

# TEST REPORT

Reference No..... : WTX25X06158982W004  
FCC ID ..... : 2AKIT-HMG03  
Applicant ..... : Lumi United Technology Co., Ltd  
Address ..... : B1, Chongwen Park, Nanshan iPark, Liuxian Avenue, Taoyuan Residential  
District, Nanshan District, Shenzhen, China  
Manufacturer ..... : The same as Applicant  
Address ..... : The same as Applicant  
Product Name ..... : Hub M200  
Model No..... : HM-G03D  
Standards ..... : FCC Part 15.247  
Date of Receipt sample .... : 2025-06-18  
Date of Test..... : 2025-06-18 to 2025-07-25  
Date of Issue ..... : 2025-07-25  
Test Report Form No. .... : WTX\_Part 15\_247W  
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

**Prepared By:**

**Waltek Testing Group (Shenzhen) Co., Ltd.**

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,

Block 70 Bao'an District, Shenzhen, Guangdong, China

Tel.: +86-755-33663308 Fax.: +86-755-33663309 Email: sem@waltek.com.cn

Tested by:



Dashan Chen/Project Engineer

Approved by:



Jason Su/Manager

## **TABLE OF CONTENTS**

|                                                              |           |
|--------------------------------------------------------------|-----------|
| <b>1. GENERAL INFORMATION .....</b>                          | <b>4</b>  |
| 1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) ..... | 4         |
| 1.2 TEST STANDARDS.....                                      | 5         |
| 1.3 TEST METHODOLOGY .....                                   | 5         |
| 1.4 TEST FACILITY .....                                      | 5         |
| 1.5 EUT SETUP AND TEST MODE .....                            | 6         |
| 1.6 MEASUREMENT UNCERTAINTY .....                            | 7         |
| 1.7 TEST EQUIPMENT LIST AND DETAILS .....                    | 8         |
| <b>2. SUMMARY OF TEST RESULTS.....</b>                       | <b>12</b> |
| <b>3. ANTENNA REQUIREMENT.....</b>                           | <b>13</b> |
| 3.1 STANDARD APPLICABLE .....                                | 13        |
| 3.2 EVALUATION INFORMATION .....                             | 13        |
| <b>4. POWER SPECTRAL DENSITY .....</b>                       | <b>14</b> |
| 4.1 STANDARD APPLICABLE .....                                | 14        |
| 4.2 TEST SETUP BLOCK DIAGRAM .....                           | 14        |
| 4.3 TEST PROCEDURE .....                                     | 14        |
| 5.4 SUMMARY OF TEST RESULTS/PLOTS.....                       | 14        |
| <b>5. 6DB BANDWIDTH .....</b>                                | <b>15</b> |
| 5.1 STANDARD APPLICABLE .....                                | 15        |
| 5.2 TEST SETUP BLOCK DIAGRAM .....                           | 15        |
| 5.3 TEST PROCEDURE .....                                     | 15        |
| 5.4 SUMMARY OF TEST RESULTS/PLOTS.....                       | 15        |
| <b>6. RF OUTPUT POWER.....</b>                               | <b>16</b> |
| 6.1 STANDARD APPLICABLE .....                                | 16        |
| 6.2 TEST SETUP BLOCK DIAGRAM .....                           | 16        |
| 6.3 TEST PROCEDURE .....                                     | 16        |
| 6.4 SUMMARY OF TEST RESULTS/PLOTS.....                       | 16        |
| <b>7. FIELD STRENGTH OF SPURIOUS EMISSIONS.....</b>          | <b>17</b> |
| 7.1 STANDARD APPLICABLE .....                                | 17        |
| 7.2 TEST PROCEDURE .....                                     | 17        |
| 7.3 CORRECTED AMPLITUDE & MARGIN CALCULATION.....            | 19        |
| 7.4 SUMMARY OF TEST RESULTS/PLOTS.....                       | 19        |
| <b>8. OUT OF BAND EMISSIONS .....</b>                        | <b>23</b> |
| 8.1 STANDARD APPLICABLE .....                                | 23        |
| 8.2 TEST PROCEDURE .....                                     | 23        |
| 8.3 SUMMARY OF TEST RESULTS/PLOTS.....                       | 24        |
| <b>9. CONDUCTED EMISSIONS .....</b>                          | <b>26</b> |
| 9.1 TEST PROCEDURE .....                                     | 26        |
| 9.2 BASIC TEST SETUP BLOCK DIAGRAM .....                     | 26        |
| 9.3 TEST RECEIVER SETUP .....                                | 26        |
| 9.4 SUMMARY OF TEST RESULTS/PLOTS.....                       | 26        |
| <b>APPENDIX SUMMARY .....</b>                                | <b>29</b> |
| <b>APPENDIX A.....</b>                                       | <b>30</b> |
| <b>APPENDIX B.....</b>                                       | <b>32</b> |
| <b>APPENDIX C.....</b>                                       | <b>34</b> |
| <b>APPENDIX D.....</b>                                       | <b>36</b> |
| <b>APPENDIX PHOTOGRAPHS.....</b>                             | <b>38</b> |

Report version

| Version No. | Date of issue | Description |
|-------------|---------------|-------------|
| Rev.00      | 2025-07-25    | Original    |
| /           | /             | /           |

## 1. GENERAL INFORMATION

---

### 1.1 Product Description for Equipment Under Test (EUT)

| General Description of EUT                                                                                                                                                                                                                                                                 |                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Product Name:                                                                                                                                                                                                                                                                              | Hub M200                 |
| Trade Name:                                                                                                                                                                                                                                                                                | Aqara                    |
| Model No.:                                                                                                                                                                                                                                                                                 | HM-G03D                  |
| Adding Model(s):                                                                                                                                                                                                                                                                           | HM-G03E                  |
| Rated Voltage:                                                                                                                                                                                                                                                                             | Type-C DC5V<br>POE DC48V |
| <i>Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model HM-G03D, but the circuit and the electronic construction do not change, declared by the manufacturer.</i> |                          |

| Technical Characteristics of EUT (Zigbee)                                                        |                     |
|--------------------------------------------------------------------------------------------------|---------------------|
| Frequency Range:                                                                                 | 2405-2480MHz        |
| RF Output Power:                                                                                 | 9.29dBm (Conducted) |
| Type of Modulation:                                                                              | QPSK                |
| Quantity of Channels:                                                                            | 16                  |
| Channel Separation:                                                                              | 5MHz                |
| Type of Antenna:                                                                                 | Internal Antenna    |
| Antenna Gain:                                                                                    | 0dBi                |
| <i>Note The Antenna Gain is provided by the customer and can affect the validity of results.</i> |                     |

## 1.2 Test Standards

The tests were performed according to following standards:

**FCC Rules Part 15.247**: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

**558074 D01 DTS Meas Guidance v05r02**: Guidance for performing Compliance Measurement on Digital Transmission Systems operating under section 15.247.

**ANSI C63.10-2020**: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, KDB 558074 D01 DTS Meas Guidance v05r02.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

## 1.4 Test Facility

### Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

### FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

### Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

## 1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

| Test Mode List |             |         |
|----------------|-------------|---------|
| Test Mode      | Description | Remark  |
| TM1            | Low         | 2405MHz |
| TM2            | Middle      | 2440MHz |
| TM3            | High        | 2480MHz |
|                |             |         |

| Test Conditions    |           |
|--------------------|-----------|
| Temperature:       | 22~25 °C  |
| Relative Humidity: | 45~75 %   |
| ATM Pressure:      | 1019 mbar |

| EUT Cable List and Details |            |                     |                        |
|----------------------------|------------|---------------------|------------------------|
| Cable Description          | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| USB Cable                  | 1.0        | Unshielded          | Without Ferrite        |

| Special Cable List and Details |            |                     |                        |
|--------------------------------|------------|---------------------|------------------------|
| Cable Description              | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| Network Cable                  | 1.0        | Unshielded          | Without Ferrite        |

| Auxiliary Equipment List and Details |              |           |               |
|--------------------------------------|--------------|-----------|---------------|
| Description                          | Manufacturer | Model     | Serial Number |
| Adapter                              | Xiaomi       | MDY-08-EH | /             |
| Wireless Router                      | MERCURY      | MS08CP    | /             |

**1.6 Measurement Uncertainty**

| Measurement uncertainty        |            |                    |
|--------------------------------|------------|--------------------|
| Parameter                      | Conditions | Uncertainty        |
| RF Output Power                | Conducted  | 0.57dB             |
| Occupied Bandwidth             | Conducted  | 0.015MHz           |
| Power Spectral Density         | Conducted  | 1.8dB              |
| Conducted Spurious Emission    | Conducted  | 2.17dB             |
| Conducted Emissions            | Conducted  | 9-150kHz, 3.74dB   |
|                                |            | 0.15-30MHz, 3.34dB |
| Transmitter Spurious Emissions | Radiated   | 30-200MHz, 4.52dB  |
|                                |            | 0.2-1GHz 5.56dB    |
|                                |            | 1-6GHz, 3.84dB     |
|                                |            | 6-18GHz, 3.92dB    |

