

## FCC Report (Bluetooth)

**Product Name** : Bluetooth TWS Earphone  
**Trade mark** : MEE audio  
**Mode No.** : MEE audio X10-BK, MEE audio X10-BL,  
SMBT-0528  
**FCC ID:** : 2ABMR-X10  
**Report Number** : BLA-EMC-201903-A03-01  
**Date of sample receipt** : March 4, 2019  
**Date of Test:** : March 4, 2019–March 12, 2019  
**Date of Issue** : March 25, 2019  
**Test standard** : FCC CFR Title 47 Part 15 Subpart C Section  
15.247  
**Test result** : PASS

Prepared for:  
**s2e, Inc.**

**817 Lawson St. City of Industry, CA 91748**

Prepared by:

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Date: March 25, 2019





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## 2 Version

Version No.	Date	Description
00	March 25, 2019	Original

BlueAsia

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## 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(iii)	Pass
Dwell Time	15.247 (a)(iii)	Pass
Pseudorandom Frequency Hopping Sequence	15.247 (a)(1)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

*Pass: The EUT complies with the essential requirements in the standard.*

*Remark: Test according ANSI C63.10:2013*

### Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.



## 5 General Information

### 5.1 General Description of EUT

Product Name:	Bluetooth TWS Earphone
Model No.:	MEE audio X10-BK, MEE audio X10-BL, SMBT-0528
Test Model No:	MEE audio X10-BK
<i>Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are model name for commercial purpose.</i>	
Serial No.:	N/A
Sample(s) Status	Engineer sample
Hardware:	V09
Software:	V2.16
Operation Frequency:	2402MHz-2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, π/4-DQPSK, 8-DPSK
Antenna Type:	Ceramic chip antenna
Antenna gain:	2.0dBi
Power supply:	DC 3.7V



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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

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## 5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
<i>Remark: Full battery is used during all test except ac conducted emission, DH1, DH3, DH5 all have been tested, only worse case is reported.</i>	

## 5.3 Test Facility

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

- **FCC — Designation No.: CN1252**

*Qianhai BlueAsia of Technical Services(Shenzhen) Co., Ltd* 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 files. Designation CN1252.

- **ISED — CAB identifier No.: CN0028**

*Qianhai BlueAsia of Technical Services(Shenzhen) Co., Ltd* has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with CAB identifier CN0028

## 5.4 Test Location

All tests were performed at:

*All tests were performed at:*

*Qianhai BlueAsia of Technical Services(Shenzhen) Co., Ltd.*

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No tests were sub-contracted.

## 5.5 Other Information Requested by the Customer

None.

## 5.6 Description of Support Units

Manufacturer	Description	Model	Serial Number
UGREEN	Adapter	CD112	20358
Lenovo	Notebook computer	E470C	PF-10FB5C

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## 6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m SAC	SKET	9m*6 m*6m	966	06-10-2018	06-09-2023
2	Broadband Antenna	SCHWARZBECK	VULB9168	00836 P:00227	07-14-2018	07-13-2019
3	Horn Antenna	SCHWARZBECK	9120D	01892 P:00331	07-14-2018	07-13-2019
4	EMI Test Software	EZ	EZ	N/A	N/A	N/A
5	Pre-amplifier	SKET	N/A	N/A	07-19-2018	07-18-2019
6	Spectrum analyzer	Rohde & Schwarz	FSP40	100817	05-24-2018	05-23-2019
7	EMI Test Receiver	Rohde & Schwarz	ESR7	101199	03-21-2018	03-20-2019
8	Controller	SKET	N/A	N/A	N/A	N/A
9	Vector Signal Generator	Agilent	E4438C	MY45092582	05-24-2018	05-23-2019
10	Signal Generator	Agilent	E8257D	MY44320250	05-24-2018	05-23-2019



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Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	EMI Test Receiver	Rohde & Schwarz	ESPI3	101082	06-10-2018	06-09-2019
2	LISN	CHASE	MN2050D	1447	12-18-2018	12-17-2019
3	LISN	Rohde & Schwarz	ENV216	3560.6550.15	07-19-2018	07-18-2019
4	EMI Test Software	EZ	EZ	N/A	N/A	N/A
5	Temperature Humidity Chamber	Mingle	TH101B	N/A	07-19-2018	07-18-2019

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Spectrum Analyzer	Agilent	N9030A	MY50510123	05-24-2018	05-23-2019
2	Spectrum analyzer	Rohde & Schwarz	FSP40	100817	05-24-2018	05-23-2019
3	MXA Signal Analyzer	Agilent	N9020A	MY49100060	12-18-2018	12-17-2019
4	Vector Signal Generator	Agilent	N5182A	MY49060650	12-18-2018	12-17-2019
5	Vector Signal Generator	Agilent	E4438C	MY45092582	05-24-2018	05-23-2019
6	Signal Generator	Agilent	E8257D	MY44320250	05-24-2018	05-23-2019
7	Power Sensor	D.A.R.E	RPR3006W	17I00015SNO27	05-24-2018	05-23-2019
8	Power Sensor	D.A.R.E	RPR3006W	17I00015SNO28	05-24-2018	05-23-2019
9	DC Power Supply	LODESTAR	LP305DE	N/A	07-19-2018	07-18-2019
10	Temperature Humidity Chamber	Mingle	TH101B	N/A	07-19-2018	07-18-2019

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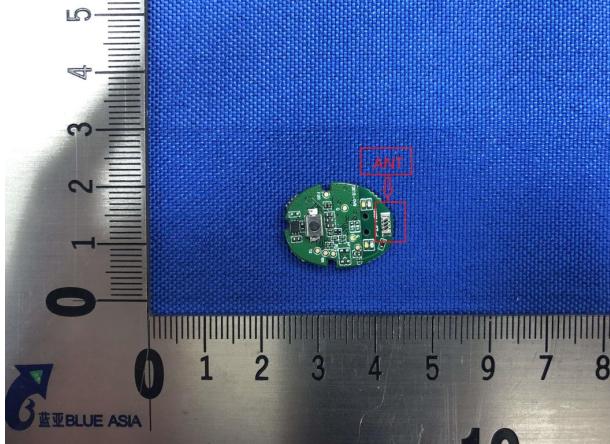
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## 7 Test results and Measurement Data

### 7.1 Antenna requirement

<b>Standard requirement:</b>	FCC Part15 C Section 15.203 /247(c)
<b>15.203 requirement:</b> 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
<b>15.247(c) (1)(i) requirement:</b> (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
<b>E.U.T Antenna:</b> <i>The antenna is Ceramic chip antenna, the best case gain of the antenna is 2.0dBi</i> 	



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## 7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207																
Test Method:	ANSI C63.10:2013																
Test Frequency Range:	150KHz to 30MHz																
Class / Severity:	Class B																
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto																
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* Decreases with the logarithm of the frequency.</p>			Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)																
	Quasi-peak	Average															
0.15-0.5	66 to 56*	56 to 46*															
0.5-5	56	46															
5-30	60	50															
Test setup:	<p><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>																
Test procedure:	<ol style="list-style-type: none"> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.</li> </ol>																
Test Instruments:	Refer to section 6.0 for details																
Test mode:	Refer to section 5.2 for details																
Test results:	Pass																

