

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of

Lezun Limited

Active Noise Cancelling Wireless BT Headphone
Model No.: N5

FCC ID: R2GN5

Prepared for : Lezun Limited
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China

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Date of Test : Dec. 20-Dec. 21, 2017
Date of Report : Dec. 22, 2017

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Test Report Certification

Applicant : Lezun Limited
Manufacturer : Lezun Limited
EUT Description : Active Noise Cancelling Wireless BT Headphone
Model No. : N5
Trade Name : N/A

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247: 2017
ANSI C63.10: 2013

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 : Dec. 20-Dec. 21, 2017

Date of Report : Dec. 22, 2017

Prepared by :

Stan Yang

(Stan Yang, Engineer)

Approved & Authorized Signer :

Sean Liu
(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Model Number	:	N5
Bluetooth version	:	V 4.1 This report is for BT classic mode
Frequency Range	:	2402MHz-2480MHz
Number of Channels	:	79
Antenna Gain(Max)	:	2.5dBi
Antenna type	:	PCB antenna
Adapter Input Voltage	:	DC 3.7V (Powered by battery) or DC 5V (Powered by USB port)
Rated Voltage	:	DC 3.7V Battery
Battery Capacity	:	350 mAh
Modulation mode	:	GFSK, $\pi/4$ DQPSK, 8DPSK
Hardware version	:	V08
software version	:	V1.0
Applicant	:	Lezun Limited
Address	:	3F, Block 1C Huiye technology park, Guanguang Road, Shenzhen, China
Manufacturer	:	Lezun Limited
Address	:	3F, Block 1C Huiye technology park, Guanguang Road, Shenzhen, China

1.2. Accessory and Auxiliary Equipment

AC/DC Power Adapter: (provided by laboratory)	:	Model: TEKA006-0501000UKU
		Input: 100-240V~50/60Hz 0.3A
		Output: DC 5V/1A

1.3. 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	:	Shenzhen Accurate Technology Co., Ltd.
Site Location	:	1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

1.4. Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

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. 07, 2017	1 Year
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 07, 2017	1 Year
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 07, 2017	1 Year
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan. 07, 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. 07, 2017	1 Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 07, 2017	1 Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18G-10SS	N/A	Jan. 07, 2017	1 Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2485-2375/2510-60/11SS	N/A	Jan. 07, 2017	1 Year
RF COAXIAL CABLE	SUHNER	N-5m(Frequency range:9KHz-26.5GHz)	NO.3	Jan. 07, 2017	1 Year
RF COAXIAL CABLE	SUHNER	N-5m(Frequency range:9KHz-26.5GHz)	NO.4	Jan. 07, 2017	1 Year
RF COAXIAL CABLE	SUHNER	N-1m(Frequency range:9KHz-26.5GHz)	NO.5	Jan. 07, 2017	1 Year
RF COAXIAL CABLE	SUHNER	N-1m(Frequency range:9KHz-26.5GHz)	NO.6	Jan. 07, 2017	1 Year
Temporary antenna connector	NTGS	14AE	N/A	Dec. 20, 2017	N/A

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: Transmitting mode

Low Channel: 2402MHz

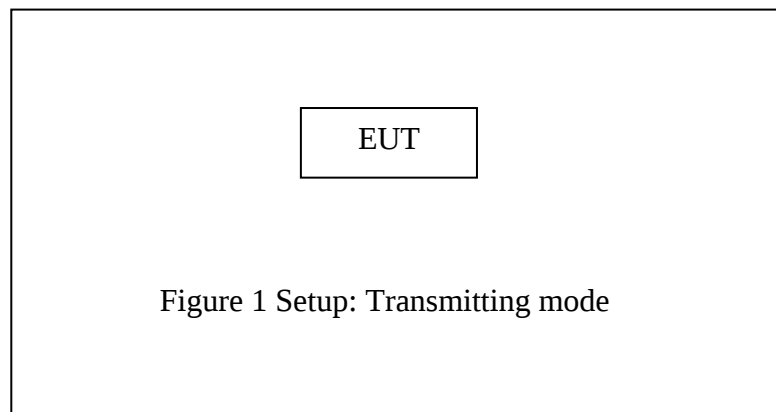
Middle Channel: 2441MHz

High Channel: 2480MHz

Hopping

Note: The equipment under test (EUT) was tested under fully-charged battery.
The Bluetooth has been tested under continuous transmission mode.

3.2.Configuration and peripherals

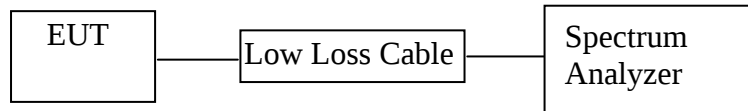


4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission Test	Compliant
Section 15.247(a)(1)	20dB Bandwidth Test	Compliant
Section 15.247(a)(1)	Carrier Frequency Separation Test	Compliant
Section 15.247(a)(1)(iii)	Number Of Hopping Frequency Test	Compliant
Section 15.247(a)(1)(iii)	Dwell Time Test	Compliant
Section 15.247(b)(1)	Maximum Peak Output Power Test	Compliant
Section 15.247(d) Section 15.209	Radiated Emission Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. 20DB BANDWIDTH TEST

5.1. Block Diagram of Test Setup



(EUT: Active Noise Cancelling Wireless BT Headphone)

5.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): 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.

5.3. 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.

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 TX (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

5.5. Test Procedure

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

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

5.5.3. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

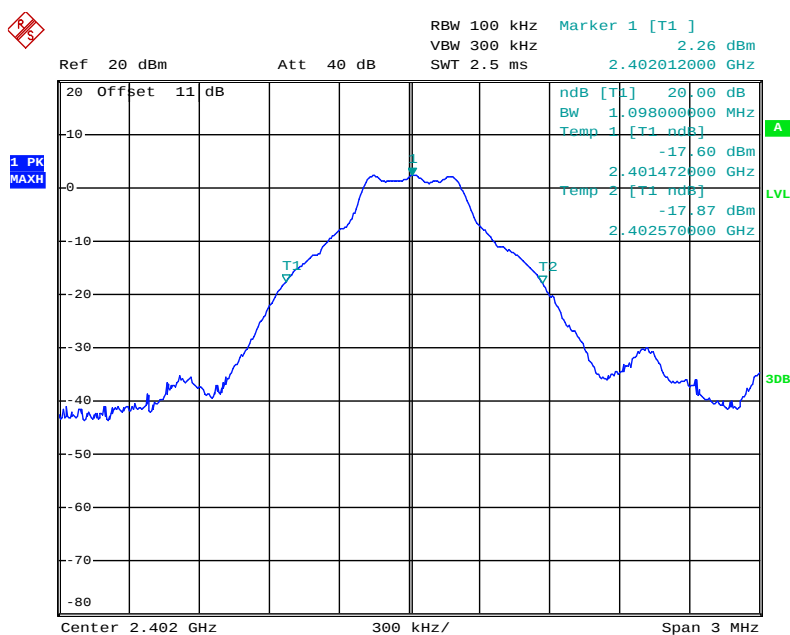
5.6. Test Result

Channel	Frequency (MHz)	GFSK 20dB Bandwidth (MHz)	$\Pi/4$ -DQPSK 20dB Bandwidth (MHz)	8DPSK 20dB Bandwidth (MHz)	Result
Low	2402	1.098	1.362	1.350	Pass
Middle	2441	1.098	1.356	1.344	Pass
High	2480	1.110	1.356	1.344	Pass

The spectrum analyzer plots are attached as below.

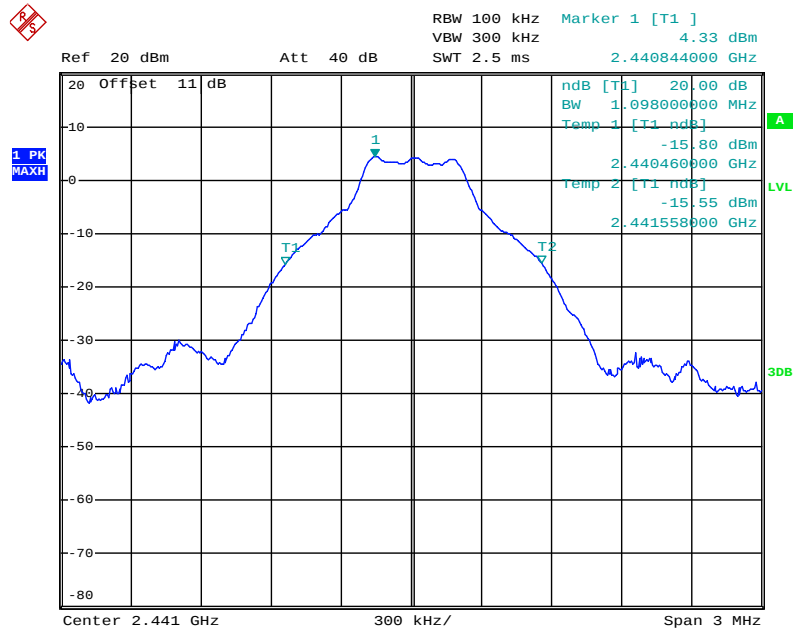
GFSK Mode

Low channel



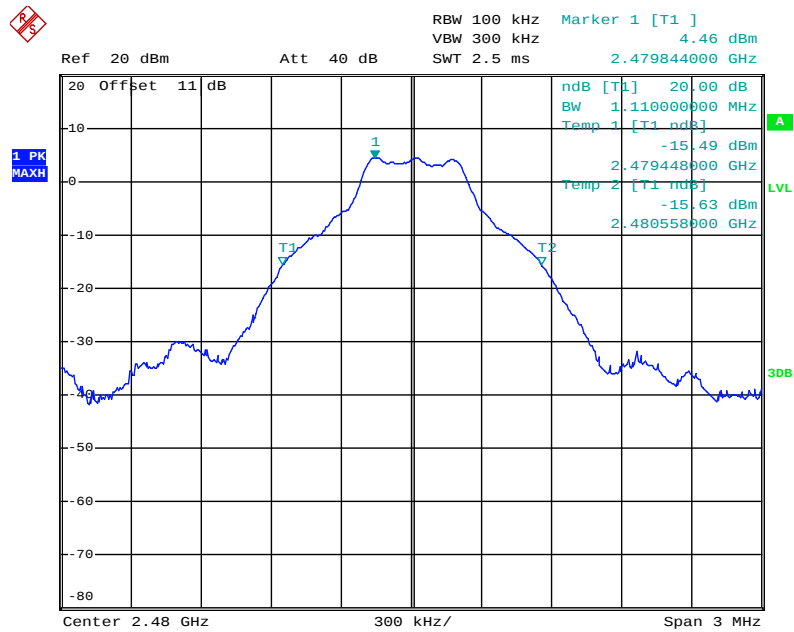
Date: 20.DEC.2017 09:42:02

Middle channel



Date: 20.DEC.2017 09:43:58

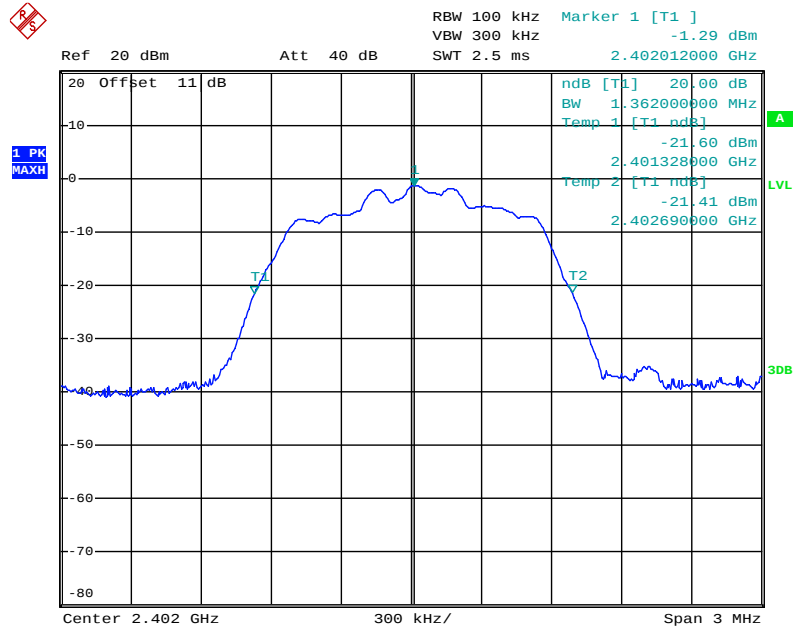
High channel



Date: 20.DEC.2017 09:44:37

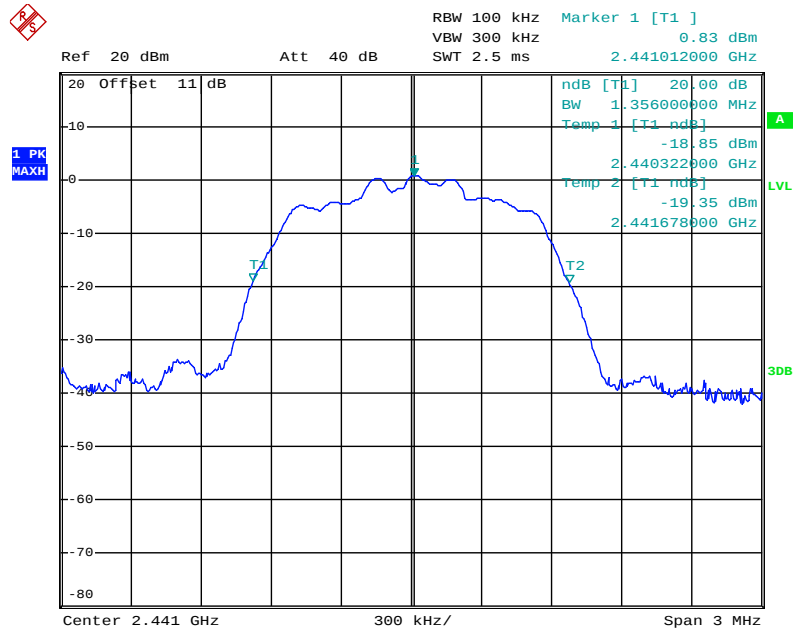
Π/4-DQPSK Mode

Low channel



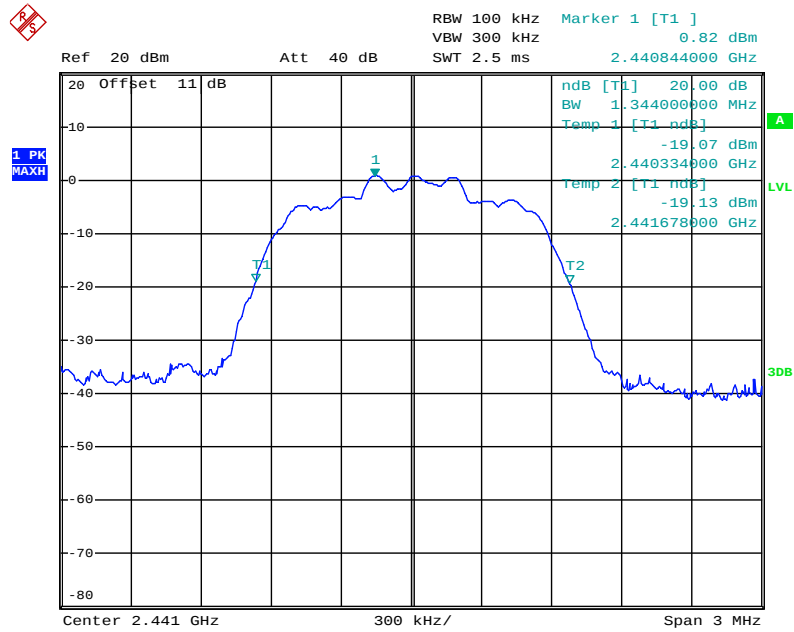
Date: 20.DEC.2017 09:48:35

Middle channel



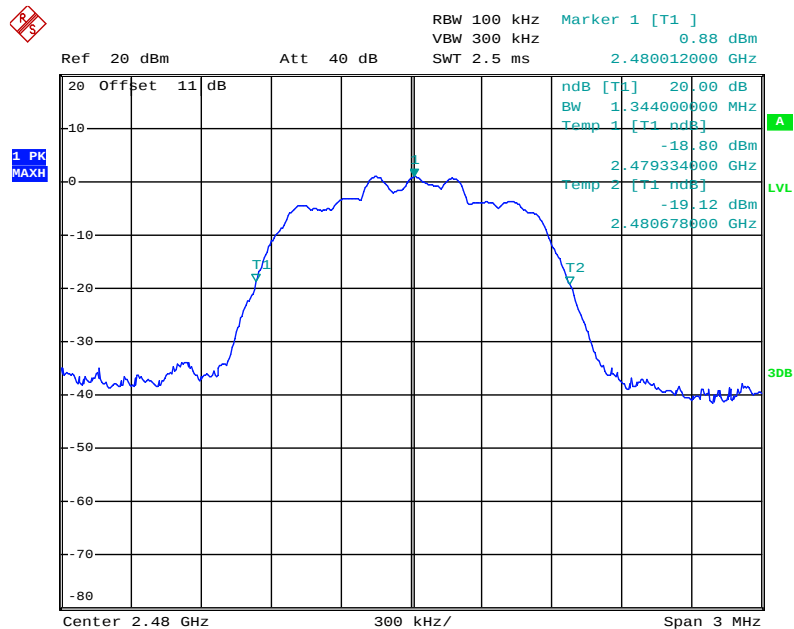
Date: 20.DEC.2017 09:47:11

Middle channel



Date: 20.DEC.2017 09:50:43

High channel



Date: 20.DEC.2017 09:51:17

6. CARRIER FREQUENCY SEPARATION TEST

6.1. Block Diagram of Test Setup



(EUT: Active Noise Cancelling Wireless BT Headphone)

6.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): 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. 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 pseudorandomly 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.

6.3. 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.

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 (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 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 30 kHz and VBW to 100 kHz. Adjust Span to 2MHz.

6.5.3. Set the adjacent channel of the EUT Maxhold another trace.

6.5.4. Measurement the channel separation

6.6. Test Result

GFSK

Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.002	25KHz or 2/3*20dB bandwidth	PASS
	2403			
Middle	2440	1.002	25KHz or 2/3*20dB bandwidth	PASS
	2441			
High	2479	1.002	25KHz or 2/3*20dB bandwidth	PASS
	2480			

Π/4-DQPSK

Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.008	25KHz or 2/3*20dB bandwidth	PASS
	2403			
Middle	2440	1.002	25KHz or 2/3*20dB bandwidth	PASS
	2441			
High	2479	1.008	25KHz or 2/3*20dB bandwidth	PASS
	2480			

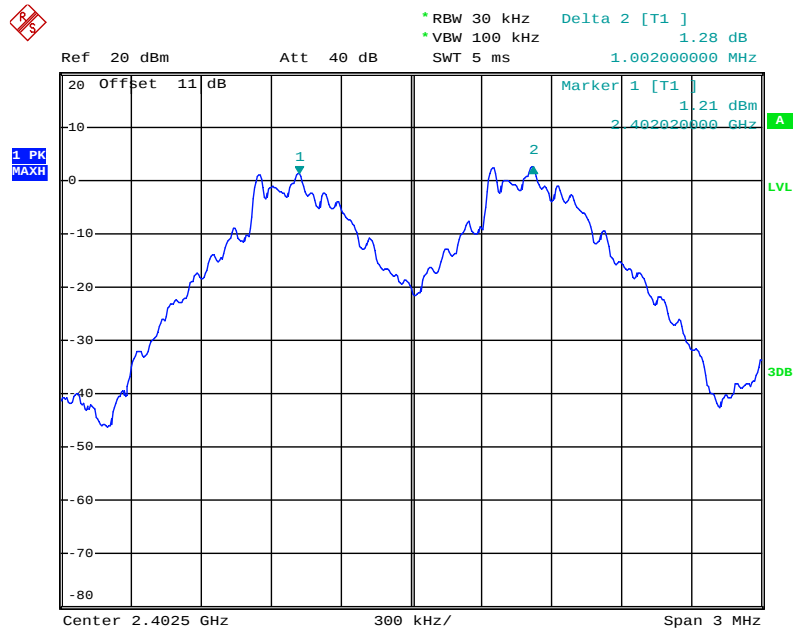
8DPSK

Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.002	25KHz or 2/3*20dB bandwidth	PASS
	2403			
Middle	2440	1.002	25KHz or 2/3*20dB bandwidth	PASS
	2441			
High	2479	1.002	25KHz or 2/3*20dB bandwidth	PASS
	2480			

The spectrum analyzer plots are attached as below.

