



## TEST REPORT

**Product** Sport Earbuds

Trade mark Walker's

**GWP-DSRPT** Model/Type reference

**Serial Number** N/A

**Report Number** EED32P80349002

FCC ID 2AU3A-DSRPT

Date of Issue Apr. 06, 2023

**Test Standards** 47 CFR Part 15 Subpart C

**Test result PASS** 

Prepared for:

**Good Sportsman Marketing.LLC** 5250 Frye Road Irving.TX 75061

Prepared by:

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Apr. 06, 2023

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Check No.: 1211150323







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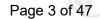












## Version

| Version No. | Date               | (   | Description | )   |
|-------------|--------------------|-----|-------------|-----|
| 00          | Apr. 06, 2023      |     | Original    |     |
| /           | Ties of the second |     | Can Can     | (3) |
|             |                    | (9) |             |     |





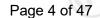


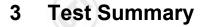










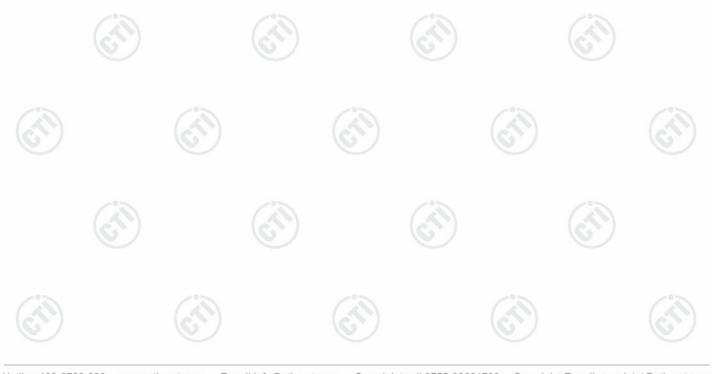


| Test Item                                     | Test Requirement                                       | Result |
|---|--|--------|
| Antenna Requirement                           | 47 CFR Part 15, Subpart C Section<br>15.203/15.247 (c) | PASS   |
| AC Power Line Conducted<br>Emission           | 47 CFR Part 15, Subpart C Section<br>15.207            | N/A    |
| Maximum Conducted Output Power                | 47 CFR Part 15, Subpart C Section<br>15.247 (b)(1)     | PASS   |
| 20dB Emission Bandwidth                       | 47 CFR Part 15, Subpart C Section<br>15.247 (a)(1)     | PASS   |
| Carrier Frequency Separation                  | 47 CFR Part 15, Subpart C Section<br>15.247 (a)(1)     | PASS   |
| Number of Hopping Channels                    | 47 CFR Part 15, Subpart C Section<br>15.247 (a)(1)     | PASS   |
| Time of Occupancy                             | 47 CFR Part 15, Subpart C Section 15.247 (a)(1)        | PASS   |
| Pseudorandom Frequency Hopping Sequence       | 47 CFR Part 15, Subpart C Section<br>15.247(b)(4)      | PASS   |
| Band Edge Measurements                        | 47 CFR Part 15, Subpart C Section<br>15.247(d)         | PASS   |
| Conducted Spurious<br>Emissions               | 47 CFR Part 15, Subpart C Section<br>15.247(d)         | PASS   |
| Radiated Spurious emissions                   | 47 CFR Part 15, Subpart C Section 15.205/15.209        | PASS   |
| Restricted bands around fundamental frequency | 47 CFR Part 15, Subpart C Section 15.205/15.209        | PASS   |

N/A: When the EUT charging, BT will not work, So Not Applicable.

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.





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## 4 General Information

### 4.1 Client Information

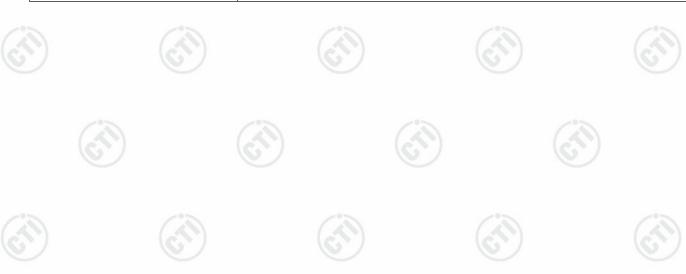
| Applicant:                                 | Good Sportsman Marketing.LLC  |
|--|---|
| Address of Applicant:                      | 5250 Frye Road Irving.TX 75061  |
| Manufacturer: Good Sportsman Marketing.LLC |   |
| Address of Manufacturer:                   | 5250 Frye Road Irving.TX 75061  |
| Factory:                                   | Concord Intelligent Technology (Huizhou) Ltd.   |
| Address of Factory:                        | 25, Ping An Rd, Shuikou Street, Hui Cheng District, Huizhou City, Guangdong Province, China |

## 4.2 General Description of EUT

| Sport Earbuds                      |   |  |
|------------------------------------|---|--|
| GWP-DSRPT                          |   |  |
| Walker's                           |   |  |
| ☐ Mobile ☐ Portable ☐ Fix Location | (25)  |  |
| AWBTRDLAB                          |   |  |
| DC 3.7V                            |   |  |
| DC 3.7V                            |   |  |
| Mar. 15, 2023                      | -   |  |
| Mar. 15, 2023 to Mar. 21, 2023     | )   |  |
|                                    | GWP-DSRPT  Walker's  ☐ Mobile ☐ Portable ☐ Fix Location  AWBTRDLAB  DC 3.7V  DC 3.7V  Mar. 15, 2023 |  |

## 4.3 Product Specification subjective to this standard

| Operation Frequency:  | 2402MHz~2480MHz                         |        |
|-----------------------|---|--------|
| Modulation Technique: | Frequency Hopping Spread Spectrum(FHSS) | (8.73) |
| Modulation Type:      | GFSK, π/4DQPSK, 8DPSK                   |        |
| Number of Channel:    | 79                                      |        |
| Hopping Channel Type: | Adaptive Frequency Hopping systems      |        |
| Antenna Type:         | LDS Antenna                             | 41)    |
| Antenna Gain:         | Left ear : -0.31 dBi                    |        |
|                       | Right ear : -0.29 dBi                   |        |







| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 0       | 2402MHz   | 20      | 2422MHz   | 40      | 2442MHz   | 60      | 2462MHz   |
| -       |           |         |           |         |           |         |           |
| 1       | 2403MHz   | 21      | 2423MHz   | 41      | 2443MHz   | 61      | 2463MHz   |
| 2       | 2404MHz   | 22      | 2424MHz   | 42      | 2444MHz   | 62      | 2464MHz   |
| 3       | 2405MHz   | 23      | 2425MHz   | 43      | 2445MHz   | 63      | 2465MHz   |
| 4       | 2406MHz   | 24      | 2426MHz   | 44      | 2446MHz   | 64      | 2466MHz   |
| 5       | 2407MHz   | 25      | 2427MHz   | 45      | 2447MHz   | 65      | 2467MHz   |
| 6       | 2408MHz   | 26      | 2428MHz   | 46      | 2448MHz   | 66      | 2468MHz   |
| 7       | 2409MHz   | 27      | 2429MHz   | 47      | 2449MHz   | 67      | 2469MHz   |
| 8       | 2410MHz   | 28      | 2430MHz   | 48      | 2450MHz   | 68      | 2470MHz   |
| 9       | 2411MHz   | 29      | 2431MHz   | 49      | 2451MHz   | 69      | 2471MHz   |
| 10      | 2412MHz   | 30      | 2432MHz   | 50      | 2452MHz   | 70      | 2472MHz   |
| 11      | 2413MHz   | 31      | 2433MHz   | 51      | 2453MHz   | 71      | 2473MHz   |
| 12      | 2414MHz   | 32      | 2434MHz   | 52      | 2454MHz   | 72      | 2474MHz   |
| 13      | 2415MHz   | 33      | 2435MHz   | 53      | 2455MHz   | 73      | 2475MHz   |
| 14      | 2416MHz   | 34      | 2436MHz   | 54      | 2456MHz   | 74      | 2476MHz   |
| 15      | 2417MHz   | 35      | 2437MHz   | 55      | 2457MHz   | 75      | 2477MHz   |
| 16      | 2418MHz   | 36      | 2438MHz   | 56      | 2458MHz   | 76      | 2478MHz   |
| 17      | 2419MHz   | 37      | 2439MHz   | 57      | 2459MHz   | 77      | 2479MHz   |
| 18      | 2420MHz   | 38      | 2440MHz   | 58      | 2460MHz   | 78      | 2480MHz   |
| 19      | 2421MHz   | 39      | 2441MHz   | 59      | 2461MHz   |         |           |

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel             | Frequency |
|---------------------|-----------|
| The Lowest channel  | 2402MHz   |
| The Middle channel  | 2441MHz   |
| The Highest channel | 2480MHz   |



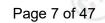












#### **Test Configuration** 4.4

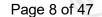
| 1 2 3 3   |   |                                    |  |
|---|---|------------------------------------|--|
| <b>EUT Test Software Settings</b>                           | :   |                                    |  |
| Software:   | AWBTRDLAB   |                                    |  |
| EUT Power Grade:  | Class2 (Power level is built-in set par selected) | rameters and cannot be changed and |  |
| Use test software to set the lo<br>transmitting of the EUT. | owest frequency, the middle frequency ar          | nd the highest frequency keep      |  |
| Mode  | Channel   | Frequency(MHz)                     |  |
|   | CH0   | 2402                               |  |
| DH1/DH3/DH5   | CH39  | 2441                               |  |
| (6,2,3)   | CH78  | 2480                               |  |
|   | CH0   | 2402                               |  |
| 2DH1/2DH3/2DH5  | CH39  | 2441                               |  |
| (i)   | CH78  | 2480                               |  |
|   | СНО   | 2402                               |  |
| 3DH1/3DH3/3DH5  | CH39  | 2441                               |  |
|   | CH78  | 2480                               |  |

#### 4.5 **Test Environment**

| Operating Environment | :                            |       |       |  |
|-----------------------|------------------------------|-------|-------|--|
| Radiated Spurious Emi | Radiated Spurious Emissions: |       |       |  |
| Temperature:          | 22~25.0 °C                   |       |       |  |
| Humidity:             | 50~55 % RH                   | (6,7) | (6,7, |  |
| Atmospheric Pressure: | 1010mbar                     |       |       |  |
| RF Conducted:         |                              |       |       |  |
| Temperature:          | 22~25.0 °C                   |       |       |  |
| Humidity:             | 50~55 % RH                   |       | .5)   |  |
| Atmospheric Pressure: | 1010mbar                     |       | /     |  |







#### 4.6 **Description of Support Units**

The EUT has been tested with associated equipment below.

