



Report No.: TW2307215-02E

Applicant: Dongguan Zengyang Electronic Technology Co., Ltd.

Product: Wireless Clip-on Earphones

Model No.: TW01, TW02, TW03, TW04, TW05, Y351

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 Tang

Manager

Dated: July 27, 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



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

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Test Report Conclusion

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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 States
Registration Number: 744189
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Dongguan Zengyang Electronic Technology Co., Ltd.
Address: B607, Brilliant Building, Kangli Road, Dalang Town, Dongguan City, Guangdong Province, China.
Telephone: --
Fax: --

1.3 Description of EUT

Product:	Wireless Clip-on Earphones
Manufacturer:	Dongguan Zengyang Electronic Technology Co., Ltd.
Address:	B607, Brilliant Building, Kangli Road, Dalang Town, Dongguan City, Guangdong Province, China.
Trademark:	N/A
Model Number:	TW01
Additional Model Name	TW02, TW03, TW04, TW05, Y351
Rating:	DC5V input or Built-in DC3.7V, 27mAh Li-ion battery for earphones and DC5V input or Built-in DC3.7V, 350mAh Li-ion battery for charger base.
Modulation Type:	GFSK (Bluetooth Low Energy)
Operation Frequency:	2402-2480MHz
Channel Separate:	2MHz
Channel Number:	40
Hardware Version:	XY-5228-V2
Software Version:	6983D2_V217
Serial No.:	000BC012 000BC013 000BC014
Antenna Designation	Wire antenna with gain 1.94dBi Max (Get from the antenna specification)

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1.4 Submitted Sample: 3 Samples

1.5 Test Duration

2023-07-12 to 2023-07-27

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

Andy - Xing

The sample tested by _____

Print Name: Andy Xing

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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

ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100253	2022-07-15	2023-07-14
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-15	2023-07-14
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	2022-07-15	2023-07-14
Power sensor	Anritsu	MA2491A	32263	2022-07-15	2023-07-14

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Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-15	2023-07-14
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	2022-07-15	2023-07-14
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-15	2023-07-14

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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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
FCC Part 15 Subpart C Paragraph 15.215(c)	20dB bandwidth	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

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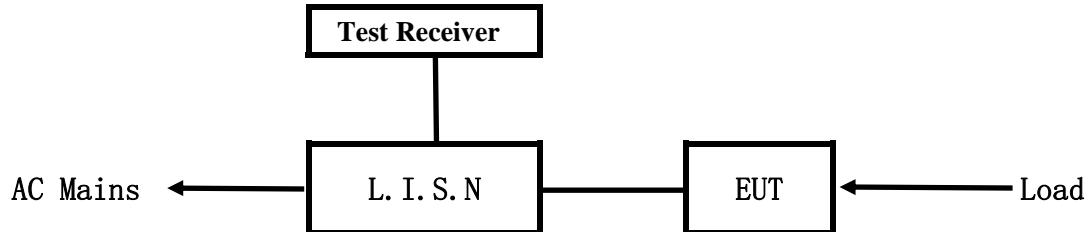
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5. Power Line Conducted Emission Test

5.1 Schematics of the test



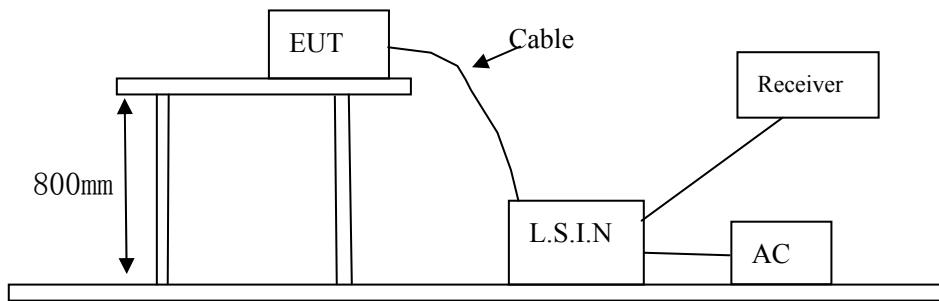
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. 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.

40 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
Wireless Clip-on Earphones	Dongguan Zengyang Electronic Technology Co., Ltd.	TW01, TW02, TW03, TW04, TW05, Y351	2BB9C-TW01

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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 (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 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:

Pass

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

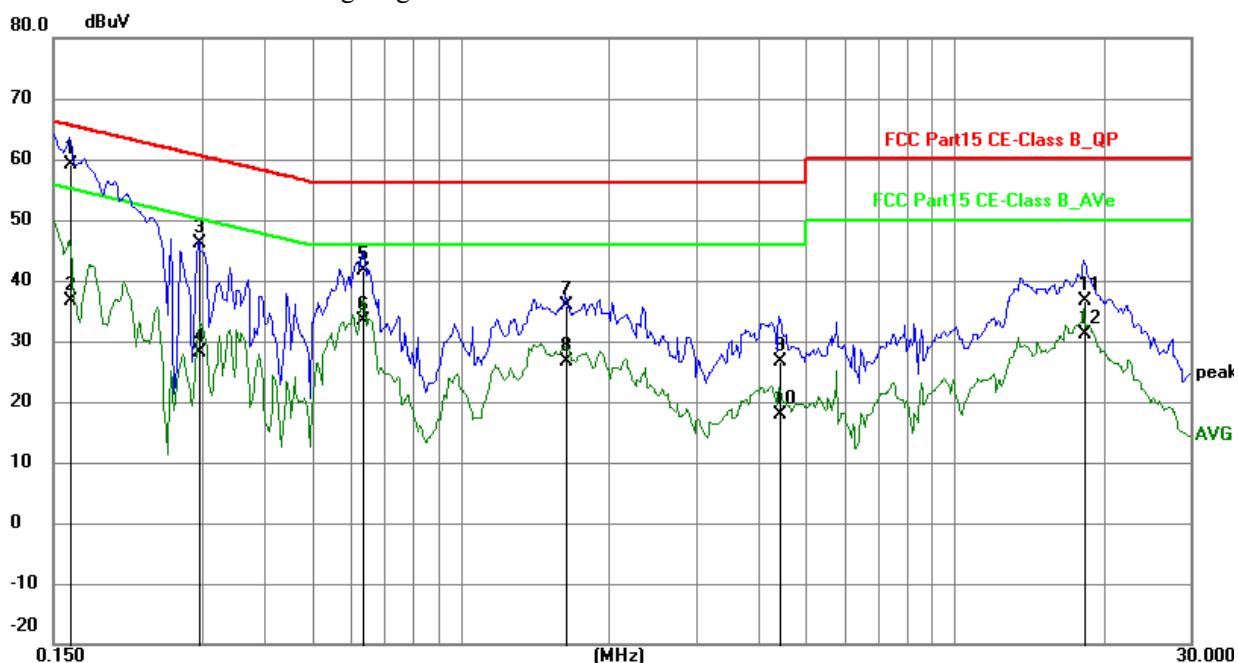
EUT Operating Environment

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

EUT set Condition: 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	0.1617	49.23	9.78	59.01	65.38	-6.37	QP	P
2	0.1617	26.76	9.78	36.54	55.38	-18.84	AVG	P
3	0.2943	36.37	9.76	46.13	60.40	-14.27	QP	P
4	0.2943	18.38	9.76	28.14	50.40	-22.26	AVG	P
5	0.6336	31.94	9.78	41.72	56.00	-14.28	QP	P
6	0.6336	23.59	9.78	33.37	46.00	-12.63	AVG	P
7	1.6320	26.08	9.80	35.88	56.00	-20.12	QP	P
8	1.6320	16.89	9.80	26.69	46.00	-19.31	AVG	P
9	4.4079	16.64	9.90	26.54	56.00	-29.46	QP	P
10	4.4079	8.02	9.90	17.92	46.00	-28.08	AVG	P
11	18.2724	26.02	10.58	36.60	60.00	-23.40	QP	P
12	18.2724	20.58	10.58	31.16	50.00	-18.84	AVG	P

