APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
Koss Corporation

Bluetooth Headset
Model No.: BT539i V2

FCC ID: L76-BT539IV2

Prepared for	:	Koss Corporation
Address	:	4129 North Port Washington Avenue Milwaukee Wisconsin 53212 United States
Prepared by	:	Shenzhen Accurate Technology Co., Ltd.
Address	:	1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China Tel: (0755) 26503290 Fax: (0755) 26503396

Report No.	:	ATE20181147
Date of Test	:	July 3-July 4, 2018
Date of Report	:	July 5, 2018

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Description Page

Test Report Certification

Applicant	:	Koss Corporation
Manufacturer	:	Dongguan Baizhenrong Limited
EUT Description	:	Bluetooth Headset
Model No.	:	BT539i V2
Brand Name	:	KOSS

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247
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 : July 3-July 4, 2018
Date of Report : July 5, 2018

Test Engineer : Star Yang
(Star Yang, Engineer)

Prepared by : Star Yang
(Star Yang, Engineer)

Approved & Authorized Signer :
(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

Model Number	:	BT539i V2
Bluetooth version	:	V 4.2
Frequency Range	:	2402MHz-2480MHz
Number of Channels	:	79
Antenna Gain(Max)	:	0 dBi
Antenna type	:	Integral Antenna
Modulation mode	:	GFSK, π/4 DQPSK, 8DPSK
Power supply	:	DC 3.7V (Powered by Lithium battery) or DC 5V (Powered by USB port)
Hardware version	:	KOSS BT539i
Software version	:	AB1522S V4.2
Applicant	:	Koss Corporation
Address	:	4129 North Port Washington Avenue Milwaukee Wisconsin 53212 United States
Manufacturer	:	Dongguan Baizhenrong Limited
Address	:	3 Xin Yuan Street, Ju-zhou No.2 Industrial Zone, Shijie Town, DongGuan, GuangDong Province, P.R.C

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 (ISEDC) 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. 06, 2018	1 Year
EMI Test Receiver	Rohde& Schwarz	ESR	101817	Jan. 06, 2018	1 Year
Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	Jan. 06, 2018	1 Year
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan. 06, 2018	1 Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 06, 2018	1 Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 06, 2018	1 Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 06, 2018	1 Year
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 06, 2018	1 Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 06, 2018	1 Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18G-10SS	N/A	Jan. 06, 2018	1 Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2485-2375/2510-60/11SS	N/A	Jan. 06, 2018	1 Year
RF COAXIAL CABLE	SUHNER	N-5m(Frequency range:9KHz-26.5GHz)	NO.3	Jan. 06, 2018	1 Year
RF COAXIAL CABLE	SUHNER	N-5m(Frequency range:9KHz-26.5GHz)	NO.4	Jan. 06, 2018	1 Year
RF COAXIAL CABLE	SUHNER	N-1m(Frequency range:9KHz-26.5GHz)	NO.5	Jan. 06, 2018	1 Year
RF COAXIAL CABLE	SUHNER	N-1m(Frequency range:9KHz-26.5GHz)	NO.6	Jan. 06, 2018	1 Year
Temporary antenna connector	NTGS	14AE	N/A	July 4, 2018	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.

EUT is connected to a computer through the usb-serial controller tool and Use test software to set the test mode.
Test software is (Airoha.AB152x_verC_LabTestTool)

3.2.Configuration and peripherals

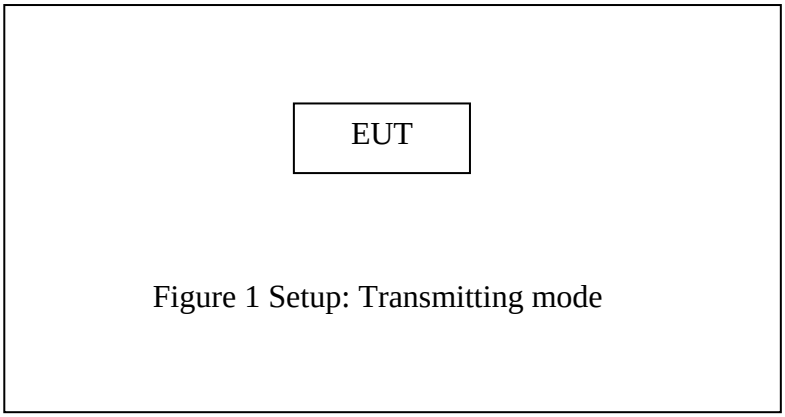


Figure 1 Setup: Transmitting mode

4. FREQUENCY HOPPING SYSTEM REQUIREMENTS

4.1.Standard and Limit

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly 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.

(g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

(h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

4.2.EUT Pseudorandom Frequency Hopping Sequence

Pseudorandom Frequency Hopping Sequence Table as below:
Channel: 08, 24, 40, 56, 34, 51, 72, 09, 01, 64, 22, 33, 41, 32, 47, 65, 73, 53, 69, 06, 17, 04, 20, 36, 52, 38, 66, 70, 78, 68, 76, 21, 29, 10, 26, 49, 00, 58, 44, 59, 75, 13, 03, 14, 11, 35, 43, 37, 50, 61, 77, 55, 71, 02, 23, 07, 27, 39, 54, 46, 48, 15, 63, 62, 67, 25, 31, 12, 28, 19, 60, 42, 57, 74, 16, 05, 18, 30, 45, etc.

The system receiving have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

4.3.Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule.

This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

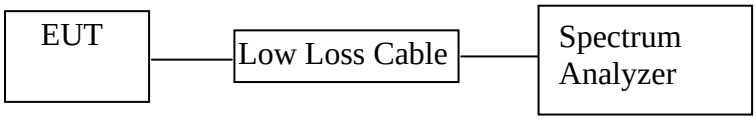
This device was tested with a bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements FCC Part 15.247 rule.

5. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
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 15.207	AC power-line conducted emissions limits Test	Compliant
Section 15.203	Antenna Requirement	Compliant

6. 20DB BANDWIDTH TEST

6.1.Block Diagram of Test Setup



(EUT: Bluetooth Headset)

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.

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 off) 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 100 kHz and VBW to 300 kHz.

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

6.6.Test Result

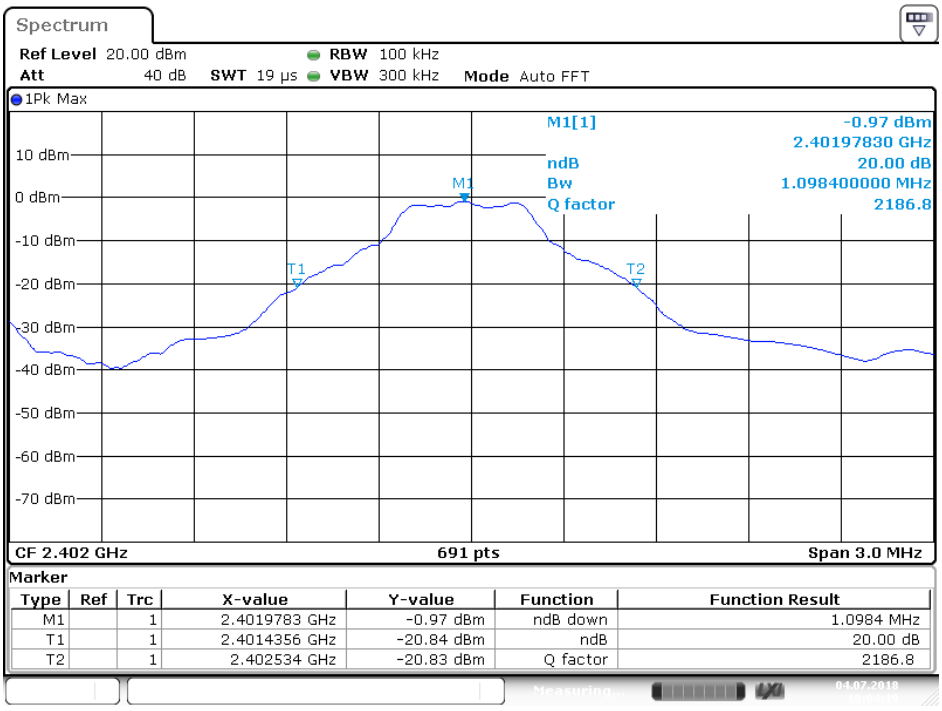
Test Lab: Shielding room
Test Engineer: Star

Channel	Frequency (MHz)	GFSK 20dB Bandwidth (MHz)	Π/4-DQPSK 20dB Bandwidth (MHz)	8DPSK 20dB Bandwidth (MHz)	Result
Low	2402	1.098	1.411	1.376	Pass
Middle	2441	1.103	1.407	1.372	Pass
High	2480	1.133	1.424	1.389	Pass

The spectrum analyzer plots are attached as below.

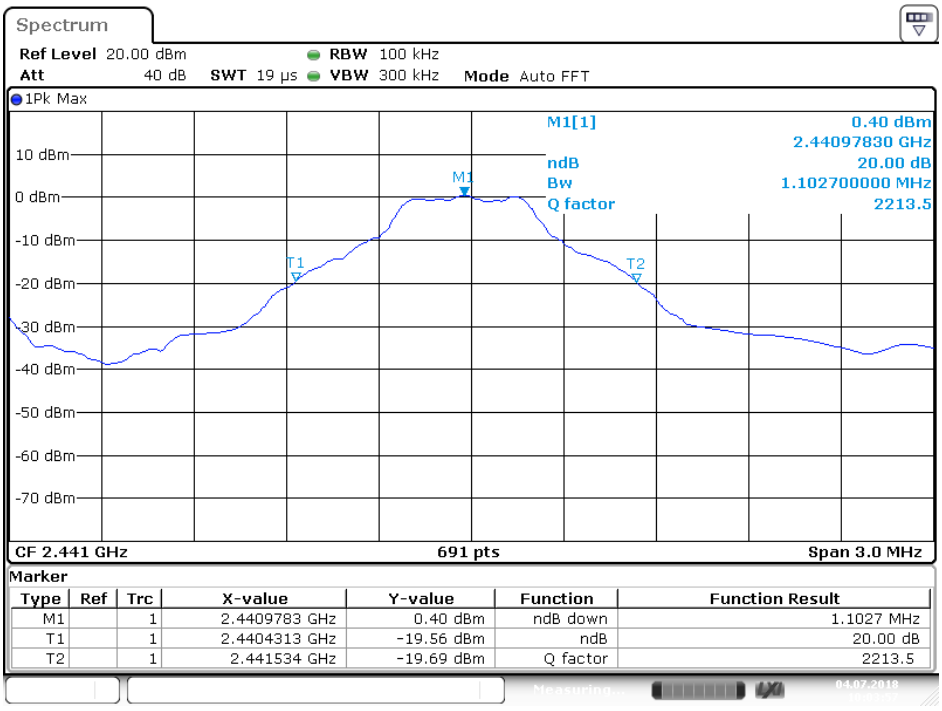
GFSK Mode

Low channel



Date: 4.JUL.2018 10:04:19

Middle channel



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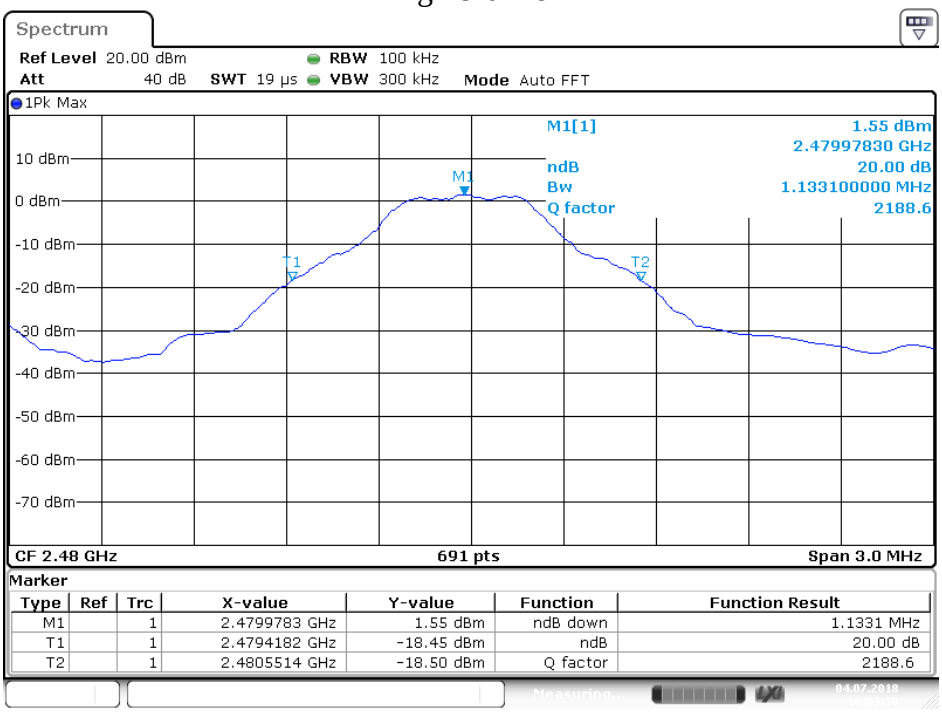
High channel



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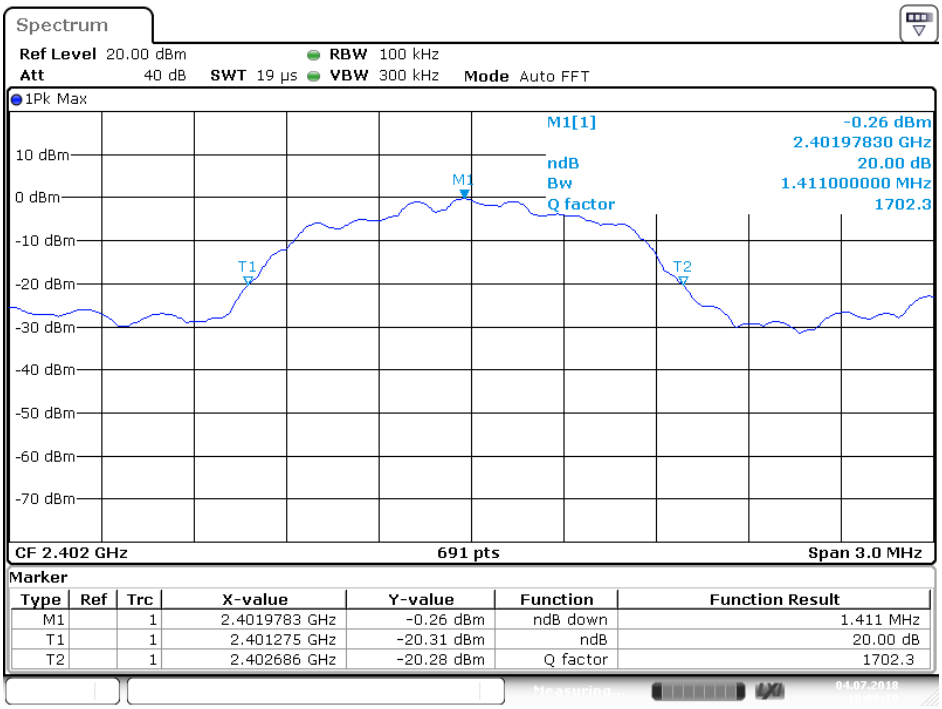
Π/4-DQPSK Mode

Low channel



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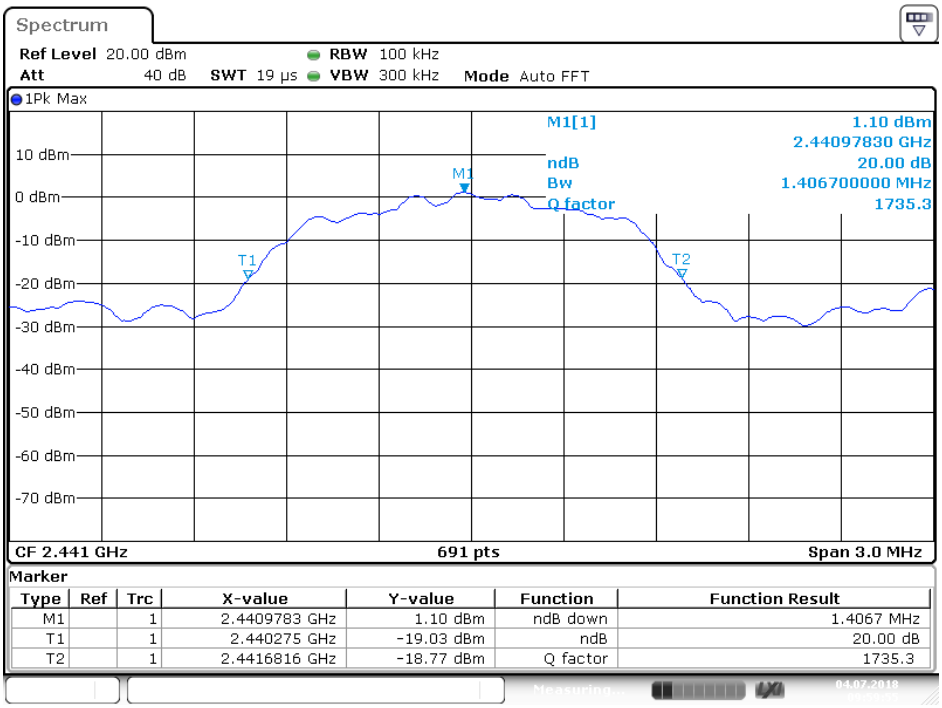
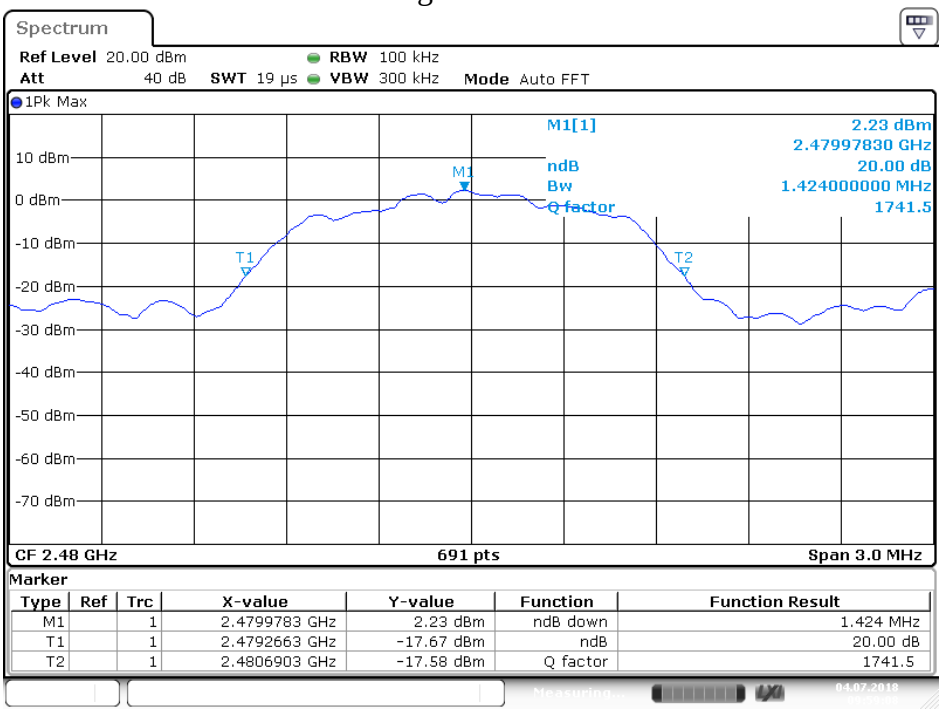
Middle channel



Date: 4.JUL.2018 09:59:55

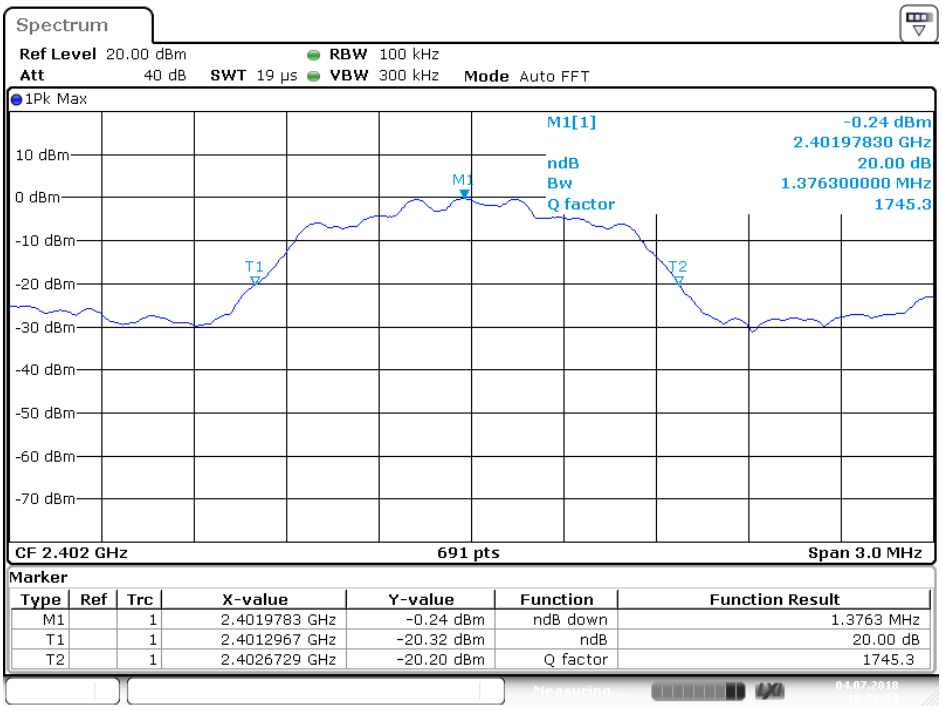
High channel



Date: 4.JUL.2018 09:59:08

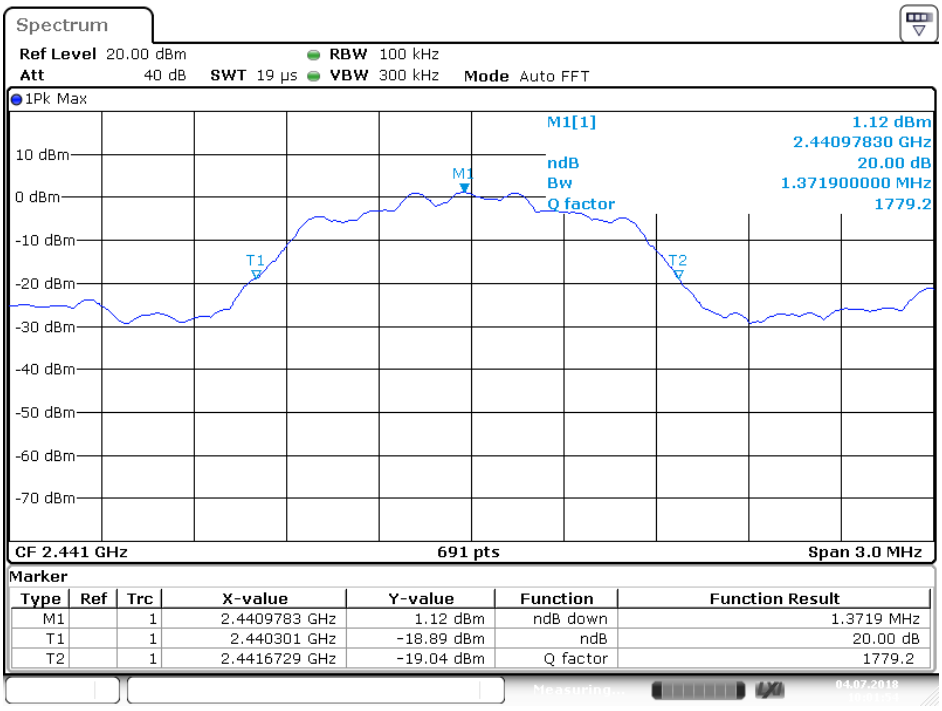
8DPSK Mode

Low channel



Date: 4.JUL.2018 10:01:19

Middle channel



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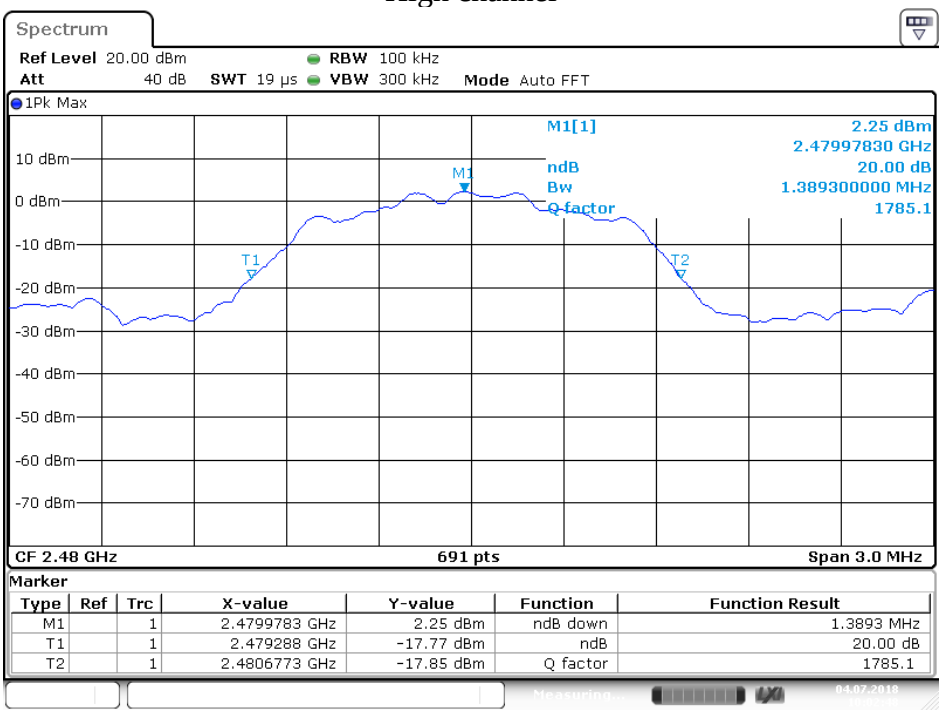
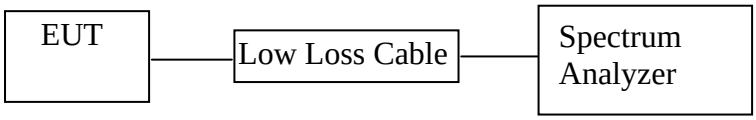
High channel



Date: 4.JUL.2018 10:02:48

7. CARRIER FREQUENCY SEPARATION TEST

7.1.Block Diagram of Test Setup



(EUT: Bluetooth Headset)

7.2.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 pseudo randomly 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.

