

## FCC Report (Bluetooth)

**Product Name** : ICON1 Wireless headphones  
**Trade mark** : PLAYBOY AUDIO  
**Model No.** : ICON1  
**FCC ID** : 2ATT6-ICON1  
**Report Number** : BLA-EMC-201905-A20-01  
**Date of sample receipt** : July 01, 2019  
**Date of Test** : July 01, 2019–July 08, 2019  
**Date of Issue** : July 20, 2019  
**Test standard** : FCC CFR Title 47 Part 15 Subpart C Section 15.247  
**Test result** : PASS

Prepared for:

**BAYBOY STUDIOS, LLC**  
**751 LAUREL STREET #338, SAN CARLOS, CALIFORNIA, 94070**

Prepared by:

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

**IOT Test Centre of BlueAsia**

**No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen,  
China**

**TEL: +86-755-28682673**

**FAX: +86-755-28682673**

Compiled by:

*Zason*

Review by:

*Sweet. way*

Approved by:

*Emen - li*

Date: July 20, 2019





## 2 Version

Version No.	Date	Description
00	July 20, 2019	Original

### 3 Contents

	Page
1 COVER PAGE .....	1
2 VERSION .....	2
3 CONTENTS .....	3
4 TEST SUMMARY .....	4
5 GENERAL INFORMATION .....	5
5.1 GENERAL DESCRIPTION OF EUT .....	5
5.2 TEST MODE .....	7
5.3 TEST FACILITY .....	7
5.4 TEST LOCATION .....	7
5.5 OTHER INFORMATION REQUESTED BY THE CUSTOMER .....	7
5.6 DESCRIPTION OF SUPPORT UNITS .....	7
6 TEST INSTRUMENTS LIST .....	8
7 TEST RESULTS AND MEASUREMENT DATA .....	10
7.1 ANTENNA REQUIREMENT .....	10
7.2 CONDUCTED EMISSIONS .....	11
7.3 CONDUCTED PEAK OUTPUT POWER .....	14
7.4 20DB EMISSION BANDWIDTH .....	18
7.5 CARRIER FREQUENCIES SEPARATION .....	22
7.6 HOPPING CHANNEL NUMBER .....	26
7.7 DWELL TIME .....	27
7.8 PSEUDORANDOM FREQUENCY HOPPING SEQUENCE .....	29
7.9 BAND EDGE .....	30
7.9.1 <i>Conducted Emission Method</i> .....	30
7.9.2 <i>Radiated Emission Method</i> .....	34
7.10 SPURIOUS EMISSION .....	36
7.10.1 <i>Conducted Emission Method</i> .....	36
7.10.2 <i>Radiated Emission Method</i> .....	38
8 TEST SETUP PHOTO .....	46
9 EUT CONSTRUCTIONAL DETAILS .....	48

## 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	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:	ICON1 Wireless headphones
Model No.:	ICON1
Test Model No.:	ICON1
<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.:	ICON130082019
Sample(s) Status	Engineer sample
Hardware:	V1.3
Software:	V2.2
Operation Frequency:	2402MHz-2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Antenna Type:	PCB Antenna
Antenna gain:	0.0dBi
Power supply:	DC 3.7V

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

## 5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
<p><i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i></p>	

## 5.3 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> <li>• <b>FCC — Designation No.: CN1252</b>  <i>Qianhai BlueAsia of Technical Services(Shenzhen) Co., Ltd</i> 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.</li> <li>• <b>ISED — CAB identifier No.: CN0028</b>  <i>Qianhai BlueAsia of Technical Services(Shenzhen) Co., Ltd</i> has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with CAB identifier CN0028</li> </ul>
---

## 5.4 Test Location

<p>All tests were performed at:</p> <p><i>All tests were performed at:</i>  <i>Qianhai BlueAsia of Technical Services(Shenzhen) Co., Ltd.</i>  <i>IOT Test Centre of BlueAsia</i>  <i>No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China</i>  <i>Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673</i>  <i>No tests were sub-contracted.</i></p>
--

## 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

## 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	05-24-2019	05-23-2020
7	EMI Test Receiver	Rohde & Schwarz	ESR7	101199	03-21-2019	03-20-2020
8	Controller	SKET	N/A	N/A	N/A	N/A
9	Vector Signal Generator	Agilent	E4438C	MY45092582	05-24-2019	05-23-2020
10	Signal Generator	Agilent	E8257D	MY44320250	05-24-2019	05-23-2020
11	Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
12	Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
13	Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A



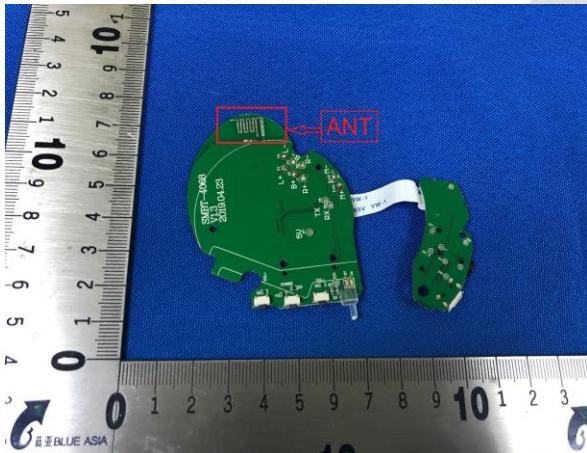
Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	EMI Test Receiver	Rohde & Schwarz	ESPI3	101082	06-10-2019	06-09-2020
2	LISN	CHASE	MN2050D	1447	12-18-2018	12-17-2019
3	LISN	Rohde & Schwarz	ENV216	3560.6550.15	07-19-2018	07-18-2019
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
6	Coaxial Cable	BlueAsia	BLA-XC-05	N/A	N/A	N/A

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	05-24-2019	05-23-2020
2	Spectrum analyzer	Rohde & Schwarz	FSP40	100817	05-24-2019	05-23-2020
3	Vector Signal Generator	Agilent	E4438C	MY45092582	05-24-2019	05-23-2020
4	Signal Generator	Agilent	E8257D	MY44320250	05-24-2019	05-23-2020
5	Power Sensor	D.A.R.E	RPR3006W	17I00015SNO27	05-24-2019	05-23-2020
6	Power Sensor	D.A.R.E	RPR3006W	17I00015SNO28	05-24-2019	05-23-2020
7	DC Power Supply	LODESTAR	LP305DE	N/A	07-19-2018	07-18-2019
8	Temperature Humidity Chamber	Mingle	TH101B	N/A	07-19-2018	07-18-2019

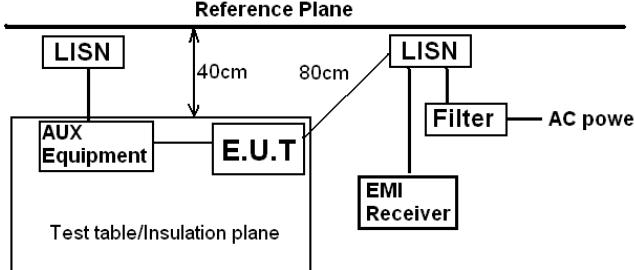


## 7 Test results and Measurement Data

### 7.1 Antenna requirement

<b>Standard requirement:</b>	FCC Part15 C Section 15.203 /247(c)
<p><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.</p> <p><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.</p>	
<p><b>E.U.T Antenna:</b></p> <p><i>The antenna is PCB antenna, the best case gain of the antenna is 0.0dBi</i></p> 	

## 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>			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															
	<p>* Decreases with the logarithm of the frequency.</p>																
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>1. 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>2. 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>3. 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:

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

IOT Test Centre of BlueAsia,

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673



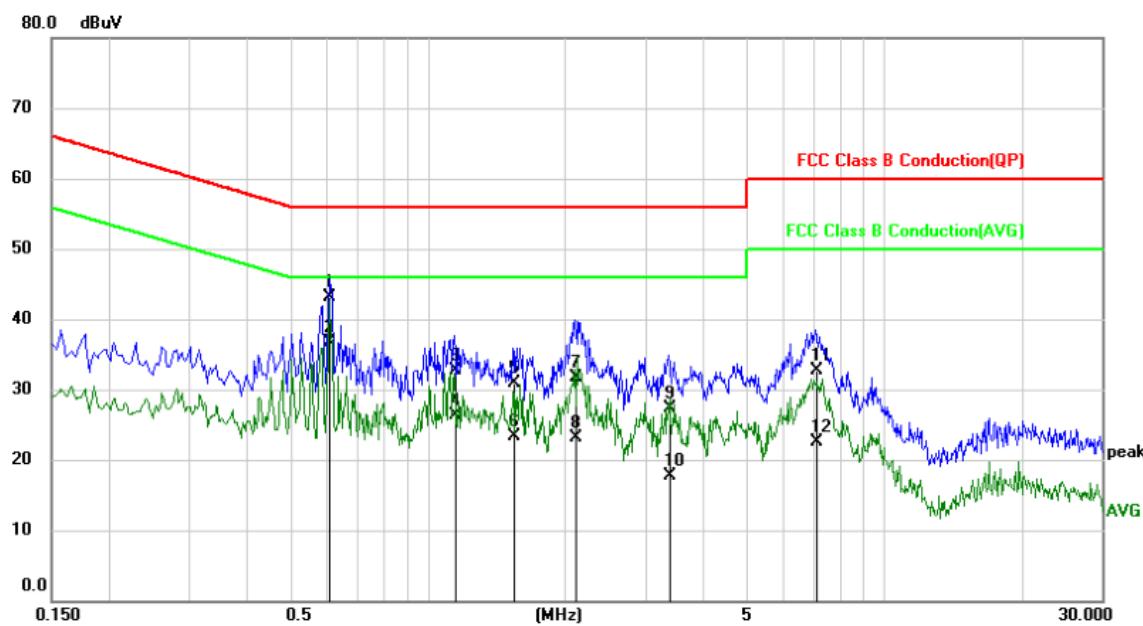
蓝亚 BLUE ASIA

Report No. : BLA-EMC-201905-A20-01

Page 12 of 54

Line:

<b>EUT:</b>	ICON1 Wireless headphones	<b>Probe:</b>	L1
<b>Model:</b>	ICON1	<b>Power Source:</b>	AC120V/60Hz
<b>Mode:</b>	BT mode	<b>Test by:</b>	Eason
<b>Temp./Hum.(%H):</b> 26°C/60%RH			



No. Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over	Detector
		Level dBuV	Factor dB	ment dBuV			
1	0.6100	33.28	9.73	43.01	56.00	-12.99	QP
2 *	0.6100	27.05	9.73	36.78	46.00	-9.22	AVG
3	1.1420	22.90	9.83	32.73	56.00	-23.27	QP
4	1.1420	16.47	9.83	26.30	46.00	-19.70	AVG
5	1.5420	21.00	9.84	30.84	56.00	-25.16	QP
6	1.5420	13.43	9.84	23.27	46.00	-22.73	AVG
7	2.1099	21.96	9.82	31.78	56.00	-24.22	QP
8	2.1099	13.22	9.82	23.04	46.00	-22.96	AVG
9	3.3780	17.55	9.85	27.40	56.00	-28.60	QP
10	3.3780	7.92	9.85	17.77	46.00	-28.23	AVG
11	7.0780	22.79	9.86	32.65	60.00	-27.35	QP
12	7.0780	12.64	9.86	22.50	50.00	-27.50	AVG

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

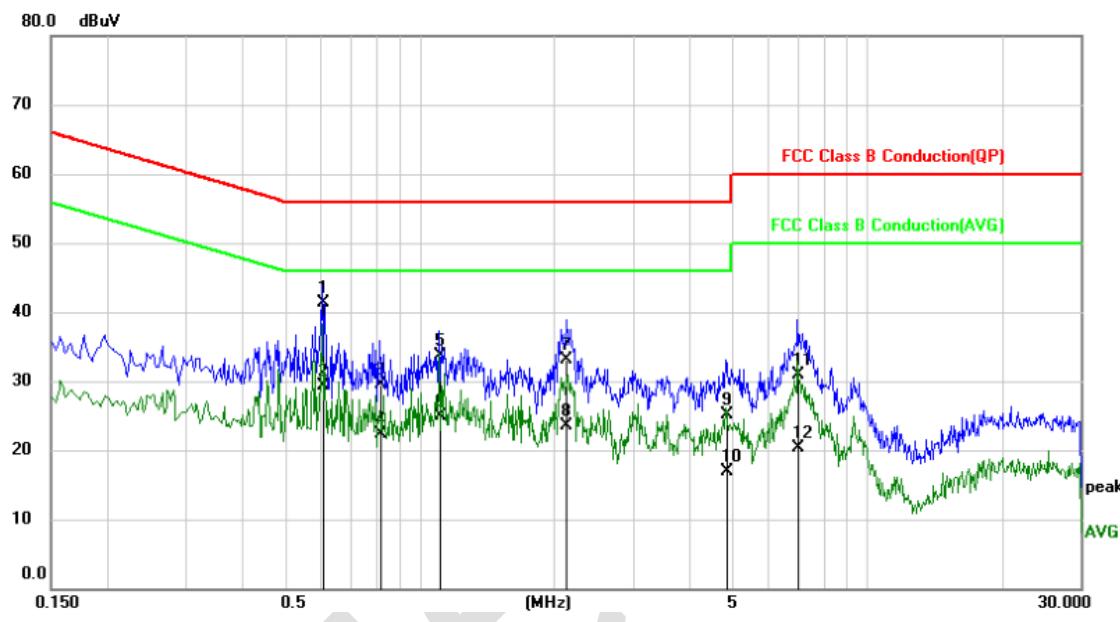
IOT Test Centre of BlueAsia,

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

**Neutral:**

<b>EUT:</b>	ICON1 Wireless headphones	<b>Probe:</b>	N
<b>Model:</b>	ICON1	<b>Power Source:</b>	AC120V/60Hz
<b>Mode:</b>	BT mode	<b>Test by:</b>	Eason
<b>Temp./Hum.(%H):</b> 26°C/60%RH			