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

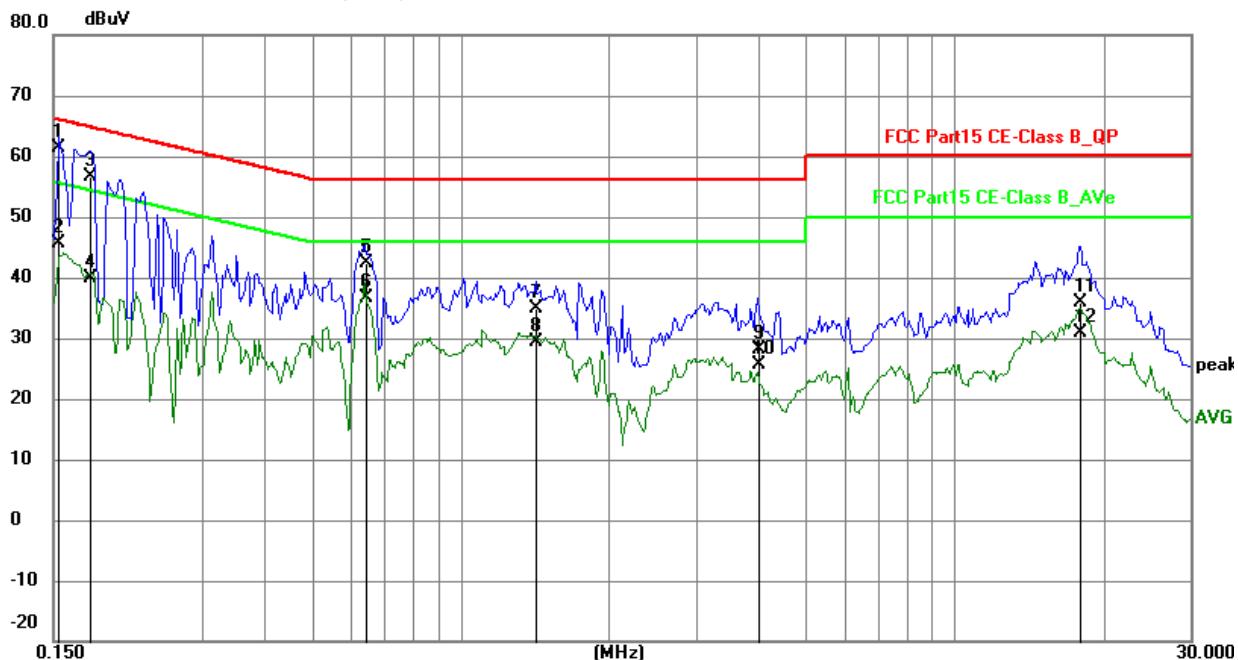
EUT Operating Environment

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

EUT set Condition: 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	0.1539	51.72	9.78	61.50	65.79	-4.29	QP	P
2	0.1539	35.94	9.78	45.72	55.79	-10.07	AVG	P
3	0.1777	46.89	9.77	56.66	64.59	-7.93	QP	P
4	0.1777	30.03	9.77	39.80	54.59	-14.79	AVG	P
5	0.6414	32.68	9.78	42.46	56.00	-13.54	QP	P
6	0.6414	26.73	9.78	36.51	46.00	-9.49	AVG	P
7	1.4253	25.12	9.79	34.91	56.00	-21.09	QP	P
8	1.4253	19.56	9.79	29.35	46.00	-16.65	AVG	P
9	3.9906	18.20	9.89	28.09	56.00	-27.91	QP	P
10	3.9906	15.67	9.89	25.56	46.00	-20.44	AVG	P
11	17.9292	25.38	10.56	35.94	60.00	-24.06	QP	P
12	17.9292	20.21	10.56	30.77	50.00	-19.23	AVG	P

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6 Radiated Emission Test

6.1 Test Method and test Procedure:

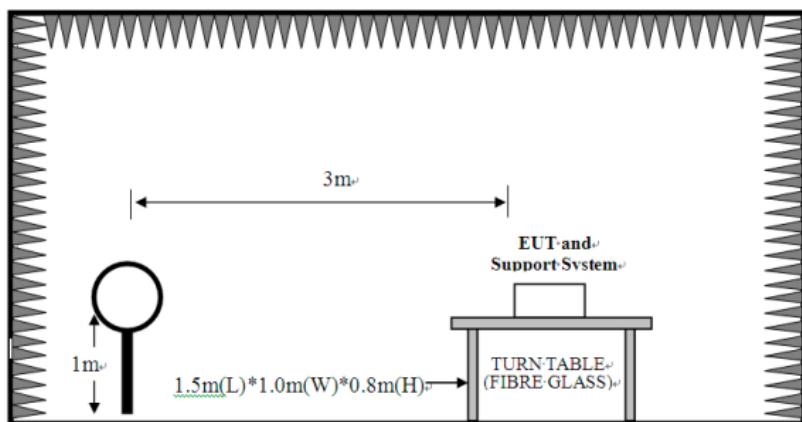
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum is set as follows:

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

- (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



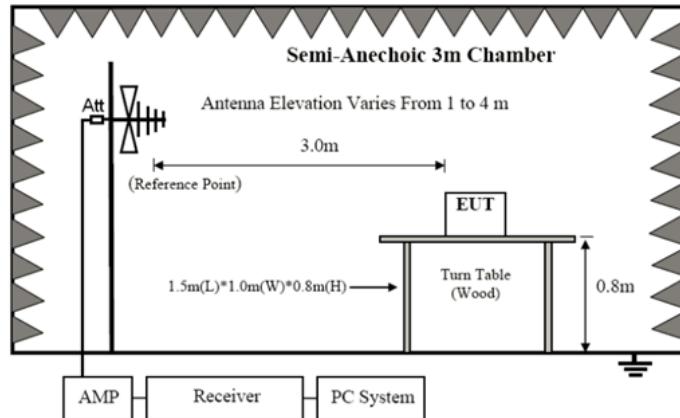
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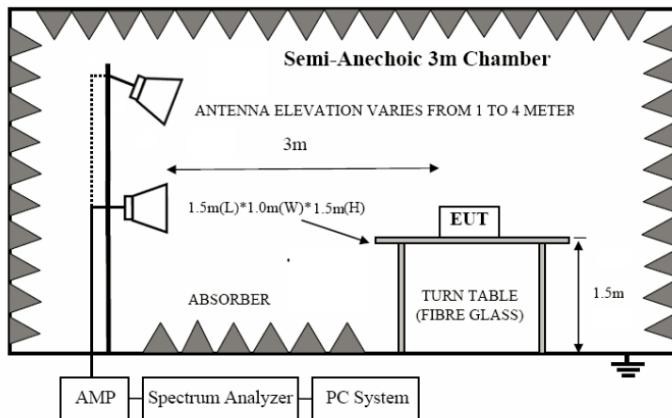
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For radiated emissions from 30MHz to 1GHz



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.