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. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

7.5.Test Procedure

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

7.5.2.Set RBW of spectrum analyzer to 30 kHz and VBW to 100 kHz. Adjust Span to 2MHz.

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

7.5.4.Measurement the channel separation

7.6.Test Result

Test Lab: Shielding room
Test Engineer: Star

GFSK Mode

Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.0029	25KHz or 2/3*20dB bandwidth	Pass
	2403			
Middle	2440	0.9986	25KHz or 2/3*20dB bandwidth	Pass
	2441			
High	2479	1.0029	25KHz or 2/3*20dB bandwidth	Pass
	2480			

Π/4-DQPSK Mode

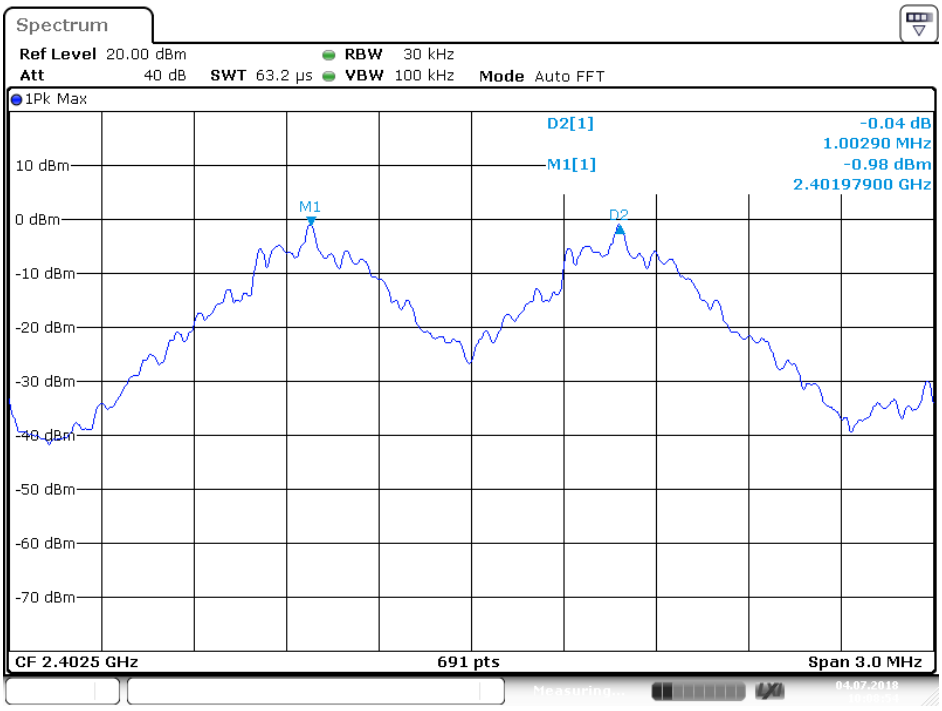
Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	0.9986	25KHz or 2/3*20dB bandwidth	Pass
	2403			
Middle	2440	1.0072	25KHz or 2/3*20dB bandwidth	Pass
	2441			
High	2479	1.0029	25KHz or 2/3*20dB bandwidth	Pass
	2480			

8DPSK Mode

Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	0.9986	25KHz or 2/3*20dB bandwidth	Pass
	2403			
Middle	2440	0.9986	25KHz or 2/3*20dB bandwidth	Pass
	2441			
High	2479	0.9986	25KHz or 2/3*20dB bandwidth	Pass
	2480			

GFSK Mode

Low channel



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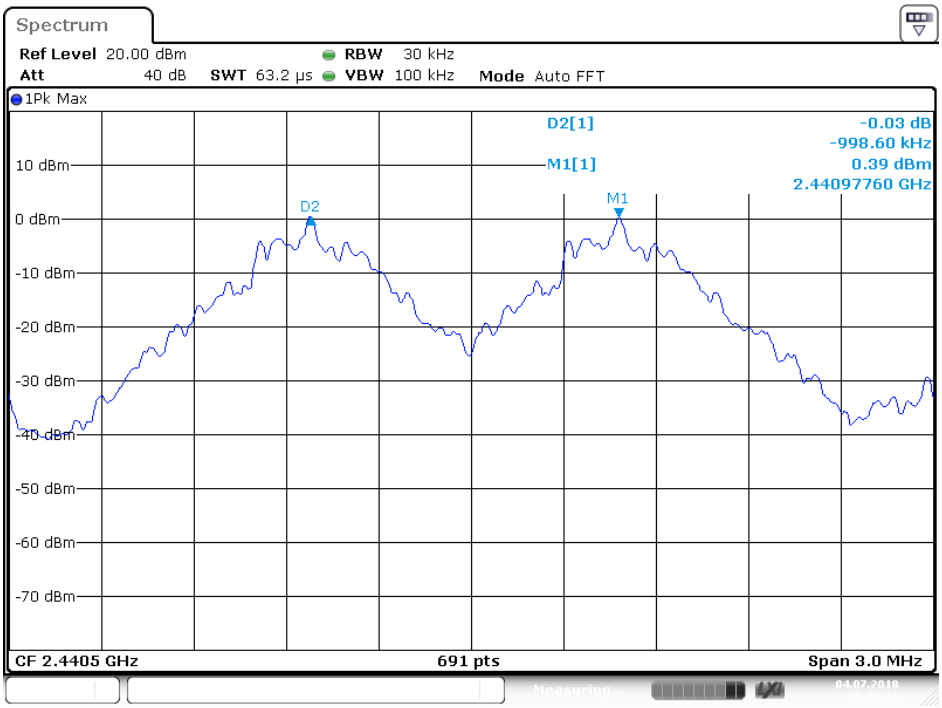
Middle channel



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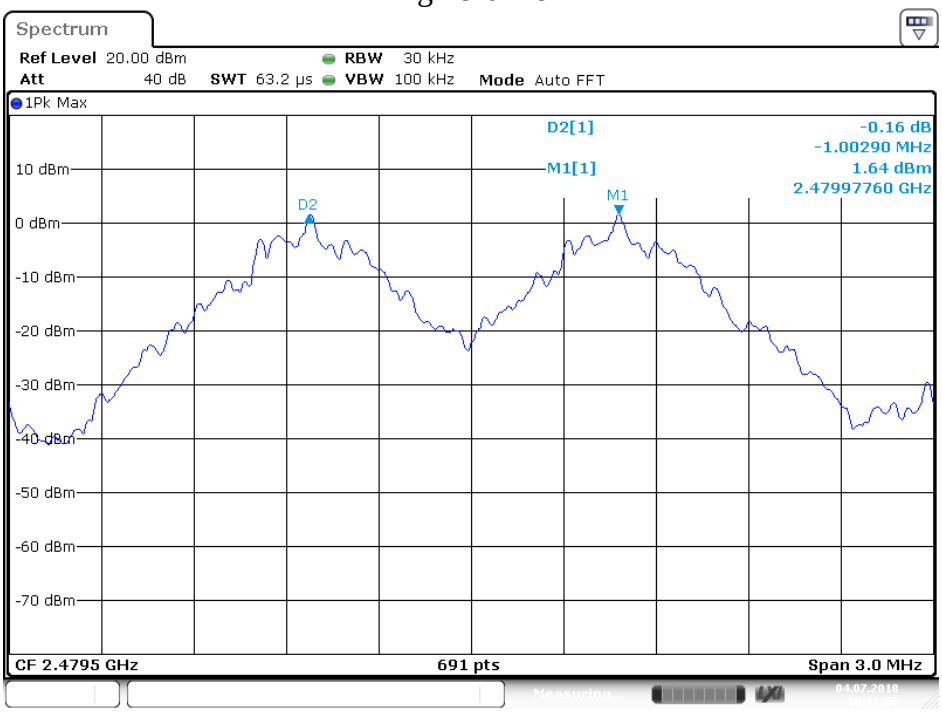
High channel



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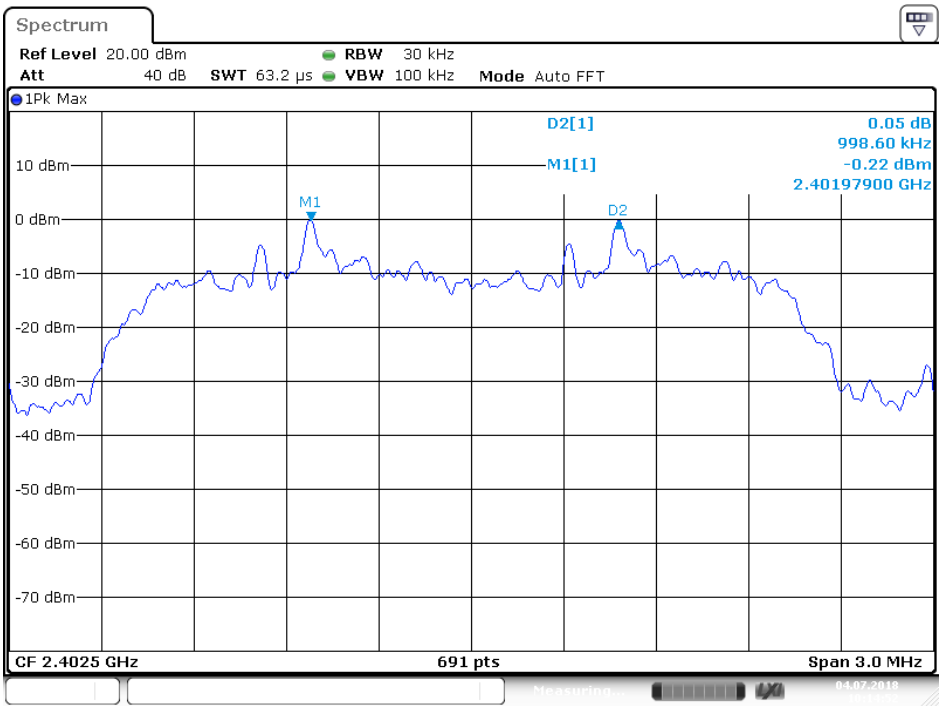
Π/4-DQPSK Mode

Low channel



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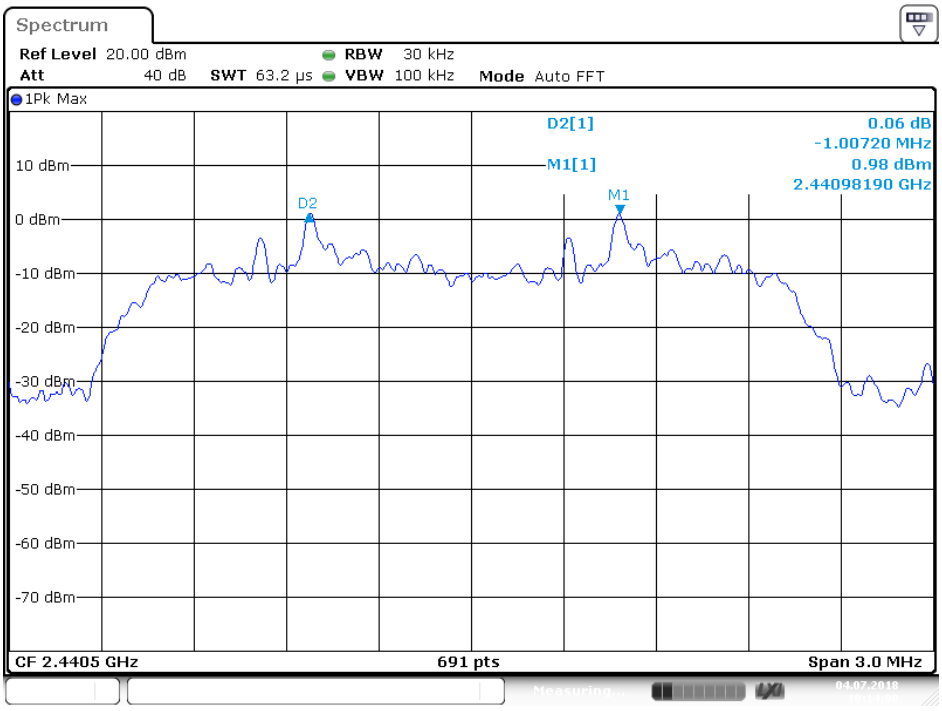
Middle channel



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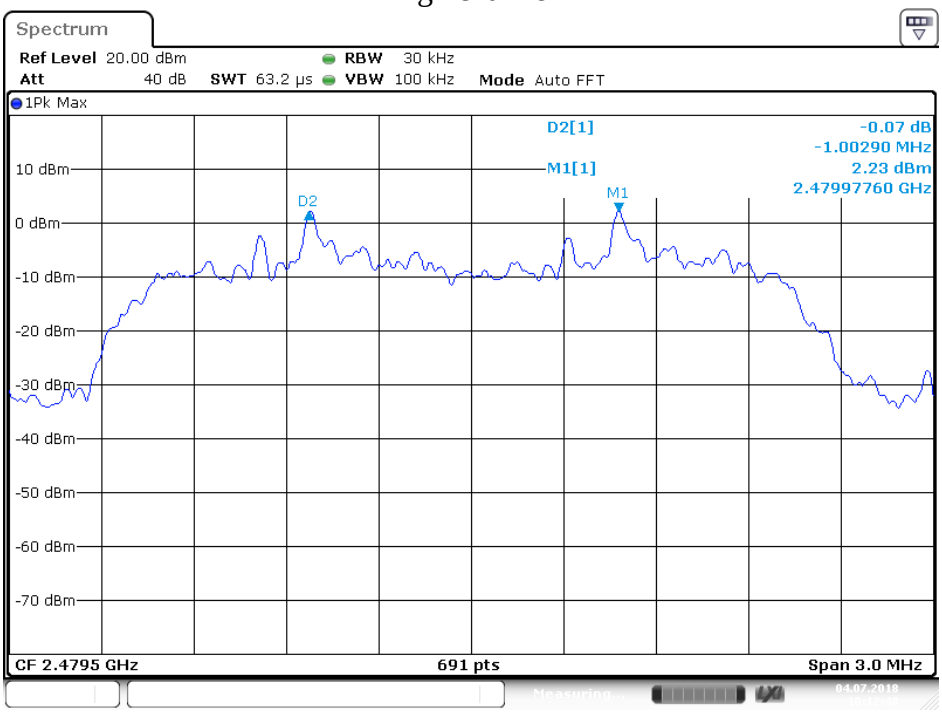
High channel



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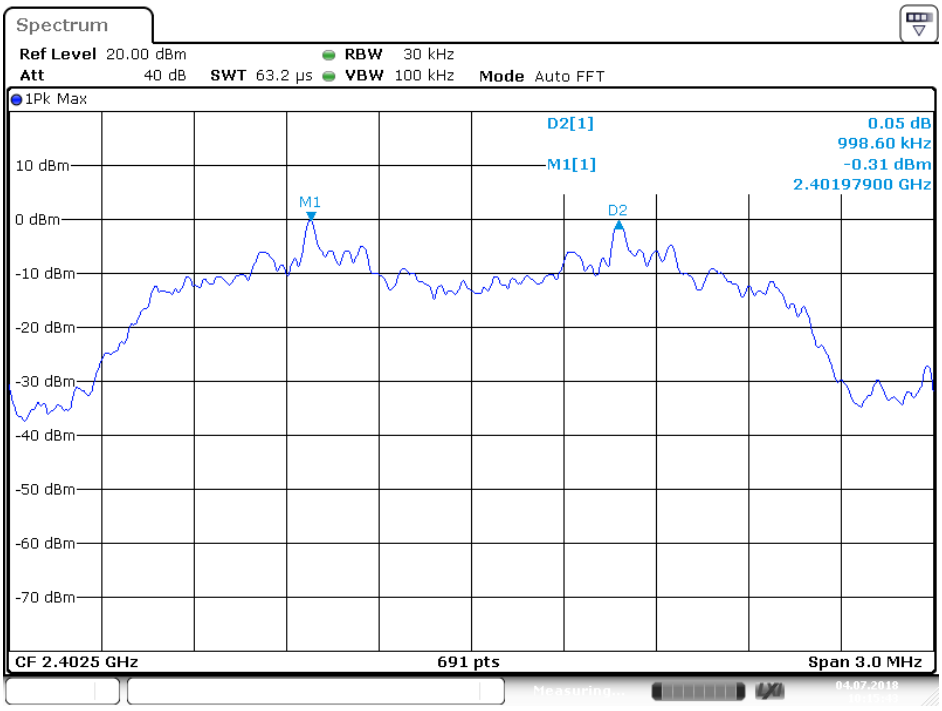
8DPSK Mode

Low channel



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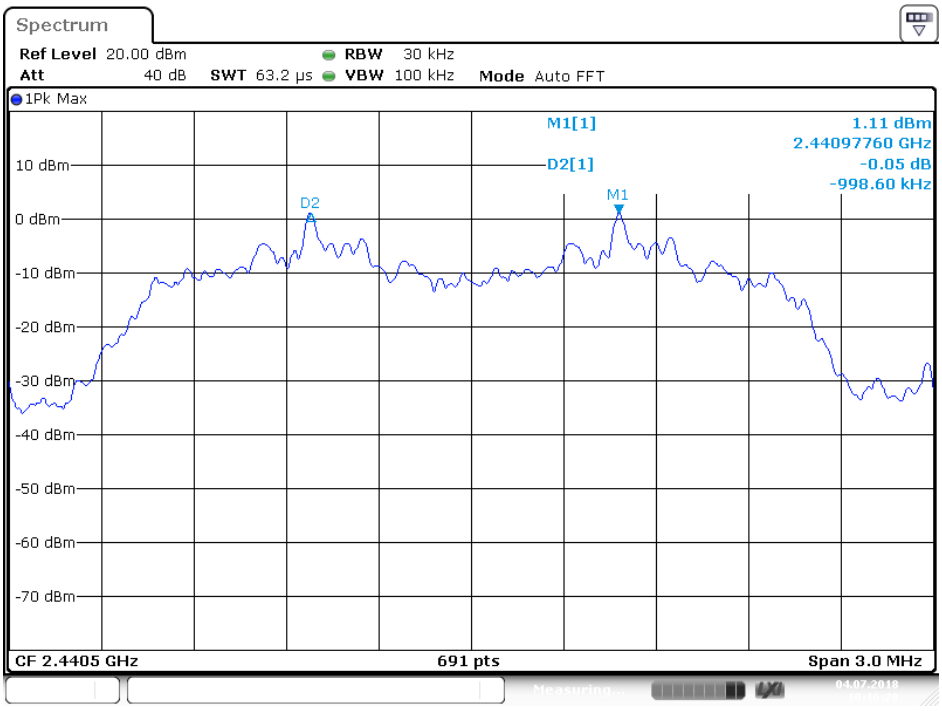
Middle channel



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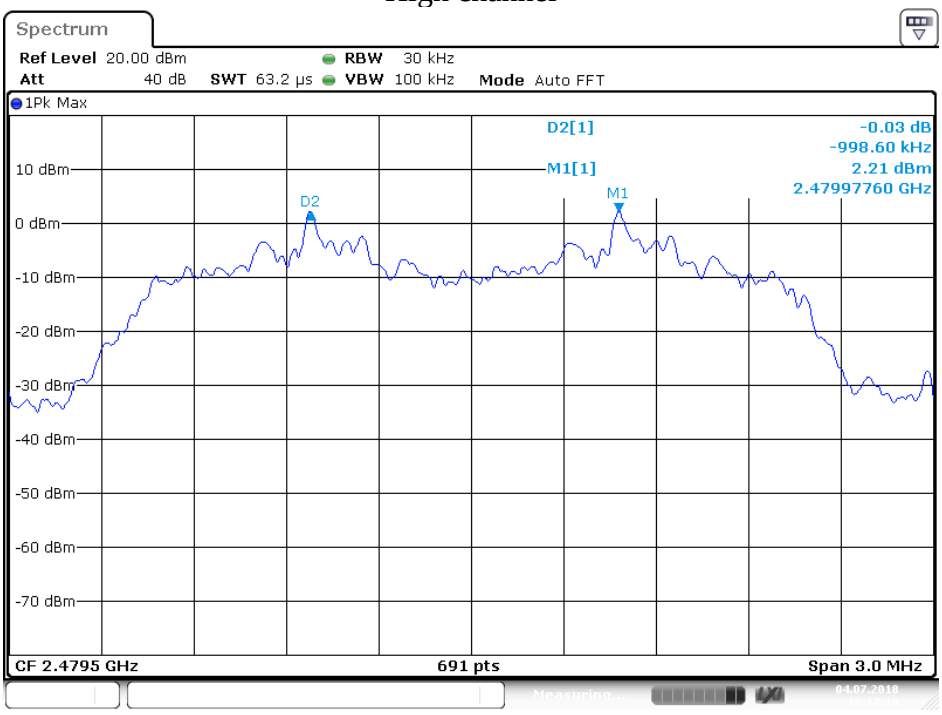
High channel



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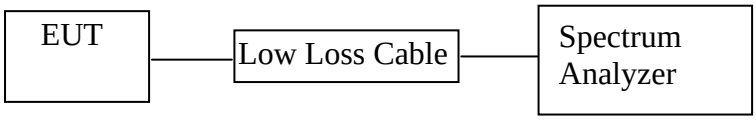
8. NUMBER OF HOPPING FREQUENCY TEST

8.1.Block Diagram of Test Setup



(EUT: Bluetooth Headset)

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.

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.

