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# TEST REPORT

- Product Trade mark Model/Type reference Serial Number Report Number FCC ID Date of Issue Test Standards Test result
- : Infrared Ear Thermometer
- : N/A
- : DET-1026b
- : N/A
- : EED32P81026701
- : 2AQVU0043
- : Aug. 29, 2023
- : 47 CFR Part 15 Subpart C
- : PASS

Prepared for:

JOYTECH Healthcare Co., Ltd. No. 365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 31100 Zhejiang, China

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China TEL: +86-755-3368 3668 FAX: +86-755-3368 3385







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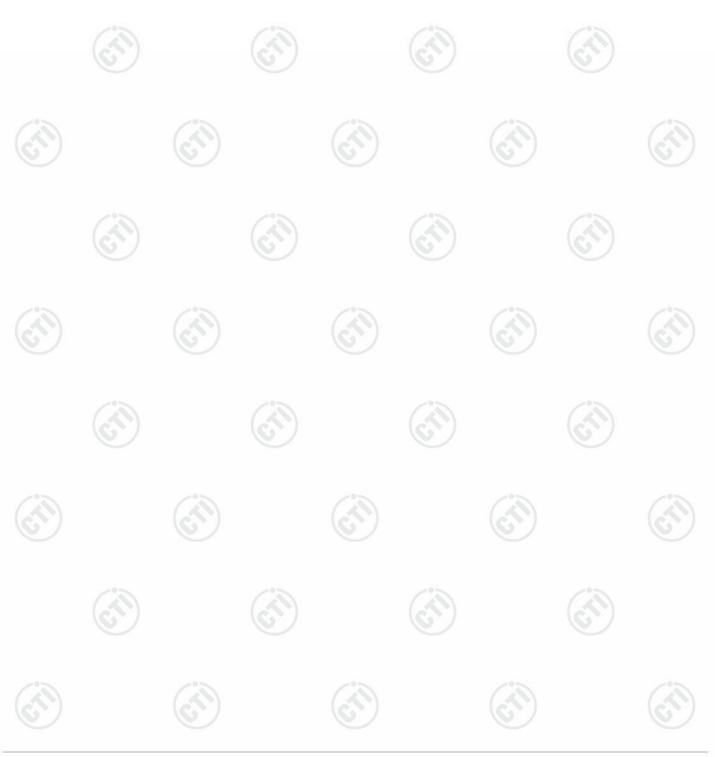
| 1 COVER PAGE   | ••••••                  | ••••••   |  |
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|  |                         |          |  |
|  |                         |          |  |





#### **3 Version**

|   | Version No. | Date          | 1         | Description | /    |
|---|-------------|---------------|-----------|-------------|------|
|   | 00          | Aug. 29, 2023 |           | Original    |      |
| 2 | /           | 1             | 1         | (°)         | 12   |
|   | (           | S*)           | $(d^{n})$ | (35)        | (65) |





#### Tost Summary



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| Test Item  | Test Requirement                                      | Result      |  |
|--|---|-------------|--|
| Antenna Requirement                              | 47 CFR Part 15 Subpart C Section<br>15.203/15.247 (c) | PASS<br>N/A |  |
| AC Power Line Conducted<br>Emission              | 47 CFR Part 15 Subpart C Section<br>15.207            |             |  |
| DTS Bandwidth                                    | 47 CFR Part 15 Subpart C Section<br>15.247 (a)(2)     | PASS        |  |
| Maximum Conducted Output<br>Power                | 47 CFR Part 15 Subpart C Section<br>15.247 (b)(3)     | PASS        |  |
| Maximum Power Spectral<br>Density                | 47 CFR Part 15 Subpart C Section 15.247 (e)           | 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 Emission &<br>Restricted bands | 47 CFR Part 15 Subpart C Section<br>15.205/15.209     | PASS        |  |

N/A:Only battery supply is supported and this item is not considered. 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.





#### **General Information** 5

# 5.1 Client Information

| JOYTECH Healthcare Co., Ltd.                            |   |
|---|---|
| No. 365, Wuzhou Road, Yuhang Economic Development Zone, |   |
| Hangzhou City, 31100 Zhejiang, China                    | 100   |
| JOYTECH Healthcare Co., Ltd.                            | A   |
| No. 365, Wuzhou Road, Yuhang Economic Development Zone, | C   |
| Hangzhou City, 31100 Zhejiang, China                    |   |
| JOYTECH Healthcare Co., Ltd.                            |   |
| No. 365, Wuzhou Road, Yuhang Economic Development Zone, |   |
| Hangzhou City, 31100 Zhejiang, China                    |   |
|   | <ul> <li>No. 365, Wuzhou Road, Yuhang Economic Development Zone,<br/>Hangzhou City, 31100 Zhejiang, China</li> <li>JOYTECH Healthcare Co., Ltd.</li> <li>No. 365, Wuzhou Road, Yuhang Economic Development Zone,<br/>Hangzhou City, 31100 Zhejiang, China</li> <li>JOYTECH Healthcare Co., Ltd.</li> <li>No. 365, Wuzhou Road, Yuhang Economic Development Zone,</li> </ul> |

# 5.2 General Description of EUT

| Product Name:         | Infrared Ear Thermometer               |      |
|-----------------------|--|------|
| Model No.(EUT):       | DET-1026b                              |      |
| Trade mark:           | N/A                                    | (A)  |
| Product Type:         | Mobile      Portable      Fix Location | S    |
| Operation Frequency:  | 2402MHz~2480MHz                        |      |
| Modulation Type:      | GFSK                                   |      |
| Transfer Rate:        | 1Mbps, 2Mbps                           |      |
| Number of Channel:    | 40                                     |      |
| Antenna Type:         | PCB Antenna                            |      |
| Antenna Gain:         | -1.37612dBi                            | 10.1 |
| Power Supply:         | Battery DC 3V                          |      |
| Test Voltage:         | DC 3V                                  | 6    |
| Sample Received Date: | Jul. 06, 2023                          |      |
| Sample tested Date:   | Jul. 06, 2023 to Aug. 01, 2023         |      |
| 200                   |  |      |





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| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 0       | 2402MHz   | 10      | 2422MHz   | 20      | 2442MHz   | 30      | 2462MHz   |
| 1       | 2404MHz   | 11      | 2424MHz   | 21      | 2444MHz   | 31      | 2464MHz   |
| 2       | 2406MHz   | 12      | 2426MHz   | 22      | 2446MHz   | 32      | 2466MHz   |
| 3       | 2408MHz   | 13      | 2428MHz   | 23      | 2448MHz   | 33      | 2468MHz   |
| 4       | 2410MHz   | 14      | 2430MHz   | 24      | 2450MHz   | 34      | 2470MHz   |
| 5       | 2412MHz   | 15      | 2432MHz   | 25      | 2452MHz   | 35      | 2472MHz   |
| 6       | 2414MHz   | 16      | 2434MHz   | 26      | 2454MHz   | 36      | 2474MHz   |
| 7       | 2416MHz   | 17      | 2436MHz   | 27      | 2456MHz   | 37      | 2476MHz   |
| 8       | 2418MHz   | 18      | 2438MHz   | 28      | 2458MHz   | 38      | 2478MHz   |
| 9       | 2420MHz   | 19      | 2440MHz   | 29      | 2460MHz   | 39      | 2480MHz   |

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 (CH0)   | 2402MHz   |
| The middle channel (CH19)  | 2440MHz   |
| The highest channel (CH39) | 2480MHz   |
|                            |           |

### 5.3 Test Configuration

| EUT Test Software                             | Settings:         |                                 |                       |                      |
|---|-------------------|---------------------------------|-----------------------|----------------------|
| Test Software of EL                           | JT: PhyPlu        | ısKit                           | $\langle c \rangle$   | (25)                 |
| EUT Power Grade:                              | Defaul<br>selecte | t(Power level is built-in seed) | et parameters and c   | annot be changed and |
| Use test software to<br>transmitting of the E | •                 | ency, the middle frequer        | ncy and the highest f | frequency keep       |
| Test Mode                                     | Modulation        | Rate                            | Channel               | Frequency(MHz)       |
| Mode a  | GFSK              | 1Mbps                           | CH0                   | 2402                 |
| Mode b  | GFSK              | 1Mbps                           | CH19                  | 2440                 |
| Mode c  | GFSK              | 1Mbps                           | CH39                  | 2480                 |
| Mode d  | GFSK              | 2Mbps                           | CH0                   | 2402                 |
| Mode e  | GFSK              | 2Mbps                           | CH19                  | 2440                 |
| Mode f  | GFSK              | 2Mbps                           | CH39                  | 2480                 |
|   |                   |                                 |                       |                      |







