

APPLICATION CERTIFICATION FCC Part 15C  
On Behalf of  
CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic

Model No.: BTAE-12/6733, BEB002PX\_BK, BEB002PX\_BL, BEB002\_BK, BEB002\_BL,  
CB-BE061

FCC ID: 2AD42-BTAT-12

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Report No. : ATE20160055  
Date of Test : January 30, 2016  
Date of Report : February 1, 2016

## TABLE OF CONTENTS

Description	Page
Test Report Certification	
<b>1. GENERAL INFORMATION .....</b>	<b>5</b>
1.1. Description of Device (EUT).....	5
1.2. Accessory and Auxiliary Equipment.....	5
1.3. Description of Test Facility .....	6
1.4. Measurement Uncertainty.....	6
<b>2. MEASURING DEVICE AND TEST EQUIPMENT .....</b>	<b>7</b>
<b>3. OPERATION OF EUT DURING TESTING .....</b>	<b>8</b>
3.1. Operating Mode .....	8
3.2. Configuration and peripherals .....	8
<b>4. TEST PROCEDURES AND RESULTS .....</b>	<b>9</b>
<b>5. 20DB BANDWIDTH TEST.....</b>	<b>10</b>
5.1. Block Diagram of Test Setup.....	10
5.2. The Requirement For Section 15.247(a)(1).....	10
5.3. EUT Configuration on Measurement .....	10
5.4. Operating Condition of EUT .....	10
5.5. Test Procedure .....	10
5.6. Test Result .....	11
<b>6. CARRIER FREQUENCY SEPARATION TEST.....</b>	<b>17</b>
6.1. Block Diagram of Test Setup.....	17
6.2. The Requirement For Section 15.247(a)(1).....	17
6.3. EUT Configuration on Measurement .....	17
6.4. Operating Condition of EUT .....	17
6.5. Test Procedure .....	18
6.6. Test Result .....	18
<b>7. NUMBER OF HOPPING FREQUENCY TEST .....</b>	<b>24</b>
7.1. Block Diagram of Test Setup.....	24
7.2. The Requirement For Section 15.247(a)(1)(iii).....	24
7.3. EUT Configuration on Measurement .....	24
7.4. Operating Condition of EUT .....	24
7.5. Test Procedure .....	24
7.6. Test Result .....	25
<b>8. DWELL TIME TEST .....</b>	<b>27</b>
8.1. Block Diagram of Test Setup.....	27
8.2. The Requirement For Section 15.247(a)(1)(iii).....	27
8.3. EUT Configuration on Measurement .....	27
8.4. Operating Condition of EUT .....	27
8.5. Test Procedure .....	27
8.6. Test Result .....	28
<b>9. MAXIMUM PEAK OUTPUT POWER TEST .....</b>	<b>43</b>
9.1. Block Diagram of Test Setup.....	43
9.2. The Requirement For Section 15.247(b)(1).....	43
9.3. EUT Configuration on Measurement .....	43
9.4. Operating Condition of EUT .....	43

9.5.	Test Procedure .....	43
9.6.	Test Result .....	44
<b>10.</b>	<b>RADIATED EMISSION TEST .....</b>	<b>50</b>
10.1.	Block Diagram of Test Setup.....	50
10.2.	The Limit For Section 15.247(d) .....	51
10.3.	Restricted bands of operation .....	52
10.4.	Configuration of EUT on Measurement .....	52
10.5.	Test Procedure .....	53
10.6.	The Field Strength of Radiation Emission Measurement Results .....	53
<b>11.</b>	<b>BAND EDGE COMPLIANCE TEST .....</b>	<b>66</b>
11.1.	Block Diagram of Test Setup.....	66
11.2.	The Requirement For Section 15.247(d) .....	66
11.3.	EUT Configuration on Measurement .....	66
11.4.	Operating Condition of EUT .....	66
11.5.	Test Procedure .....	67
11.6.	Test Result .....	67
<b>12.</b>	<b>AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A) ..</b>	<b>90</b>
12.1.	Block Diagram of Test Setup.....	90
12.2.	Power Line Conducted Emission Measurement Limits.....	90
12.3.	Configuration of EUT on Measurement .....	90
12.4.	Operating Condition of EUT .....	90
12.5.	Test Procedure .....	91
12.6.	Power Line Conducted Emission Measurement Results .....	91
<b>13.</b>	<b>ANTENNA REQUIREMENT .....</b>	<b>98</b>
13.1.	The Requirement .....	98
13.2.	Antenna Construction .....	98

## Test Report Certification

Applicant : CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.  
Manufacturer : CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.  
EUT Description : BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic  
Model No. : BTAE-12/6733, BEB002PX\_BK, BEB002PX\_BL, BEB002\_BK,  
              BEB002\_BL, CB-BE061  
Trade Mark :   
              

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247: 2015**  
**ANSI C63.10: 2013**

The EUT was tested according to DTS test procedure of KDB558074 D01 DTS Meas Guidance v03r03 June 2015 for compliance to FCC 47CFR 15.247 requirements

The device described above is tested by 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 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.

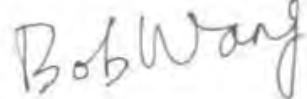
This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test :  
Date of Report:

January 30, 2016

February 1, 2016

Prepared by :



(Bob Wang, Engineer)

Approved & Authorized Signer :



(Sean Liu, Manager)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

EUT : BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic

Model Number : BTAE-12/6733, BEB002PX\_BK, BEB002PX\_BL, BEB002\_BK, BEB002\_BL, CB-BE061  
(Note: We hereby state that these models are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement. Therefore only model BTAE-12/6733 is tested for EMC tests.)

Bluetooth version : BT 3.0

Frequency Range : 2402MHz-2480MHz

Number of Channels : 79

Antenna Gain : 0dBi

Antenna type : PCB Antenna

Power Supply : DC 3.7V & DC 5V(Power by USB port)

Modulation mode : GFSK,  $\pi/4$  DQPSK, 8DPSK

Applicant : CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

Address : Rm 1701, Zhuoyue Building, Fuhua Yi Rd., Futian Central Zone, Shenzhen, China.

Manufacuter : CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

Address : Rm 1701, Zhuoyue Building, Fuhua Yi Rd., Futian Central Zone, Shenzhen, China.

Date of sample received : January 25, 2016

Date of Test : January 30, 2016

### 1.2. Accessory and Auxiliary Equipment

PC                      Manufacturer: LENOVO  
                          M/N: 4290-RT8  
                          S/N: R9-FW93G 11/08

### 1.3.Description of Test Facility

EMC Lab

: Accredited by TUV Rheinland Shenzhen

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-2

Accredited by China National Accreditation Committee  
for Laboratories

The Certificate Registration Number is L3193

Name of Firm

: ACCURATE TECHNOLOGY CO. LTD

Site Location

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

### 1.4.Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2  
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2  
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2  
(Above 1GHz)

## 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. 9, 2016	Jan. 10, 2016
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 9, 2016	Jan. 10, 2016
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 9, 2016	Jan. 10, 2016
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 9, 2016	Jan. 10, 2016
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 14, 2016	Jan. 14, 2016
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 14, 2016	Jan. 14, 2016
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 14, 2016	Jan. 14, 2016
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 14, 2016	Jan. 14, 2016
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 9, 2016	Jan. 10, 2016
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 9, 2016	Jan. 10, 2016
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 9, 2016	Jan. 10, 2016
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 9, 2016	Jan. 10, 2016

### 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

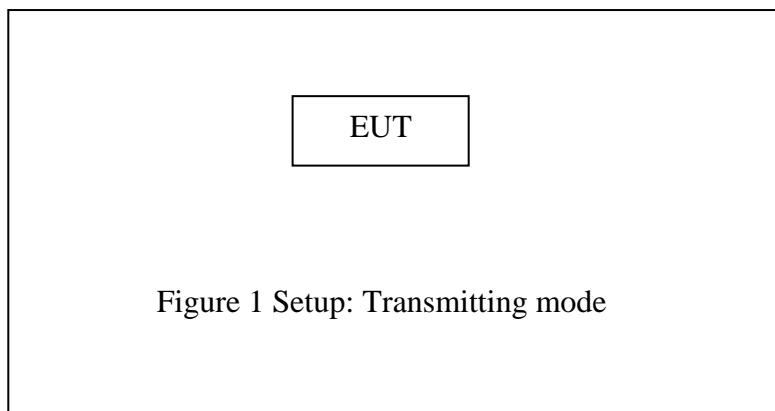


Figure 1 Setup: Transmitting mode

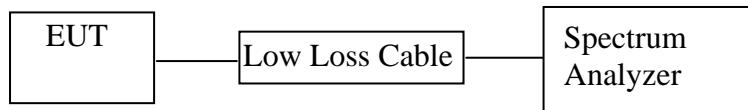
(EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic)

## 4. TEST PROCEDURES AND RESULTS

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

## 5. 20DB BANDWIDTH TEST

### 5.1. Block Diagram of Test Setup



(EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic)

### 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.

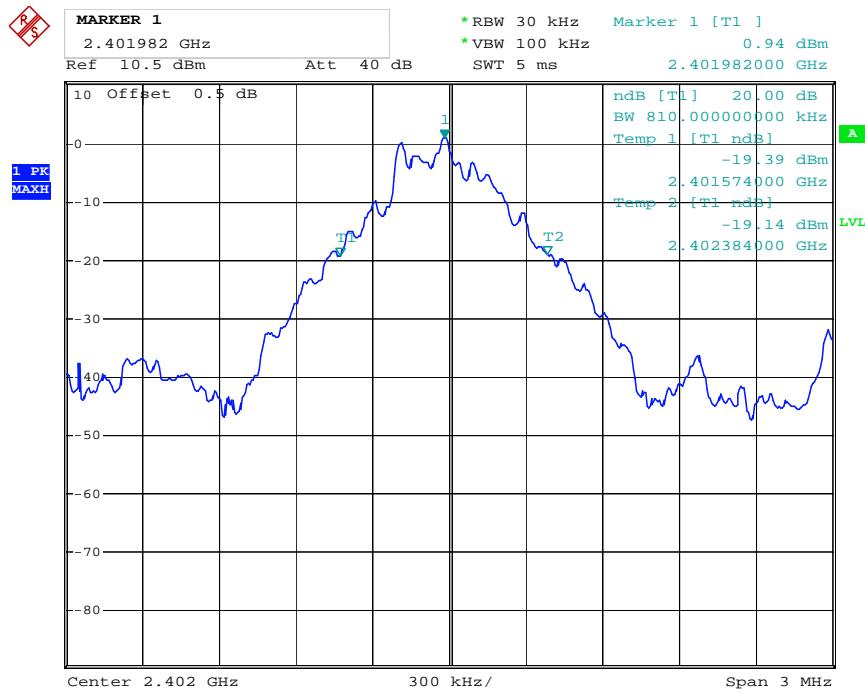
## 5.6. Test Result

Channel	Frequency (MHz)	GFSK 20dB Bandwidth (MHz)	$\Pi/4$ -DQPSK 20dB Bandwidth (MHz)	8DPSK 20dB Bandwidth (MHz)	Result
Low	2402	0.810	1.260	1.272	Pass
Middle	2441	0.810	1.260	1.266	Pass
High	2480	0.882	1.260	1.266	Pass

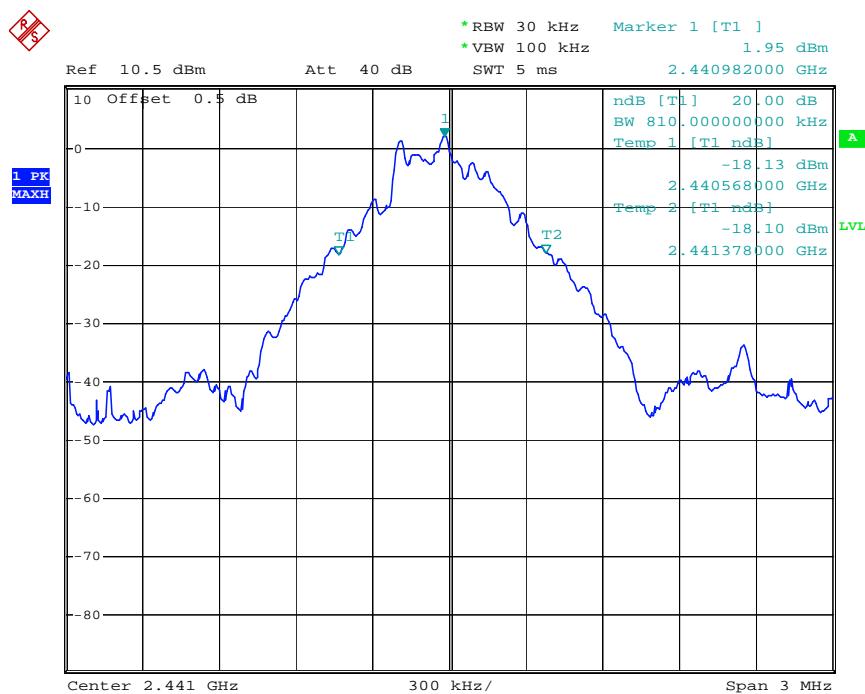
The spectrum analyzer plots are attached as below.

## GFSK Mode

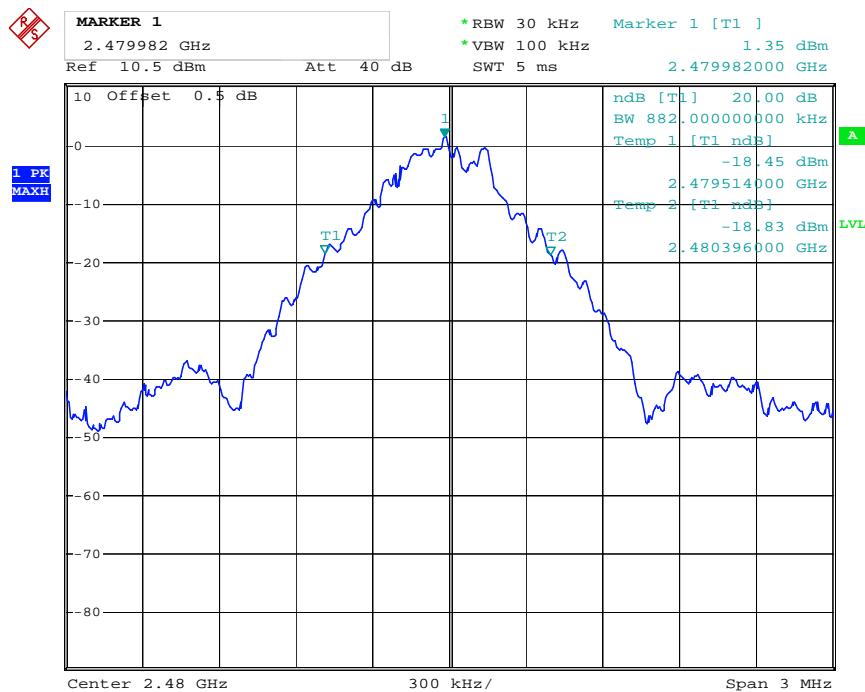
## Low channel



## Middle channel

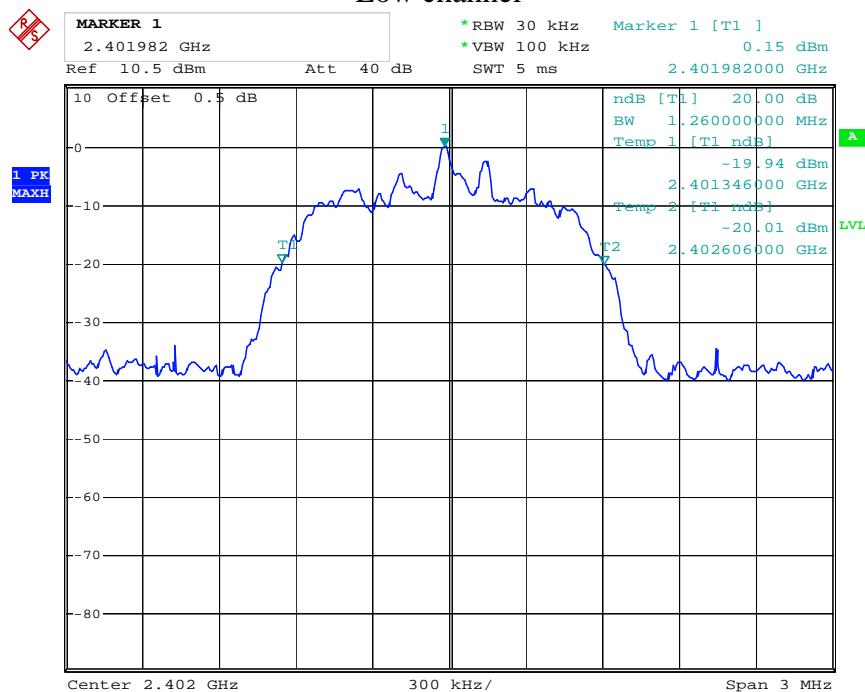


## High channel

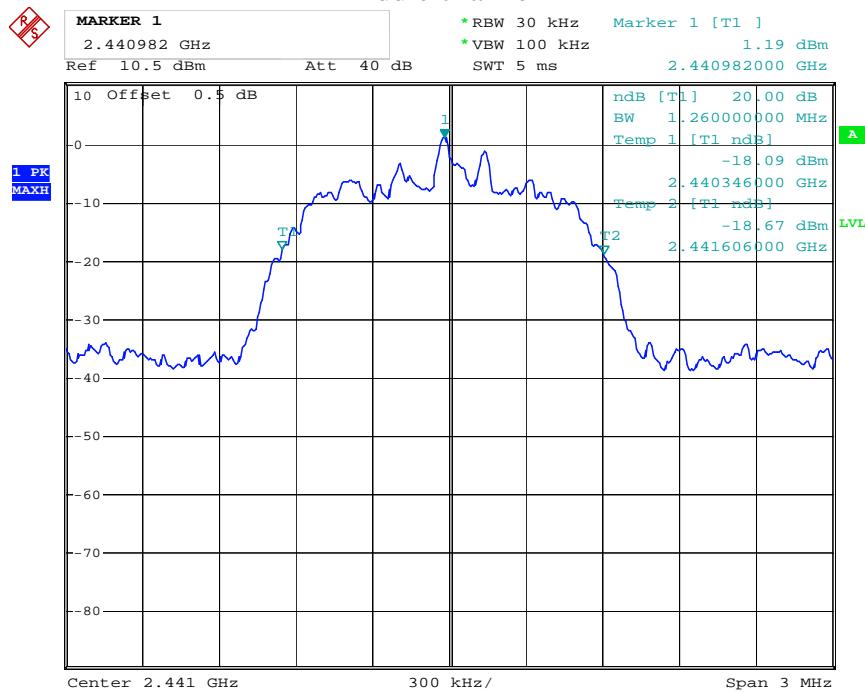


## Pi/4-DQPSK Mode

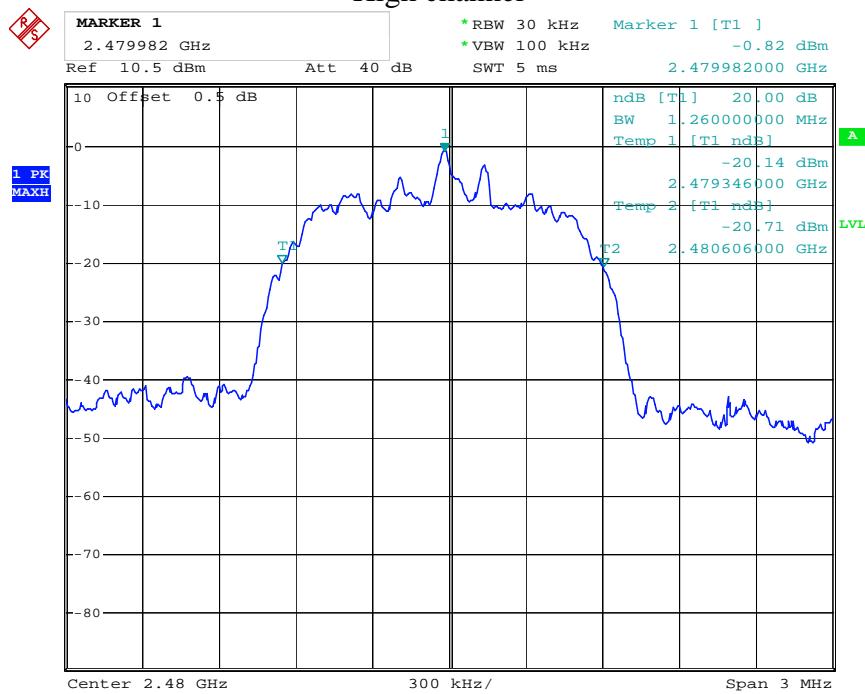
## Low channel



## Middle channel

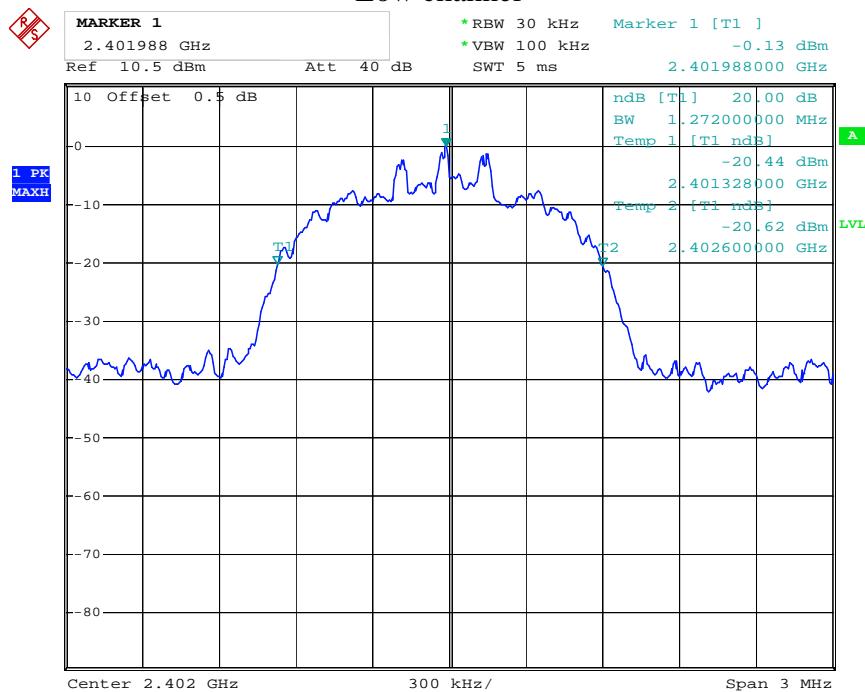


## High channel

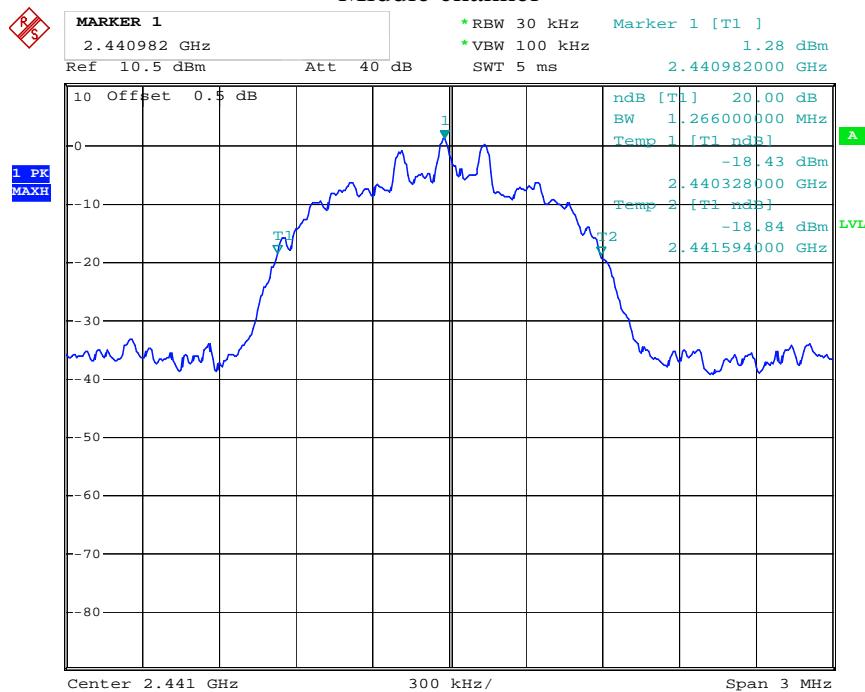


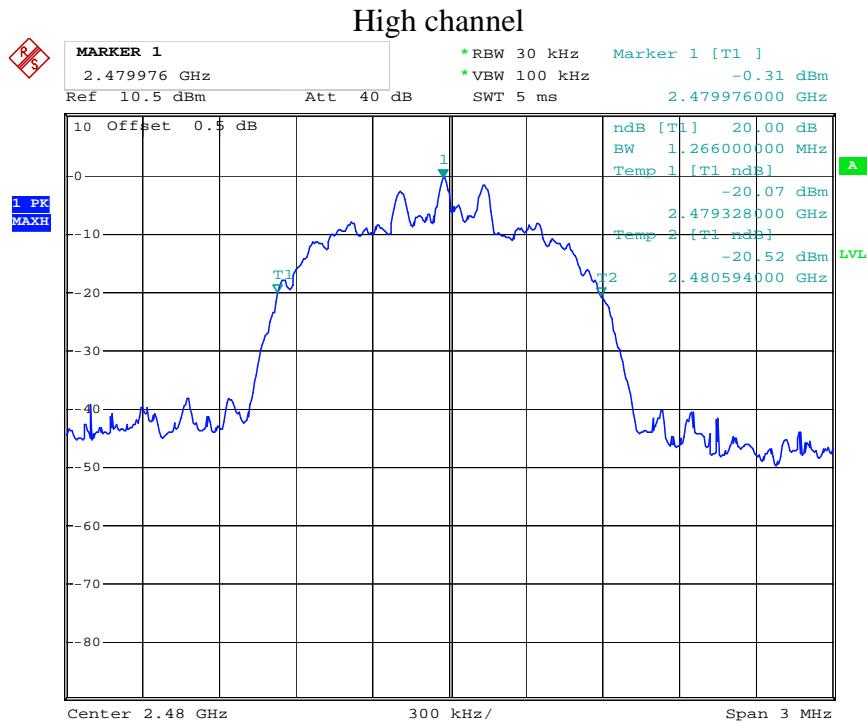
## 8DPSK Mode

Low channel



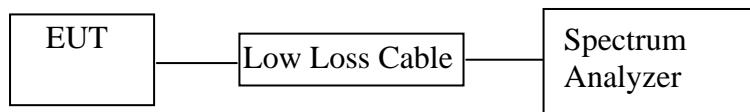
Middle channel





## 6. CARRIER FREQUENCY SEPARATION TEST

### 6.1. Block Diagram of Test Setup



(EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic)

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

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

### 6.3. EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

## 6.5. Test Procedure

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

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

### GFSK

Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.000	25KHz or 20dB bandwidth	PASS
	2403			
Middle	2440	1.004	25KHz or 20dB bandwidth	PASS
	2441			
High	2479	1.008	25KHz or 20dB bandwidth	PASS
	2480			

### $\Pi/4$ -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	1.014	25KHz or 2/3*20dB bandwidth	PASS
	2480			

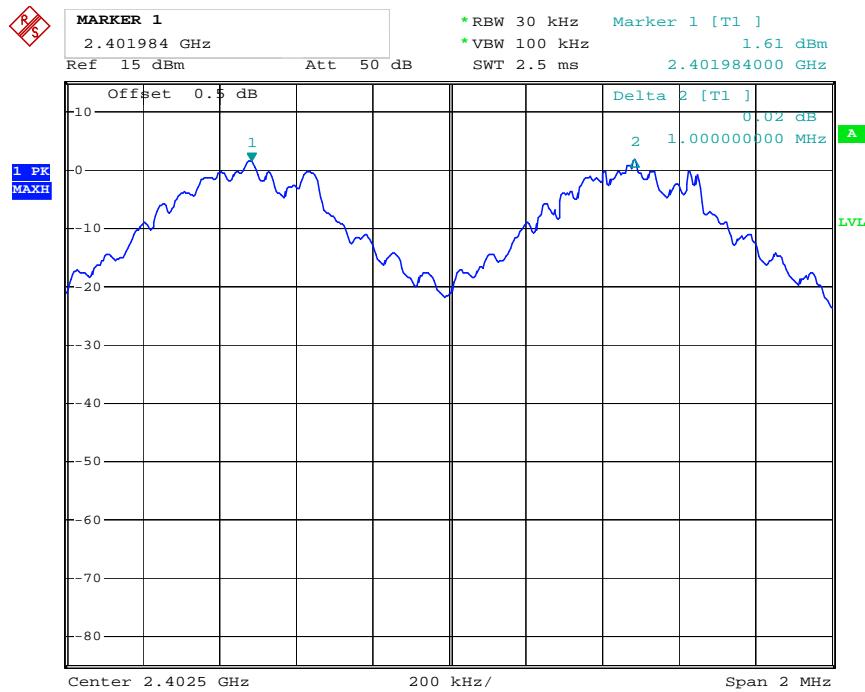
### 8DPSK

Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.002	25KHz or 2/3*20dB bandwidth	PASS
	2403			
Middle	2440	1.002	25KHz or 2/3*20dB bandwidth	PASS
	2441			
High	2479	1.014	25KHz or 2/3*20dB bandwidth	PASS
	2480			

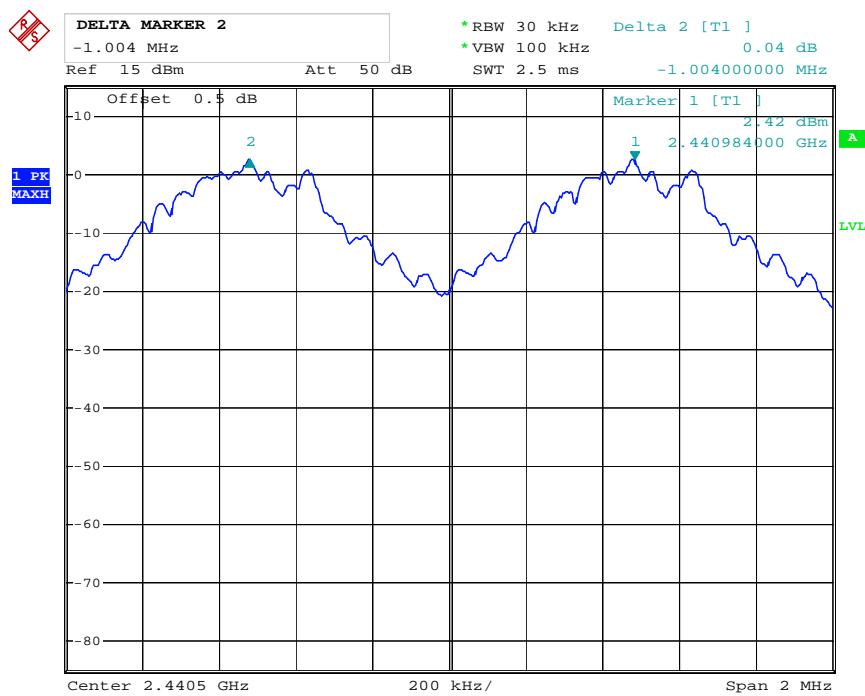
The spectrum analyzer plots are attached as below.

