



Report No.: FCC 1905022-02 File reference No.: 2019-05-29

Applicant: KYM Technology Co., Ltd.

Product: TURE WIRELESS STEREO EARBUDS

Model No.: T1A, T2, S1B, H3, H3A, H2A, S3C, S2A, H1A, H1B

Brand Name: N/A

Test Standards: FCC Part 15.247

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10, FCC Part 15.247 for the

evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: May 29, 2019

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.: FCC1905022-02 Page 2 of 46

Date: 2019-05-29



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 CNAL. This approval result is accepted by MRA of APLAC.

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

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 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.

Page 3 of 46

Report No.: FCC1905022-02

Date: 2019-05-29



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	5
2.0	List of Measurement Equipment	6
3.0	Technical Details	7
3.1	Summary of Test Results	7
3.2	Test Standards.	7
4.0	EUT Modification.	7
5.0	Power Line Conducted Emission Test.	8
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
5.1	Test Method and Test Procedure.	12
5.2	Configuration of the EUT	12
6.3	EUT Operation Condition.	12
5.4	Radiated Emission Limit.	13
7.0	6dB Bandwidth Measurement Bandwidth	24
8.0	Maximum Peak Output Power	29
9.0	Power Spectral Density Measurement.	31
10.0	Out of Band Measurement.	36
11.0	Antenna Requirement	43
12.0	FCC ID Label	44
13.0	Photo of Test Setup and EUT View.	45

Date: 2019-05-29



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

1.2 Applicant Details

Applicant: KYM Technology Co., Ltd.

Address: 12A10 Information building, BaoYunDa Logistics Center, XiXiang, ShenZhen

Telephone: 0769-81000160

Fax: --

1.3 Description of EUT

Product: TURE WIRELESS STEREO EARBUDS

Manufacturer: KYM Technology Co., Ltd

Address: Floor 4th, #19 DaLingBian Road, ShaHu Community, TangXia Town, DongGuan

Brand Name: N/A
Additional Brand Name: N/A
Model Number: T1A

Additional Model Number: T2, S1B, H3, H3A, H2A, S3C, S2A, H1A, H1B

Type of Modulation GFSK (Bluetooth BLE)

Frequency range 2402-2480MHz Frequency Selection By software

Channel Number 40

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2019-05-09 to 2019-05-29

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%

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

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Page 5 of 46 Report No.: FCC1905022-02

Date: 2019-05-29

1.7 Test Engineer

The sample tested by

Print Name: Terry Tang

Page 6 of 46

Report No.: FCC1905022-02

Date: 2019-05-29



2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2018-06-22	2019-06-21
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2018-06-22	2019-06-21
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2018-06-22	2019-06-21
Ultra Broadband ANT	R&S	HL562	100157	2018-06-18	2019-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2018-06-22	2019-06-21
Loop Antenna	EMCO	6507	00078608	2018-06-25	2019-06-24
Spectrum	R&S	FSIQ26	100292	2018-06-22	2019-06-21
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2018-06-25	2019-06-24
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-08-24	2019-08-23
Power meter	Anritsu	ML2487A	6K00003613	2018-08-22	2019-08-21
Power sensor	Anritsu	MA2491A	32263	2018-08-22	2019-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2019-07-03
9*6*6 Anechoic			N/A	2018-02-07	2021-02-05
EMI Test Receiver	RS	ESVB	826156/011	2018-06-22	2019-06-21
EMI Test Receiver	RS	ESH3	860904/006	2018-06-22	2019-06-21
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2018-06-22	2019-06-21
Spectrum	HP/Agilent	E4407B	MY50441392	2018-03-27	2019-03-26
Spectrum	RS	FSP	1164.4391.38	2019-01-20	2020-01-19
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2019-05-23	2020-05-22
RF Cable	Zhengdi	7m		2019-03-08	2020-03-07
RF Switch	EM	EMSW18	060391	2018-06-22	2019-06-21
Pre-Amplifier	Schwarebeck	BBV9743	#218	2018-06-22	2019-06-21
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2018-08-05	2019-08-04
LISN	SCHAFFNER	NNB42	00012	2019-01-08	2020-01-07
-					

Report No.: FCC1905022-02

Date: 2019-05-29



3.0 Technical Details

3.1 Summary of test results

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit:	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

Page 8 of 46

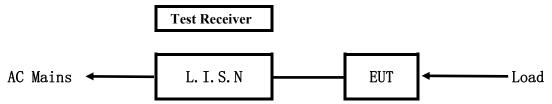
Report No.: FCC1905022-02

Date: 2019-05-29



5.Power Line Conducted Emission Test

5.1 Schematics of the test

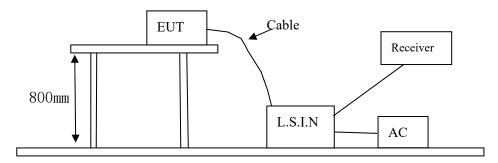


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15 MHz to 30MHz was investigated. The LISN used was 50 ohm/50 uH 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
TURE WIRELESS STEREO		KYM Technology Co.,	T1A, T2, S1B, H3, H3A,	2ATGQ-T1A
EARB	UDS	Ltd	H2A, S3C, S2A, H1A, H1B	ZAIGQ-IIA