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# 5.4 Test Environment

| Operating Environment  | :          |                               |     |     |
|------------------------|------------|-------------------------------|-----|-----|
| Radiated Spurious Emis | sions:     |                               |     |     |
| Temperature:           | 22~25.0 °C | 6                             |     | (2) |
| Humidity:              | 50~55 % RH |                               | (e) | S   |
| Atmospheric Pressure:  | 1010mbar   |                               |     |     |
| RF Conducted:          |            |                               |     |     |
| Temperature:           | 22~25.0 °C |                               | C   | 0   |
| Humidity:              | 50~55 % RH | $\langle \mathcal{O} \rangle$ | G   | 9   |
| Atmospheric Pressure:  | 1010mbar   |                               |     |     |

# 5.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

| Description | Manufacturer | Model No.     | Certification | Supplied by |
|-------------|--------------|---------------|---------------|-------------|
| Netbook     | DELL         | Latitude 3490 | FCC&CE        | CTI         |

# 5.6 Test Location

All tests were performed at:

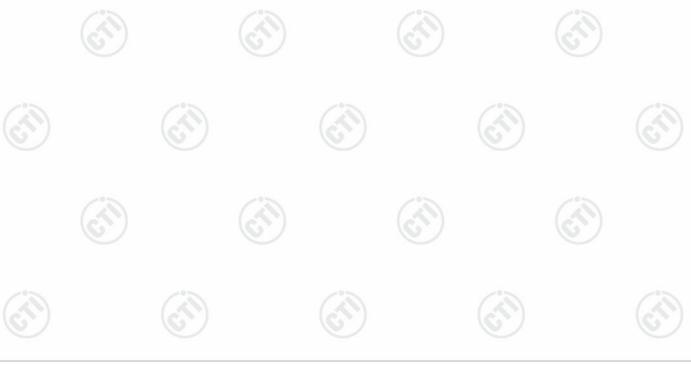
Centre Testing International Group Co., Ltd

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



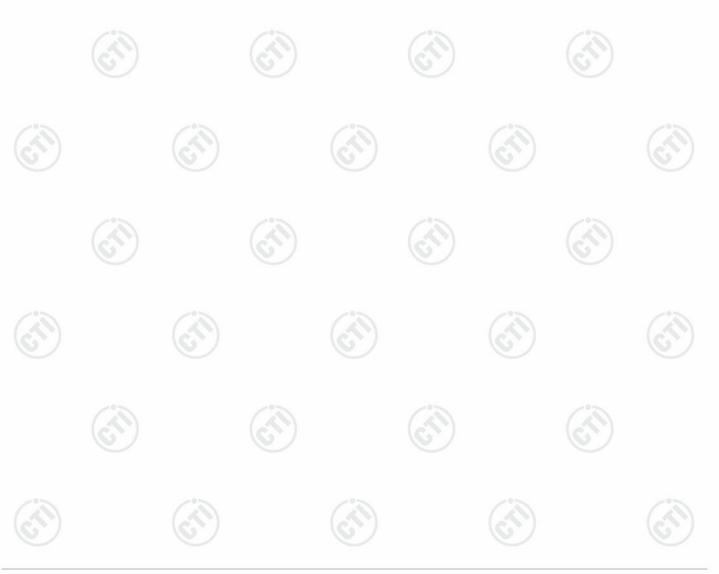




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# 5.7 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Radio Frequency                 | 7.9 x 10 <sup>-8</sup>  |
| 2   | PE power conducted              | 0.46dB (30MHz-1GHz)     |
| 2   | RF power, conducted             | 0.55dB (1GHz-40GHz)     |
|     |                                 | 3.3dB (9kHz-30MHz)      |
| 3   | Padiated Spurious amission test | 4.3dB (30MHz-1GHz)      |
| 3   | Radiated Spurious emission test | 4.5dB (1GHz-18GHz)      |
| (P) |                                 | 3.4dB (18GHz-40GHz)     |
|     | Conduction emission             | 3.5dB (9kHz to 150kHz)  |
| 4   | Conduction emission             | 3.1dB (150kHz to 30MHz) |
| 5   | Temperature test                | 0.64°C                  |
| 6   | Humidity test                   | 3.8%                    |
| 7   | DC power voltages               | 0.026%                  |





# 6 Equipment List

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|  |                        | RF test s |               |                           |                               |  |
|--|------------------------|-----------|---------------|---------------------------|-------------------------------|--|
| Equipment  | Manufacturer           | Model No. | Serial Number | Cal. Date<br>(mm-dd-yyyy) | Cal. Due date<br>(mm-dd-yyyy) |  |
| Spectrum Analyzer                                  | Keysight               | N9010A    | MY54510339    | 12-23-2022                | 12-22-2023                    |  |
| Signal Generator                                   | Keysight               | N5182B    | MY53051549    | 12-19-2022                | 12-18-2023                    |  |
| Signal Generator                                   | Agilent                | N5181A    | MY46240094    | 12-19-2022                | 12-18-2023                    |  |
| DC Power   | Keysight               | E3642A    | MY56376072    | 12-19-2022                | 12-18-2023                    |  |
| Wi-Fi 7GHz Band<br>Extendder                       | JS Tonscend            | TS-WF7U2  | 2206200002    | 06-09-2023                | 06-08-2024                    |  |
| RF control unit                                    | JS Tonscend            | JS0806-2  | 158060006     | 12-23-2022                | 12-22-2023<br>12-22-2023      |  |
| Communication test                                 | R&S                    | CMW500    | 120765        | 12-23-2022                |                               |  |
| high-low<br>temperature test<br>chamber            | Dong Guang Qin<br>Zhuo | LK-80GA   | QZ20150611879 | 12-19-2022                | 12-18-2023                    |  |
| Temperature/<br>Humidity Indicator                 | biaozhi                | HM10      | 1804186       | 06-01-2023                | 05-31-2024                    |  |
| BT&WI-FI<br>Automatic test JS Tonscend<br>software |                        | JS1120-3  | 2.6.77.0518   |                           | (d)                           |  |







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| Equipment                              | Manufacturer | Model            | Serial No.   | Cal. Date  | Due Date   |  |
|--|--------------|------------------|--------------|------------|------------|--|
| 3M Chamber &<br>Accessory<br>Equipment | TDK          | SAC-3            | 9            | 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 | 05/21/2025 |  |
| Loop Antenna                           | Schwarzbeck  | FMZB 1519B       | 1519B-076    | 04/15/2021 | 04/14/2024 |  |
| Multi device<br>Controller             | maturo       | NCD/070/10711112 | )            | S          |            |  |
| Horn Antenna                           | ETS-LINGREN  | BBHA 9120D       | 9120D-1869   | 04/15/2021 | 04/14/2024 |  |
| Microwave<br>Preamplifier              | Agilent      | 8449B            | 3008A02425   | 06/20/2023 | 06/19/2024 |  |
| Test software                          | Fara         | EZ-EMC           | EMEC-3A1-Pre |            |            |  |