**1.7 Test Equipment List and Details**

| Fixed asset Number                             | Description             | Manufacturer    | Model     | Serial No.     | Cal Date   | Due. Date  |
|------------------------------------------------|-------------------------|-----------------|-----------|----------------|------------|------------|
| WTXE1041A<br>1001                              | Communication Tester    | Rohde & Schwarz | CMW500    | 148650         | 2025-02-23 | 2026-02-22 |
| WTXE1022A<br>1002                              | GSM Tester              | Rohde & Schwarz | CMU200    | 114403         | 2025-02-23 | 2026-02-22 |
| WTXE1005A<br>1005                              | Spectrum Analyzer       | Agilent         | N9020A    | US471401<br>02 | 2025-02-23 | 2026-02-22 |
| WTXE1084A<br>1001                              | Spectrum Analyzer       | Agilent         | N9020A    | MY543205<br>48 | 2025-02-23 | 2026-02-22 |
| WTXE1044A<br>1001                              | Signal Generator        | Agilent         | 83752A    | 3610A014<br>53 | 2025-02-23 | 2026-02-22 |
| WTXE1045A<br>1001                              | Vector Signal Generator | Agilent         | N5182A    | MY470702<br>02 | 2025-02-23 | 2026-02-22 |
| WTXE1018A<br>1001                              | Power Divider           | Weinschel       | 1506A     | PM204          | 2025-02-23 | 2026-02-22 |
| WTXE1103A<br>1003                              | Attenuator              | Pasternack      | PE4007-4  | /              | 2025-02-23 | 2026-02-22 |
| WTXE1003A<br>1-005                             | Coaxial Cable           | /               | 0M4RFC    | /              | 2025-02-23 | 2026-02-22 |
| <input type="checkbox"/> Chamber A: Below 1GHz |                         |                 |           |                |            |            |
| WTXE1005A<br>1003                              | Spectrum Analyzer       | Rohde & Schwarz | FSP30     | 836079/03<br>5 | 2025-02-23 | 2026-02-22 |
| WTXE1001A<br>1001                              | EMI Test Receiver       | Rohde & Schwarz | ESPI      | 101611         | 2025-02-23 | 2026-02-22 |
| WTXE1007A<br>1001                              | Amplifier               | HP              | 8447F     | 2805A034<br>75 | 2025-02-23 | 2026-02-22 |
| WTXE1010A<br>1007                              | Loop Antenna            | Schwarz beck    | FMZB 1516 | 9773           | 2024-02-26 | 2026-02-25 |
| WTXE1010A<br>1006                              | Broadband Antenna       | Schwarz beck    | VULB9163  | 9163-333       | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1032-1                            | Coaxial Cable           | /               | RC_6G-N-M | /              | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1032-2                            | Coaxial Cable           | /               | RC_6G-N-M | /              | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1032-3                            | Coaxial Cable           | /               | RC_6G-N-M | /              | 2025-02-23 | 2026-02-22 |
| <input type="checkbox"/> Chamber A: Above 1GHz |                         |                 |           |                |            |            |
| WTXE1005A<br>1003                              | Spectrum Analyzer       | Rohde & Schwarz | FSP30     | 836079/03<br>5 | 2025-02-23 | 2026-02-22 |

|                                                          |                          |                 |              |            |            |            |
|----------------------------------------------------------|--------------------------|-----------------|--------------|------------|------------|------------|
| WTXE1001A<br>1001                                        | EMI Test Receiver        | Rohde & Schwarz | ESPI         | 101611     | 2025-02-23 | 2026-02-22 |
| WTXE1065A<br>1001                                        | Amplifier                | C&D             | PAP-1G18     | 2002       | 2025-02-23 | 2026-02-22 |
| WTXE1010A<br>1005                                        | Horn Antenna             | ETS             | 3117         | 00086197   | 2025-02-23 | 2026-02-22 |
| WTXE1010A<br>1010                                        | DRG Horn Antenna         | A.H. SYSTEMS    | SAS-574      | 571        | 2024-03-17 | 2026-03-16 |
| WTXE1003A<br>1001                                        | Pre-amplifier            | Schwarzbeck     | BBV 9721     | 9721-031   | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1033-1                                      | Coaxial Cable            | /               | C16-07-07    | /          | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1033-2                                      | Coaxial Cable            | /               | C16-07-07    | /          | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1033-3                                      | Coaxial Cable            | /               | C16-07-07    | /          | 2025-02-23 | 2026-02-22 |
| <input type="checkbox"/> Chamber B:Below 1GHz            |                          |                 |              |            |            |            |
| WTXE1010A<br>1006                                        | Trilog Broadband Antenna | Schwarz beck    | VULB9163(B)  | 9163-635   | 2024-03-17 | 2027-03-16 |
| WTXE1038A<br>1001                                        | Amplifier                | Agilent         | 8447D        | 2944A10457 | 2025-02-23 | 2026-02-22 |
| WTXE1001A<br>1002                                        | EMI Test Receiver        | Rohde & Schwarz | ESPI         | 101391     | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1031-1                                      | Coaxial Cable            | /               | 1.5MRFC-LWB3 | /          | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1031-2                                      | Coaxial Cable            | /               | RG 316       | /          | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1031-3                                      | Coaxial Cable            | /               | RG 316       | /          | 2025-02-23 | 2026-02-22 |
| <input checked="" type="checkbox"/> Chamber C:Below 1GHz |                          |                 |              |            |            |            |
| WTXE1093A<br>1001                                        | EMI Test Receiver        | Rohde & Schwarz | ESIB 26      | 100401     | 2025-02-23 | 2026-02-22 |
| WTXE1010A<br>1013-1                                      | Trilog Broadband Antenna | Schwarz beck    | VULB 9168    | 1194       | 2024-04-18 | 2027-04-17 |
| WTXE1007A<br>1002                                        | Amplifier                | HP              | 8447F        | 2944A03869 | 2025-02-23 | 2026-02-22 |
| WTXE1010A<br>1007                                        | Loop Antenna             | Schwarz beck    | FMZB 1516    | 9773       | 2024-02-26 | 2026-02-25 |
| WTXE1104A<br>1034-1                                      | Coaxial Cable            | /               | RC_6G-N-M    | /          | 2025-02-23 | 2026-02-22 |

|                                                           |                   |                 |             |                 |            |            |
|-----------------------------------------------------------|-------------------|-----------------|-------------|-----------------|------------|------------|
| WTXE1104A<br>1034-2                                       | Coaxial Cable     | /               | RC_6G-N-M   | /               | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1034-3                                       | Coaxial Cable     | /               | RC_6G-N-M   | /               | 2025-02-23 | 2026-02-22 |
| <input checked="" type="checkbox"/> Chamber C: Above 1GHz |                   |                 |             |                 |            |            |
| WTXE1093A<br>1001                                         | EMI Test Receiver | Rohde & Schwarz | ESIB 26     | 100401          | 2025-02-23 | 2026-02-22 |
| WTXE1103A<br>1005                                         | Horn Antenna      | POAM            | RTF-118A    | 1820            | 2025-06-13 | 2027-06-12 |
| WTXE1103A<br>1006                                         | Amplifier         | Tonscend        | TAP01018050 | AP22E806<br>235 | 2025-02-23 | 2026-02-22 |
| WTXE1010A<br>1010                                         | DRG Horn Antenna  | A.H. SYSTEMS    | SAS-574     | 571             | 2024-03-17 | 2026-03-16 |
| WTXE1003A<br>1001                                         | Pre-amplifier     | Schwarzbeck     | BBV 9721    | 9721-031        | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1035-1                                       | Coaxial Cable     | /               | RC-18G-N-M  | /               | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1035-2                                       | Coaxial Cable     | /               | RC-18G-N-M  | /               | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1035-3                                       | Coaxial Cable     | /               | RC-18G-N-M  | /               | 2025-02-23 | 2026-02-22 |
| <input type="checkbox"/> Conducted Room 1#                |                   |                 |             |                 |            |            |
| WTXE1104A<br>1029                                         | EMI Test Receiver | Rohde & Schwarz | ESCI        | 100525          | 2024-12-08 | 2025-12-07 |
| WTXE1002A<br>1001                                         | Pulse Limiter     | Rohde & Schwarz | ESH3-Z2     | 100911          | 2025-02-23 | 2026-02-22 |
| WTXE1003A<br>1001                                         | AC LISN           | Schwarz beck    | NSLK8126    | 8126-279        | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1036                                         | Coaxial Cable     | /               | RG 316      | /               | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1038                                         | Coaxial Cable     | /               | 6MRFC-DP    | /               | 2025-02-23 | 2026-02-22 |
| <input checked="" type="checkbox"/> Conducted Room 2#     |                   |                 |             |                 |            |            |
| WTXE1001A<br>1004                                         | EMI Test Receiver | Rohde & Schwarz | ESPI        | 101259          | 2025-02-23 | 2026-02-22 |
| WTXE1003A<br>1003                                         | LISN              | Rohde & Schwarz | ENV 216     | 100097          | 2025-02-23 | 2026-02-22 |
| WTXE1104A<br>1037                                         | Coaxial Cable     | /               | RG 316      | /               | 2025-02-23 | 2026-02-22 |

| Software List                                        |              |        |                        |
|------------------------------------------------------|--------------|--------|------------------------|
| Description                                          | Manufacturer | Model  | Version                |
| EMI Test Software<br>(Radiated Emission A)           | Farad        | EZ-EMC | RA-03A1<br>(1.1.4.2)   |
| EMI Test Software<br>(Radiated Emission B)           | Farad        | EZ-EMC | RA-03A1<br>(1.1.4.2)   |
| EMI Test Software<br>(Radiated Emission C)           | Farad        | EZ-EMC | RA-03A1-2<br>(1.1.4.2) |
| EMI Test Software<br>(Conducted Emission Room<br>1#) | Farad        | EZ-EMC | 3A1*CE-RE<br>1.1.4.3   |
| EMI Test Software<br>(Conducted Emission Room<br>2#) | Farad        | EZ-EMC | 3A1*CE-RE<br>1.1.4.3   |

\*Remark: indicates software version used in the compliance certification testing.