1) support equipment

| Description | Manufacturer | Model No. | Certification | Supplied by |
|-------------|--------------|-----------|---------------|-------------|
| Notebook    | DELL         | DELL 3490 | FCC&CE        | СТІ         |

### 4.7 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

## Measurement Uncertainty (95% confidence levels, k=2)

| No.    | Item                            | Measurement Uncertainty |  |
|--------|---------------------------------|-------------------------|--|
| 1      | Radio Frequency                 | 7.9 x 10 <sup>-8</sup>  |  |
| 2      | DE nover conducted              | 0.46dB (30MHz-1GHz)     |  |
| 2      | RF power, conducted             | 0.55dB (1GHz-40GHz)     |  |
| (6.57) | (5,0)                           | 3.3dB (9kHz-30MHz)      |  |
| 3      | Radiated Spurious emission test | 4.3dB (30MHz-1GHz)      |  |
| 3      |                                 | 4.5dB (1GHz-18GHz)      |  |
|        |                                 | 3.4dB (18GHz-40GHz)     |  |
| 4      | Temperature test                | 0.64°C                  |  |
| 5      | Humidity test                   | 3.8%                    |  |
| 6      | DC power voltages               | 0.026%                  |  |

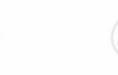














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# 4.9 Equipment List

|   | RF test system         |            |                            |                           |                               |
|---|------------------------|------------|----------------------------|---------------------------|-------------------------------|
| Equipment                               | Manufacturer           | Model No.  | Serial Number              | Cal. Date<br>(mm-dd-yyyy) | Cal. Due date<br>(mm-dd-yyyy) |
| Communication tset set                  | R&S                    | CMW500     | 107929                     | 07-06-2022                | 07-05-2023                    |
| Signal<br>Generator                     | R&S                    | SMBV100A   | 1407.6004K02-<br>262149-CV | 09-09-2022                | 09-08-2023                    |
| Spectrum<br>Analyzer                    | R&S                    | FSV40      | 101200                     | 08-01-2022                | 07-31-2023                    |
| RF control unit(power unit)             | MWRF-test              | MW100-RFCB | MW220620CTI-42             | 07-06-2022                | 07-05-2023                    |
| high-low<br>temperature<br>test chamber | Dong Guang<br>Qin Zhuo | LK-80GA    | QZ20150611879              | 12-19-2022                | 12-18-2023                    |
| Temperature/<br>Humidity<br>Indicator   | biaozhi                | HM10       | 1804186                    | 06-16-2022                | 06-15-2023                    |
| BT&WI-FI Automatic test software        | MWRF-test              | MTS 8310   | 2.0.0.0                    | (crit                     | - 6                           |

| 3M Semi-anechoic Chamber (2)- Radiated disturbance Test |              |                  |            |            |            |  |
|---|--------------|------------------|------------|------------|------------|--|
| Equipment   | Manufacturer | Model            | Serial No. | Cal. Date  | Due Date   |  |
| 3M Chamber &<br>Accessory<br>Equipment                  | TDK          | SAC-3            | (6)        | 05-22-2022 | 05-21-2025 |  |
| Receiver  | R&S          | ESCI7            | 100938-003 | 09-28-2022 | 09-27-2023 |  |
| TRILOG<br>Broadband<br>Antenna                          | schwarzbeck  | VULB 9163        | 9163-618   | 05-22-2022 | 05-21-2023 |  |
| Multi device<br>Controller                              | maturo       | NCD/070/10711112 |            | <u> </u>   |            |  |
| Horn Antenna  | ETS-LINGREN  | BBHA 9120D       | 9120D-1869 | 04-15-2021 | 04-14-2024 |  |
| Loop Antenna  | Schwarzbeck  | FMZB 1519B       | 1519B-076  | 04-17-2021 | 04-16-2024 |  |
| Microwave<br>Preamplifier                               | Agilent      | 8449B            | 3008A02425 | 06-20-2022 | 06-19-2023 |  |













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|                                    |              | 3M full-anechoi   | c Chamber     |                           |                               |
|------------------------------------|--------------|-------------------|---------------|---------------------------|-------------------------------|
| Equipment                          | Manufacturer | Model No.         | Serial Number | Cal. Date<br>(mm-dd-yyyy) | Cal. Due date<br>(mm-dd-yyyy) |
| RSE Automatic test software        | JS Tonscend  | JS36-RSE          | 10166         |                           | (3                            |
| Receiver                           | Keysight     | N9038A            | MY57290136    | 02-27-2023                | 02-26-2024                    |
| Spectrum Analyzer                  | Keysight     | N9020B            | MY57111112    | 02-21-2023                | 02-20-2024                    |
| Spectrum Analyzer                  | Keysight     | N9030B            | MY57140871    | 02-21-2023                | 02-20-2024                    |
| TRILOG<br>Broadband<br>Antenna     | Schwarzbeck  | VULB 9163         | 9163-1148     | 04-28-2021                | 04-27-2024                    |
| Horn Antenna                       | Schwarzbeck  | BBHA 9170         | 9170-832      | 04-15-2021                | 04-14-2024                    |
| Horn Antenna                       | ETS-LINDGREN | 3117              | 57407         | 07-04-2021                | 07-03-2024                    |
| Preamplifier                       | EMCI         | EMC184055SE       | 980597        | 04-20-2022                | 04-19-2023                    |
| Preamplifier                       | EMCI         | EMC001330         | 980563        | 04-13-2022                | 04-12-2023                    |
| Preamplifier                       | JS Tonscend  | TAP-011858        | AP21B806112   | 07-29-2022                | 07-28-2023                    |
| Communication test set             | R&S          | CMW500            | 102898        | 12-23-2022                | 12-22-2023                    |
| Temperature/<br>Humidity Indicator | biaozhi      | GM1360            | EE1186631     | 04-11-2022                | 04-10-2023                    |
| Fully Anechoic<br>Chamber          | TDK          | FAC-3             |               | 01-09-2021                | 01-08-2024                    |
| Cable line                         | Times        | SFT205-NMSM-2.50M | 394812-0001   | (                         | <u>(1)</u>                    |
| Cable line                         | Times        | SFT205-NMSM-2.50M | 394812-0002   |                           |                               |
| Cable line                         | Times        | SFT205-NMSM-2.50M | 394812-0003   |                           |                               |
| Cable line                         | Times        | SFT205-NMSM-2.50M | 393495-0001   | (ci)                      | (6)                           |
| Cable line                         | Times        | EMC104-NMNM-1000  | SN160710      |                           |                               |
| Cable line                         | Times        | SFT205-NMSM-3.00M | 394813-0001   |                           |                               |
| Cable line                         | Times        | SFT205-NMNM-1.50M | 381964-0001   | (                         | <u>5</u> )                    |
| Cable line                         | Times        | SFT205-NMSM-7.00M | 394815-0001   |                           |                               |
| Cable line                         | Times        | HF160-KMKM-3.00M  | 393493-0001   | -                         |                               |



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### 5 Test results and Measurement Data

### 5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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.

**EUT Antenna:** Please see Internal photos

The antenna is LDS antenna. The best case gain of the antenna are Left ear: -0.31 dBi, Right ear: -0.29 dBi.

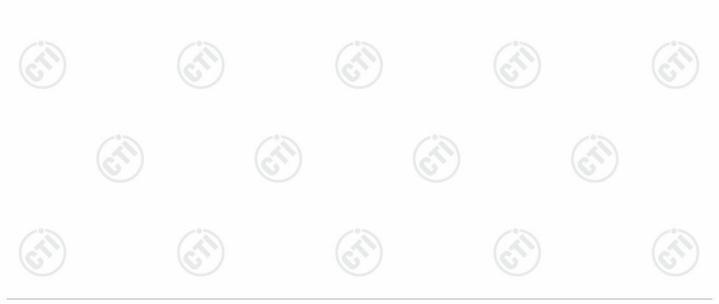






## 5.2 Maximum Conducted Output Power

| Test Requirement:      | 47 CFR Part 15C Section 15.247 (b)(1)   |  |  |  |  |
|------------------------|---|--|--|--|--|
| Test Method:           | ANSI C63.10:2013  |  |  |  |  |
| Test Setup:            | Control Conputer Power Supply Attenuator Instrument  Table  RF test System  Rystem  Instrument  |  |  |  |  |
|                        | Remark: Offset=Cable loss+ attenuation factor.  |  |  |  |  |
| Test Procedure:        | Use the following spectrum analyzer settings:  Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. |  |  |  |  |
| Limit:                 | 21dBm   |  |  |  |  |
| Exploratory Test Mode: | Non-hopping transmitting with all kind of modulation and all kind of data type  |  |  |  |  |
| Final Test Mode:       | Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type.  |  |  |  |  |
| Test Results:          | Refer to Appendix BT Classic  |  |  |  |  |
| 20%                    | 315   |  |  |  |  |

