

APPLICATION CERTIFICATION FCC Part 15C

On Behalf of
Quanta Semi Co., Ltd

Bluetooth True Wireless Earbuds

Model No.: AHS75-ANC, AHS75

FCC ID: 2AVWS-AHS75ANC

Prepared for : Quanta Semi Co., Ltd
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Date of Test : February 21-March 9, 2020
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Test Report Certification

Applicant : Quanta Semi Co., Ltd
Manufacturer : Xiameng Acousycom Electronics Co., Ltd.
EUT : Bluetooth True Wireless Earbuds
Model No. : AHS75-ANC, AHS75
Trade name : 20Decebel

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 : February 21-March 9, 2020
Date of Report : March 10, 2020

Prepared by :


(Bob Wang, Engineer)

Approved & Authorized Signer :


(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Model Number	:	AHS75-ANC, AHS75
Bluetooth version	:	V5.0
Frequency Range	:	2402MHz-2480MHz
Number of Channels	:	79
Antenna Gain(Max)	:	0dBi
Antenna type	:	Integral Antenna
Modulation mode	:	GFSK, $\pi/4$ DQPSK, 8DPSK
Power Supply	:	DC 3.7V (Powered by Lithium battery) or DC 5.0V (Powered by USB port)
Applicant	:	Quanta Semi Co., Ltd
Address	:	Building C, No.888 West Huanhu Road, Nanhui New Town, Pudong New District, Shanghai, China
Manufacturer	:	Xiameng Acousycom Electronics Co., Ltd.
Address	:	No.268-269, Tong'an Park, Tong'an Industrial Zone, Xiamen

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

Radiated emission expanded uncertainty (9kHz-30MHz)	:	U=2.66dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	:	U=4.28dB, k=2
Radiated emission expanded uncertainty (1G-18GHz)	:	U=4.98dB, k=2
Radiated emission expanded uncertainty (18G-26.5GHz)	:	U=5.06dB, k=2
Conduction Emission Expanded Uncertainty (Mains ports, 9kHz-30MHz)	:	U=2.72dB, k=2
Conduction Emission Expanded Uncertainty (Telecommunication ports, 150kHz-30MHz)	:	U=2.94dB, k=2
Power disturbance Expanded Uncertainty	:	U=2.92dB, k=2
Harmonic current expanded uncertainty	:	U=0.512%, 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. 04, 2020	1 Year
EMI Test Receiver	Rohde& Schwarz	ESR	101817	Jan. 04, 2020	1 Year
Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	Jan. 04, 2020	1 Year
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan. 04, 2020	1 Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 04, 2020	1 Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 04, 2020	1 Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 04, 2020	1 Year
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 04, 2020	1 Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 04, 2020	1 Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18G-10S S	N/A	Jan. 04, 2020	1 Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2485-2 375/2510-60/11SS	N/A	Jan. 04, 2020	1 Year
RF COAXIAL CABLE	SUHNER	N-5m(Frequency range:9KHz-26.5GHz)	NO.3	Jan. 04, 2020	1 Year
RF COAXIAL CABLE	SUHNER	N-5m(Frequency range:9KHz-26.5GHz)	NO.4	Jan. 04, 2020	1 Year
RF COAXIAL CABLE	SUHNER	N-1m(Frequency range:9KHz-26.5GHz)	NO.5	Jan. 04, 2020	1 Year
RF COAXIAL CABLE	SUHNER	N-1m(Frequency range:9KHz-26.5GHz)	NO.6	Jan. 04, 2020	1 Year
Temporary antenna connector	NTGS	14AE	N/A	Jan. 21, 2020	N/A

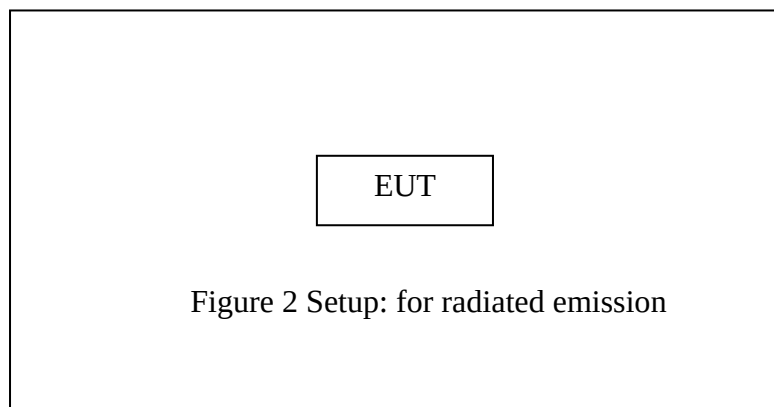
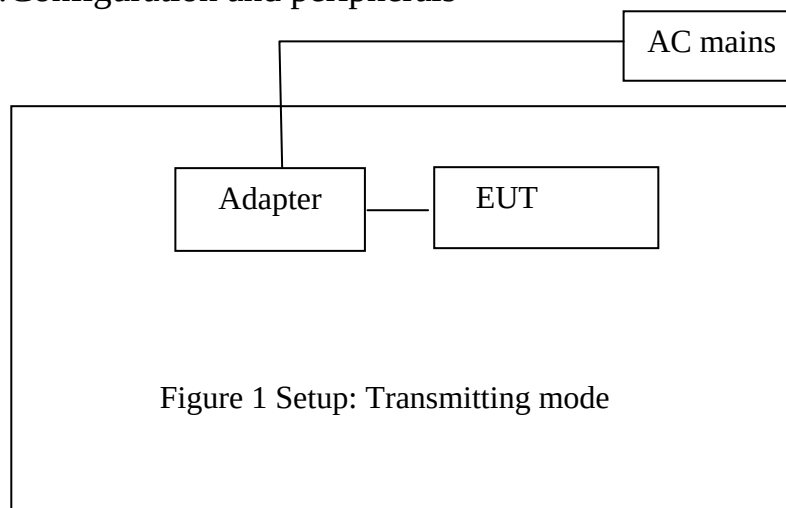
Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

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

3.2.Configuration and peripherals

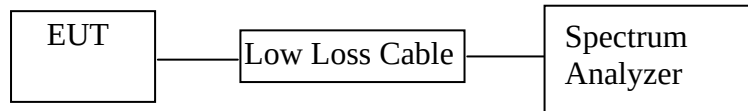


4. TEST PROCEDURES AND RESULTS

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 Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. 20DB BANDWIDTH TEST

5.1. Block Diagram of Test Setup



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 30 kHz and VBW to 100 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

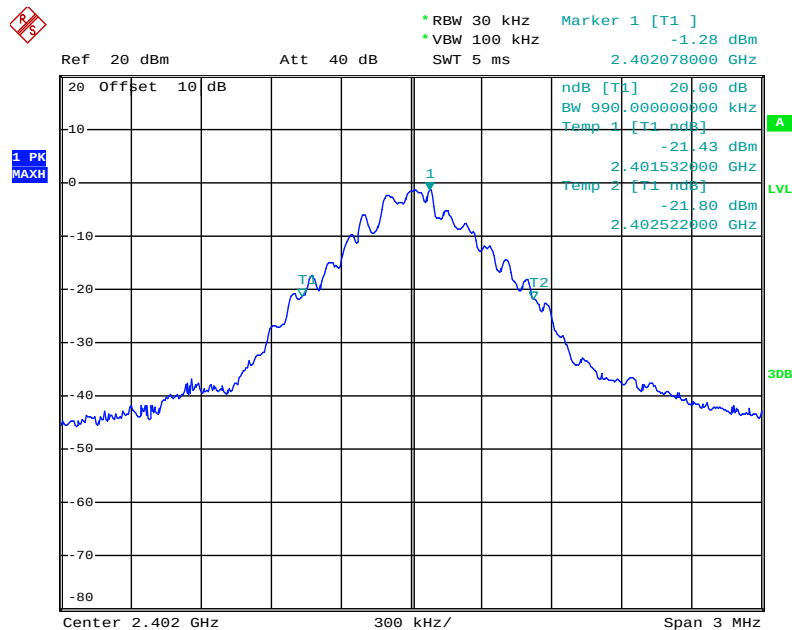
Test Lab: Shielding room

Channel	Frequency (MHz)	GFSK 20dB Bandwidth (MHz)	$\Pi/4$ -DQPSK 20dB Bandwidth (MHz)	8DPSK 20dB Bandwidth (MHz)	Result
Low	2402	0.990	1.356	1.344	Pass
Middle	2441	0.978	1.362	1.350	Pass
High	2480	0.978	1.362	1.350	Pass

The spectrum analyzer plots are attached as below.

GFSK Mode

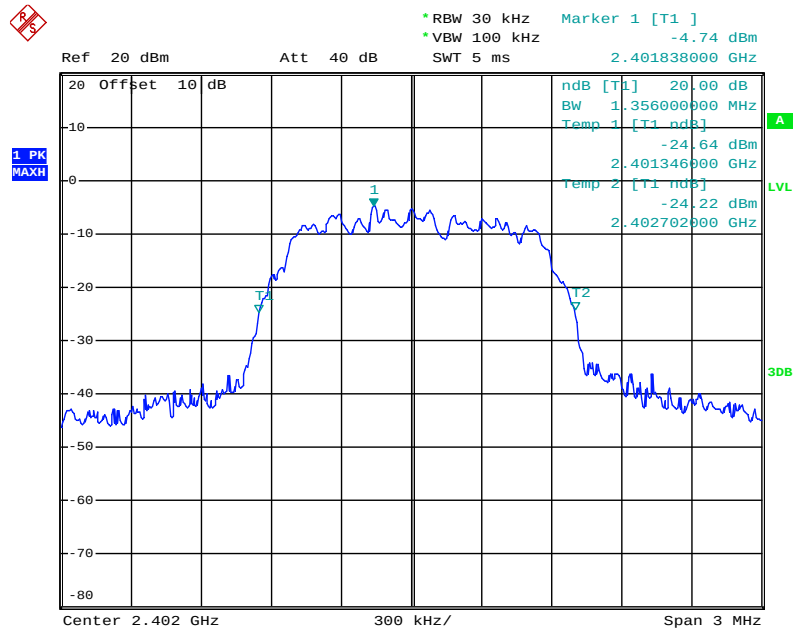
Low channel



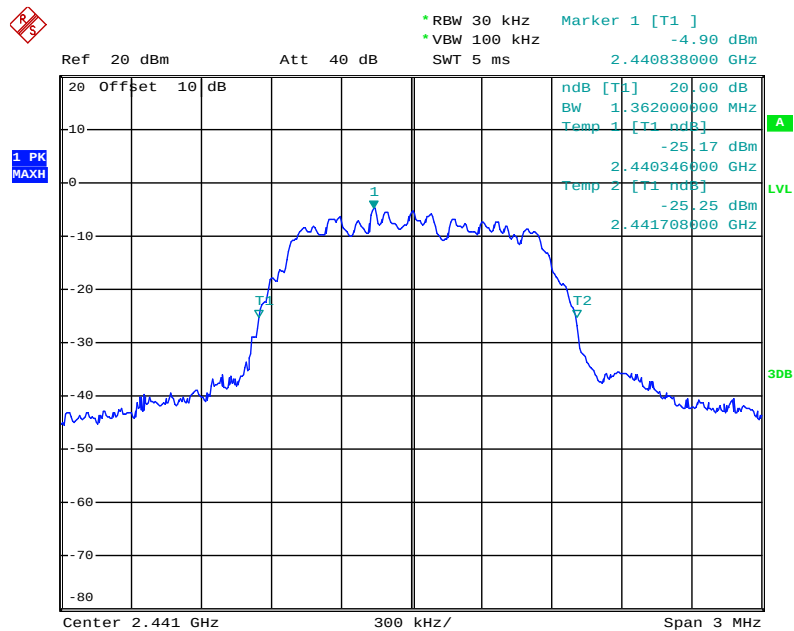


Π/4-DQPSK Mode

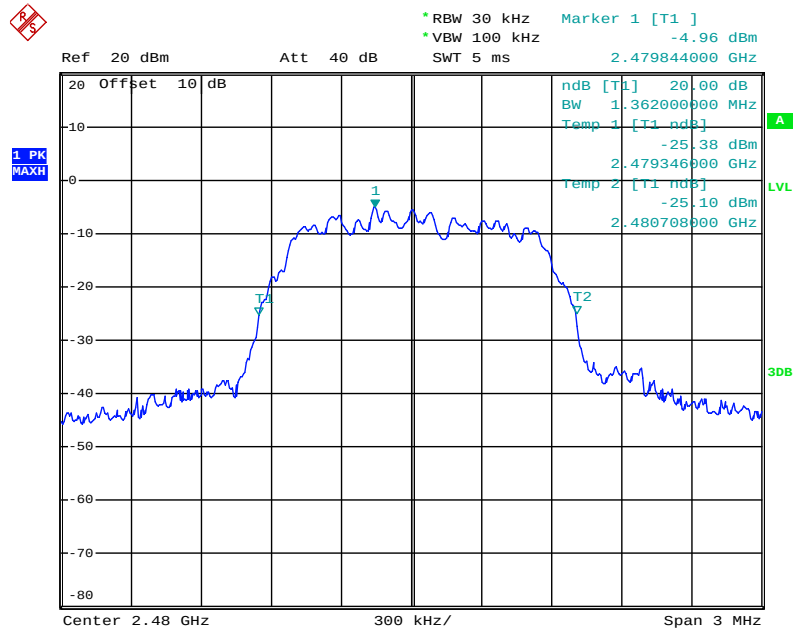
Low channel



Middle channel

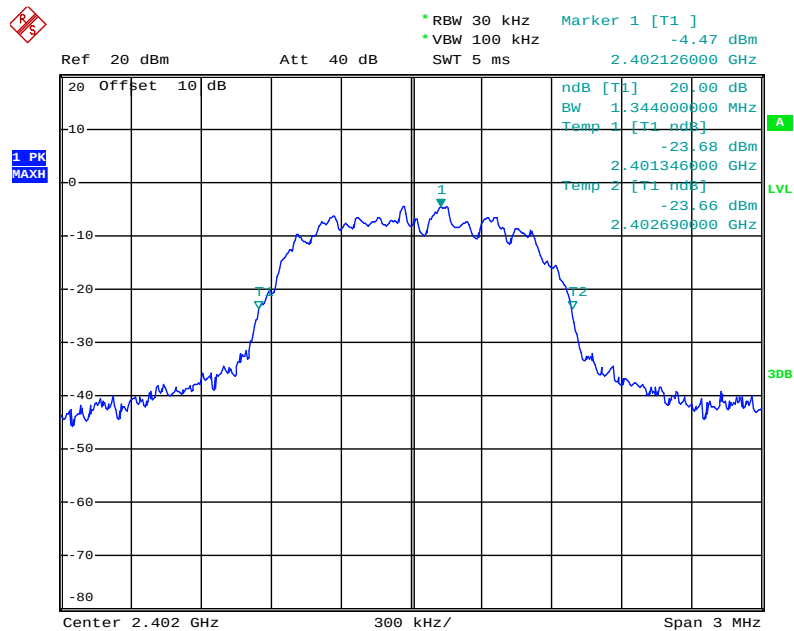


High channel

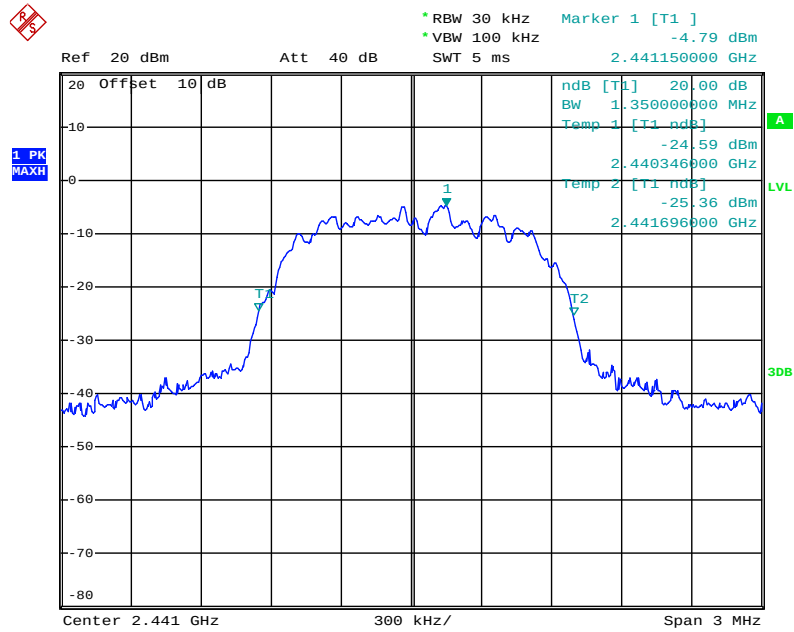


8DPSK Mode

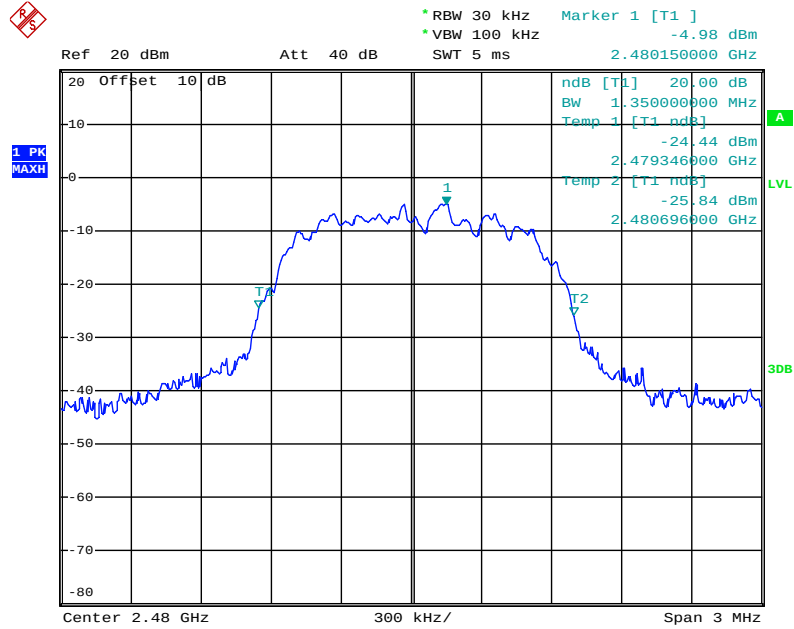
Low channel



Middle channel

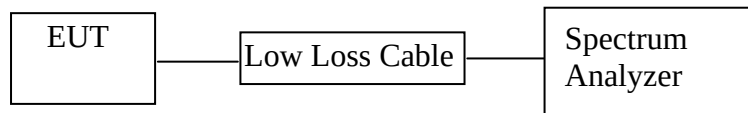


High channel



6. CARRIER FREQUENCY SEPARATION TEST

6.1. Block Diagram of Test Setup



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 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.

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 3 MHz.