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

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

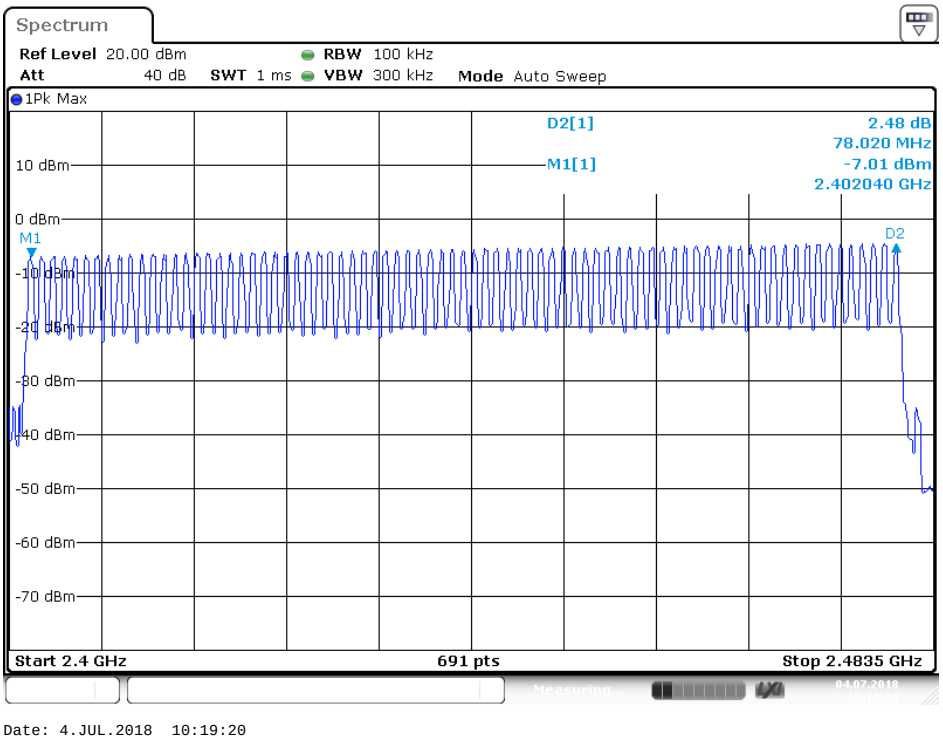
8.6.Test Result

Test Lab: Shielding room
Test Engineer: Star

Total number of hopping channel	Measurement result(CH)	Limit(CH)	Result
	79	⩾15	Pass

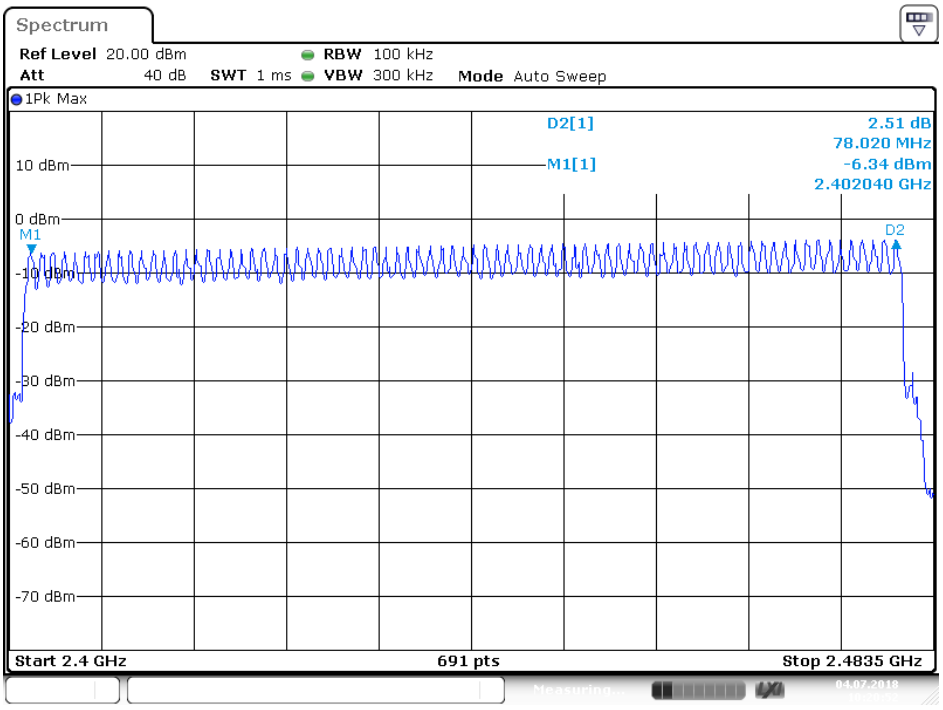
The spectrum analyzer plots are attached as below.

Number of hopping channels(GFSK Mode)



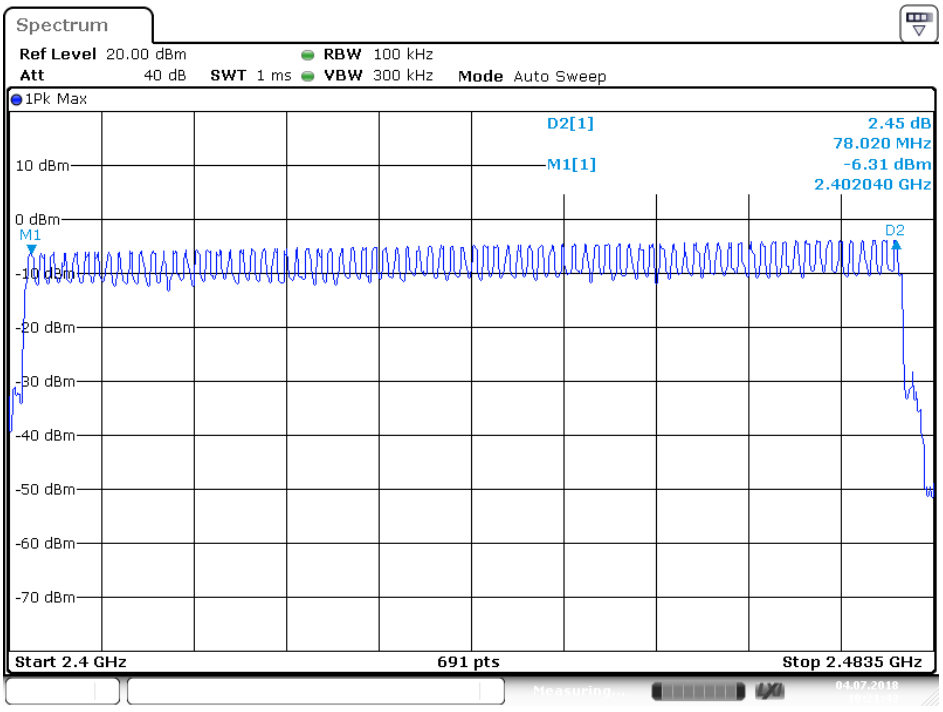
Date: 4.JUL.2018 10:19:20

Number of hopping channels(Π/4-DQPSK Mode)



Date: 4.JUL.2018 10:20:52

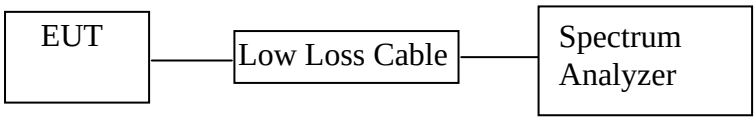
Number of hopping channels(8DPSK Mode)



Date: 4.JUL.2018 10:21:43

9. DWELL TIME TEST

9.1.Block Diagram of Test Setup



(EUT: Bluetooth Headset)

9.2.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.

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 on) 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 center frequency of spectrum analyzer = operating frequency.

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

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

9.6.Test Result

PASS.
Test Lab: Shielding room
Test Engineer: Star

GFSK Mode (Worst case)

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2441	0.435	139.200	400
A period transmit time = 0.4 × 79 = 31.6		Dwell time = pulse time × (1600/(2*79))×31.6		
DH3	2441	1.710	273.600	400
A period transmit time = 0.4 × 79 = 31.6		Dwell time = pulse time × (1600/(4*79))×31.6		
DH5	2441	2.993	319.253	400
A period transmit time = 0.4 × 79 = 31.6		Dwell time = pulse time × (1600/(6*79))×31.6		

Π/4-DQPSK Mode (Worst case)

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2441	0.449	143.680	400
A period transmit time = 0.4 × 79 = 31.6		Dwell time = pulse time × (1600/(2*79))×31.6		
DH3	2441	1.710	273.600	400
A period transmit time = 0.4 × 79 = 31.6		Dwell time = pulse time × (1600/(4*79))×31.6		
DH5	2441	2.993	319.253	400
A period transmit time = 0.4 × 79 = 31.6		Dwell time = pulse time × (1600/(6*79))×31.6		

8DPSK Mode (Worst case)

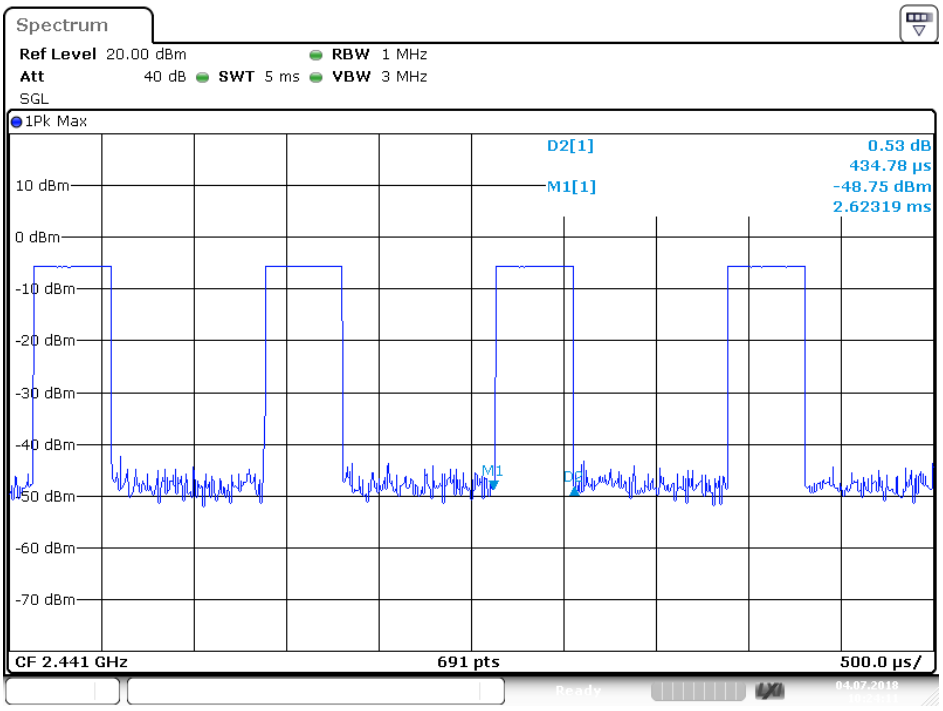
Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2441	0.449	143.680	400
A period transmit time = 0.4 × 79 = 31.6		Dwell time = pulse time × (1600/(2*79))×31.6		
DH3	2441	1.696	271.360	400
A period transmit time = 0.4 × 79 = 31.6		Dwell time = pulse time × (1600/(4*79))×31.6		
DH5	2441	2.978	317.653	400
A period transmit time = 0.4 × 79 = 31.6		Dwell time = pulse time × (1600/(6*79))×31.6		

Note: We tested GFSK mode and Π/4-DQPSK & 8DPSK mode the low, middle and high channel and recorded the worst case data for all test mode.

The spectrum analyzer plots are attached as below.

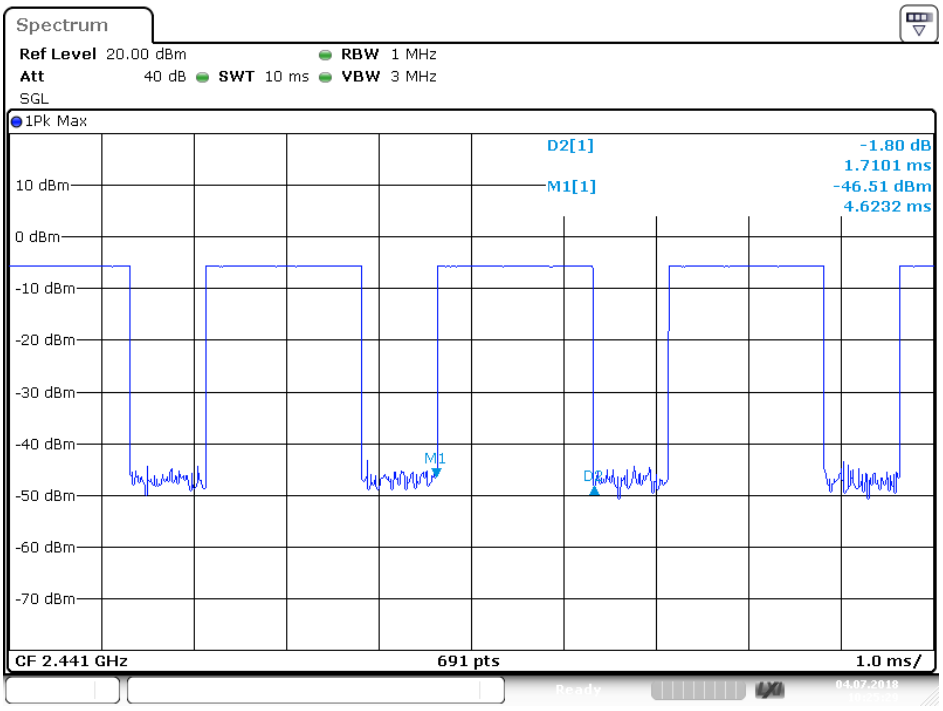
GFSK Mode

DH1 Middle channel



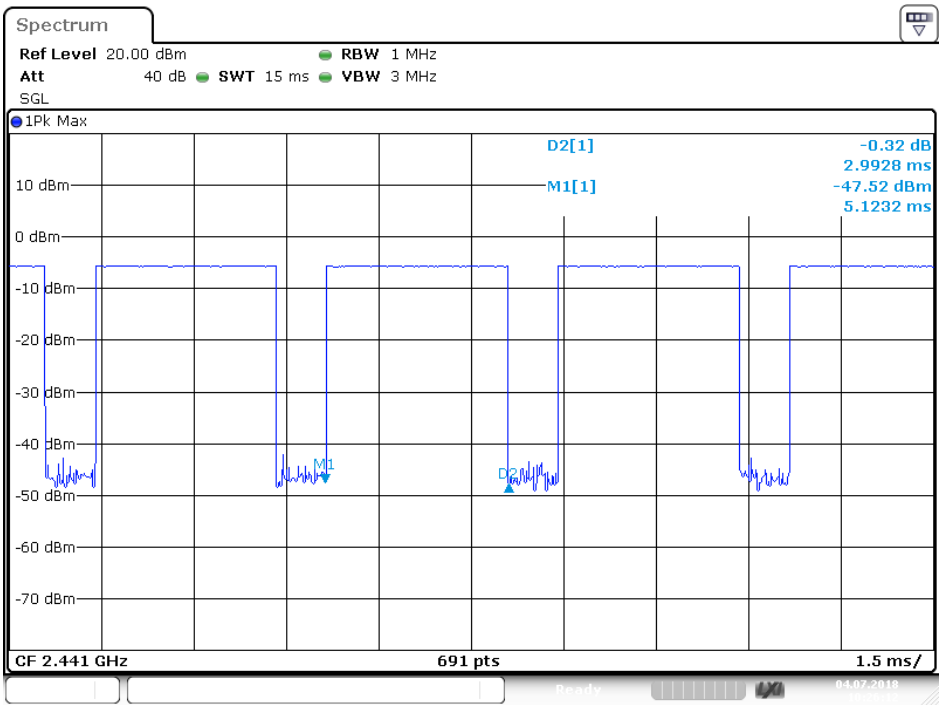
Date: 4.JUL.2018 10:24:11

DH3 Middle channel



Date: 4.JUL.2018 10:25:29

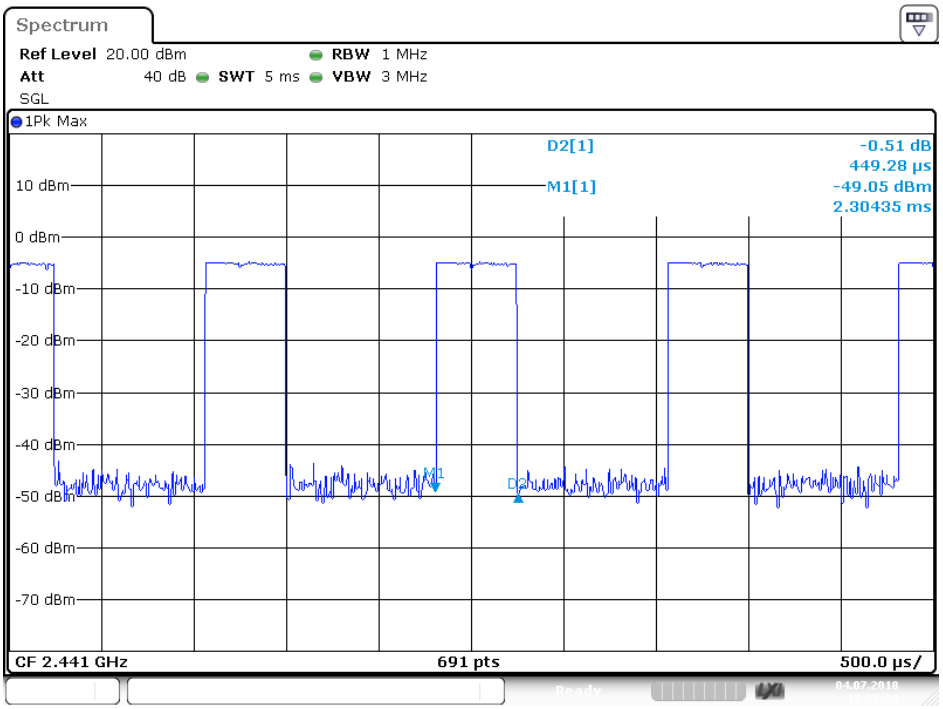
DH5 Middle channel



Date: 4.JUL.2018 10:26:12

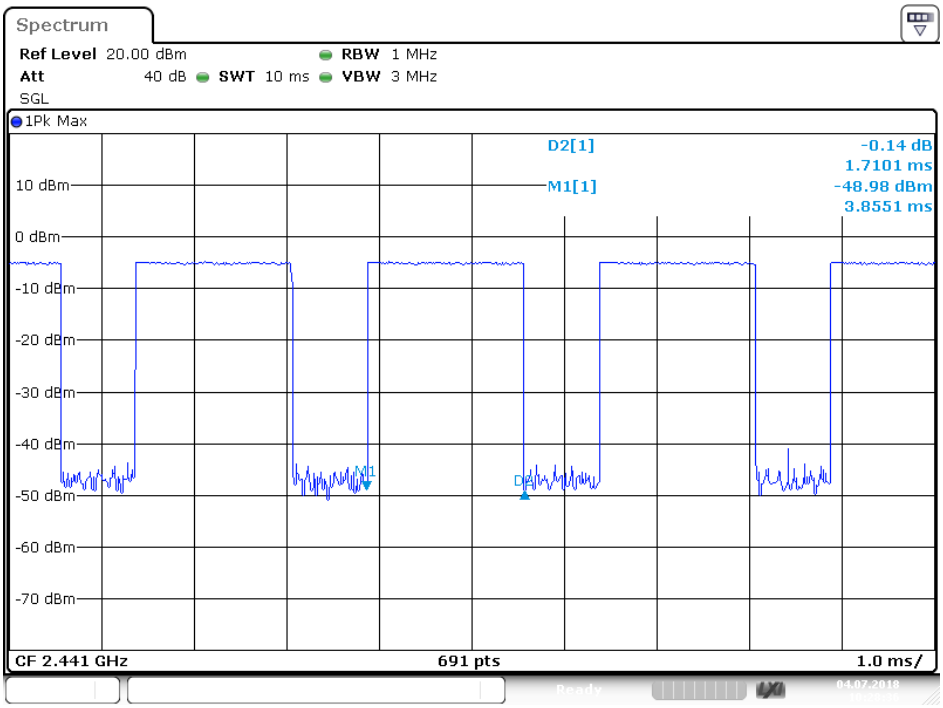
Π/4-DQPSK Mode

2-DH1 Middle channel



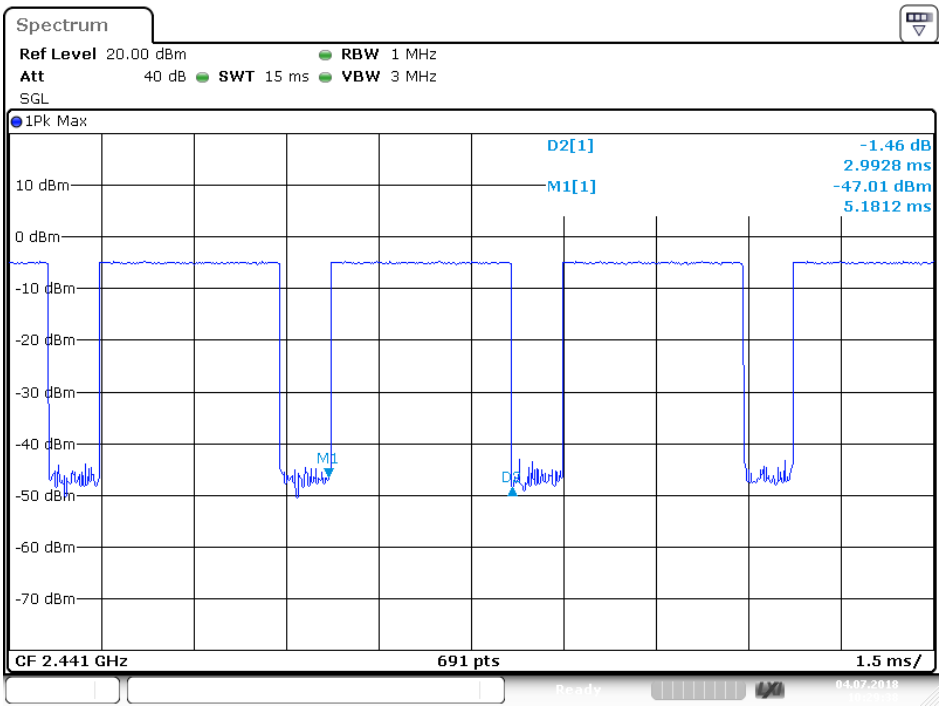
Date: 4.JUL.2018 10:27:29

2-DH3 Middle channel



Date: 4.JUL.2018 10:28:35

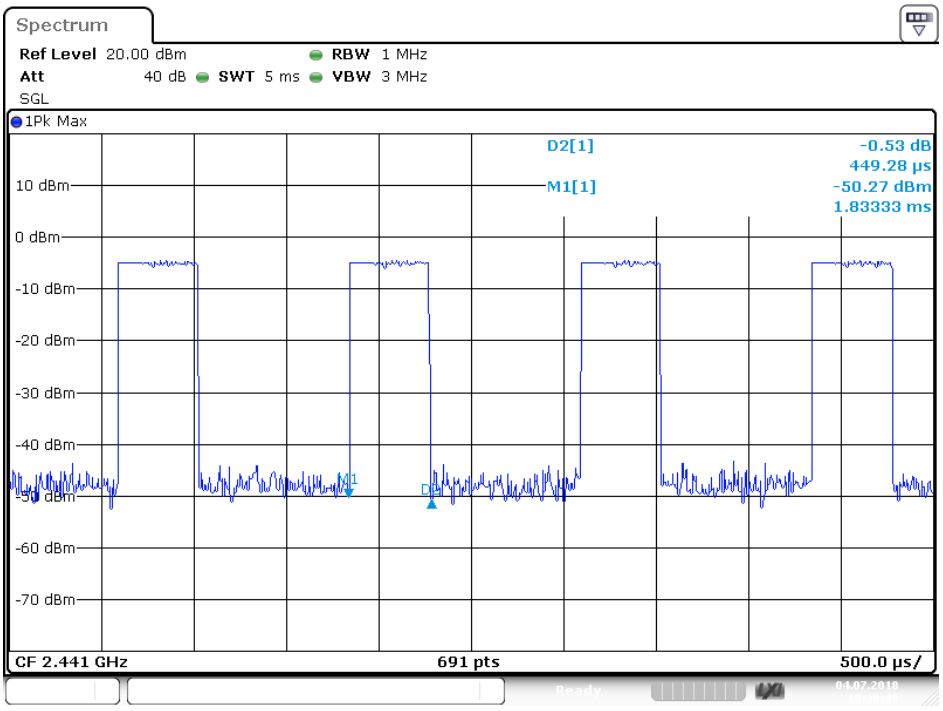
2-DH5 Middle channel



Date: 4.JUL.2018 10:29:38

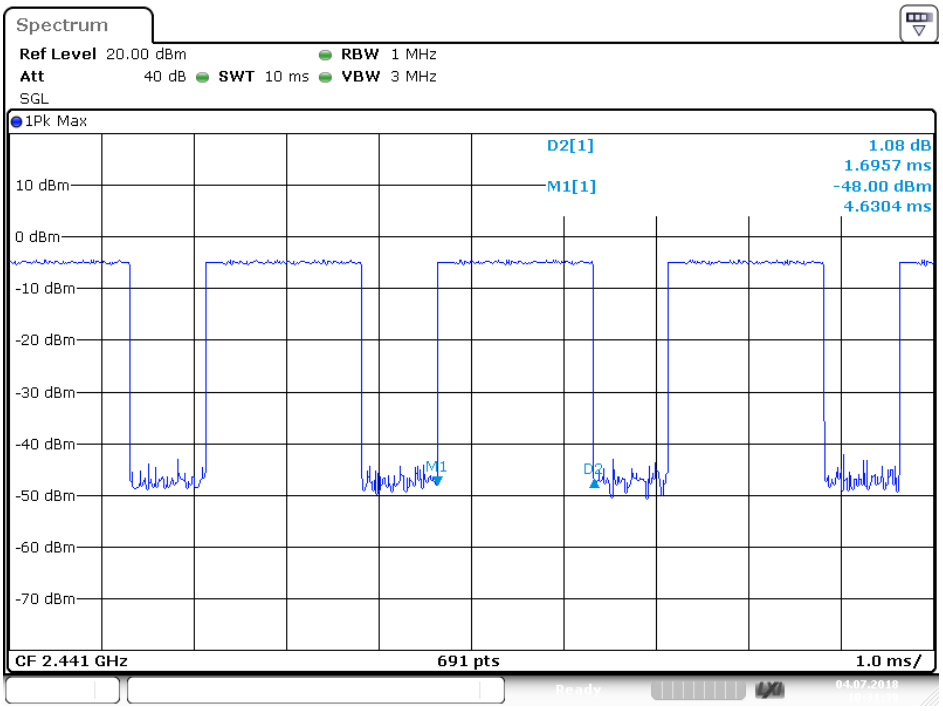
8DPSK Mode

3-DH1 Middle channel



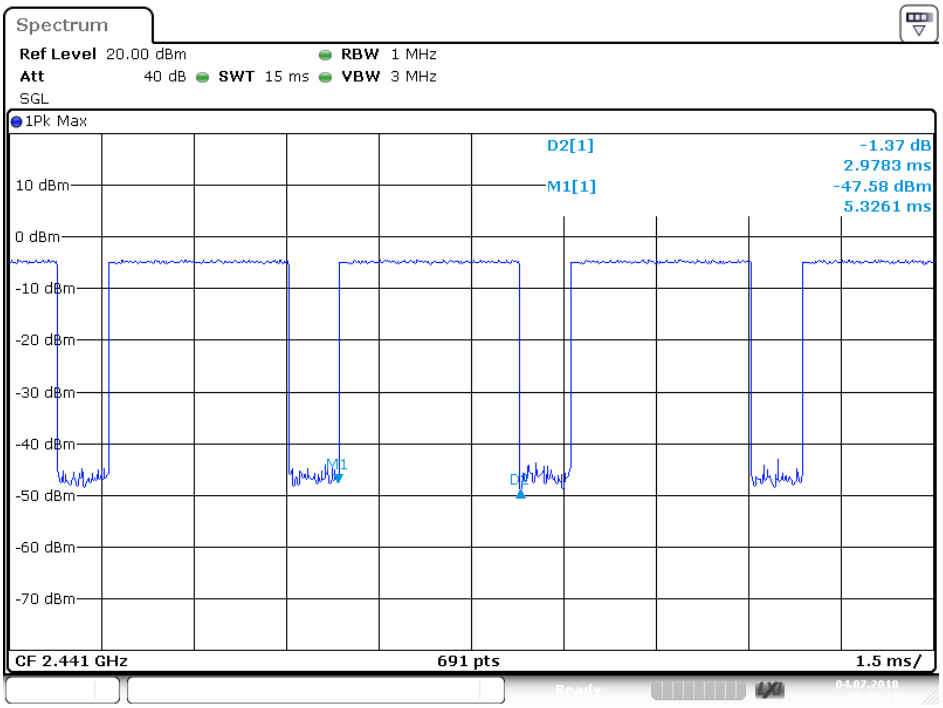
Date: 4.JUL.2018 10:30:49

3-DH3 Middle channel



Date: 4.JUL.2018 10:31:39

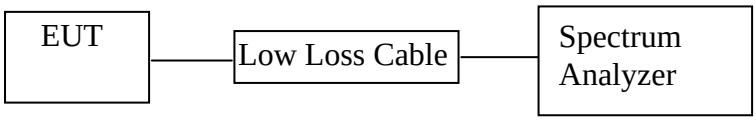
3-DH5 Middle channel



Date: 4.JUL.2018 10:32:20

10.MAXIMUM PEAK OUTPUT POWER TEST

10.1.Block Diagram of Test Setup



(EUT: Bluetooth Headset)

10.2.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.