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Report No.: FCC1905022-02 Page 9 of 46

Date: 2019-05-29



B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	h.TV	S012BES0500200	Input:100-240V~, 50/60Hz,0.5A;
			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 and 15.107

Frequency	Class A Lim	its (dB µ V)	Class B Limits (dB μ V)			
(MHz)	Quasi-peak Level Average Level		Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	73.0	60.0	56.0	46.0		
5.00 ~ 30.00	73.0	60.0	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

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Report No.: FCC1905022-02

Date: 2019-05-29



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

EUT Operating Environment

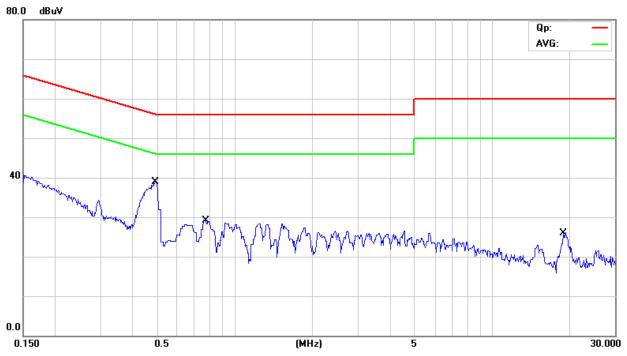
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Bluetooth Transmitting

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBu∀	dBu∨	dB	Detector	Comment
1 *	0.4895	26.10	9.77	35.87	56.18	-20.31	QP	
2	0.4895	3.30	9.77	13.07	46.18	-33.11	AVG	
3	0.7712	13.50	9.78	23.28	56.00	-32.72	QP	
4	0.7712	-12.40	9.78	-2.62	46.00	-48.62	AVG	
5	18.8942	8.90	10.61	19.51	60.00	-40.49	QP	
6	18.8942	-17.70	10.61	-7.09	50.00	-57.09	AVG	



Date: 2019-05-29



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

EUT Operating Environment

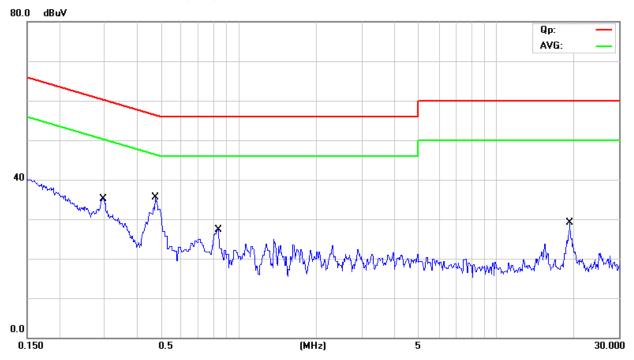
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Bluetooth Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBu∀	dBu∨	dB	Detector	Comment
1	*	0.2948	26.30	9.76	36.06	60.39	-24.33	QP	
2		0.2948	-13.50	9.76	-3.74	50.39	-54.13	AVG	
3		0.4702	18.50	9.77	28.27	56.51	-28.24	QP	
4		0.4702	-10.10	9.77	-0.33	46.51	-46.84	AVG	
5		0.8287	8.80	9.78	18.58	56.00	-37.42	QP	
6		0.8287	-18.50	9.78	-8.72	46.00	-54.72	AVG	
7		19.2992	12.00	10.64	22.64	60.00	-37.36	QP	
8		19.2992	-16.70	10.64	-6.06	50.00	-56.06	AVG	

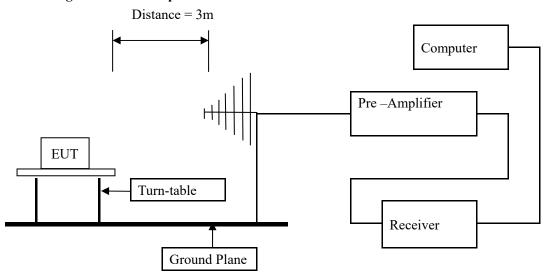
Date: 2019-05-29



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. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. 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) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup



- 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.

Report No.: FCC1905022-02 Page 13 of 46

Date: 2019-05-29



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:

Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
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 RF Voltage (uV)
- 2. In the Above Table, the higher limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

Page 14 of 46

Report No.: FCC1905022-02

Date: 2019-05-29



Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

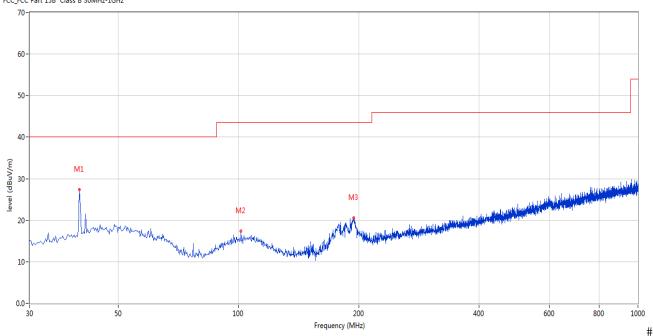
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Test Figure:

FCC_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	39.940	27.39	-12.43	40.0	-12.61	Peak	206.00	200	Н	Pass
2	101.520	17.33	-13.44	43.5	-26.17	Peak	165.00	100	Н	Pass
3	194.374	20.59	-13.83	43.5	-22.91	Peak	110.00	200	Н	Pass

Page 15 of 46

Report No.: FCC1905022-02

Date: 2019-05-29



Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: **Keep Transmitting**

Results: Pass

Test Figure:

#										
No.	Frequen	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	cy (MHz)	(dBuV/m	(dB)	(dBuV/m	Limit			(cm)		
))	(dB)					
1	49.880	19.74	-11.36	40.0	-20.26	Peak	28.00	100	V	Pass
2	204.314	20.32	-13.53	43.5	-23.18	Peak	347.00	100	V	Pass
3	219.588	21.87	-13.32	46.0	-24.13	Peak	360.00	200	V	Pass
4	599.248	27.89	-5.04	46.0	-18.11	Peak	102.00	200	V	Pass

Report No.: FCC1905022-02

Date: 2019-05-29



Operation Mode: Transmitting under Low Channel (2402MHz)

	0	,	
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
4804		H/V	74(Peak)/ 54(AV)
7206		H/V	74(P ak)/ 54(AV)
9608		H/V	74(Peak)/ 54(AV)
12010		H/V	74(Peak)/ 54(AV)
14412		H/V	74(Peak)/ 54(AV)
16814		H/V	74(Peak)/ 54(AV)
9216		H/V	74(Peak)/ 54(AV)
21618		H/V	74(Peak)/ 54(AV)
24020		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

Operation Mode: Transmitting under Middle Channel (2440MHz)

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4880		H/V	74(Peak)/ 54(AV)
7320		H/V	74(Peak)/ 54(AV)
9760		H/V	74(Peak)/ 54(AV)
12200		H/V	74(Peak)/ 54(AV)
14640		H/V	74(Peak)/ 54(AV)
17080		H/V	74(Peak)/ 54(AV)
19520		H/V	74(Peak)/ 54(AV)
21960		H/V	74(Peak)/ 54(AV)
24400		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

Page 17 of 46 Report No.: FCC1905022-02

Date: 2019-05-29



Operation Mode: Transmitting under High Channel (2480MHz)

	8 8	` ′	
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
4960		H/V	74(Peak)/ 54(AV)
7440		H/V	74(Peak)/ 54(AV)
9920		H/V	74(Peak)/ 54(AV)
12400		H/V	74(Peak)/ 54(AV)
14880		H/V	74(Peak)/ 54(AV)
17360		H/V	74(Peak)/ 54(AV)
19840		H/V	74(Peak)/ 54(AV)
22320		H/V	74(Peak)/ 54(AV)
24800		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

^{2.} Remark "---" means that the emissions level is too low to be measured

Page 18 of 46

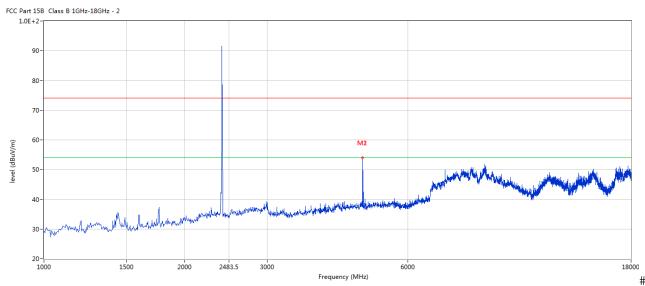
Report No.: FCC1905022-02

Date: 2019-05-29



Please refer to the following test plots for details:

Low Channel: Vertical



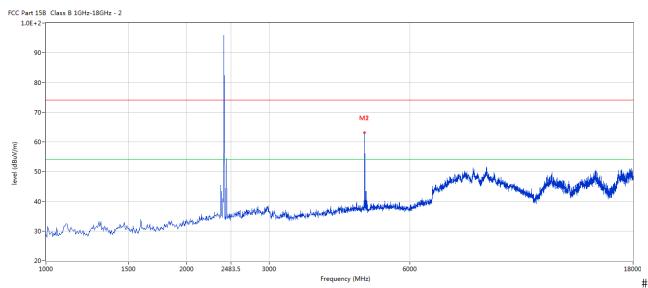
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	4802.799	54.05	3.12	74.0	-19.95	Peak	204.00	100	V	Pass
2	4802.799	37.25	3.12	54.0	-16.75	AV	204.00	100	V	Pass

Page 19 of 46 Report No.: FCC1905022-02

Date: 2019-05-29



Low Channel: Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m	(dB)			(cm)		
)						
1	4802.799	63.06	3.12	74.0	-10.94	Peak	125.00	100	Н	Pass
2	4802.799	46.21	3.12	54.0	-7.79	AV	125.00	100	Н	Pass