## 2. SUMMARY OF TEST RESULTS

---

| FCC Rules                 | Description of Test Item          | Result    |
|---------------------------|-----------------------------------|-----------|
| §15.203; §15.247(b)(4)(i) | Antenna Requirement               | Compliant |
| §15.205                   | Restricted Band of Operation      | Compliant |
| §15.207(a)                | Conducted Emission                | Compliant |
| §15.247(e)                | Power Spectral Density            | Compliant |
| §15.247(a)(2)             | 6 dB Bandwidth                    | Compliant |
| §15.247(b)(3)             | RF Output Power                   | Compliant |
| §15.209(a)                | Radiated Emission                 | Compliant |
| §15.247(d)                | Band Edge (Out of Band Emissions) | Compliant |

N/A: Not applicable.

### **3. Antenna Requirement**

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#### **3.1 Standard Applicable**

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### **3.2 Evaluation Information**

This product has a PCB antenna, fulfill the requirement of this section.

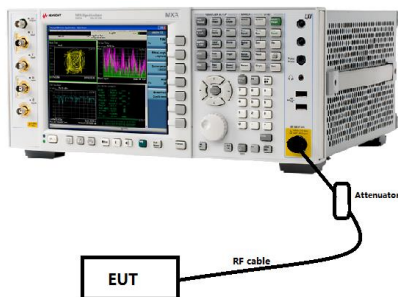
## 4. Power Spectral Density

---

### 4.1 Standard Applicable

According to 15.247(a)(1)(iii), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

### 4.2 Test Setup Block Diagram



### 4.3 Test Procedure

According to the KDB 558074, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to:  $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$ .
- Set VBW  $\geq 3 \times \text{RBW}$ .
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep  $\geq 2 \times \text{span}/\text{RBW}$ .
- Sweep time = auto couple.
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- If measured value exceeds limit, reduce RBW (no less than 3kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

### 5.4 Summary of Test Results/Plots

Please refer to Appendix A

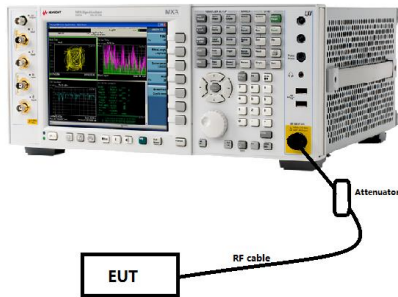
## 5. 6dB Bandwidth

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### 5.1 Standard Applicable

According to 15.247(a)(2), systems using digital modulation techniques may operate in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands. The minimum 6dB bandwidth shall be at least 500kHz.

### 5.2 Test Setup Block Diagram



### 5.3 Test Procedure

- a) Set RBW = 100kHz.
- b) Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

### 5.4 Summary of Test Results/Plots

Please refer to Appendix B

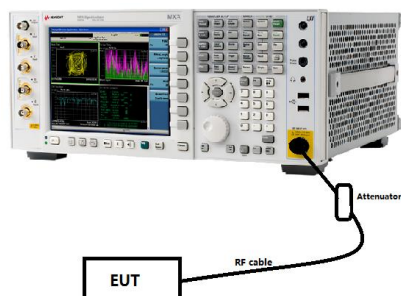
## 6. RF Output Power

---

### 6.1 Standard Applicable

According to 15.247(b)(3), for systems using digital modulation in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands: 1 Watt.

### 6.2 Test Setup Block Diagram



### 6.3 Test Procedure

- Set the RBW  $\geq$  DTS bandwidth.
- Set VBW  $\geq$  3RBW.
- Set span  $\geq$  3RBW.
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

### 6.4 Summary of Test Results/Plots

Please refer to Appendix C

## 7. Field Strength of Spurious Emissions

### 7.1 Standard Applicable

According to §15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

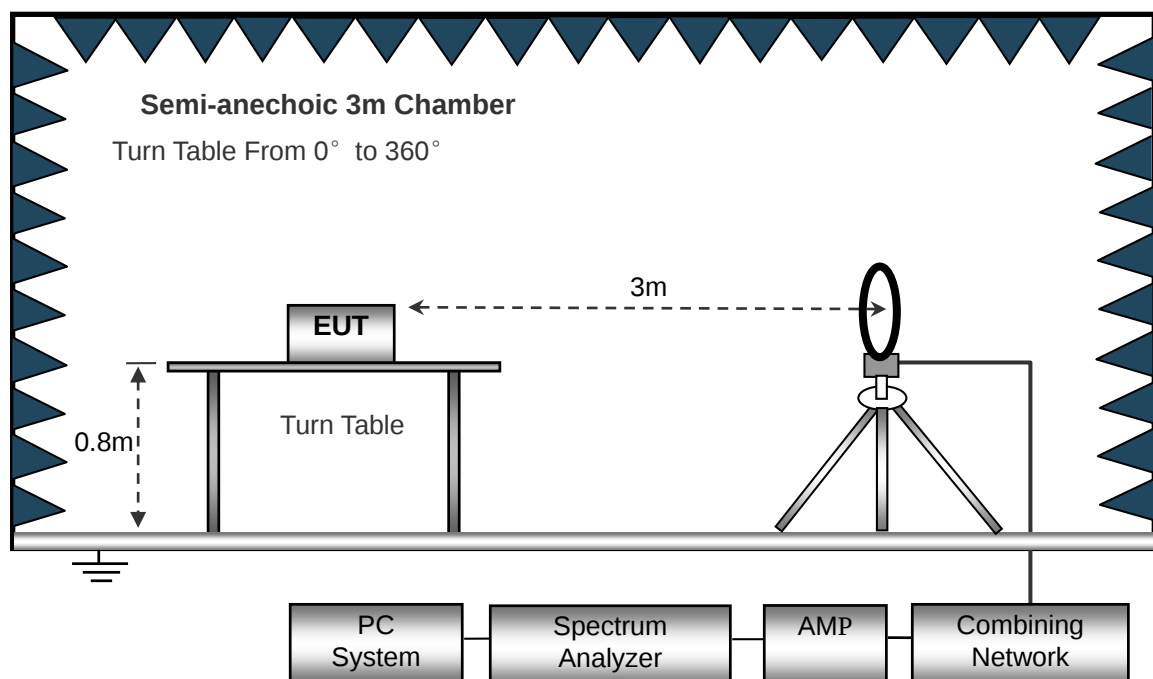
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

### 7.2 Test Procedure

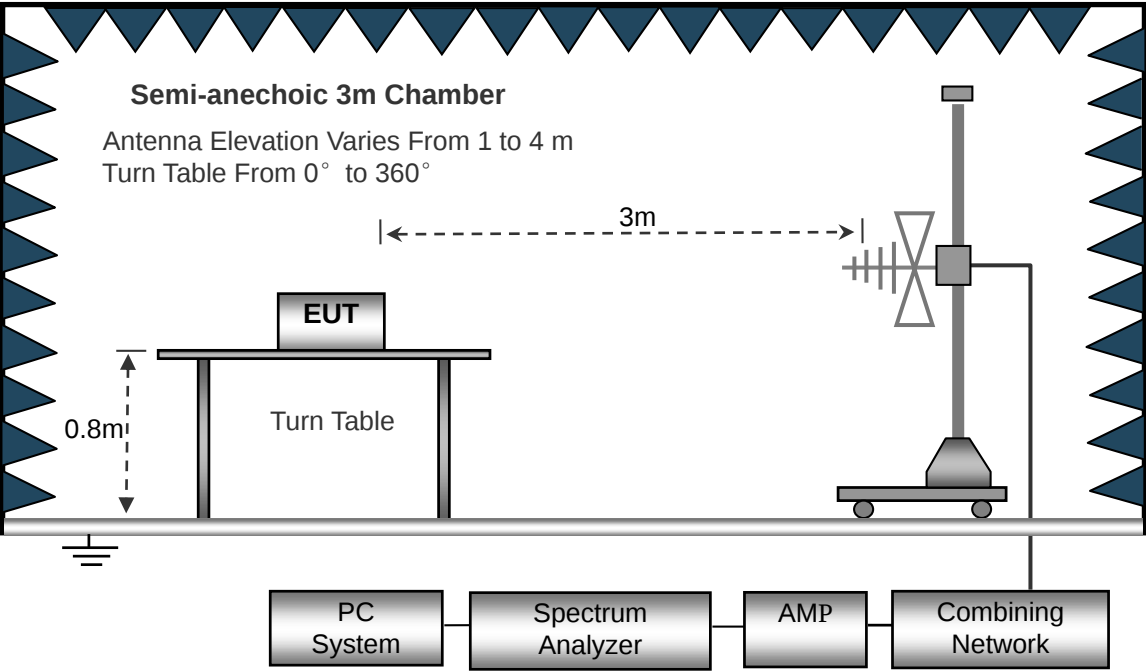
The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10cm.