10.3.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.

10.4.Operating Condition of EUT

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

10.4.2.Turn on the power of all equipment.

10.4.3.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.

10.5.Test Procedure

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

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

10.5.3.Measurement the maximum peak output power.

10.6.Test Result

Test Lab: Shielding room
Test Engineer: Star

GFSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W	Result
Low	2402	-0.70/0.0009	21 / 0.125	Pass
Middle	2441	0.59/0.0011	21 / 0.125	Pass
High	2480	1.78/0.0015	21 / 0.125	Pass

Π/4-DQPSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W	Result
Low	2402	0.45/0.0011	21 / 0.125	Pass
Middle	2441	1.79/0.0015	21 / 0.125	Pass
High	2480	2.96/0.0020	21 / 0.125	Pass

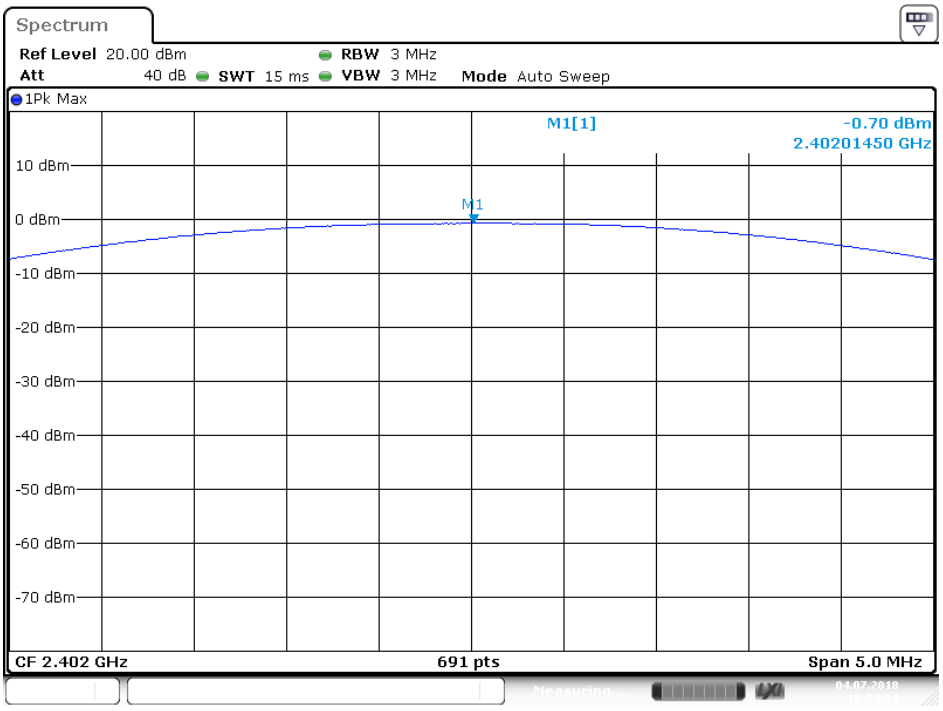
8DPSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W	Result
Low	2402	0.60/0.0011	21 / 0.125	Pass
Middle	2441	1.91/0.0016	21 / 0.125	Pass
High	2480	3.08/0.0020	21 / 0.125	Pass

The spectrum analyzer plots are attached as below.

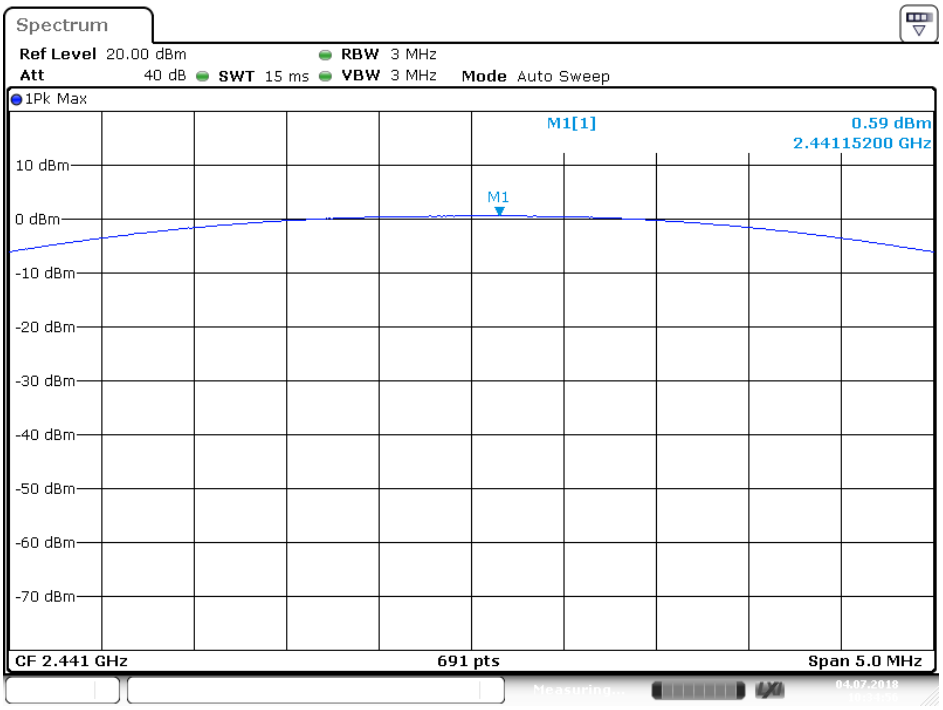
GFSK Mode

Low channel



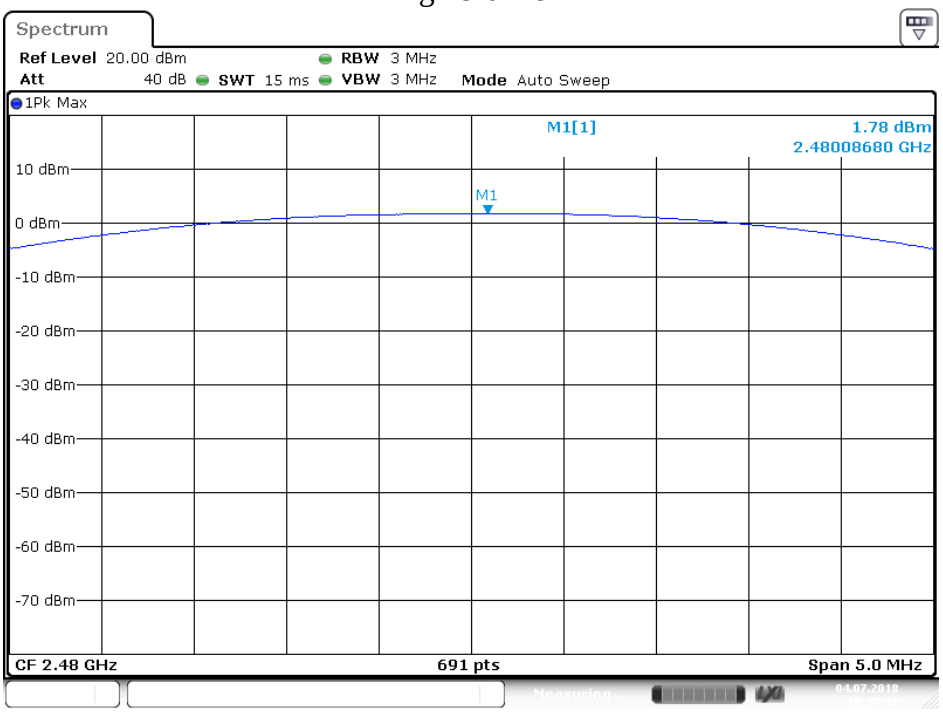
Date: 4.JUL.2018 10:34:14

Middle channel



Date: 4.JUL.2018 10:34:55

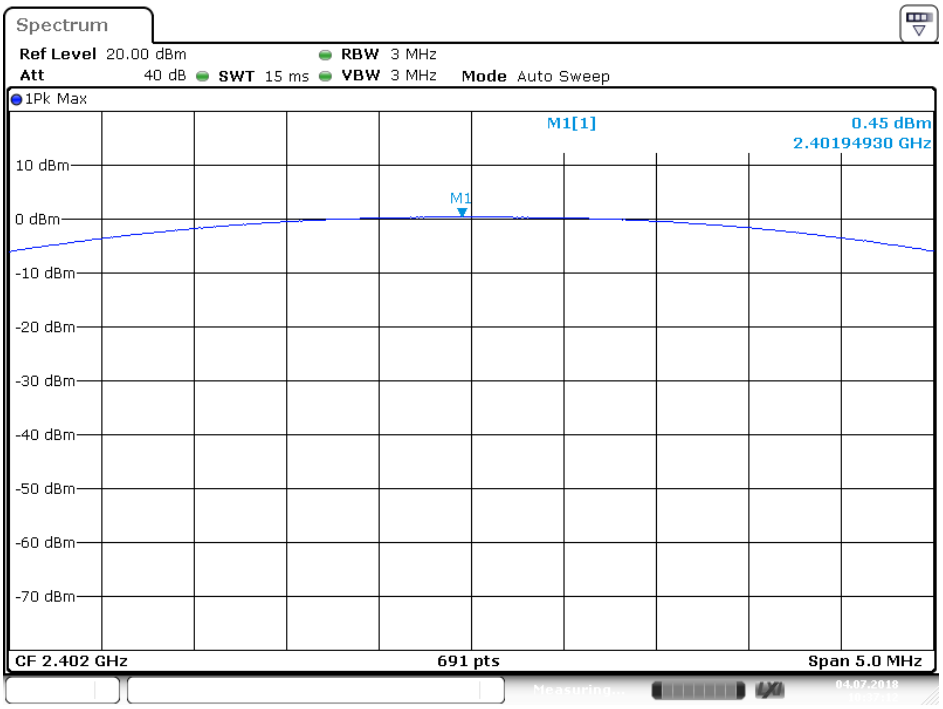
High channel



Date: 4.JUL.2018 10:35:32

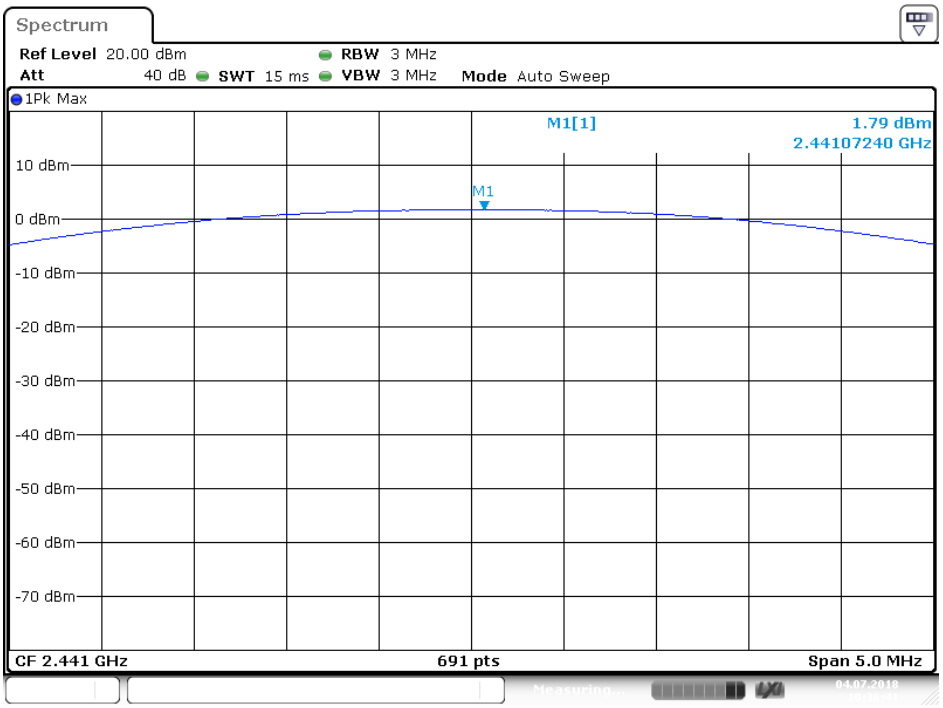
Π/4-DQPSK Mode

Low channel



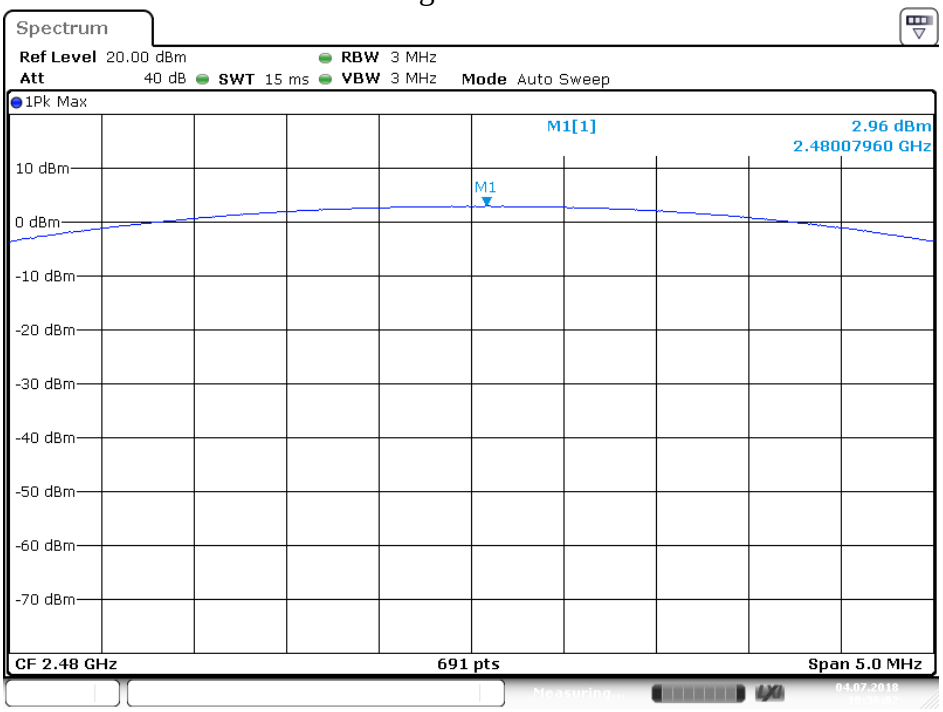
Date: 4.JUL.2018 10:37:12

Middle channel



Date: 4.JUL.2018 10:36:41

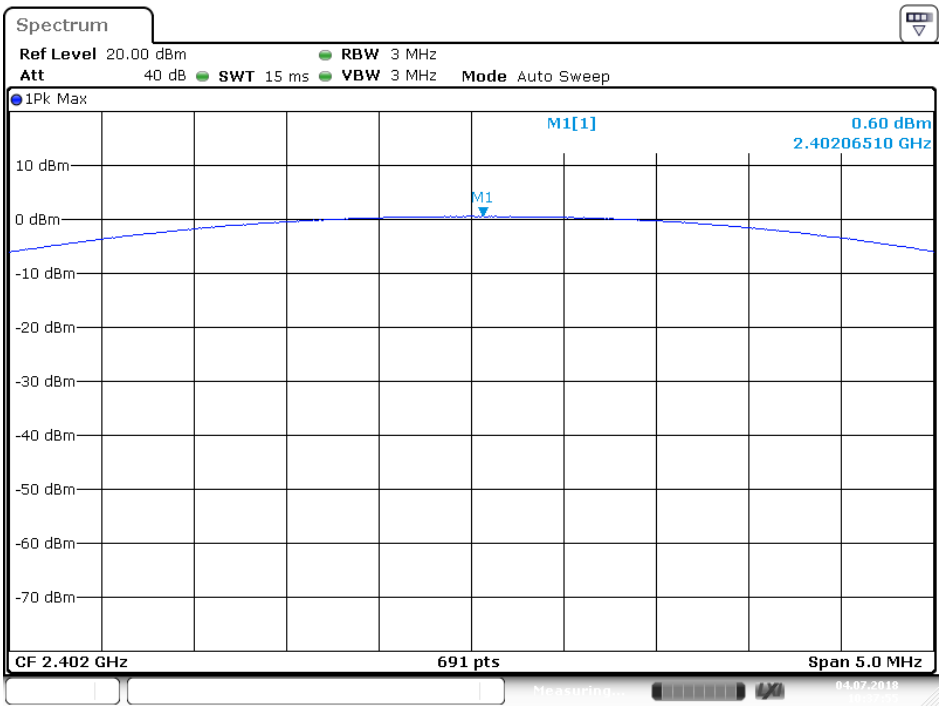
High channel



Date: 4.JUL.2018 10:36:02

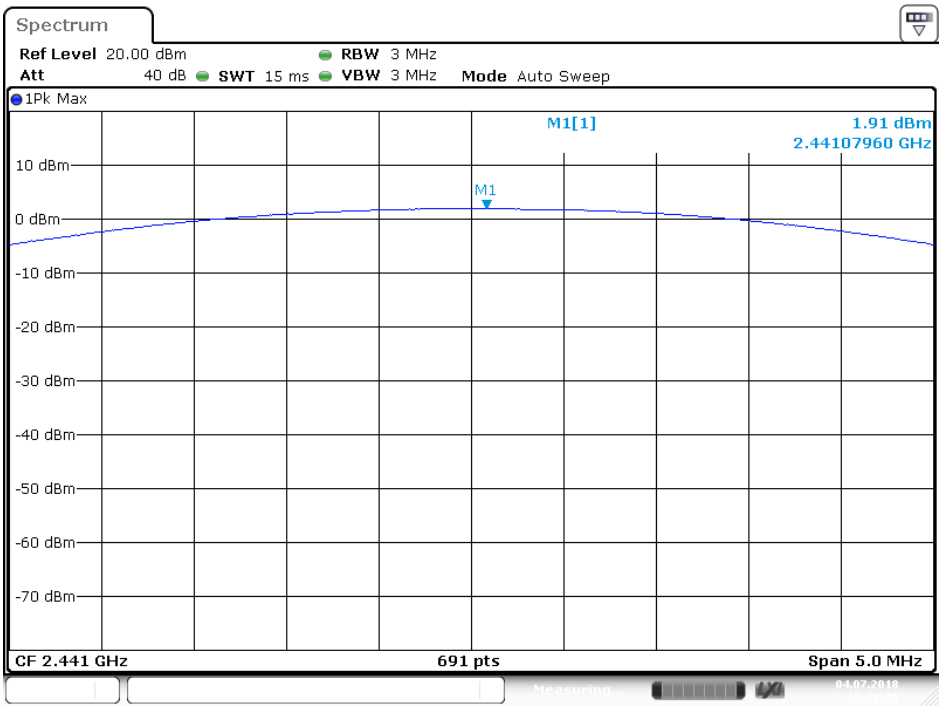
8DPSK Mode

Low channel



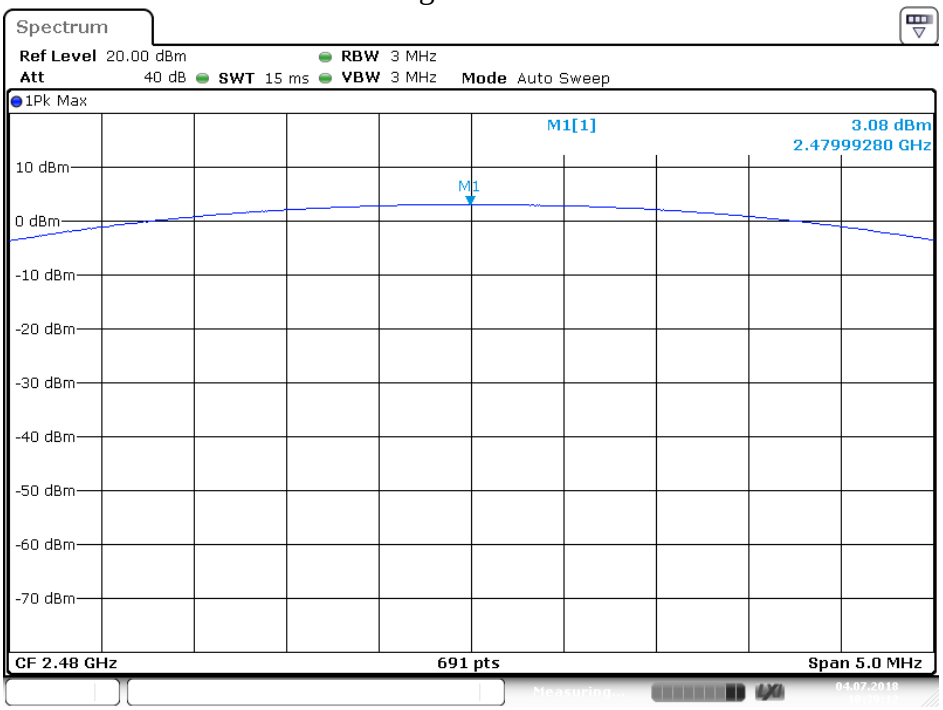
Date: 4.JUL.2018 10:37:55

Middle channel



Date: 4.JUL.2018 10:38:35

High channel



Date: 4.JUL.2018 10:39:11

11.RADIATED EMISSION TEST

11.1.Block Diagram of Test Setup

11.1.1.Block diagram of connection between the EUT and peripherals

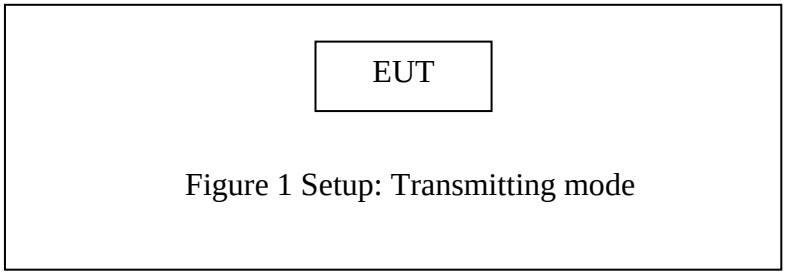
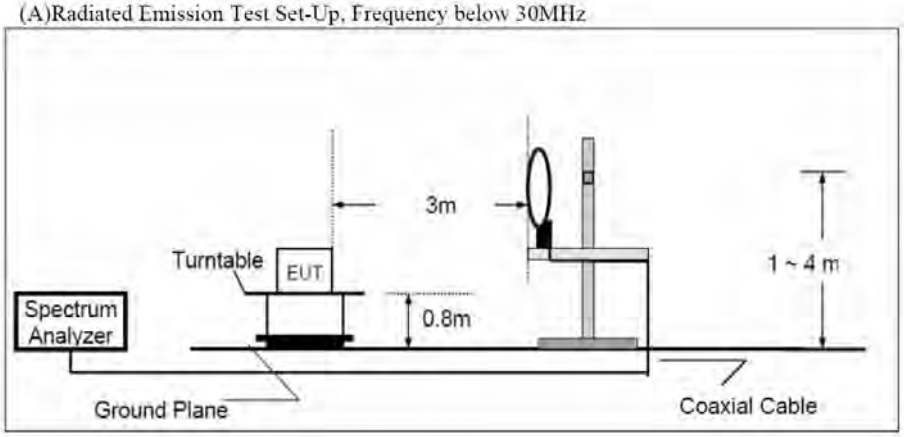