Report No.: FCC1905022-02 Page 20 of 46

Date: 2019-05-29

1

4879.280

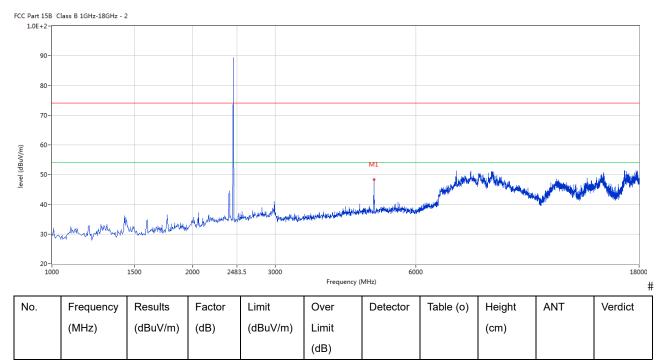
48.39

3.20

74.0



Middle Channel: Vertical



-25.61

Peak

359.00

100

٧

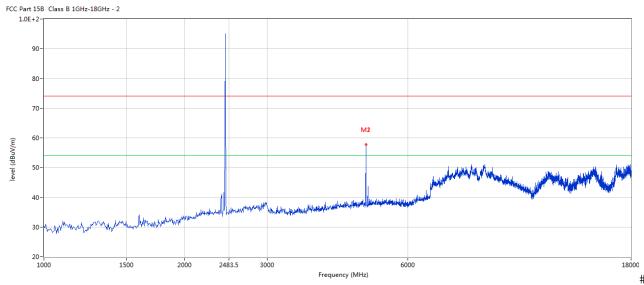
Pass

Report No.: FCC1905022-02 Page 21 of 46

Date: 2019-05-29



Middle Channel: Horizontal



No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit			(cm)		
					(dB)					
1	4883.529	57.79	3.20	74.0	-16.21	Peak	269.00	100	Н	Pass
2	4883.529	40.18	3.20	54.0	-13.82	AV	269.00	100	Н	Pass

Page 22 of 46

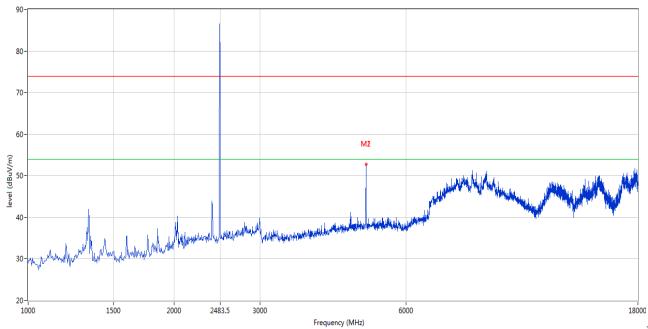
Report No.: FCC1905022-02

Date: 2019-05-29



High Channel: Vertical





No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	4960.010	52.70	3.36	74.0	-21.30	Peak	252.00	100	V	Pass
2	4960.010	35.93	3.36	54.0	-18.07	AV	252.00	100	٧	Pass

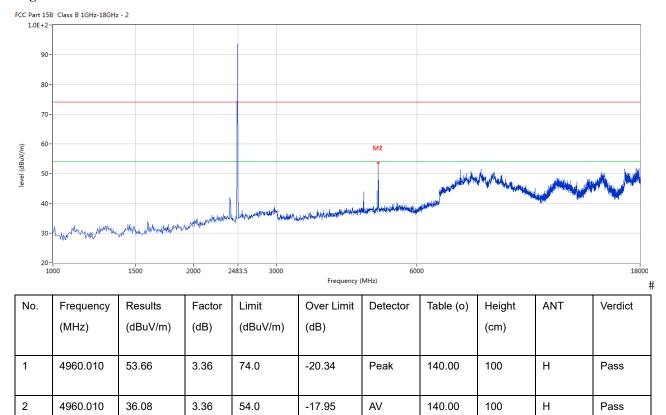
Page 23 of 46

Report No.: FCC1905022-02

Date: 2019-05-29



High Channel: Horizontal



Ħ

Note: for the radiated emissions above 18G, it is the floor noise.

Page 24 of 46

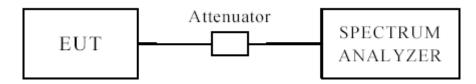
Report No.: FCC1905022-02

Date: 2019-05-29



7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

- 1. Set resolution bandwidth (RBW) = 100 kHz
- 2. Set the video bandwidth (VBW) \geq 3 x 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.

7.4 Test Result

Page 25 of 46 Report No.: FCC1905022-02

Date: 2019-05-29



6dB BW

oud b w								
EUT		TURE WIRELE	SS STEREO	Model			T1A	
		EARBU	JDS					
Mode		Keep Trans	smitting Input Voltage		e		DC3.7V	
Temperat	ure	24 deg. C,		g. C, Humidity		midity 56% RH		
Channel	Ch	annel Frequency (MHz)	_	andwidth Hz)	M	inimum Limit (kHz)	Pass/ Fail	
Low		2402	6	67		0.5	Pass	
Middle		2440	6	661		661 0.5		Pass
High		2480	6	667		0.5	Pass	