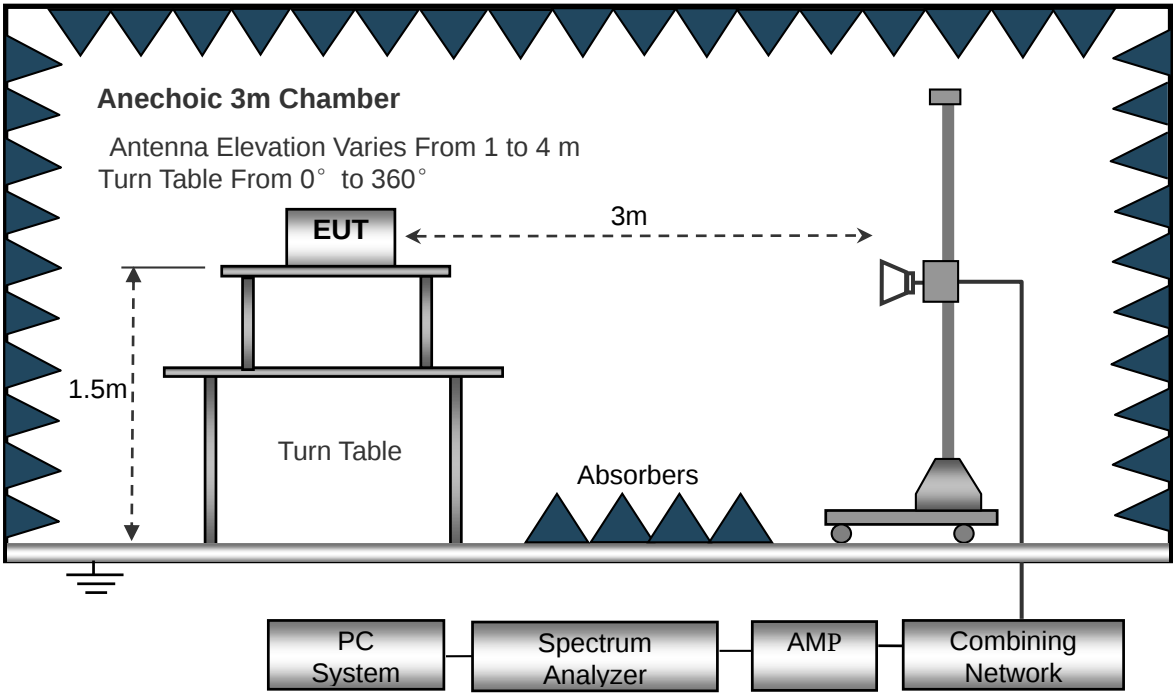
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1GHz.



Frequency :9kHz-30MHz  
RBW=10kHz,  
VBW =30kHz  
Sweep time= Auto  
Trace = max hold  
Detector function = peak

Frequency :30MHz-1GHz  
RBW=120kHz,  
VBW=300kHz  
Sweep time= Auto  
Trace = max hold  
Detector function = peak, QP

Frequency :Above 1GHz  
RBW=1MHz,  
VBW=3MHz(Peak), 10Hz(AV)  
Sweep time= Auto  
Trace = max hold  
Detector function = peak, AV

### 7.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB $\mu$ V means the emission is 6dB $\mu$ V below the maximum limit. The equation for margin calculation is as follows:

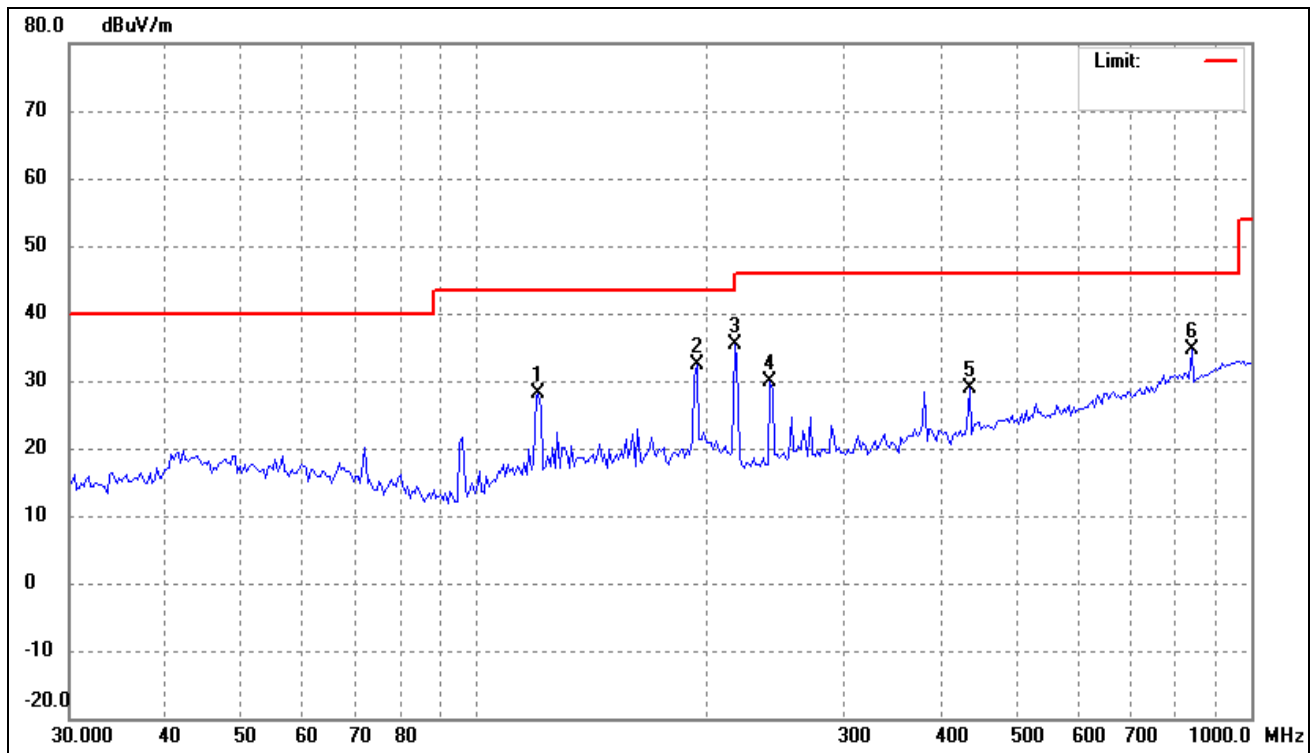
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