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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 (MHz)	Field Strength of Fundamental (3m)		Field Strength of Harmonics (3m)	
	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) = $20 \log_{10} \text{RF Voltage (uV)}$
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.

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	$20\log_{10}(2400/F(\text{kHz})) + 40\log_{10}(300/3)$
0.490-1.705	3	$20\log_{10}(24000/F(\text{kHz})) + 40\log_{10}(30/3)$
1.705-30	3	69.5
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dBuV) = $20 \log_{10} \text{RF Voltage (uV)}$
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. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
6. This is a portable 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.

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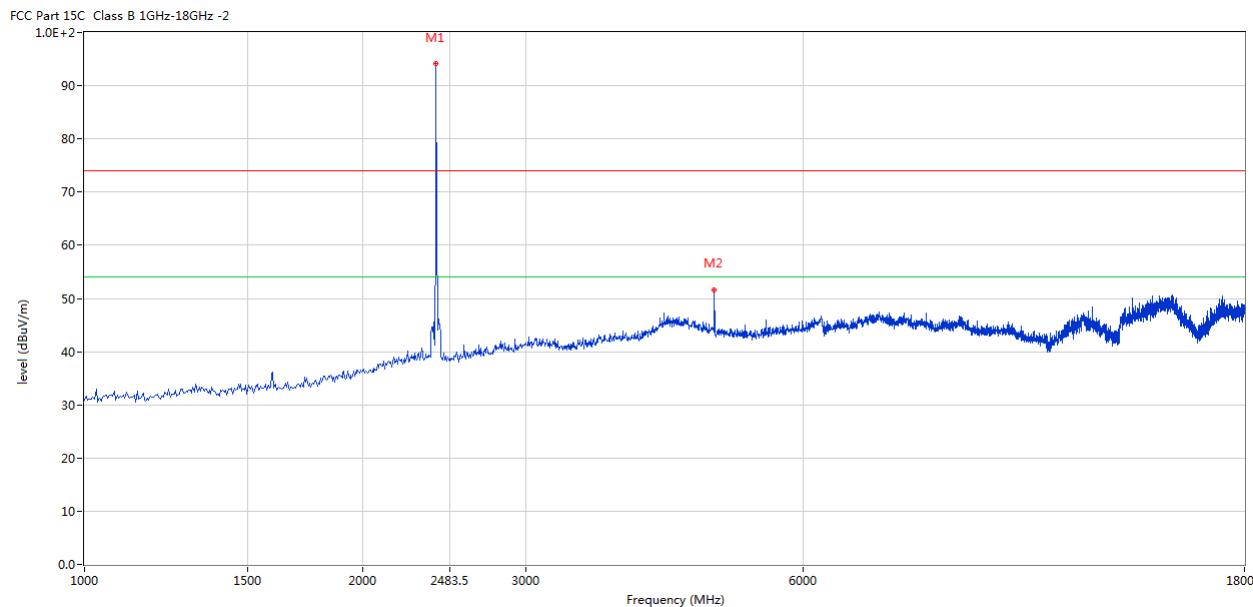


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	94.11	-3.57	114.0	-19.89	Peak	275.00	100	Horizontal	Pass
1*	2402	85.37	-3.57	94.0	-8.63	AV	275.00	100	Horizontal	Pass
2	4802.799	51.68	3.12	74.0	-22.32	Peak	301.00	100	Horizontal	Pass

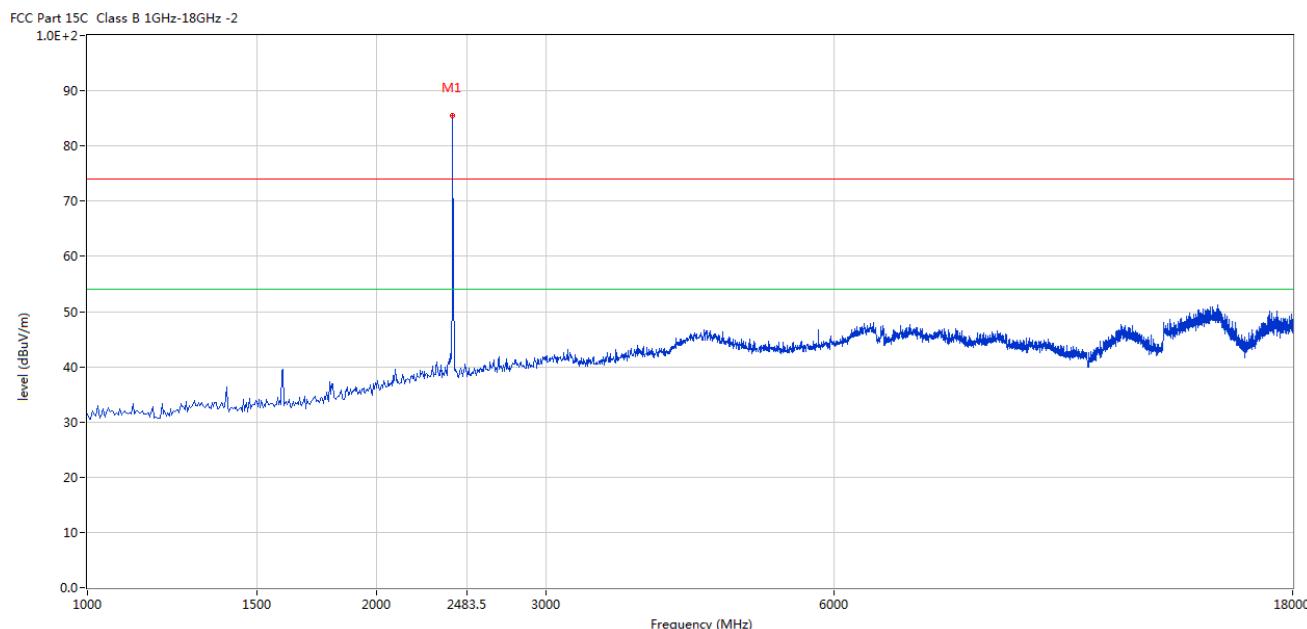
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Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	85.62	-3.57	114.0	-28.38	Peak	162.00	100	Vertical	Pass