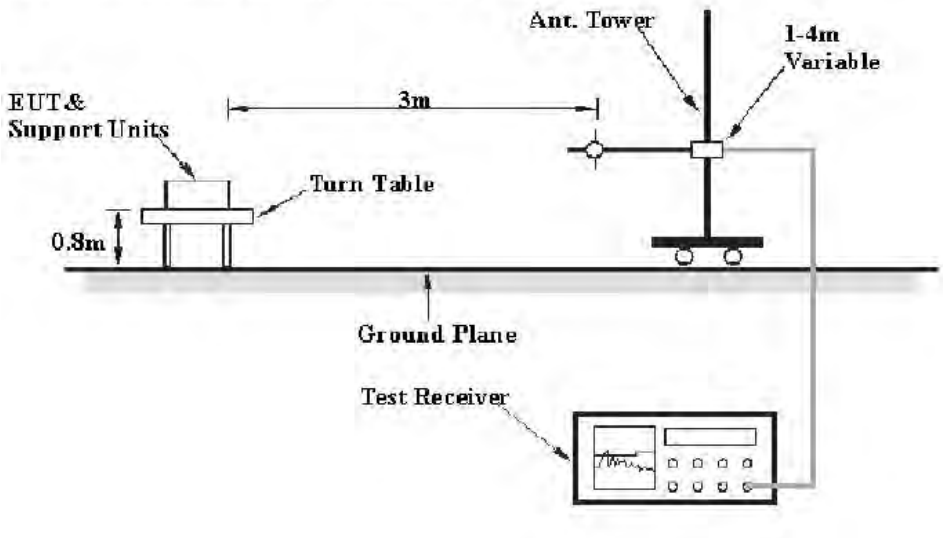
Figure 1 Setup: Transmitting mode

11.1.2.Semi-Anechoic Chamber Test Setup Diagram

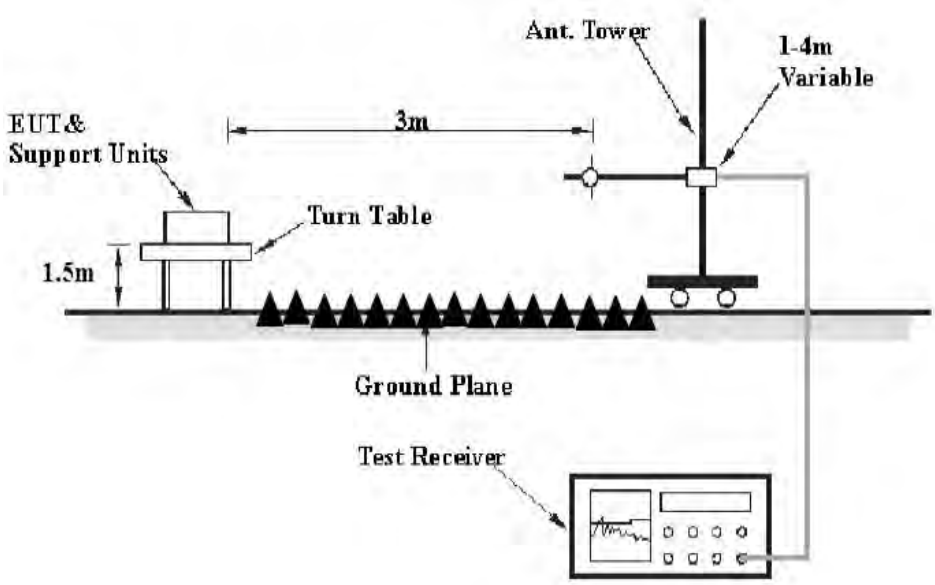
(A)Radiated Emission Test Set-Up, Frequency below 30MHz



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



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



11.2.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).

11.3.Restricted bands of operation

11.3.1.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			

[1]Until February 1, 1999, this restricted band shall be 0.490-0.510
[2]Above 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.

11.4.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.

11.5. Operating Condition of EUT

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

11.5.2. Turn on the power of all equipment.

11.5.3. 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.

11.6. 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.

11.7.Data Sample

Frequency (MHz)	Reading (dBμv)	Factor (dB/m)	Result (dBμv/m)	Limit (dBμv/m)	Margin (dB)	Remark
X.XX	48.69	-13.35	35.34	46	-10.66	QP

Frequency(MHz) = Emission frequency in MHz
Reading(dBμv) = Uncorrected Analyzer/Receiver reading
Factor (dB/m) = Antenna factor + Cable Loss – Amplifier gain
Result(dBμv/m) = Reading(dBμv) + Factor(dB/m)
Limit (dBμv/m) = Limit stated in standard
Margin (dB) = Result(dBμv/m) - Limit (dBμv/m)
QP = Quasi-peak Reading

Calculation Formula:
Margin(dB) = Result (dBμV/m)–Limit(dBμV/m)
Result(dBμV/m)= Reading(dBμV)+ 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.

11.8.The Field Strength of Radiation Emission Measurement Results

PASS.
Test Lab: 3m Anechoic chamber
Test Engineer: Star

Note: 1.We tested GFSK mode, Π/4-DQPSK & 8DPSK Mode and recorded the worst case data (8DPSK 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 26.5GHz.

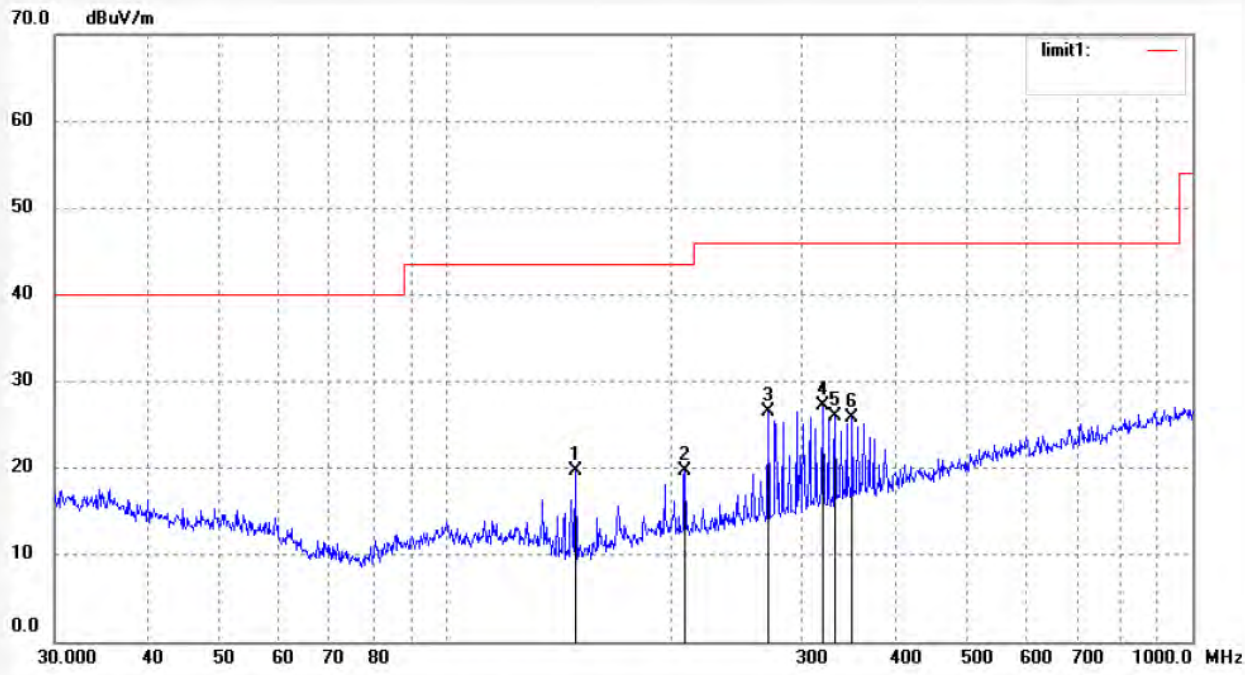
The spectrum analyzer plots are attached as below.

Below 1GHz

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: star2016 #2590	Polarization: Horizontal
Standard: FCC PART 15C 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2018/07/03
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 16:44:23
EUT: Bluetooth Headset	Engineer Signature: star
Mode: TX 2402MHz (8DPSK)	Distance: 3m
Model: BT539i V2	
Manufacturer: Baizhenrong	

Note: Report No.: ATE20181147



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	149.4857	36.07	-16.47	19.60	43.50	-23.90	peak			
2	209.3129	33.56	-13.87	19.69	43.50	-23.81	peak			
3	270.3748	38.66	-12.09	26.57	46.00	-19.43	peak			
4	319.9370	38.07	-10.84	27.23	46.00	-18.77	peak			
5	332.5187	36.53	-10.46	26.07	46.00	-19.93	peak			
6	350.4768	35.74	-10.00	25.74	46.00	-20.26	peak			

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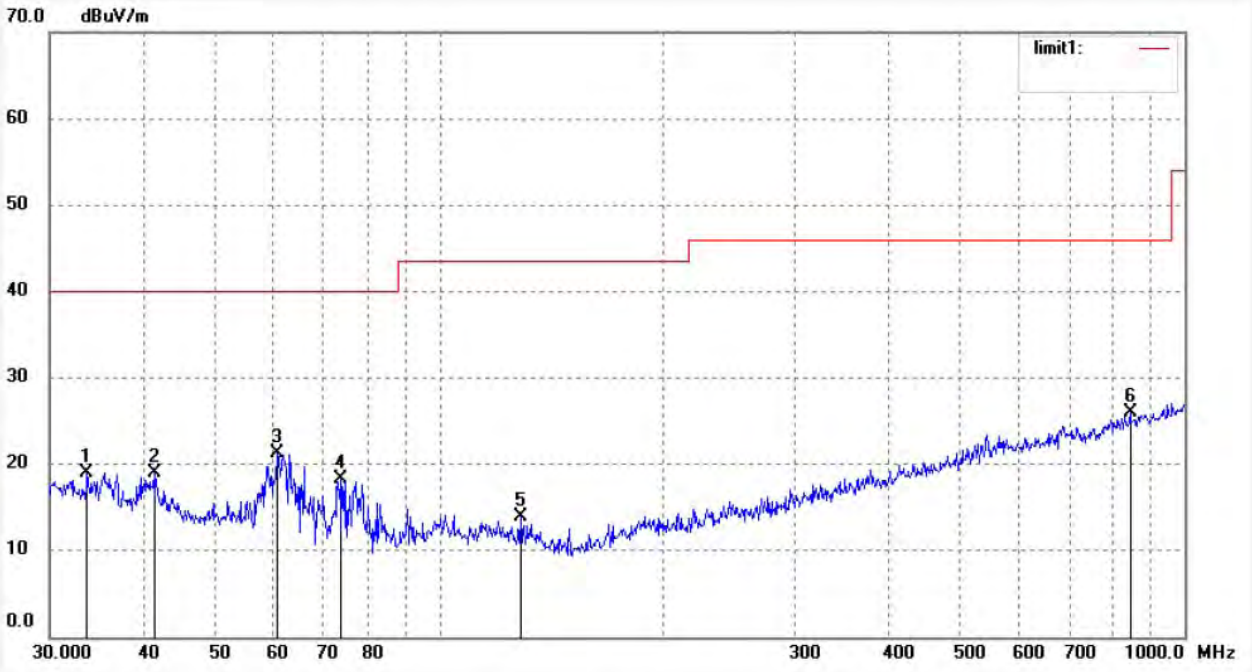
Job No.: star2016 #2589
Standard: FCC PART 15C 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Headset
Mode: TX 2402MHz (8DPSK)
Model: BT539i V2
Manufacturer: Baizhenrong

Polarization: Vertical
Power Source: DC 3.7V
Date: 2018/07/03
Time: 16:43:02
Engineer Signature: star
Distance: 3m

Note: Report No.: ATE20181147



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.6802	29.34	-10.38	18.96	40.00	-21.04	peak			
2	41.4215	31.25	-12.34	18.91	40.00	-21.09	peak			
3	60.7043	36.16	-14.93	21.23	40.00	-18.77	peak			
4	73.6170	35.66	-17.39	18.27	40.00	-21.73	peak			
5	128.5629	28.82	-14.97	13.85	43.50	-29.65	peak			
6	845.0878	29.01	-2.96	26.05	46.00	-19.95	peak			

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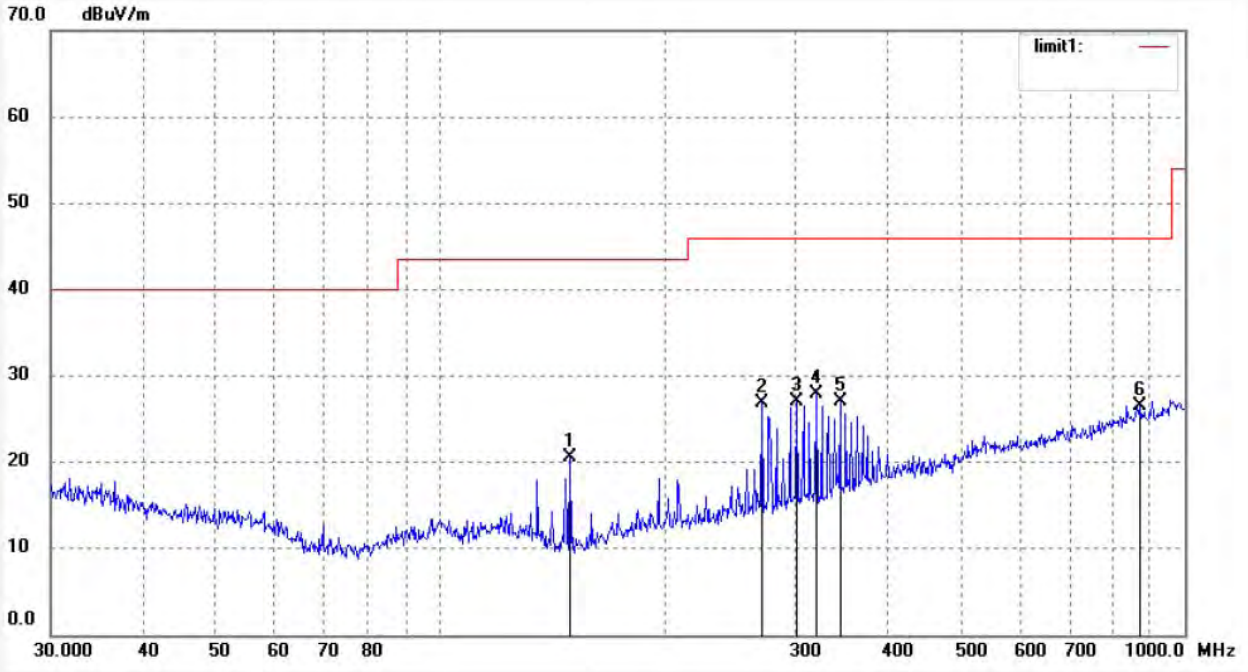
Job No.: star2016 #2591
Standard: FCC PART 15C 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Headset
Mode: TX 2441MHz (8DPSK)
Model: BT539i V2
Manufacturer: Baizhenrong

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2018/07/03
Time: 16:45:41
Engineer Signature: star
Distance: 3m

Note: Report No.: ATE20181147



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	149.4857	36.99	-16.47	20.52	43.50	-22.98	peak			
2	270.3747	39.03	-12.09	26.94	46.00	-19.06	peak			
3	301.4223	38.27	-11.26	27.01	46.00	-18.99	peak			
4	319.9370	38.73	-10.84	27.89	46.00	-18.11	peak			
5	344.3854	37.13	-10.12	27.01	46.00	-18.99	peak			
6	872.1832	29.12	-2.53	26.59	46.00	-19.41	peak			

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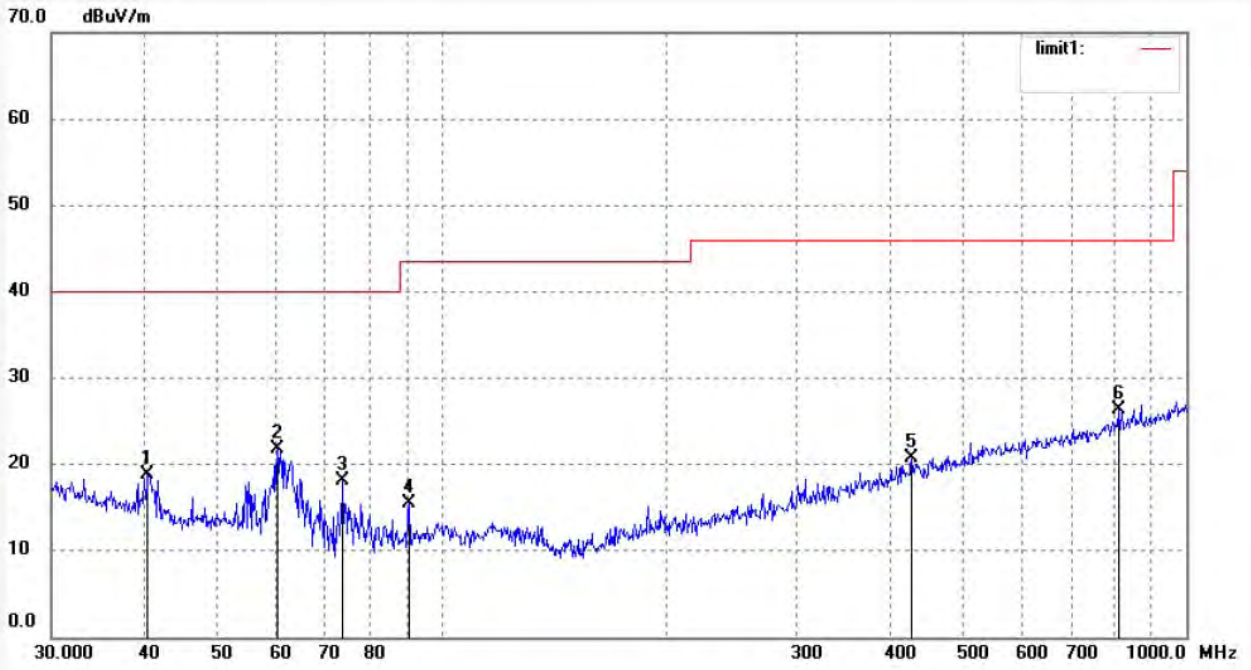
Job No.: star2016 #2592
Standard: FCC PART 15C 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Headset
Mode: TX 2441MHz (8DPSK)
Model: BT539i V2
Manufacturer: Baizhenrong

Polarization: Vertical
Power Source: DC 3.7V
Date: 2018/07/03
Time: 16:46:39
Engineer Signature: star
Distance: 3m

Note: Report No.: ATE20181147



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	40.4172	30.86	-12.10	18.76	40.00	-21.24	peak			
2	60.2800	36.62	-14.78	21.84	40.00	-18.16	peak			
3	73.8756	35.48	-17.41	18.07	40.00	-21.93	peak			
4	90.5374	31.34	-15.93	15.41	43.50	-28.09	peak			
5	428.0192	29.32	-8.64	20.68	46.00	-25.32	peak			
6	810.2653	29.78	-3.38	26.40	46.00	-19.60	peak			

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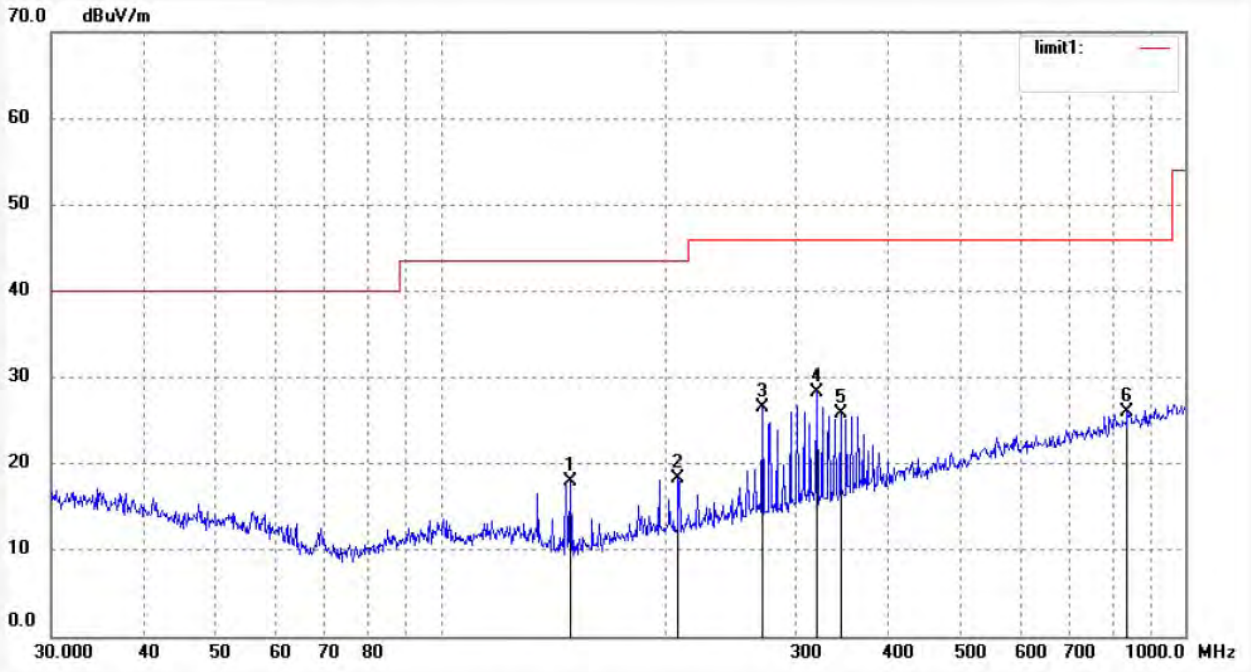
Job No.: star2016 #2594
Standard: FCC PART 15C 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Headset
Mode: TX 2480MHz (8DPSK)
Model: BT539i V2
Manufacturer: Baizhenrong

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2018/07/03
Time: 16:48:38
Engineer Signature: star
Distance: 3m

Note: Report No.: ATE20181147



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	149.4857	34.37	-16.47	17.90	43.50	-25.60	peak			
2	208.5803	32.17	-13.87	18.30	43.50	-25.20	peak			
3	270.3748	38.52	-12.09	26.43	46.00	-19.57	peak			
4	319.9370	39.02	-10.84	28.18	46.00	-17.82	peak			
5	344.3855	35.93	-10.12	25.81	46.00	-20.19	peak			
6	836.2443	29.04	-3.01	26.03	46.00	-19.97	peak			

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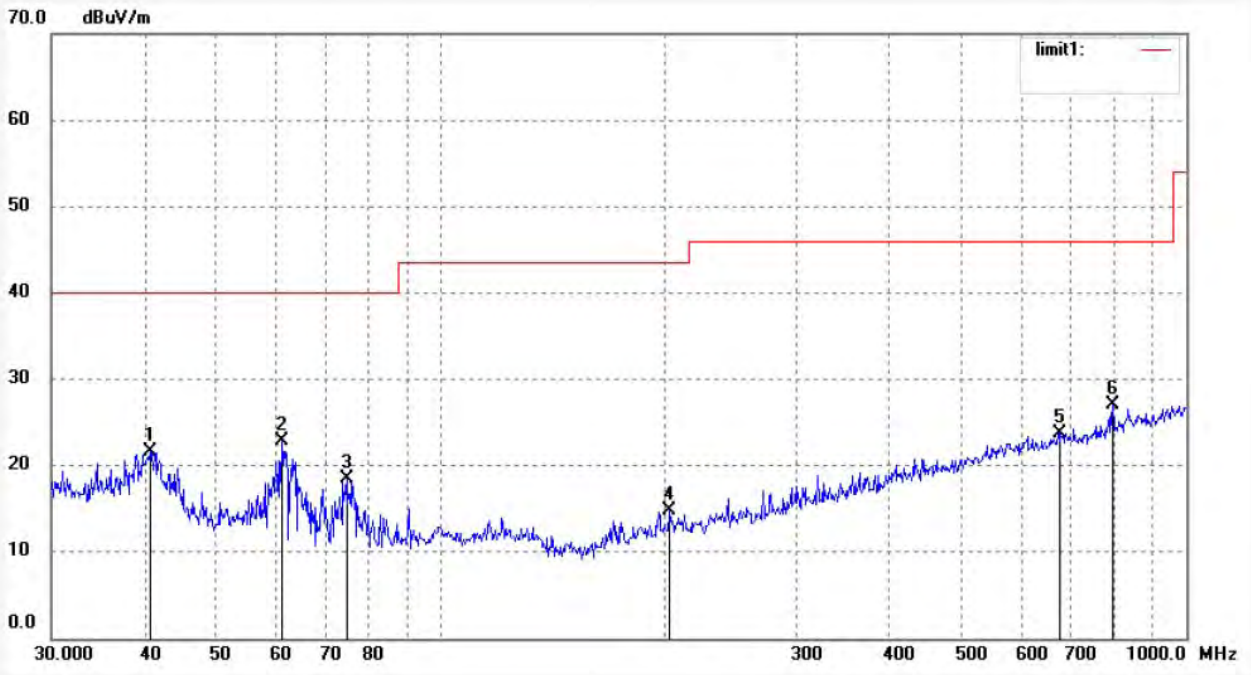
Job No.: star2016 #2593
Standard: FCC PART 15C 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Headset
Mode: TX 2480MHz (8DPSK)
Model: BT539i V2
Manufacturer: Baizhenrong