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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>y) (mm-dd-yyyy)<br>   |  |
| RSE Automatic<br>test software     | JS Tonscend  | JS36-RSE          | 10166         | (A)                       |  |  |
| 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        | 04-13-2023                | 04-12-2024                             |  |
| Preamplifier                       | EMCI         | EMC001330         | 980563        | 03-28-2023                | 03-27-2024                             |  |
| Preamplifier                       | JS Tonscend  | TAP-011858        | AP21B806112   | 07-29-2022                | 07-28-2023<br>07-24-2024<br>12-22-2023 |  |
| Communication test set             | R&S          | CMW500            | 102898        | 12-23-2022                |  |  |
| Temperature/<br>Humidity Indicator | biaozhi      | GM1360            | EE1186631     | 04-11-2023                | 04-10-2024                             |  |
| Fully Anechoic<br>Chamber          | TDK          | FAC-3             |               | 01-09-2021                | 1 01-08-2024                           |  |
| Cable line                         | Times        | SFT205-NMSM-2.50M | 394812-0001   |                           |  |  |
| Cable line                         | Times        | SFT205-NMSM-2.50M | 394812-0002   |                           |  |  |
| Cable line                         | Times        | SFT205-NMSM-2.50M | 394812-0003   |                           | (ć                                     |  |
| Cable line                         | Times        | SFT205-NMSM-2.50M | 393495-0001   | <u> </u>                  |  |  |
| Cable line                         | Times        | EMC104-NMNM-1000  | SN160710      |                           |  |  |
| Cable line                         | Times        | SFT205-NMSM-3.00M | 394813-0001   | (                         | st)                                    |  |
| Cable line                         | Times        | SFT205-NMNM-1.50M | 381964-0001   |                           |  |  |
| Cable line                         | Times        | SFT205-NMSM-7.00M | 394815-0001   | ~~~~                      |  |  |
| Cable line                         | Times        | HF160-KMKM-3.00M  | 393493-0001   | $( \overset{\frown}{})$   |  |  |



#### 7 Test results and Measurement Data

#### 7.1 Antenna Requirement

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

#### 15.203 requirement:

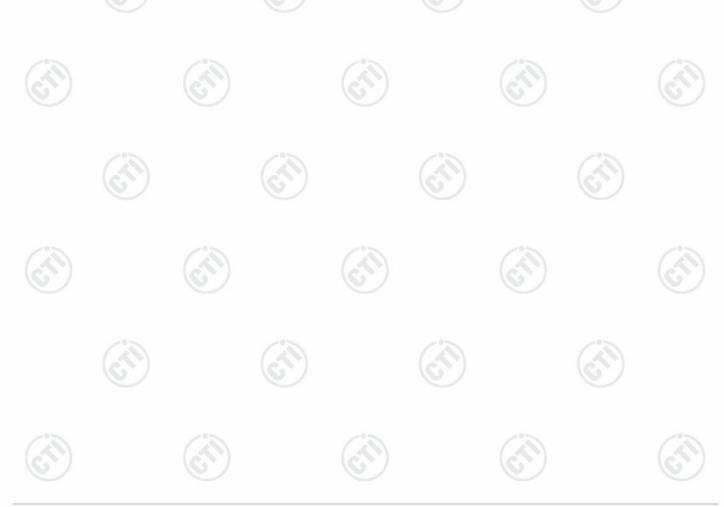
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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                        | $\bigcirc$ |
|---------------------------|---|------------|
| The antenna is PCB antenn | a The best case gain of the antenna is 1 37612dBi |            |

The antenna is PCB antenna. The best case gain of the antenna is -1.3/612dBi.

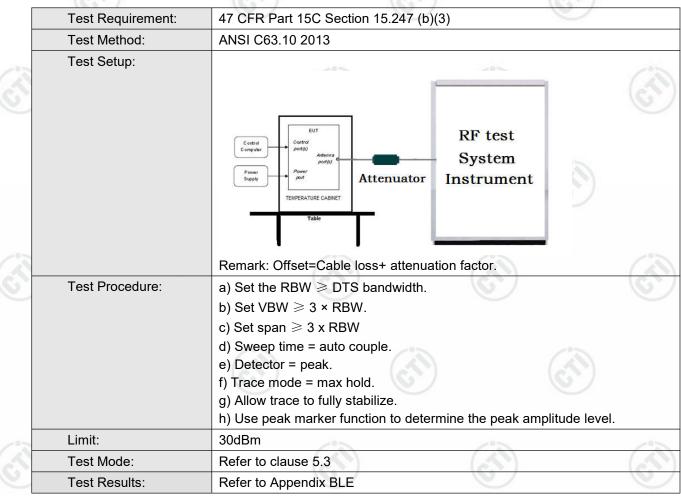






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## 7.2 Maximum Conducted Output Power





Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com





### 7.3 DTS Bandwidth

| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(2)   |                 |  |  |  |  |  |
|-------------------|---|-----------------|--|--|--|--|--|
| Test Method:      | ANSI C63.10 2013  |                 |  |  |  |  |  |
| Test Setup:       |   | (A)             |  |  |  |  |  |
|                   | Control<br>Computer<br>Power<br>Suppy<br>TEMPERATURE CABNET<br>Table  |                 |  |  |  |  |  |
| Test Procedure:   | Remark: Offset=Cable loss+ attenuation factor.         a) Set RBW = 100 kHz.         b) Set the VBW ≥[3 × RBW].         c) Detector = peak.         d) Trace mode = max hold.   |                 |  |  |  |  |  |
|                   | <ul> <li>e) Sweep = auto couple.</li> <li>f) Allow the trace to stabilize.</li> <li>g) Measure the maximum width of the emission that is constrained frequencies associated with the two outermost amplitude points (upplower frequencies) that are attenuated by 6 dB relative to the maximum measured in the fundamental emission.</li> </ul> | per and         |  |  |  |  |  |
| Limit:            | ≥ 500 kHz   | $(\mathcal{A})$ |  |  |  |  |  |
| Test Mode:        | Refer to clause 5.3   | J               |  |  |  |  |  |
| Test Results:     | Refer to Appendix BLE   |                 |  |  |  |  |  |







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# 7.4 Maximum Power Spectral Density

|   | Test Requirement: | 47 CFR Part 15C Section 15.247 (e)  |  |  |  |  |  |  |
|---|-------------------|---|--|--|--|--|--|--|
|   | Test Method:      | ANSI C63.10 2013  |  |  |  |  |  |  |
| 3 | Test Setup:       |   |  |  |  |  |  |  |
|   |                   | Control<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Computer<br>Comp |  |  |  |  |  |  |
|   |                   | Remark: Offset=Cable loss+ attenuation factor.  |  |  |  |  |  |  |
|   | Test Procedure:   | <ul> <li>a) Set analyzer center frequency to DTS channel center frequency.</li> <li>b) Set the span to 1.5 times the DTS bandwidth.</li> <li>c) Set the RBW to 3 kHz &lt; RBW &lt; 100 kHz.</li> <li>d) Set the VBW &gt; [3 × RBW].</li> <li>e) Detector = peak.</li> <li>f) Sweep time = auto couple.</li> <li>g) Trace mode = max hold.</li> <li>h) Allow trace to fully stabilize.</li> <li>i) Use the peak marker function to determine the maximum amplitude lew within the RBW.</li> <li>j) If measured value exceeds requirement, then reduce RBW (but no lest than 3 kHz) and repeat.</li> </ul>  |  |  |  |  |  |  |
|   | Limit:            | ≤8.00dBm/3kHz   |  |  |  |  |  |  |
|   | Test Mode:        | Refer to clause 5.3   |  |  |  |  |  |  |
|   | Test Results:     | Refer to Appendix BLE   |  |  |  |  |  |  |

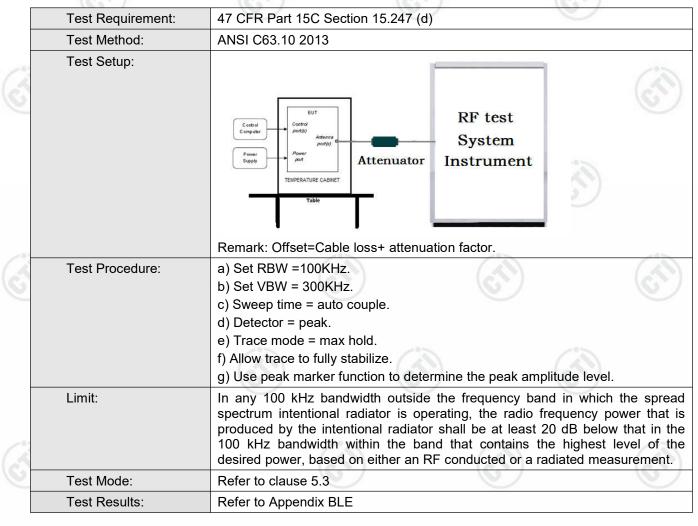






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#### 7.5 Band Edge measurements and Conducted Spurious Emission









