

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

Bluetooth Stereo Earbuds with Mic
Model No.: CB-BE215, 2199578, BSE-0865

FCC ID: 2AD42-CB-BE215

Prepared for : CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.
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Report No. : ATE20172116
Date of Test : October 30-November 4, 2017
Date of Report : November 6, 2017

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Test Report Certification

Applicant : CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.
Manufacturer : CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.
EUT Description : Bluetooth Stereo Earbuds with Mic
Model No. : CB-BE215, 2199578, BSE-0865
Trade Mark : n.a.

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247: 2016
ANSI C63.10: 2013**

The EUT was tested according to DTS test procedure of Apr 05, 2017 KDB558074 D01 DTS Meas Guidance v04 for compliance to FCC 47CFR 15.247 requirements

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

Date of Test :

October 30-November 4, 2017

Date of Report:

November 6, 2017

Prepared by :

(Bob Wang, Engineer)



Approved & Authorized Signer :

(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	Bluetooth Stereo Earbuds with Mic
Model Number	:	CB-BE215, 2199578, BSE-0865
(Note: We hereby state that these models are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement. So we prepare the CB-BE215 for test.)		
Trade Mark	:	n.a.
Bluetooth version	:	BT V4.0
Frequency Range	:	2402MHz-2480MHz
Number of Channels	:	40
Antenna Gain	:	1dBi
Antenna type	:	PCB Antenna
Power Supply	:	DC 3.7V & DC 5V(Power by USB port)
Modulation mode	:	GFSK
Applicant	:	CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.
Address	:	Rm 1701, Zhuoyue Building, Fuhua Yi Rd., Futian Central Zone, Shenzhen, P.R.China.
Manufacturer	:	CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.
Address	:	Rm 1701, Zhuoyue Building, Fuhua Yi Rd., Futian Central Zone, Shenzhen, P.R.China.
Date of sample received	:	October 26, 2017
Date of Test	:	October 30-November 4, 2017
Sample No.	:	1701430

1.2. Special Accessory and Auxiliary Equipment

Adapter: Model:BEK-QC-001
INPUT: 120V~60Hz
OUTPUT:5V/1A

1.3.Carrier Frequency of Channels

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channe 1	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

1.4.Description of Test Facility

EMC Lab	: Recognition of accreditation by Federal Communications Commission (FCC) The Designation Number is CN1189 The Registration Number is 708358
	Listed by Innovation, Science and Economic Development Canada (ISED) The Registration Number is 5077A-2
	Accredited by China National Accreditation Service for Conformity Assessment (CNAS) The Registration Number is CNAS L3193
	Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01
Name of Firm	:
Site Location	: Shenzhen Accurate Technology Co., Ltd. 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

1.5.Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 7, 2017	1 Year
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 7, 2017	1 Year
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 7, 2017	1 Year
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 7, 2017	1 Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 13, 2017	1 Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 13, 2017	1 Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 13, 2017	1 Year
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 13, 2017	1 Year
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 7, 2017	1 Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 7, 2017	1 Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 7, 2017	1 Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 7, 2017	1 Year

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: **BLE Transmitting mode**

Low Channel: 2402MHz

Middle Channel: 2440MHz

High Channel: 2480MHz

3.2.Configuration and peripherals

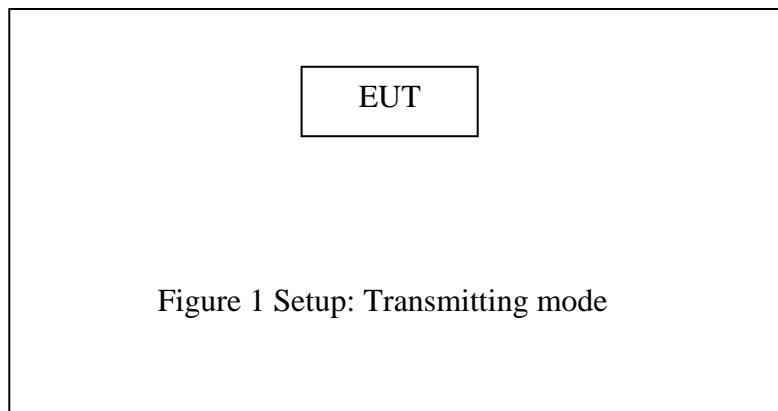


Figure 1 Setup: Transmitting mode

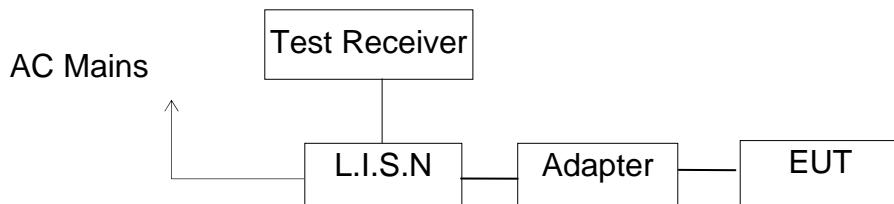
4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	Compliant
Section 15.203	Antenna Requirement	Compliant

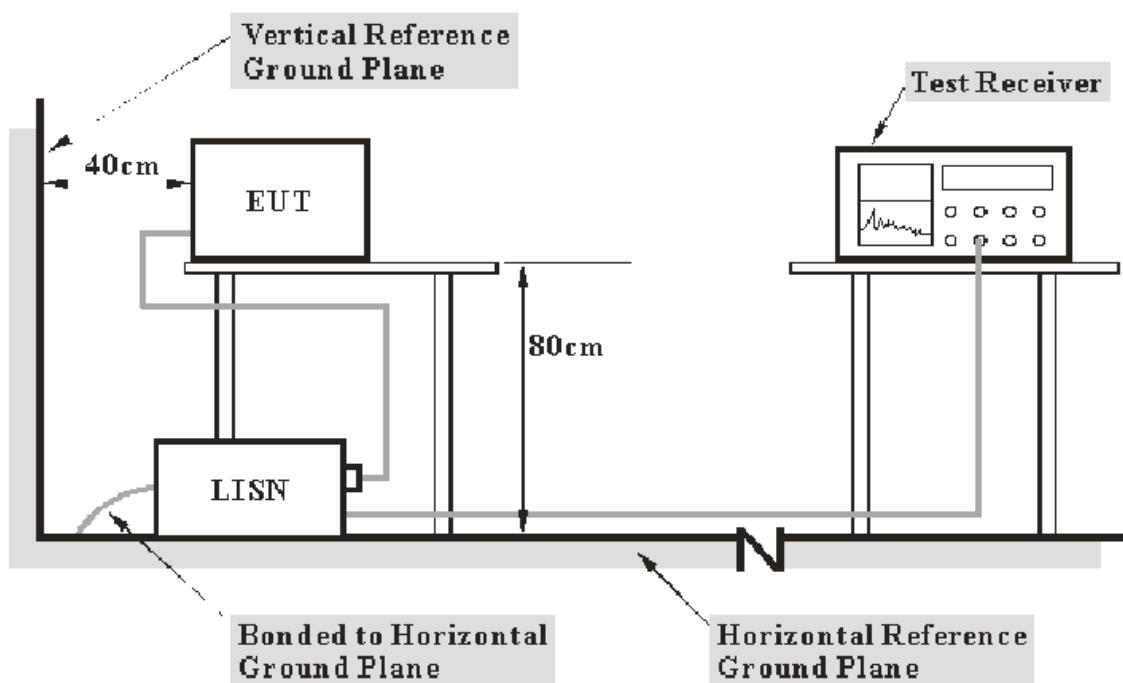
5. POWER LINE CONDUCTED MEASUREMENT

5.1. Block Diagram of Test

5.1.1. Block diagram of connection between the EUT and simulators



5.1.2. Test System Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMIN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

5.2.Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit 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

NOTE1: The lower limit shall apply at the transition frequencies.
NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

5.3.Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in test mode and measure it.

5.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

5.6.Data Sample

Frequency (MHz)	Transducer value (dB)	QuasiPeak Level (dB μ V)	Average Level (dB μ V)	QuasiPeak Limit (dB μ V)	Average Limit (dB μ V)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
0.1500	10.8	41.4	36.1	66.0	56.0	-24.6	-19.9	Pass

Frequency(MHz) = Emission frequency in MHz

Transducer value(dB) = Insertion loss of LISN + Cable Loss

Level(dB μ V) = Quasi-peak Reading/Average Reading + Transducer value

Limit (dB μ V) = Limit stated in standard

Margin = Limit (dB μ V) - Level (dB μ V)

Calculation Formula:

Margin = Limit (dB μ V) - Level (dB μ V)

5.7.Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Test mode : Charging(AC 120V/60Hz)

EUT mode : CB-BE215

MEASUREMENT RESULT: "2116-4_fin"

2017-10-30 11:03

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.150000	41.40	10.8	66	24.6	QP	L1	GND
0.440000	31.40	11.0	57	25.7	QP	L1	GND
1.258000	32.70	11.2	56	23.3	QP	L1	GND
2.135000	28.50	11.3	56	27.5	QP	L1	GND
5.440000	24.60	11.5	60	35.4	QP	L1	GND
19.450000	26.00	11.7	60	34.0	QP	L1	GND

MEASUREMENT RESULT: "2116-4_fin2"

2017-10-30 11:03

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.150000	36.10	10.8	56	19.9	AV	L1	GND
0.776000	31.40	11.1	46	14.6	AV	L1	GND
1.146000	26.80	11.2	46	19.2	AV	L1	GND
2.145000	22.80	11.3	46	23.2	AV	L1	GND
5.155000	17.00	11.4	50	33.0	AV	L1	GND
19.220000	14.60	11.7	50	35.4	AV	L1	GND

MEASUREMENT RESULT: "2116-3_fin"

2017-10-30 11:01

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.150000	41.90	10.8	66	24.1	QP	N	GND
0.874000	41.20	11.1	56	14.8	QP	N	GND
1.090000	41.90	11.1	56	14.1	QP	N	GND
2.230000	37.50	11.3	56	18.5	QP	N	GND
5.755000	26.70	11.5	60	33.3	QP	N	GND
18.060000	24.10	11.7	60	35.9	QP	N	GND

MEASUREMENT RESULT: "2116-3_fin2"

2017-10-30 11:01

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.150000	36.20	10.8	56	19.8	AV	N	GND
0.776000	31.50	11.1	46	14.5	AV	N	GND
1.800000	25.50	11.2	46	20.5	AV	N	GND
2.260000	22.90	11.3	46	23.1	AV	N	GND
5.985000	20.10	11.5	50	29.9	AV	N	GND
13.295000	14.40	11.6	50	35.6	AV	N	GND

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

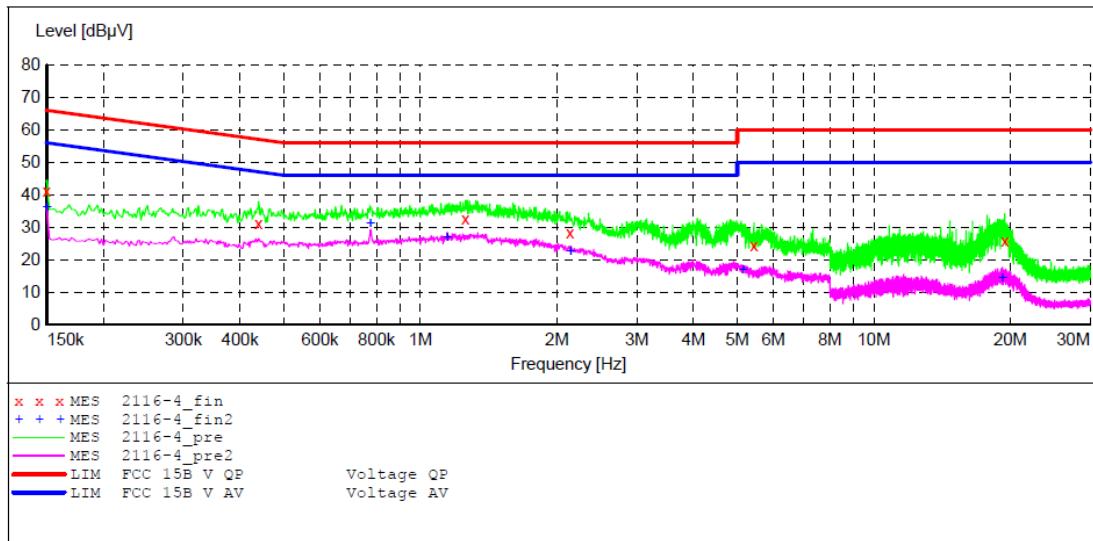
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15 B

EUT: Bluetooth Stereo Earbuds with Mic M/N:CB-BE215
 Manufacturer: CLEVER BRIGHT
 Operating Condition: Charging
 Test Site: 1#Shielding Room
 Operator: Frank
 Test Specification: L 120V/60Hz
 Comment: Report NO.:ATE20172116
 Start of Test: 2017-10-30 / 11:01:45

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "2116-4_fin"**

2017-10-30 11:03

Frequency MHz	Level dB _μ V	Transd dB	Limit dB _μ V	Margin dB	Detector	Line	PE
0.150000	41.40	10.8	66	24.6	QP	L1	GND
0.440000	31.40	11.0	57	25.7	QP	L1	GND
1.258000	32.70	11.2	56	23.3	QP	L1	GND
2.135000	28.50	11.3	56	27.5	QP	L1	GND
5.440000	24.60	11.5	60	35.4	QP	L1	GND
19.450000	26.00	11.7	60	34.0	QP	L1	GND

MEASUREMENT RESULT: "2116-4_fin2"

2017-10-30 11:03

Frequency MHz	Level dB _μ V	Transd dB	Limit dB _μ V	Margin dB	Detector	Line	PE
0.150000	36.10	10.8	56	19.9	AV	L1	GND
0.776000	31.40	11.1	46	14.6	AV	L1	GND
1.146000	26.80	11.2	46	19.2	AV	L1	GND
2.145000	22.80	11.3	46	23.2	AV	L1	GND
5.155000	17.00	11.4	50	33.0	AV	L1	GND
19.220000	14.60	11.7	50	35.4	AV	L1	GND