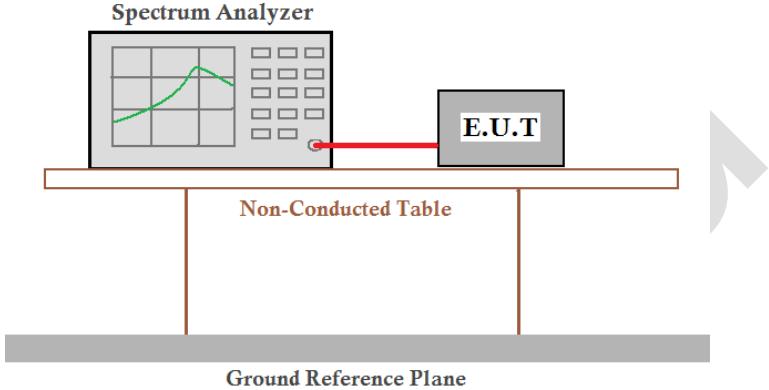
No. Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector
		dBuV	dB	dBuV	dBuV	dB	
1 *	0.6060	31.61	9.74	41.35	56.00	-14.65	QP
2	0.6060	19.52	9.74	29.26	46.00	-16.74	AVG
3	0.8139	19.67	9.74	29.41	56.00	-26.59	QP
4	0.8139	12.48	9.74	22.22	46.00	-23.78	AVG
5	1.1100	23.85	9.81	33.66	56.00	-22.34	QP
6	1.1100	15.12	9.81	24.93	46.00	-21.07	AVG
7	2.1260	23.31	9.86	33.17	56.00	-22.83	QP
8	2.1260	13.59	9.86	23.45	46.00	-22.55	AVG
9	4.8340	15.15	9.90	25.05	56.00	-30.95	QP
10	4.8340	6.91	9.90	16.81	46.00	-29.19	AVG
11	6.9980	21.03	9.84	30.87	60.00	-29.13	QP
12	6.9980	10.47	9.84	20.31	50.00	-29.69	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
4. Correct Factor = LISN Factor + Cable Loss

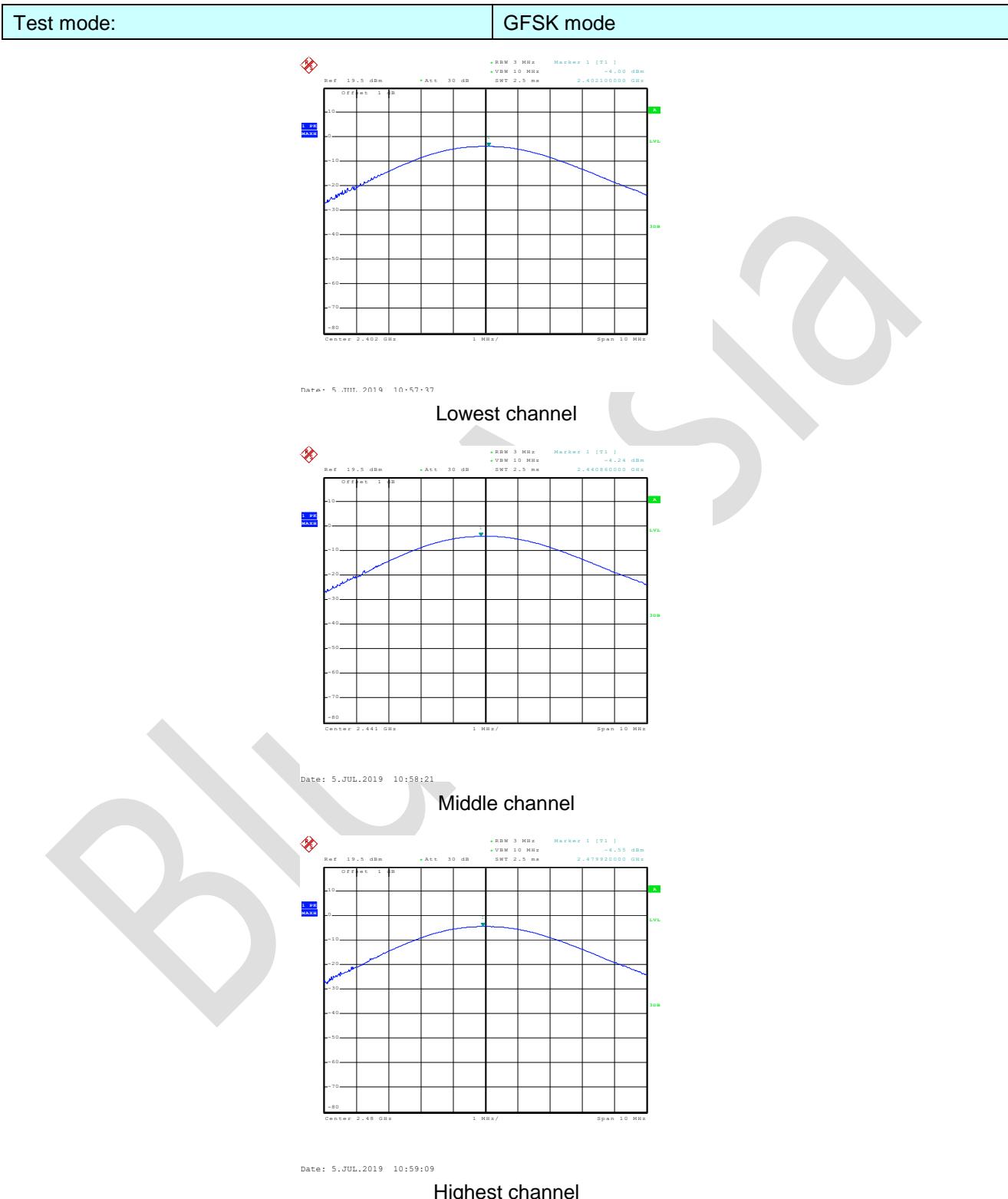
### 7.3 Conducted Peak Output Power

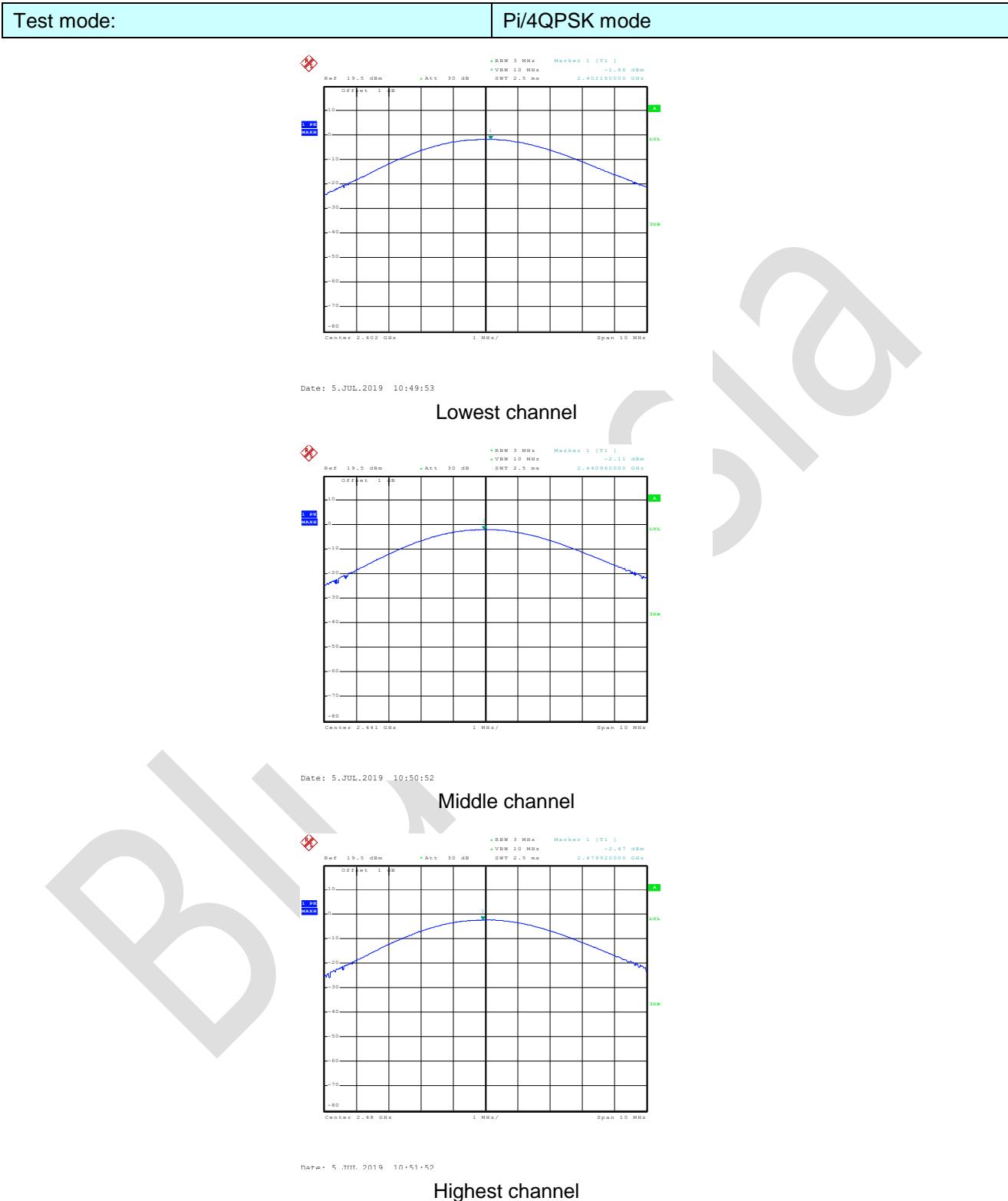
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)		
Test Method:	ANSI C63.10:2013		
Limit:	21dBm		
Test setup:			
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

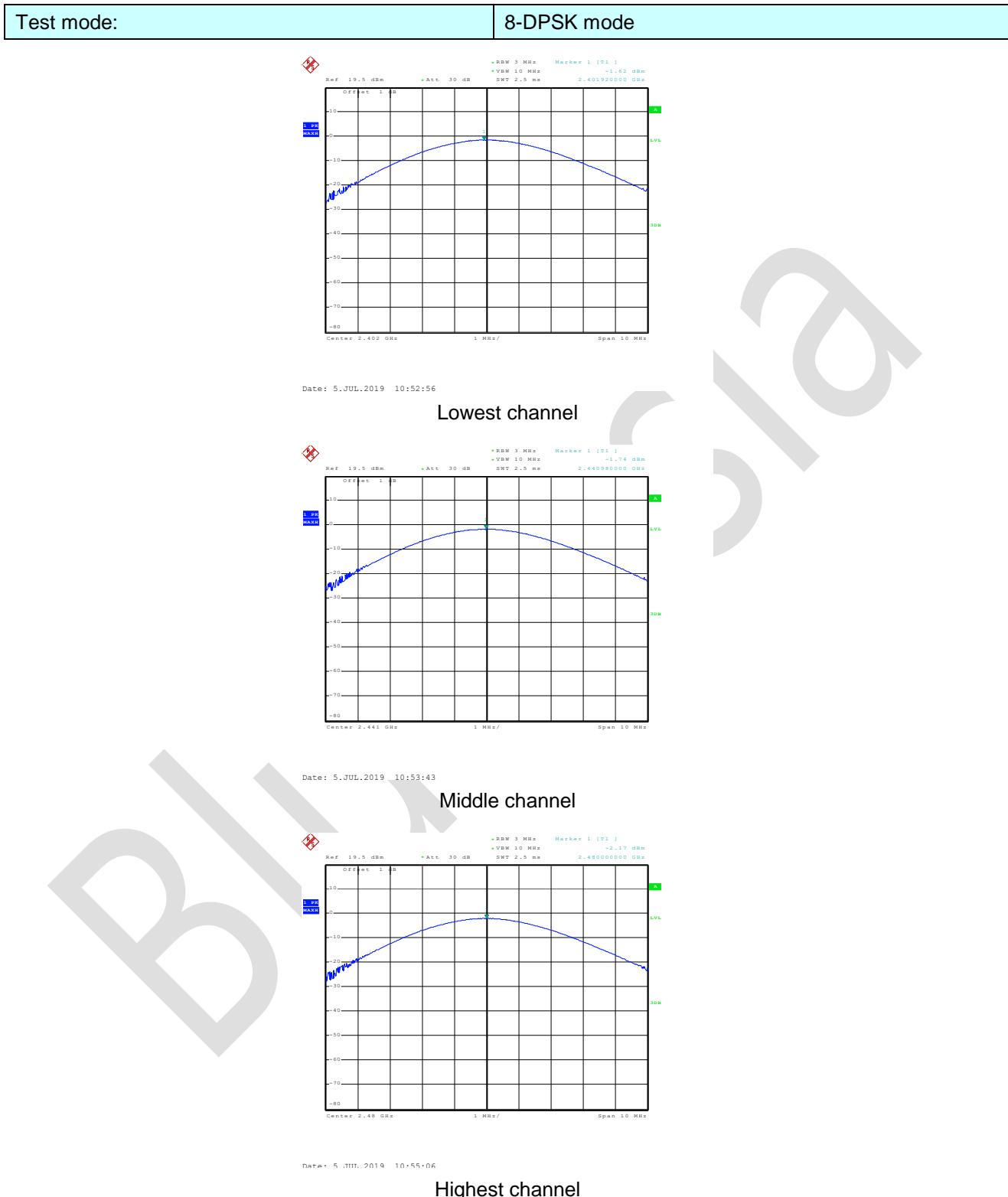
#### Measurement Data

Mode	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
GFSK	Lowest	-4.00	21.00	Pass
	Middle	-4.24		
	Highest	-4.55		
Pi/4QPSK	Lowest	-1.86	21.00	Pass
	Middle	-2.11		
	Highest	-2.47		
8-DPSK	Lowest	-1.62	21.00	Pass
	Middle	-1.74		
	Highest	-2.17		