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# 7.6 Radiated Spurious Emission & Restricted bands

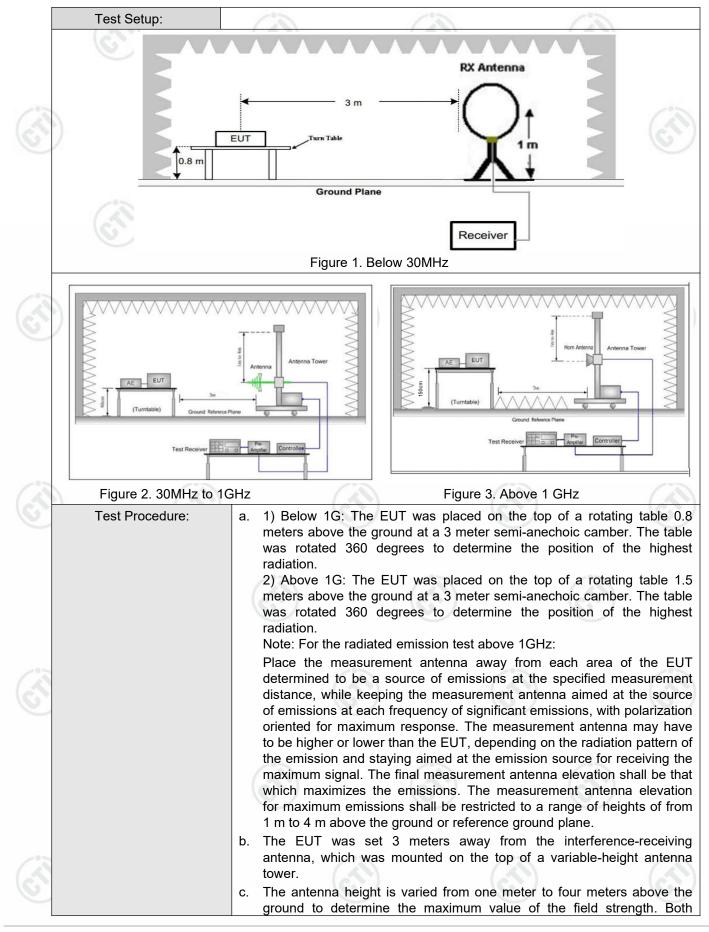
|          | Test Requirement: | 47 CFR Part 15C Secti   | on 1        | 5.209 and 15                   | .205              |            | C         |                           |  |  |
|----------|-------------------|---|-------------|--------------------------------|-------------------|------------|-----------|---------------------------|--|--|
|          | Test Method:      | ANSI C63.10 2013  |             |                                |                   |            |           |                           |  |  |
| -        | Test Site:        | Measurement Distance: 3m (Semi-Anechoic Chamber)  |             |                                |                   |            |           |                           |  |  |
|          | Receiver Setup:   | Frequency   | 2           | Detector                       | RBW               | 1          | VBW       | Remark                    |  |  |
| <u>S</u> |                   | 0.009MHz-0.090MH  | z           | Peak 10kHz                     |                   | z 30kHz    |           | Peak                      |  |  |
|          |                   | 0.009MHz-0.090MH  | z           | Average                        | 10kHz             | z          | 30kHz     | Average                   |  |  |
|          |                   | 0.090MHz-0.110MH  | z           | Quasi-peak                     | 10kHz             | z          | 30kHz     | Quasi-peak                |  |  |
|          |                   | 0.110MHz-0.490MH  | z           | Peak                           | 10kHz             | z          | 30kHz     | Peak                      |  |  |
|          |                   | 0.110MHz-0.490MH  | z           | Average                        | 10kHz             | z          | 30kHz     | Average                   |  |  |
|          |                   | 0.490MHz -30MHz   |             | Quasi-peak                     | 10kHz             | z          | 30kHz     | Quasi-peak                |  |  |
|          |                   | 30MHz-1GHz  |             | Quasi-peak                     | 100 kH            | lz         | 300kHz    | Quasi-peak                |  |  |
| 13       |                   |   | 2           | Peak                           | 1MHz              |            | 3MHz      | Peak                      |  |  |
| 6        |                   | Above 1GHz  |             | Peak                           | 1MHz              | )          | 10kHz     | Average                   |  |  |
|          | Limit:            | Frequency   |             | eld strength<br>crovolt/meter) | Limit<br>(dBuV/m) | Remark     |           | Measuremer<br>distance (m |  |  |
|          |                   | 0.009MHz-0.490MHz   | 2400/F(kHz) |                                | -                 | -212       |           | 300                       |  |  |
|          |                   | 0.490MHz-1.705MHz   | 24          | 4000/F(kHz)                    | -                 |            |           | 30                        |  |  |
|          |                   | 1.705MHz-30MHz  |             | 30                             | -                 | <u> </u>   |           | 30                        |  |  |
|          |                   | 30MHz-88MHz   |             | 100                            | 40.0              | G          | uasi-peak | 3                         |  |  |
|          |                   | 88MHz-216MHz  |             | 150                            | 43.5              | G          | uasi-peak | 3                         |  |  |
|          |                   | 216MHz-960MHz   | 9           | 200                            | 46.0              | G          | uasi-peak | 3                         |  |  |
| <u>e</u> |                   | 960MHz-1GHz   | )           | 500                            | 54.0              | Quasi-peak |           | 3                         |  |  |
|          |                   | Above 1GHz  |             | 500                            | 54.0              |            | Average   | 3                         |  |  |
|          |                   | Note: 15.35(b), Unless otherwise specified, the limit on peal frequency emissions is 20dB above the maximum permitted average er limit applicable to the equipment under test. This peak limit applies to the peak emission level radiated by the device. |             |                                |                   |            |           | erage emission            |  |  |







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# CTI华测检测

Report No. : EED32P81026701

|   | Test Results: | Pass   |
|---|---------------|--|
|   | Test Mode:    | Refer to clause 5.3  |
|   |               | i. Repeat above procedures until all frequencies measured was complete.  |
|   |               | h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.  |
|   |               | g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)   |
|   |               | f. If the emission level of the EUT in peak mode was 10dB lower than the<br>limit specified, then testing could be stopped and the peak values of the<br>EUT would be reported. Otherwise the emissions that did not have 10dB<br>margin would be re-tested one by one using peak, quasi-peak or<br>average method as specified and then reported in a data sheet. |
| 3 |               | e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.  |
|   |               | <ul> <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 reading.</li> </ul>                      |
|   |               | horizontal and vertical polarizations of the antenna are set to make the measurement.  |













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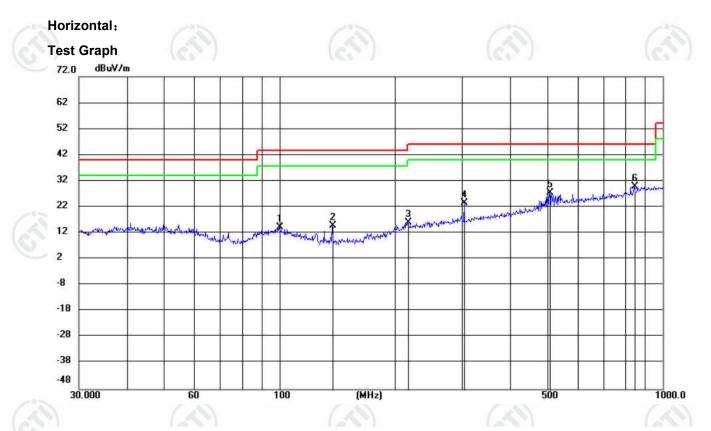


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#### Report No. : EED32P81026701

#### **Radiated Spurious Emission below 1GHz:**

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel for GFSK of BLE 1M was recorded in the report.

