

# **Annex B**

## **ZigBee Test Result**

Model No.: APEX0679

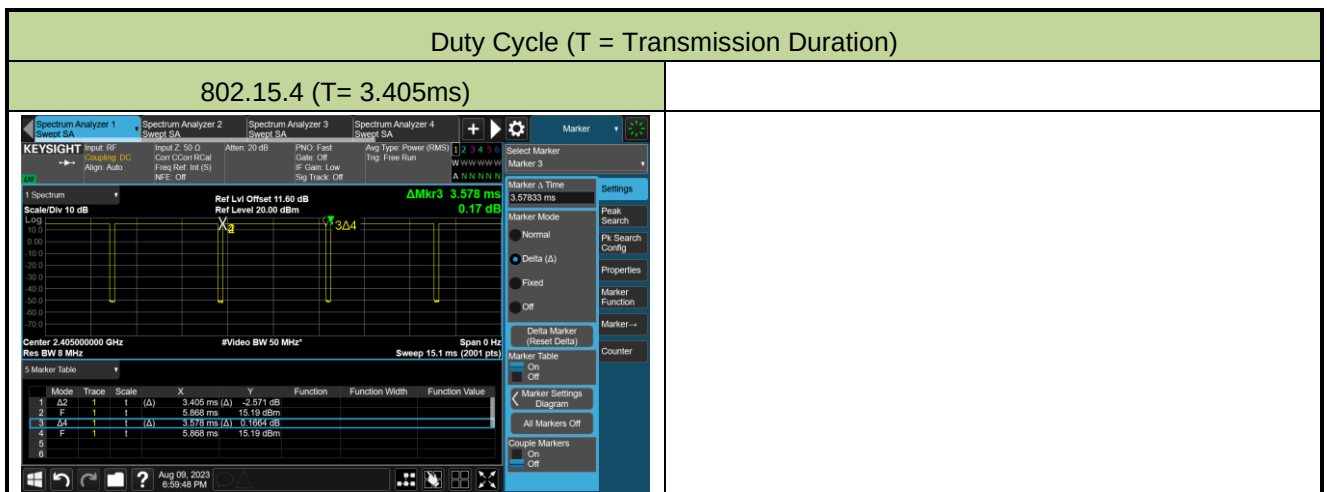
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## 1. Duty Cycle Measurement Test Result

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2023-08-09 |               |           |

|           |            |
|-----------|------------|
| Test Mode | Duty Cycle |
| 802.15.4  | 95.16%     |