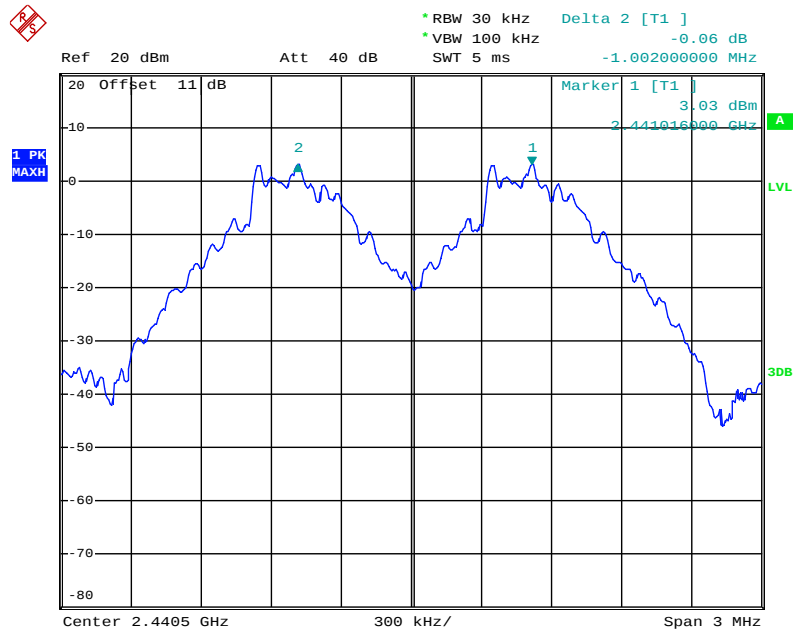
GFSK Mode

Low channel



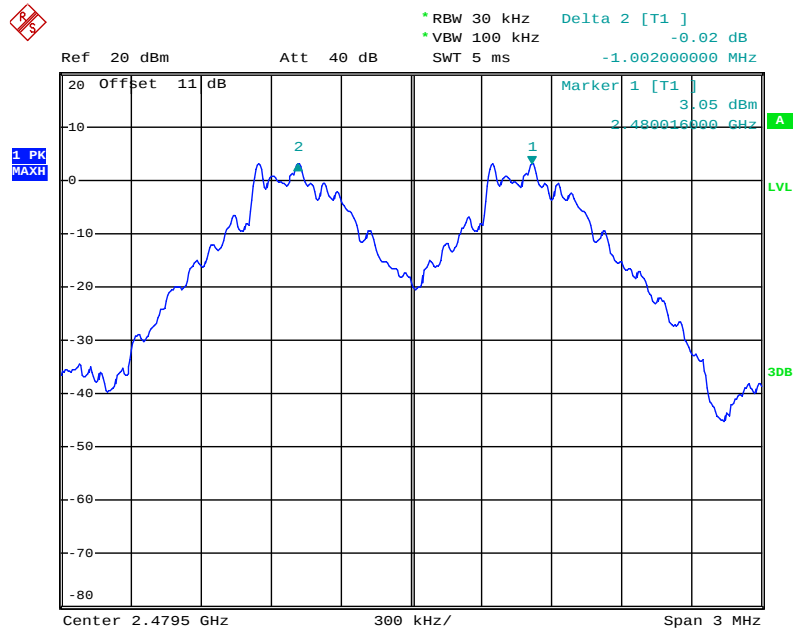
Date: 20.DEC.2017 13:08:10

Middle channel



Date: 20.DEC.2017 13:09:33

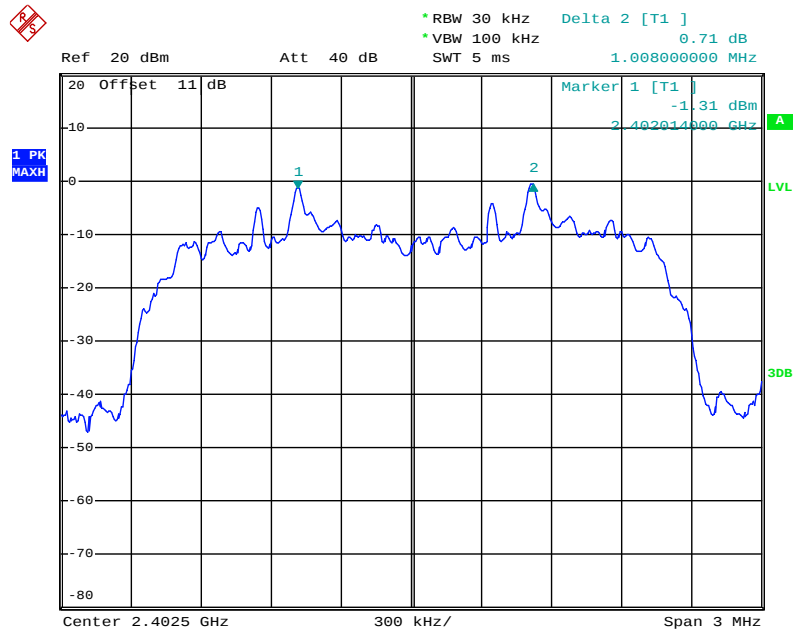
High channel



Date: 20.DEC.2017 13:11:18

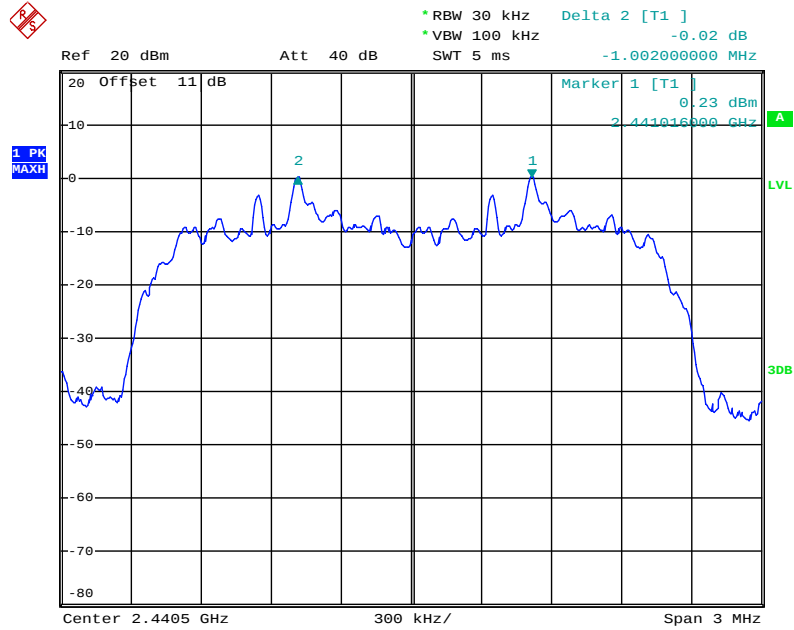
II/4-DQPSK Mode

Low channel



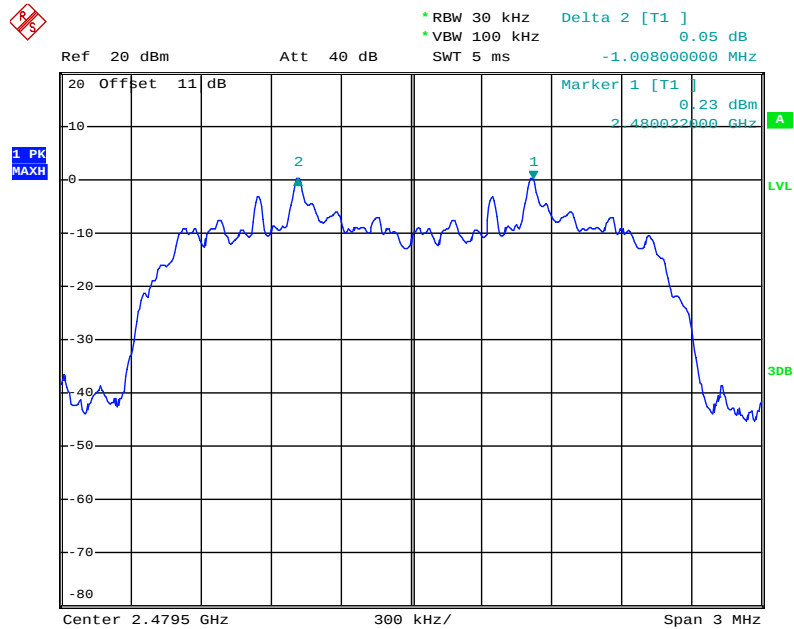
Date: 20.DEC.2017 13:15:25

Middle channel



Date: 20.DEC.2017 13:14:32

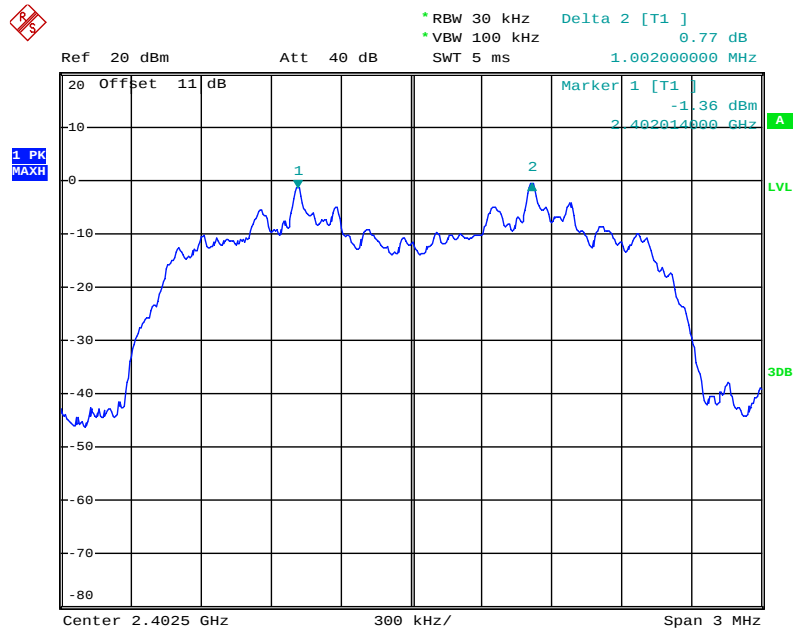
High channel



Date: 20.DEC.2017 13:12:54

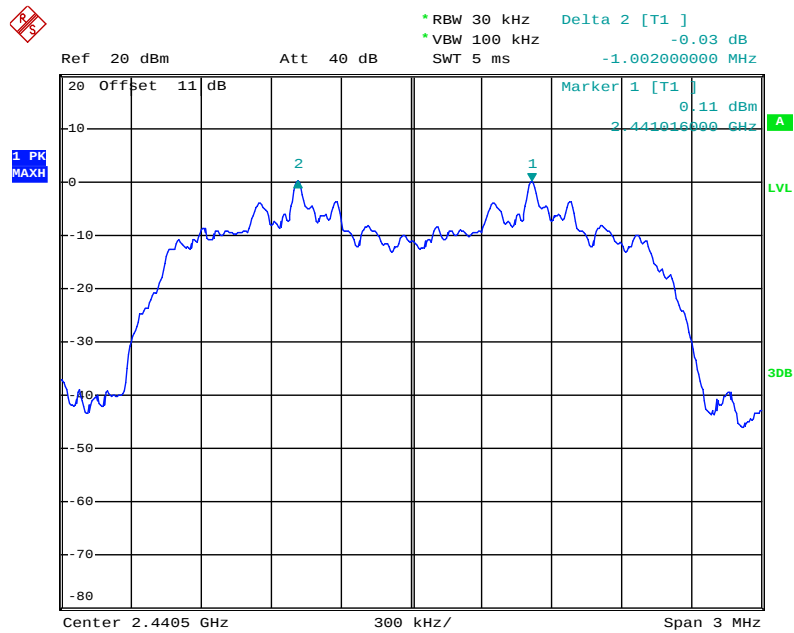
8DPSK Mode

Low channel



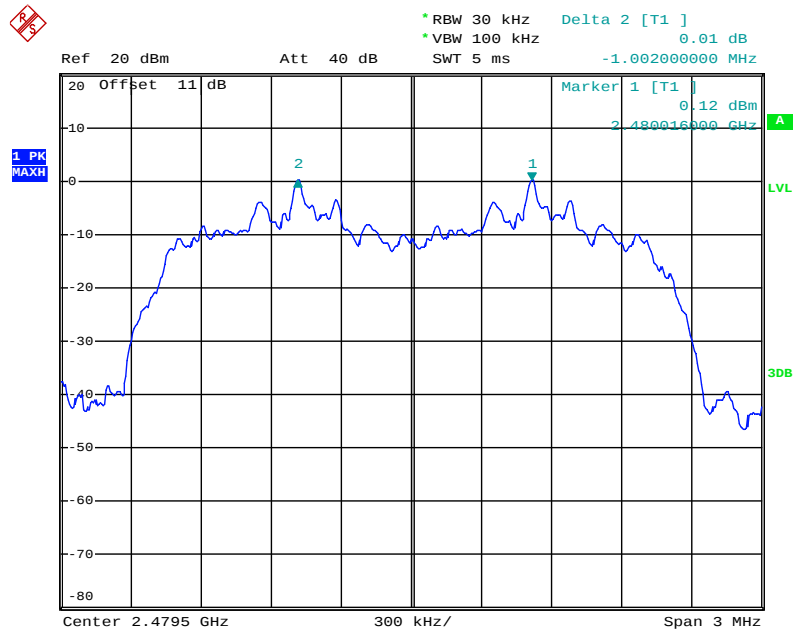
Date: 20.DEC.2017 13:16:33

Middle channel



Date: 20.DEC.2017 13:17:43

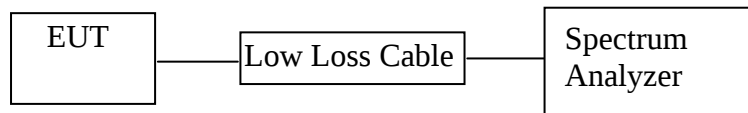
High channel



Date: 20.DEC.2017 13:18:36

7. NUMBER OF HOPPING FREQUENCY TEST

7.1. Block Diagram of Test Setup



(EUT: Active Noise Cancelling Wireless BT Headphone)

7.2. The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

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 (Hopping on) modes measure it.

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 the spectrum analyzer as RBW=100 kHz, VBW=300 kHz.

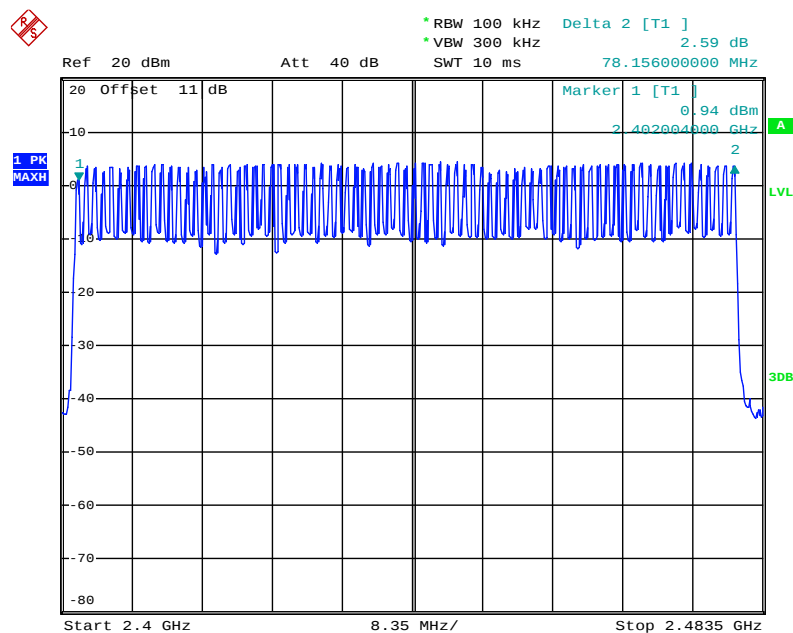
7.5.3. Max hold, view and count how many channel in the band.

7.6.Test Result

Total number of hopping channel	Measurement result(CH)	Limit(CH)
	79	≥ 15

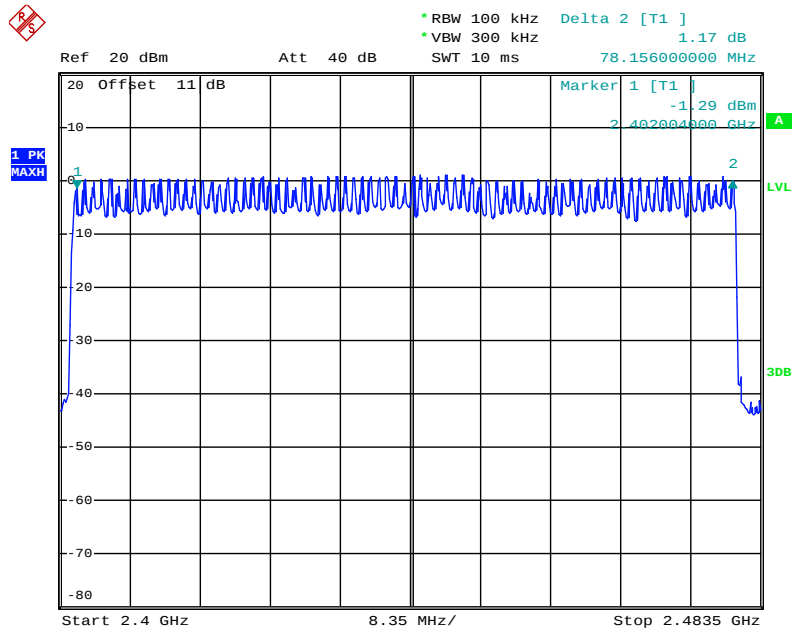
The spectrum analyzer plots are attached as below.

Number of hopping channels(GFSK)



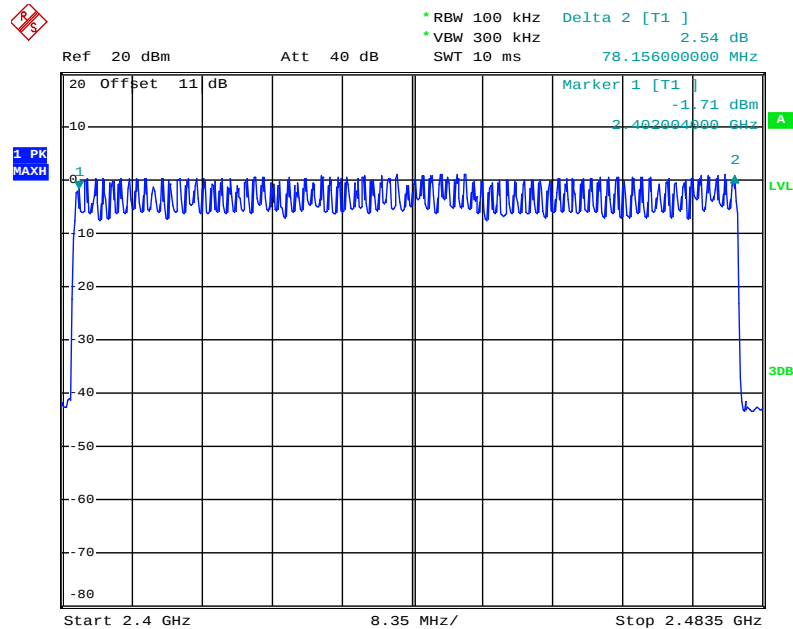
Date: 20.DEC.2017 10:03:26

Number of hopping channels($\pi/4$ -DQPSK)



Date: 20.DEC.2017 10:06:44

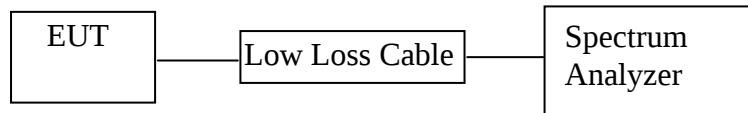
Number of hopping channels(8DPSK)



Date: 20.DEC.2017 10:09:37

8. DWELL TIME TEST

8.1. Block Diagram of Test Setup



(EUT: Active Noise Cancelling Wireless BT Headphone)

8.2. The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

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 (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 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. Set center frequency of spectrum analyzer = operating frequency.

8.5.3. Set the spectrum analyzer as RBW=1MHz, VBW=3MHz, Span=0Hz, Adjust Sweep=5ms, 10ms, 15ms. Get the pulse time.

8.5.4. Repeat above procedures until all frequency measured were complete.

8.6. Test Result

GFSK Mode

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2402	0.440	140.80	400
	2441	0.440	140.80	400
	2480	0.440	140.80	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2 \times 79)) \times 31.6$				
DH3	2402	1.720	275.20	400
	2441	1.720	275.20	400
	2480	1.720	275.20	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4 \times 79)) \times 31.6$				
DH5	2402	2.980	317.87	400
	2441	2.980	317.87	400
	2480	2.950	314.67	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6 \times 79)) \times 31.6$				

II/4-DQPSK

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2402	0.450	144.00	400
	2441	0.450	144.00	400
	2480	0.450	144.00	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2 \times 79)) \times 31.6$				
DH3	2402	1.750	280.00	400
	2441	1.750	280.00	400
	2480	1.730	276.80	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4 \times 79)) \times 31.6$				
DH5	2402	2.990	318.93	400
	2441	2.990	318.93	400
	2480	2.990	318.93	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6 \times 79)) \times 31.6$				

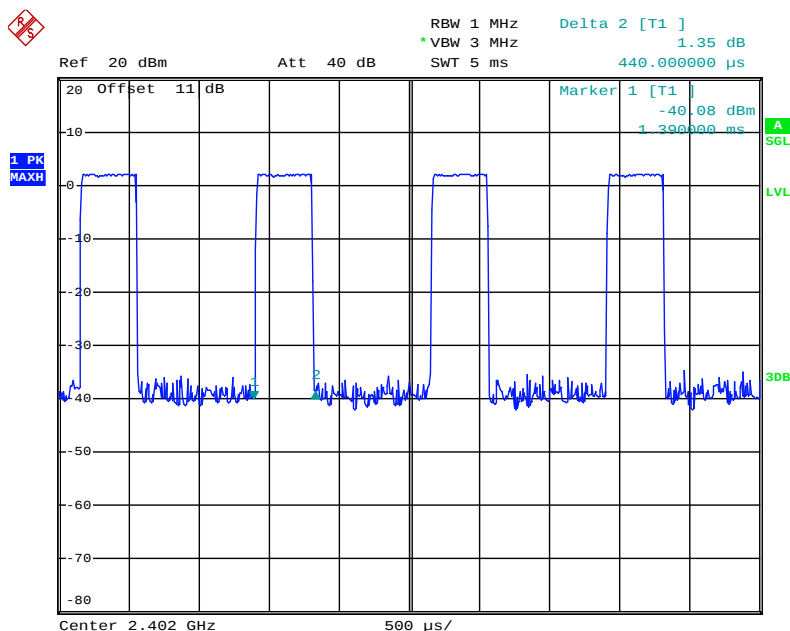
8DPSK Mode

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2402	0.450	144.00	400
	2441	0.450	144.00	400
	2480	0.450	144.00	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2 \times 79)) \times 31.6$				
DH3	2402	1.710	273.60	400
	2441	1.710	273.60	400
	2480	1.710	273.60	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4 \times 79)) \times 31.6$				
DH5	2402	3.000	320.00	400
	2441	3.000	320.00	400
	2480	3.000	320.00	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6 \times 79)) \times 31.6$				

The spectrum analyzer plots are attached as below.

