







ISO/IEC17025Accredited Lab.

Report No.: FCC 1504055
File reference No.: 2015-04-11

Applicant: Dongguan Zhong Yao Electronics Technology CO., LTD.

Product: Bluetooth Keyboard

Model No.: B07-1; B05-1; B06-1; B08-1; B09-1; B10-1; B11-1; B12-1; B13-1

Trademark: N/A

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.247 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: April 11, 2015

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timewaytech.com

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.:899988.

IC- Registration No.: IC5205A-02

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration No.: IC 5205A-02.

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Room 512-519,5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen,

Guangdong China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-02

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: Dongguan Zhong Yao Electronics Technology CO., LTD.

Address: 3#, Yinhe Road 6, Shishuikou Villiage, Qiaotou Town, Dongguan, GuangDong, China

Telephone: 0769-82366018-818 Fax: 0769-82366028

1.3 Description of EUT

Product: Bluetooth Keyboard

Manufacturer: Dongguan Zhong Yao Electronics Technology CO., LTD.

Address: 3#, Yinhe Road 6, Shishuikou Villiage, Qiaotou Town, Dongguan,

GuangDong, China

Model Number: B07-1

Additional Model Number: B05-1;B06-1;B08-1;B09-1;B10-1;B11-1;B12-1;B13-1

Brand Name: N/A
Additional Brand Name: N/A

Type of Modulation GFSK, 月/4DQPSK, 8DPSK

Frequency range 2402-2480MHz

Number of Channel 79

Frequency Selection By software

Antenna type PCB Antenna used, the antenna gain is 0dBi

1.4 Submitted Sample: 1 Sample

The report refers only to the sample tested and does not apply to the bulk.

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1.5 Test Duration:

2015-04-03 to 2015-04-11

Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB Radiated Emissions Uncertainty =4.7dB

Test Engineer 1.7

Terry lang

The sample tested by

Print Name: Terry Tang

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| 2.0 Test Equipments | | | | | |
|------------------------|--------------|------------|-------------------|--------------|------------|
| Instrument Type | Manufacturer | Model | Serial No. | Date of Cal. | Due Date |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2014-08-21 | 2015-08-20 |
| TWO Line-V-NETW | R&S | EZH3-Z5 | 100294 | 2014-08-22 | 2015-08-21 |
| TWO Line-V-NETW | R&S | EZH3-Z5 | 100253 | 2014-08-22 | 2015-08-21 |
| Ultra Broadband ANT | R&S | HL562 | 100157 | 2014-08-23 | 2015-08-22 |
| ESDV Test Receiver | R&S | ESDV | 100008 | 2014-08-22 | 2015-08-21 |
| Impuls-Begrenzer | R&S | ESH3-Z2 | 100281 | 2014-08-21 | 2015-08-20 |
| System Controller | CT | SC100 | - | | |
| Printer | EPSON | РНОТО ЕХЗ | CFNH234850 | | - |
| Computer | IBM | 8434 | 1S8434KCE99BLXLO* | - | ı |
| Loop Antenna | EMCO | 6502 | 00042960 | 2014-08-22 | 2015-08-21 |
| ESPI Test Receiver | R&S | ESI26 | 838786/013 | 2014-08-22 | 2015-08-21 |
| 3m OATS | - | | N/A | 2014-08-21 | 2015-08-20 |
| Horn Antenna | R&S | BBHA 9170 | BBHA9170265 | 2014-08-23 | 2015-08-22 |
| Horn Antenna | R&S | BBHA 9120D | 9120D-631 | 2014-08-23 | 2015-08-22 |
| Power meter | Anritsu | ML2487A | 6K00003613 | 2014-08-22 | 2015-08-21 |
| Power sensor | Anritsu | MA2491A | 32263 | 2014-08-22 | 2015-08-21 |
| Bilog Antenna | Schwarebeck | VULB9163 | 9163/340 | 2014-08-23 | 2015-08-22 |
| LISN | AFJ | LS16C | 10010947251 | 2014-08-21 | 2015-08-20 |
| LISN (Three Phase) | Schwarebeck | NSLK 8126 | 8126453 | 2014-08-22 | 2015-08-21 |
| 9*6*6 Anechoic | | | N/A | 2014-08-21 | 2015-08-20 |
| EMI Test Receiver | RS | ESCS30 | 100139 | 2014-08-22 | 2015-08-21 |

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3.0 **Technical Details**

3.1 **Summary of test results**

The EUT has been tested according to the following specifications:

| Requirement | CFR 47 Section | Result | Notes |
|-----------------------------------|------------------------------|--------|----------|
| Antenna Requirement | 15.203, 15.247(b)(4) | PASS | Complies |
| Maximum Peak Out Power | 15.247 (b)(1), (4) | PASS | Complies |
| Carrier Frequency Separation | 15.247(a)(1) | PASS | Complies |
| 20dB Channel Bandwidth | 15.247 (a)(1) | PASS | Complies |
| Number of Hopping Channels | 15.247(a)(iii), 15.247(b)(1) | PASS | Complies |
| Time of Occupancy (Dwell Time) | 15.247(a)(iii) | PASS | Complies |
| Spurious Emission, Band Edge, and | 15.247(d),15.205(a), | PASS | Complies |
| Restricted bands | 15.209 (a),15.109 | | |
| Conducted Emissions | 15.207(a), 15.107 | PASS | Complies |
| RF Exposure | 15.247(i), 1.1307(b)(1) | PASS | Complies |

3.2 **Test Standards**

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 **EUT Modification**

No modification by Shenzhen Timeway Technology Consulting Co., Ltd

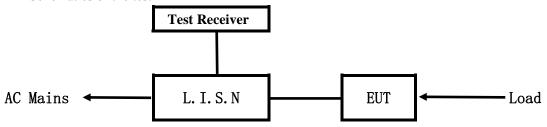
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

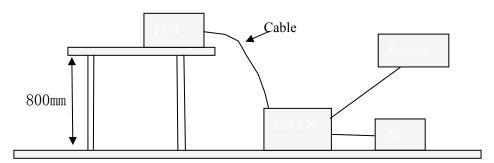


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2009.

Test Voltage: 120V~60Hz Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

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A. EUT

| Device | Manufacturer | Model | FCC ID |
|-----------|--------------------------------|--------------------------------|-------------|
| Bluetooth | Dongguan Zhong Yao Electronics | B07-1;B05-1;B06-1;B08-1;B09-1; | 2AEID-B07-1 |
| Keyboard | Technology CO., LTD. | B10-1;B11-1;B12-1;B13-1 | |

B. Internal Device

| Device | Manufacturer | Model | FCC ID/DOC |
|--------|--------------|-------|------------|
| N/A | | | |

C. Peripherals

| Device | Manufacturer | Model | FCC ID/DOC | Cable |
|--------|--------------|------------------|------------|-------|
| Power | GME | GFP101U-050200-Q | VOC | |
| Supply | | | | |

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10 -2013.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.107, 15.207

| Frequency | Class A Lim | its (dB µ V) | Class B Limits (dB µ V) | | |
|------------------|------------------|---------------|-------------------------|---------------|--|
| (MHz) | Quasi-peak Level | Average Level | Quasi-peak Level | Average Level | |
| $0.15 \sim 0.50$ | 79.0 | 66.0 | 66.0~56.0* | 56.0~46.0* | |
| $0.50 \sim 5.00$ | 73.0 | 60.0 | 56.0 | 46.0 | |
| 5.00 ~ 30.00 | 73.0 | 60.0 | 60.0 | 50.0 | |

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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Conducted Emission on Live Terminal (150kHz to 30MHz) A:

EUT Operating Environment

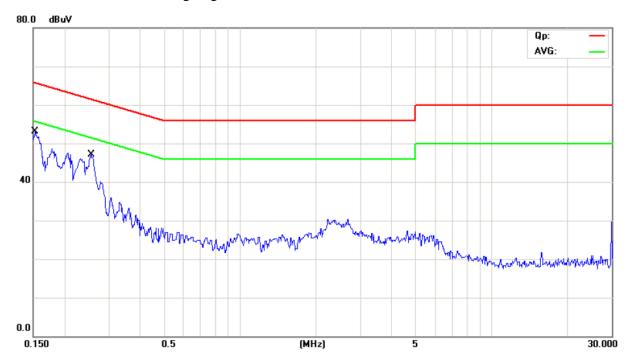
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Keep Bluetooth Transmitting

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.1526 | 38.50 | 11.00 | 49.50 | 65.86 | -16.36 | QP | |
| 2 | | 0.1526 | 19.50 | 11.00 | 30.50 | 55.86 | -25.36 | AVG | |
| 3 | | 0.2567 | 32.80 | 11.11 | 43.91 | 61.54 | -17.63 | QP | |
| 4 | | 0.2567 | 18.20 | 11.11 | 29.31 | 51.54 | -22.23 | AVG | |

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Conducted Emission on Neutral Terminal (150kHz to 30MHz) B:

EUT Operating Environment

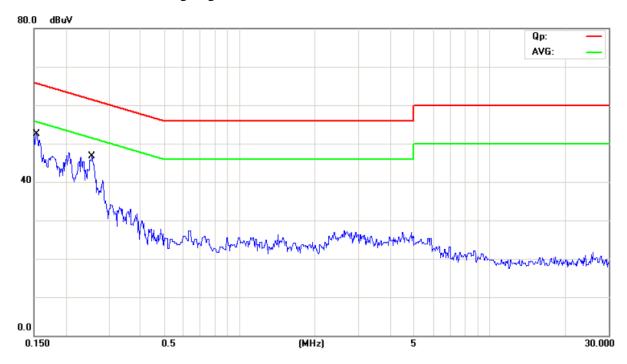
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Charging and Keep Bluetooth Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBu∀ | dBuV | dB | Detector | Comment |
| 1 | | 0.1535 | 37.80 | 11.00 | 48.80 | 65.81 | -17.01 | QP | |
| 2 | | 0.1535 | 19.50 | 11.00 | 30.50 | 55.81 | -25.31 | AVG | |
| 3 | * | 0.2560 | 34.20 | 11.11 | 45.31 | 61.56 | -16.25 | QP | |
| 4 | | 0.2560 | 17.60 | 11.11 | 28.71 | 51.56 | -22.85 | AVG | |

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6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10 –2013. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup Distance = 3m Computer Pre -Amplifier EUT Turn-table Receiver

- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition
 Same as section 5.4 of this report.