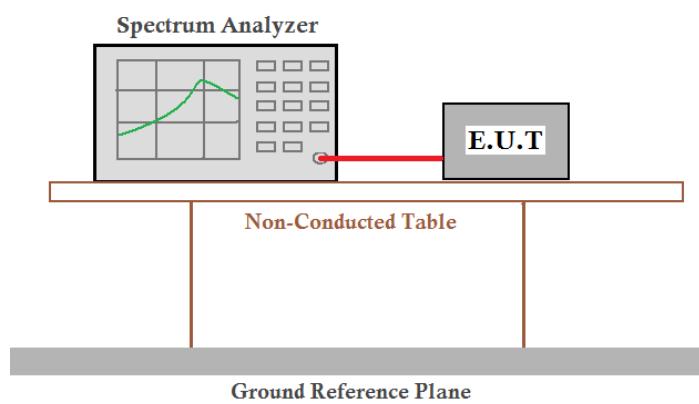
**Test plot as follows:**







## 7.4 20dB Emission Bandwidth

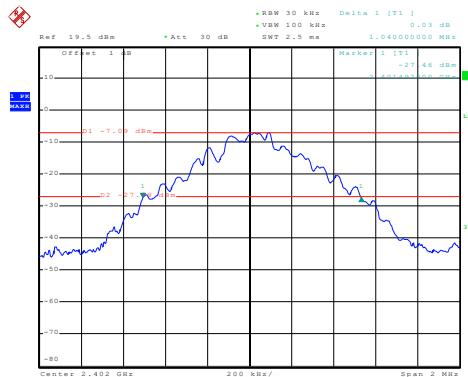
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013
Limit:	N/A
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

### Measurement Data

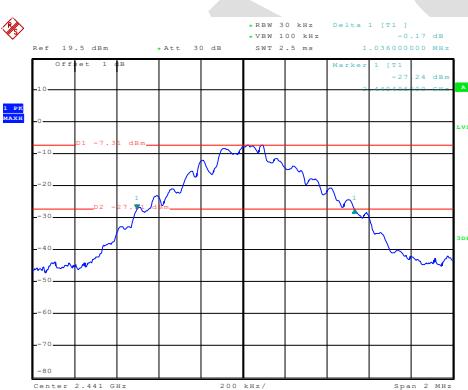
Mode	Test channel	20dB Emission Bandwidth (MHz)	Result
GFSK	Lowest	1.040	Pass
	Middle	1.036	
	Highest	1.040	
Pi/4QPSK	Lowest	1.362	Pass
	Middle	1.362	
	Highest	1.362	
8-DPSK	Lowest	1.356	Pass
	Middle	1.356	
	Highest	1.356	

**Test plot as follows:**

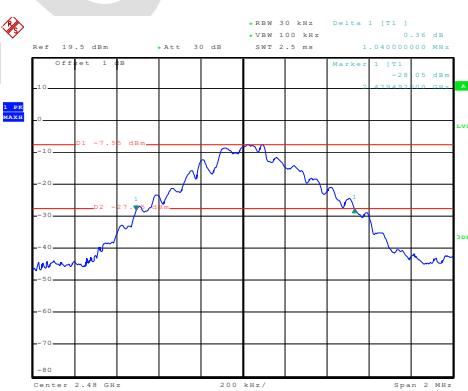
Test mode:	GFSK mode
------------	-----------



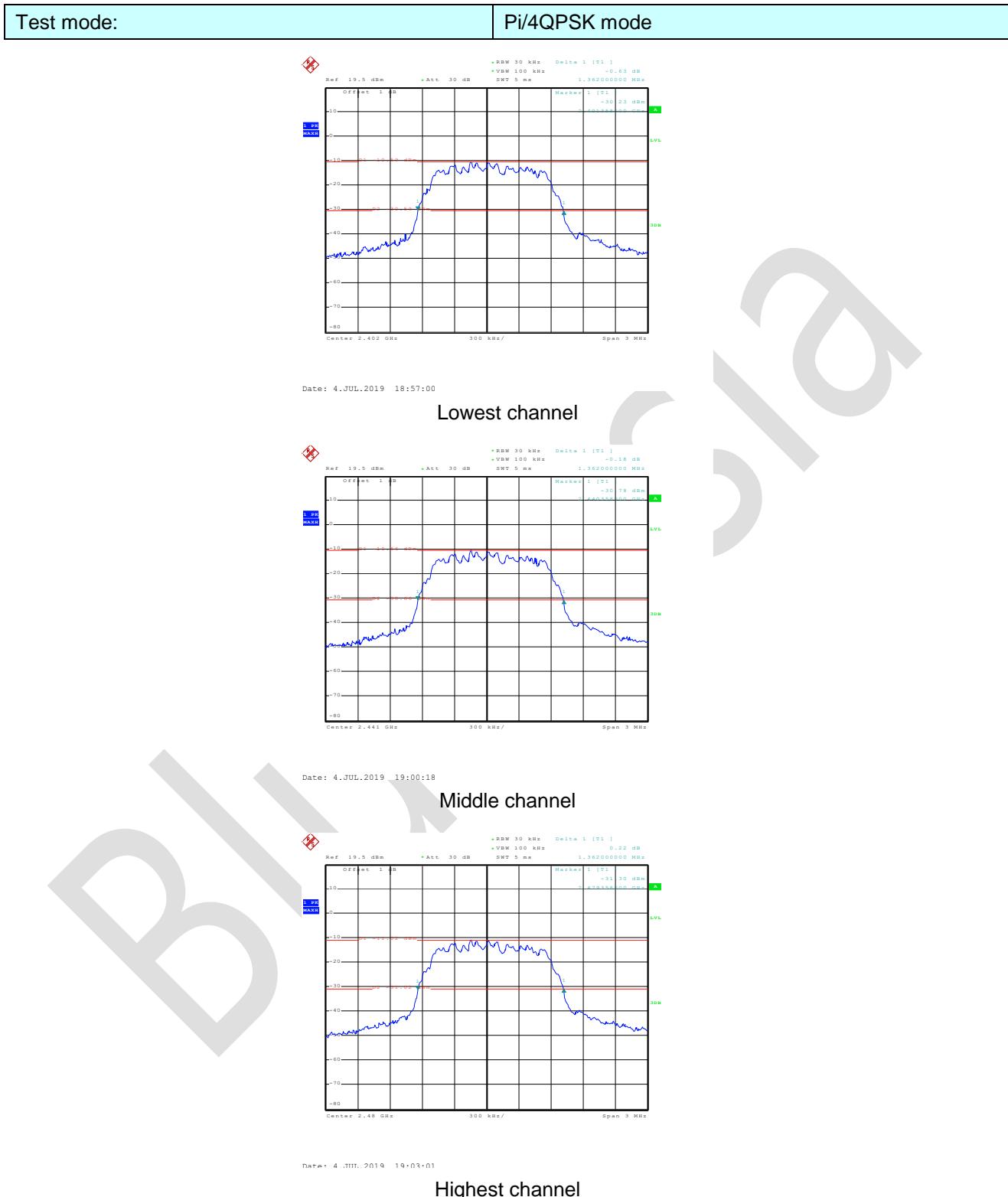
Date: 4.JUL.2019 19:18:59  
Lowest channel

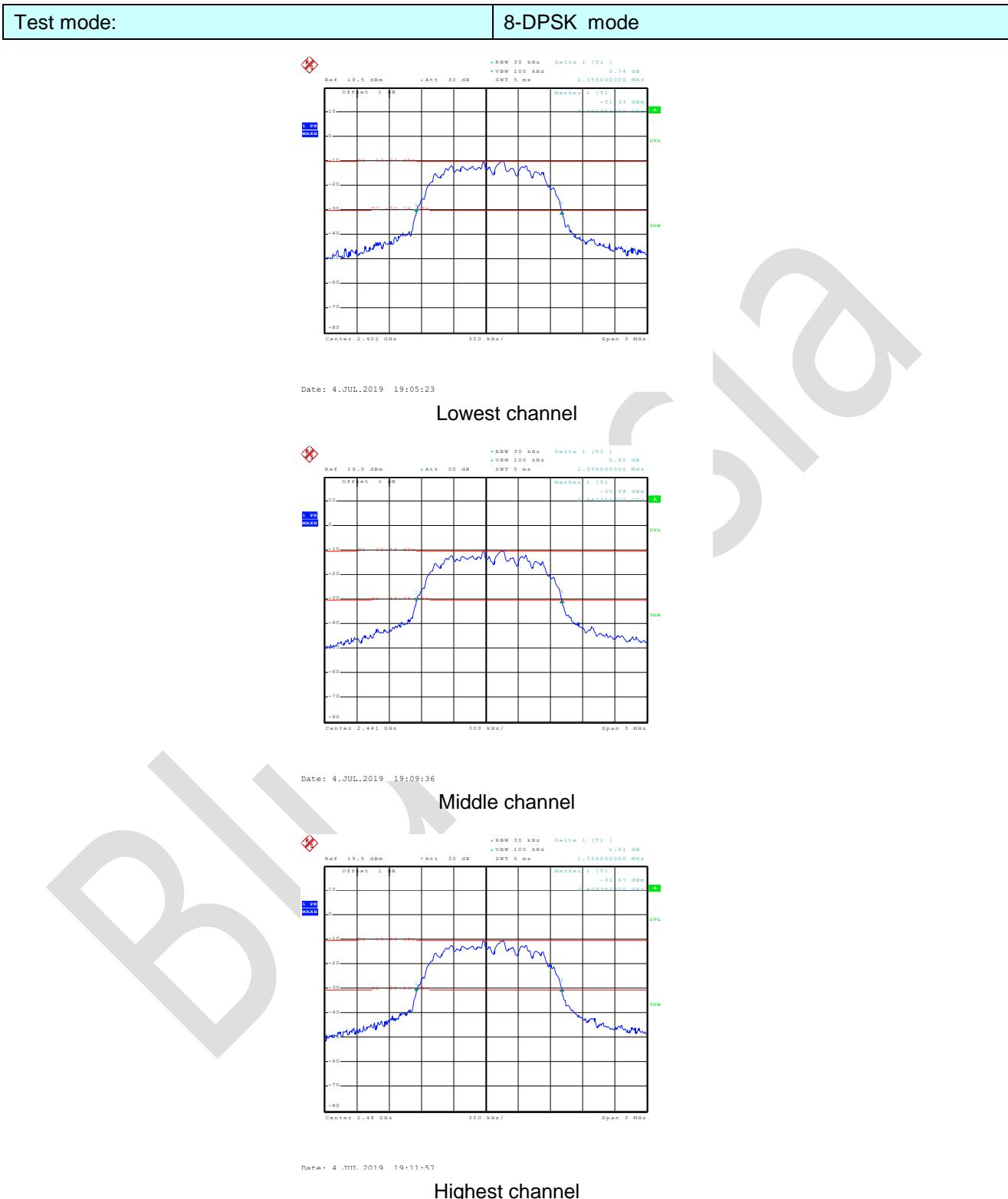


Date: 4.JUL.2019 19:20:45  
Middle channel

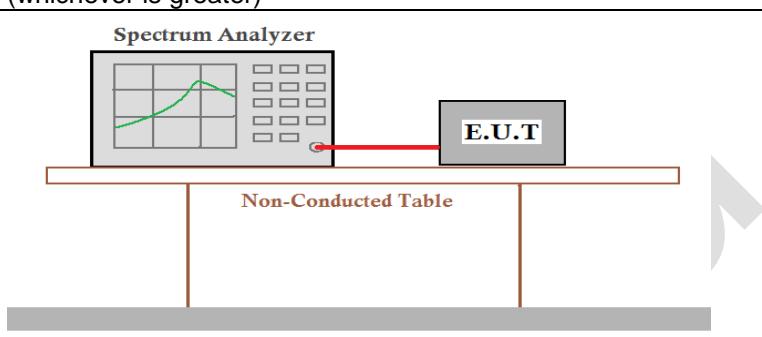


Date: 4.JUL.2019 19:23:11  
Highest channel





## 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 & 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

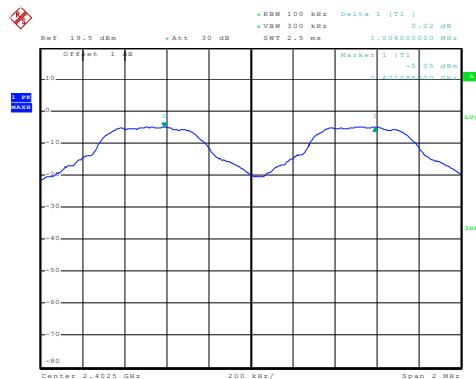
Mode	Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
GFSK	Lowest	1004	693.33	Pass
	Middle	1000	693.33	Pass
	Highest	1000	693.33	Pass
Pi/4QPSK	Lowest	1012	908.00	Pass
	Middle	1004	908.00	Pass
	Highest	1000	908.00	Pass
8-DPSK	Lowest	1000	904.00	Pass
	Middle	1008	904.00	Pass
	Highest	1008	904.00	Pass