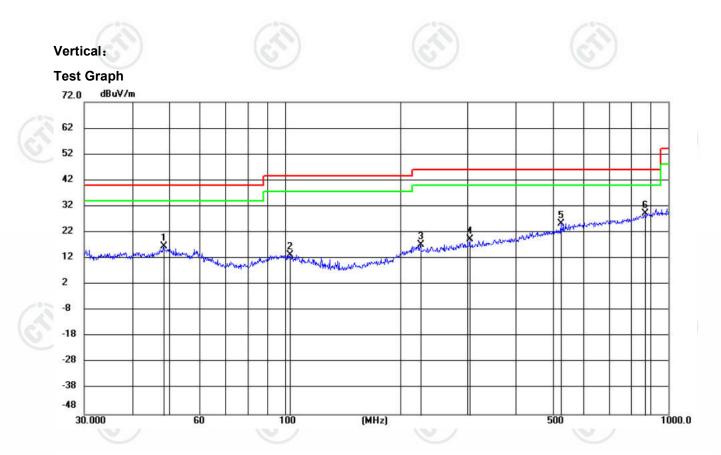


| No. Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Margin |          | Antenna<br>Height | Table<br>Degree |         |
|---------|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
|         | MHz      | dBuV             | dB                | dBuV/m           | dBuV/m | dB     | Detector | cm                | degree          | Comment |
| 1       | 99.9127  | 0.20             | 14.04             | 14.24            | 43.50  | -29.26 | QP       | 199               | 350             |         |
| 2       | 137.4924 | 5.53             | 9.26              | 14.79            | 43.50  | -28.71 | QP       | 100               | 188             |         |
| 3       | 216.0997 | 1.80             | 14.34             | 16.14            | 46.00  | -29.86 | QP       | 199               | 7               |         |
| 4       | 304.1830 | 6.28             | 17.34             | 23.62            | 46.00  | -22.38 | QP       | 100               | 250             |         |
| 5       | 507.3678 | 5.76             | 21.72             | 27.48            | 46.00  | -18.52 | QP       | 199               | 163             |         |
| 6 *     | 842.7204 | 2.62             | 27.26             | 29.88            | 46.00  | -16.12 | QP       | 100               | 157             |         |









|    | 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   |     | 48.3487  | 2.43             | 14.32             | 16.75            | 40.00  | -23.25 | QP       | 100               | 7               |         |
| -  | 2   |     | 103.3152 | -0.25            | 13.58             | 13.33            | 43.50  | -30.17 | QP       | 100               | 7               |         |
| 37 | 3   |     | 226.0598 | 2.44             | 14.68             | 17.12            | 46.00  | -28.88 | QP       | 200               | 188             |         |
| 8  | 4   |     | 304.1830 | 1.93             | 17.34             | 19.27            | 46.00  | -26.73 | QP       | 100               | 7               |         |
| 83 | 5   |     | 525.4746 | 3.33             | 22.17             | 25.50            | 46.00  | -20.50 | QP       | 200               | 42              |         |
| 14 | 6   | *   | 869.8925 | 1.47             | 27.81             | 29.28            | 46.00  | -16.72 | QP       | 200               | 260             |         |









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### Radiated Spurious Emission above 1GHz:

BLE 1M:

|     | Mode | :              |                | BLE GFSK Trai          | nsmitting         |                   | Channel:    |        | 2402 MHz |        |  |
|-----|------|----------------|----------------|------------------------|-------------------|-------------------|-------------|--------|----------|--------|--|
|     | NO   | Freq.<br>[MHz] | Factor<br>[dB] | -<br>Reading<br>[dBμV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin [dB] | Result | Polarity | Remark |  |
|     | 1    | 1396.8397      | 1.38           | 38.64                  | 40.02             | 74.00             | 33.98       | Pass   | Н        | PK     |  |
| Ī   | 2    | 1925.2925      | 4.16           | 37.48                  | 41.64             | 74.00             | 32.36       | Pass   | Н        | PK     |  |
|     | 3    | 3259.0173      | -20.03         | 57.55                  | 37.52             | 74.00             | 36.48       | Pass   | Н        | PK     |  |
| Ī   | 4    | 4804.1203      | -16.23         | 63.36                  | 47.13             | 74.00             | 26.87       | Pass   | Н        | PK     |  |
| ĺ   | 5    | 7205.2804      | -11.83         | 55.85                  | 44.02             | 74.00             | 29.98       | Pass   | Н        | PK     |  |
| 0.5 | 6    | 12542.6362     | -4.52          | 48.80                  | 44.28             | 74.00             | 29.72       | Pass   | Н        | PK     |  |
|     | 7    | 1344.8345      | 1.20           | 39.48                  | 40.68             | 74.00             | 33.32       | Pass   | V        | PK     |  |
| 2   | 8    | 2103.1103      | 4.84           | 38.05                  | 42.89             | 74.00             | 31.11       | Pass   | V        | PK     |  |
|     | 9    | 3425.0283      | -20.15         | 59.24                  | 39.09             | 74.00             | 34.91       | Pass   | V        | PK     |  |
| Ī   | 10   | 4803.1202      | -16.23         | 65.57                  | 49.34             | 74.00             | 24.66       | Pass   | V        | PK     |  |
| Ī   | 11   | 7207.2805      | -11.83         | 56.38                  | 44.55             | 74.00             | 29.45       | Pass   | V        | PK     |  |
| Ī   | 12   | 10837.5225     | -6.28          | 48.97                  | 42.69             | 74.00             | 31.31       | Pass   | V        | PK     |  |

|   | Mode | :              |                | BLE | E GFSK Trar       | nsmitting         |                   | Channel:    |        | 2440 MHz | 2      |  |
|---|------|----------------|----------------|-----|-------------------|-------------------|-------------------|-------------|--------|----------|--------|--|
| 2 | NO   | Freq.<br>[MHz] | Factor<br>[dB] | -   | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin [dB] | Result | Polarity | Remark |  |
|   | 1    | 1187.0187      | 0.81           |     | 38.98             | 39.79             | 74.00             | 34.21       | Pass   | Н        | PK     |  |
|   | 2    | 1847.0847      | 3.63           |     | 37.65             | 41.28             | 74.00             | 32.72       | Pass   | Н        | PK     |  |
|   | 3    | 3448.0299      | -20.11         |     | 55.64             | 35.53             | 74.00             | 38.47       | Pass   | Н        | PK     |  |
| [ | 4    | 4880.1253      | -16.21         |     | 64.54             | 48.33             | 74.00             | 25.67       | Pass   | Н        | PK     |  |
|   | 5    | 7319.288       | -11.65         | ;   | 52.43             | 40.78             | 74.00             | 33.22       | Pass   | Н        | PK     |  |
|   | 6    | 12625.6417     | -4.31          |     | 48.54             | 44.23             | 74.00             | 29.77       | Pass   | Н        | PK     |  |
| ĺ | 7    | 1344.2344      | 1.20           |     | 38.35             | 39.55             | 74.00             | 34.45       | Pass   | V        | PK     |  |
|   | 8    | 1846.0846      | 3.62           |     | 38.07             | 41.69             | 74.00             | 32.31       | Pass   | V        | PK     |  |
| 3 | 9    | 3425.0283      | -20.15         | ;   | 59.50             | 39.35             | 74.00             | 34.65       | Pass   | V        | PK     |  |
|   | 10   | 4869.1246      | -16.21         |     | 66.16             | 49.95             | 74.00             | 24.05       | Pass   | V        | PK     |  |
| 4 | 11   | 7319.288       | -11.65         | ;   | 54.96             | 43.31             | 74.00             | 30.69       | Pass   | V        | PK     |  |
|   | 12   | 12562.6375     | -4.38          |     | 48.66             | 44.28             | 74.00             | 29.72       | Pass   | V        | PK     |  |

