The report refers only to the sample tested and does not apply to the bulk.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.109. 15.209

| Frequency Range (MHz) | Distance (m) | Field strength (dB µ V/m) |
|-----------------------|--------------|---------------------------|
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

Note: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

- 2. In the Above Table, the higher limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. After pre-scanning, **GFSK** was the worse case. The test data of this mode was recorded.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/ In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

| Frequency (MHz) | Level@3m (dB \u03b4 V/m) | Antenna Polarity | Limit@3m (dB µ V/m) |
|-----------------|--------------------------|------------------|---------------------|
| 969.600 | 33.97 | Н | 46.00 |
| 32.000 | 29.59 | Н | 40.00 |
| | | | |
| 30.440 | 30.35 | V | 40.00 |
| 975.480 | 34.16 | V | 46.00 |

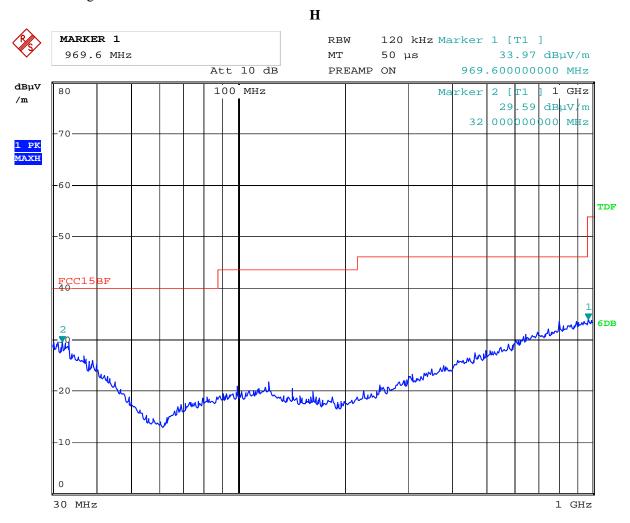
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Test Figure:



10.APR.2015 11:33:00 Date:

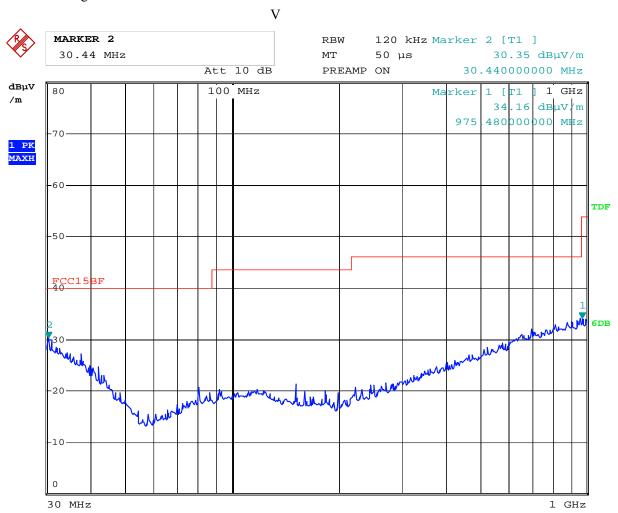
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Test Figure:



10.APR.2015 11:38:40 Date:

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Operation Mode: Transmitting under Low Channel (2402MHz)

| Frequency (MHz) | Level@3m (dB \u03b4 V/m) | Antenna Polarity | Limit@3m (dB µ V/m) |
|-----------------|--------------------------|------------------|---------------------|
| 4804 | 1 | Н | 74(Peak)/ 54(AV) |
| 4804 | • | V | 74(Peak)/ 54(AV) |
| 7206 | - | H/V | 74(Peak)/ 54(AV) |
| 9608 | - | H/V | 74(Peak)/ 54(AV) |
| 12010 | - | H/V | 74(Peak)/ 54(AV) |
| 14412 | - | H/V | 74(Peak)/ 54(AV) |
| 16814 | - | H/V | 74(Peak)/ 54(AV) |
| 19216 | - | H/V | 74(Peak)/ 54(AV) |
| 21618 | | H/V | 74(Peak)/ 54(AV) |
| 24020 | | H/V | 74(Peak)/ 54(AV) |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

Operation Mode: Transmitting g under Middle Channel (2441MHz)

| | 00 | , | <u> </u> |
|-----------------|--------------------------|------------------|-----------------------|
| Frequency (MHz) | Level@3m (dB \u03b4 V/m) | Antenna Polarity | Limit@3m (dB \mu V/m) |
| 4882 | 1 | Н | 74(Peak)/ 54(AV) |
| 4882 | 1 | V | 74(Peak)/ 54(AV) |
| 7323 | 1 | H/V | 74(Peak)/ 54(AV) |
| 9764 | | H/V | 74(Peak)/ 54(AV) |
| 12205 | 1 | H/V | 74(Peak)/ 54(AV) |
| 14646 | 1 | H/V | 74(Peak)/ 54(AV) |
| 17087 | 1 | H/V | 74(Peak)/ 54(AV) |
| 19528 | | H/V | 74(Peak)/ 54(AV) |
| 21969 | 1 | H/V | 74(Peak)/ 54(AV) |
| 24410 | | H/V | 74(Peak)/ 54(AV) |
| | | | |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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Operation Mode: Transmitting under High Channel (2480MHz)

| Frequency (MHz) | Level@3m (dB \u03b4 V/m) | Antenna Polarity | Limit@3m (dB µ V/m) |
|-----------------|--------------------------|------------------|---------------------|
| 4960 | 1 | Н | 74(Peak)/ 54(AV) |
| 4960 | • | V | 74(Peak)/ 54(AV) |
| 7440 | - | H/V | 74(Peak)/ 54(AV) |
| 9920 | - | H/V | 74(Peak)/ 54(AV) |
| 12400 | - | H/V | 74(Peak)/ 54(AV) |
| 14880 | | H/V | 74(Peak)/ 54(AV) |
| 17360 | | H/V | 74(Peak)/ 54(AV) |
| 19840 | - | H/V | 74(Peak)/ 54(AV) |
| 22320 | | H/V | 74(Peak)/ 54(AV) |
| 24800 | | H/V | 74(Peak)/ 54(AV) |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

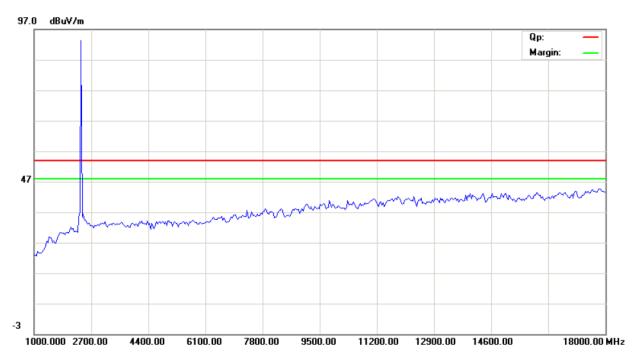
^{2.} Remark "---" means that the emissions level is too low to be measured

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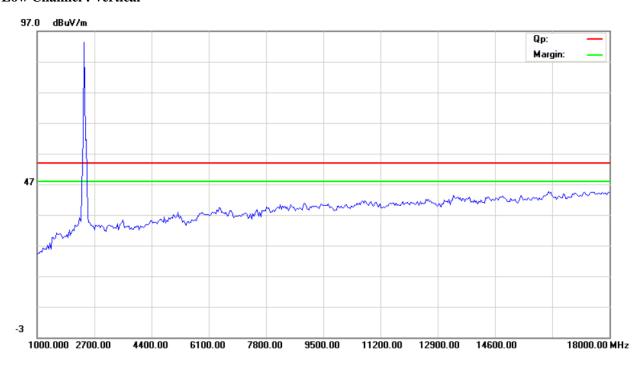


Please refer to the following test plots for details:

Low Channel: Horizontal



Low Channel: Vertical



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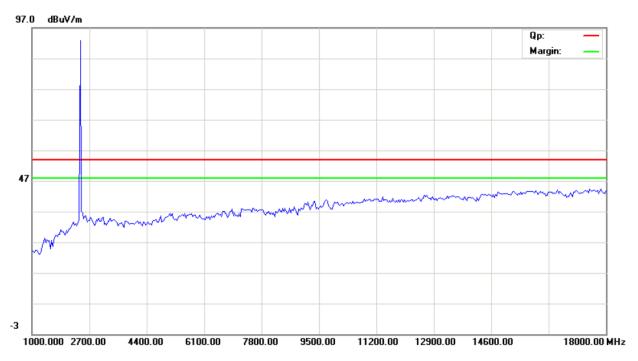
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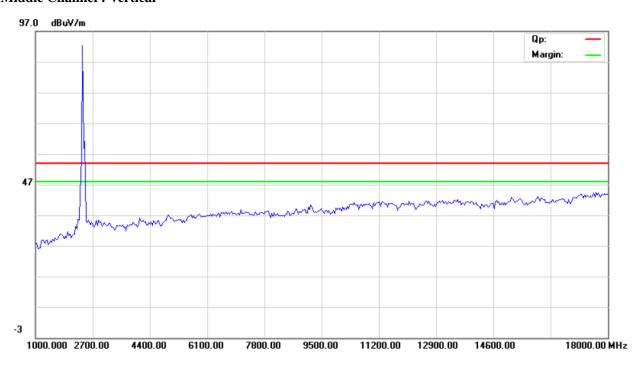
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Middle Channel: Horizontal



Middle Channel: Vertical



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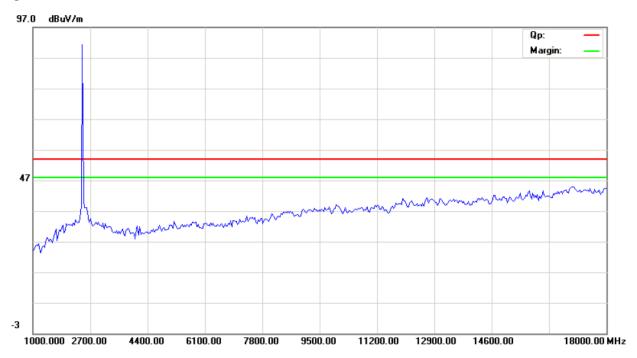
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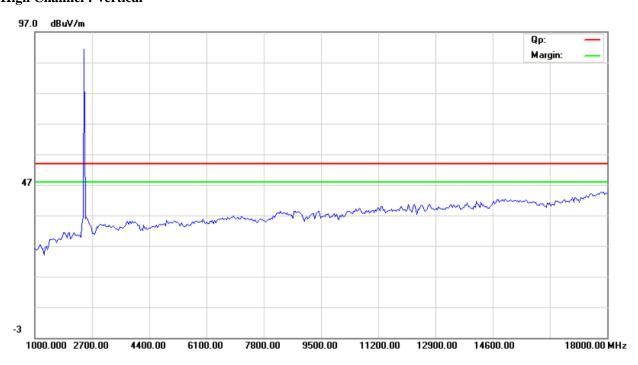
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High Channel: Horizontal



High Channel: Vertical



Note: for the radiated emissions above 18G, it is the floor noise.

