# RF MEASUREMENT REPORT

| | |
|---|---|
| **FCC ID:** | Q9DAPINR605 |
| **Applicant:** | Hewlett Packard Enterprise Company |
| **Product:** | ACCESS POINT |
| **Model No.:** | APINR605 |
| **Trademark:** | aruba a Hewlett Packard Enterprise company / Hewlett Packard Enterprise |
| **FCC Classification:** | Digital Transmission System (DTS) |
| **FCC Rule Part(s):** | Part 15 Subpart C (Section 15.247) |
| **Result:** | Complies |
| **Received Date:** | 2022-09-30 |
| **Test Date:** | 2022-12-22 ~ 2023-05-09 |

**Reviewed By:** Jame Yuan

**Approved By:** Robin Wu

ACCREDITED TESTING LABORATORY CERTIFICATE #3628.01

The test results relate only to the samples tested.
This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.
The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

## Revision History

| Report No. | Version | Description | Issue Date | Note |
|---|---|---|---|---|
| 2209RSU069-U2 | V01 | Initial Report | 2023-05-11 | Valid |
| | | | | |

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# 1. General Information

## 1.1. Applicant

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

## 1.2. Manufacturer

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

## 1.3. Testing Facility

| | |
|---|---|
| ☒ | **Test Site – MRT Suzhou Laboratory** |
| | **Laboratory Location (Suzhou - Wuzhong)**<br>D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China<br>**Laboratory Location (Suzhou - SIP)**<br>4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China |
| | **Laboratory Accreditations** |
| | A2LA: 3628.01 CNAS: L10551<br>FCC: CN1166 ISED: CN0001<br>VCCI: ☐R-20025 ☐G-20034 ☐C-20020 ☐T-20020<br>☐R-20141 ☐G-20134 ☐C-20103 ☐T-20104 |
| ☐ | **Test Site – MRT Shenzhen Laboratory** |
| | **Laboratory Location (Shenzhen)**<br>1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China |
| | **Laboratory Accreditations** |
| | A2LA: 3628.02 CNAS: L10551<br>FCC: CN1284 ISED: CN0105 |
| ☐ | **Test Site – MRT Taiwan Laboratory** |
| | **Laboratory Location (Taiwan)**<br>No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) |
| | **Laboratory Accreditations** |
| | TAF: L3261-190725<br>FCC: 291082, TW3261 ISED: TW3261 |

### 1.4. Product Information

| | |
|---|---|
| Product Name | ACCESS POINT |
| Model No. | APINR605 |
| Serial No. | CNP6L8M03M |
| Software Version | RAJB-AB05 V1.6.2 |
| Wi-Fi Specification | 802.11a/b/g/n/ac/ax |
| Bluetooth Specification | v5.0 single mode, BLE only |
| Zigbee Specification | 802.15.4 |
| Antenna Information | Refer to section 1.5 |
| Operating Environment | Indoor Use |
| Power Type | AC/DC Adapter input |
| Accessories | |
| AC/DC Adapter | Model: ADP-50GR BD<br>Input: 100 ~ 240V 1.3A 50 – 60Hz<br>Output: 48V 1.042A 50.016W |
| Optional Integrated Modular | Modular Name: LTE-A Cat 12 M.2 Module<br>Mode No.: APINCM12<br>Contain FCC ID: XMR201901EM12G<br>Supported UTRA Band: 2, 4, 5<br>Supported E-UTRA Band:<br>FDD Band: 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 66, TDD Band: 38, 41 |
| Note: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. | |

### 1.5. Radio Specification under Test

| | |
|---|---|
| Frequency Range | 2405 ~ 2480MHz |
| Channel Number | 16 |
| Type of modulation | O-QPSK |
| Antenna Type | PIFA Antenna |
| Antenna Gain | 5.1dBi |

### 1.6. Working Frequencies

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---|---|---|---|---|---|
| 11 | 2405 MHz | 12 | 2410 MHz | 13 | 2415 MHz |
| 14 | 2420 MHz | 15 | 2425 MHz | 16 | 2430 MHz |
| 17 | 2435 MHz | 18 | 2440 MHz | 19 | 2445 MHz |
| 20 | 2450 MHz | 21 | 2455 MHz | 22 | 2460 MHz |
| 23 | 2465 MHz | 24 | 2470 MHz | 25 | 2475 MHz |
| 26 | 2480 MHz | -- | -- | -- | -- |

### 1.7. Description of EUT Filter

| Filter | Specification | Remark |
|---|---|---|
| Wi-Fi | | |
| Filter 1# | Band Pass Filter (2412-2472) | Allowing any transmission on all channels |
| Filter 2# | Band Pass Filter (2402-2447) | Allowing any transmission on 20MHz channels 1 thru 6 and 40MHz channel 3. |
| Filter 3# | Band Pass Filter (2452-2472) | Allowing any transmission on 20MHz channel 11 |
| Filter 4# | Band Pass Filter (5150-5895) | Allowing any transmission on all channels |
| Filter 5# | Band Pass Filter (5150-5835) | Allowing any transmission on UNII Band 1/2a/2c/3 |
| Filter 6# | Band Pass Filter (5925-7125) | Allowing any transmission on UNII Band 5/6/7/8 |
| Bluetooth / ZigBee | | |
| Filter 7# | Band Pass Filter (2402-2480) | Allowing any transmission on all channels |
| Filter 8# | Band Pass Filter (2402-2430) | Allowing transmission on BLE channels 37 (2402MHz) and 38 (2426MHz) and Zigbee channel 11 (2405MHz) |
| Filter 9# | Band Pass Filter (2478-2482) | Allowing transmission on BLE channel 39 (2480MHz) and Zigbee channel 26(2480MHz) |
| Note: ZigBee and BLE can't work simultaneously. | | |

Working Mode

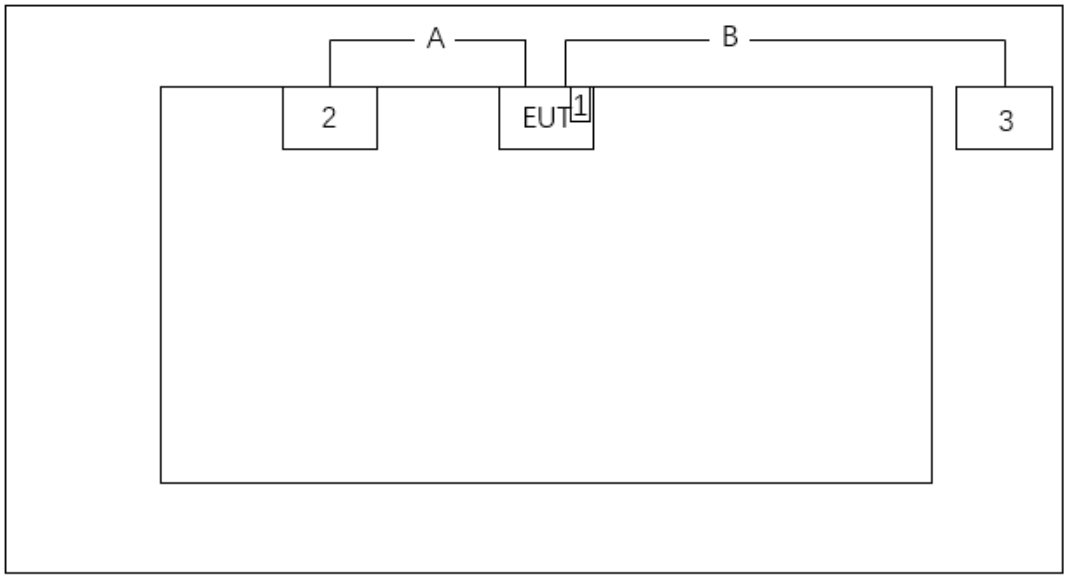
| | Radio 0 | Radio 1 | BLE/ZigBee |
|---|---|---|---|
| 1 | 2.4G_Full Band (Filter 1#) | 6G_Full Band (Filter 6#) | --- |
| 2 | --- | 6G_Full Band (Filter 6#) | 2.4G_Full Band (Filter 7#) |
| 3 | 2.4G_Low Band (Filter 2#) | 6G_Full Band (Filter 6#) | 2.4G_High Band (Filter 9#) |
| 4 | 2.4G_High Band (Filter 3#) | 6G_Full Band (Filter 6#) | 2.4G_Low Band (Filter 8#) |
| 5 | 5G_Full Band (Filter 4#) | 2.4G_Full Band (Filter 1#) | --- |
| 6 | 5G_Full Band (Filter 4#) | --- | 2.4G_Full Band (Filter 7#) |
| 7 | 5G_Full Band (Filter 4#) | 2.4G_Low Band (Filter 2#) | 2.4G_High Band (Filter 9#) |
| 8 | 5G_Full Band (Filter 4#) | 2.4G_High Band (Filter 3#) | 2.4G_Low Band (Filter 8#) |
| 9 | 5G_Full Band (Filter 5#) | 6G_Full Band (Filter 6#) | 2.4G_Full Band (Filter 1#) |
| 10 | 5G_Full Band (Filter 5#) | 6G_Full Band (Filter 6#) | 2.4G_Full Band (Filter 1#) |
| 11 | 5G_Full Band (Filter 5#) | 6G_Full Band (Filter 6#) | 2.4G_Full Band (Filter 1#) |
| 12 | 5G_Full Band (Filter 5#) | 6G_Full Band (Filter 6#) | 2.4G_Full Band (Filter 1#) |

# 2. Test Configuration

## 2.1. Test Mode

| |
|---|
| Mode 1: Transmit by 802.15.4 |

## 2.2. Test System Connection Diagram




| Cable Type | | Cable Spec. | Length |
|---|---|---|---|
| A | Power Cable | Non-Shielding | 1.5m |
| B | Ethernet Cable | Non-Shielding, Cat 5e | >10.0m |
| Product | | Manufacturer | Model No. |
| 1 | USB Flash Disk | SanDisk | N/A |
| 2 | AC Adapter | APD | WB-18Q12R |
| 3 | Notebook | Dell | Latitude 5491 |

## 2.3. Test Software

The test utility software used during testing was “telnet.exe” and command was provided by the manufacturer.

### 2.4. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.247
- KDB 558074 D01v05r02
- ANSI C63.10-2013

### 2.5. Test Environment Condition

| | |
|---|---|
| Ambient Temperature | 15 ~ 35°C |
| Relative Humidity | 20 ~ 75%RH |

## 3. Antenna Requirements

**Excerpt from §15.203 of the FCC Rules/Regulations:**

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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."

- The antenna of the device is **permanently attached.**
- There are no provisions for connection to an external antenna.

**Conclusion:**

The unit complies with the requirement of §15.203.

## 4. Measuring Instrument

| Instrument | Manufacturer | Model No. | Asset No. | Cali. Interval | Cali. Due Date | Test Site |
|---|---|---|---|---|---|---|
| TRILOG Antenna | Schwarzbeck | VULB 9162 | MRTSUE06022 | 1 year | 2023-05-20 | WZ-AC2 |
| EMI Test Receiver | Agilent | N9038A | MRTSUE06125 | 1 year | 2023-06-04 | WZ-AC2 |
| Thermohygrometer | Mingle | ETH529 | MRTSUE06170 | 1 year | 2023-11-27 | WZ-AC2 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | MRTSUE06171 | 1 year | 2023-10-13 | WZ-AC2 |
| Preamplifier | Schwarzbeck | BBV 9718 | MRTSUE06176 | 1 year | 2024-05-07 | WZ-AC2 |
| Anechoic Chamber | RIKEN | WZ-AC2 | MRTSUE06213 | 1 year | 2024-04-20 | WZ-AC2 |
| Thermohygrometer | testo | 608-H1 | MRTSUE11038 | 1 year | 2023-11-01 | WZ-AC2 |
| Loop Antenna | Schwarzbeck | FMZB 1519 | MRTSUE06025 | 1 year | 2023-09-29 | WZ-AC2 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | MRTSUE06597 | 1 year | 2023-11-05 | WZ-AC2 |
| Preamplifier | EMCI | EMC184045SE | MRTSUE06640 | 1 year | 2024-01-12 | WZ-AC2 |
| EMI Test Receiver | R&S | ESR7 | MRTSUE06001 | 1 year | 2023-12-28 | WZ-AC1 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | MRTSUE06023 | 1 year | 2023-08-22 | WZ-AC1 |
| Preamplifier | Agilent | 83017A | MRTSUE06076 | 1 year | 2024-05-07 | WZ-AC1 |
| TRILOG Antenna | Schwarzbeck | VULB 9168 | MRTSUE06172 | 1 year | 2023-06-21 | WZ-AC1 |
| Anechoic Chamber | TDK | WZ-AC1 | MRTSUE06212 | 1 year | 2024-04-20 | WZ-AC1 |
| Thermohygrometer | testo | 608-H1 | MRTSUE06403 | 1 year | 2023-06-06 | WZ-AC1 |
| Signal Analyzer | Keysight | N9010B | MRTSUE06607 | 1 year | 2023-12-28 | WZ-AC1 |
| Thermohygrometer | testo | 608-H1 | MRTSUE11039 | 1 year | 2023-11-01 | WZ-AC1 |
| Signal Generator | Agilent | E4438C | MRTSUE06081 | 1 year | 2024-02-29 | WZ-SR5 |
| Thermohygrometer | testo | 608-H1 | MRTSUE06402 | 1 year | 2023-06-06 | WZ-SR5 |
| Shielding Room | HUAMING | WZ-SR5 | MRTSUE06442 | N/A | N/A | WZ-SR5 |
| Signal Analyzer | Keysight | N9010B | MRTSUE06457 | 1 year | 2023-06-04 | WZ-SR5 |
| Attenuator | MVE | MVE2213 | MRTSUE11073 | 1 year | 2023-06-09 | WZ |
| Attenuator | MVE | MVE2213 | MRTSUE11074 | 1 year | 2023-06-09 | WZ |
| Attenuator | MVE | MVE2213 | MRTSUE11086 | 1 year | 2023-06-09 | WZ |
| Attenuator | MVE | MVE2213 | MRTSUE11087 | 1 year | 2023-06-09 | WZ |

| Software | Version | Function |
|---|---|---|
| EMI Software | V3.0.0 | EMI Test Software |
| BenchVue Power Meter | 2018.1 | Power |
| Controller_MF 7802 | 2.03C | RE Antenna & Turntable |
| Controller_MF 7802 | 1.02 | RE Antenna & Turntable |

# 5. Decision Rules and Measurement Uncertainty

## 5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

## 5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

| |
|---|
| AC Conducted Emission Measurement |
| The maximum measurement uncertainty is evaluated as:<br>9kHz~150kHz: 3.58dB<br>150kHz~30MHz: 3.20dB |
| Radiated Emission Measurement |
| The maximum measurement uncertainty is evaluated as:<br>Coaxial: 9kHz~30MHz: 2.59dB<br>Coplanar: 9kHz~30MHz: 2.60dB<br>Horizontal: 30MHz~200MHz: 3.85dB<br>200MHz~1GHz: 4.36dB<br>1GHz~40GHz: 4.98dB<br>Vertical: 30MHz~200MHz: 4.06dB<br>200MHz~1GHz: 5.28dB<br>1GHz~40GHz: 4.91dB |
| Spurious Emissions, Conducted |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>2.3dB |
| Output Power |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>1.5dB |
| Power Spectrum Density |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>2.3dB |
| Occupied Bandwidth |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>3.2% |

# 6. Test Result

## 6.1. Summary

| FCC Section(s) | Test Description | Test Condition | Verdict |
|---|---|---|---|
| 15.247(a)(2) | 6dB Bandwidth | Conducted | Pass |
| 15.247(b)(3) | Output Power | | Pass |
| 15.247(e) | Power Spectral Density | | Pass |
| 15.247(d) | Band Edge / Out-of-Band Emissions | | Pass |
| 15.205<br>15.209 | General Field Strength (Restricted Bands and Radiated Emission) | Radiated | Pass |
| 15.207 | AC Conducted Emissions<br>150kHz - 30MHz | Line Conducted | Pass |

**Notes:**

1. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
2. For radiated emission tests, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

| Test Items | Filter 7# | Filter 8# | Filter 9# |
|---|---|---|---|
| 6dB Bandwidth | ● | | |
| Output Power | ● | ● | ● |
| Power Spectral Density | ● | | |
| Band Edge / Out-of-Band Emissions | ● | ● | ● |
| Radiated Spurious Emission | ● | ● | ● |
| Radiated Band Edge | ● | ● | ● |
| AC Conducted Emissions 150kHz - 30MHz | ● | | |

## 6.2. 6dB Bandwidth Measurement

### 6.2.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

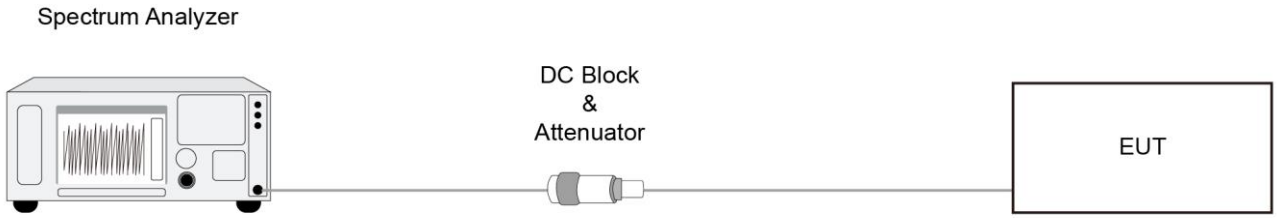
### 6.2.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.8

### 6.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Set RBW = 100 kHz
3. VBW ≥ 3 × RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

### 6.2.4. Test Setup




### 6.2.5. Test Result

Refer to Appendix A.2.