### Measurement data:

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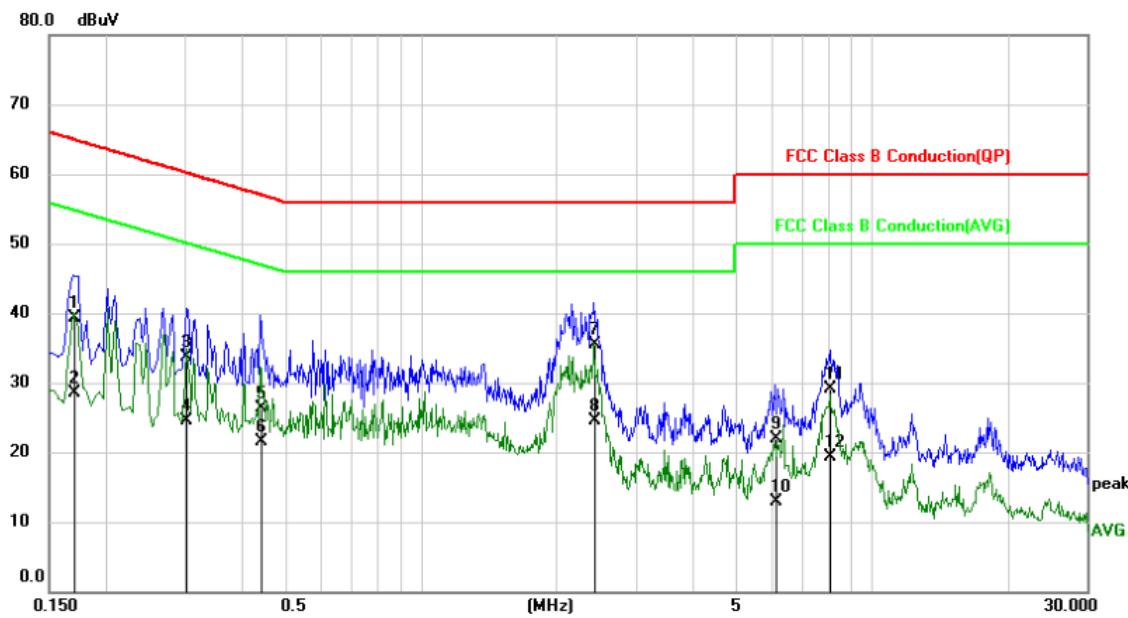
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Line:

EUT:	Bluetooth TWS Earphone	Probe:	L1
Model:	MEE audio X10-BK	Power Source:	AC120V/60Hz
Mode:	BT mode	Test by:	Joan
Temp./Hum.(%H): 26°C/60%RH			



No.	Mk.	Freq.	Reading	Correct Factor	Measure- ment	Limit	Over
			Level				
		MHz	dBuV	dB	dBuV	dB	Detector
1		0.1700	29.13	10.11	39.24	64.96	-25.72 QP
2		0.1700	18.38	10.11	28.49	54.96	-26.47 AVG
3		0.3020	23.72	9.96	33.68	60.19	-26.51 QP
4		0.3020	14.50	9.96	24.46	50.19	-25.73 AVG
5		0.4420	16.30	10.03	26.33	57.02	-30.69 QP
6		0.4420	11.56	10.03	21.59	47.02	-25.43 AVG
7 *		2.4260	25.63	9.81	35.44	56.00	-20.56 QP
8		2.4260	14.61	9.81	24.42	46.00	-21.58 AVG
9		6.1060	12.08	9.74	21.82	60.00	-38.18 QP
10		6.1060	3.23	9.74	12.97	50.00	-37.03 AVG
11		8.0780	19.25	9.77	29.02	60.00	-30.98 QP
12		8.0780	9.63	9.77	19.40	50.00	-30.60 AVG

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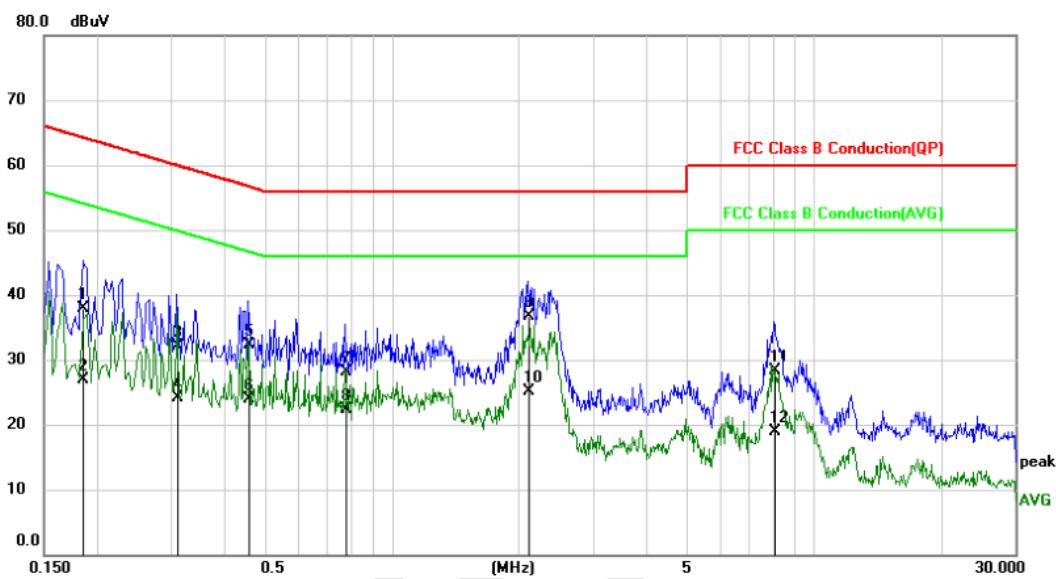
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**Neutral:**

<b>EUT:</b>	Bluetooth TWS Earphone	<b>Probe:</b>	N
<b>Model:</b>	MEE audio X10-BK	<b>Power Source:</b>	AC120V/60Hz
<b>Mode:</b>	BT mode	<b>Test by:</b>	Joan
<b>Temp./Hum.(%H):</b> 26°C/60%RH			



No. Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector
		dBuV	dB	dBuV	dBuV	dB	
1	0.1860	27.64	10.19	37.83	64.21	-26.38	QP
2	0.1860	16.68	10.19	26.87	54.21	-27.34	AVG
3	0.3100	22.09	10.03	32.12	59.97	-27.85	QP
4	0.3100	13.98	10.03	24.01	49.97	-25.96	AVG
5	0.4580	22.18	10.18	32.36	56.73	-24.37	QP
6	0.4580	13.66	10.18	23.84	46.73	-22.89	AVG
7	0.7780	17.92	10.11	28.03	56.00	-27.97	QP
8	0.7780	12.19	10.11	22.30	46.00	-23.70	AVG
9 *	2.1060	26.75	9.99	36.74	56.00	-19.26	QP
10	2.1060	15.13	9.99	25.12	46.00	-20.88	AVG
11	8.0219	18.36	9.96	28.32	60.00	-31.68	QP
12	8.0219	8.94	9.96	18.90	50.00	-31.10	AVG

**Notes:**

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level =Receiver Read level +Correct Factor

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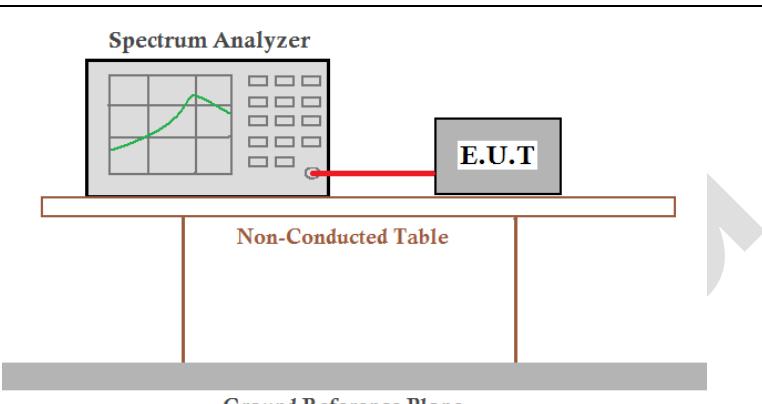
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4. Correct Factor = LISN Factor + Cable Loss