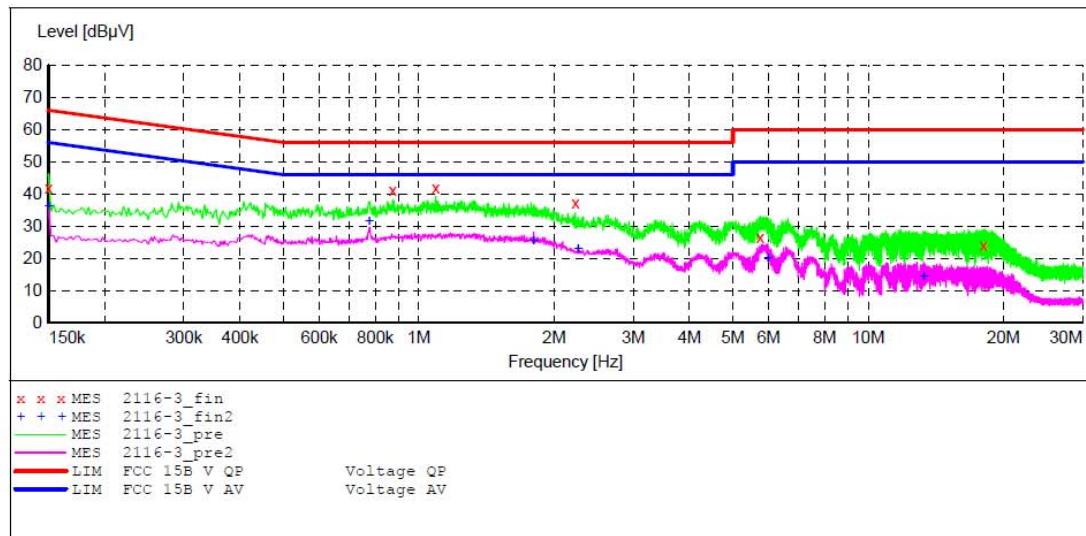
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15 B

EUT: Bluetooth Stereo Earbuds with Mic M/N:CB-BE215
 Manufacturer: CLEVER BRIGHT
 Operating Condition: Charging
 Test Site: 1#Shielding Room
 Operator: Frank
 Test Specification: N 120V/60Hz
 Comment: Report NO.:ATE20172116
 Start of Test: 2017-10-30 / 10:57:49

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw. NSLK8126 2008
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz Average

**MEASUREMENT RESULT: "2116-3_fin"**

2017-10-30 11:01

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.150000	41.90	10.8	66	24.1	QP	N	GND
0.874000	41.20	11.1	56	14.8	QP	N	GND
1.090000	41.90	11.1	56	14.1	QP	N	GND
2.230000	37.50	11.3	56	18.5	QP	N	GND
5.755000	26.70	11.5	60	33.3	QP	N	GND
18.060000	24.10	11.7	60	35.9	QP	N	GND

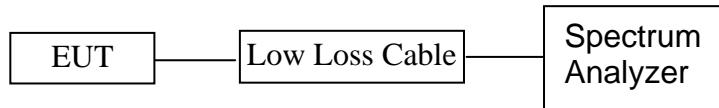
MEASUREMENT RESULT: "2116-3_fin2"

2017-10-30 11:01

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.150000	36.20	10.8	56	19.8	AV	N	GND
0.776000	31.50	11.1	46	14.5	AV	N	GND
1.800000	25.50	11.2	46	20.5	AV	N	GND
2.260000	22.90	11.3	46	23.1	AV	N	GND
5.985000	20.10	11.5	50	29.9	AV	N	GND
13.295000	14.40	11.6	50	35.6	AV	N	GND

6. 6DB BANDWIDTH MEASUREMENT

6.1. Block Diagram of Test Setup



(EUT: Bluetooth Stereo Earbuds with Mic)

6.2. The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.3. EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

6.5. Test Procedure

6.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

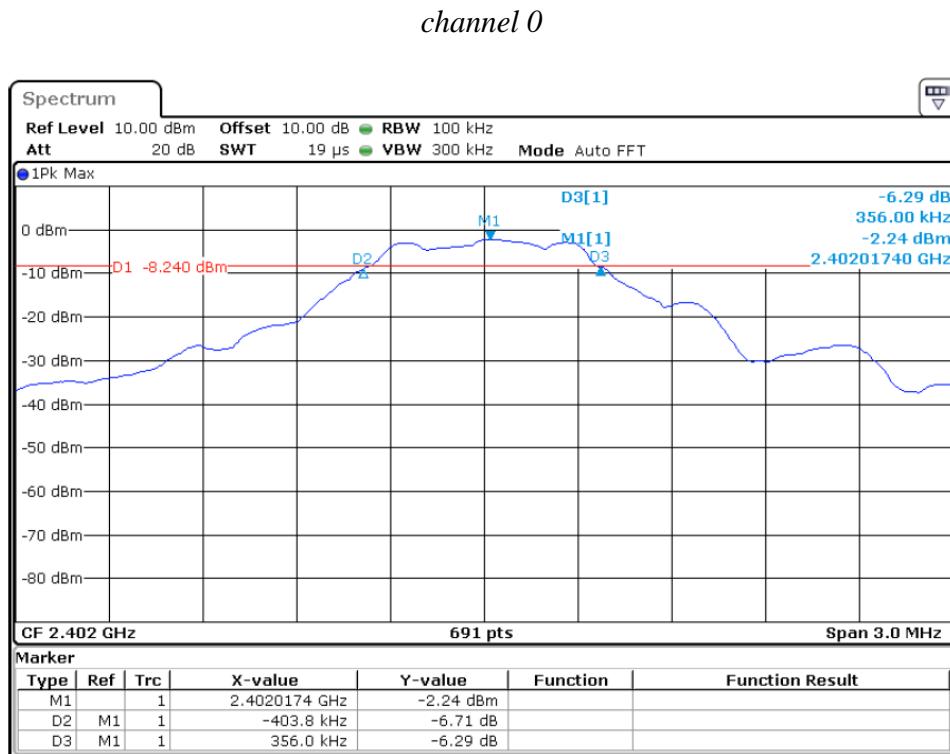
6.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

6.5.3. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

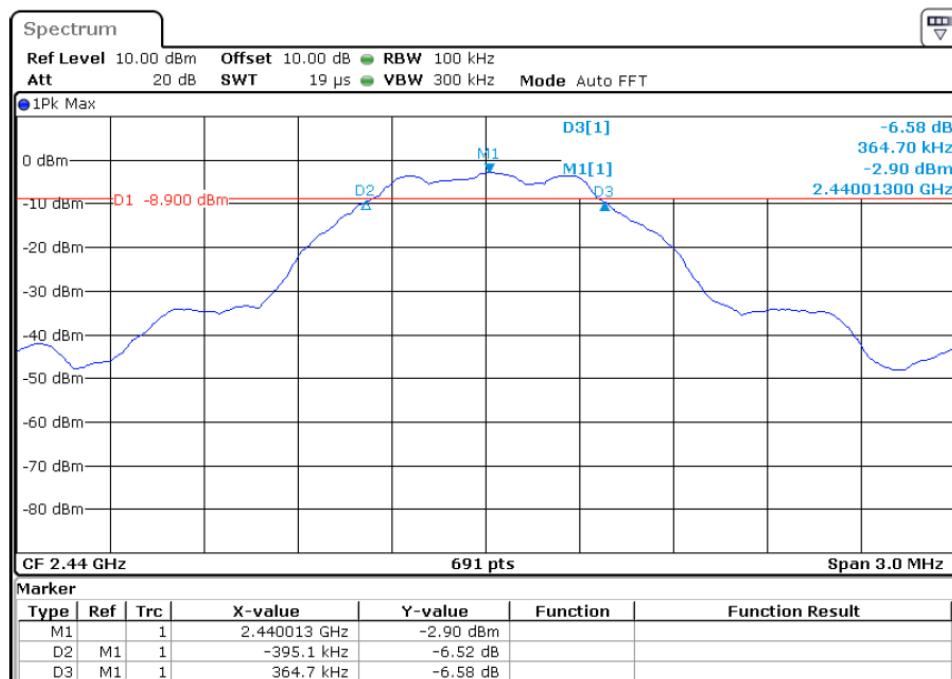
6.6. Test Result

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit(MHz)	PASS/FAIL
0	2402	0.760	0.5	PASS
19	2440	0.760	0.5	PASS
39	2480	0.747	0.5	PASS

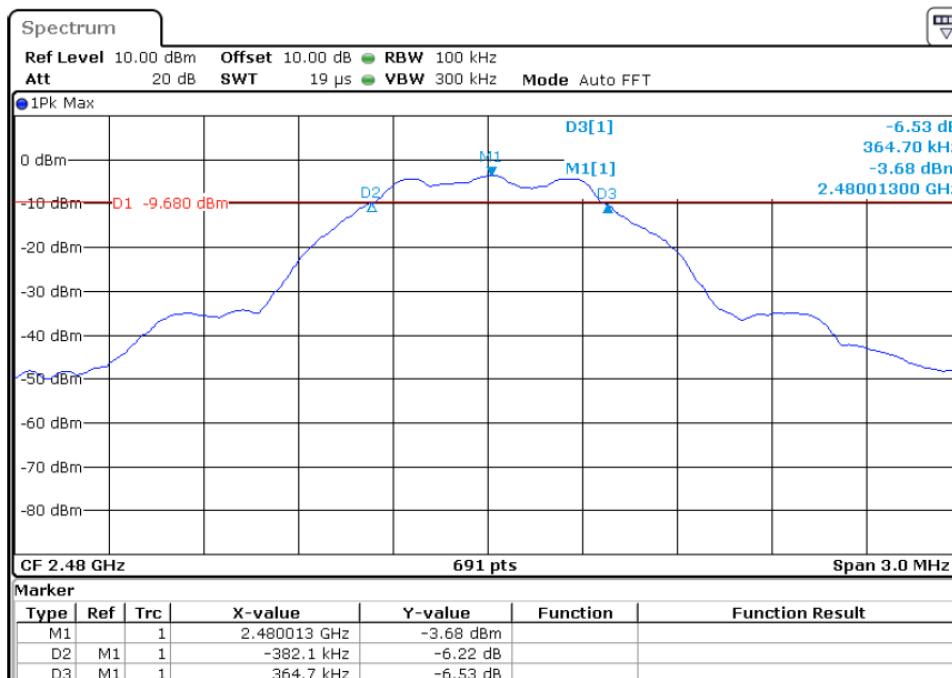
The spectrum analyzer plots are attached as below.



channel 19



channel 39



7. MAXIMUM PEAK OUTPUT POWER

7.1. Block Diagram of Test Setup



(EUT: Bluetooth Stereo Earbuds with Mic)

7.2. The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

7.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

7.5. Test Procedure

7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

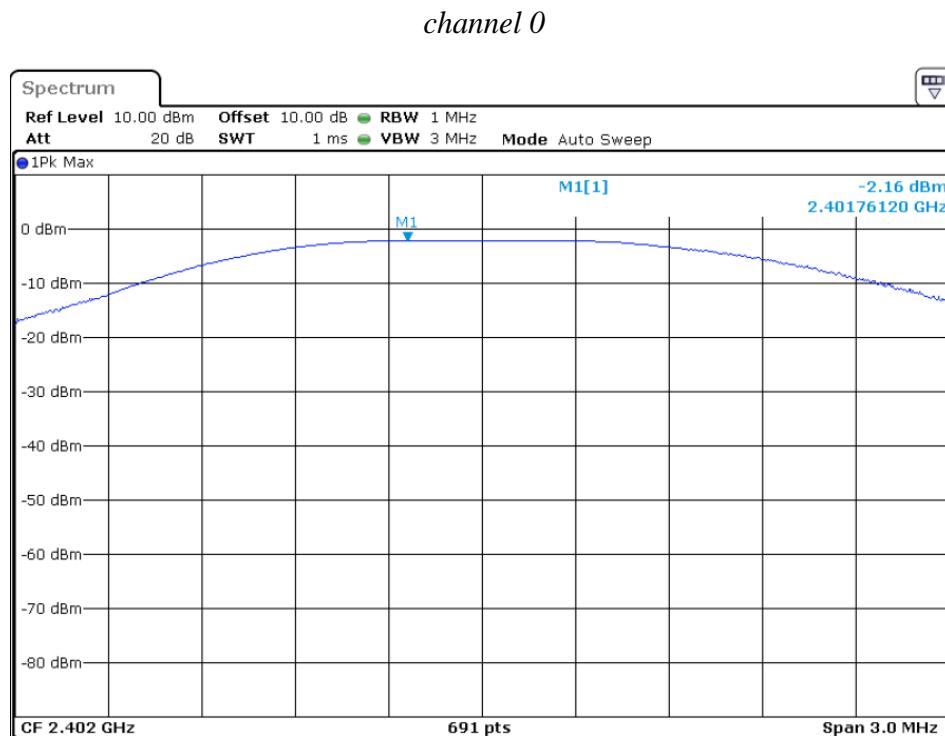
7.5.2. Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz.