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7.0 20dB Bandwidth Measurement

7.1 Regulation

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

7.2 Limits of 20dB Bandwidth Measurement

N/A

7.3 Test Procedure.

- 1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
- 2. Set the spectrum analyzer as follows: Span =3MHz, RBW =30 kHz, VBW=100 kHz, Sweep = auto Detector function = peak, Trace = max hold
- 3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

7.4 Test Result

Type of Modulation: GFSK

| EUT | Bluetooth Keyboard | Model | Model B07-1;B05-1;B06-1;B08-1;B09-1;B10-1;B11-1;B1 | | | |
|-------------|----------------------------|--------------------------|--|------------------------|------------|--|
| Mode | Keep Transmitting | Input Voltage | | DC3.7V | | |
| Temperature | 24 deg. C, | Humidity | Humidity 56% RH | | | |
| Channel | Channel Frequency (MHz) | 20 dB Bandwidth (kHz) | | Maximum Limit (kHz) | Pass/ Fail | |
| Low | 2402 | 871.7 | 4 | | Pass | |
| Middle | 2441 | 871.74 | | | Pass | |
| High | 2480 | 847.70 | | | Pass | |

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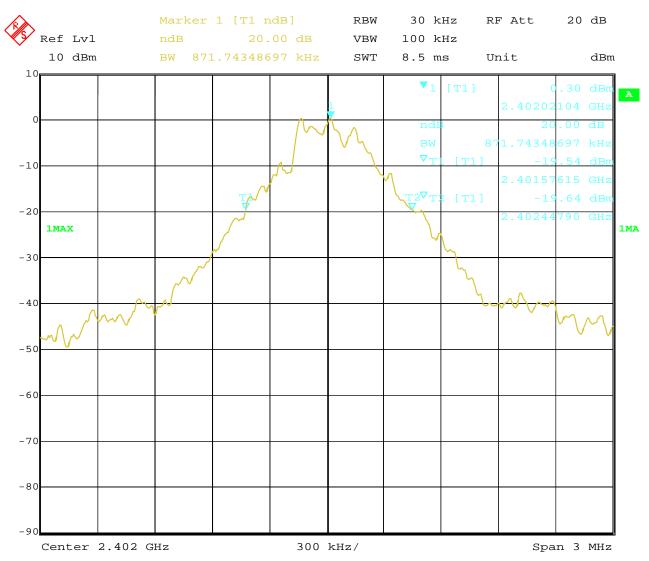
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Test Figure:

1. Condition: Low Channel

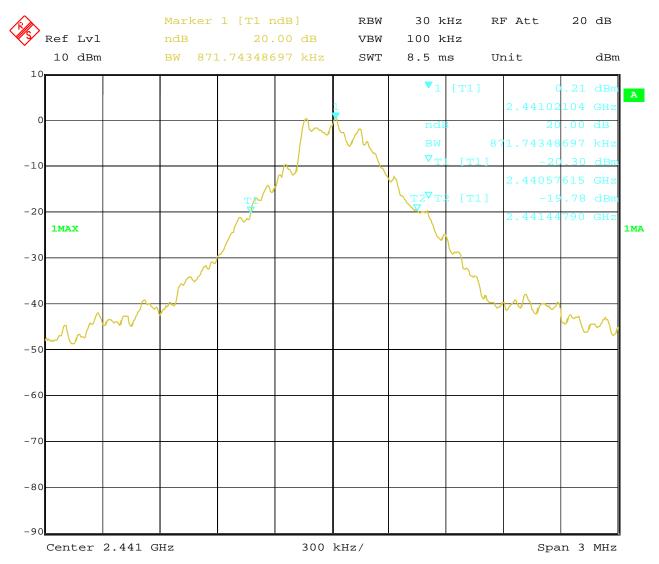


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2. Condition: Middle Channel



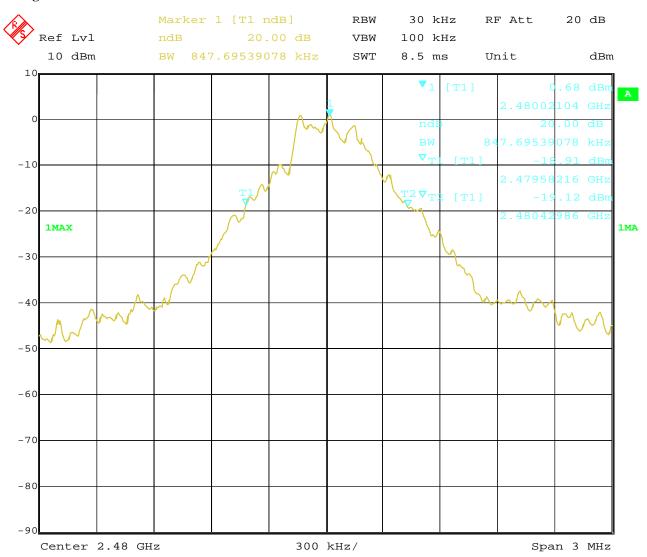
10.APR.2015 17:08:41 Date:

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3. High Channel



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Test Result

Type of Modulation: $\pi/4DQPSK$

| EUT | Blu | uetooth Keyboard | Model | B07-1;B0 | B07-1;B05-1;B06-1;B08-1;B09-1;B10-1;B11-1;B12-1;B13- | | | |
|-------------|------------------------|-------------------------------|-------------------|---------------------|--|------------|--|--|
| Mode | Mode Keep Transmitting | | Input Voltage | nput Voltage DC3.7V | | | | |
| Temperature | Temperature 24 deg. C, | | Humidity | Humidity 56% RH | | | | |
| Channel | | Channel Frequency (MHz) | 20 dB Ban (kHz | | Maximum Limit (kHz) | Pass/ Fail | | |
| Low 2402 | | 1220.44 | | | Pass | | | |
| Middle | | 2441 | 1214.4 | 43 | | Pass | | |
| High | | 2480 | 1214.43 | | | Pass | | |

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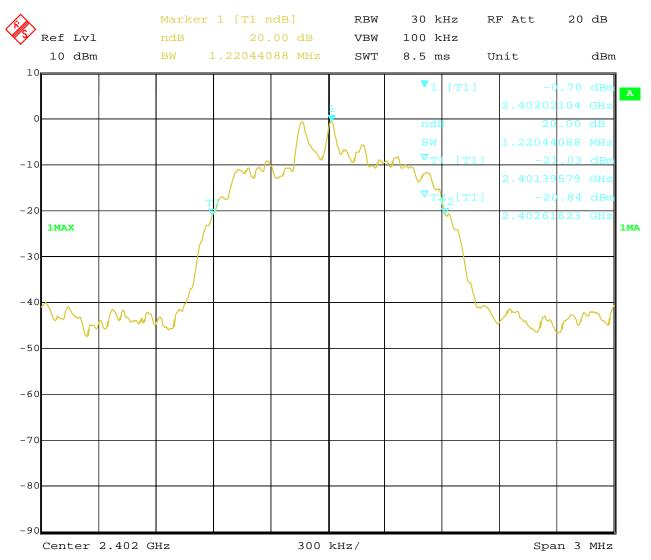
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Test Figure:

1. Condition: Low Channel



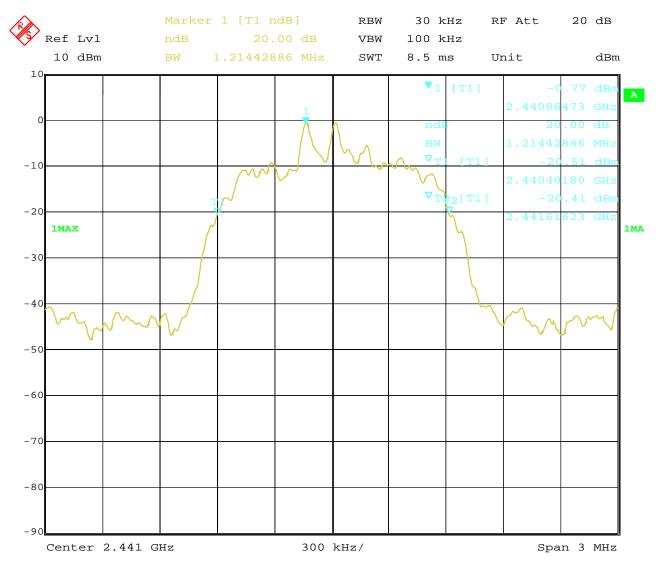
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2. Condition: Middle Channel



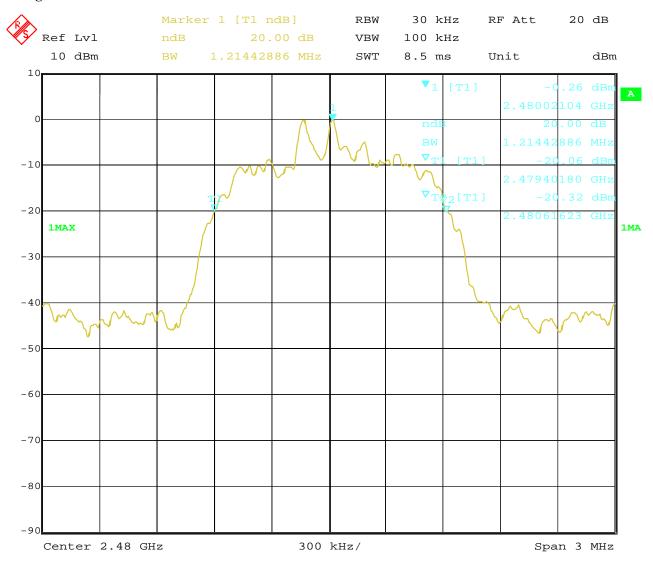
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3. High Channel



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Test Result

Type of Modulation: 8DPSK

| EUT | Bluetooth Keyboard | Model | Model B07-1;B05-1;B06-1;B08-1;B09-1;B10-1;B11-1;B12 | | | |
|-------------|-------------------------|---------------------|---|------------------------|------------|--|
| Mode | Keep Transmitting | Input Voltage | DC3.7V | | | |
| Temperature | 24 deg. C, | Humidity | | 56% RH | | |
| Channel | Channel Frequency (MHz) | y 20 dB Bar (kH: | 10,11,10,11 | Maximum Limit (kHz) | Pass/ Fail | |
| Low 2402 | | 1214. | .43 | | Pass | |
| Middle | 2441 | 1220. | .44 | | Pass | |
| High | High 2480 122 | | .44 | | Pass | |

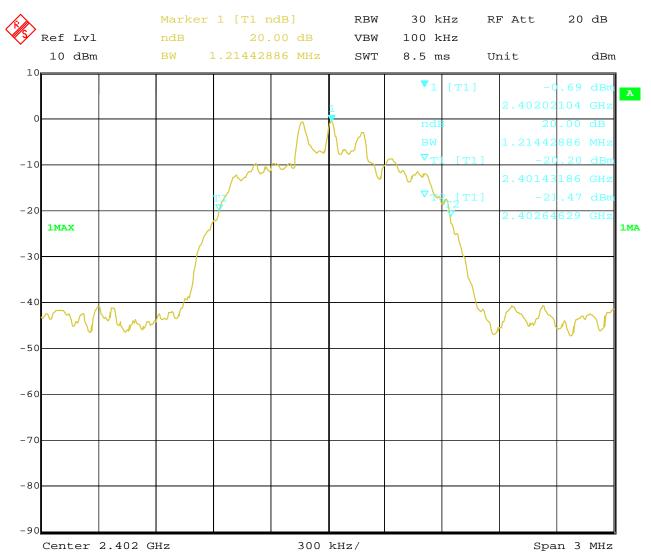
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Test Figure:

1. Condition: Low Channel



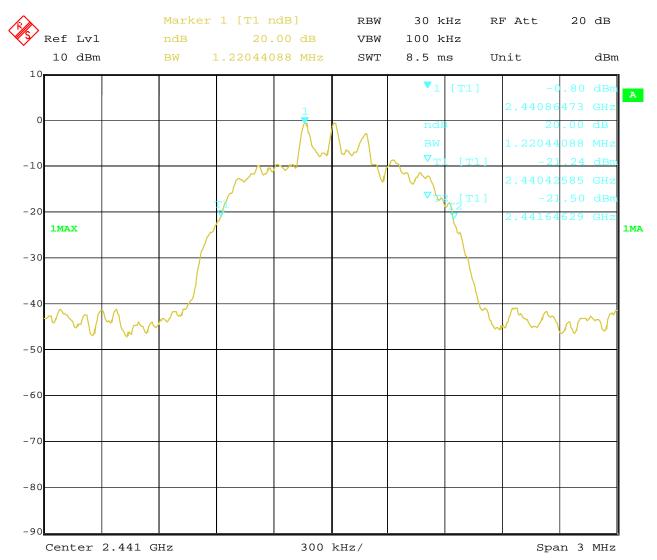
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2. Condition: Middle Channel



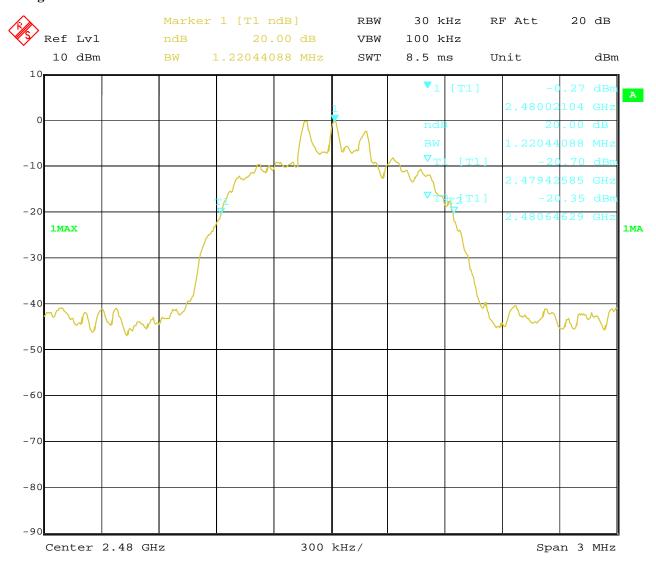
10.APR.2015 17:10:45 Date:

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3. High Channel



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8. Maximum Peak Output Power

8.1 Regulation

According to §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 2400-2483.5MHz band:0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

8.3 Test Procedure

- 1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
- 2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW =10MHz, RBW=3MHz; Sweep = auto; Detector function = peak; Trace = max hold
- 3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.
- 4. Repeat above procedures until all frequencies measured were complete.

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8.4Test Results

Type of Modulation: GFSK

| EUT | Bluetoot | h Keyboard | N | Model B07-1;B05-1;B06- | | B06-1;B08-1;B09-1;B10-1;B11-1;B12-1;B13-1 | | B10-1;B11-1;B12-1;B13-1 |
|-----------|----------|----------------------|------|------------------------|---------------------|---|-------|-------------------------|
| Mode | Keep Tr | ransmitting | Inpu | nput Voltage | | DC3.7V | | |
| Temperatu | re 24 c | deg. C, | Нι | umidity | | 56% RH | | |
| Channel | | el Frequency MHz) | | | ower Output dBm) | Peak Power I (dBm) | Limit | Pass/ Fail |
| Low | | 2402 | | | 1.88 | 30 | | Pass |
| Middle | | 2441 | | | 1.88 | 30 | | Pass |
| High | | 2480 | | | 2.20 | 30 | | Pass |

Note: 1. the result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

2. Worse case was recorded

Type of Modulation: Л/4DQPSK

| EUT | Bluetooth Keyboard | N | Model B07-1;B05-1;B06-1;B08-1;B09-1;B10-1;B11-1;B12-1; | | ;B10-1;B11-1;B12-1;B13-1 | |
|------------|-------------------------|---------------|--|-------------------|---------------------------|------------|
| Mode | Keep Transmitting | Input Voltage | | ut Voltage DC3.7V | | 7 |
| Temperatur | e 24 deg. C, | Humidity | | 56% RH | | |
| Channel | Channel Frequency (MHz) | | Peak Power Output (dBm) | | Peak Power Limit (dBm) | Pass/ Fail |
| Low | 2402 | | | 0.81 | 30 | Pass |
| Middle | 2441 | (| | 0.81 | 30 | Pass |
| High | 2480 | | 1.19 | 30 | Pass | |

Note: 1. the result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

2. Worse case was recorded

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Type of Modulation: 8DPSK

| EUT | Bluetooth Keyboard | Model | Model B07-1;B05-1;B06-1;B08-1;B09-1;B10-1;B11-1;B12-1 | | | |
|------------|-------------------------|---------------|---|------------------------|------------|--|
| Mode | Keep Transmitting | Input Voltage | oltage DC3.7V | | 'V | |
| Temperatur | e 24 deg. C, | Humidity | | 56% RH | | |
| Channel | Channel Frequency (MHz) | | ver Output Bm) | Peak Power Limit (dBm) | Pass/ Fail | |
| Low | 2402 | 1. | .06 | 30 | Pass | |
| Middle | 2441 | 1. | .06 | 30 | Pass | |
| High | 2480 | 1. | .45 | 30 | Pass | |

Note: 1. the result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

2. Worse case was recorded

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9. Carrier Frequency Separation

9.1 Regulation

According to §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.

9.2 Limits of Carrier Frequency Separation

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

9.3 Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW) \geq 1% of the span; Video (or Average) Bandwidth (VBW) \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold
- 3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.
- 4. Repeat above procedures until all frequencies measured were complete.

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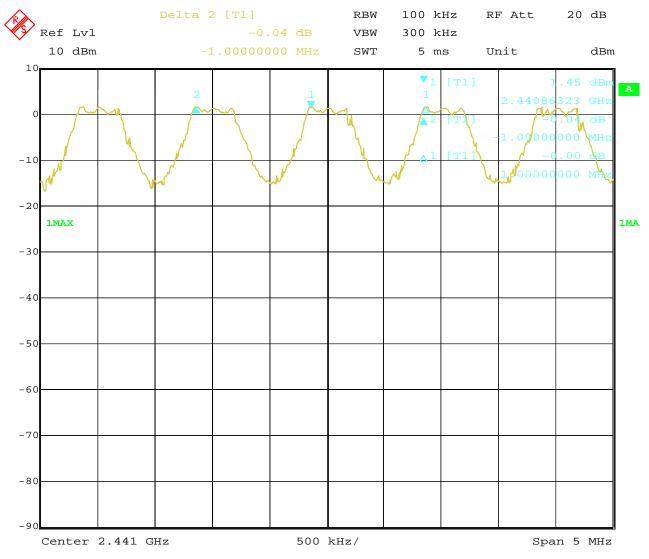


9.4Test Result

Type of Modulation: GFSK

| EUT | Bluetooth Ke | eyboard | Model | B07-1;B05-1;B06-1;B08-1;B09-1;B10-1;B11-1;B12-1;B13- | |
|-------------|------------------------------|----------------------------|---------------|--|------------|
| Mode | Hopping | On | Input Voltage | DC3.7V | |
| Temperature | 24 deg. | C, | Humidity | 56% RH | |
| | Carrier Frequency Separation | | Limit | | Pass/ Fail |
| 1 | | 25 kHz or 2/3 of bandwidth | 20 dB | Pass | |

Test Plots



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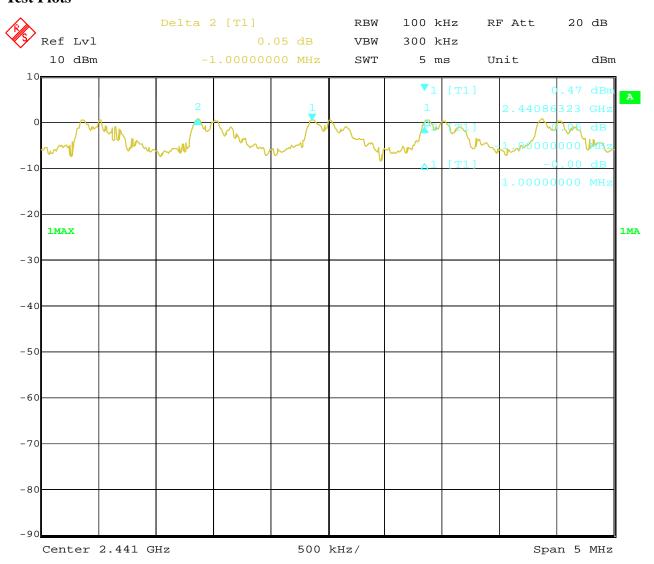
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Type of Modulation: Л/4DQPSK

| EUT | Bluetooth k | Keyboard | Model B07-1;B0 | | B07-1;B05-1;B06-1;B08-1;B09-1;B10-1;B11-1;B12-1;B13-1 | |
|----------------------|-------------|----------------------|----------------|--------|---|--|
| Mode | Hoppin | g On | Input Voltage | DC3.7V | | |
| Temperature | 24 deg | g. C, | Humidity | 56% RH | | |
| Carrier Fr Separa | | | Limit | | Pass/ Fail | |
| 1000 | kHz | ≥ 25 kHz or 2/3 of 2 | | 0 dB | Pass | |
| | | bandwidth | | | | |

Test Plots



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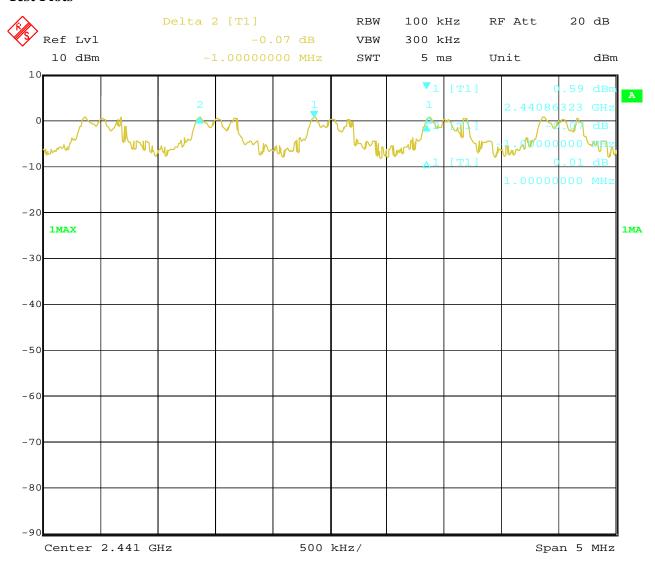
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Type of Modulation: 8DPSK

| EUT | Bluetooth Key | board | Model | B07-1;B05-1;B06-1;B08-1;B09-1;B10-1;B11-1;B12-1;B13- | |
|----------------|-----------------|-------------------|----------------|--|--|
| Mode | Hopping C |)n | Input Voltage | ge DC3.7V | |
| Temperature | 24 deg. C | ·, | Humidity | 56% RH | |
| Carrier Freque | ency Separation | | Limit | Pass/ Fail | |
| 1000 kHz ≥ 2 | | 5 kHz or 2/3 of 2 | 0 dB bandwidth | Pass | |