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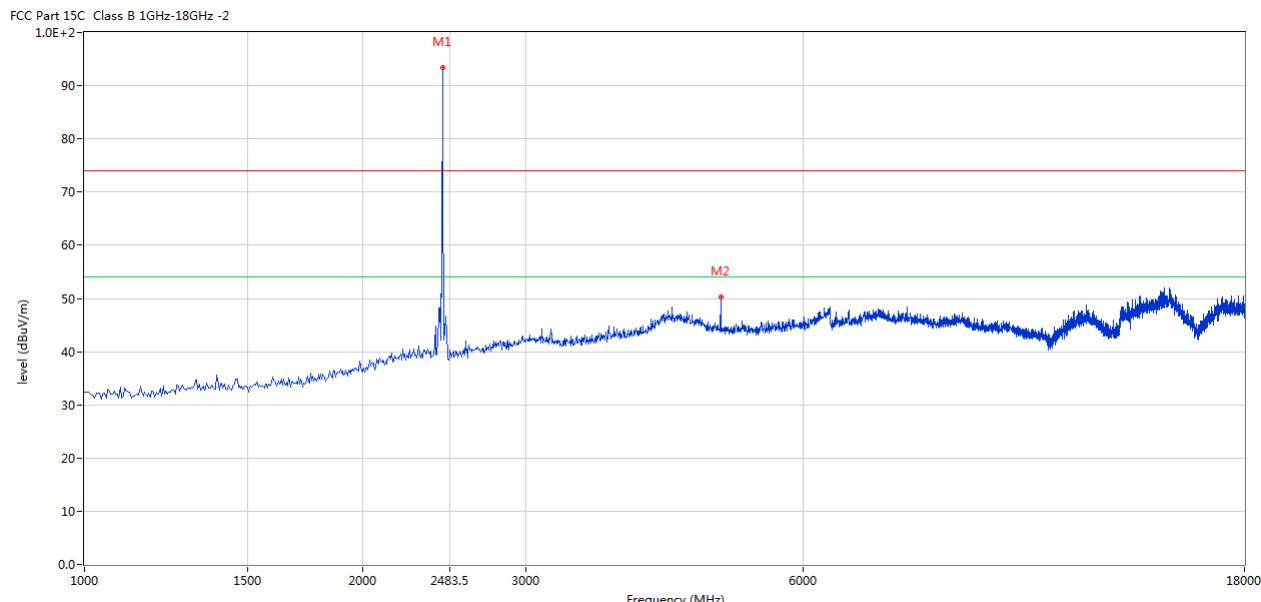
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Please refer to the following test plots for details: Middle Channel-2440MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	93.33	-3.57	114.0	-20.67	Peak	211.00	100	Horizontal	Pass
2	4883.529	50.27	3.20	74.0	-23.73	Peak	276.00	100	Horizontal	Pass

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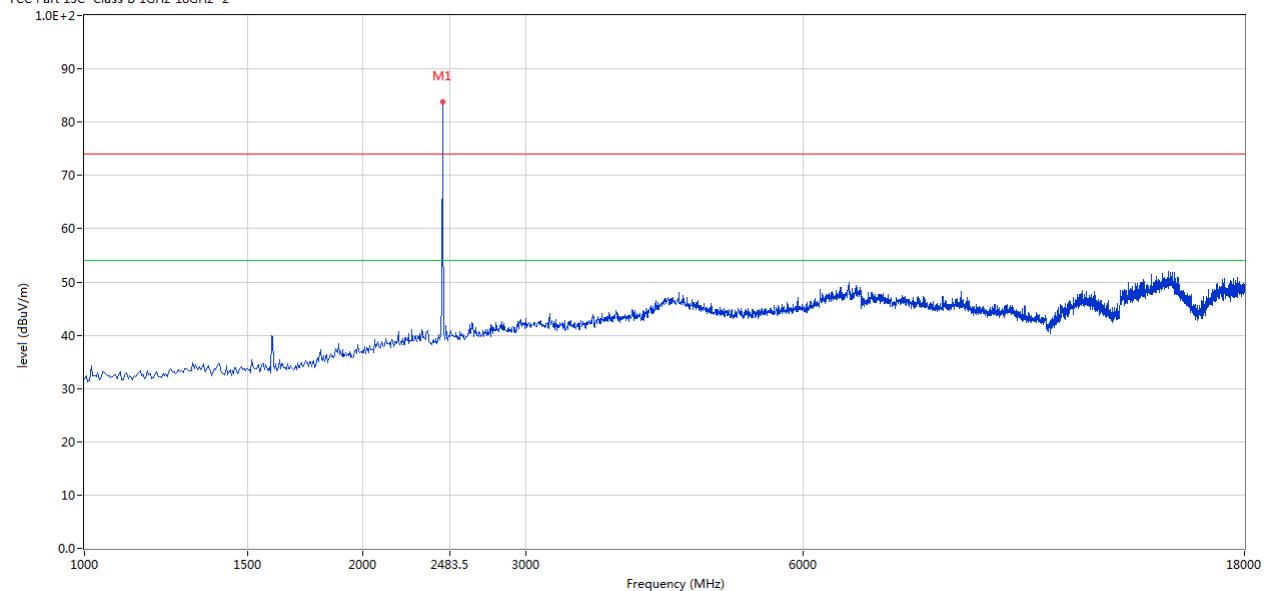
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Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	83.79	-3.57	114.0	-30.21	Peak	308.00	100	Vertical	Pass

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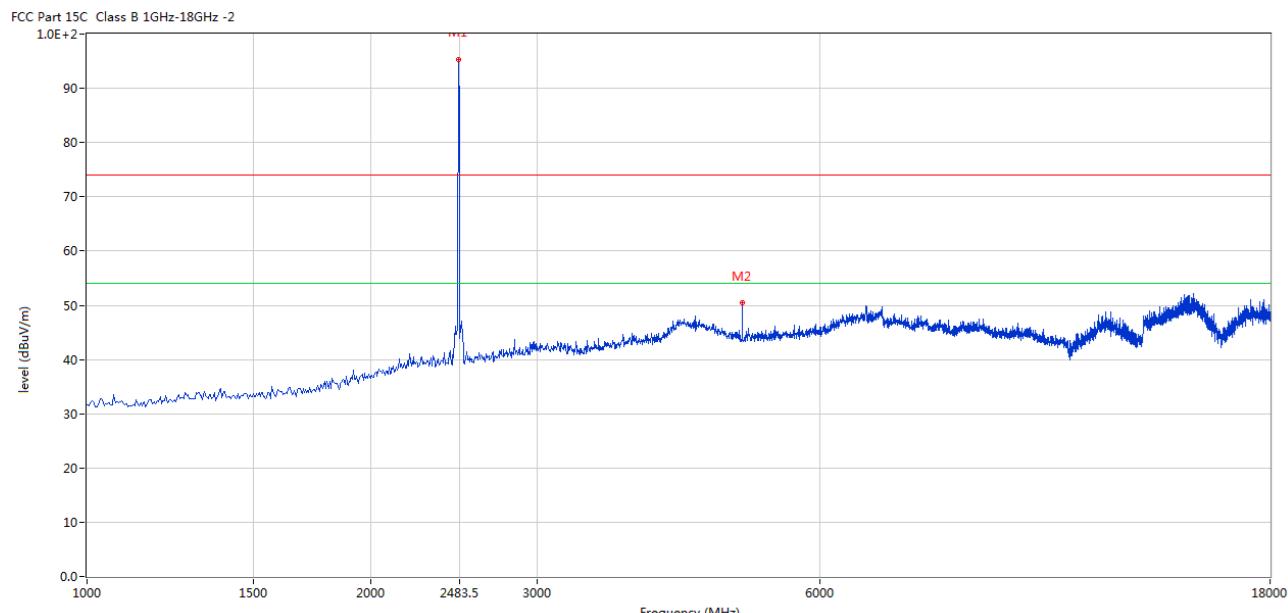
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	95.18	-3.57	114.0	-18.82	Peak	256.00	100	Horizontal	Pass
1*	2480	86.51	-3.57	94.0	-7.49	AV	256.00	100	Horizontal	Pass
2	4960.010	50.42	3.36	74.0	-23.58	Peak	214.00	100	Horizontal	Pass