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

6.5.4. Measurement the channel separation

6.6. Test Result

Test Lab: Shielding room

GFSK

Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.080	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

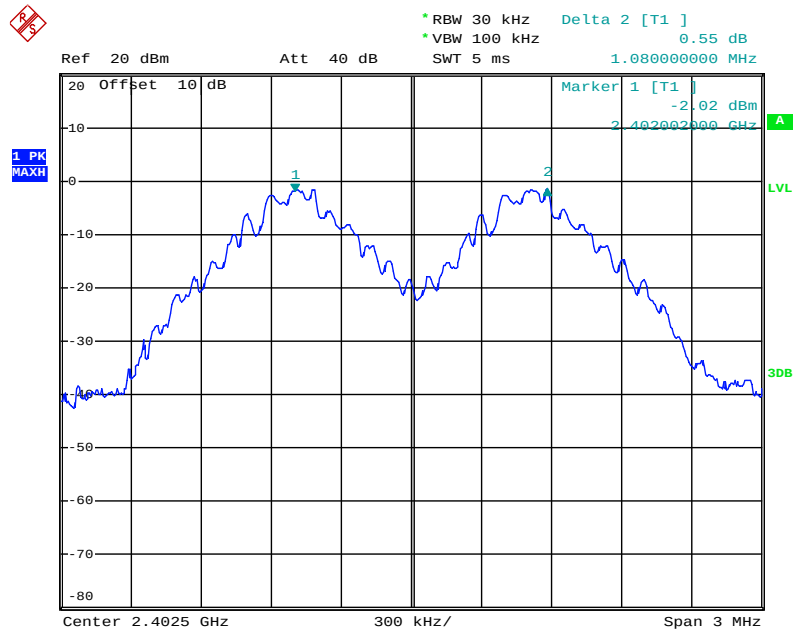
Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.002	25KHz or 2/3*20dB bandwidth	Pass
	2403			
Middle	2440	1.008	25KHz or 2/3*20dB bandwidth	Pass
	2441			
High	2479	0.996	25KHz or 2/3*20dB bandwidth	Pass
	2480			

8DPSK

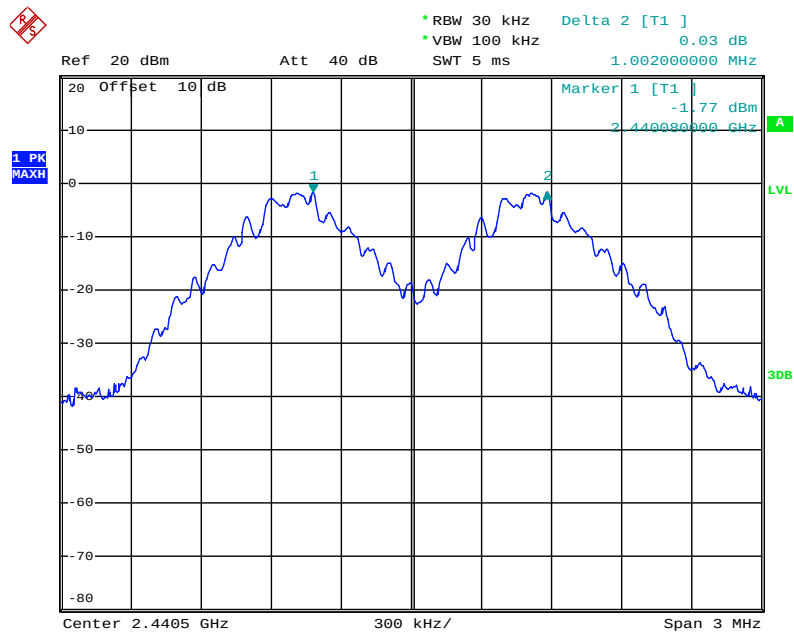
Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.002	25KHz or 2/3*20dB bandwidth	Pass
	2403			
Middle	2440	1.026	25KHz or 2/3*20dB bandwidth	Pass
	2441			
High	2479	0.996	25KHz or 2/3*20dB bandwidth	Pass
	2480			

GFSK Mode

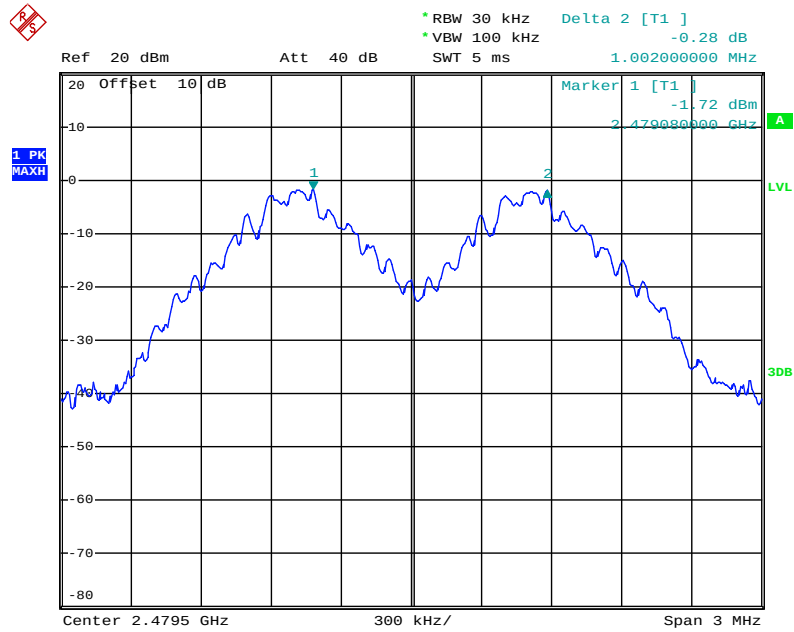
Low channel



Middle channel

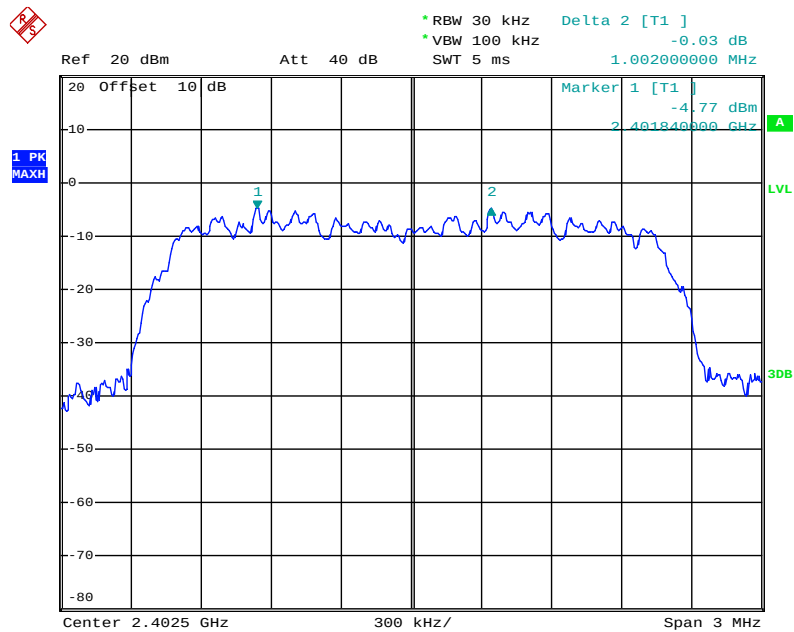


High channel

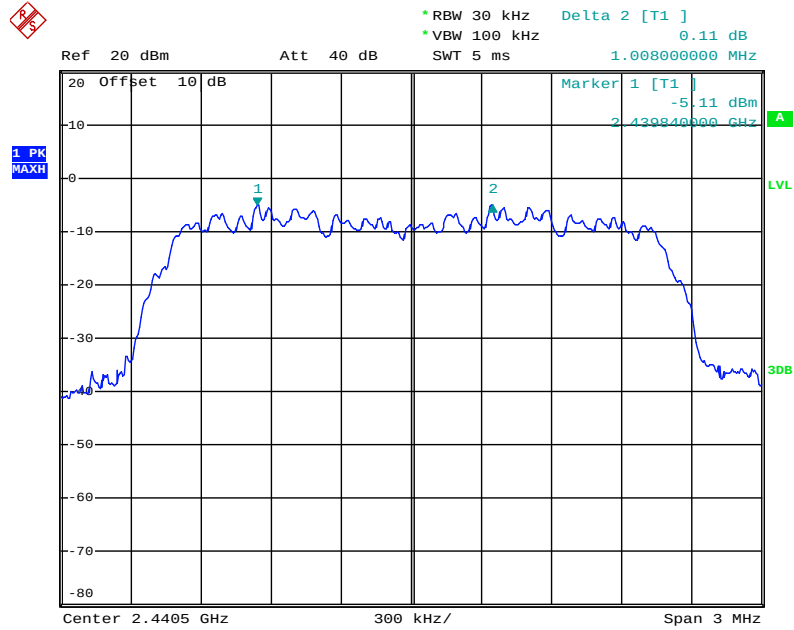


Π/4-DQPSK Mode

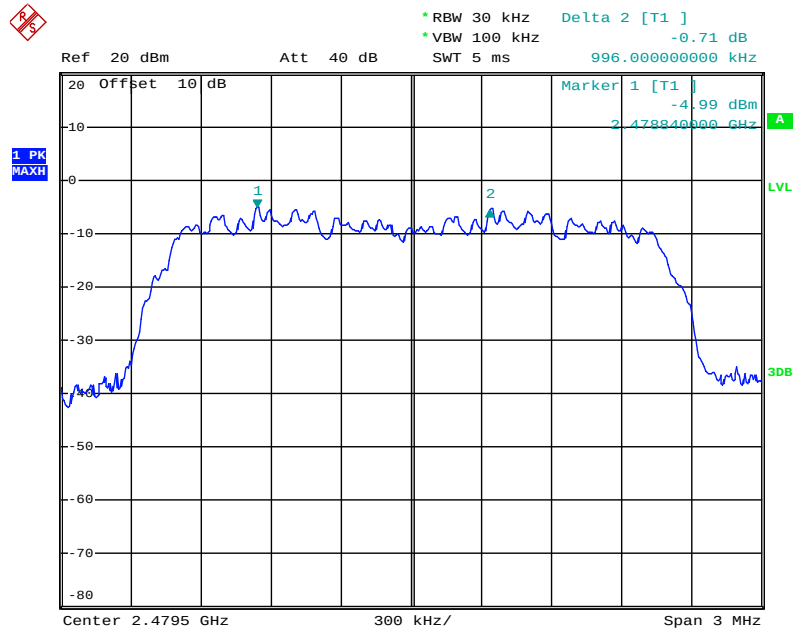
Low channel



Middle channel

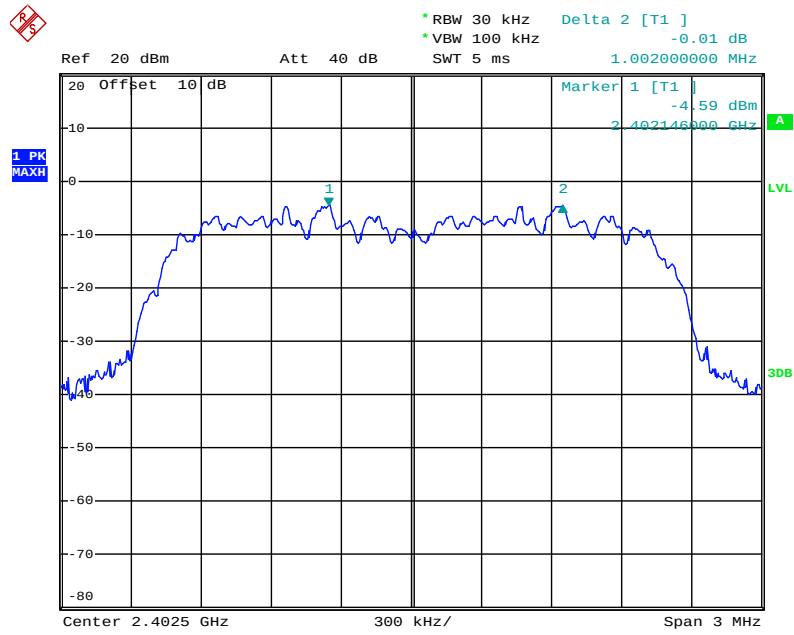


High channel

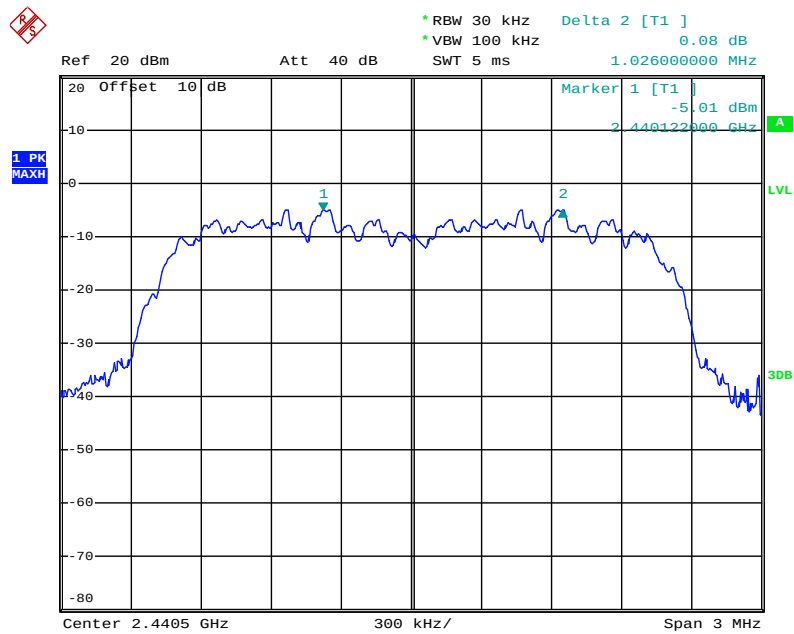


8DPSK Mode

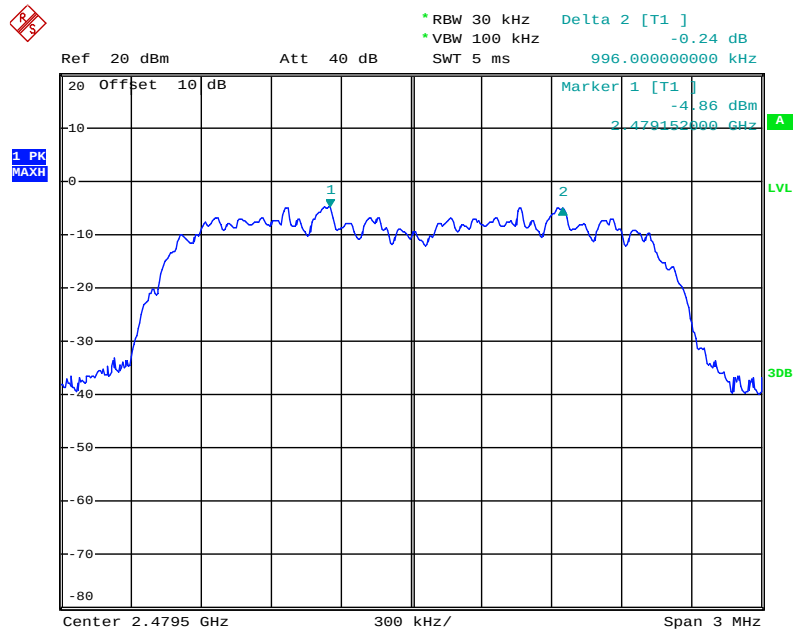
Low channel



Middle channel

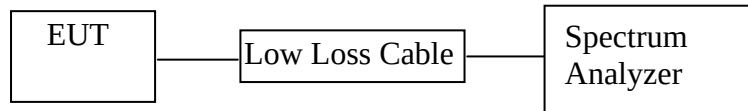


High channel



7. NUMBER OF HOPPING FREQUENCY TEST

7.1. Block Diagram of Test Setup



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.

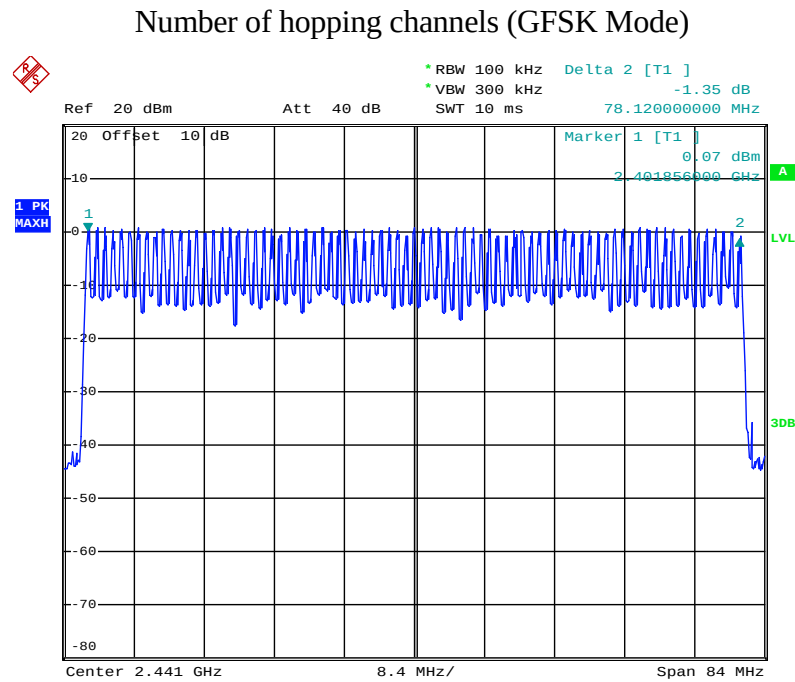
7.5.3. Max hold, view and count how many channel in the band.

7.6.Test Result

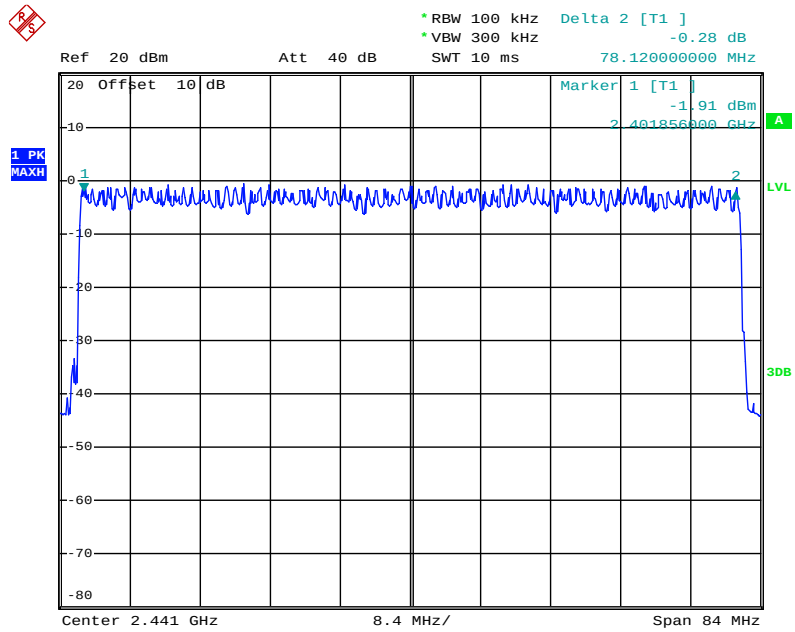
Test Lab: Shielding room

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

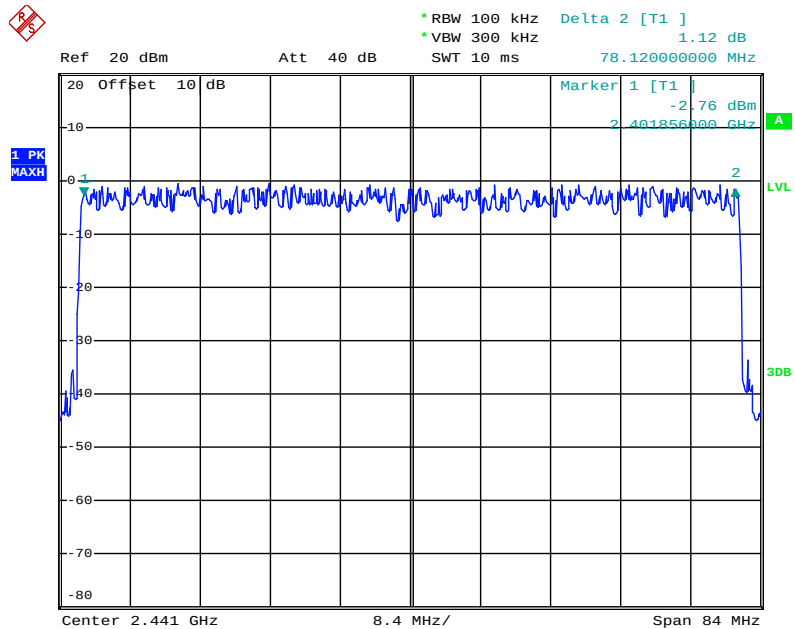
The spectrum analyzer plots are attached as below.