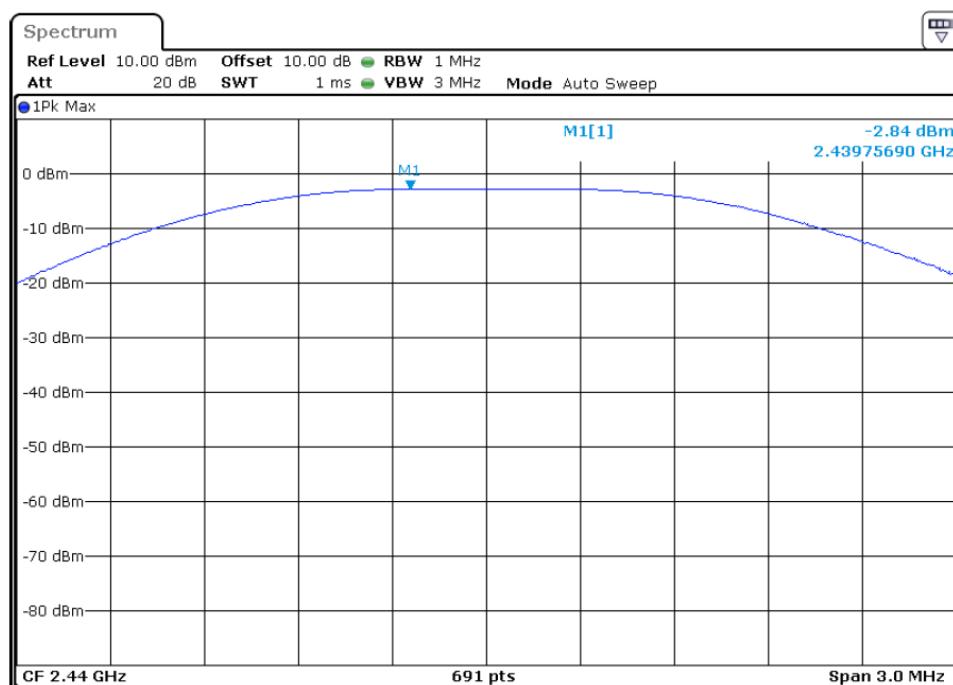
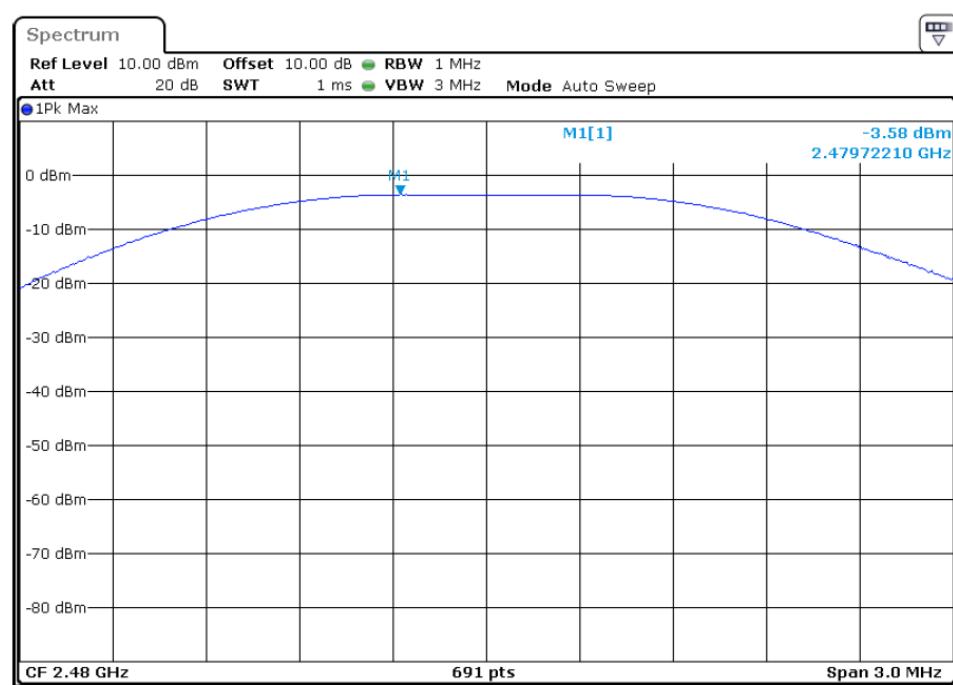
7.5.3. Measurement the maximum peak output power.

7.6. Test Result

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass / Fail
0	2402	-2.16	30	PASS
19	2440	-2.84	30	PASS
39	2480	-3.58	30	PASS

The spectrum analyzer plots are attached as below.



channel 19*channel 39*

8. POWER SPECTRAL DENSITY MEASUREMENT

8.1. Block Diagram of Test Setup



(EUT: Bluetooth Stereo Earbuds with Mic)

8.2. The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

8.5. Test Procedure

8.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

8.5.2. Measurement Procedure PKPSD:

8.5.3. This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leqslant \text{RBW} \leqslant 100 \text{ kHz}$.
4. Set the VBW $\geqslant 3 \times \text{RBW}$.
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.

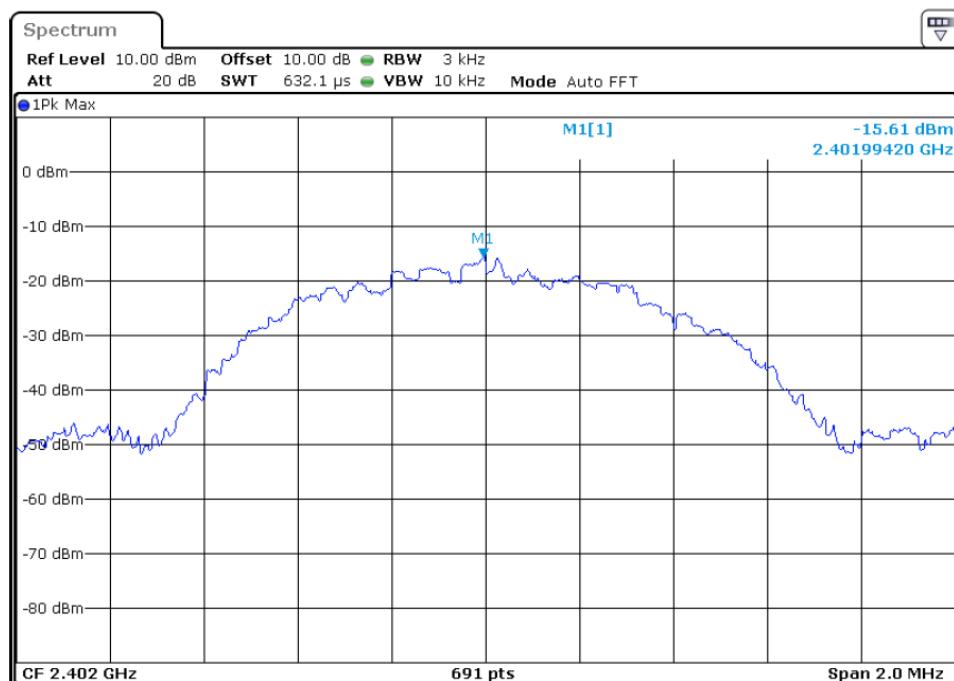
8.5.4. Measurement the maximum power spectral density.

8.6. Test Result

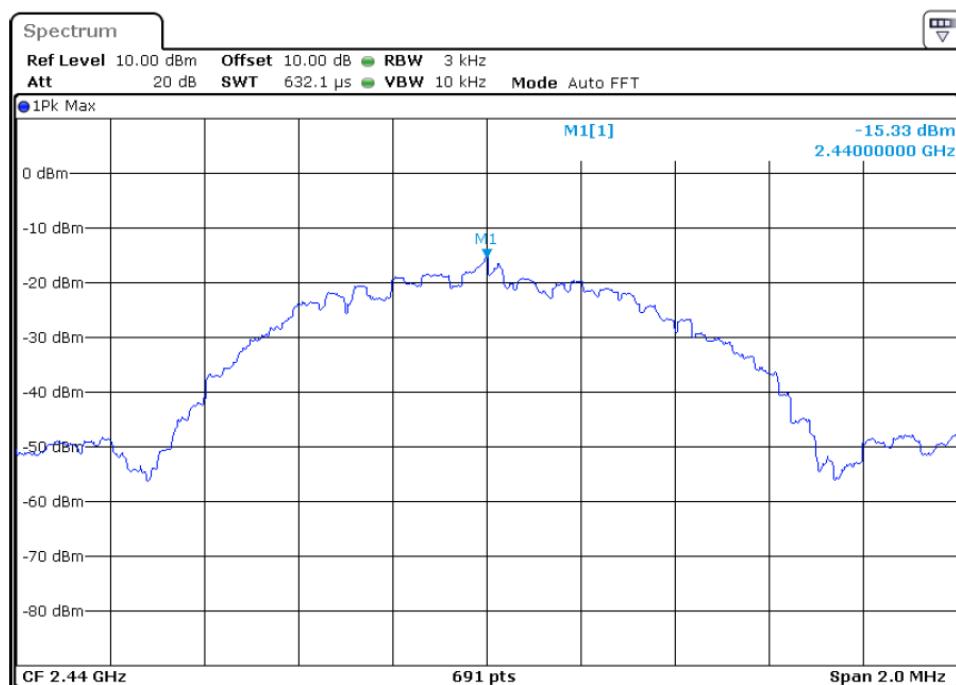
CHANNEL NUMBER	FREQUENCY (MHz)	PSD (dBm/3KHz)	LIMIT (dBm/3KHz)	PASS/FAIL
0	2402	-15.61	8	PASS
19	2440	-15.33	8	PASS
39	2480	-14.19	8	PASS

The spectrum analyzer plots are attached as below.

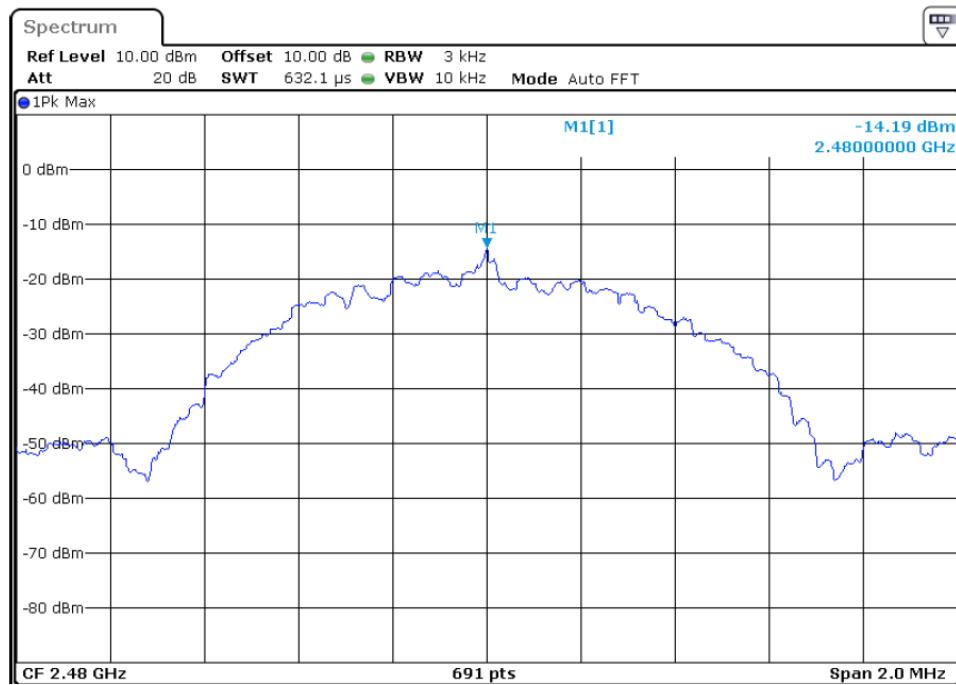
channel 0



channel 19



channel 39



9. BAND EDGE COMPLIANCE TEST

9.1. Block Diagram of Test Setup



(EUT: Bluetooth Stereo Earbuds with Mic)

9.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

9.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.4. Operating Condition of EUT

9.4.1. Setup the EUT and simulator as shown as Section 9.1.

9.4.2. Turn on the power of all equipment.

9.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

9.5.Test Procedure

Conducted Band Edge:

9.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

9.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

9.5.3. Radiate Band Edge:

9.5.4.The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.

9.5.5.The turntable was rotated for 360 degrees to determine the position of maximum emission level.

9.5.6.EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

9.5.7.Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

9.5.8.RBW=100kHz, VBW=300kHz

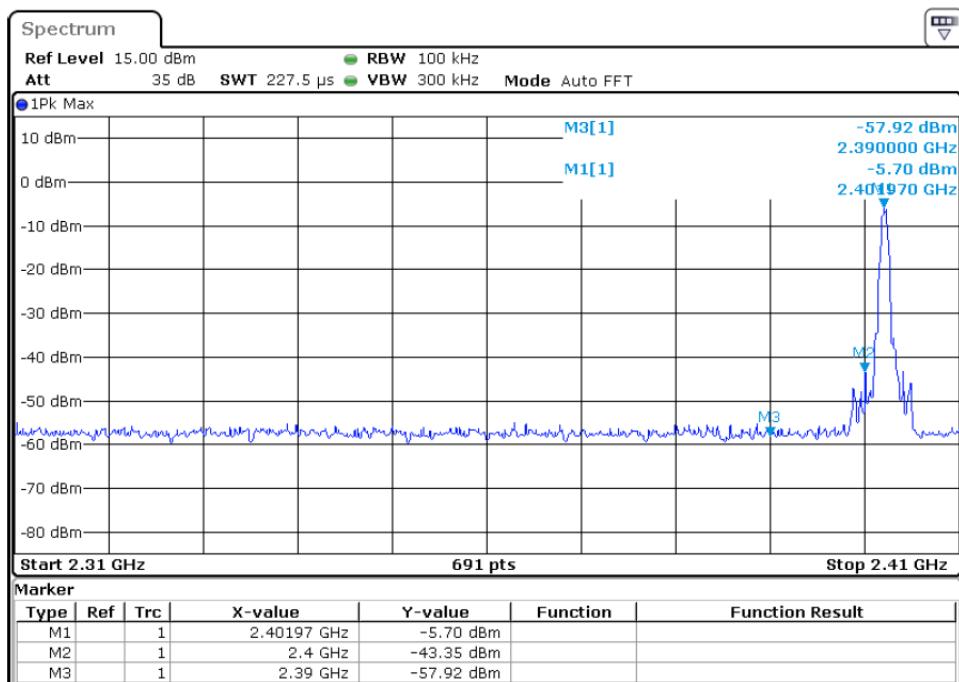
9.5.9.The band edges was measured and recorded.