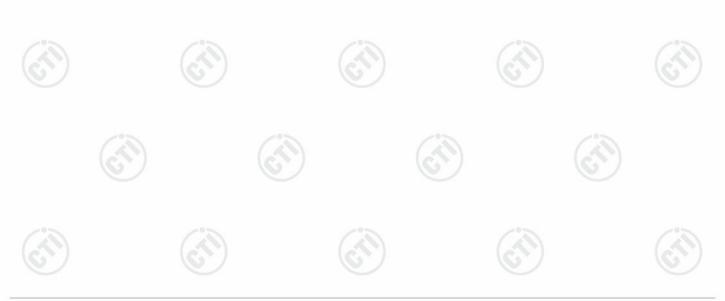




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## 5.3 20dB Emission Bandwidth

|      |                        | 70.7   |  |  |  |  |  |
|------|------------------------|--|--|--|--|--|--|
|      | Test Requirement:      | 47 CFR Part 15C Section 15.247 (a)(1)  |  |  |  |  |  |
|      | Test Method:           | ANSI C63.10:2013   |  |  |  |  |  |
| 1000 | Test Setup:            | Control Computer Power Supply Power Pool Table  RF test System System Instrument  Table  |  |  |  |  |  |
| 1822 | Test Procedure:        | Remark: Offset=Cable loss+ attenuation factor.  1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.  2. Set to the maximum power setting and enable the EUT transmit continuously.  3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.  Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤RBW ≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold.  4. Measure and record the results in the test report. |  |  |  |  |  |
|      | Limit:                 | NA   |  |  |  |  |  |
|      | Exploratory Test Mode: | Non-hopping transmitting with all kind of modulation and all kind of data type   |  |  |  |  |  |
|      | Final Test Mode:       | Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi$ /4DQPSK modulation type.  |  |  |  |  |  |
|      | Test Results:          | Refer to Appendix BT Classic   |  |  |  |  |  |
|      |                        |  |  |  |  |  |  |





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## 5.4 Carrier Frequency Separation

|     | 1                      |  |  |  |  |  |
|-----|------------------------|--|--|--|--|--|
|     | Test Requirement:      | 47 CFR Part 15C Section 15.247 (a)(1)  |  |  |  |  |
|     | Test Method:           | ANSI C63.10:2013   |  |  |  |  |
|     | Test Setup:            | Control Confrol Confrol Confrol Pools Pool |  |  |  |  |
|     |                        | Remark: Offset=Cable loss+ attenuation factor.   |  |  |  |  |
|     | Test Procedure:        | <ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings:         Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto;         Detector function = peak; Trace = max hold.         Use the marker-delta function to determine the separation between the peaks of the adjacent channels.         Record the value in report.     </li> </ol>  |  |  |  |  |
|     | Limit:                 | 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.   |  |  |  |  |
|     | Exploratory Test Mode: | Hopping transmitting with all kind of modulation and all kind of data type   |  |  |  |  |
|     | Final Test Mode:       | Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi$ /4DQPSK modulation type.  |  |  |  |  |
| 4   | Test Results:          | Refer to Appendix BT Classic   |  |  |  |  |
| 100 | 16.7                   |  |  |  |  |  |







## 5.5 Number of Hopping Channel

|                   | 17 050 D 1 170 O 11 17 047 ( ) (1)  |  |  |  |  |
|-------------------|---|--|--|--|--|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(1)   |  |  |  |  |
| Test Method:      | ANSI C63.10:2013  |  |  |  |  |
| Test Setup:       | Control Composition Advances Power Supply  Power Supply  Table  RF test  System  Instrument  Instrument   |  |  |  |  |
|                   | Remark: Offset=Cable loss+ attenuation factor.  |  |  |  |  |
| Test Procedure:   | <ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> </ol>  |  |  |  |  |
|                   | <ul> <li>3. Enable the EUT hopping function.</li> <li>4. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep= auto Detector function = peak; Trace = max hold.</li> <li>5. The number of hopping frequency used is defined as the number of</li> </ul> |  |  |  |  |
|                   | total channel.  |  |  |  |  |
|                   | 6. Record the measurement data in report.   |  |  |  |  |
| Limit:            | Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.   |  |  |  |  |
| Test Mode:        | Hopping transmitting with all kind of modulation  |  |  |  |  |
| Test Results:     | Refer to Appendix BT Classic  |  |  |  |  |





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## 5.6 Time of Occupancy

| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(1)  |  |  |  |  |
|-------------------|--|--|--|--|--|
| Test Method:      | ANSI C63.10:2013   |  |  |  |  |
| Test Setup:       | Control Control Power Power Pool Table  RF test System System Instrument  Table  |  |  |  |  |
|                   | Remark: Offset=Cable loss+ attenuation factor.   |  |  |  |  |
| Test Procedure:   | <ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set &gt;&gt; 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.</li> <li>Measure and record the results in the test report.</li> </ol> |  |  |  |  |
| Limit:            | 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.   |  |  |  |  |
| Test Mode:        | Hopping transmitting with all kind of modulation and all kind of data type.  |  |  |  |  |
| Test Results:     | Refer to Appendix BT Classic   |  |  |  |  |
| 1 4 9 1           |  |  |  |  |  |







## 5.7 Band edge Measurements

| / / / / / -            |   |  |  |  |  |
|------------------------|---|--|--|--|--|
| Test Requirement:      | 47 CFR Part 15C Section 15.247 (d)  |  |  |  |  |
| Test Method:           | ANSI C63.10:2013  |  |  |  |  |
| Test Setup:            | Control Control Power Power Pool TEMPERATURE CABRET  Table  RF test System System Instrument  |  |  |  |  |
|                        | Remark: Offset=Cable loss+ attenuation factor.  |  |  |  |  |
| Test Procedure:        | <ol> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz, VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.</li> <li>Enable hopping function of the EUT and then repeat step 2 and 3.</li> <li>Measure and record the results in the test report.</li> </ol> |  |  |  |  |
| Limit:                 | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.   |  |  |  |  |
| Exploratory Test Mode: | Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type  |  |  |  |  |
| Final Test Mode:       | Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type.  |  |  |  |  |
| Test Results:          | Refer to Appendix BT Classic  |  |  |  |  |







## 5.8 Conducted Spurious Emissions

| Test Requirement:      | 47 CFR Part 15C Section 15.247 (d)   |  |  |  |  |  |
|------------------------|--|--|--|--|--|--|
| Test Method:           | ANSI C63.10:2013   |  |  |  |  |  |
| Test Setup:            | Control Control Power Supply  Power Supply  Table  RF test  System  System  Instrument  Instrument   |  |  |  |  |  |
|                        | Remark: Offset=Cable loss+ attenuation factor.   |  |  |  |  |  |
| Test Procedure:        | <ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW.</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol> |  |  |  |  |  |
| Limit:                 | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.  |  |  |  |  |  |
| Exploratory Test Mode: | Non-hopping transmitting with all kind of modulation and all kind of data type   |  |  |  |  |  |
| Final Test Mode:       | Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi$ /4DQPSK modulation type.  |  |  |  |  |  |
| Test Results:          | Refer to Appendix BT Classic   |  |  |  |  |  |
| 4) / 23)               |  |  |  |  |  |  |







#### 5.9 **Pseudorandom Frequency Hopping Sequence**

#### 47 CFR Part 15C Section 15.247 (a)(1), (h) requirement: Test Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom 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.

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

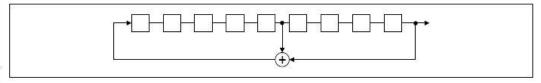
The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of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

#### Compliance for section 15.247(a)(1)

According to Bluetooth Core Specification, the pseudorandom sequence may be generated in a ninestage shift register whose 5th and 9th stage

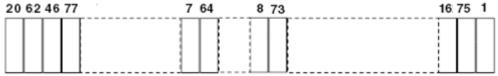
outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 29 -1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

According to Bluetooth Core Specification, Bluetooth receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any Bluetooth transmitters and shift frequencies in synchronization with the transmitted signals.





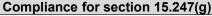










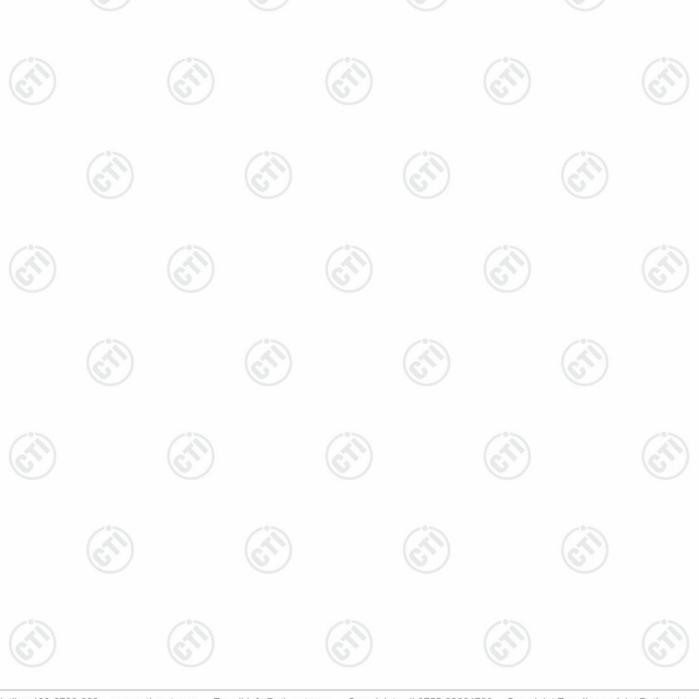


According to Bluetooth Core Specification, the Bluetooth system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