Test Plots



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10. Number of Hopping Channels

10.1 Regulation

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

10.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

10.3 Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW=100 kHz, VBW= 300 kHz;

Sweep = auto; Detector function = peak; Trace = max hold

3. Record the number of hopping channels.

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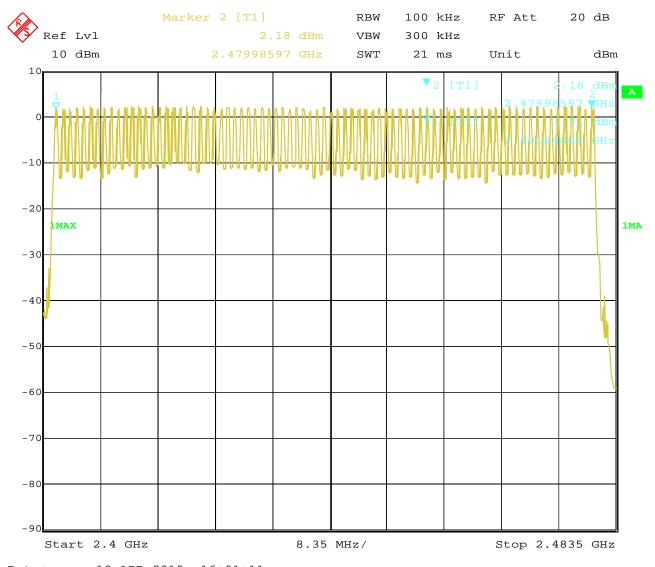


10.4Test Result

Type of Modulation: GFSK

| EUT | Bluetooth I | Keyboard | Model | B07-1;B05-1;B06-1;B08-1;B09-1;B10-1;B11-1;B12-1;B13-1 | | | |
|-----------------|-------------|-------------------|-----------------|---|-------|------------|--|
| Mode | Hoppin | g On Input Voltag | | DC3.7V | | | |
| Temperature | 24 deg | g. C, | Humidity | 56% RH | | % RH | |
| Operating F | requency | Number | of hopping chan | nels | Limit | Pass/ Fail | |
| 2402-2480MHz 79 | | 79 | | ≥ 15 | Pass | | |

Test Plot



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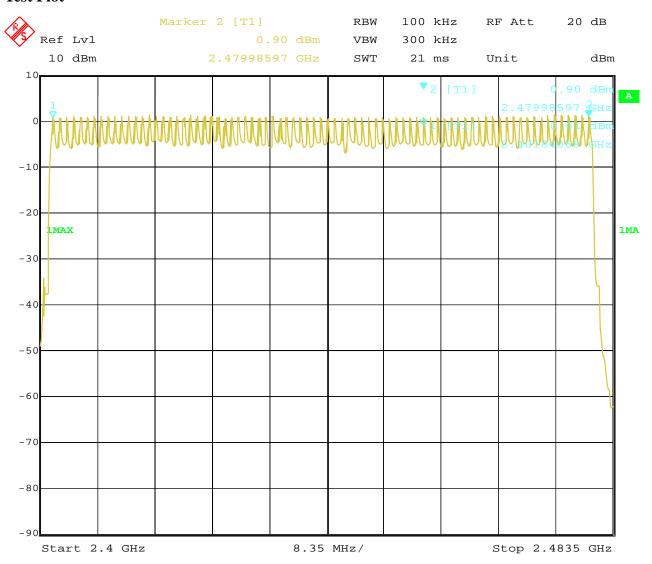
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Type of Modulation: Л/4DQPSK

| EUT | Bluetooth k | Keyboard | Model | B07-1; | B07-1;B05-1;B06-1;B08-1;B09-1;B10-1;B11-1;B12-1;B13-1 | | | | |
|-------------|-------------|----------|-------------------|--------|---|------------|--|--|--|
| Mode | Hoppin | g On | Input Voltage | DC3.7V | | | | | |
| Temperature | 24 deg | g. C, | C, Humidity | | 56% RH | | | | |
| Operating F | Frequency | Numbe | r of hopping char | nnels | Limit | Pass/ Fail | | | |
| 2402-248 | 80MHz | 79 | | | ≥ 15 | Pass | | | |

Test Plot



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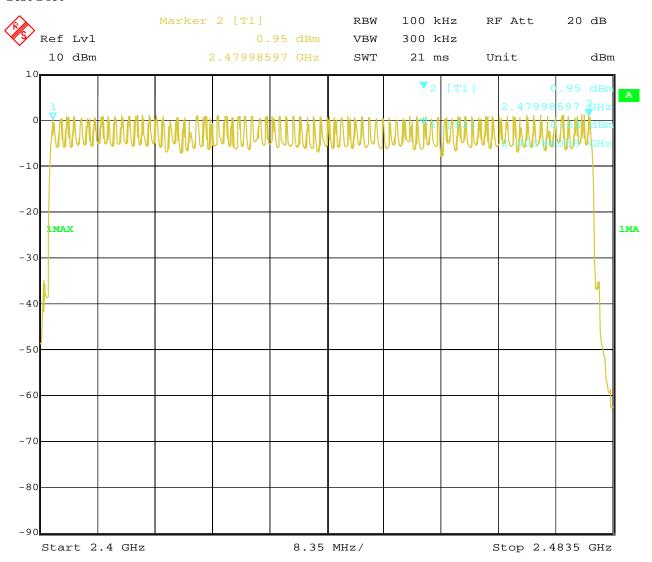
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Type of Modulation: 8DPSK

| EUT | Bluetootl | n Keyboard | Model | В07- | B07-1;B05-1;B06-1;B08-1;B09-1;B10-1;B11-1;B12-1;B13-1 | | | | |
|--------------|-----------------|----------------------|---------------|---------------|---|------------|--|--|--|
| Mode | Норр | oing On | Input Voltage | DC3.7V | | | | | |
| Temperature | 24 d | leg. C, | Humidity | nidity 56% RH | | RH | | | |
| Operating Fr | equency | Number of hopping cl | | els | Limit | Pass/ Fail | | | |
| 2402-2480 | 2402-2480MHz 79 | | 79 | | ≥ 15 | Pass | | | |

Test Plot



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11. Time of Occupancy (Dwell Time)

11.1 Regulation

According to §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.

11.2 Limits of Carrier Frequency Separation

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

11.3 Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW \geq RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak;

Trace = max hold

- 3. Measure the dwell time using the marker-delta function.
- 4. Repeat above procedures until all frequencies measured were complete.
- 5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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11.4 Test Result

Type of Modulation: GFSK

| EUT | Bluetooth Keyboard | N. | Iodel | B07-1;B05-1;B06-1;B08-1;B09-1;B10-1;B11-1;B12-1;B13 | | 1;B11-1;B12-1;B13-1 |
|-------------|--------------------|---------------|-------|---|--------|---------------------|
| Mode | Keep Transmitting | Input Voltage | | DC3.7V | | |
| Temperature | 24 deg. C, | Humidity | | 56% RH | | |
| Channel | Reading | |] | Hoping Rate | Actual | Limit |
| Low | 2.97ms | | 2 | 66.667 hop/s | 0.317s | 0.4s |
| Middle | 2.95ms | | 2 | 66.667 hop/s | 0.315s | 0.4s |
| High | 2.99ms | | 2 | 66.667 hop/s | 0.319s | 0.4s |

Actual = Reading \times (Hopping rate / Number of channels) \times Test period, Test period = 0.4 [seconds / channel] \times 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625µs with 79 channels. A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

Note: DH5 was the worse case

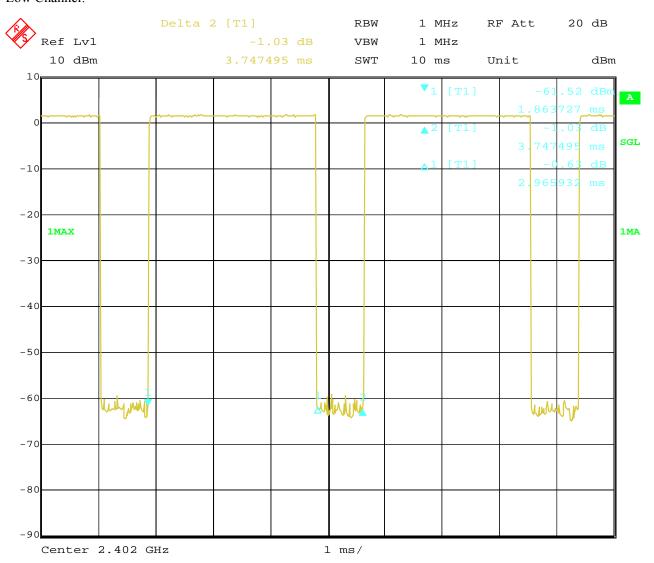
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Test Plots: Low Channel:



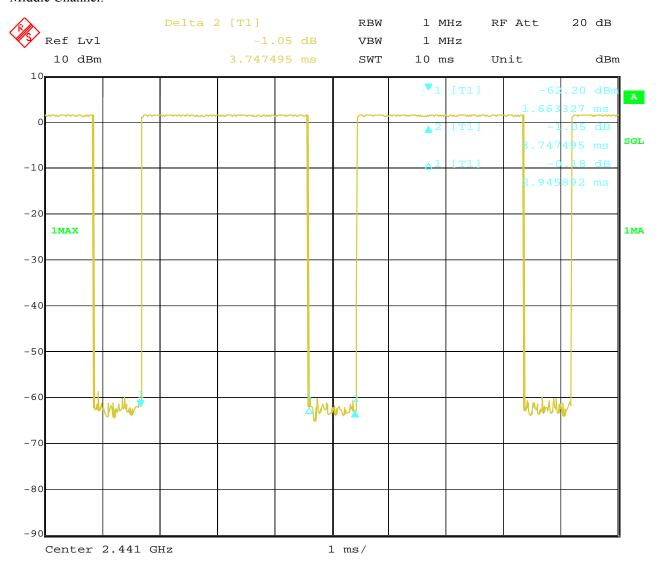
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Middle Channel:



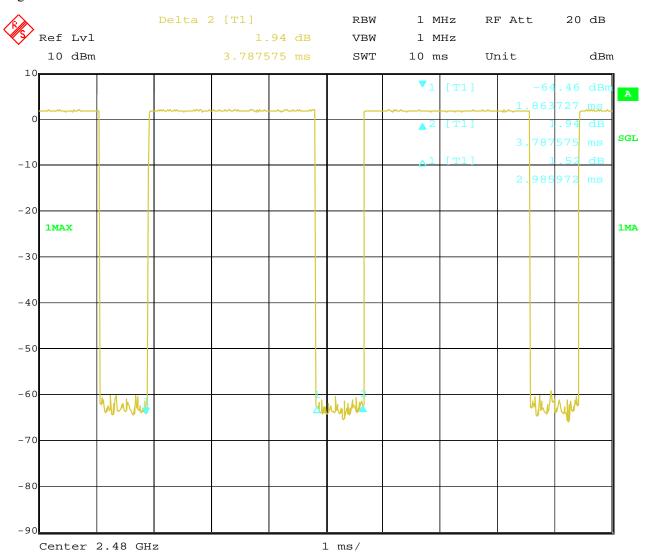
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High Channel