Page 26 of 46

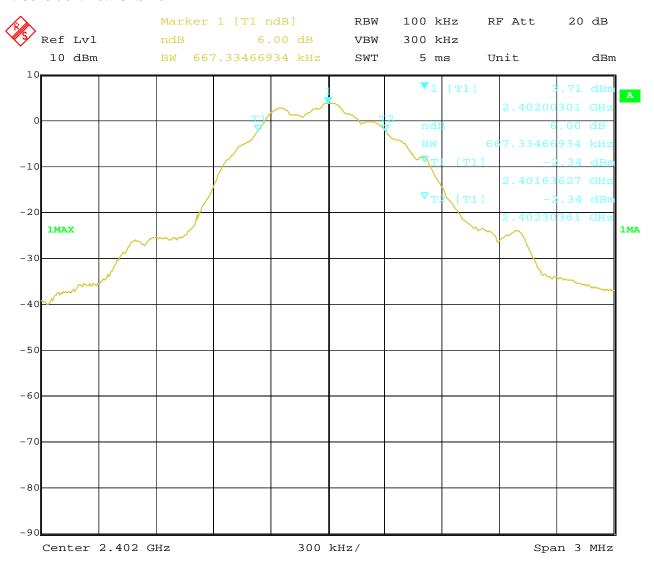
Report No.: FCC1905022-02

Date: 2019-05-29



Test Figure:

1. Condition: Low Channel



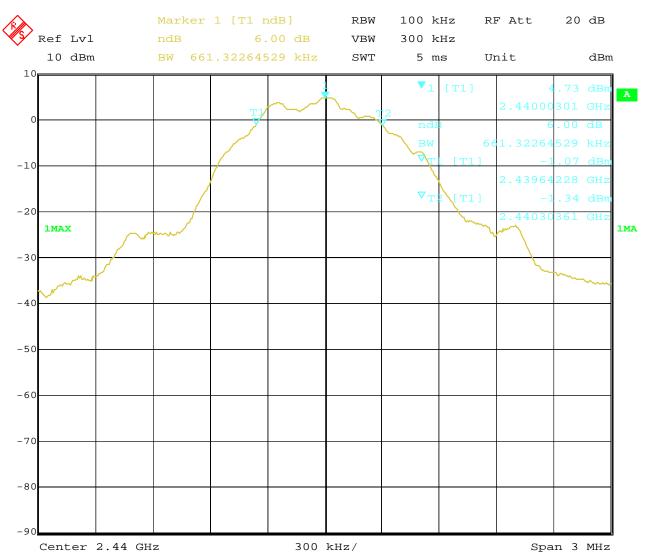
Date: 27.MAY.2019 14:23:39

Report No.: FCC1905022-02 Page 27 of 46

Date: 2019-05-29



2. Condition: Middle Channel



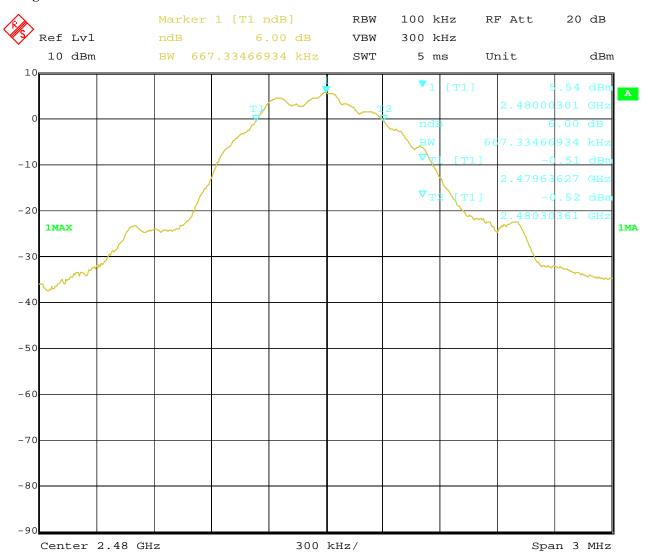
Date: 27.MAY.2019 14:25:09

Report No.: FCC1905022-02 Page 28 of 46

Date: 2019-05-29



3. High Channel



Date: 27.MAY.2019 14:25:57

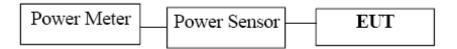
Report No.: FCC1905022-02 Page 29 of 46

Date: 2019-05-29



8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the Peak power were measured.

Page 30 of 46 Report No.: FCC1905022-02

Date: 2019-05-29



8.4Test Results

EUT		TURE WIRE STEREO EAR		Model		T1A	
Mode		Keep Transm	nitting	Input Voltage		DC3.7V	7
Temperatu	re	24 deg. (С,	Humidity		56% RF	I
Channel	Cł	nannel Frequency (MHz)	Мах	x. Power Output (dBm)		Peak Power Limit	Pass/ Fail
т		2402		Peak		(dBm)	D
Low		2402	4.21			30	Pass
Middle		2440	5.26			30	Pass
High		2480		6.09		30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

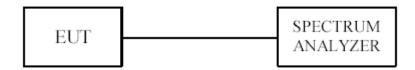
Report No.: FCC1905022-02 Page 31 of 46

Date: 2019-05-29



9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW = 10 kHz.
- 3. Set the VBW \geq 30 kHz.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be ≤ 8 dBm.