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

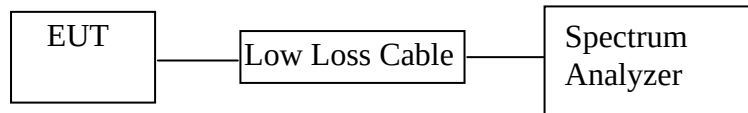


Number of hopping channels (8DPSK Mode)



8. DWELL TIME TEST

8.1. Block Diagram of Test Setup



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

Test Lab: Shielding room

GFSK Mode (Worse case)

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2441	0.40	128.0	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2 \times 79)) \times 31.6$				
DH3	2441	1.70	272.0	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4 \times 79)) \times 31.6$				
DH5	2441	3.00	320.0	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6 \times 79)) \times 31.6$				

$\Pi/4$ -DQPSK (Worse case)

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2441	0.42	134.4	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2 \times 79)) \times 31.6$				
DH3	2441	1.70	272.0	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4 \times 79)) \times 31.6$				
DH5	2441	2.99	318.9	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 (Worse case)

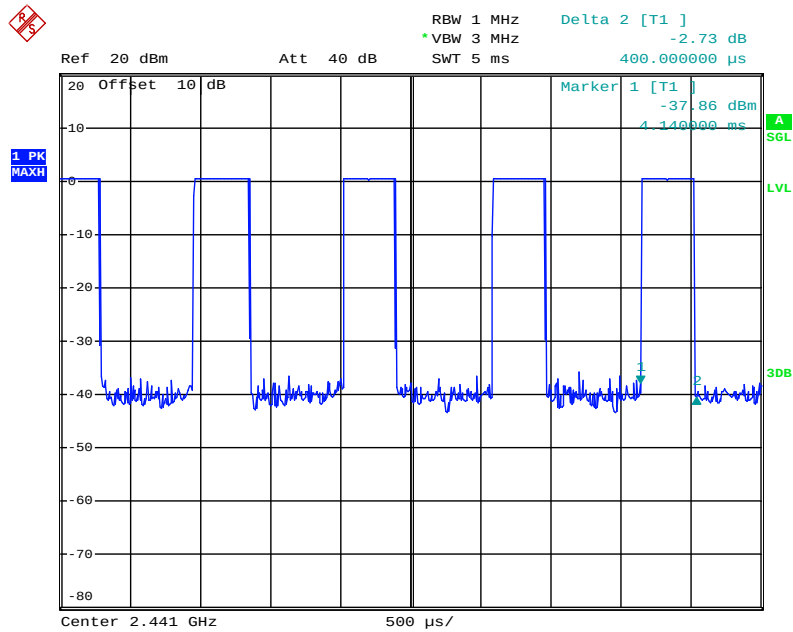
Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2441	0.40	128.0	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2 \times 79)) \times 31.6$				
DH3	2441	1.70	272.0	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4 \times 79)) \times 31.6$				
DH5	2441	2.99	318.9	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6 \times 79)) \times 31.6$				

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

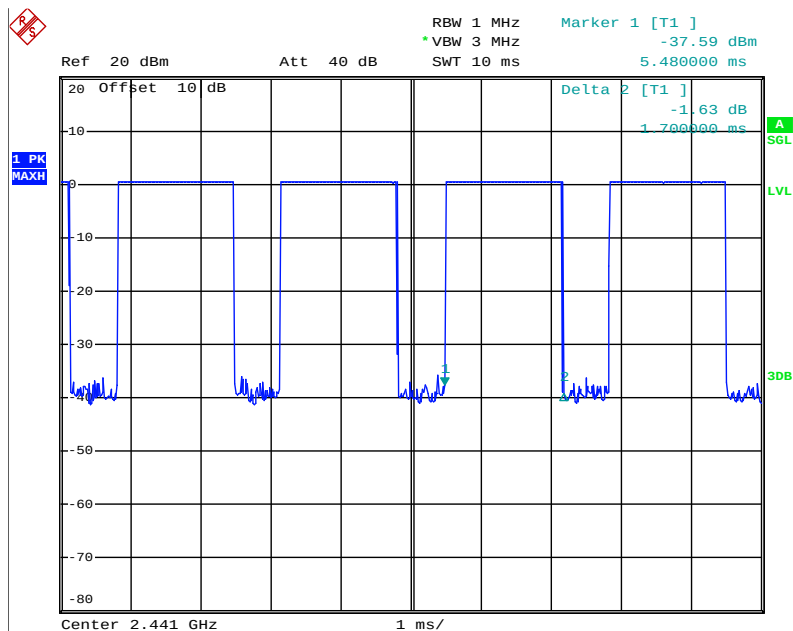
The spectrum analyzer plots are attached as below.

GFSK Mode

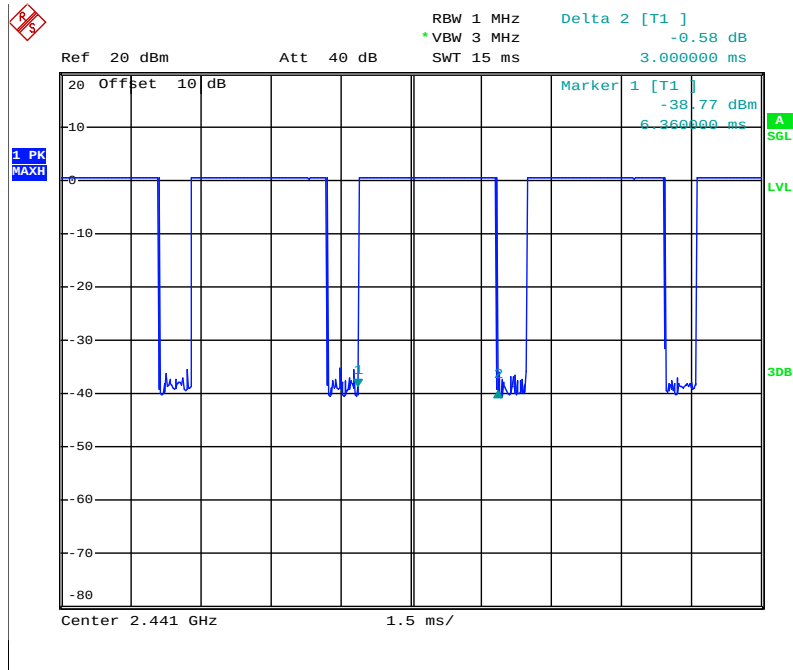
DH1 Middle channel



DH3 Middle channel

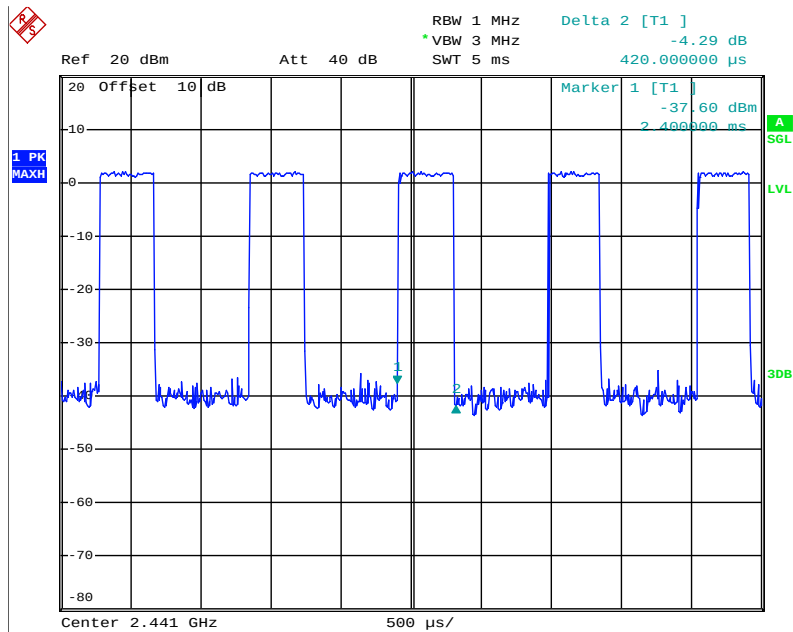


DH5 Middle channel

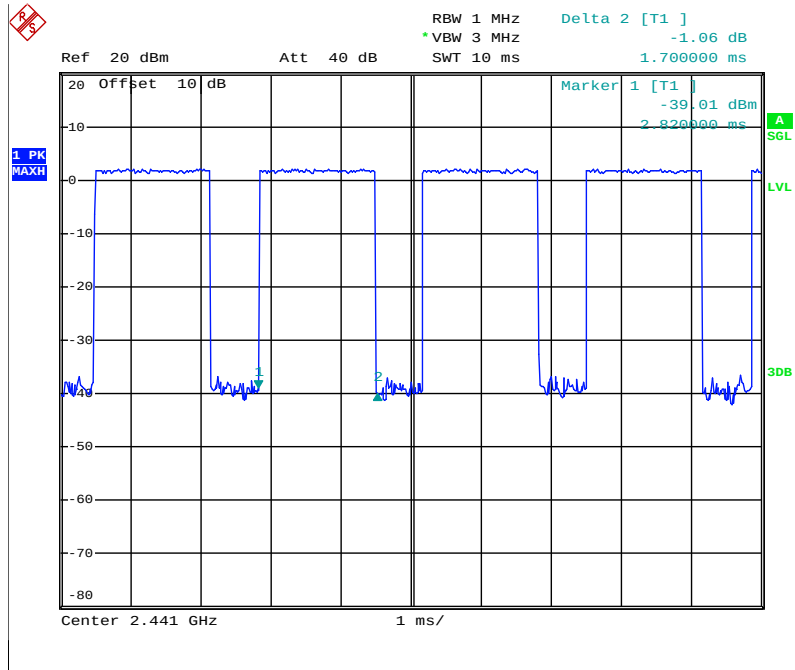


Π/4-DQPSK Mode

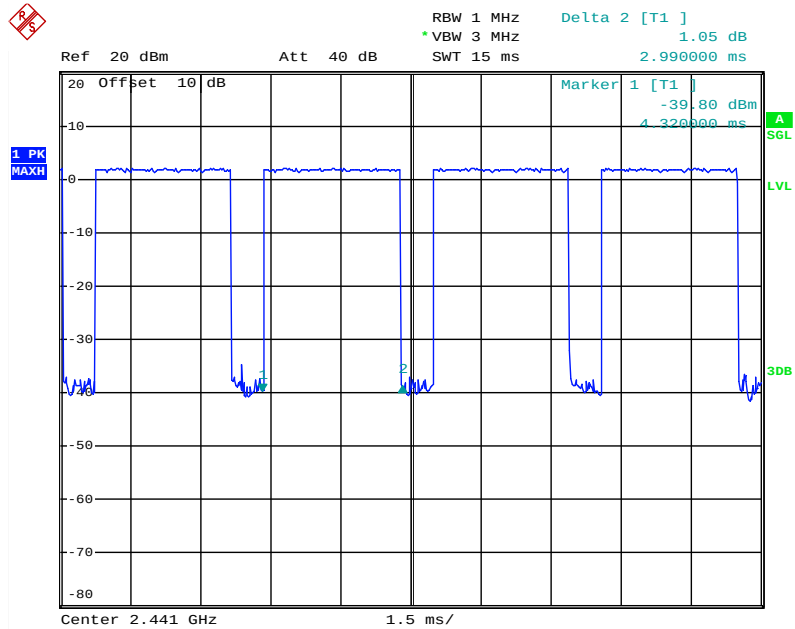
2DH1 Middle channel



2DH3 Middle channel

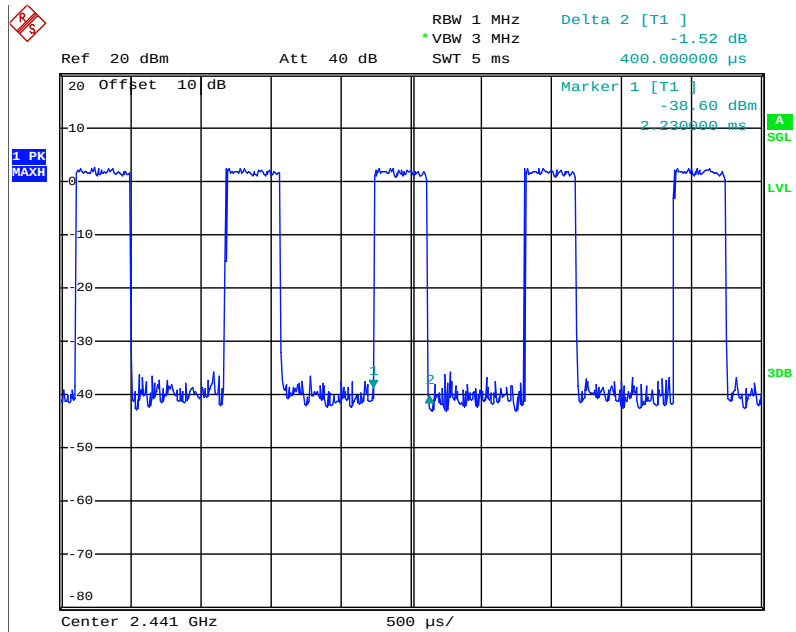


2DH5 Middle channel

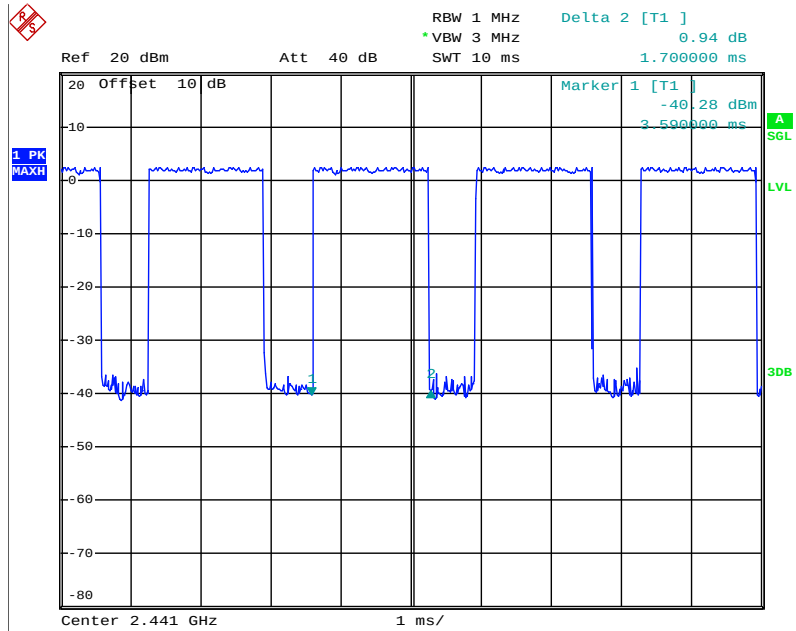


8DPSK Mode

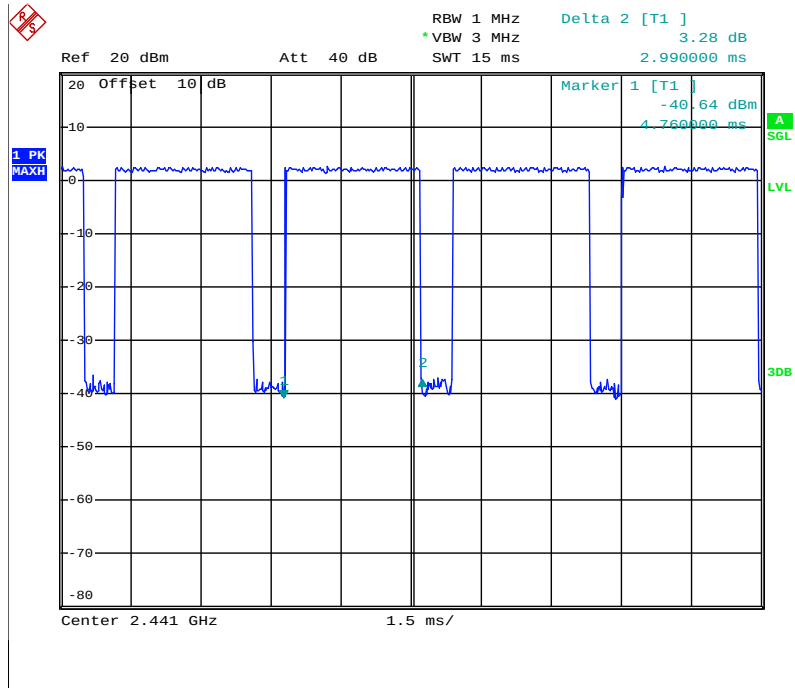
3DH1 Middle channel



3DH3 Middle channel



3DH5 Middle channel



9. MAXIMUM PEAK OUTPUT POWER TEST

9.1. Block Diagram of Test Setup



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 10MHz.

9.5.3. Measurement the maximum peak output power.

9.6. Test Result

Test Lab: Shielding room

GFSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W
Low	2402	0.90/0.0012	21 / 0.125
Middle	2441	0.69/0.0012	21 / 0.125
High	2480	0.43/0.0011	21 / 0.125

II/4-DQPSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W
Low	2402	3.42/0.0022	21 / 0.125
Middle	2441	3.12/0.0021	21 / 0.125
High	2480	3.00/0.0020	21 / 0.125

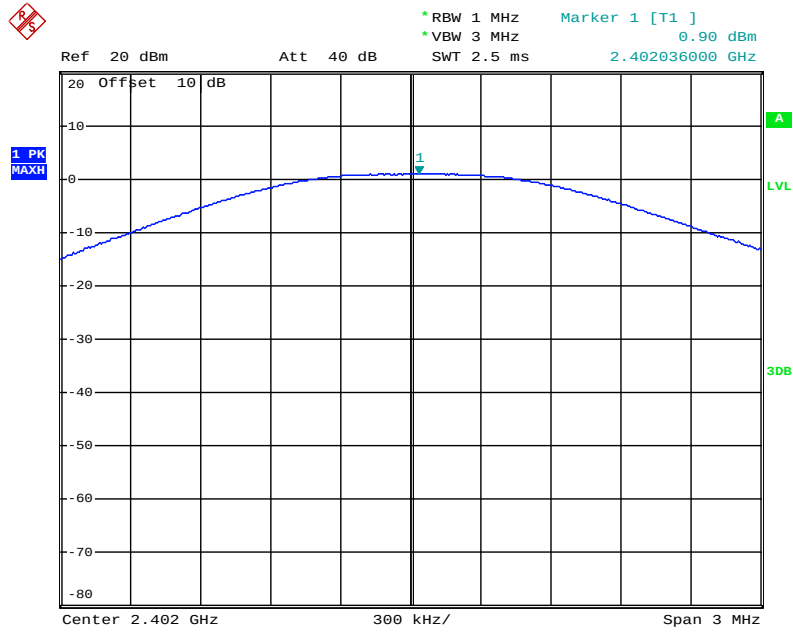
8DPSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W
Low	2402	3.79/0.0024	21 / 0.125
Middle	2441	3.45/0.0022	21 / 0.125
High	2480	3.36/0.0022	21 / 0.125

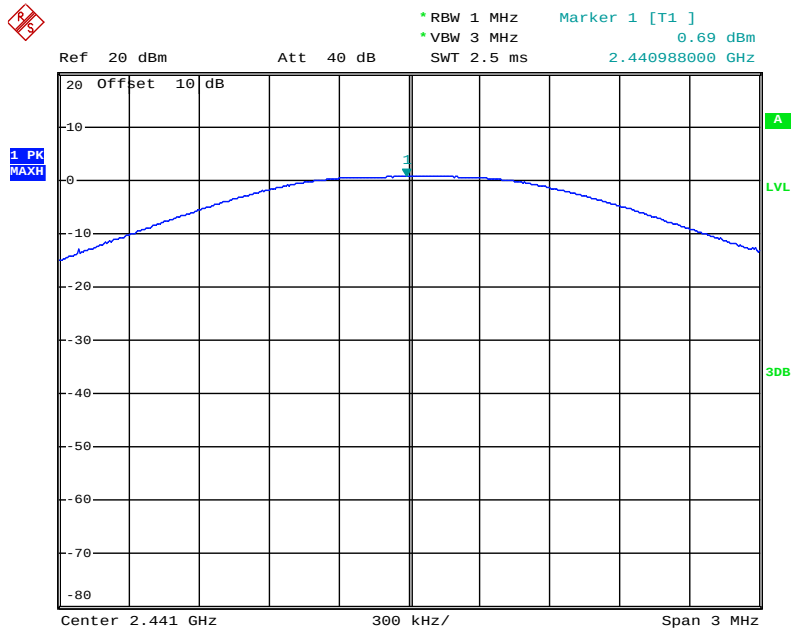
The spectrum analyzer plots are attached as below.