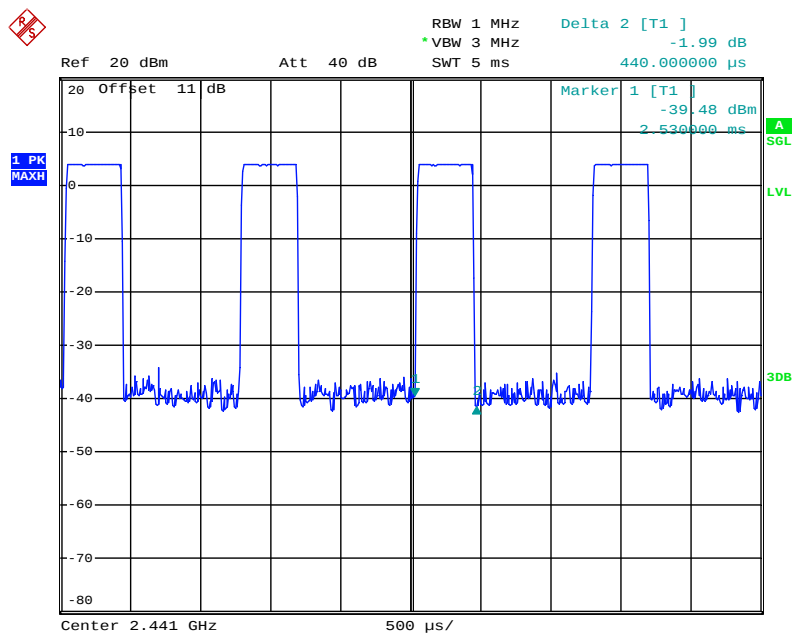
GFSK Mode

DH1 Low channel



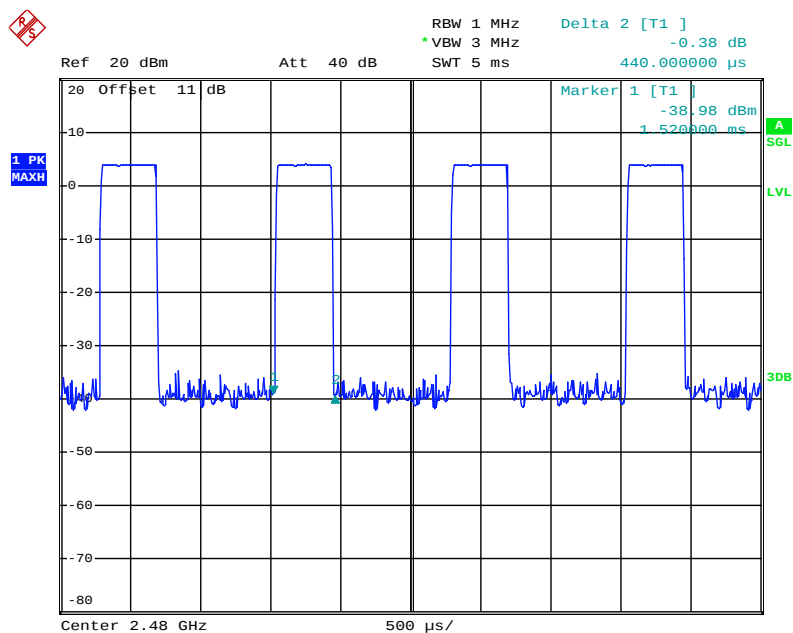
Date: 20.DEC.2017 13:20:36

DH1 Middle channel



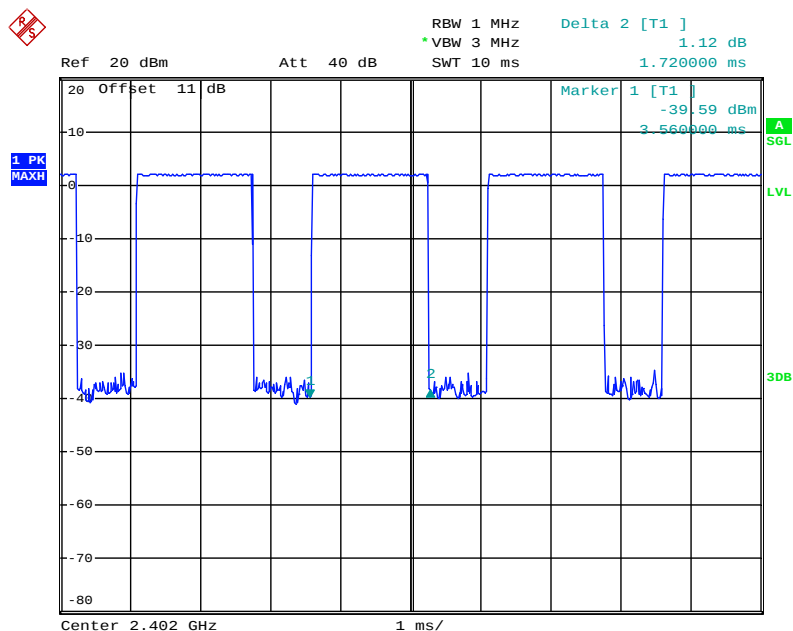
Date: 20.DEC.2017 13:21:50

DH1 High channel



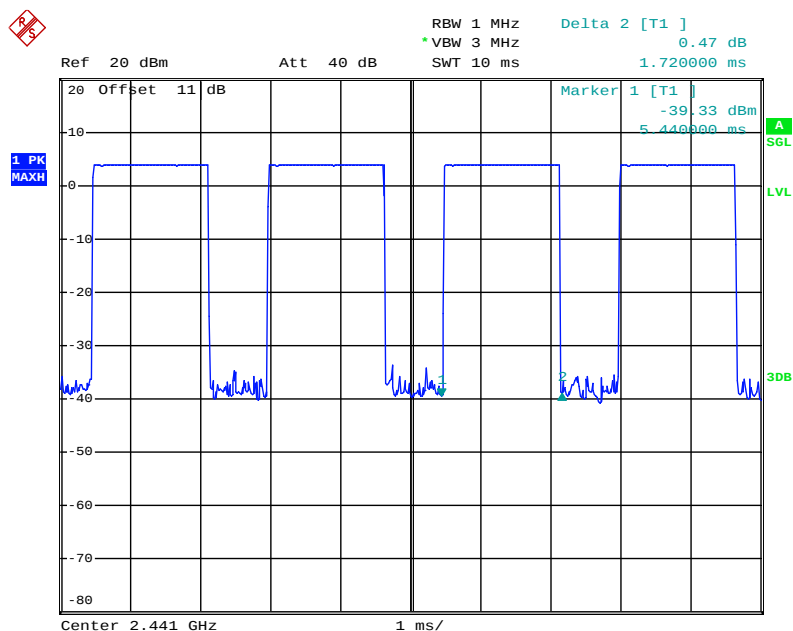
Date: 20.DEC.2017 13:22:38

DH3 Low channel



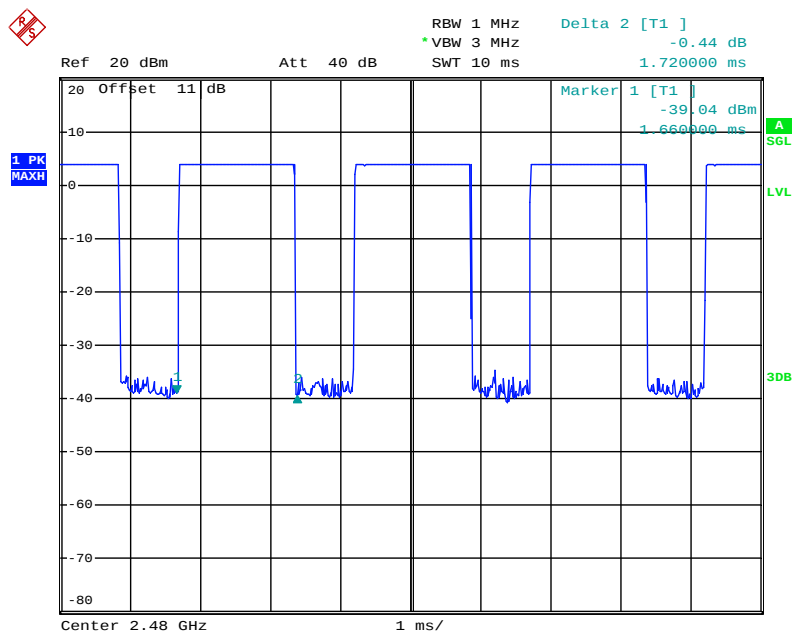
Date: 20.DEC.2017 13:23:44

DH3 Middle channel



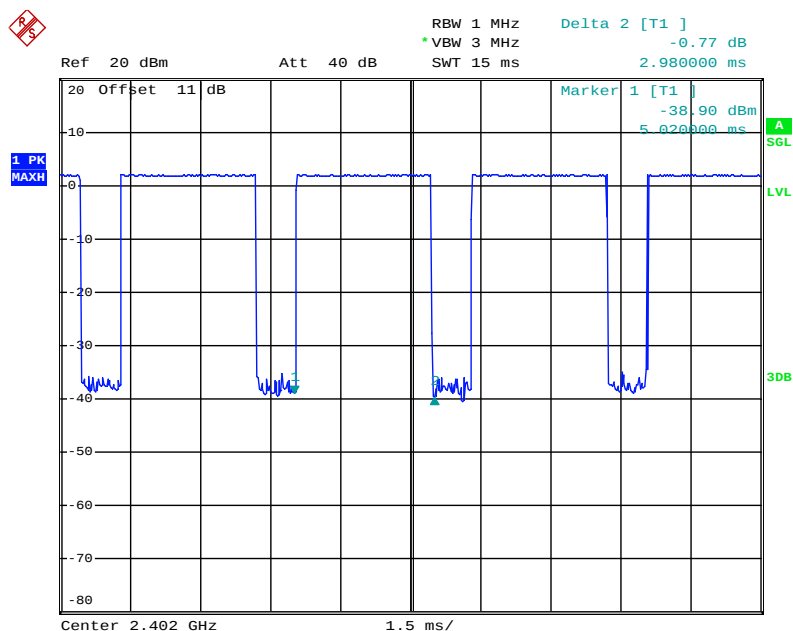
Date: 20.DEC.2017 13:24:30

DH3 High channel



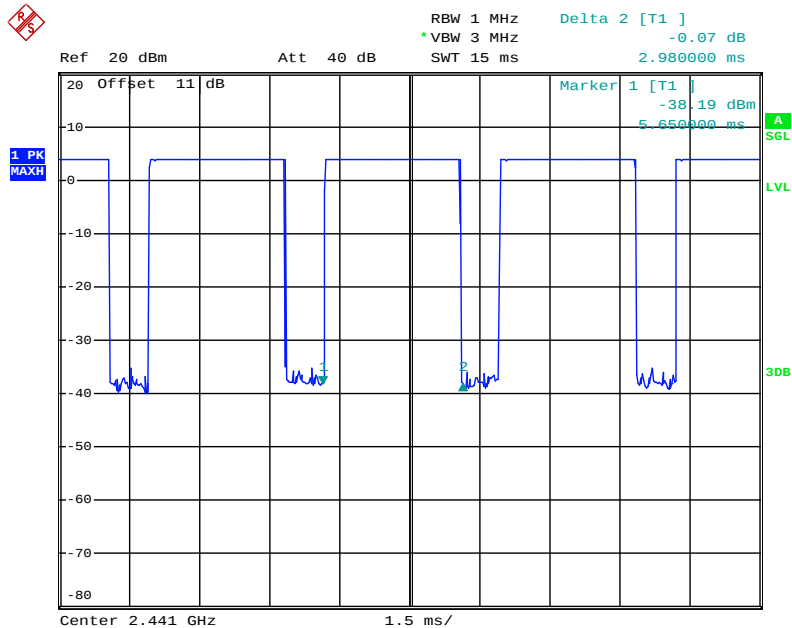
Date: 20.DEC.2017 13:25:32

DH5 Low channel



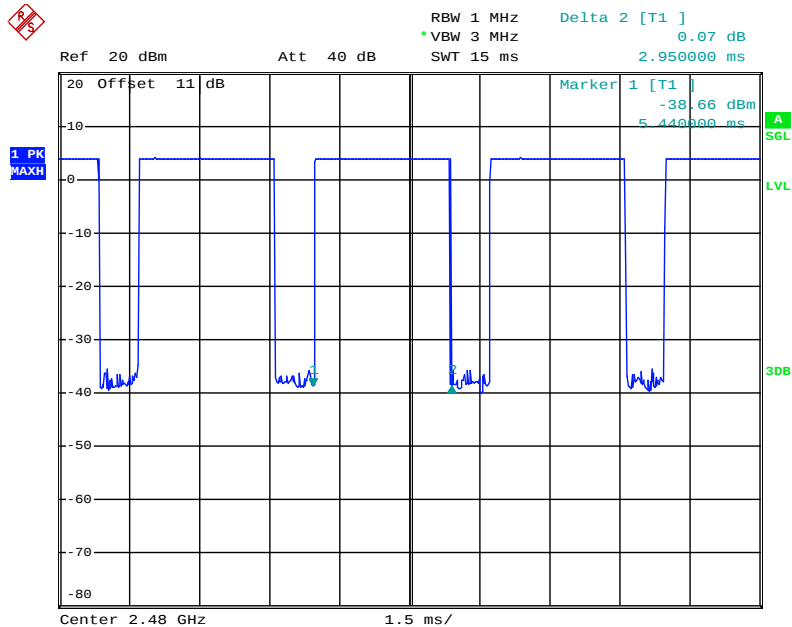
Date: 20.DEC.2017 13:27:01

DH5 Middle channel



Date: 20.DEC.2017 13:27:46

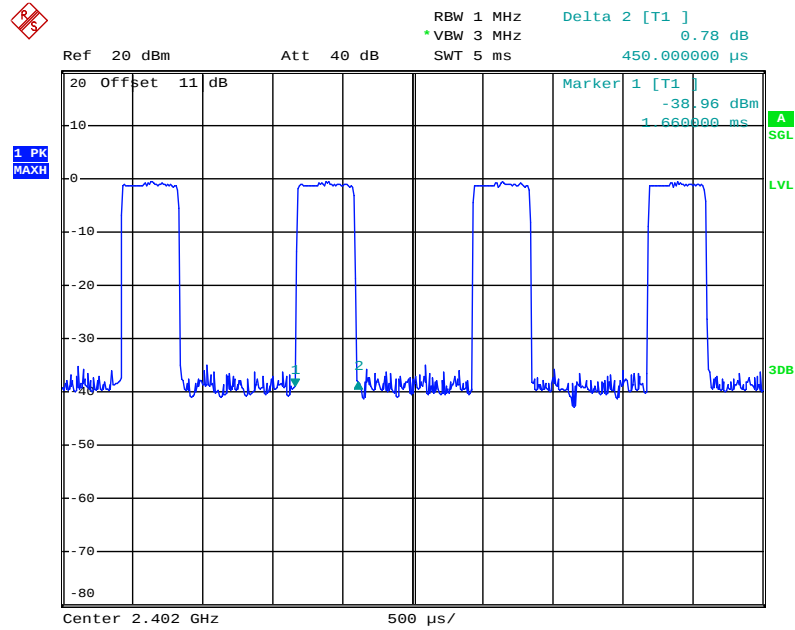
DH5 High channel



Date: 20.DEC.2017 13:28:50

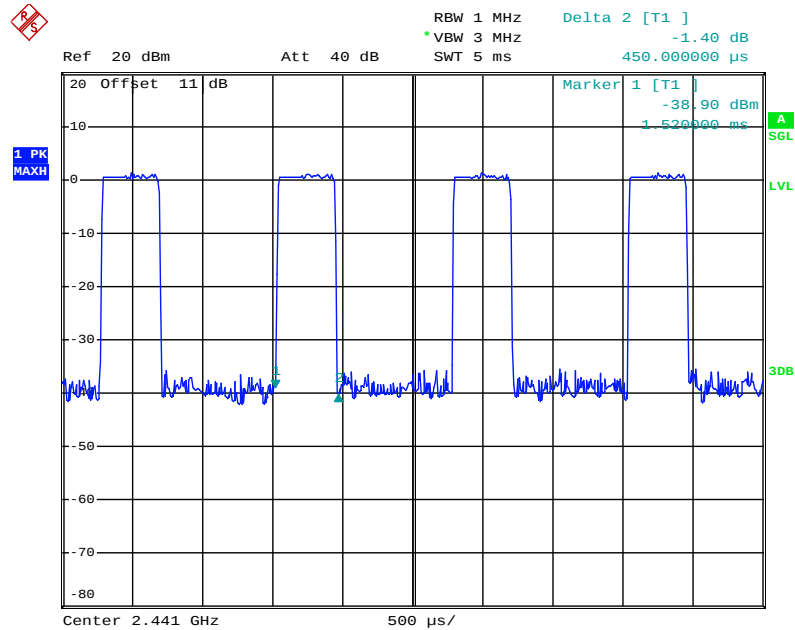
Π/4-DQPSK

2DH1 Low channel



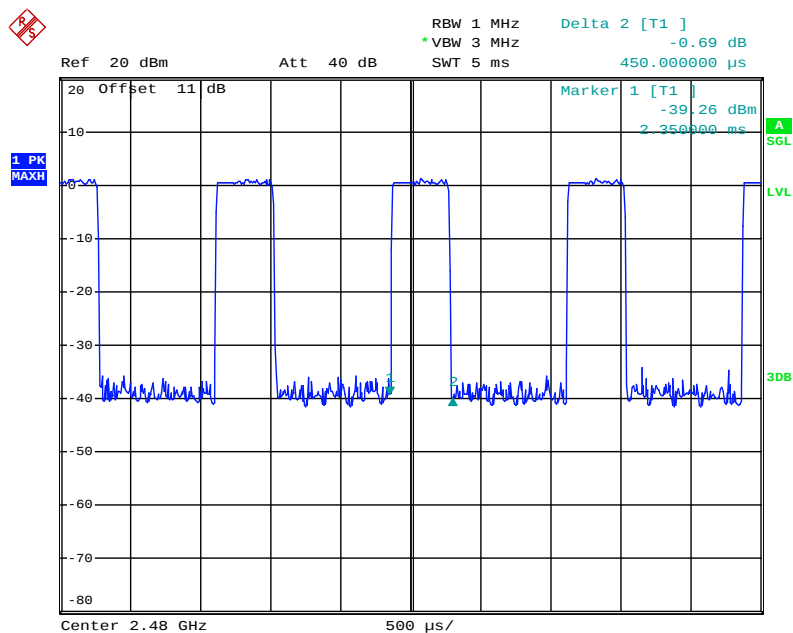
Date: 20.DEC.2017 13:30:11

2DH1 Middle channel



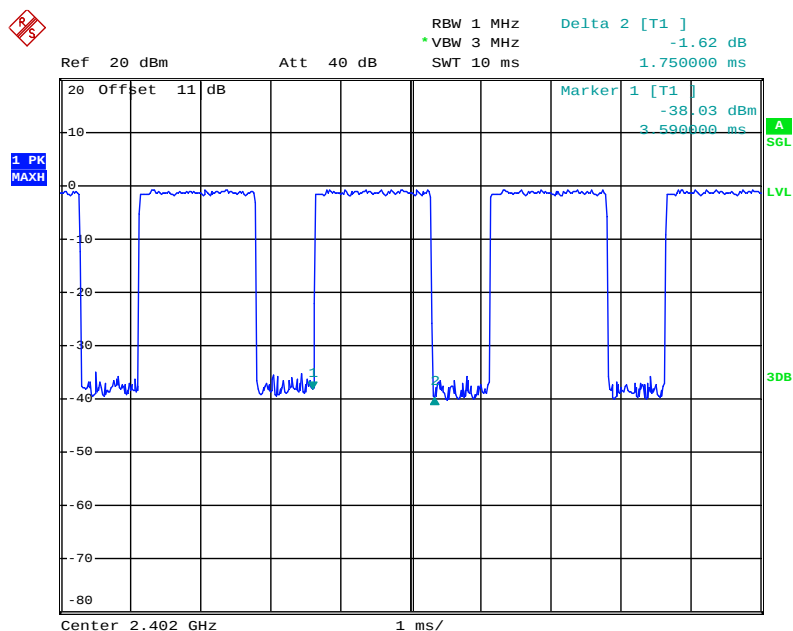
Date: 20.DEC.2017 13:35:23

2DH1 High channel



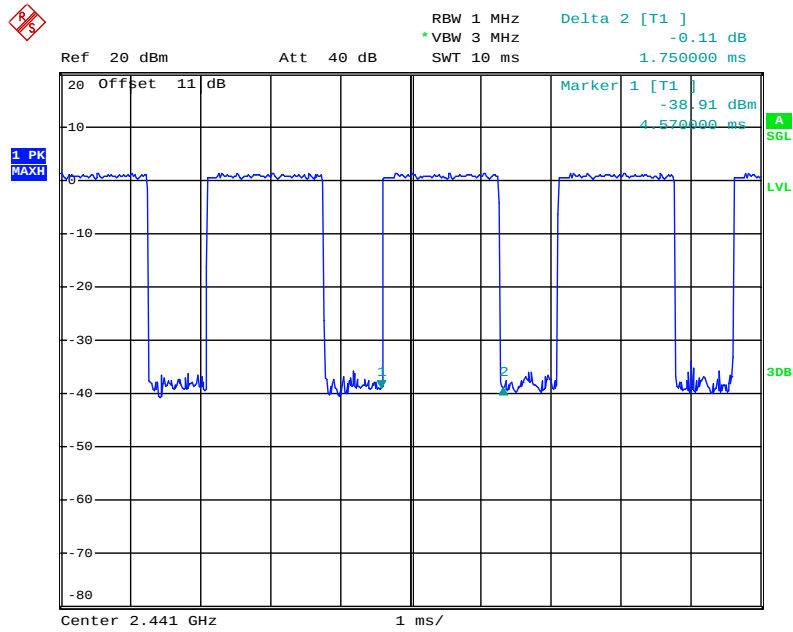
Date: 20.DEC.2017 13:36:03

2DH3 Low channel



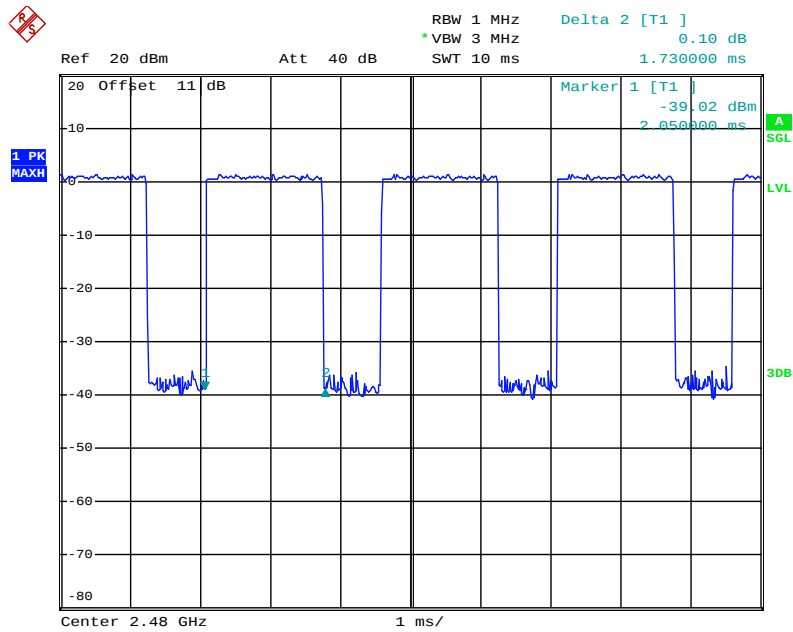
Date: 20.DEC.2017 13:37:26

2DH3 Middle channel



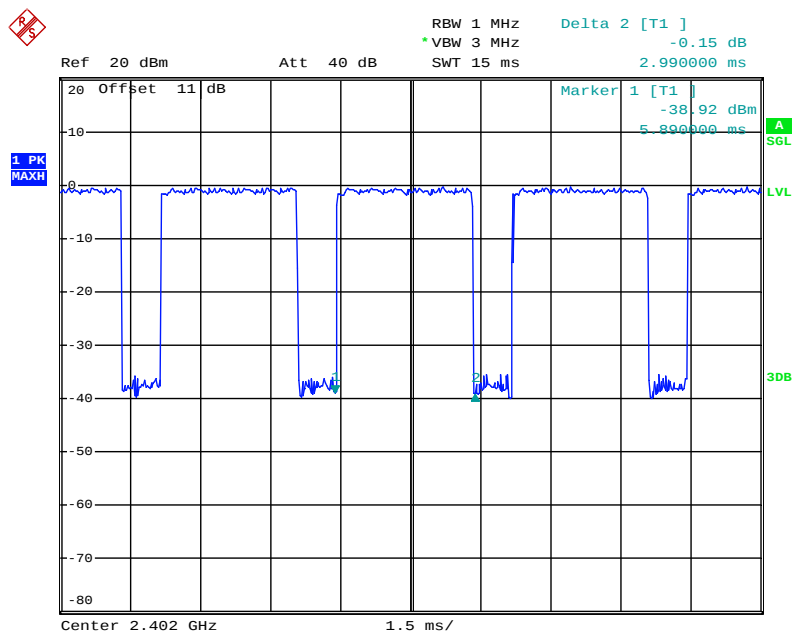
Date: 20.DEC.2017 13:38:11

2DH3 High channel



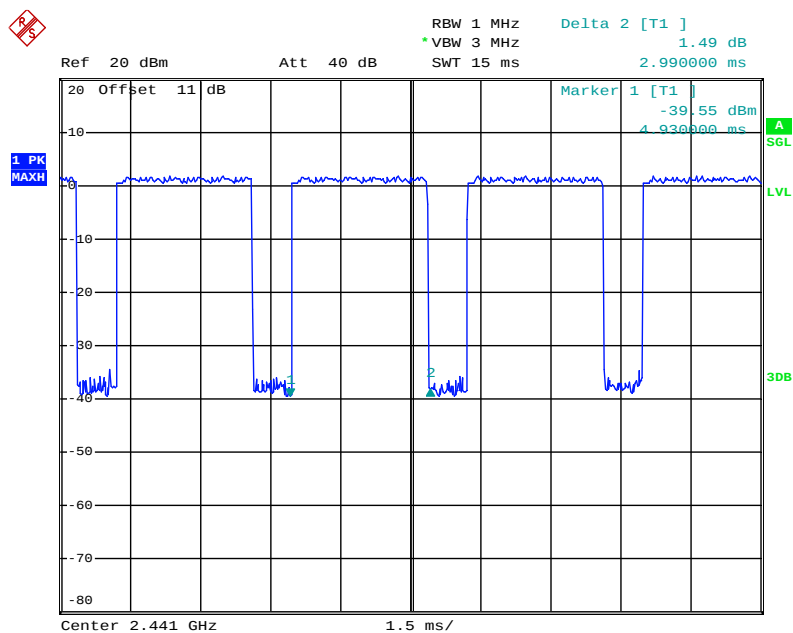
Date: 20.DEC.2017 13:38:56

2DH5 Low channel



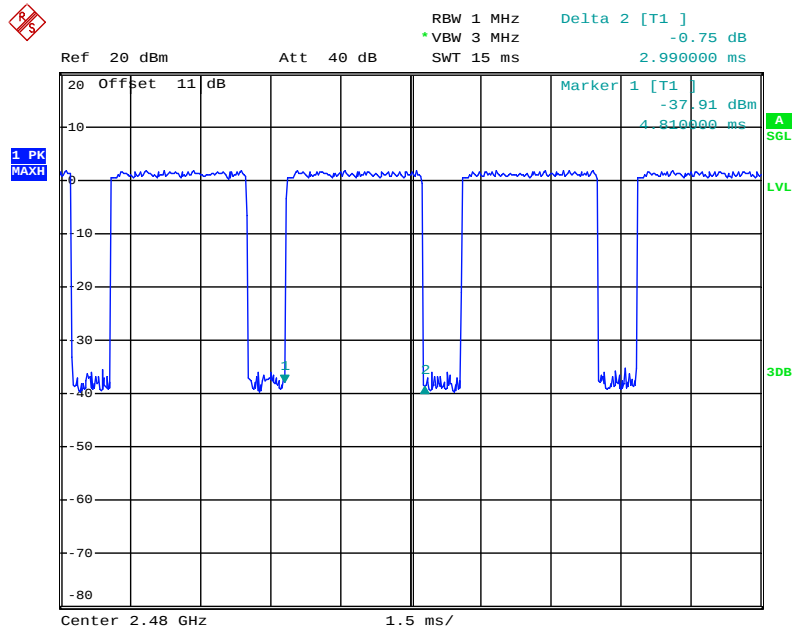
Date: 20.DEC.2017 13:55:58

2DH5 Middle channel



Date: 20.DEC.2017 13:56:35

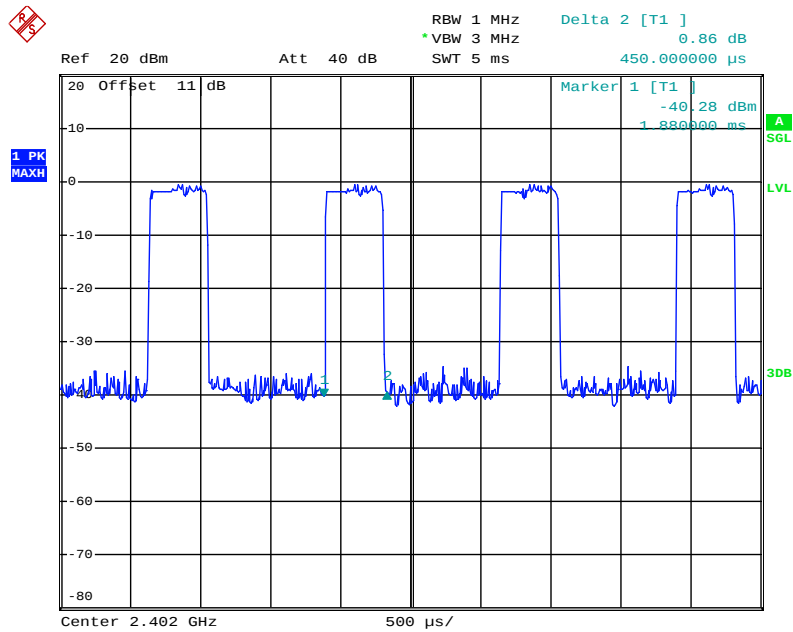
2DH5 High channel



Date: 20.DEC.2017 13:57:08

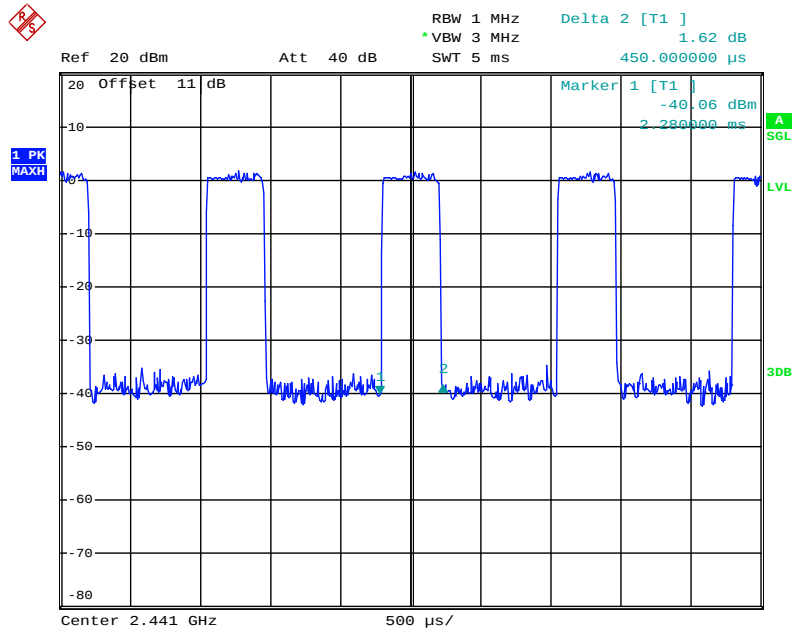
8DPSK Mode

3DH1 Low channel



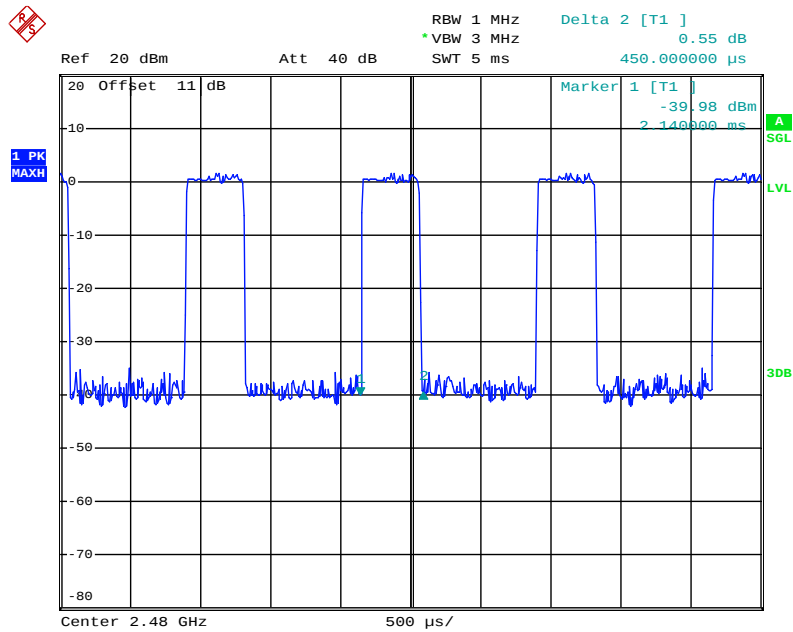
Date: 20.DEC.2017 13:58:53

3DH1 Middle channel



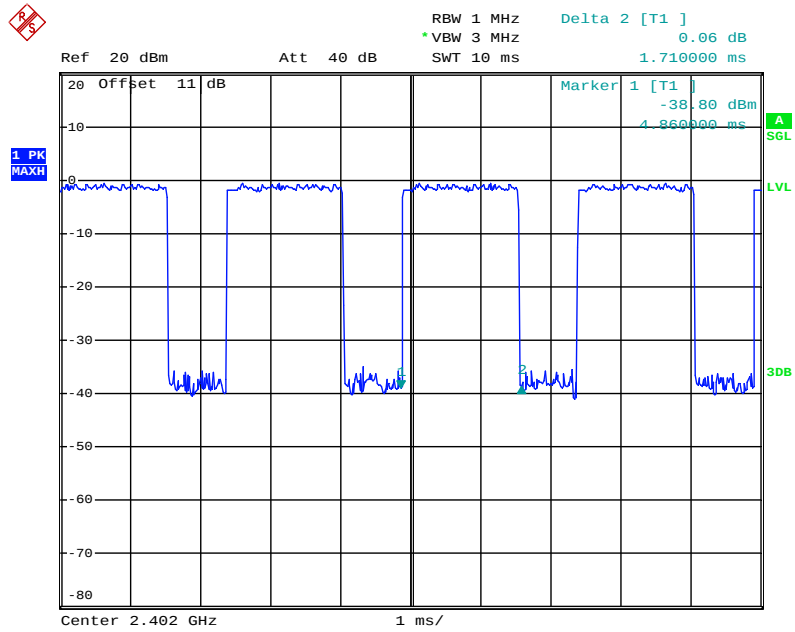
Date: 20.DEC.2017 13:59:51

3DH1 High channel



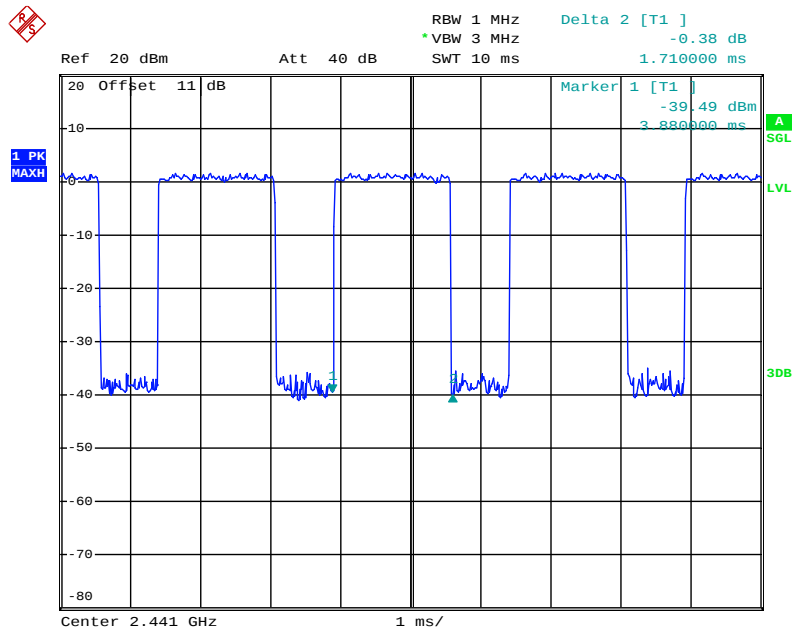
Date: 20.DEC.2017 14:00:32

3DH3 Low channel



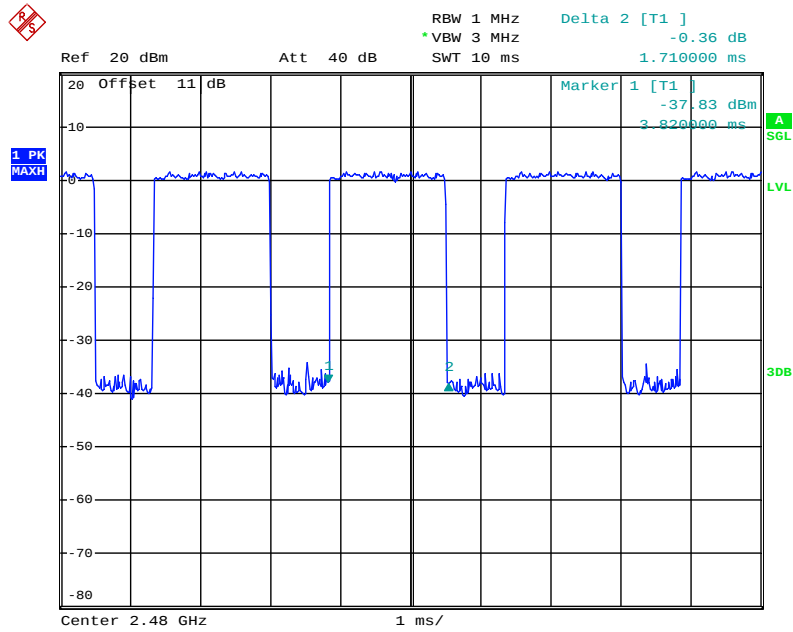
Date: 20.DEC.2017 14:02:21

3DH3 Middle channel



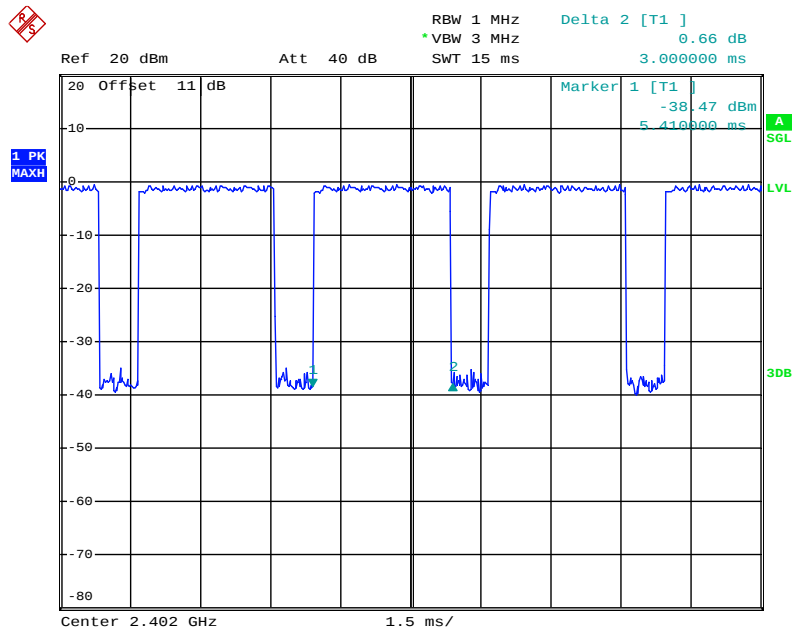
Date: 20.DEC.2017 14:03:06

3DH3 High channel



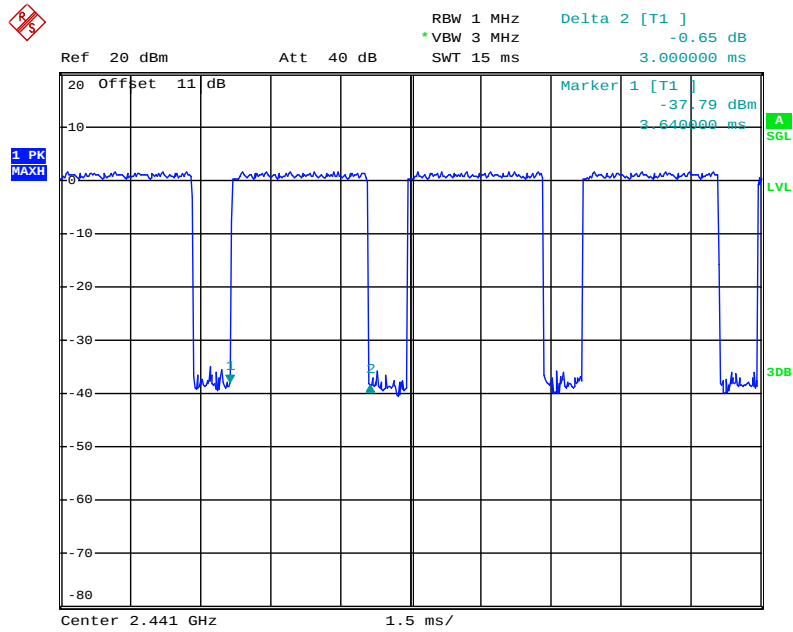
Date: 20.DEC.2017 14:03:45

3DH5 Low channel



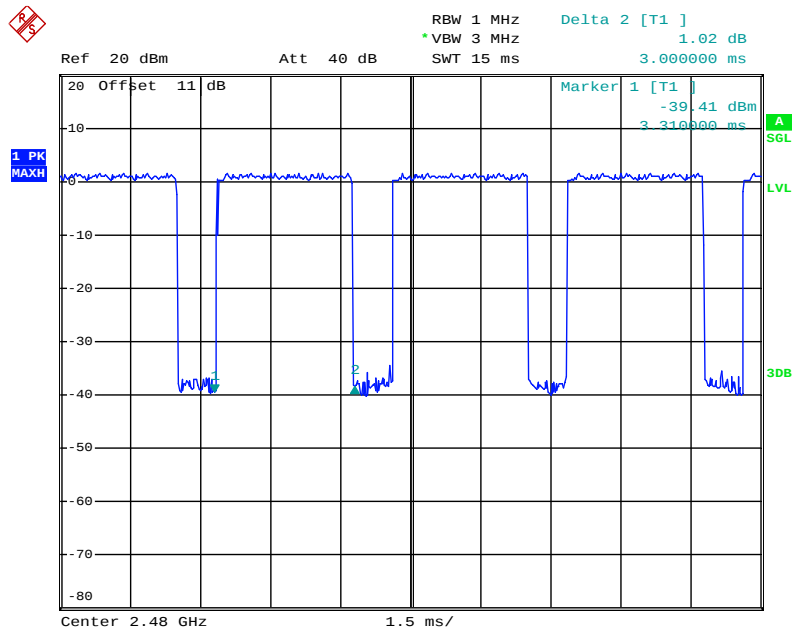
Date: 20.DEC.2017 14:07:25

3DH5 Middle channel



Date: 20.DEC.2017 14:05:42

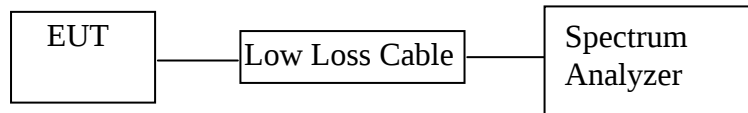
3DH5 High channel



Date: 20.DEC.2017 14:06:13

9. MAXIMUM PEAK OUTPUT POWER TEST

9.1. Block Diagram of Test Setup



(EUT: Active Noise Cancelling Wireless BT Headphone)

9.2. The Requirement For Section 15.247(b)(1)

Section 15.247(b)(1): For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

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 (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

9.5. Test Procedure

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

9.5.2. Set RBW of spectrum analyzer to 3MHz and VBW to 3MHz.

9.5.3. Measurement the maximum peak output power.

9.6.Test Result

GFSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W
Low	2402	3.03/0.0020	21 / 0.125
Middle	2441	4.16/0.0026	21 / 0.125
High	2480	4.20/0.0026	21 / 0.125

II/4-DQPSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W
Low	2402	0.56/0.0011	21 / 0.125
Middle	2441	2.69/0.0019	21 / 0.125
High	2480	2.67/0.0018	21 / 0.125

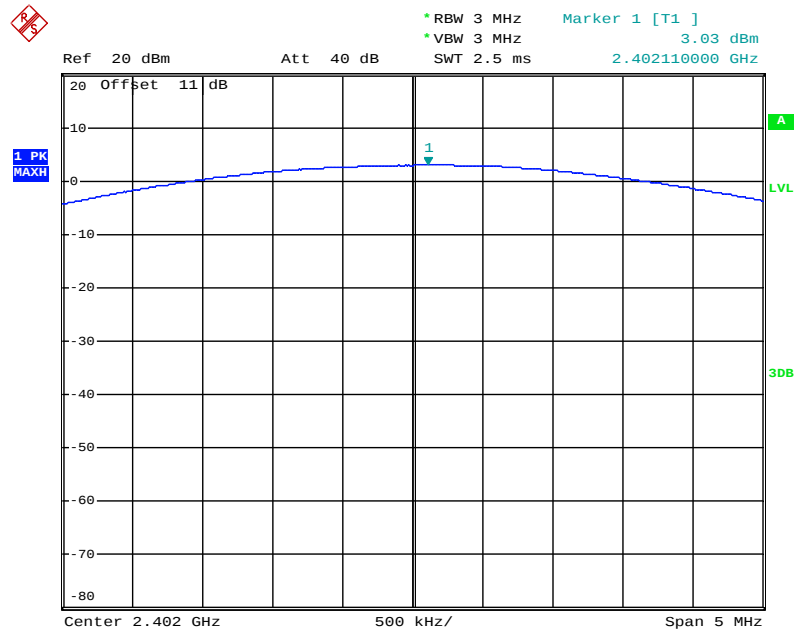
8DPSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W
Low	2402	0.64/0.0012	21 / 0.125
Middle	2441	2.42/0.0017	21 / 0.125
High	2480	2.27/0.0017	21 / 0.125

The spectrum analyzer plots are attached as below.