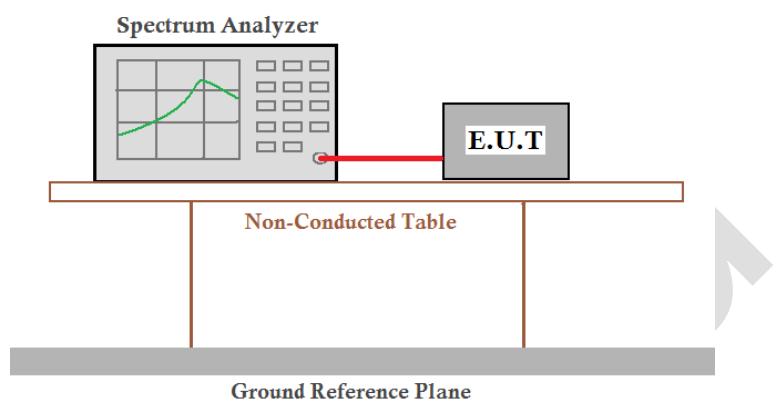
### 7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013
Limit:	30dBm(for GFSK),21dBm(for EDR)
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

#### Measurement Data

Reference to the AppendixC: Maximum conducted output power

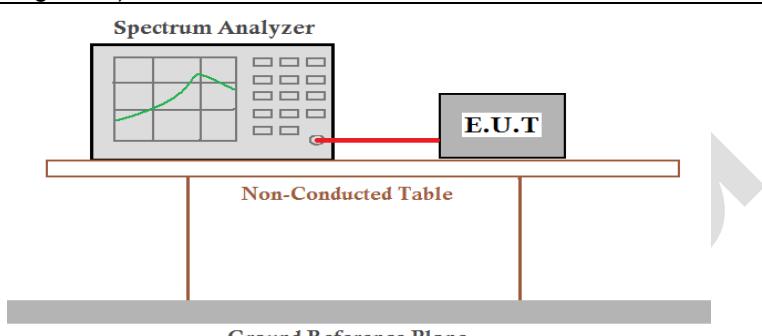
## 7.4 20dB Emission Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013
Limit:	N/A
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

### Measurement Data

Reference to the AppendixA: 20dBEmission Bandwidth

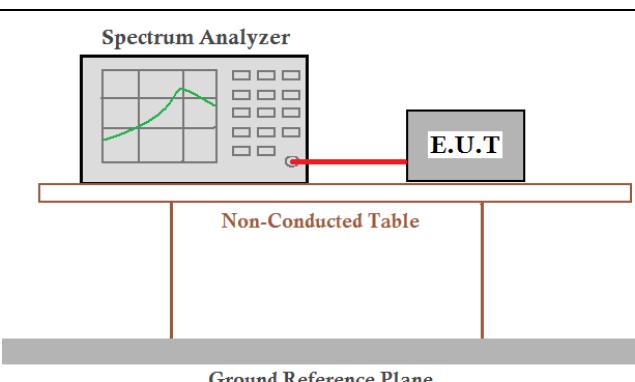
## 7.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100KHz, VBW=300KHz, detector=Peak
Limit:	GFSK: 20dB bandwidth Pi/4QPSK & 8-DPSK: 0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

### Measurement Data

Reference to the AppendixD: Carrier frequency separation

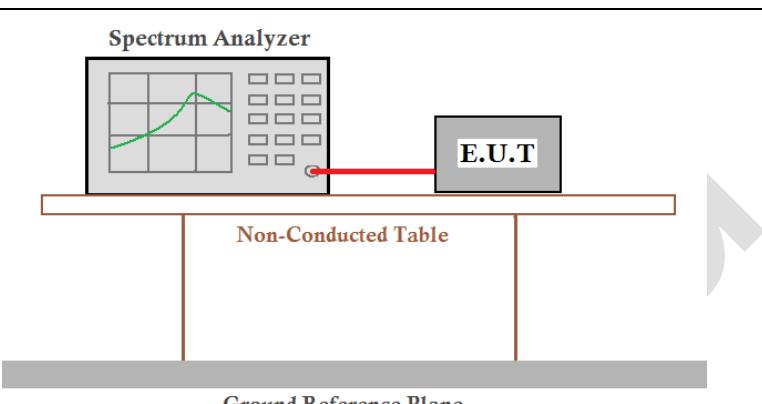
## 7.6 Hopping Channel Number

Test Requirement:	FCC Part15 C Section 15.247 (a)(iii)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	15 channels
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

### Measurement Data:

Reference to the AppendixF: Number of hopping channels

## 7.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(iii)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=1MHz, VBW=1MHz, Span=0Hz, Detector=Peak
Limit:	0.4 Second
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

### Measurement Data

Reference to the AppendixE: Time of occupancy

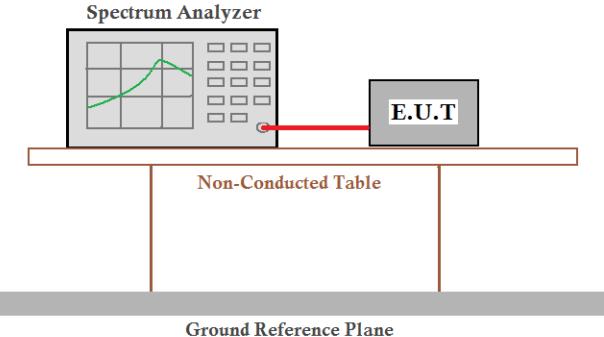


## 7.8 Pseudorandom Frequency Hopping Sequence

Test Requirement:	FCC Part15 C Section 15.247 (a)(1) requirement:																						
	<p>Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.</p> <p>Alternatively, Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.</p>																						
<b>EUT Pseudorandom Frequency Hopping Sequence</b>																							
<p>The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.</p> <ul style="list-style-type: none"><li>• Number of shift register stages: 9</li><li>• Length of pseudo-random sequence: <math>2^9 - 1 = 511</math> bits</li><li>• Longest sequence of zeros: 8 (non-inverted signal)</li></ul> <p>Linear Feedback Shift Register for Generation of the PRBS sequence</p> <p>An example of Pseudorandom Frequency Hopping Sequence as follow:</p> <table border="1"><tr><td>0</td><td>2</td><td>4</td><td>6</td><td>62</td><td>64</td><td>78</td><td>1</td><td>73</td><td>75</td><td>77</td></tr><tr><td> </td><td> </td></tr></table> <p>Each frequency used equally on the average by each transmitter.</p> <p>The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.</p>		0	2	4	6	62	64	78	1	73	75	77											
0	2	4	6	62	64	78	1	73	75	77													

## 7.9 Band Edge

### 7.9.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100kHz, VBW=300kHz, Detector=Peak
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test setup:	<p style="text-align: center;">    <b>Spectrum Analyzer</b>  <b>E.U.T</b>  <b>Non-Conducted Table</b>  <b>Ground Reference Plane</b> </p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