## 6.3. Output Power Measurement

### 6.3.1. Test Limit

The maximum output power shall be less 1 Watt (30dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. 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 FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 6.3.2. Test Procedure

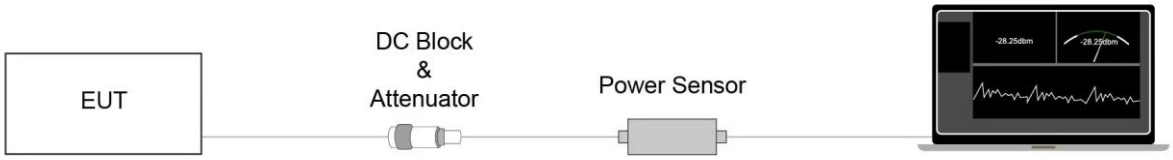
ANSI C63.10 - 2013 - Section 11.9.2.3.2

### 6.3.3. Test Setting

**Average Power Measurement**

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

### 6.3.4. Test Setup




### 6.3.5. Test Result

Refer to Appendix A.3.

## 6.4. Power Spectral Density Measurement

### 6.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

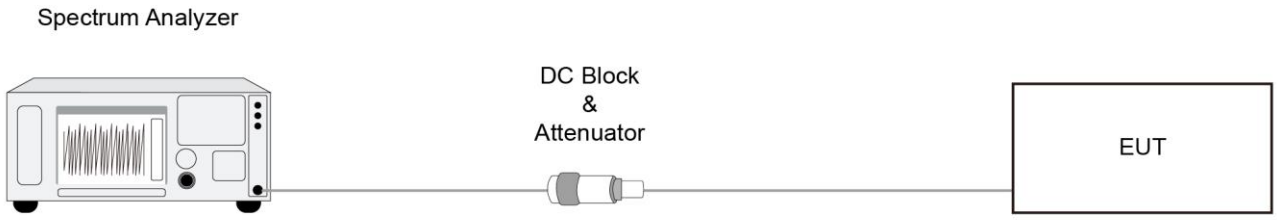
### 6.4.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.10.5

### 6.4.3. Test Setting

1. Measure the duty cycle (x) of the transmitter output signal.
2. Set instrument center frequency to DTS channel center frequency.
3. Set span to at least 1.5 times the OBW.
4. RBW = 10 kHz.
5. VBW = 30 kHz.
6. Detector = RMS.
7. Ensure that the number of measurement points in the sweep ≥ 2 x span/RBW.
8. Sweep time = auto couple.
9. Don’t use sweep triggering. Allow sweep to “free run”.
10. Employ trace averaging (RMS) mode over a minimum of 100 traces.
11. Use the peak marker function to determine the maximum amplitude level.
12. Add 10 log (1/x), where x is the duty cycle measured in step (a, to the measured PSD to compute the average PSD during the actual transmission time. If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

### 6.4.4. Test Setup



### 6.4.5. Test Result

Refer to Appendix A.4.

## 6.5. Conducted Band Edge and Out-of-Band Emissions Measurement

### 6.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

### 6.5.2. Test Procedure

ANSI C63.10-2013 - Section 11.11

### 6.5.3. Test Settitng

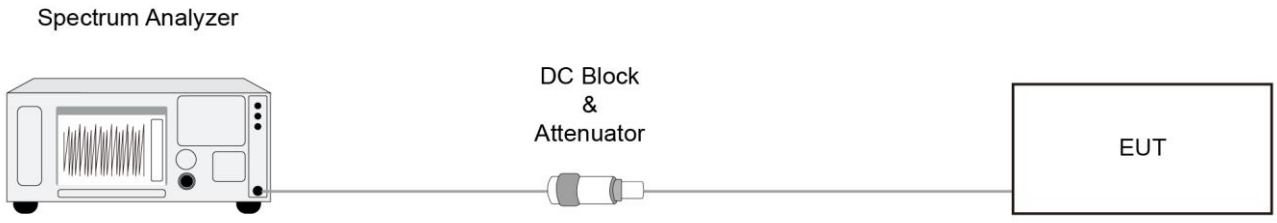
**Reference level measurement**

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW ≥ 3 x RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

**Emission level measurement**

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

### 6.5.4. Test Setup



### 6.5.5. Test Result

Refer to Appendix A.5.

## 6.6. Radiated Spurious Emission Measurement

### 6.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 | | |
|---|---|---|
| Frequency [MHz] | Field Strength [uV/m] | Measured Distance [Meters] |
| 0.009 - 0.490 | 2400/F (kHz) | 300 |
| 0.490 - 1.705 | 24000/F (kHz) | 30 |
| 1.705 - 30 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

### 6.6.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.11 & 11.12

ANSI C63.10 - 2013 - Section 6.3 (General Requirements)

ANSI C63.10 - 2013 - Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 - Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 - Section 6.6 (Standard test method above 1GHz)

### 6.6.3. Test Setting

**Table 1 - RBW as a function of frequency**

| Frequency | RBW |
|---|---|
| 9 ~ 150 kHz | 200 ~ 300 Hz |
| 0.15 ~ 30 MHz | 9 ~ 10 kHz |
| 30 ~ 1000 MHz | 100 ~ 120 kHz |
| > 1000MHz | 1MHz |

**Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

**Peak Measurements above 1GHz**

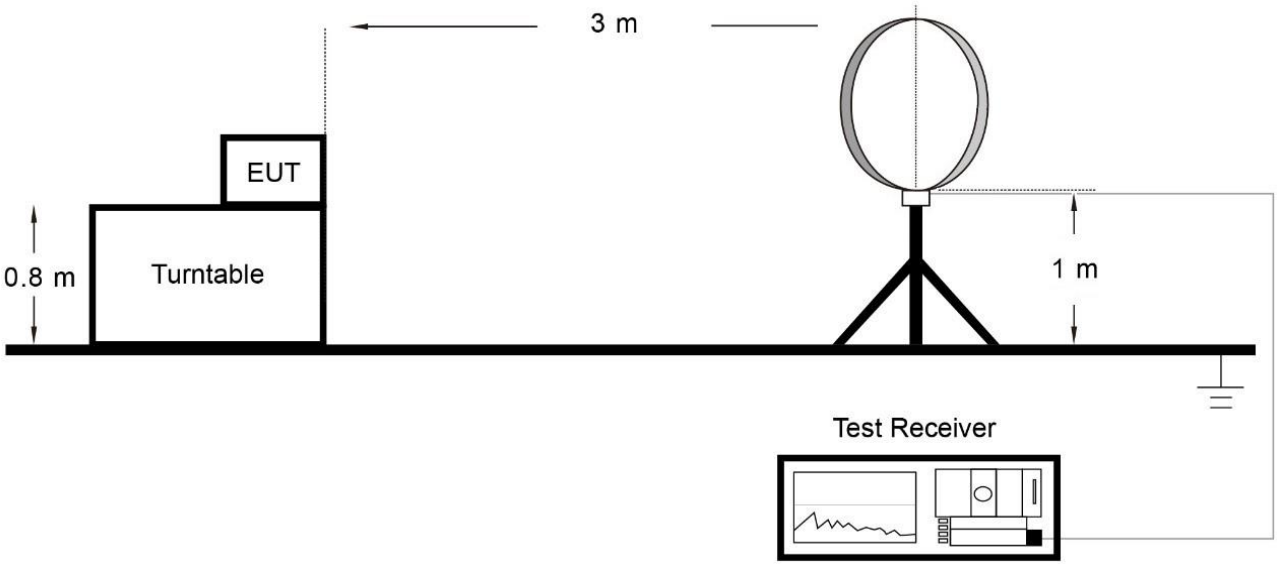
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Average Field Strength Measurements**

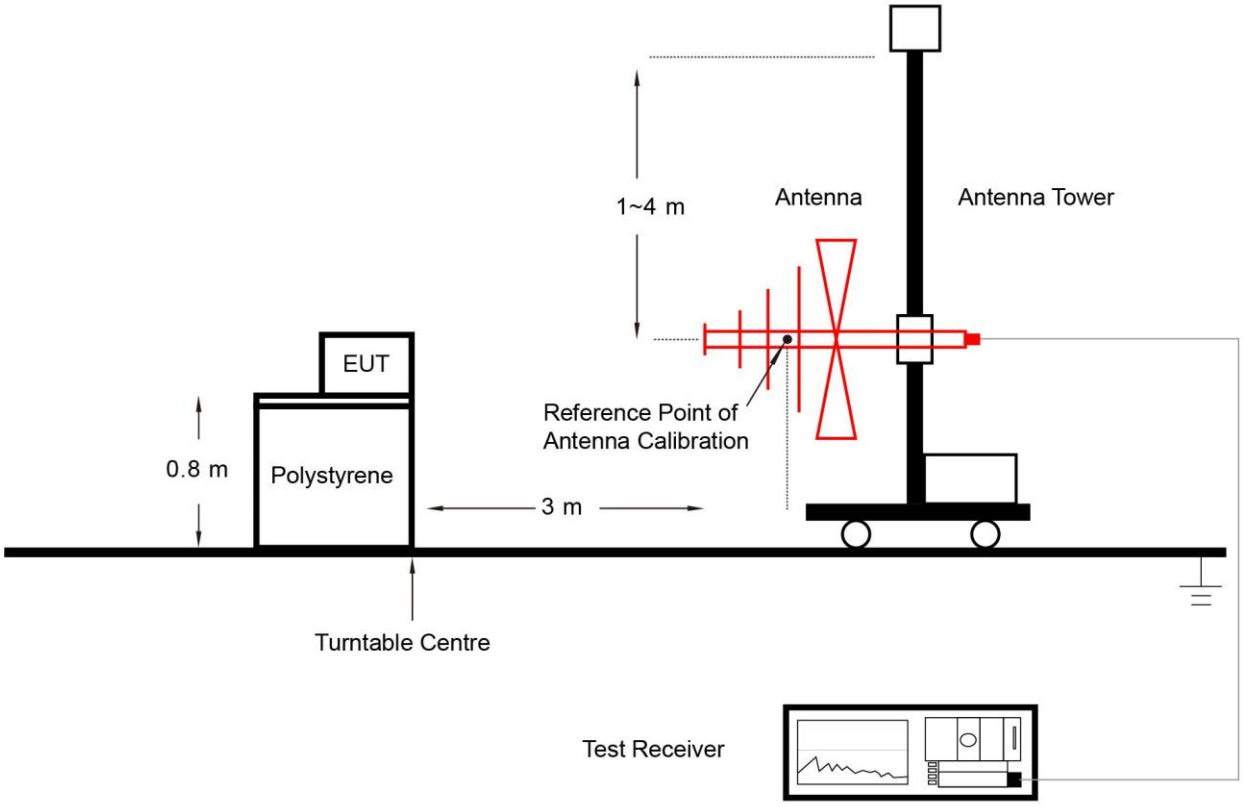
1. Average Measurement Level = Peak Measurement Level - 20 * Log(Duty Cycle) = -20
2. Duty Cycle = 10% (Refer to cover letter)

### 6.6.4. Test Setup

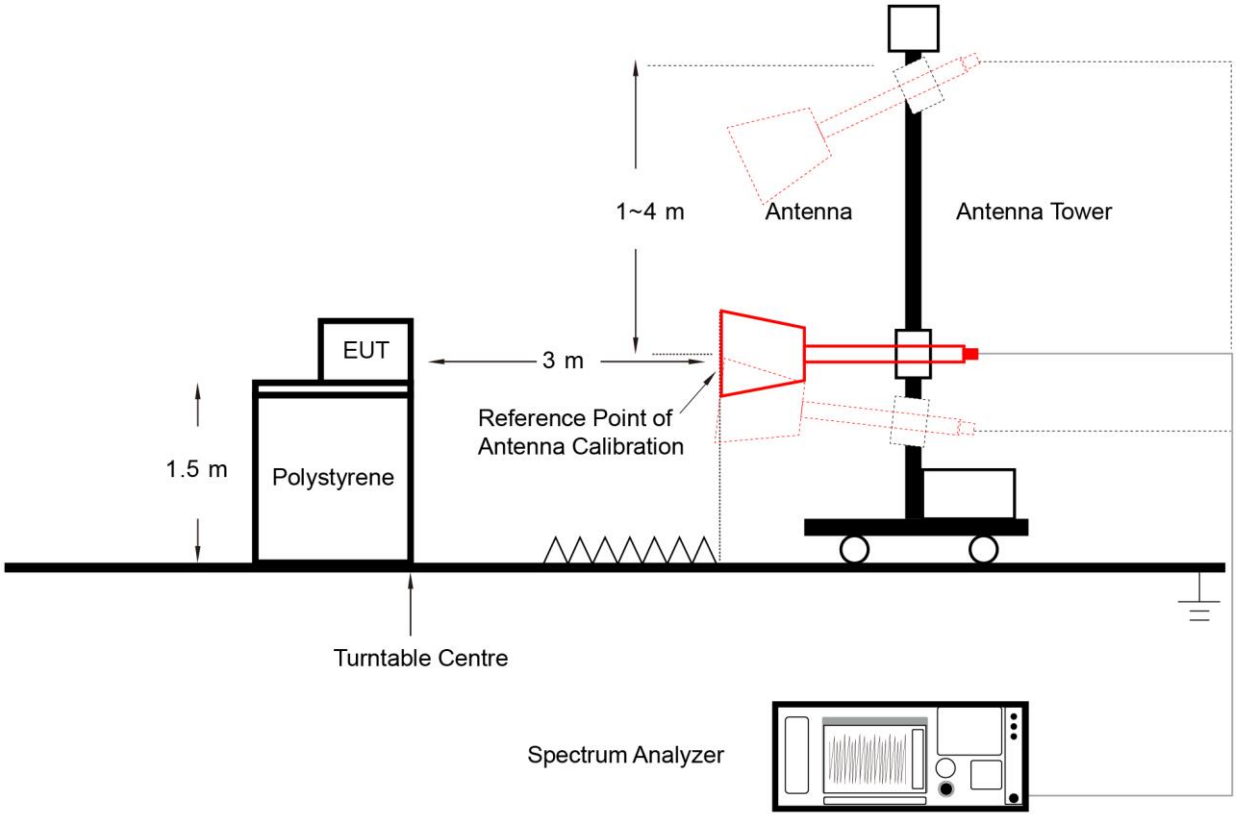
Below 30MHz Test Setup:




Below 1GHz Test Setup:



Above 1GHz Test Setup:




### 6.6.5. Test Result

Refer to Appendix A.6.