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Test Result

Type of Modulation: JI/4DQPSK

| EUT | Bluetooth Keyboard | N | Iodel | B07-1;B05-1;B06-1;B08-1;B09-1;B10-1;B11-1;B12-1;B13-1 | | |
|-------------|--------------------|-------|---------|---|--------|-------|
| Mode | Keep Transmitting | Input | Voltage | DC3.7V | | |
| Temperature | 24 deg. C, | Humi | idity | 56% RH | | |
| Channel | Reading | | | Hoping Rate | Actual | Limit |
| Low | 2.99ms | | 2 | 266.667 hop/s | 0.319s | 0.4s |
| Middle | 3.01ms | | 2 | 266.667 hop/s | 0.321s | 0.4s |
| High | 3.01ms | | 2 | 266.667 hop/s | 0.321s | 0.4s |

Actual = Reading \times (Hopping rate / Number of channels) \times Test period, Test period = 0.4 [seconds / channel] \times 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625 μ s with 79 channels. A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

Note: DH5 was the worse case

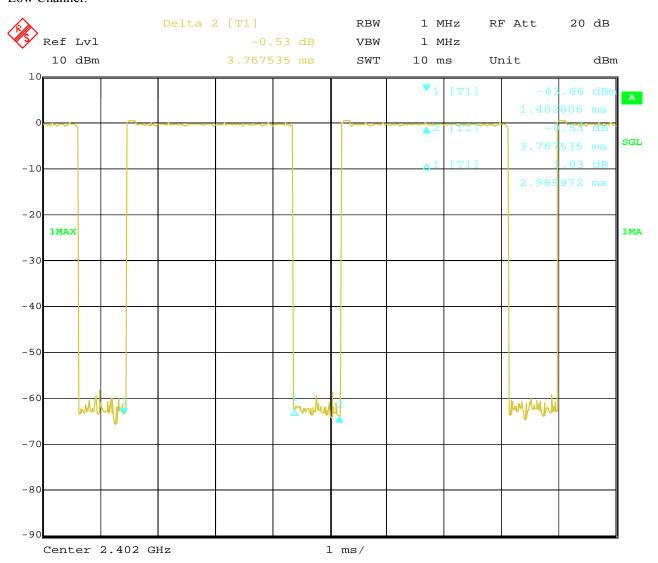
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Test Plots: Low Channel:



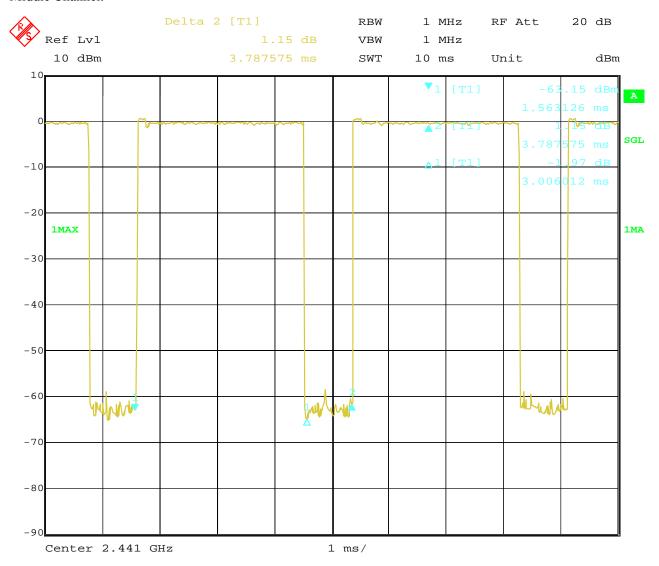
Date: 10.APR.2015 17:28:01

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Middle Channel:



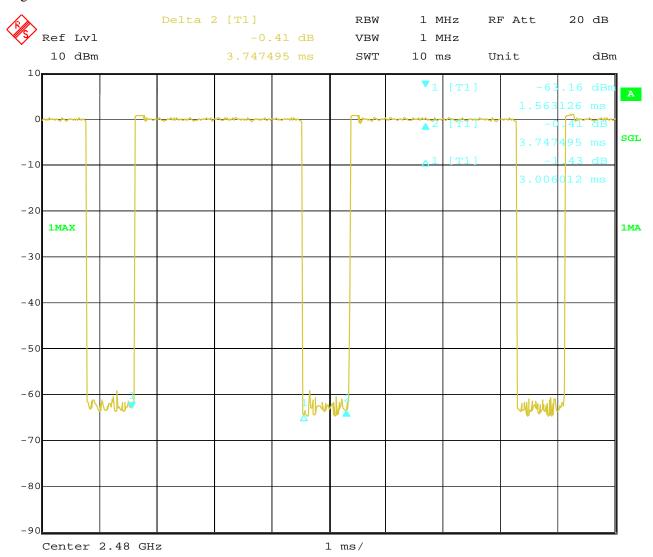
10.APR.2015 17:26:19 Date:

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High Channel



10.APR.2015 17:27:04 Date:

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Type of Modulation: 8DPSK

| EUT | Bluetooth Keyboard | M | Model B07-1;B05-1;E | | 806-1;B08-1;B09-1;B10-1;B11-1;B12-1;B13-1 | | |
|-------------|--------------------|---------------|---------------------|------------------------|---|-------|--|
| Mode | Keep Transmitting | Input Voltage | | DC3.7V | | | |
| Temperature | 24 deg. C, | Humidity | | 56% RH | | | |
| Channel | Reading | | Но | ping Rate | Actual | Limit | |
| Low | 2.99ms | | 266 | .667 hop/s 0.319s 0.4s | | 0.4s | |
| Middle | 3.03ms | 266. | | .667 hop/s | 0.323s | 0.4s | |
| High | 2.99ms | | 266 | .667 hop/s | 667 hop/s 0.319s 0.4s | | |

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625µs with 79 channels. A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

Note: DH5 was the worse case

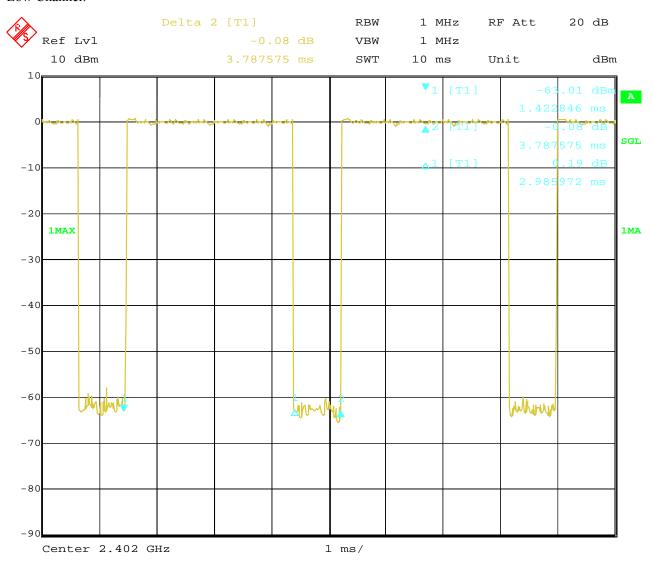
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Report No: FCC1504055

Date: 2015-04-11



Test Plots: Low Channel:



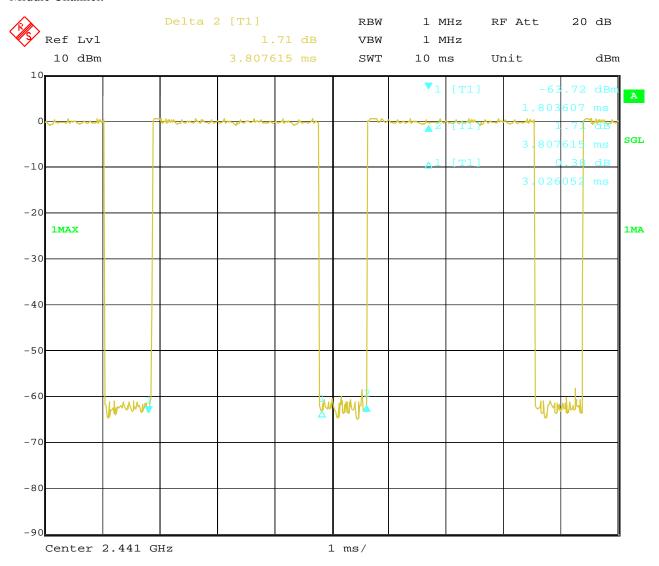
Date: 10.APR.2015 17:22:15

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Date: 2015-04-11



Middle Channel:



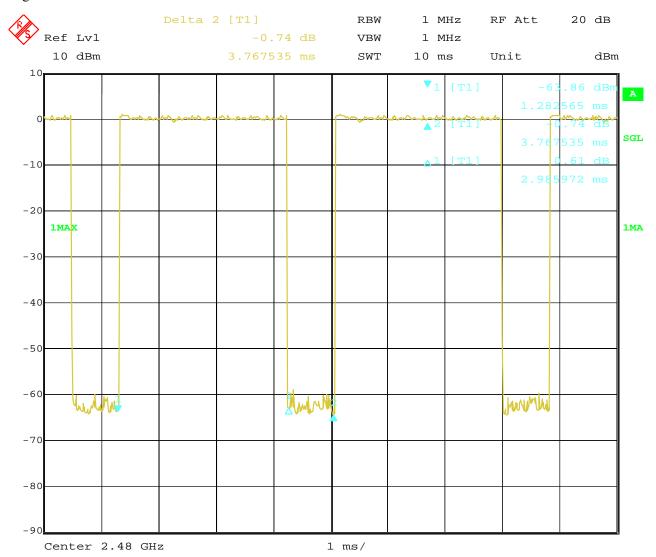
10.APR.2015 17:23:12 Date:

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Date: 2015-04-11



High Channel



10.APR.2015 17:24:56 Date:

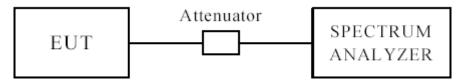
Date: 2015-04-11



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12 Out of Band Measurement

12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

12.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

12.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. Peak values with RBW=VBW=1MHz and PK detector.