GFSK Mode

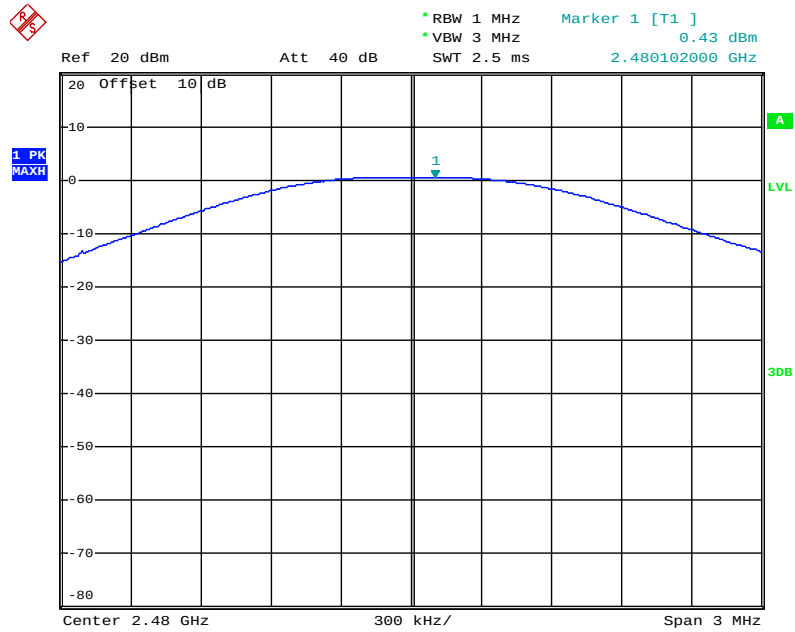
Low channel



Middle channel

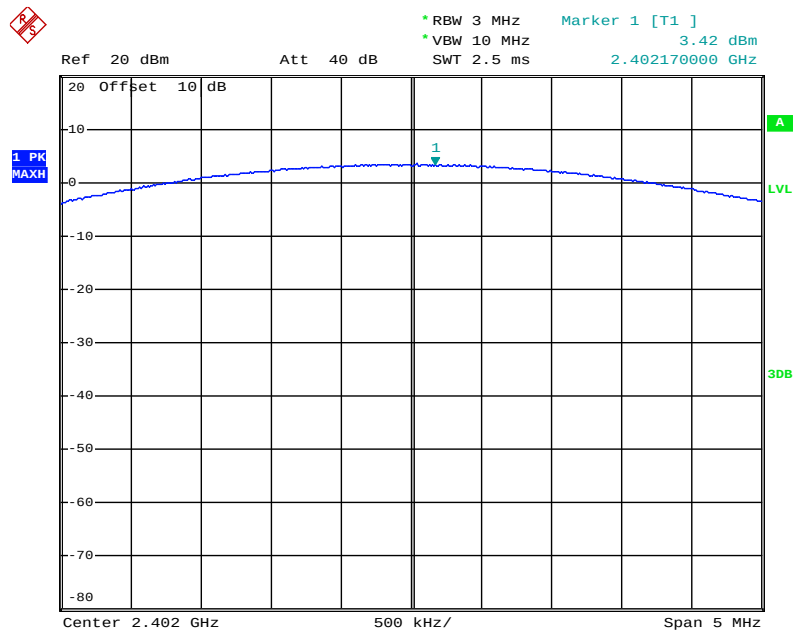


High channel

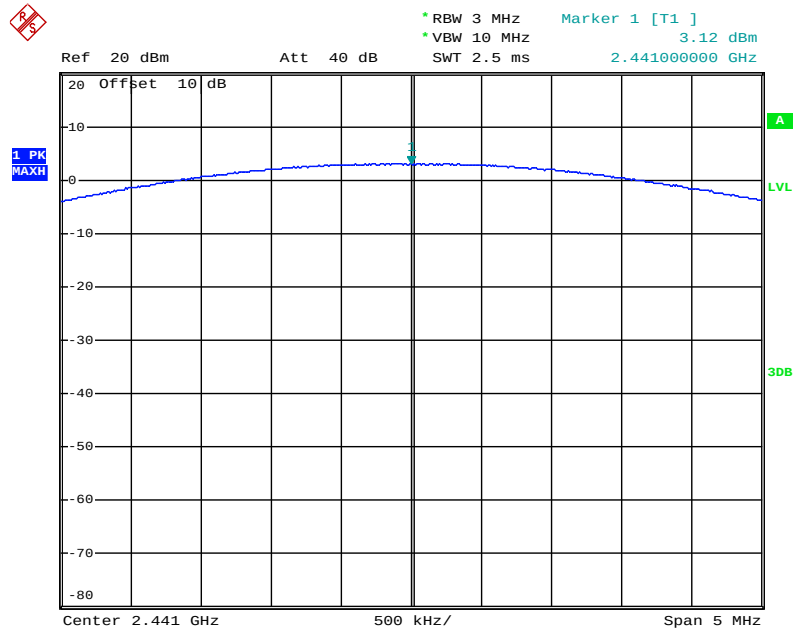


$\Pi/4$ -DQPSK Mode

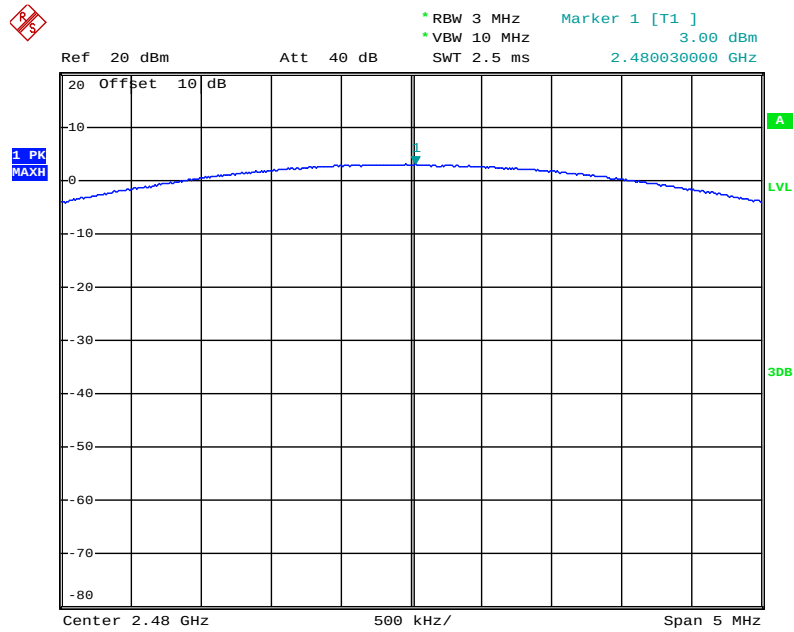
Low channel



Middle channel

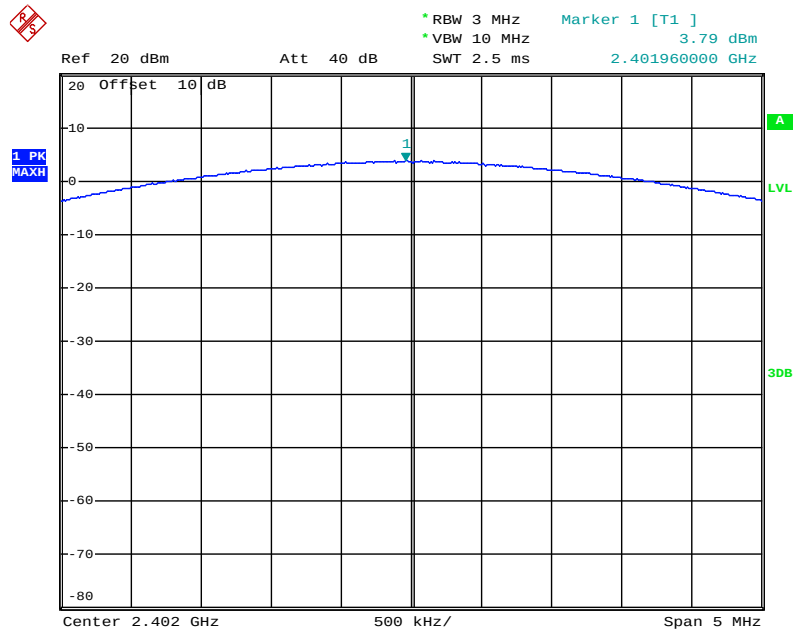


High channel

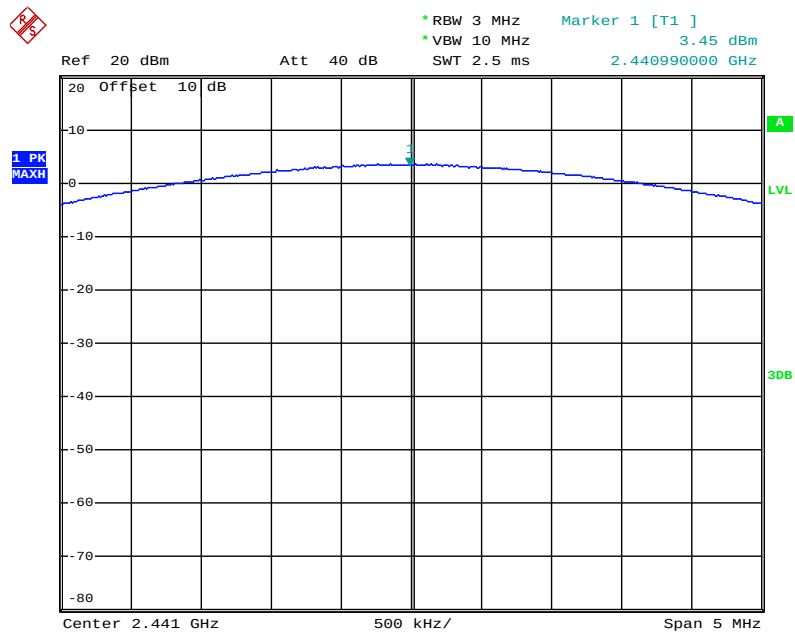


8DPSK Mode

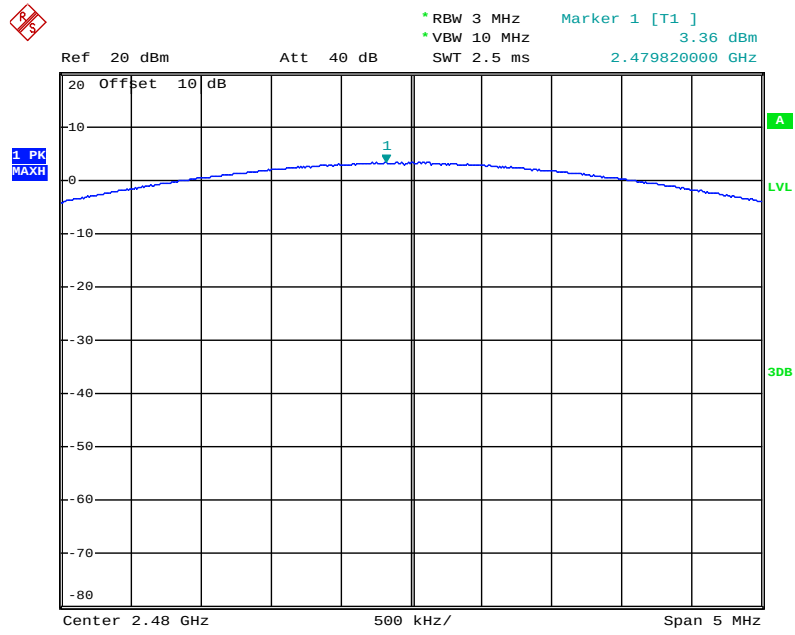
Low channel



Middle channel



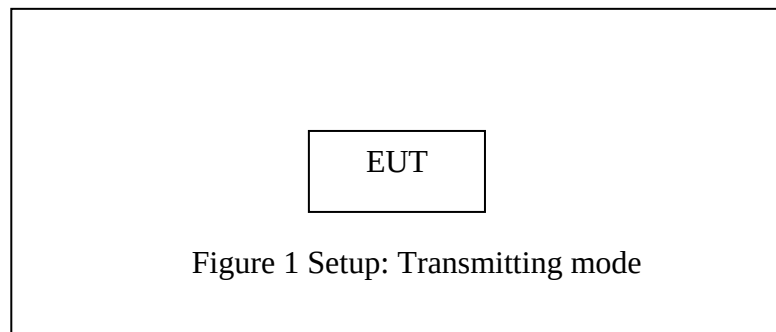
High channel



10.RADIATED EMISSION TEST

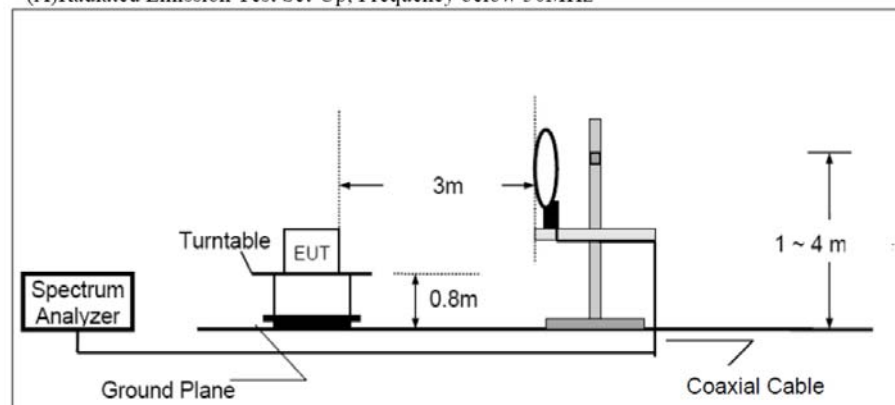
10.1.Block Diagram of Test Setup

10.1.1.Block diagram of connection between the EUT and peripherals

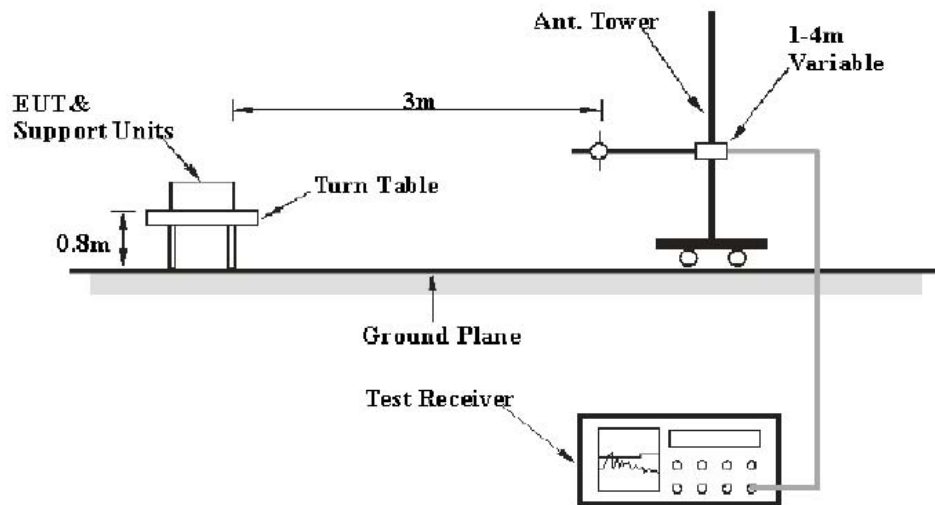


10.1.2.Semi-Anechoic Chamber Test Setup Diagram

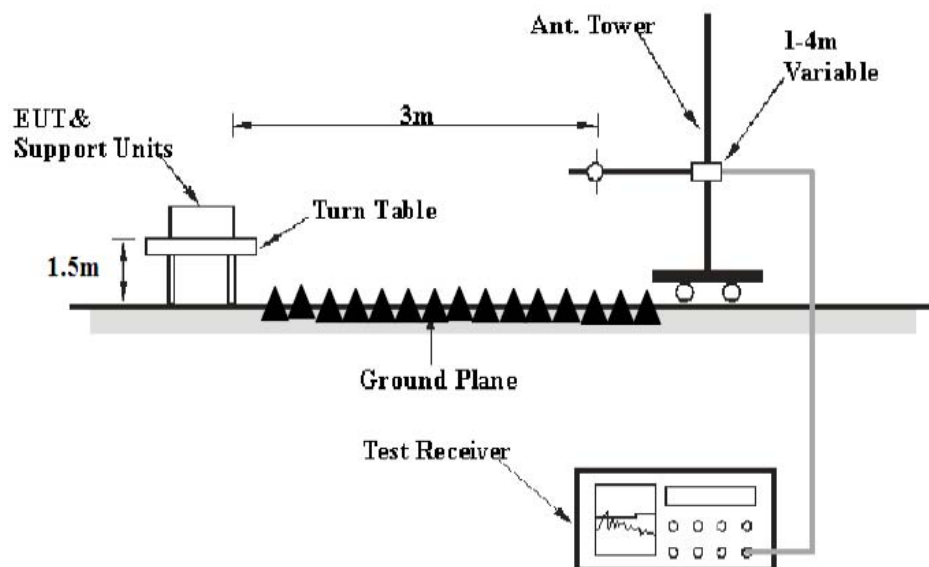
(A)Radiated Emission Test Set-Up. Frequency below 30MHz



(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 Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

10.4.Configuration of EUT on Measurement

The equipment 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.Tetst Results

Pass.

Test Lab: 3m Anechoic chamber

Note: 1.We tested GFSK mode, $\Pi/4$ -DQPSK Mode & 8DPSK mode and recorded the Worse 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 26.5GHz.

The spectrum analyzer plots are attached as below.

Below 1GHz



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Site: 1# Chamber

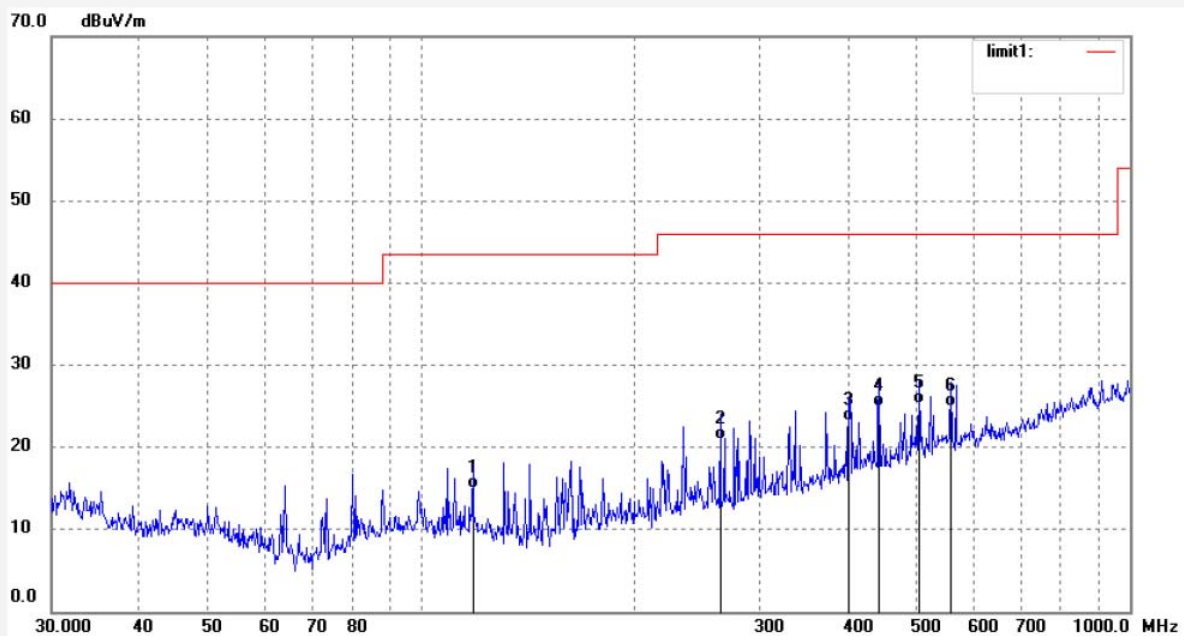
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: kts #11
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Bluetooth True Wireless Earbuds
Mode: TX 2402MHz
Model: AHS75-ANC
Manufacturer: Acousycom

Polarization: Vertical
Power Source: DC 3.7V
Date: 20/02/21/
Time: 10/45/37
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE2020088



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	118.0956	40.66	-25.66	15.00	43.50	-28.50	QP	100	126	
2	264.0416	44.06	-23.06	21.00	46.00	-25.00	QP	100	163	
3	401.1050	41.66	-18.55	23.11	46.00	-22.89	QP	100	198	
4	442.5722	42.47	-17.47	25.00	46.00	-21.00	QP	100	245	
5	504.0151	41.35	-16.05	25.30	46.00	-20.70	QP	100	296	
6	558.0788	39.40	-14.50	24.90	46.00	-21.10	QP	100	316	