#### Measurement Data

Reference to the AppendixG:Band edge measurements

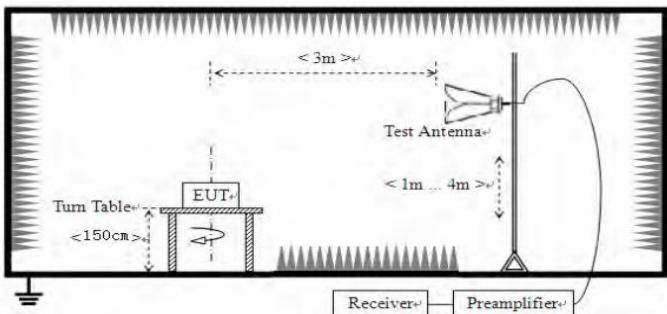


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### 7.9.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205										
Test Method:	ANSI C63.10:2013										
Test Frequency Range:	All restriction band have been tested, and 2310MHz to 2390MHz, 2483.5MHz to 2500MHz band is the worse case										
Test site:	Measurement Distance: 3m										
Receiver setup:	Frequency	Detector	RBW	VBW	Remark						
	Above 1GHz	Peak	1MHz	3MHz	Peak Value						
Limit:	Frequency	Limit (dBuV/m @3m)		Remark							
	Above 1GHz	54.00		Average Value							
Test setup:											
Test Procedure:	<ol style="list-style-type: none"><li>The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li><li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li><li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li><li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li></ol>										
Test Instruments:	Refer to section 6.0 for details										
Test mode:	Refer to section 5.2 for details										
Test results:	Pass										

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**Remark:**

- During the test, pre-scan the GFSK, Pi/4QPSK, 8-DPSK modulation, and found the 8-DPSK modulation which it is worse case.

Test channel:	Lowest
---------------	--------

**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	56.59	-14.56	42.03	74.00	-31.97	Horizontal
2390.00	60.43	-14.19	46.24	74.00	-27.76	Horizontal
2310.00	60.43	-14.85	45.58	74.00	-28.42	Vertical
2390.00	61.24	-14.52	46.72	74.00	-27.28	Vertical

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	46.72	-14.56	32.16	54.00	-21.84	Horizontal
2390.00	50.08	-14.19	35.89	54.00	-18.11	Horizontal
2310.00	40.50	-14.85	25.65	54.00	-28.35	Vertical
2390.00	41.77	-14.52	27.25	54.00	-26.75	Vertical

Test channel:	Highest
---------------	---------

**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	55.19	-13.66	41.53	74.00	-32.47	Horizontal
2500.00	56.84	-13.57	43.27	74.00	-30.73	Horizontal
2483.50	54.24	-14.05	40.19	74.00	-33.81	Vertical
2500.00	55.18	-13.97	41.21	74.00	-32.79	Vertical

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	43.24	-13.66	29.58	54.00	-24.42	Horizontal
2500.00	43.15	-13.57	29.58	54.00	-24.42	Horizontal
2483.50	44.31	-14.05	30.26	54.00	-23.74	Vertical
2500.00	44.56	-13.97	30.59	54.00	-23.41	Vertical

**Remark:**

- Final Level = Receiver Read level + Correct factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- Correct factor = Antenna Factor + Cable Loss - Preamplifier Factor

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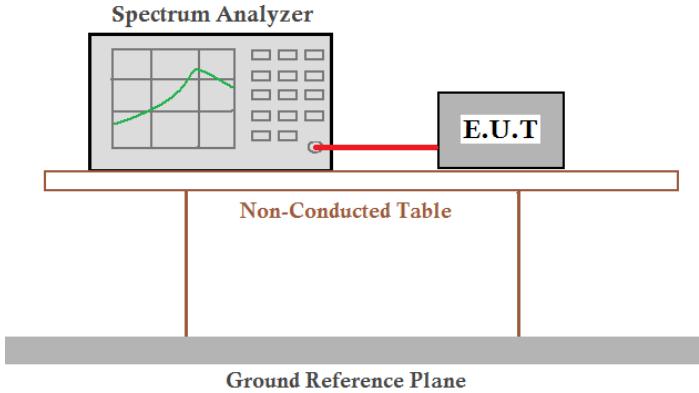
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## 7.10 Spurious Emission

### 7.10.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test setup:	 <p>The diagram illustrates the test setup for conducted spurious emission. A Spectrum Analyzer is connected to the Equipment Under Test (E.U.T) via a cable. The E.U.T is placed on a Non-Conducted Table. The entire assembly sits on a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

#### Measurement Data

Reference to the AppendixH:Conducted SpuriousEmission



### 7.10.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	PK,AV,QP	200Hz	600Hz	PK,AV,QP
	150KHz-30MHz	PK,AV,QP	9KHz	30KHz	PK,AV,QP
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit: (Spurious Emissions)	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	PK,AV,QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	30m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Limit: (band edge)	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.				



Test setup:	<p>Below 30MHz</p> <p>Below 1GHz</p> <p>Above 1GHz</p> <p>The diagrams illustrate the test setup for different frequency ranges. In all cases, the EUT is on a turntable, and the receiving antenna is a whip antenna mounted on a variable-height tower. The distance between the EUT and the antenna is 3 meters. The height of the EUT above the ground plane varies: 0.8m for below 30MHz, 80cm for below 1GHz, and 150cm for above 1GHz. The turntable is connected to a receiver and preamplifier.</p>
Test Procedure:	<ol style="list-style-type: none"><li>1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li></ol>

	<ul style="list-style-type: none"> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ul>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

#### Measurement data:

##### Remark:

1. During the test, pre-scan the GFSK, Pi/4QPSK, 8-DPSK modulation, and found the 8-DPSK modulation which it is worse case.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

#### ■ 9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



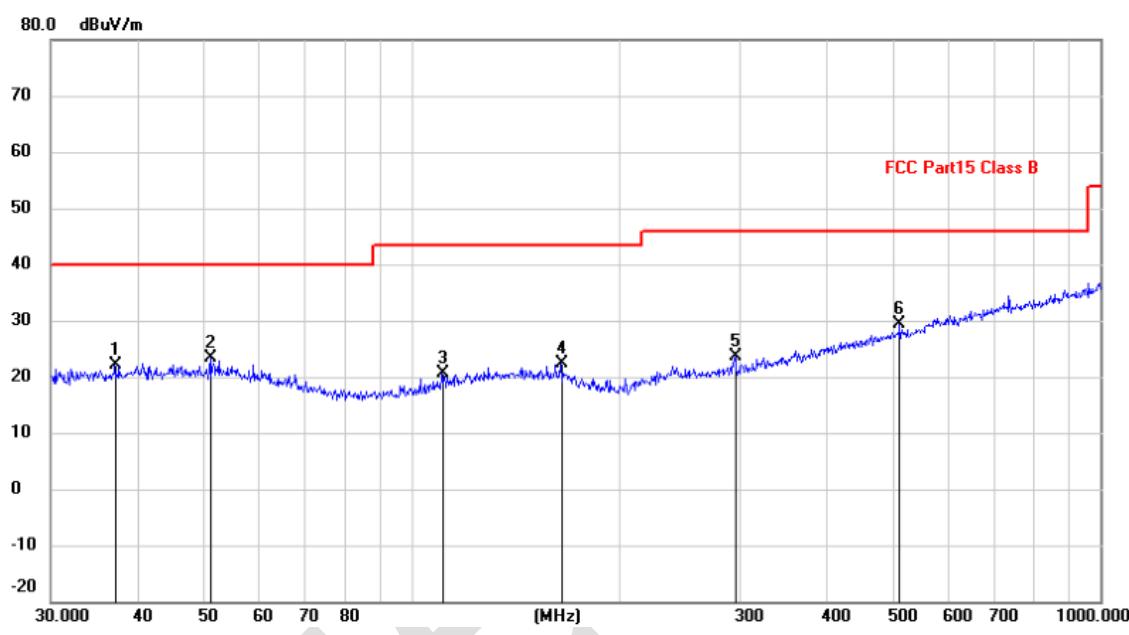
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## ■ Below 1GHz

EUT:	Bluetooth TWS Earphone	Polarization:	Horizontal
Model:	MEE audio X10-BK	Power Source:	AC120V/60Hz
Mode:	BT mode	Test by:	Joan
Temp./Hum.(%H):	26°C/60%RH		