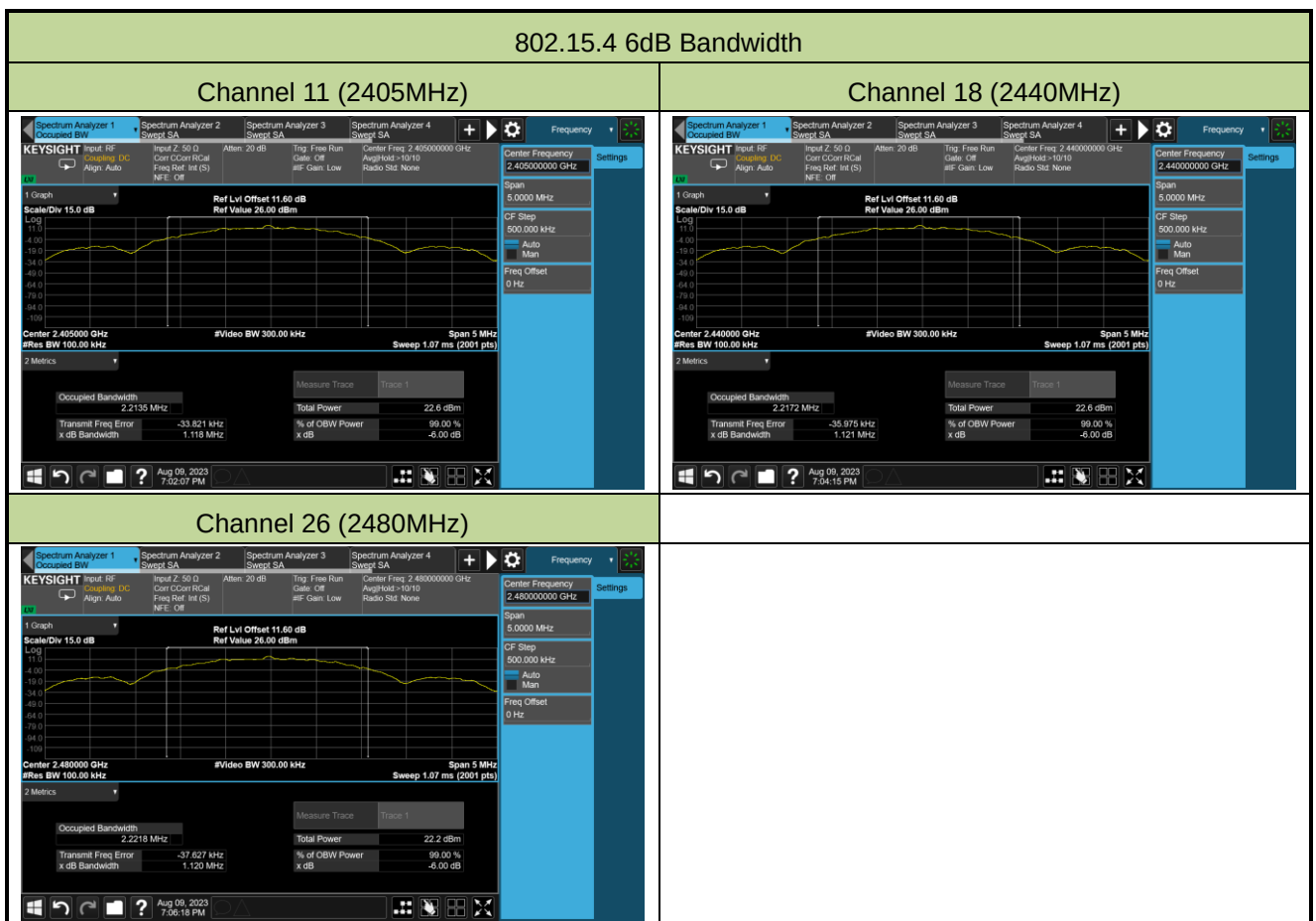
Note 1: This duty cycle was only suitable for continuous transmission of signals via commands.

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.

## 2. 6dB Bandwidth Measurement Test Result

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2023-08-09 |               |           |

| Test Mode | Modulation Mode | Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) | Result |
|-----------|-----------------|-------------|-----------------|---------------------|-------------|--------|
| 802.15.4  | O-QPSK          | 11          | 2405            | 1.118               | $\geq 0.5$  | Pass   |
| 802.15.4  | O-QPSK          | 18          | 2440            | 1.121               | $\geq 0.5$  | Pass   |
| 802.15.4  | O-QPSK          | 26          | 2480            | 1.120               | $\geq 0.5$  | Pass   |



### 3. Output Power Measurement Test Result

|           |            |                      |           |
|-----------|------------|----------------------|-----------|
| Test Site | WZ-SR5     | Test Engineer        | Lynn Yang |
| Test Date | 2023-12-26 | Filter Configuration | Filter 4# |

#### 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        | 13.78            | ≤ 30.00     | Pass   |
| 802.15.4  | O-QPSK          | 18          | 2440        | 13.42            | ≤ 30.00     | Pass   |
| 802.15.4  | O-QPSK          | 26          | 2480        | 12.80            | ≤ 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        | 13.70               | ≤ 30.00     | Pass   |
| 802.15.4  | O-QPSK          | 18          | 2440        | 12.35               | ≤ 30.00     | Pass   |
| 802.15.4  | O-QPSK          | 26          | 2480        | 12.69               | ≤ 30.00     | Pass   |

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|           |            |                      |           |
|-----------|------------|----------------------|-----------|
| Test Site | WZ-SR5     | Test Engineer        | Lynn Yang |
| Test Date | 2023-12-26 | Filter Configuration | Filter 5# |

**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        | 12.87            | ≤ 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        | 12.75               | ≤ 30.00     | Pass   |



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|           |            |                      |           |
|-----------|------------|----------------------|-----------|
| Test Site | WZ-SR5     | Test Engineer        | Lynn Yang |
| Test Date | 2023-12-26 | Filter Configuration | Filter 6# |