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Fax:+86-0755-26503396

Job No.: kts #12

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth True Wireless Earbuds

Mode: TX 2402MHz

Model: AHS75-ANC

Manufacturer: Acousycom

Polarization: Horizontal

Power Source: DC 3.7V

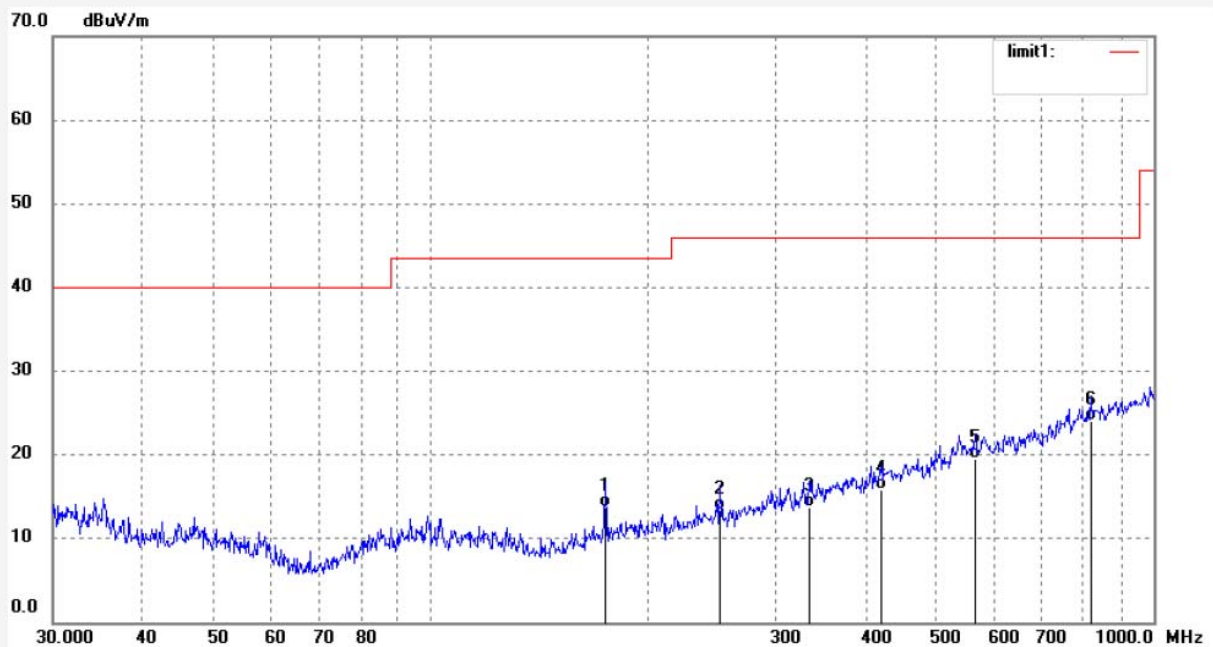
Date: 20/02/21/

Time: 10/46/26

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE2020088



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	174.4265	39.49	-25.79	13.70	43.50	-29.80	QP	200	115	
2	251.3676	36.67	-23.27	13.40	46.00	-32.60	QP	200	186	
3	334.1254	34.10	-20.30	13.80	46.00	-32.20	QP	200	201	
4	419.8509	33.63	-17.83	15.80	46.00	-30.20	QP	200	236	
5	565.9776	33.91	-14.41	19.50	46.00	-26.50	QP	200	286	
6	818.5062	33.71	-9.71	24.00	46.00	-22.00	QP	200	319	



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Fax:+86-0755-26503396

Job No.: kts #13

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth True Wireless Earbuds

Mode: TX 2441MHz

Model: AHS75-ANC

Manufacturer: Acousycom

Polarization: Horizontal

Power Source: DC 3.7V

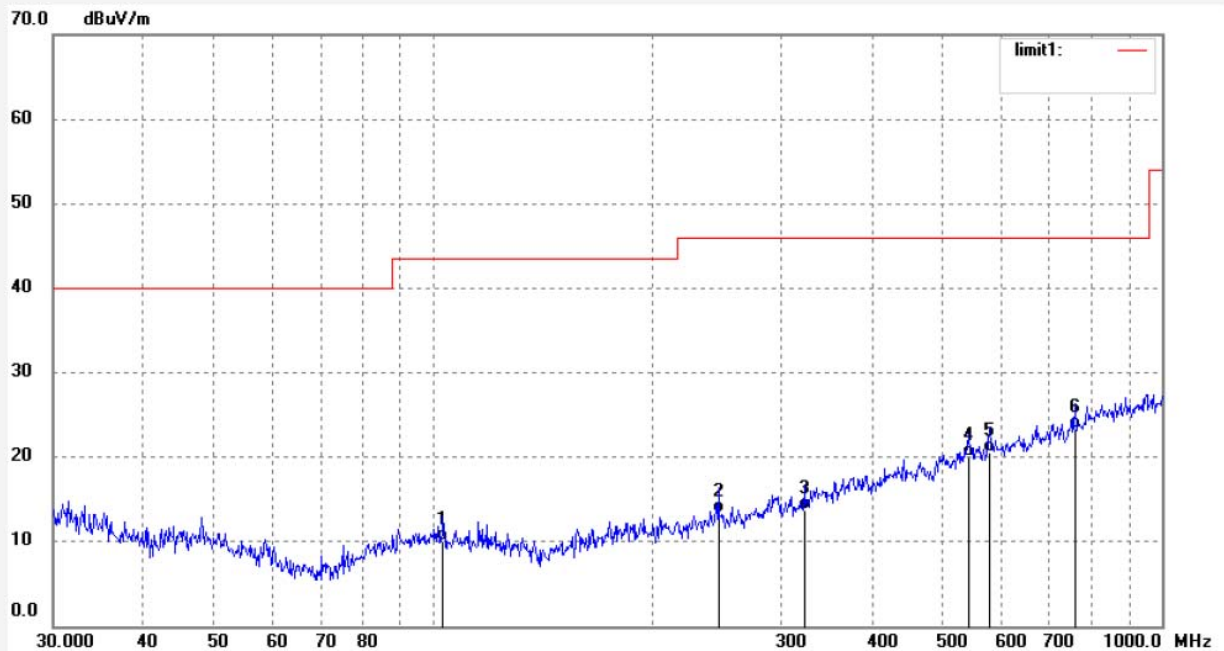
Date: 20/02/21/

Time: 10/47/22

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE2020088



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	102.9728	35.36	-25.36	10.00	43.50	-33.50	QP	200	126	
2	246.1237	36.67	-23.27	13.40	46.00	-32.60	QP	200	186	
3	322.5896	34.43	-20.73	13.70	46.00	-32.30	QP	200	197	
4	542.6104	34.89	-14.89	20.00	46.00	-26.00	QP	200	216	
5	580.0705	34.66	-14.16	20.50	46.00	-25.50	QP	200	286	
6	760.2866	34.57	-11.27	23.30	46.00	-22.70	QP	200	319	



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Site: 1# Chamber

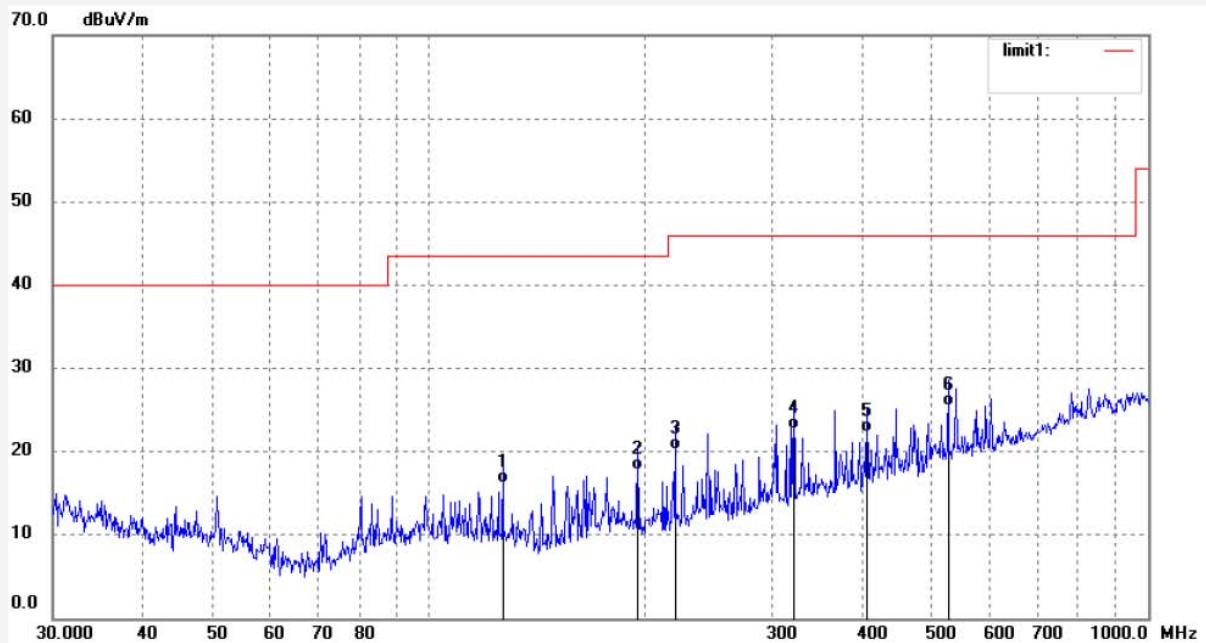
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: kts #14
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Bluetooth True Wireless Earbuds
Mode: TX 2441MHz
Model: AHS75-ANC
Manufacturer: Acousycom

Polarization: Vertical
Power Source: DC 3.7V
Date: 20/02/21/
Time: 10/48/06
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE2020088



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	126.6931	42.28	-26.17	16.11	43.50	-27.39	QP	100	118	
2	195.1830	42.54	-24.74	17.80	43.50	-25.70	QP	100	165	
3	219.9499	44.34	-24.14	20.20	46.00	-25.80	QP	100	185	
4	321.4581	43.39	-20.79	22.60	46.00	-23.40	QP	100	205	
5	406.7819	40.70	-18.40	22.30	46.00	-23.70	QP	100	263	
6	527.5706	40.90	-15.40	25.50	46.00	-20.50	QP	100	314	



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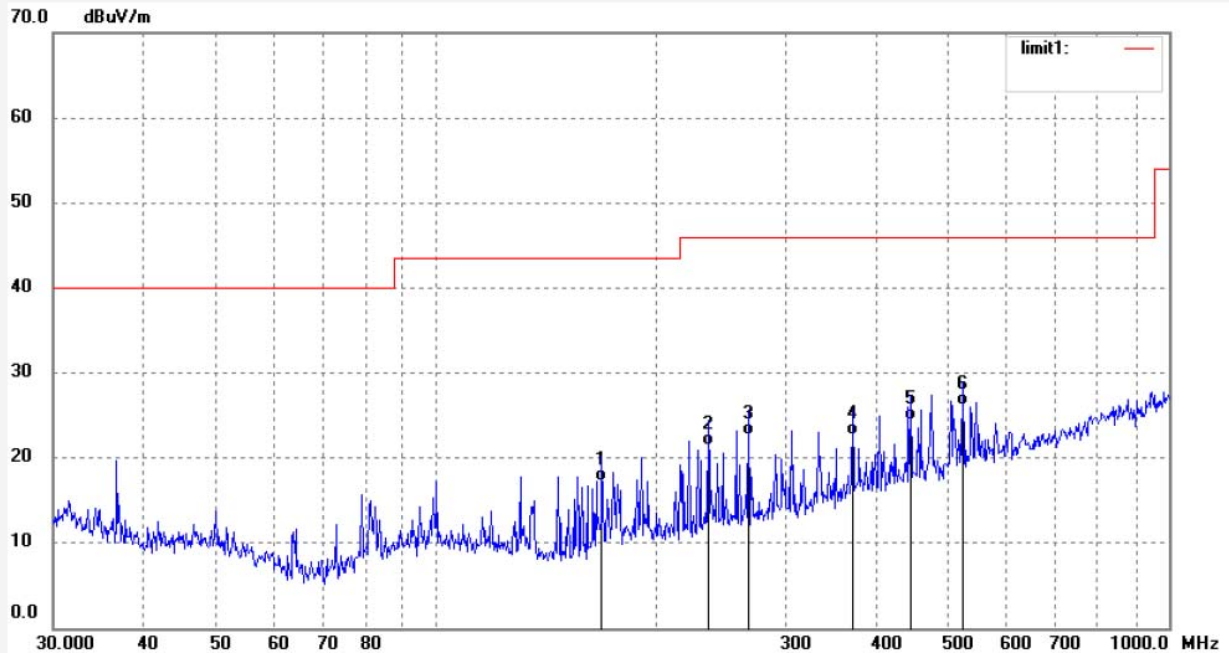
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: kts #15
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Bluetooth True Wireless Earbuds
Mode: TX 2480MHz
Model: AHS75-ANC
Manufacturer: Acousycom

Polarization: Vertical
Power Source: DC 3.7V
Date: 20/02/21/
Time: 10/48/48
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE2020088



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	168.4043	43.25	-26.05	17.20	43.50	-26.30	QP	100	116	
2	235.1346	44.88	-23.48	21.40	46.00	-24.60	QP	100	156	
3	266.8394	45.52	-22.92	22.60	46.00	-23.40	QP	100	186	
4	369.9658	41.93	-19.33	22.60	46.00	-23.40	QP	100	216	
5	444.1299	41.85	-17.45	24.40	46.00	-21.60	QP	100	275	
6	523.8763	41.58	-15.48	26.10	46.00	-19.90	QP	100	306	



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: kts #16

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth True Wireless Earbuds

Mode: TX 2480MHz

Model: AHS75-ANC

Manufacturer: Acousycom

Polarization: Horizontal

Power Source: DC 3.7V

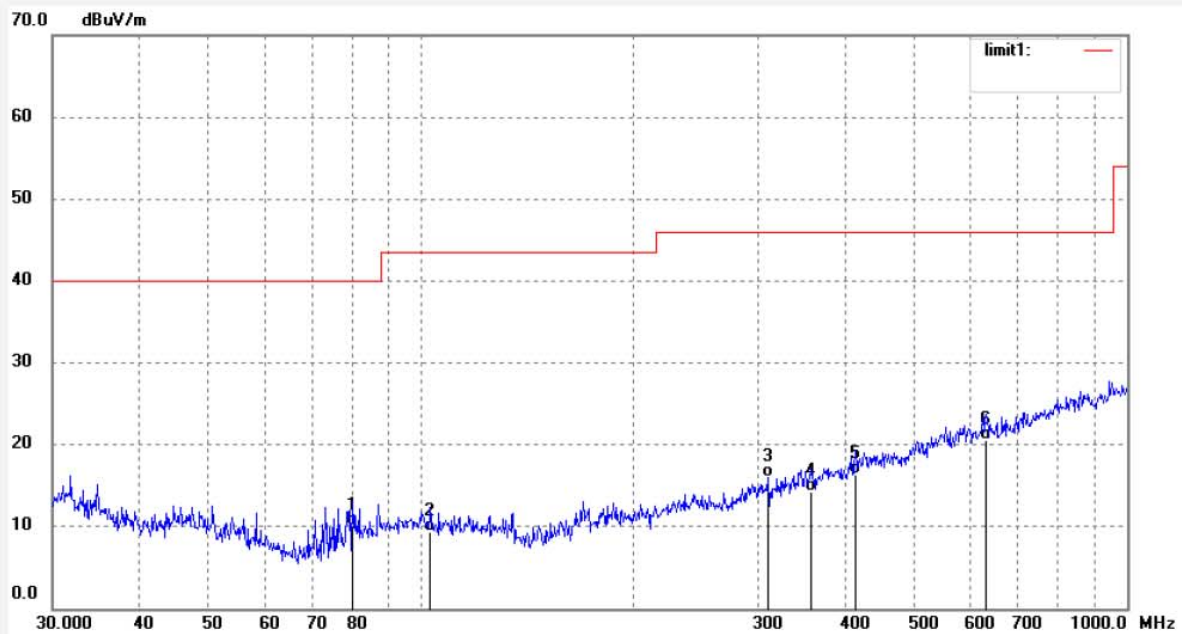
Date: 20/02/21/

Time: 10/50/08

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE2020088



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	79.9569	37.83	-27.78	10.05	40.00	-29.95	QP	200	119	
2	102.9728	34.70	-25.36	9.34	43.50	-34.16	QP	200	175	
3	310.3594	37.18	-21.19	15.99	46.00	-30.01	QP	200	198	
4	357.1923	33.73	-19.53	14.20	46.00	-31.80	QP	200	215	
5	412.5394	34.51	-18.19	16.32	46.00	-29.68	QP	200	286	
6	631.1070	34.21	-13.58	20.63	46.00	-25.37	QP	200	325	

Above 1GHz



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Job No.: FRANK2019 #1905

Standard: FCC PK

Test item: Radiation Test

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

EUT: Bluetooth True Wireless Earbuds

Mode: TX2402MHz(GFSK)

Model: AHS75-ANC

Manufacturer: Acousycom

Polarization: Horizontal

Power Source: DC 3.7V

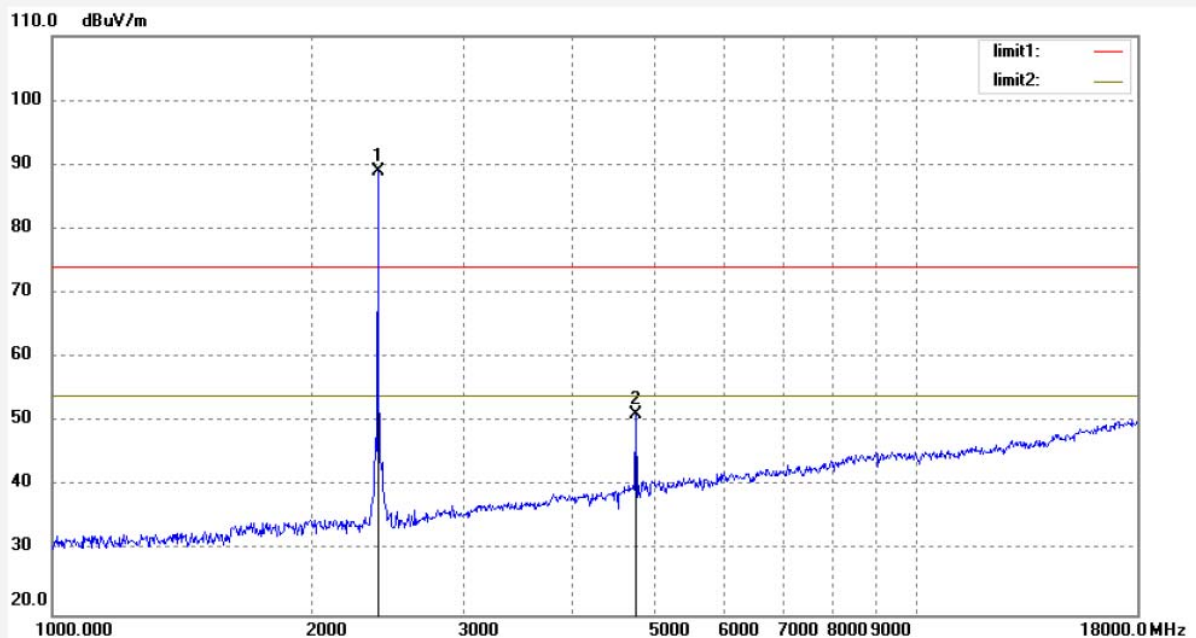
Date: 20/02/21/

Time: 13/45/50

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE2020088



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	95.37	-6.37	89.00			peak	200	231	
2	4804.000	50.47	0.70	51.17	74.00	-22.83	peak	200	104	



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Job No.: FRANK2019 #1906

Standard: FCC PK

Test item: Radiation Test

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

EUT: Bluetooth True Wireless Earbuds

Mode: TX2402MHz(GFSK)

Model: AHS75-ANC

Manufacturer: Acousycom

Polarization: Vertical

Power Source: DC 3.7V

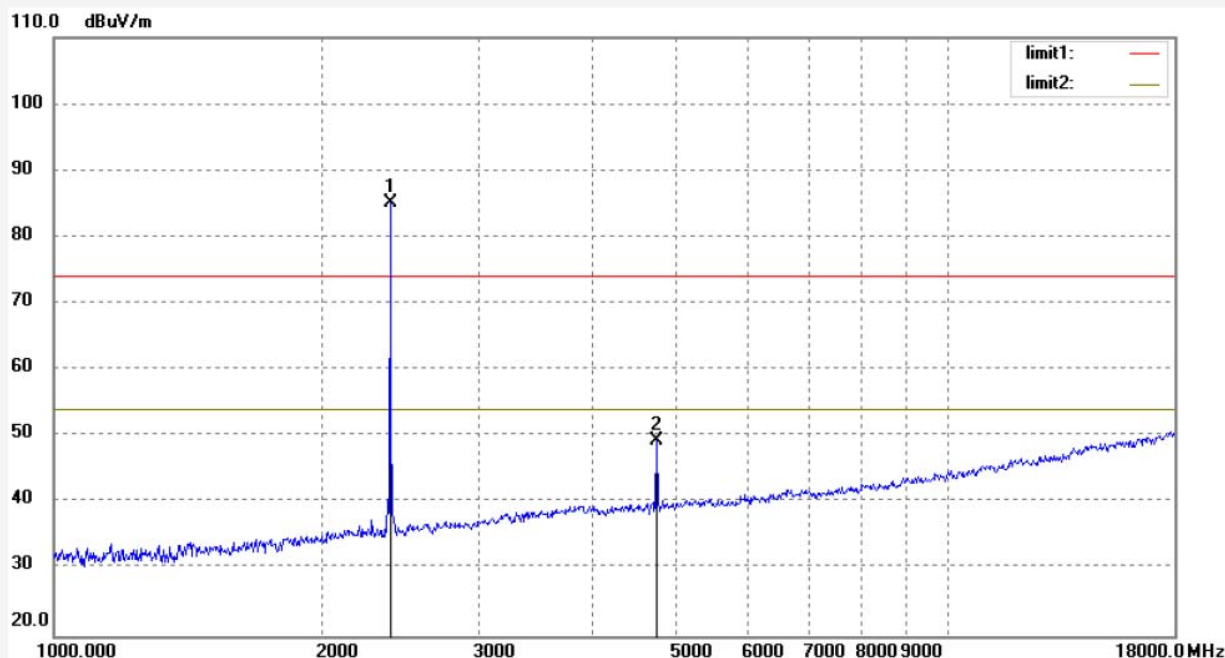
Date: 20/02/21/

Time: 13/47/07

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE2020088



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	91.43	-6.37	85.06			peak	150	52	
2	4804.000	48.65	0.70	49.35	74.00	-24.65	peak	150	102	