### 7.4 Summary of Test Results/Plots

*Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.*

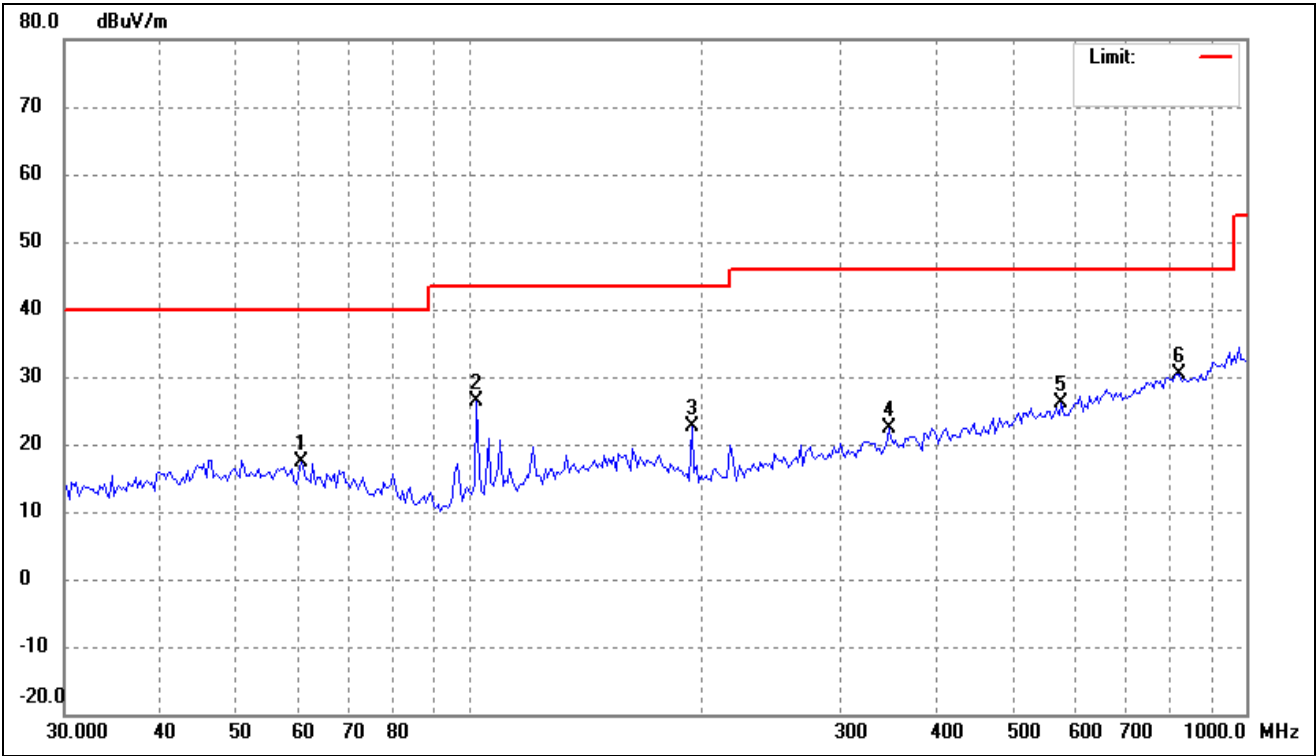
## ➤ Spurious Emissions Below 1GHz

|              |                 |           |            |
|--------------|-----------------|-----------|------------|
| Test Channel | Low(worst case) | Polarity: | Horizontal |
|--------------|-----------------|-----------|------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 120.6118           | 38.84               | -10.83          | 28.01              | 43.50             | -15.49         | -             | -              | peak   |
| 2   | 193.1366           | 43.68               | -11.40          | 32.28              | 43.50             | -11.22         | -             | -              | peak   |
| 3   | 216.1197           | 46.92               | -11.66          | 35.26              | 46.00             | -10.74         | -             | -              | peak   |
| 4   | 240.1442           | 39.81               | -9.98           | 29.83              | 46.00             | -16.17         | -             | -              | peak   |
| 5   | 433.3397           | 34.36               | -5.51           | 28.85              | 46.00             | -17.15         | -             | -              | peak   |
| 6   | 838.8870           | 33.70               | 0.97            | 34.67              | 46.00             | -11.33         | -             | -              | peak   |

|              |                 |           |          |
|--------------|-----------------|-----------|----------|
| Test Channel | Low(worst case) | Polarity: | Vertical |
|--------------|-----------------|-----------|----------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 60.5769            | 26.93               | -9.63           | 17.30              | 40.00             | -22.70         | -             | -              | peak   |
| 2   | 101.8932           | 39.59               | -13.23          | 26.36              | 43.50             | -17.14         | -             | -              | peak   |
| 3   | 193.1366           | 34.02               | -11.40          | 22.62              | 43.50             | -20.88         | -             | -              | peak   |
| 4   | 346.0740           | 29.46               | -7.05           | 22.41              | 46.00             | -23.59         | -             | -              | peak   |
| 5   | 578.0359           | 28.99               | -2.76           | 26.23              | 46.00             | -19.77         | -             | -              | peak   |
| 6   | 821.3871           | 29.52               | 0.98            | 30.50              | 46.00             | -15.50         | -             | -              | peak   |

Remark: ‘-’Means’ the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

## ➤ Spurious Emissions Above 1GHz

| Frequency              | Reading  | Correct | Result   | Limit    | Margin | Polar | Detector |
|------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz)                  | (dBuV/m) | dB      | (dBuV/m) | (dBuV/m) | (dB)   | H/V   |          |
| Low Channel-2405MHz    |          |         |          |          |        |       |          |
| 4810.000               | 56.07    | -13.22  | 42.85    | 74.00    | -31.15 | H     | PK       |
| 7215.000               | 53.47    | -6.87   | 46.60    | 74.00    | -27.40 | H     | PK       |
| 4810.000               | 55.61    | -13.22  | 42.39    | 74.00    | -31.61 | V     | PK       |
| 7215.000               | 54.84    | -6.87   | 47.97    | 74.00    | -26.03 | V     | PK       |
| Middle Channel-2440MHz |          |         |          |          |        |       |          |
| 4880.000               | 55.58    | -13.13  | 42.45    | 74.00    | -31.55 | H     | PK       |
| 7320.000               | 54.16    | -7.18   | 46.98    | 74.00    | -27.02 | H     | PK       |
| 4880.000               | 55.00    | -13.13  | 41.87    | 74.00    | -32.13 | V     | PK       |
| 7320.000               | 53.71    | -7.18   | 46.53    | 74.00    | -27.47 | V     | PK       |
| High Channel-2480MHz   |          |         |          |          |        |       |          |
| 4960.000               | 55.69    | -13.03  | 42.66    | 74.00    | -31.34 | H     | PK       |
| 7440.000               | 53.76    | -7.52   | 46.24    | 74.00    | -27.76 | H     | PK       |
| 4960.000               | 55.28    | -13.03  | 42.25    | 74.00    | -31.75 | V     | PK       |
| 7440.000               | 54.32    | -7.52   | 46.80    | 74.00    | -27.20 | V     | PK       |

*Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*

## 8. Out of Band Emissions

---

### 8.1 Standard Applicable

According to §15.247 (d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

### 8.2 Test Procedure

According to the KDB 558074, the band-edge radiated test method as follows:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

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

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

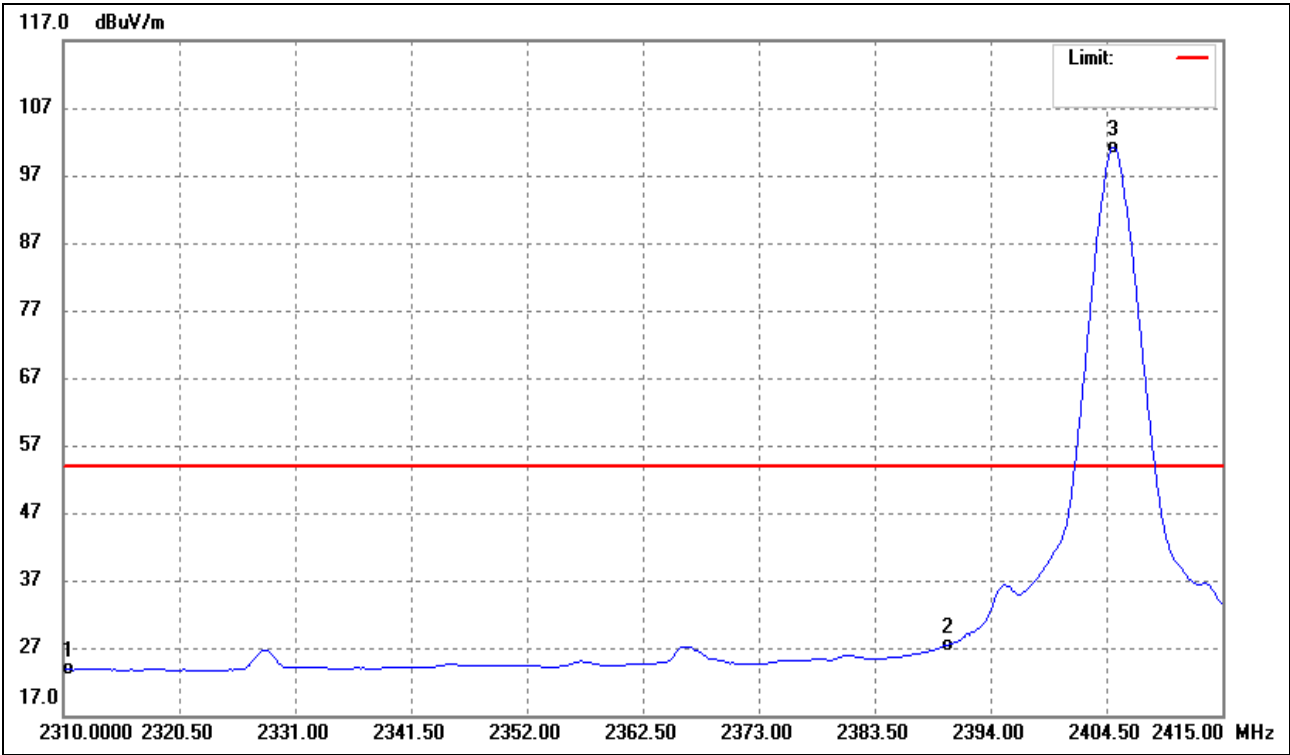
According to the KDB 558074, the conducted spurious emissions test method as follows:

1. Set start frequency to DTS channel edge frequency.
2. Set stop frequency so as to encompass the spectrum to be examined.
3. Set RBW = 100kHz.
4. Set VBW  $\geq$  300kHz.
5. Detector = peak.
6. Trace Mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100kHz bandwidth.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