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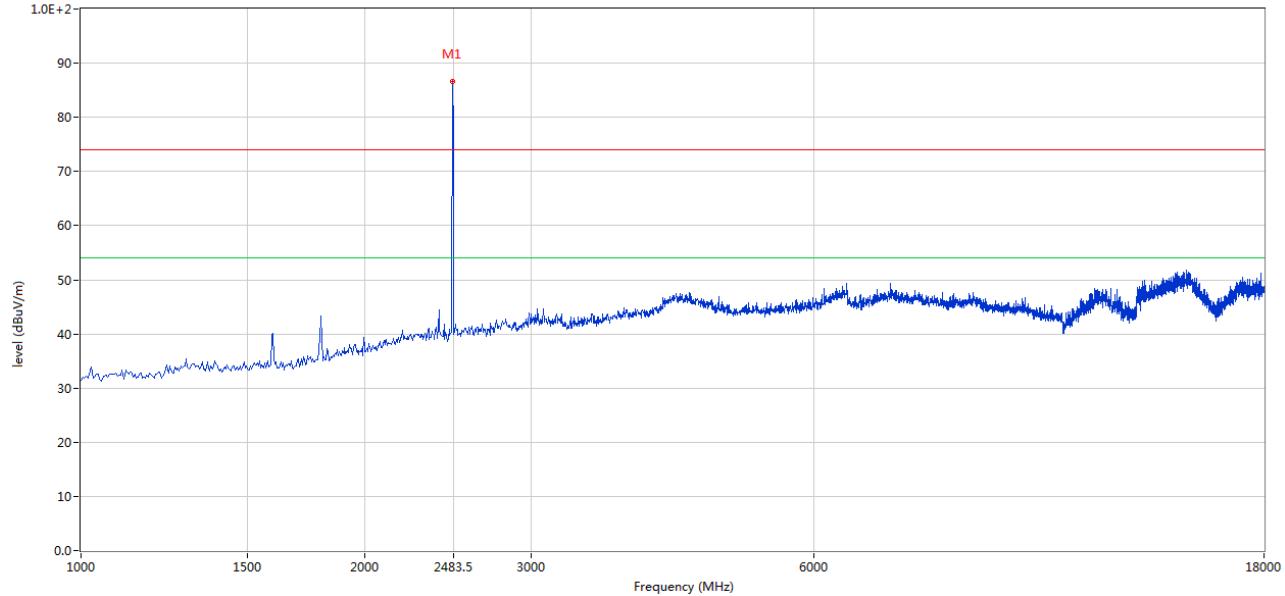
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Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	87.15	-3.57	114.0	-26.85	Peak	188.00	100	Vertical	Pass

Note:

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

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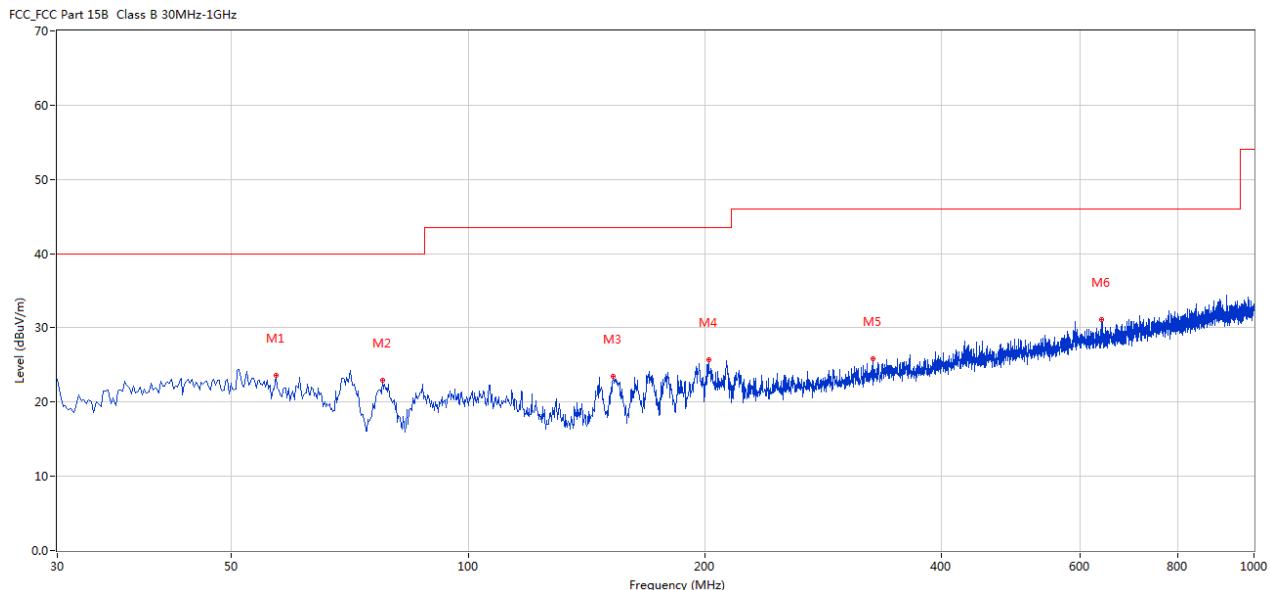
B. General Radiated Emission Data

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

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	56.911	23.66	-12.30	40.0	16.34	Peak	69.00	100	Horizontal	Pass
2	77.761	22.91	-17.54	40.0	17.09	Peak	202.00	100	Horizontal	Pass
3	152.917	23.48	-16.87	43.5	20.02	Peak	284.00	100	Horizontal	Pass
4	202.374	25.75	-13.39	43.5	17.75	Peak	257.00	100	Horizontal	Pass
5	327.231	25.88	-10.32	46.0	20.12	Peak	195.00	100	Horizontal	Pass
6	640.220	31.12	-4.78	46.0	14.88	Peak	69.00	100	Horizontal	Pass