**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        | 11.54            | ≤ 30.00     | Pass   |

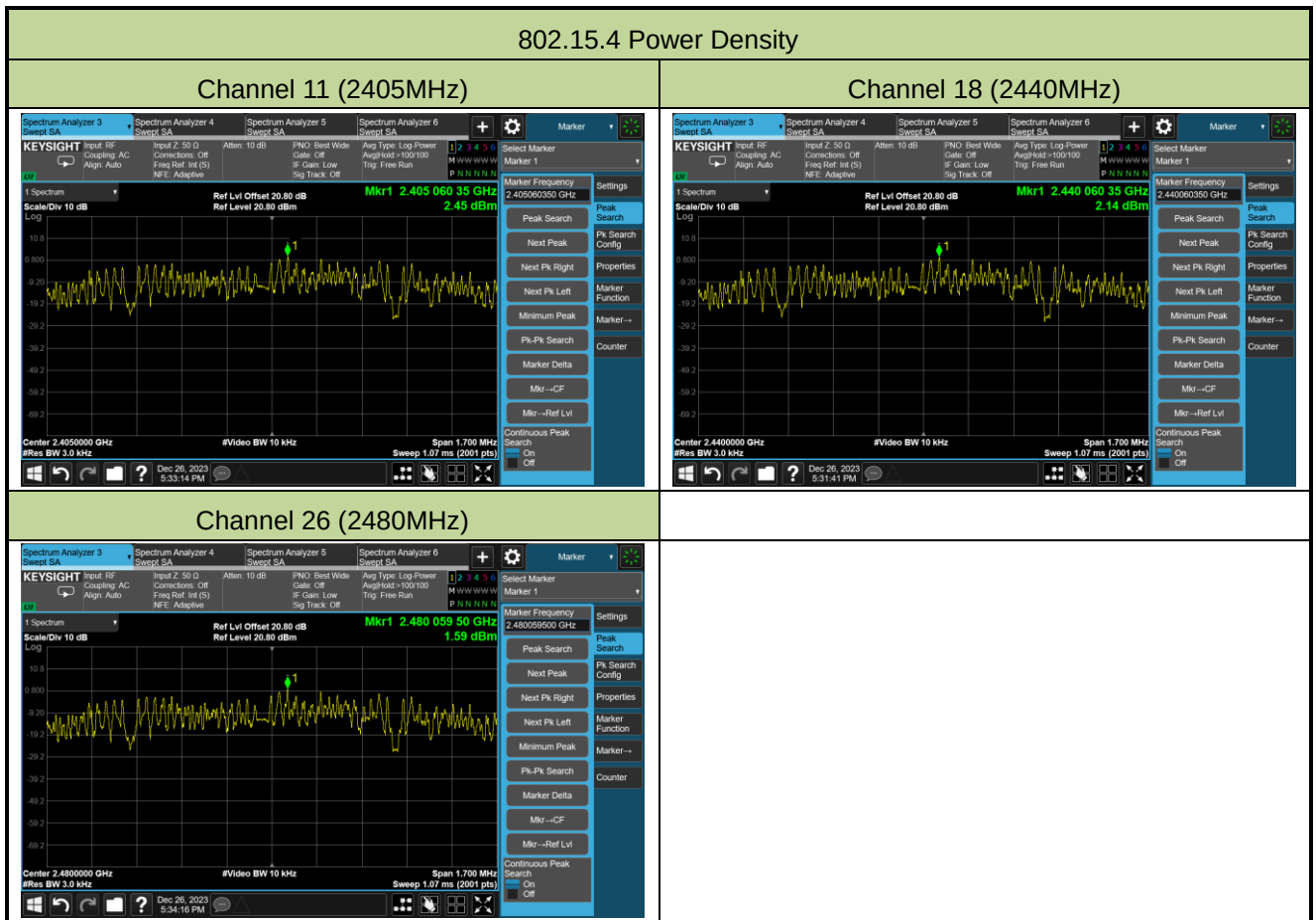
**Test Result of Average Output Power (Reporting Only)**

| Test Mode | Modulation Mode | Channel No. | Freq. (MHz) | Average Power (dBm) | Limit (dBm) | Result |
|-----------|-----------------|-------------|-------------|---------------------|-------------|--------|
| 802.15.4  | O-QPSK          | 26          | 2480        | 11.39               | ≤ 30.00     | Pass   |

#### 4. Power Spectral Density Measurement Test Result

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2023-12-26 |               |           |