## GFSK Mode

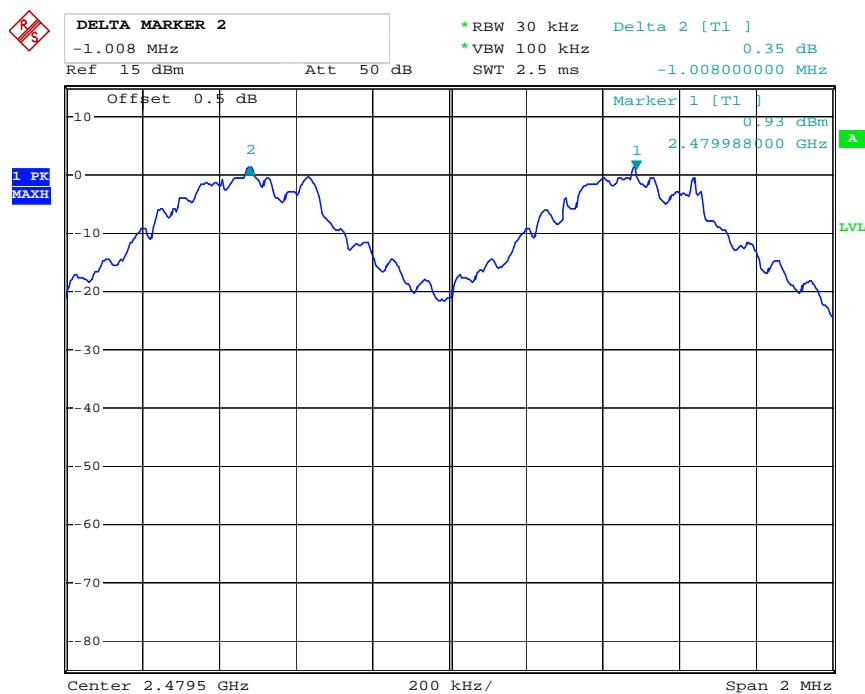
## Low channel



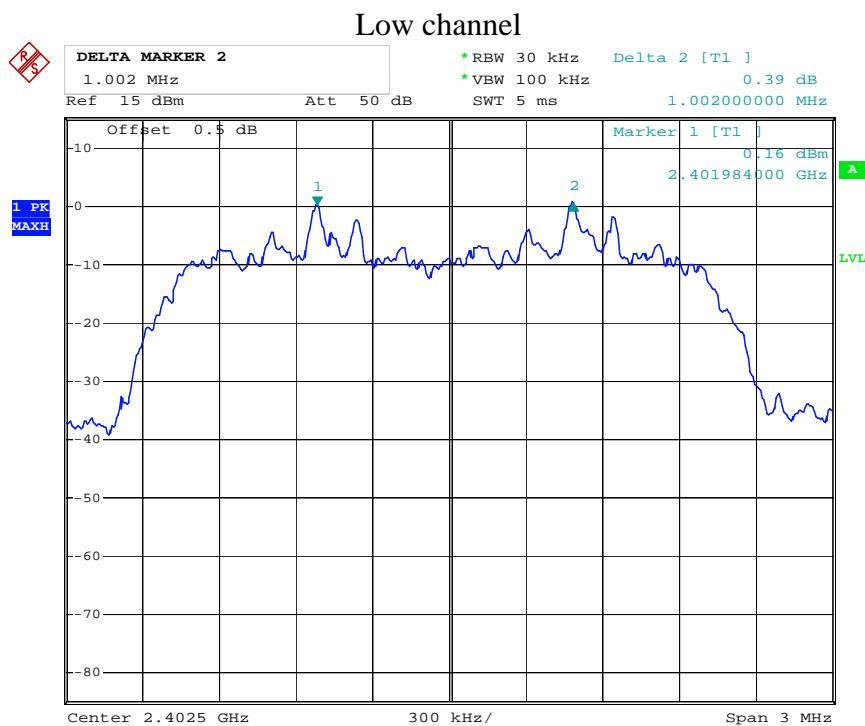
## Middle channel



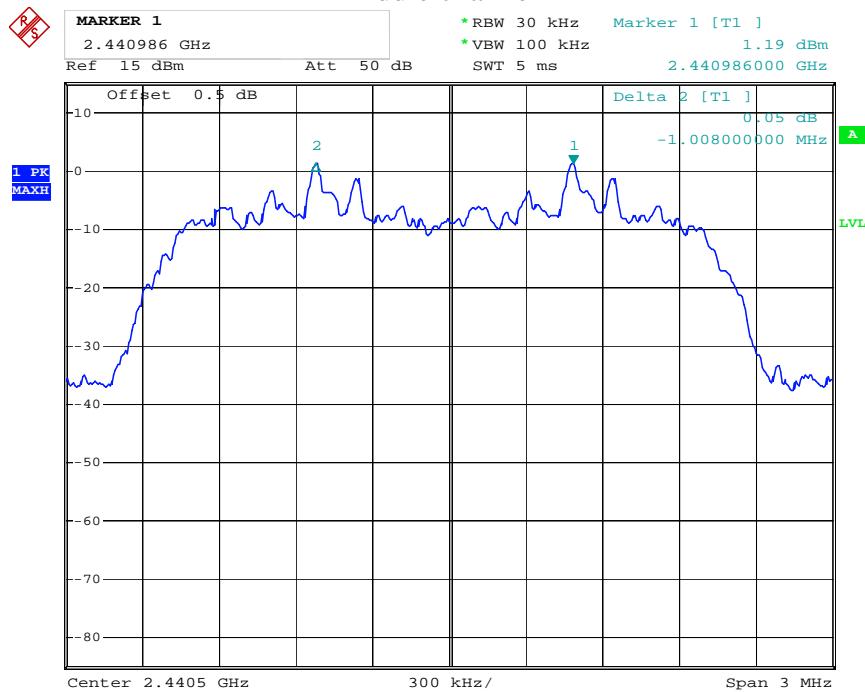
## High channel



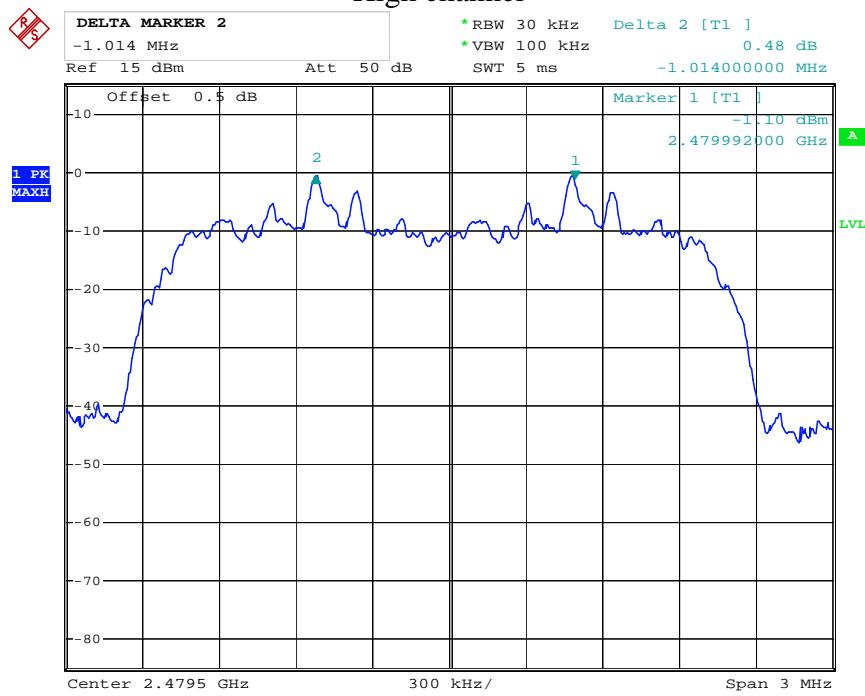
## Pi/4-DQPSK Mode



## Middle channel

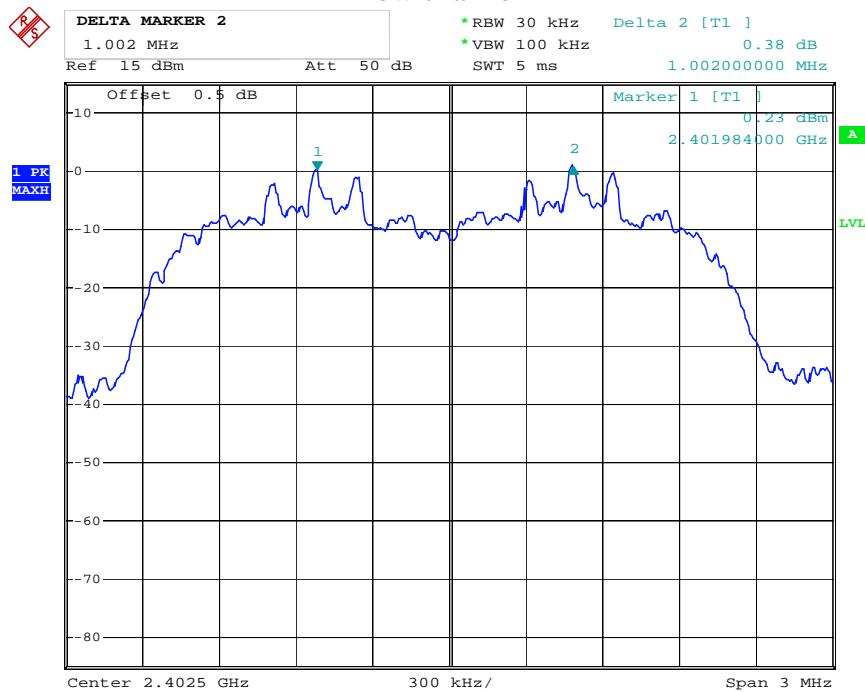


## High channel

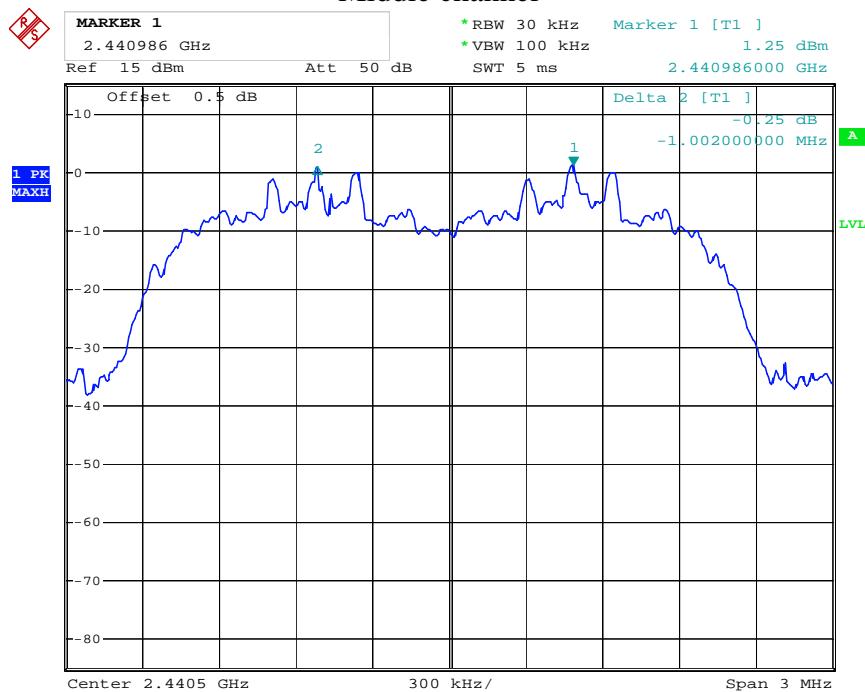


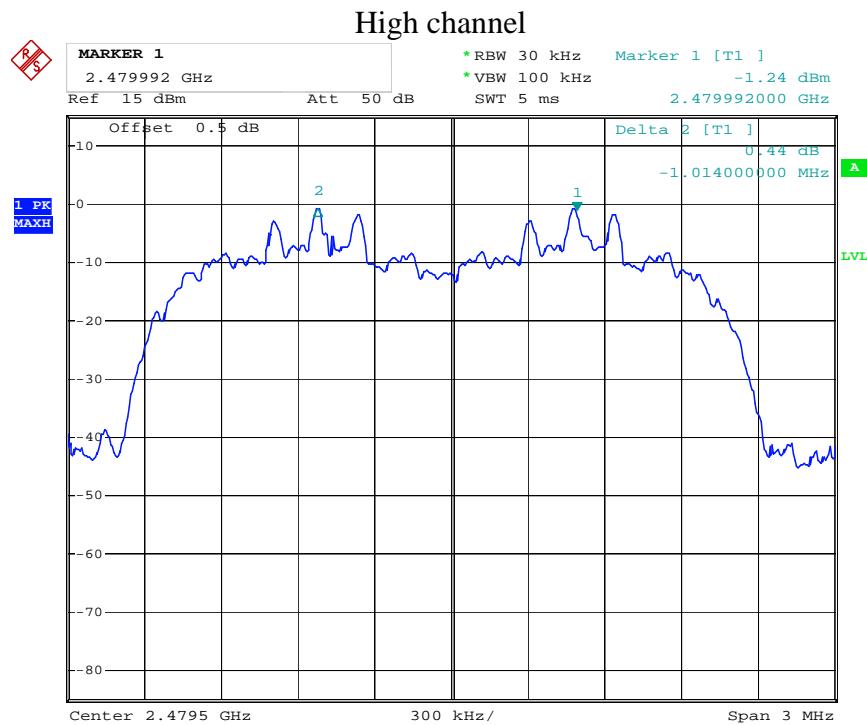
## 8DPSK Mode

## Low channel



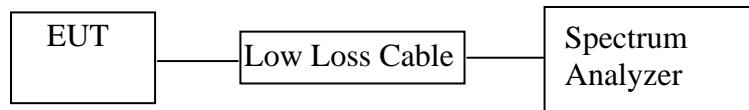
## Middle channel





## 7. NUMBER OF HOPPING FREQUENCY TEST

### 7.1. Block Diagram of Test Setup



(EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic)

### 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.

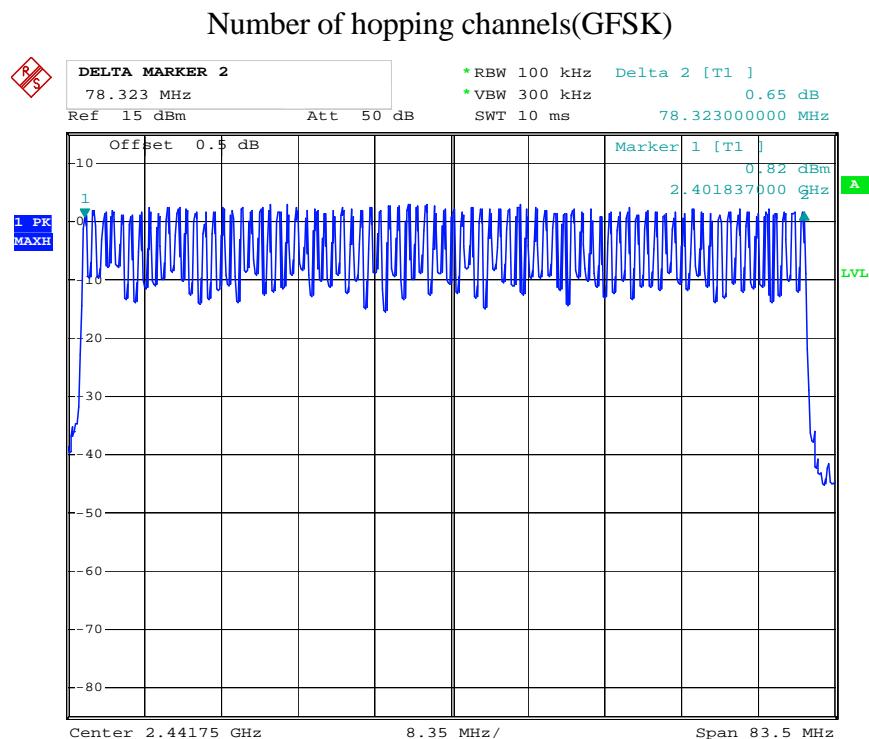
7.5.2. Set the spectrum analyzer as Span=83.5MHz, RBW=100 kHz, VBW=300 kHz.

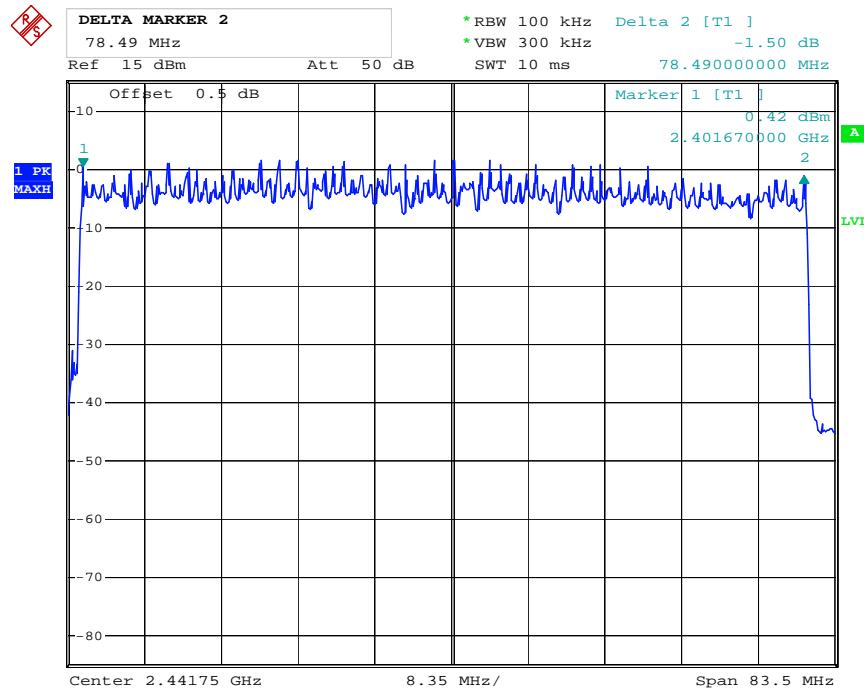
7.5.3. Max hold, view and count how many channel in the band.

## 7.6. Test Result

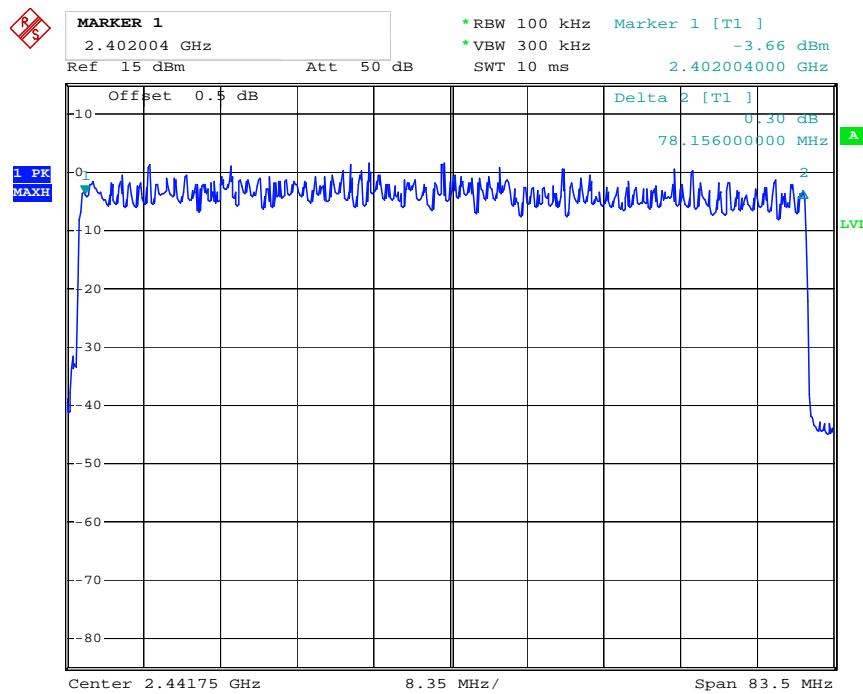
Total number of hopping channel	Measurement result(CH)	Limit(CH)
	79	≥15

The spectrum analyzer plots are attached as below.



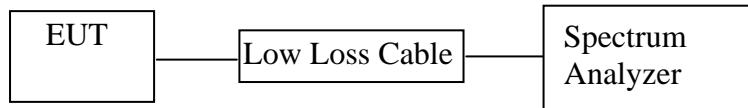
Number of hopping channels( $\Pi/4$ -DQPSK)

## Number of hopping channels(8DPSK)



## 8. DWELL TIME TEST

### 8.1. Block Diagram of Test Setup



(EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic)

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

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

### 8.3. EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

### 8.5. Test Procedure

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

8.5.2. Set center frequency of spectrum analyzer = operating frequency.

8.5.3. Set the spectrum analyzer as RBW=1MHz, VBW=3MHz, Span=0Hz, Adjust

Sweep=5ms, 10ms, 15ms. Get the pulse time.

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

## 8.6. Test Result

### GFSK Mode

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2402	0.442	141.44	400
	2441	0.442	141.44	400
	2480	0.438	140.16	400
A period transmit time = $0.4 \times 79 = 31.6$		Dwell time = pulse time $\times (1600/(2*79)) \times 31.6$		
DH3	2402	1.728	276.48	400
	2441	1.757	281.12	400
	2480	1.743	278.88	400
A period transmit time = $0.4 \times 79 = 31.6$		Dwell time = pulse time $\times (1600/(4*79)) \times 31.6$		
DH5	2402	3.004	320.43	400
	2441	3.025	322.67	400
	2480	2.960	315.73	400
A period transmit time = $0.4 \times 79 = 31.6$		Dwell time = pulse time $\times (1600/(6*79)) \times 31.6$		

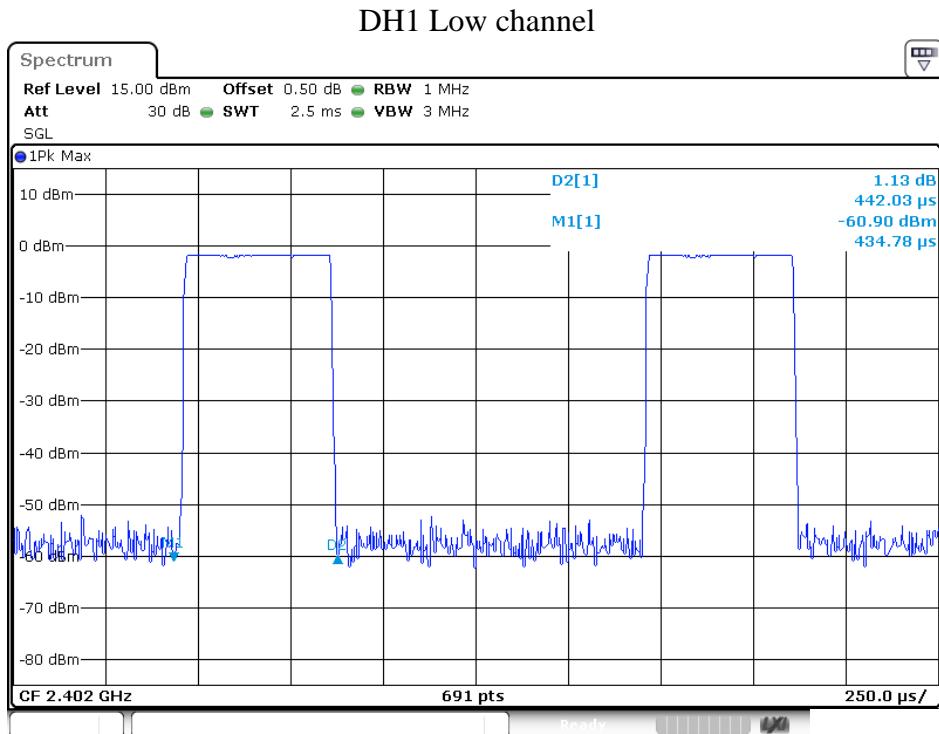
### $\Pi/4$ -DQPSK

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2402	0.442	141.44	400
	2441	0.449	143.68	400
	2480	0.442	141.44	400
A period transmit time = $0.4 \times 79 = 31.6$		Dwell time = pulse time $\times (1600/(2*79)) \times 31.6$		
DH3	2402	1.746	279.36	400
	2441	1.775	284.00	400
	2480	1.732	277.12	400
A period transmit time = $0.4 \times 79 = 31.6$		Dwell time = pulse time $\times (1600/(4*79)) \times 31.6$		
DH5	2402	3.058	326.19	400
	2441	3.058	326.19	400
	2480	3.058	326.19	400
A period transmit time = $0.4 \times 79 = 31.6$		Dwell time = pulse time $\times (1600/(6*79)) \times 31.6$		

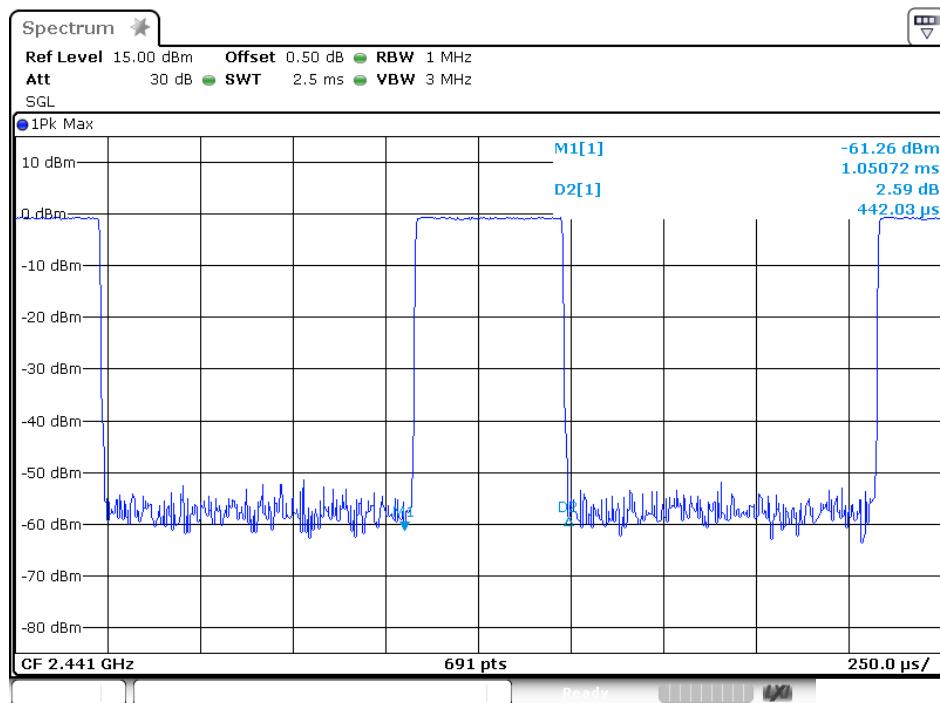
## 8DPSK Mode

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2402	0.449	143.68	400
	2441	0.463	148.16	400
	2480	0.449	143.68	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2*79)) \times 31.6$				
DH3	2402	1.732	277.12	400
	2441	1.732	277.12	400
	2480	1.746	279.36	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4*79)) \times 31.6$				
DH5	2402	3.036	323.84	400
	2441	2.993	319.25	400
	2480	3.036	323.84	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6*79)) \times 31.6$				

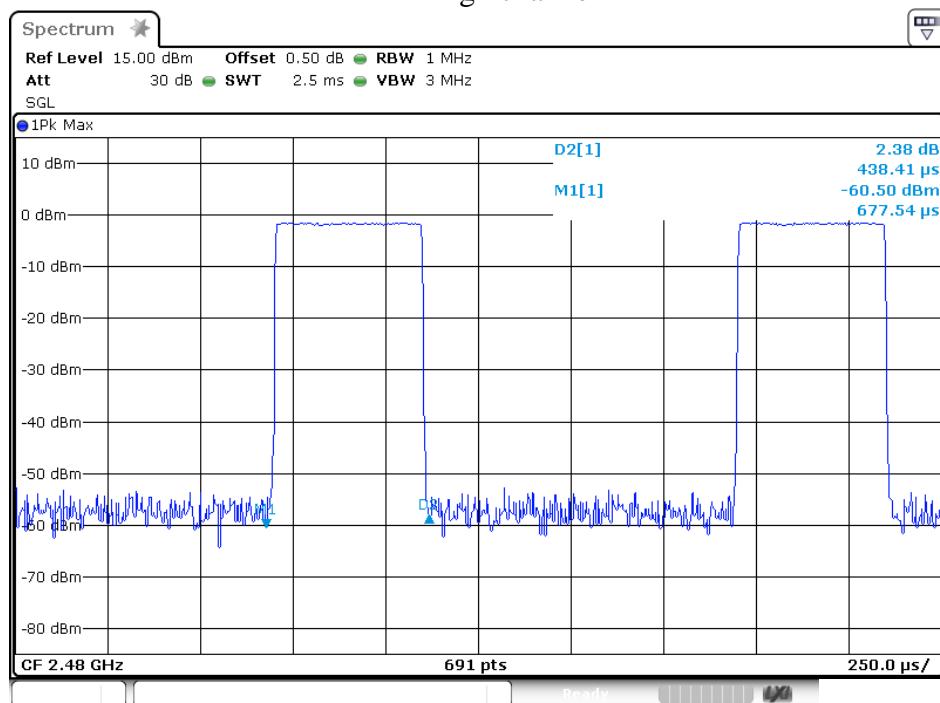
The spectrum analyzer plots are attached as below.