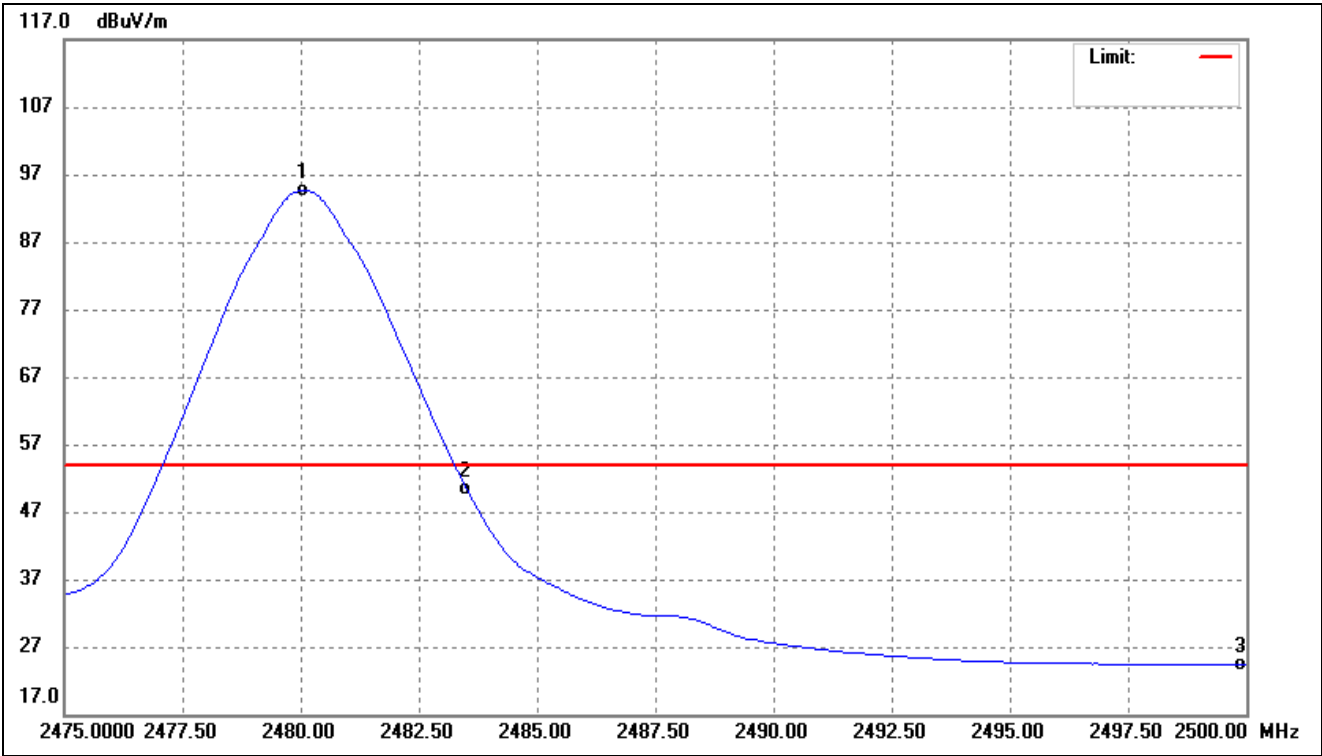
8.3 Summary of Test Results/Plots

|              |     |           |                        |
|--------------|-----|-----------|------------------------|
| Test Channel | Low | Polarity: | Horizontal(worst case) |
|--------------|-----|-----------|------------------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark           |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|------------------|
| 1   | 2310.000           | 43.30               | -19.50          | 23.80              | 54.00             | -30.20         | Average Detector |
|     | 2310.000           | 56.24               | -19.50          | 36.74              | 74.00             | -37.26         | Peak Detector    |
| 2   | 2390.000           | 46.73               | -19.31          | 27.42              | 54.00             | -26.58         | Average Detector |
|     | 2390.000           | 60.87               | -19.31          | 41.56              | 74.00             | -32.44         | Peak Detector    |
| 3   | 2405.110           | 120.46              | -19.28          | 101.18             | /                 | /              | Average Detector |
|     | 2404.479           | 122.45              | -19.28          | 103.17             | /                 | /              | Peak Detector    |

|              |      |           |                        |
|--------------|------|-----------|------------------------|
| Test Channel | High | Polarity: | Horizontal(worst case) |
|--------------|------|-----------|------------------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark           |
|-----|--------------------|---------------------|-----------------------|--------------------|-------------------|----------------|------------------|
| 1   | 2480.060           | 113.74              | -19.09                | 94.65              | /                 | /              | Average Detector |
|     | 2480.511           | 116.38              | -19.09                | 97.29              | /                 | /              | Peak Detector    |
| 2   | 2483.500           | 69.39               | -19.09                | 50.30              | 54.00             | -3.70          | Average Detector |
|     | 2483.500           | 79.18               | -19.09                | 60.09              | 74.00             | -13.91         | Peak Detector    |
| 3   | 2500.000           | 43.36               | -19.05                | 24.31              | 54.00             | -29.69         | Average Detector |
|     | 2500.000           | 56.20               | -19.05                | 37.15              | 74.00             | -36.85         | Peak Detector    |

➤ Conducted test

Please refer to Appendix D

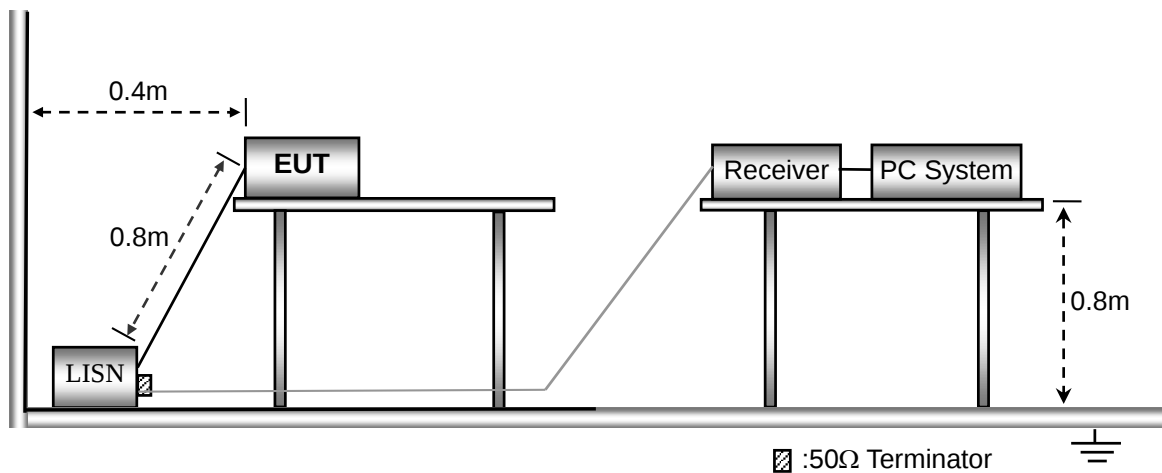
## 9. Conducted Emissions

### 9.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

### 9.2 Basic Test Setup Block Diagram



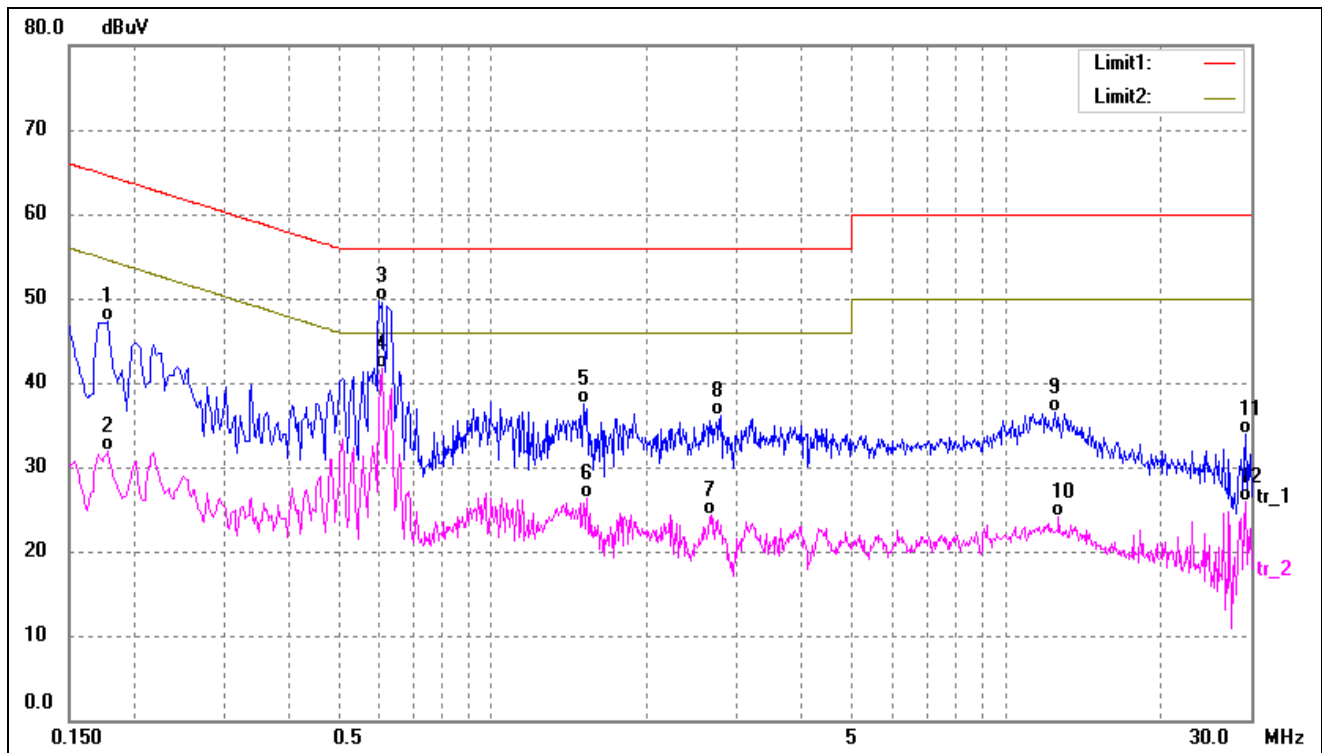
### 9.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

|                                    |        |
|------------------------------------|--------|
| Start Frequency .....              | 150kHz |
| Stop Frequency .....               | 30MHz  |
| Sweep Speed .....                  | Auto   |
| IF Bandwidth.....                  | 10kHz  |
| Quasi-Peak Adapter Bandwidth ..... | 9kHz   |
| Quasi-Peak Adapter Mode .....      | Normal |