Note: According to section 7.4

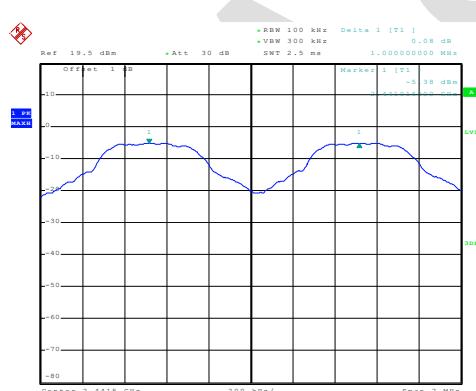
Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	1040	693.33
Pi/4QPSK	1362	908.00
8-DPSK	1356	904.00

**Test plot as follows:**

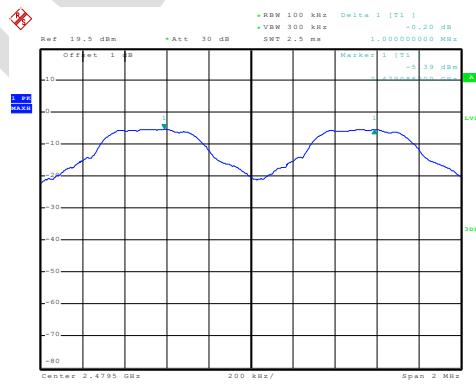
Modulation mode:	GFSK
------------------	------



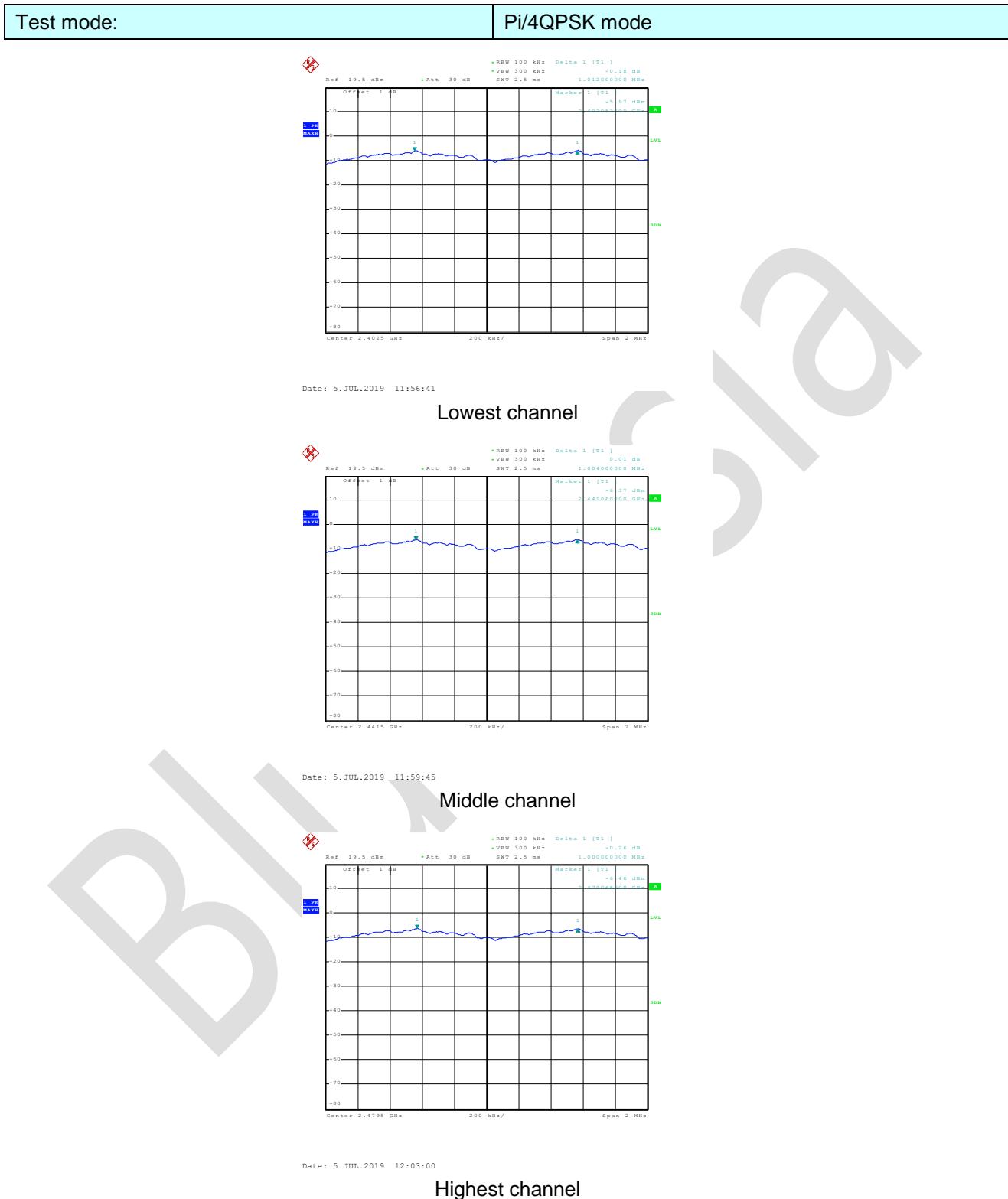
Lowest channel

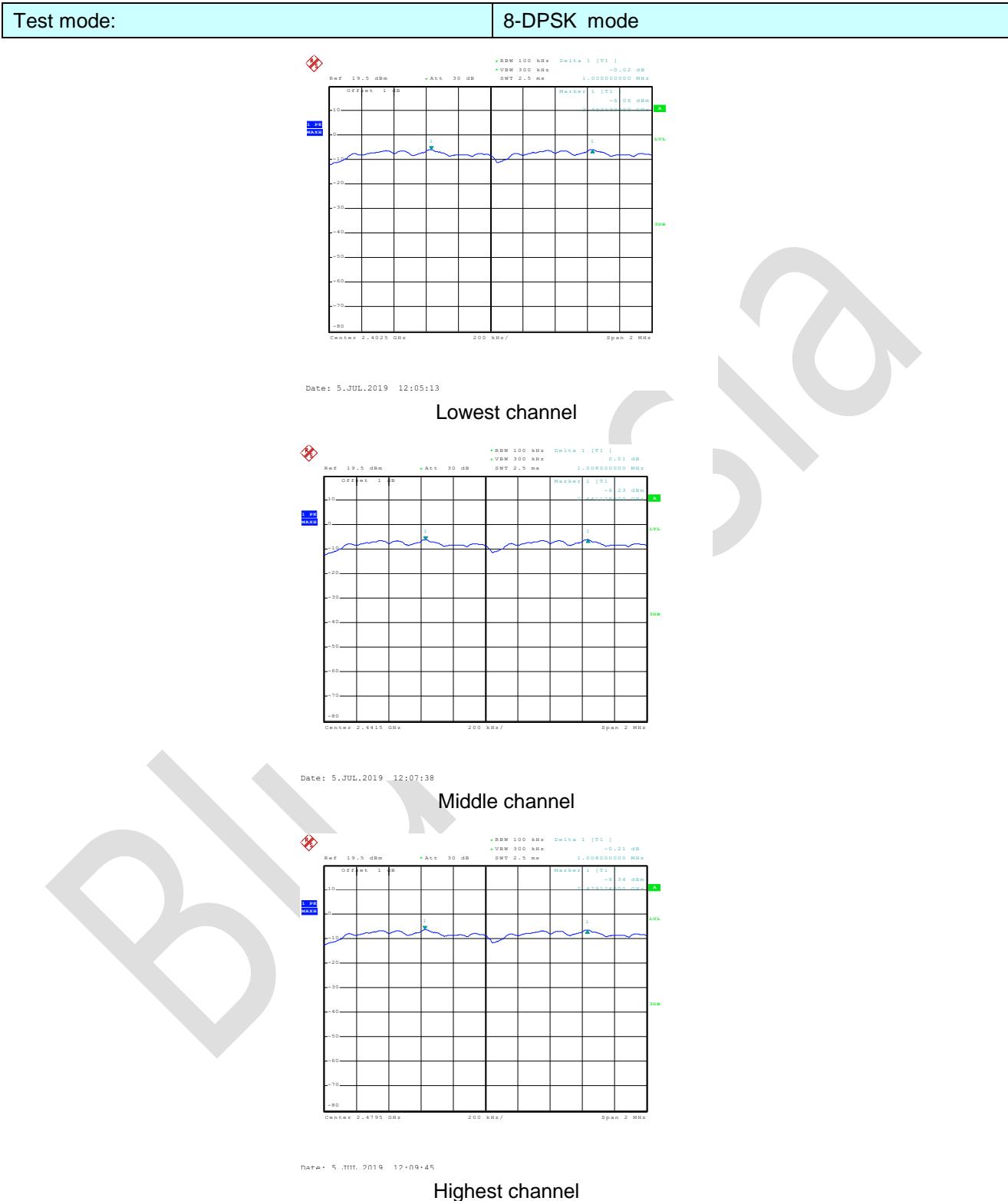


Middle channel

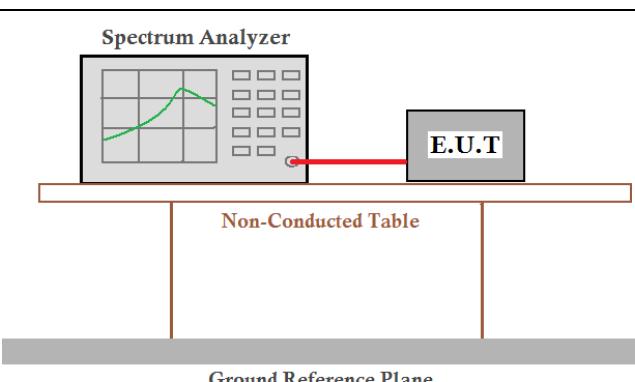


Highest channel



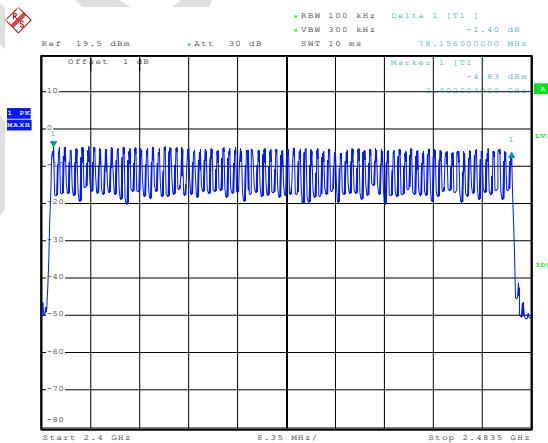


## 7.6 Hopping Channel Number

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
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

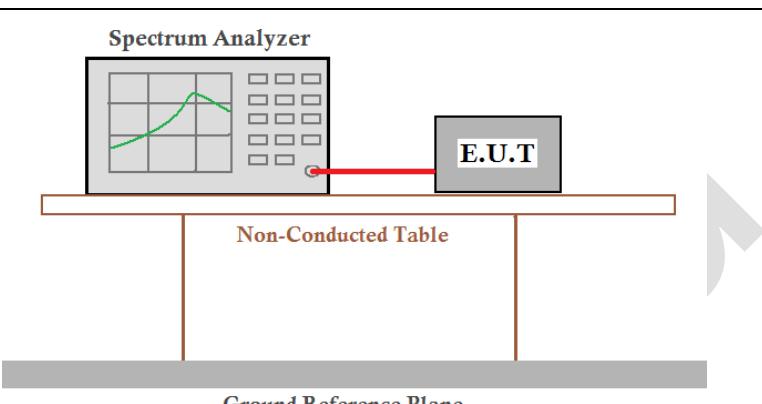
### Measurement Data:

Mode	Hopping channel numbers	Limit	Result
GFSK	79	15	Pass
Pi/4QPSK	79	15	Pass
8-DPSK	79	15	Pass