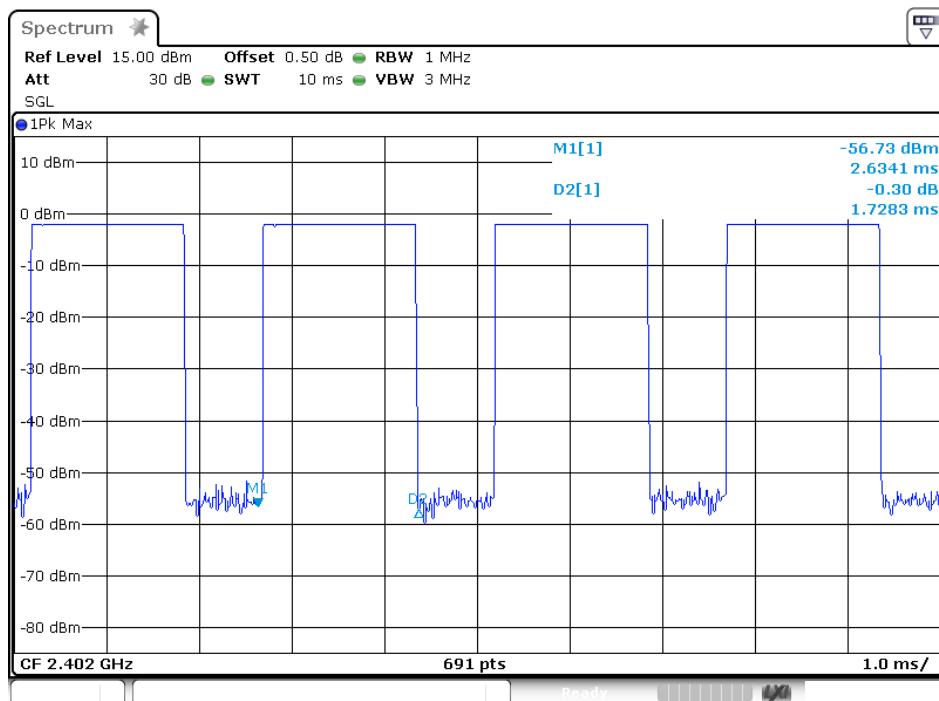
## DH1 Middle channel



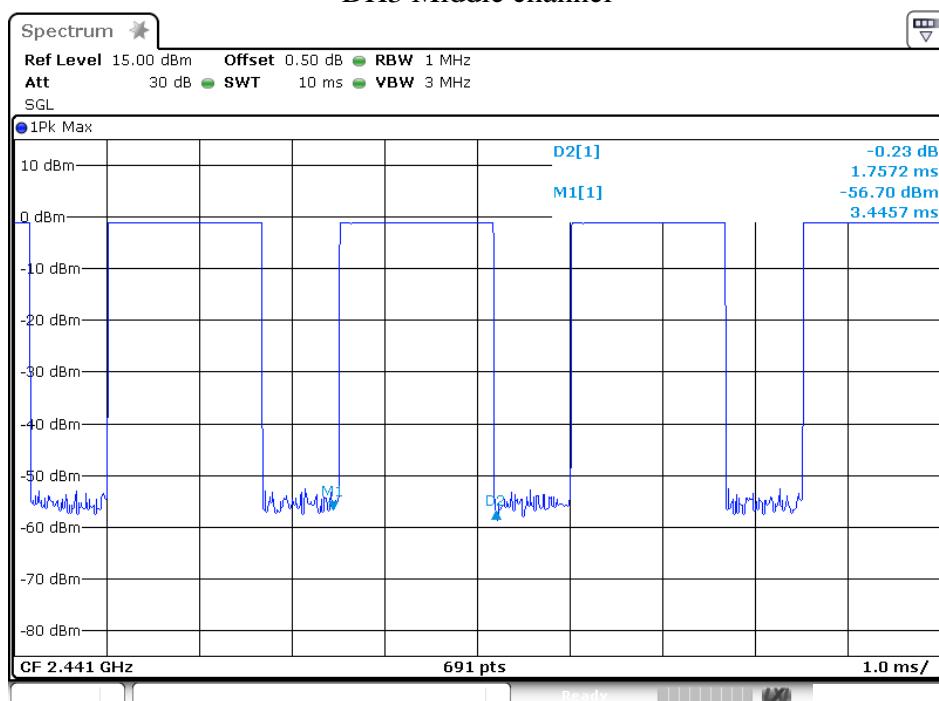
## DH1 High channel



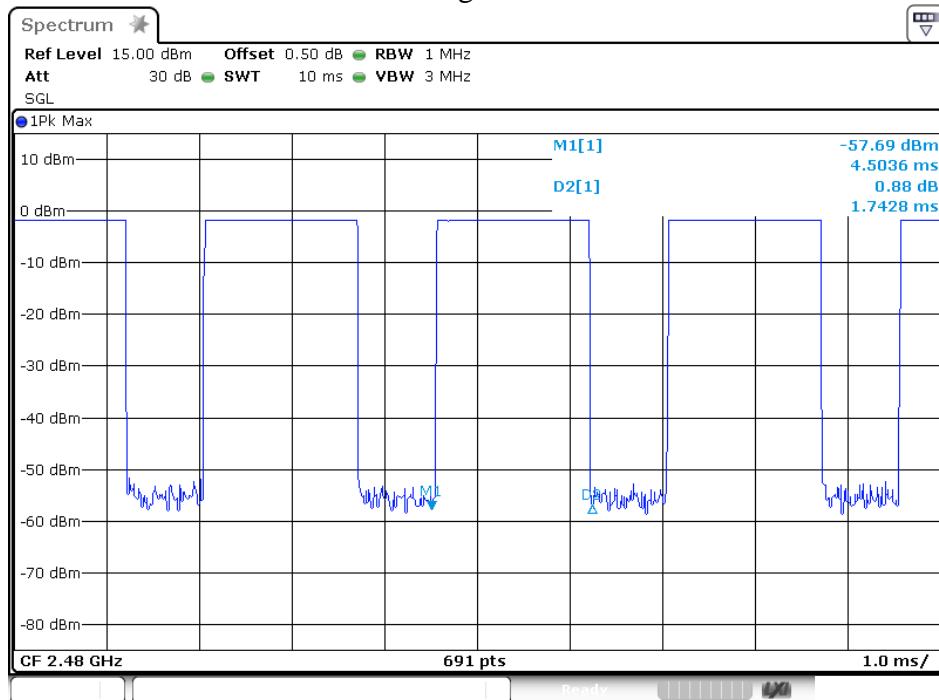
## DH3 Low channel



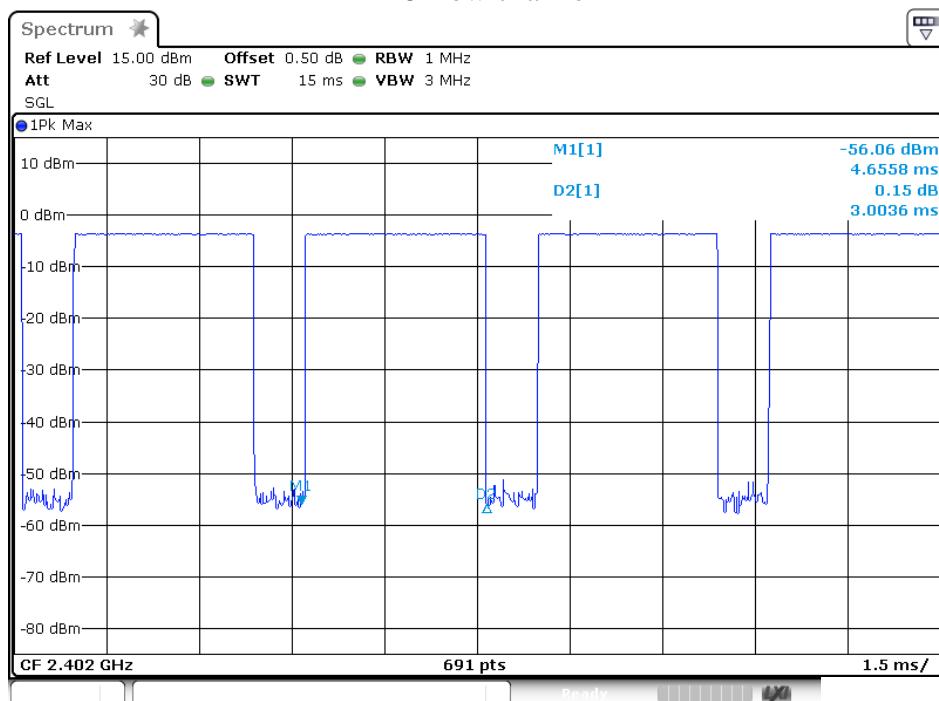
## DH3 Middle channel



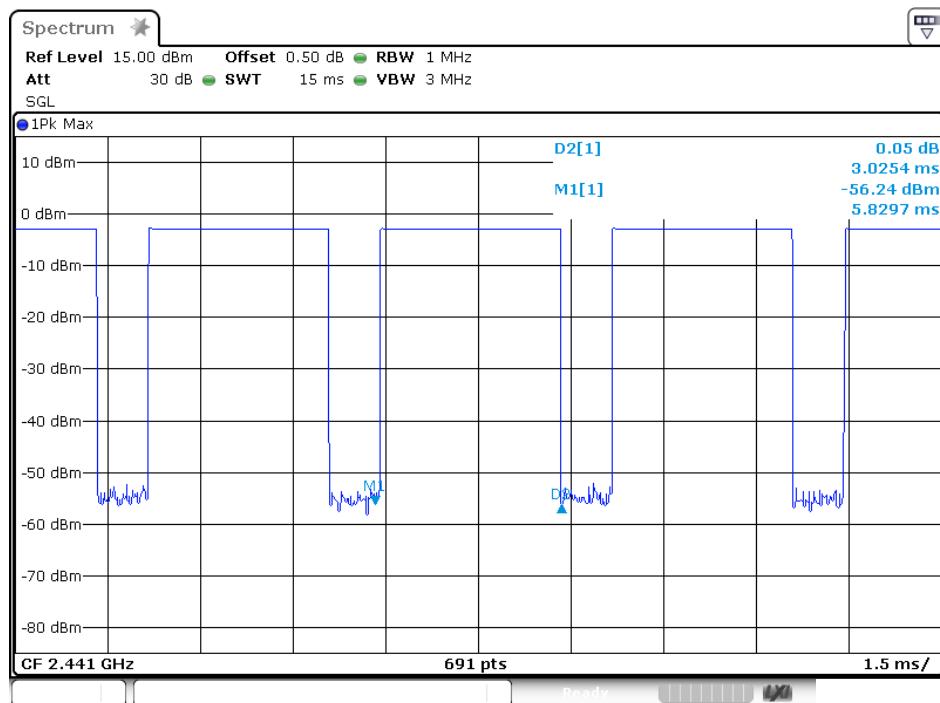
## DH3 High channel



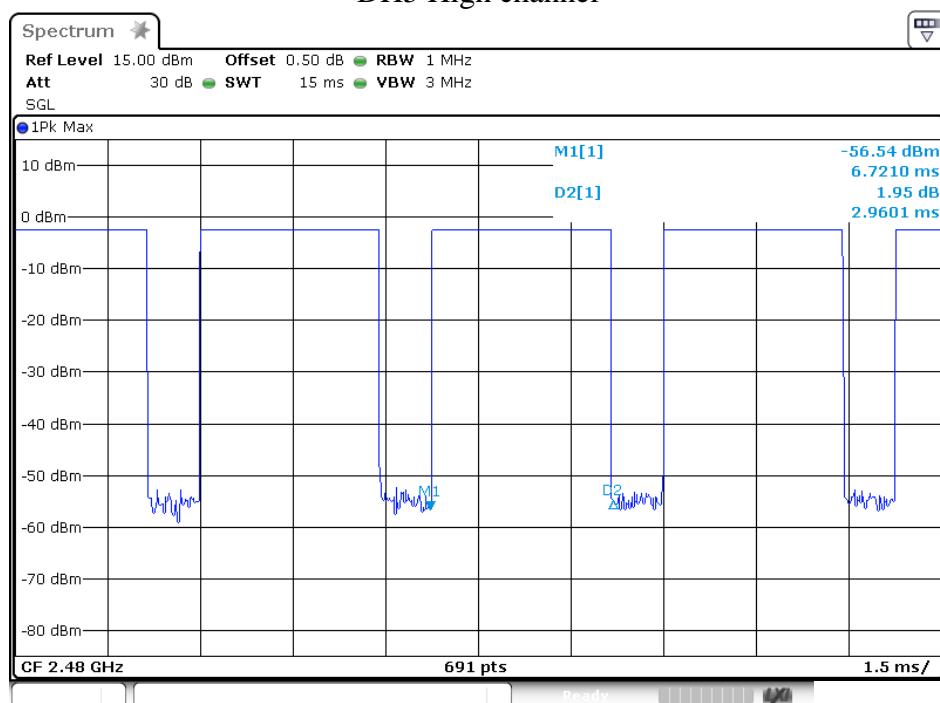
## DH5 Low channel



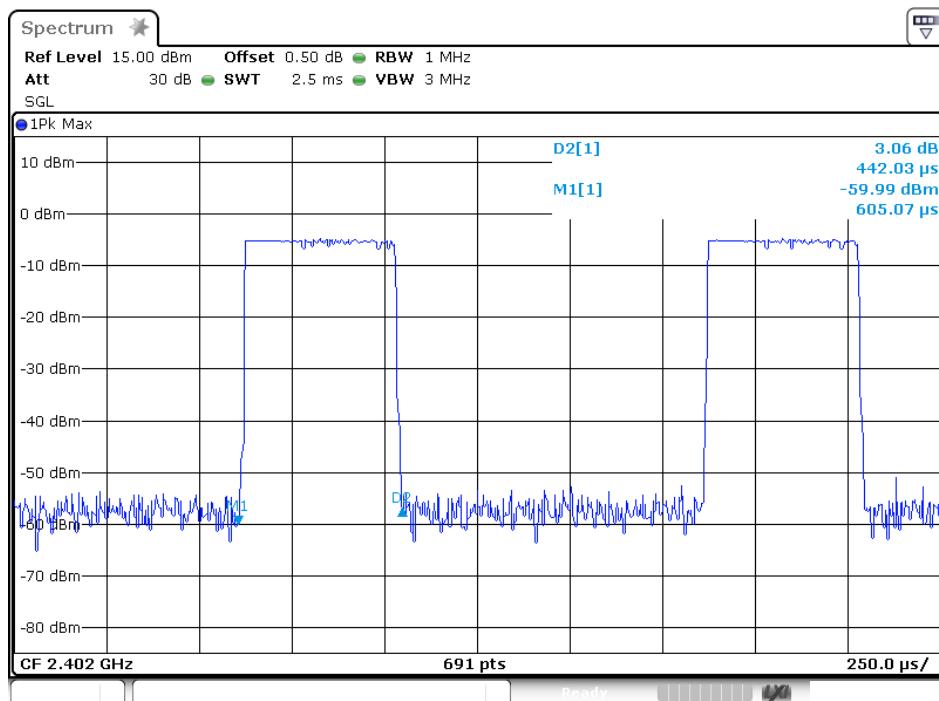
## DH5 Middle channel



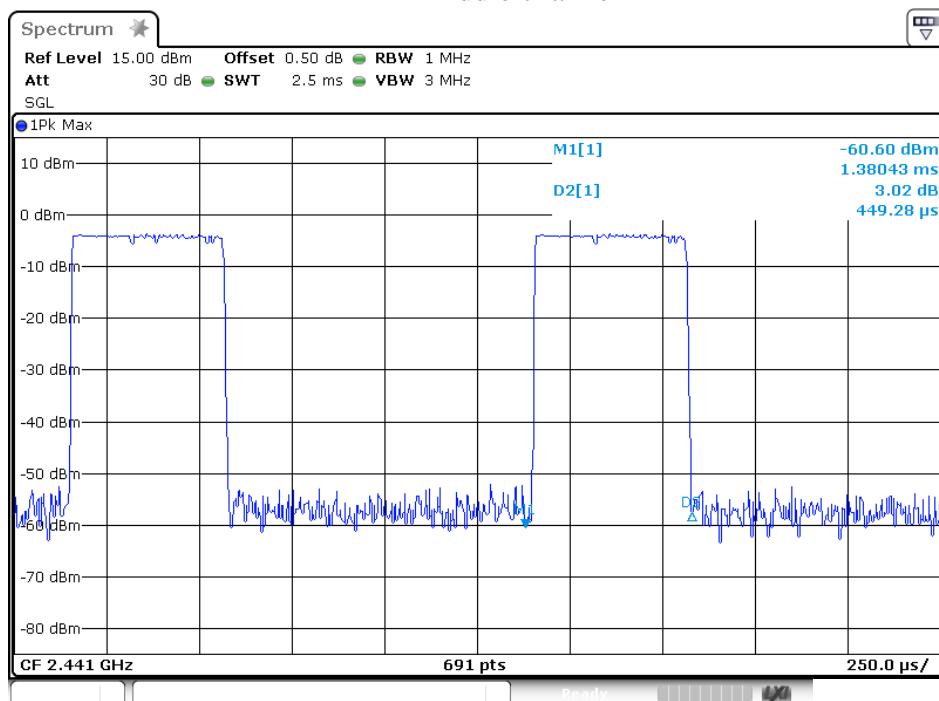
## DH5 High channel



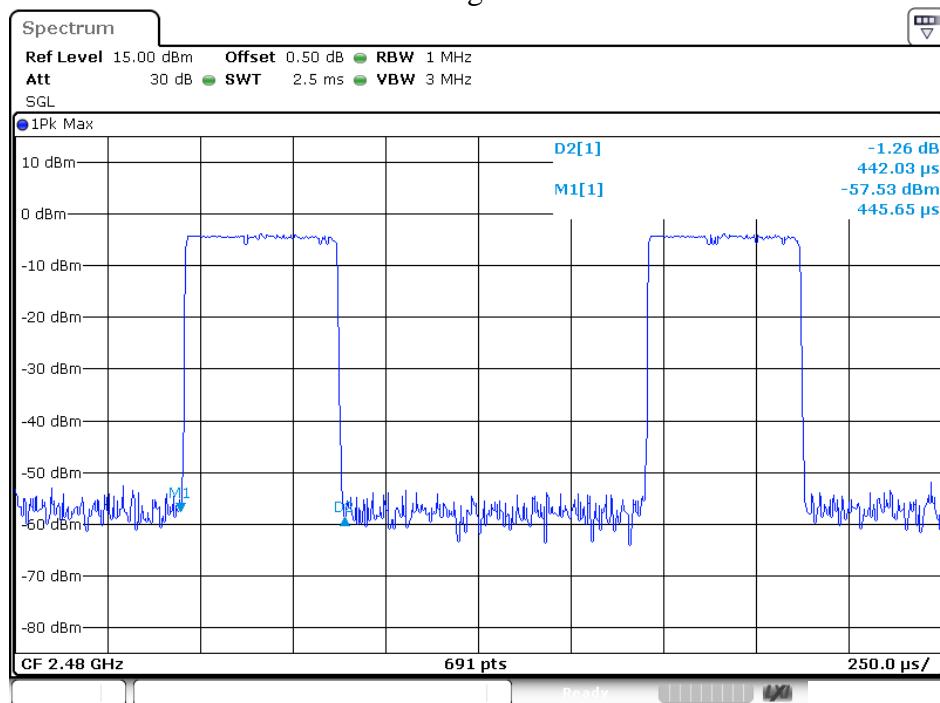
## 2DH1 Low channel



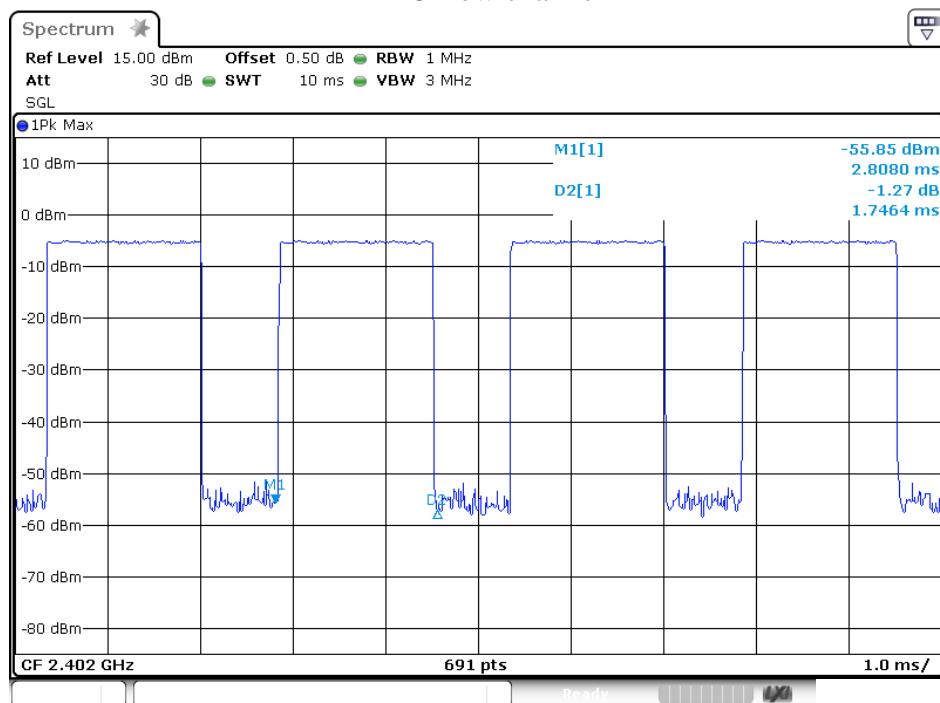
## 2DH1 Middle channel



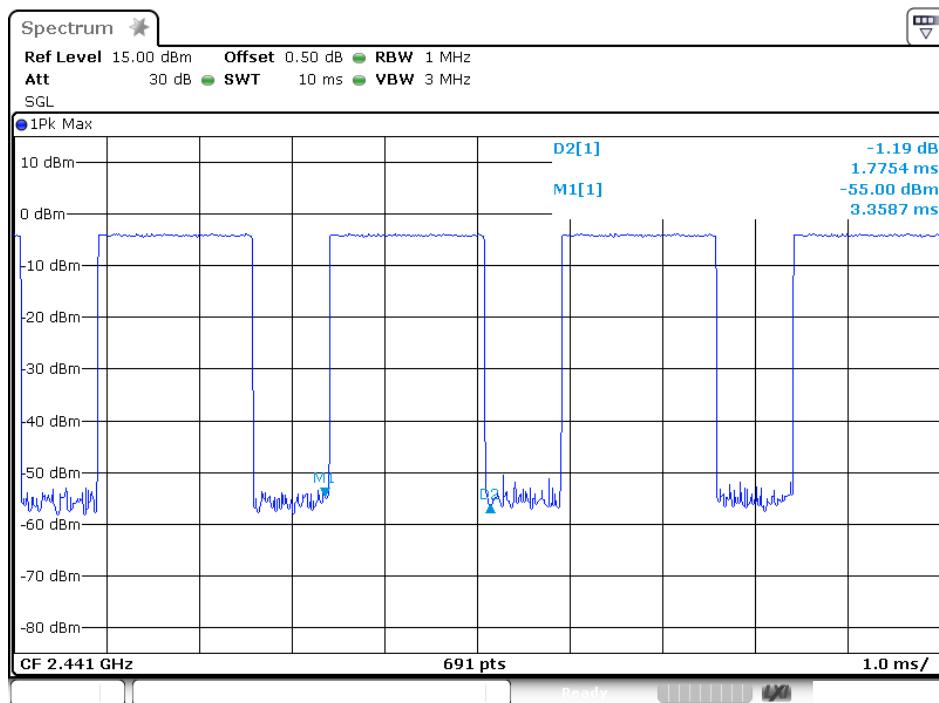
## 2DH1 High channel



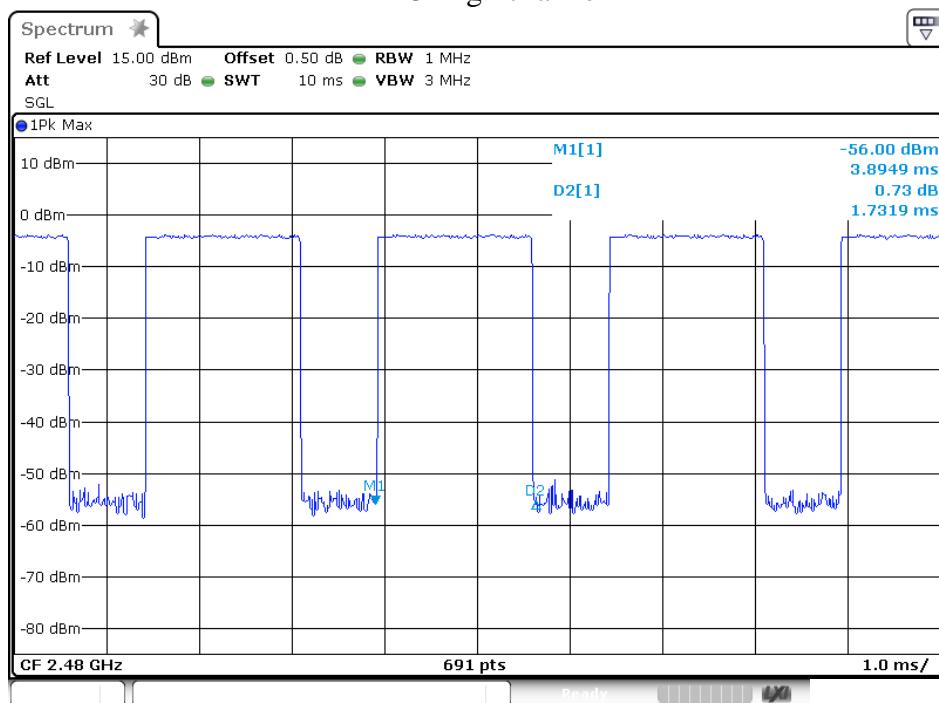
## 2DH3 Low channel



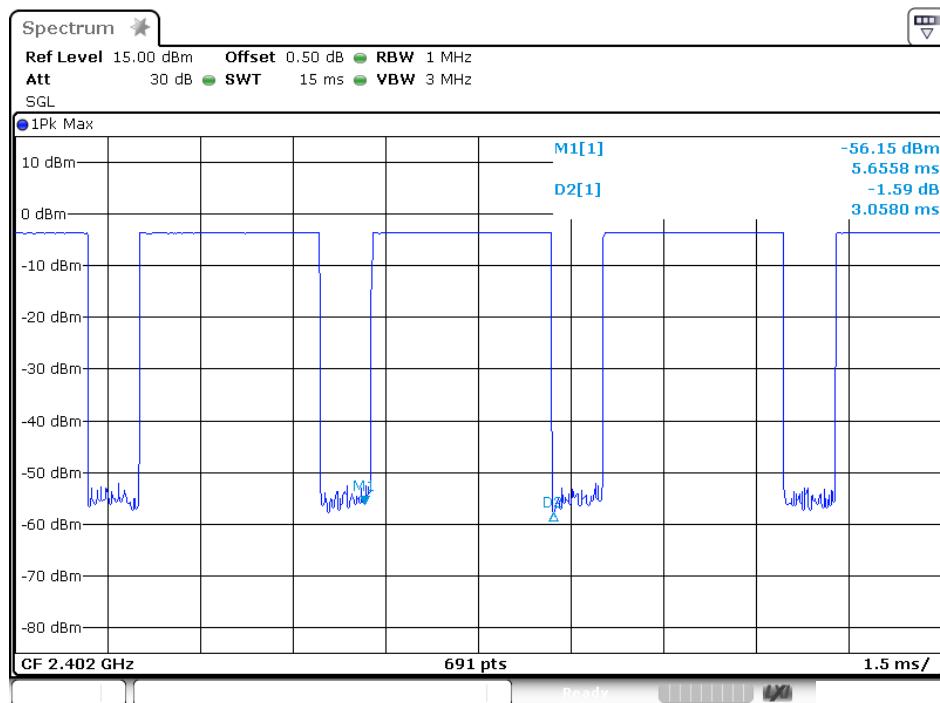
## 2DH3 Middle channel



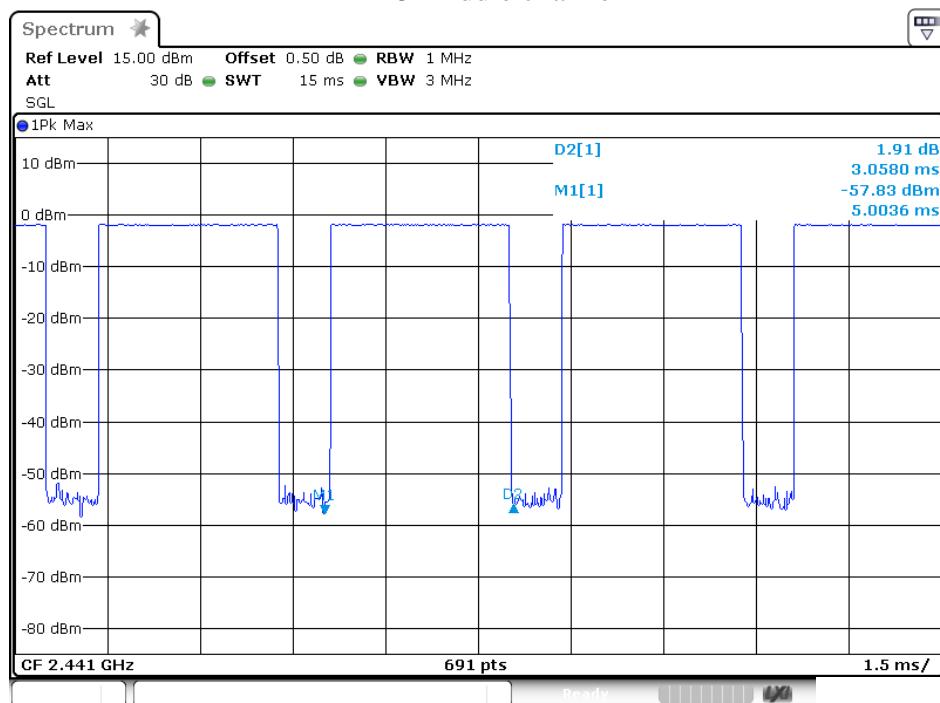
## 2DH3 High channel



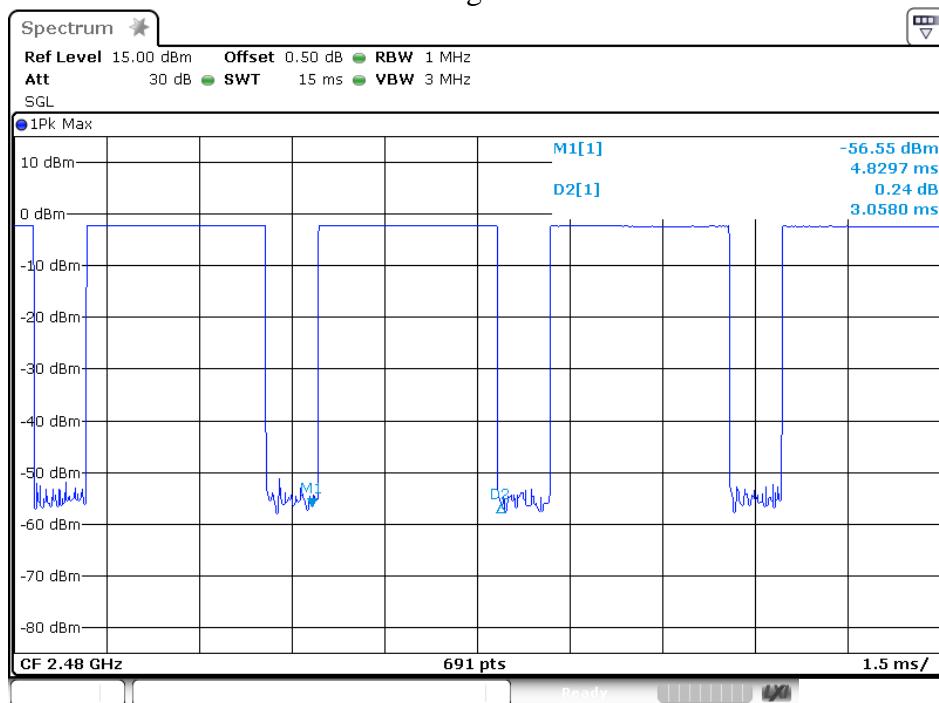
## 2DH5 Low channel



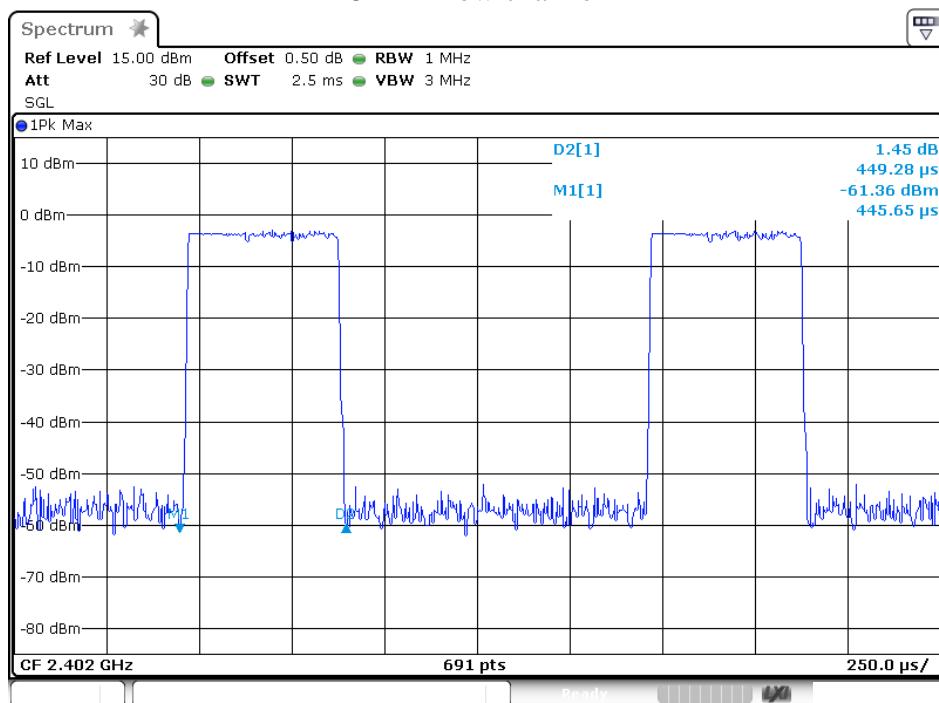
## 2DH5 Middle channel



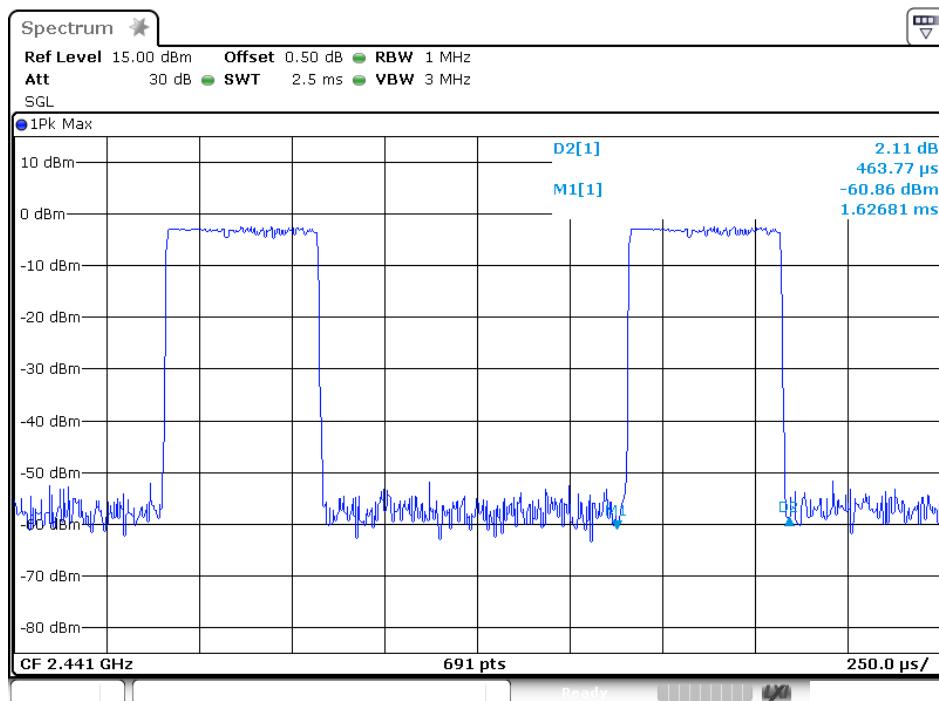
## 2DH5 High channel



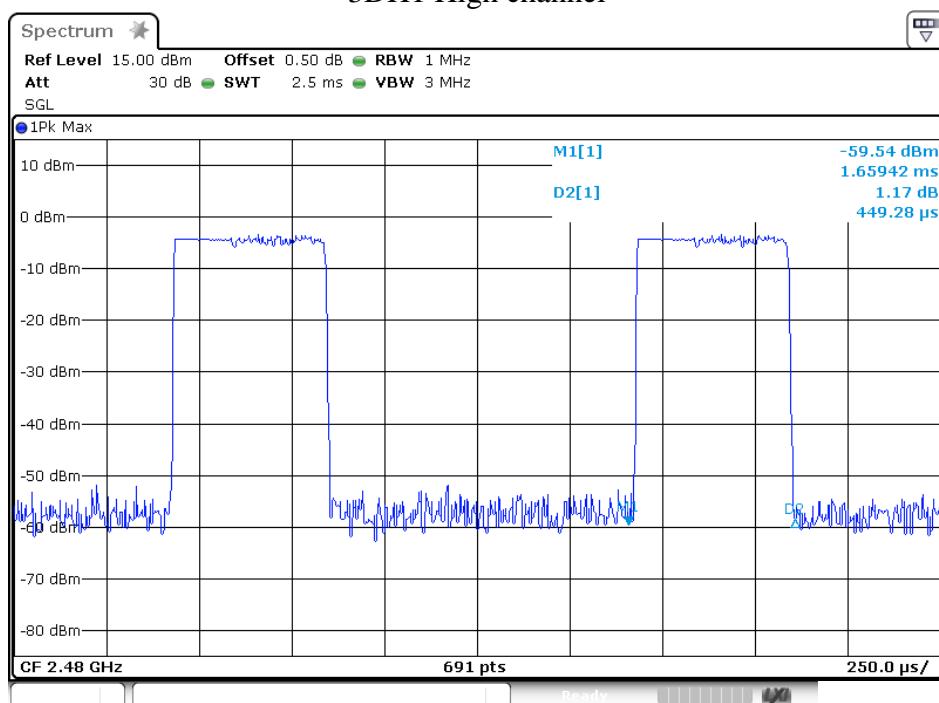
## 3DH1 Low channel



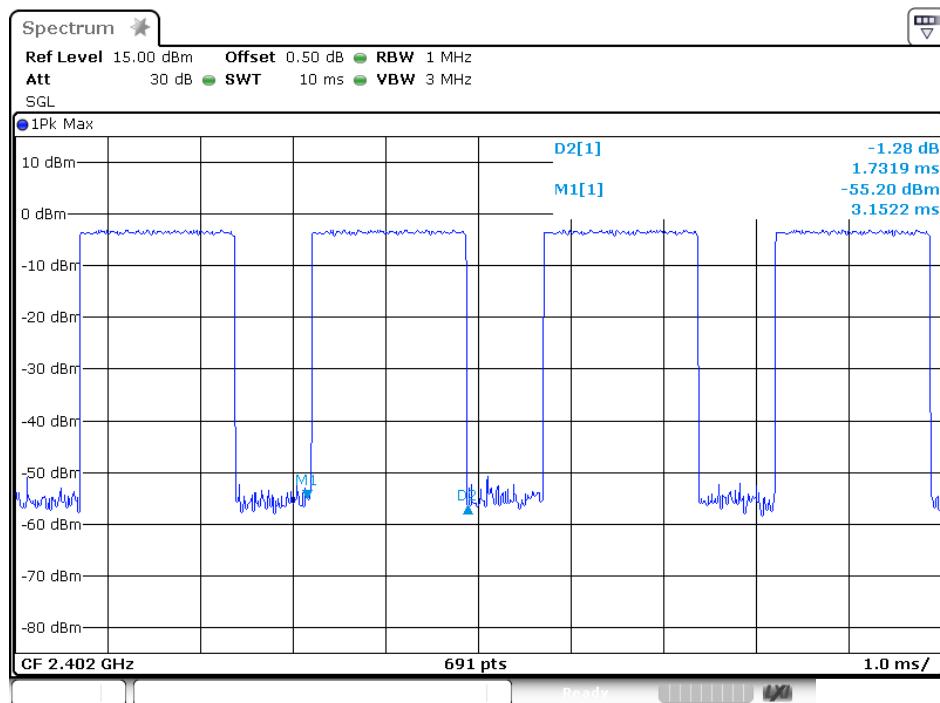
## 3DH1 Middle channel



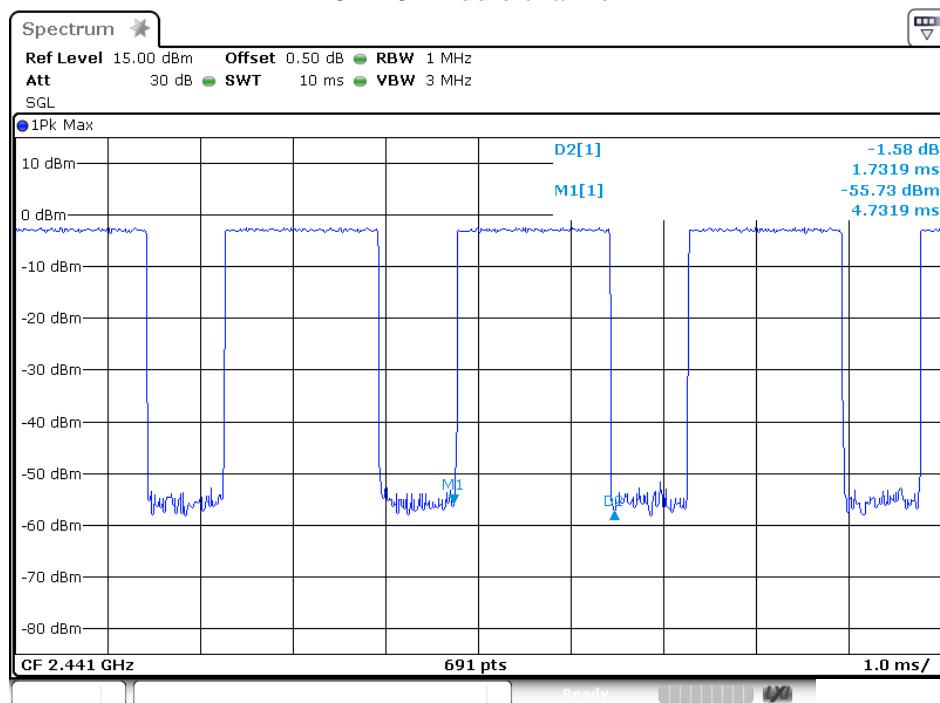
## 3DH1 High channel



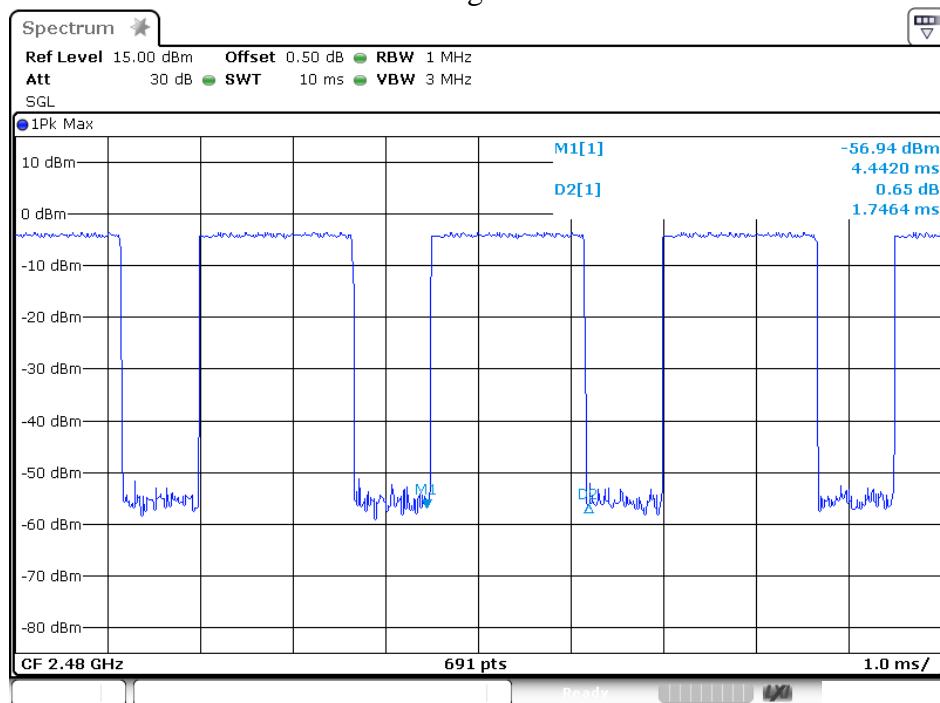
## 3DH3 Low channel



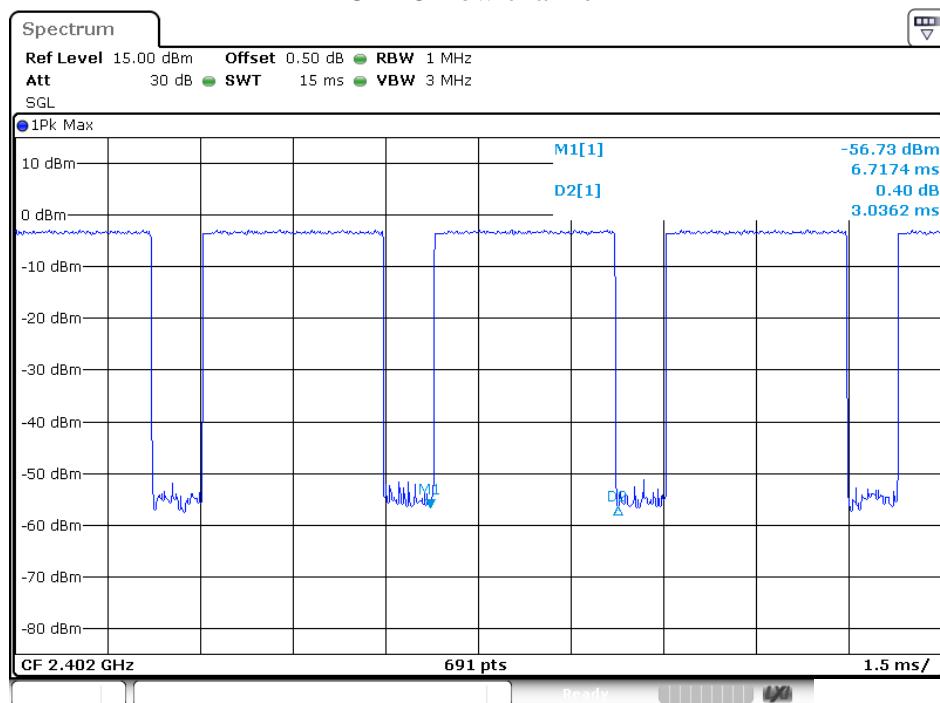
## 3DH3 Middle channel



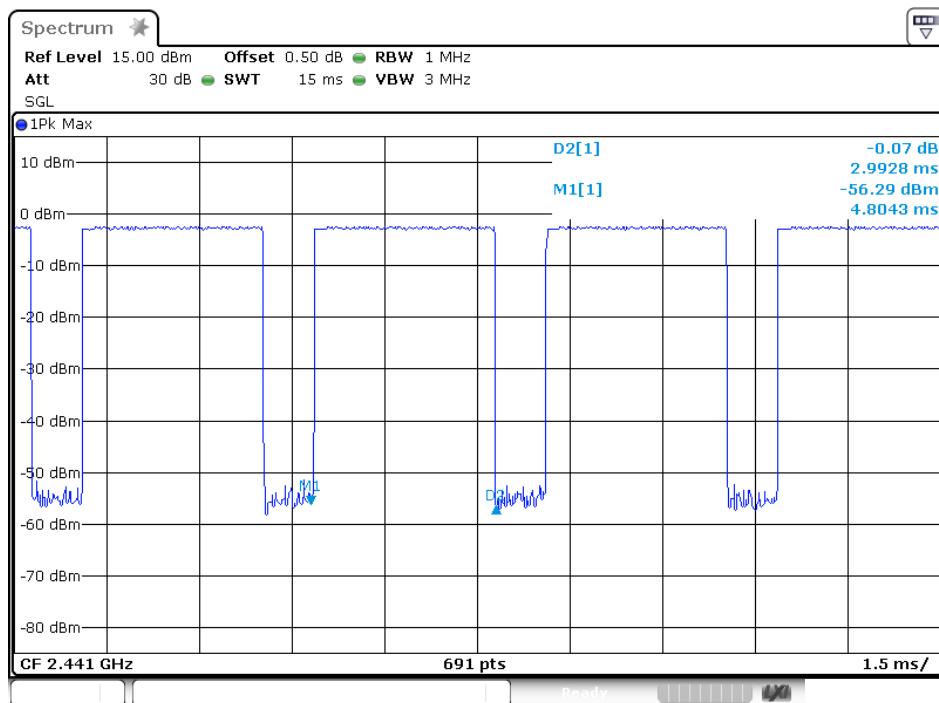
## 3DH3 High channel



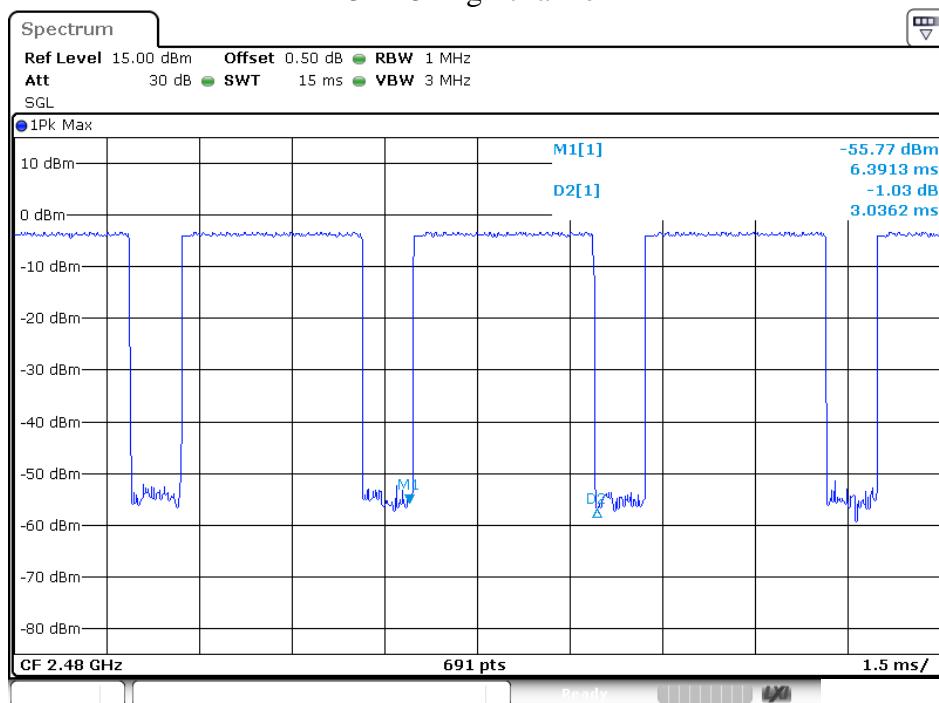
## 3DH5 Low channel



## 3DH5 Middle channel

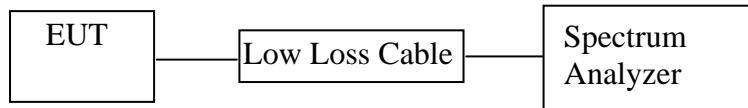