## 6.7. Radiated Restricted Band Edge Measurement

### 6.7.1. Test Limit

**For 15.205 requirement:**

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

| Frequency (MHz) | Frequency (MHz) | Frequency (MHz) | Frequency (GHz) |
|---|---|---|---|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| [1] 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | ([2]) |
| 13.36 - 13.41 | -- | -- | -- |

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 | | |
|---|---|---|
| Frequency [MHz] | Field Strength [uV/m] | Measured Distance [Meters] |
| 0.009 - 0.490 | 2400/F (kHz) | 300 |
| 0.490 - 1.705 | 24000/F (kHz) | 30 |
| 1.705 - 30 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

### 6.7.2. Test Procedure

ANSI C63.10-2013 Section 6.3 & 6.6 & 11.13

### 6.7.3. Test Setting

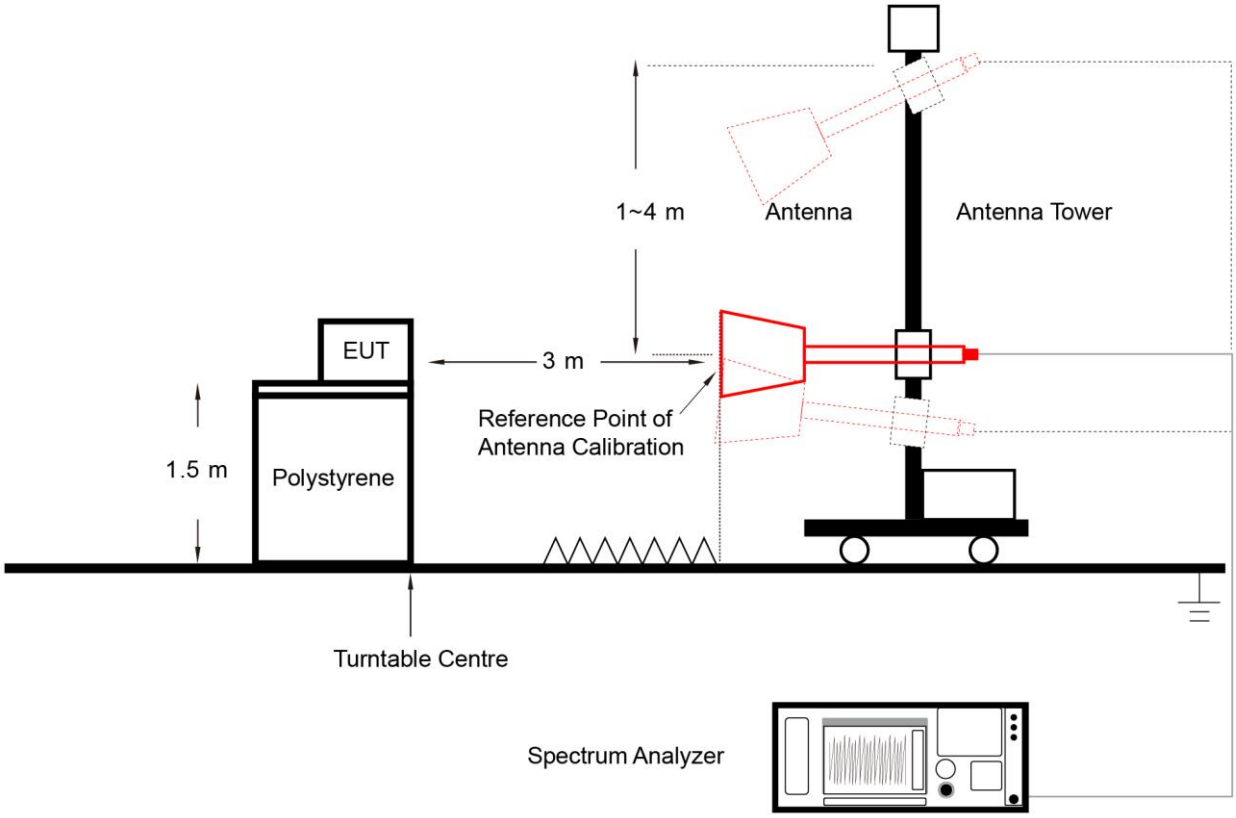
**Peak Field Strength Measurements**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Average Field Strength Measurements**

1. Average Measurement Level = Peak Measurement Level - 20 * Log(Duty Cycle) = -20
2. Duty Cycle = 10% (Refer to cover letter)

### 6.7.4. Test Setup




### 6.7.5. Test Result

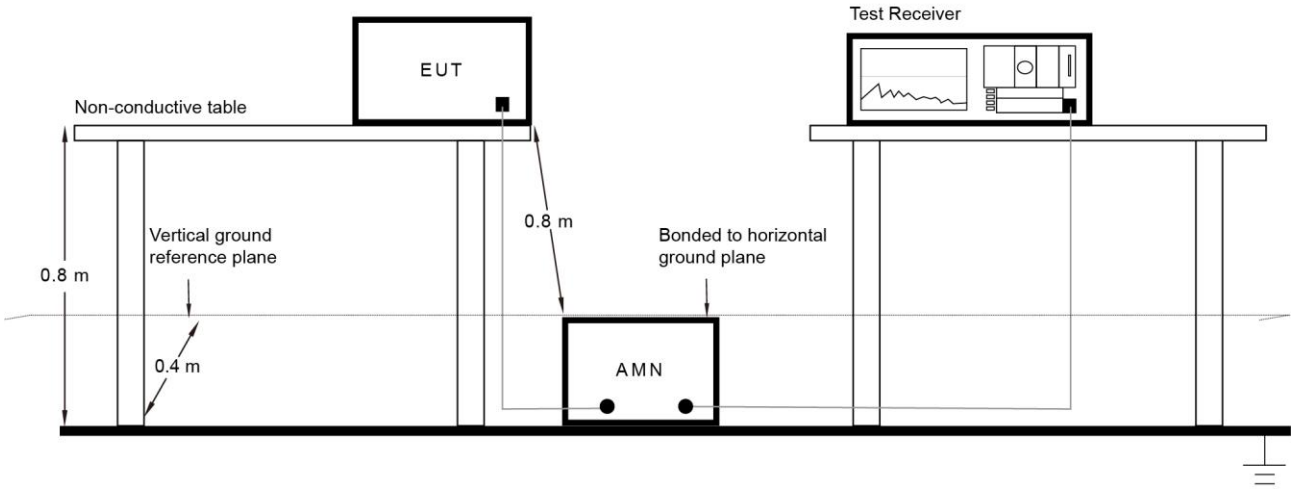
Refer to Appendix A.7.

## 6.8. AC Conducted Emissions Measurement

### 6.8.1. Test Limit

| FCC Part 15 Subpart C Paragraph 15.207 Limits | | |
|---|---|---|
| Frequency (MHz) | QP (dBuV) | AV (dBuV) |
| 0.15 - 0.50 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |
| Note 1: The lower limit shall apply at the transition frequencies. Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz. | | |

### 6.8.2. Test Setup




### 6.8.3. Test Result

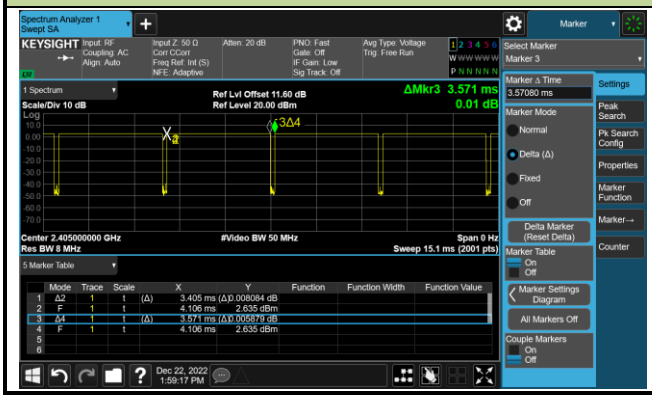
Refer to Appendix A.8.

# Appendix A – Test Result

## A.1 Duty Cycle Test Result

| Test Site | WZ-SR5 | Test Engineer | Luis Yang |
|---|---|---|---|
| Test Date | 2022-12-22 | | |

| Test Mode | Duty Cycle |
|---|---|
| 802.15.4 | 95.35% |

| Duty Cycle (T = Transmission Duration) | |
|---|---|
| 802.15.4 - 2405MHz | |
|  | |



Note 1: This duty cycle was only suitable for continuous transmission of signals via commands.

Note 2: The manufacturer, declared that the ZigBee normal operation, when implemented, will be limited to a max duty cycle of 10% or less in any 100ms period. So -20dB correction factor was used during peak and average band edge testing.

## A.2 6dB Bandwidth Test Result

| Test Site | WZ-SR5 | Test Engineer | Luis Yang |
|---|---|---|---|
| Test Date | 2023-05-06 | | |

| Test Mode | Modulation Mode | Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) | Result |
|---|---|---|---|---|---|---|
| 802.15.4 | O-QPSK | 11 | 2405 | 1.117 | ≥ 0.5 | Pass |
| 802.15.4 | O-QPSK | 18 | 2440 | 1.121 | ≥ 0.5 | Pass |
| 802.15.4 | O-QPSK | 26 | 2480 | 1.114 | ≥ 0.5 | Pass |

802.15.4 6dB Bandwidth

Channel 11 (2405MHz)


Channel 18 (2440MHz)


Channel 26 (2480MHz)

### A.3 Output Power Test Result

| Test Site | WZ-SR5 | Test Engineer | Luis Yang |
|---|---|---|---|
| Test Date | 2023-05-04 | Filter Configuration | Filter 7# |

**Test Result of Peak Output Power**

| Test Mode | Modulation Mode | Channel No. | Freq. (MHz) | Peak Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|
| 802.15.4 | O-QPSK | 11 | 2405 | 4.38 | ≤ 30.00 | Pass |
| 802.15.4 | O-QPSK | 18 | 2440 | 4.82 | ≤ 30.00 | Pass |
| 802.15.4 | O-QPSK | 26 | 2480 | 4.74 | ≤ 30.00 | Pass |

**Test Result of Average Output Power (Reporting Only)**

| Test Mode | Modulation Mode | Channel No. | Freq. (MHz) | Average Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|
| 802.15.4 | O-QPSK | 11 | 2405 | 4.22 | ≤ 30.00 | Pass |
| 802.15.4 | O-QPSK | 18 | 2440 | 4.70 | ≤ 30.00 | Pass |
| 802.15.4 | O-QPSK | 26 | 2480 | 4.56 | ≤ 30.00 | Pass |

| Test Site | WZ-SR5 | Test Engineer | Luis Yang |
|---|---|---|---|
| Test Date | 2023-05-04 | Filter Configuration | Filter 8# |

**Test Result of Peak Output Power**

| Test Mode | Modulation Mode | Channel No. | Freq. (MHz) | Peak Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|
| 802.15.4 | O-QPSK | 11 | 2405 | 4.05 | ≤ 30.00 | Pass |

**Test Result of Average Output Power (Reporting Only)**

| Test Mode | Modulation Mode | Channel No. | Freq. (MHz) | Average Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|
| 802.15.4 | O-QPSK | 11 | 2405 | 3.91 | ≤ 30.00 | Pass |

| Test Site | WZ-SR5 | Test Engineer | Luis Yang |
|---|---|---|---|
| Test Date | 2023-05-04 | Filter Configuration | Filter 9# |

**Test Result of Peak Output Power**

| Test Mode | Modulation Mode | Channel No. | Freq. (MHz) | Peak Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|
| 802.15.4 | O-QPSK | 26 | 2480 | 3.25 | ≤ 30.00 | Pass |

**Test Result of Average Output Power (Reporting Only)**

| Test Mode | Modulation Mode | Channel No. | Freq. (MHz) | Average Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|
| 802.15.4 | O-QPSK | 26 | 2480 | 3.08 | ≤ 30.00 | Pass |

## A.4 Power Spectral Density Test Result

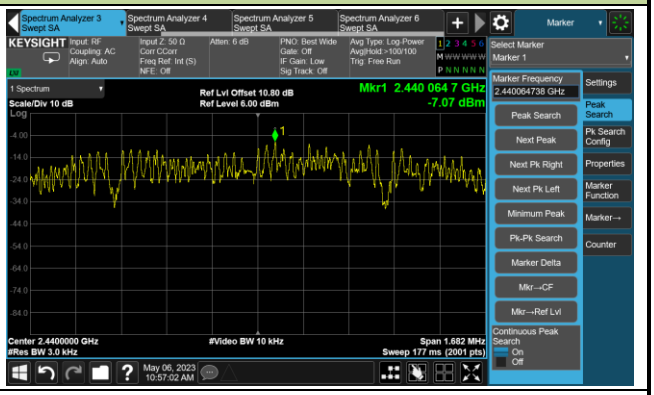
| Test Site | WZ-SR5 | Test Engineer | Luis Yang |
|---|---|---|---|
| Test Date | 2023-05-06 | | |

| Test Mode | Modulation Mode | Channel No. | Frequency (MHz) | PK PSD (dBm / 3kHz) | Limit (dBm / 3kHz) | Result |
|---|---|---|---|---|---|---|
| 802.15.4 | O-QPSK | 11 | 2405 | -7.36 | ≤ 8.00 | Pass |
| 802.15.4 | O-QPSK | 18 | 2440 | -7.07 | ≤ 8.00 | Pass |
| 802.15.4 | O-QPSK | 26 | 2480 | -7.22 | ≤ 8.00 | Pass |

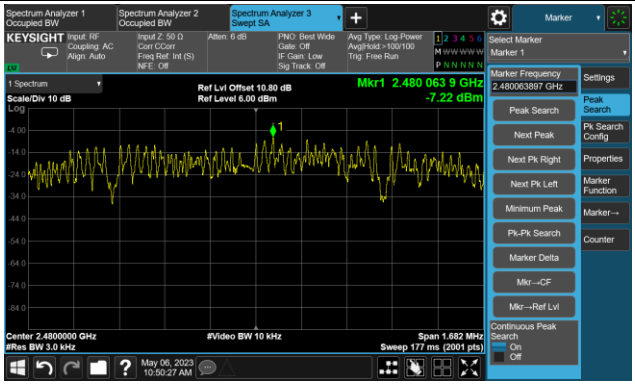
802.15.4 Power Density

Channel 11 (2405MHz)


Channel 18 (2440MHz)




Channel 26 (2480MHz)



## A.5 Conducted Band Edge and Out-of-Band Emissions Test Result

| | | | |
|---|---|---|---|
| Test Site | WZ-SR5 | Test Engineer | Luis Yang |
| Test Date | 2023-05-06 | Filter Configuration | Filter 7# |