#### Compliance for section 15.247(h)

According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

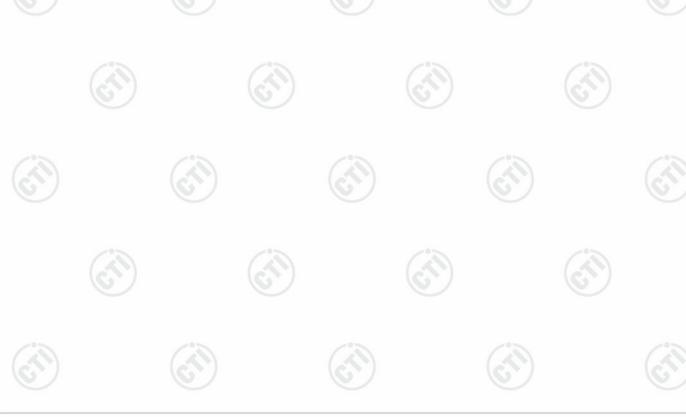






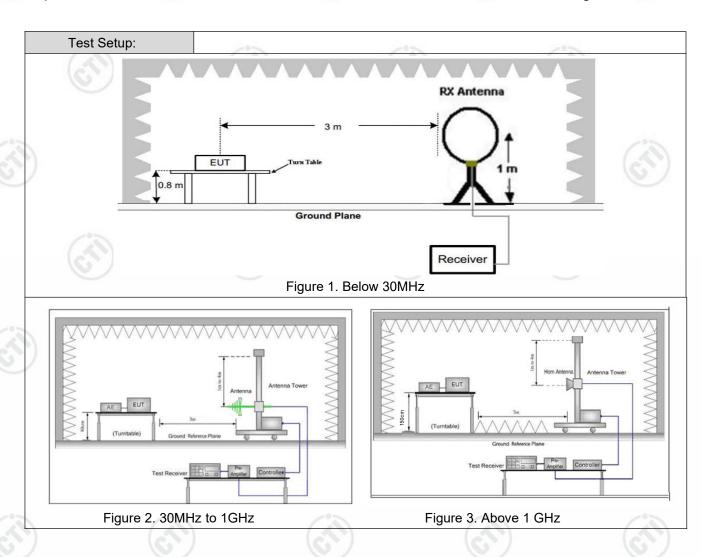
## 5.10 Radiated Spurious Emission & Restricted bands

| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205   |                |                              |                          |              |                            |  |
|-------------------|---|----------------|------------------------------|--------------------------|--------------|----------------------------|--|
| Test Method:      | ANSI C63.10: 2013   |                |                              |                          |              |                            |  |
| Test Site:        | Measurement Distance: 3m (Semi-Anechoic Chamber)                                      |                |                              |                          |              |                            |  |
|                   | Frequency   |                | Detector                     | RBW                      | VBW          | Remark                     |  |
|                   | 0.009MHz-0.090MHz   |                | Peak                         | 10kHz                    | 30kHz        | Peak                       |  |
|                   | 0.009MHz-0.090MHz   |                | Average                      | 10kHz                    | 30kHz        | Average                    |  |
|                   | 0.090MHz-0.110MH  | z              | Quasi-peak                   | 10kHz                    | 30kHz        | Quasi-peak                 |  |
| Receiver Setup:   | 0.110MHz-0.490MH  | z              | Peak                         | 10kHz                    | 30kHz        | Peak                       |  |
| Neceiver Setup.   | 0.110MHz-0.490MH  | z              | Average                      | 10kHz                    | 30kHz        | Average                    |  |
|                   | 0.490MHz -30MHz   |                | Quasi-peak                   | 10kHz                    | 30kHz        | Quasi-peak                 |  |
|                   | 30MHz-1GHz  |                | Peak                         | 100 kH                   | z 300kHz     | Peak                       |  |
|                   | Above 1GHz  |                | Peak                         | 1MHz                     | 3MHz         | Peak                       |  |
|                   |   |                | Peak                         | 1MHz                     | 10kHz        | Average                    |  |
|                   | Frequency   |                | ld strength<br>rovolt/meter) | Limit<br>(dBuV/m)        | Remark       | Measuremen<br>distance (m) |  |
|                   | 0.009MHz-0.490MHz   | 24             | 100/F(kHz)                   | -                        | -            | 300                        |  |
|                   | 0.490MHz-1.705MHz   | 24             | 000/F(kHz)                   | 02                       | -            | 30                         |  |
|                   | 1.705MHz-30MHz  | 6)             | 30                           | (                        | - (          | 30                         |  |
|                   | 30MHz-88MHz   |                | 100                          | 40.0                     | Quasi-peak   | 3                          |  |
|                   | 88MHz-216MHz  |                | 150                          | 43.5                     | Quasi-peak   | 3                          |  |
| Limit:            | 216MHz-960MHz   |                | 200                          | 46.0                     | Quasi-peak   | 3                          |  |
|                   | 960MHz-1GHz   |                | 500                          | 54.0                     | Quasi-peak   | 3                          |  |
|                   | Above 1GHz  |                | 500                          | 54.0                     | Average      | 3                          |  |
|                   | Note: 15.35(b), Unless<br>emissions is 20db<br>applicable to the<br>peak emission lev | 3 abc<br>equip | ove the maximoment under to  | num permi<br>est. This p | tted average | emission limit             |  |













| 62. | Test Procedure:        | <ul> <li>a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</li> <li>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum Hold Mode.</li> <li>f. If the emission level of the EUT in peak mode was 10dB lower than the</li> </ul> |
|-----|------------------------|---|
|     |                        | Bandwidth with Maximum Hold Mode.   |
| 9   | Exploratory Test Mode: | Non-hopping transmitting mode with all kind of modulation and all kind of   |
|     | Exploratory Tool Mode. | data type. Through Pre-scan, find the 2DH5 of data type and π/4DQPSK modulation is  |
|     |                        | the worst case.   |
|     | Final Test Mode:       | Pretest the EUT at Transmitting mode, For below 1GHz part, through pre-   |
|     |                        | scan, the worst case is the lowest channel. Only the worst case is recorded in the report.  |











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Test Results:

Pass

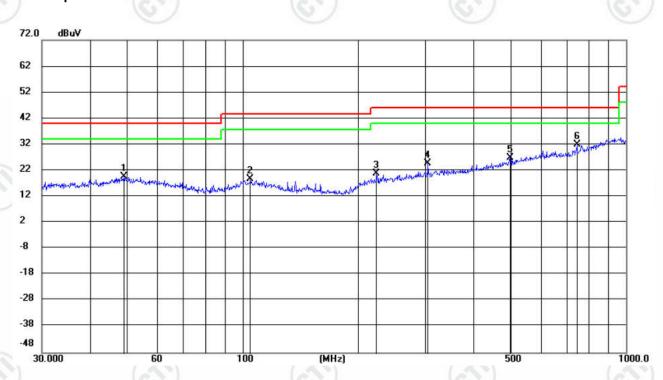


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### Radiated Spurious Emission below 1GHz:

During the test, the Radiated Spurious Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of DH5 for GFSK of left ear was recorded in the report.

#### Horizontal:



| No. M | Μk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Margin |          | Antenna<br>Height | Table<br>Degree | ł       |
|-------|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
|       |     | MHz      | dBuV             | dB                | dBuV/m           | dBuV/m | dB     | Detector | cm                | degree          | Comment |
| 1     |     | 49.0144  | 4.89             | 14.62             | 19.51            | 40.00  | -20.49 | peak     | 200               | 351             |         |
| 2     |     | 104.9032 | 5.03             | 13.58             | 18.61            | 43.50  | -24.89 | peak     | 200               | 4               |         |
| 3     |     | 223.7333 | 6.89             | 13.82             | 20.71            | 46.00  | -25.29 | peak     | 100               | 210             |         |
| 4     | 3   | 304.6099 | 7.86             | 16.92             | 24.78            | 46.00  | -21.22 | peak     | 100               | 210             |         |
| 5     | 19  | 499.4246 | 6.09             | 20.73             | 26.82            | 46.00  | -19.18 | peak     | 200               | 4               |         |
| 6     | *   | 744.8660 | 7.83             | 24.10             | 31.93            | 46.00  | -14.07 | peak     | 200               | 4               |         |









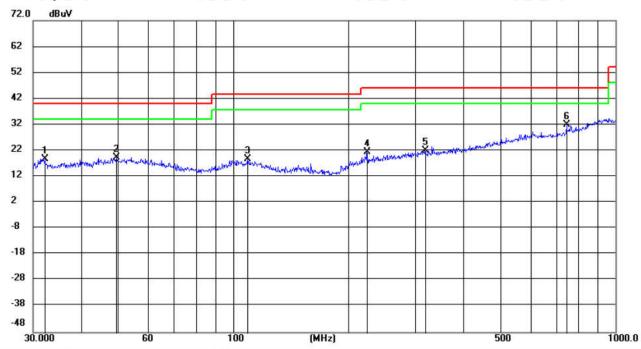






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#### Vertical:



| No. | Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Margin |          | Antenna<br>Height | Table<br>Degree |         |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
|     |     | MHz      | dBuV             | dB                | dBuV/m           | dBuV/m | dB     | Detector | cm                | degree          | Comment |
| 1   |     | 32.1795  | 6.08             | 12.79             | 18.87            | 40.00  | -21.13 | peak     | 100               | 191             |         |
| 2   |     | 49.5328  | 4.75             | 14.69             | 19.44            | 40.00  | -20.56 | peak     | 100               | 235             |         |
| 3   |     | 109.0286 | 5.31             | 13.53             | 18.84            | 43.50  | -24.66 | peak     | 100               | 4               |         |
| 4   |     | 223.7334 | 7.73             | 13.82             | 21.55            | 46.00  | -24.45 | peak     | 100               | 4               |         |
| 5   |     | 317.7011 | 4.94             | 17.10             | 22.04            | 46.00  | -23.96 | peak     | 100               | 31              |         |
| 6   | *   | 744.8661 | 7.83             | 24.10             | 31.93            | 46.00  | -14.07 | peak     | 100               | 4               |         |





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### **Radiated Spurious Emission above 1GHz**

During the test, the Radiates Emission from above 1GHz was performed in all modes, only the worst case left ear was recorded in the report.