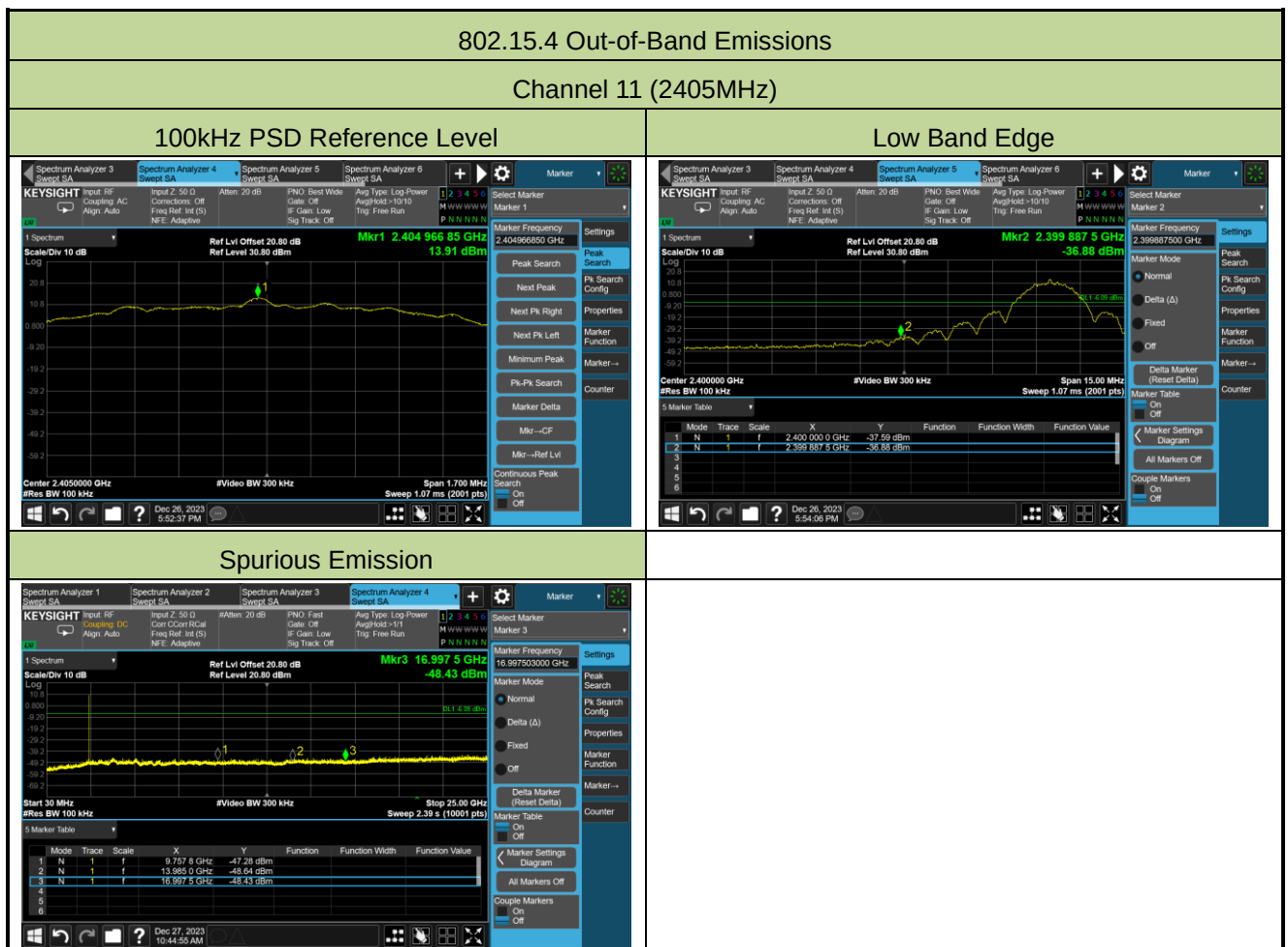
| Test Mode | Modulation Mode | Channel No. | Frequency (MHz) | PK PSD (dBm / 3kHz) | Limit (dBm / 3kHz) | Result |
|-----------|-----------------|-------------|-----------------|---------------------|--------------------|--------|
| 802.15.4  | O-QPSK          | 11          | 2405            | 2.45                | ≤ 8.00             | Pass   |
| 802.15.4  | O-QPSK          | 18          | 2440            | 2.14                | ≤ 8.00             | Pass   |
| 802.15.4  | O-QPSK          | 26          | 2480            | 1.59                | ≤ 8.00             | Pass   |