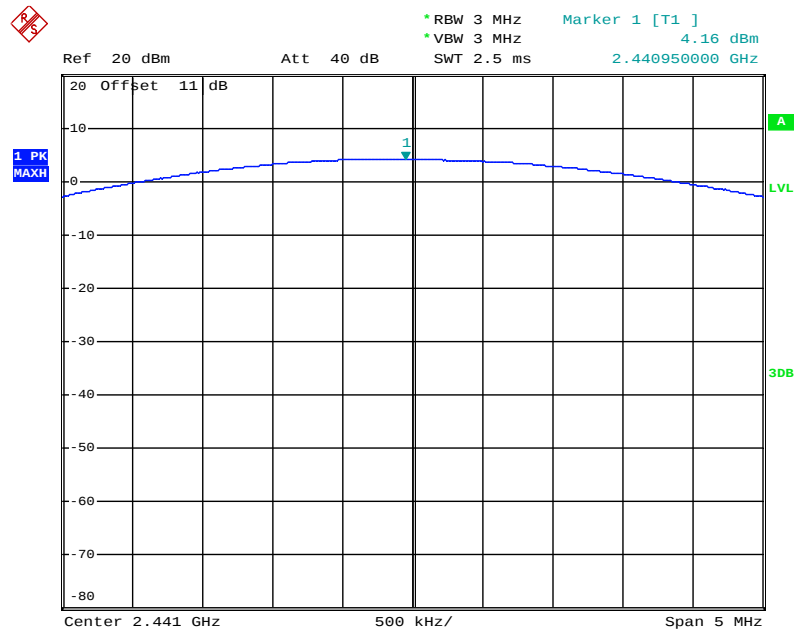
GFSK Mode

Low channel



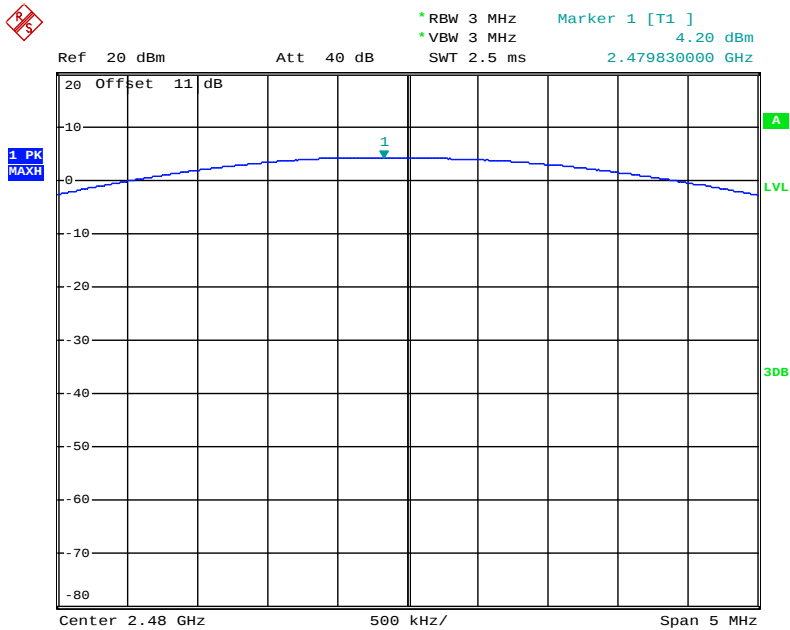
Date: 20.DEC.2017 09:58:49

Middle channel



Date: 20.DEC.2017 09:59:25

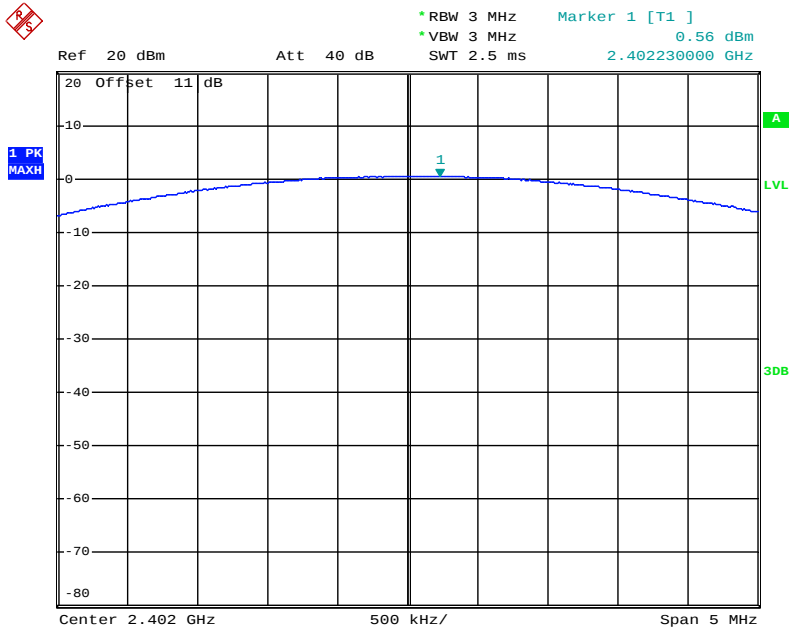
High channel



Date: 20.DEC.2017 09:59:49

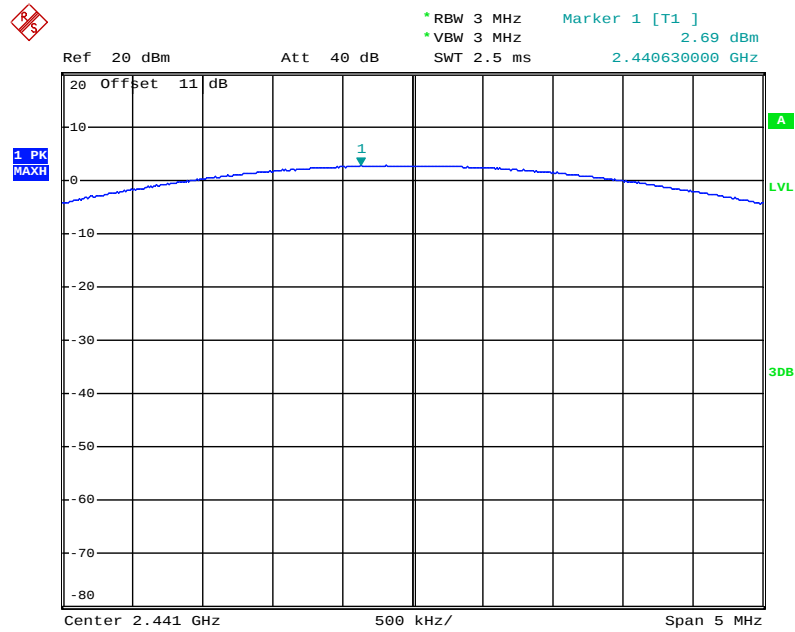
II/4-DQPSK Mode

Low channel



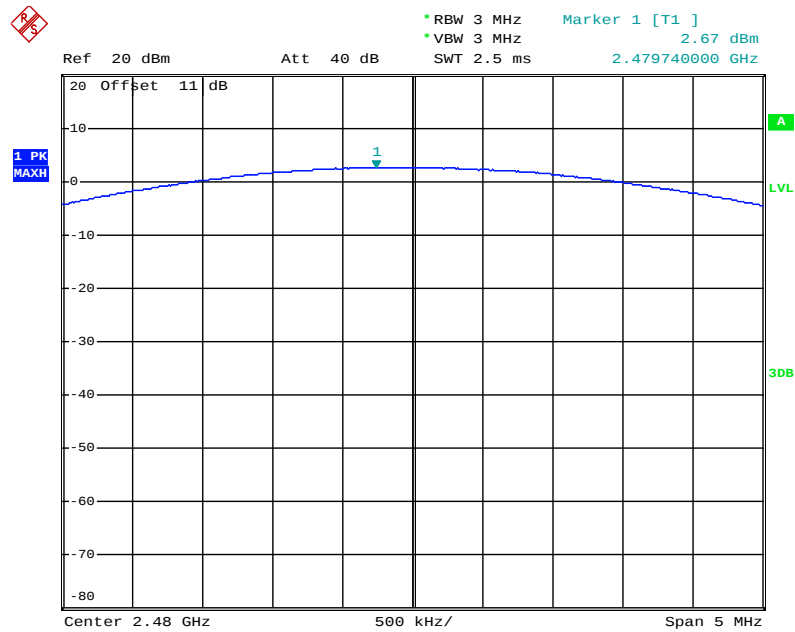
Date: 20.DEC.2017 09:55:46

Middle channel



Date: 20.DEC.2017 09:56:29

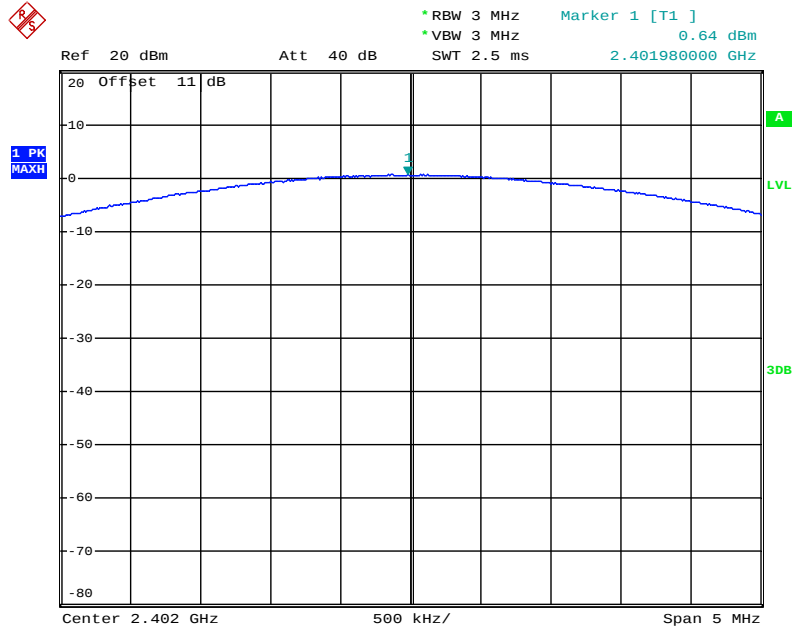
High channel



Date: 20.DEC.2017 09:57:45

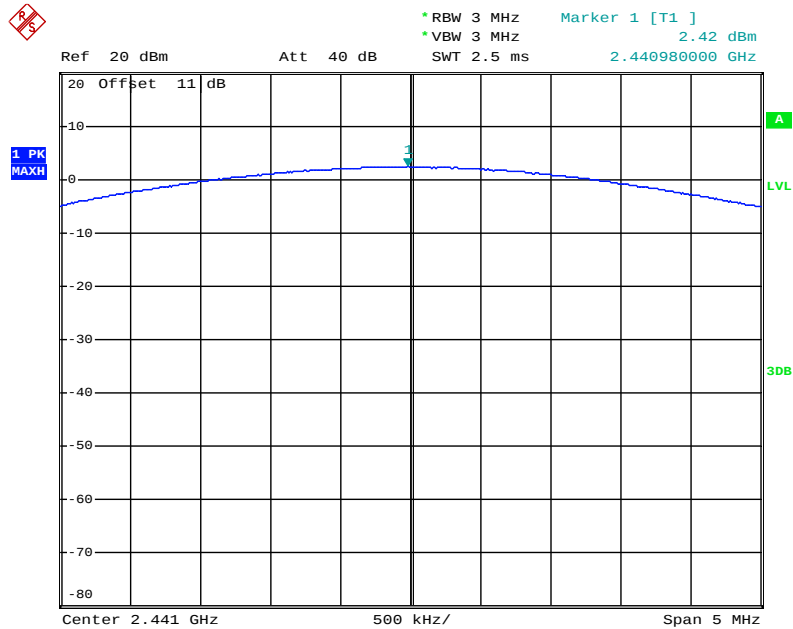
8DPSK Mode

Low channel



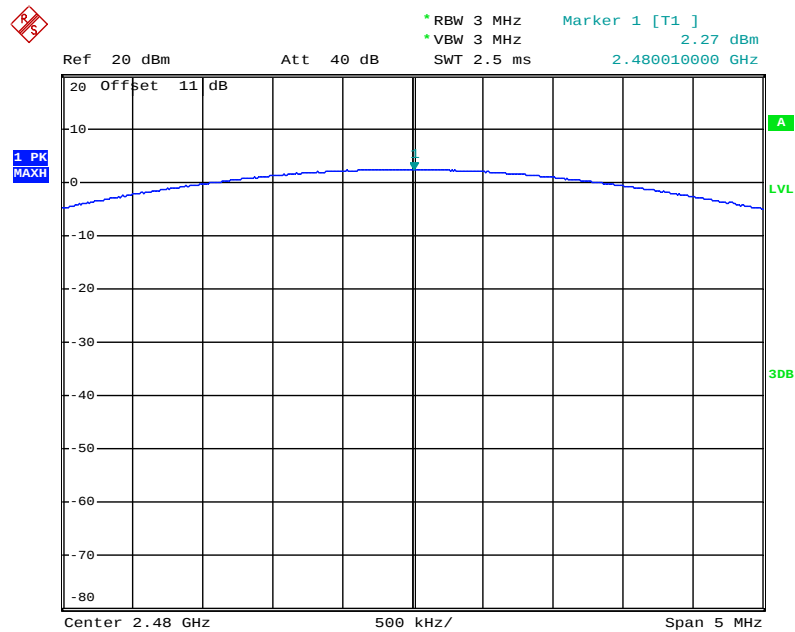
Date: 20.DEC.2017 09:54:21

Middle channel



Date: 20.DEC.2017 09:53:31

High channel

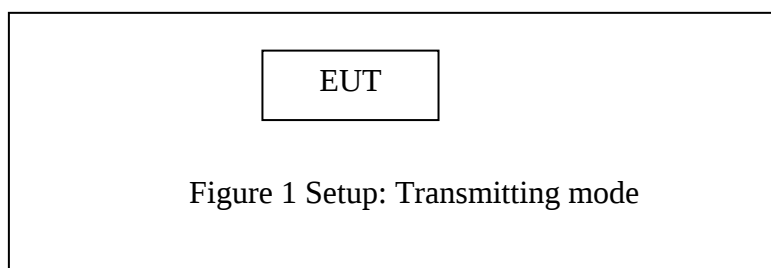


Date: 20.DEC.2017 09:52:50

10.RADIATED EMISSION TEST

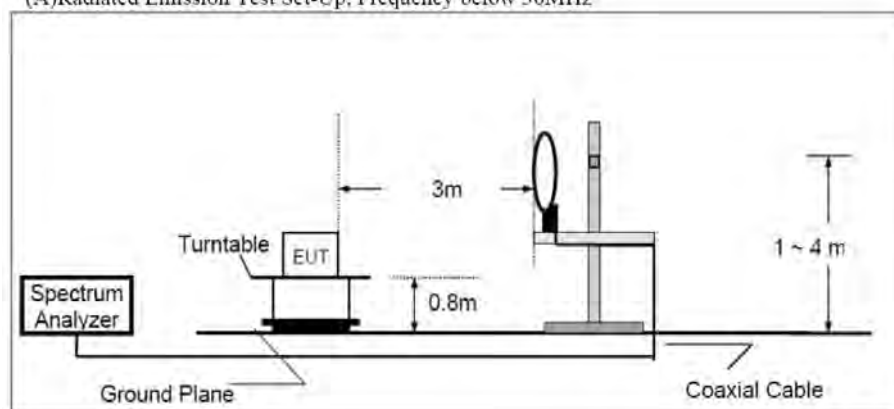
10.1.Block Diagram of Test Setup

10.1.1.Block diagram of connection between the EUT and peripherals

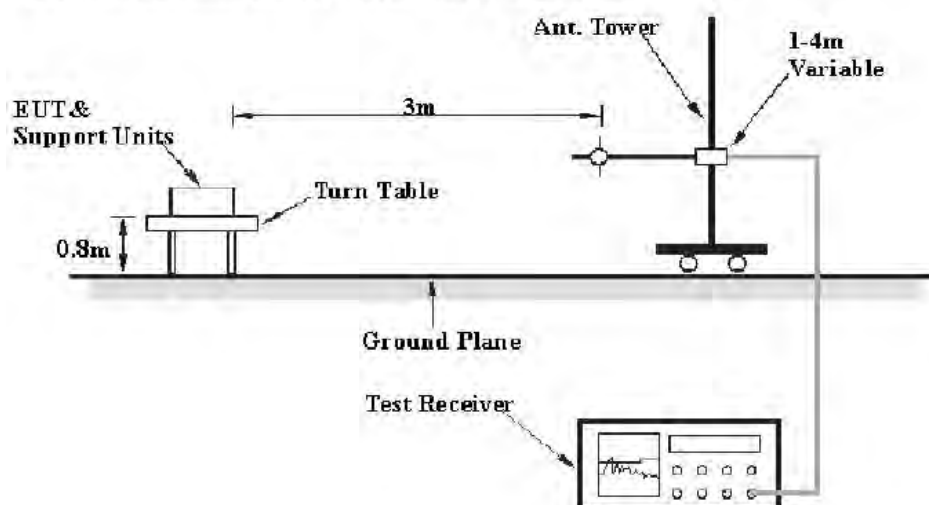


10.1.2.Semi-Anechoic Chamber Test Setup Diagram

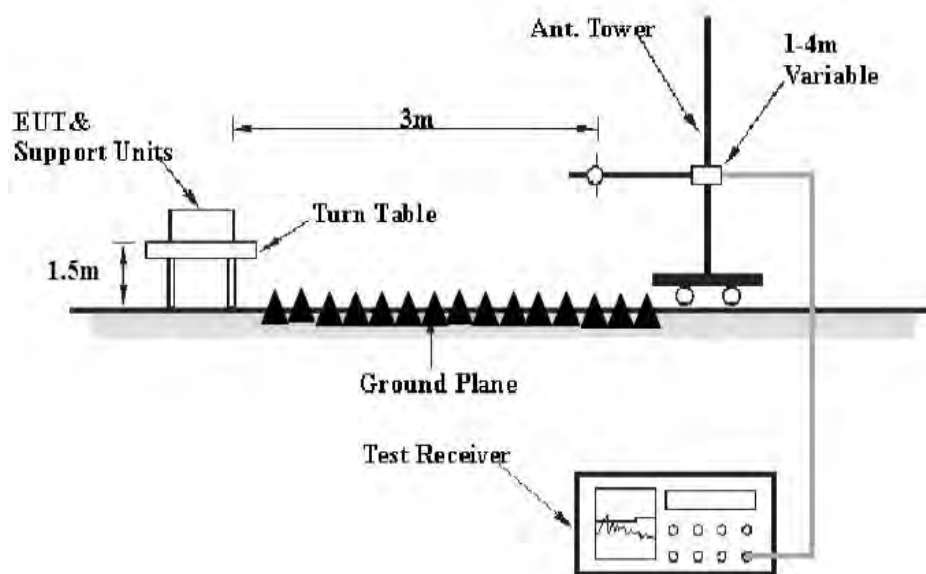
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency 30MHz-1GHz



(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 Section15.209 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 is 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, 2441MHz, 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. This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

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
X.XX	28.66	-15.19	13.47	40.0	-26.53	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.We tested GFSK mode, $\Pi/4$ -DQPSK Mode & 8QPSK mode and recorded the worst case data (GFSK mode) for all test mode.

2. Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

The measurements greater than 20dB below the limit from 9kHz to 30MHz and 18 to 25GHz.

The spectrum analyzer plots are attached as below.

Below 1GHz



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR2017 #1266

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2402MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Horizontal

Power Source: DC 3.7V

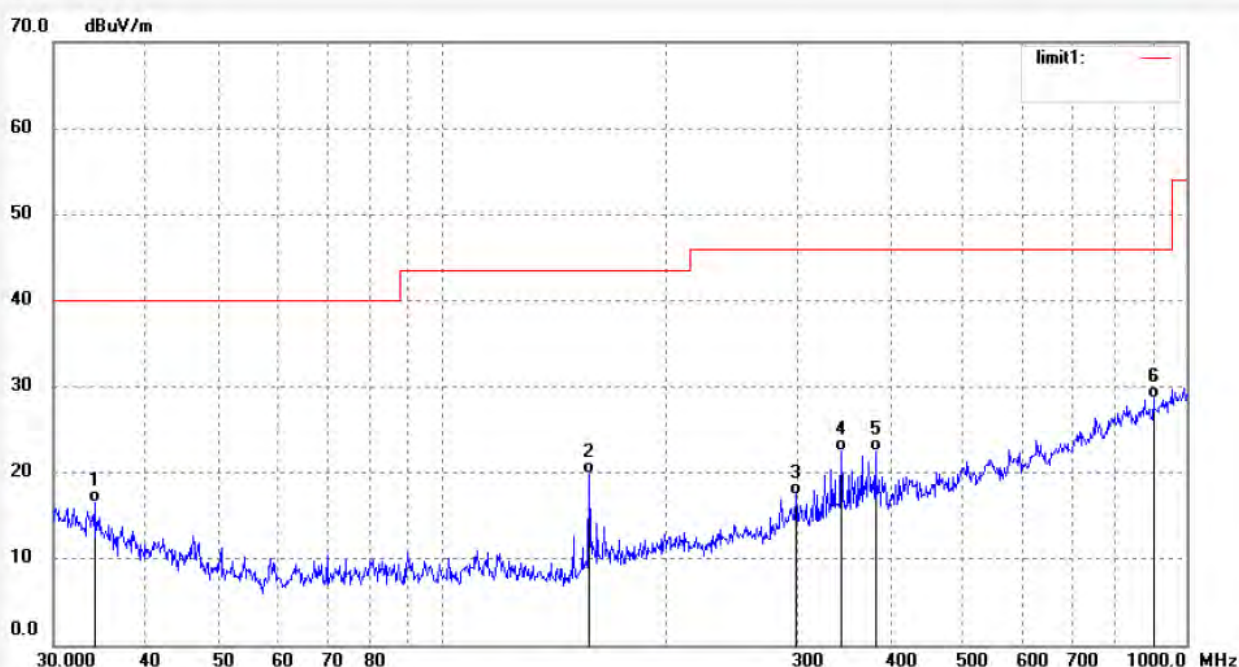
Date: 2017/12/21

Time: 13:40:45

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.0451	37.74	-21.22	16.52	40.00	-23.48	QP	200	41	
2	157.5290	47.18	-27.34	19.84	43.50	-23.66	QP	200	214	
3	298.5932	38.78	-21.28	17.50	46.00	-28.50	QP	200	102	
4	343.6506	42.00	-19.58	22.42	46.00	-23.58	QP	200	203	
5	381.8520	41.10	-18.60	22.50	46.00	-23.50	QP	200	247	
6	903.1253	35.84	-7.14	28.70	46.00	-17.30	QP	200	324	



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR2017 #1267

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2402MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Vertical

Power Source: DC 3.7V

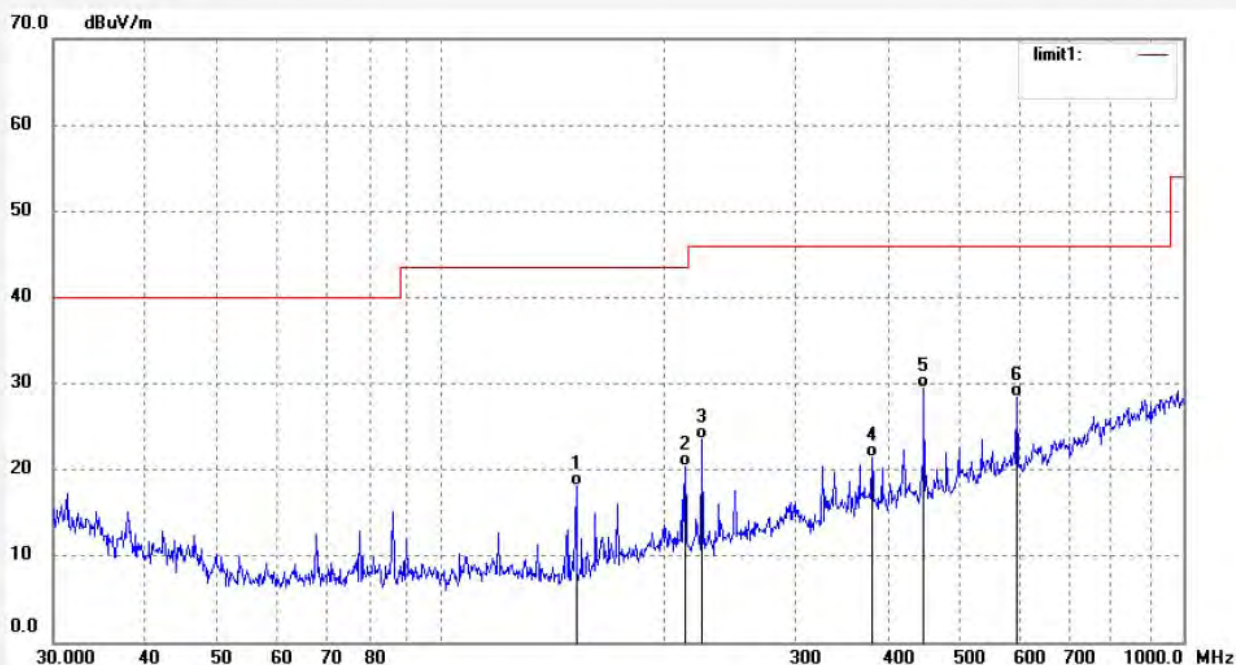
Date: 2017/12/21

Time: 13:41:30

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	152.0902	45.94	-27.87	18.07	43.50	-25.43	QP	100	147	
2	213.1035	44.50	-24.08	20.42	43.50	-23.08	QP	100	241	
3	224.6361	47.51	-23.94	23.57	46.00	-22.43	QP	100	44	
4	380.5126	39.97	-18.61	21.36	46.00	-24.64	QP	100	292	
5	447.2619	46.75	-17.32	29.43	46.00	-16.57	QP	100	166	
6	596.6068	42.16	-13.76	28.40	46.00	-17.60	QP	100	207	



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Job No.: STAR2017 #1269

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2441MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Horizontal

Power Source: DC 3.7V

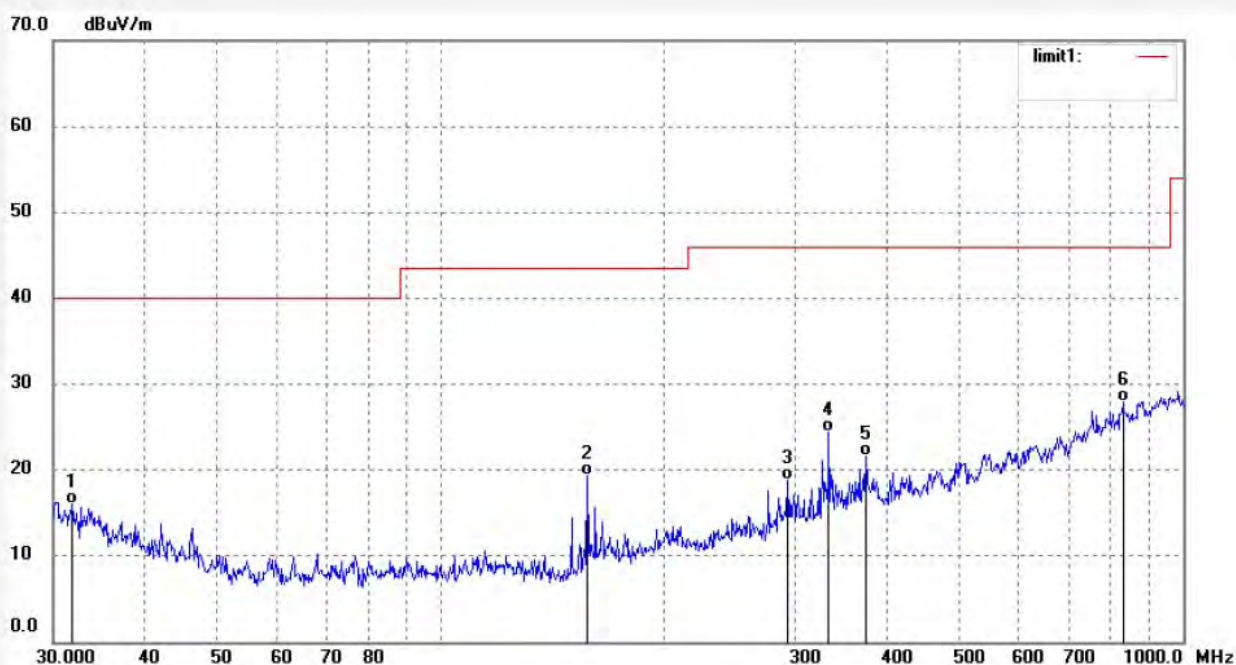
Date: 2017/12/21

Time: 13:43:41

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	31.8465	36.72	-20.66	16.06	40.00	-23.94	QP	200	44	
2	157.5290	46.72	-27.34	19.38	43.50	-24.12	QP	200	111	
3	293.3933	40.28	-21.51	18.77	46.00	-27.23	QP	200	78	
4	332.9536	44.35	-19.99	24.36	46.00	-21.64	QP	200	232	
5	373.8861	40.38	-18.71	21.67	46.00	-24.33	QP	200	256	
6	830.0909	36.37	-8.39	27.98	46.00	-18.02	QP	200	324	