Page 32 of 46 Report No.: FCC1905022-02

Date: 2019-05-29



9.4Test Result

EUT		TURE WIRELESS STEREO EARBUDS			Model	T1A	
Mode		Keep Transmitting			Input Voltage	DC3.7V	
Temperat	ture 24 deg. C,		Humidity	56	% RH		
Channel	Re	Power ading (Bm)	Loss		inal Power Spectral Density (dBm)	Maximum Limit (dBm)	Pass/ Fail
Low	3	3.28	0.2		3.48	8	Pass
Middle		1.29	0.2		4.49	8	Pass
High	4	5.09	0.2		5.29	8	Pass

Note: The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss

Page 33 of 46

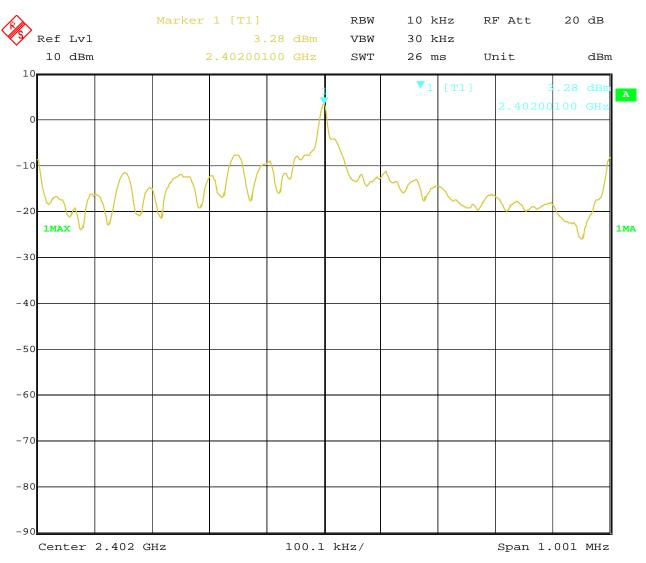
Report No.: FCC1905022-02

Date: 2019-05-29



Test Figure:

1. Condition: Low Channel



Date: 27.MAY.2019 14:31:24

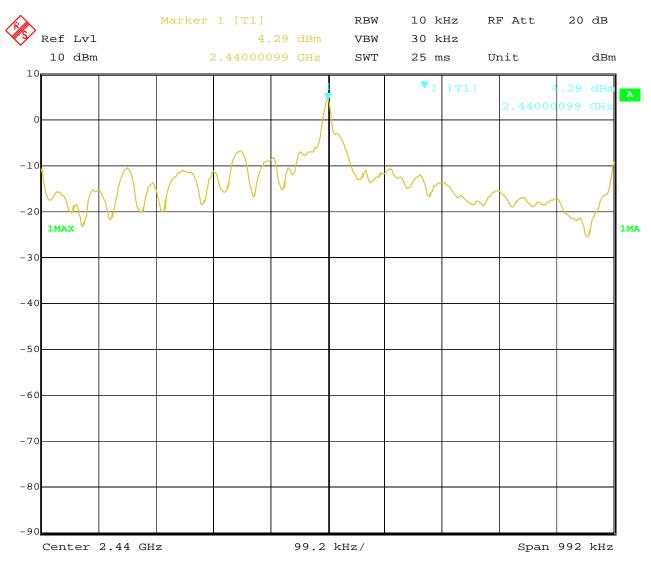
Page 34 of 46

Report No.: FCC1905022-02

Date: 2019-05-29



2. Condition: Middle Channel



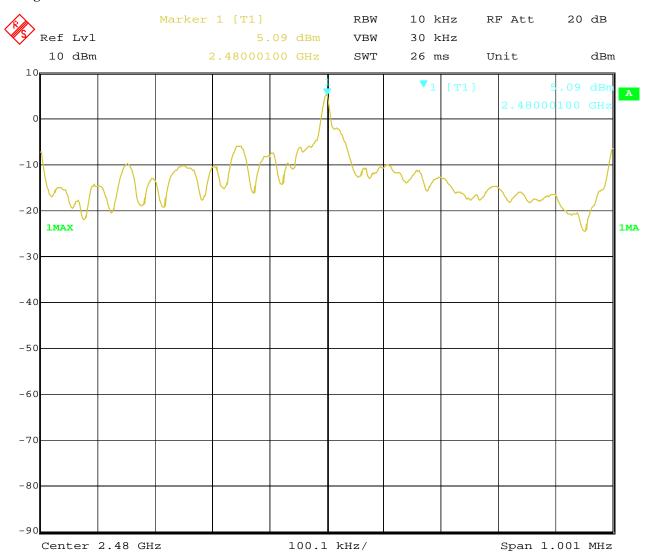
Date: 27.MAY.2019 14:32:54

Report No.: FCC1905022-02 Page 35 of 46

Date: 2019-05-29



3. High Channel



Date: 27.MAY.2019 14:33:37

Page 36 of 46

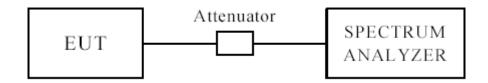
Report No.: FCC1905022-02

Date: 2019-05-29



10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

Page 37 of 46

Report No.: FCC1905022-02

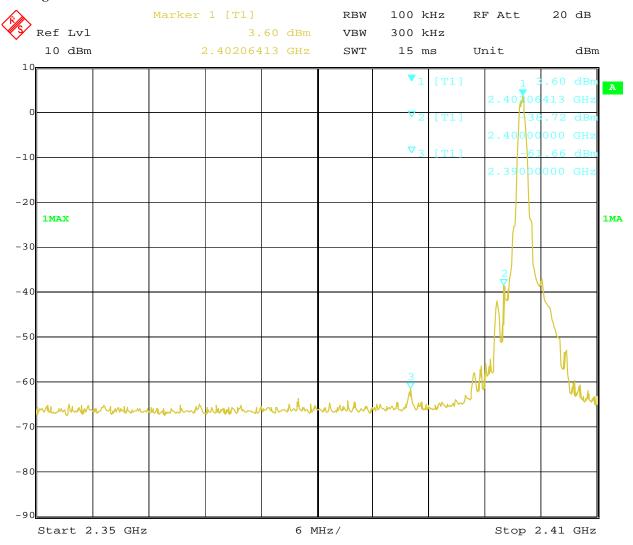
Date: 2019-05-29



10.4 Band-edge Measurement

EUT	TURE WIRELESS STEREO	Model	T1A
	EARBUDS		
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result: Pass		Detector	PK

Test Figure:



Date: 27.MAY.2019 14:36:49

Note: The Max. FS in Restrict Band are measured in conventional method.

Page 38 of 46

Report No.: FCC1905022-02

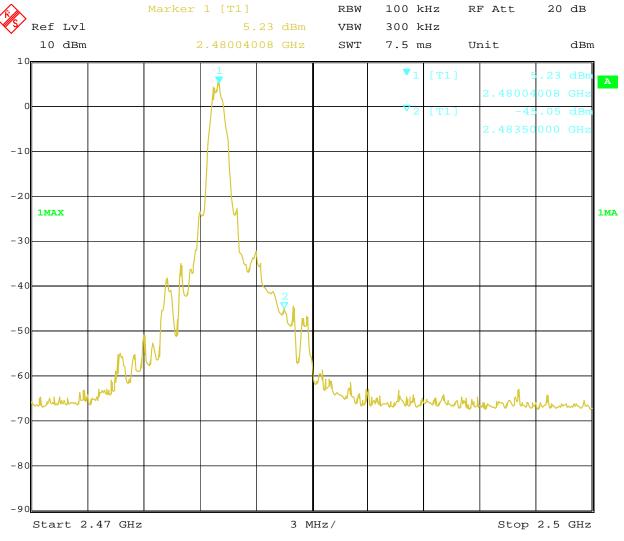
Date: 2019-05-29



10.4 Band-edge Measurement

EUT	TURE WIRELESS STEREO	Model	T1A
	EARBUDS		
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result: Pass		Detector	PK

Test Figure:



Date: 27.MAY.2019 14:34:58

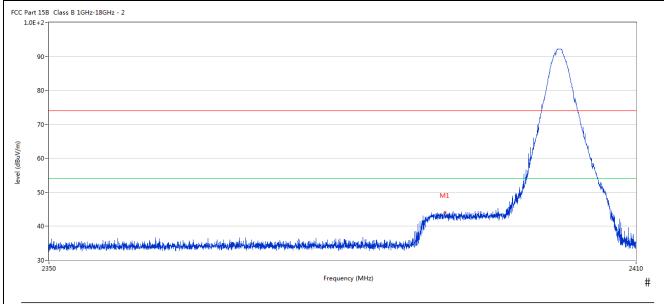
Note: The Max. FS in Restrict Band are measured in conventional method.

Report No.: FCC1905022-02 Page 39 of 46

Date: 2019-05-29



EUT	TURE WIRELESS	Model	T1A
	STEREO EARBUDS		
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



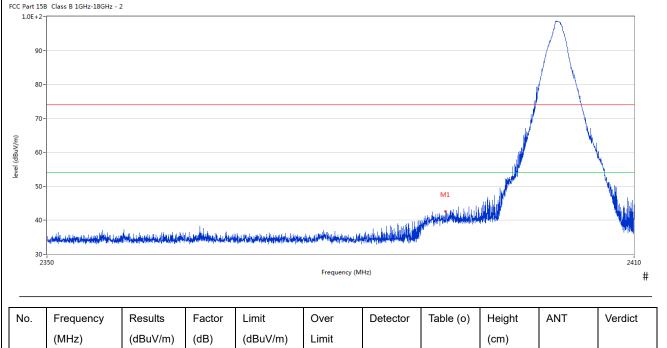
(MHz) (dBuV/m) (dB) (dBuV/m) Limit (dB) (cm)	No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit			(cm)		
1 2390 44.05 -3.53 74.0 -29.95 Peak 286.00 100						(dB)					
	1	2390	44.05	-3.53	74.0	-29.95	Peak	286.00	100	V	Pass

Report No.: FCC1905022-02 Page 40 of 46

Date: 2019-05-29



EUT	TURE WIRELESS STEREO	Model	T1A
	EARBUDS		
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