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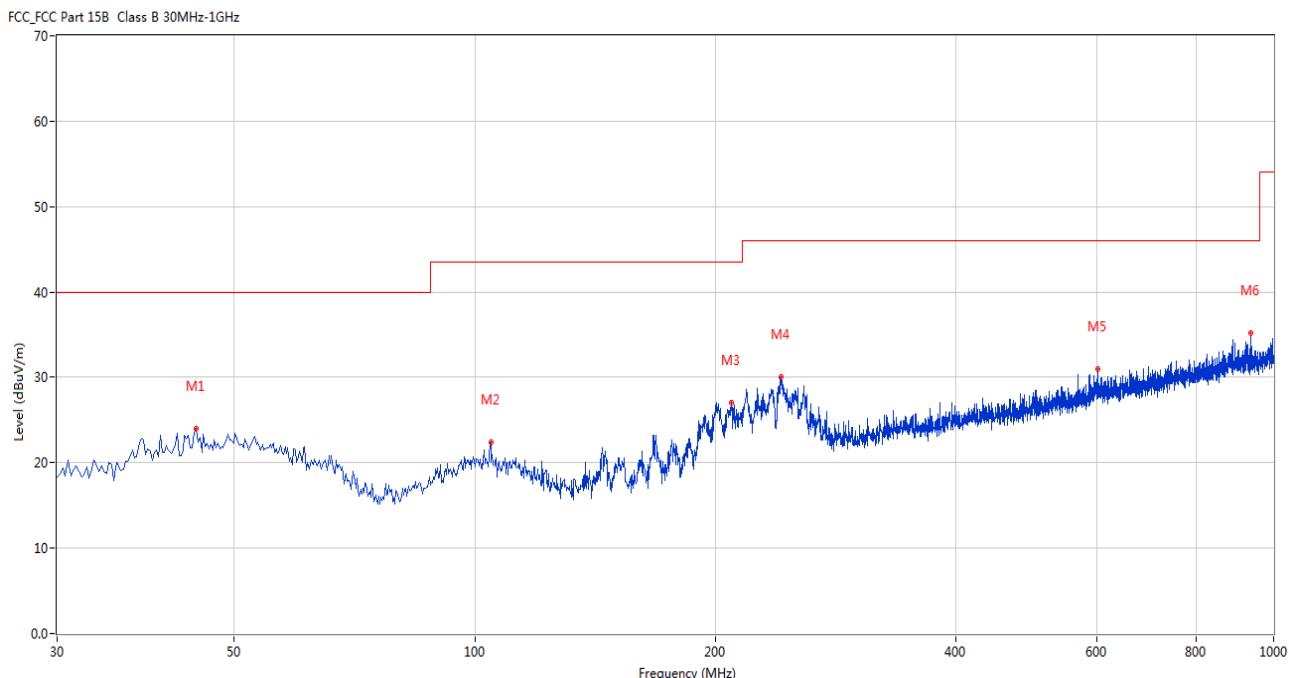


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	44.789	23.94	-11.42	40.0	16.06	Peak	212.00	100	Vertical	Pass
2	104.671	22.44	-13.25	43.5	21.06	Peak	283.00	100	Vertical	Pass
3	209.405	27.06	-13.60	43.5	16.44	Peak	119.00	100	Vertical	Pass
4	241.892	30.04	-12.28	46.0	15.96	Peak	341.00	100	Vertical	Pass
5	601.915	30.99	-5.08	46.0	15.01	Peak	104.00	100	Vertical	Pass
6	935.754	35.16	-1.70	46.0	10.84	Peak	235.00	100	Vertical	Pass

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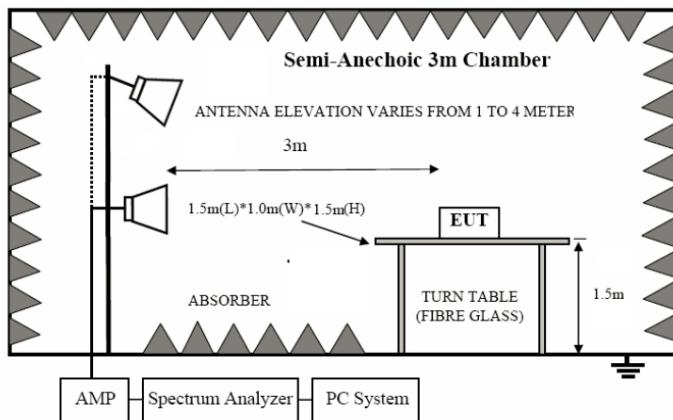


7. Band Edge

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.

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7.6 Test Result

Product:	Wireless Clip-on Earphones		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-18GHz -2										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.992	92.34	-3.57	74.0	18.34	Peak	281.00	100	Horizontal	N/A
2	2400.000	63.12	-3.57	74.0	-10.88	Peak	306.00	100	Horizontal	Pass
2**	2400.000	49.09	-3.57	54.0	-4.91	AV	306.00	100	Horizontal	Pass
3	2390.000	41.06	-3.53	74.0	-32.94	Peak	209.00	100	Horizontal	Pass

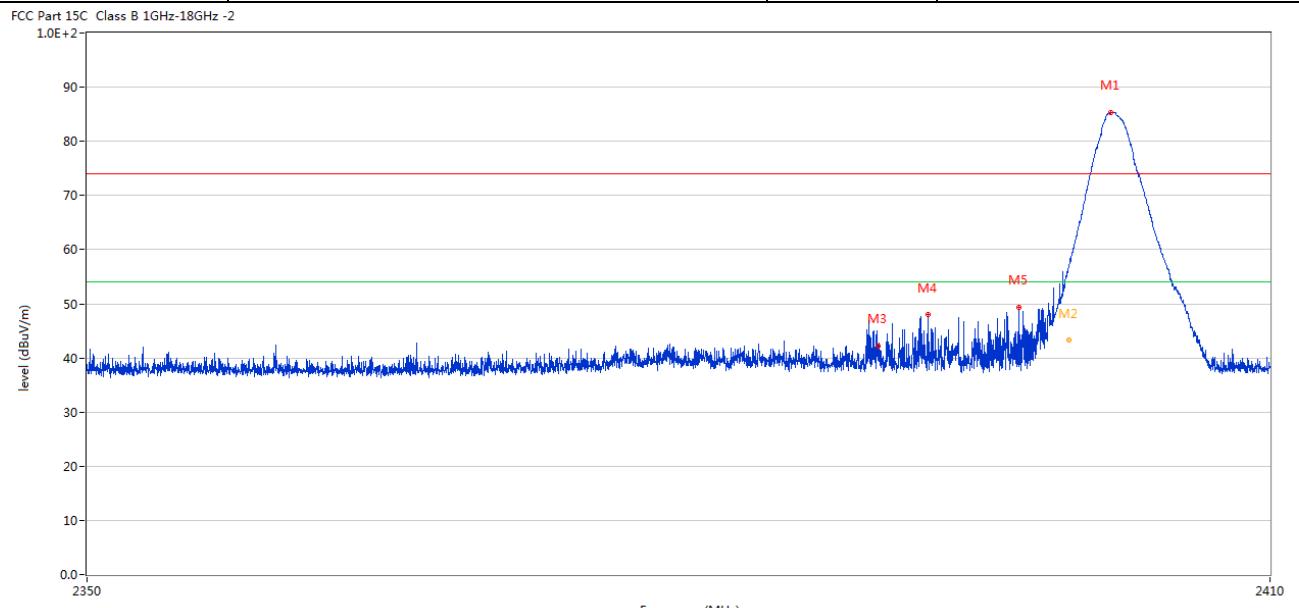
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Product:	Wireless Clip-on Earphones	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.827	85.31	-3.57	74.0	11.31	Peak	163.00	100	Vertical	N/A
2	2400.000	57.30	-3.57	74.0	-16.70	Peak	163.00	100	Vertical	Pass
2**	2400.000	43.24	-3.57	54.0	-10.76	AV	163.00	100	Vertical	Pass
3	2390.000	42.45	-3.53	74.0	-31.55	Peak	286.00	100	Vertical	Pass
4	2392.514	48.05	-3.54	74.0	-25.95	Peak	267.00	100	Vertical	Pass
5	2397.133	49.43	-3.56	74.0	-24.57	Peak	293.00	100	Vertical	Pass