9.6.Test Result

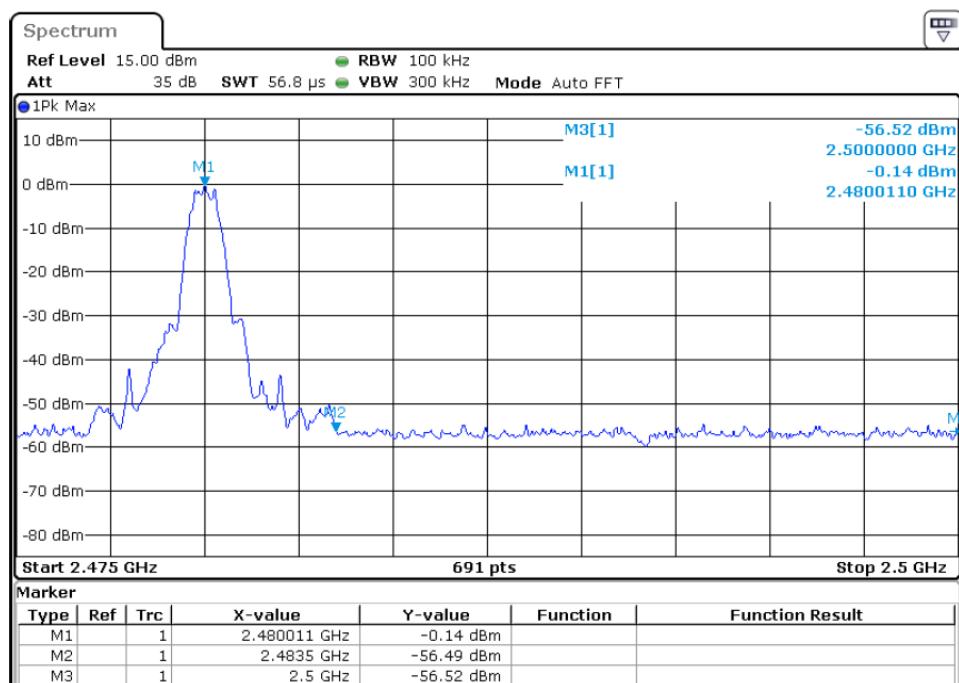
Pass

Channel	Frequency	Delta peak to band emission	Limit(dBc)
0	2.4GHz	37.65	20
39	2.4835GHz	56.35	20

channel 0



channel 39



Radiated Band Edge Result

Date of Test:	November 4, 2017	Temperature:	25°C
EUT:	Bluetooth Stereo Earbuds with Mic	Humidity:	50%
Model No.:	CB-BE215	Power Supply:	AC 120V/60Hz
Test Mode:	TX (2402MHz) GFSK	Test Engineer:	Frank

Frequency (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2390.000	29.16	38.38	-3.96	25.20	34.42	54.00	74.00	-28.80	-39.58	Vertical
2400.000	35.78	44.15	-3.91	31.87	40.24	54.00	74.00	-22.13	-33.76	Vertical
2390.000	30.12	38.38	-3.96	26.16	34.42	54.00	74.00	-27.84	-39.58	Horizontal
2400.000	34.25	44.15	-3.91	30.34	40.24	54.00	74.00	-23.66	-33.76	Horizontal

Date of Test:	November 4, 2017	Temperature:	25°C
EUT:	Bluetooth Stereo Earbuds with Mic	Humidity:	50%
Model No.:	CB-BE215	Power Supply:	AC 120V/60Hz
Test Mode:	TX (2480MHz) GFSK	Test Engineer:	Frank

Frequency (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	32.15	40.41	-3.50	28.65	36.91	54.00	74.00	-25.35	-37.09	Vertical
2500.000	35.15	42.12	-3.42	31.73	38.70	54.00	74.00	-22.27	-35.30	Vertical
2483.500	31.12	40.41	-3.50	27.62	36.91	54.00	74.00	-26.38	-37.09	Horizontal
2500.000	33.45	42.12	-3.42	30.03	38.70	54.00	74.00	-23.97	-35.30	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

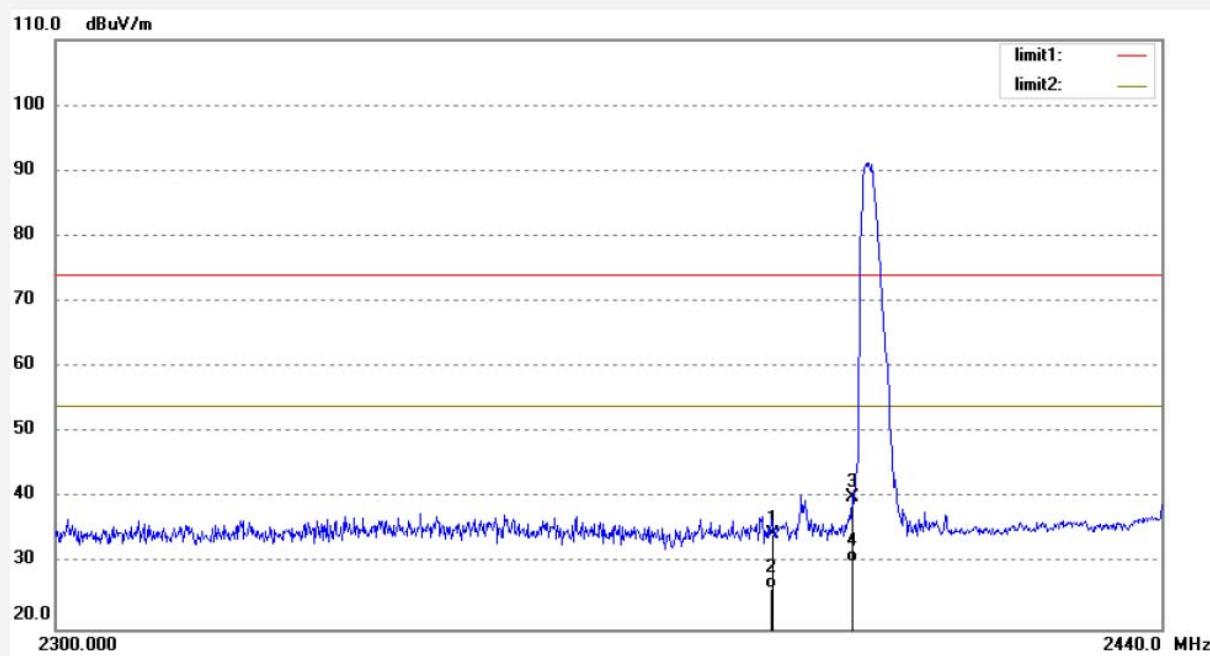


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Site: 1# Chamber
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Fax:+86-0755-26503396

Job No.: frank2017 #1399	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 3.7V
Test item: Radiation Test	Date: 17/11/02/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 14/34/44
EUT: Bluetooth Stereo Earbuds with Mic	Engineer Signature: Frank
Mode: TX2402MHz	Distance: 3m
Model: CB-BE215	
Manufacturer: CLEVER BRIGHT	
Note: Report NO.:ATE20172116	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	38.38	-3.96	34.42	74.00	-39.58	peak	200	124	
2	2390.000	30.12	-3.96	26.16	54.00	-27.84	AVG	200	124	
3	2400.000	44.15	-3.91	40.24	74.00	-33.76	peak	200	324	
4	2400.000	34.25	-3.91	30.34	54.00	-23.66	AVG	200	324	

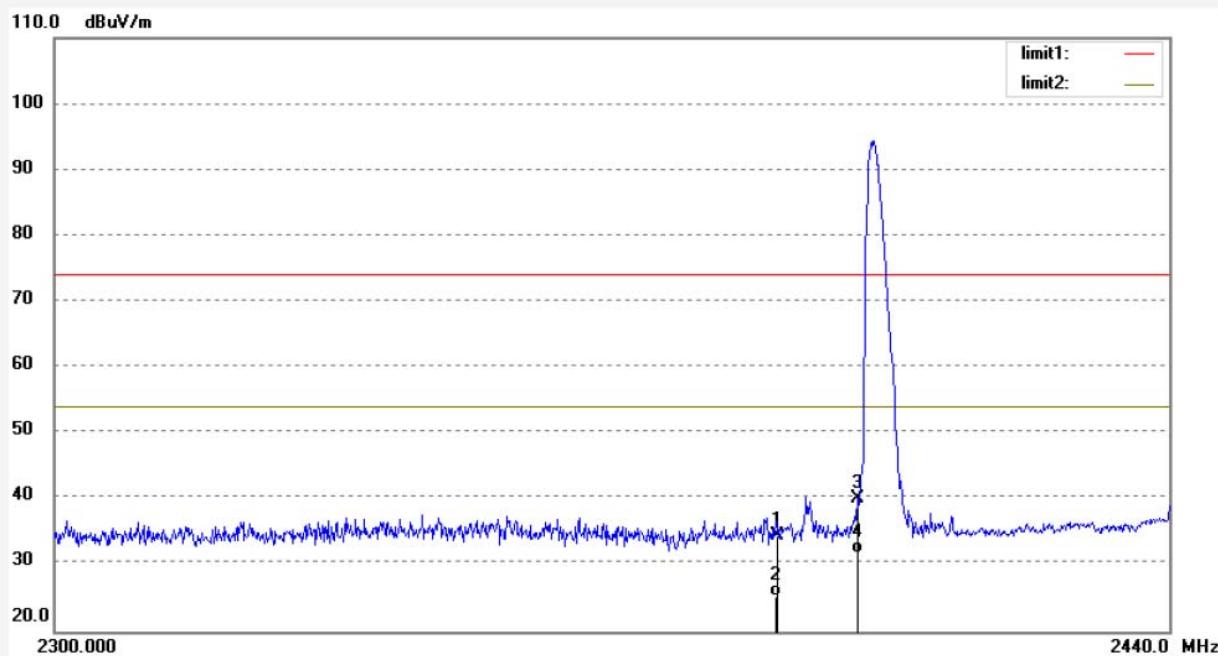


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Site: 1# Chamber
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Fax:+86-0755-26503396

Job No.:	frank2017 #1400	Polarization:	Vertical
Standard:	FCC PK	Power Source:	DC 3.7V
Test item:	Radiation Test	Date:	17/11/02/
Temp.(C)/Hum.(%)	25 C / 55 %	Time:	14/34/44
EUT:	Bluetooth Stereo Earbuds with Mic	Engineer Signature:	Frank
Mode:	TX2402MHz	Distance:	3m
Model:	CB-BE215		
Manufacturer:	CLEVER BRIGHT		
Note:	Report NO.:ATE20172116		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	38.38	-3.96	34.42	74.00	-39.58	peak	200	223	
2	2390.000	29.16	-3.96	25.20	54.00	-28.80	AVG	200	223	
3	2400.000	44.15	-3.91	40.24	74.00	-33.76	peak	200	327	
4	2400.000	35.78	-3.91	31.87	54.00	-22.13	AVG	200	327	



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Site: 1# Chamber
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Fax:+86-0755-26503396

Job No.: frank2017 #1401

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 17/11/02/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 14/41/02

EUT: Bluetooth Stereo Earbuds with Mic

Engineer Signature: Frank

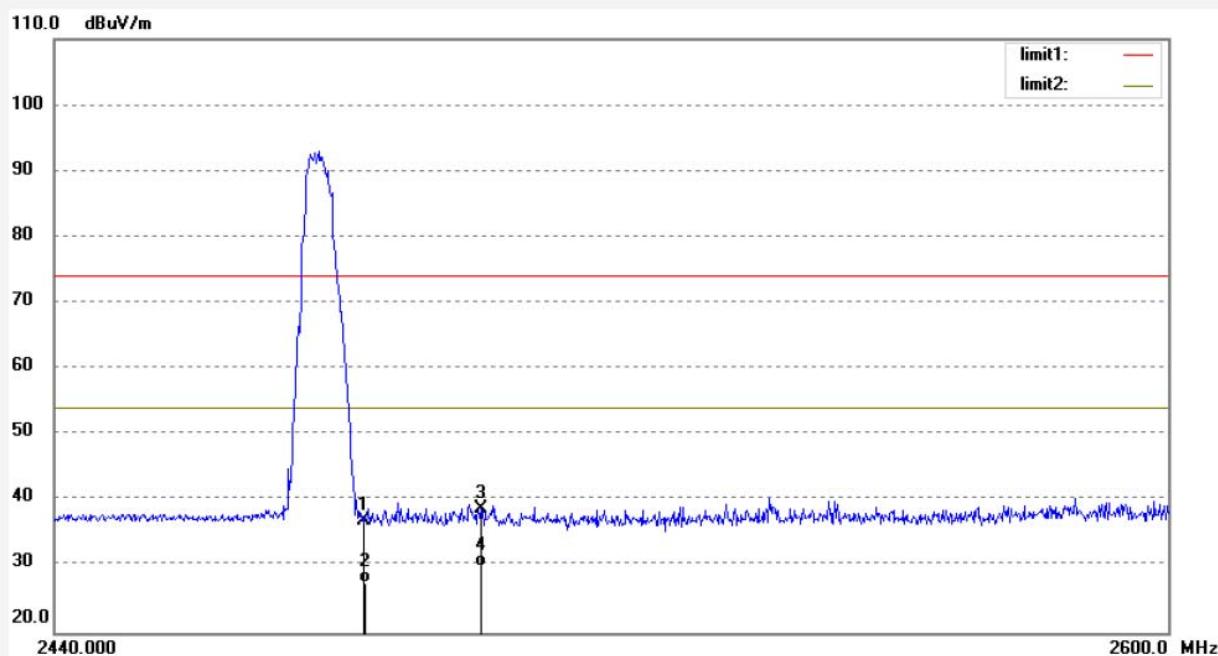
Mode: TX2480MHz

Distance: 3m

Model: CB-BE215

Manufacturer: CLEVER BRIGHT

Note: Report NO.:ATE20172116



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	40.41	-3.50	36.91	74.00	-37.09	peak	250	323	
2	2483.500	31.12	-3.50	27.62	54.00	-26.38	AVG	250	323	
3	2500.000	42.12	-3.42	38.70	74.00	-35.30	peak	250	247	
4	2500.000	33.45	-3.42	30.03	54.00	-23.97	AVG	250	247	



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Job No.: frank2017 #1402

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 17/11/02/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 14/41/02