## 3DH5 High channel



## 9. MAXIMUM PEAK OUTPUT POWER TEST

### 9.1. Block Diagram of Test Setup



(EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic)

### 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 1MHz and VBW to 3MHz for GFSK mode

9.5.3. Set RBW of spectrum analyzer to 3MHz and VBW to 3MHz for other mode

9.5.4. Measurement the maximum peak output power.

## 9.6. Test Result

### GFSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W
Low	2402	2.22/0.0017	30 / 1.0
Middle	2441	2.85/0.0019	30 / 1.0
High	2480	1.71/0.0015	30 / 1.0

### $\Pi/4$ -DQPSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W
Low	2402	0.32/0.0011	21 / 0.125
Middle	2441	1.72/0.0015	21 / 0.125
High	2480	-0.20/0.0010	21 / 0.125

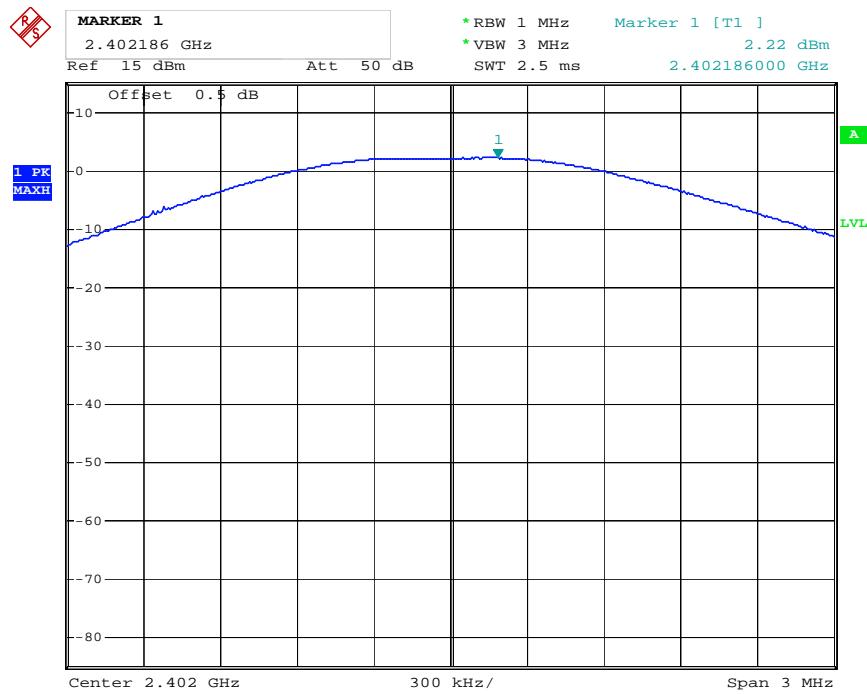
### 8DPSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W
Low	2402	0.70/0.0012	21 / 0.125
Middle	2441	1.42/0.0014	21 / 0.125
High	2480	0.13/0.0010	21 / 0.125

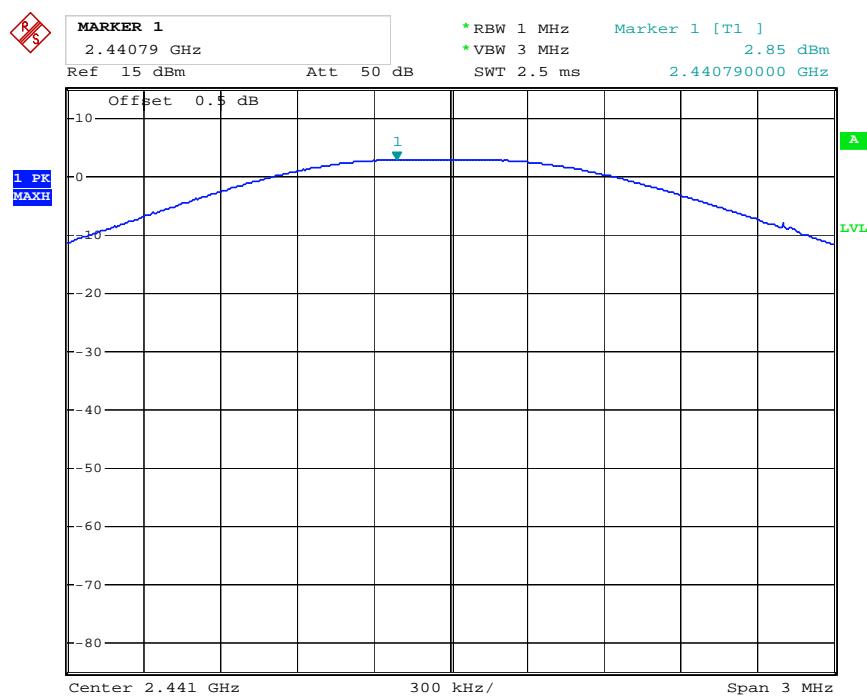
The spectrum analyzer plots are attached as below.

## GFSK Mode

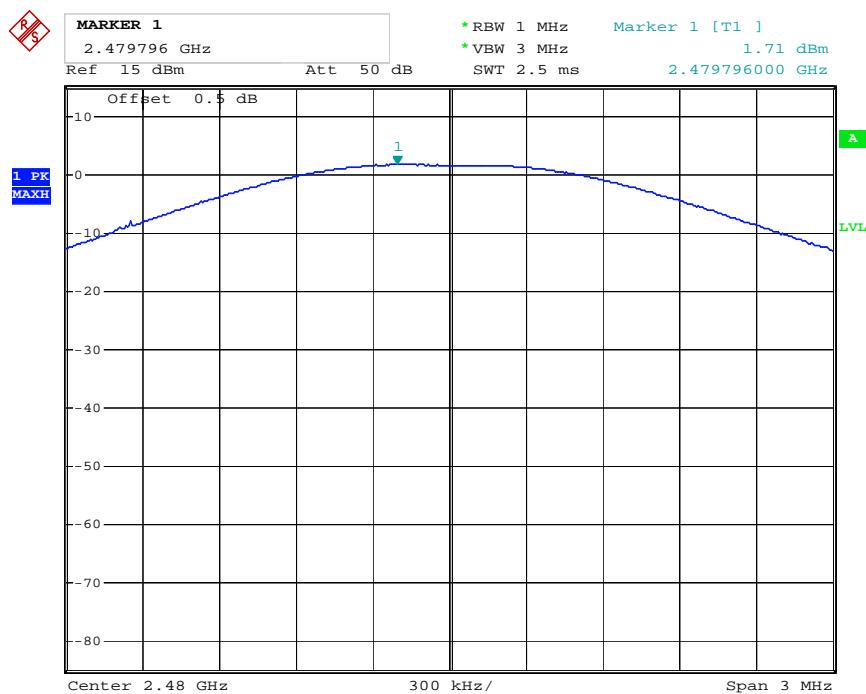
## Low channel



## Middle channel

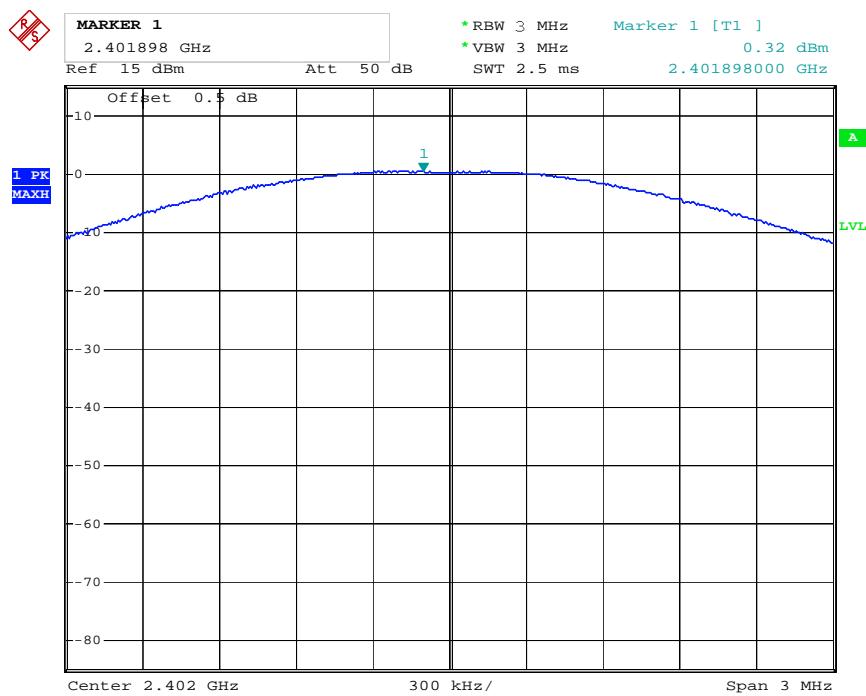


## High channel

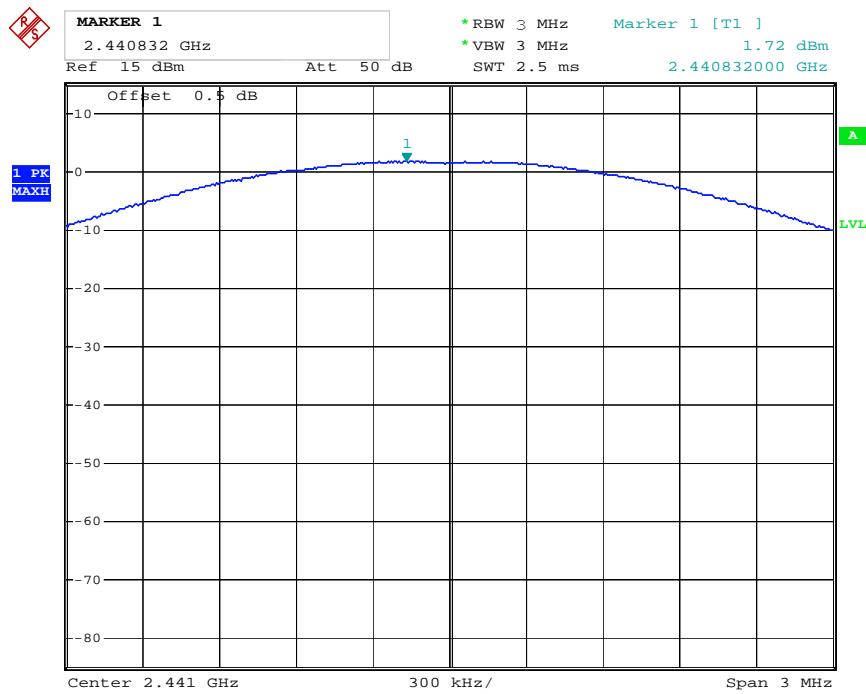


## Pi/4-DQPSK Mode

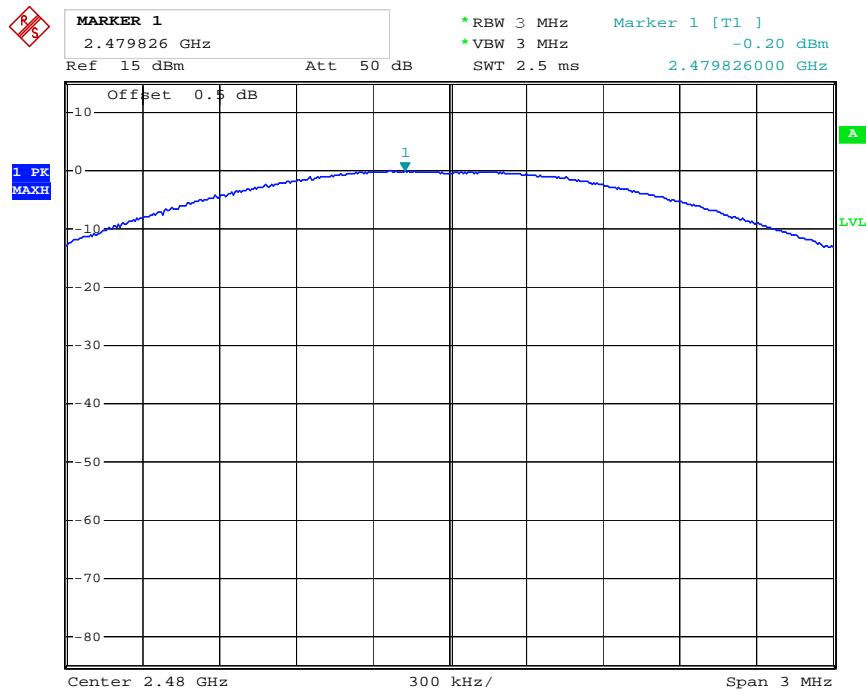
## Low channel



## Middle channel

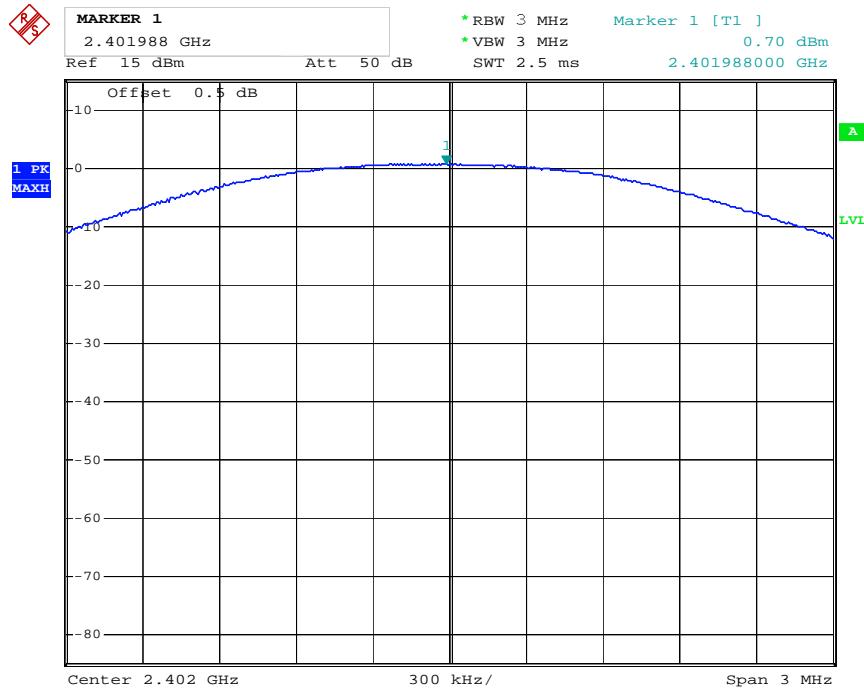


## High channel

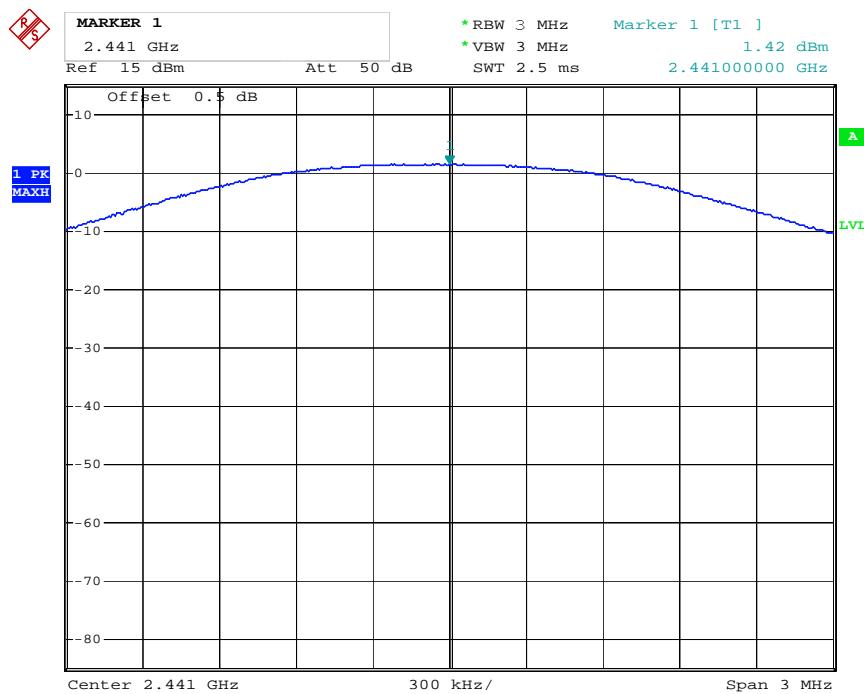


## 8DPSK Mode

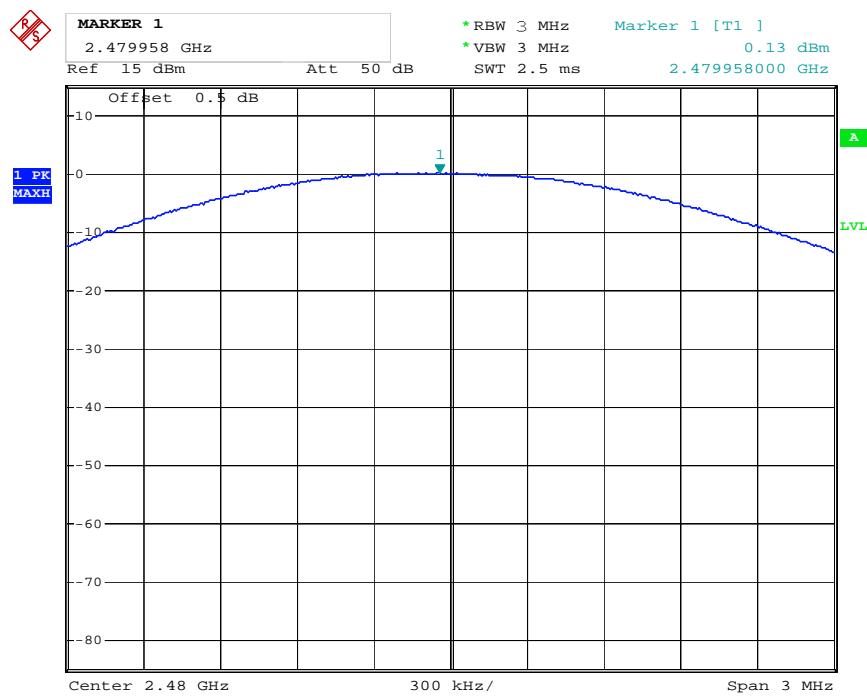
Low channel



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

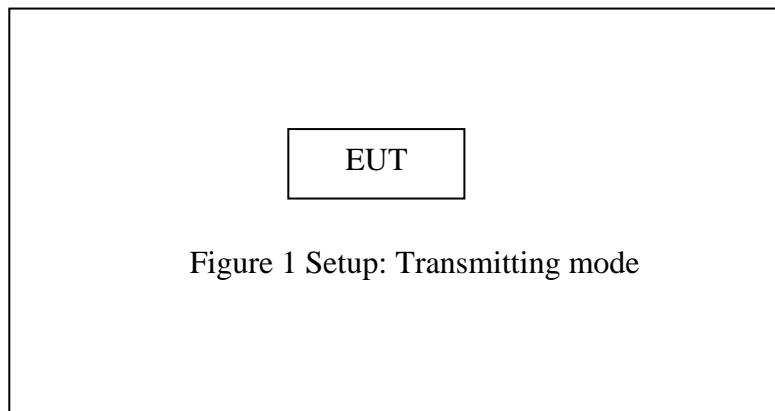
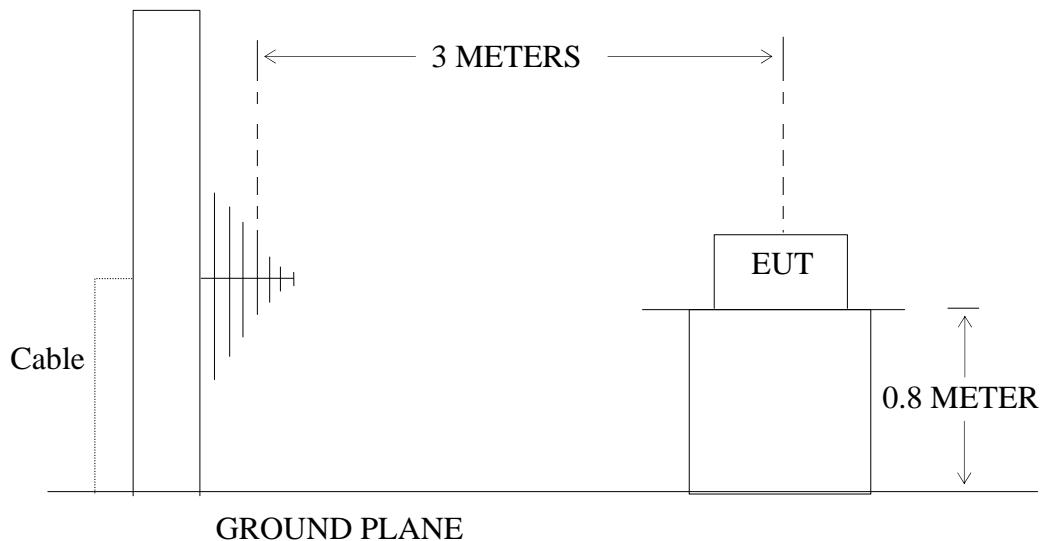