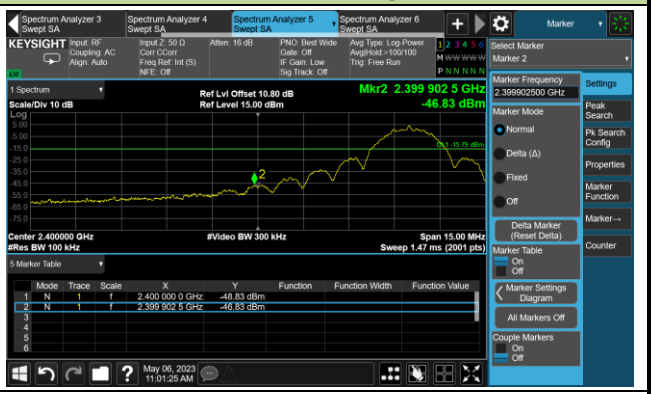
| Test Mode | Data Rate / MCS | Channel No. | Frequency (MHz) | Limit (dBc) | Result |
|---|---|---|---|---|---|
| 802.15.4 | O-QPSK | 11 | 2405 | > 20 | Pass |
| 802.15.4 | O-QPSK | 18 | 2440 | > 20 | Pass |
| 802.15.4 | O-QPSK | 26 | 2480 | > 20 | Pass |

802.15.4 Out-of-Band Emissions

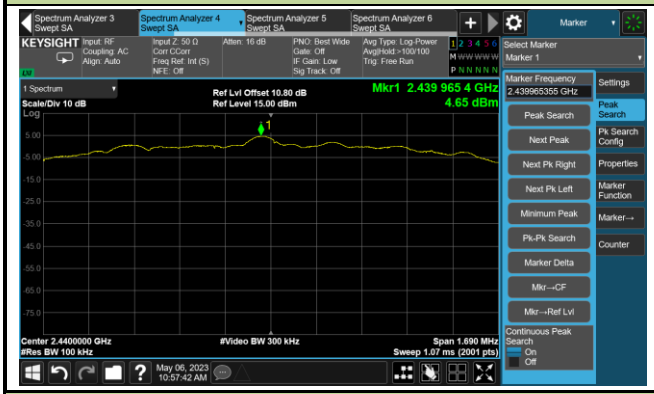
Channel 11 (2405MHz)

100kHz PSD Reference Level


Low Band Edge




Spurious Emission

| Channel 18 (2440MHz) | |
|---|---|
| 100kHz PSD Reference Level | Spurious Emission |
|  |  |
| **Channel 26 (2480MHz)** | |
| 100kHz PSD Reference Level | High Band Edge |
|  |  |
| Spurious Emission | |
|  | |

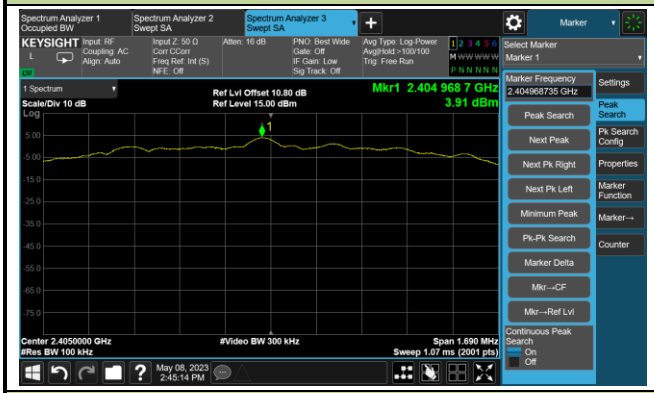
| Test Site | WZ-SR5 | Test Engineer | Luis Yang |
|---|---|---|---|
| Test Date | 2023-05-08 | Filter Configuration | Filter 8# |

| Test Mode | Data Rate / MCS | Channel No. | Frequency (MHz) | Limit (dBc) | Result |
|---|---|---|---|---|---|
| 802.15.4 | O-QPSK | 11 | 2405 | > 20 | Pass |

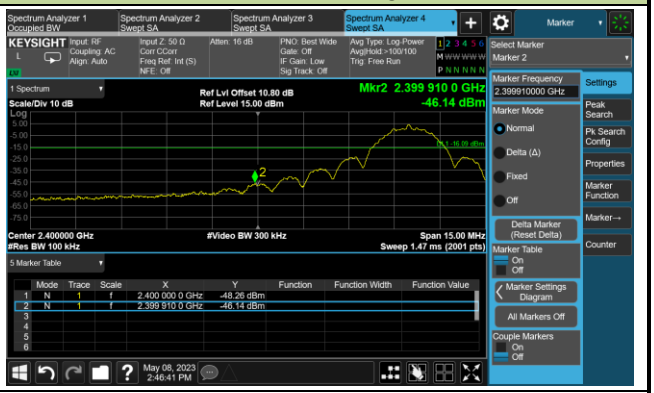
802.15.4 Out-of-Band Emissions

Channel 11 (2405MHz)

100kHz PSD Reference Level




Low Band Edge




Spurious Emission

| Test Site | WZ-SR5 | Test Engineer | Luis Yang |
|---|---|---|---|
| Test Date | 2023-05-08 | Filter Configuration | Filter 9# |

| Test Mode | Data Rate / MCS | Channel No. | Frequency (MHz) | Limit (dBc) | Result |
|---|---|---|---|---|---|
| 802.15.4 | O-QPSK | 26 | 2480 | > 20 | Pass |

802.15.4 Out-of-Band Emissions

Channel 11 (2480MHz)

100kHz PSD Reference Level


Low Band Edge


Spurious Emission

### A.6 Radiated Spurious Emission Test Result

| | | | |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Engineer | Charles Zhang |
| Test Date | 2023-05-09 | Test Mode | 802.15.4 |
| Filter Configuration | Filter 7# | | |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Test Channel | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| 11 | 4833.5 | 38.2 | 2.8 | 41.0 | 74.0 | -33.0 | Peak | Horizontal |
| | 7528.0 | 38.0 | 8.1 | 46.1 | 74.0 | -27.9 | Peak | Horizontal |
| | 10843.0 | 36.6 | 13.5 | 50.1 | 74.0 | -23.9 | Peak | Horizontal |
| | 4833.5 | 37.2 | 2.8 | 40.0 | 74.0 | -34.0 | Peak | Vertical |
| | 7485.5 | 37.2 | 8.3 | 45.5 | 74.0 | -28.5 | Peak | Vertical |
| | 10724.0 | 36.4 | 13.4 | 49.8 | 74.0 | -24.2 | Peak | Vertical |
| 18 | 4833.5 | 36.8 | 2.8 | 39.6 | 74.0 | -34.4 | Peak | Horizontal |
| | 7281.5 | 37.0 | 8.1 | 45.1 | 74.0 | -28.9 | Peak | Horizontal |
| | 10911.0 | 36.0 | 13.4 | 49.4 | 74.0 | -24.6 | Peak | Horizontal |
| | 4842.0 | 37.3 | 2.8 | 40.1 | 74.0 | -33.9 | Peak | Vertical |
| | 7604.5 | 37.3 | 7.9 | 45.2 | 74.0 | -28.8 | Peak | Vertical |
| | 10800.5 | 36.8 | 13.4 | 50.2 | 74.0 | -23.8 | Peak | Vertical |
| 26 | 4833.5 | 37.7 | 2.8 | 40.5 | 74.0 | -33.5 | Peak | Horizontal |
| | 7494.0 | 36.3 | 8.3 | 44.6 | 74.0 | -29.4 | Peak | Horizontal |
| | 11480.5 | 36.4 | 13.0 | 49.4 | 74.0 | -24.6 | Peak | Horizontal |
| | 4825.0 | 38.1 | 2.8 | 40.9 | 74.0 | -33.1 | Peak | Vertical |
| | 8106.0 | 37.0 | 9.0 | 46.0 | 74.0 | -28.0 | Peak | Vertical |
| | 11064.0 | 36.8 | 13.3 | 50.1 | 74.0 | -23.9 | Peak | Vertical |
| Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)<br>Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB) | | | | | | | | |

| Test Site | WZ-AC1 | Test Engineer | Charles Zhang |
|---|---|---|---|
| Test Date | 2023-05-09 | Test Mode | 802.15.4 |
| Filter Configuration | Filter 8# | | |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

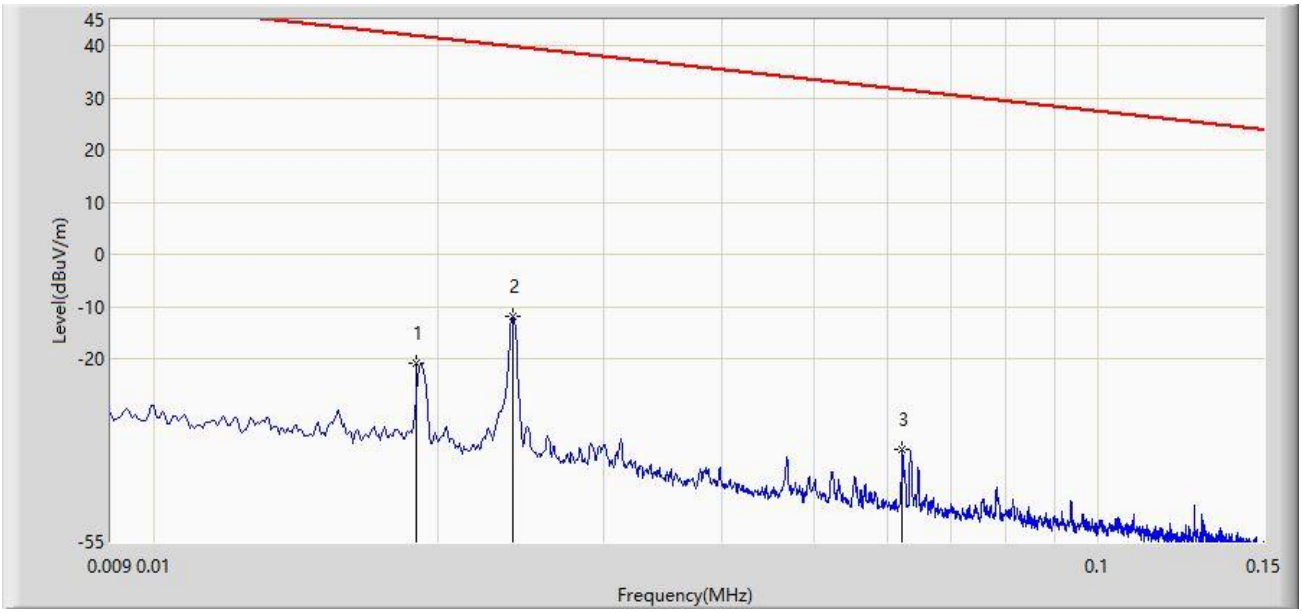
| Test Channel | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| 11 | 4825.0 | 37.6 | 2.8 | 40.4 | 74.0 | -33.6 | Peak | Horizontal |
| | 7528.0 | 37.9 | 8.1 | 46.0 | 74.0 | -28.0 | Peak | Horizontal |
| | 10996.0 | 35.9 | 13.6 | 49.5 | 74.0 | -24.5 | Peak | Horizontal |
| | 4833.5 | 38.1 | 2.8 | 40.9 | 74.0 | -33.1 | Peak | Vertical |
| | 7519.5 | 37.2 | 8.1 | 45.3 | 74.0 | -28.7 | Peak | Vertical |
| | 11582.5 | 37.5 | 12.6 | 50.1 | 74.0 | -23.9 | Peak | Vertical |
| Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)<br>Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB) | | | | | | | | |

| Test Site | WZ-AC1 | Test Engineer | Charles Zhang |
|---|---|---|---|
| Test Date | 2023-05-09 | Test Mode | 802.15.4 |
| Filter Configuration | Filter 9# | | |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Test Channel | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| 26 | 4842.0 | 38.5 | 2.8 | 41.3 | 74.0 | -32.7 | Peak | Horizontal |
| | 8097.5 | 36.4 | 9.0 | 45.4 | 74.0 | -28.6 | Peak | Horizontal |
| | 11072.5 | 35.9 | 13.3 | 49.2 | 74.0 | -24.8 | Peak | Horizontal |
| | 5105.5 | 36.4 | 3.5 | 39.9 | 74.0 | -34.1 | Peak | Vertical |
| | 7443.0 | 36.2 | 8.2 | 44.4 | 74.0 | -29.6 | Peak | Vertical |
| | 11072.5 | 36.2 | 13.3 | 49.5 | 74.0 | -24.5 | Peak | Vertical |
| Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)<br>Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB) | | | | | | | | |

**The Worse Case of Radiated Emission below 1GHz:**

| | |
|---|---|
| Site: WZ-AC1 | Time: 2023/05/16 - 16:57 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Ajin Fan |
| Probe: FMZB1519_0.009-30MHz | Polarity: Coaxial |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by Zigbee at channel 2480MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 0.019 | -20.755 | 39.131 | -62.768 | 42.013 | -59.886 | PK |
| 2 | * | 0.024 | -11.756 | 48.720 | -51.741 | 39.985 | -60.476 | PK |
| 3 | | 0.062 | -37.443 | 25.032 | -69.189 | 31.746 | -62.475 | PK |

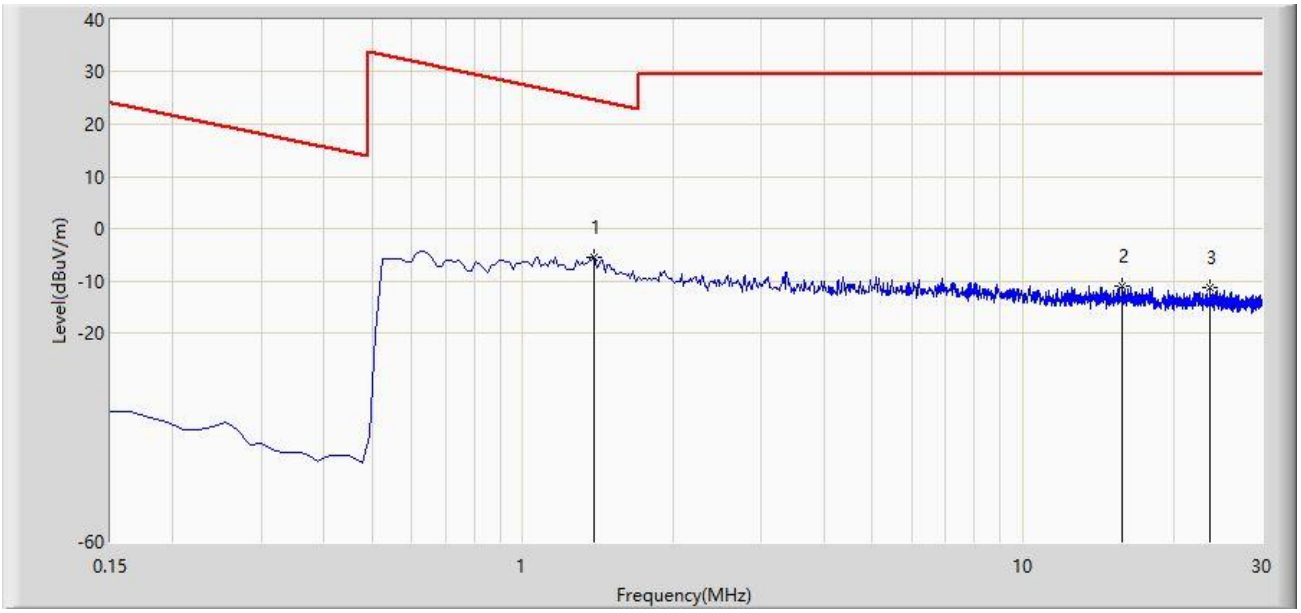
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

| | |
|---|---|
| Site: WZ-AC1 | Time: 2023/05/16 - 16:57 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Ajin Fan |
| Probe: FMZB1519_0.009-30MHz | Polarity: Coaxial |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by Zigbee at channel 2480MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 1.389 | -5.583 | 16.782 | -30.358 | 24.775 | -22.334 | PK |
| 2 | | 15.762 | -10.970 | 11.911 | -40.470 | 29.500 | -22.857 | PK |
| 3 | | 23.687 | -11.342 | 11.479 | -40.842 | 29.500 | -22.780 | PK |