Date: 5.JUL.2019 13:28:13

## 7.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
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

Frequency	Packet	Dwell time(ms)	Limit(ms)	Result
2441MHz	DH1/2-DH1/3-DH1	124.80	400	Pass
2441MHz	DH3/2-DH3/3-DH3	270.72	400	Pass
2441MHz	DH5/2-DH5/3-DH5	316.59	400	Pass

The test period:  $T = 0.4 \text{ Second}/\text{Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

Test channel: 2441MHz as blow

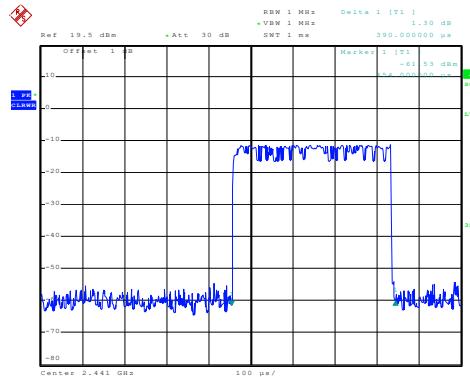
DH1/2-DH1/3-DH1 time slot=0.390(ms)\*(1600/ (2\*79))\*31.6=124.80ms

DH3/2-DH3/3-DH3 time slot=1.692(ms)\*(1600/ (4\*79))\*31.6=270.72ms

DH5/2-DH5/3-DH5 time slot=2.968(ms)\*(1600/ (6\*79))\*31.6=316.59ms

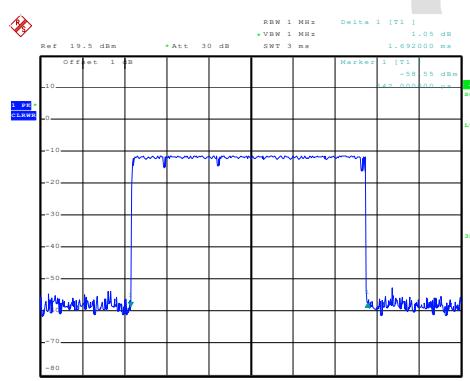
Test plot as follows:

Test channel:	2441MHz
---------------	---------



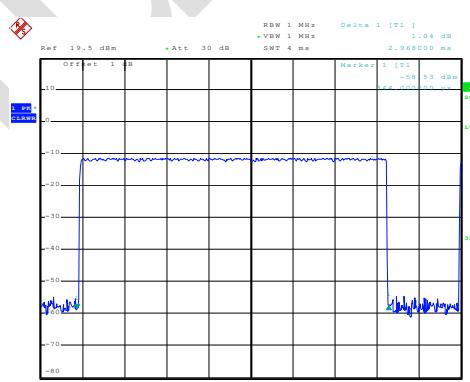
Date: 5.JUL.2019 13:18:27

DH1/2-DH1/3-DH1



Date: 5. juli 2019 13:20:21

DH3/2-DH3/3-DH3

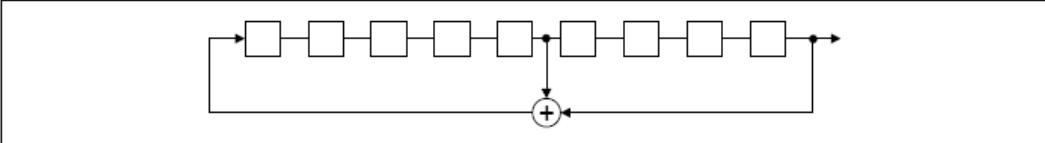


Date: 5.JUL.2019 13:23:33

## DH5/2-DH5/3-DH5

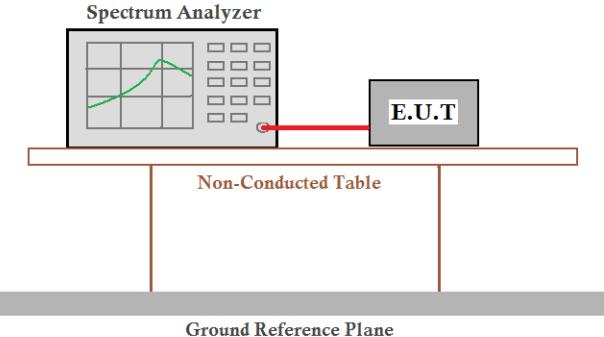


## 7.8 Pseudorandom Frequency Hopping Sequence

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

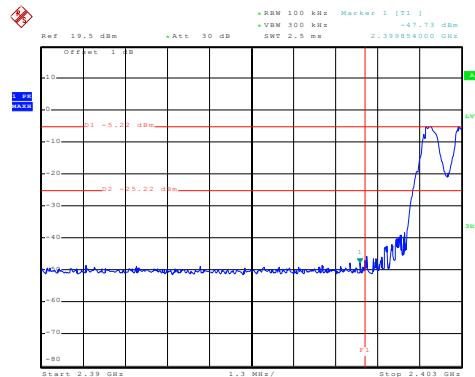
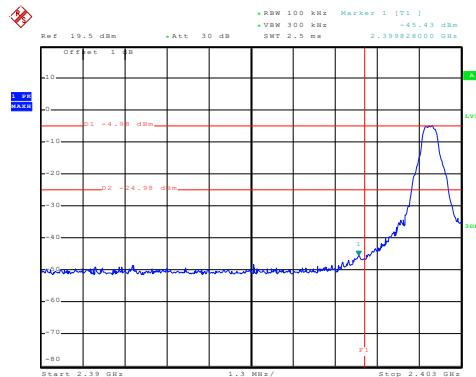
### 7.9.1 Conducted Emission Method

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

Test plot as follows:

**GFSK Mode:**

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



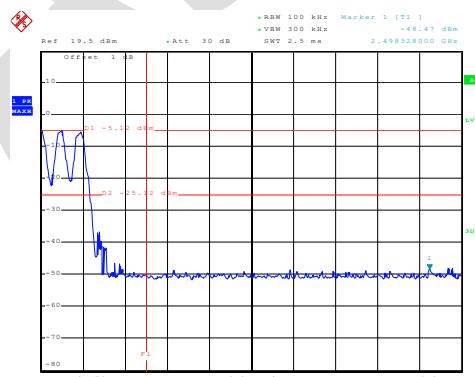
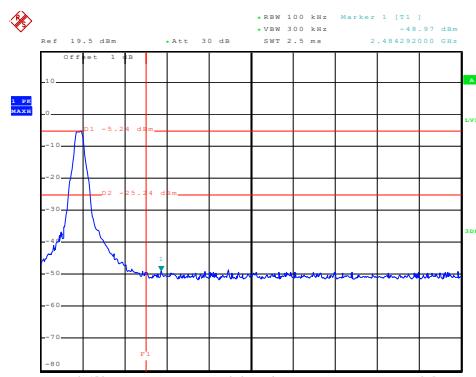
Date: 5.JUL.2019 11:27:00

No-hopping mode

Date: 5.JUL.2019 11:50:28

Hopping mode

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



Date: 5.JUL.2019 11:29:21

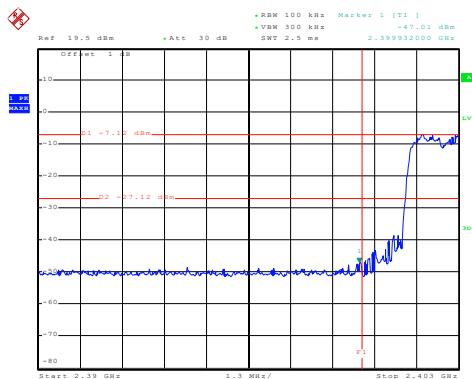
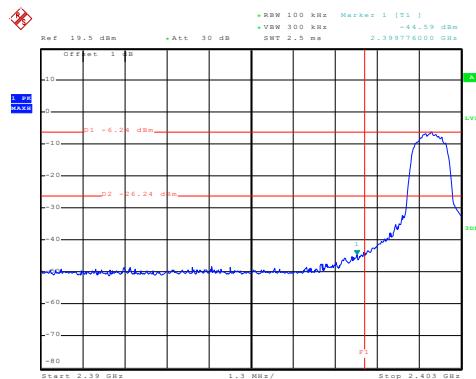
No-hopping mode

Date: 5.JUL.2019 11:52:47

Hopping mode

**Pi/4QPSK Mode:**

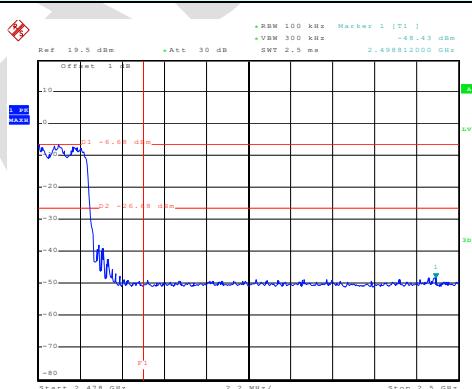
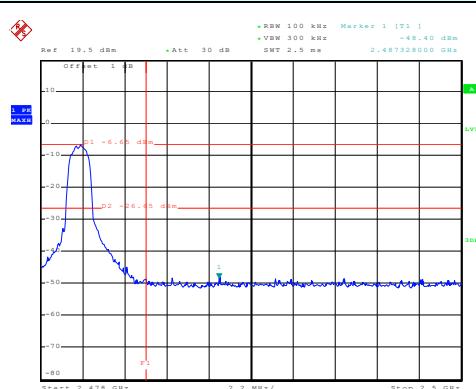
Test channel:	Lowest channel
---------------	----------------



Date: 5.JUL.2019 11:16:26

**Test channel:**

**Highest channel**



Date: 5.JUL.2019 11:20:12

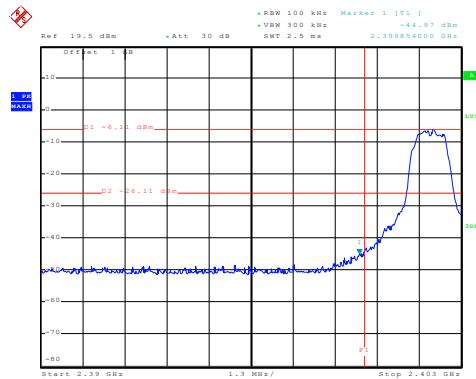
No-hopping mode

Date: 5.JUL.2019 11:38:59

Hopping mode

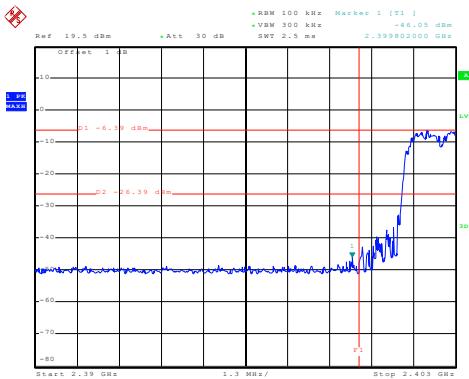
**8-DPSK Mode:**

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



Date: 5.JUL.2019 11:22:28

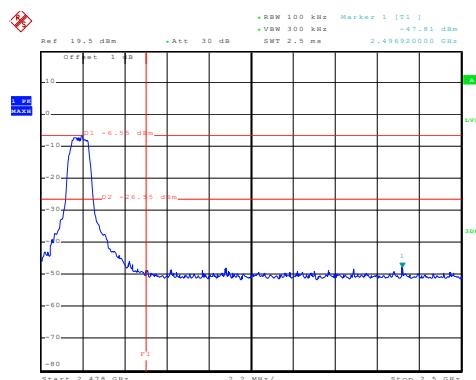
No-hopping mode



Date: 5.JUL.2019 11:47:06

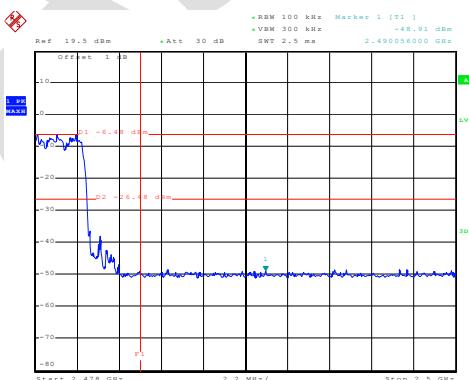
Hopping mode

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



Date: 5.JUL.2019 11:24:51

No-hopping mode



Date: 5.JUL.2019 11:46:39

Hopping mode



### 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>1. 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>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><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></ol>										
Test Instruments:	Refer to section 6.0 for details										
Test mode:	Refer to section 5.2 for details										
Test results:	Pass										



## Remark:

1. During the test, pre-scan the GFSK, Pi/4QPSK, 8-DPSK modulation, and found the 8-DPSK modulation which 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	44.06	-14.56	29.50	74.00	-44.50	Horizontal
2390.00	47.77	-14.19	33.58	74.00	-40.42	Horizontal
2310.00	45.15	-14.85	30.30	74.00	-43.70	Vertical
2390.00	48.02	-14.52	33.50	74.00	-40.50	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	33.05	-14.56	18.49	54.00	-35.51	Horizontal
2390.00	35.02	-14.19	20.83	54.00	-33.17	Horizontal
2310.00	33.19	-14.85	18.34	54.00	-35.68	Vertical
2390.00	33.78	-14.52	19.26	54.00	-34.74	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	60.23	-13.66	46.57	74.00	-27.43	Horizontal
2500.00	43.95	-13.57	30.38	74.00	-43.62	Horizontal
2483.50	62.47	-14.05	48.42	74.00	-25.58	Vertical
2500.00	54.78	-13.97	40.81	74.00	-33.19	Vertical