Figure 1 Setup: Transmitting mode

#### 10.1.2.Semi-Anechoic Chamber Test Setup Diagram

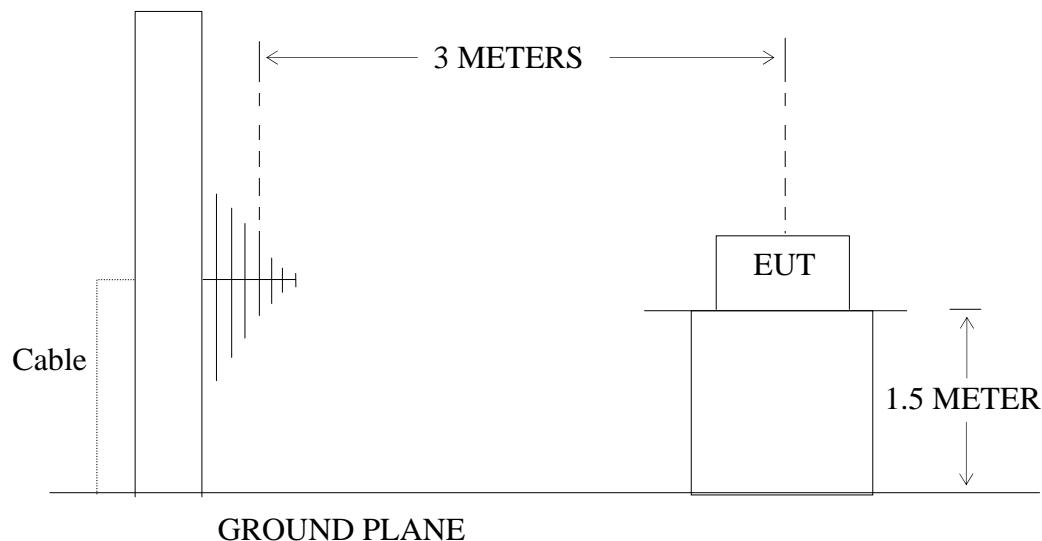
##### **Below 1GHz**

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



**Above 1GHz**

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS

**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
<sup>1</sup> 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	( <sup>2</sup> )
13.36-13.41			

<sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510

<sup>2</sup>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 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. Test Procedure

The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Below 1GHz). The EUT and its simulators are placed on a turntable, which is 0.1 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.

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.

## 10.6. The Field Strength of Radiation Emission Measurement Results

### Note:

1. We tested GFSK mode,  $\Pi/4$ -DQPSK Mode & 8QPSK mode and recorded the worst case data (GFSK mode) for all test mode.
2. The test frequency is from 30MHz to 25GHz, The 18-25GHz emissions are not reported, because the levels are too low against the limit.

## Below 1GHz



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2015 #1749

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016/1/30/

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

Time: 16:41:56

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic Engineer Signature: Star

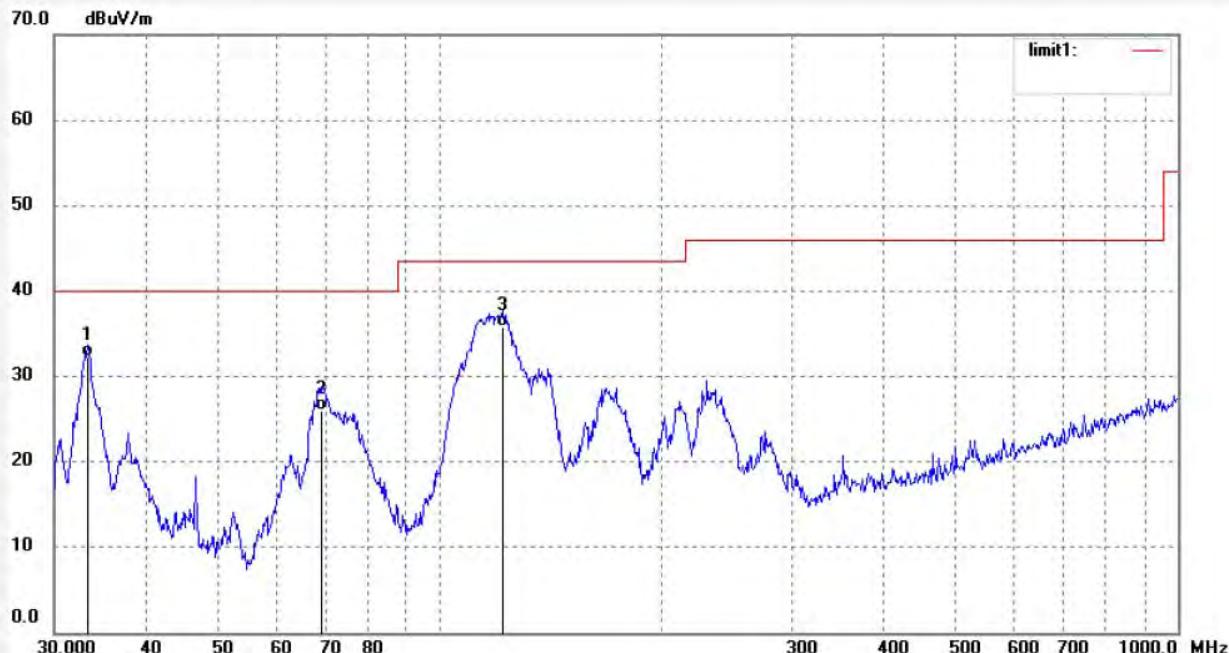
Mode: TX 2402MHz

Distance: 3m

Model: BTAE-12/6733

Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

Note: Report No.:ATE20160055



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.3348	49.62	-17.27	32.35	40.00	-7.65	QP			
2	69.2296	48.88	-22.82	26.06	40.00	-13.94	QP			
3	121.4622	57.10	-21.40	35.70	43.50	-7.80	QP			

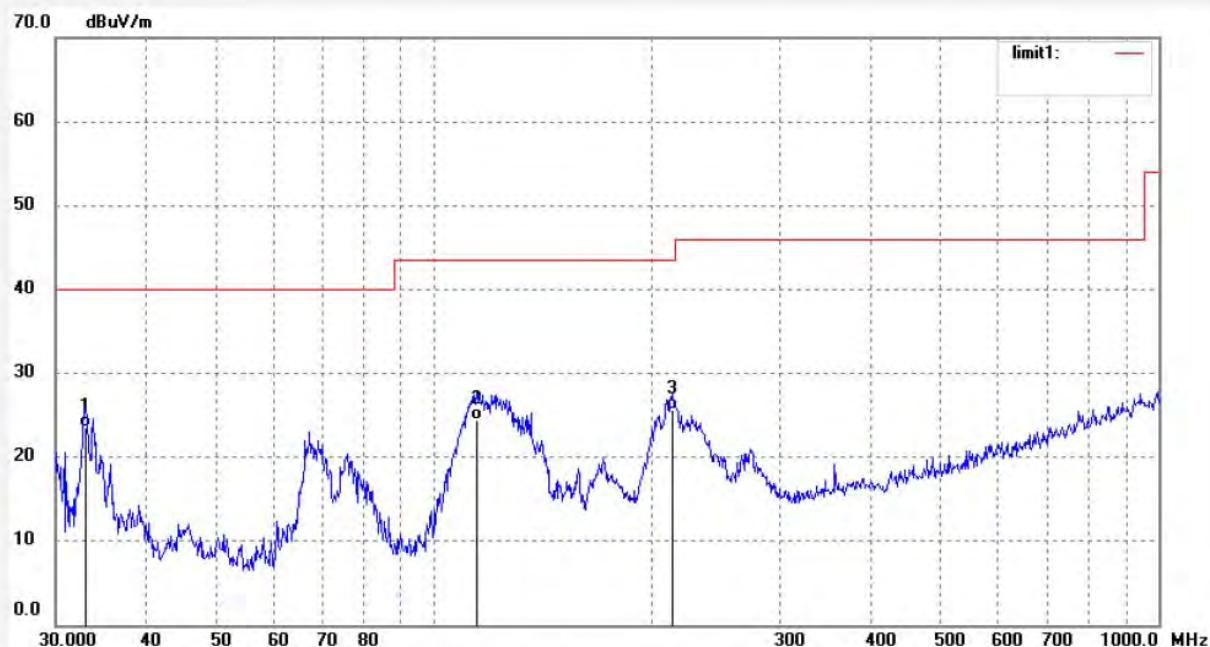


## ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: STAR2015 #1750	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2016/1/30/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 16:43:15
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: TX 2402MHz	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	
Note: Report No.:ATE20160055	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.9853	40.82	-17.22	23.60	40.00	-16.40	QP			
2	114.4197	45.68	-21.18	24.50	43.50	-19.00	QP			
3	213.1033	44.10	-18.44	25.66	43.50	-17.84	QP			

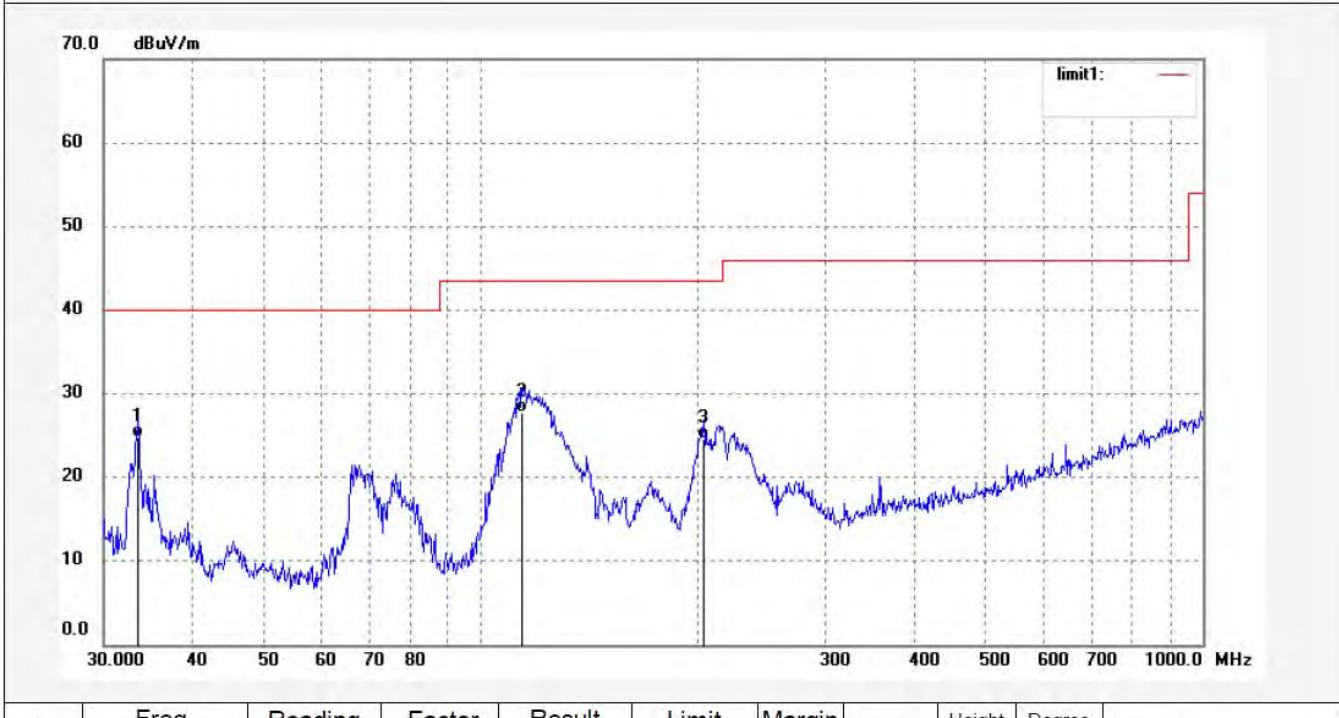


## ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: STAR2015 #1751	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2016/1/30/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 16:44:32
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: TX 2441MHz	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	
Note: Report No.:ATE20160055	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.4522	42.08	-17.28	24.80	40.00	-15.20	QP			
2	114.0184	48.96	-21.16	27.80	43.50	-15.70	QP			
3	203.5886	43.20	-18.58	24.62	43.50	-18.88	QP			



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

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

Job No.: STAR2015 #1752

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016/1/30/

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

Time: 16:45:19

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic Engineer Signature: Star

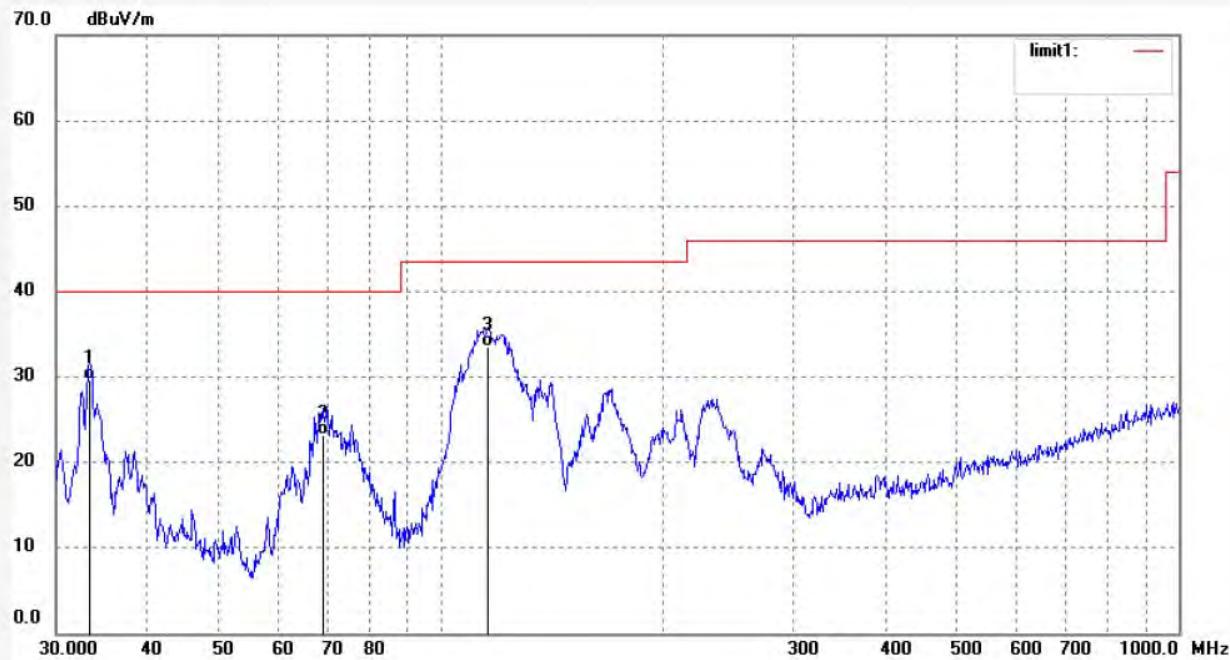
Mode: TX 2441MHz

Distance: 3m

Model: BTAE-12/6733

Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

Note: Report No.:ATE20160055



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.3349	47.00	-17.27	29.73	40.00	-10.27	QP			
2	68.9869	46.00	-22.81	23.19	40.00	-16.81	QP			
3	115.6322	54.67	-21.21	33.46	43.50	-10.04	QP			



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

Job No.: STAR2015 #1753

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016/1/30/

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

Time: 16:46:07

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic Engineer Signature: Star

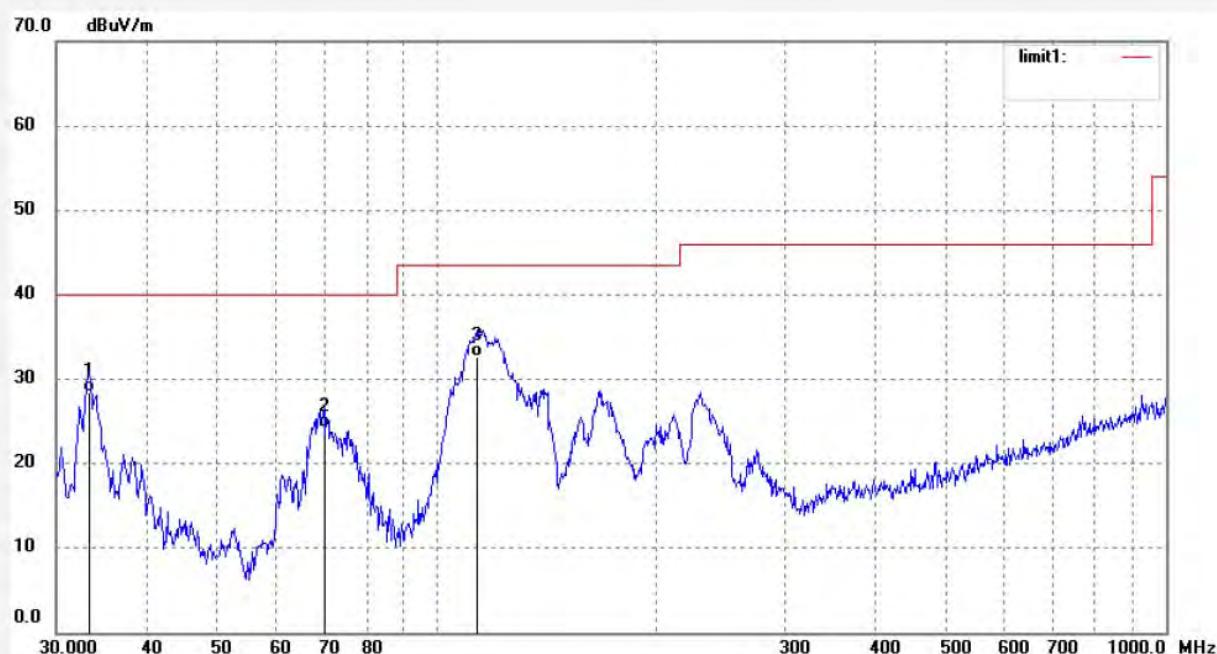
Mode: TX 2480MHz

Distance: 3m

Model: BTAE-12/6733

Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

Note: Report No.:ATE20160055



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.3348	45.69	-17.27	28.42	40.00	-11.58	QP			
2	69.9632	47.15	-22.85	24.30	40.00	-15.70	QP			
3	113.6184	53.87	-21.15	32.72	43.50	-10.78	QP			

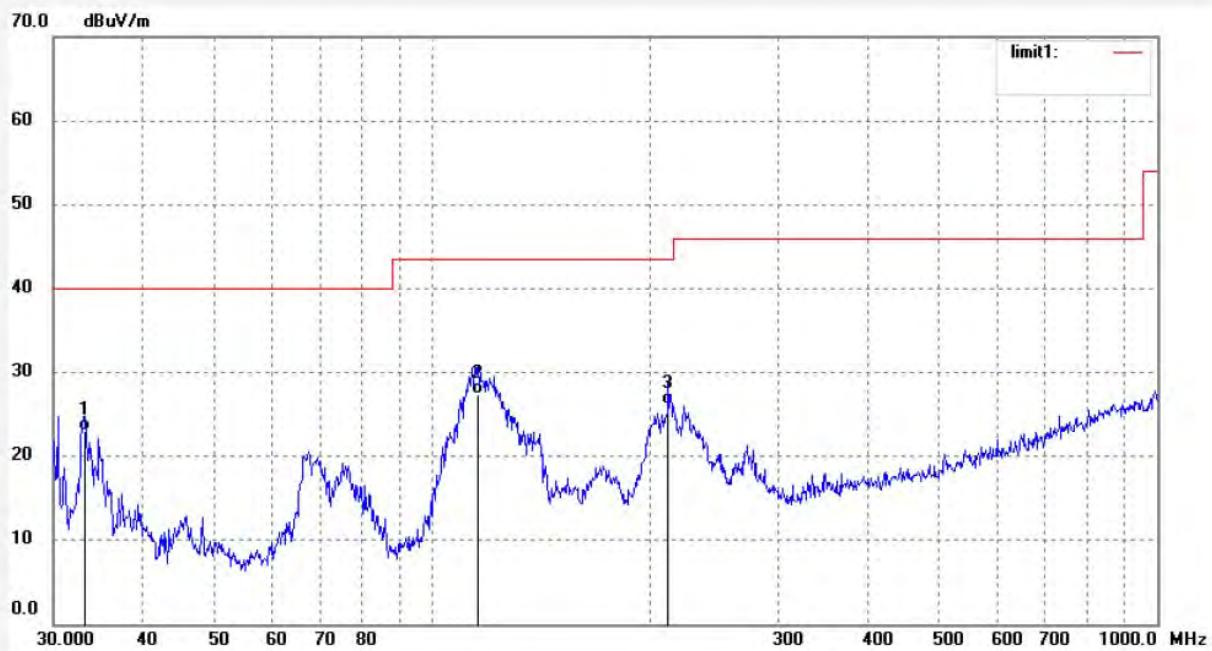


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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: STAR2015 #1754	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2016/1/30/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 16:47:25
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: TX 2480MHz	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	
Note: Report No.:ATE20160055	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.1015	40.30	-17.24	23.06	40.00	-16.94	QP			
2	115.6321	48.68	-21.21	27.47	43.50	-16.03	QP			
3	211.6111	44.71	-18.46	26.25	43.50	-17.25	QP			

## Above 1GHz



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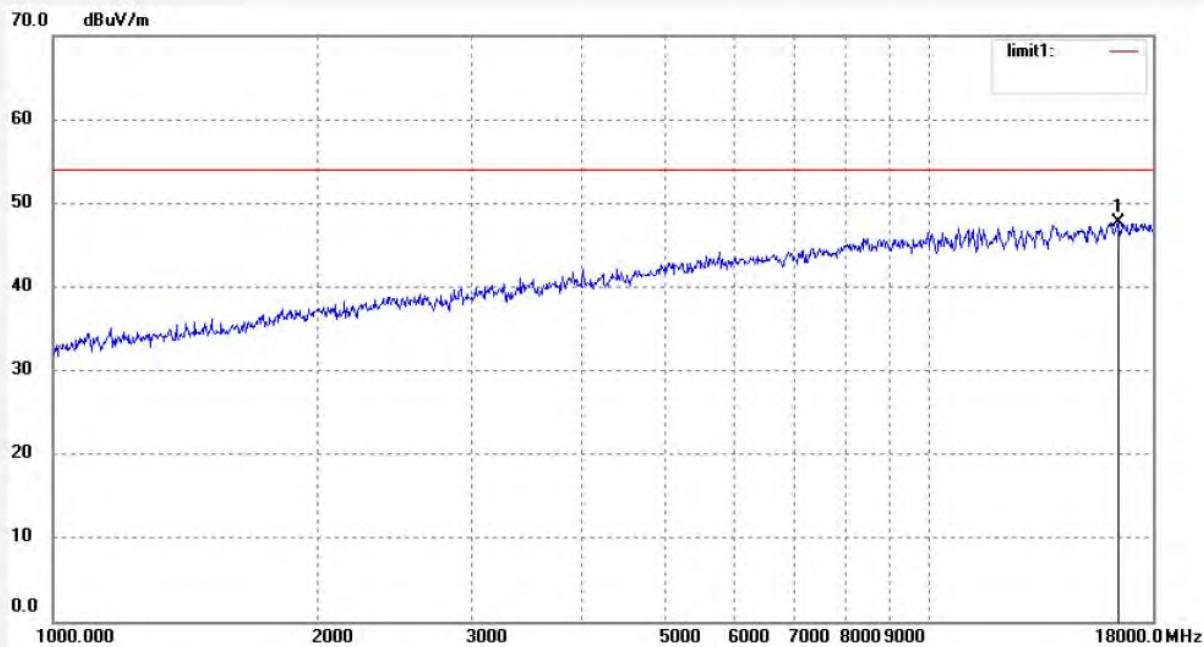
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #603	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/1/30/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 13/38/34
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: TX 2402MHz	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	

Note: Report NO.:ATE20160055



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	16409.819	43.31	4.38	47.69	54.00	-6.31	peak			

Note: Average measurement with peak detection at No.2



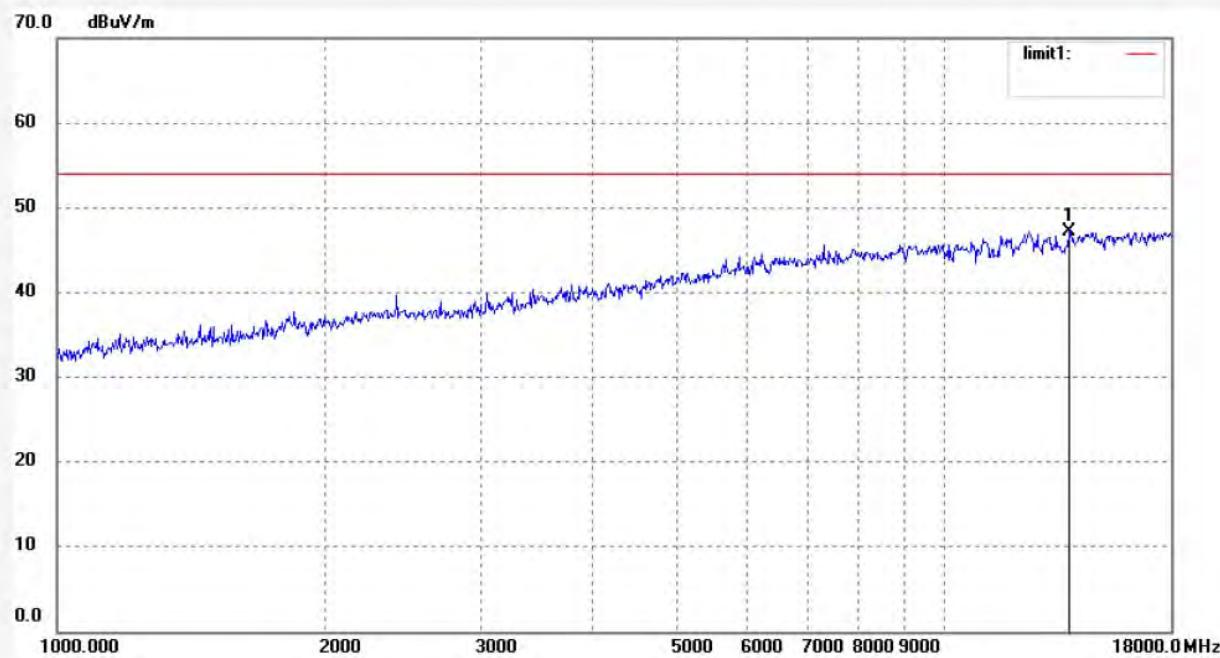
## ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: star2015 #604	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/1/30/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 13/39/44
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: TX 2402MHz	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	

Note: Report NO.:ATE20160055



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	13837.024	43.35	3.81	47.16	54.00	-6.84	peak			