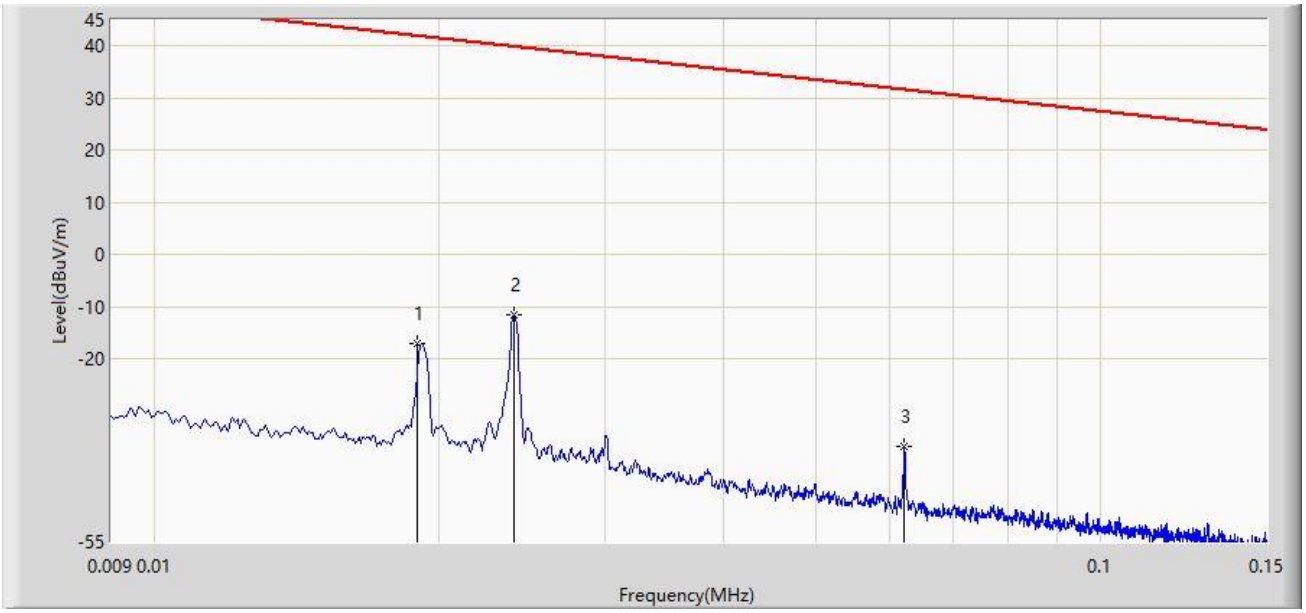
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

| | |
|---|---|
| Site: WZ-AC1 | Time: 2023/05/16 - 16:57 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Ajin Fan |
| Probe: FMZB1519_0.009-30MHz | Polarity: Coplanar |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by Zigbee at channel 2480MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 0.019 | -17.050 | 42.836 | -59.063 | 42.013 | -59.886 | PK |
| 2 | * | 0.024 | -11.398 | 49.078 | -51.383 | 39.985 | -60.476 | PK |
| 3 | | 0.062 | -36.638 | 25.837 | -68.384 | 31.746 | -62.475 | PK |

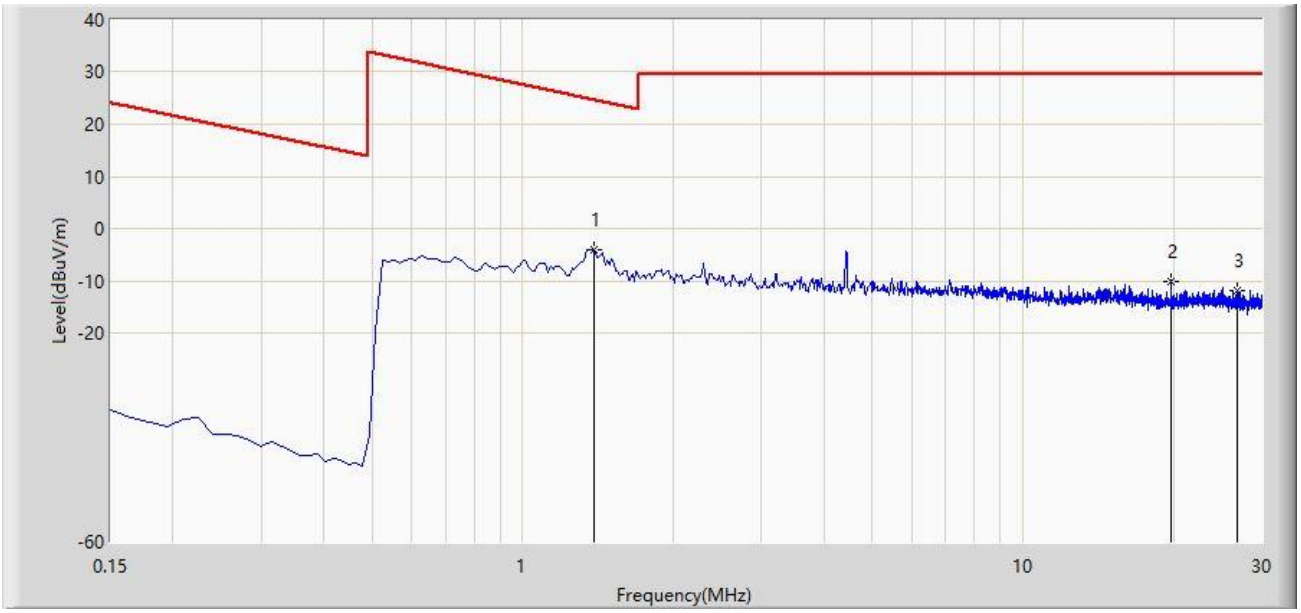
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

| | |
|---|---|
| Site: WZ-AC1 | Time: 2023/05/16 - 16:57 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Ajin Fan |
| Probe: FMZB1519_0.009-30MHz | Polarity: Coplanar |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by Zigbee at channel 2480MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 1.389 | -3.989 | 18.367 | -28.764 | 24.775 | -22.334 | PK |
| 2 | | 19.776 | -10.092 | 12.838 | -39.592 | 29.500 | -22.821 | PK |
| 3 | | 26.791 | -11.913 | 10.808 | -41.413 | 29.500 | -22.719 | PK |

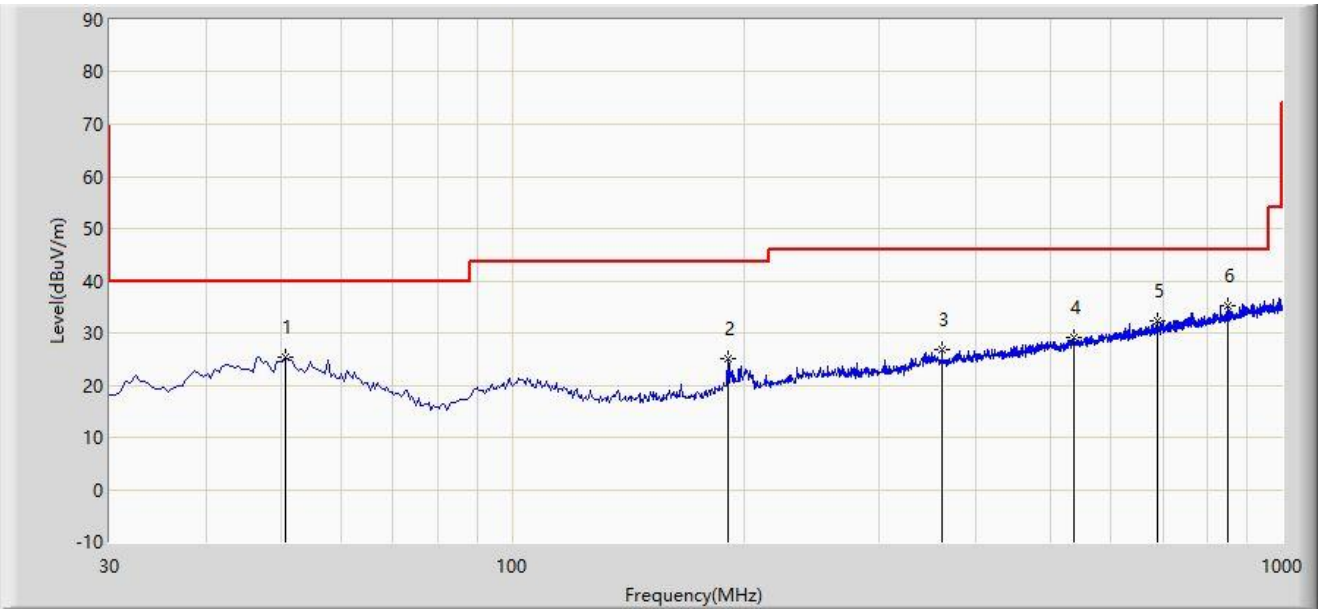
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

| | |
|---|---|
| Site: WZ-AC2 | Test Date: 2023-03-21 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Bob Zhang |
| Probe: VULB9162_30-7000MHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| **Test Mode**: Transmit by Zigbee at channel 2480MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 50.855 | 25.379 | 4.951 | -14.621 | 40.000 | 20.428 | PK |
| 2 | | 190.535 | 24.977 | 6.932 | -18.523 | 43.500 | 18.045 | PK |
| 3 | | 361.740 | 26.857 | 4.766 | -19.143 | 46.000 | 22.091 | PK |
| 4 | | 535.855 | 29.256 | 3.744 | -16.744 | 46.000 | 25.511 | PK |
| 5 | | 689.600 | 32.346 | 3.975 | -13.654 | 46.000 | 28.371 | PK |
| 6 | * | 851.590 | 35.081 | 4.570 | -10.919 | 46.000 | 30.511 | PK |

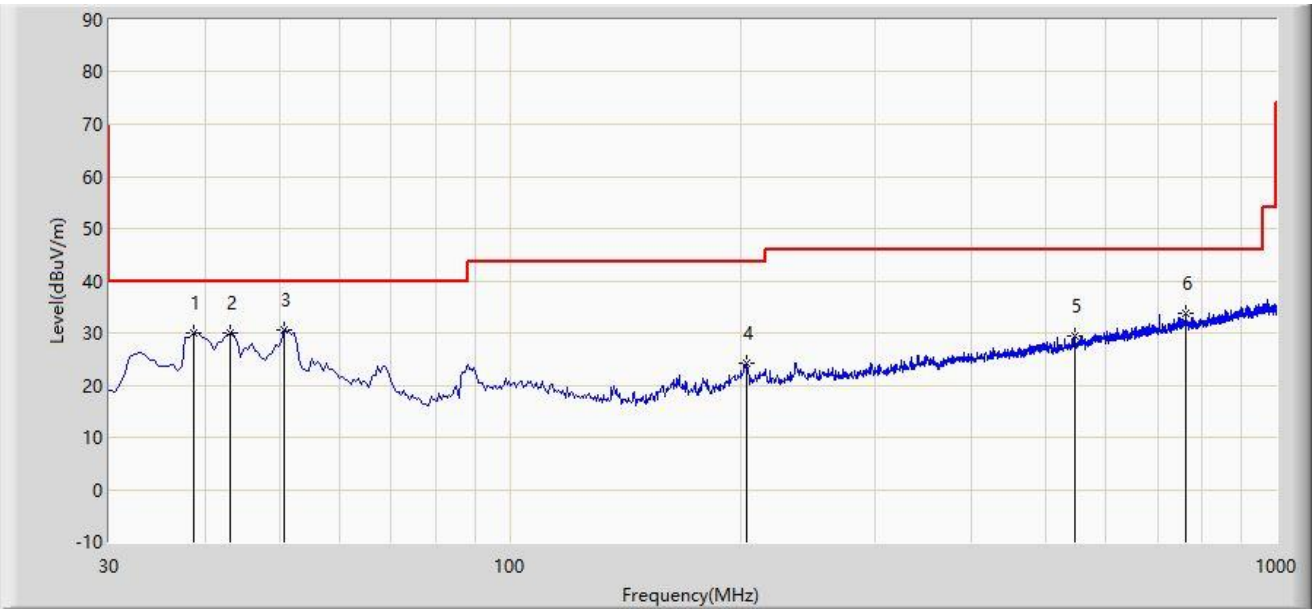
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

| | |
|---|---|
| Site: WZ-AC2 | Test Date: 2023-03-21 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Bob Zhang |
| Probe: VULB9162_30-7000MHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| **Test Mode**: Transmit by Zigbee at channel 2480MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 38.730 | 30.070 | 11.760 | -9.930 | 40.000 | 18.310 | PK |
| 2 | | 43.095 | 30.030 | 10.441 | -9.970 | 40.000 | 19.590 | PK |
| 3 | * | 50.855 | 30.571 | 10.143 | -9.429 | 40.000 | 20.428 | PK |
| 4 | | 204.115 | 24.177 | 5.771 | -19.323 | 43.500 | 18.406 | PK |
| 5 | | 546.040 | 29.352 | 3.298 | -16.648 | 46.000 | 26.054 | PK |
| 6 | | 763.320 | 33.690 | 4.190 | -12.310 | 46.000 | 29.500 | PK |

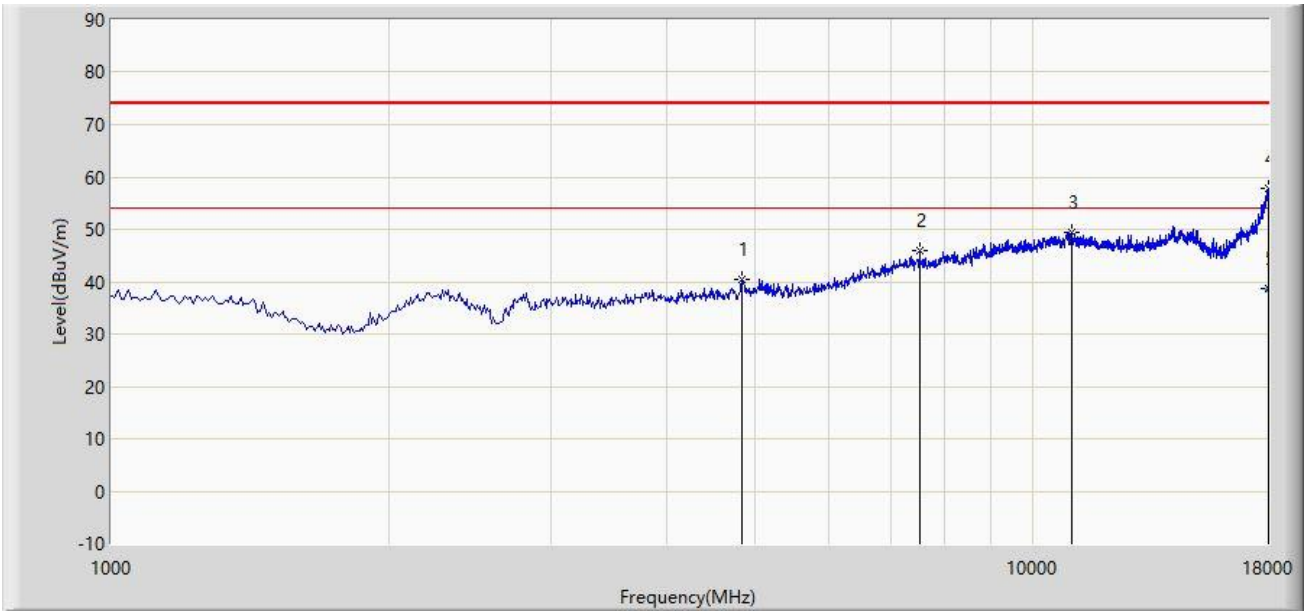
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

| | |
|---|---|
| Site: WZ-AC1 | Time: 2023/05/09 - 18:33 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Charles Zhang |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Note: Transmit by Zigbee at 2405MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 4825.000 | 40.343 | 37.587 | -33.657 | 74.000 | 2.756 | PK |
| 2 | | 7528.000 | 45.978 | 37.857 | -28.022 | 74.000 | 8.122 | PK |
| 3 | | 10996.000 | 49.525 | 35.906 | -24.475 | 74.000 | 13.619 | PK |
| 4 | | 17974.500 | 57.768 | 35.095 | -16.232 | 74.000 | 22.674 | PK |
| 5 | * | 17974.500 | 38.813 | 16.140 | -15.187 | 54.000 | 22.674 | AV |

