test Voltage	;	DC	3.7V		
Temperature		2	4 deg. C,			Humidity		56% RH			
Test Result:	Pass					Detector		I	PK		
dB Bandwidth	865.73kHz										
	I	Marker	1 [T1 r	ndB]	RBW	30 k	Hz Rl	F Att	20 dB		
Ref Lvl	1	ndB	20.	00 dB	VBW	100 k	Hz				
10 dBm	1	BW 865	5.731462	93 kHz	SWT	8.5 m	s Ui	nit	dBm	ı	
10						▼ 1	[T1]	- C	.48 dBm	Z	
				<u>1</u>				2.44082	866 GHz		
0				\sim	Λ	ndE	3	20	.00 dB		
					$\bigvee \bigvee_{\lambda}$	BW ▼⊤1		5.73146			
-10			,	N	7	V 11.1	[T1]	-21 2.44054	.06 dBm		
					`	$\bigvee_{\mathbf{T}^2} \nabla_{\mathbf{T}^2}$	[T1]	-20	.69 dBm		
-20			TV			1 2	2.44140		581 GHz		
1MAX		^								1N	
-30							4				
-40	My							~			
-50		V						N. A.	huhdyn		
-60											
-70											
-80											
-90 Center 2.	441 GH	z		300	kHz/			Span 3 MHz			

Page 31 of 43

Report No.: TW2211177-01E



GFSK										
Product:		Bluet	ooth Speal	ker		Test Mode:		Keep tra	ansmitting	
Mode	Keeping Transmitting 24 deg. C,					Test Voltage		DC	C3.7V	
Temperature						Humidity		56% RH		
Test Result:	Pass					Detector]	PK	
20dB Bandwidth	865.73kHz									
		Marker	1 [T1 r	ndB]	RBW	7 30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB		00 dB	VBW					
10 dBm		BW 865	5.731462	293 kHz	SWI	. 8.5 m	ıs Ui	nit	dBm	
						v ₁	[T1]	(0.71 dBm	A
0				1				2.47982	2866 GHz	
					Υ Λ	ndI	3	20	0.00 dB	
					1 4	BW ▽ _T	86 L [T1]	5.73146 -10	5293 kHz 9.57 dBm	
-10			ſ	$^{\wedge}$	7	W	_ [2.47954		
			ŢĄ,			V _T 2 ∇ _T 2	2 [T1]	-19		
-20			~			13/		2.48040	581 GHz	1MA
		^	/			\sim				IMA
-30							My .			
-40 50		$\sqrt{}$					\ _{\\\\}	^ _		
-50	U						Ť	14	Mysenskin	
-60										
-70										
-80										
-90 Center 2	2.48 GH:	z		300	kHz/			Spa	an 3 MHz	
Date: 30	0.NOV.2	022 12	:49:08							

Page 32 of 43

Report No.: TW2211177-01E



Product:	Bluetooth Speaker					Т	est Mode:		Keep tran	smitting	
Mode			ng Transm				est Voltage		DC3		
Temperature			24 deg. C,			_	Humidity	56% RH			
Test Result:	Pass					Detector		PK			
0dB Bandwidth	1.232MHz										
	N	larker	1 [T1 n	ndB]	R.	BW	30 ki	Hz Ri	F Att	20 dB	
Ref Lvl	r	ndB	20.	00 dB	V	BW	100 k	Hz			
10 dBm	E	3W 1	.232464	193 MHz	SI	TW	8.5 m	s U	nit	dBm	ı
10							v ₁	[T1]	-1	.04 dBm	
				1					2.40183	467 GHz	
0				Λ			ndB		20	.00 dB	
					L.,		$igwedge egin{array}{ccc} \egin{array}{ccc} egin{array}{ccc} egin{array}{ccc} egin{array}{ccc} egin{array}{cccc} \egin{array}{ccc} \egin{array}{ccc} \egin{array}{cccc} \egin{array}{ccc} \egin{array}{cccc$	[T1]	1.23246	493 MHz	
-10			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	~ · · · · · · · · · · · · · · · · · · ·		^_	W		2.40135		
		т1	\sim				√ 13	2 [T1]	-21	.16 dBm	
-20		J						\	2.40259	218 GHz	11
IMAX								7			
-30								_			
								\			
-40								14			
	$/ \bigvee$	V						00	wy		
-50	Ž								W.	Λ	
W.										MAN	
-60											
-70											
-80											
-90 Center 2.	100 75			222	kHz/				~	n 3 MHz	ļ

Page 33 of 43

Report No.: TW2211177-01E



Л/4DQPSK											
Product:		Bluet	ooth Speal	ker		Γ	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		To	est Voltage	e	DC	3.7V	
Temperature		2	4 deg. C,			Humidity			56%	% RH	
Test Result:	Pass					Detector		I	PK		
20dB Bandwidth	1.232MHz										
		Marker	1 [T1 r	ndB]	R	.BW	30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB		00 dB		BW	100 k				
10 dBm		BW 1	.232464	93 MHz	S	WT	8.5 n	ns U	nit	dBm	
							v ₁	[T1]	-0	.51 dBm	A
0				1					2.44082	866 GHz	
				\land			ndl	B	20	.00 dB	
			. ^		hy	~	BW ∇ _T	[[T1]	1.23246	493 MHz	
-10			\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	,	Ì	ω	\sim		2.44035		
		т1	\sim				4	2 [T1]	-20	.85 dBm	
-20								\.	2.44159	218 GHz	1MA
-30											
-40	~ ~	\\\\\						Janey.	\mathcal{N}		
-50	\.\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								MIL.	Whan!	
-60											
-70											
-80											
-90 Center 2	2.441 GI	Hz		300	kHz/				Spa	ın 3 MHz	
Date: 30	0.NOV.2	022 13	:01:29								