| Mode | ):             |                | GFSK Transmit  | tting             |                   | Channel:    |        | 2402 MHz | <u>z</u> |
|------|----------------|----------------|----------------|-------------------|-------------------|-------------|--------|----------|----------|
| NO   | Freq.<br>[MHz] | Factor<br>[dB] | Reading [dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin [dB] | Result | Polarity | Remark   |
| 1    | 1323.6324      | 1.13           | 39.80          | 40.93             | 74.00             | 33.07       | Pass   | Н        | PK       |
| 2    | 1978.0978      | 4.44           | 39.19          | 43.63             | 74.00             | 30.37       | Pass   | Н        | PK       |
| 3    | 4804.1203      | -16.23         | 57.19          | 40.96             | 74.00             | 33.04       | Pass   | Н        | PK       |
| 4    | 7205.2804      | -11.83         | 54.72          | 42.89             | 74.00             | 31.11       | Pass   | Н        | PK       |
| 5    | 9883.4589      | -7.12          | 48.65          | 41.53             | 74.00             | 32.47       | Pass   | Н        | PK       |
| 6    | 14395.7597     | 1.15           | 43.69          | 44.84             | 74.00             | 29.16       | Pass   | Н        | PK       |
| 7    | 1225.2225      | 0.87           | 39.70          | 40.57             | 74.00             | 33.43       | Pass   | V        | PK       |
| 8    | 1885.2885      | 3.92           | 38.91          | 42.83             | 74.00             | 31.17       | Pass   | V        | PK       |
| 9    | 4804.1203      | -16.23         | 54.39          | 38.16             | 74.00             | 35.84       | Pass   | V        | PK       |
| 10   | 7206.2804      | -11.83         | 54.09          | 42.26             | 74.00             | 31.74       | Pass   | V        | PK       |
| 11   | 10404.4936     | -6.29          | 47.72          | 41.43             | 74.00             | 32.57       | Pass   | V        | PK       |
| 12   | 13715.7144     | -1.75          | 46.76          | 45.01             | 74.00             | 28.99       | Pass   | V        | PK       |

| Mode | <b>:</b>       |                | GFSK Transmit     | tting             | Channel:          |             | 2441 MHz |          |        |
|------|----------------|----------------|-------------------|-------------------|-------------------|-------------|----------|----------|--------|
| NO   | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin [dB] | Result   | Polarity | Remark |
| 1    | 1402.0402      | 1.39           | 39.55             | 40.94             | 74.00             | 33.06       | Pass     | Н        | PK     |
| 2    | 1944.4944      | 4.26           | 38.18             | 42.44             | 74.00             | 31.56       | Pass     | Н        | PK     |
| 3    | 4881.1254      | -16.21         | 54.61             | 38.40             | 74.00             | 35.60       | Pass     | Н        | PK     |
| 4    | 6102.2068      | -13.15         | 52.83             | 39.68             | 74.00             | 34.32       | Pass     | Н        | PK     |
| 5    | 7322.2882      | -11.65         | 51.83             | 40.18             | 74.00             | 33.82       | Pass     | Н        | PK     |
| 6    | 11048.5366     | -6.18          | 48.18             | 42.00             | 74.00             | 32.00       | Pass     | Н        | PK     |
| 7    | 1416.4416      | 1.41           | 39.43             | 40.84             | 74.00             | 33.16       | Pass     | V        | PK     |
| 8    | 1838.4838      | 3.56           | 39.43             | 42.99             | 74.00             | 31.01       | Pass     | V        | PK     |
| 9    | 4882.1255      | -16.21         | 53.10             | 36.89             | 74.00             | 37.11       | Pass     | V        | PK     |
| 10   | 6102.2068      | -13.15         | 51.71             | 38.56             | 74.00             | 35.44       | Pass     | V        | PK     |
| 11   | 7323.2882      | -11.65         | 51.52             | 39.87             | 74.00             | 34.13       | Pass     | V        | PK     |
| 12   | 11334.5556     | -6.46          | 48.58             | 42.12             | 74.00             | 31.88       | Pass     | V        | PK     |













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| Mode | :              |                | GFSK Transmit  | tting             |                   | Channel:    |        | 2480 MHz | 2      |
|------|----------------|----------------|----------------|-------------------|-------------------|-------------|--------|----------|--------|
| NO   | Freq.<br>[MHz] | Factor<br>[dB] | Reading [dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1    | 1236.8237      | 0.90           | 39.80          | 40.70             | 74.00             | 33.30       | Pass   | Н        | PK     |
| 2    | 1850.485       | 3.66           | 38.87          | 42.53             | 74.00             | 31.47       | Pass   | Н        | PK     |
| 3    | 4960.1307      | -15.97         | 56.31          | 40.34             | 74.00             | 33.66       | Pass   | Н        | PK     |
| 4    | 6199.2133      | -13.21         | 51.34          | 38.13             | 74.00             | 35.87       | Pass   | Н        | PK     |
| 5    | 7440.296       | -11.34         | 52.80          | 41.46             | 74.00             | 32.54       | Pass   | Н        | PK     |
| 6    | 10291.4861     | -6.52          | 48.68          | 42.16             | 74.00             | 31.84       | Pass   | Н        | PK     |
| 7    | 1334.6335      | 1.17           | 39.49          | 40.66             | 74.00             | 33.34       | Pass   | V        | PK     |
| 8    | 1799.4799      | 3.28           | 38.85          | 42.13             | 74.00             | 31.87       | Pass   | V        | PK     |
| 9    | 4960.1307      | -15.97         | 54.94          | 38.97             | 74.00             | 35.03       | Pass   | V        | PK     |
| 10   | 6200.2133      | -13.21         | 52.38          | 39.17             | 74.00             | 34.83       | Pass   | V        | PK     |
| 11   | 7439.296       | -11.34         | 50.98          | 39.64             | 74.00             | 34.36       | Pass   | V        | PK     |
| 12   | 11286.5524     | -6.61          | 49.49          | 42.88             | 74.00             | 31.12       | Pass   | V        | PK     |

| Mode | :              |                | π/4DQPSK Tra   | nsmitting         |                   | Channel:    |        | 2402 MHz |        |
|------|----------------|----------------|----------------|-------------------|-------------------|-------------|--------|----------|--------|
| NO   | Freq.<br>[MHz] | Factor<br>[dB] | Reading [dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1    | 1400.04        | 1.39           | 39.29          | 40.68             | 74.00             | 33.32       | Pass   | Н        | PK     |
| 2    | 1779.878       | 3.21           | 39.50          | 42.71             | 74.00             | 31.29       | Pass   | Н        | PK     |
| 3    | 4999.1333      | -15.82         | 52.73          | 36.91             | 74.00             | 37.09       | Pass   | Н        | PK     |
| 4    | 7580.3054      | -11.19         | 50.72          | 39.53             | 74.00             | 34.47       | Pass   | Н        | PK     |
| 5    | 9843.4562      | -7.24          | 48.86          | 41.62             | 74.00             | 32.38       | Pass   | Н        | PK     |
| 6    | 12593.6396     | -4.16          | 48.26          | 44.10             | 74.00             | 29.90       | Pass   | Н        | PK     |
| 7    | 1271.8272      | 0.98           | 40.06          | 41.04             | 74.00             | 32.96       | Pass   | V        | PK     |
| 8    | 1838.8839      | 3.57           | 38.67          | 42.24             | 74.00             | 31.76       | Pass   | V        | PK     |
| 9    | 3802.0535      | -19.24         | 55.26          | 36.02             | 74.00             | 37.98       | Pass   | V        | PK     |
| 10   | 6005.2003      | -12.97         | 54.83          | 41.86             | 74.00             | 32.14       | Pass   | V        | PK     |
| 11   | 7206.2804      | -11.83         | 52.23          | 40.40             | 74.00             | 33.60       | Pass   | V        | PK     |
| 12   | 9879.4586      | -7.14          | 48.33          | 41.19             | 74.00             | 32.81       | Pass   | V        | PK     |



























| Mode | :              |                | π/4DQPSK Tra   | nsmitting         |                   | Channel:    |        | 2441 MHz | 2441 MHz |  |
|------|----------------|----------------|----------------|-------------------|-------------------|-------------|--------|----------|----------|--|
| NO   | Freq.<br>[MHz] | Factor<br>[dB] | Reading [dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin [dB] | Result | Polarity | Remark   |  |
| 1    | 1160.8161      | 0.82           | 40.18          | 41.00             | 74.00             | 33.00       | Pass   | Н        | PK       |  |
| 2    | 1832.0832      | 3.52           | 39.14          | 42.66             | 74.00             | 31.34       | Pass   | Н        | PK       |  |
| 3    | 4882.1255      | -16.21         | 53.65          | 37.44             | 74.00             | 36.56       | Pass   | Н        | PK       |  |
| 4    | 6101.2067      | -13.15         | 54.66          | 41.51             | 74.00             | 32.49       | Pass   | Н        | PK       |  |
| 5    | 8827.3885      | -9.39          | 50.05          | 40.66             | 74.00             | 33.34       | Pass   | Н        | PK       |  |
| 6    | 11920.5947     | -5.71          | 49.10          | 43.39             | 74.00             | 30.61       | Pass   | Н        | PK       |  |
| 7    | 1302.8303      | 1.07           | 39.35          | 40.42             | 74.00             | 33.58       | Pass   | V        | PK       |  |
| 8    | 1850.485       | 3.66           | 38.08          | 41.74             | 74.00             | 32.26       | Pass   | V        | PK       |  |
| 9    | 6102.2068      | -13.15         | 56.15          | 43.00             | 74.00             | 31.00       | Pass   | V        | PK       |  |
| 10   | 7322.2882      | -11.65         | 52.40          | 40.75             | 74.00             | 33.25       | Pass   | V        | PK       |  |
| 11   | 10756.5171     | -6.34          | 49.44          | 43.10             | 74.00             | 30.90       | Pass   | V        | PK       |  |
| 12   | 13289.686      | -3.43          | 47.98          | 44.55             | 74.00             | 29.45       | Pass   | V        | PK       |  |

| Mode | :              |                | π/4DQPSK Transmitting |                   |                   | Channel:    |        | 2480 MHz |        |
|------|----------------|----------------|-----------------------|-------------------|-------------------|-------------|--------|----------|--------|
| NO   | Freq.<br>[MHz] | Factor<br>[dB] | Reading [dBµV]        | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1    | 1412.0412      | 1.40           | 39.74                 | 41.14             | 74.00             | 32.86       | Pass   | Н        | PK     |
| 2    | 1757.6758      | 3.14           | 39.81                 | 42.95             | 74.00             | 31.05       | Pass   | Н        | PK     |
| 3    | 6199.2133      | -13.21         | 55.20                 | 41.99             | 74.00             | 32.01       | Pass   | Н        | PK     |
| 4    | 7470.298       | -11.22         | 50.95                 | 39.73             | 74.00             | 34.27       | Pass   | Н        | PK     |
| 5    | 10284.4856     | -6.56          | 48.22                 | 41.66             | 74.00             | 32.34       | Pass   | Н        | PK     |
| 6    | 12579.6386     | -4.26          | 49.12                 | 44.86             | 74.00             | 29.14       | Pass   | Н        | PK     |
| 7    | 1280.028       | 1.01           | 39.48                 | 40.49             | 74.00             | 33.51       | Pass   | V        | PK     |
| 8    | 1793.6794      | 3.26           | 38.88                 | 42.14             | 74.00             | 31.86       | Pass   | V        | PK     |
| 9    | 6200.2133      | -13.21         | 56.42                 | 43.21             | 74.00             | 30.79       | Pass   | V        | PK     |
| 10   | 7439.296       | -11.34         | 50.92                 | 39.58             | 74.00             | 34.42       | Pass   | V        | PK     |
| 11   | 11017.5345     | -6.17          | 48.39                 | 42.22             | 74.00             | 31.78       | Pass   | V        | PK     |
| 12   | 13731.7154     | -1.72          | 47.31                 | 45.59             | 74.00             | 28.41       | Pass   | V        | PK     |