Note: Average measurement with peak detection at No.2

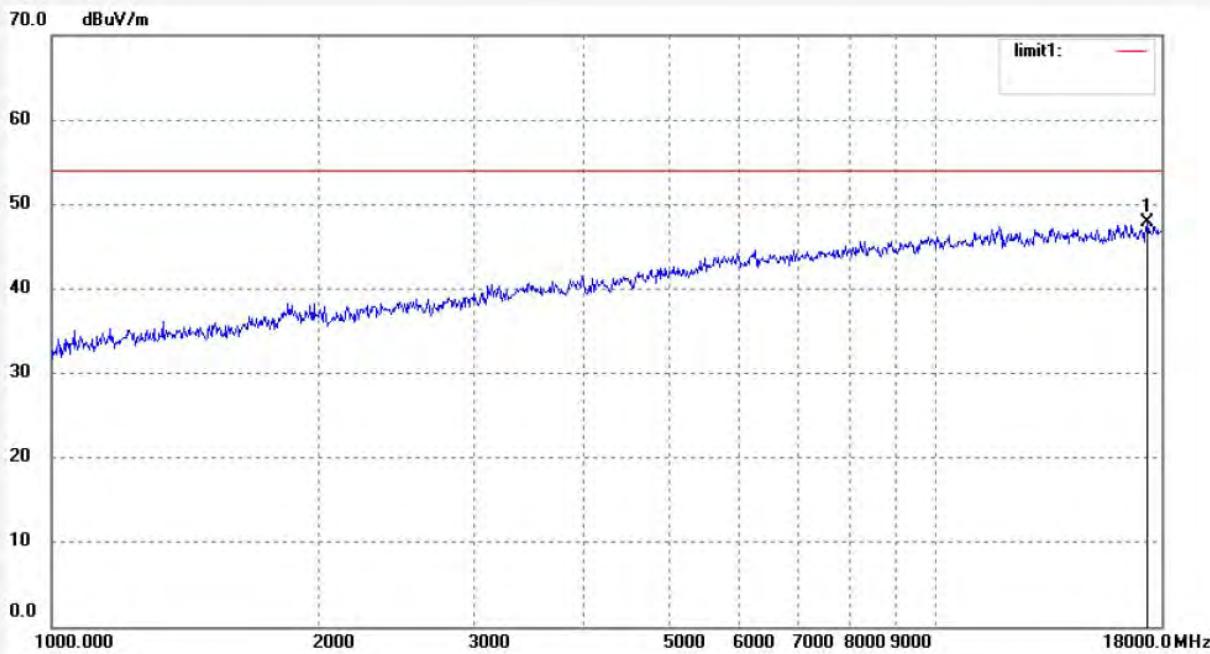


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Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.:	star2015 #605	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	16/1/30/
Temp.( C)/Hum.(%)	23 C / 48 %	Time:	13/40/48
EUT:	BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature:	Star
Mode:	TX 2441MHz	Distance:	3m
Model:	BTAE-12/6733		
Manufacturer:	CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.		
Note:	Report NO.:ATE20160055		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	17336.202	40.76	7.03	47.79	54.00	-6.21	peak			

Note: Average measurement with peak detection at No.2



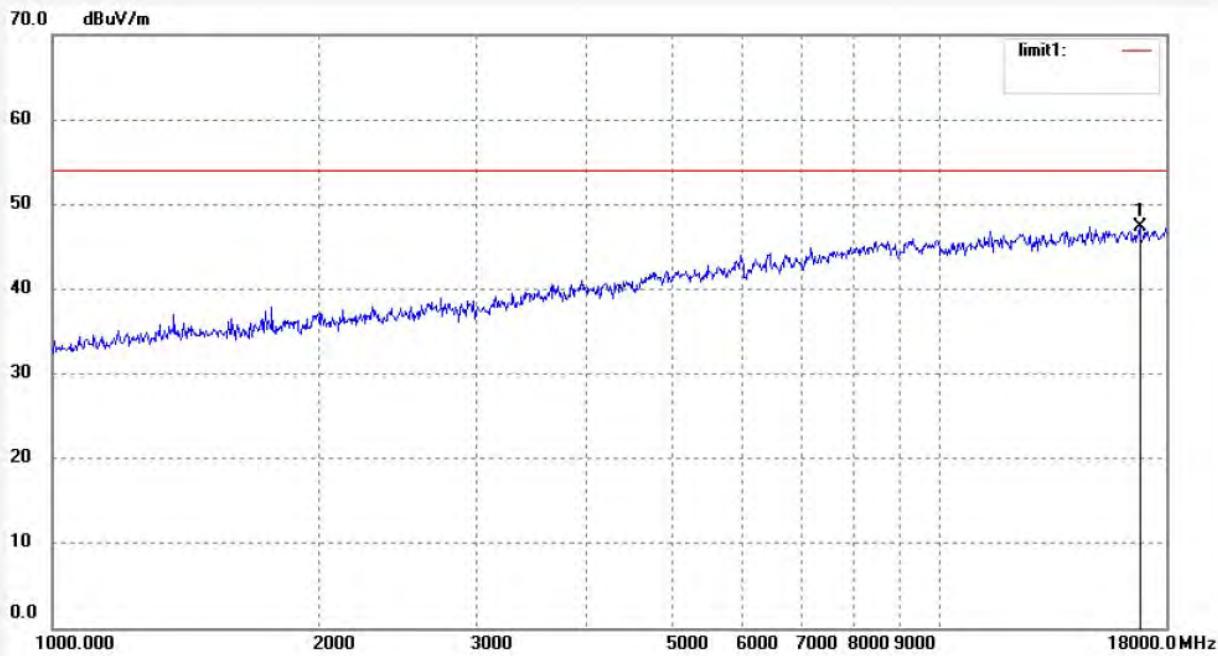
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Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star2015 #606	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/1/30/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 13/41/53
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: TX 2441MHz	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	

Note: Report NO.:ATE20160055



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	16793.683	42.14	5.19	47.33	54.00	-6.67	peak			

Note: Average measurement with peak detection at No.2



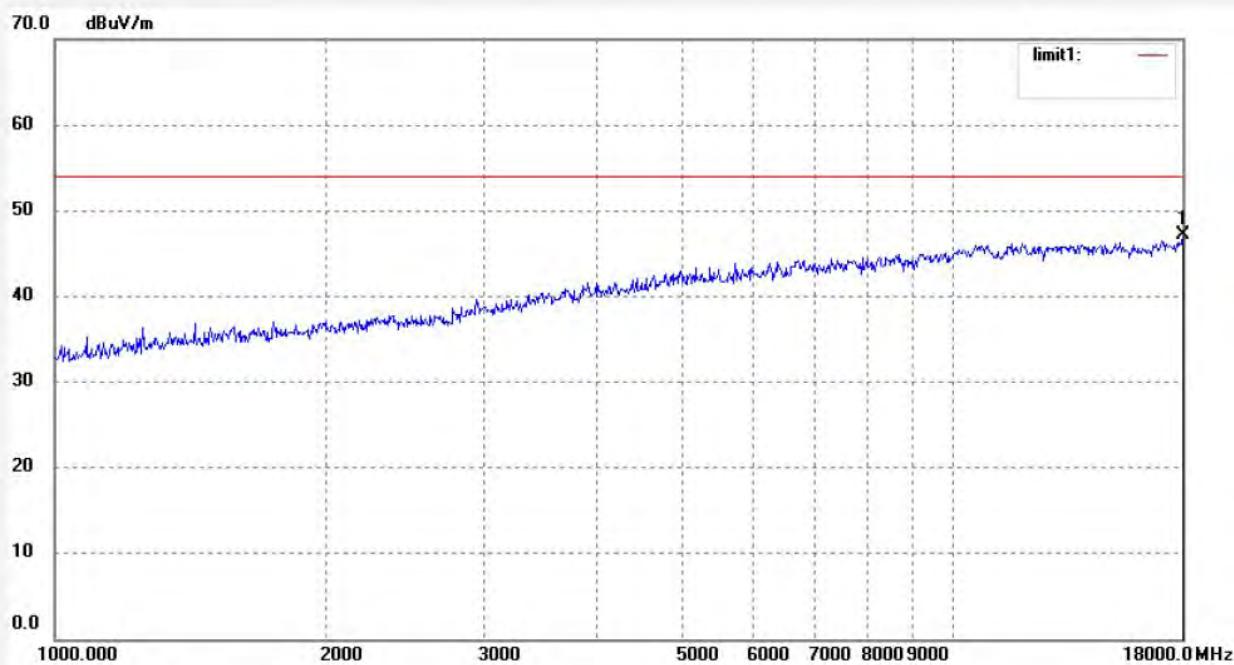
## ACCURATE TECHNOLOGY CO., LTD.

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

Job No.: star2015 #607	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/1/30/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 13/43/24
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: TX 2480MHz	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	

Note: Report NO.:ATE20160055



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18000.000	37.18	9.98	47.16	54.00	-6.84	peak			

Note: Average measurement with peak detection at No.2



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

Job No.: star2015 #608

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 16/1/30/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 13:44:44

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic Engineer Signature: Star

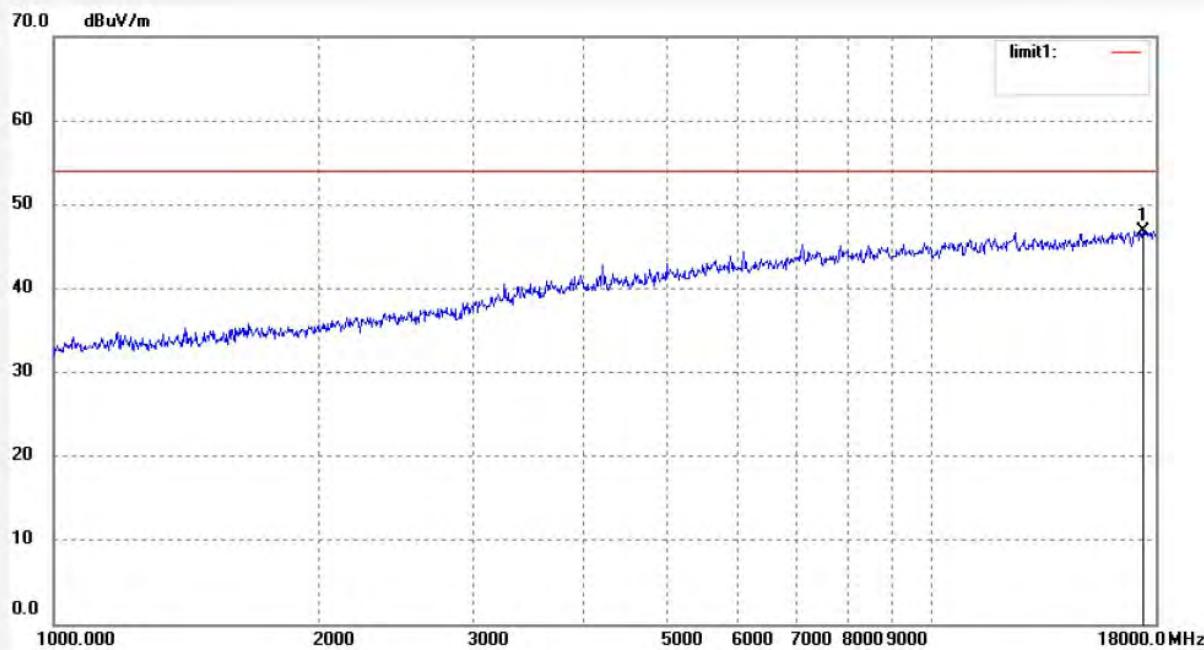
Mode: TX 2480MHz

Distance: 3m

Model: BTAE-12/6733

Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

Note: Report NO.:ATE20160055

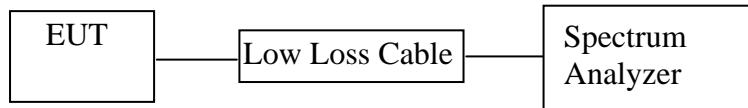


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	17386.383	39.59	7.23	46.82	54.00	-7.18	peak			

Note: Average measurement with peak detection at No.2

## 11.BAND EDGE COMPLIANCE TEST

### 11.1.Block Diagram of Test Setup



(EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic)

### 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.

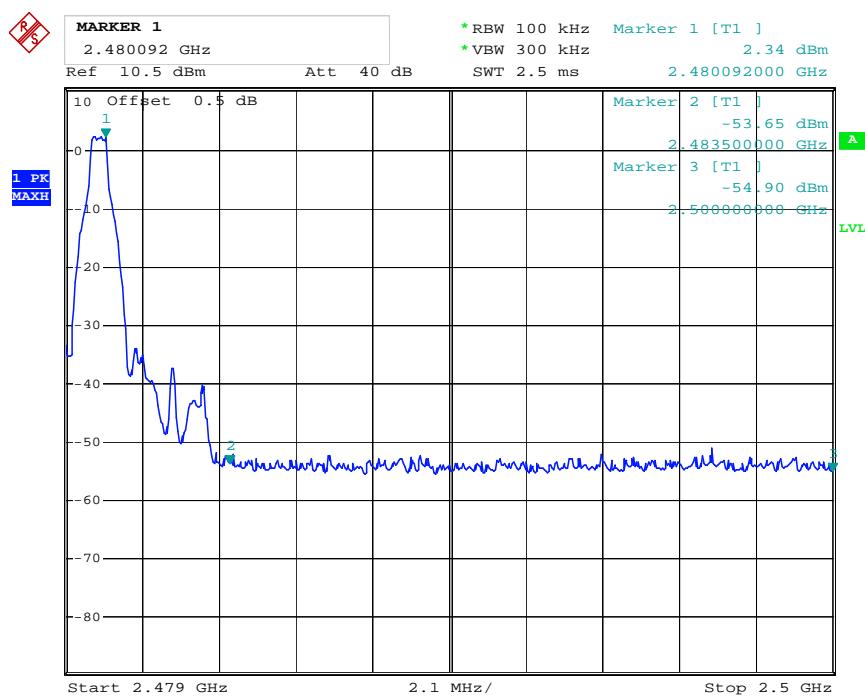
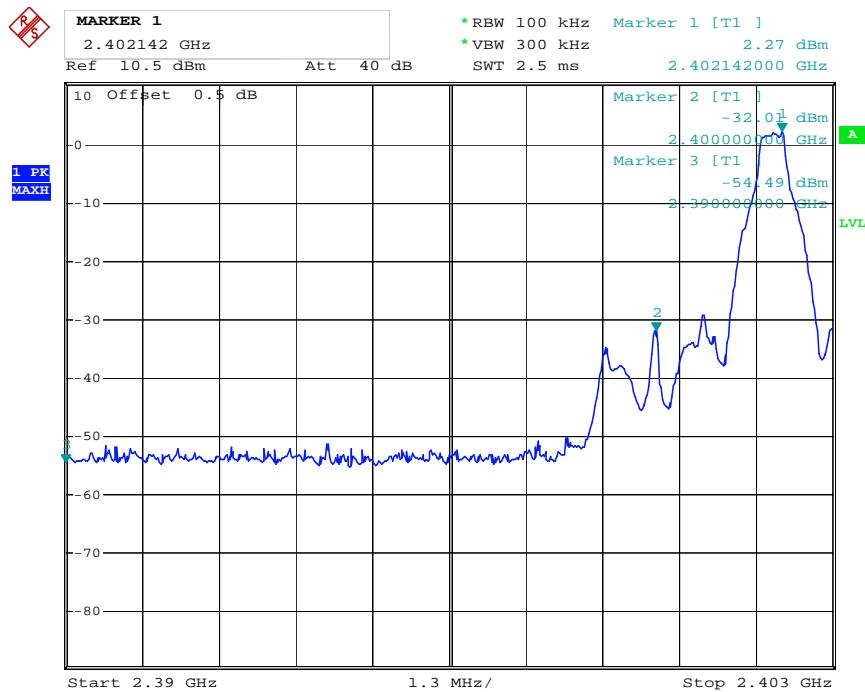
11.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz with convenient frequency span including 100 kHz bandwidth from band edge.

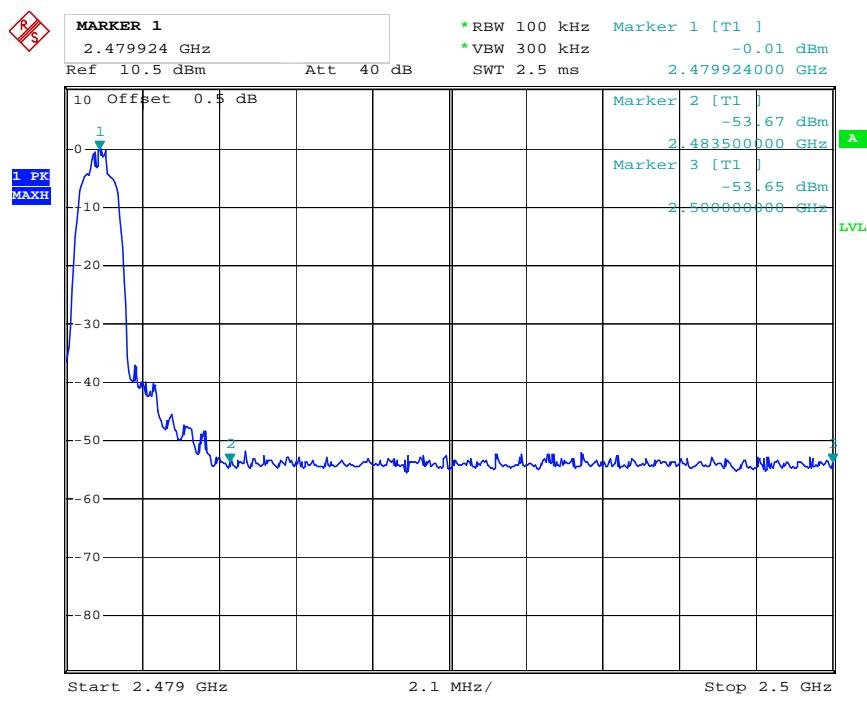
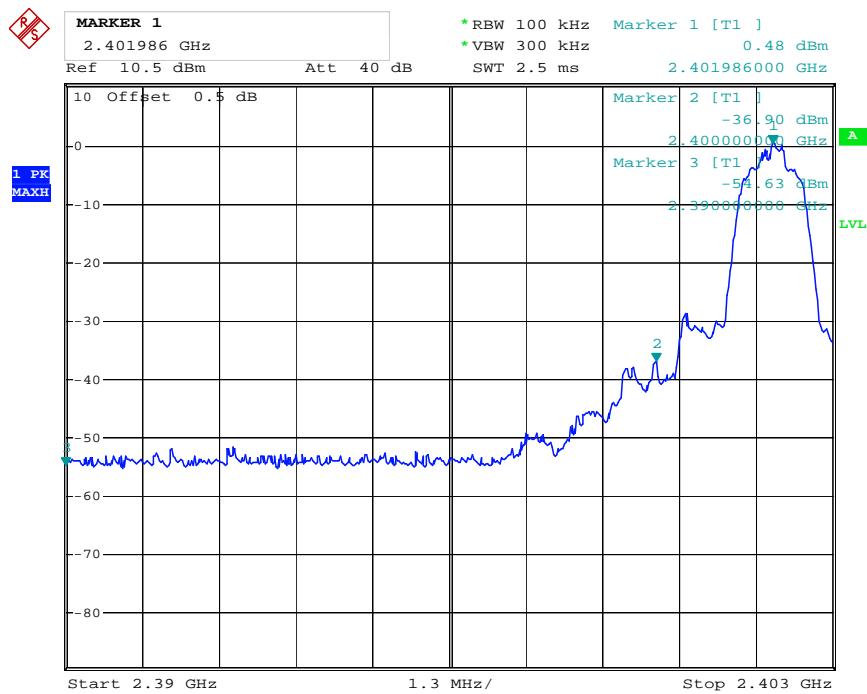
11.5.3. The band edges was measured and recorded.

## 11.6. Test Result

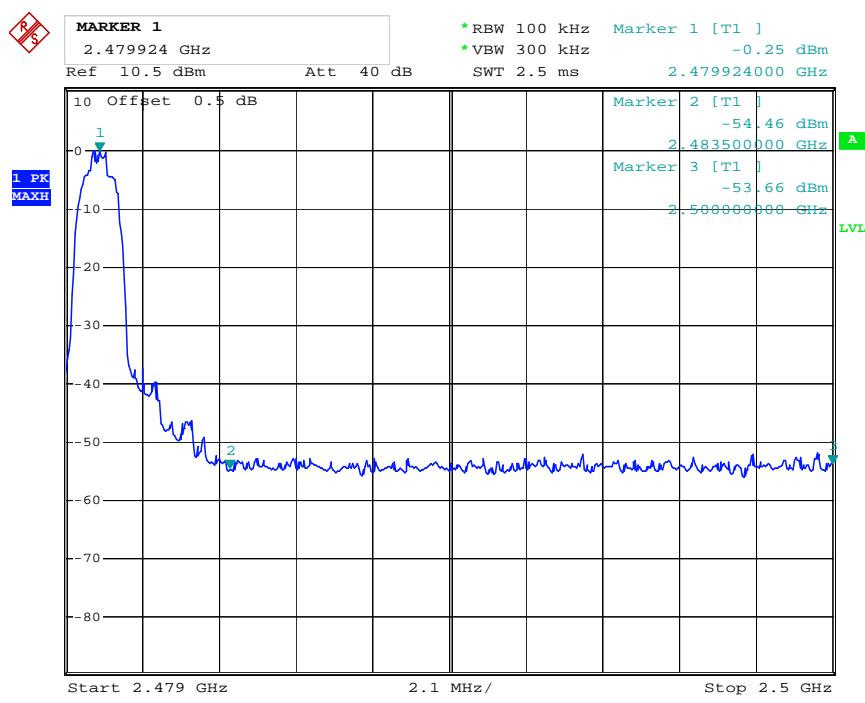
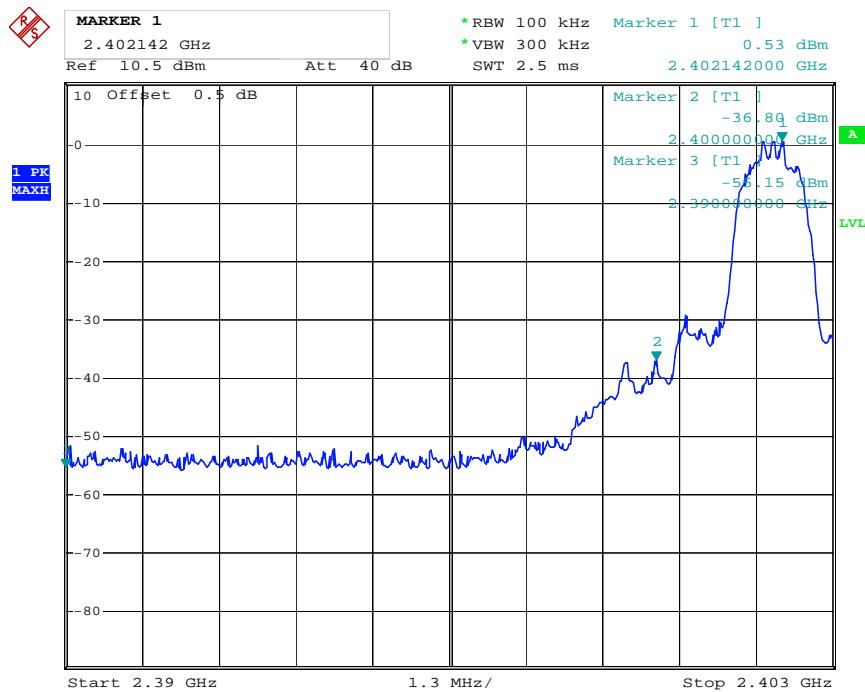
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
GFSK		
2400.00	34.28	> 20dBc
2483.50	55.99	> 20dBc
Π/4-DQPSK Mode		
2400.00	37.38	> 20dBc
2483.50	53.66	> 20dBc
8DPSK		
2400.00	37.33	> 20dBc
2483.50	54.21	> 20dBc

## GFSK



$\Pi/4$ -DQPSK Mode

## 8DPSK



## Radiated Band Edge Result

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

3. Display the measurement of peak values.

Test Procedure:

The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

Let the EUT work in TX (Hopping off, Hopping on) modes measure it.

We select 2402MHz, 2480MHz TX frequency to transmit(Hopping off mode).

We select 2402-2480MHz TX frequency to transmit(Hopping on mode).

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

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

## Non-hopping mode



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2015 #437

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 16/1/30/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 17/36/02

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic Engineer Signature: Star

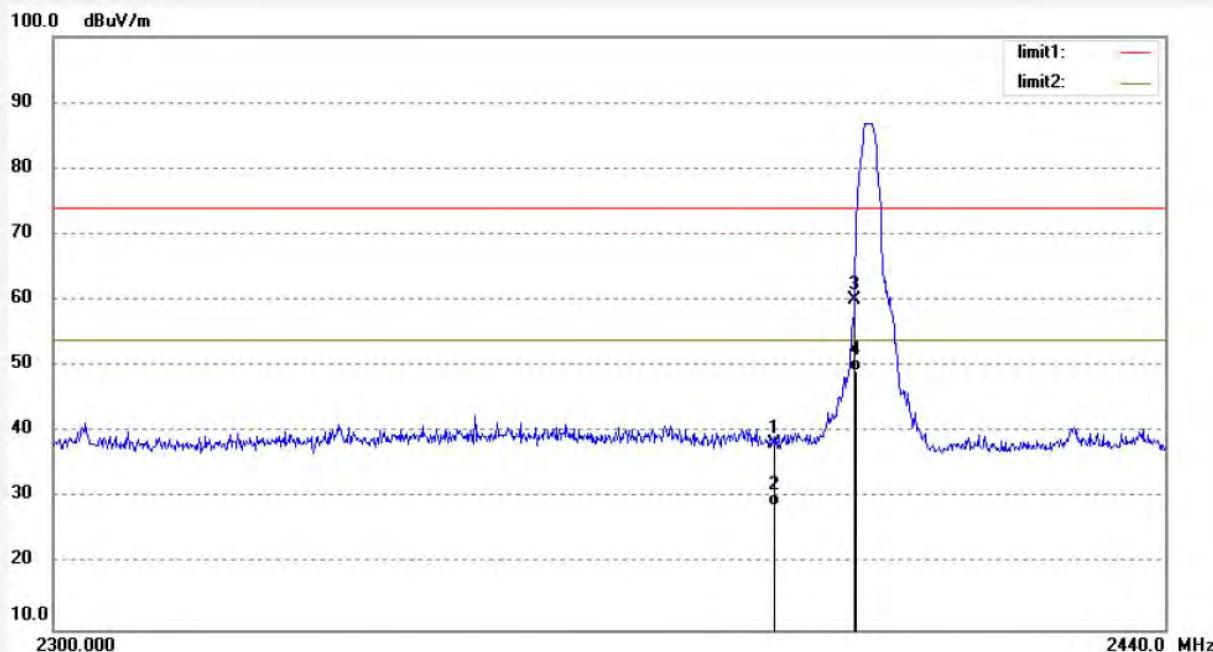
Mode: TX 2402MHz(GFSK)

Distance: 3m

Model: BTAE-12/6733

Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

Note: Report NO.:ATE20160055



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	45.86	-7.53	38.33	74.00	-35.67	peak			
2	2390.000	36.22	-7.53	28.69	54.00	-25.31	AVG			
3	2400.000	67.51	-7.46	60.05	74.00	-13.95	peak			
4	2400.000	56.79	-7.46	49.33	54.00	-4.67	AVG			

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

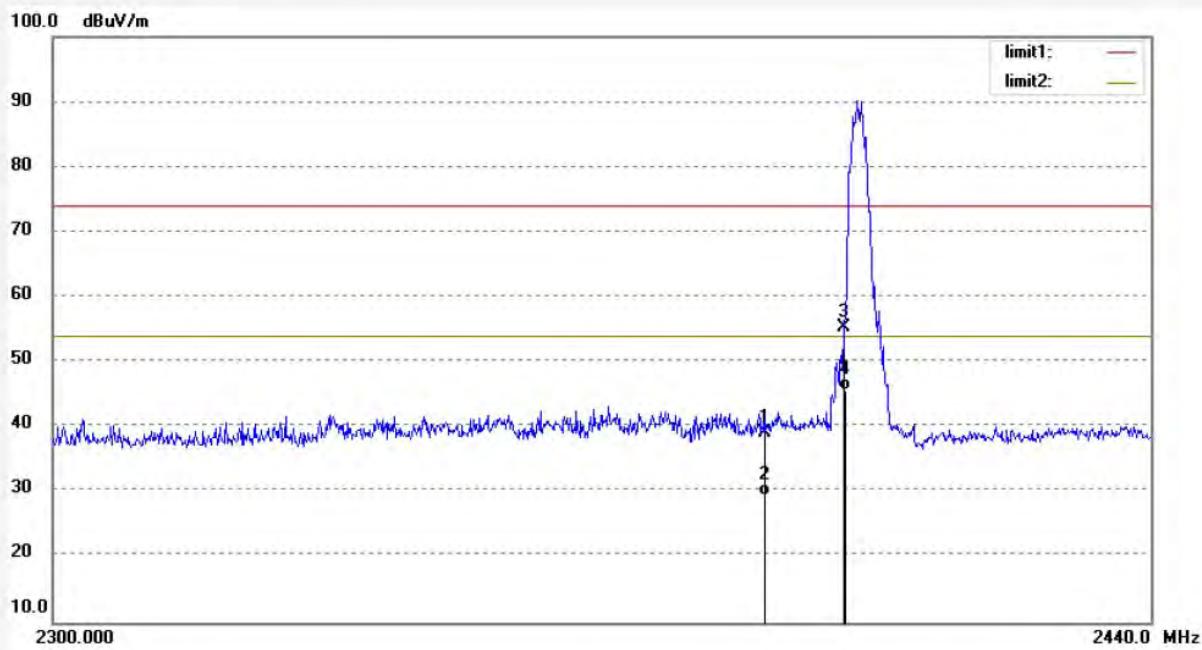


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Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR2015 #438	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/1/30/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 17/40/10
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: TX 2402MHz(GFSK)	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	
Note: Report NO.:ATE20160055	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	46.68	-7.53	39.15	74.00	-34.85	peak			
2	2390.000	36.97	-7.53	29.44	54.00	-24.56	AVG			
3	2400.000	62.85	-7.46	55.39	74.00	-18.61	peak			
4	2400.000	53.16	-7.46	45.70	54.00	-8.30	AVG			

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



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

Job No.: STAR2015 #439

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 16/1/30/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 17/44/18

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic Engineer Signature: Star

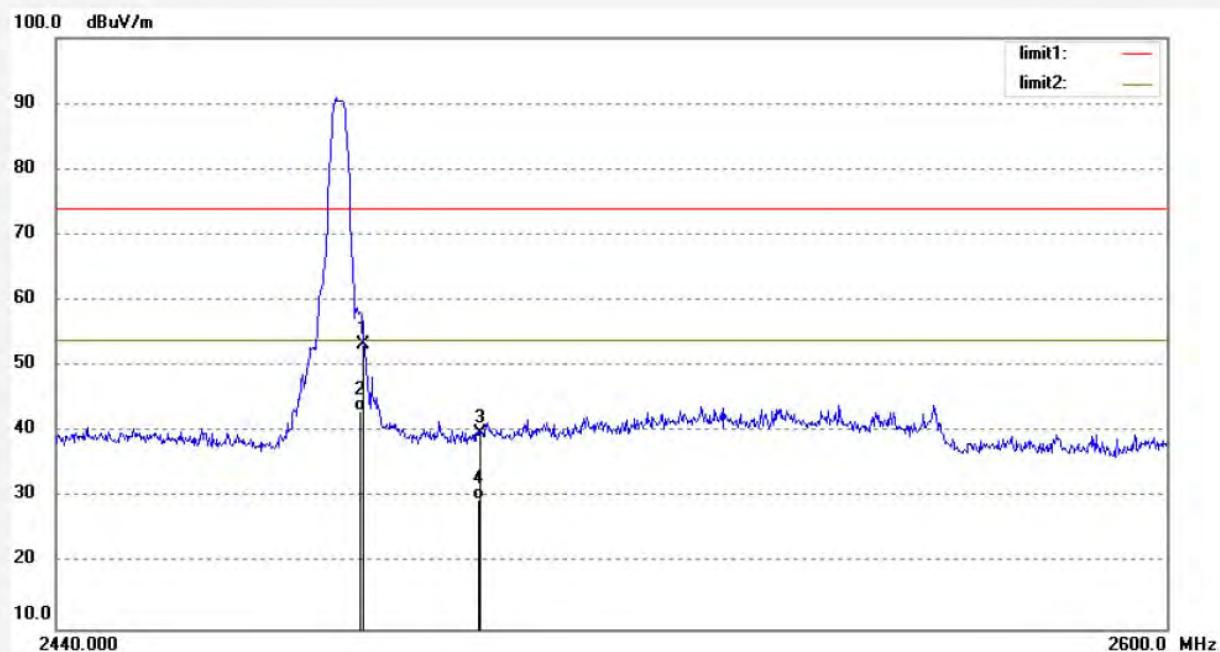
Mode: TX 2480MHz(GFSK)

Distance: 3m

Model: BTAE-12/6733

Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

Note: Report NO.:ATE20160055



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	60.78	-7.37	53.41	74.00	-20.59	peak			
2	2483.500	50.67	-7.37	43.30	54.00	-10.70	AVG			
3	2500.000	47.31	-7.40	39.91	74.00	-34.09	peak			
4	2500.000	36.98	-7.40	29.58	54.00	-24.42	AVG			