Polarization: Vertical
Power Source: DC 3.7V
Date: 2018/07/03
Time: 16:47:38
Engineer Signature: star
Distance: 3m

Note: Report No.: ATE20181147



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	40.7014	33.71	-12.17	21.54	40.00	-18.46	peak			
2	61.1315	38.01	-15.09	22.92	40.00	-17.08	peak			
3	74.6568	36.07	-17.53	18.54	40.00	-21.46	peak			
4	202.8103	28.75	-13.97	14.78	43.50	-28.72	peak			
5	677.5797	29.01	-5.28	23.73	46.00	-22.27	peak			
6	796.1829	30.57	-3.58	26.99	46.00	-19.01	peak			

Above 1GHz

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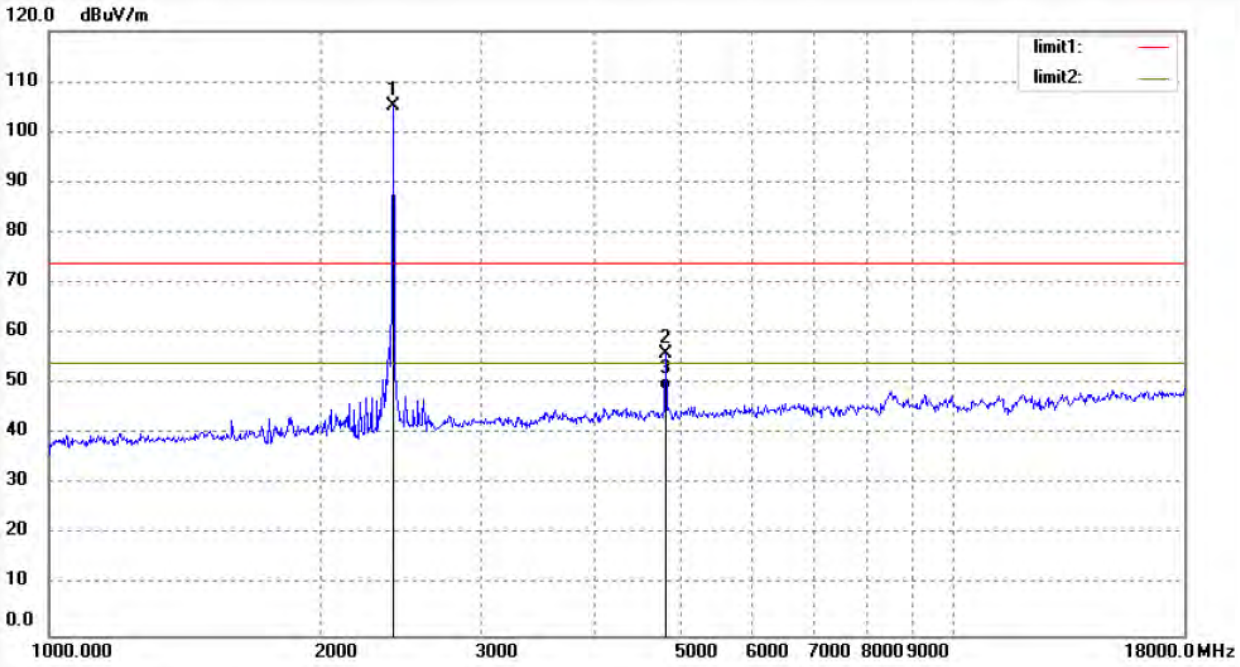
Job No.: star2016 #2595
Standard: FCC PART 15C 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Headset
Mode: TX 2402MHz (8DPSK)
Model: BT539i V2
Manufacturer: Baizhenrong

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2018/07/03
Time: 16:56:29
Engineer Signature: star
Distance: 3m

Note: Report No.: ATE20181147



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.053	104.22	0.88	105.10			peak			
2	4804.110	48.46	7.40	55.86	74.00	-18.14	peak			
3	4804.110	41.36	7.40	48.76	54.00	-5.24	AVG			

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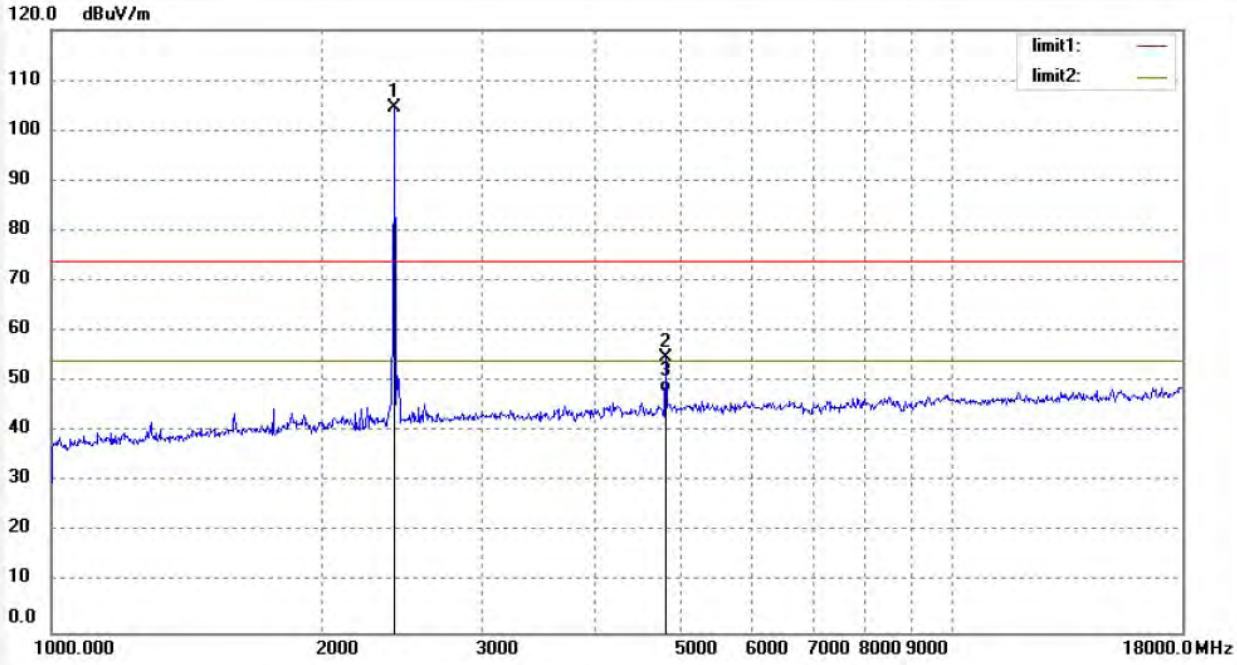
Job No.: star2016 #2596
Standard: FCC PART 15C 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Headset
Mode: TX 2402MHz (8DPSK)
Model: BT539i V2
Manufacturer: Baizhenrong

Polarization: Vertical
Power Source: DC 3.7V
Date: 2018/07/03
Time: 16:57:59
Engineer Signature: star
Distance: 3m

Note: Report No.: ATE20181147



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.053	103.66	0.88	104.54			peak			
2	4804.110	47.50	7.40	54.90	74.00	-19.10	peak			
3	4804.110	40.58	7.40	47.98	54.00	-6.02	AVG			

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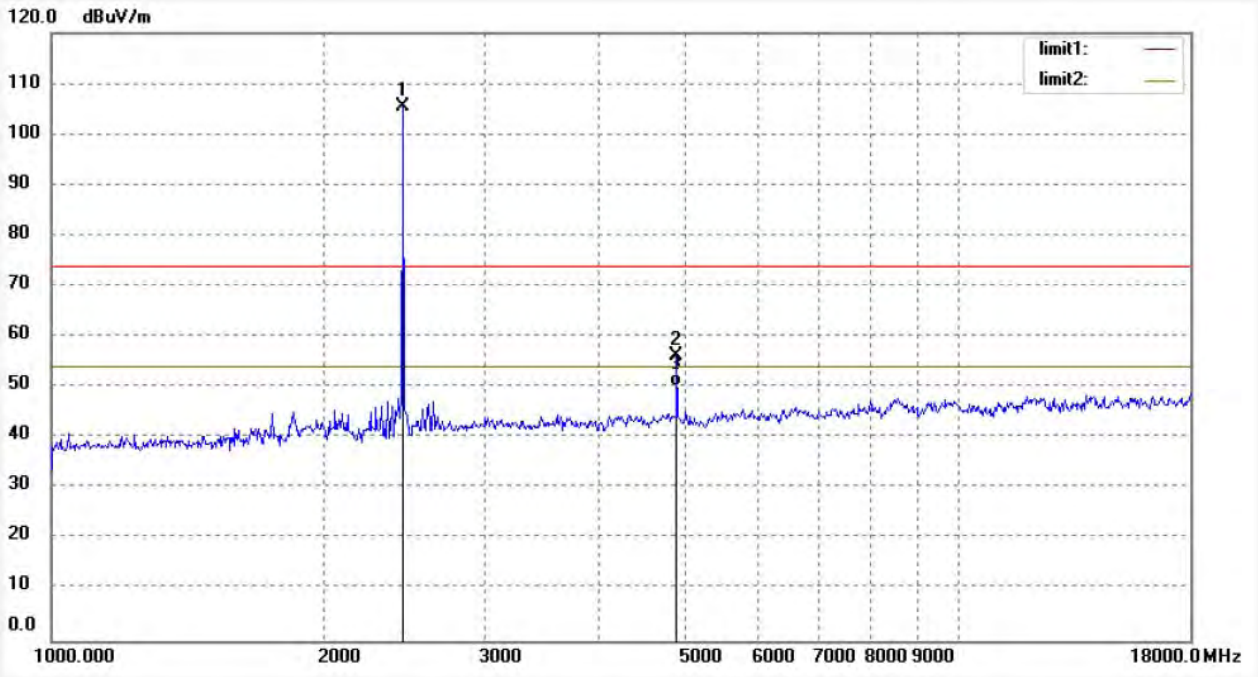
Job No.: star2016 #2598
Standard: FCC PART 15C 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Headset
Mode: TX 2441MHz (8DPSK)
Model: BT539i V2
Manufacturer: Baizhenrong

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2018/07/03
Time: 17:02:16
Engineer Signature: star
Distance: 3m

Note: Report No.: ATE20181147



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.051	104.44	1.06	105.50			peak			
2	4882.151	48.01	8.17	56.18	74.00	-17.82	peak			
3	4882.151	42.08	8.17	50.25	54.00	-3.75	AVG			

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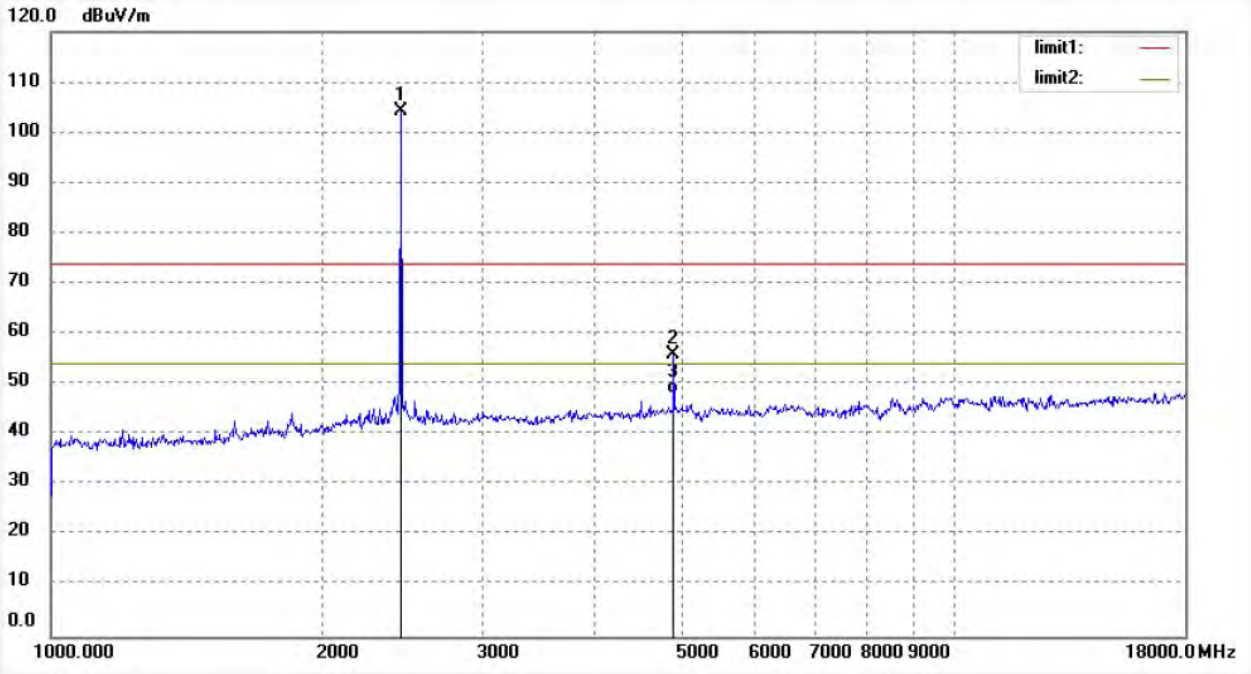
Job No.: star2016 #2597
Standard: FCC PART 15C 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Headset
Mode: TX 2441MHz (8DPSK)
Model: BT539i V2
Manufacturer: Baizhenrong

Polarization: Vertical
Power Source: DC 3.7V
Date: 2018/07/03
Time: 17:00:44
Engineer Signature: star
Distance: 3m

Note: Report No.: ATE20181147



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.051	103.24	1.06	104.30			peak			
2	4882.151	47.69	8.17	55.86	74.00	-18.14	peak			
3	4882.151	40.10	8.17	48.27	54.00	-5.73	AVG			

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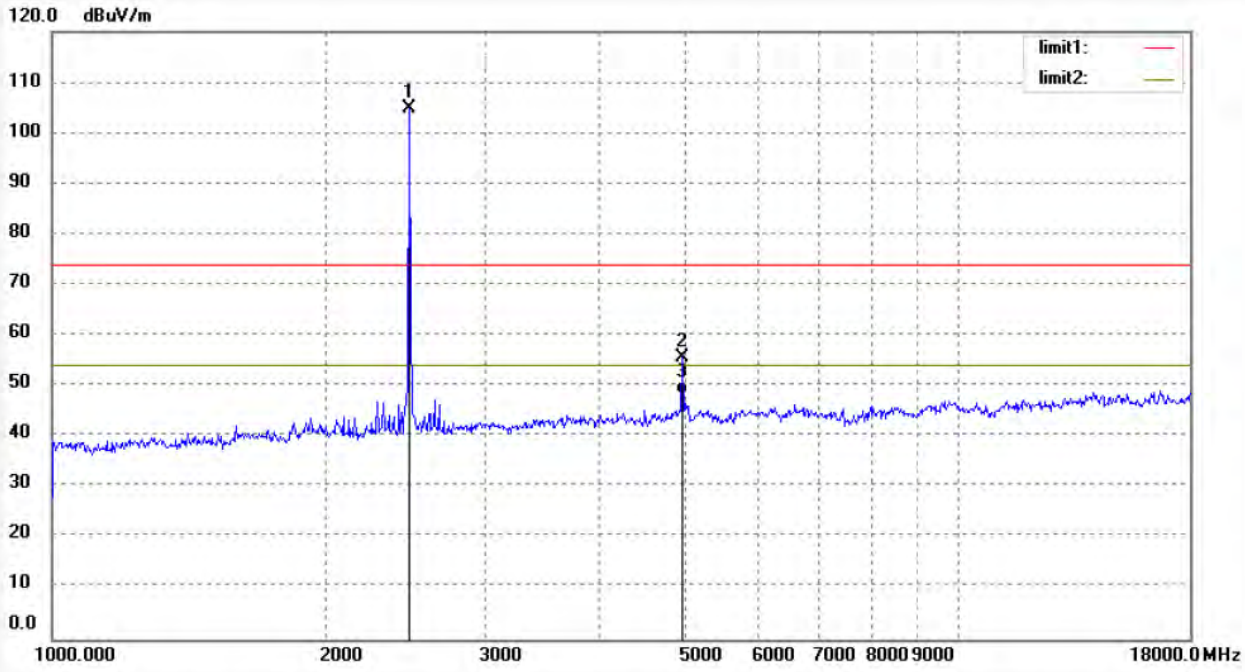
Job No.: star2016 #2599	Polarization: Horizontal
Standard: FCC PART 15C 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2018/07/03
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 17:04:33
EUT: Bluetooth Headset	Engineer Signature: star
Mode: TX 2480MHz (8DPSK)	Distance: 3m
Model: BT539i V2	
Manufacturer: Baizhenrong	

Note: Report No.: ATE20181147



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.310	103.63	1.09	104.72			peak			
2	4960.307	46.96	8.58	55.54	74.00	-18.46	peak			
3	4960.307	39.81	8.58	48.39	54.00	-5.61	AVG			

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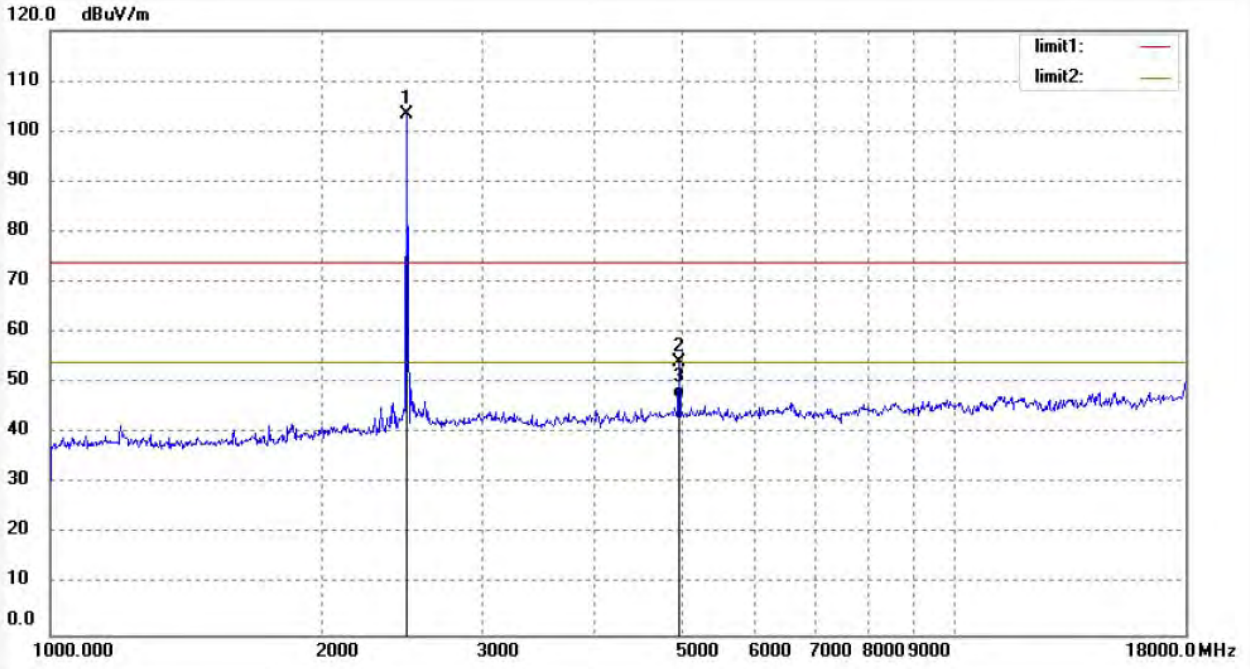
Fax:+86-0755-26503396

Job No.: star2016 #2600
Standard: FCC PART 15C 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Headset
Mode: TX 2480MHz (8DPSK)
Model: BT539i V2
Manufacturer: Baizhenrong

Polarization: Vertical
Power Source: DC 3.7V
Date: 2018/07/03
Time: 17:06:33
Engineer Signature: star
Distance: 3m

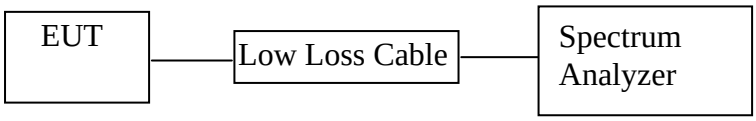
Note: Report No.: ATE20181147



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.310	102.28	1.09	103.37			peak			
2	4960.307	45.47	8.58	54.05	74.00	-19.95	peak			
3	4960.307	38.45	8.58	47.03	54.00	-6.97	AVG			

12.BAND EDGE COMPLIANCE TEST

12.1.Block Diagram of Test Setup



(EUT: Bluetooth Headset)

12.2.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).

12.3.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.

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

12.5.Test Procedure

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

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

12.5.3.The band edges was measured and recorded.

12.6.Test Result

Test Lab: Shielding room
Test Engineer: Star

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

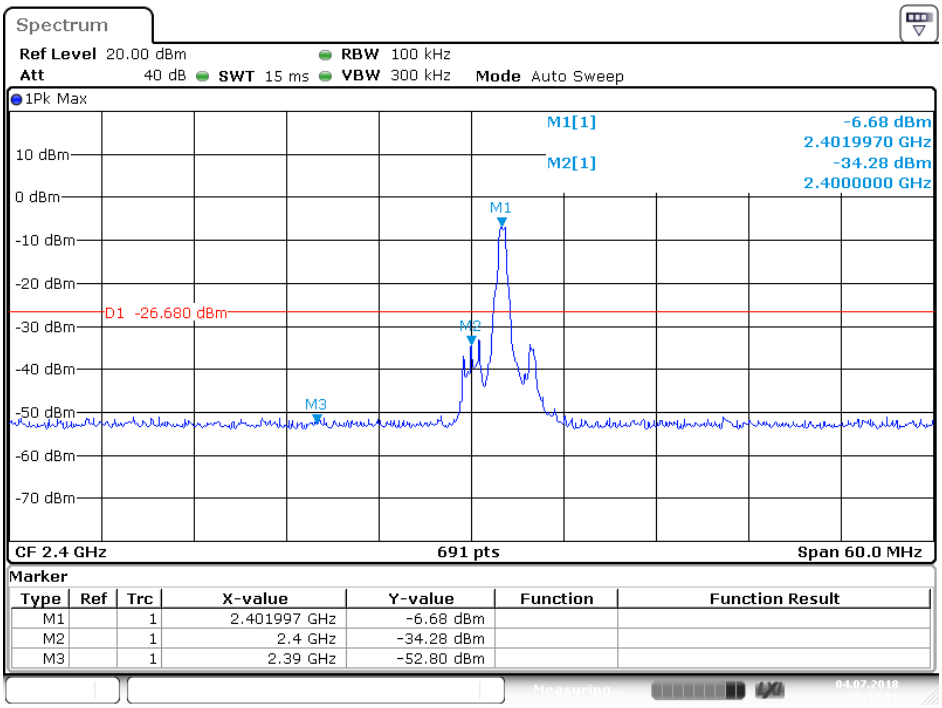
Conducted Band Edge Result

Non-hopping mode

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)	Result
GFSK Mode			
2400.00	27.60	> 20dBc	Pass
2483.50	45.68	> 20dBc	Pass
Π/4-DQPSK Mode			
2400.00	25.95	> 20dBc	Pass
2483.50	45.69	> 20dBc	Pass
8DPSK Mode			
2400.00	26.14	> 20dBc	Pass
2483.50	45.68	> 20dBc	Pass

The spectrum analyzer plots are attached as below.