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Job No.: STAR2017 #1268

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2441MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Vertical

Power Source: DC 3.7V

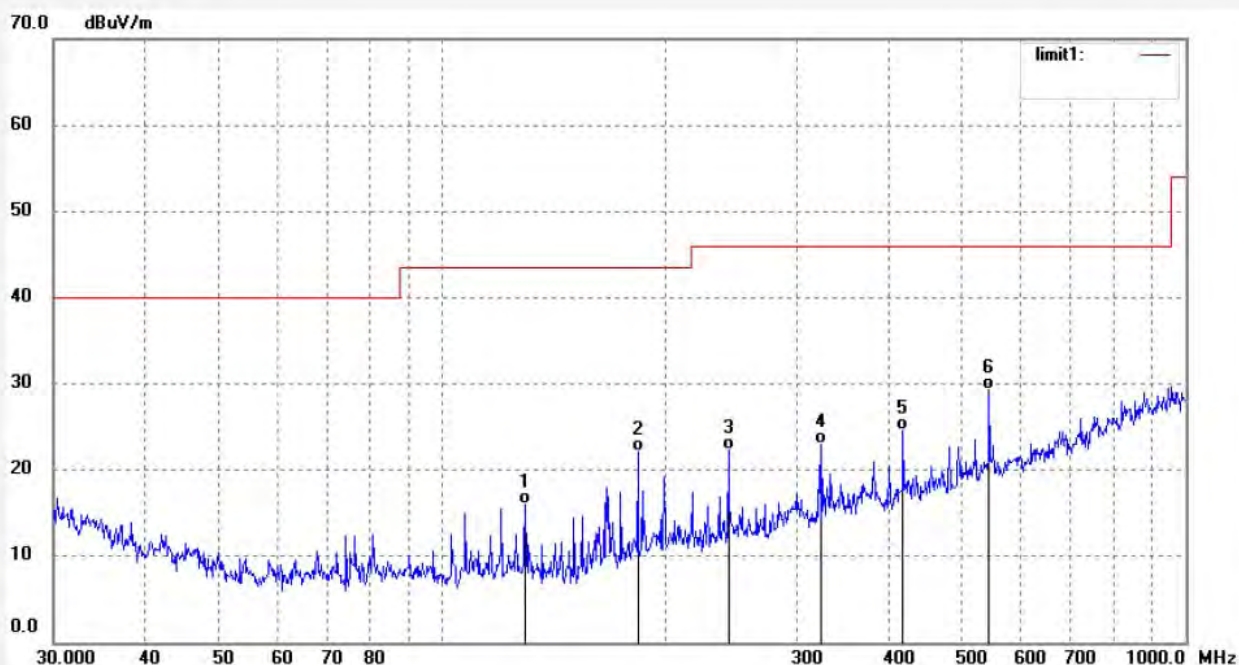
Date: 2017/12/21

Time: 13:42:31

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	129.3923	43.79	-27.70	16.09	43.50	-27.41	QP	100	242	
2	183.2211	47.87	-25.71	22.16	43.50	-21.34	QP	100	142	
3	242.6888	45.98	-23.70	22.28	46.00	-23.72	QP	100	189	
4	323.7250	43.52	-20.45	23.07	46.00	-22.93	QP	100	200	
5	416.9108	42.57	-18.04	24.53	46.00	-21.47	QP	100	214	
6	544.5202	44.36	-14.97	29.39	46.00	-16.61	QP	100	236	



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Job No.: STAR2017 #1270

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2480MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Horizontal

Power Source: DC 3.7V

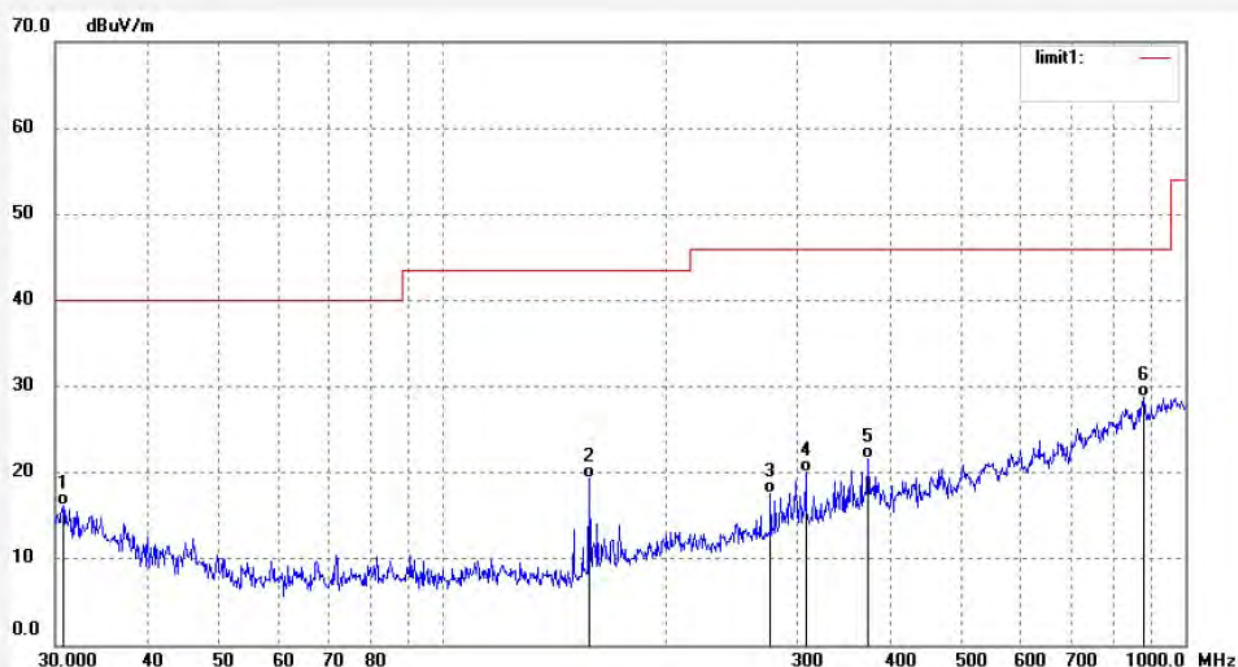
Date: 2017/12/21

Time: 13:44:29

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	30.7470	36.51	-20.39	16.12	40.00	-23.88	QP	200	233	
2	157.5290	46.71	-27.34	19.37	43.50	-24.13	QP	200	24	
3	276.3818	39.86	-22.33	17.53	46.00	-28.47	QP	200	165	
4	308.1862	41.02	-21.00	20.02	46.00	-25.98	QP	200	128	
5	373.8861	40.35	-18.71	21.64	46.00	-24.36	QP	200	344	
6	881.1838	36.29	-7.50	28.79	46.00	-17.21	QP	200	253	



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Job No.: STAR2017 #1271

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2480MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Vertical

Power Source: DC 3.7V

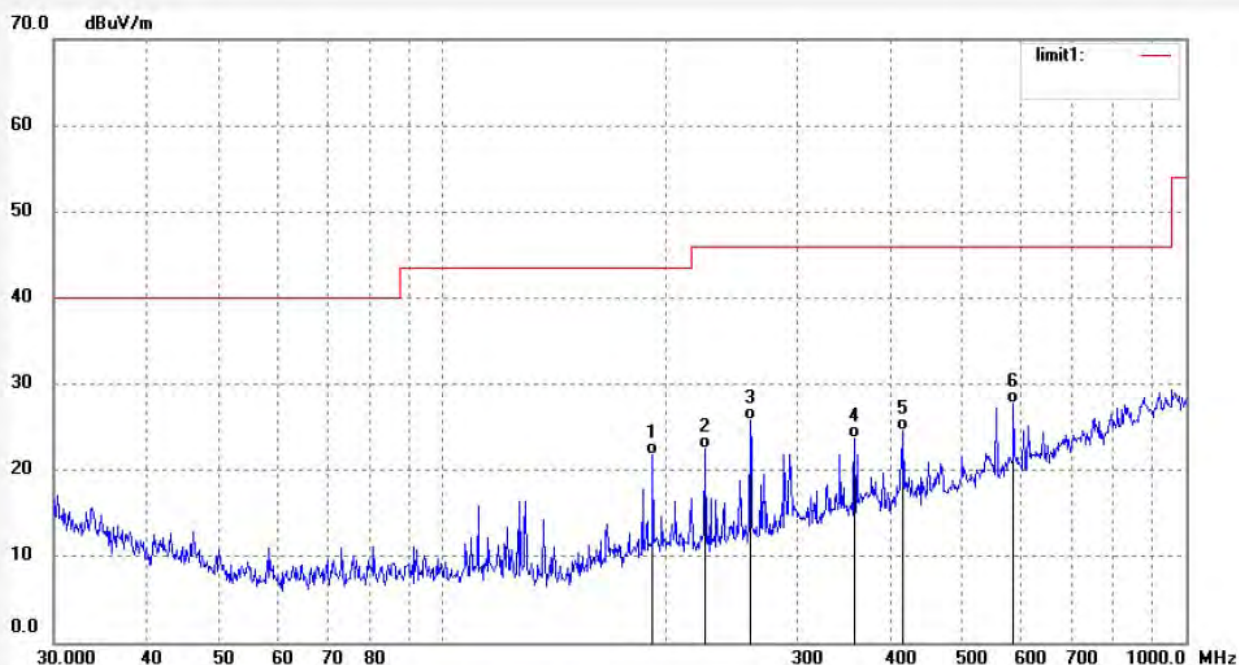
Date: 2017/12/21

Time: 13:45:40

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	191.7840	46.81	-24.95	21.86	43.50	-21.64	QP	100	222	
2	225.4267	46.34	-23.93	22.41	46.00	-23.59	QP	100	266	
3	259.4433	48.80	-23.07	25.73	46.00	-20.27	QP	100	21	
4	358.4497	42.68	-18.98	23.70	46.00	-22.30	QP	100	152	
5	416.9108	42.69	-18.04	24.65	46.00	-21.35	QP	100	156	
6	586.2172	41.75	-13.98	27.77	46.00	-18.23	QP	100	206	

Above 1GHz



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Job No.: STAR2017 #1273

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2402MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Horizontal

Power Source: DC 3.7V

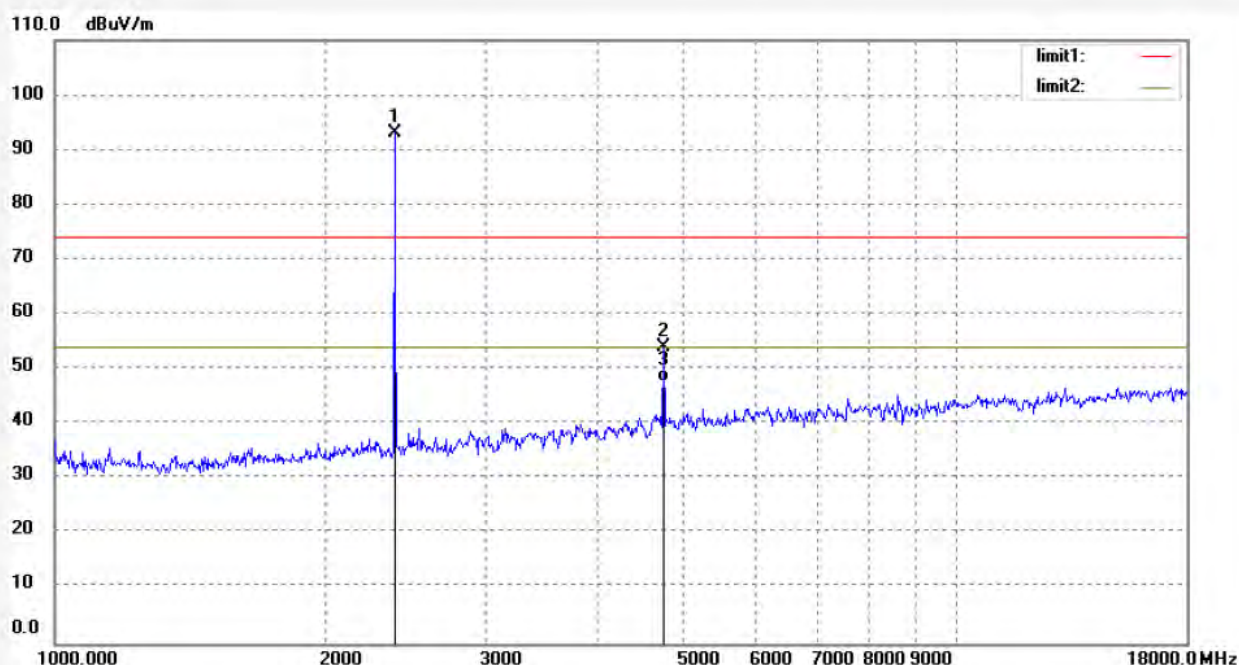
Date: 2017/12/21

Time: 13:51:11

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.019	99.41	-6.37	93.04			peak	200	140	
2	4804.057	53.43	0.70	54.13	74.00	-19.87	peak	200	240	
3	4804.057	47.12	0.70	47.82	54.00	-6.18	AVG	200	311	

Note: Average measurement with peak detection at No.3



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Job No.: STAR2017 #1272

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2402MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Vertical

Power Source: DC 3.7V

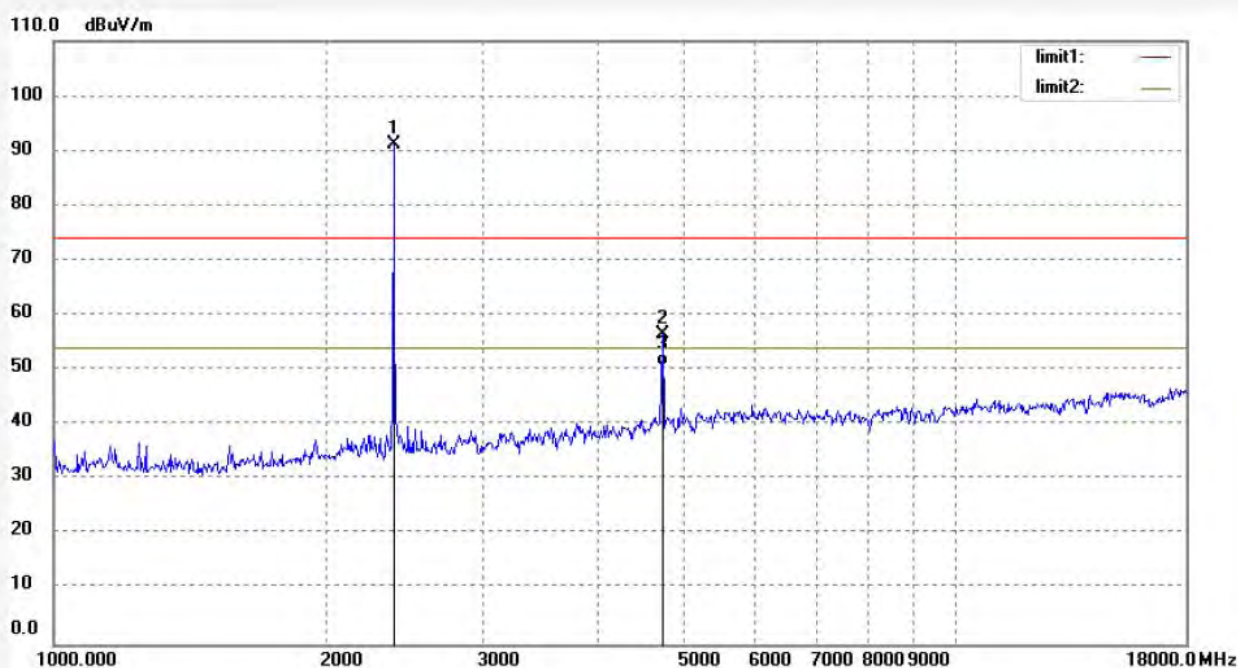
Date: 2017/12/21

Time: 13:49:42

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.019	97.43	-6.37	91.06			peak	150	210	
2	4804.057	55.93	0.70	56.63	74.00	-17.37	peak	150	214	
3	4804.057	50.10	0.70	50.80	54.00	-3.20	AVG	150	200	

Note: Average measurement with peak detection at No.3



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Job No.: STAR2017 #1274

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2441MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Horizontal

Power Source: DC 3.7V

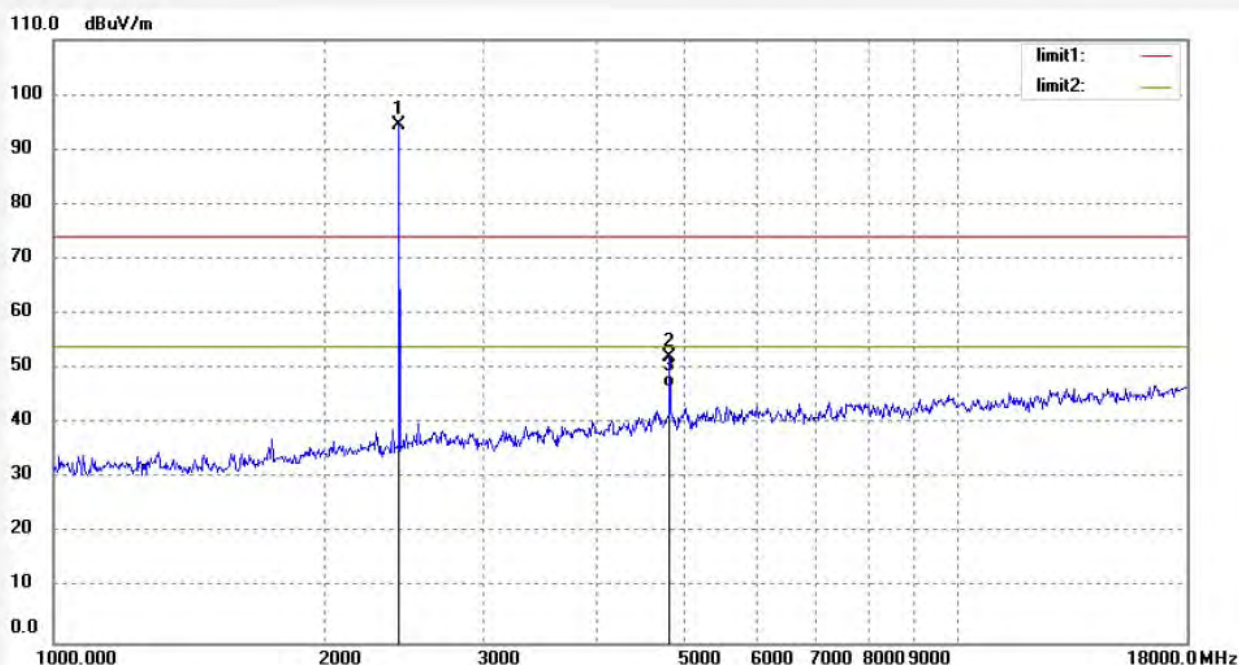
Date: 2017/12/21

Time: 13:53:12

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.021	100.56	-6.20	94.36			peak	200	78	
2	4882.324	50.96	1.07	52.03	74.00	-21.97	peak	200	102	
3	4882.324	45.63	1.07	46.70	54.00	-7.30	AVG	200	116	

Note: Average measurement with peak detection at No.3



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Job No.: STAR2017 #1275

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2441MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Vertical

Power Source: DC 3.7V

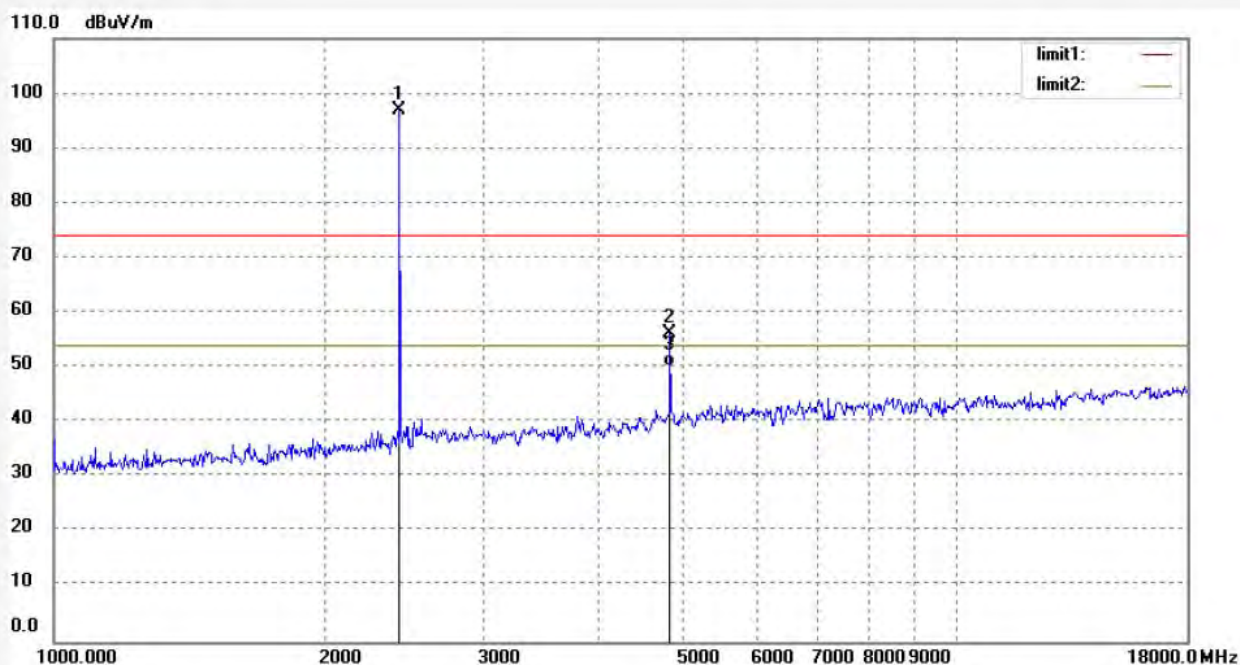
Date: 2017/12/21

Time: 13:54:49

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.021	103.02	-6.20	96.82			peak	150	99	
2	4882.324	55.13	1.07	56.20	74.00	-17.80	peak	150	135	
3	4882.324	49.00	1.07	50.07	54.00	-3.93	AVG	150	251	

Note: Average measurement with peak detection at No.3



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Job No.: STAR2017 #1277

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2480MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Horizontal

Power Source: DC 3.7V

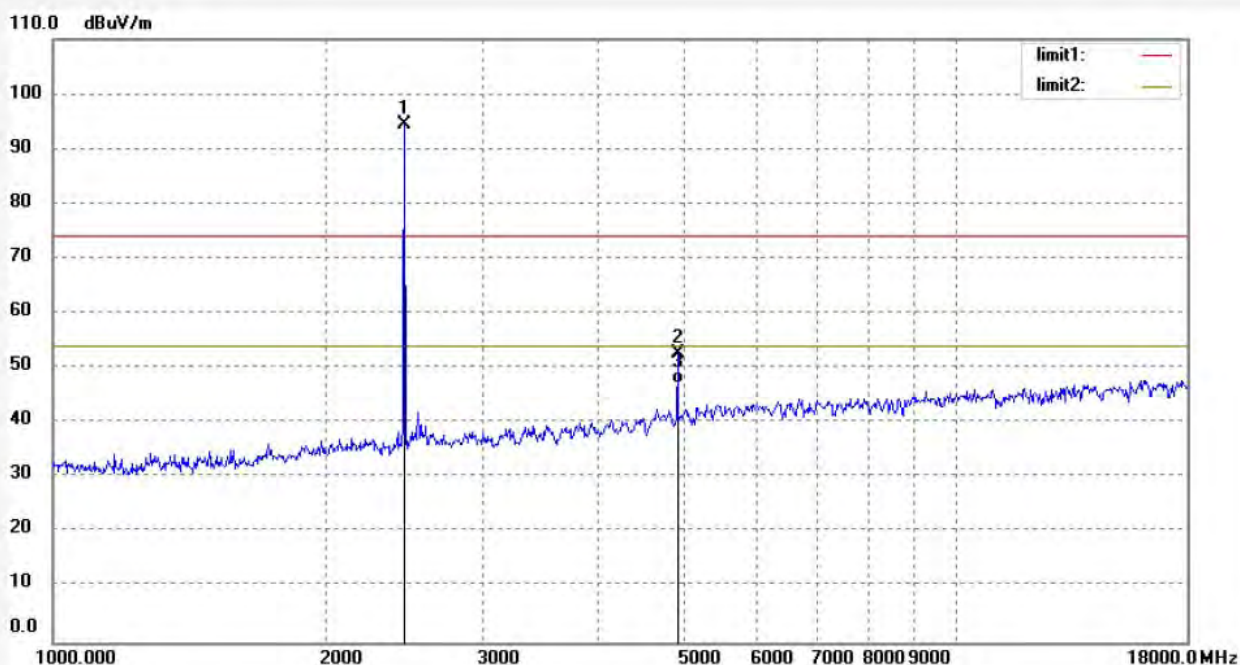
Date: 2017/12/21

Time: 13:59:49

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.034	100.42	-6.04	94.38			peak	200	110	
2	4960.044	51.03	1.50	52.53	74.00	-21.47	peak	200	123	
3	4960.044	45.59	1.50	47.09	54.00	-6.91	AVG	200	254	

Note: Average measurement with peak detection at No.3



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Job No.: STAR2017 #1276

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2480MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Vertical

Power Source: DC 3.7V

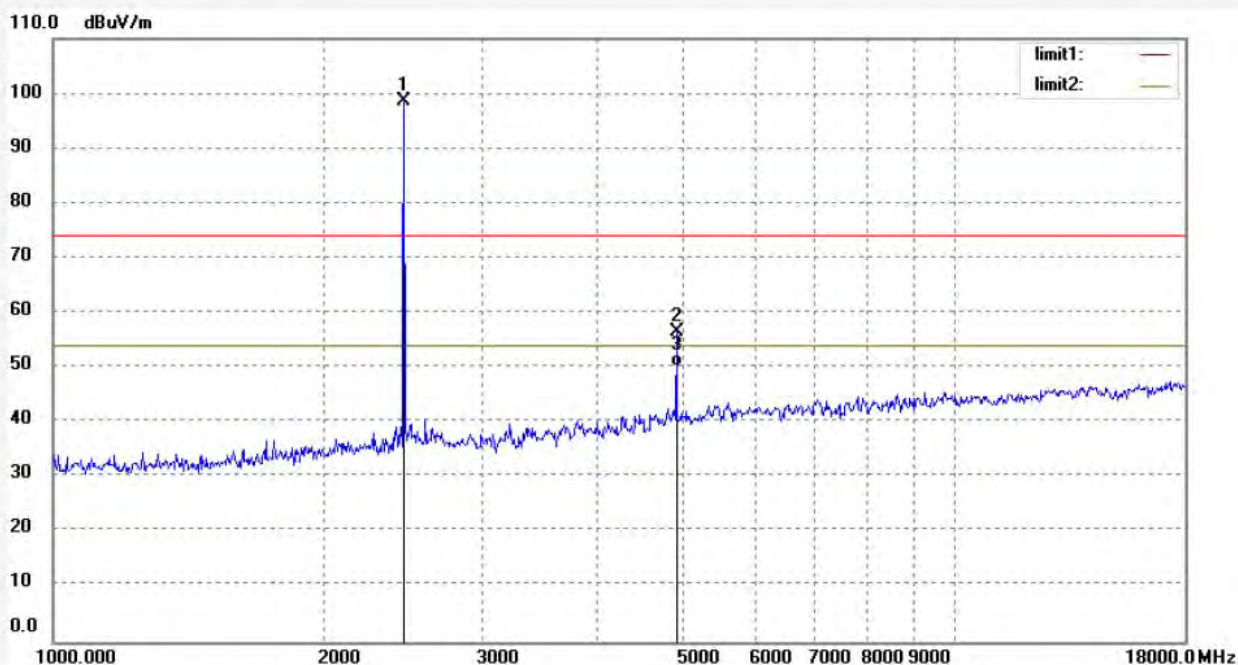
Date: 2017/12/21

Time: 13:56:34

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531

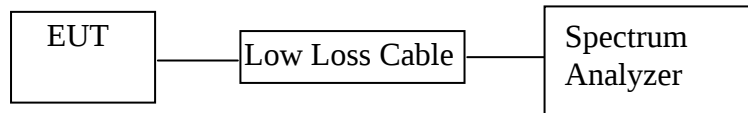


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.034	104.50	-6.04	98.46			peak	150	265	
2	4960.044	54.91	1.50	56.41	74.00	-17.59	peak	150	223	
3	4960.444	48.63	1.50	50.13	54.00	-3.87	AVG	150	244	

Note: Average measurement with peak detection at No.3

11.BAND EDGE COMPLIANCE TEST

11.1.Block Diagram of Test Setup



(EUT: Active Noise Cancelling Wireless BT Headphone)

11.2.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).