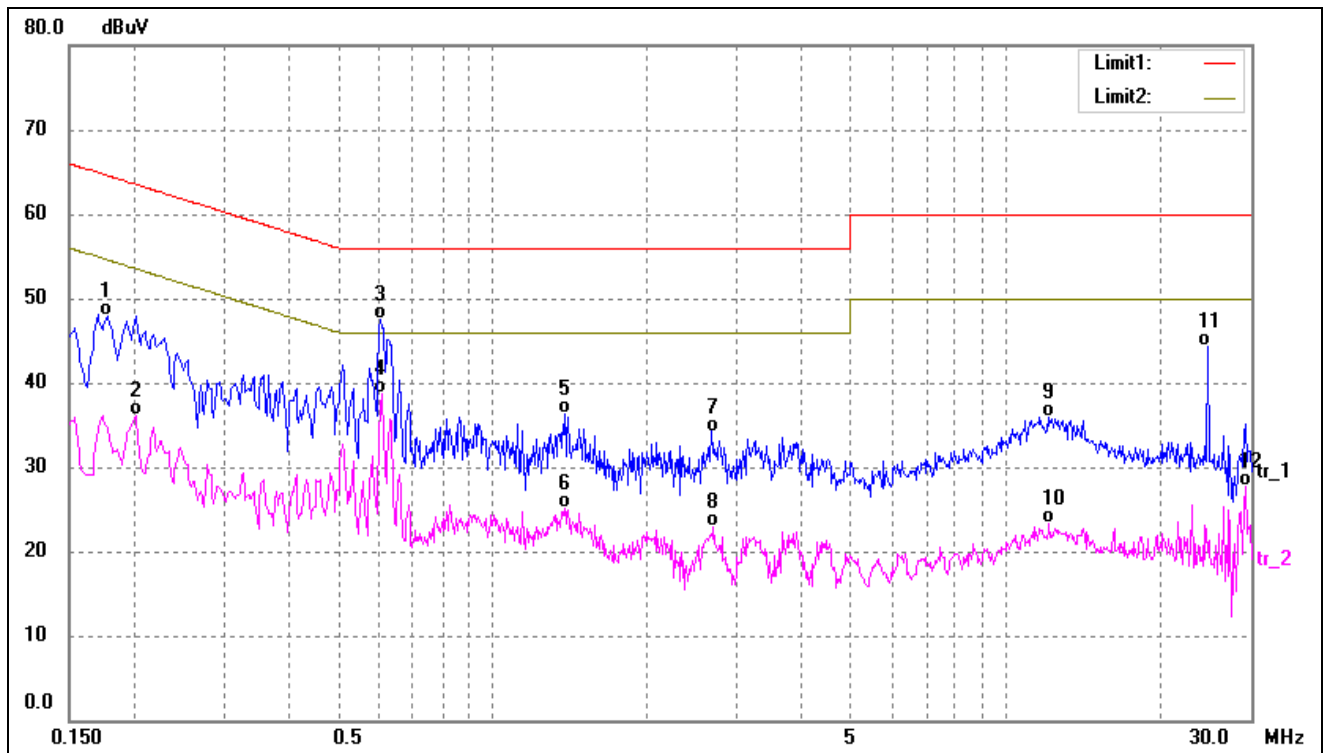
### 9.4 Summary of Test Results/Plots

|           |               |             |           |         |
|-----------|---------------|-------------|-----------|---------|
| Test Mode | Communication | AC120V 60Hz | Polarity: | Neutral |
|-----------|---------------|-------------|-----------|---------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|----------|
| 1   | 0.1780             | 37.71             | 9.54            | 47.25            | 64.57           | -17.32         | QP       |
| 2   | 0.1780             | 22.32             | 9.54            | 31.86            | 54.57           | -22.71         | AVG      |
| 3   | 0.6020             | 39.94             | 9.69            | 49.63            | 56.00           | -6.37          | QP       |
| 4*  | 0.6100             | 32.09             | 9.69            | 41.78            | 46.00           | -4.22          | AVG      |
| 5   | 1.5060             | 27.98             | 9.56            | 37.54            | 56.00           | -18.46         | QP       |
| 6   | 1.5300             | 16.80             | 9.55            | 26.35            | 46.00           | -19.65         | AVG      |
| 7   | 2.6780             | 14.94             | 9.38            | 24.32            | 46.00           | -21.68         | AVG      |
| 8   | 2.7820             | 26.68             | 9.39            | 36.07            | 56.00           | -19.93         | QP       |
| 9   | 12.4940            | 26.82             | 9.66            | 36.48            | 60.00           | -23.52         | QP       |
| 10  | 12.6580            | 14.45             | 9.65            | 24.10            | 50.00           | -25.90         | AVG      |
| 11  | 29.2340            | 24.29             | 9.55            | 33.84            | 60.00           | -26.16         | QP       |
| 12  | 29.2340            | 16.38             | 9.55            | 25.93            | 50.00           | -24.07         | AVG      |

|           |               |             |           |      |
|-----------|---------------|-------------|-----------|------|
| Test Mode | Communication | AC120V 60Hz | Polarity: | Line |
|-----------|---------------|-------------|-----------|------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|----------|
| 1   | 0.1780             | 38.44             | 9.54            | 47.98            | 64.57           | -16.59         | QP       |
| 2   | 0.2020             | 26.52             | 9.63            | 36.15            | 53.52           | -17.37         | AVG      |
| 3   | 0.6060             | 37.83             | 9.69            | 47.52            | 56.00           | -8.48          | QP       |
| 4*  | 0.6100             | 29.09             | 9.69            | 38.78            | 46.00           | -7.22          | AVG      |
| 5   | 1.3820             | 26.69             | 9.61            | 36.30            | 56.00           | -19.70         | QP       |
| 6   | 1.3820             | 15.51             | 9.61            | 25.12            | 46.00           | -20.88         | AVG      |
| 7   | 2.6740             | 24.82             | 9.38            | 34.20            | 56.00           | -21.80         | QP       |
| 8   | 2.6980             | 13.47             | 9.38            | 22.85            | 46.00           | -23.15         | AVG      |
| 9   | 12.0659            | 26.27             | 9.69            | 35.96            | 60.00           | -24.04         | QP       |
| 10  | 12.1380            | 13.60             | 9.68            | 23.28            | 50.00           | -26.72         | AVG      |
| 11  | 24.7139            | 34.82             | 9.54            | 44.36            | 60.00           | -15.64         | QP       |
| 12  | 29.2340            | 18.09             | 9.55            | 27.64            | 50.00           | -22.36         | AVG      |

APPENDIX SUMMARY

|                   |                 |               |               |
|-------------------|-----------------|---------------|---------------|
| Project No.       | WTX25X06158982W | Test Engineer | Jennifer Song |
| Start date        | 2025/7/21       | Finish date   | 2025/7/22     |
| Temperature       | 22.5℃           | Humidity      | 59%           |
| RF specifications | ZigBee          |               |               |

| APPENDIX | Description of Test Item        | Result    |
|----------|---------------------------------|-----------|
| A        | Power Spectral Density          | Compliant |
| B        | DTS Bandwidth                   | Compliant |
| C        | RF Output Power                 | Compliant |
| D        | Conducted Out of Band Emissions | Compliant |

APPENDIX A

---

| Power Spectral Density |              |                                    |                   |
|------------------------|--------------|------------------------------------|-------------------|
| Test Mode              | Test Channel | Power Spectral Density<br>dBm/3kHz | Limit<br>dBm/3kHz |
| GFSK(ZigBee)           | Low          | -6.34                              | 8                 |
|                        | Middle       | -6.80                              | 8                 |
|                        | High         | -7.19                              | 8                 |

|               |                                                                                                                       |
|---------------|-----------------------------------------------------------------------------------------------------------------------|
| <p>Low</p>    | <div data-bbox="644 275 1198 707"></div> <div data-bbox="644 770 858 786"><p>Date: 21.JUL.2025 09:57:41</p></div>     |
| <p>Middle</p> | <div data-bbox="644 815 1198 1247"></div> <div data-bbox="644 1310 858 1326"><p>Date: 21.JUL.2025 09:58:01</p></div>  |
| <p>High</p>   | <div data-bbox="644 1355 1198 1787"></div> <div data-bbox="644 1850 858 1865"><p>Date: 21.JUL.2025 09:58:25</p></div> |