EUT: Bluetooth Stereo Earbuds with Mic

Engineer Signature: Frank

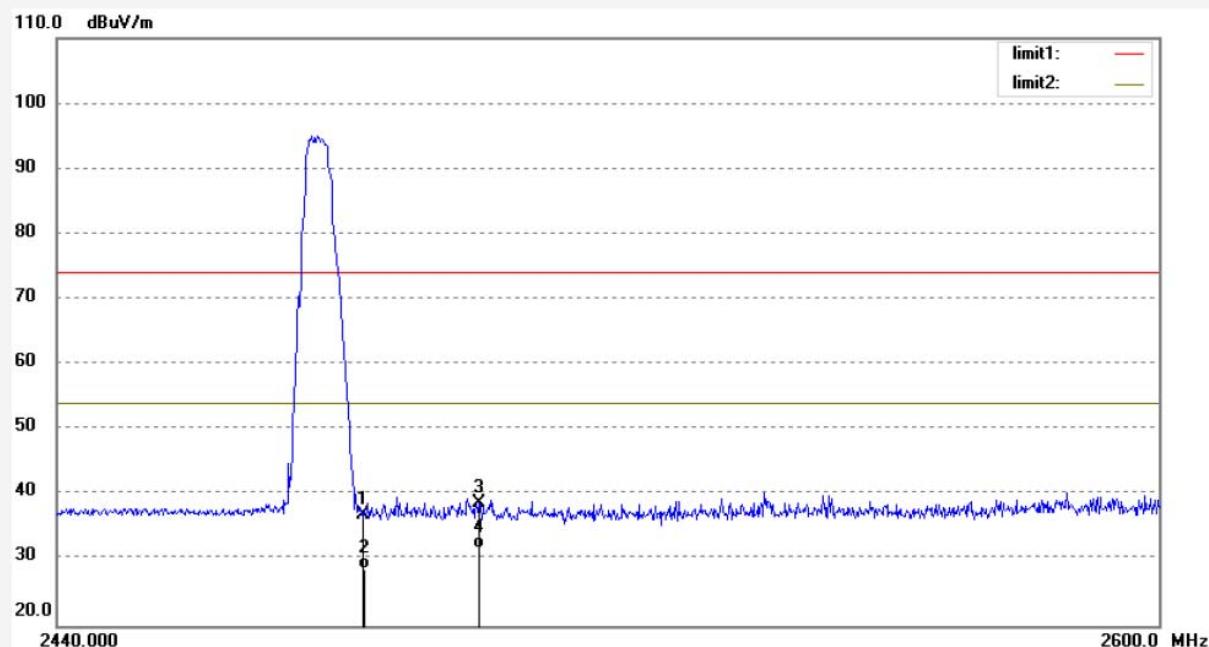
Mode: TX2480MHz

Distance: 3m

Model: CB-BE215

Manufacturer: CLEVER BRIGHT

Note: Report NO.:ATE20172116



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	40.41	-3.50	36.91	74.00	-37.09	peak	300	129	
2	2483.500	32.15	-3.50	28.65	54.00	-25.35	AVG	300	129	
3	2500.000	42.12	-3.42	38.70	74.00	-35.30	peak	300	328	
4	2500.000	35.15	-3.42	31.73	54.00	-22.27	AVG	300	328	

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

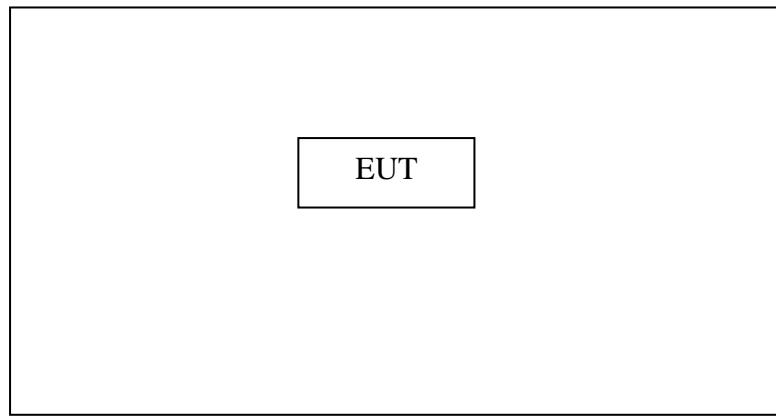
Result = Reading + Corrected Factor

3. Display the measurement of peak values.

10.RADIATED SPURIOUS EMISSION TEST

10.1.Block Diagram of Test Setup

10.1.1.Block diagram of connection between the EUT and peripherals

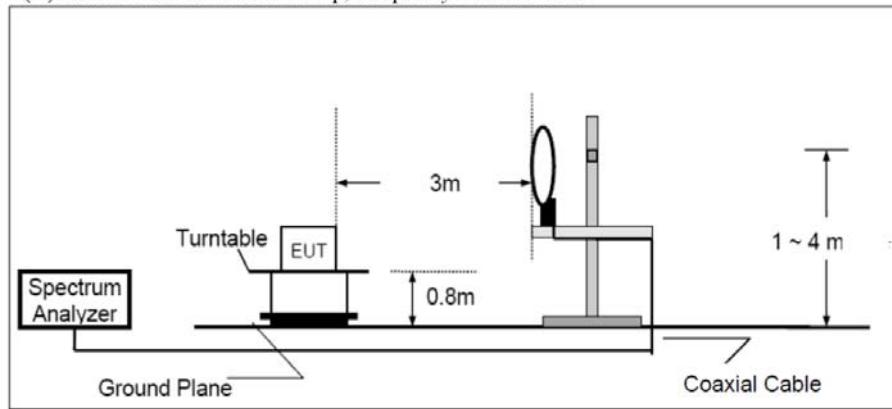


Setup: Transmitting mode

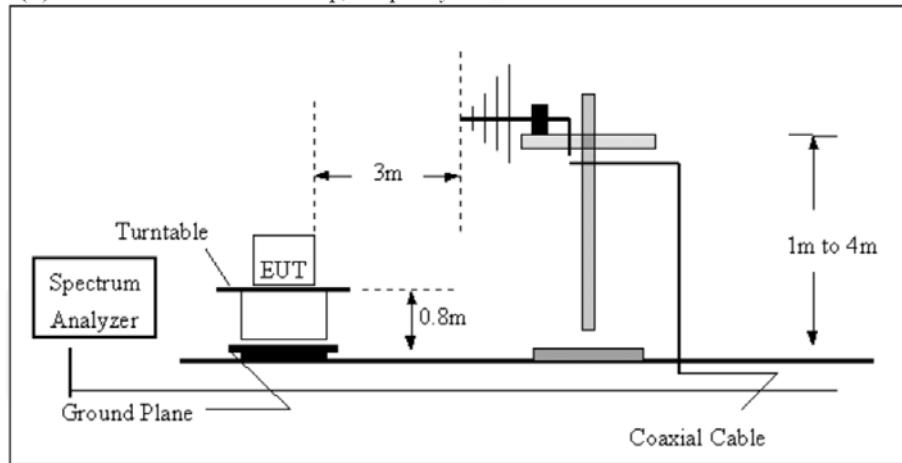
(EUT: Bluetooth Stereo Earbuds with Mic)

10.1.2.Semi-Anechoic Chamber Test Setup Diagram

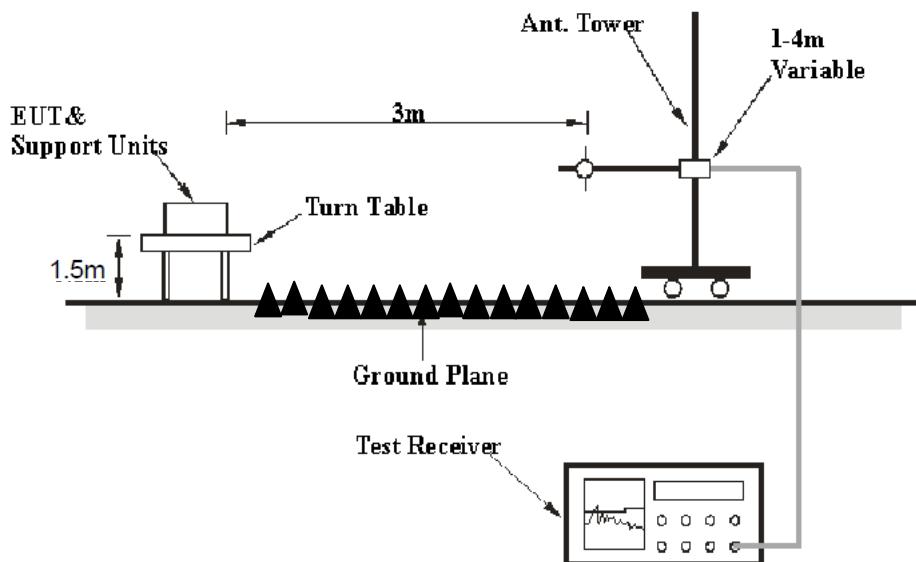
(A)Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency 30-1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1GHz



10.2.The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

10.3.Restricted bands of operation

10.3.1.FCC Part 15.205 Restricted bands of operation

- (a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

10.4.Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.5.Operating Condition of EUT

10.5.1.Setup the EUT and simulator as shown as Section 10.1.

10.5.2.Turn on the power of all equipment.

10.5.3.Let the EUT work in TX modes measure it. The transmit frequency are

2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

10.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground(Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 9 kHz in below 30MHz. and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9 kHz to 25GHz is checked.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

10.7.Data Sample

Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
35.3866	35.57	-16.12	19.45	40.00	-20.55	QP

Frequency(MHz) = Emission frequency in MHz

Reading(dB μ V) = Uncorrected Analyzer/Receiver reading

Factor (dB/m) = Antenna factor + Cable Loss – Amplifier gain

Result(dB μ V/m) = Reading(dB μ V) + Factor(dB/m)

Limit (dB μ V/m) = Limit stated in standard

Margin (dB) = Result(dB μ V/m) - Limit (dB μ V/m)

QP = Quasi-peak Reading

Calculation Formula:

Margin(dB) = Result (dB μ V/m)–Limit(dB μ V/m)

Result(dB μ V/m)= Reading(dB μ V)+ Factor(dB/m)

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

10.8.The Field Strength of Radiation Emission Measurement Results

PASS.

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. *: Denotes restricted band of operation.

3. The radiation emissions from 18-25GHz are not reported, because the test values lower than the limits of 20dB.



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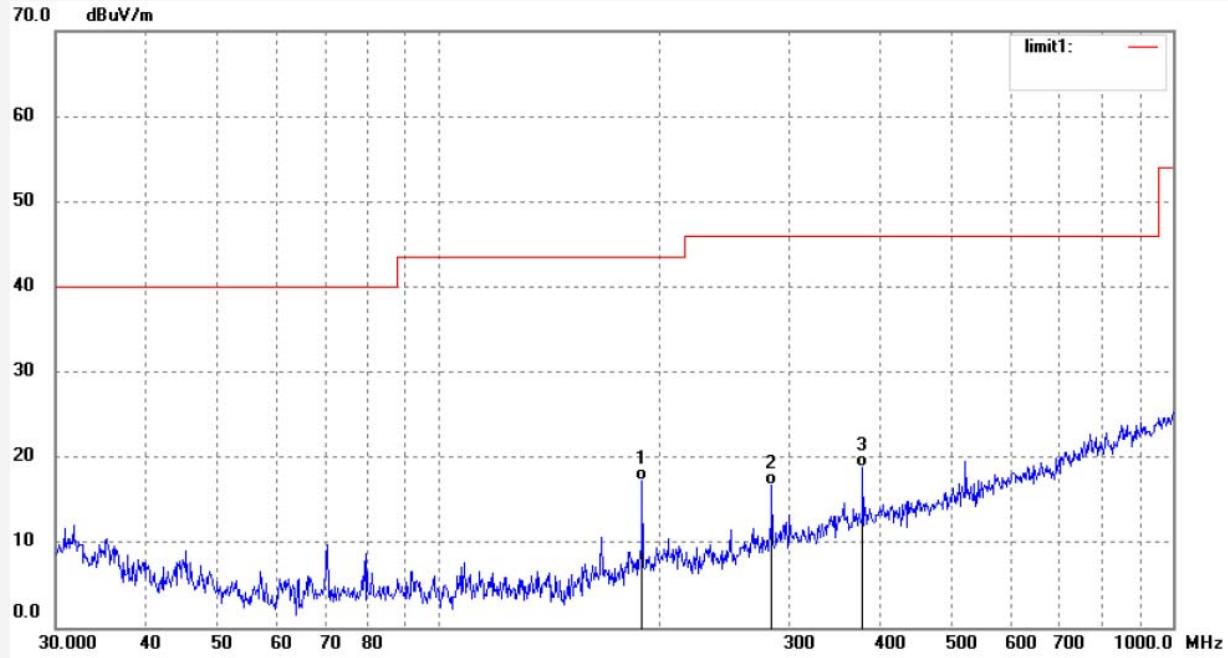
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

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Job No.: frank2017 #1381	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 17/11/02/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 14/00/03
EUT: Bluetooth Stereo Earbuds with Mic	Engineer Signature: Frank
Mode: TX2402MHz	Distance: 3m
Model: CB-BE215	
Manufacturer: CLEVER BRIGHT	
Note: Report NO.:ATE20172116	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	189.1074	36.80	-19.49	17.31	43.50	-26.19	QP	100	325	
2	284.2606	33.19	-16.40	16.79	46.00	-29.21	QP	100	245	
3	377.8480	32.06	-13.26	18.80	46.00	-27.20	QP	100	15	