11.3.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.

11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

11.4.3.Let the EUT work in TX (Hopping off, Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

11.5. Test Procedure

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

11.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz with convenient frequency span including 100 kHz bandwidth from band edge.

11.5.3. The band edges was measured and recorded.

11.6. Test Result

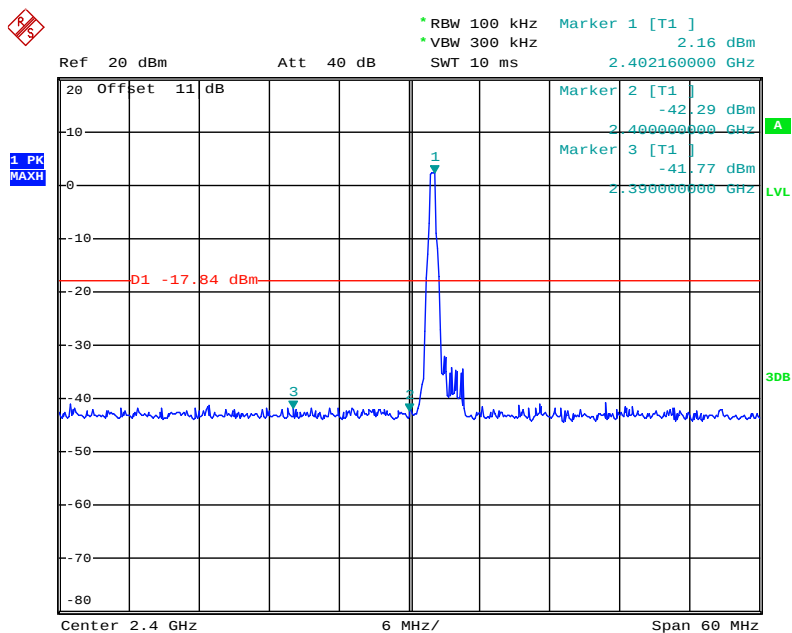
Note: Both hopping-on mode and hopping-off mode had been pre-tested, and only the worst case was recorded in the test report.

Non-hopping mode

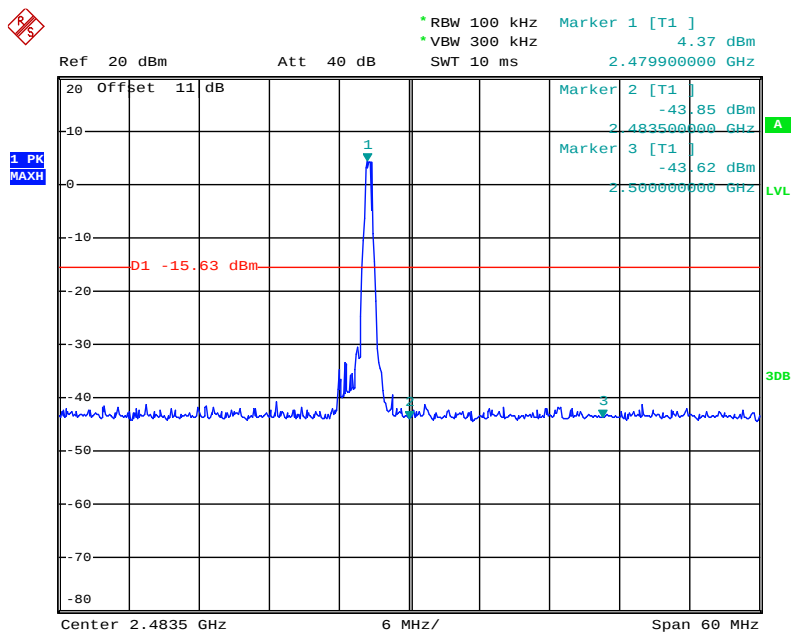
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
GFSK Mode		
2400.00	44.45	> 20dBc
2483.50	48.22	> 20dBc
Π/4-DQPSK Mode		
2400.00	42.00	> 20dBc
2483.50	45.59	> 20dBc
8DPSK Mode		
2400.00	42.78	> 20dBc
2483.50	45.75	> 20dBc

The spectrum analyzer plots are attached as below.

GFSK Mode

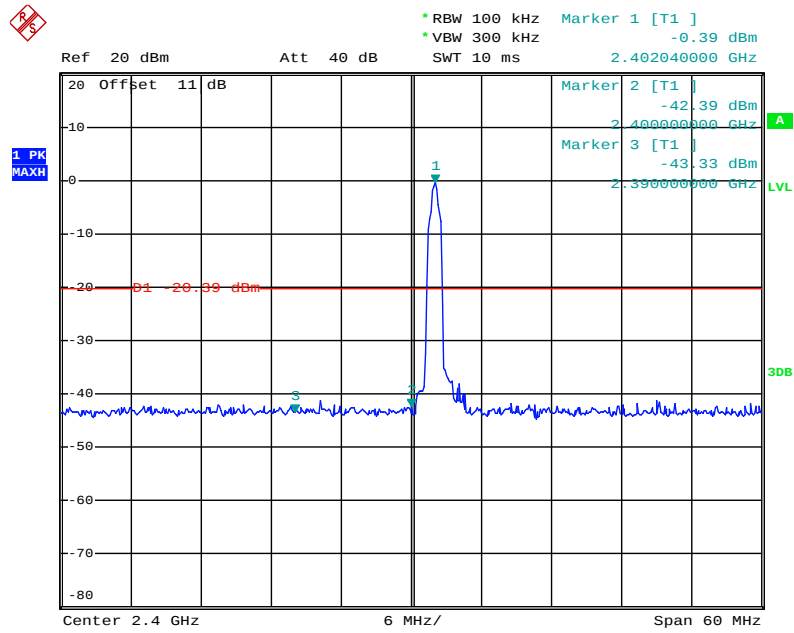


Date: 20.DEC.2017 10:11:32

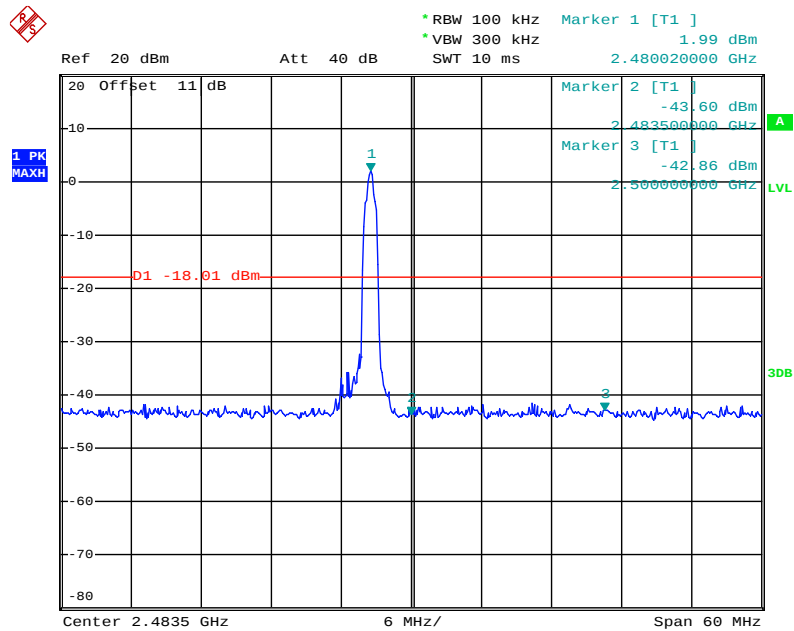


Date: 20.DEC.2017 10:13:37

Π/4-DQPSK Mode

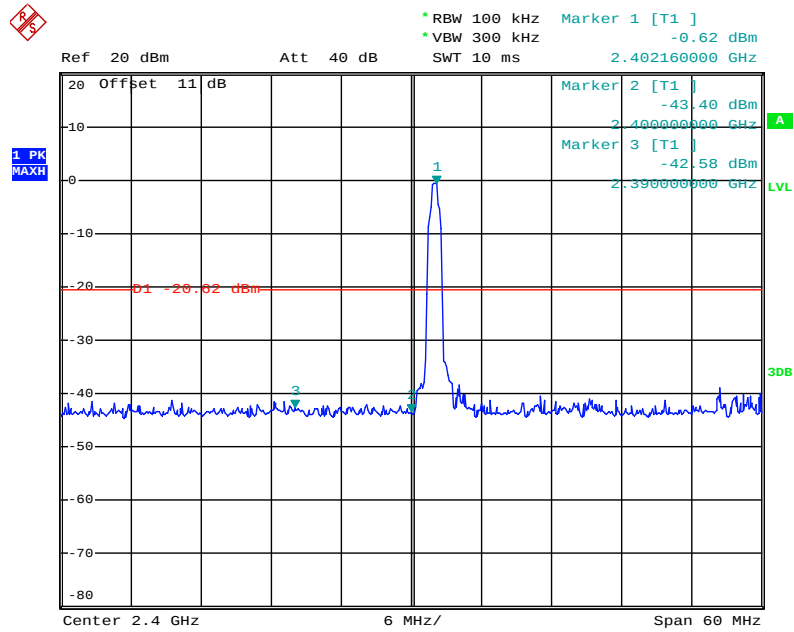


Date: 20.DEC.2017 10:15:42

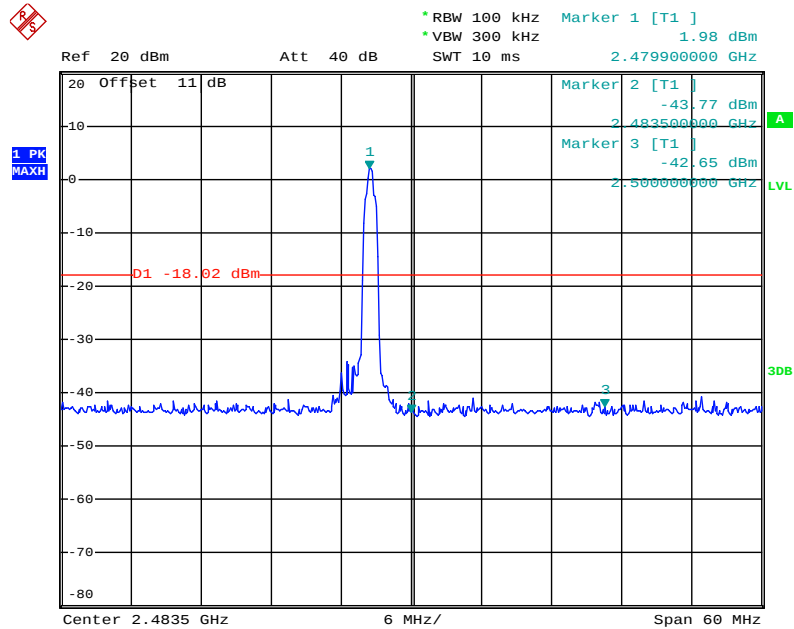


Date: 20.DEC.2017 10:14:46

8DPSK Mode



Date: 20.DEC.2017 10:16:51



Date: 20.DEC.2017 10:17:59

Radiated Band Edge Result

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.

Test Procedure:

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.

Let the EUT work in TX (Hopping off, Hopping on) modes measure it.
We select 2402MHz, 2480MHz TX frequency to transmit(Hopping off mode).
We select 2402-2480MHz TX frequency to transmit(Hopping on mode).

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 3.All modes of operation were investigated and the worst-case emissions are reported.

The spectrum analyzer plots are attached as below.

Non-hopping mode



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Job No.: STAR2017 #1278

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2402MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Horizontal

Power Source: DC 3.7V

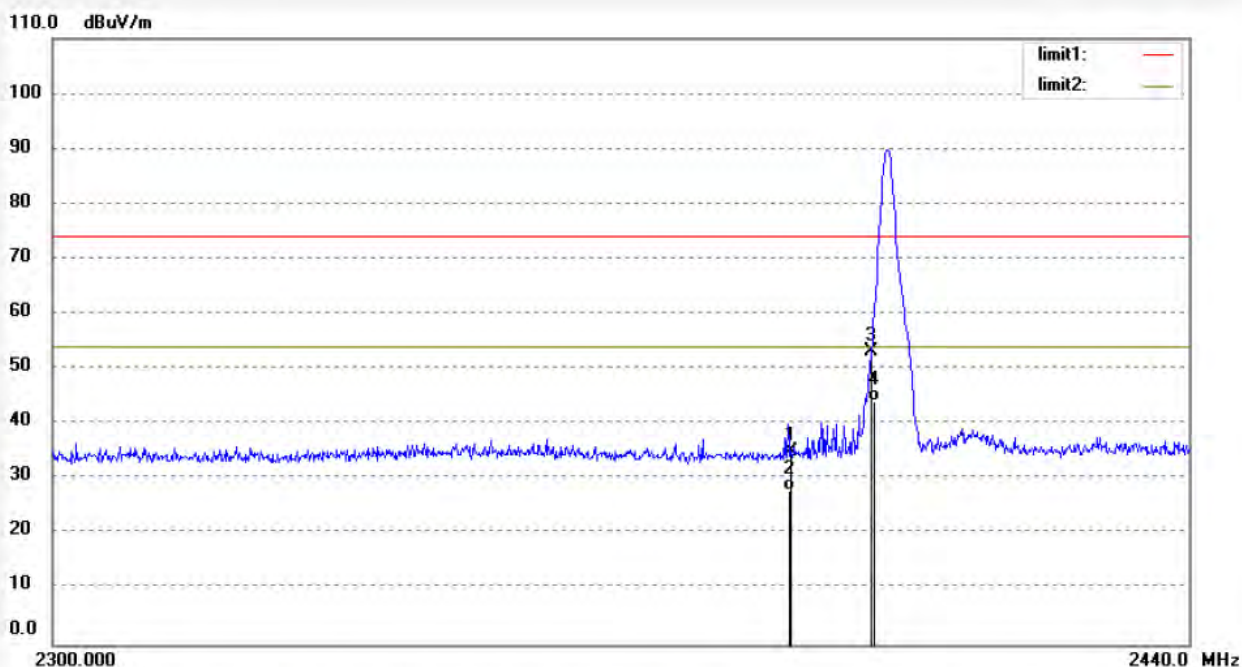
Date: 2017/12/21

Time: 14:04:20

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	41.34	-6.32	35.02	74.00	-38.98	peak	200	140	
2	2390.000	34.25	-6.32	27.93	54.00	-26.07	AVG	200	236	
3	2400.000	59.42	-6.27	53.15	74.00	-20.85	peak	200	258	
4	2400.000	50.47	-6.27	44.20	54.00	-9.80	AVG	200	55	

Note: Average measurement with peak detection at No.2&4



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

Job No.: STAR2017 #1279

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2402MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Vertical

Power Source: DC 3.7V

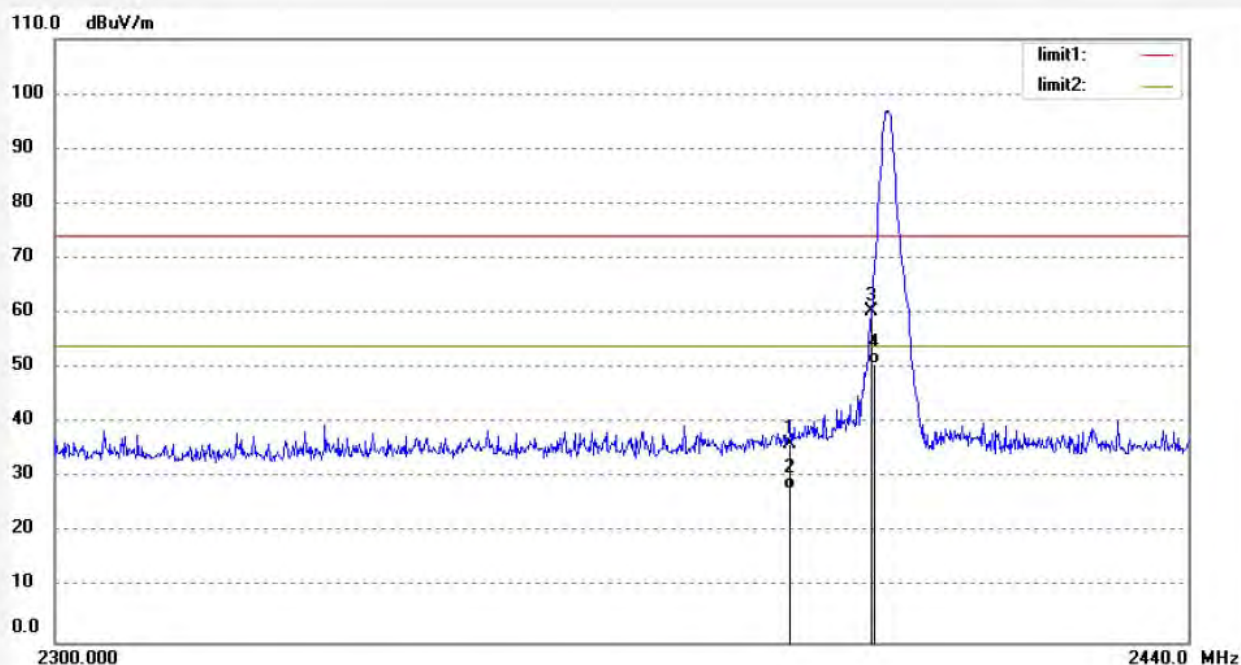
Date: 2017/12/21

Time: 14:05:46

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	42.38	-6.32	36.06	74.00	-37.94	peak	150	222	
2	2390.000	34.25	-6.32	27.93	54.00	-26.07	AVG	150	325	
3	2400.000	66.69	-6.27	60.42	74.00	-13.58	peak	150	25	
4	2400.000	57.00	-6.27	50.73	54.00	-3.27	AVG	150	54	

Note: Average measurement with peak detection at No.2&4



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Job No.: STAR2017 #1281

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2480MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Horizontal

Power Source: DC 3.7V

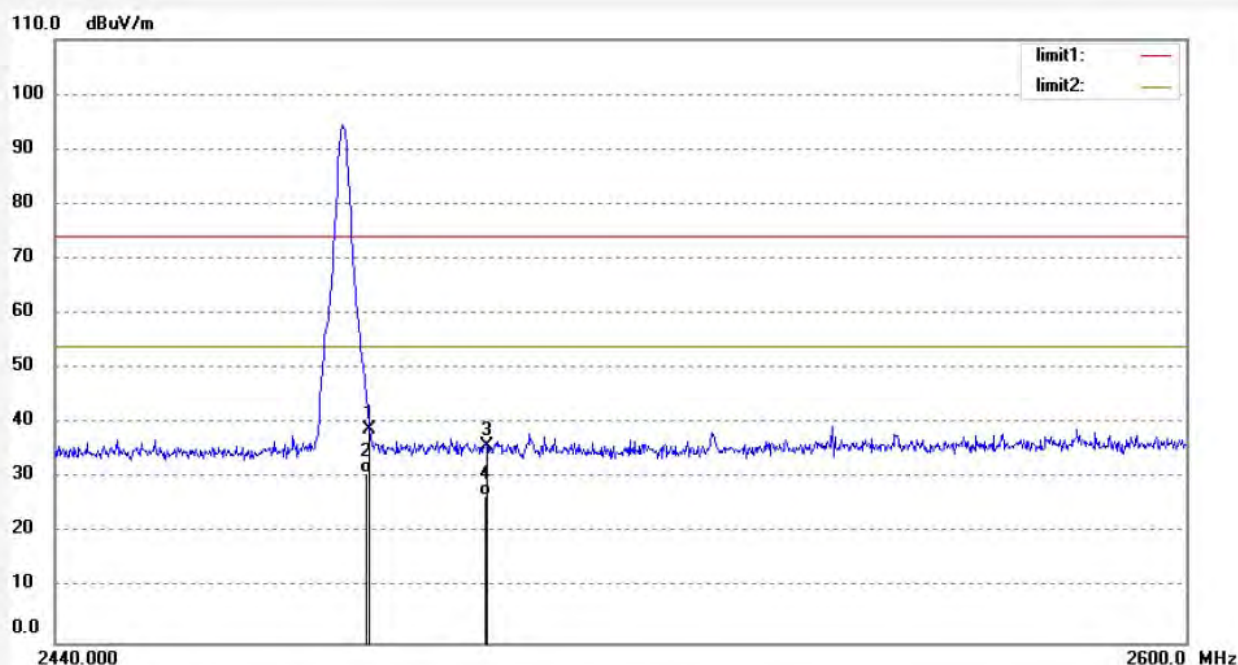
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Time: 14:08:13

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	44.74	-5.89	38.85	74.00	-35.15	peak	200	355	
2	2483.500	36.88	-5.89	30.99	54.00	-23.01	AVG	200	265	
3	2500.000	41.61	-5.81	35.80	74.00	-38.20	peak	200	241	
4	2500.000	32.61	-5.81	26.80	54.00	-27.20	AVG	200	198	

Note: Average measurement with peak detection at No.2&4



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Job No.: STAR2017 #1280

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2480MHz (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Vertical

Power Source: DC 3.7V

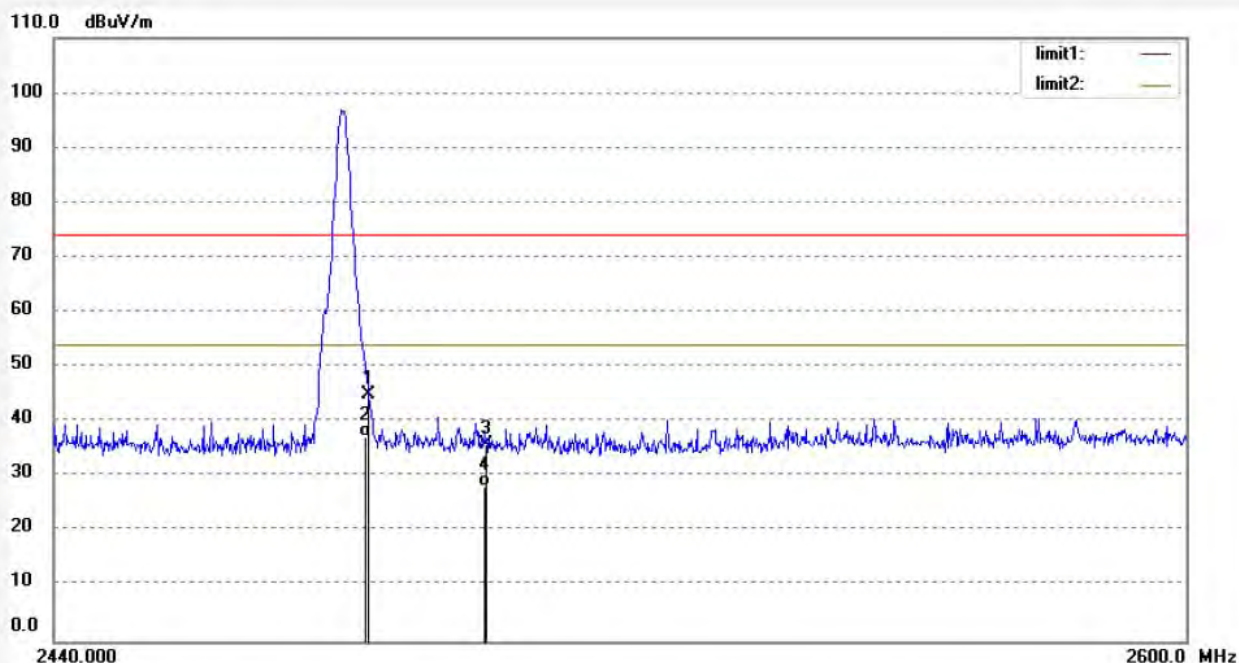
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Time: 14:07:11

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	50.76	-5.89	44.87	74.00	-29.13	peak	150	255	
2	2483.500	43.14	-5.89	37.25	54.00	-16.75	AVG	150	117	
3	2500.000	41.63	-5.81	35.82	74.00	-38.18	peak	150	119	
4	2500.000	34.03	-5.81	28.22	54.00	-25.78	AVG	150	215	

Note: Average measurement with peak detection at No.2&4



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Job No.: STAR2017 #1285

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2402MHz (π/4-DQPSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Horizontal

Power Source: DC 3.7V

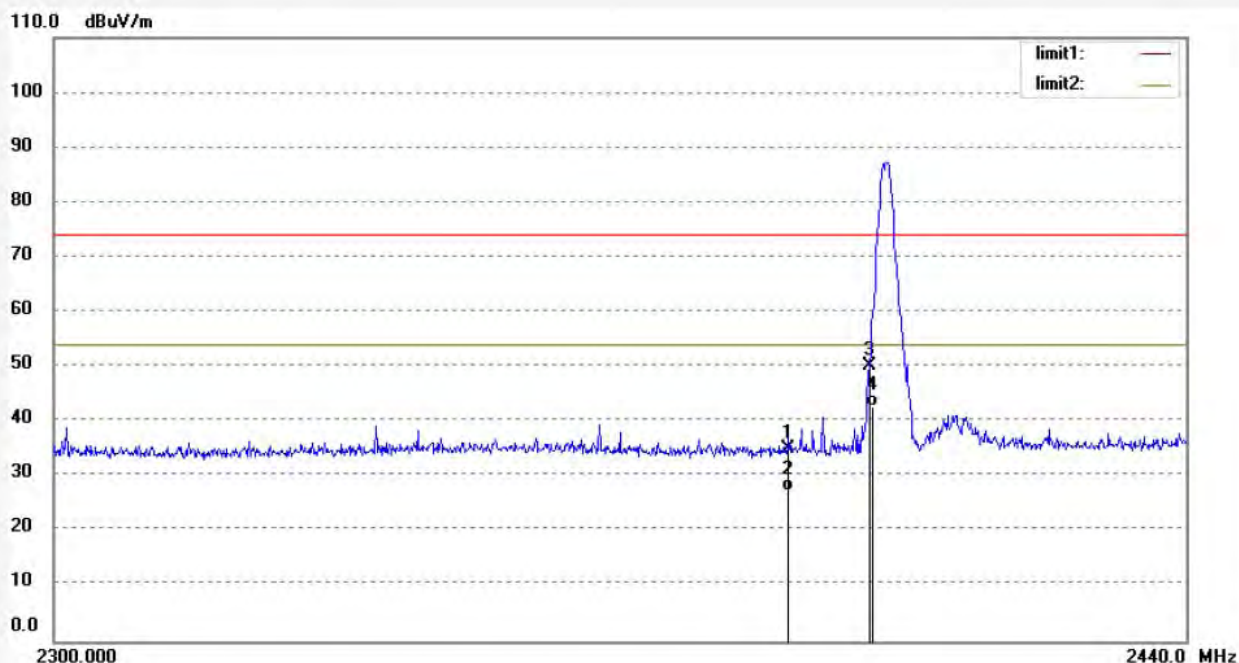
Date: 2017/12/21

Time: 14:16:48

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	41.28	-6.32	34.96	74.00	-39.04	peak	200	242	
2	2390.000	33.58	-6.32	27.26	54.00	-26.74	AVG	200	263	
3	2400.000	56.36	-6.27	50.09	74.00	-23.91	peak	200	223	
4	2400.000	49.14	-6.27	42.87	54.00	-11.13	AVG	200	69	

Note: Average measurement with peak detection at No.2&4



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Job No.: STAR2017 #1284

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2402MHz (π/4-DQPSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Vertical

Power Source: DC 3.7V

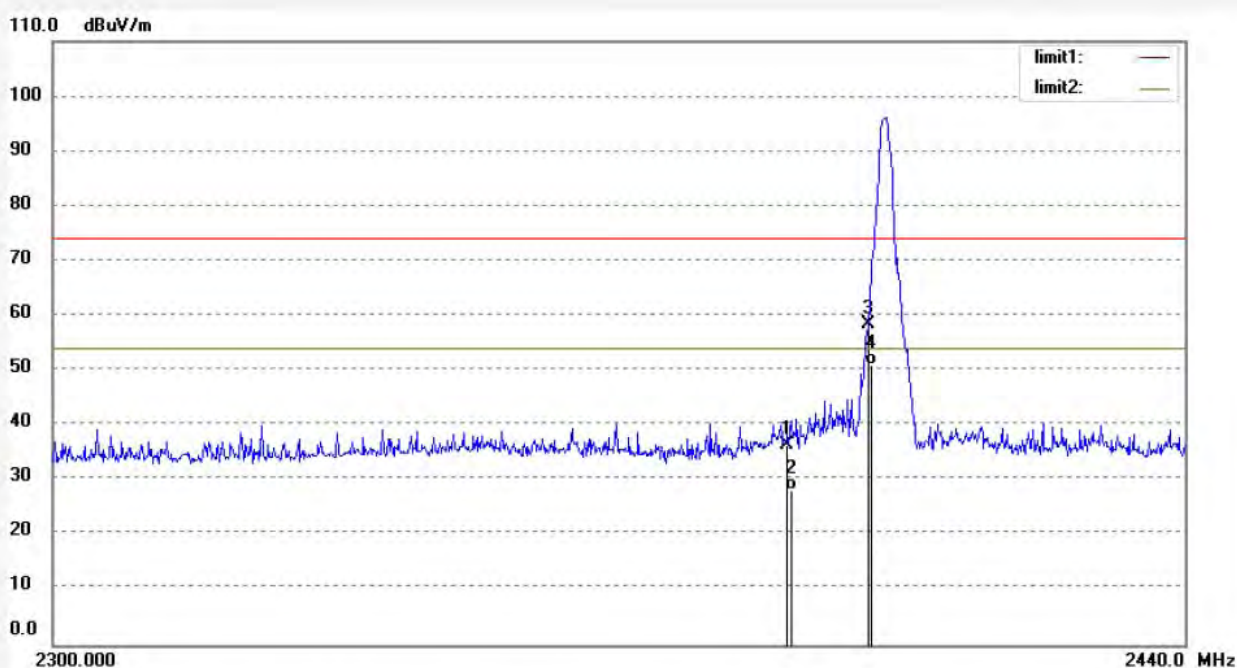
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Time: 14:14:01