APPENDIX B

| DTS Bandwidth |              |                       |              |
|---------------|--------------|-----------------------|--------------|
| Test Mode     | Test Channel | 6 dB Bandwidth<br>kHz | Limit<br>kHz |
| GFSK(ZigBee)  | Low          | 1632                  | ≥500         |
|               | Middle       | 1668                  | ≥500         |
|               | High         | 1644                  | ≥500         |

Low

Middle

High

Ref 20 dBm Att 30 dB BW 100 kHz Span 6 MHz Center 2.405 GHz Marker 1 [T1] 5.52 dBm

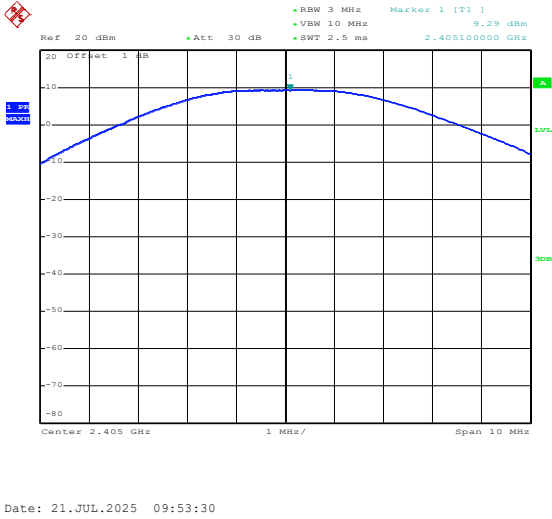
Ref 20 dBm Att 30 dB BW 100 kHz Span 6 MHz Center 2.44 GHz Marker 1 [T1] 4.72 dBm

Ref 20 dBm Att 30 dB BW 100 kHz Span 6 MHz Center 2.48 GHz Marker 1 [T1] 4.44 dBm

APPENDIX C

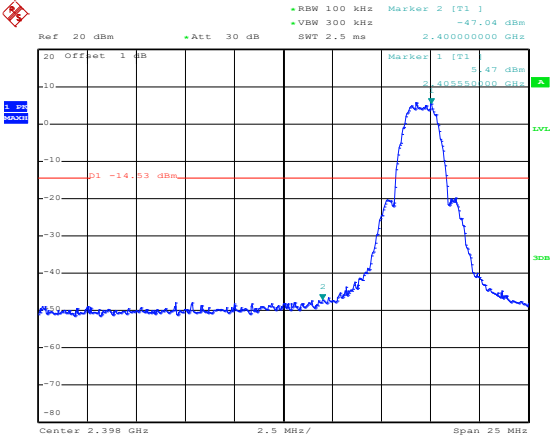
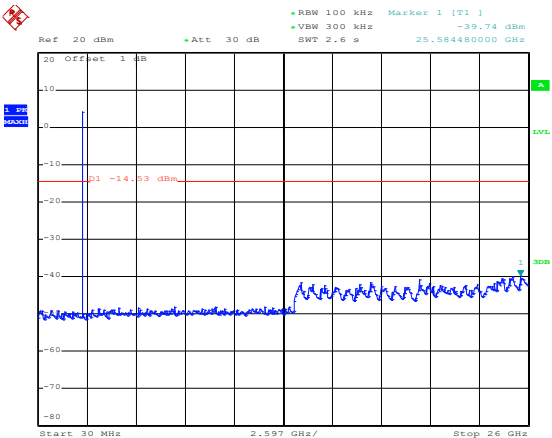
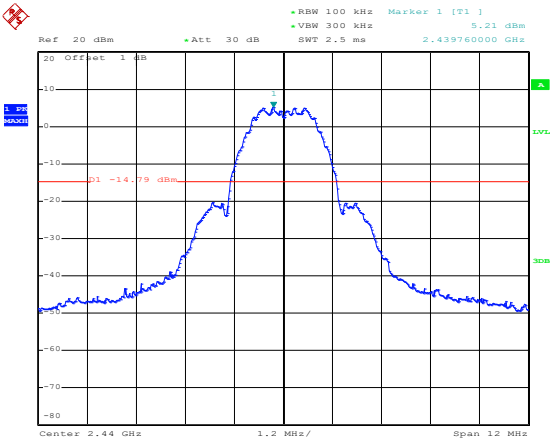
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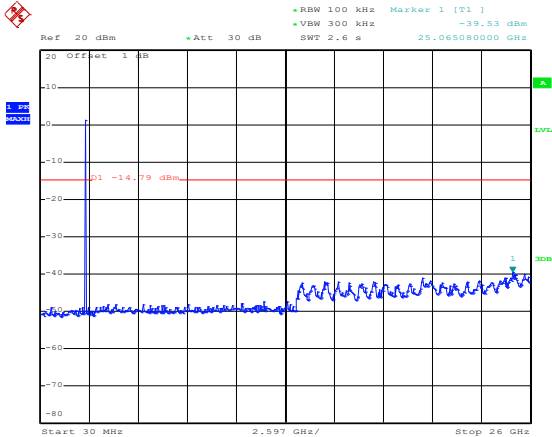
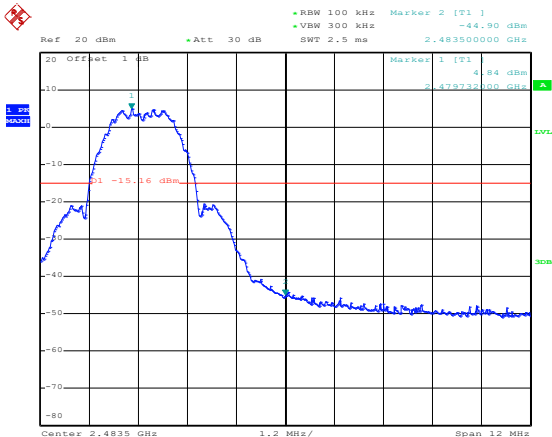
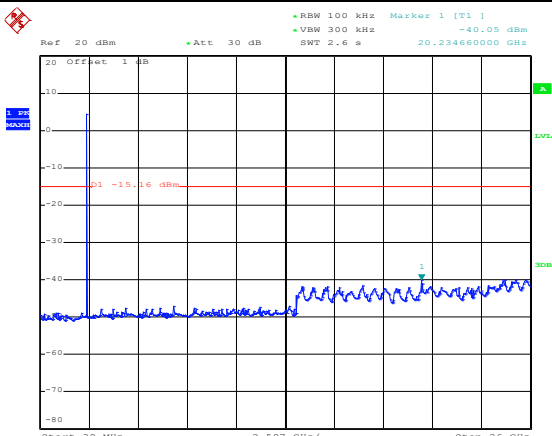
| Modulation type | Channel | Output power (dBm) | Limit (dBm) | Result |
|-----------------|---------|--------------------|-------------|--------|
| GFSK(ZigBee)    | Low     | 9.29               | 30.00       | Pass   |
|                 | Middle  | 8.68               |             |        |
|                 | High    | 8.55               |             |        |

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Low</p> | <div data-bbox="644 232 1198 748"><p>A spectrum plot showing a blue curve peaking at approximately 0 dBm. The y-axis ranges from -80 to 20 dBm. The x-axis is labeled 'Center 2.405 GHz', '1 MHz', and 'Span 10 MHz'. A blue box on the left contains '1.00' and 'MAX'. A green box on the right contains 'A'. Text at the top right includes 'Marker 1 [T1]', '9.29 dBm', and '2.405100000 GHz'. Parameters at the top include 'Ref 20 dBm', 'Att 30 dB', 'RBW 3 MHz', 'VBW 10 MHz', and 'SWT 2.5 ms'.</p></div> <p>Date: 21.JUL.2025 09:53:30</p> |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

APPENDIX D

Conducted Out of Band Emissions

|               |                                                                                                                                                                  |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Low</p>    | <div data-bbox="646 405 1200 842"></div> <p>Date: 21.JUL.2025 10:12:51</p>     |
|               | <div data-bbox="646 943 1200 1379"></div> <p>Date: 21.JUL.2025 10:13:08</p>   |
| <p>Middle</p> | <div data-bbox="646 1485 1200 1921"></div> <p>Date: 21.JUL.2025 10:14:23</p> |

|      |                                                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------|
|      | <div><p>Date: 21.JUL.2025 10:14:42</p></div>   |
| High | <div><p>Date: 21.JUL.2025 10:15:34</p></div>  |
|      | <div><p>Date: 21.JUL.2025 10:16:13</p></div> |

## APPENDIX PHOTOGRAPHS

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Please refer to “ANNEX”

\*\*\*\*\* END OF REPORT \*\*\*\*\*