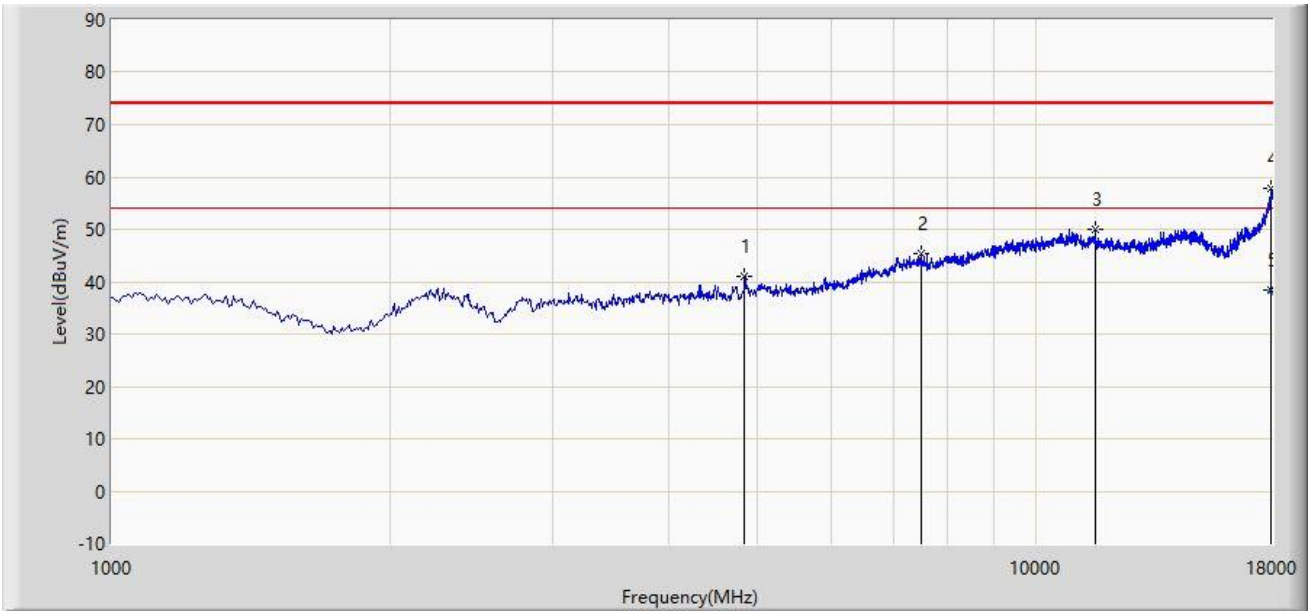
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

| | |
|---|---|
| Site: WZ-AC1 | Time: 2023/05/09 - 18:33 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Charles Zhang |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Note: Transmit by Zigbee at 2405MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 4833.500 | 40.886 | 38.125 | -33.114 | 74.000 | 2.761 | PK |
| 2 | | 7519.500 | 45.362 | 37.244 | -28.638 | 74.000 | 8.118 | PK |
| 3 | | 11582.500 | 50.141 | 37.503 | -23.859 | 74.000 | 12.638 | PK |
| 4 | | 17923.500 | 57.814 | 35.658 | -16.186 | 74.000 | 22.157 | PK |
| 5 | * | 17932.500 | 38.314 | 16.150 | -15.686 | 54.000 | 22.164 | AV |

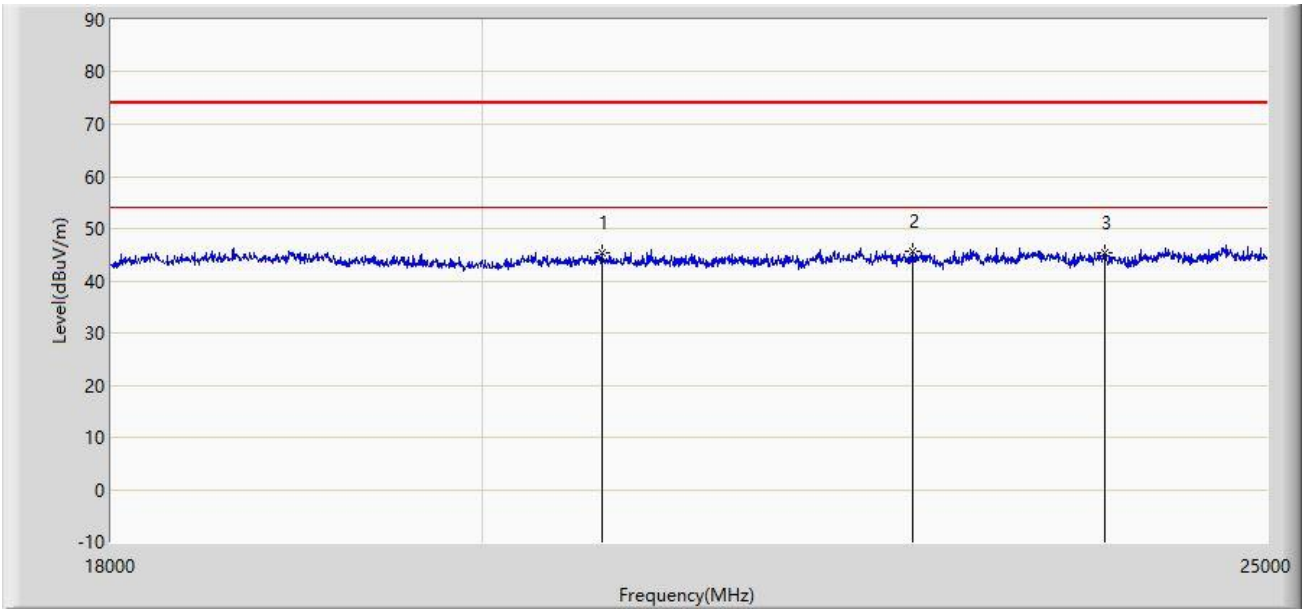
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

| | |
|---|---|
| Site: WZ-AC1 | Time: 2023/04/08 - 00:25 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Ajin Fan |
| Probe: BBHA9170_933_18-40GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| **Test Mode**: Transmit by Zigbee at channel 2480MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 20698.500 | 45.419 | 54.601 | -28.581 | 74.000 | -9.182 | PK |
| 2 | * | 22606.000 | 45.613 | 53.365 | -28.387 | 74.000 | -7.752 | PK |
| 3 | | 23880.000 | 45.470 | 52.172 | -28.530 | 74.000 | -6.701 | PK |

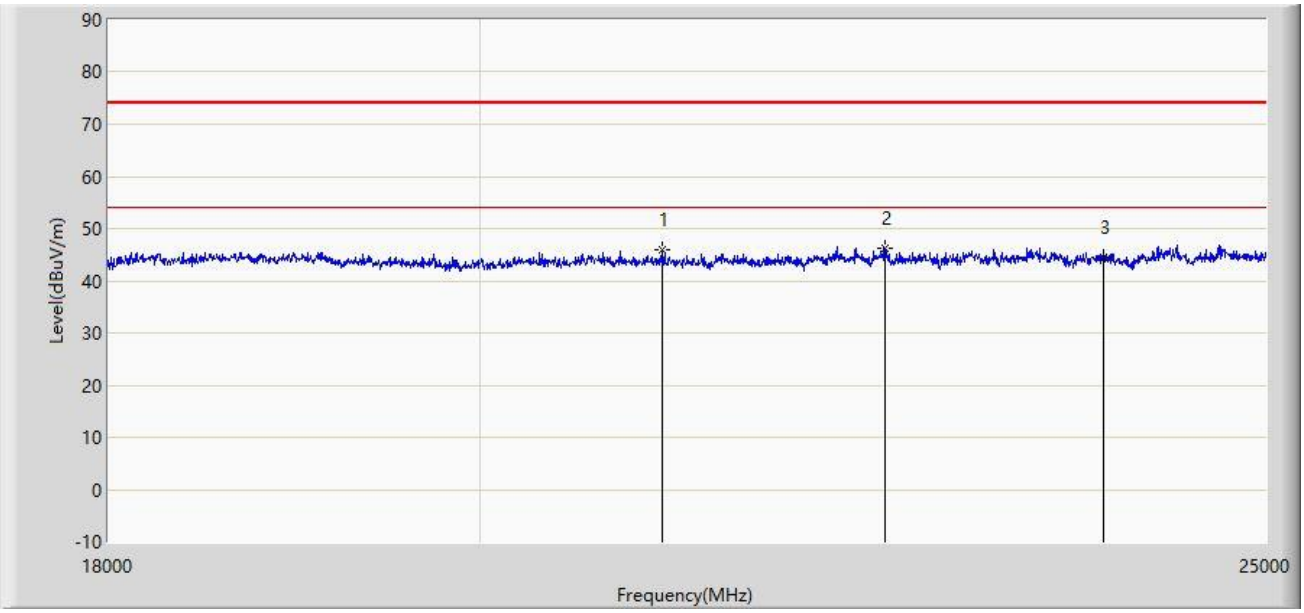
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

| | |
|---|---|
| Site: WZ-AC1 | Time: 2023/04/08 - 00:27 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Ajin Fan |
| Probe: BBHA9170_933_18-40GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| **Test Mode**: Transmit by Zigbee at channel 2480MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 21062.500 | 45.903 | 55.071 | -28.097 | 74.000 | -9.168 | PK |
| 2 | * | 22438.000 | 46.120 | 53.547 | -27.880 | 74.000 | -7.428 | PK |
| 3 | | 23880.000 | 44.500 | 51.202 | -29.500 | 74.000 | -6.701 | PK |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

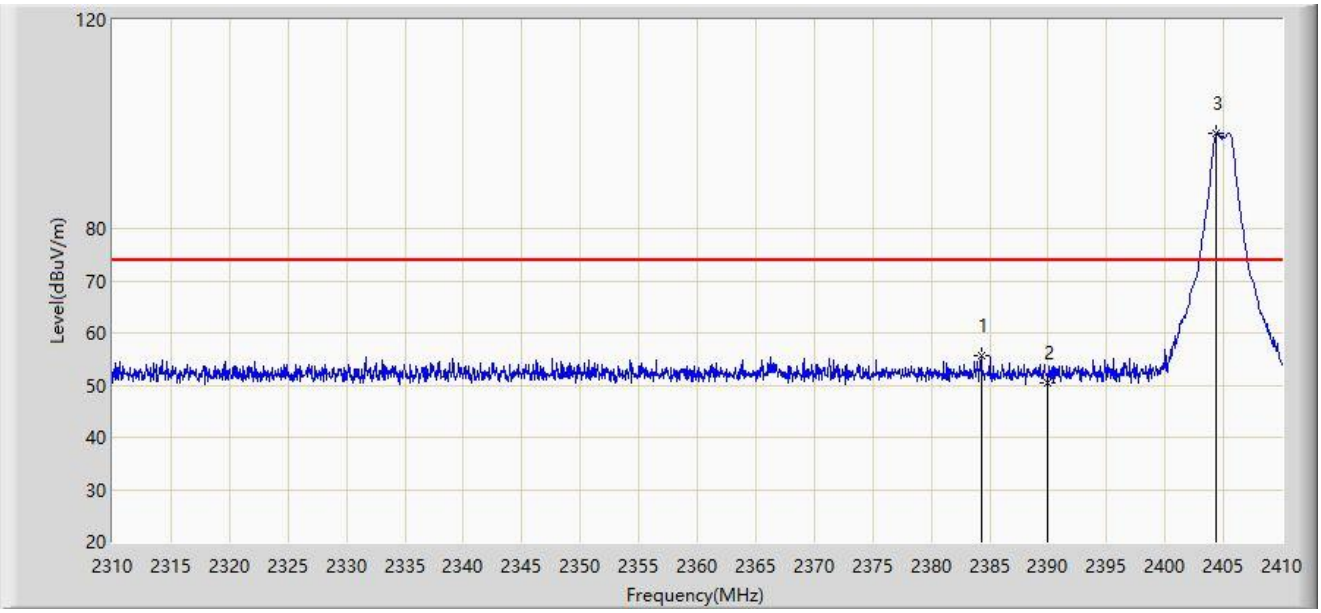
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

## A.7 Radiated Restricted Band Edge Test Result

**Filter Configuration 7#**

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2023-05-08 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Charles Zhang |
| Probe: BBHA9120D_1457_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by Zigbee at 2405MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Duty cycle Factor (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | * | 2384.250 | 55.590 | 24.596 | -18.409 | N/A | 74.000 | 30.994 | PK |
| | | 2384.250 | 35.590 | 24.596 | -18.409 | -20.00 | 54.000 | 30.994 | AV |
| 2 | | 2390.000 | 50.483 | 19.491 | -23.517 | N/A | 74.000 | 30.992 | PK |
| | | 2390.000 | 30.483 | 19.491 | -23.517 | -20.00 | 54.000 | 30.992 | AV |
| 3 | | 2404.400 | 98.178 | 67.198 | N/A | N/A | N/A | 30.980 | PK |
| | | 2404.400 | 78.178 | 67.198 | N/A | -20.00 | N/A | 30.980 | AV |

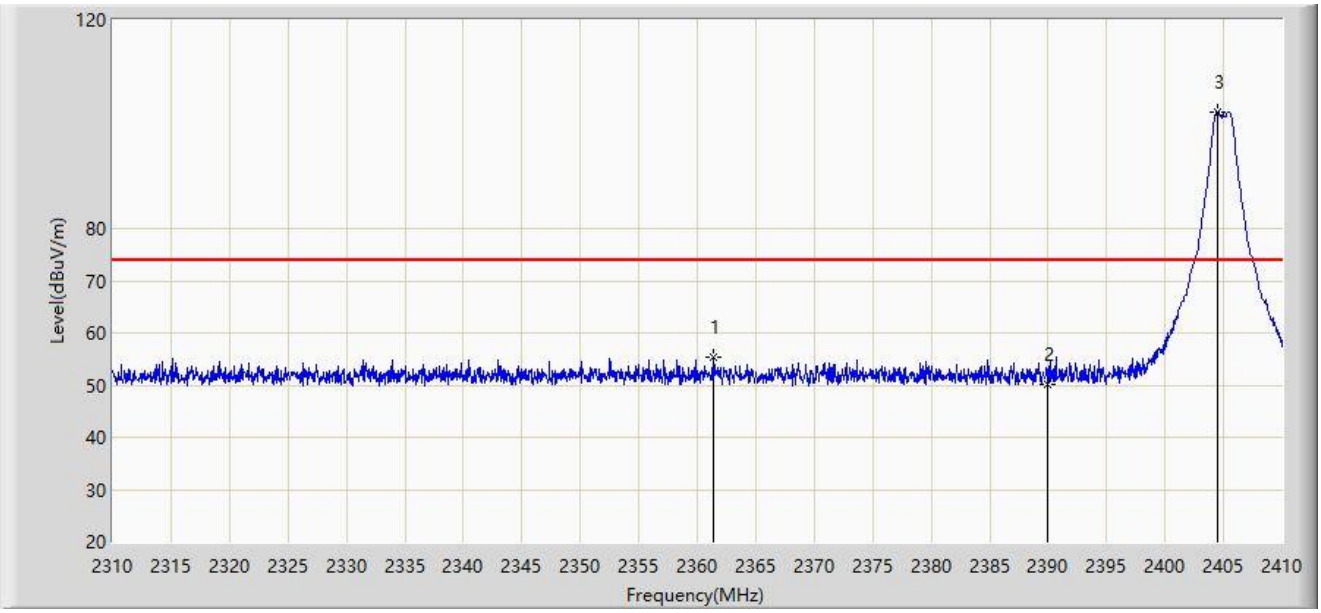
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = -20dB.