No.	Mk.	Freq.	Reading	Correct Factor	Measure-	Limit	Over	
			Level					
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		37.1550	8.97	13.08	22.05	40.00	-17.95	QP
2		51.1209	9.47	13.86	23.33	40.00	-16.67	QP
3		110.9571	9.13	11.44	20.57	43.50	-22.93	QP
4		164.9075	9.80	12.50	22.30	43.50	-21.20	QP
5		295.1469	10.24	13.34	23.58	46.00	-22.42	QP
6	*	511.8352	10.28	19.12	29.40	46.00	-16.60	QP

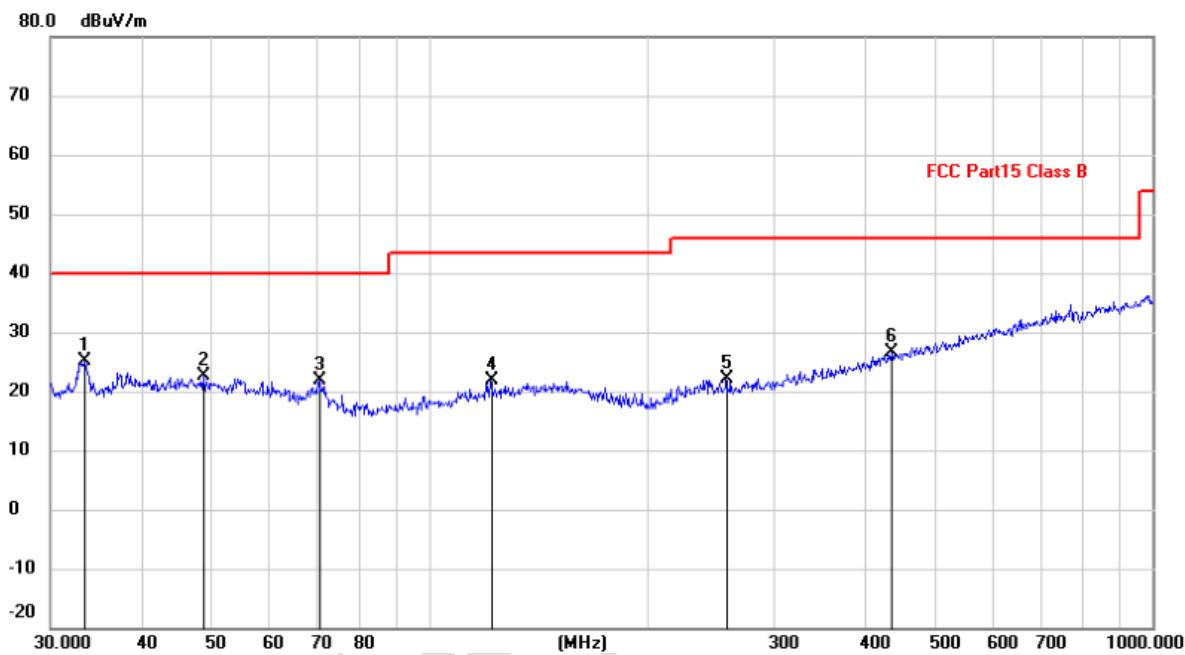
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<b>EUT:</b>	Bluetooth TWS Earphone	<b>Polarization:</b>	Vertical
<b>Model:</b>	MEE audio X10-BK	<b>Power Source:</b>	AC120V/60Hz
<b>Mode:</b>	BT mode	<b>Test by:</b>	Joan
<b>Temp./Hum.(%H):</b> 26°C/60%RH			



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Over Detector
1	*	33.4449	12.68	12.37	25.05	40.00	-14.95	QP
2		48.8429	8.79	13.95	22.74	40.00	-17.26	QP
3		70.5836	11.20	10.72	21.92	40.00	-18.08	QP
4		121.5486	9.51	12.44	21.95	43.50	-21.55	QP
5		257.4222	9.34	12.67	22.01	46.00	-23.99	QP
6		435.5898	9.25	17.35	26.60	46.00	-19.40	QP



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## ■ Above 1GHz

Test channel:	Lowest
---------------	--------

## Peak value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	52.54	-7.43	45.11	74.00	-28.89	Vertical
7206.00	56.81	-2.42	54.39	74.00	-19.61	Vertical
9608.00	58.03	-2.38	55.65	74.00	-18.35	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	52.09	-7.43	44.66	74.00	-29.34	Horizontal
7206.00	57.12	-2.42	54.70	74.00	-19.30	Horizontal
9608.00	58.47	-2.38	56.09	74.00	-17.91	Horizontal
12010.00	*			74.00		Horizontal
14412.00	*			74.00		Horizontal

## Average value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	41.17	-7.43	33.74	54.00	-20.26	Vertical
7206.00	42.69	-2.42	40.27	54.00	-13.73	Vertical
9608.00	43.56	-2.38	41.18	54.00	-12.82	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	40.82	-7.43	33.39	54.00	-20.61	Horizontal
7206.00	41.36	-2.42	38.94	54.00	-15.06	Horizontal
9608.00	42.58	-2.38	40.20	54.00	-13.80	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*			54.00		Horizontal

## Remark:

- Final Level = Receiver Read level + Correct factor
- Correct factor = Antenna Factor + Cable Loss – Preamplifier Factor
- "\*", means this data is the too weak instrument of signal is unable to test.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

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Test channel:	Middle
---------------	--------

**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	52.05	-7.49	44.56	74.00	-29.44	Vertical
7323.00	56.93	-2.40	54.53	74.00	-19.47	Vertical
9764.00	57.15	-2.38	54.77	74.00	-19.23	Vertical
12205.00	*			74.00		Vertical
14646.00	*			74.00		Vertical
4882.00	52.33	-7.49	44.84	74.00	-29.16	Horizontal
7323.00	56.64	-2.40	54.24	74.00	-19.74	Horizontal
9764.00	58.04	-2.38	55.66	74.00	-18.34	Horizontal
12205.00	*			74.00		Horizontal
14646.00	*			74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	39.83	-7.49	32.34	54.00	-21.66	Vertical
7323.00	41.58	-2.40	39.18	54.00	-14.82	Vertical
9764.00	42.63	-2.38	40.25	54.00	-13.75	Vertical
12205.00	*			54.00		Vertical
14646.00	*			54.00		Vertical
4882.00	42.00	-7.49	34.51	54.00	-19.49	Horizontal
7323.00	42.17	-2.40	39.77	54.00	-14.23	Horizontal
9764.00	41.03	-2.38	38.65	54.00	-15.35	Horizontal
12205.00	*			54.00		Horizontal
14646.00	*			54.00		Horizontal

**Remark:**

1. Final Level = Receiver Read level + Correct factor
2. Correct factor = Antenna Factor + Cable Loss – Preamplifier Factor
3. \*\*\*, means this data is the too weak instrument of signal is unable to test.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



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Test channel:	Highest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	51.86	-7.47	44.39	74.00	-29.61	Vertical
7440.00	57.75	-2.45	55.30	74.00	-18.70	Vertical
9920.00	58.16	-2.37	55.79	74.00	-18.21	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	52.11	-7.47	44.64	74.00	-29.36	Horizontal
7440.00	56.31	-2.45	53.86	74.00	-20.14	Horizontal
9920.00	58.69	-2.37	56.32	74.00	-17.68	Horizontal
12400.00	*			74.00		Horizontal
14880.00	*			74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	39.16	-7.47	31.69	54.00	-22.31	Vertical
7440.00	41.58	-2.45	39.13	54.00	-17.87	Vertical
9920.00	42.03	-2.37	39.66	54.00	-14.34	Vertical
12400.00	*			54.00		Vertical
14880.00	*			54.00		Vertical
4960.00	39.89	-7.47	32.42	54.00	-21.58	Horizontal
7440.00	42.11	-2.45	39.66	54.00	-14.34	Horizontal
9920.00	41.86	-2.37	39.49	54.00	-14.51	Horizontal
12400.00	*			54.00		Horizontal
14880.00	*			54.00		Horizontal