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

Date: 2015-04-11

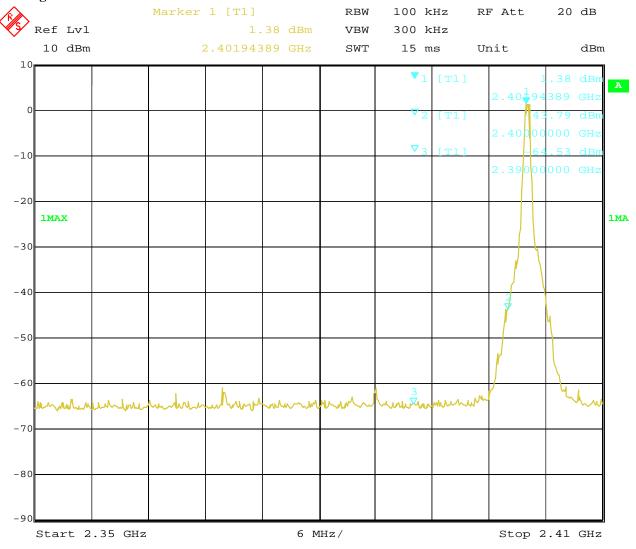


Type of Modulation: GFSK

Out of Band Test Result

| Product: | Blue | tooth Keyboard | Test Mode: | Low Channel |
|----------------|-------------|------------------|---------------|-----------------|
| Mode | Keep | ing Transmitting | Input Voltage | 120V~ |
| Temperature | | 24 deg. C | Humidity | 56% RH |
| Test Result: | | Pass | Detector | PK |
| The Max. FS in | PK (dBμV/m) | 35.8 | | $74(dB\mu V/m)$ |
| Restrict Band | AV(dBμV/m) | | Limit | $54(dB\mu V/m)$ |
| 2390MHz | | | | |

Test Figure:



10.APR.2015 16:41:02 Date:

Date: 2015-04-11

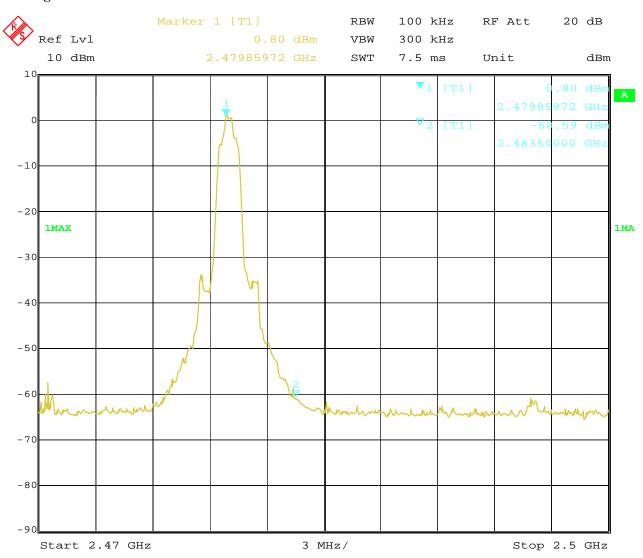


Type of Modulation: GFSK

Out of Band Test Result

| Product: | Blu | etooth Keyboard | Test Mode: | High Channel |
|----------------|-----------------|-------------------|---------------|-----------------|
| Mode | Kee | ping Transmitting | Input Voltage | 120V~ |
| Temperature | | 24 deg. C, | Humidity | 56% RH |
| Test Result: | | Pass | Detector | PK |
| The Max. FS in | PK (dBμV/m) | 37.1 | | $74(dB\mu V/m)$ |
| Restrict Band | $AV(dB\mu V/m)$ | | Limit | $54(dB\mu V/m)$ |
| 2483.5MHz | | | | |

Test Figure:



Date: 10.APR.2015 17:00:41

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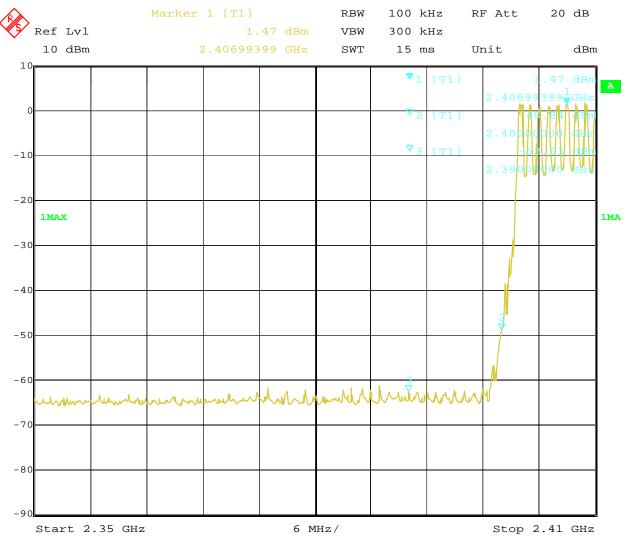


Type of Modulation: GFSK

Out of Band Test Result

| Product: | Blu | etooth Keyboard | Test Mode: | Hopping mode |
|----------------|-----------------|-----------------|---------------|-----------------|
| Mode | | Hopping On | Input Voltage | 120V~ |
| Temperature | | 24 deg. C, | Humidity | 56% RH |
| Test Result: | | Pass | Detector | PK |
| The Max. FS in | PK (dBμV/m) | 36.4 | | $74(dB\mu V/m)$ |
| Restrict Band | $AV(dB\mu V/m)$ | | Limit | $54(dB\mu V/m)$ |
| 2390MHz | | | | |

Test Figure:



Date: 10.APR.2015 16:31:15

Date: 2015-04-11

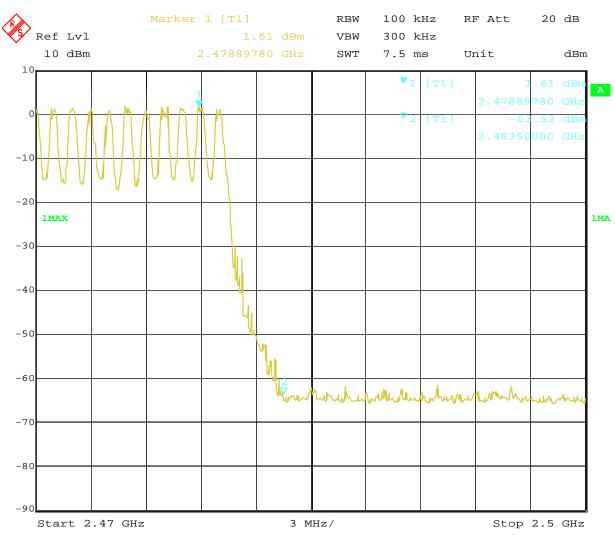


Type of Modulation: GFSK

Out of Band Test Result

| Product: | Bluetooth Keyboard | | Test Mode: | Hopping mode |
|----------------|--------------------|------|---------------|-----------------|
| Mode | Hopping On | | Input Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| The Max. FS in | PK (dBμV/m) | 38.0 | | $74(dB\mu V/m)$ |
| Restrict Band | $AV(dB\mu V/m)$ | | Limit | $54(dB\mu V/m)$ |
| 2483.5MHz | | | | |

Test Figure:



Date: 10.APR.2015 16:43:20

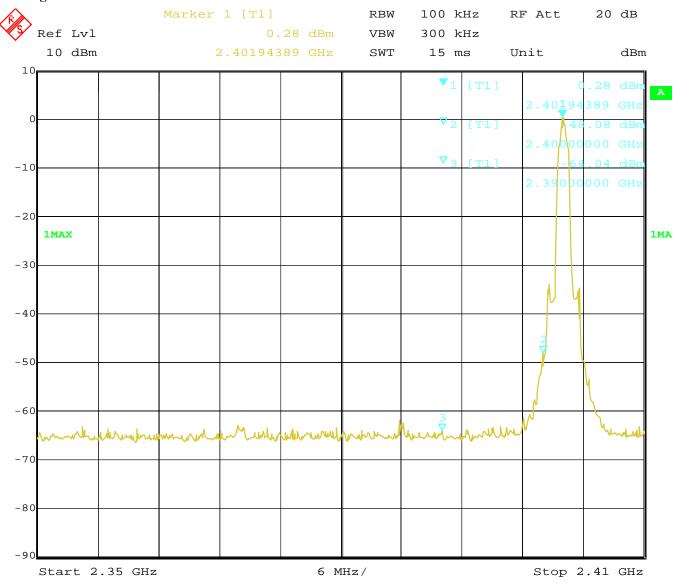
Date: 2015-04-11



Out of Band Test Result 12.4

| Product: | Bluetooth Keyboard | | Test Mode: | Low Channel |
|----------------|----------------------|------|---------------|-------------|
| Mode | Keeping Transmitting | | Input Voltage | 120V~ |
| Temperature | 24 deg. C | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| The Max. FS in | PK (dBμV/m) | 36.1 | | 74(dBµV/m) |
| Restrict Band | AV(dBμV/m) | | Limit | 54(dBµV/m) |
| 2390MHz | | | | |

Test Figure:



10.APR.2015 16:39:52

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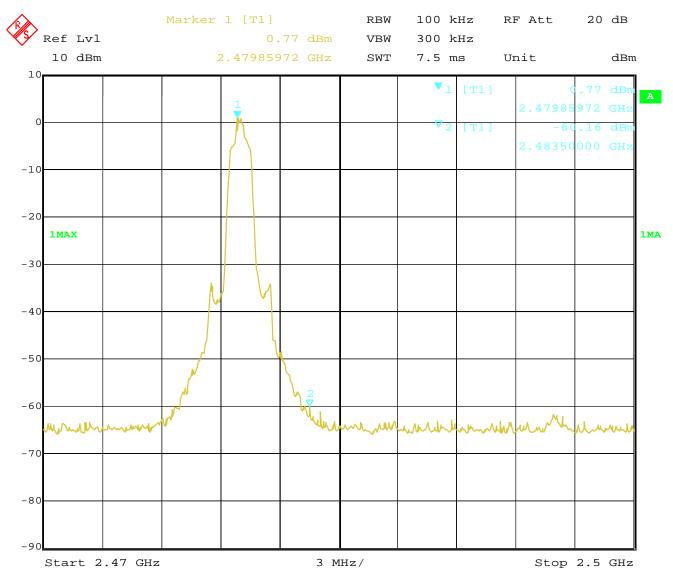
Date: 2015-04-11



Out of Band Test Result 12.4

| Product: | Bluetooth Keyboard | | Test Mode: | High Channel |
|----------------|----------------------|--|---------------|-----------------|
| Mode | Keeping Transmitting | | Input Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| The Max. FS in | PK (dBμV/m) 37.3 | | | $74(dB\mu V/m)$ |
| Restrict Band | AV(dBμV/m) | | Limit | 54(dBμV/m) |
| 2483.5MHz | | | | |

Test Figure:



Date: 10.APR.2015 16:52:47

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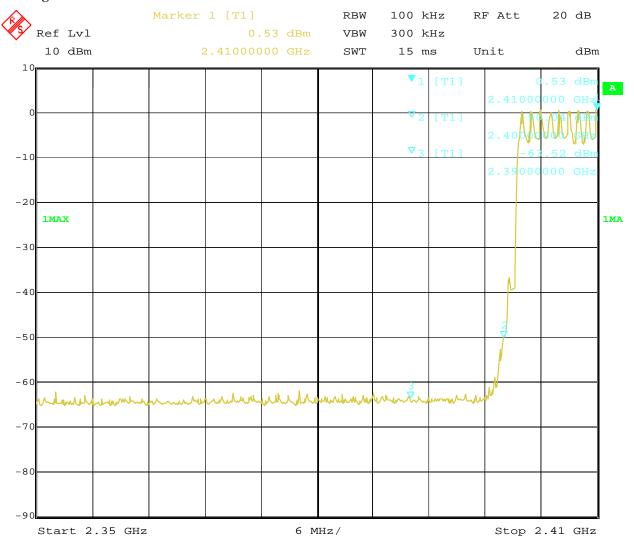
Date: 2015-04-11