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	42.69	-6.32	36.37	74.00	-37.63	peak	150	222	
2	2390.000	34.57	-6.32	28.25	54.00	-25.75	AVG	150	211	
3	2400.000	64.75	-6.27	58.48	74.00	-15.52	peak	150	174	
4	2400.000	57.20	-6.27	50.93	54.00	-3.07	AVG	150	126	

Note: Average measurement with peak detection at No.2&4



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Job No.: STAR2017 #1282

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2480MHz (π/4-DQPSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Horizontal

Power Source: DC 3.7V

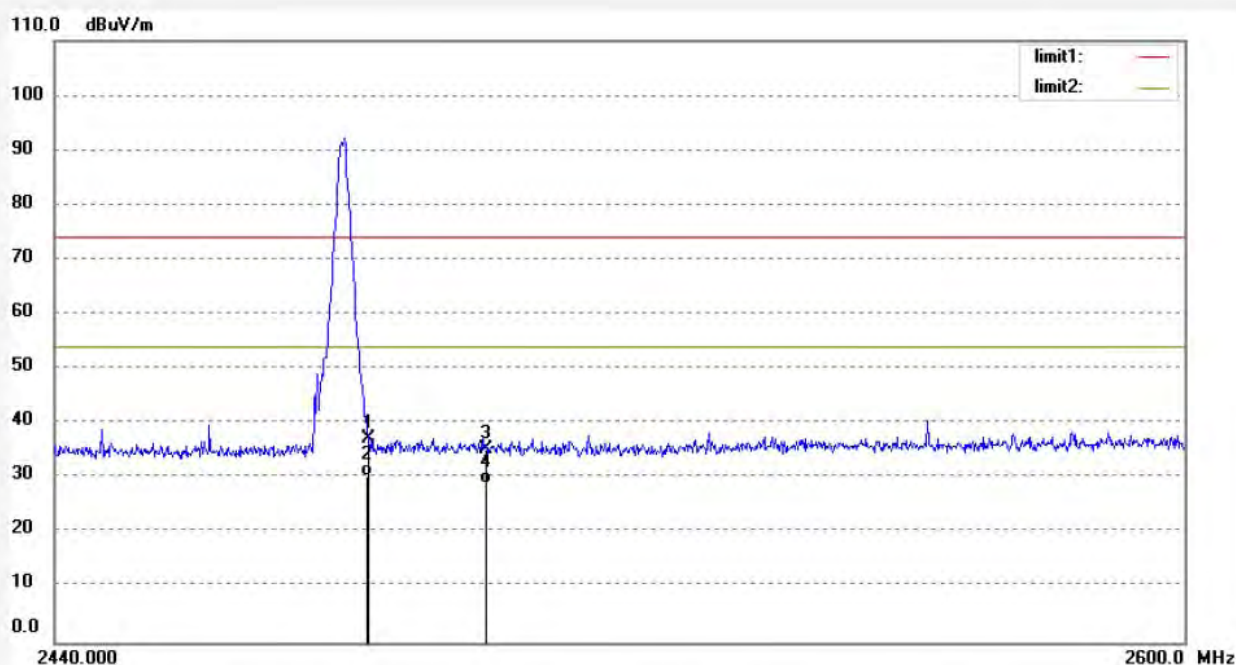
Date: 2017/12/21

Time: 14:10:22

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	43.16	-5.89	37.27	74.00	-36.73	peak	200	46	
2	2483.500	36.41	-5.89	30.52	54.00	-23.48	AVG	200	105	
3	2500.000	41.02	-5.81	35.21	74.00	-38.79	peak	200	269	
4	2500.000	34.72	-5.81	28.91	54.00	-25.09	AVG	200	300	

Note: Average measurement with peak detection at No.2&4



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Job No.: STAR2017 #1283

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2480MHz (π/4-DQPSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Vertical

Power Source: DC 3.7V

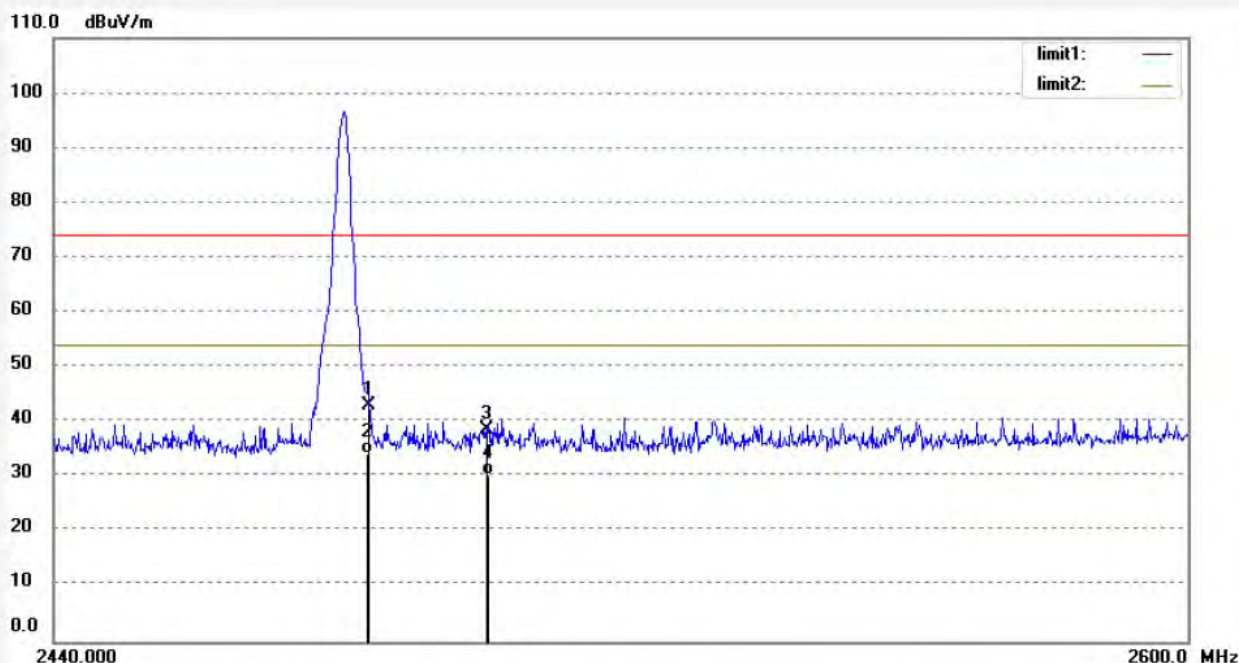
Date: 2017/12/21

Time: 14:11:48

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	48.82	-5.89	42.93	74.00	-31.07	peak	150	78	
2	2483.500	40.00	-5.89	34.11	54.00	-19.89	AVG	150	107	
3	2500.000	44.43	-5.81	38.62	74.00	-35.38	peak	150	225	
4	2500.000	36.22	-5.81	30.41	54.00	-23.59	AVG	150	26	

Note: Average measurement with peak detection at No.2&4



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Job No.: STAR2017 #1286

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2402MHz (8DPSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Horizontal

Power Source: DC 3.7V

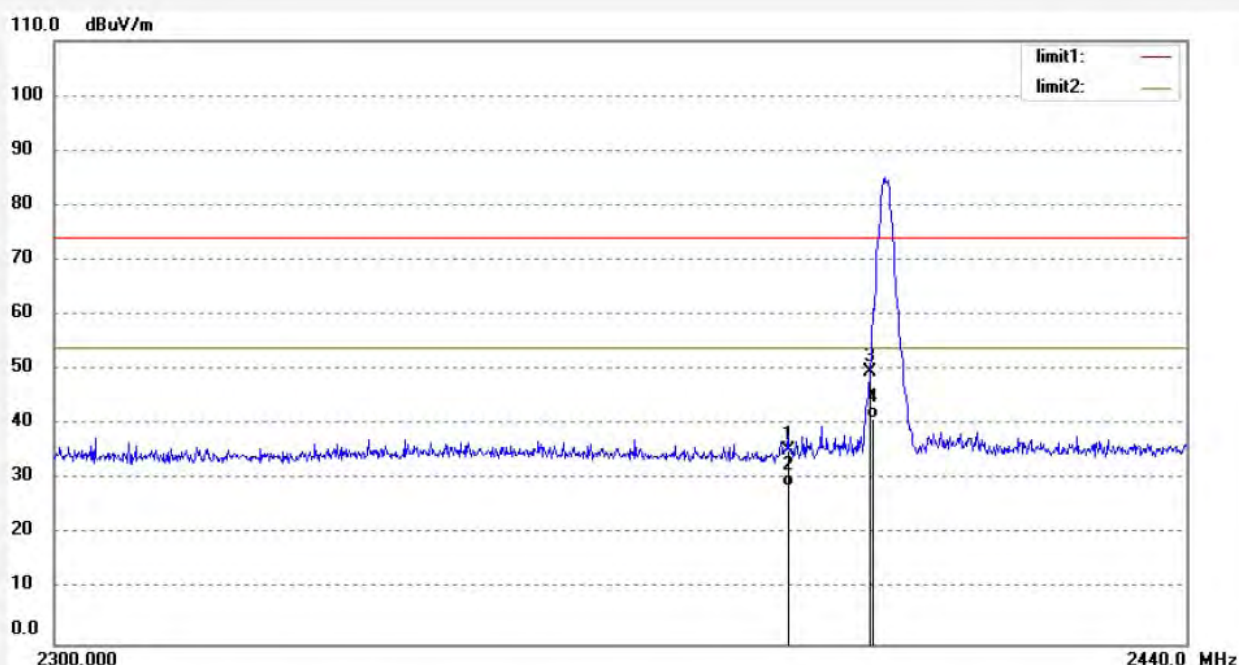
Date: 2017/12/21

Time: 14:18:50

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	41.64	-6.32	35.32	74.00	-38.68	peak	200	114	
2	2390.000	34.94	-6.32	28.62	54.00	-25.38	AVG	200	105	
3	2400.000	55.83	-6.27	49.56	74.00	-24.44	peak	200	269	
4	2400.000	47.25	-6.27	40.98	54.00	-13.02	AVG	200	321	

Note: Average measurement with peak detection at No.2&4



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Job No.: STAR2017 #1287

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2402MHz (8DPSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Vertical

Power Source: DC 3.7V

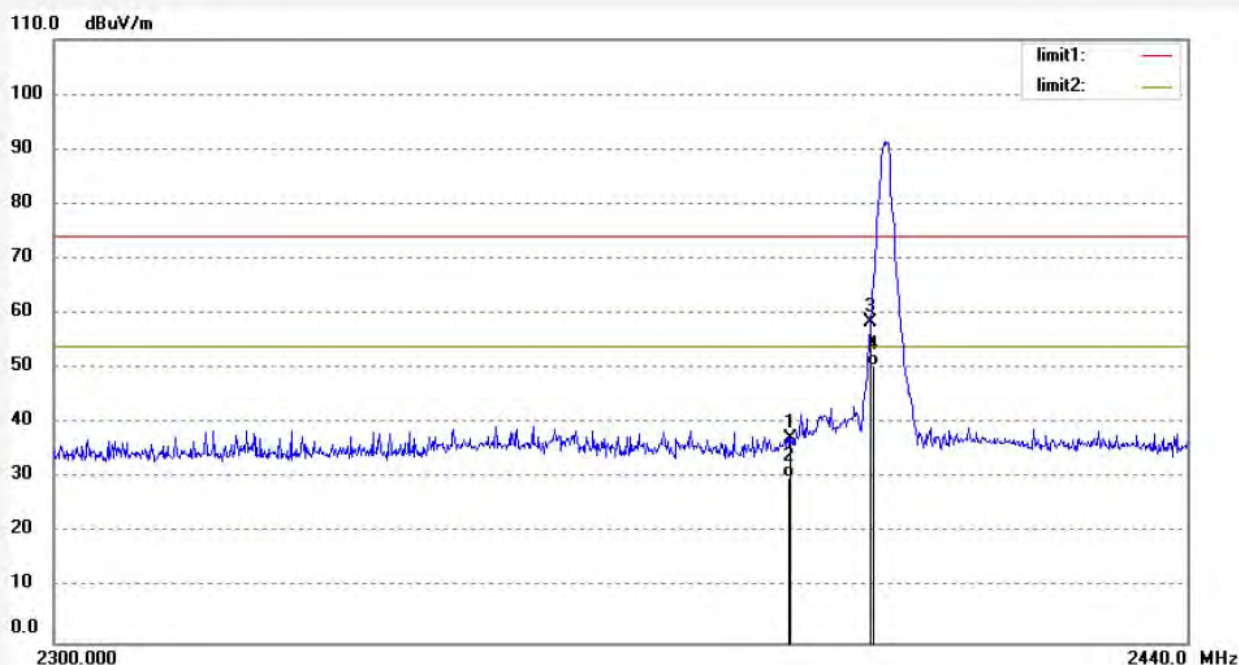
Date: 2017/12/21

Time: 14:20:17

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	43.56	-6.32	37.24	74.00	-36.76	peak	150	92	
2	2390.000	36.39	-6.32	30.07	54.00	-23.93	AVG	150	142	
3	2400.000	64.58	-6.27	58.31	74.00	-15.69	peak	150	158	
4	2400.000	56.87	-6.27	50.60	54.00	-3.40	AVG	150	122	

Note: Average measurement with peak detection at No.2&4



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Job No.: STAR2017 #1289

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2480MHz (8DPSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Horizontal

Power Source: DC 3.7V

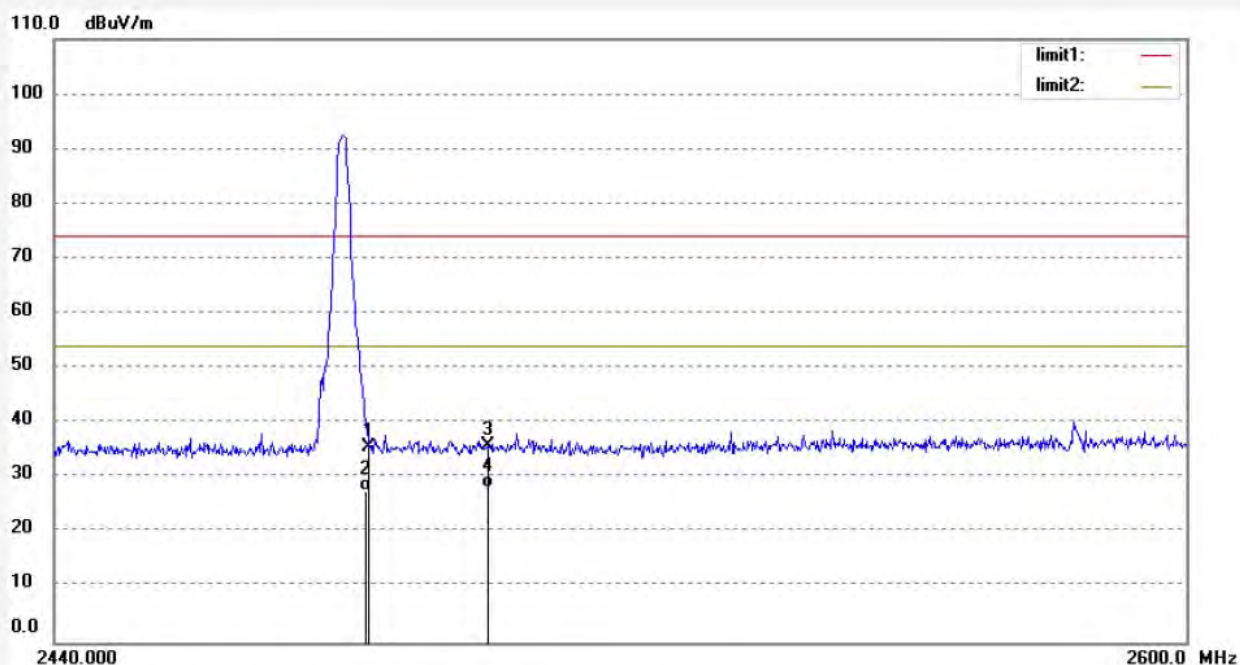
Date: 2017/12/21

Time: 14:25:21

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	41.37	-5.89	35.48	74.00	-38.52	peak	200	258	
2	2483.500	33.59	-5.89	27.70	54.00	-26.30	AVG	200	247	
3	2500.000	41.76	-5.81	35.95	74.00	-38.05	peak	200	269	
4	2500.000	34.00	-5.81	28.19	54.00	-25.81	AVG	200	354	

Note: Average measurement with peak detection at No.2&4



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Job No.: STAR2017 #1288

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: TX 2480MHz (8DPSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Vertical

Power Source: DC 3.7V

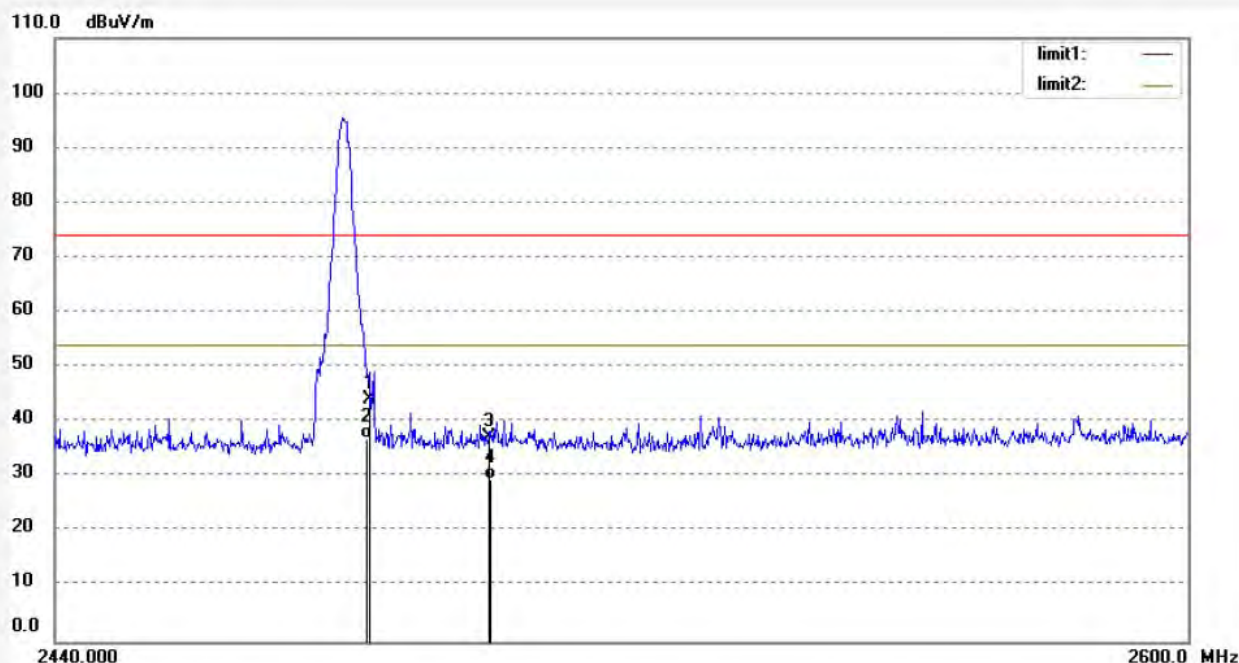
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Time: 14:23:56

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	50.10	-5.89	44.21	74.00	-29.79	peak	150	228	
2	2483.500	42.99	-5.89	37.10	54.00	-16.90	AVG	150	298	
3	2500.000	43.14	-5.81	37.33	74.00	-36.67	peak	150	310	
4	2500.000	35.29	-5.81	29.48	54.00	-24.52	AVG	150	258	

Note: Average measurement with peak detection at No.2&4

Hopping mode



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Job No.: STAR2017 #1295

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: Hopping (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Horizontal

Power Source: DC 3.7V

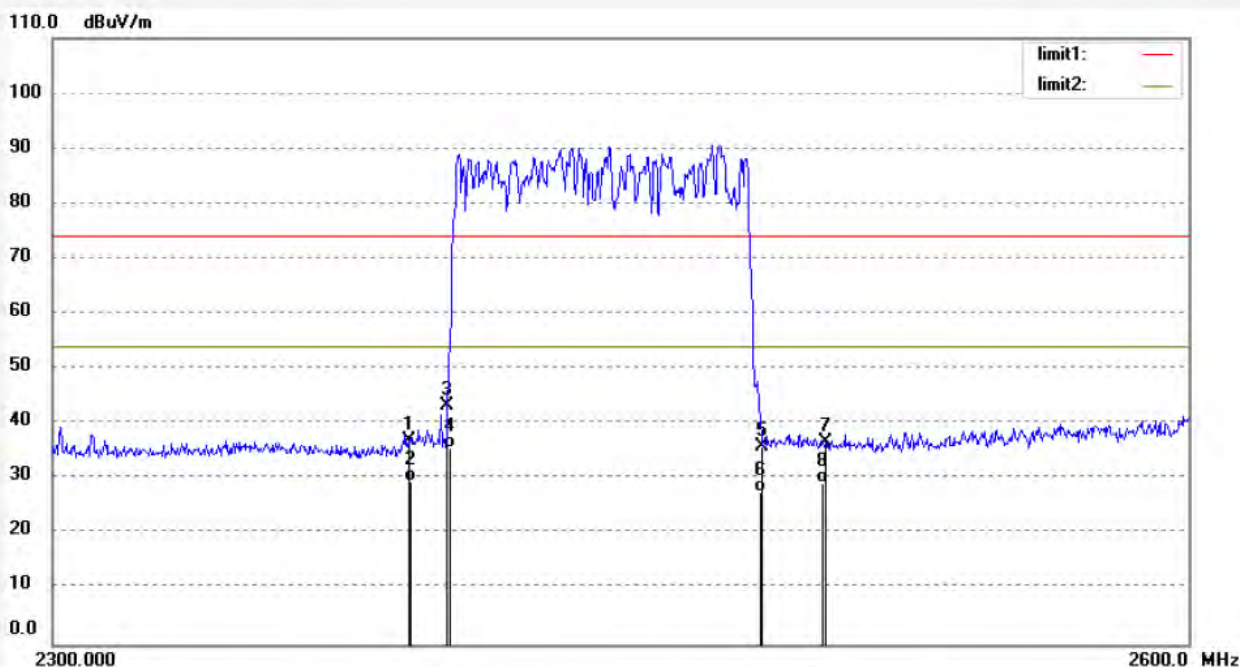
Date: 2017/12/21

Time: 14:55:29

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	43.34	-6.32	37.02	74.00	-36.98	peak	200	178	
2	2390.000	35.99	-6.32	29.67	54.00	-24.33	AVG	200	156	
3	2400.000	49.54	-6.27	43.27	74.00	-30.73	peak	200	177	
4	2400.000	41.90	-6.27	35.63	54.00	-18.37	AVG	200	256	
5	2483.500	41.77	-5.89	35.88	74.00	-38.12	peak	200	147	
6	2483.500	33.57	-5.89	27.68	54.00	-26.32	AVG	200	239	
7	2500.000	42.52	-5.81	36.71	74.00	-37.29	peak	200	105	
8	2500.000	35.02	-5.81	29.21	54.00	-24.79	AVG	200	62	

Note: Average measurement with peak detection at No.2&4&6&8



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Job No.: STAR2017 #1296

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: Hopping (GFSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Vertical

Power Source: DC 3.7V

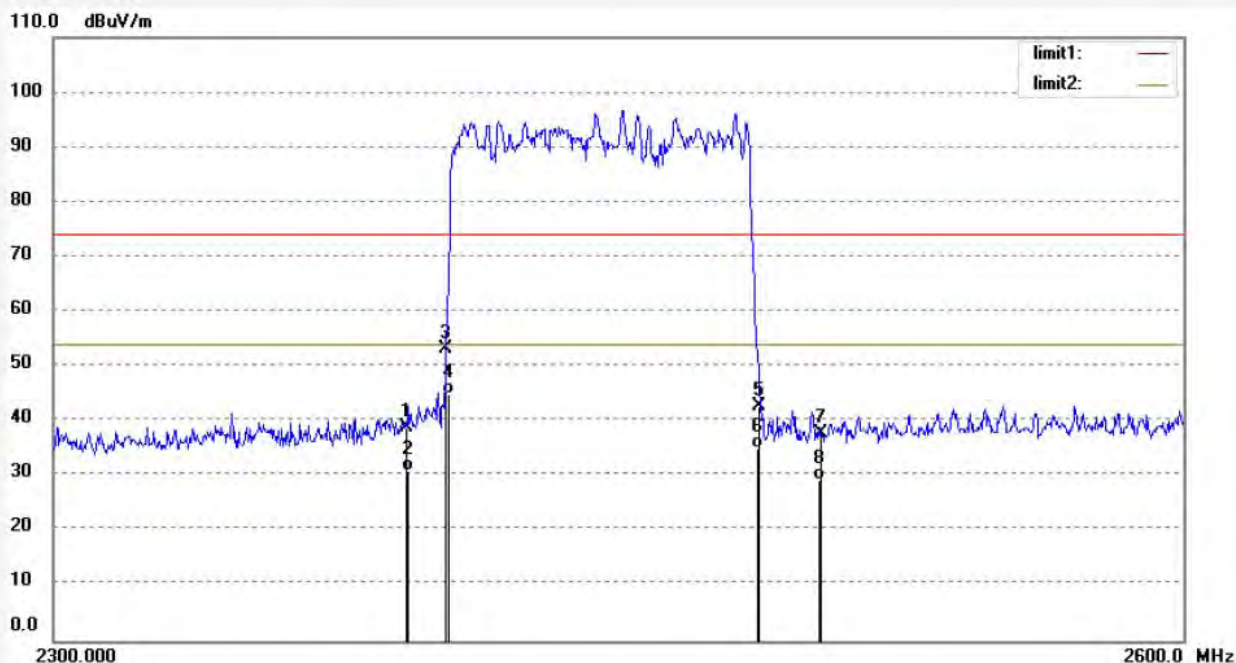
Date: 2017/12/21

Time: 15:01:52

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	45.16	-6.32	38.84	74.00	-35.16	peak	150	135	
2	2390.000	37.25	-6.32	30.93	54.00	-23.07	AVG	150	245	
3	2400.000	59.44	-6.27	53.17	74.00	-20.83	peak	150	126	
4	2400.000	51.25	-6.27	44.98	54.00	-9.02	AVG	150	178	
5	2483.500	48.75	-5.89	42.86	74.00	-31.14	peak	150	268	
6	2483.500	40.92	-5.89	35.03	54.00	-18.97	AVG	150	56	
7	2500.000	43.56	-5.81	37.75	74.00	-36.25	peak	150	197	
8	2500.000	35.22	-5.81	29.41	54.00	-24.59	AVG	150	256	

Note: Average measurement with peak detection at No.2&4&6&8



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Job No.: STAR2017 #1293

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: Hopping (π/4-DQPSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Horizontal

Power Source: DC 3.7V

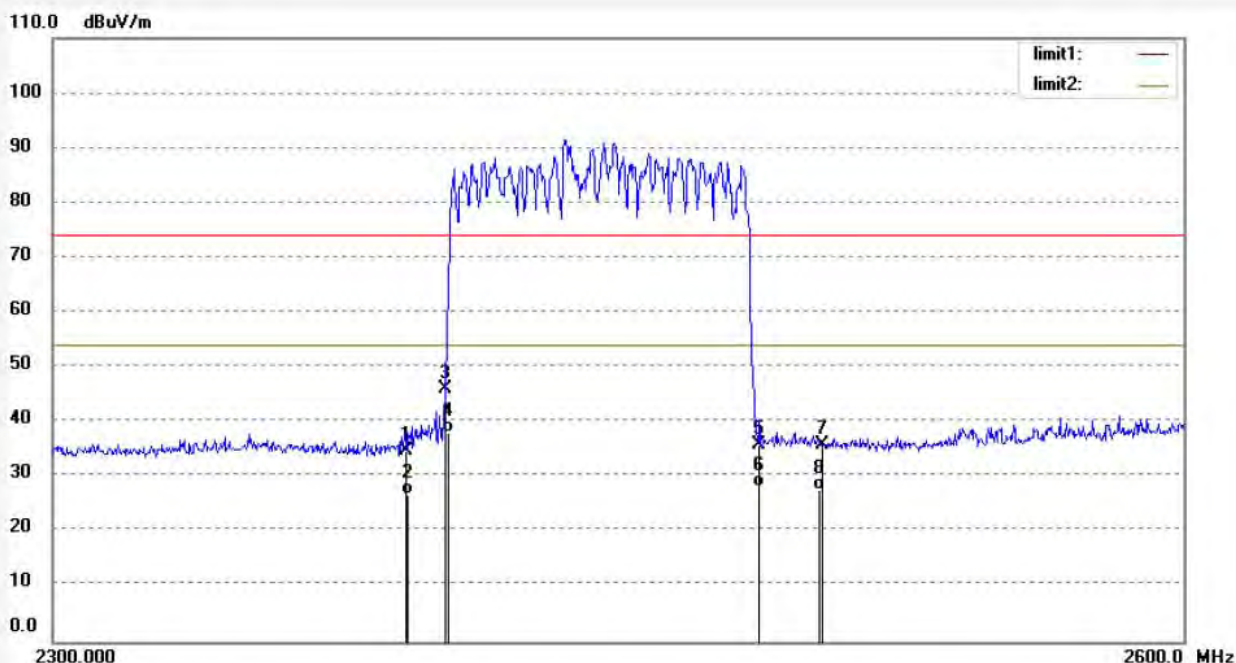
Date: 2017/12/21

Time: 14:50:38

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	41.04	-6.32	34.72	74.00	-39.28	peak	200	64	
2	2390.000	33.25	-6.32	26.93	54.00	-27.07	AVG	200	285	
3	2400.000	52.39	-6.27	46.12	74.00	-27.88	peak	200	310	
4	2400.000	44.25	-6.27	37.98	54.00	-16.02	AVG	200	289	
5	2483.500	41.84	-5.89	35.95	74.00	-38.05	peak	200	236	
6	2483.500	34.21	-5.89	28.32	54.00	-25.68	AVG	200	139	
7	2500.000	41.79	-5.81	35.98	74.00	-38.02	peak	200	125	
8	2500.000	33.39	-5.81	27.58	54.00	-26.42	AVG	200	114	