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

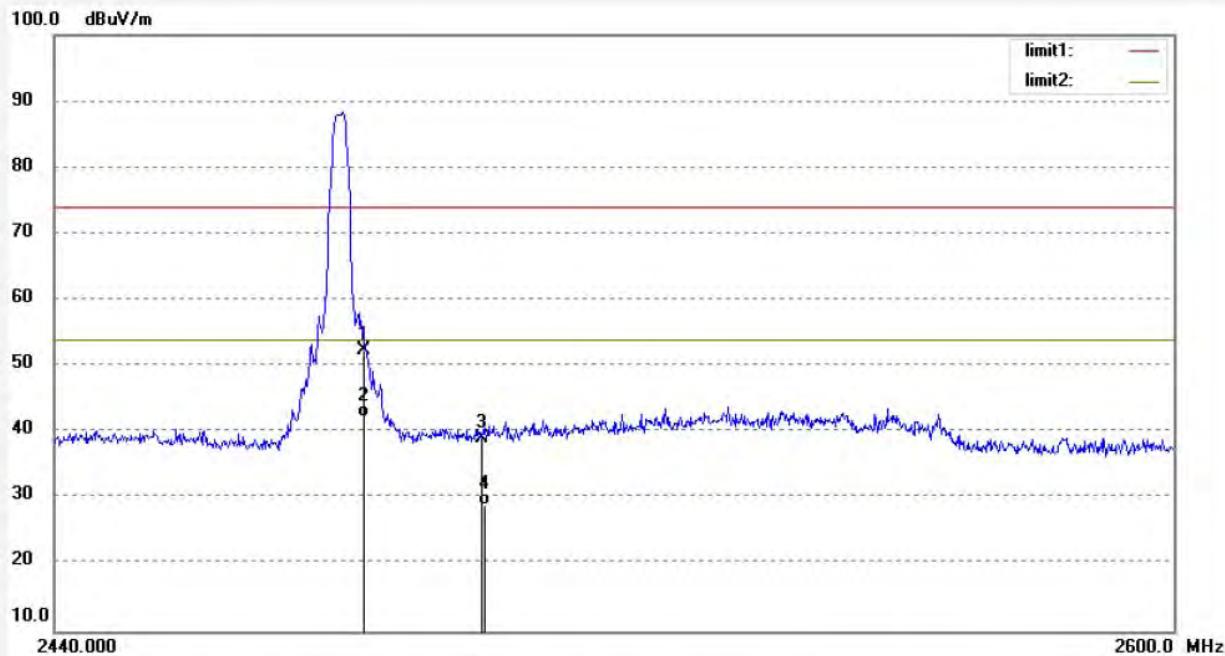


## ACCURATE TECHNOLOGY CO., LTD.

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.: STAR2015 #440	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/1/30/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 17:49:42
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: TX 2480MHz(GFSK)	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	
Note: Report NO.:ATE20160055	



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	59.76	-7.37	52.39	74.00	-21.61	peak			
2	2483.500	49.67	-7.37	42.30	54.00	-11.70	AVG			
3	2500.000	46.51	-7.40	39.11	74.00	-34.89	peak			
4	2500.000	36.33	-7.40	28.93	54.00	-25.07	AVG			

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



## 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.: STAR2015 #441

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 16/1/30/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 17/53/18

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic Engineer Signature: Star

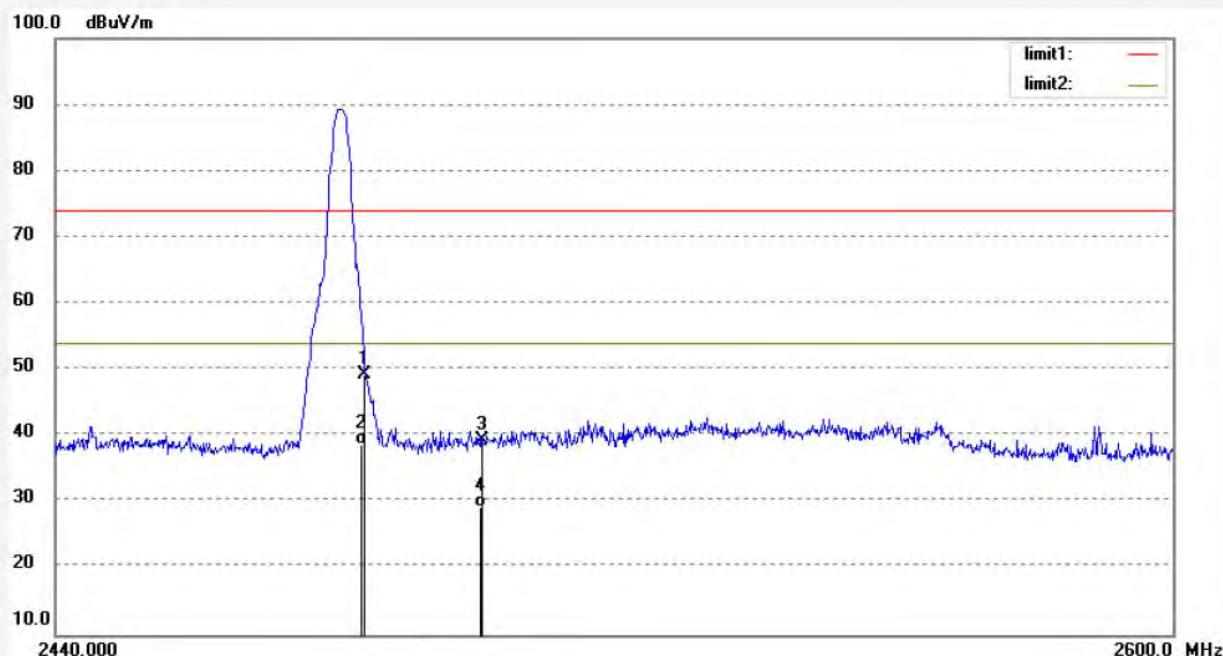
Mode: TX 2480MHz( $\pi/4$ -DQPSK)

Distance: 3m

Model: BTAE-12/6733

Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

Note: Report NO.:ATE20160055



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	56.61	-7.37	49.24	74.00	-24.76	peak			
2	2483.500	46.13	-7.37	38.76	54.00	-15.24	AVG			
3	2500.000	46.87	-7.40	39.47	74.00	-34.53	peak			
4	2500.000	36.72	-7.40	29.32	54.00	-24.68	AVG			

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

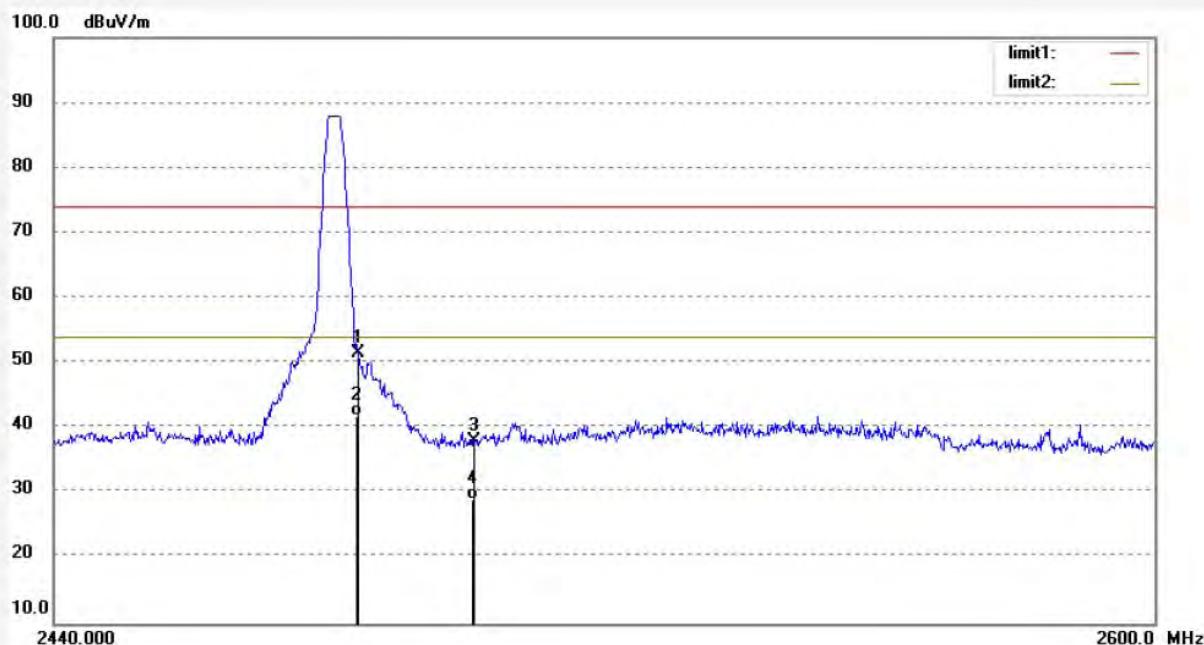


## ACCURATE TECHNOLOGY CO., LTD.

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.: STAR2015 #442	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/1/30/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 17/58/35
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: TX 2480MHz(Π/4-DQPSK)	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	
Note: Report NO.:ATE20160055	



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	58.83	-7.37	51.46	74.00	-22.54	peak			
2	2483.500	49.30	-7.37	41.93	54.00	-12.07	AVG			
3	2500.000	45.36	-7.40	37.96	74.00	-36.04	peak			
4	2500.000	36.46	-7.40	29.06	54.00	-24.94	AVG			

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

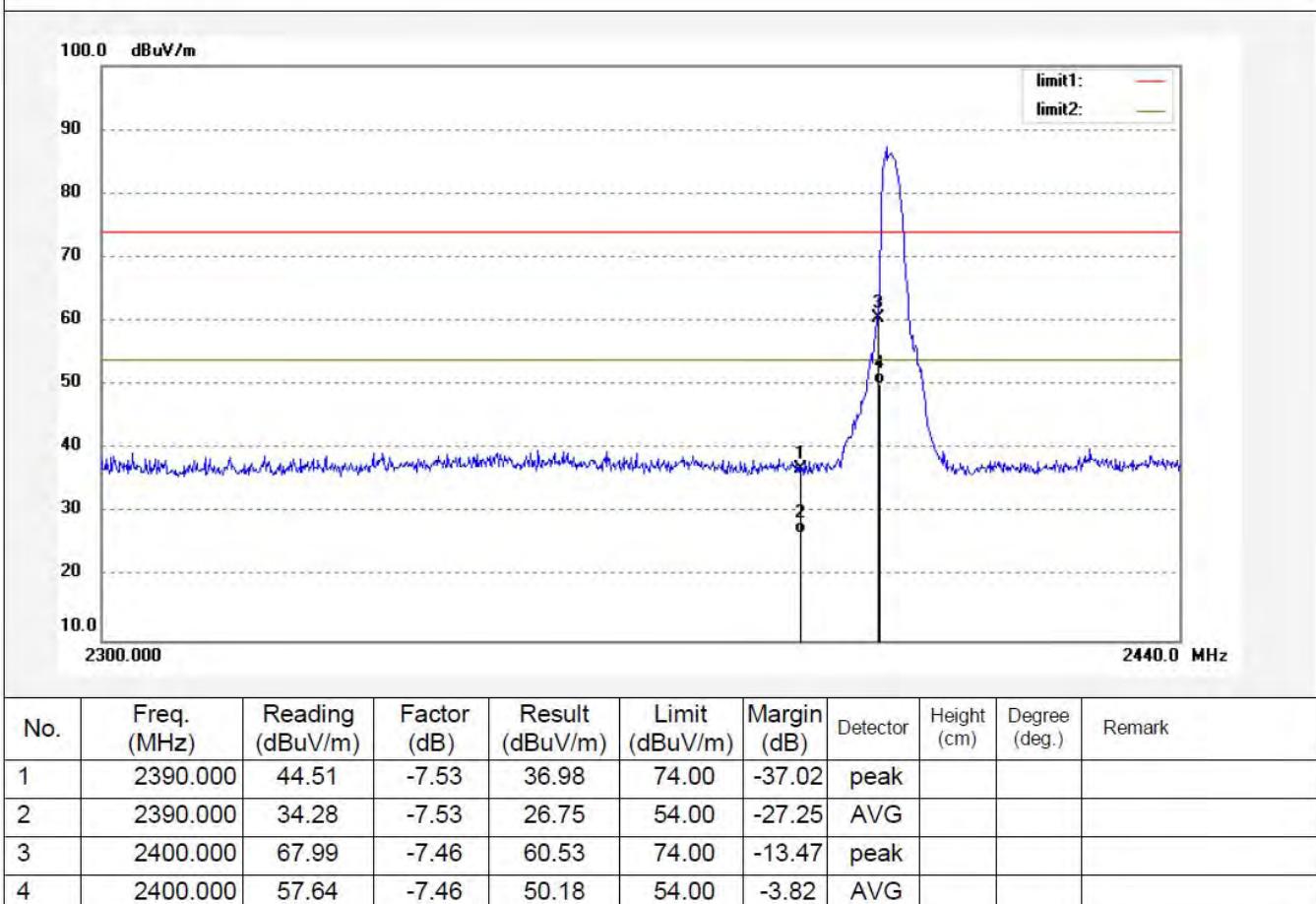


## ACCURATE TECHNOLOGY CO., LTD.

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.: STAR2015 #443	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/1/30/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 18/03/26
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: TX 2402MHz(1/4-DQPSK)	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	
Note: Report NO.:ATE20160055	



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



## 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.: STAR2015 #444

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 16/1/30/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 18/08/30

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic Engineer Signature: Star

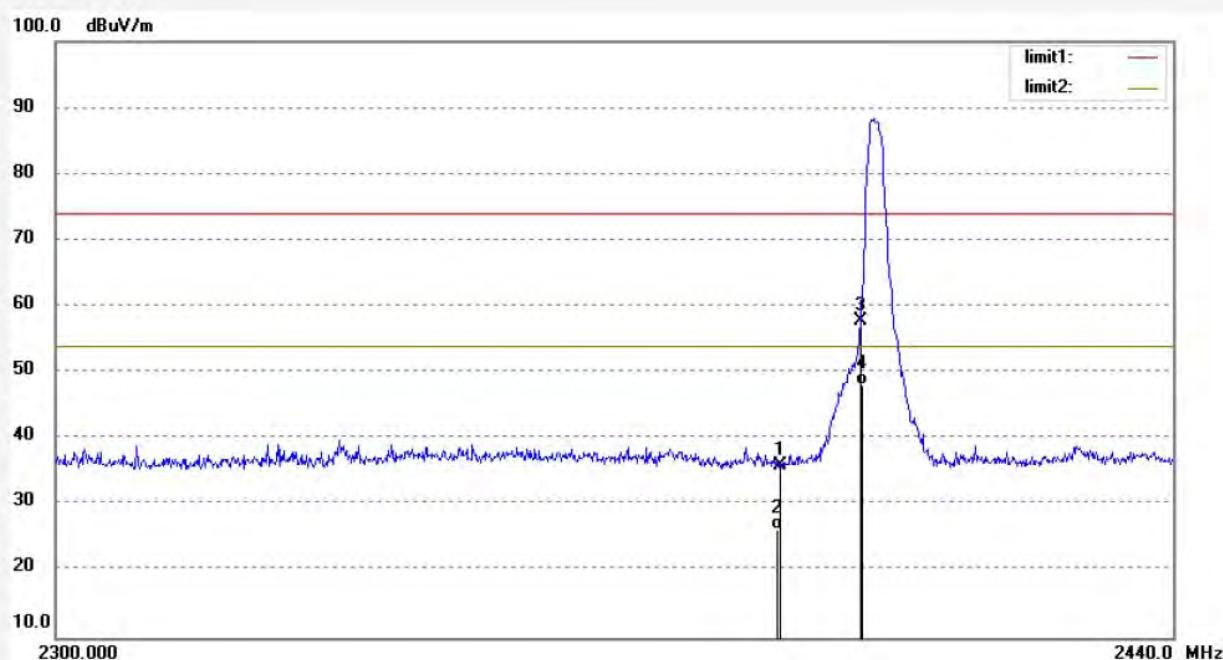
Mode: TX 2402MHz(1/4-DQPSK)

Distance: 3m

Model: BTAE-12/6733

Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

Note: Report NO.:ATE20160055



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.53	-7.53	36.00	74.00	-38.00	peak			
2	2390.000	33.76	-7.53	26.23	54.00	-27.77	AVG			
3	2400.000	65.33	-7.46	57.87	74.00	-16.13	peak			
4	2400.000	55.64	-7.46	48.18	54.00	-5.82	AVG			

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



## 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.: STAR2015 #445

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 16/1/30/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 18/13/57

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic Engineer Signature: Star

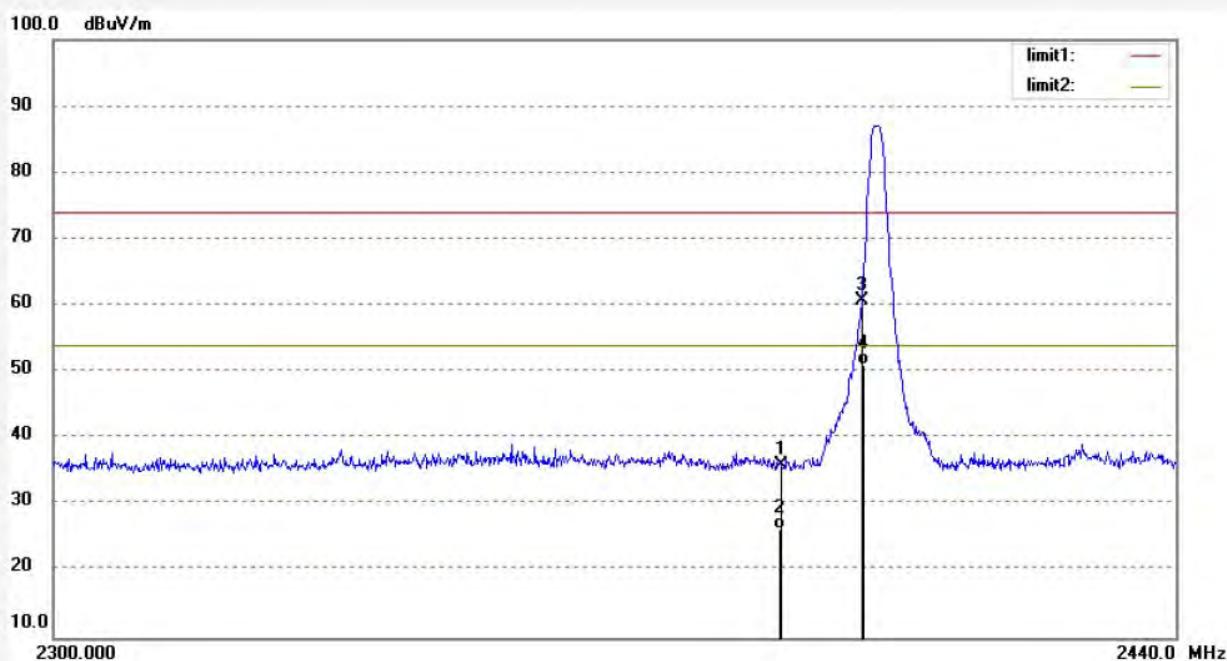
Mode: TX 2402MHz(8DPSK)

Distance: 3m

Model: BTAE-12/6733

Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

Note: Report NO.:ATE20160055



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.55	-7.53	36.02	74.00	-37.98	peak			
2	2390.000	33.81	-7.53	26.28	54.00	-27.72	AVG			
3	2400.000	68.21	-7.46	60.75	74.00	-13.25	peak			
4	2400.000	58.43	-7.46	50.97	54.00	-3.03	AVG			

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

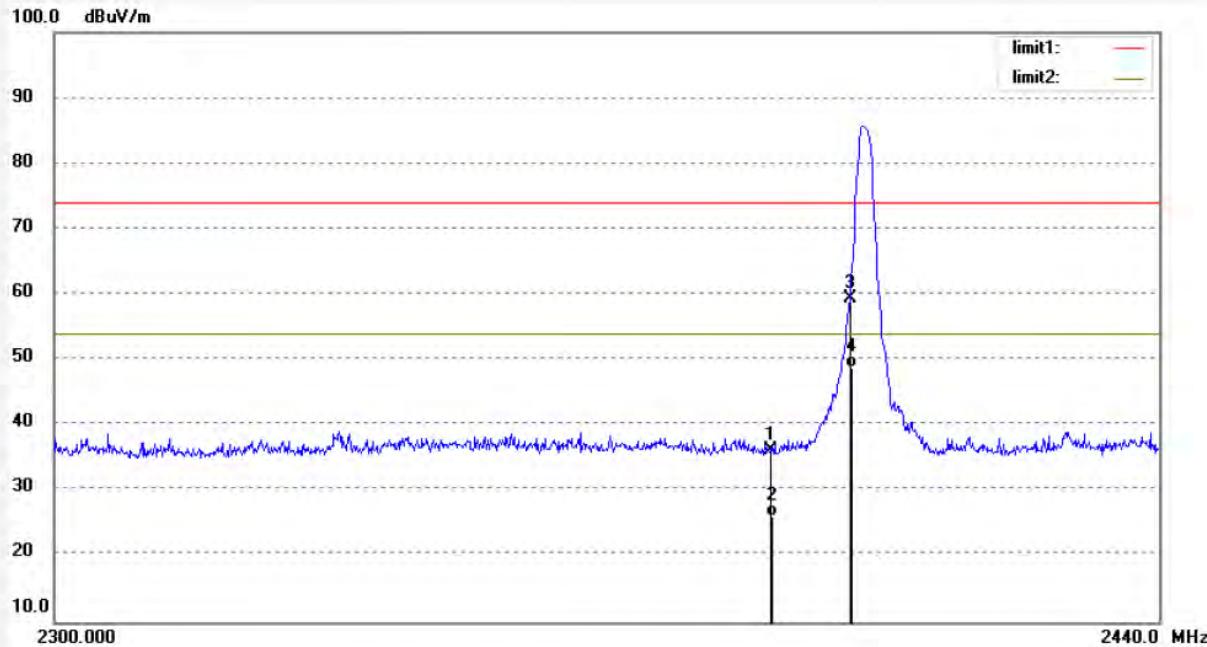


## ACCURATE TECHNOLOGY CO., LTD.

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.: STAR2015 #446	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/1/30/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 18/18/04
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: TX 2402MHz(8DPSK)	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	
Note: Report NO.:ATE20160055	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.78	-7.53	36.25	74.00	-37.75	peak			
2	2390.000	33.70	-7.53	26.17	54.00	-27.83	AVG			
3	2400.000	66.96	-7.46	59.50	74.00	-14.50	peak			
4	2400.000	56.30	-7.46	48.84	54.00	-5.16	AVG			

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



## 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.: STAR2015 #447

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 16/1/30/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 18/22/26

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic Engineer Signature: Star

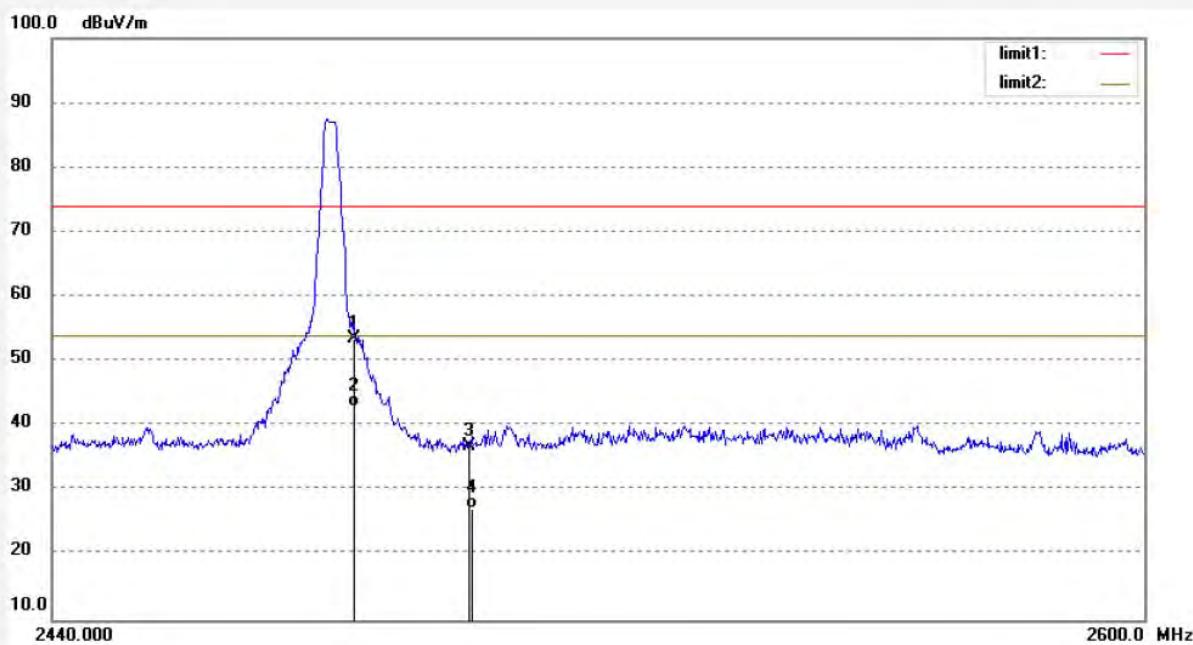
Mode: TX 2480MHz(8DPSK)

Distance: 3m

Model: BTAE-12/6733

Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

Note: Report NO.:ATE20160055



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	60.83	-7.37	53.46	74.00	-20.54	peak			
2	2483.500	50.40	-7.37	43.03	54.00	-10.97	AVG			
3	2500.000	44.36	-7.40	36.96	74.00	-37.04	peak			
4	2500.000	34.69	-7.40	27.29	54.00	-26.71	AVG			

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

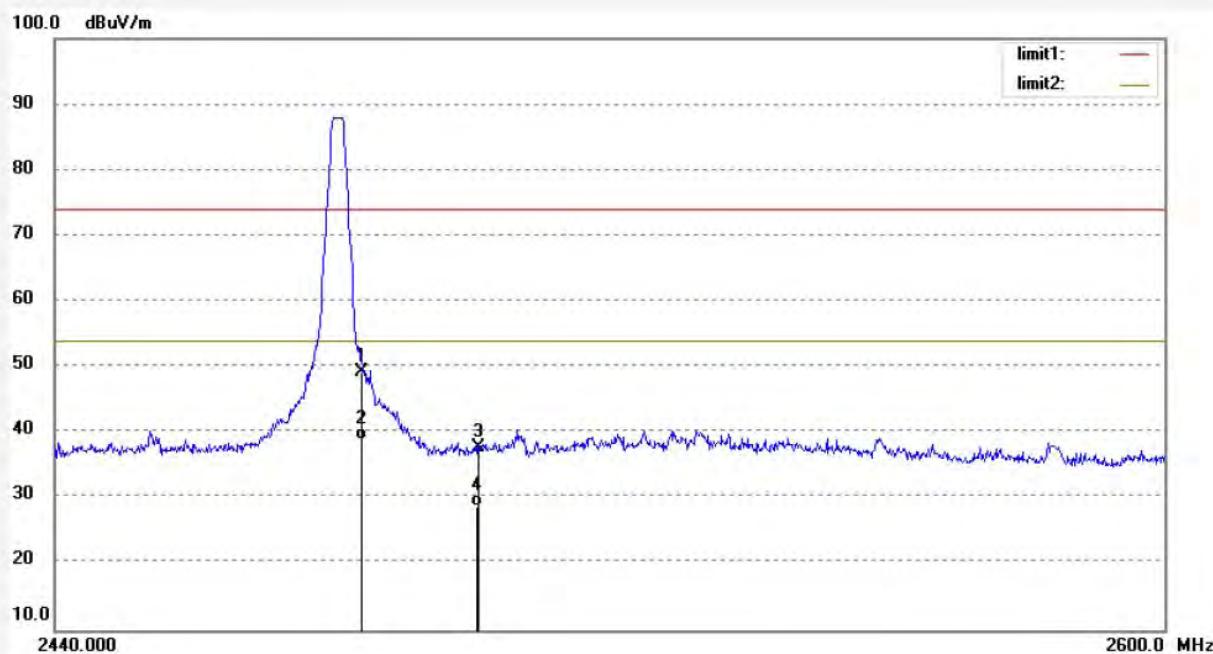


## ACCURATE TECHNOLOGY CO., LTD.

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.: STAR2015 #448	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/1/30/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 18/26/57
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: TX 2480MHz(8DPSK)	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	
Note: Report NO.:ATE20160055	



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	56.54	-7.37	49.17	74.00	-24.83	peak			
2	2483.500	46.28	-7.37	38.91	54.00	-15.09	AVG			
3	2500.000	45.16	-7.40	37.76	74.00	-36.24	peak			
4	2500.000	36.10	-7.40	28.70	54.00	-25.30	AVG			

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

## Hopping mode



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.: STAR2015 #449

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 16/1/30/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 18/30/00

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic Engineer Signature: Star

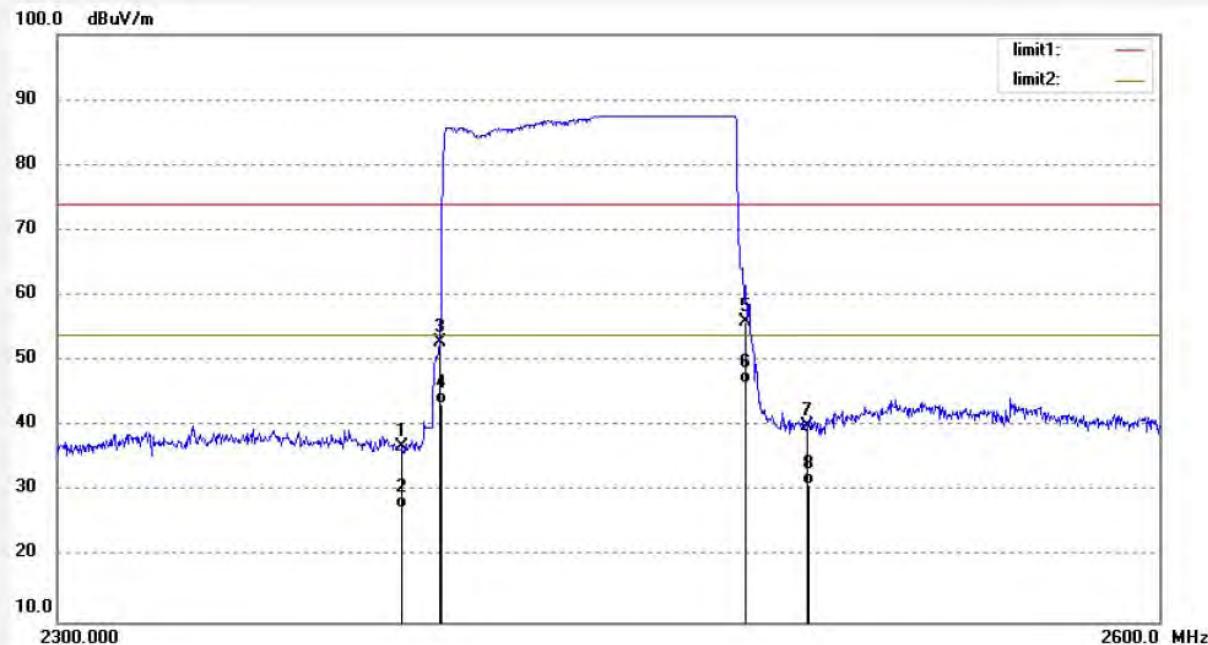
Mode: HOPPING (GFSK)

Distance: 3m

Model: BTAE-12/6733

Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

Note: Report NO.:ATE20160055



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	44.36	-7.53	36.83	74.00	-37.17	peak			
2	2390.000	34.89	-7.53	27.36	54.00	-26.64	AVG			
3	2400.000	60.26	-7.46	52.80	74.00	-21.20	peak			
4	2400.000	50.79	-7.46	43.33	54.00	-10.67	AVG			
5	2483.500	63.32	-7.37	55.95	74.00	-18.05	peak			
6	2483.500	53.97	-7.37	46.60	54.00	-7.40	AVG			
7	2500.000	47.45	-7.40	40.05	74.00	-33.95	peak			
8	2500.000	38.37	-7.40	30.97	54.00	-23.03	AVG			