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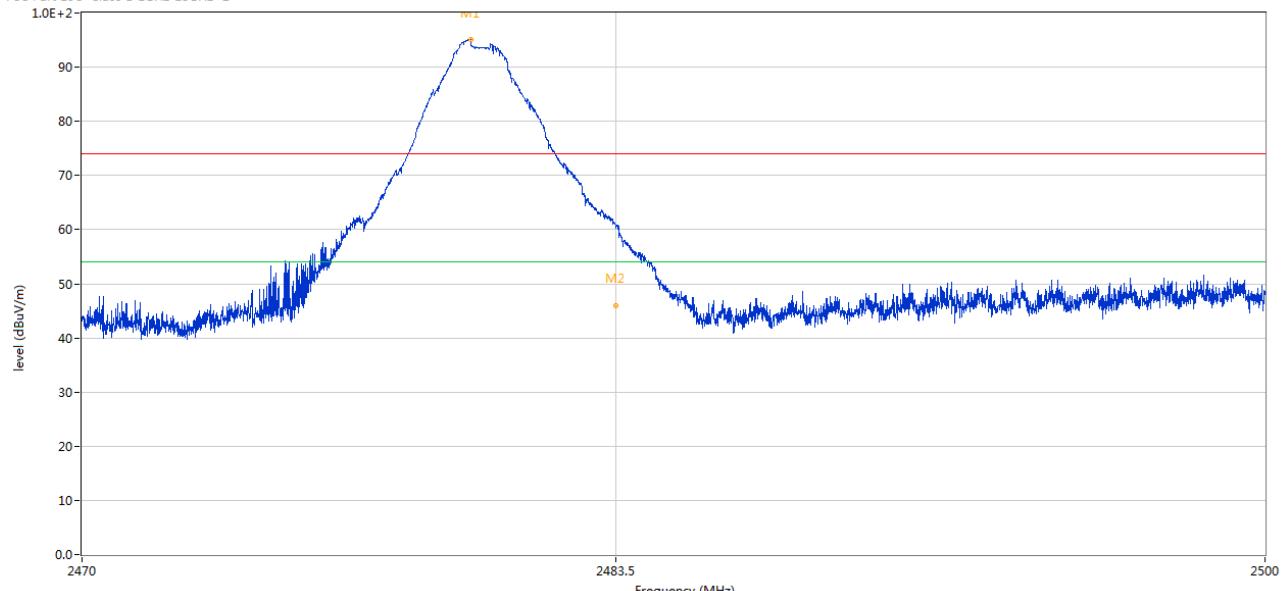
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Product:	Wireless Clip-on Earphones	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.815	95.09	-3.57	74.0	21.09	Peak	209.00	100	Horizontal	N/A
2	2483.500	60.68	-3.57	74.0	-13.32	Peak	209.00	100	Horizontal	Pass
2**	2483.500	46.95	-3.57	54.0	-7.05	AV	209.00	100	Horizontal	Pass

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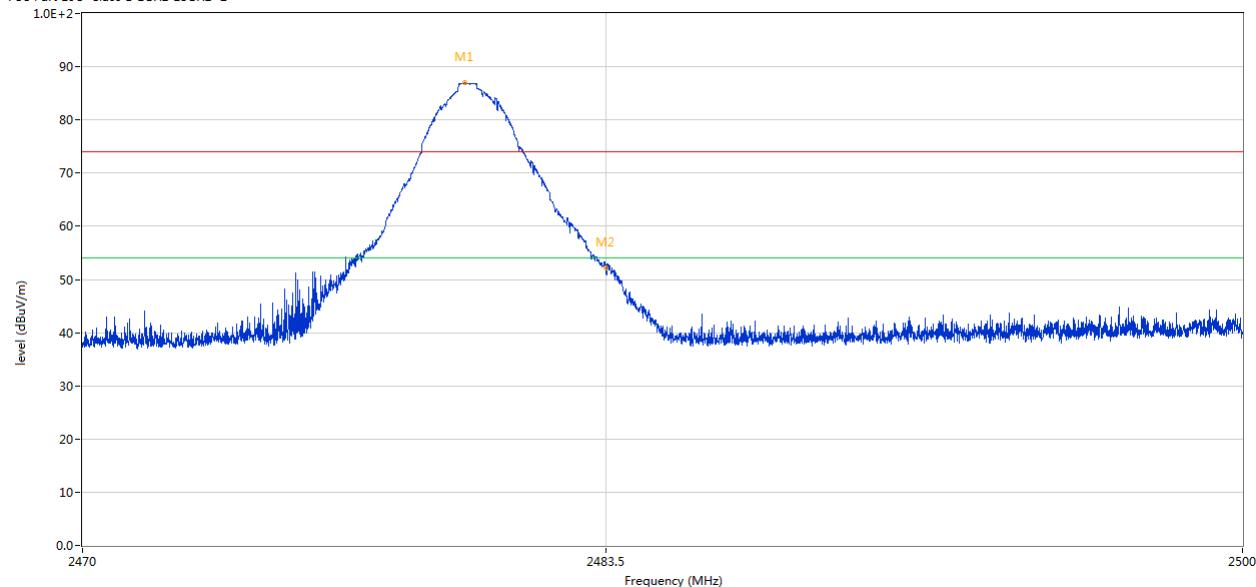
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Product:	Wireless Clip-on Earphones	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.845	86.94	-3.57	74.0	12.94	Peak	338.00	100	Vertical	N/A
2	2483.500	52.09	-3.57	74.0	-21.91	Peak	323.00	100	Vertical	Pass

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

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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 wire antenna. The antenna gain is 1.94dBi Max. It fulfills the requirement of this section.

Test Result: Pass

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9.0 20dB Bandwidth Measurement

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10: 2013

limit

FCC Part15 (15.249) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.249(c)	Bandwidth	2400-2483.5	PASS