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2023-05-08 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Charles Zhang |
| Probe: BBHA9120D_1457_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by Zigbee at 2405MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Duty cycle Factor (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | * | 2361.400 | 55.402 | 24.307 | -18.598 | N/A | 74.000 | 31.095 | PK |
| | | 2361.400 | 35.402 | 24.307 | -18.598 | -20.00 | 54.000 | 31.095 | AV |
| 2 | | 2390.000 | 50.251 | 19.259 | -23.749 | N/A | 74.000 | 30.992 | PK |
| | | 2390.000 | 30.251 | 19.259 | -23.749 | -20.00 | 54.000 | 30.992 | AV |
| 3 | | 2404.500 | 102.265 | 71.285 | N/A | N/A | N/A | 30.980 | PK |
| | | 2404.500 | 82.265 | 71.285 | N/A | -20.00 | N/A | 30.980 | AV |

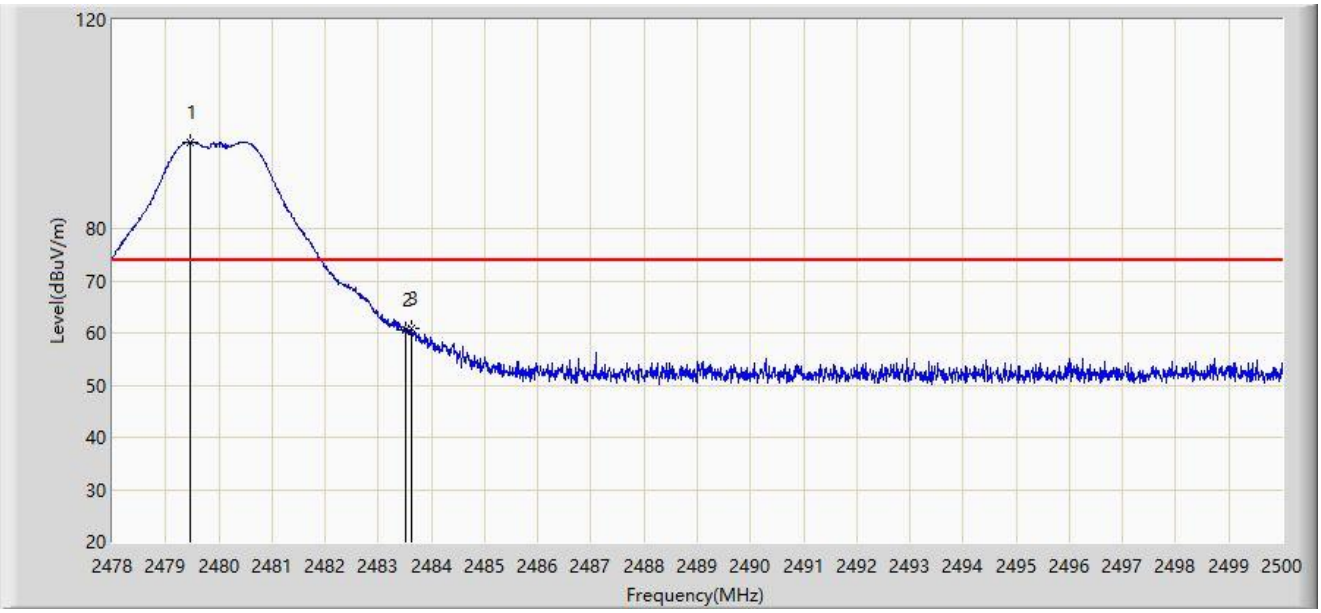
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = 20*Log (Duty Cycle).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2023-05-08 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Charles Zhang |
| Probe: BBHA9120D_1457_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by Zigbee at 2480MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Duty cycle Factor (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2479.452 | 96.638 | 65.740 | N/A | N/A | N/A | 30.898 | PK |
| | | 2479.452 | 76.638 | 65.740 | N/A | -20.00 | N/A | 30.898 | AV |
| 2 | | 2483.500 | 60.484 | 29.593 | -13.516 | N/A | 74.000 | 30.892 | PK |
| | | 2483.500 | 40.484 | 29.593 | -13.516 | -20.00 | 54.000 | 30.892 | AV |
| 3 | * | 2483.621 | 60.760 | 29.869 | -13.240 | N/A | 74.000 | 30.892 | PK |
| | | 2483.621 | 40.760 | 29.869 | -13.240 | -20.00 | 54.000 | 30.892 | AV |

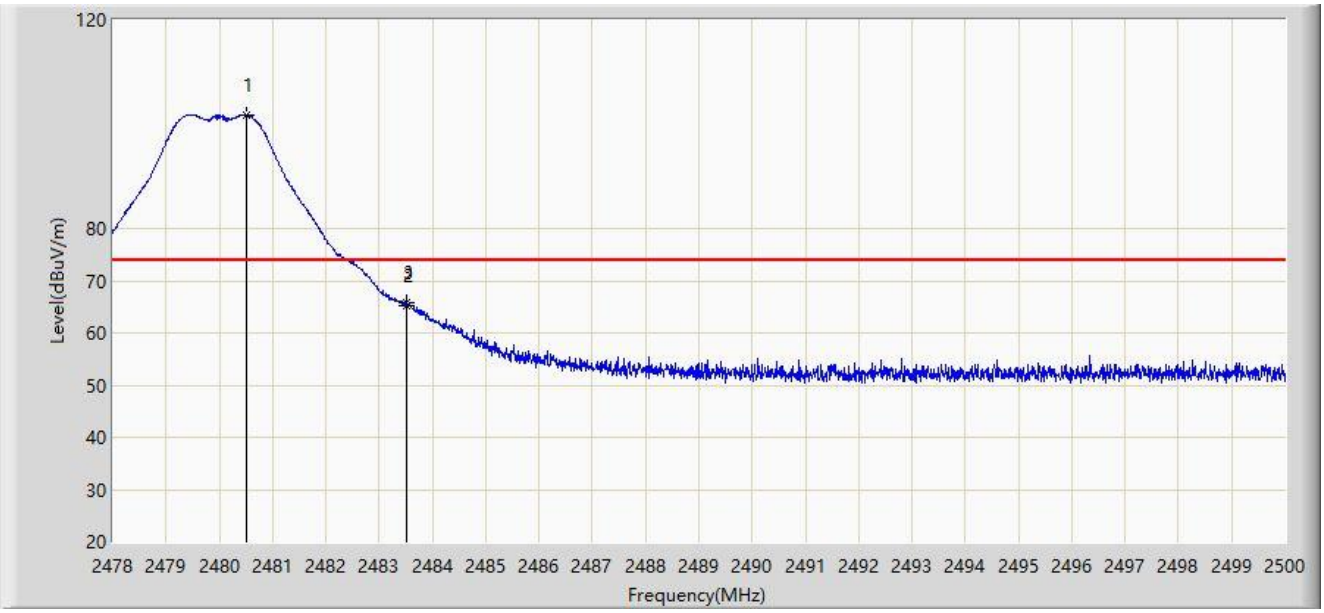
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = 20*Log (Duty Cycle).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2023-05-08 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Charles Zhang |
| Probe: BBHA9120D_1457_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by Zigbee at 2480MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Duty cycle Factor (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2480.497 | 101.701 | 70.805 | N/A | N/A | N/A | 30.896 | PK |
| | | 2480.497 | 81.701 | 70.805 | N/A | -20.00 | N/A | 30.896 | AV |
| 2 | * | 2483.500 | 65.234 | 34.343 | -8.766 | N/A | 74.000 | 30.892 | PK |
| | | 2483.500 | 45.234 | 34.343 | -8.766 | -20.00 | 54.000 | 30.892 | AV |
| | | 2483.511 | 65.920 | 35.029 | -8.080 | N/A | 74.000 | 30.892 | PK |
| | | 2483.511 | 45.920 | 35.029 | -8.080 | -20.00 | 54.000 | 30.892 | AV |

Note 1: " * ", means this data is the worst emission level.

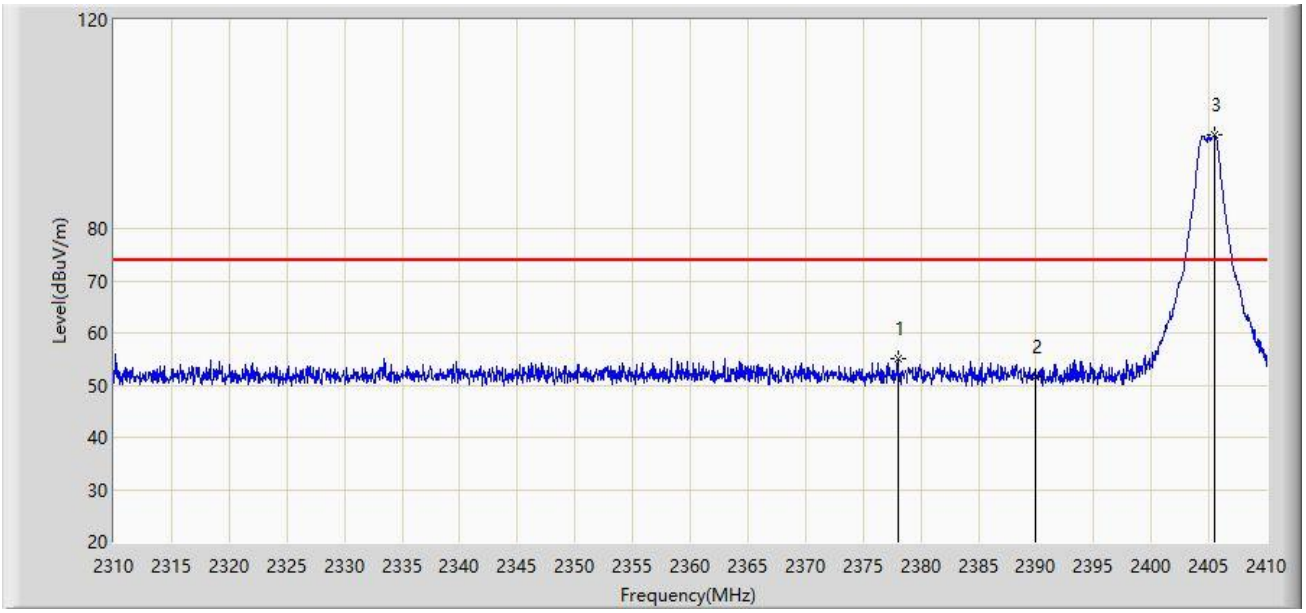
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = 20*Log (Duty Cycle).

**Filter Configuration 8#**

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2023-05-08 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Carl Jiang |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by Zigbee at 2405MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Duty cycle Factor (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | * | 2378.050 | 55.129 | 24.108 | -18.871 | N/A | 74.000 | 31.021 | PK |
| | | 2378.050 | 35.129 | 24.108 | -18.871 | -20.00 | 54.000 | 31.021 | AV |
| 2 | | 2390.000 | 51.526 | 20.534 | -22.474 | N/A | 74.000 | 30.992 | PK |
| | | 2390.000 | 31.526 | 20.534 | -22.474 | -20.00 | 54.000 | 30.992 | AV |
| 3 | | 2405.450 | 97.837 | 66.860 | N/A | N/A | N/A | 30.976 | PK |
| | | 2405.450 | 77.837 | 66.860 | N/A | -20.00 | N/A | 30.976 | AV |

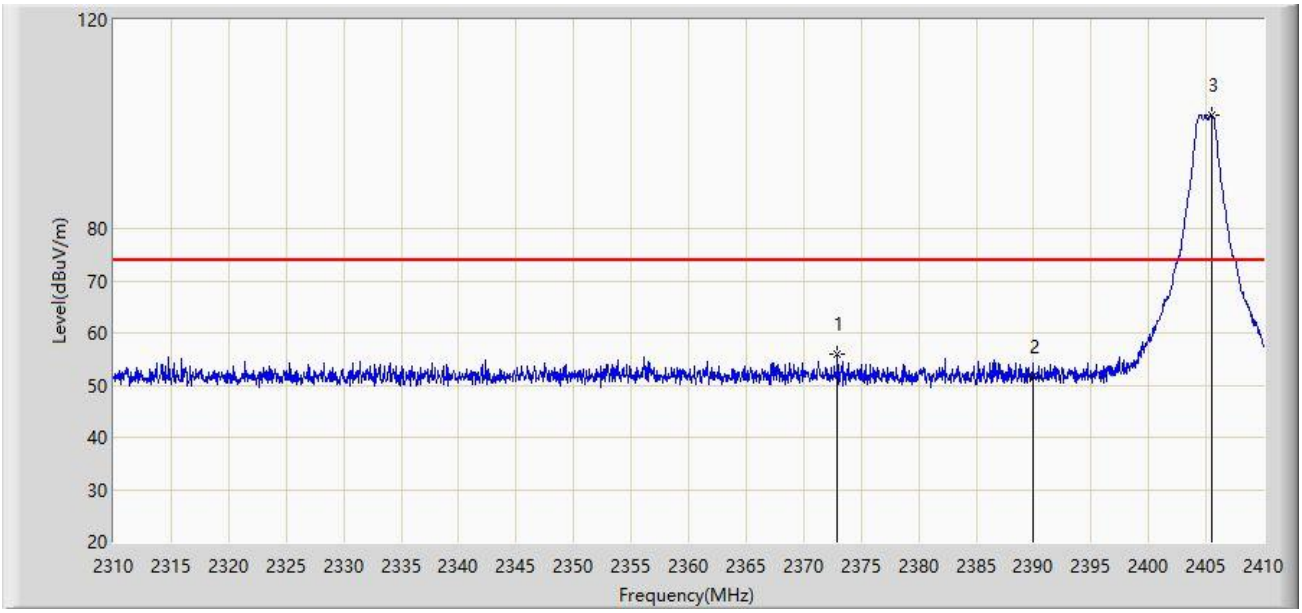
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = 20*Log (Duty Cycle).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2023-05-08 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Carl Jiang |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by Zigbee at 2405MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Duty cycle Factor (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | * | 2372.950 | 56.039 | 24.993 | -17.961 | N/A | 74.000 | 31.046 | PK |
| | | 2372.950 | 36.039 | 24.993 | -17.961 | -20.00 | 54.000 | 31.046 | AV |
| 2 | | 2390.000 | 51.483 | 20.491 | -22.517 | N/A | 74.000 | 30.992 | PK |
| | | 2390.000 | 31.483 | 20.491 | -22.517 | -20.00 | 54.000 | 30.992 | AV |
| 3 | | 2405.450 | 101.828 | 70.851 | N/A | N/A | N/A | 30.976 | PK |
| | | 2405.450 | 81.828 | 70.851 | N/A | -20.00 | N/A | 30.976 | AV |

Note 1: " * ", means this data is the worst emission level.