**Remark:**

- Final Level = Receiver Read level + Correct factor
- Correct factor = Antenna Factor + Cable Loss – Preamplifier Factor
- \*\*, means this data is the too weak instrument of signal is unable to test.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

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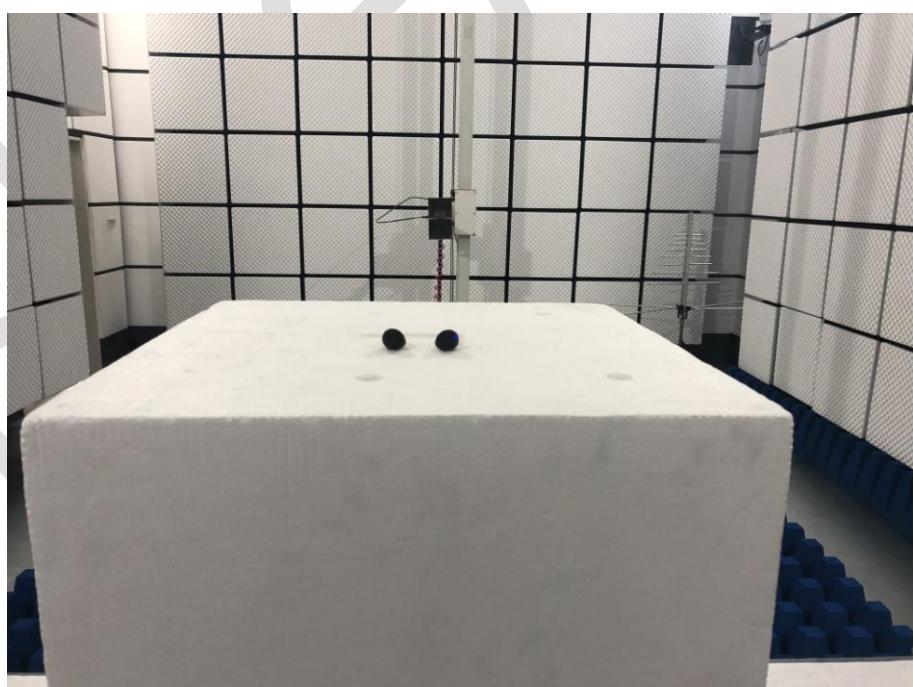
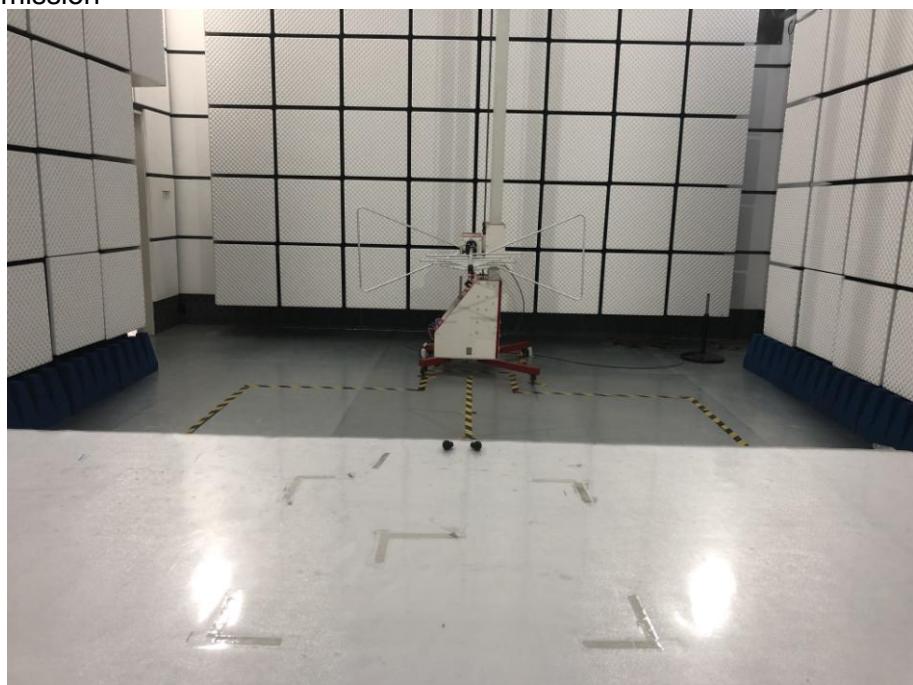
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## 8 Test Setup Photo

Radiated Emission



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Conducted Emission





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## 9 EUT Constructional Details