## Average value:

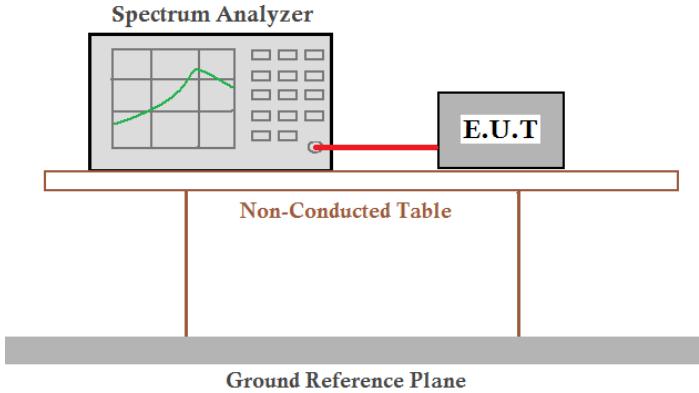
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	42.05	-13.66	28.39	54.00	-25.61	Horizontal
2500.00	32.02	-13.57	18.45	54.00	-35.55	Horizontal
2483.50	42.98	-14.05	28.93	54.00	-25.07	Vertical
2500.00	37.53	-13.97	23.56	54.00	-30.44	Vertical

## Remark:

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

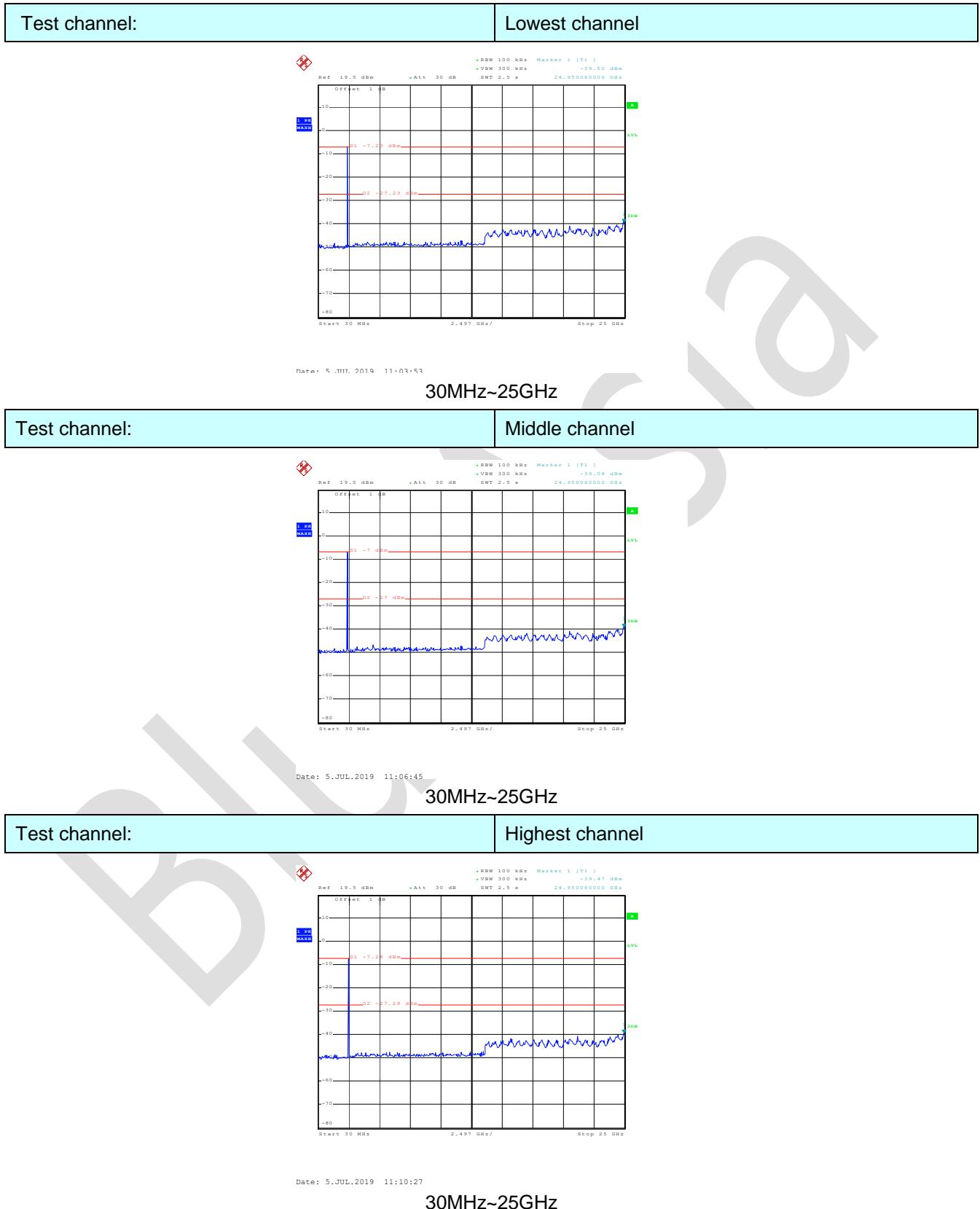
## 7.10 Spurious Emission

### 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:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

#### Remark:

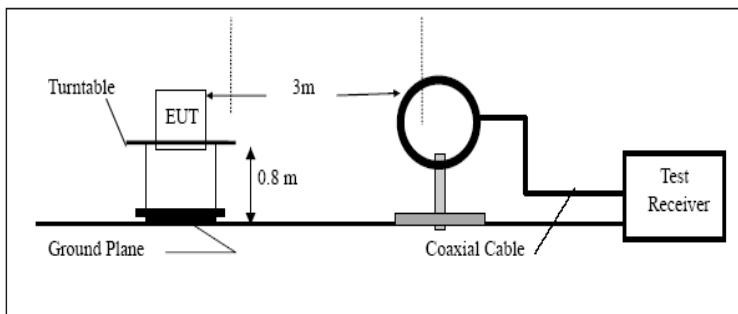
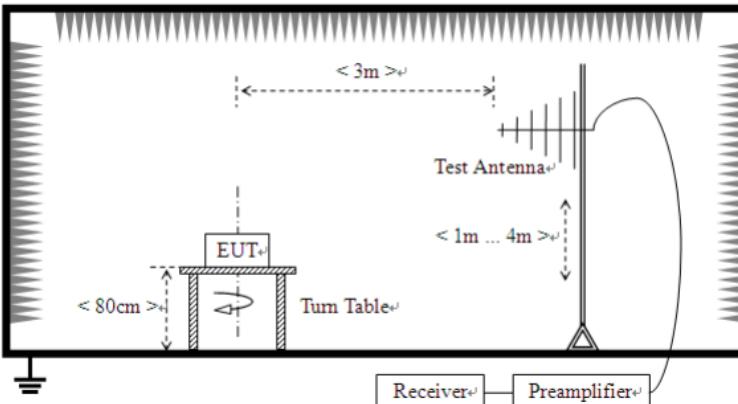
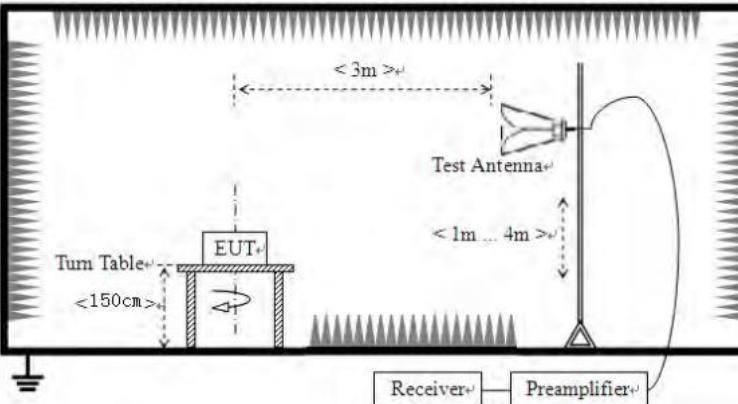
During the test, pre-scan the GFSK, Pi/4QPSK, 8-DPSK modulation, and found the 8-DPSK modulation which it is worse case.



### 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	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
	Above 1GHz	Peak	1MHz	10Hz	Average
Limit: (Spurious Emissions)	Frequency	Limit (uV/m)	Value	Measurement Distance 3m	
	0.009MHz-0.490MHz	2400/F(KHz)	QP		
	0.490MHz-1.705MHz	24000/F(KHz)	QP		
	1.705MHz-30MHz	30	QP		
	30MHz-88MHz	100	QP		
	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> 
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>

	<ol 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> </ol>
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.



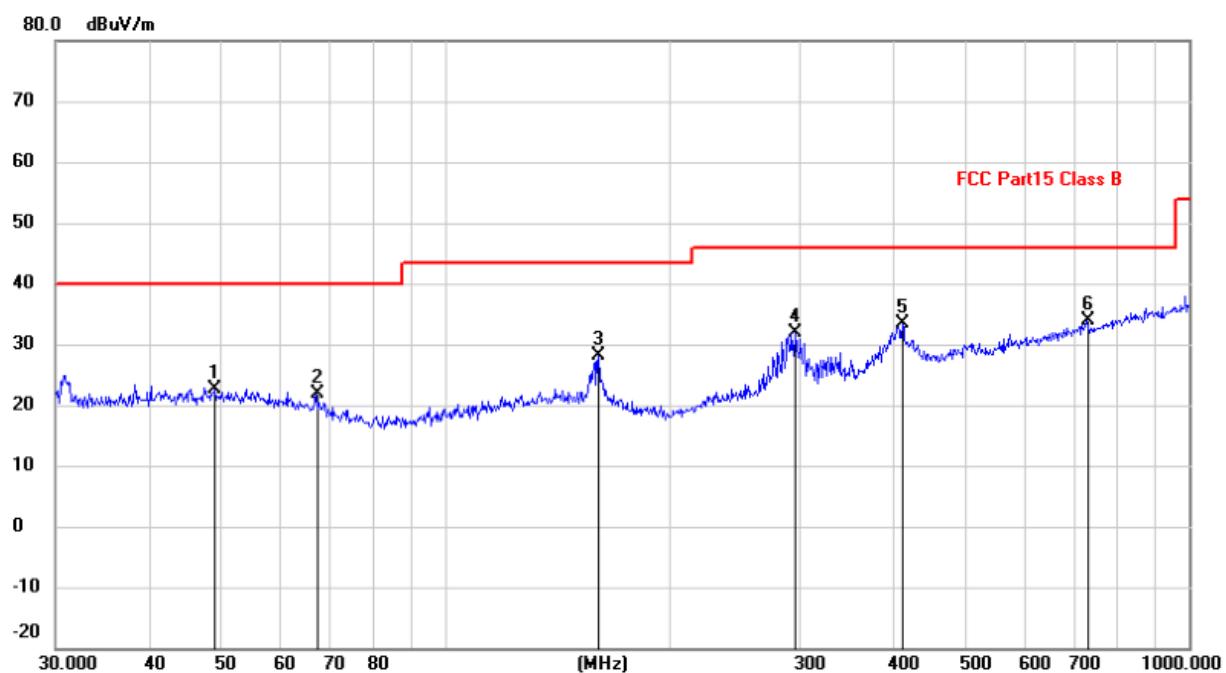
蓝亚 BLUE ASIA

Report No. : BLA-EMC-201905-A20-01

Page 41 of 54

■ Below 1GHz

<b>EUT:</b>	ICON1 Wireless headphones	<b>Polarization:</b>	Horizontal
<b>Model:</b>	ICON1	<b>Power Source:</b>	AC120V/60Hz
<b>Mode:</b>	BT mode	<b>Test by:</b>	Eason
<b>Temp./Hum.(%H):</b> 26°C/60%RH			



No.	Mk.	Freq.	Reading	Correct Factor	Measure-	Limit	Over
			Level		ment		
1		49.1865	8.66	13.95	22.61	40.00	-17.39 QP
2		67.2022	10.52	11.39	21.91	40.00	-18.09 QP
3		160.9089	15.23	12.92	28.15	43.50	-15.35 QP
4		295.1469	18.52	13.34	31.86	46.00	-14.14 QP
5		411.8240	16.56	16.78	33.34	46.00	-12.66 QP
6	*	729.3583	11.00	22.87	33.87	46.00	-12.13 QP