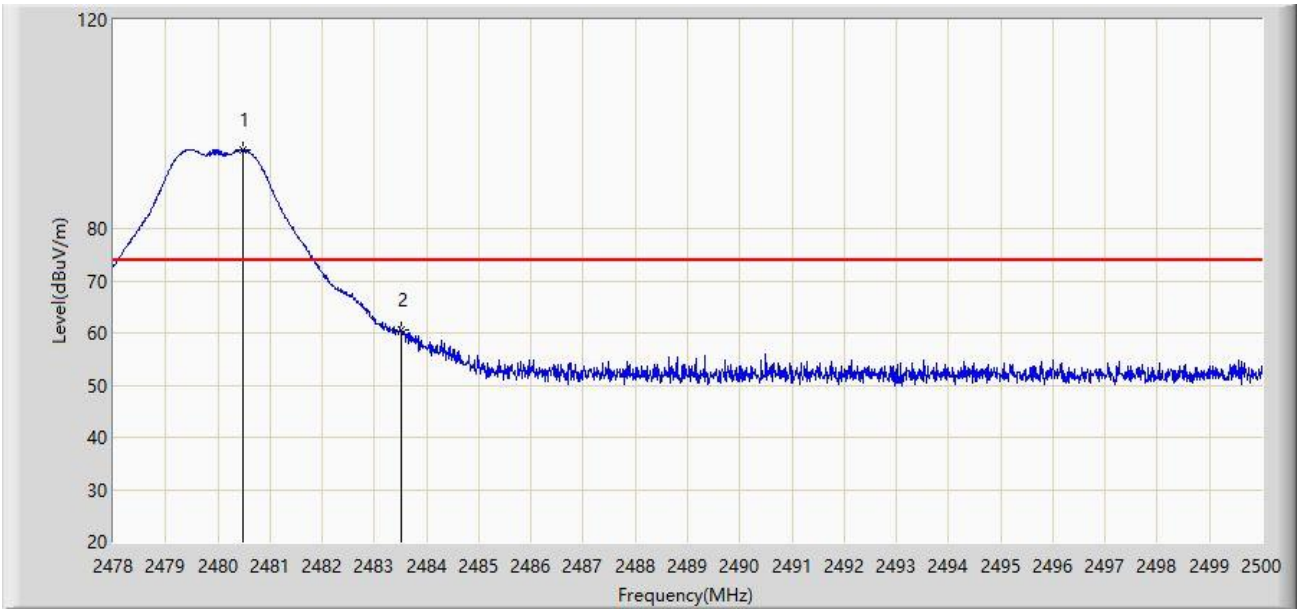
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = 20*Log (Duty Cycle).

**Filter Configuration 9#**

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2023-05-08 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Carl Jiang |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by Zigbee at 2480MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Duty cycle Factor (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2480.486 | 95.017 | 64.121 | N/A | N/A | N/A | 30.896 | PK |
| | | 2480.486 | 75.017 | 64.121 | N/A | -20.00 | N/A | 30.896 | AV |
| 2 | * | 2483.500 | 60.640 | 29.749 | -13.360 | N/A | 74.000 | 30.892 | PK |
| | | 2483.500 | 40.640 | 29.749 | -13.360 | -20.00 | 54.000 | 30.892 | AV |

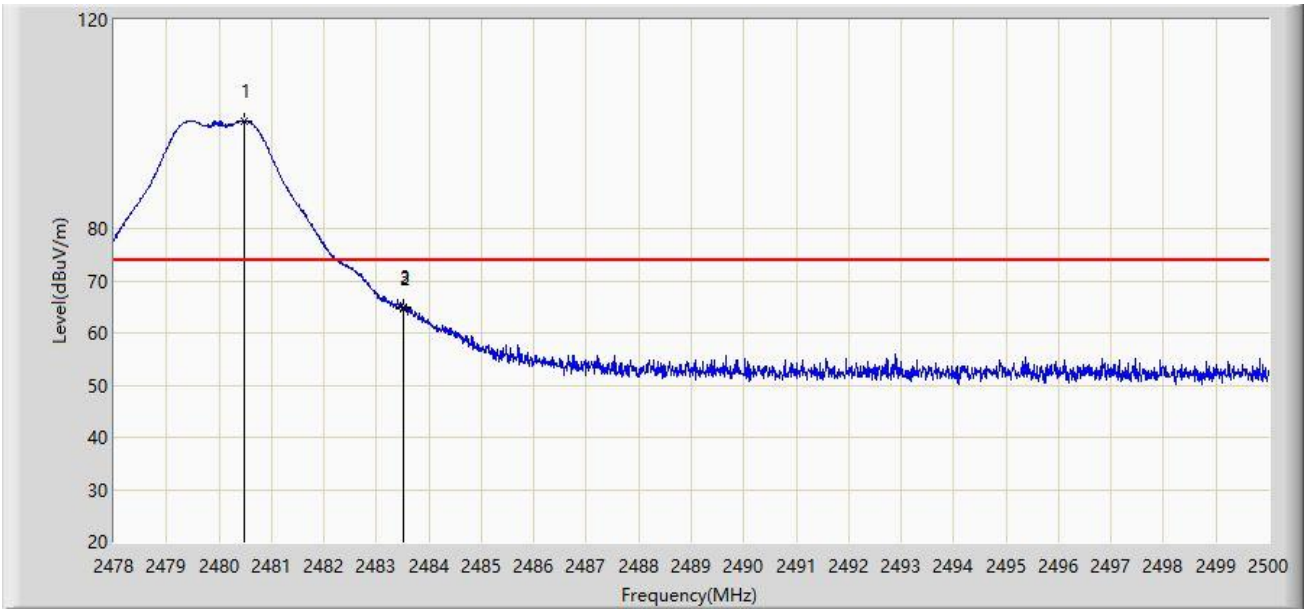
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = 20*Log (Duty Cycle).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2023-05-08 |
| Limit: FCC_2.4G_RE(3m) | Engineer: Carl Jiang |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by Zigbee at 2480MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Duty cycle Factor (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2480.486 | 100.609 | 69.713 | N/A | N/A | N/A | 30.896 | PK |
| | | 2480.486 | 80.609 | 69.713 | N/A | -20.00 | N/A | 30.896 | AV |
| 2 | | 2483.500 | 64.734 | 33.843 | -9.266 | N/A | 74.000 | 30.892 | PK |
| | | 2483.500 | 44.734 | 33.843 | -9.266 | -20.00 | 54.000 | 30.892 | AV |
| 3 | * | 2483.511 | 65.018 | 34.127 | -8.982 | N/A | 74.000 | 30.892 | PK |
| | | 2483.511 | 45.018 | 34.127 | -8.982 | -20.00 | 54.000 | 30.892 | AV |

Note 1: " * ", means this data is the worst emission level.

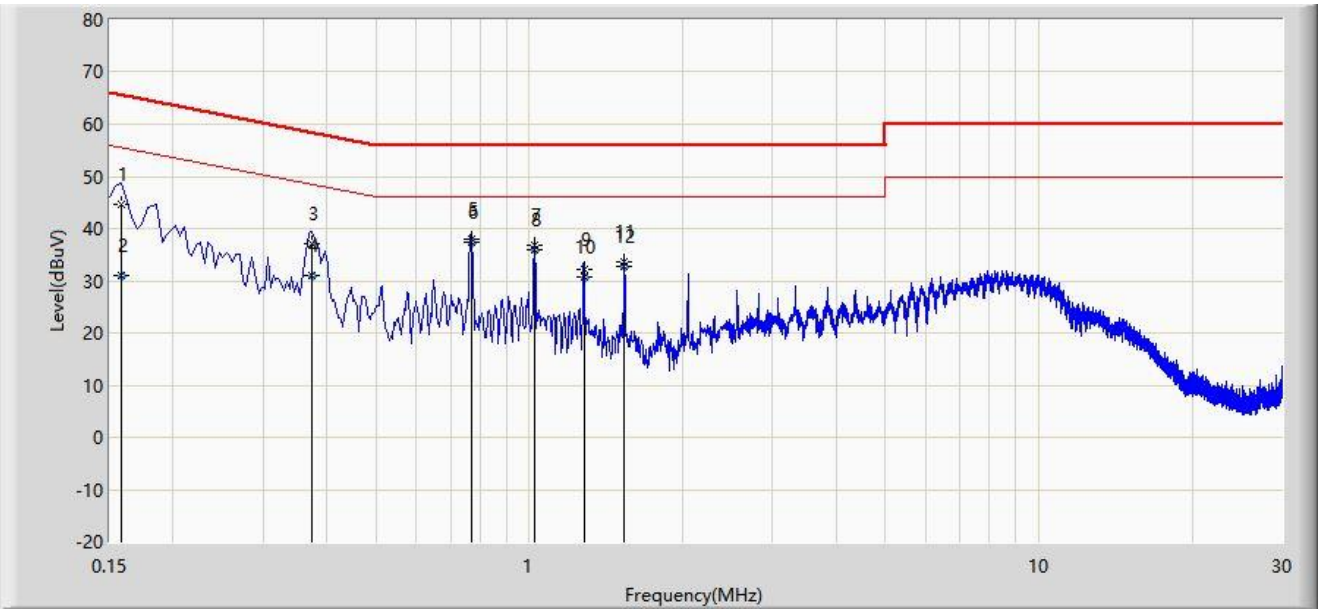
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = 20*Log (Duty Cycle).

### A.8 AC Conducted Emissions Test Result

| | |
|---|---|
| Site: WZ-SR2 | Test Date: 2023-03-20 |
| Limit: FCC_Part15.107_CE_AC Power_Class B | Engineer: Alin Zhou |
| Probe: ENV216_101683_Filter Off | Polarity: Line |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by Zigbee at 2480MHz | |



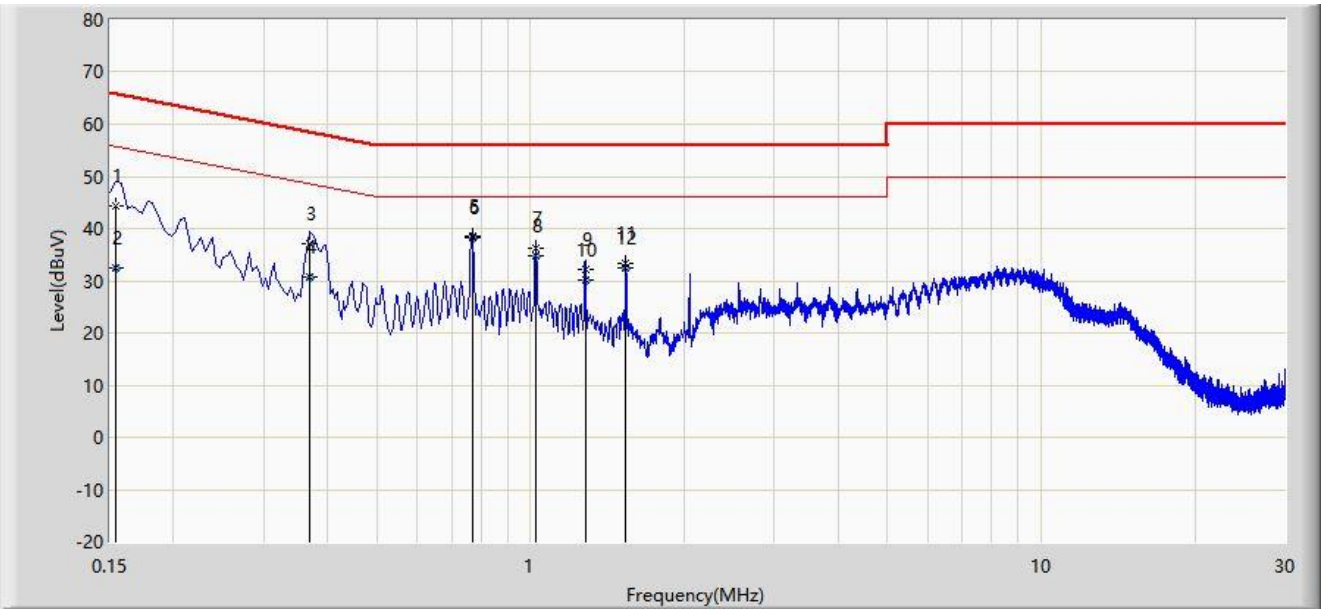

| No | Mark | Frequency (MHz) | Measure Level (dBµV) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 0.158 | 44.592 | 34.987 | -20.976 | 65.568 | 9.606 | QP |
| 2 | | 0.158 | 31.094 | 21.489 | -24.474 | 55.568 | 9.606 | AV |
| 3 | | 0.374 | 37.061 | 27.376 | -21.351 | 58.412 | 9.684 | QP |
| 4 | | 0.374 | 31.079 | 21.395 | -17.332 | 48.412 | 9.684 | AV |
| 5 | | 0.770 | 37.871 | 27.987 | -18.129 | 56.000 | 9.885 | QP |
| 6 | * | 0.770 | 37.310 | 27.425 | -8.690 | 46.000 | 9.885 | AV |
| 7 | | 1.022 | 36.875 | 26.886 | -19.125 | 56.000 | 9.990 | QP |
| 8 | | 1.022 | 35.869 | 25.879 | -10.131 | 46.000 | 9.990 | AV |
| 9 | | 1.282 | 32.242 | 22.249 | -23.758 | 56.000 | 9.993 | QP |
| 10 | | 1.282 | 30.717 | 20.724 | -15.283 | 46.000 | 9.993 | AV |
| 11 | | 1.538 | 33.648 | 23.651 | -22.352 | 56.000 | 9.997 | QP |
| 12 | | 1.538 | 32.887 | 22.890 | -13.113 | 46.000 | 9.997 | AV |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV) = Reading Level (dBµV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

| | |
|---|---|
| Site: WZ-SR2 | Test Date: 2023-03-20 |
| Limit: FCC_Part15.107_CE_AC Power_Class B | Engineer: Alin Zhou |
| Probe: ENV216_101683_Filter Off | Polarity: Neutral |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by Zigbee at 2480MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBµV) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 0.154 | 44.466 | 34.897 | -21.315 | 65.781 | 9.569 | QP |
| 2 | | 0.154 | 32.320 | 22.751 | -23.461 | 55.781 | 9.569 | AV |
| 3 | | 0.370 | 37.139 | 27.460 | -21.362 | 58.501 | 9.679 | QP |
| 4 | | 0.370 | 30.699 | 21.021 | -17.802 | 48.501 | 9.679 | AV |
| 5 | | 0.770 | 38.692 | 28.813 | -17.308 | 56.000 | 9.880 | QP |
| 6 | * | 0.770 | 38.134 | 28.254 | -7.866 | 46.000 | 9.880 | AV |
| 7 | | 1.022 | 36.327 | 26.327 | -19.673 | 56.000 | 10.000 | QP |
| 8 | | 1.022 | 34.778 | 24.778 | -11.222 | 46.000 | 10.000 | AV |
| 9 | | 1.282 | 32.037 | 22.036 | -23.963 | 56.000 | 10.000 | QP |
| 10 | | 1.282 | 30.182 | 20.182 | -15.818 | 46.000 | 10.000 | AV |
| 11 | | 1.538 | 33.255 | 23.253 | -22.745 | 56.000 | 10.002 | QP |
| 12 | | 1.538 | 32.330 | 22.328 | -13.670 | 46.000 | 10.002 | AV |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV) = Reading Level (dBµV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

## Appendix B – Test Setup Photograph

Refer to “2209RSU069-UT” file.

## Appendix C – EUT Photograph

Refer to “2209RSU069-UE” file.

The End