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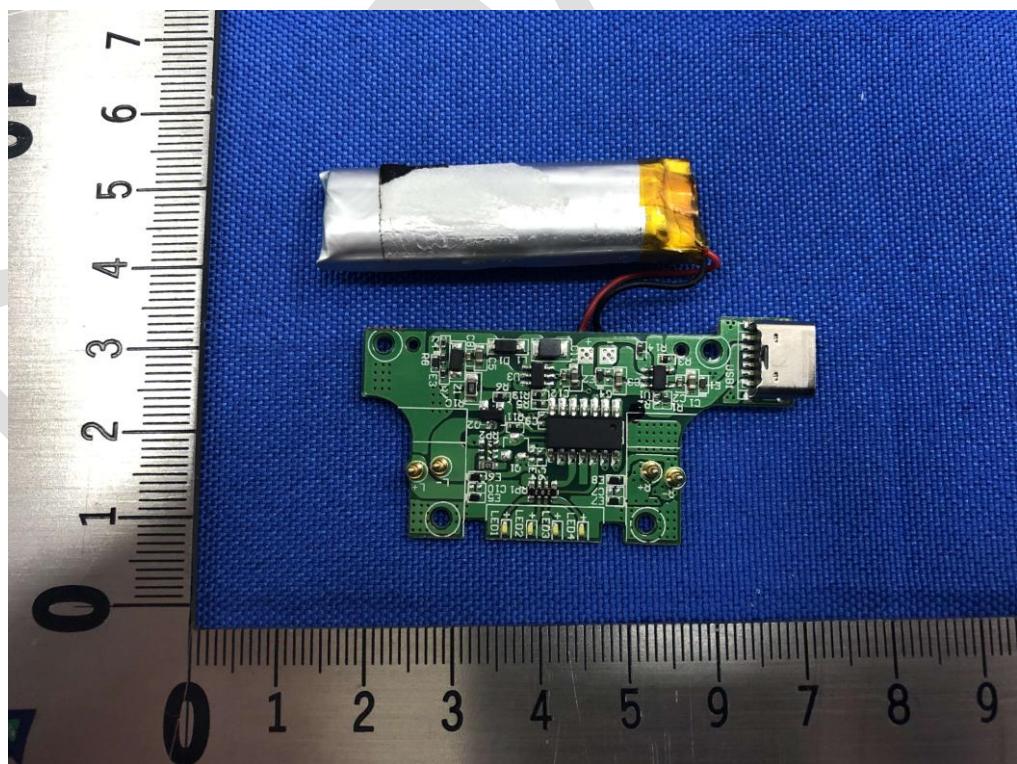
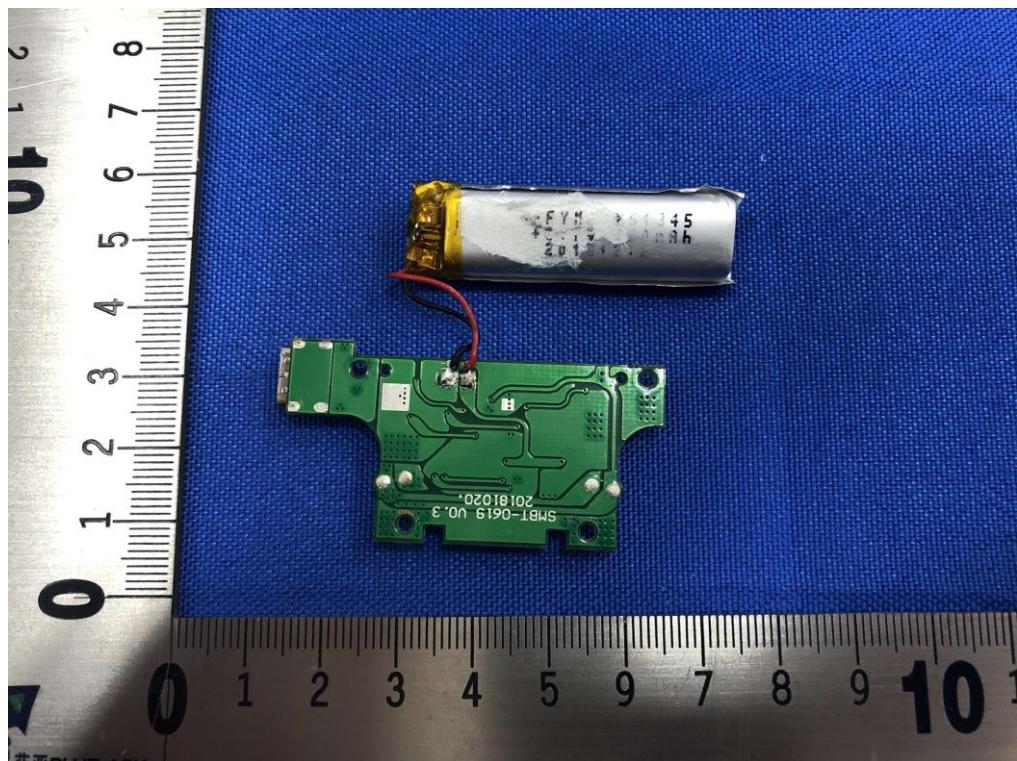
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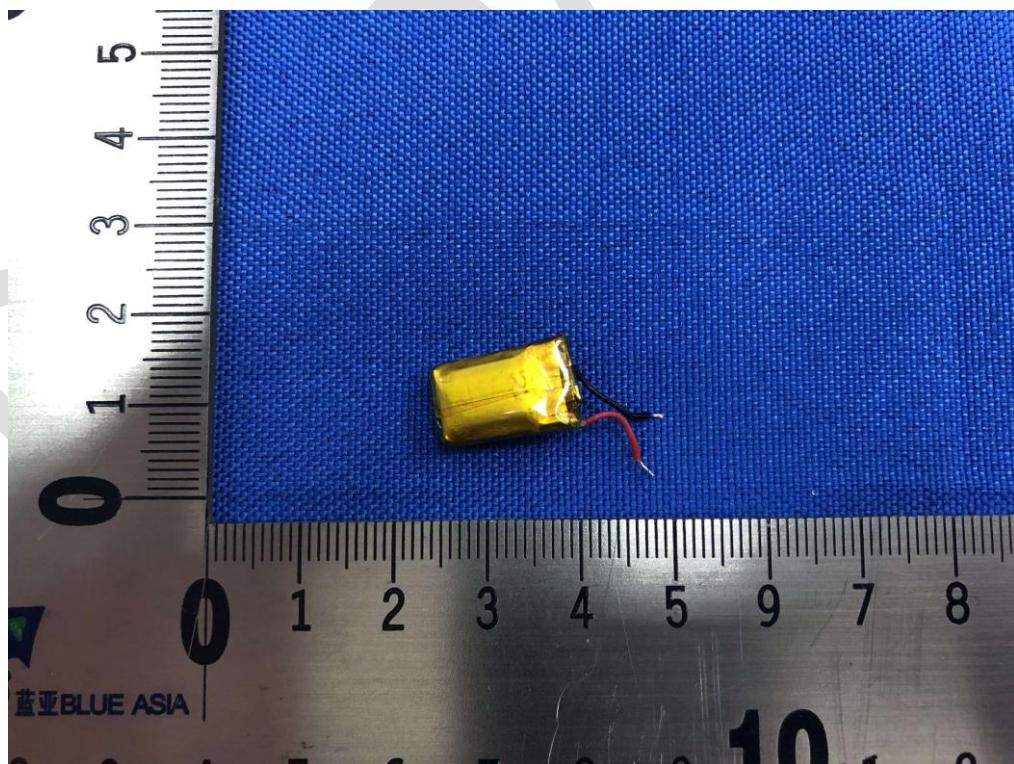
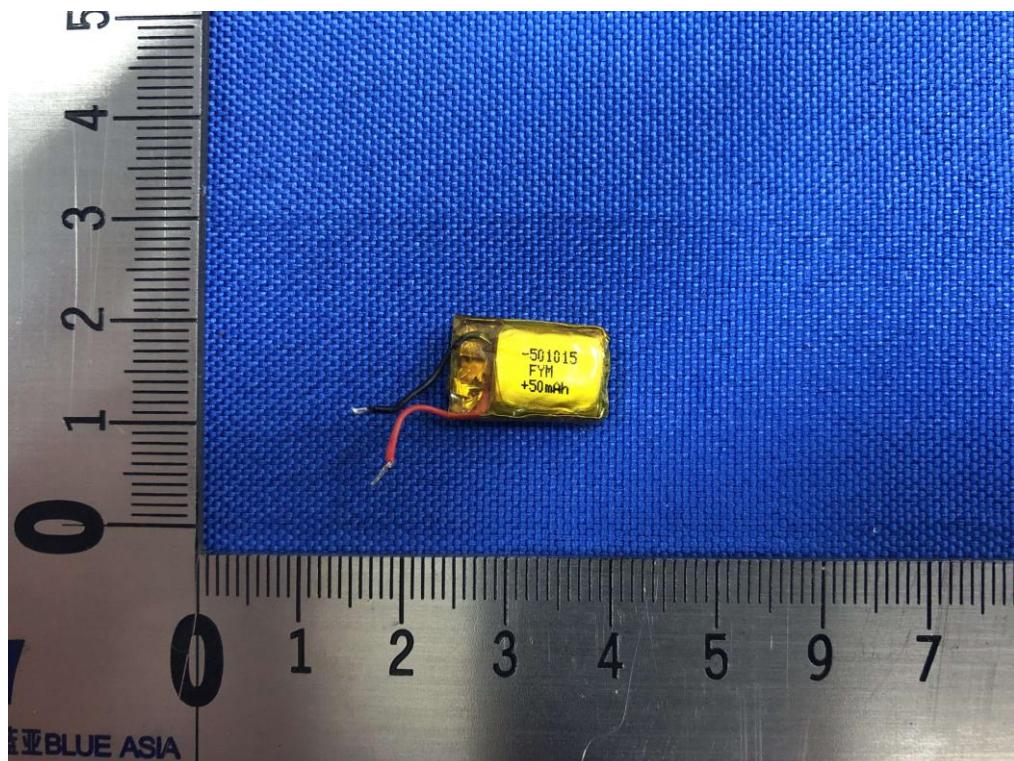
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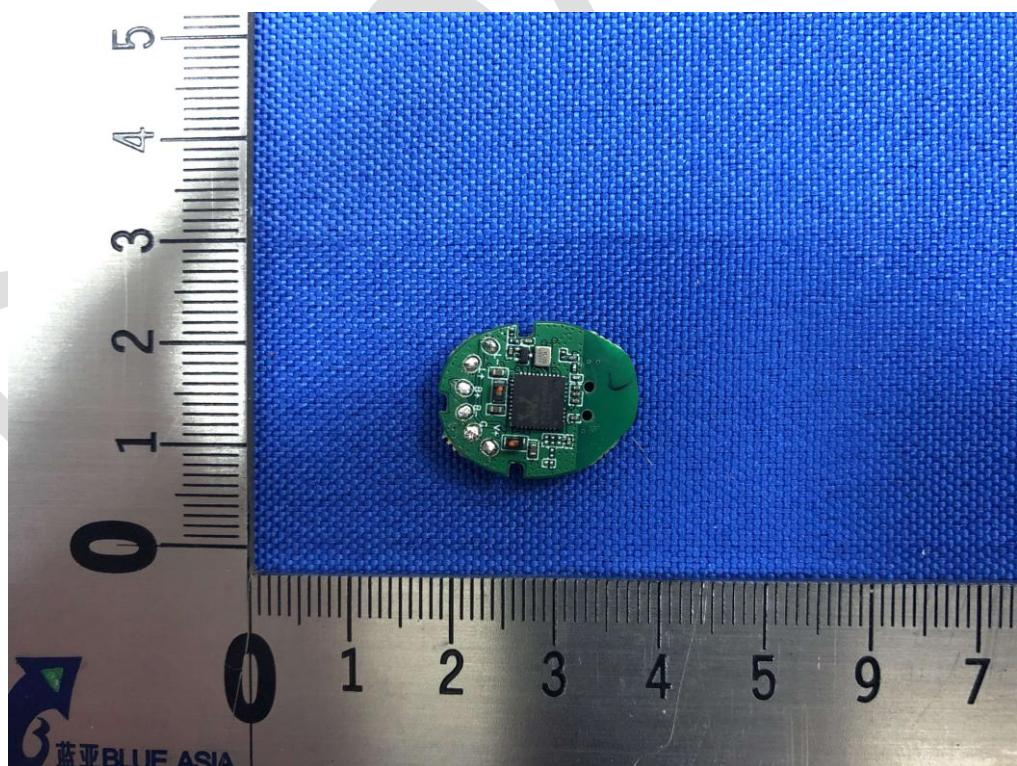