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Job No.: FRANK2019 #1907

Standard: FCC PK

Test item: Radiation Test

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

EUT: Bluetooth True Wireless Earbuds

Mode: TX2441MHz(GFSK)

Model: AHS75-ANC

Manufacturer: Acousycom

Polarization: Vertical

Power Source: DC 3.7V

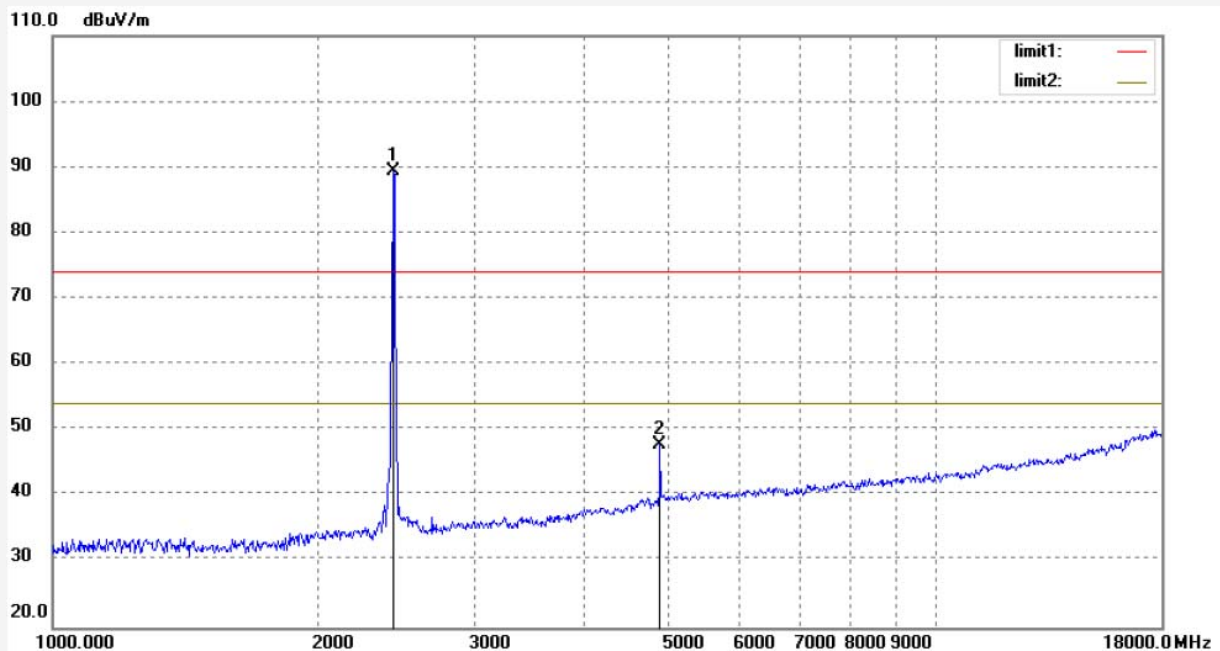
Date: 20/02/21/

Time: 13/52/22

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE2020088



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	95.64	-6.14	89.50			peak	150	344	
2	4882.000	46.53	1.32	47.85	74.00	-26.15	peak	150	204	



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Job No.: FRANK2019 #1908

Standard: FCC PK

Test item: Radiation Test

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

EUT: Bluetooth True Wireless Earbuds

Mode: TX2441MHz(GFSK)

Model: AHS75-ANC

Manufacturer: Acousycom

Polarization: Horizontal

Power Source: DC 3.7V

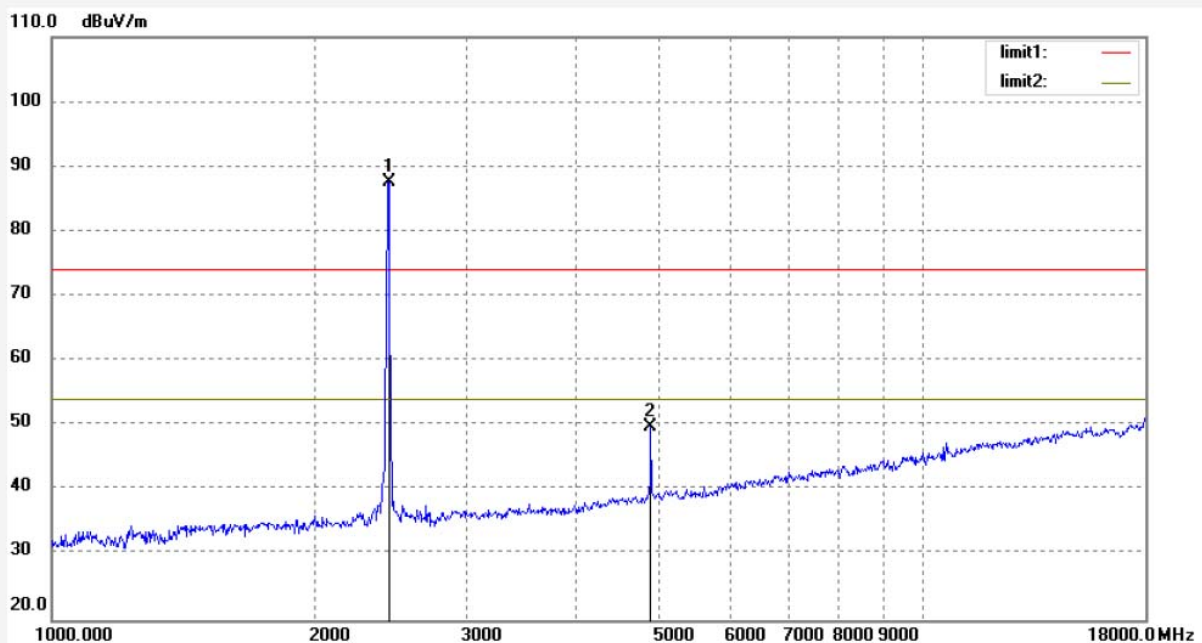
Date: 20/02/21/

Time: 13/50/28

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE2020088



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	93.73	-6.10	87.63			peak	200	41	
2	4882.000	48.53	1.32	49.85	74.00	-24.15	peak	200	155	



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Job No.: FRANK2019 #1909

Standard: FCC PK

Test item: Radiation Test

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

EUT: Bluetooth True Wireless Earbuds

Mode: TX2480MHz(GFSK)

Model: AHS75-ANC

Manufacturer: Acousycom

Polarization: Horizontal

Power Source: DC 3.7V

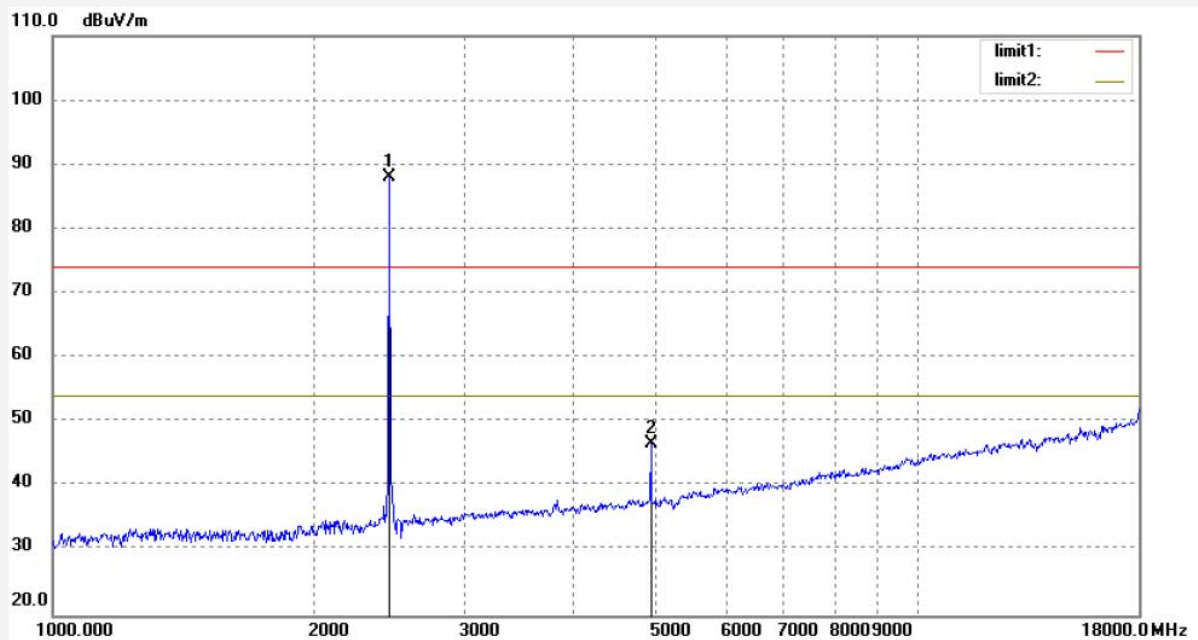
Date: 20/02/21/

Time: 13/54/14

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE2020088



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	94.15	-6.04	88.11			peak	200	21	
2	4960.000	45.07	1.50	46.57	74.00	-27.43	peak	250	158	



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Job No.: FRANK2019 #1910

Standard: FCC PK

Test item: Radiation Test

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

EUT: Bluetooth True Wireless Earbuds

Mode: TX2480MHz(GFSK)

Model: AHS75-ANC

Manufacturer: Acousycom

Polarization: Vertical

Power Source: DC 3.7V

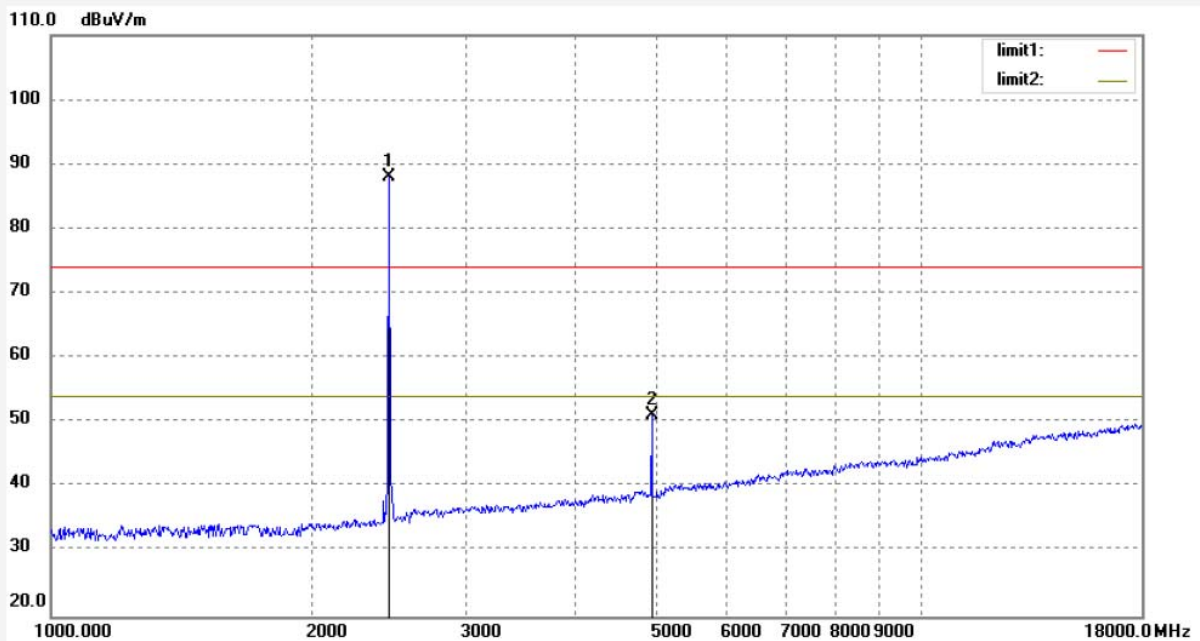
Date: 20/02/21/

Time: 13/56/21

Engineer Signature:

Distance: 3m

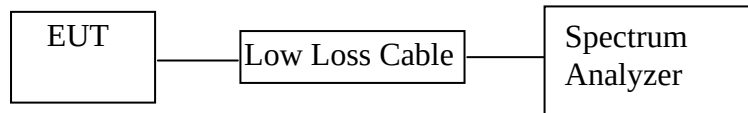
Note: Report NO.:ATE2020088



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	94.15	-6.04	88.11			peak	150	187	
2	4960.000	49.57	1.50	51.07	74.00	-22.93	peak	150	120	

11.BAND EDGE COMPLIANCE TEST

11.1.Block Diagram of Test Setup



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

Test Lab: Shielding room

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

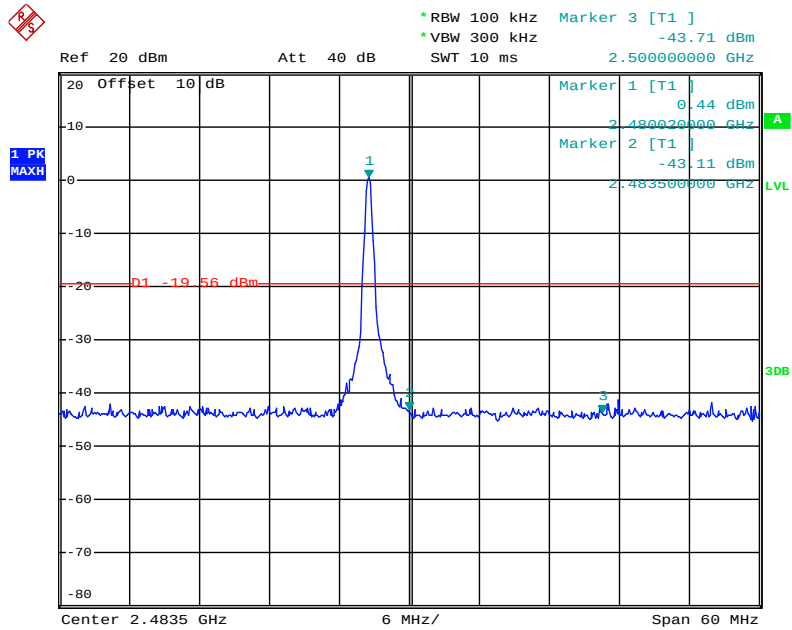
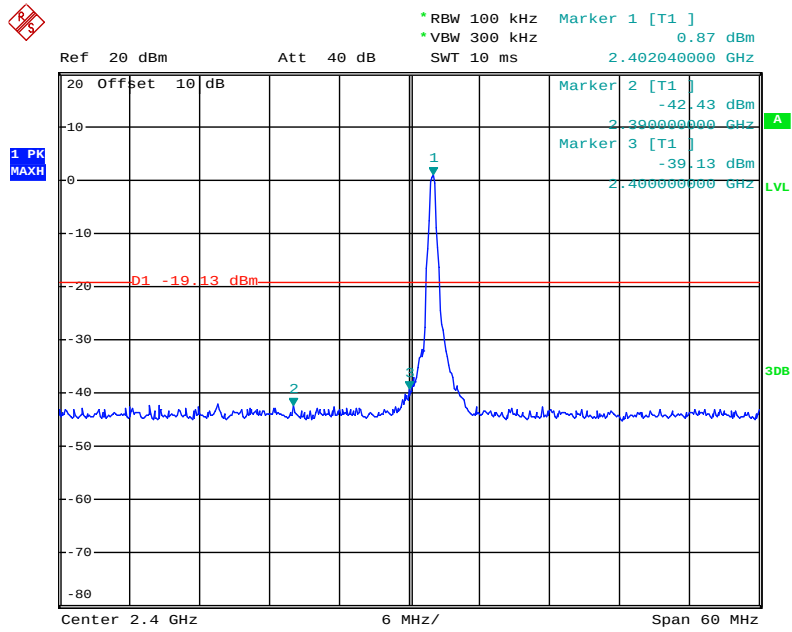
Conducted Band Edge Result

Non-hopping mode

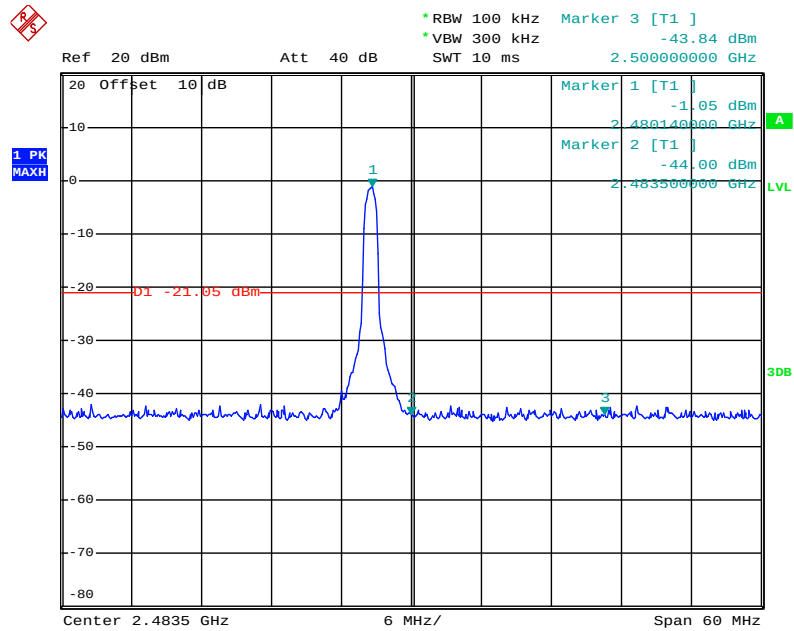
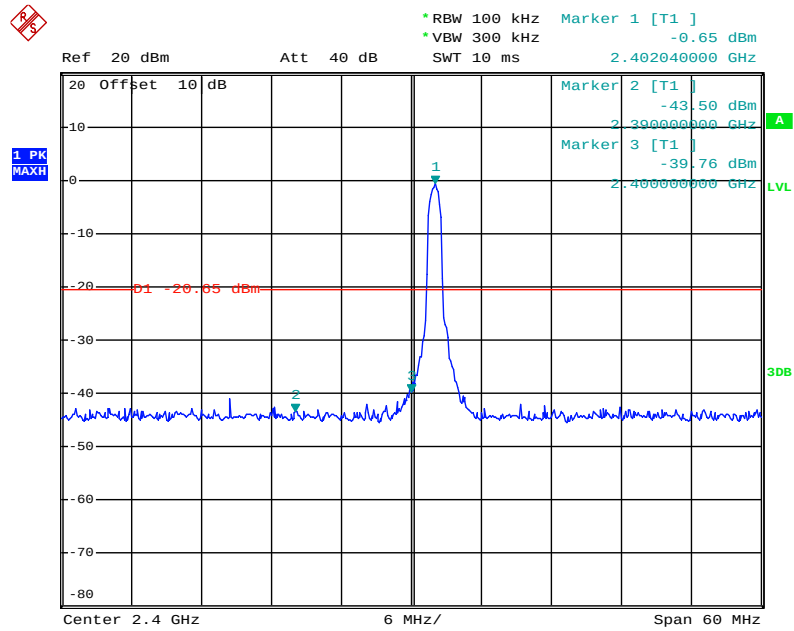
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)	Result
GFSK Mode			
2400.00	38.26	> 20dBc	Pass
2483.50	42.67	> 20dBc	Pass
$\Pi/4$ -DQPSK Mode			
2400.00	39.11	> 20dBc	Pass
2483.50	42.95	> 20dBc	Pass
8DPSK Mode			
2400.00	38.31	> 20dBc	Pass
2483.50	42.65	> 20dBc	Pass

The spectrum analyzer plots are attached as below.