TEST PROCEDURE

1. Set resolution bandwidth (RBW) = 1-5% or DTS BW.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



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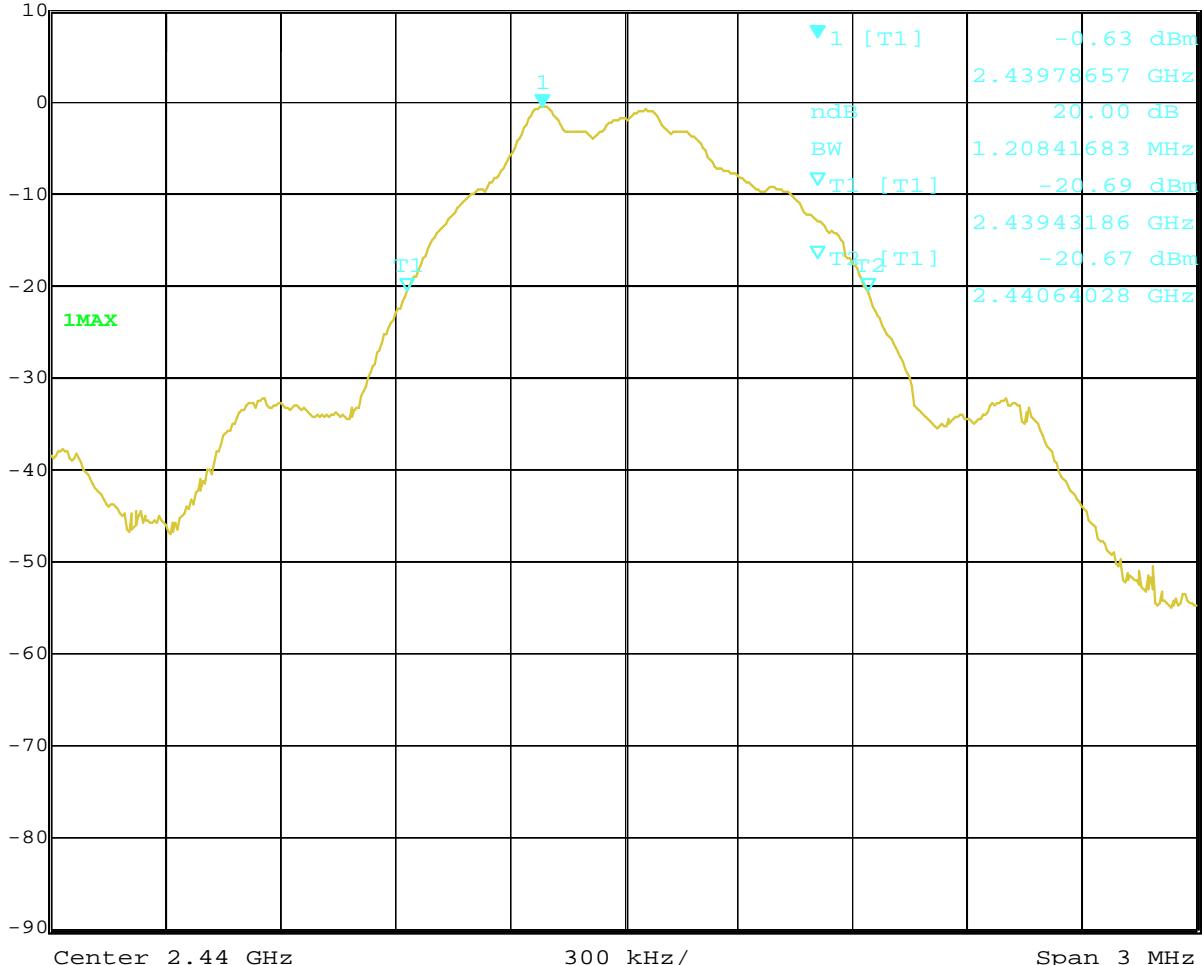
Product:	Wireless Clip-on Earphones	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.208MHz	--	--
<p>Marker 1 [T1 ndB] RBW 100 kHz RF Att 30 dB Ref Lvl ndB 20.00 dB 10 dBm BW 1.20841683 MHz SWT 5 ms Unit dBm</p>			
Date: 25.JUL.2023 16:23:52			

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Product:	Wireless Clip-on Earphones	Test Mode:	Keep transmitting														
Mode	Keeping Transmitting	Test Voltage	DC3.7V														
Temperature	24 deg. C,	Humidity	56% RH														
Test Result:	Pass	Detector	PK														
20dB Bandwidth	1.208MHz	--	--														
 Ref Lvl <table> <tr> <td>Marker 1 [T1 ndB]</td> <td>RBW 100 kHz</td> <td>RF Att 30 dB</td> </tr> <tr> <td>ndB 20.00 dB</td> <td>VBW 300 kHz</td> <td></td> </tr> <tr> <td>10 dBm</td> <td>SWT 5 ms</td> <td>Unit dBm</td> </tr> <tr> <td>BW 1.20841683 MHz</td> <td></td> <td></td> </tr> </table>						Marker 1 [T1 ndB]	RBW 100 kHz	RF Att 30 dB	ndB 20.00 dB	VBW 300 kHz		10 dBm	SWT 5 ms	Unit dBm	BW 1.20841683 MHz		
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ndB 20.00 dB	VBW 300 kHz																
10 dBm	SWT 5 ms	Unit dBm															
BW 1.20841683 MHz																	
																	
Date: 25.JUL.2023 16:23:14																	

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Product:	Wireless Clip-on Earphones	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.208MHz	--	--
Marker 1 [T1 ndB] ndB 20.00 dB BW 1.20841683 MHz Ref Lvl 10 dBm			
RBW 100 kHz RF Att 30 dB VBW 300 kHz SWT 5 ms Unit dBm			
1MAX 1MA			
▼1 [T1] -0.47 dBm 2.47979259 GHz ndB 20.00 dB BW 1.20841683 MHz ▼T1 [T1] -20.36 dBm 2.47943186 GHz ▼T2 [T1] -20.26 dBm 2.48064028 GHz			
Date: 25.JUL.2023 16:22:40			

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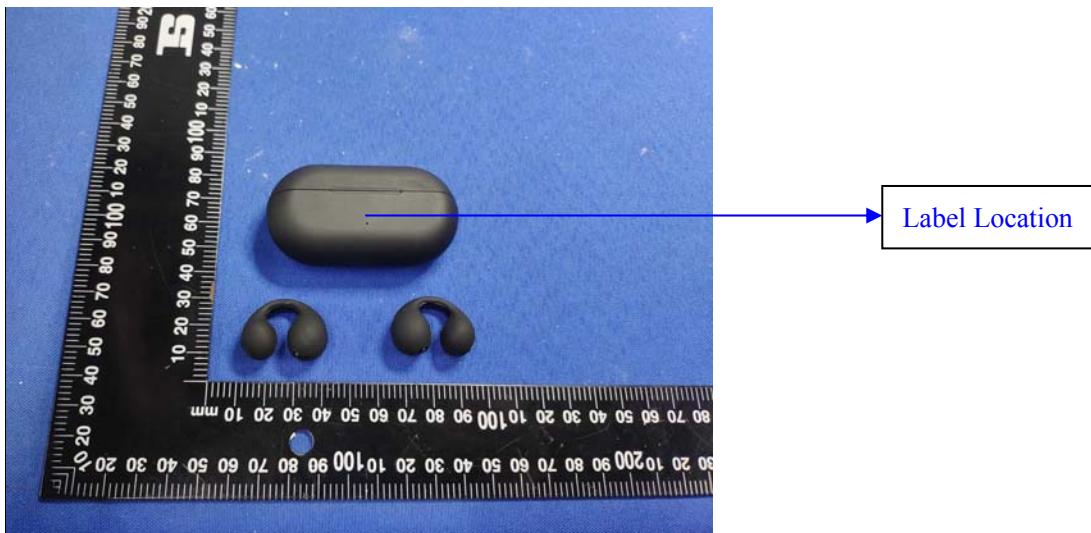


10.0 FCC ID Label

FCC ID: 2BB9C-TW01

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:



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11.0 Photo of testing

11.1 Conducted test View



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Radiated emission test view



Photos of EUT

Please see test report TW2307215-01E

--End of the report--

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