GFSK Mode



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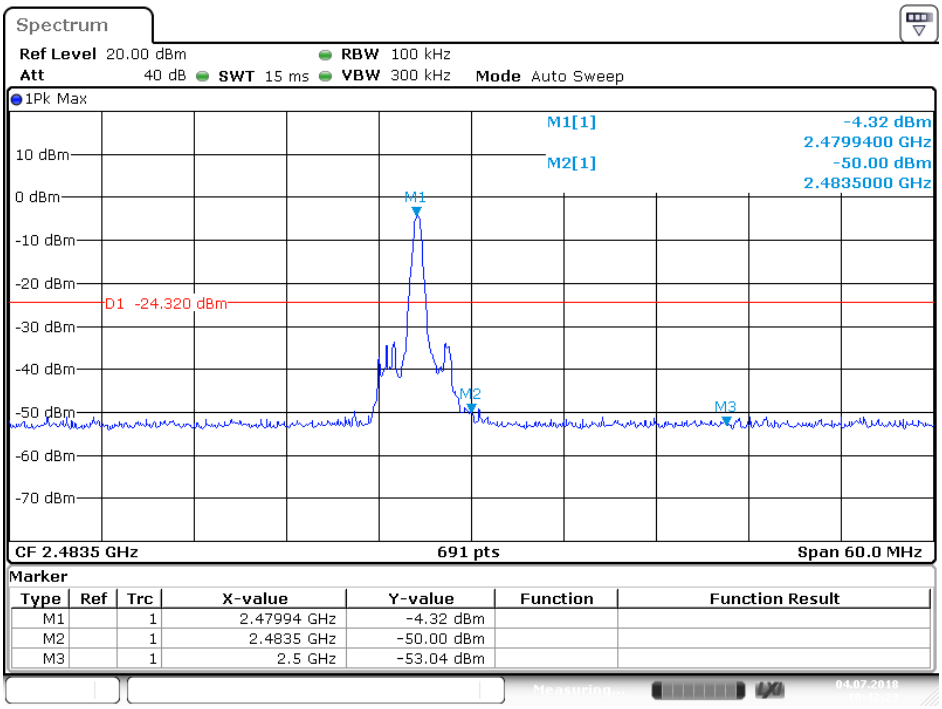
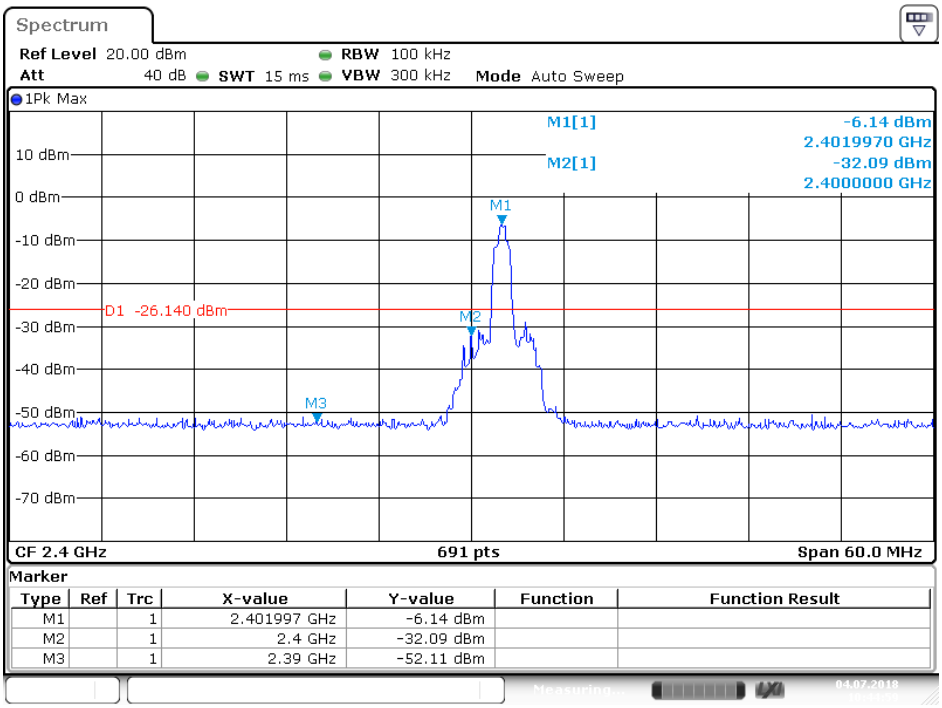


Date: 4.JUL.2018 10:42:23

Π/4-DQPSK Mode



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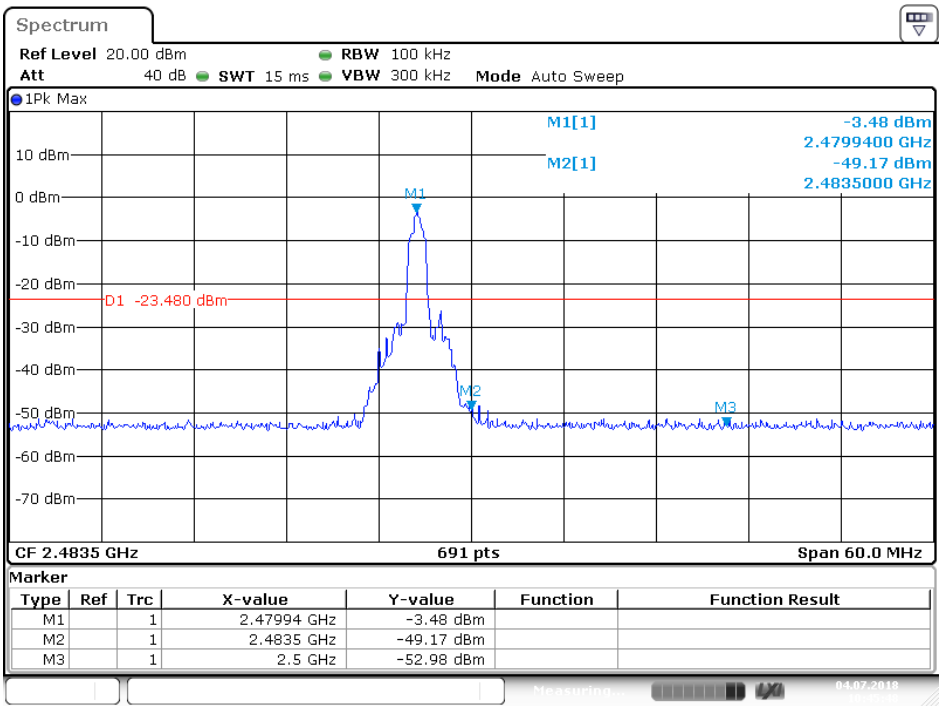
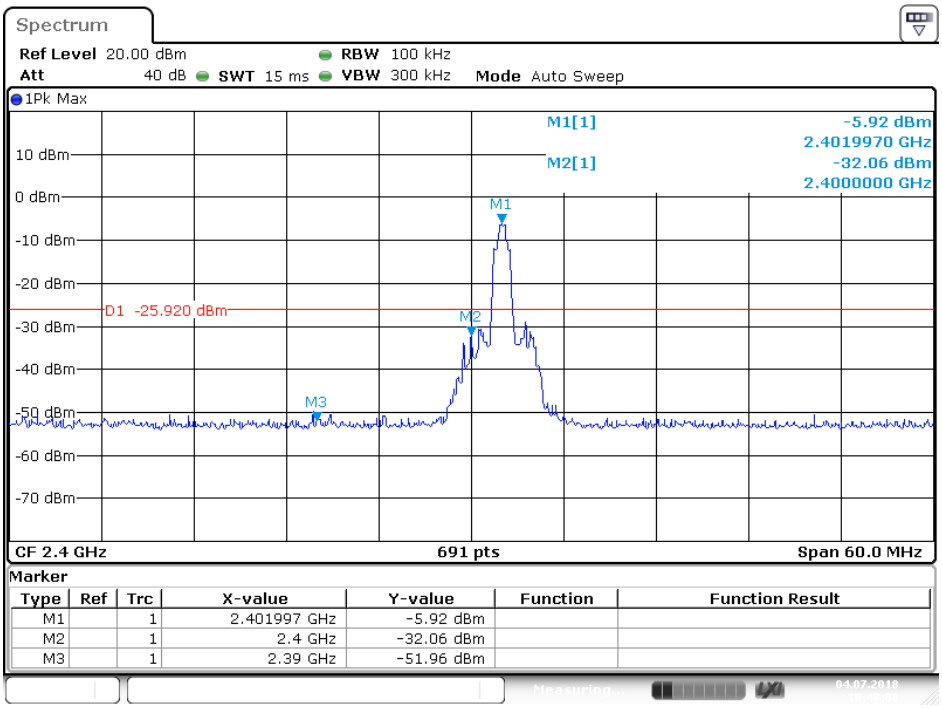
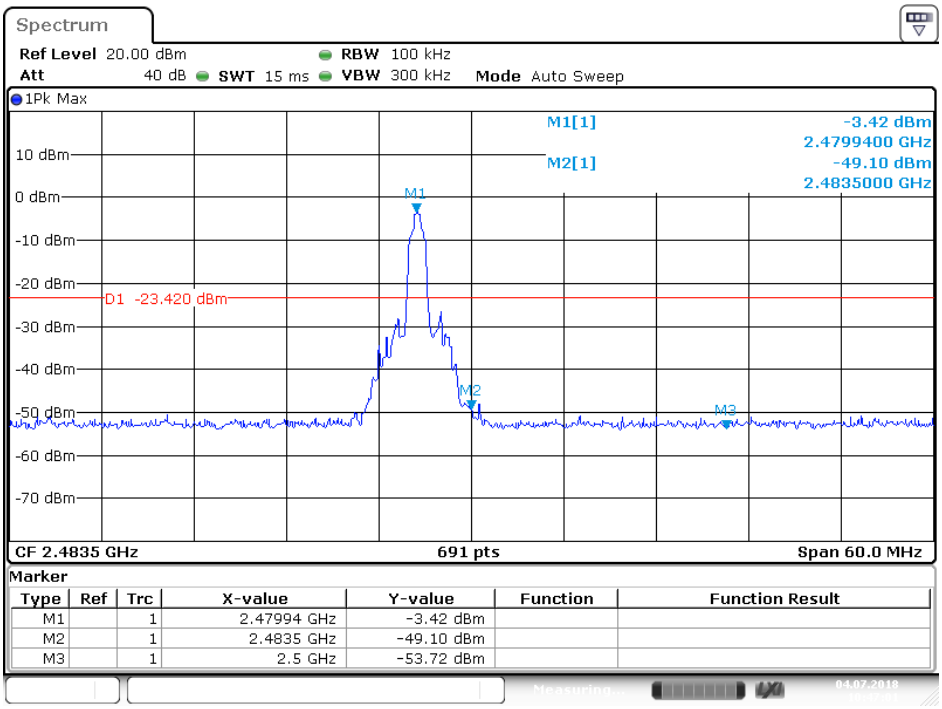


Date: 4.JUL.2018 10:45:48

8DPSK Mode



Date: 4.JUL.2018 10:48:08



Date: 4.JUL.2018 10:47:01

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. This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

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 (8DPSK mode) emissions are reported.

Test Lab: 3m Anechoic chamber
Test Engineer: Star

The spectrum analyzer plots are attached as below.

Non-hopping mode

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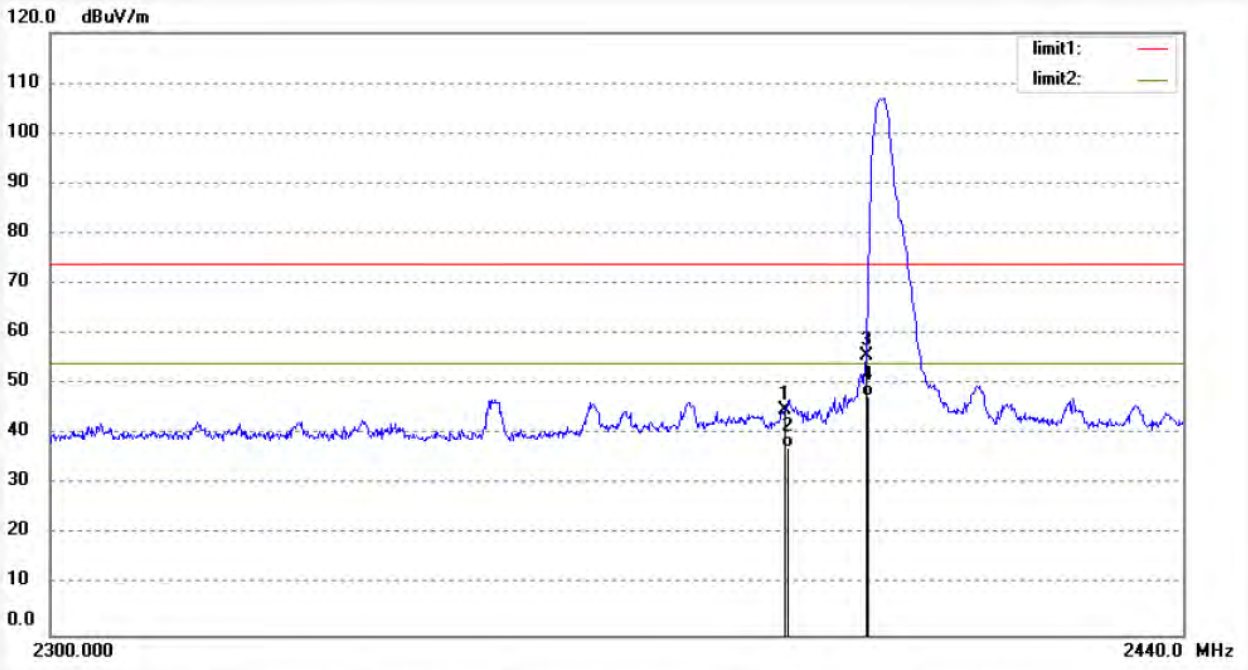
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: star2016 #2603	Polarization: Horizontal
Standard: FCC PART 15C 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2018/07/03
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 17:13:14
EUT: Bluetooth Headset	Engineer Signature: star
Mode: TX 2402MHz (8DPSK)	Distance: 3m
Model: BT539i V2	
Manufacturer: Baizhenrong	

Note: Report No.: ATE20181147



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	44.12	0.79	44.91	74.00	-29.09	peak			
2	2390.000	36.67	0.79	37.46	54.00	-16.54	AVG			
3	2400.000	54.70	0.88	55.58	74.00	-18.42	peak			
4	2400.000	46.81	0.88	47.69	54.00	-6.31	AVG			

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

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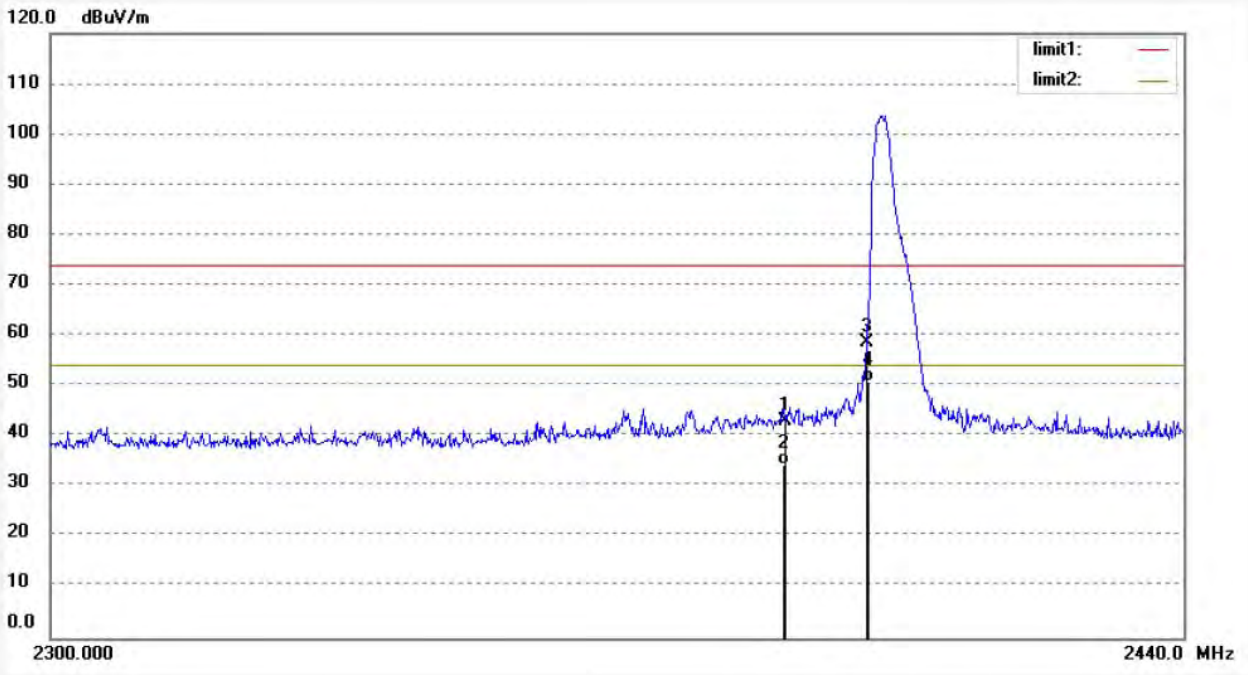
Job No.: star2016 #2604	Polarization: Vertical
Standard: FCC PART 15C 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2018/07/03
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 17:14:07
EUT: Bluetooth Headset	Engineer Signature: star
Mode: TX 2402MHz (8DPSK)	Distance: 3m
Model: BT539i V2	
Manufacturer: Baizhenrong	

Note: Report No.: ATE20181147



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	42.39	0.79	43.18	74.00	-30.82	peak			
2	2390.000	33.54	0.79	34.33	54.00	-19.67	AVG			
3	2400.000	57.76	0.88	58.64	74.00	-15.36	peak			
4	2400.000	50.00	0.88	50.88	54.00	-3.12	AVG			

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

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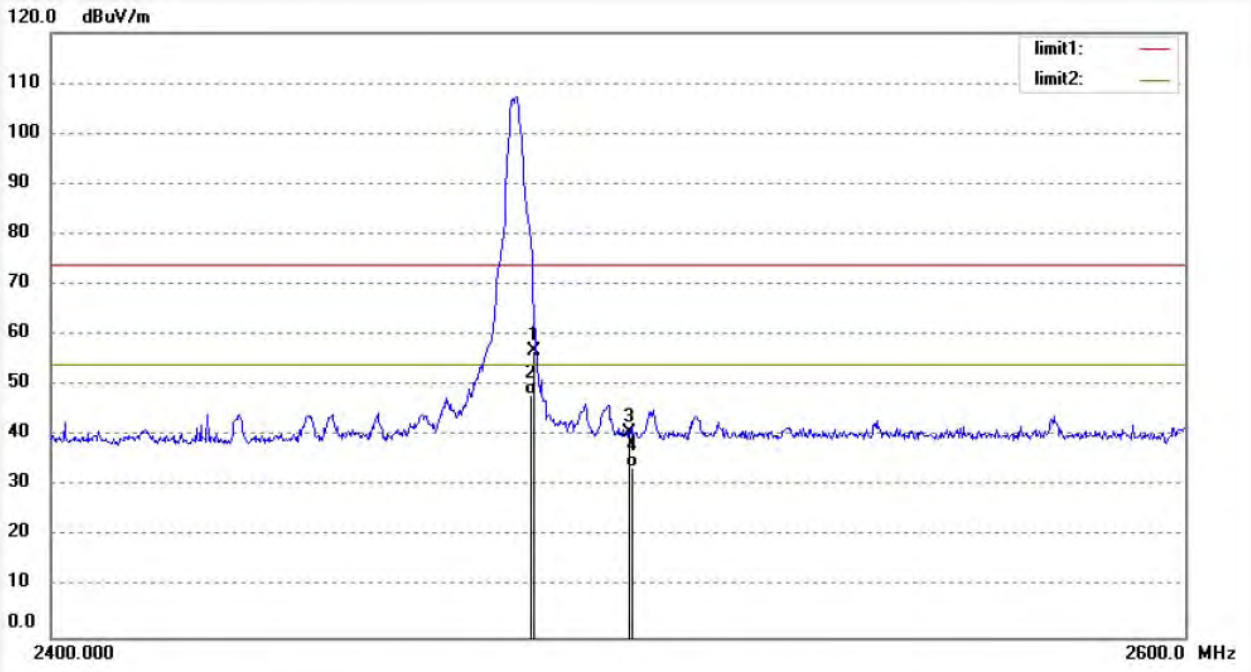
Job No.: star2016 #2602
Standard: FCC PART 15C 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Headset
Mode: TX 2480MHz (8DPSK)
Model: BT539i V2
Manufacturer: Baizhenrong

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2018/07/03
Time: 17:11:10
Engineer Signature: star
Distance: 3m

Note: Report No.: ATE20181147



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	55.77	1.10	56.87	74.00	-17.13	peak			
2	2483.500	47.14	1.10	48.24	54.00	-5.76	AVG			
3	2500.000	39.58	1.10	40.68	74.00	-33.32	peak			
4	2500.000	32.63	1.10	33.73	54.00	-20.27	AVG			

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

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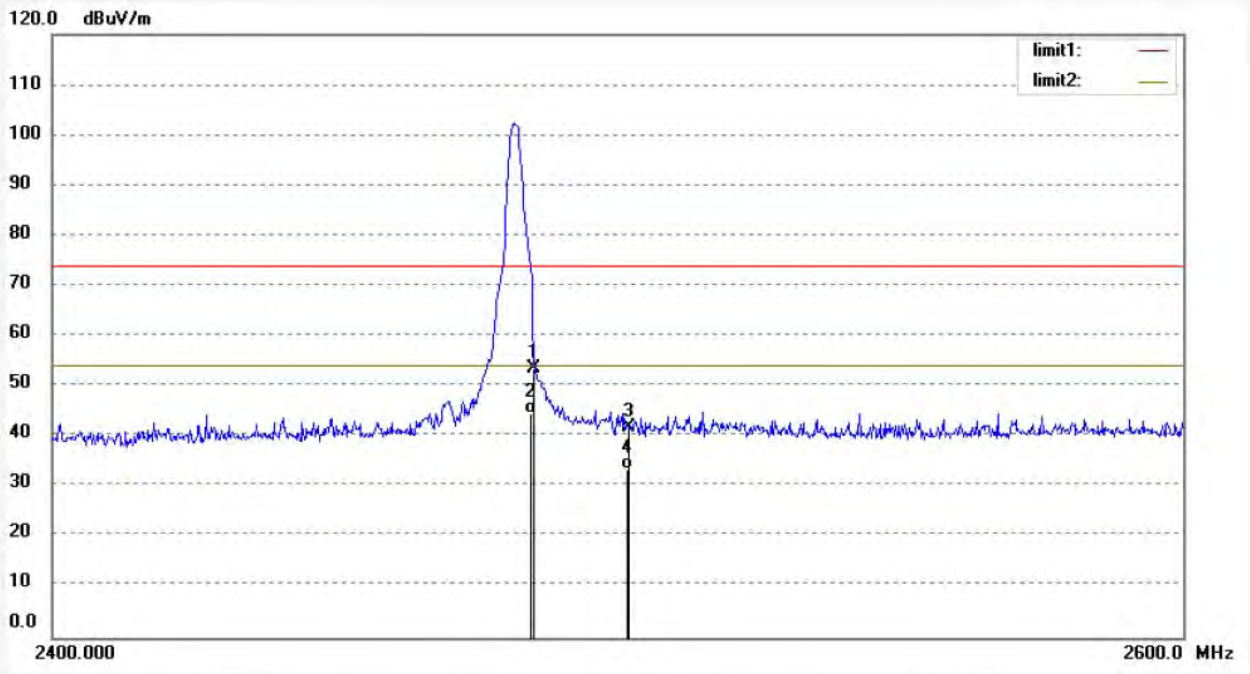
Job No.: star2016 #2601
Standard: FCC PART 15C 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Headset
Mode: TX 2480MHz (8DPSK)
Model: BT539i V2
Manufacturer: Baizhenrong

Polarization: Vertical
Power Source: DC 3.7V
Date: 2018/07/03
Time: 17:10:06
Engineer Signature: star
Distance: 3m

Note: Report No.: ATE20181147



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	52.34	1.10	53.44	74.00	-20.56	peak			
2	2483.500	43.58	1.10	44.68	54.00	-9.32	AVG			
3	2500.000	40.84	1.10	41.94	74.00	-32.06	peak			
4	2500.000	32.44	1.10	33.54	54.00	-20.46	AVG			