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| _ |      |                |                |                   |                   |                   |             |        |          |          |
|---|------|----------------|----------------|-------------------|-------------------|-------------------|-------------|--------|----------|----------|
|   | Mode | •              |                | 8DPSK Transm      | nitting           |                   | Channel:    |        | 2402 MHz | <u>z</u> |
|   | NO   | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin [dB] | Result | Polarity | Remark   |
|   | 1    | 1321.4321      | 1.13           | 39.46             | 40.59             | 74.00             | 33.41       | Pass   | Н        | PK       |
| è | 2    | 1974.4974      | 4.42           | 38.34             | 42.76             | 74.00             | 31.24       | Pass   | Н        | PK       |
| 9 | 3    | 4912.1275      | -16.15         | 52.54             | 36.39             | 74.00             | 37.61       | Pass   | Н        | PK       |
|   | 4    | 7205.2804      | -11.83         | 51.21             | 39.38             | 74.00             | 34.62       | Pass   | Н        | PK       |
|   | 5    | 10330.4887     | -6.41          | 48.16             | 41.75             | 74.00             | 32.25       | Pass   | Н        | PK       |
|   | 6    | 12673.6449     | -4.69          | 48.60             | 43.91             | 74.00             | 30.09       | Pass   | Н        | PK       |
|   | 7    | 1372.6373      | 1.30           | 39.95             | 41.25             | 74.00             | 32.75       | Pass   | V        | PK       |
|   | 8    | 1770.6771      | 3.18           | 38.71             | 41.89             | 74.00             | 32.11       | Pass   | V        | PK       |
|   | 9    | 4784.1189      | -16.29         | 54.32             | 38.03             | 74.00             | 35.97       | Pass   | V        | PK       |
|   | 10   | 6014.2009      | -12.99         | 56.45             | 43.46             | 74.00             | 30.54       | Pass   | V        | PK       |
| P | 11   | 7206.2804      | -11.83         | 52.06             | 40.23             | 74.00             | 33.77       | Pass   | V        | PK       |
| 9 | 12   | 11798.5866     | -6.11          | 48.83             | 42.72             | 74.00             | 31.28       | Pass   | V        | PK       |

| Mode | :              |                | 8DPSK Transm      | itting            | Channel:          |             | 2441 MHz |          |        |
|------|----------------|----------------|-------------------|-------------------|-------------------|-------------|----------|----------|--------|
| NO   | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin [dB] | Result   | Polarity | Remark |
| 1    | 1284.4284      | 1.02           | 39.41             | 40.43             | 74.00             | 33.57       | Pass     | Н        | PK     |
| 2    | 1987.6988      | 4.49           | 38.12             | 42.61             | 74.00             | 31.39       | Pass     | Н        | PK     |
| 3    | 4271.0847      | -17.46         | 53.36             | 35.90             | 74.00             | 38.10       | Pass     | Н        | PK     |
| 4    | 6103.2069      | -13.15         | 54.87             | 41.72             | 74.00             | 32.28       | Pass     | Н        | PK     |
| 5    | 9784.4523      | -7.44          | 49.00             | 41.56             | 74.00             | 32.44       | Pass     | Н        | PK     |
| 6    | 13657.7105     | -1.72          | 47.29             | 45.57             | 74.00             | 28.43       | Pass     | Н        | PK     |
| 7    | 1268.2268      | 0.98           | 39.59             | 40.57             | 74.00             | 33.43       | Pass     | V        | PK     |
| 8    | 1836.4836      | 3.55           | 38.82             | 42.37             | 74.00             | 31.63       | Pass     | V        | PK     |
| 9    | 4798.1199      | -16.24         | 60.34             | 44.10             | 74.00             | 29.90       | Pass     | V        | PK     |
| 10   | 6102.2068      | -13.15         | 55.90             | 42.75             | 74.00             | 31.25       | Pass     | V        | PK     |
| 11   | 7757.3172      | -11.23         | 51.40             | 40.17             | 74.00             | 33.83       | Pass     | V        | PK     |
| 12   | 10311.4874     | -6.44          | 49.47             | 43.03             | 74.00             | 30.97       | Pass     | V        | PK     |













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| Mode | :              |                | 8DPSK Transm   | nitting           |                   | Channel:    |        | 2480 MHz | <u>z</u> |
|------|----------------|----------------|----------------|-------------------|-------------------|-------------|--------|----------|----------|
| NO   | Freq.<br>[MHz] | Factor<br>[dB] | Reading [dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin [dB] | Result | Polarity | Remark   |
| 1    | 1386.8387      | 1.35           | 39.92          | 41.27             | 74.00             | 32.73       | Pass   | Н        | PK       |
| 2    | 1930.8931      | 4.19           | 38.85          | 43.04             | 74.00             | 30.96       | Pass   | Н        | PK       |
| 3    | 4431.0954      | -17.02         | 53.95          | 36.93             | 74.00             | 37.07       | Pass   | Н        | PK       |
| 4    | 6199.2133      | -13.21         | 55.51          | 42.30             | 74.00             | 31.70       | Pass   | Н        | PK       |
| 5    | 8936.3958      | -8.94          | 48.91          | 39.97             | 74.00             | 34.03       | Pass   | Н        | PK       |
| 6    | 12573.6382     | -4.30          | 48.48          | 44.18             | 74.00             | 29.82       | Pass   | Н        | PK       |
| 7    | 1394.8395      | 1.37           | 38.84          | 40.21             | 74.00             | 33.79       | Pass   | V        | PK       |
| 8    | 2005.1005      | 4.57           | 39.29          | 43.86             | 74.00             | 30.14       | Pass   | V        | PK       |
| 9    | 3306.0204      | -19.83         | 59.69          | 39.86             | 74.00             | 34.14       | Pass   | V        | PK       |
| 10   | 6200.2133      | -13.21         | 55.70          | 42.49             | 74.00             | 31.51       | Pass   | V        | PK       |
| 11   | 7440.296       | -11.34         | 50.84          | 39.50             | 74.00             | 34.50       | Pass   | V        | PK       |
| 12   | 11348.5566     | -6.39          | 49.16          | 42.77             | 74.00             | 31.23       | Pass   | V        | PK       |

#### Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
  - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



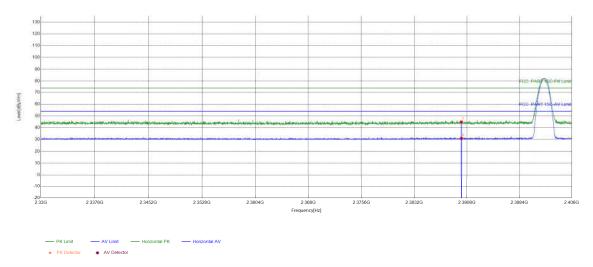


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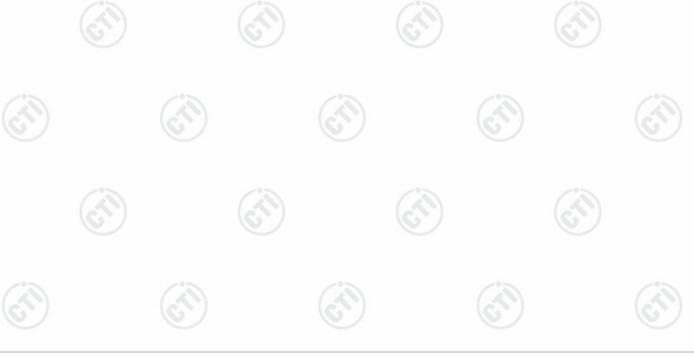
### **Restricted bands:**

### Test plot as follows:

| Mode:   | GFSK Transmitting | Channel: | 2402 |
|---------|-------------------|----------|------|
| Remark: | ) (c1)            | (2)      | ) (  |



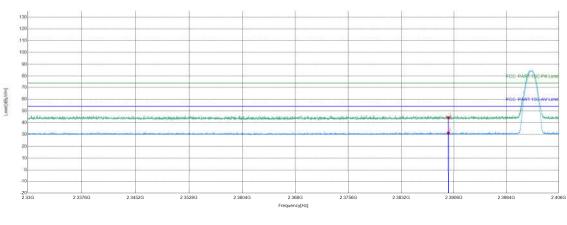
| Suspecte | d List         |                |                   |                   |                   |                |        |            |        |
|----------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|
| NO       | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity   | Remark |
| 1        | 2390           | 5.77           | 39.19             | 44.96             | 74.00             | 29.04          | PASS   | Horizontal | PK     |
| 2        | 2390           | 5.77           | 25.15             | 30.92             | 54.00             | 23.08          | PASS   | Horizontal | AV     |



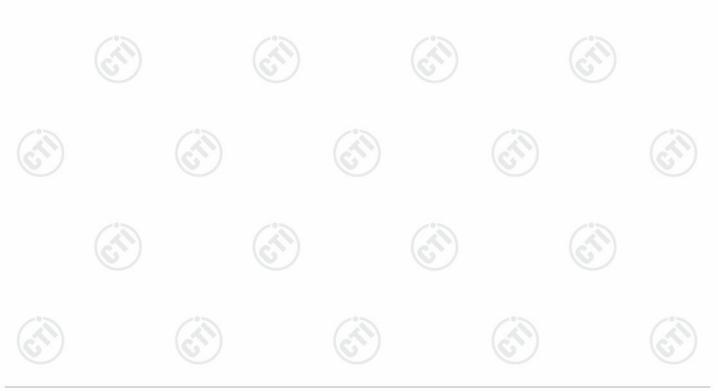


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| Mode:   | GFSK Transmitting | Channel: | 2402 |
|---------|-------------------|----------|------|
| Remark: |                   |          |      |