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|    | Mada |                |                | 1.000             |                   |                   |             |        |          |        |
|----|------|----------------|----------------|-------------------|-------------------|-------------------|-------------|--------|----------|--------|
|    | Mode | :              |                | BLE GFSK Tra      | nsmitting         |                   | Channel:    |        | 2480 MH  | z      |
|    | NO   | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin [dB] | Result | Polarity | Remark |
|    | 1    | 1268.4268      | 0.98           | 38.80             | 39.78             | 74.00             | 34.22       | Pass   | н        | PK     |
| 0  | 2    | 1781.4781      | 3.22           | 38.09             | 41.31             | 74.00             | 32.69       | Pass   | Н        | PK     |
|    | 3    | 3346.0231      | -19.98         | 55.37             | 35.39             | 74.00             | 38.61       | Pass   | Н        | PK     |
|    | 4    | 4960.1307      | -15.97         | 64.97             | 49.00             | 74.00             | 25.00       | Pass   | Н        | PK     |
|    | 5    | 7441.2961      | -11.34         | 51.74             | 40.40             | 74.00             | 33.60       | Pass   | Н        | PK     |
|    | 6    | 14409.7607     | 1.08           | 44.59             | 45.67             | 74.00             | 28.33       | Pass   | Н        | PK     |
|    | 7    | 1296.2296      | 1.05           | 39.10             | 40.15             | 74.00             | 33.85       | Pass   | V        | PK     |
|    | 8    | 1794.4794      | 3.26           | 38.72             | 41.98             | 74.00             | 32.02       | Pass   | V        | PK     |
|    | 9    | 3193.0129      | -20.37         | 62.24             | 41.87             | 74.00             | 32.13       | Pass   | V        | PK     |
|    | 10   | 4959.1306      | -15.98         | 65.00             | 49.02             | 74.00             | 24.98       | Pass   | V        | PK     |
| 21 | 11   | 7175.2784      | -11.77         | 53.03             | 41.26             | 74.00             | 32.74       | Pass   | V        | PK     |
|    | 12   | 14380.7587     | 0.90           | 45.03             | 45.93             | 74.00             | 28.07       | Pass   | V        | PK     |
|    | 1    |                |                |                   |                   |                   |             |        |          |        |

#### BLE 2M:

|    | Mode | :              |                | BLE GFSK Tra      | nsmitting         |                   | Channel:    |        | 2402 MHz |        |
|----|------|----------------|----------------|-------------------|-------------------|-------------------|-------------|--------|----------|--------|
|    | NO   | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBμV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 62 | 1    | 1416.0416      | 1.41           | 38.90             | 40.31             | 74.00             | 33.69       | Pass   | Н        | PK     |
|    | 2    | 2104.3104      | 4.84           | 37.89             | 42.73             | 74.00             | 31.27       | Pass   | Н        | PK     |
| 2  | 3    | 3247.0165      | -20.09         | 56.40             | 36.31             | 74.00             | 37.69       | Pass   | Н        | PK     |
|    | 4    | 4804.1203      | -16.23         | 64.42             | 48.19             | 74.00             | 25.81       | Pass   | Н        | PK     |
|    | 5    | 7207.2805      | -11.83         | 55.75             | 43.92             | 74.00             | 30.08       | Pass   | Н        | PK     |
|    | 6    | 11896.5931     | -5.84          | 49.03             | 43.19             | 74.00             | 30.81       | Pass   | Н        | PK     |
|    | 7    | 1398.2398      | 1.39           | 38.65             | 40.04             | 74.00             | 33.96       | Pass   | V        | PK     |
|    | 8    | 1998.0998      | 4.54           | 38.72             | 43.26             | 74.00             | 30.74       | Pass   | V        | PK     |
|    | 9    | 3145.0097      | -20.49         | 64.55             | 44.06             | 74.00             | 29.94       | Pass   | V        | PK     |
|    | 10   | 4803.1202      | -16.23         | 65.49             | 49.26             | 74.00             | 24.74       | Pass   | V        | PK     |
| 3  | 11   | 7207.2805      | -11.83         | 56.79             | 44.96             | 74.00             | 29.04       | Pass   | V        | PK     |
|    | 12   | 14404.7603     | 1.15           | 44.62             | 45.77             | 74.00             | 28.23       | Pass   | V        | PK     |























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|   |      | 10-            |                | 0                 |                   | O *-              |             |        | 0.000    |        |
|---|------|----------------|----------------|-------------------|-------------------|-------------------|-------------|--------|----------|--------|
|   | Mode | :              |                | BLE GFSK Tra      | insmitting        |                   | Channel:    |        | 2440 MHz | Z      |
|   | NO   | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin [dB] | Result | Polarity | Remark |
|   | 1    | 1476.6477      | 1.45           | 39.01             | 40.46             | 74.00             | 33.54       | Pass   | н        | PK     |
|   | 2    | 2070.5071      | 4.78           | 38.72             | 43.50             | 74.00             | 30.50       | Pass   | Н        | PK     |
|   | 3    | 3268.0179      | -19.97         | 7 56.09           | 36.12             | 74.00             | 37.88       | Pass   | Н        | PK     |
|   | 4    | 4880.1253      | -16.21         | 63.44             | 47.23             | 74.00             | 26.77       | Pass   | Н        | PK     |
|   | 5    | 7318.2879      | -11.66         | 53.78             | 42.12             | 74.00             | 31.88       | Pass   | Н        | PK     |
|   | 6    | 12805.6537     | -4.19          | 47.98             | 43.79             | 74.00             | 30.21       | Pass   | Н        | PK     |
|   | 7    | 1276.6277      | 1.00           | 38.58             | 39.58             | 74.00             | 34.42       | Pass   | V        | PK     |
|   | 8    | 1949.695       | 4.29           | 37.44             | 41.73             | 74.00             | 32.27       | Pass   | V        | PK     |
|   | 9    | 3195.013       | -20.36         | 58.98             | 38.62             | 74.00             | 35.38       | Pass   | V        | PK     |
|   | 10   | 4876.1251      | -16.21         | 65.96             | 49.75             | 74.00             | 24.25       | Pass   | V        | PK     |
| 3 | 11   | 7318.2879      | -11.66         | 53.67             | 42.01             | 74.00             | 31.99       | Pass   | V        | PK     |
|   | 12   | 12348.6232     | -5.22          | 49.69             | 44.47             | 74.00             | 29.53       | Pass   | V        | PK     |
|   | 1    |                |                |                   |                   |                   |             |        |          |        |

| Mode | e:             |                | BLE GFSK Tra      | nsmitting         |                   | Channel:    |        | 2480 MHz | 2      |
|------|----------------|----------------|-------------------|-------------------|-------------------|-------------|--------|----------|--------|
| NO   | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1    | 1332.8333      | 1.17           | 38.29             | 39.46             | 74.00             | 34.54       | Pass   | Н        | PK     |
| 2    | 1765.6766      | 3.16           | 38.22             | 41.38             | 74.00             | 32.62       | Pass   | Н        | PK     |
| 3    | 3397.0265      | -20.19         | 55.77             | 35.58             | 74.00             | 38.42       | Pass   | Н        | PK     |
| 4    | 4959.1306      | -15.98         | 63.88             | 47.90             | 74.00             | 26.10       | Pass   | Н        | PK     |
| 5    | 7754.317       | -11.22         | 51.12             | 39.90             | 74.00             | 34.10       | Pass   | Н        | PK     |
| 6    | 11876.5918     | -5.90          | 48.84             | 42.94             | 74.00             | 31.06       | Pass   | Н        | PK     |
| 7    | 1190.8191      | 0.80           | 39.50             | 40.30             | 74.00             | 33.70       | Pass   | V        | PK     |
| 8    | 1739.674       | 3.07           | 38.25             | 41.32             | 74.00             | 32.68       | Pass   | V        | PK     |
| 9    | 3286.0191      | -19.88         | 55.66             | 35.78             | 74.00             | 38.22       | Pass   | V        | PK     |
| 10   | 4960.1307      | -15.97         | 65.45             | 49.48             | 74.00             | 24.52       | Pass   | V        | PK     |
| 11   | 7439.296       | -11.34         | 50.92             | 39.58             | 74.00             | 34.42       | Pass   | V        | PK     |
| 12   | 12547.6365     | -4.49          | 48.16             | 43.67             | 74.00             | 30.33       | 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