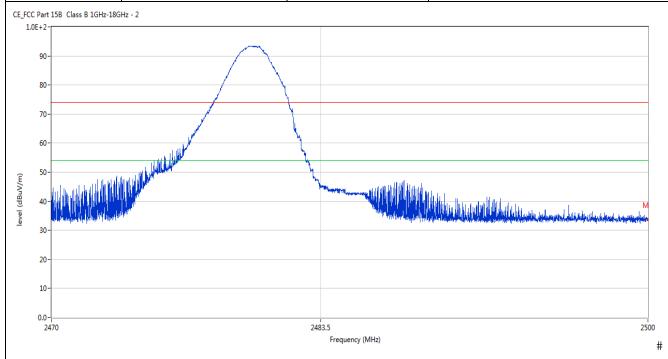
	No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit			(cm)		
						(dB)					
	1	2390	42.65	-3.53	74.0	-31.35	Peak	270.00	100	Н	Pass
F											

Report No.: FCC1905022-02 Page 41 of 46

Date: 2019-05-29



EUT	TURE WIRELESS	Model	T1A
	STEREO EARBUDS		
Mode Keep Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



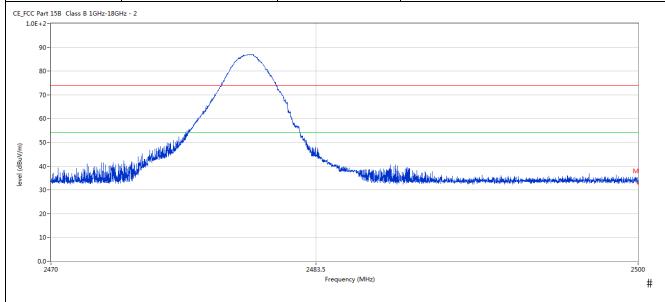
N	lo.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1		2483.5	45.81	-3.57	74.0	-28.19	Peak	218.00	100	Н	Pass
			•				•				•

Report No.: FCC1905022-02 Page 42 of 46

Date: 2019-05-29



EUT	TURE WIRELESS	Model	T1A
STEREO EARBUDS			
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No	Ο.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit			(cm)		
						(dB)					
1		2483. 5	48.22	-3.57	74.0	-25.78	Peak	324.00	100	V	Pass

Report No.: FCC1905022-02

Date: 2019-05-29



Page 43 of 46

11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Integral antenna used. The gain of the antennas is -1.17dBi.

Report No.: FCC1905022-02 Page 44 of 46

Date: 2019-05-29

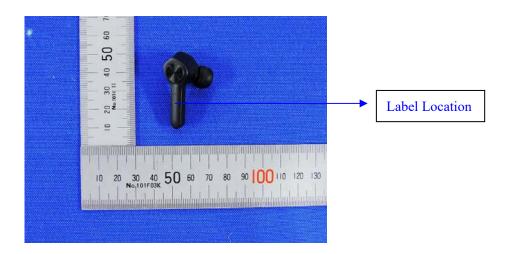


12.0 FCC ID Label

FCC ID: 2ATGQ-T1A

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 45 of 46

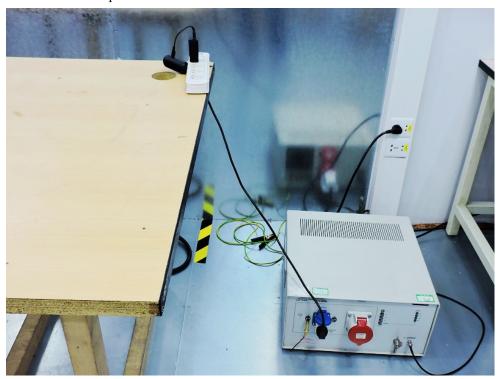
Report No.: FCC1905022-02

Date: 2019-05-29



13.0 **Photo of testing**

Conducted Emission Test Setup:

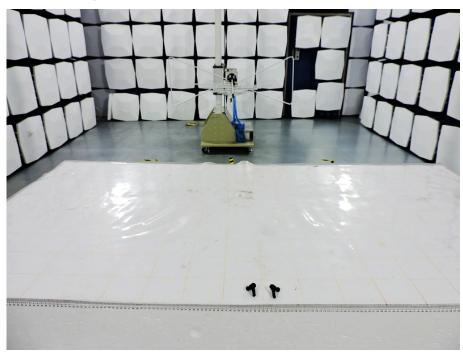


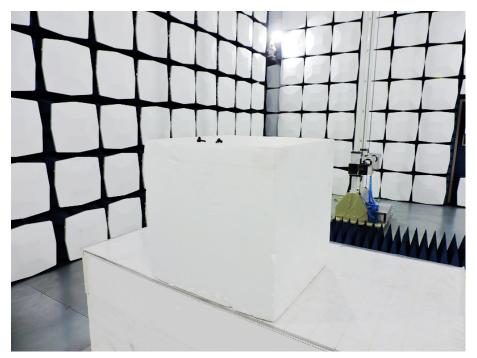
Report No.: FCC1905022-02

Date: 2019-05-29



Radiated Emission Test Setup:





Photographs – EUT

Please see test report EMC1905022-01

End of the report

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

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