Job No.: frank2017 #1382

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.7V

Test item: Radiation Test

Date: 17/11/02/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 14/00/31

EUT: Bluetooth Stereo Earbuds with Mic

Engineer Signature: Frank

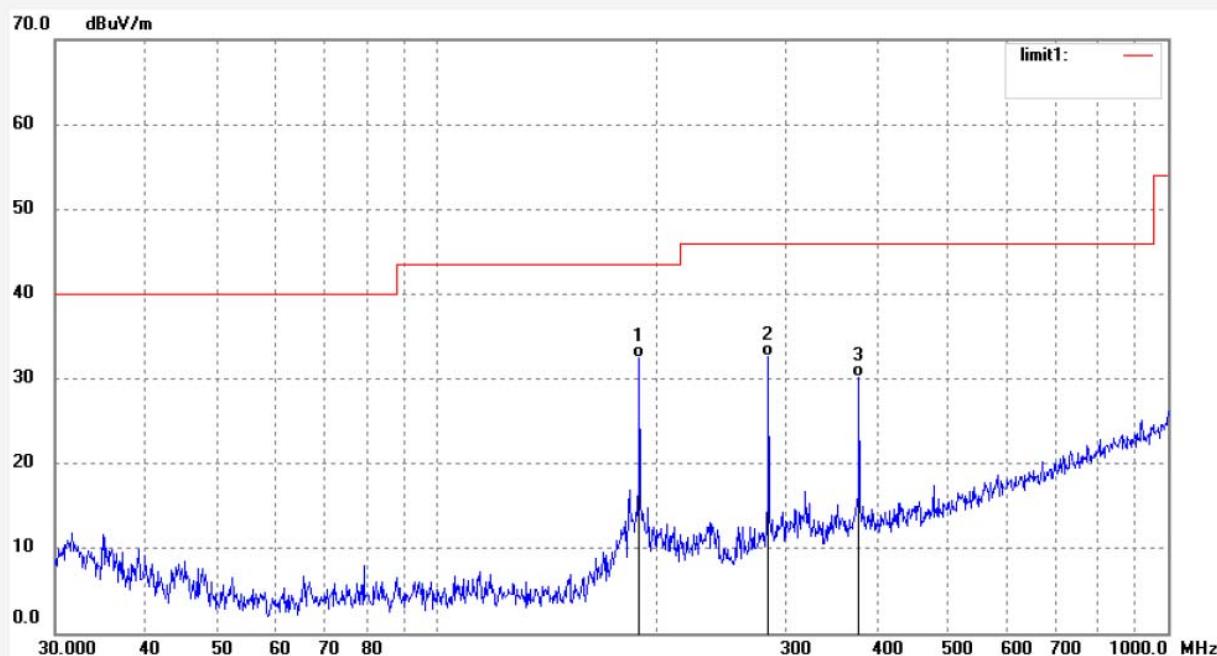
Mode: TX2402MHz

Distance: 3m

Model: CB-BE215

Manufacturer: CLEVER BRIGHT

Note: Report NO.:ATE20172116



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	189.1074	51.89	-19.49	32.40	43.50	-11.10	QP	200	315	
2	284.2606	48.97	-16.40	32.57	46.00	-13.43	QP	200	121	
3	377.8480	43.50	-13.26	30.24	46.00	-15.76	QP	200	132	



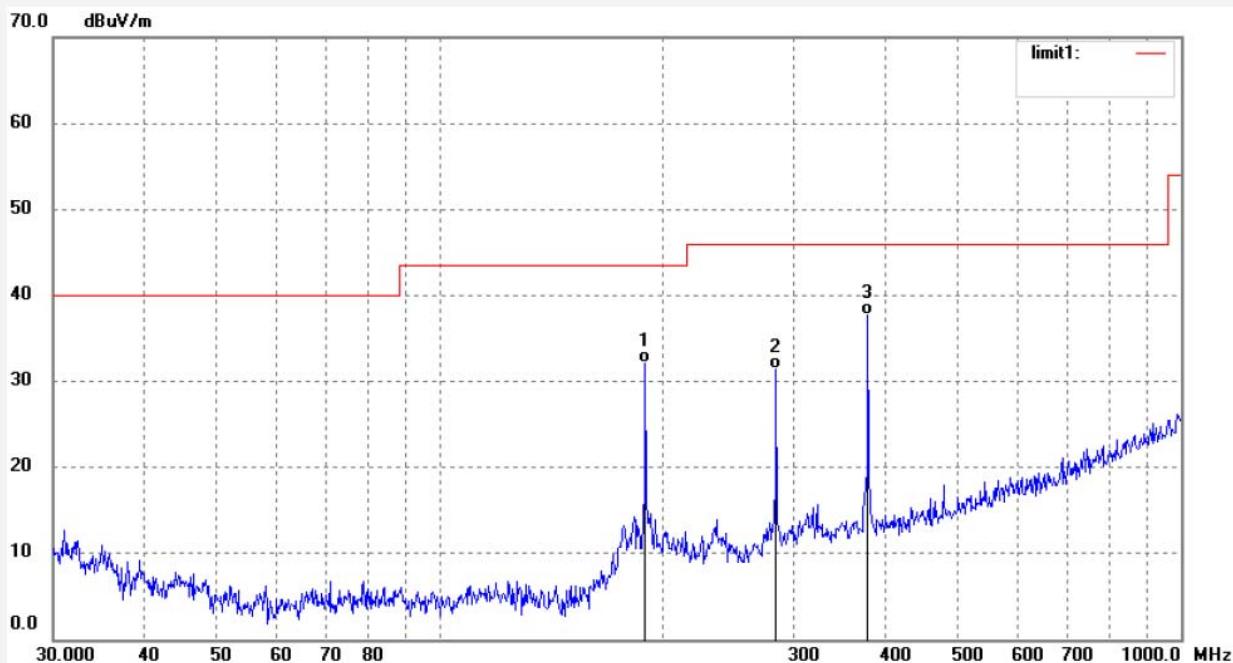
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Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: frank2017 #1383	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 17/11/02/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 14/03/46
EUT: Bluetooth Stereo Earbuds with Mic	Engineer Signature: Frank
Mode: TX2440MHz	Distance: 3m
Model: CB-BE215	
Manufacturer: CLEVER BRIGHT	

Note: Report NO.:ATE20172116



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	189.1075	51.62	-19.49	32.13	43.50	-11.37	QP	200	79	
2	284.2606	47.77	-16.40	31.37	46.00	-14.63	QP	200	328	
3	377.8480	50.93	-13.26	37.67	46.00	-8.33	QP	200	111	



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Job No.: frank2017 #1384

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.7V

Test item: Radiation Test

Date: 17/11/02/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 14/04/42

EUT: Bluetooth Stereo Earbuds with Mic

Engineer Signature: Frank

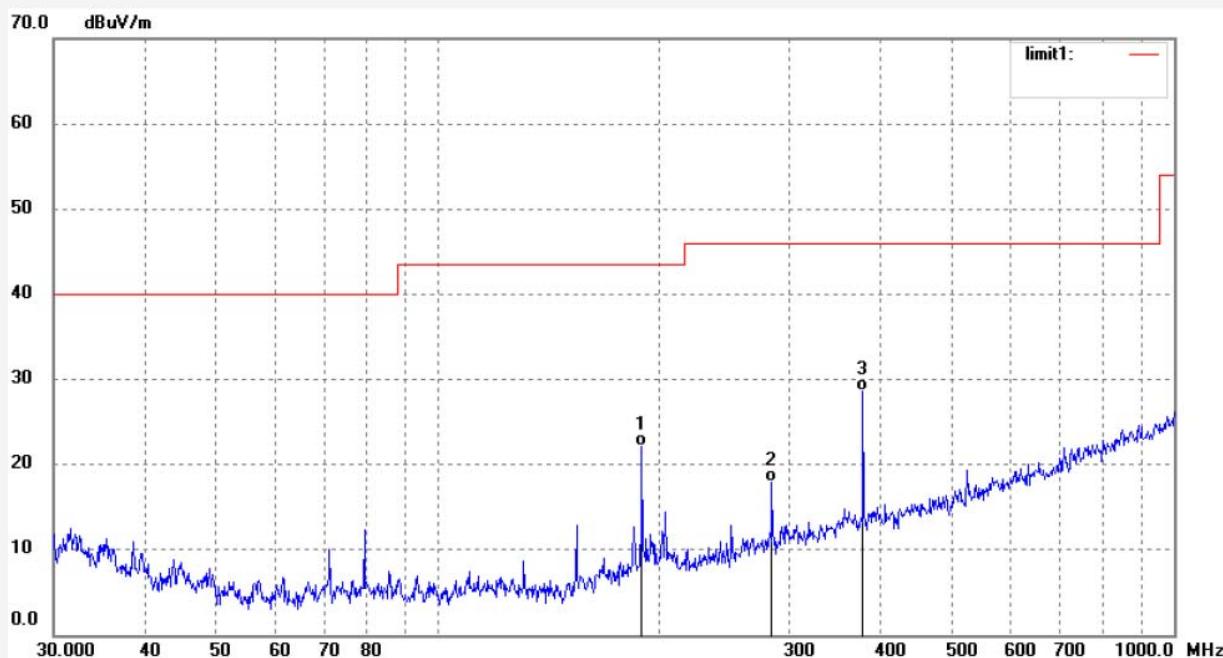
Mode: TX2440MHz

Distance: 3m

Model: CB-BE215

Manufacturer: CLEVER BRIGHT

Note: Report NO.:ATE20172116



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	189.1075	41.59	-19.49	22.10	43.50	-21.40	QP	100	145	
2	284.2606	34.35	-16.40	17.95	46.00	-28.05	QP	100	214	
3	377.8480	41.88	-13.26	28.62	46.00	-17.38	QP	100	126	

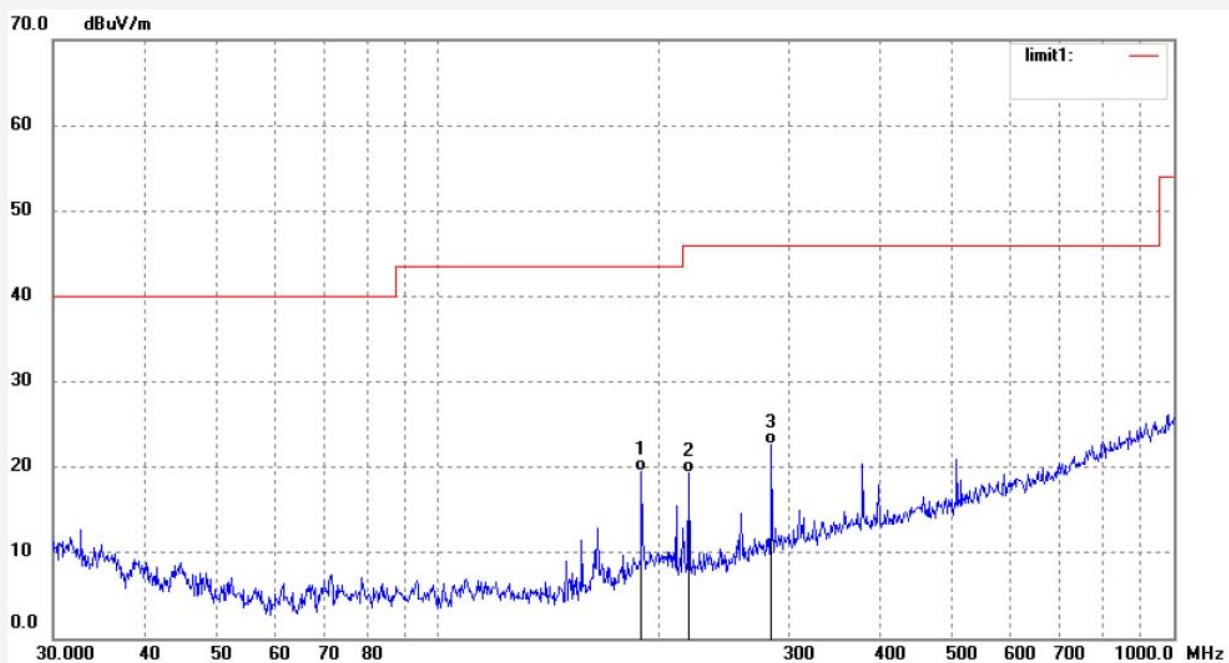


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Job No.: frank2017 #1385	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 17/11/02/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 14/05/30
EUT: Bluetooth Stereo Earbuds with Mic	Engineer Signature: Frank
Mode: TX2480MHz	Distance: 3m
Model: CB-BE215	
Manufacturer: CLEVER BRIGHT	
Note: Report NO.:ATE20172116	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	189.1075	39.02	-19.49	19.53	43.50	-23.97	QP	100	121	
2	219.1785	37.78	-18.40	19.38	46.00	-26.62	QP	100	111	
3	284.2606	39.01	-16.40	22.61	46.00	-23.39	QP	100	304	



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Job No.: frank2017 #1386

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.7V

Test item: Radiation Test

Date: 17/11/02/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 14/06/20

EUT: Bluetooth Stereo Earbuds with Mic

Engineer Signature: Frank

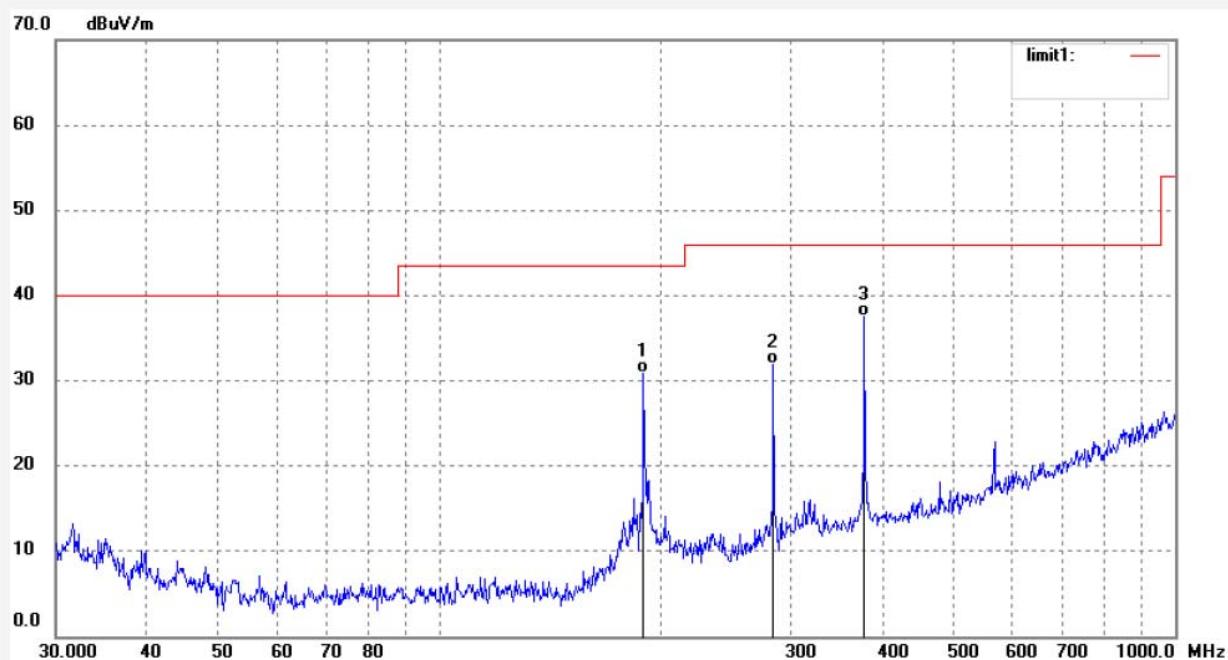
Mode: TX2480MHz

Distance: 3m

Model: CB-BE215

Manufacturer: CLEVER BRIGHT

Note: Report NO.:ATE20172116



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	189.1075	50.40	-19.49	30.91	43.50	-12.59	QP	200	234	
2	284.2606	48.27	-16.40	31.87	46.00	-14.13	QP	200	214	
3	377.8480	50.86	-13.26	37.60	46.00	-8.40	QP	200	123	