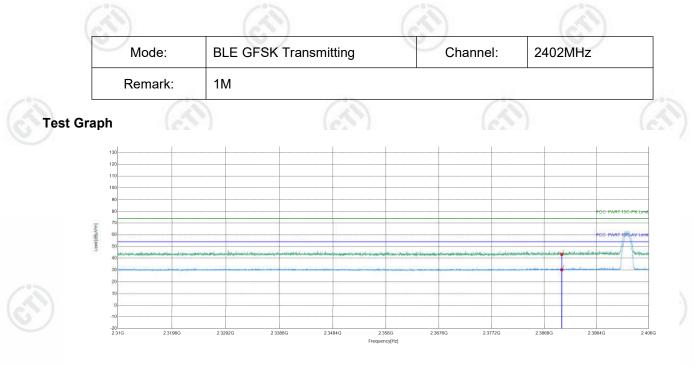
2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



| Test plot       |                                   |                        |                             |  |                               |                        |                                  |                |
|-----------------|-----------------------------------|------------------------|-----------------------------|--|-------------------------------|------------------------|----------------------------------|----------------|
|                 | as follows:                       |                        |                             |  |                               |                        |                                  |                |
|                 |                                   |                        |                             |  |                               |                        |                                  |                |
| 2               | Mode:                             | BL                     | _E GFSK Tra                 | ansmitting                             |                               | Channel:               | 240                              | 2MHz           |
|                 | Remark:                           | 1N                     | Λ                           |  |                               |                        |                                  |                |
| Test Grap       | bh                                |                        |                             |  |                               |                        |                                  |                |
|                 | 130                               |                        |                             |  |                               |                        |                                  |                |
|                 | 110<br>100<br>90                  |                        |                             |  |                               |                        |                                  |                |
|                 | 80<br>70<br>60                    |                        |                             |  |                               |                        |                                  | FCC-PART 15C-P |
| laver           | 50<br>40<br>30                    |                        | lanana baarana ana baaraa   | ************************************** |                               | and in the property of | والمادر فأقانون ومعرفه والمسروات |                |
|                 | 20                                |                        |                             |  |                               |                        |                                  |                |
|                 | -10<br>-20<br>2.31G 2.3196        | 6G 2.325               | 92G 2.3388G                 | 2.3484G                                | 2.358G 2.3676<br>requency(Hz) | 3G 2.3772G             | 2.3868G                          | 2.3964G        |
|                 | PK Limit                          | - AV Limit Hori        | rizontal PK — Horizontal AV |  |                               |                        |                                  |                |
|                 | * PK Detector *                   | AV Detector            |                             |  |                               |                        |                                  |                |
| 0               |                                   | $\langle O \rangle$    |                             |  | 1                             | 1.2                    |                                  |                |
| Suspector<br>NO | ed List<br>Freq.                  | Factor<br>[dB]         | Reading<br>[dBµV]           | Level<br>[dBµV/m]                      | Limit<br>[dBµV/m]             | Margin<br>[dB]         | Result                           | Polarity       |
| NO<br>1         | ed List<br>Freq.<br>[MHz]<br>2390 | Factor<br>[dB]<br>5.77 | [dBµV]<br>37.09             | [dBµV/m]<br>42.86                      | [dBµV/m]<br>74.00             | [dB]<br>31.14          | PASS                             | Horizontal     |
| NO              | ed List<br>Freq.<br>[MHz]         | Factor<br>[dB]         | [dBµV]                      | [dBµV/m]                               | [dBµV/m]                      | [dB]                   |                                  |                |
| NO<br>1         | ed List<br>Freq.<br>[MHz]<br>2390 | Factor<br>[dB]<br>5.77 | [dBµV]<br>37.09             | [dBµV/m]<br>42.86                      | [dBµV/m]<br>74.00             | [dB]<br>31.14          | PASS                             | Horizontal     |
| NO<br>1         | ed List<br>Freq.<br>[MHz]<br>2390 | Factor<br>[dB]<br>5.77 | [dBµV]<br>37.09             | [dBµV/m]<br>42.86                      | [dBµV/m]<br>74.00             | [dB]<br>31.14          | PASS                             | Horizontal     |
| NO<br>1         | ed List<br>Freq.<br>[MHz]<br>2390 | Factor<br>[dB]<br>5.77 | [dBµV]<br>37.09             | [dBµV/m]<br>42.86                      | [dBµV/m]<br>74.00             | [dB]<br>31.14          | PASS                             | Horizontal     |

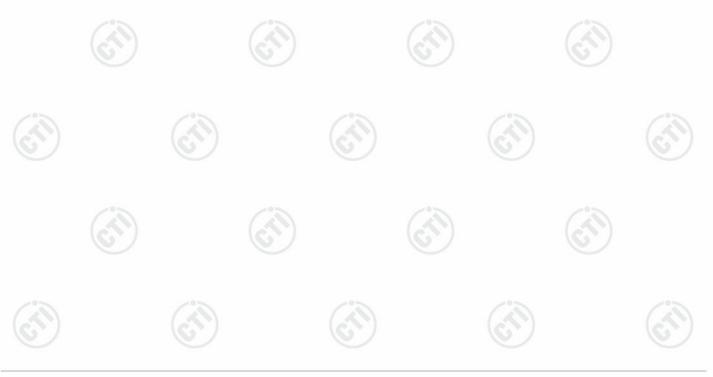


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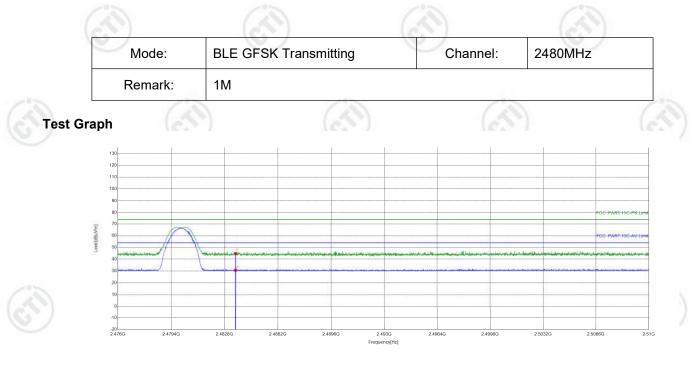
#### PK Limit — AV Limit — Vertical PK — Vertical A PK Detector AV Detector

|                 | 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 |
| $(\mathcal{A})$ | 1        | 2390           | 5.77           | 37.48             | 43.25             | 74.00             | 30.75          | PASS   | Vertical | PK     |
| U               | 2        | 2390           | 5.77           | 24.51             | 30.28             | 54.00             | 23.72          | PASS   | Vertical | AV     |



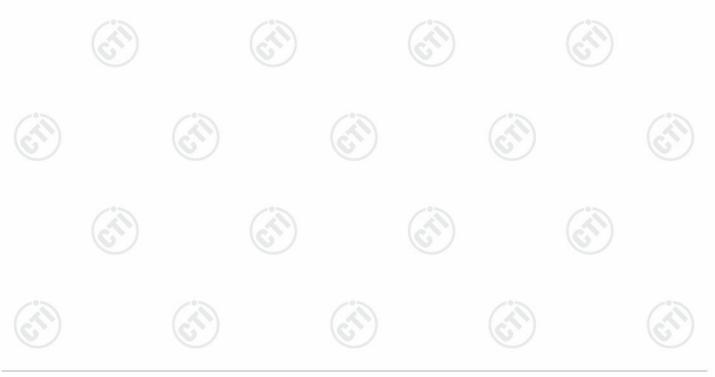


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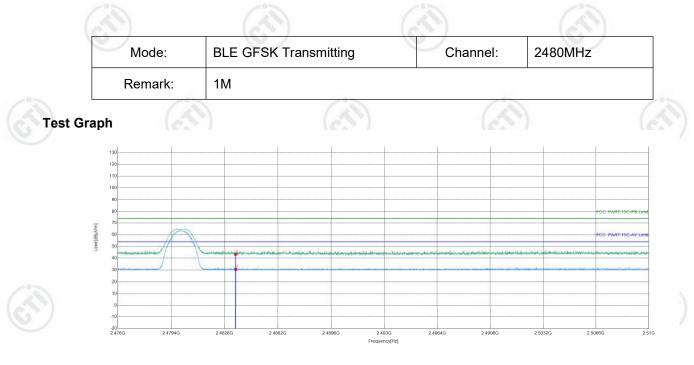
#### PK Limit AV Limit Horizontal PK Horizontal AV AV Detector

|   | 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           | 38.37             | 44.94             | 74.00             | 29.06          | PASS   | Horizontal | PK     |
| ٢ | 2        | 2483.5         | 6.57           | 24.02             | 30.59             | 54.00             | 23.41          | PASS   | Horizontal | AV     |