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

Hopping mode

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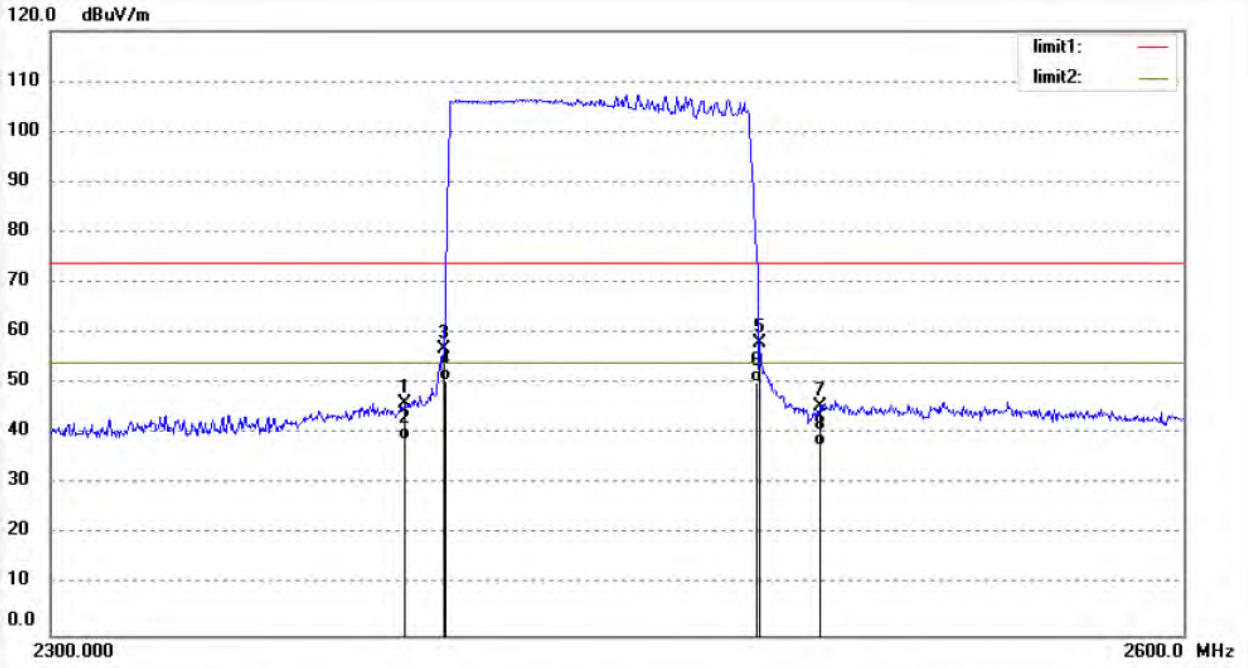
Job No.: star2016 #2606	Polarization: Horizontal
Standard: FCC PART 15C 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2018/07/03
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 17:23:42
EUT: Bluetooth Headset	Engineer Signature: star
Mode: Hopping (8DPSK)	Distance: 3m
Model: BT539i V2	
Manufacturer: Baizhenrong	

Note: Report No.: ATE20181147



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	45.39	0.79	46.18	74.00	-27.82	peak			
2	2390.000	38.01	0.79	38.80	54.00	-15.20	AVG			
3	2400.000	56.01	0.88	56.89	74.00	-17.11	peak			
4	2400.000	49.69	0.88	50.57	54.00	-3.43	AVG			
5	2483.500	56.92	1.10	58.02	74.00	-15.98	peak			
6	2483.500	49.10	1.10	50.20	54.00	-3.80	AVG			
7	2500.000	44.36	1.10	45.46	74.00	-28.54	peak			
8	2500.000	36.70	1.10	37.80	54.00	-16.20	AVG			

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

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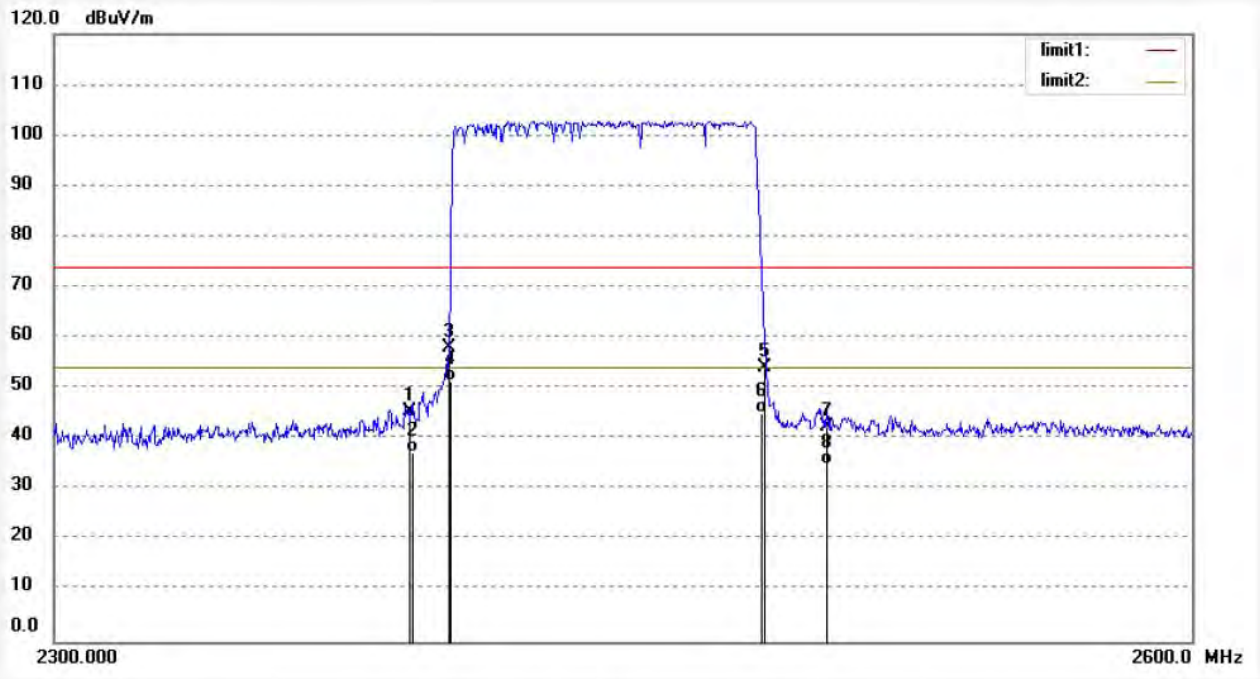
Fax:+86-0755-26503396

Job No.: star2016 #2605
Standard: FCC PART 15C 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Headset
Mode: Hopping (8DPSK)
Model: BT539i V2
Manufacturer: Baizhenrong

Polarization: Vertical
Power Source: DC 3.7V
Date: 2018/07/03
Time: 17:18:42
Engineer Signature: star
Distance: 3m

Note: Report No.: ATE20181147



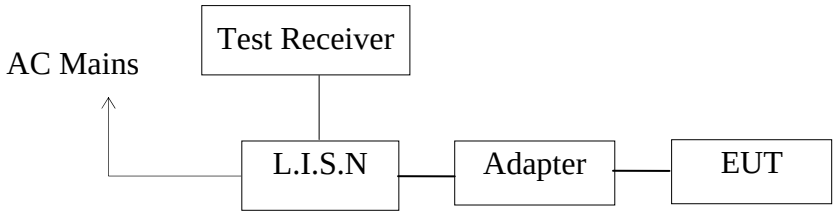
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	44.77	0.79	45.56	74.00	-28.44	peak			
2	2390.000	36.58	0.79	37.37	54.00	-16.63	AVG			
3	2400.000	57.03	0.88	57.91	74.00	-16.09	peak			
4	2400.000	50.61	0.88	51.49	54.00	-2.51	AVG			
5	2483.500	52.99	1.10	54.09	74.00	-19.91	peak			
6	2483.500	44.16	1.10	45.26	54.00	-8.74	AVG			
7	2500.000	41.39	1.10	42.49	74.00	-31.51	peak			
8	2500.000	33.71	1.10	34.81	54.00	-19.19	AVG			

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

13. AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

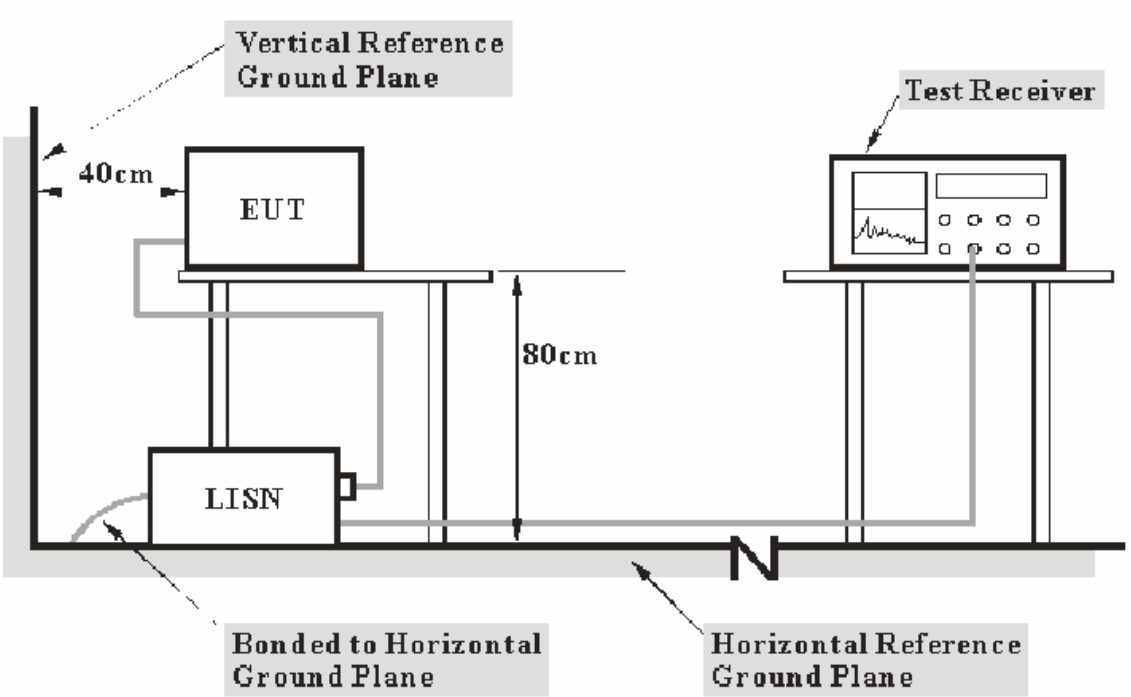
13.1. Block Diagram of Test Setup

13.1.1. Block diagram of connection between the EUT and simulators



(EUT: Bluetooth Headset)

13.1.2. 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.

13.2.Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit dB(μV)	
	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.		

13.3.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.

13.4.Operating Condition of EUT

13.4.1.Setup the EUT and simulator as shown as Section 13.1.

13.4.2.Turn on the power of all equipment.

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

13.5.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.

13.6.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	10.5	51.1	34.2	56.0	46.0	4.9	11.8	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)

13.7.Power Line Conducted Emission Measurement Results

PASS.
Test Lab: Shielding room
Test Engineer: Star

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

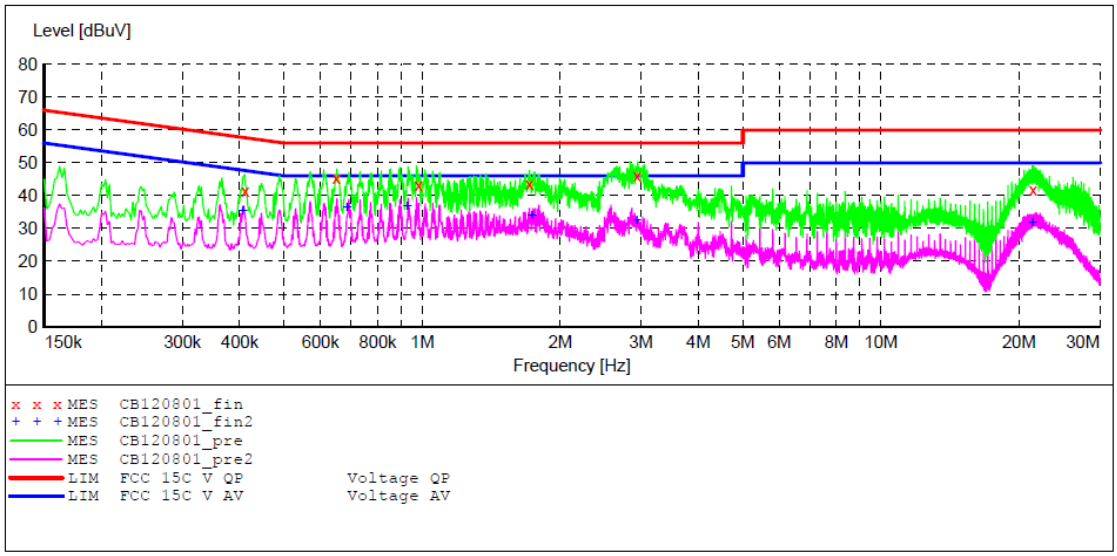
CONDUCTED EMISSION STANDARD FCC PART 15C

```
EUT:                  Bluetooth Headset    M/N:BT539i V2
Manufacturer:         Baizhenrong
Operating Condition:  BT Communication
Test Site:            1#Shielding Room
Operator:             Star
Test Specification:   L  240V/60Hz
Comment:              Report No.:ATE20181147
Start of Test:        2018-7-4 / 9:18:13
```

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

Short Description: _SUB_STD_VTERM2 1.70

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



MEASUREMENT RESULT: "CB120801_fin"

2018-7-4 9:21

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.411000	41.50	11.0	58	16.1	QP	L1	GND
0.649500	45.20	11.0	56	10.8	QP	L1	GND
0.982500	43.10	11.1	56	12.9	QP	L1	GND
1.711500	43.70	11.2	56	12.3	QP	L1	GND
2.940000	45.90	11.3	56	10.1	QP	L1	GND
21.466500	41.90	11.7	60	18.1	QP	L1	GND

MEASUREMENT RESULT: "CB120801_fin2"

2018-7-4 9:21

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.406500	35.50	11.0	48	12.2	AV	L1	GND
0.685500	36.60	11.1	46	9.4	AV	L1	GND
0.928500	36.70	11.1	46	9.3	AV	L1	GND
1.734000	33.80	11.2	46	12.2	AV	L1	GND
2.935500	32.50	11.3	46	13.5	AV	L1	GND
21.390000	31.80	11.7	50	18.2	AV	L1	GND

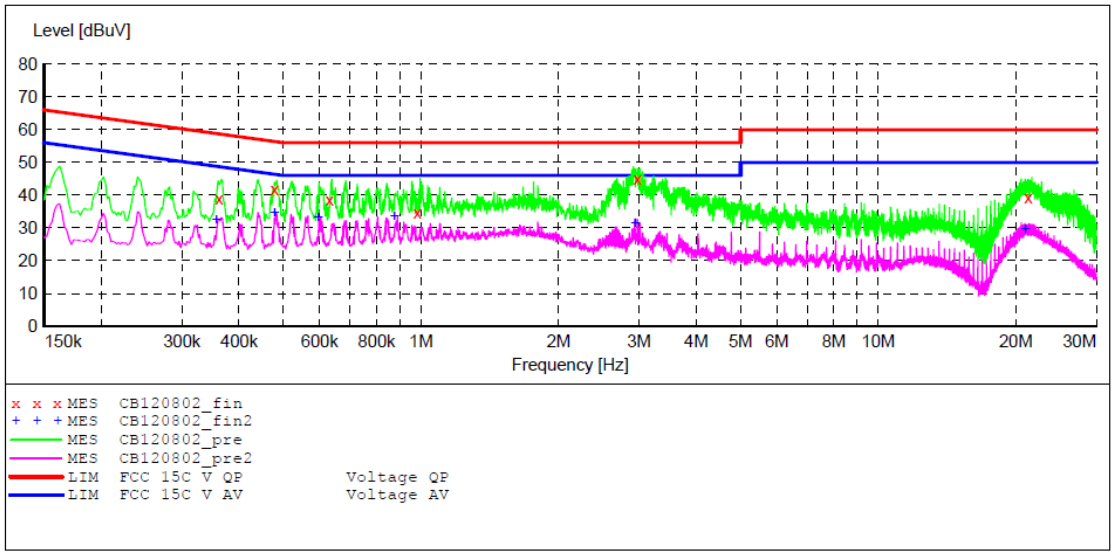
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15C

```
EUT:                  Bluetooth Headset    M/N:BT539i V2
Manufacturer:         Baizhenrong
Operating Condition:  BT Communication
Test Site:            1#Shielding Room
Operator:             Star
Test Specification:   N  240V/60Hz
Comment:              Report No.:ATE20181147
Start of Test:        2018-7-4 / 9:22:20
```

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

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



MEASUREMENT RESULT: "CB120802_fin"

2018-7-4 9:25

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.361500	38.80	10.9	59	19.9	QP	N	GND
0.478500	41.70	11.0	56	14.7	QP	N	GND
0.631500	38.40	11.0	56	17.6	QP	N	GND
0.982500	34.60	11.1	56	21.4	QP	N	GND
2.976000	45.00	11.3	56	11.0	QP	N	GND
21.300000	39.20	11.7	60	20.8	QP	N	GND

MEASUREMENT RESULT: "CB120802_fin2"

2018-7-4 9:25

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.357000	32.50	10.9	49	16.3	AV	N	GND
0.478500	34.60	11.0	46	11.8	AV	N	GND
0.595500	33.20	11.0	46	12.8	AV	N	GND
0.874500	33.50	11.1	46	12.5	AV	N	GND
2.944500	31.50	11.3	46	14.5	AV	N	GND
20.980500	29.80	11.7	50	20.2	AV	N	GND

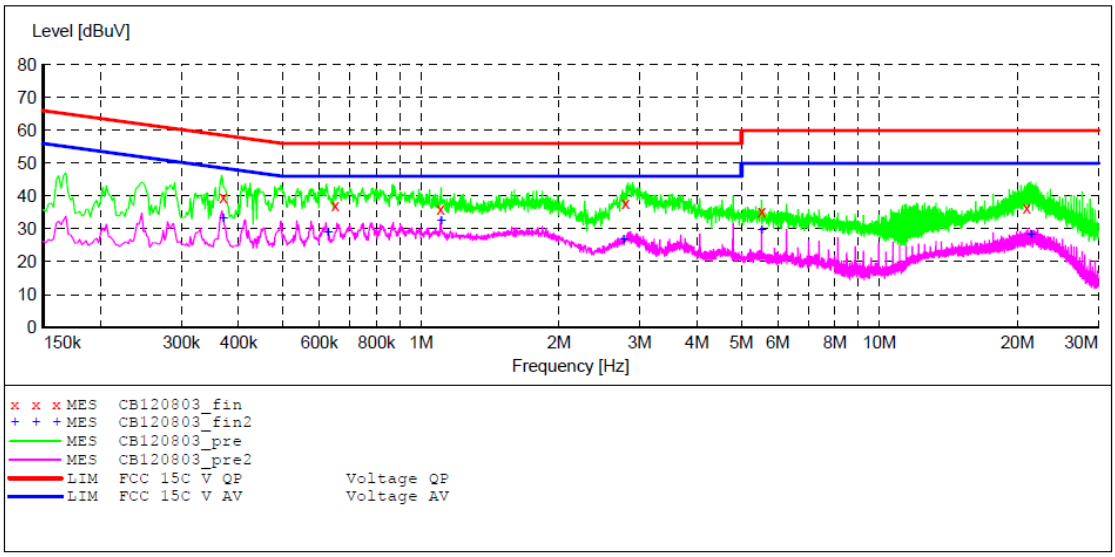
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15C

```
EUT:                  Bluetooth Headset    M/N:BT539i V2
Manufacturer:         Baizhenrong
Operating Condition:  BT Communication
Test Site:            1#Shielding Room
Operator:             Star
Test Specification:   N  120V/60Hz
Comment:              Report No.:ATE20181147
Start of Test:        2018-7-4 / 9:26:23
```

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

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



MEASUREMENT RESULT: "CB120803_fin"

2018-7-4 9:30

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.370500	39.70	10.9	59	18.8	QP	N	GND
0.649500	37.30	11.0	56	18.7	QP	N	GND
1.104000	35.90	11.2	56	20.1	QP	N	GND
2.796000	37.80	11.3	56	18.2	QP	N	GND
5.541000	35.40	11.5	60	24.6	QP	N	GND
20.962500	36.50	11.7	60	23.5	QP	N	GND

MEASUREMENT RESULT: "CB120803_fin2"

2018-7-4 9:30

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.370500	33.20	10.9	49	15.3	AV	N	GND
0.627000	29.10	11.0	46	16.9	AV	N	GND
1.108500	32.60	11.2	46	13.4	AV	N	GND
2.764500	26.80	11.3	46	19.2	AV	N	GND
5.541000	29.50	11.5	50	20.5	AV	N	GND
21.417000	28.30	11.7	50	21.7	AV	N	GND

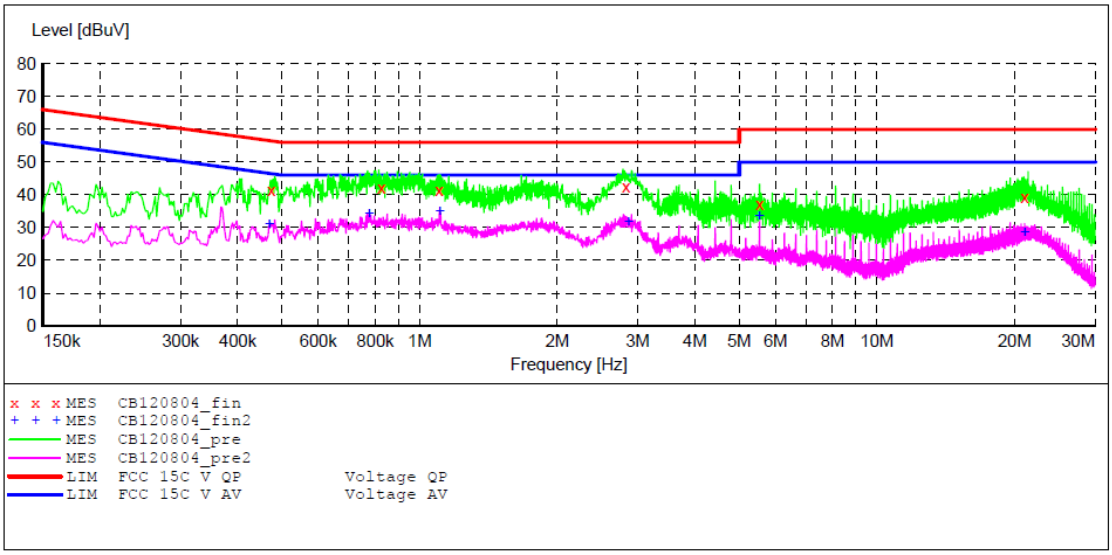
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15C

```
EUT:                  Bluetooth Headset    M/N:BT539i V2
Manufacturer:         Baizhenrong
Operating Condition:  BT Communication
Test Site:            1#Shielding Room
Operator:             Star
Test Specification:   L  120V/60Hz
Comment:              Report No.:ATE20181147
Start of Test:        2018-7-4 / 9:31:06
```

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

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



MEASUREMENT RESULT: "CB120804_fin"

2018-7-4 9:34

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.474000	41.30	11.0	56	15.1	QP	L1	GND
0.825000	42.00	11.1	56	14.0	QP	L1	GND
1.104000	41.30	11.2	56	14.7	QP	L1	GND
2.827500	42.50	11.3	56	13.5	QP	L1	GND
5.541000	37.10	11.5	60	22.9	QP	L1	GND
21.048000	39.20	11.7	60	20.8	QP	L1	GND

MEASUREMENT RESULT: "CB120804_fin2"

2018-7-4 9:34

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.469500	31.00	11.0	47	15.5	AV	L1	GND
0.775500	34.20	11.1	46	11.8	AV	L1	GND
1.108500	35.00	11.2	46	11.0	AV	L1	GND
2.863500	31.90	11.3	46	14.1	AV	L1	GND
5.536500	33.60	11.5	50	16.4	AV	L1	GND
21.052500	28.60	11.7	50	21.4	AV	L1	GND

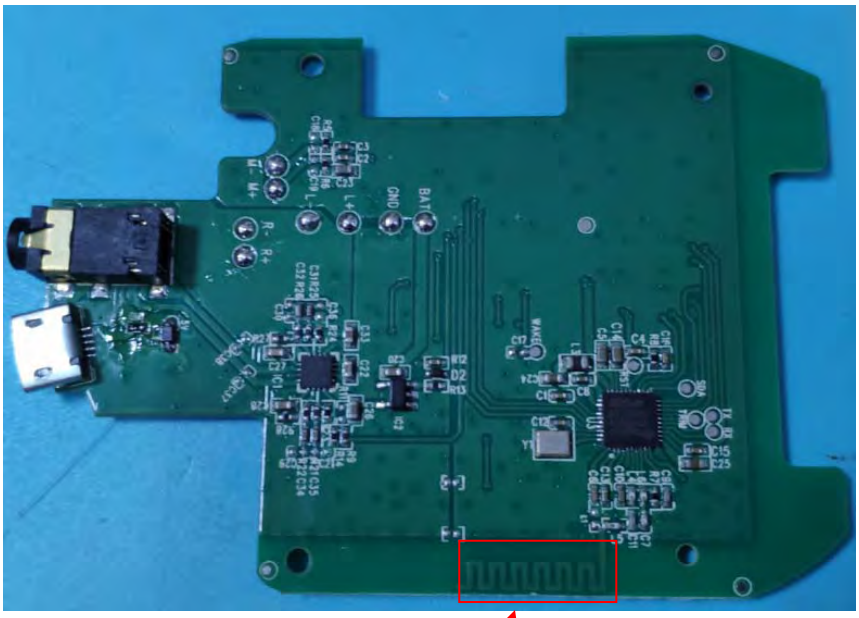
14. ANTENNA REQUIREMENT

14.1. 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.

14.2. Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Max Antenna gain of EUT is 0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



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