Job No.: frank2017 #1393

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 17/11/02/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 14/12/26

EUT: Bluetooth Stereo Earbuds with Mic

Engineer Signature: Frank

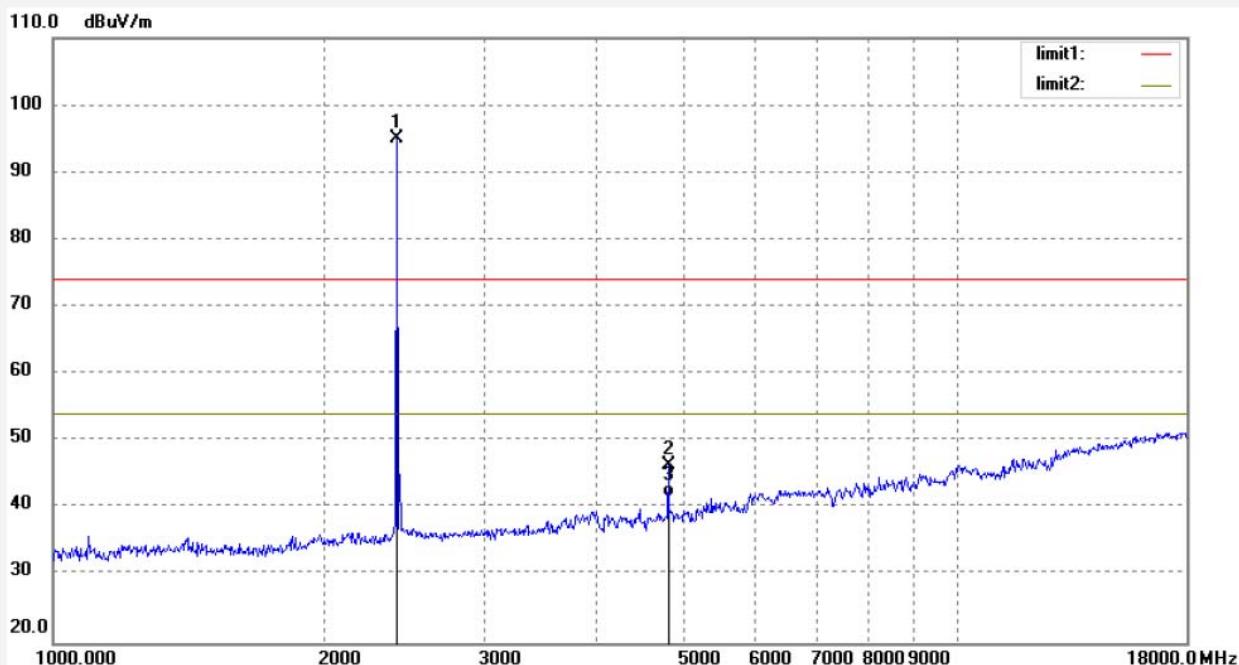
Mode: TX2402MHz

Distance: 3m

Model: CB-BE215

Manufacturer: CLEVER BRIGHT

Note: Report NO.:ATE20172116



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	98.89	-3.91	94.98			peak	250	315	
2	4804.000	42.58	3.75	46.33	74.00	-27.67	peak	250	147	
3	4804.000	37.98	3.75	41.73	54.00	-12.27	AVG	250	147	



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Job No.: frank2017 #1392

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 17/11/02/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 14/14/59

EUT: Bluetooth Stereo Earbuds with Mic

Engineer Signature: Frank

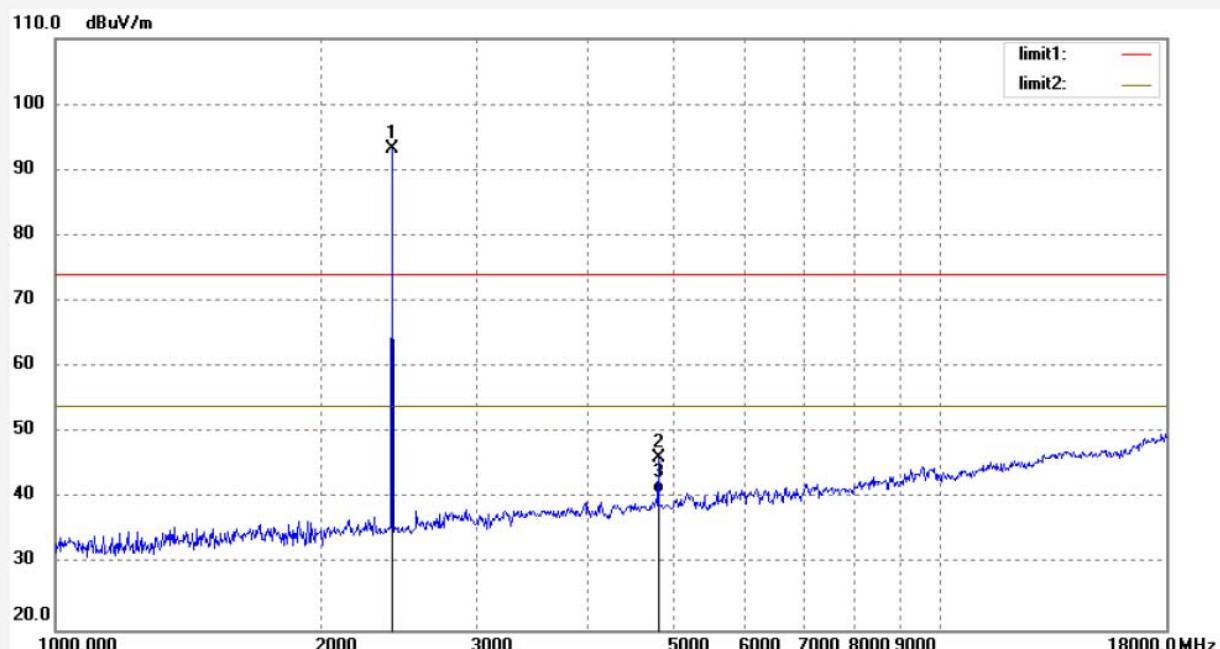
Mode: TX2402MHz

Distance: 3m

Model: CB-BE215

Manufacturer: CLEVER BRIGHT

Note: Report NO.:ATE20172116



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	97.22	-3.91	93.31			peak	200	222	
2	4804.000	42.42	3.75	46.17	74.00	-27.83	peak	200	124	
3	4804.000	37.15	3.75	40.90	54.00	-13.10	AVG	200	124	



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Job No.: frank2017 #1391

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 17/11/02/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 14/14/59

EUT: Bluetooth Stereo Earbuds with Mic

Engineer Signature: Frank

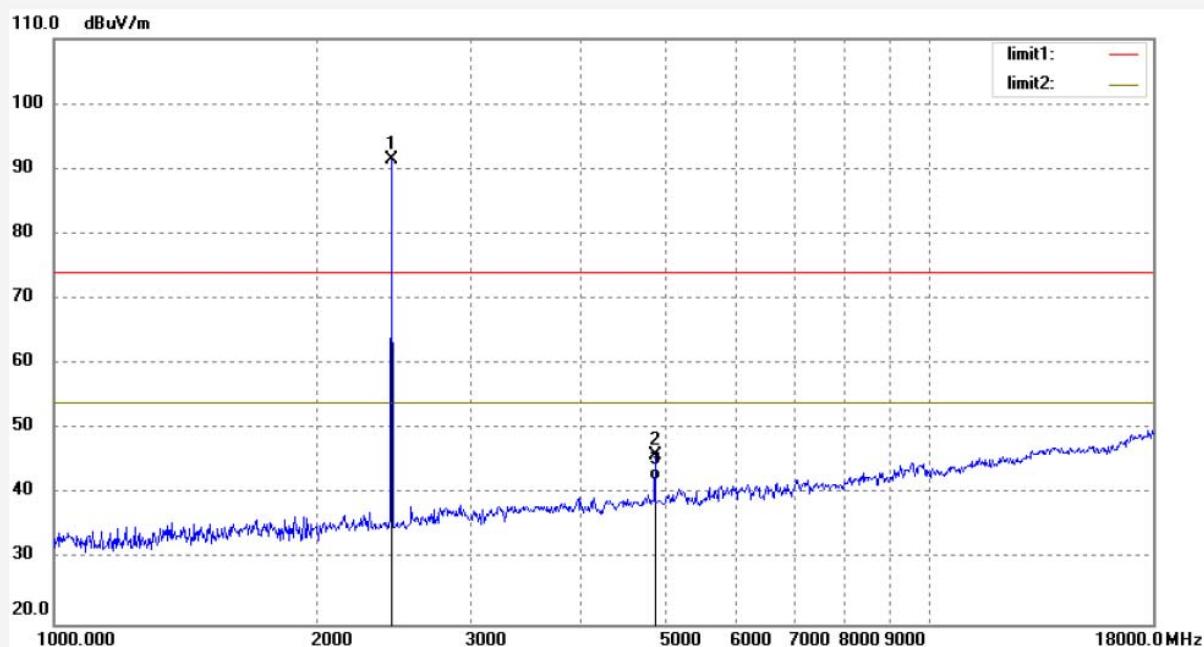
Mode: TX2440MHz

Distance: 3m

Model: CB-BE215

Manufacturer: CLEVER BRIGHT

Note: Report NO.:ATE20172116



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	95.27	-3.77	91.50			peak	200	49	
2	4880.000	42.01	4.00	46.01	74.00	-27.99	peak	200	348	
3	4880.000	38.12	4.00	42.12	54.00	-11.88	AVG	200	348	

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Job No.: frank2017 #1390

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 17/11/02/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 14/12/26

EUT: Bluetooth Stereo Earbuds with Mic

Engineer Signature: Frank

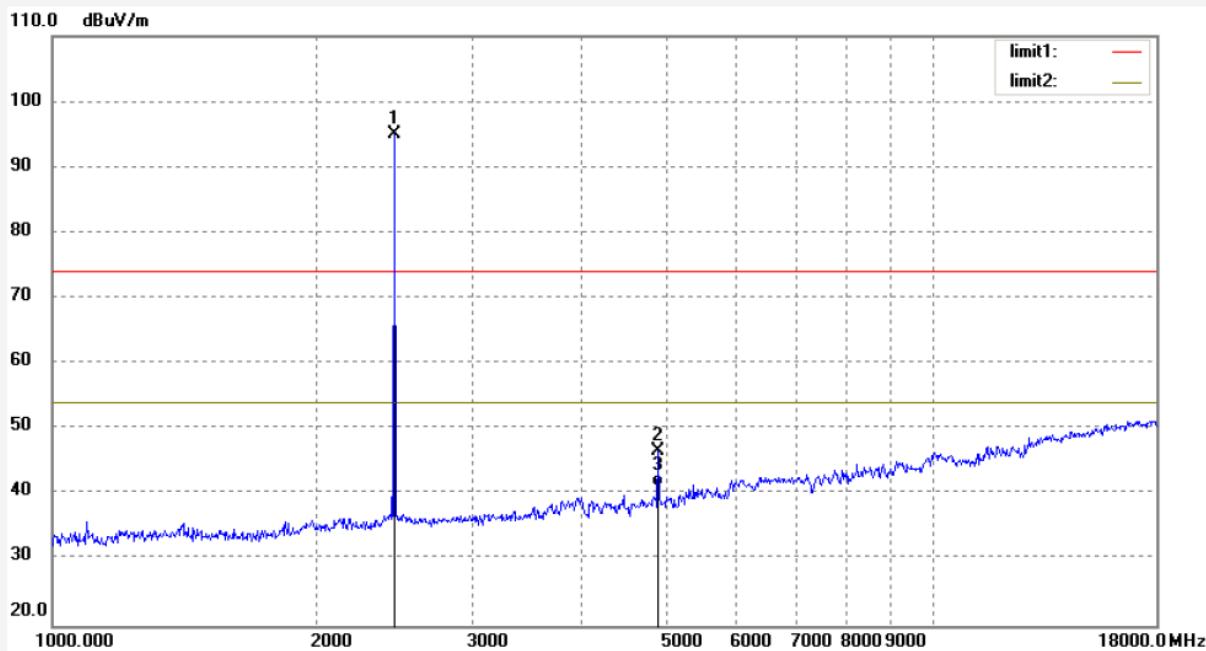
Mode: TX2440MHz

Distance: 3m

Model: CB-BE215

Manufacturer: CLEVER BRIGHT

Note: Report NO.:ATE20172116



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	98.80	-3.67	95.13			peak	250	301	
2	4880.000	42.50	4.11	46.61	74.00	-27.39	peak	250	39	
3	4880.000	37.15	4.11	41.26	54.00	-12.74	AVG	250	39	



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Job No.: frank2017 #1389

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 17/11/02/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 14/12/26