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

IOT Test Centre of BlueAsia,

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

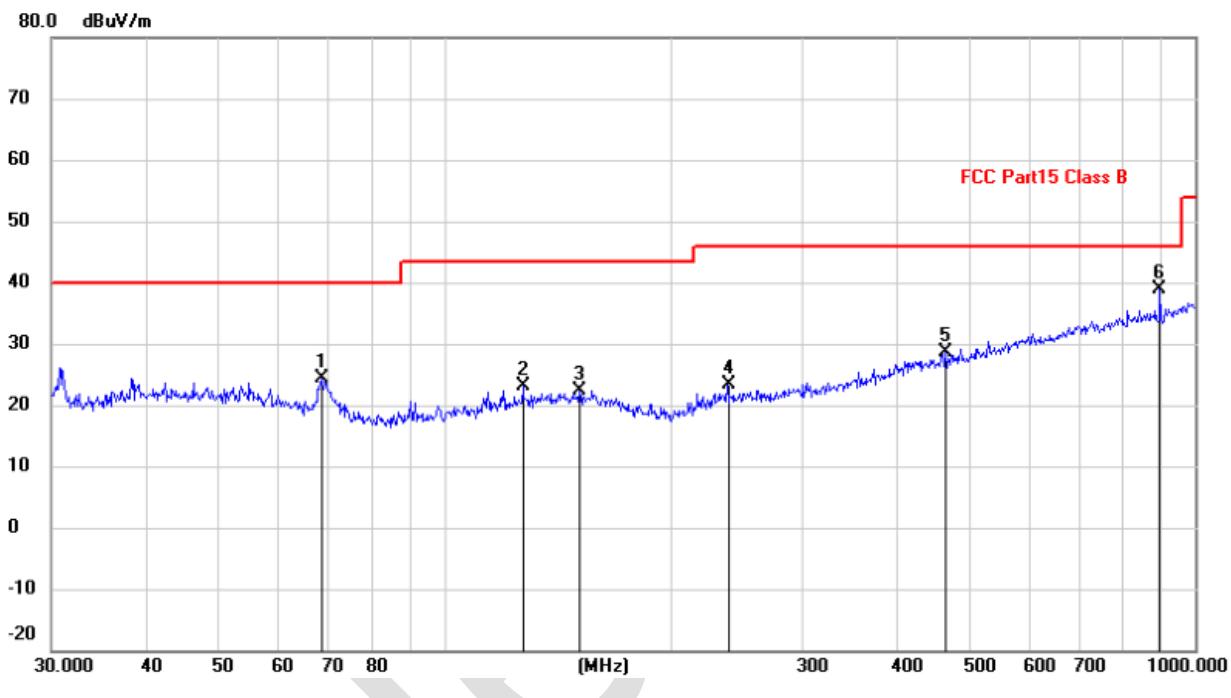


蓝亚 BLUE ASIA

Report No. : BLA-EMC-201905-A20-01

Page 42 of 54

<b>EUT:</b>	ICON1 Wireless headphones	<b>Polarization:</b>	Vertical
<b>Model:</b>	ICON1	<b>Power Source:</b>	AC120V/60Hz
<b>Mode:</b>	BT mode	<b>Test by:</b>	Eason
<b>Temp./Hum.(%H):</b> 26°C/60%RH			



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		68.6310	13.21	11.09	24.30	40.00	-15.70	QP
2		127.2176	10.45	12.62	23.07	43.50	-20.43	QP
3		151.5972	9.43	13.03	22.46	43.50	-21.04	QP
4		238.3102	10.77	12.60	23.37	46.00	-22.63	QP
5		465.5994	10.59	18.05	28.64	46.00	-17.36	QP
6	*	896.9965	13.79	25.02	38.81	46.00	-7.19	QP

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

IOT Test Centre of BlueAsia,

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

**■ 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	51.09	-7.43	43.66	74.00	-30.34	Vertical
7206.00	59.42	-2.42	57.00	74.00	-17.00	Vertical
9608.00	60.35	-2.38	57.97	74.00	-16.03	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	55.04	-7.43	47.61	74.00	-26.39	Horizontal
7206.00	58.59	-2.42	56.17	74.00	-17.83	Horizontal
9608.00	59.61	-2.38	57.23	74.00	-16.77	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	44.36	-7.43	36.93	54.00	-17.07	Vertical
7206.00	44.82	-2.42	42.40	54.00	-11.60	Vertical
9608.00	45.53	-2.38	43.15	54.00	-10.85	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	45.59	-7.43	38.16	54.00	-15.84	Horizontal
7206.00	46.67	-2.42	44.25	54.00	-9.75	Horizontal
9608.00	44.35	-2.38	41.97	54.00	-12.03	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*			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.

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	49.03	-7.49	41.54	74.00	-32.46	Vertical
7323.00	57.14	-2.40	54.74	74.00	-19.26	Vertical
9764.00	58.86	-2.38	56.48	74.00	-17.52	Vertical
12205.00	*			74.00		Vertical
14646.00	*			74.00		Vertical
4882.00	47.16	-7.49	39.67	74.00	-34.44	Horizontal
7323.00	54.35	-2.40	51.95	74.00	-22.06	Horizontal
9764.00	58.72	-2.38	56.34	74.00	-17.66	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	40.23	-7.49	32.74	54.00	-21.26	Vertical
7323.00	44.11	-2.40	41.71	54.00	-12.29	Vertical
9764.00	46.03	-2.38	43.65	54.00	-10.35	Vertical
12205.00	*			54.00		Vertical
14646.00	*			54.00		Vertical
4882.00	41.44	-7.49	33.95	54.00	-20.05	Horizontal
7323.00	44.36	-2.40	41.96	54.00	-12.04	Horizontal
9764.00	44.24	-2.38	41.86	54.00	-12.14	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.*

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
4960.00	47.17	-7.47	39.70	74.00	-34.30	Vertical
7440.00	54.36	-2.45	51.91	74.00	-22.09	Vertical
9920.00	56.69	-2.37	54.32	74.00	-19.68	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	44.07	-7.47	36.60	74.00	-37.40	Horizontal
7440.00	55.12	-2.45	52.67	74.00	-21.33	Horizontal
9920.00	57.45	-2.37	55.08	74.00	-18.92	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	40.34	-7.47	32.87	54.00	-21.13	Vertical
7440.00	42.31	-2.45	39.86	54.00	-14.14	Vertical
9920.00	44.08	-2.37	41.71	54.00	-12.29	Vertical
12400.00	*			54.00		Vertical
14880.00	*			54.00		Vertical
4960.00	41.11	-7.47	33.64	54.00	-20.36	Horizontal
7440.00	44.06	-2.45	41.61	54.00	-12.39	Horizontal
9920.00	44.74	-2.37	42.37	54.00	-11.63	Horizontal
12400.00	*			54.00		Horizontal
14880.00	*			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.



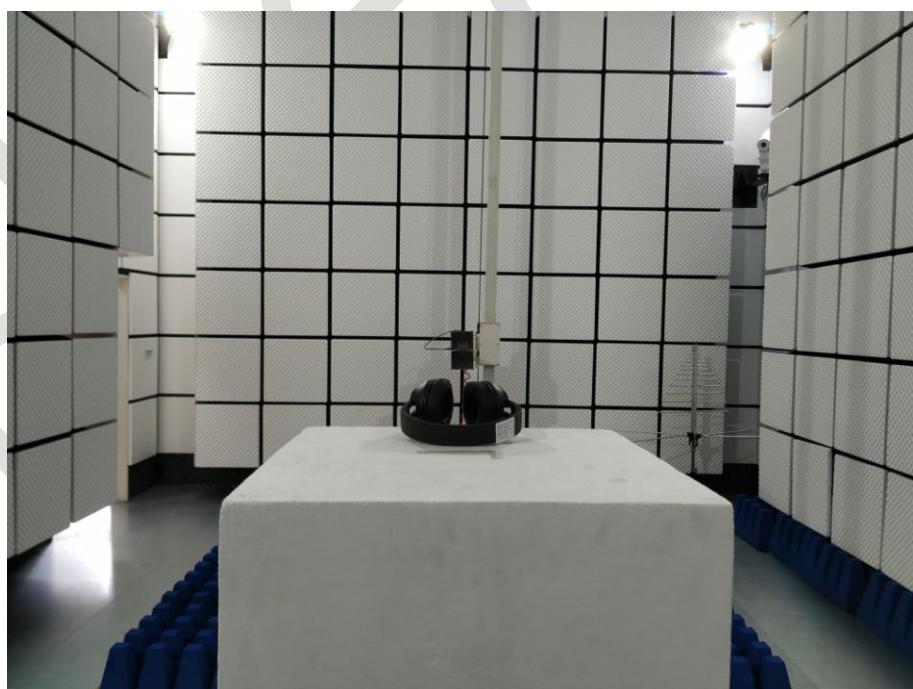
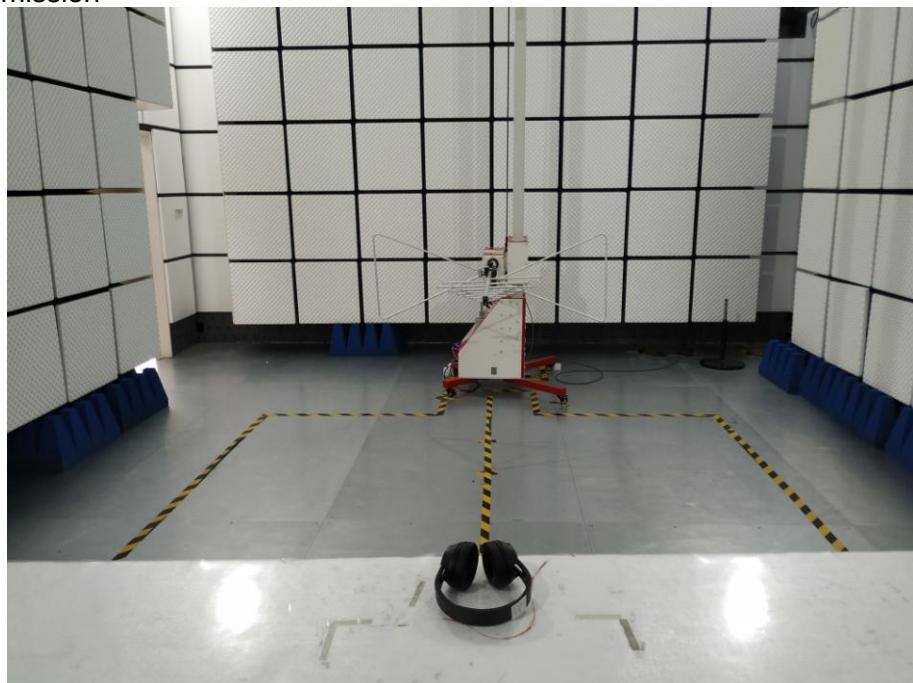
蓝亚 BLUE ASIA

Report No. : BLA-EMC-201905-A20-01

Page 46 of 54

## 8 Test Setup Photo

Radiated Emission



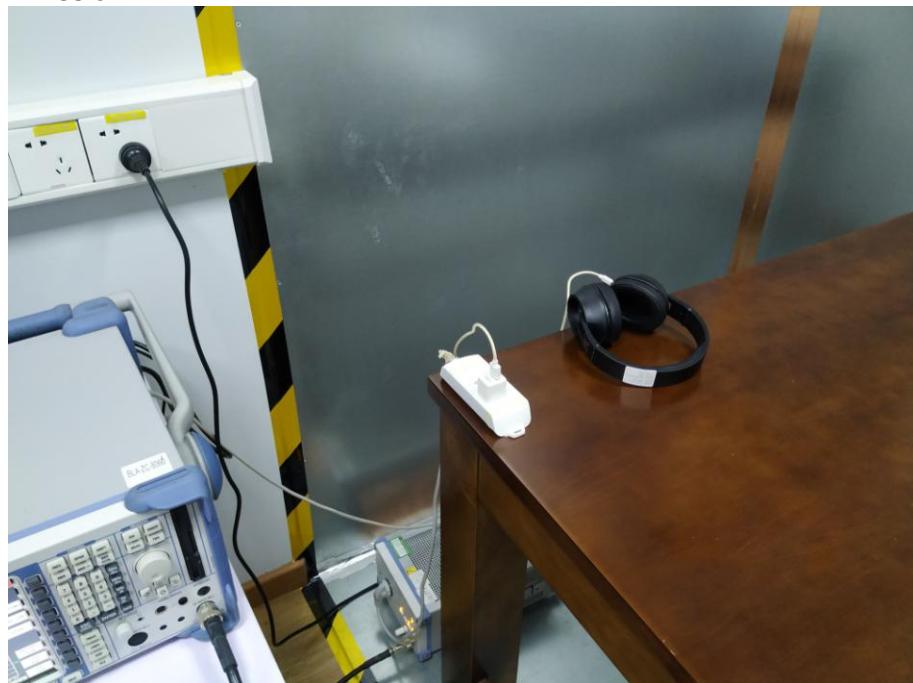
Qianhai BlueAsia of Technical Services(Shenzhen) Co., Ltd.