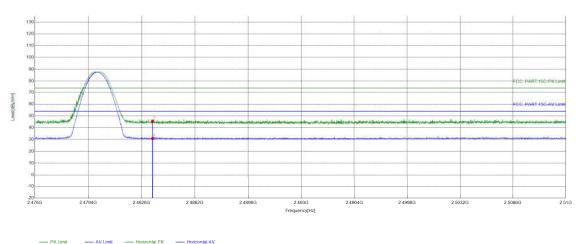
|   | Suspecte | d List         |                |                   |                   |                   |                |        |          |        |
|---|----------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
|   | NO       | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 3 | 1        | 2390           | 5.77           | 38.54             | 44.31             | 74.00             | 29.69          | PASS   | Vertical | PK     |
|   | 2        | 2390           | 5.77           | 25.46             | 31.23             | 54.00             | 22.77          | PASS   | Vertical | AV     |



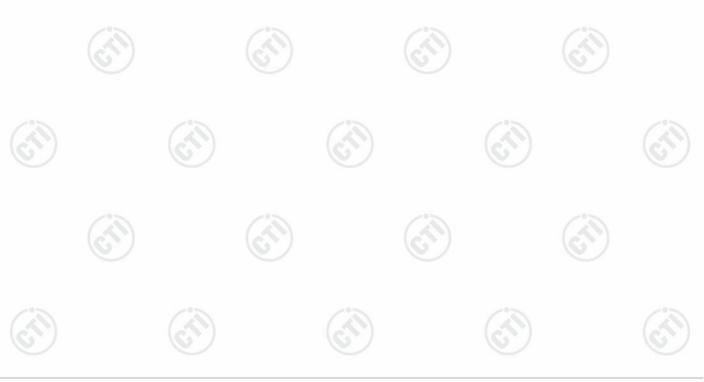


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| Mode:   | GFSK Transmitting | Channel: | 2480 |
|---------|-------------------|----------|------|
| Remark: |                   |          |      |



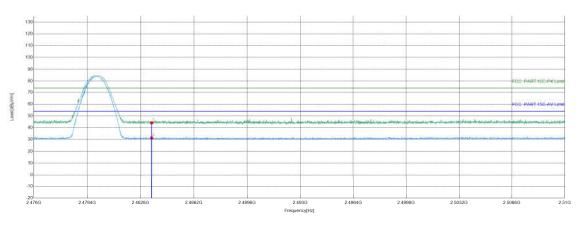
|   | Suspecte | d List         |                |                   |                   |                   |                |        |            |        |
|---|----------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|
|   | NO       | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity   | Remark |
| 1 | 1        | 2483.5         | 6.57           | 39.18             | 45.75             | 74.00             | 28.25          | PASS   | Horizontal | PK     |
| 1 | 2        | 2483.5         | 6.57           | 24.33             | 30.90             | 54.00             | 23.10          | PASS   | Horizontal | AV     |



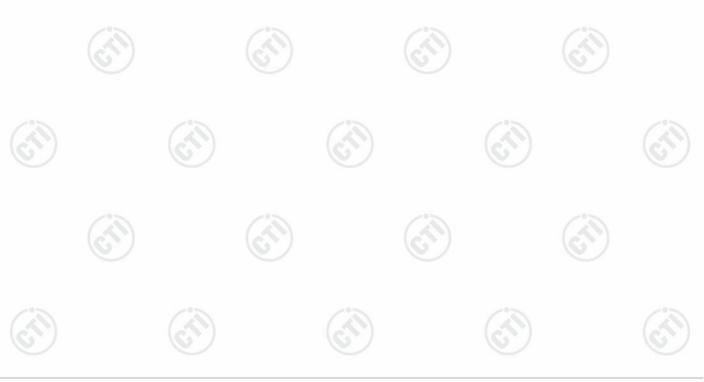


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| Mode:   | GFSK Transmitting | Channel: | 2480 |
|---------|-------------------|----------|------|
| Remark: |                   |          |      |



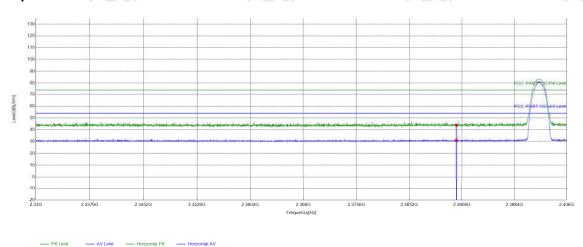
| Suspecte | d List         |                |                   |                   |                   |                |        |          |        |
|----------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO       | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1        | 2483.5         | 6.57           | 37.62             | 44.19             | 74.00             | 29.81          | PASS   | Vertical | PK     |
| 2        | 2483.5         | 6.57           | 24.76             | 31.33             | 54.00             | 22.67          | PASS   | Vertical | AV     |



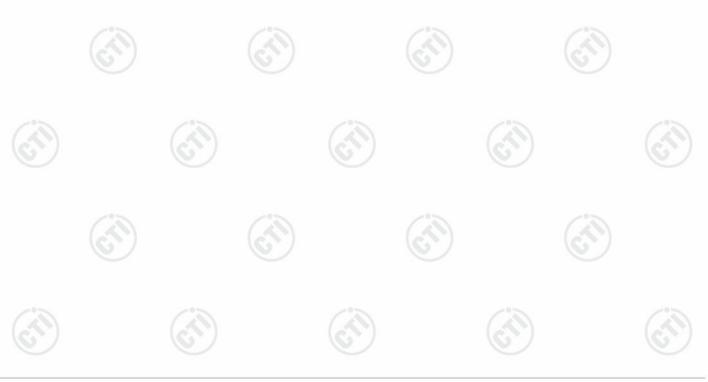


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| Mode:   | π/4DQPSK Transmitting | Channel: | 2402 |
|---------|-----------------------|----------|------|
| Remark: |                       |          |      |



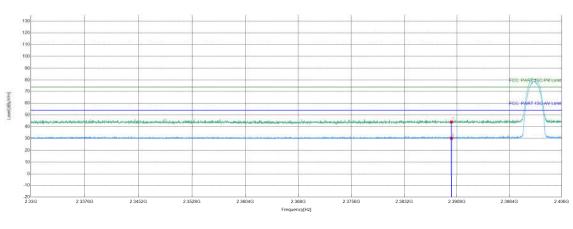
|     | Suspecte | d List         |                |                   |                   |                   |                |        |            |        |
|-----|----------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|
|     | NO       | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity   | Remark |
| 0.7 | 1        | 2390           | 5.77           | 38.10             | 43.87             | 74.00             | 30.13          | PASS   | Horizontal | PK     |
| ١   | 2        | 2390           | 5.77           | 25.14             | 30.91             | 54.00             | 23.09          | PASS   | Horizontal | AV     |



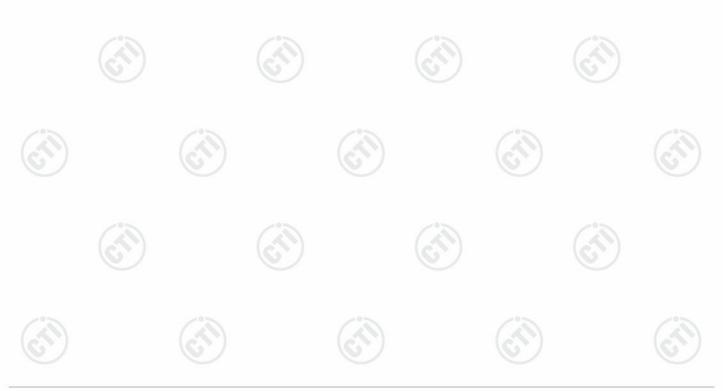


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|      |    |    |    |

| Mode: π/4DQPSK Transmitting  Remark: | π/4DQPSK Transmitting | Channel: | 2402 |
|--------------------------------------|-----------------------|----------|------|
| Remark:                              |                       |          |      |



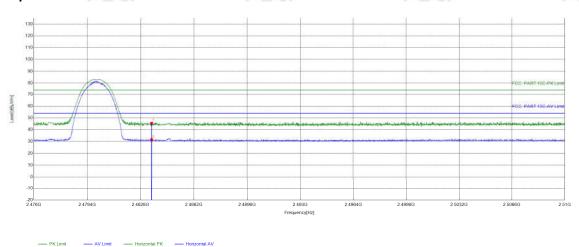
|   | Suspected List |                |                |                   |                   |                   |                |        |          |        |  |
|---|----------------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|--|
|   | NO             | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity | Remark |  |
| 2 | 1              | 2390           | 5.77           | 38.31             | 44.08             | 74.00             | 29.92          | PASS   | Vertical | PK     |  |
| 9 | 2              | 2390           | 5.77           | 24.48             | 30.25             | 54.00             | 23.75          | PASS   | Vertical | AV     |  |



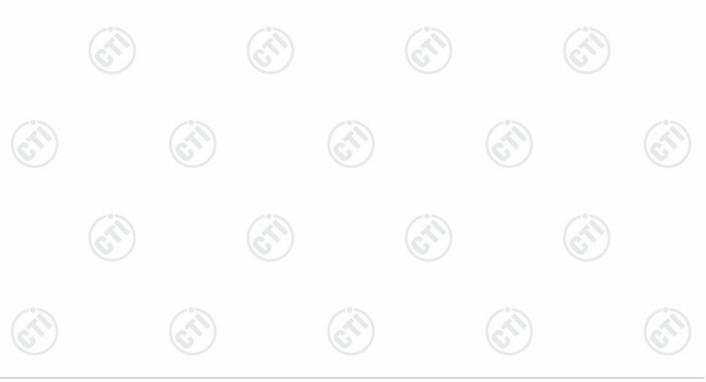


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| 4.31    | L & 30                | 1 4 6    | 1 4 3 1 |
|---------|-----------------------|----------|---------|
| Mode:   | π/4DQPSK Transmitting | Channel: | 2480    |
| Remark: |                       |          |         |