EUT: Bluetooth Stereo Earbuds with Mic

Engineer Signature: Frank

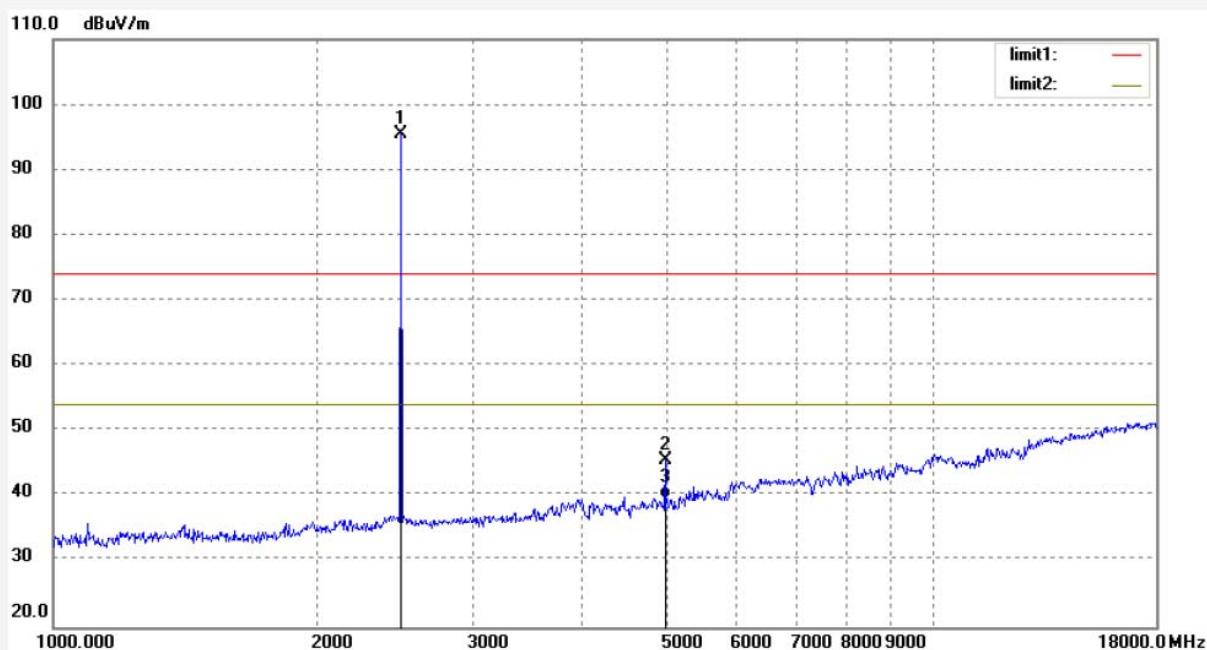
Mode: TX2480MHz

Distance: 3m

Model: CB-BE215

Manufacturer: CLEVER BRIGHT

Note: Report NO.:ATE20172116



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	99.07	-3.48	95.59			peak	200	110	
2	4960.000	41.00	4.49	45.49	74.00	-28.51	peak	200	121	
3	4960.000	35.15	4.49	39.64	54.00	-14.36	AVG	200	121	

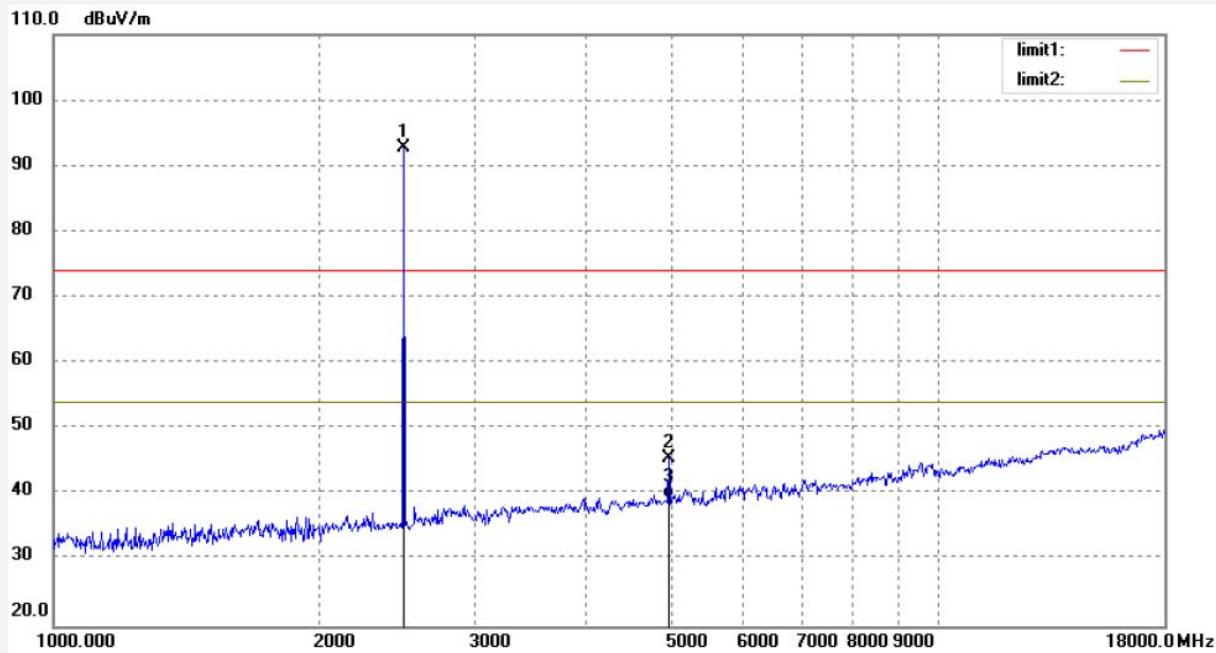


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Site: 1# Chamber
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Job No.: frank2017 #1388	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 3.7V
Test item: Radiation Test	Date: 17/11/02/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 14/14/59
EUT: Bluetooth Stereo Earbuds with Mic	Engineer Signature: Frank
Mode: TX2480MHz	Distance: 3m
Model: CB-BE215	
Manufacturer: CLEVER BRIGHT	
Note: Report NO.:ATE20172116	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	96.26	-3.48	92.78			peak	200	135	
2	4960.000	41.10	4.42	45.52	74.00	-28.48	peak	200	125	
3	4960.000	35.12	4.42	39.54	54.00	-14.46	AVG	200	125	

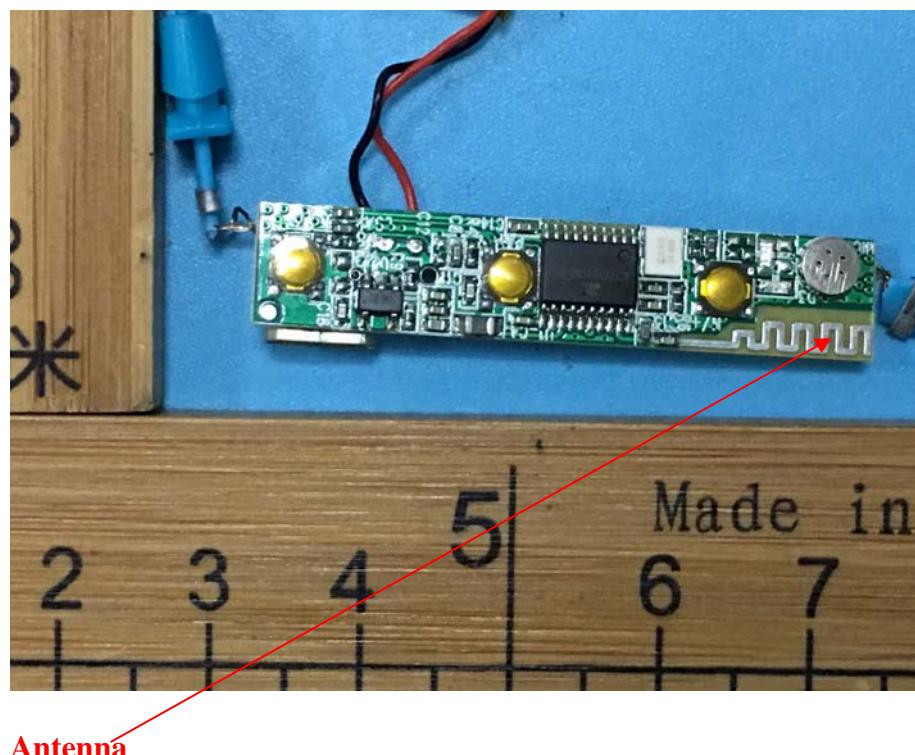
11. ANTENNA REQUIREMENT

11.1. The Requirement

According to 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.

11.2. Antenna Construction

Device is equipped with external Antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 1.0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.

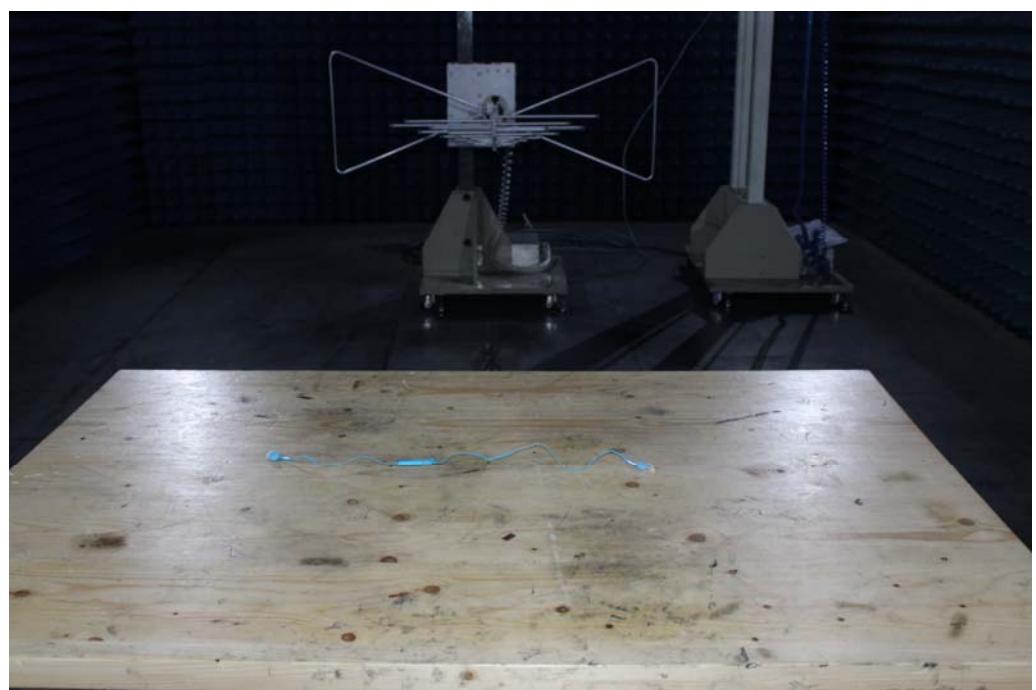


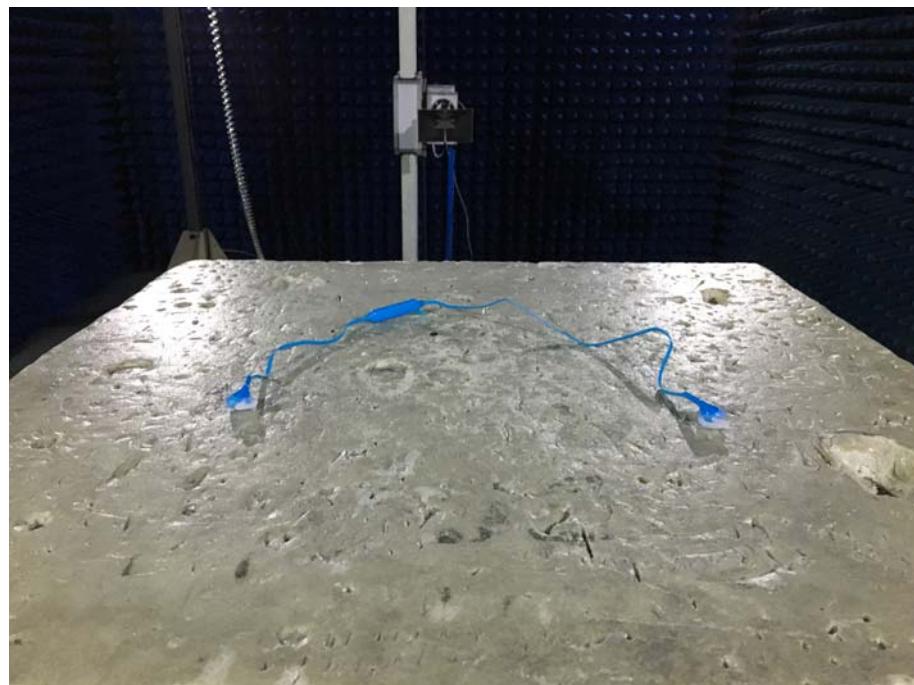
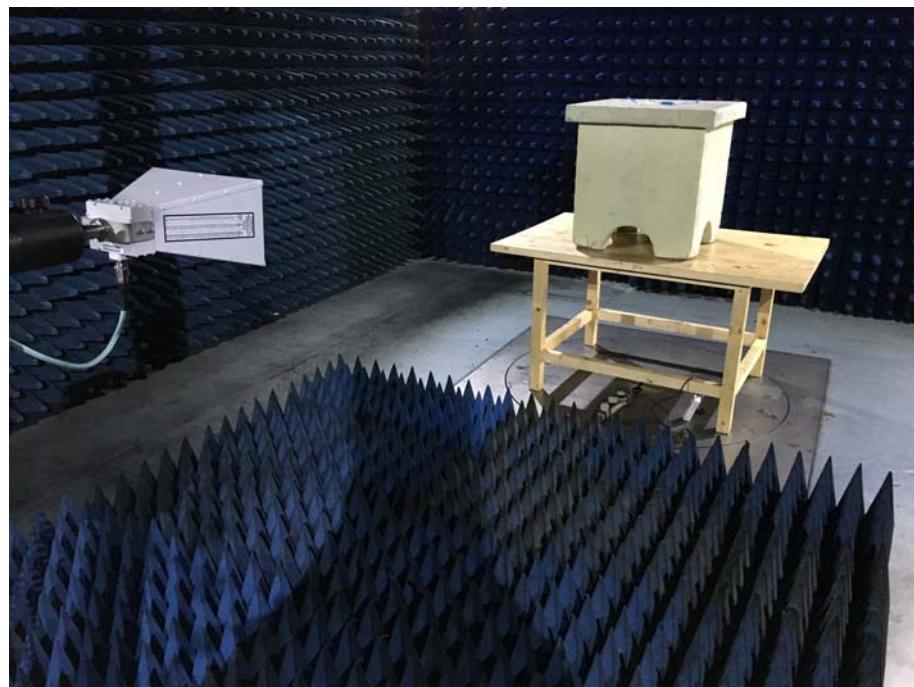
12.PHOTOGRAPHS

12.1.Photo of Power Line Conducted Emission Measurement



12.2.Photo of Radiation Emission Measurement





12.3.Photo of EUT