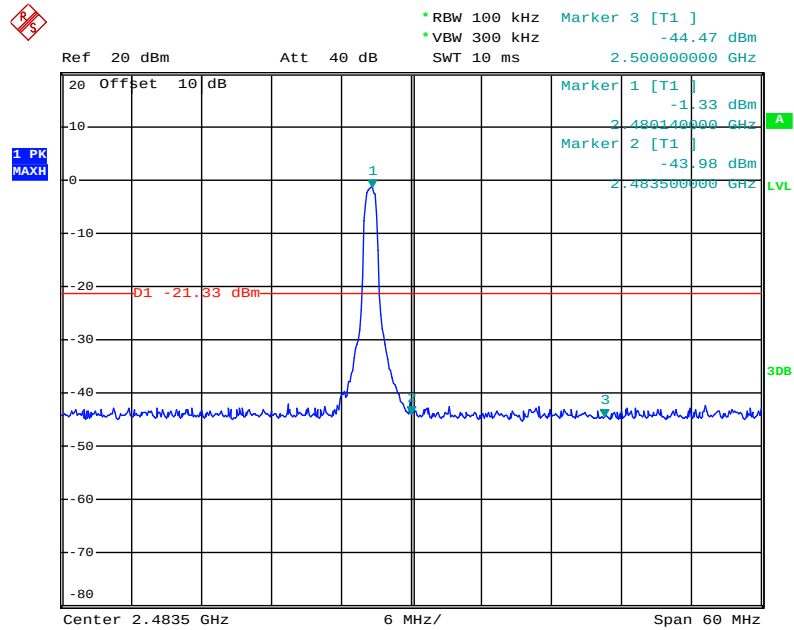
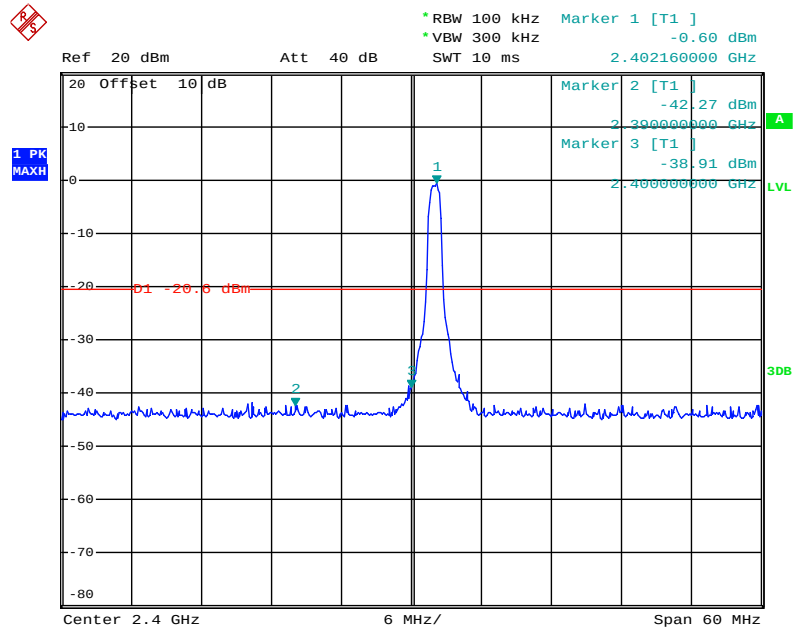
GFSK Mode



Π/4-DQPSK Mode



8DPSK Mode



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 worse case (GFSK Mode) emissions are reported.

Test Lab: 3m Anechoic chamber

The spectrum analyzer plots are attached as below.

Non-hopping mode



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Job No.: FRANK2019 #1887

Standard: FCC PK

Test item: Radiation Test

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

EUT: Bluetooth True Wireless Earbuds

Mode: TX2402MHz(GSKF)

Model: AHS75-ANC

Manufacturer: Acousycom

Polarization: Vertical

Power Source: DC 3.7V

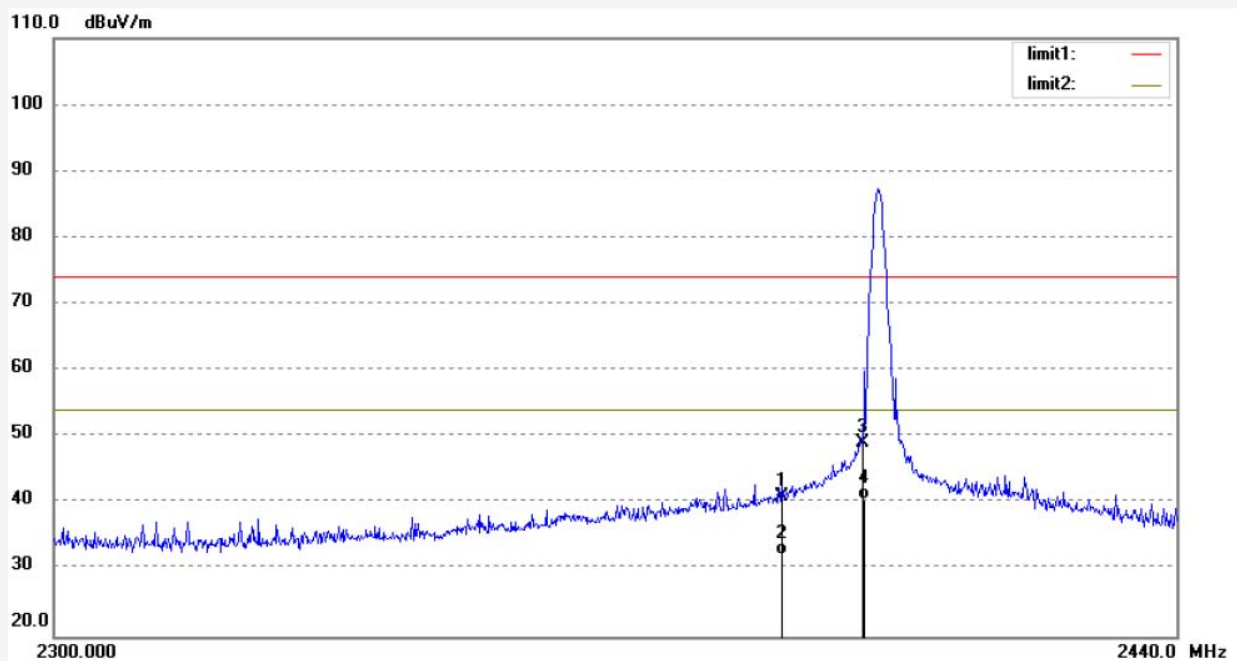
Date: 20/02/21/

Time: 12/47/52

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE2020088



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	47.31	-6.32	40.99	74.00	-33.01	peak	150	165	
2	2390.000	38.48	-6.32	32.16	54.00	-21.84	AVG	150	320	
3	2400.000	55.47	-6.27	49.20	74.00	-24.80	peak	150	218	
4	2400.000	46.77	-6.27	40.50	54.00	-13.50	AVG	150	98	

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



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Job No.: FRANK2019 #1888

Standard: FCC PK

Test item: Radiation Test

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

EUT: Bluetooth True Wireless Earbuds

Mode: TX2402MHz(GSKF)

Model: AHS75-ANC

Manufacturer: Acousycom

Polarization: Horizontal

Power Source: DC 3.7V

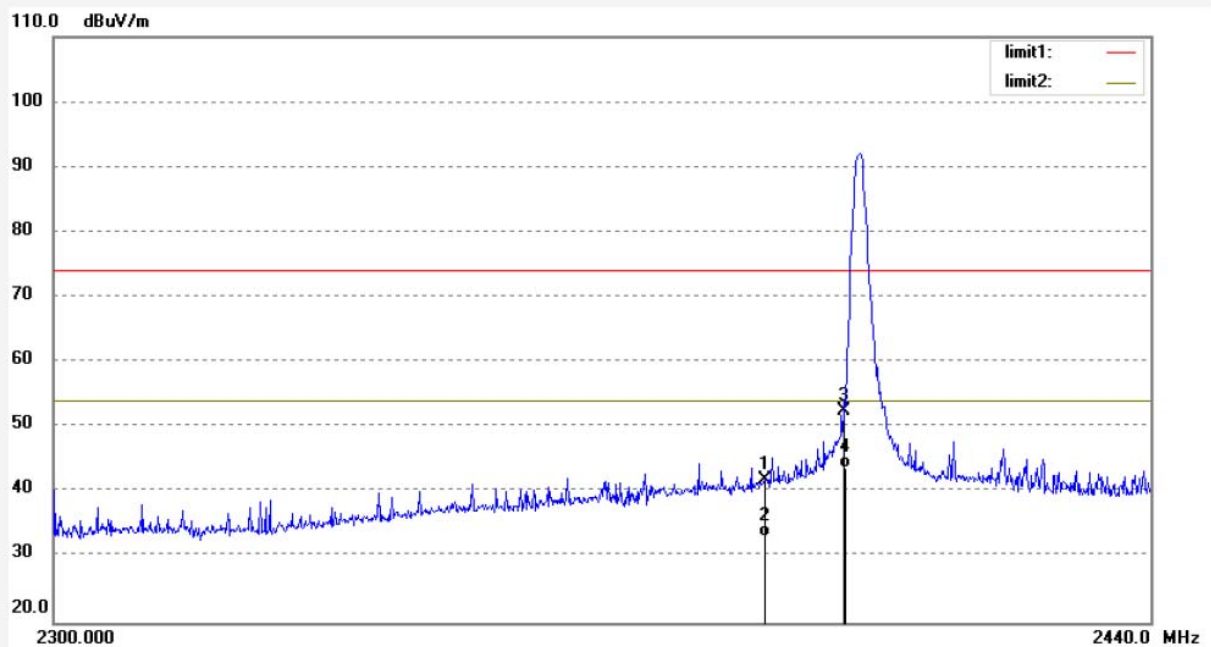
Date: 20/02/21/

Time: 12/49/06

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE2020088



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	48.32	-6.32	42.00	74.00	-32.00	peak	200	178	
2	2390.000	39.54	-6.32	33.22	54.00	-20.78	AVG	200	55	
3	2400.000	58.70	-6.27	52.43	74.00	-21.57	peak	200	215	
4	2400.000	49.96	-6.27	43.69	54.00	-10.31	AVG	200	63	

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



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Job No.: FRANK2019 #1897

Standard: FCC PK

Test item: Radiation Test

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

EUT: Bluetooth True Wireless Earbuds

Mode: TX2480MHz(GFSK)

Model: AHS75-ANC

Manufacturer: Acousycom

Polarization: Horizontal

Power Source: DC 3.7V

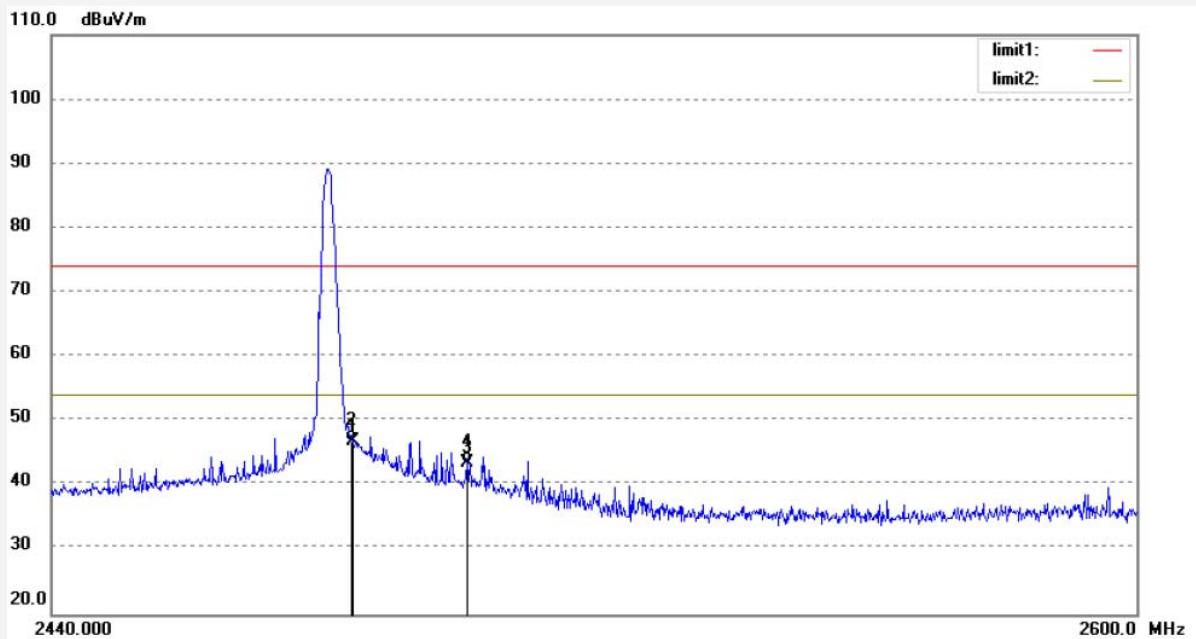
Date: 20/02/21/

Time: 13/05/54

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE2020088



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	52.76	-5.89	46.87	74.00	-27.13	peak	200	198	
2	2483.500	52.76	-5.89	46.87	54.00	-7.13	AVG	200	157	
3	2500.000	49.29	-5.81	43.48	74.00	-30.52	peak	200	63	
4	2500.000	49.29	-5.81	43.48	54.00	-10.52	AVG	200	210	

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



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Job No.: FRANK2019 #1898

Standard: FCC PK

Test item: Radiation Test

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

EUT: Bluetooth True Wireless Earbuds

Mode: TX2480MHz(GFSK)

Model: AHS75-ANC

Manufacturer: Acousycom

Polarization: Vertical

Power Source: DC 3.7V

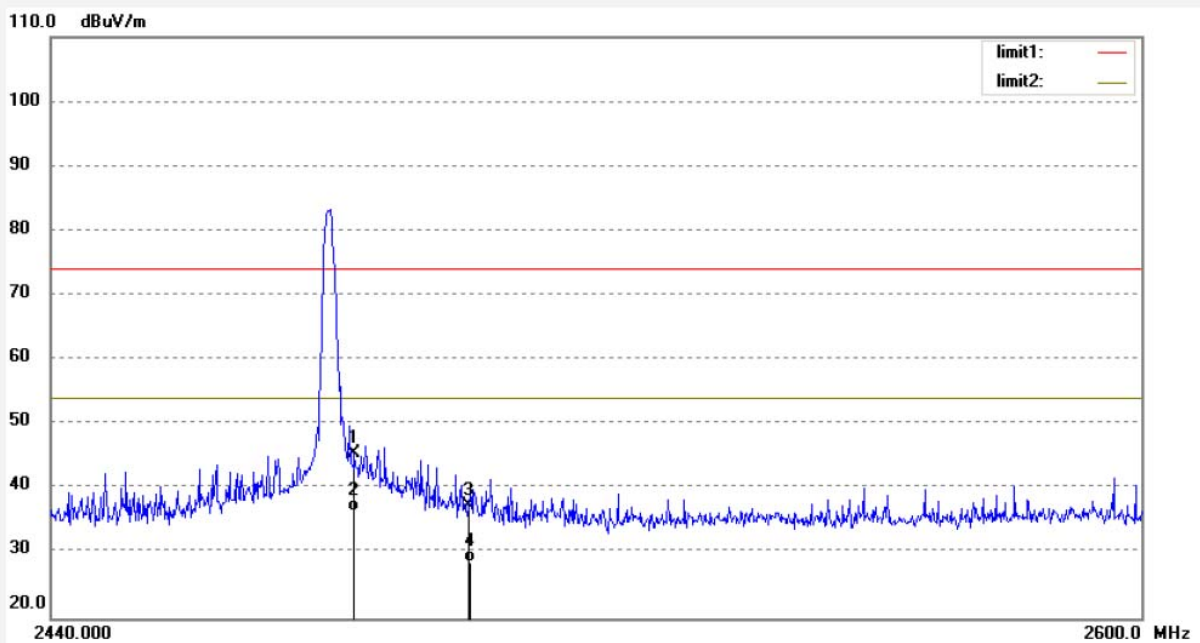
Date: 20/02/21/

Time: 13/07/09

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE2020088



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	51.34	-5.89	45.45	74.00	-28.55	peak	150	108	
2	2483.500	42.37	-5.89	36.48	54.00	-17.52	AVG	150	92	
3	2500.000	43.14	-5.81	37.33	74.00	-36.67	peak	150	118	
4	2500.000	34.54	-5.81	28.73	54.00	-25.27	AVG	150	315	

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

Hopping mode



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Job No.: FRANK2019 #1899

Standard: FCC PK

Test item: Radiation Test

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

EUT: Bluetooth True Wireless Earbuds

Mode: HOPPING(GFSK)

Model: AHS75-ANC

Manufacturer: Acousycom

Polarization: Vertical

Power Source: DC 3.7V

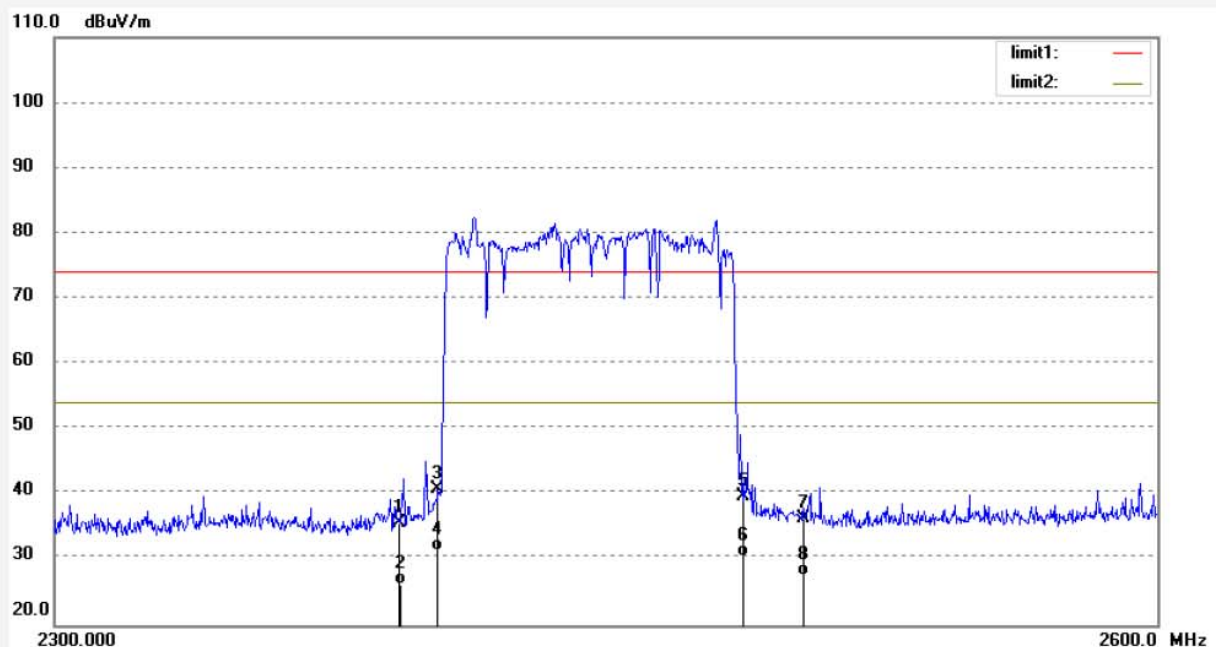
Date: 20/02/21/

Time: 13/11/33

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE2020088



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	41.92	-6.32	35.60	74.00	-38.40	peak	150	207	
2	2390.000	32.45	-6.32	26.13	54.00	-27.87	AVG	150	156	
3	2400.000	46.98	-6.27	40.71	74.00	-33.29	peak	150	62	
4	2400.000	37.54	-6.27	31.27	54.00	-22.73	AVG	150	305	
5	2483.500	45.56	-5.89	39.67	74.00	-34.33	peak	150	219	
6	2483.500	36.45	-5.89	30.56	54.00	-23.44	AVG	150	63	
7	2500.000	42.12	-5.81	36.31	74.00	-37.69	peak	150	221	
8	2500.000	33.45	-5.81	27.64	54.00	-26.36	AVG	150	31	

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



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Job No.: FRANK2019 #1900

Standard: FCC PK

Test item: Radiation Test

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

EUT: Bluetooth True Wireless Earbuds

Mode: HOPPING(GFSK)