IOT Test Centre of BlueAsia,

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

Conducted Emission





蓝亚 BLUE ASIA

Report No. : BLA-EMC-201905-A20-01

Page 48 of 54

## 9 EUT Constructional Details



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

IOT Test Centre of BlueAsia,

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China

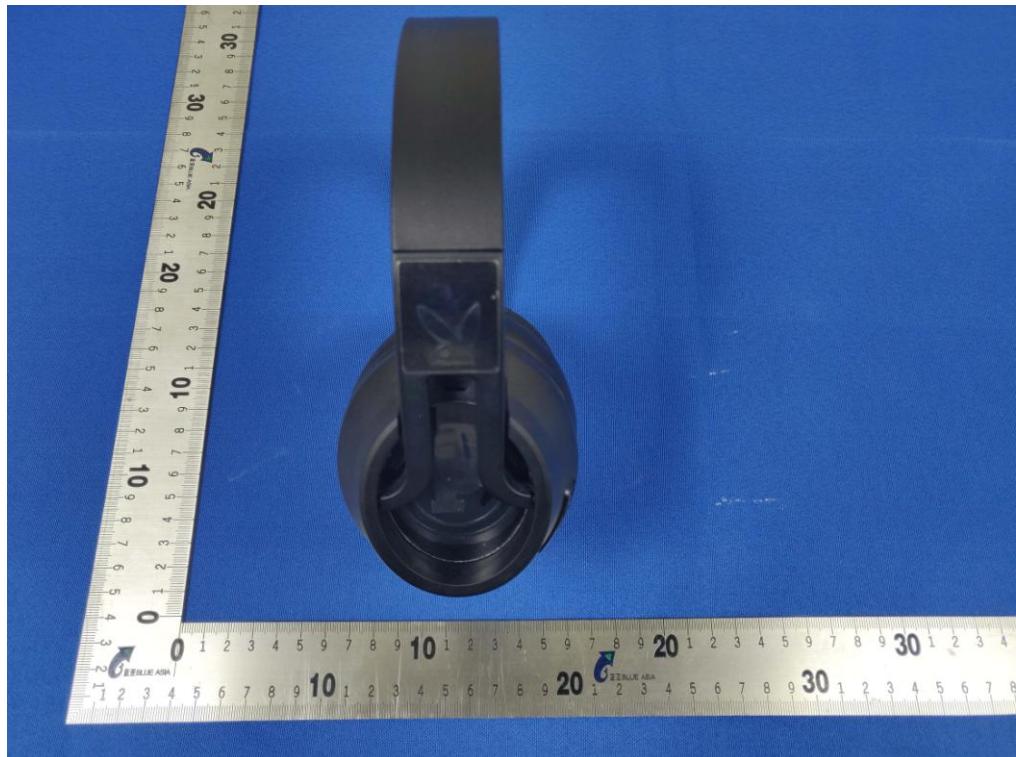
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673



蓝亚 BLUE ASIA

Report No. : BLA-EMC-201905-A20-01

Page 49 of 54



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

IOT Test Centre of BlueAsia,

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673



蓝亚 BLUE ASIA

Report No. : BLA-EMC-201905-A20-01

Page 50 of 54



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

IOT Test Centre of BlueAsia,

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673



蓝亚 BLUE ASIA

Report No. : BLA-EMC-201905-A20-01

Page 51 of 54



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

IOT Test Centre of BlueAsia,

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China

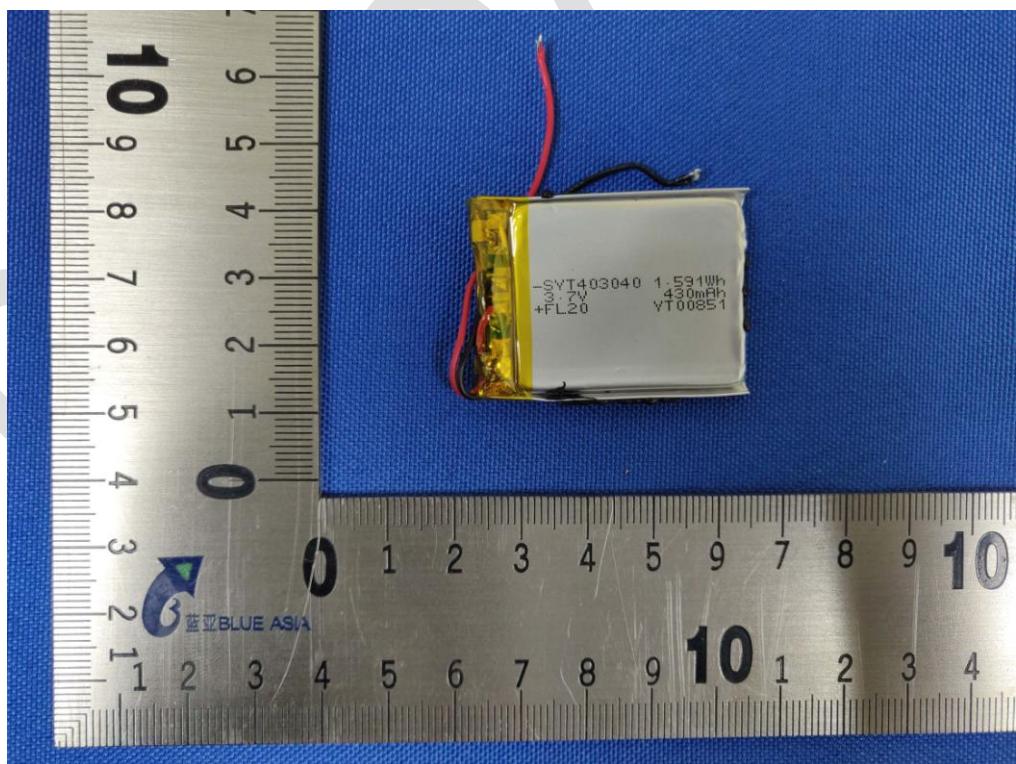
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673



蓝亚 BLUE ASIA

Report No. : BLA-EMC-201905-A20-01

Page 52 of 54



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

IOT Test Centre of BlueAsia,

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China

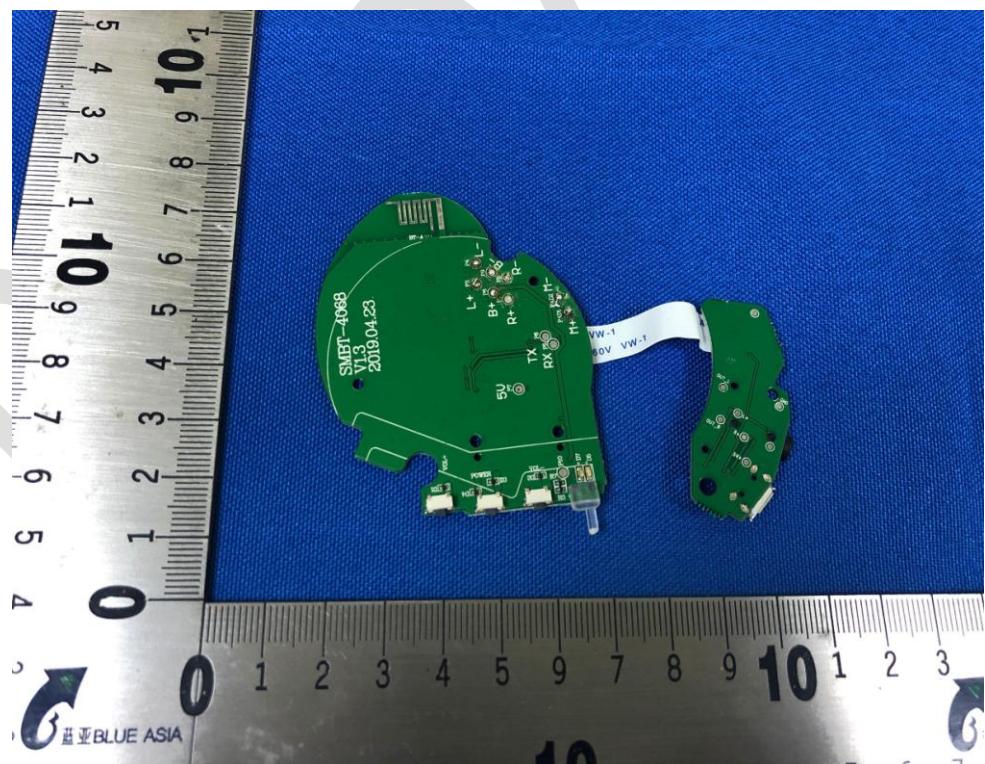
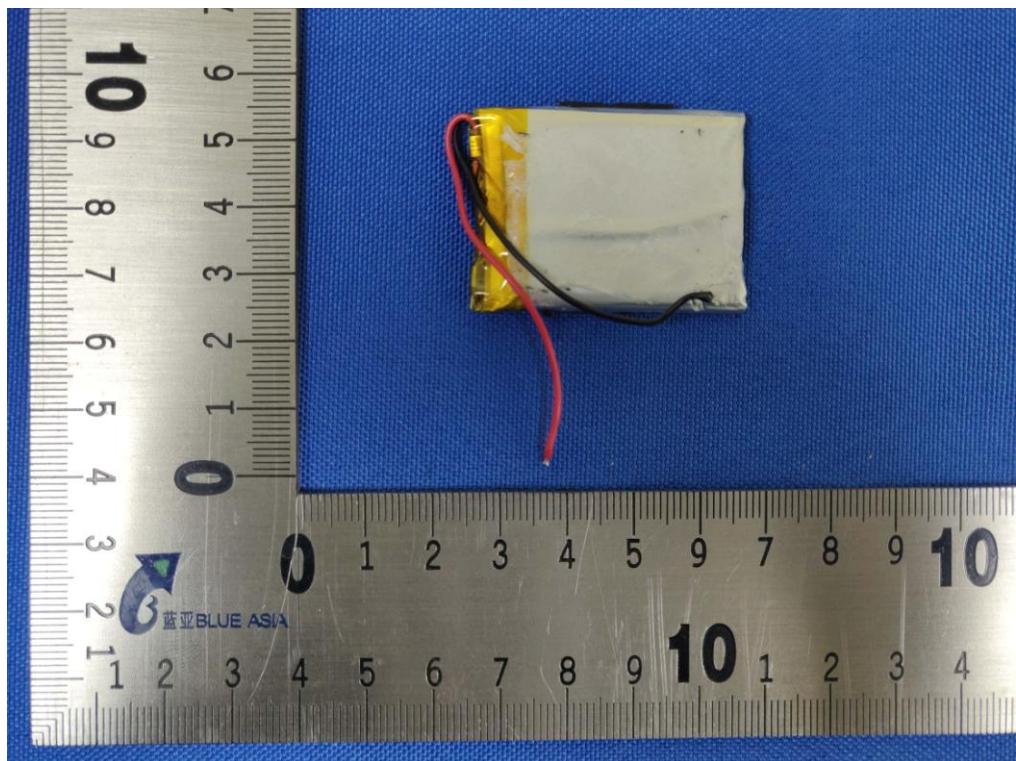
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673



蓝亚 BLUE ASIA

Report No. : BLA-EMC-201905-A20-01

Page 53 of 54



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

IOT Test Centre of BlueAsia,

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China

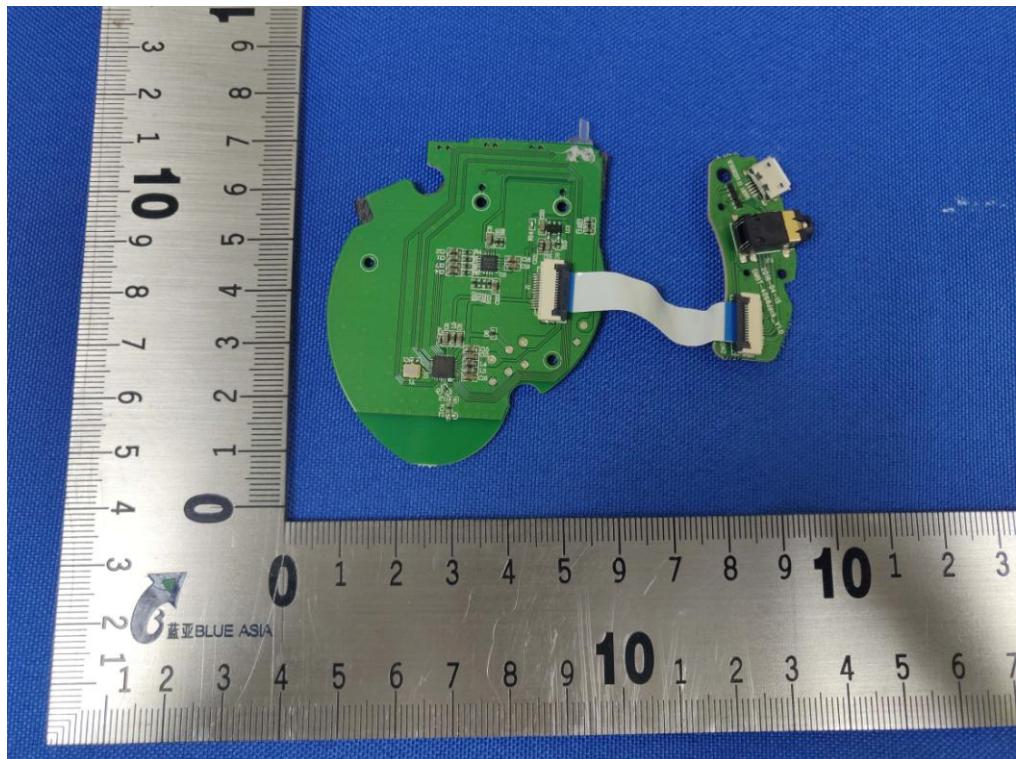
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673



蓝亚 BLUE ASIA

Report No. : BLA-EMC-201905-A20-01

Page 54 of 54



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

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.

-----End-----

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

IOT Test Centre of BlueAsia,

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673