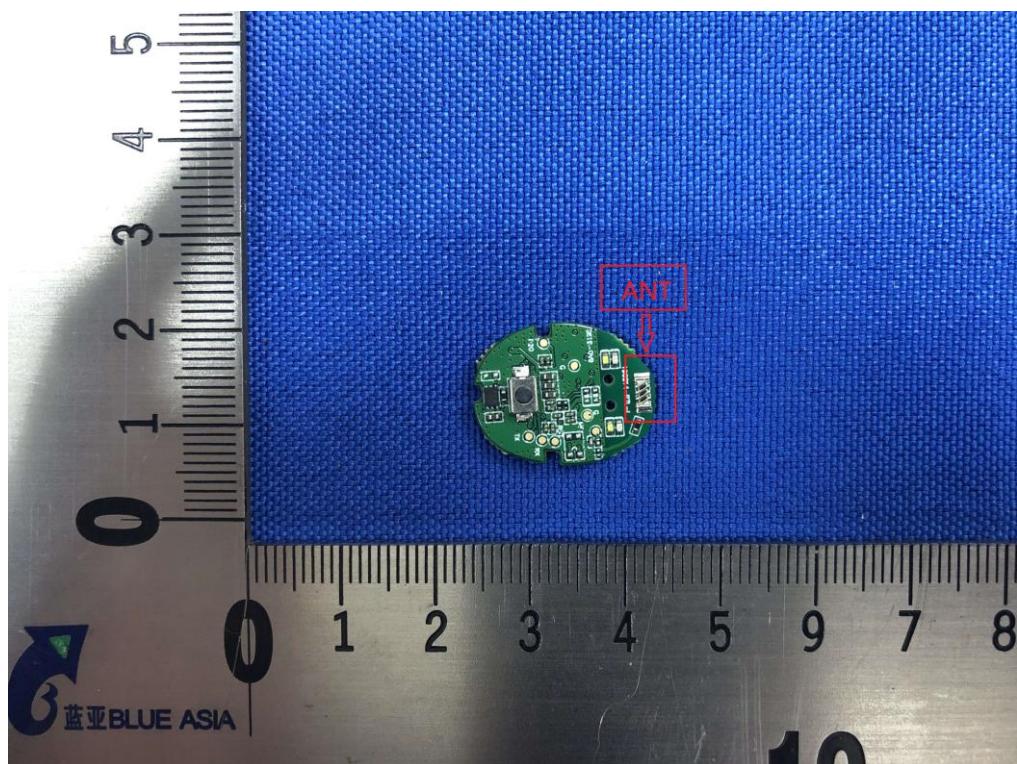
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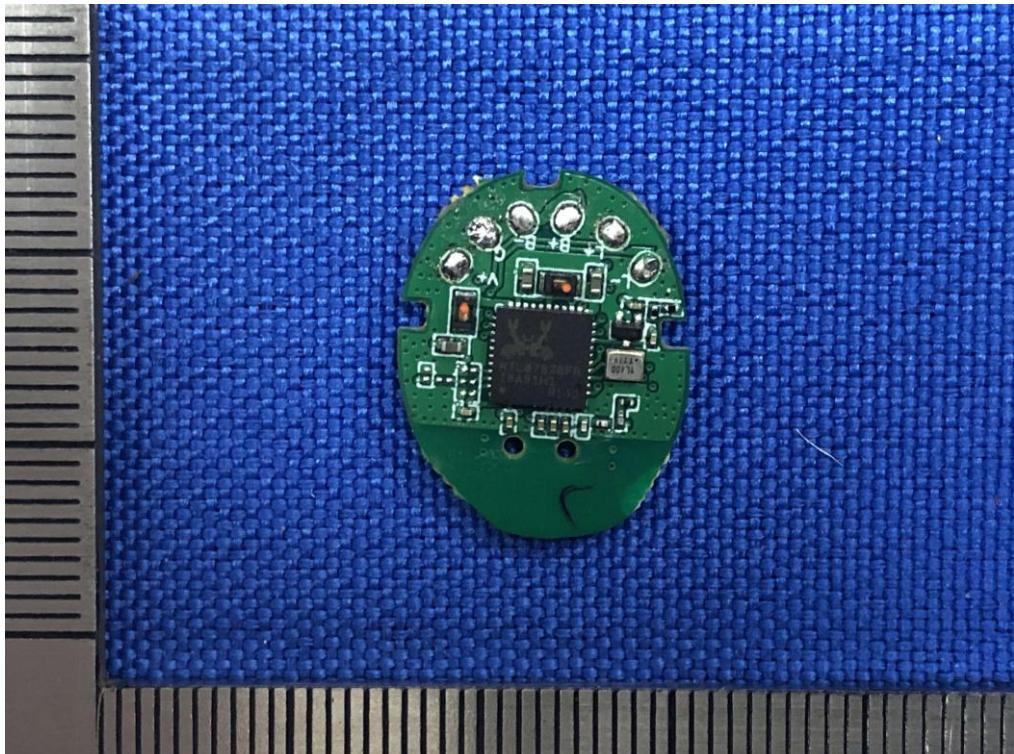


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## 10 Appendix

Refer to the following attachments.

\*\*\* End of Report \*\*\*

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