Model: AHS75-ANC

Manufacturer: Acousycom

Polarization: Horizontal

Power Source: DC 3.7V

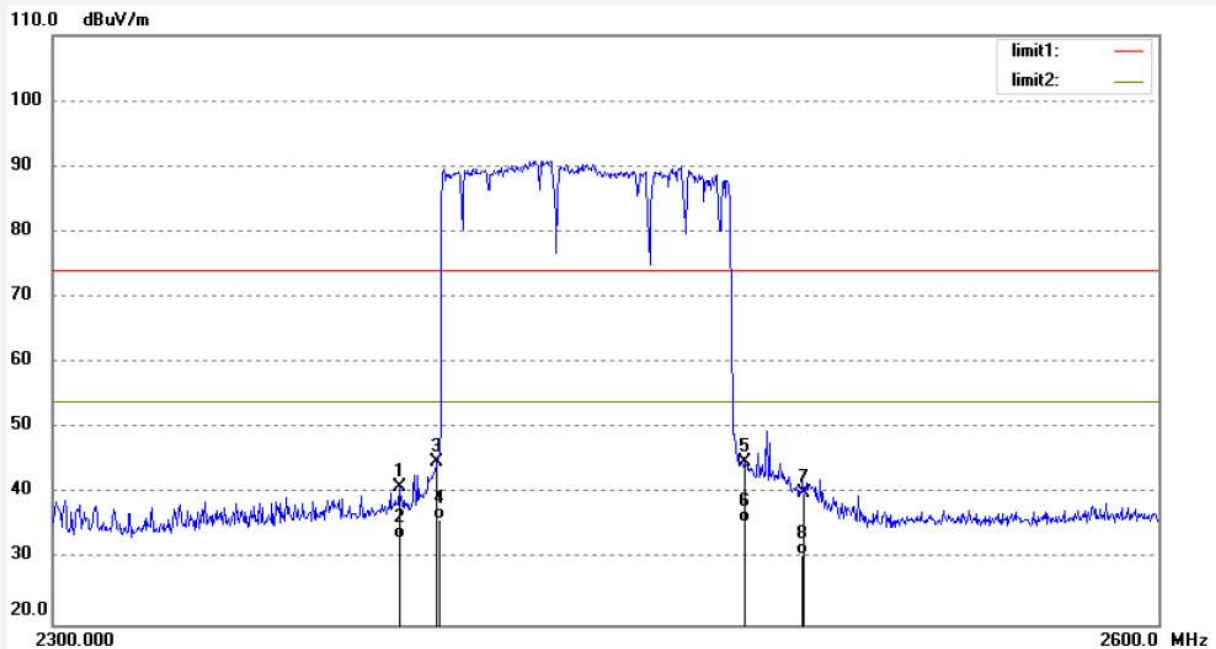
Date: 20/02/21/

Time: 13/15/14

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE2020088



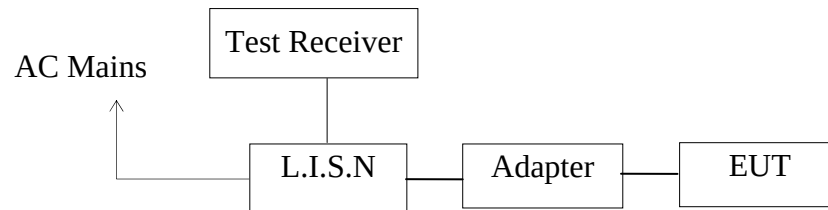
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	47.30	-6.32	40.98	74.00	-33.02	peak	250	302	
2	2390.000	39.45	-6.32	33.13	54.00	-20.87	AVG	200	148	
3	2400.000	51.06	-6.27	44.79	74.00	-29.21	peak	250	93	
4	2400.000	42.31	-6.27	36.04	54.00	-17.96	AVG	200	148	
5	2483.500	50.69	-5.89	44.80	74.00	-29.20	peak	250	92	
6	2483.500	41.45	-5.89	35.56	54.00	-18.44	AVG	200	119	
7	2500.000	45.90	-5.81	40.09	74.00	-33.91	peak	200	360	
8	2500.000	36.45	-5.81	30.64	54.00	-23.36	AVG	200	218	

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

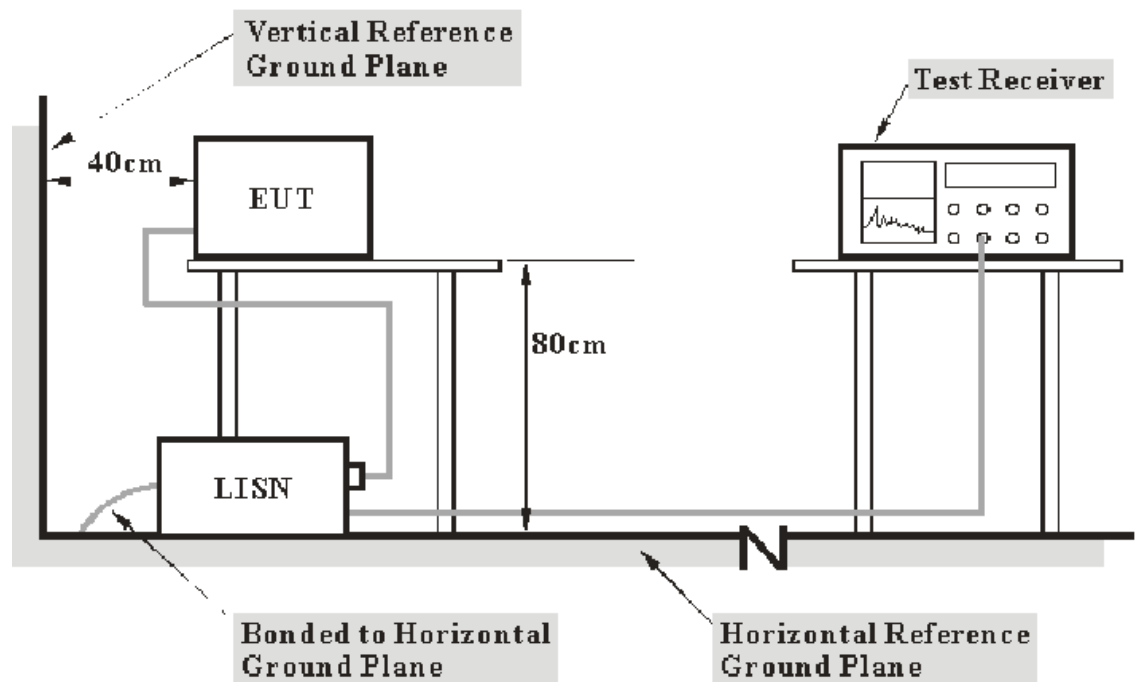
12.AC POWER LINE CONDUCTED EMISSION TEST

12.1.Block Diagram of Test Setup

12.1.1.Block diagram of connection between the EUT and simulators



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 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.Test Results

Pass.

Test Lab: 3m Anechoic chamber

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.

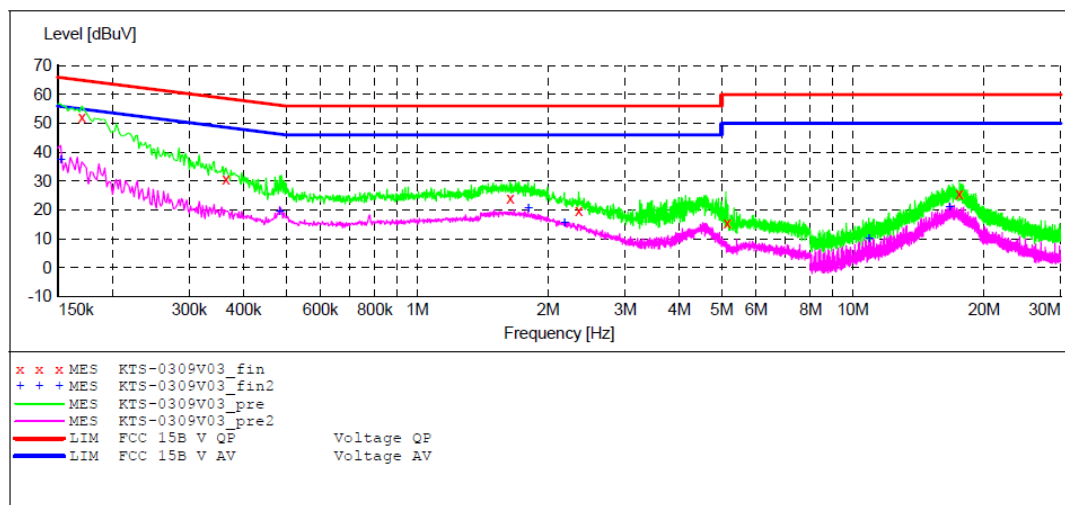
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Bluetooth True Wireless Earbuds M/N: AHS75-ANC
 Manufacturer: Acousycom
 Operating Condition: BT Communication
 Test Site: 2#Shielding Room
 Operator: Ben
 Test Specification: L 120V/60Hz
 Comment: Report NO.: ATE20200088
 Start of Test: 2020-3-9 / 9:04:19

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: "KTS-0309V03_fin"

2020-3-9 9:05

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.170000	52.10	10.8	65	12.9	QP	L1	GND
0.364000	30.50	10.9	59	28.1	QP	L1	GND
1.636000	24.10	11.2	56	31.9	QP	L1	GND
2.350000	19.70	11.3	56	36.3	QP	L1	GND
5.150000	15.60	11.4	60	44.4	QP	L1	GND
17.575000	25.70	11.7	60	34.3	QP	L1	GND

MEASUREMENT RESULT: "KTS-0309V03_fin2"

2020-3-9 9:05

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.152000	37.20	10.8	56	18.7	AV	L1	GND
0.484000	19.50	11.0	46	26.8	AV	L1	GND
1.800000	20.40	11.2	46	25.6	AV	L1	GND
2.175000	15.40	11.3	46	30.6	AV	L1	GND
10.900000	10.00	11.6	50	40.0	AV	L1	GND
16.695000	20.90	11.7	50	29.1	AV	L1	GND

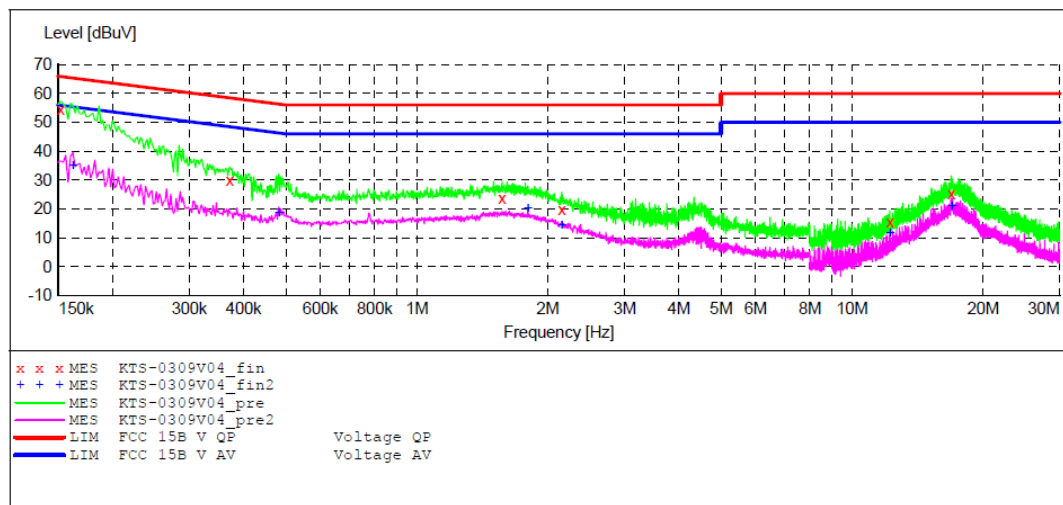
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Bluetooth True Wireless Earbuds M/N: AHS75-ANC
 Manufacturer: Acousycom
 Operating Condition: BT Communication
 Test Site: 2#Shielding Room
 Operator: Ben
 Test Specification: N 120V/60Hz
 Comment: Report NO.: ATE20200088
 Start of Test: 2020-3-9 / 9:06:35

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: "KTS-0309V04_fin"

2020-3-9 9:08

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.152000	54.50	10.8	66	11.4	QP	N	GND
0.372000	29.90	10.9	59	28.6	QP	N	GND
1.570000	23.80	11.2	56	32.2	QP	N	GND
2.155000	19.80	11.3	56	36.2	QP	N	GND
12.225000	15.40	11.6	60	44.6	QP	N	GND
16.920000	25.20	11.7	60	34.8	QP	N	GND

MEASUREMENT RESULT: "KTS-0309V04_fin2"

2020-3-9 9:08

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.162000	35.00	10.8	55	20.4	AV	N	GND
0.482000	18.70	11.0	46	27.6	AV	N	GND
1.800000	20.10	11.2	46	25.9	AV	N	GND
2.155000	14.40	11.3	46	31.6	AV	N	GND
12.225000	11.70	11.6	50	38.3	AV	N	GND
16.935000	20.80	11.7	50	29.2	AV	N	GND

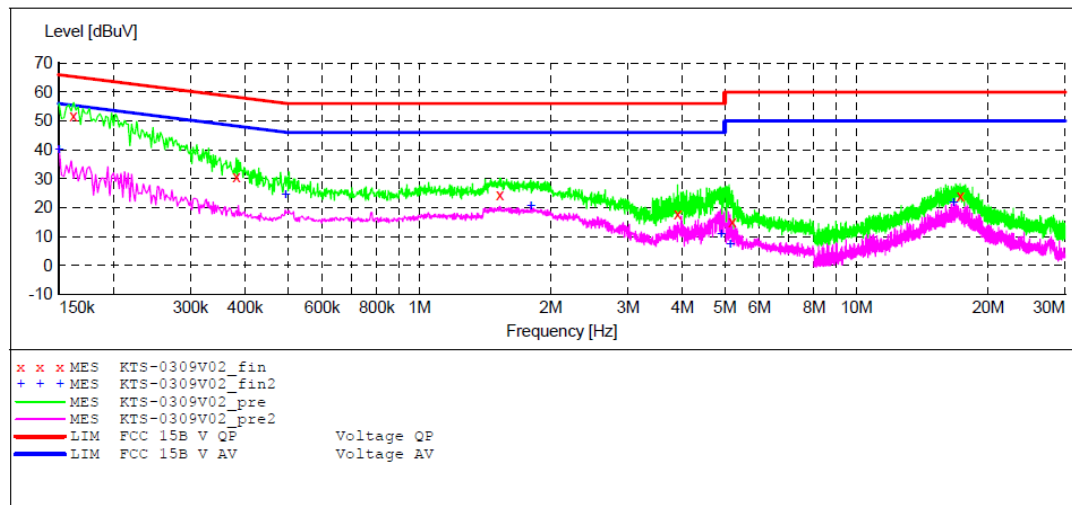
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Bluetooth True Wireless Earbuds M/N: AHS75-ANC
 Manufacturer: Acousycom
 Operating Condition: BT Communication
 Test Site: 2#Shielding Room
 Operator: Ben
 Test Specification: L 240V/60Hz
 Comment: Report NO.: ATE20200088
 Start of Test: 2020-3-9 / 9:01:55

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: "KTS-0309V02_fin"

2020-3-9 9:03

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.162000	51.80	10.8	65	13.6	QP	L1	GND
0.382000	30.50	10.9	58	27.7	QP	L1	GND
1.530000	24.60	11.2	56	31.4	QP	L1	GND
3.900000	17.70	11.4	56	38.3	QP	L1	GND
5.200000	15.10	11.4	60	44.9	QP	L1	GND
17.280000	23.90	11.7	60	36.1	QP	L1	GND

MEASUREMENT RESULT: "KTS-0309V02_fin2"

2020-3-9 9:03

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	39.90	10.8	56	16.1	AV	L1	GND
0.494000	24.40	11.0	46	21.7	AV	L1	GND
1.800000	20.40	11.2	46	25.6	AV	L1	GND
4.900000	10.60	11.4	46	35.4	AV	L1	GND
5.145000	7.30	11.4	50	42.7	AV	L1	GND
16.690000	21.60	11.7	50	28.4	AV	L1	GND

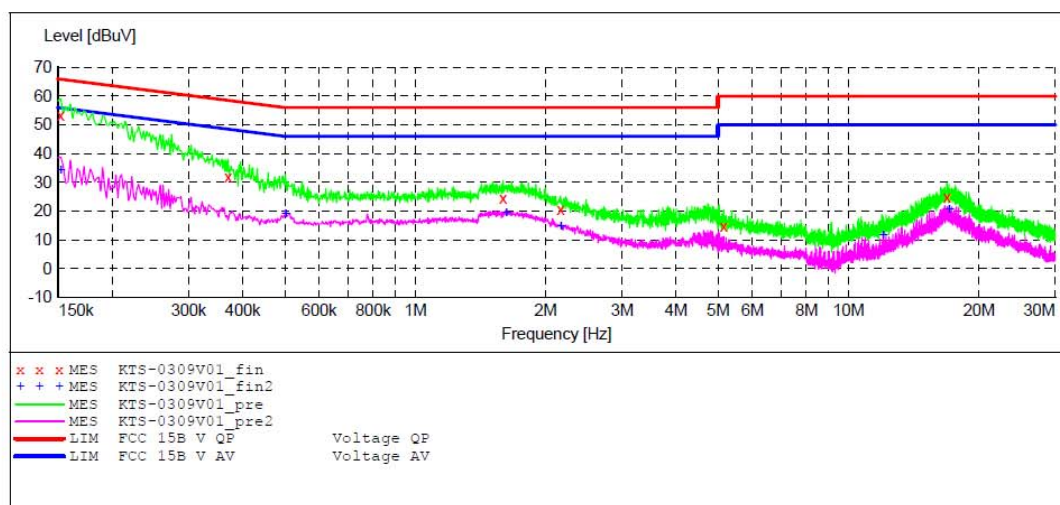
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Bluetooth True Wireless Earbuds M/N:AHS75-ANC
 Manufacturer: Acousycom
 Operating Condition: BT Communication
 Test Site: 2#Shielding Room
 Operator: Ben
 Test Specification: N 240V/60Hz
 Comment: Report NO.:ATE20200088
 Start of Test: 2020-3-9 / 8:58:49

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

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



MEASUREMENT RESULT: "KTS-0309V01_fin"

2020-3-9 9:00

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.152000	53.40	10.8	66	12.5	QP	N	GND
0.370000	31.70	10.9	59	26.8	QP	N	GND
1.596000	24.50	11.2	56	31.5	QP	N	GND
2.165000	20.40	11.3	56	35.6	QP	N	GND
5.150000	14.70	11.4	60	45.3	QP	N	GND
16.870000	25.00	11.7	60	35.0	QP	N	GND

MEASUREMENT RESULT: "KTS-0309V01_fin2"

2020-3-9 9:00

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.152000	34.10	10.8	56	21.8	AV	N	GND
0.502000	18.90	11.0	46	27.1	AV	N	GND
1.624000	19.20	11.2	46	26.8	AV	N	GND
2.170000	14.80	11.3	46	31.2	AV	N	GND
12.030000	11.60	11.6	50	38.4	AV	N	GND
17.085000	20.60	11.7	50	29.4	AV	N	GND

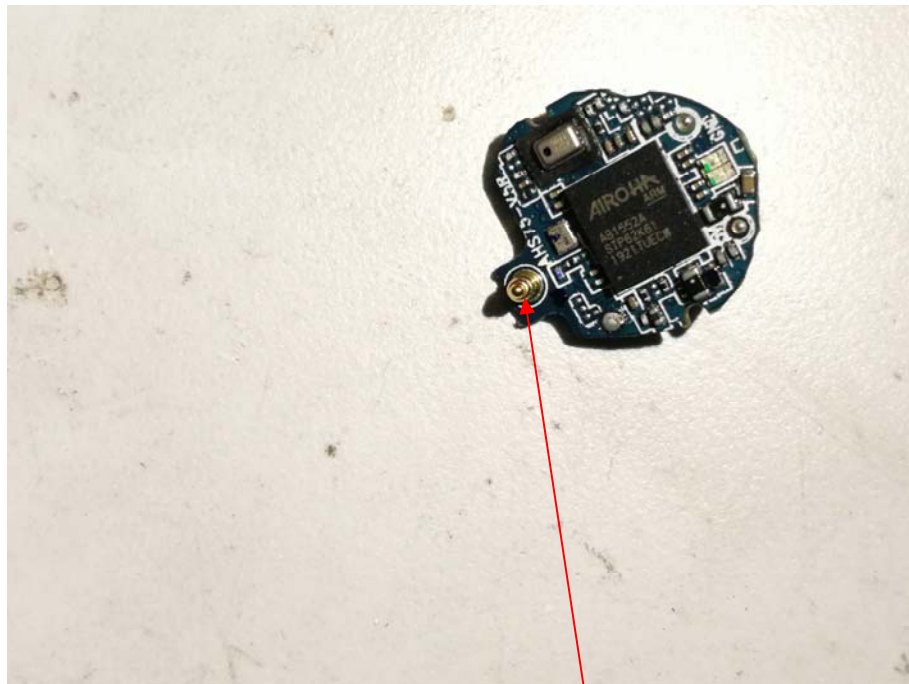
13.ANTENNA REQUIREMENT

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 0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna

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