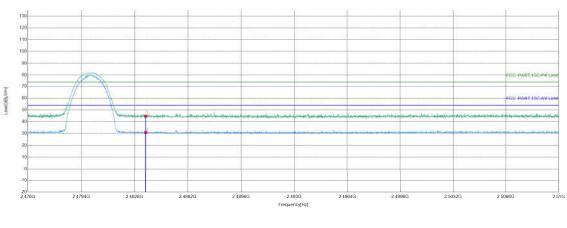
|   | Suspecte | d List         |                |                   |                   |                   |                |        |            |        |
|---|----------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|
|   | NO       | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity   | Remark |
| 1 | 1        | 2483.5         | 6.57           | 39.02             | 45.59             | 74.00             | 28.41          | PASS   | Horizontal | PK     |
| 1 | 2        | 2483.5         | 6.57           | 24.90             | 31.47             | 54.00             | 22.53          | PASS   | Horizontal | AV     |



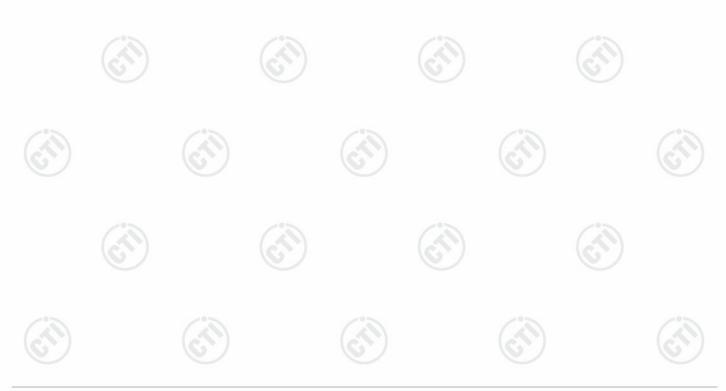


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| 10.34   | ( 46.34)              | (40)     | 160  |
|---------|-----------------------|----------|------|
| Mode:   | π/4DQPSK Transmitting | Channel: | 2480 |
| Remark: |                       |          |      |



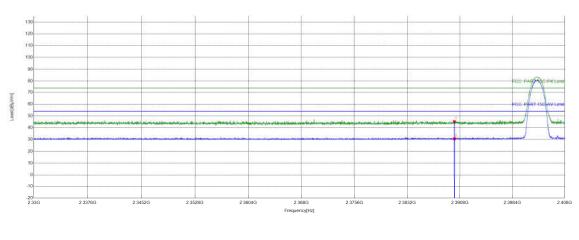
|   | Suspected List |                |                |                   |                   |                   |                |        |          |        |  |
|---|----------------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|--|
|   | NO             | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity | Remark |  |
| 1 | 1              | 2483.5         | 6.57           | 38.16             | 44.73             | 74.00             | 29.27          | PASS   | Vertical | PK     |  |
| 1 | 2              | 2483.5         | 6.57           | 24.25             | 30.82             | 54.00             | 23.18          | PASS   | Vertical | AV     |  |



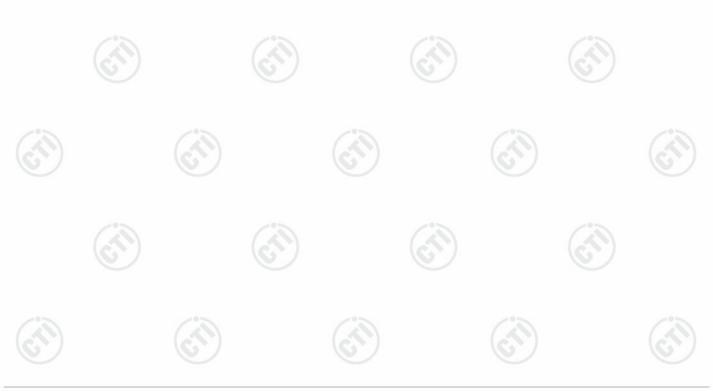


| 4.31    | ( 4.3)             | ( 400)   | / 4/ 1/ |
|---------|--------------------|----------|---------|
| Mode:   | 8DPSK Transmitting | Channel: | 2402    |
| Remark: |                    |          |         |

#### **Test Graph**



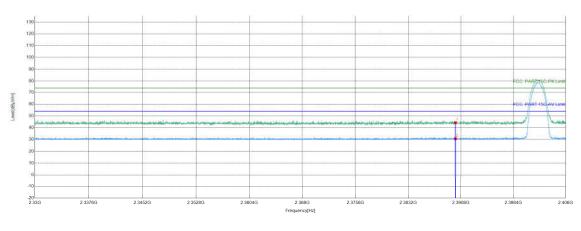
Suspected List Factor Reading Level Limit Freq. Margin NO [dB] Result Polarity Remark [MHz] [dBµV] [dBµV/m] [dBµV/m] [dB] 2390 39.44 45.21 74.00 28.79 **PASS** PΚ 5.77 Horizontal 2 2390 23.41 **PASS** 5.77 24.82 30.59 54.00 Horizontal ΑV



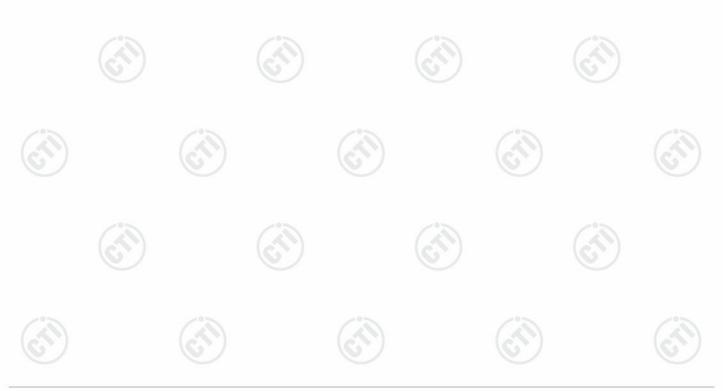


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|------|----|-------|
|------|----|-------|

| Mode:   | 8DPSK Transmitting | Channel: | 2402 |
|---------|--------------------|----------|------|
| Remark: |                    |          |      |



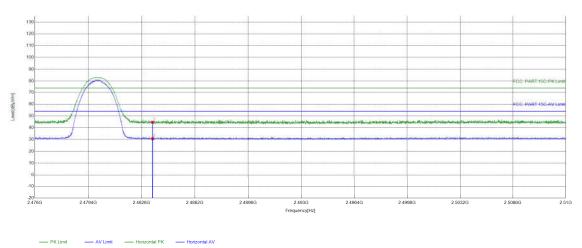
|   | Suspecte | d List         |                |                   |                   |                   |                |        |          |        |
|---|----------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
|   | NO       | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1 | 1        | 2390           | 5.77           | 38.51             | 44.28             | 74.00             | 29.72          | PASS   | Vertical | PK     |
| 1 | 2        | 2390           | 5.77           | 24.91             | 30.68             | 54.00             | 23.32          | PASS   | Vertical | AV     |



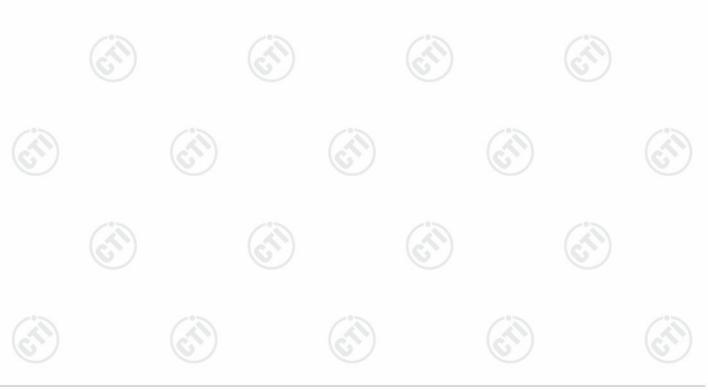


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|---------|-------|--|
|---------|-------|--|

| Mode:   | 8DPSK Transmitting | Channel: | 2480 |
|---------|--------------------|----------|------|
| Remark: |                    | ·        |      |



| Suspect | ed List        |                |                   |                   |                   |                |        |            |        |
|---------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|
| NO      | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity   | Remark |
| 1       | 2483.5         | 6.57           | 38.11             | 44.68             | 74.00             | 29.32          | PASS   | Horizontal | PK     |
| 2       | 2483.5         | 6.57           | 24.05             | 30.62             | 54.00             | 23.38          | PASS   | Horizontal | AV     |

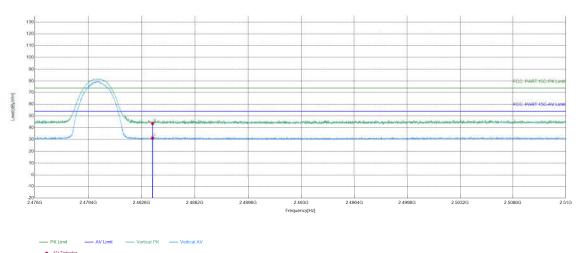




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| Mode:   | 8DPSK Transmitting | Channel: | 2480 |
|---------|--------------------|----------|------|
| Remark: |                    |          |      |

#### **Test Graph**



|   | Suspecte | d List         |                |                   |                   |                   |                |        |          |        |
|---|----------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
|   | NO       | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1 | 1        | 2483.5         | 6.57           | 37.11             | 43.68             | 74.00             | 30.32          | PASS   | Vertical | PK     |
| 1 | 2        | 2483.5         | 6.57           | 24.67             | 31.24             | 54.00             | 22.76          | PASS   | Vertical | AV     |

#### Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor – Antenna Factor – Cable Factor







# 6 Appendix BT Classic

Refer to Appendix: Bluetooth Classic of EED32P80349002.























































