Page 34 of 43

Report No.: TW2211177-01E



Л/4DQPSK										
Product:	Bl	uetooth Speaker		Te	est Mode:		Keep tra	ansmitting		
Mode	Kee	ping Transmitting		Tes	st Voltage		DC	3.7V		
Temperature		24 deg. C,		Humidity			56% RH			
Test Result:	Pass				Detector]	PK		
20dB Bandwidth		1.232MHz								
Ŕ	Marke	er 1 [T1 ndB]	R	BW	30 k	Hz R	F Att	20 dB		
Ref Lvl	ndB	20.00 dB		BW	100 k					
10 dBm	BW	1.23246493 MH	z S	WT	8.5 m	ıs Uı	nit	dBm		
					v ₁	[T1]	(.67 dBm	A	
		1					2.47983	467 GHz		
0			Λ		ndE	8	20	.00 dB		
		1 2000 J	m		W ZT1	(T1)	1.23246	493 MHz		
-10				-	- V		2.47935			
		TA			$ abla_{\mathbb{T}_{2}}$	₽ [T1]	-19	.55 dBm		
-20		7				\	2.48059	218 GHz	1MA	
									IMA	
-30						\ \				
-40						Luly	M 14 H			
-50	\ \'						W _p ,	whish		
-60										
-70										
-80										
-90 Center 2	48 GHz	30	0 kHz/				Sne	ın 3 MHz		
		13:03:03						5 1.1112		

Date: 2022-12-08



Page 35 of 43

10.0 FCC ID Label

FCC ID: 2ACCE-22526

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

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.

Page 36 of 43

Report No.: TW2211177-01E

Date: 2022-12-08



11.0 Photo of testing 11.1 Conducted test View



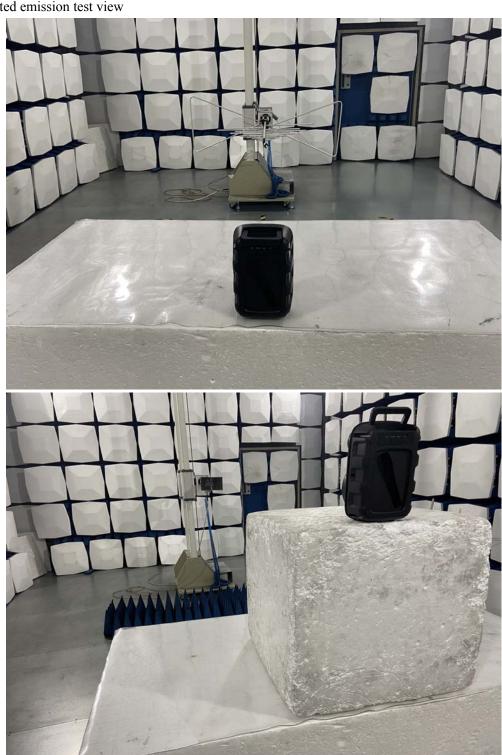
Page 37 of 43

Report No.: TW2211177-01E

Date: 2022-12-08



Radiated emission test view



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

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Date: 2022-12-08



11.2 Photographs – EUT

Outside View





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

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to

adopt any other remedies which may be appropriate.

Page 39 of 43

Report No.: TW2211177-01E

Date: 2022-12-08



Outside View





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

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to

adopt any other remedies which may be appropriate.

Report No.: TW2211177-01E Page 40 of 43



Outside View



Page 41 of 43

Report No.: TW2211177-01E

Date: 2022-12-08



Inside View



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

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to

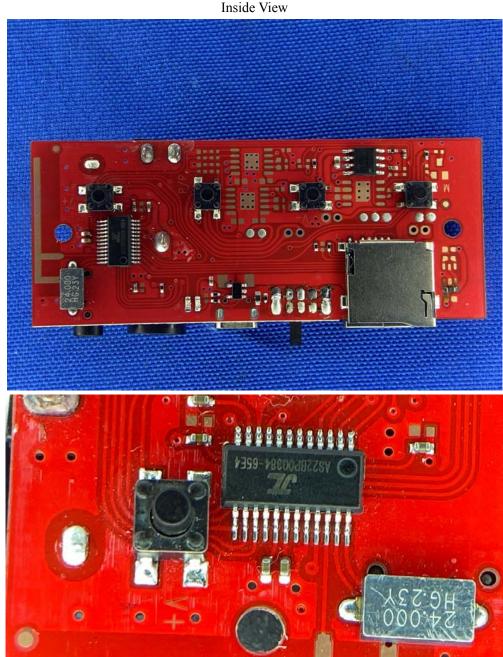
adopt any other remedies which may be appropriate.

Page 42 of 43

Report No.: TW2211177-01E

Date: 2022-12-08





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

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to

adopt any other remedies which may be appropriate.

Report No.: TW2211177-01E Page 43 of 43



Inside View



-- End of the report--