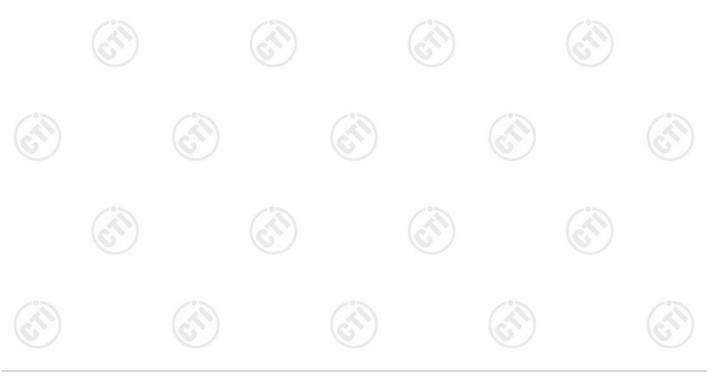


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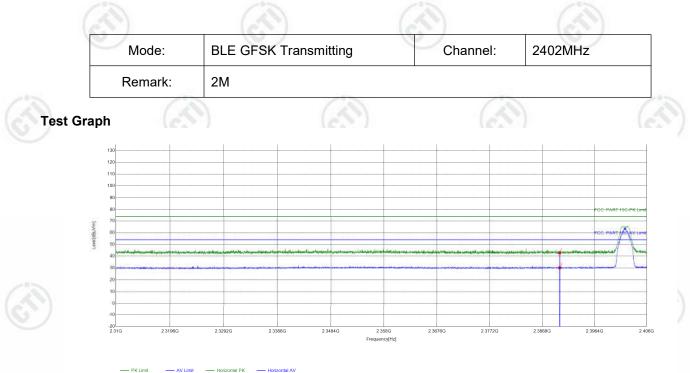
#### PK Limit AV Limit Vertical PK Vertical AV AV Detector

|   | 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           | 36.76             | 43.33             | 74.00             | 30.67          | PASS   | Vertical | PK     |
| U | 2        | 2483.5         | 6.57           | 24.02             | 30.59             | 54.00             | 23.41          | PASS   | Vertical | AV     |





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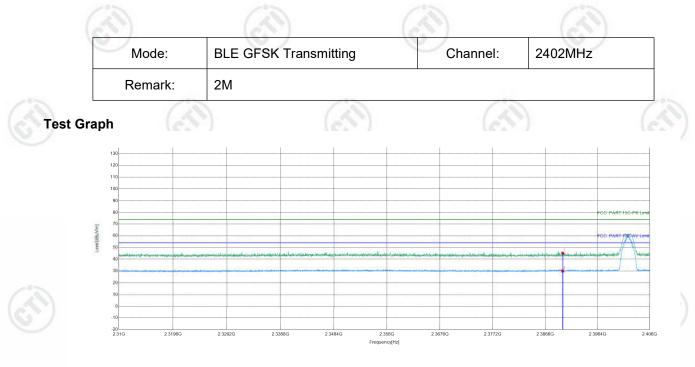
PK Limit — AV Limit — Horizontal PK — Horizonta
 PK Detector
 AV Detector

|                 | 100      | 3 J            |                | 16.7 /            |                   | 16.7              | 1.             |        | (C. 7)     |        |
|-----------------|----------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|
|                 | 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 |
| $(\mathcal{A})$ | 1        | 2390           | 5.77           | 37.14             | 42.91             | 74.00             | 31.09          | PASS   | Horizontal | PK     |
| C               | 2        | 2390           | 5.77           | 24.49             | 30.26             | 54.00             | 23.74          | PASS   | Horizontal | AV     |





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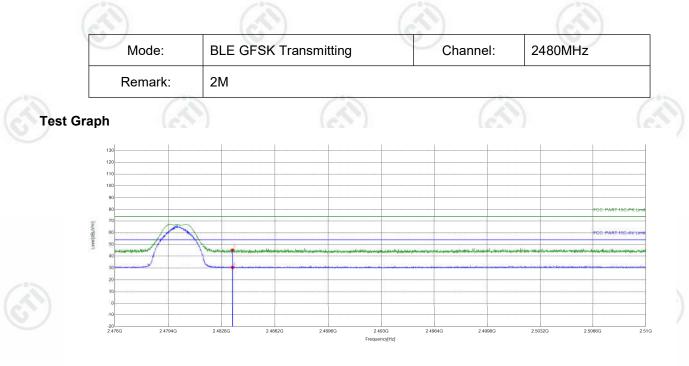
#### 

|     | Suspecte | d List         |                |                   |                   |                   |                |        |          |        |
|-----|----------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| 207 | 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           | 39.41             | 45.18             | 74.00             | 28.82          | PASS   | Vertical | PK     |
| C   | 2        | 2390           | 5.77           | 24.23             | 30.00             | 54.00             | 24.00          | PASS   | Vertical | AV     |





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#### PK Limit AV Limit Horizontal PK Horizontal AV AV Detector

|       | Suspecte | d List         |                |                   |                   |                   |                |        |            |        |
|-------|----------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|
| - 0 - | 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           | 38.74             | 45.31             | 74.00             | 28.69          | PASS   | Horizontal | PK     |
| 2     | 2        | 2483.5         | 6.57           | 23.94             | 30.51             | 54.00             | 23.49          | PASS   | Horizontal | AV     |





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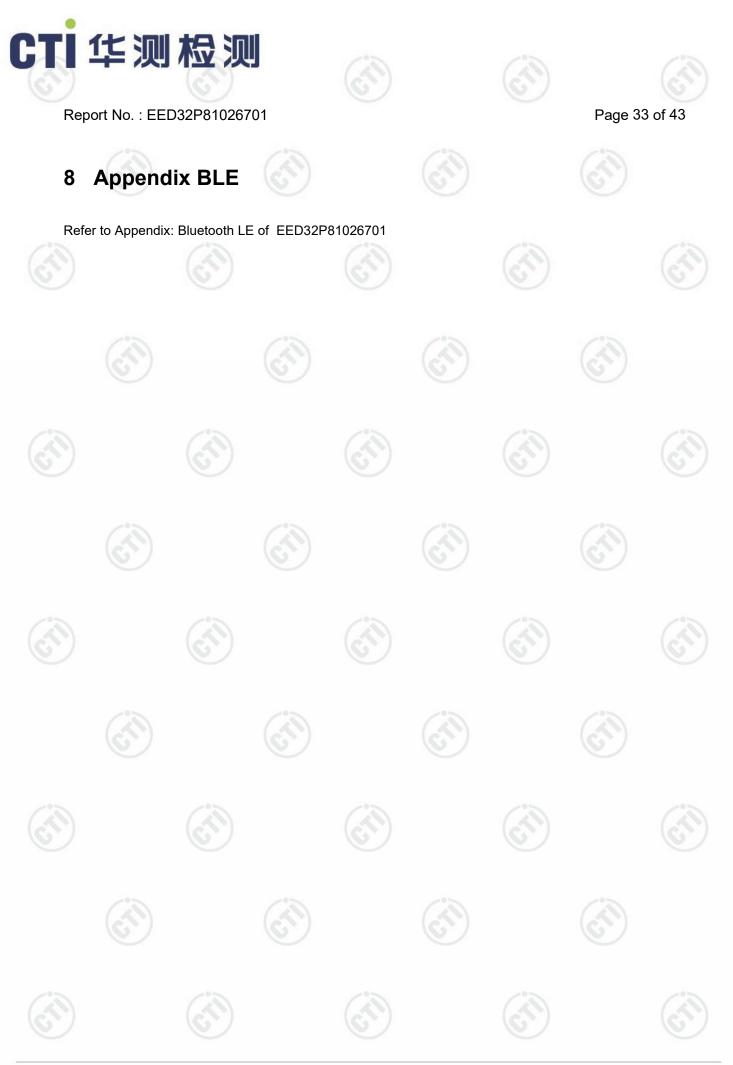
|                 | Ouspecie |                |                |                   |                   |                   |                |        |          |        |
|-----------------|----------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
|                 | NO       | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBµV] | Level<br>[dBµV/m] | Limit<br>[dBµV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| $(\mathcal{A})$ | 1        | 2483.5         | 6.57           | 37.15             | 43.72             | 74.00             | 30.28          | PASS   | Vertical | PK     |
| C               | 2        | 2483.5         | 6.57           | 24.03             | 30.60             | 54.00             | 23.40          | 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



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