Out of Band Test Result

| Product: | Bluetooth Keyboard | | Test Mode: | Hopping mode |
|----------------|--------------------|----------|---------------|-----------------|
| | Diu | <u> </u> | | 11 0 |
| Mode | Hopping On | | Input Voltage | 120V∼ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| The Max. FS in | PK (dBμV/m) | 36.4 | | $74(dB\mu V/m)$ |
| Restrict Band | AV(dBμV/m) | | Limit | $54(dB\mu V/m)$ |
| 2390MHz | | | | |

Test Figure:



Date: 10.APR.2015 16:35:31

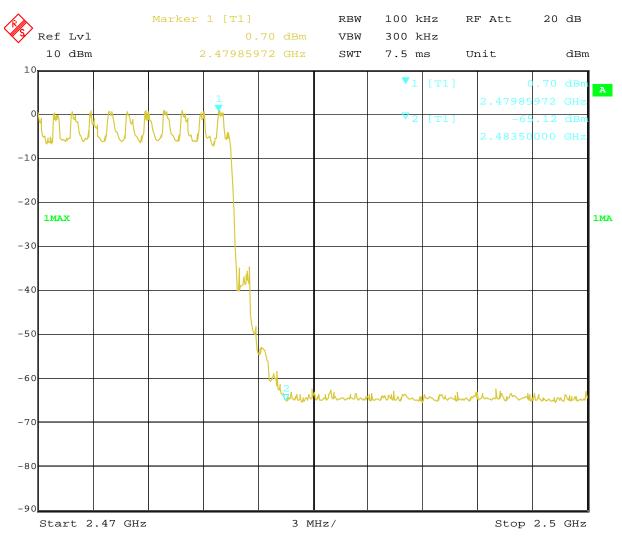
Date: 2015-04-11



Out of Band Test Result

| Product: | Bluetooth Keyboard | | Test Mode: | Hopping mode |
|----------------|--------------------|------|---------------|-----------------|
| Mode | Hopping On | | Input Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| The Max. FS in | PK (dBμV/m) | 37.8 | | $74(dB\mu V/m)$ |
| Restrict Band | AV(dBμV/m) | | Limit | 54(dBμV/m) |
| 2483.5MHz | | | | |

Test Figure:



Date: 10.APR.2015 16:46:35

Date: 2015-04-11

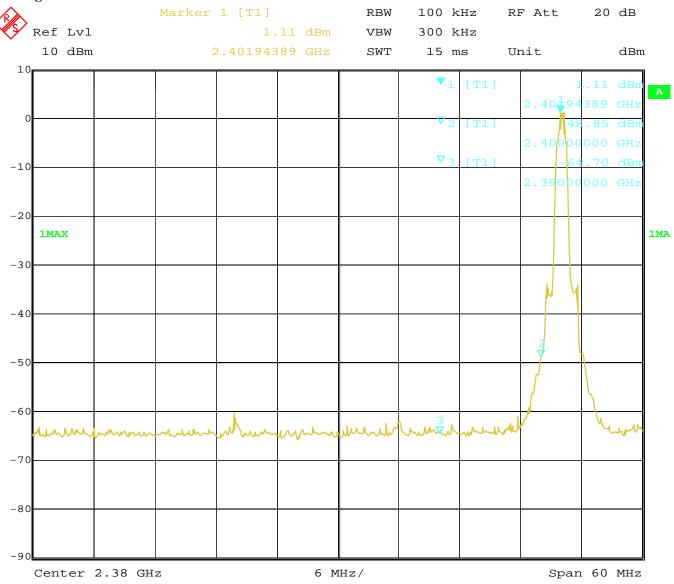


Type of Modulation: 8DPSK

Out of Band Test Result 12.4

| Product: | Bluetooth Keyboard | | Test Mode: | Low Channel |
|----------------|----------------------|------|---------------|-------------|
| Mode | Keeping Transmitting | | Input Voltage | 120V~ |
| Temperature | 24 deg. C | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| The Max. FS in | PK (dBμV/m) | 35.5 | | 74(dBµV/m) |
| Restrict Band | AV(dBμV/m) | | Limit | 54(dBµV/m) |
| 2390MHz | | | | |

Test Figure:



10.APR.2015 18:31:09 Date:

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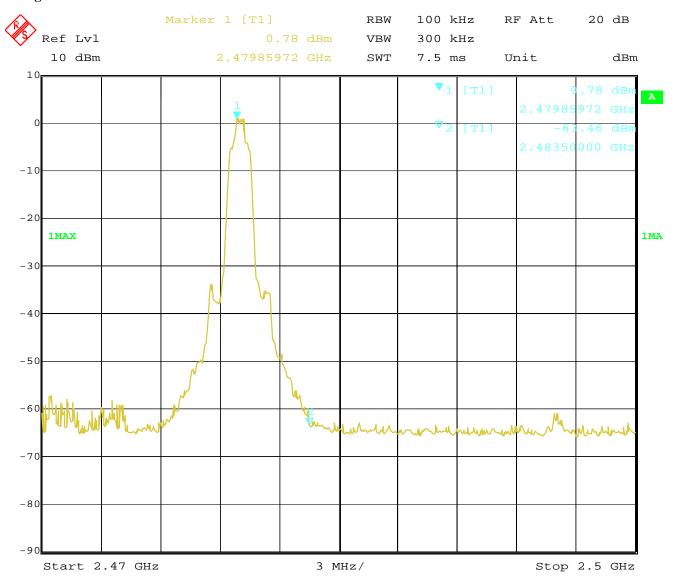


Type of Modulation: 8DPSK

Out of Band Test Result 12.4

| Product: | Bluetooth Keyboard | | Test Mode: | High Channel |
|----------------|----------------------|--|---------------|-----------------|
| Mode | Keeping Transmitting | | Input Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| The Max. FS in | PK (dBμV/m) 38.2 | | | $74(dB\mu V/m)$ |
| Restrict Band | AV(dBμV/m) | | Limit | $54(dB\mu V/m)$ |
| 2483.5MHz | | | | |

Test Figure:



Date: 10.APR.2015 16:50:55

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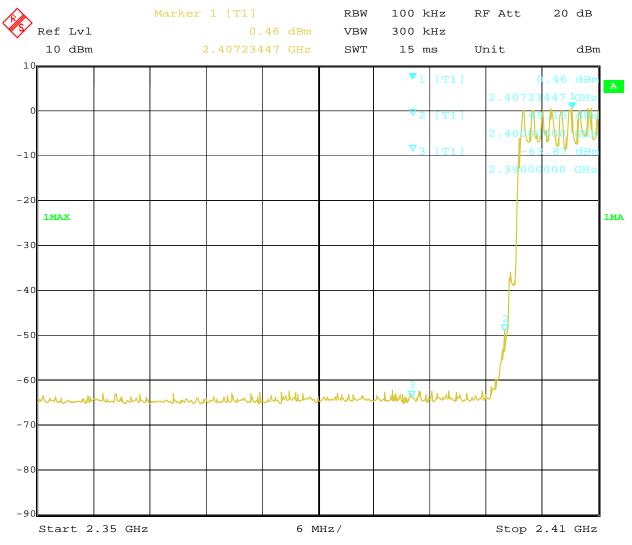


Type of Modulation: 8DPSK

Out of Band Test Result

| Product: | Bluetooth Keyboard | | Test Mode: | Hopping mode |
|----------------|--------------------|------|---------------|-----------------|
| Mode | Hopping On | | Input Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| The Max. FS in | PK (dBμV/m) | 35.4 | | $74(dB\mu V/m)$ |
| Restrict Band | AV(dBμV/m) | | Limit | 54(dBμV/m) |
| 2390MHz | | | | |

Test Figure:



Date: 10.APR.2015 16:38:25

Date: 2015-04-11

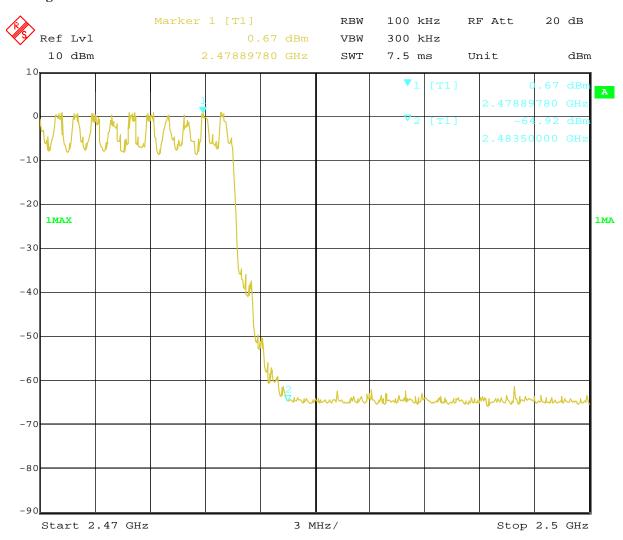


Type of Modulation: 8DPSK

Out of Band Test Result

| Product: | Bluetooth Keyboard | | Test Mode: | Hopping mode |
|----------------|--------------------|------|---------------|-----------------|
| Mode | Hopping On | | Input Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| The Max. FS in | PK (dBμV/m) | 38.6 | | $74(dB\mu V/m)$ |
| Restrict Band | $AV(dB\mu V/m)$ | | Limit | 54(dBμV/m) |
| 2483.5MHz | | | | |

Test Figure:



Date: 10.APR.2015 16:49:05

Date: 2015-04-11



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13.0 Antenna Requirement

13.1 Standard Applicable

For intentional device, according to FCC 47 CFR 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

13.2 Antenna Connected constructions

PCB Antenna used. The maximum Gain of this antenna is 0dBi

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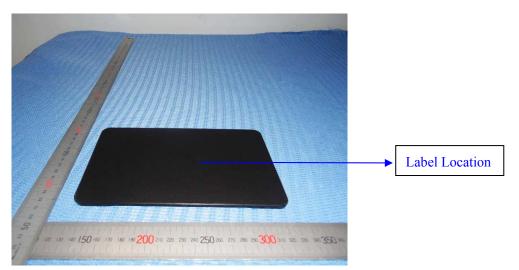


14.0 FCC ID Label

FCC ID: 2AEID-B07-1

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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15.0 Photo of testing

Conducted Emission Test Setup:



Date: 2015-04-11



Radiated Emission Test Setup:





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Photographs - EUT

Outside view





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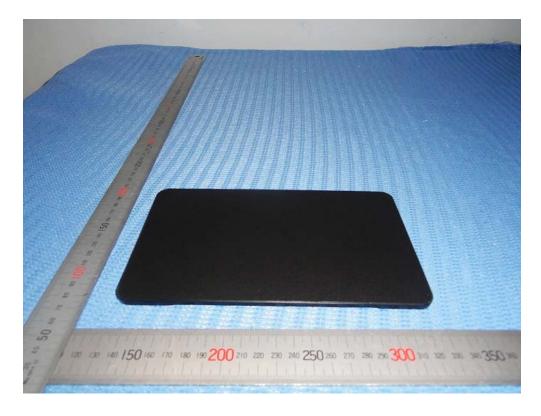
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Outside view





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Outside view



Date: 2015-04-11



Inside view





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Inside view



End of the report