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

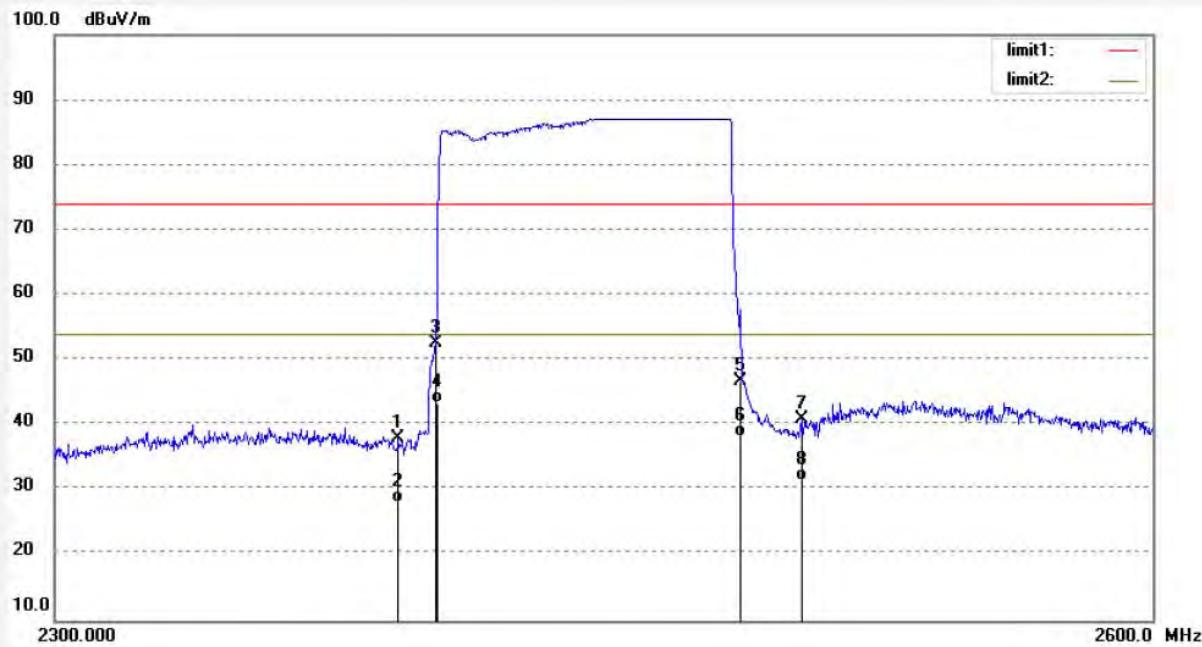


## ACCURATE TECHNOLOGY CO., LTD.

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.:	STAR2015 #450	Polarization:	Horizontal
Standard:	FCC PK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	16/1/30/
Temp.( C)/Hum.(%)	23 C / 48 %	Time:	18/33/50
EUT:	BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature:	Star
Mode:	HOPPING (GFSK)	Distance:	3m
Model:	BTAE-12/6733		
Manufacturer:	CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.		
Note:	Report NO.:ATE20160055		



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	45.48	-7.53	37.95	74.00	-36.05	peak			
2	2390.000	35.69	-7.53	28.16	54.00	-25.84	AVG			
3	2400.000	60.00	-7.46	52.54	74.00	-21.46	peak			
4	2400.000	50.88	-7.46	43.42	54.00	-10.58	AVG			
5	2483.500	54.24	-7.37	46.87	74.00	-27.13	peak			
6	2483.500	45.67	-7.37	38.30	54.00	-15.70	AVG			
7	2500.000	48.28	-7.40	40.88	74.00	-33.12	peak			
8	2500.000	38.88	-7.40	31.48	54.00	-22.52	AVG			

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

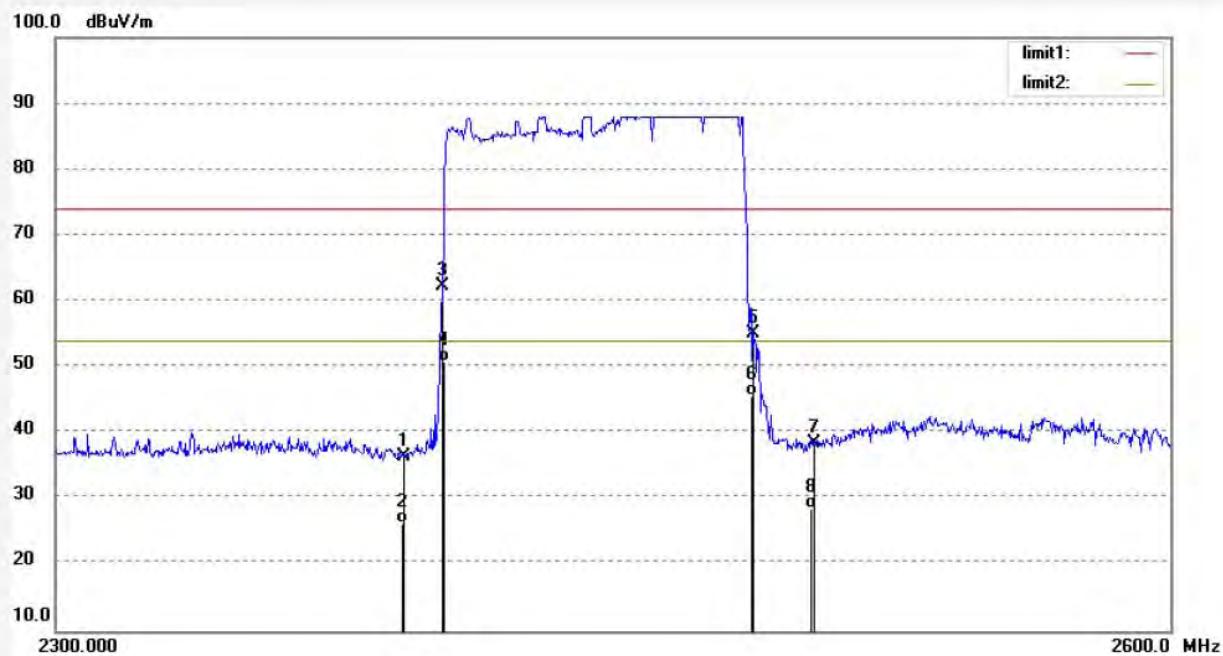


## ACCURATE TECHNOLOGY CO., LTD.

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.: STAR2015 #451	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/1/30/
Temp. ( C)/Hum.(%) 23 C / 48 %	Time: 18/37/25
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: HOPPING ( $\Delta$ /4-DQPSK)	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	
Note: Report NO.:ATE20160055	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.96	-7.53	36.43	74.00	-37.57	peak			
2	2390.000	33.76	-7.53	26.23	54.00	-27.77	AVG			
3	2400.000	69.87	-7.46	62.41	74.00	-11.59	peak			
4	2400.000	58.30	-7.46	50.84	54.00	-3.16	AVG			
5	2483.500	62.38	-7.37	55.01	74.00	-18.99	peak			
6	2483.500	52.97	-7.37	45.60	54.00	-8.40	AVG			
7	2500.000	45.96	-7.40	38.56	74.00	-35.44	peak			
8	2500.000	35.99	-7.40	28.59	54.00	-25.41	AVG			

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

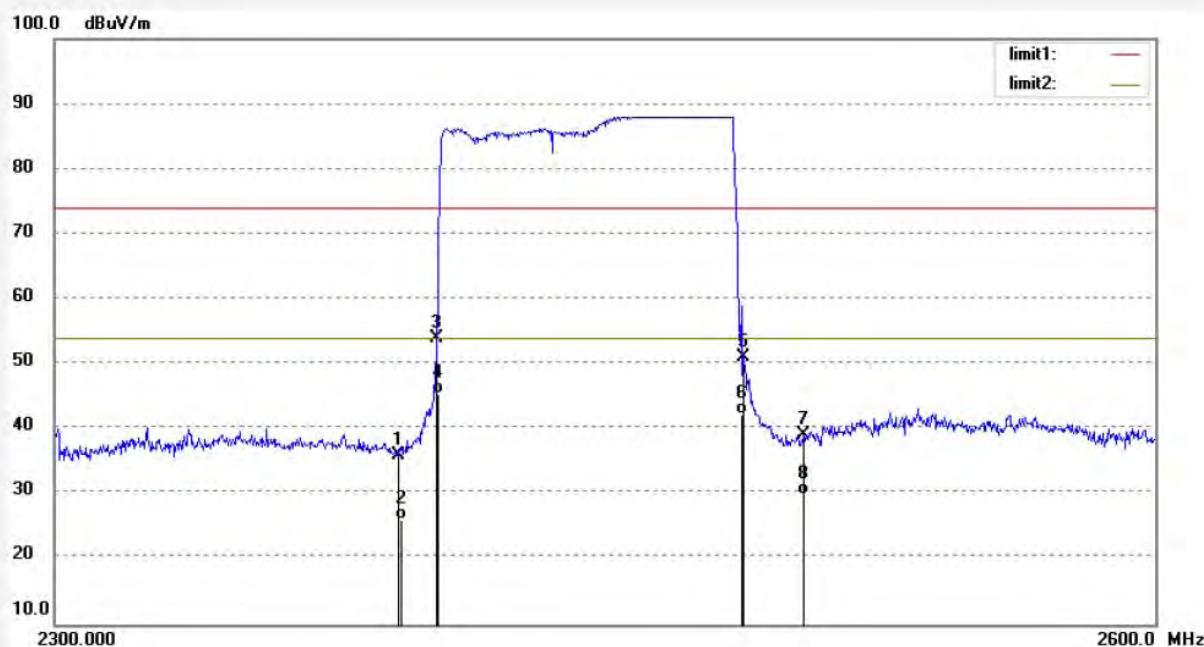


## ACCURATE TECHNOLOGY CO., LTD.

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.: STAR2015 #452	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/1/30/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 18/4/09
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: HOPPING ( $\pi/4$ -DQPSK)	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	
Note: Report NO.:ATE20160055	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.49	-7.53	35.96	74.00	-38.04	peak			
2	2390.000	33.69	-7.53	26.16	54.00	-27.84	AVG			
3	2400.000	61.55	-7.46	54.09	74.00	-19.91	peak			
4	2400.000	52.79	-7.46	45.33	54.00	-8.67	AVG			
5	2483.500	58.47	-7.37	51.10	74.00	-22.90	peak			
6	2483.500	49.64	-7.37	42.27	54.00	-11.73	AVG			
7	2500.000	46.56	-7.40	39.16	74.00	-34.84	peak			
8	2500.000	37.38	-7.40	29.98	54.00	-24.02	AVG			

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

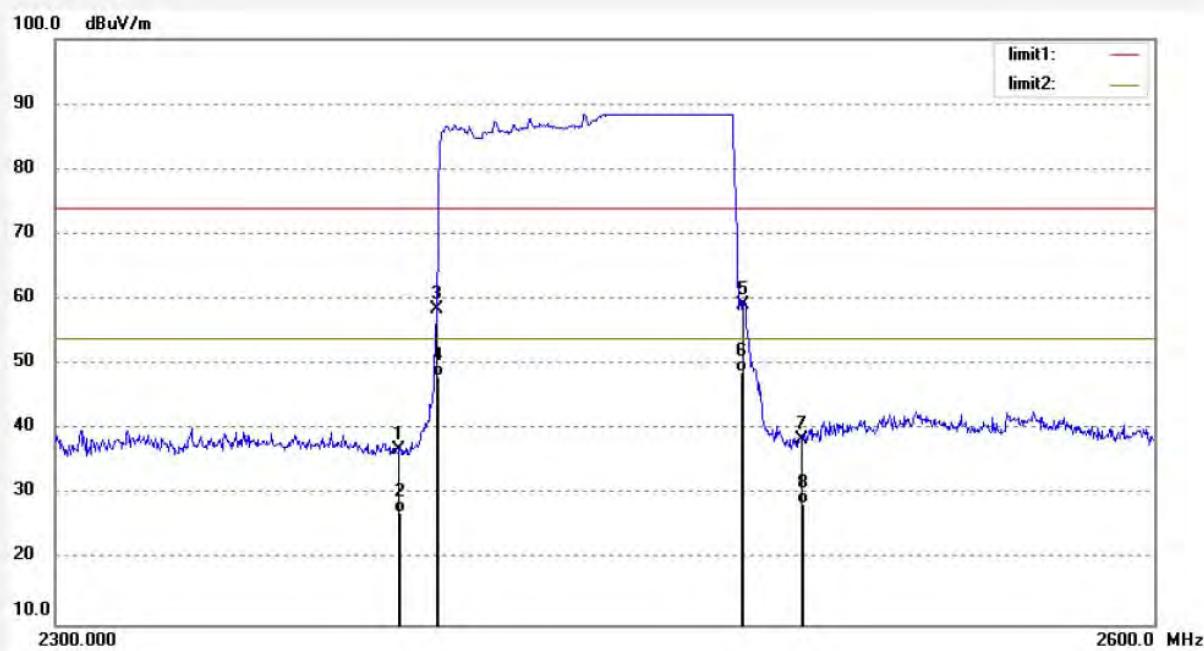


## ACCURATE TECHNOLOGY CO., LTD.

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.: STAR2015 #453	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/1/30/
Temp.( C)/Hum.(%) 23 C / 48 %	Time: 18/44/59
EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic	Engineer Signature: Star
Mode: HOPPING (8DPSK)	Distance: 3m
Model: BTAE-12/6733	
Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.	
Note: Report NO.:ATE20160055	



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	44.31	-7.53	36.78	74.00	-37.22	peak			
2	2390.000	34.69	-7.53	27.16	54.00	-26.84	AVG			
3	2400.000	65.84	-7.46	58.38	74.00	-15.62	peak			
4	2400.000	55.55	-7.46	48.09	54.00	-5.91	AVG			
5	2483.500	66.61	-7.37	59.24	74.00	-14.76	peak			
6	2483.500	56.17	-7.37	48.80	54.00	-5.20	AVG			
7	2500.000	45.87	-7.40	38.47	74.00	-35.53	peak			
8	2500.000	35.88	-7.40	28.48	54.00	-25.52	AVG			

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



## 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.: STAR2015 #454

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 16/1/30/

Temp.( C)/Hum.(%) 23 C / 48 %

Time: 18/47/18

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic Engineer Signature: Star

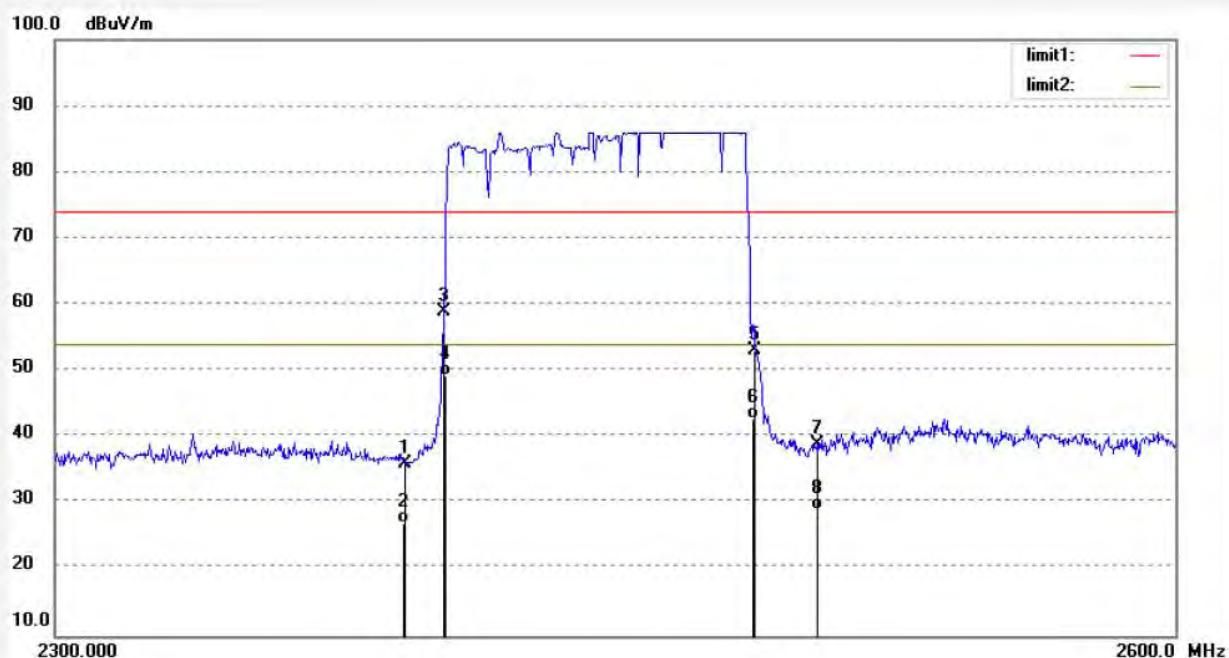
Mode: HOPPING (8DPSK)

Distance: 3m

Model: BTAE-12/6733

Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.

Note: Report NO.:ATE20160055



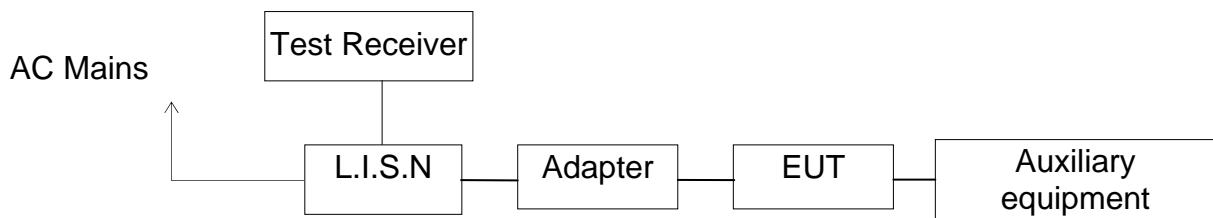
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.55	-7.53	36.02	74.00	-37.98	peak			
2	2390.000	34.62	-7.53	27.09	54.00	-26.91	AVG			
3	2400.000	66.47	-7.46	59.01	74.00	-14.99	peak			
4	2400.000	56.79	-7.46	49.33	54.00	-4.67	AVG			
5	2483.500	60.54	-7.37	53.17	74.00	-20.83	peak			
6	2483.500	50.22	-7.37	42.85	54.00	-11.15	AVG			
7	2500.000	46.21	-7.40	38.81	74.00	-35.19	peak			
8	2500.000	36.43	-7.40	29.03	54.00	-24.97	AVG			

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

## 12.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

### 15 SECTION 15.207(A)

#### 12.1.Block Diagram of Test Setup



(EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with  
built-in mic)

#### 12.2.Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit dB( $\mu$ 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 following 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 5.1.

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 0.1m 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 C63.4: 2009 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

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

### 12.6.Power Line Conducted Emission Measurement Results

**PASS.**

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

Test mode : BT communicating(AC 120V/60Hz)  
EUT mode : BTAE-12/6733

**MEASUREMENT RESULT: "02030006\_fin"**

2016-1-30 10:17

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.600000	48.50	11.5	56	7.5	QP	N	GND
2.000000	48.60	11.7	56	7.4	QP	N	GND
2.270000	53.20	11.7	56	2.8	QP	N	GND

**MEASUREMENT RESULT: "02030006\_fin2"**

2016-1-30 10:17

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.802000	41.50	11.6	46	4.5	AV	N	GND
2.270000	44.00	11.7	46	2.0	AV	N	GND
2.337500	42.40	11.7	46	3.6	AV	N	GND

**MEASUREMENT RESULT: "02030007\_fin"**

2016-1-30 10:20

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.868000	45.00	11.6	56	11.0	QP	L1	GND
2.004500	48.80	11.7	56	7.2	QP	L1	GND
2.135000	47.00	11.7	56	9.0	QP	L1	GND

**MEASUREMENT RESULT: "02030007\_fin2"**

2016-1-30 10:20

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.600000	36.10	11.5	46	9.9	AV	L1	GND
2.139500	41.60	11.7	46	4.4	AV	L1	GND
2.274500	41.50	11.7	46	4.5	AV	L1	GND

Test mode : BT communicating(AC 240V/60Hz)  
EUT mode : BTAE-12/6733

**MEASUREMENT RESULT: "02030008\_fin"**

2016-1-30 15:18

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.660000	47.50	11.5	56	8.5	QP	N	GND
2.112500	49.80	11.7	56	6.2	QP	N	GND
3.233000	45.70	11.7	56	10.3	QP	N	GND

**MEASUREMENT RESULT: "02030008\_fin2"**

2016-1-30 15:18

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.660000	41.80	11.5	46	4.2	AV	N	GND
2.180000	44.20	11.7	46	1.8	AV	N	GND
3.237500	44.10	11.7	46	1.9	AV	N	GND

**MEASUREMENT RESULT: "02030011\_fin"**

2016-1-30 15:27

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.794000	48.00	11.6	56	8.0	QP	L1	GND
2.054000	50.00	11.7	56	6.0	QP	L1	GND
3.246500	51.90	11.7	56	4.1	QP	L1	GND

**MEASUREMENT RESULT: "02030011\_fin2"**

2016-1-30 15:27

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.796000	41.60	11.6	46	4.4	AV	L1	GND
2.117000	44.60	11.7	46	1.4	AV	L1	GND
3.251000	44.30	11.7	46	1.7	AV	L1	GND

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

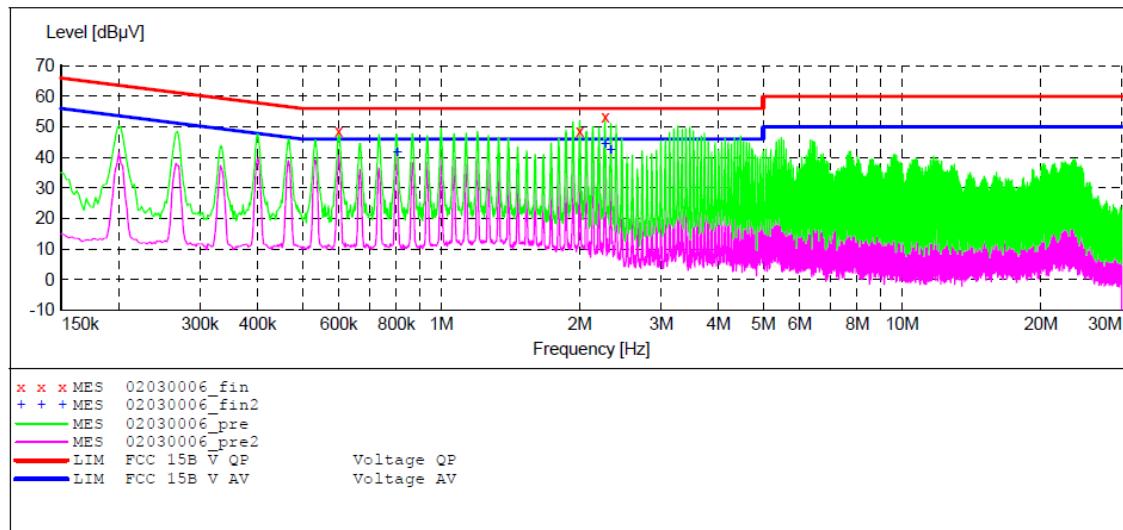
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic M/N:BTAE-12/6733  
 Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.  
 Operating Condition: BT communicating  
 Test Site: 2#Shielding Room  
 Operator: star  
 Test Specification: N 120V/60Hz  
 Comment: Report NO.:ATE20160055  
 Start of Test: 2016-1-30 / 10:15:16

**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 LISN(ESH3-Z5)  
 Average

**MEASUREMENT RESULT: "02030006\_fin"**

2016-1-30 10:17	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.600000	48.50	11.5	56	7.5	QP	N	GND
	2.000000	48.60	11.7	56	7.4	QP	N	GND
	2.270000	53.20	11.7	56	2.8	QP	N	GND

**MEASUREMENT RESULT: "02030006\_fin2"**

2016-1-30 10:17	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.802000	41.50	11.6	46	4.5	AV	N	GND
	2.270000	44.00	11.7	46	2.0	AV	N	GND
	2.337500	42.40	11.7	46	3.6	AV	N	GND

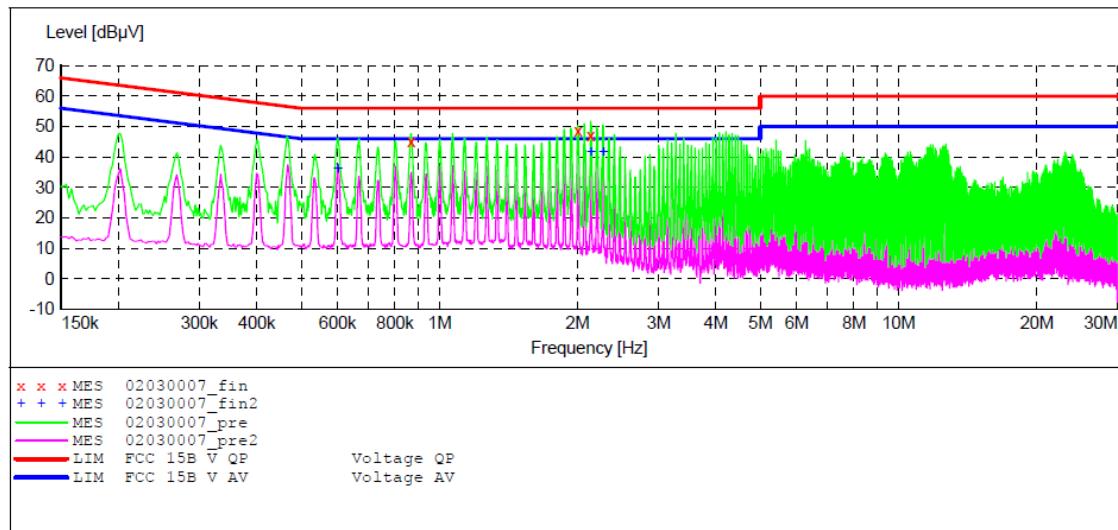
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic M/N:BTAE-12/6733  
 Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.  
 Operating Condition: BT communicating  
 Test Site: 2#Shielding Room  
 Operator: star  
 Test Specification: L 120V/60Hz  
 Comment: Report NO.:ATE20160055  
 Start of Test: 2016-1-30 / 10:18:17

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

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	LISN(ESH3-Z5)
						Average

**MEASUREMENT RESULT: "02030007\_fin"**

2016-1-30 10:20

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.868000	45.00	11.6	56	11.0	QP	L1	GND
2.004500	48.80	11.7	56	7.2	QP	L1	GND
2.135000	47.00	11.7	56	9.0	QP	L1	GND

**MEASUREMENT RESULT: "02030007\_fin2"**

2016-1-30 10:20

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.600000	36.10	11.5	46	9.9	AV	L1	GND
2.139500	41.60	11.7	46	4.4	AV	L1	GND
2.274500	41.50	11.7	46	4.5	AV	L1	GND

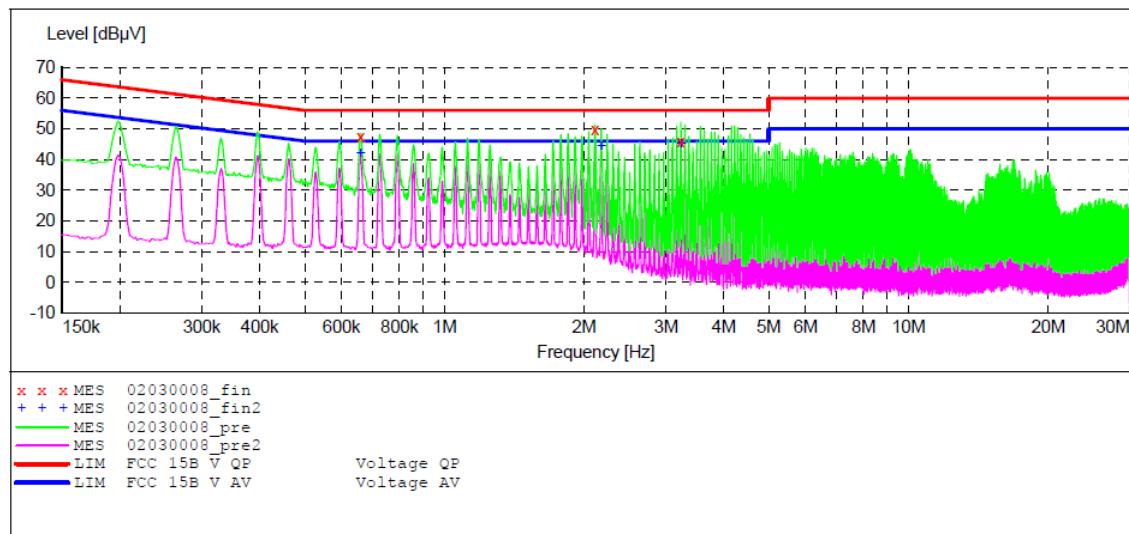
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic M/N:BTAE-12/6733  
 Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.  
 Operating Condition: BT communicating  
 Test Site: 2#Shielding Room  
 Operator: star  
 Test Specification: N 240V/60Hz  
 Comment: Report No.:ATE20160055  
 Start of Test: 2016-1-30 / 15:16:46

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

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer
150.0 kHz	30.0 MHz	4.0 kHz	QuasiPeak	1.0 s	9 kHz	LISN(ESH3-Z5)
						Average

**MEASUREMENT RESULT: "02030008\_fin"**

2016-1-30 15:18

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.660000	47.50	11.5	56	8.5	QP	N	GND
2.112500	49.80	11.7	56	6.2	QP	N	GND
3.233000	45.70	11.7	56	10.3	QP	N	GND

**MEASUREMENT RESULT: "02030008\_fin2"**

2016-1-30 15:18

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.660000	41.80	11.5	46	4.2	AV	N	GND
2.180000	44.20	11.7	46	1.8	AV	N	GND
3.237500	44.10	11.7	46	1.9	AV	N	GND

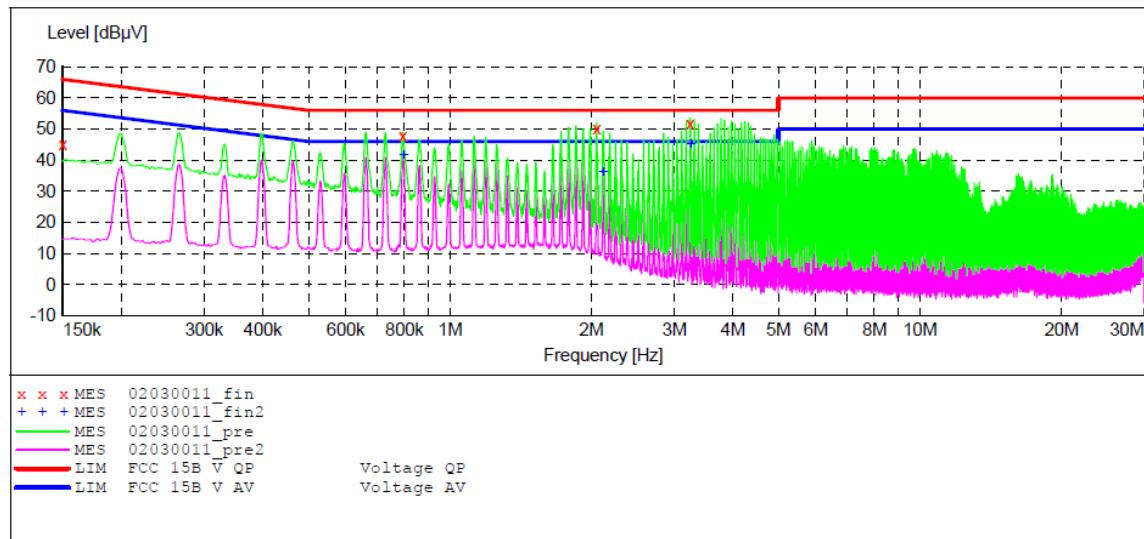
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: BLUETOOTH STEREO STAY-FIT EARBUDS with built-in mic M/N:BTAE-12/6733  
 Manufacturer: CLEVER BRIGHT INTERNATIONAL (H.K.) LTD.  
 Operating Condition: BT communicating  
 Test Site: 2#Shielding Room  
 Operator: star  
 Test Specification: L 240V/60Hz  
 Comment: Report No.:ATE20160055  
 Start of Test: 2016-1-30 / 15:25:14

**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 4.0 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)  
 Average

**MEASUREMENT RESULT: "02030011\_fin"**

2016-1-30 15:27

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.794000	48.00	11.6	56	8.0	QP	L1	GND
2.054000	50.00	11.7	56	6.0	QP	L1	GND
3.246500	51.90	11.7	56	4.1	QP	L1	GND

**MEASUREMENT RESULT: "02030011\_fin2"**

2016-1-30 15:27

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.796000	41.60	11.6	46	4.4	AV	L1	GND
2.117000	44.60	11.7	46	1.4	AV	L1	GND
3.251000	44.30	11.7	46	1.7	AV	L1	GND

## 13. ANTENNA REQUIREMENT

### 13.1. The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### 13.2. Antenna Construction

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