Note: Average measurement with peak detection at No.2&4&6&8



ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: STAR2017 #1292

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: Hopping (π/4-DQPSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Vertical

Power Source: DC 3.7V

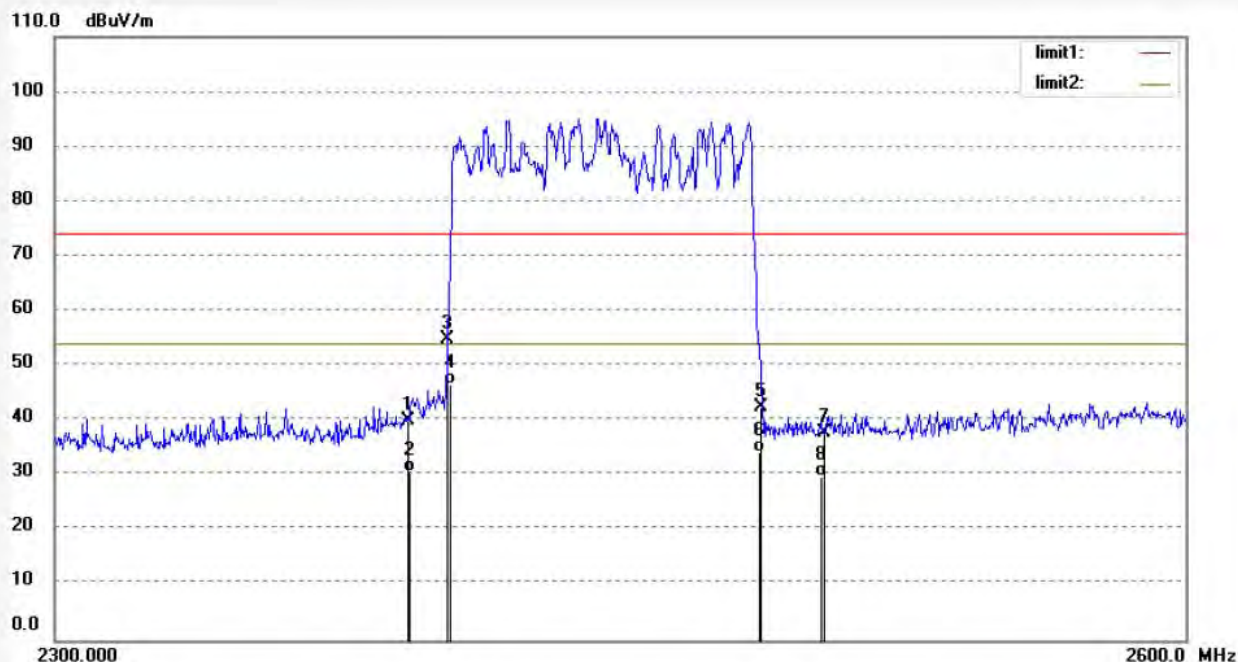
Date: 2017/12/21

Time: 14:46:25

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	46.37	-6.32	40.05	74.00	-33.95	peak	150	155	
2	2390.000	36.90	-6.32	30.58	54.00	-23.42	AVG	150	147	
3	2400.000	61.07	-6.27	54.80	74.00	-19.20	peak	150	125	
4	2400.000	52.97	-6.27	46.70	54.00	-7.30	AVG	150	146	
5	2483.500	48.44	-5.89	42.55	74.00	-31.45	peak	150	248	
6	2483.500	40.00	-5.89	34.11	54.00	-19.89	AVG	150	235	
7	2500.000	43.54	-5.81	37.73	74.00	-36.27	peak	150	147	
8	2500.000	35.69	-5.81	29.88	54.00	-24.12	AVG	150	222	

Note: Average measurement with peak detection at No.2&4&6&8



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

Job No.: STAR2017 #1290

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: Hopping (8DPSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Horizontal

Power Source: DC 3.7V

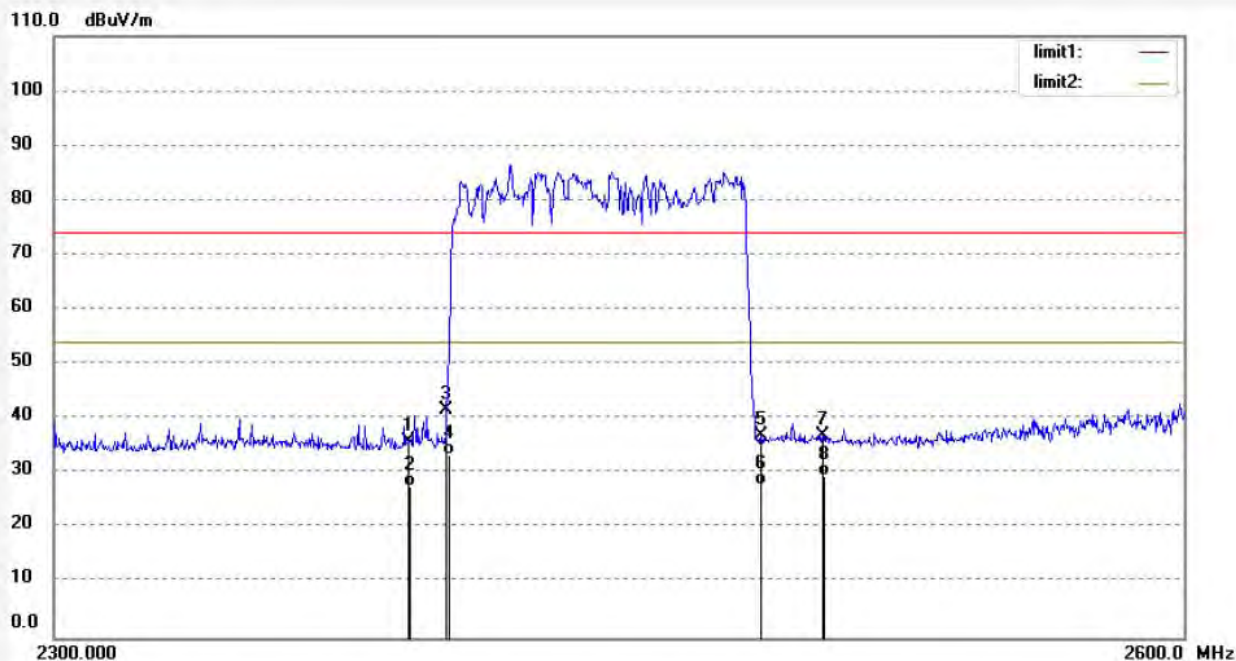
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Time: 14:32:11

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	42.17	-6.32	35.85	74.00	-38.15	peak	200	211	
2	2390.000	34.05	-6.32	27.73	54.00	-26.27	AVG	200	25	
3	2400.000	48.00	-6.27	41.73	74.00	-32.27	peak	200	92	
4	2400.000	39.57	-6.27	33.30	54.00	-20.70	AVG	200	45	
5	2483.500	42.96	-5.89	37.07	74.00	-36.93	peak	200	106	
6	2483.500	33.69	-5.89	27.80	54.00	-26.20	AVG	200	235	
7	2500.000	42.70	-5.81	36.89	74.00	-37.11	peak	200	147	
8	2500.000	35.41	-5.81	29.60	54.00	-24.40	AVG	200	254	

Note: Average measurement with peak detection at No.2&4&6&8



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2017 #1291

Standard: FCC PK

Test item: Radiation Test

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

EUT: Active Noise Cancelling Wireless BT Headphone

Mode: Hopping (8DPSK)

Model: N5

Manufacturer: Lezun Limited

Polarization: Vertical

Power Source: DC 3.7V

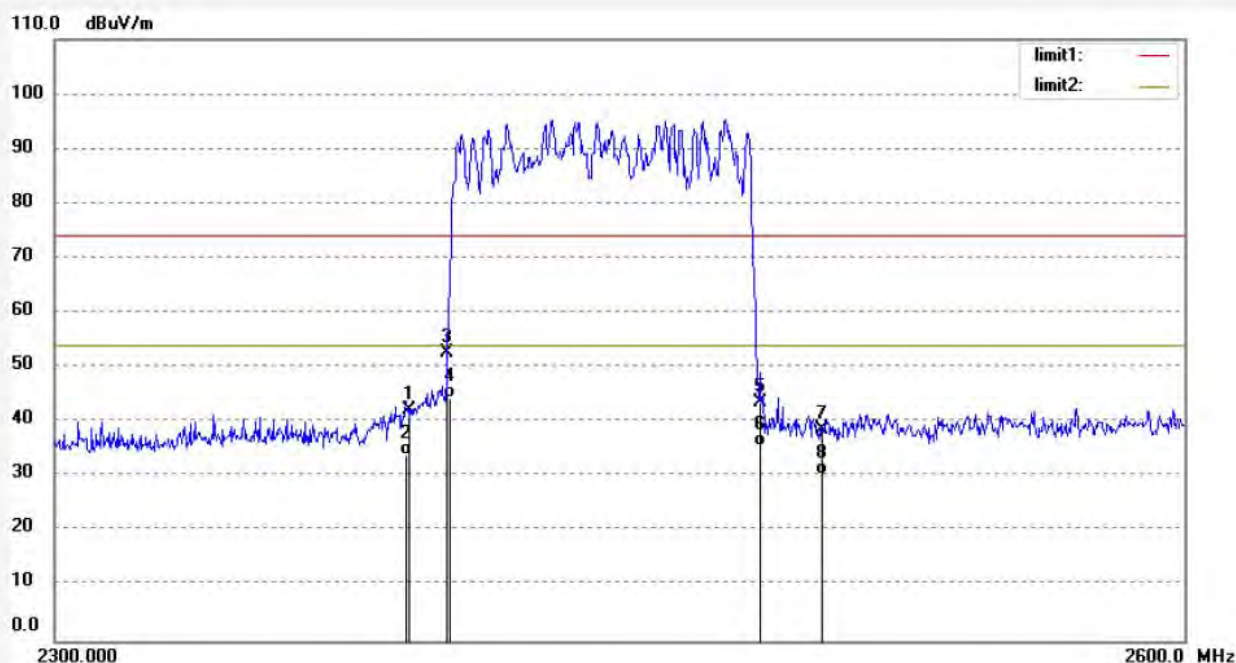
Date: 2017/12/21

Time: 14:38:46

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20172531



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	48.54	-6.32	42.22	74.00	-31.78	peak	150	144	
2	2390.000	40.25	-6.32	33.93	54.00	-20.07	AVG	150	132	
3	2400.000	58.91	-6.27	52.64	74.00	-21.36	peak	150	245	
4	2400.000	50.69	-6.27	44.42	54.00	-9.58	AVG	150	203	
5	2483.500	49.50	-5.89	43.61	74.00	-30.39	peak	150	233	
6	2483.500	41.58	-5.89	35.69	54.00	-18.31	AVG	150	254	
7	2500.000	44.50	-5.81	38.69	74.00	-35.31	peak	150	75	
8	2500.000	36.29	-5.81	30.48	54.00	-23.52	AVG	150	86	

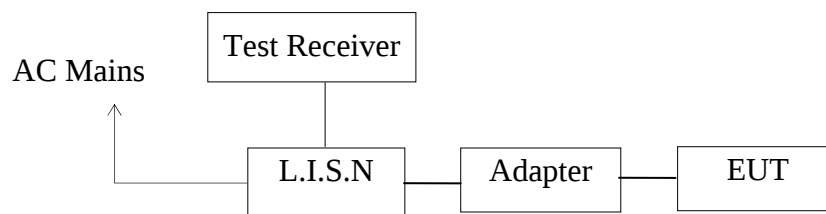
Note: Average measurement with peak detection at No.2&4&6&8

12.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

15 SECTION 15.207(A)

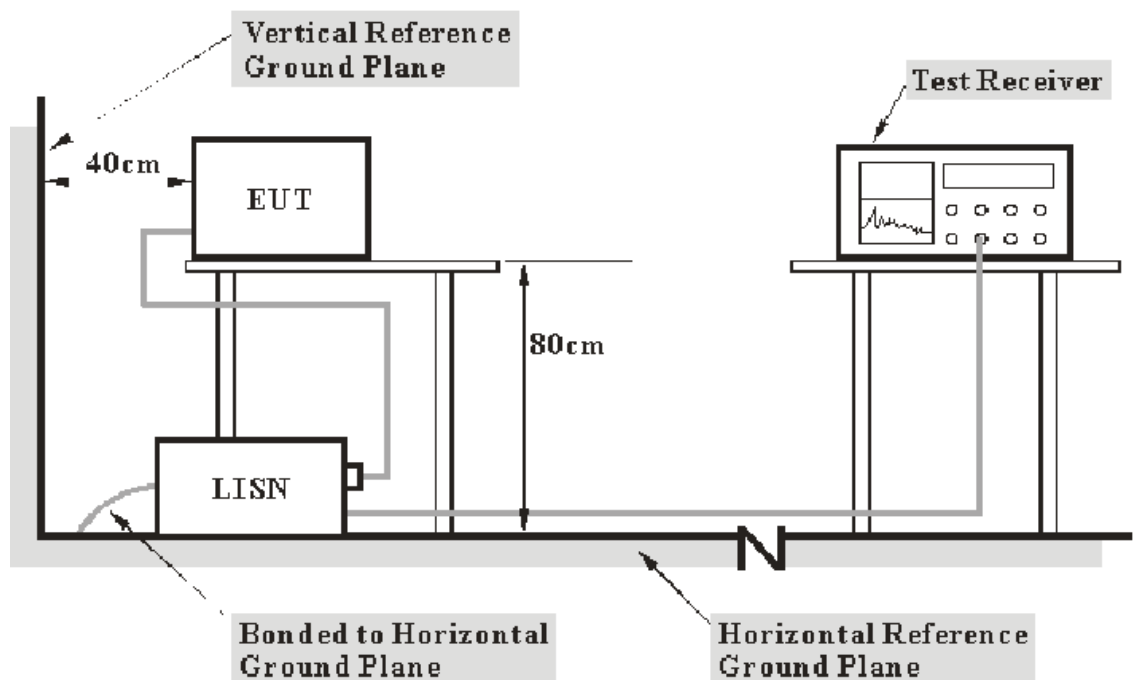
12.1.Block Diagram of Test Setup

12.1.1.Block diagram of connection between the EUT and simulators



(EUT: Active Noise Cancelling Wireless BT Headphone)

12.1.2.Test System Setup



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

12.2.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.		

12.3.Configuration of EUT on Measurement

The 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.

12.4.Operating Condition of EUT

12.4.1.Setup the EUT and simulator as shown as Section 12.1.

12.4.2.Turn on the power of all equipment.

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

12.5.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: 2013 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.

12.6.Data Sample

Frequency (MHz)	Transducer value (dB)	QuasiPeak Level (dBμV)	Average Level (dBμV)	QuasiPeak Limit (dBμV)	Average Limit (dBμV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XX	10.6	25.3	17.0	59.0	49.0	33.4	31.7	Pass

Frequency(MHz) = Emission frequency in MHz

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

Level(dBμV) = Quasi-peak Reading/Average Reading + Transducer value

Limit (dBμV) = Limit stated in standard

Margin = Limit (dBμV) - Level (dBμV)

Calculation Formula:

Margin = Limit (dBμV) - Level (dBμV)

12.7.Power Line Conducted Emission Measurement Results

PASS.

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

Maximizing procedure was performed on the six (6) highest emissions of the EUT.
Emissions attenuated more than 20 dB below the permissible value are not reported.

All data was recorded in the Quasi-peak and average detection mode.

The spectral diagrams are attached as below.

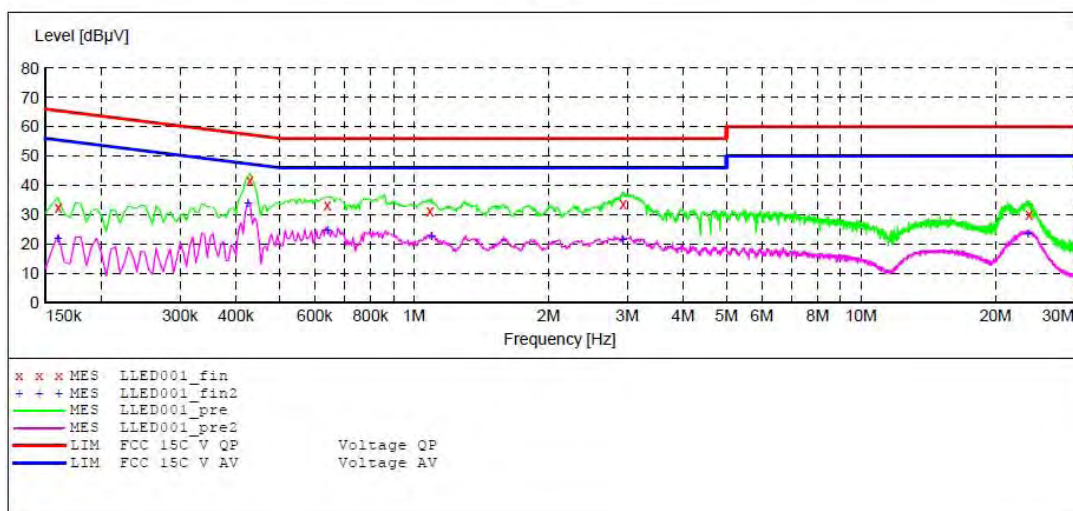
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 C

EUT: Active Noise Cancelling Wireless BT Headphone M/N:N5
 Manufacturer: Lezun Limited
 Operating Condition: BT communication
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20172531
 Start of Test: 12/21/2017 / 3:14:29PM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "LLED001_fin"

12/21/2017 3:18PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.160000	32.30	10.5	66	33.2	QP	L1	GND
0.430000	41.50	10.7	57	15.8	QP	L1	GND
0.640000	33.00	10.8	56	23.0	QP	L1	GND
1.085000	31.20	10.9	56	24.8	QP	L1	GND
2.940000	33.50	11.1	56	22.5	QP	L1	GND
23.755000	30.00	11.5	60	30.0	QP	L1	GND

MEASUREMENT RESULT: "LLED001_fin2"

12/21/2017 3:18PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.160000	21.90	10.5	56	33.6	AV	L1	GND
0.425000	33.80	10.7	47	13.5	AV	L1	GND
0.640000	24.90	10.8	46	21.1	AV	L1	GND
1.095000	22.70	10.9	46	23.3	AV	L1	GND
2.930000	21.40	11.1	46	24.6	AV	L1	GND
23.635000	23.50	11.5	50	26.5	AV	L1	GND

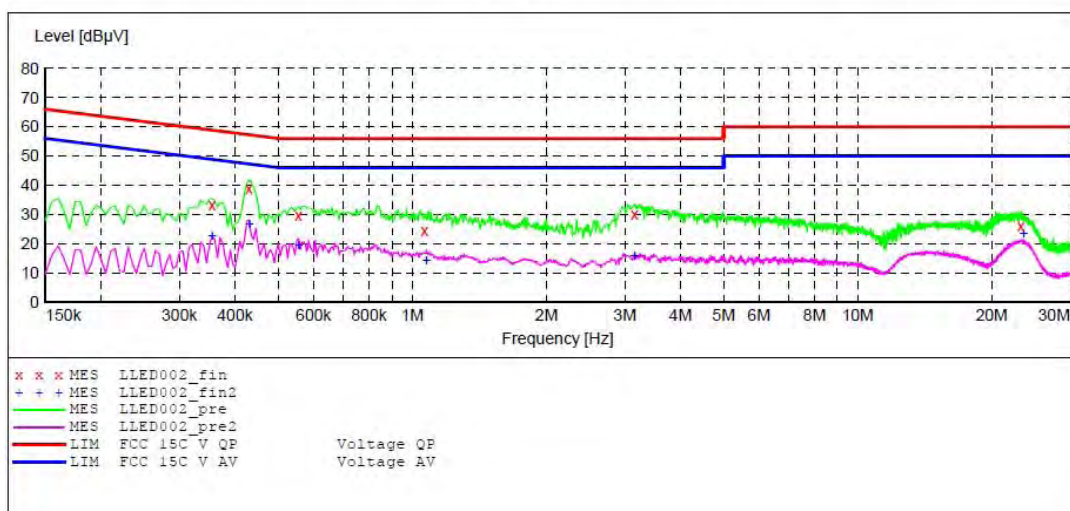
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 C

EUT: Active Noise Cancelling Wireless BT Headphone M/N:N5
 Manufacturer: Lezun Limited
 Operating Condition: BT communication
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20172531
 Start of Test: 12/21/2017 / 3:18:47PM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "LLED002_fin"

12/21/2017 3:23PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.355000	33.20	10.6	59	25.6	QP	N	GND
0.430000	38.70	10.7	57	18.6	QP	N	GND
0.555000	29.70	10.7	56	26.3	QP	N	GND
1.065000	24.40	10.9	56	31.6	QP	N	GND
3.150000	29.80	11.1	56	26.2	QP	N	GND
23.260000	25.80	11.5	60	34.2	QP	N	GND

MEASUREMENT RESULT: "LLED002_fin2"

12/21/2017 3:23PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.355000	22.60	10.6	49	26.2	AV	N	GND
0.430000	26.90	10.7	47	20.4	AV	N	GND
0.555000	19.60	10.7	46	26.4	AV	N	GND
1.075000	14.40	10.9	46	31.6	AV	N	GND
3.150000	16.10	11.1	46	29.9	AV	N	GND
23.560000	23.70	11.5	50	26.3	AV	N	GND

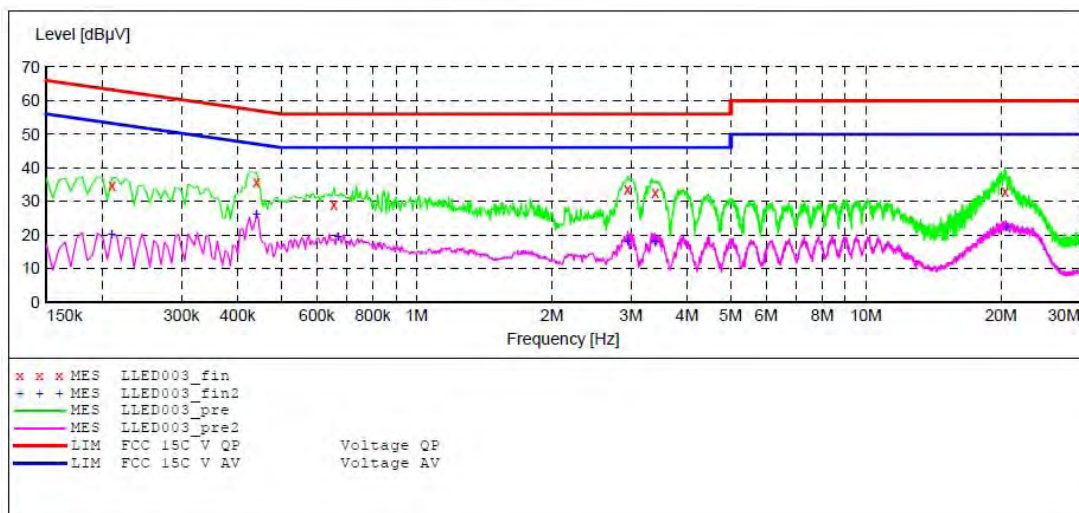
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 C

EUT: Active Noise Cancelling Wireless BT Headphone M/N:N5
 Manufacturer: Lezun Limited
 Operating Condition: BT communication
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: N 240V/60Hz
 Comment: Report No.:ATE20172531
 Start of Test: 12/21/2017 / 3:24:17PM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "LLED003_fin"

12/21/2017 3:27PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.210000	34.60	10.5	63	28.6	QP	N	GND
0.440000	35.60	10.7	57	21.5	QP	N	GND
0.655000	29.10	10.8	56	26.9	QP	N	GND
2.950000	33.70	11.1	56	22.3	QP	N	GND
3.400000	32.60	11.1	56	23.4	QP	N	GND
20.410000	33.10	11.4	60	26.9	QP	N	GND

MEASUREMENT RESULT: "LLED003_fin2"

12/21/2017 3:27PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.210000	20.20	10.5	53	33.0	AV	N	GND
0.440000	26.20	10.7	47	20.9	AV	N	GND
0.670000	19.50	10.8	46	26.5	AV	N	GND
2.950000	18.10	11.1	46	27.9	AV	N	GND
3.390000	18.30	11.1	46	27.7	AV	N	GND
20.530000	22.50	11.4	50	27.5	AV	N	GND

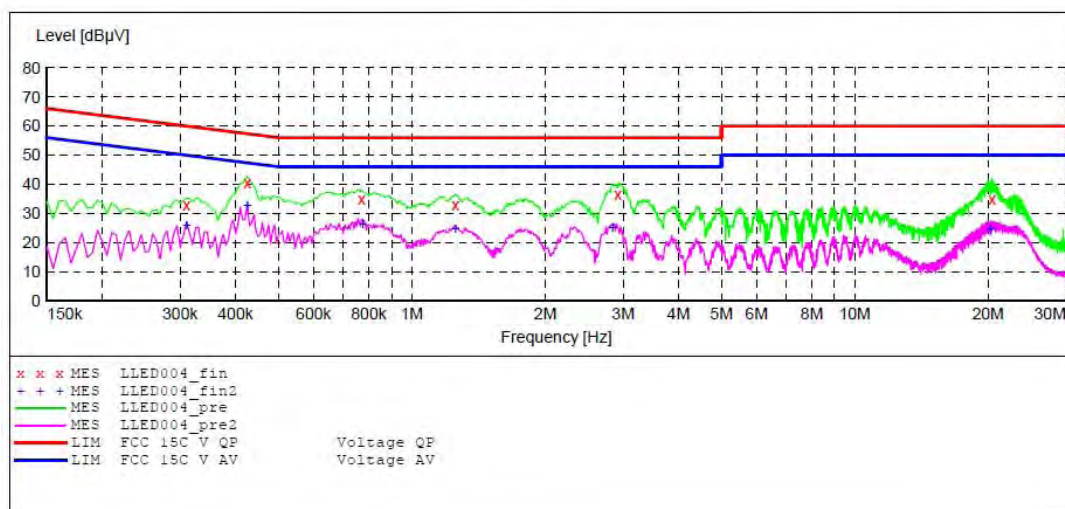
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 C

EUT: Active Noise Cancelling Wireless BT Headphone M/N:N5
 Manufacturer: Lezun Limited
 Operating Condition: BT communication
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: L 240V/60Hz
 Comment: Report No.:ATE20172531
 Start of Test: 12/21/2017 / 3:28:20PM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "LLED004_fin"

12/21/2017 3:32PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.310000	32.90	10.6	60	27.1	QP	L1	GND
0.425000	40.40	10.7	57	16.9	QP	L1	GND
0.770000	34.90	10.8	56	21.1	QP	L1	GND
1.255000	33.00	10.9	56	23.0	QP	L1	GND
2.920000	36.60	11.1	56	19.4	QP	L1	GND
20.410000	34.90	11.4	60	25.1	QP	L1	GND

MEASUREMENT RESULT: "LLED004_fin2"

12/21/2017 3:32PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.310000	26.10	10.6	50	23.9	AV	L1	GND
0.425000	32.80	10.7	47	14.5	AV	L1	GND
0.775000	26.20	10.8	46	19.8	AV	L1	GND
1.255000	24.70	10.9	46	21.3	AV	L1	GND
2.840000	25.00	11.0	46	21.0	AV	L1	GND
20.260000	24.60	11.4	50	25.4	AV	L1	GND

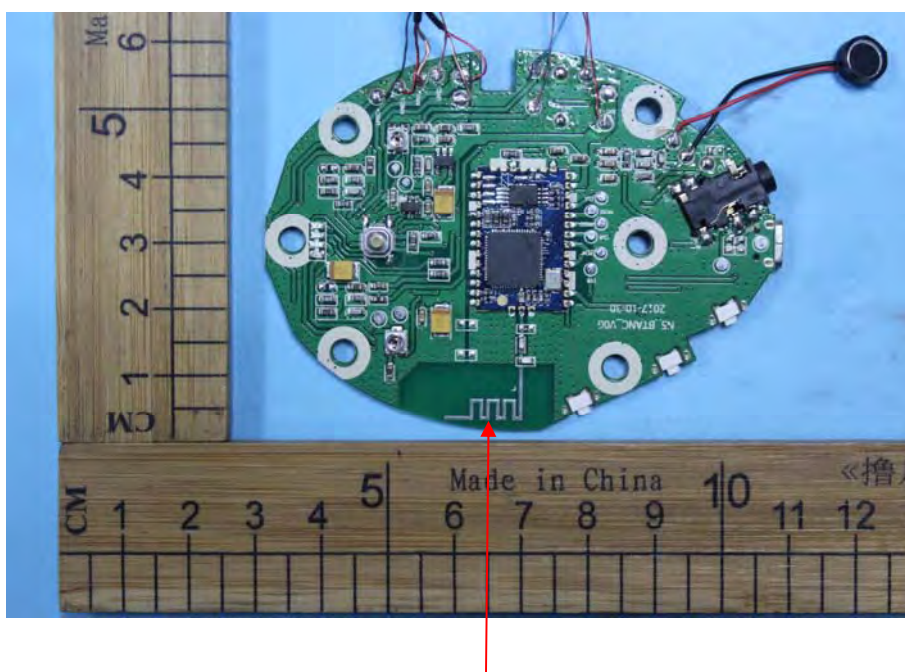
13.ANTENNA REQUIREMENT

13.1.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.

13.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Max Antenna gain of EUT is 2.5dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna

***** End of Test Report *****