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

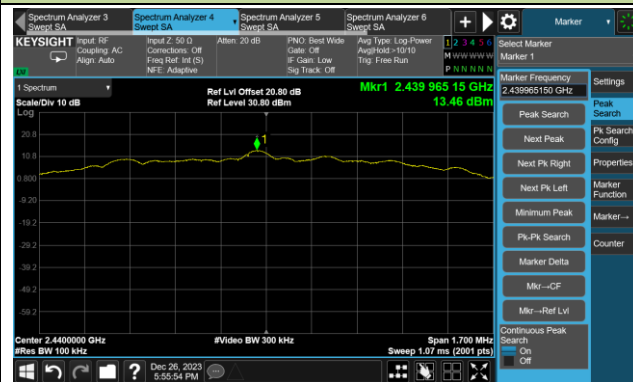
|           |                       |                      |           |
|-----------|-----------------------|----------------------|-----------|
| Test Site | WZ-SR5                | Test Engineer        | Lynn Yang |
| Test Date | 2023-12-26~2023-12-27 | Filter Configuration | Filter 4# |

| 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   |

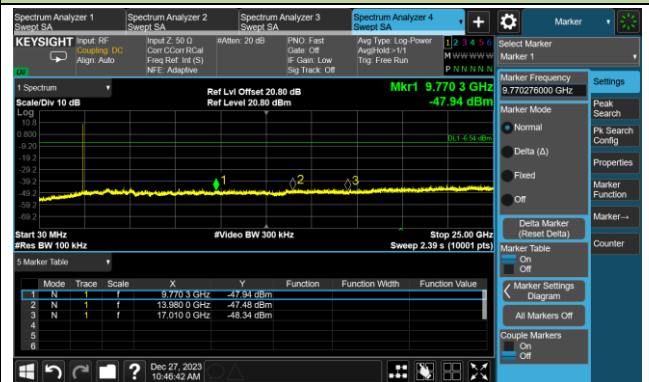


## Channel 18 (2440MHz)

### 100kHz PSD Reference Level

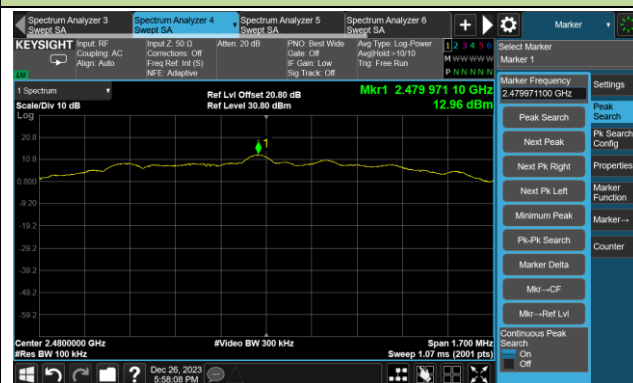


### Spurious Emission



## Channel 26 (2480MHz)

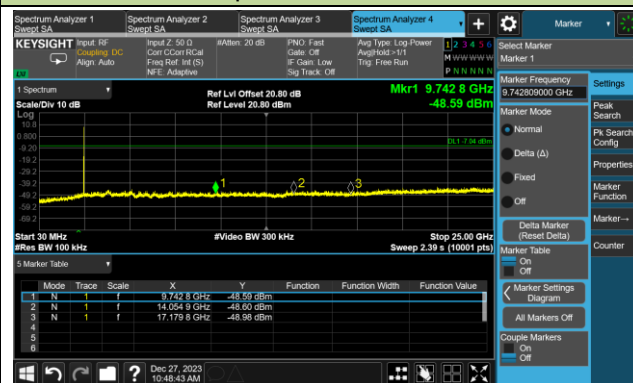
### 100kHz PSD Reference Level



### High Band Edge



### Spurious Emission



|           |            |                      |           |
|-----------|------------|----------------------|-----------|
| Test Site | WZ-SR5     | Test Engineer        | Lynn Yang |
| Test Date | 2023-12-27 | Filter Configuration | Filter 5# |

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

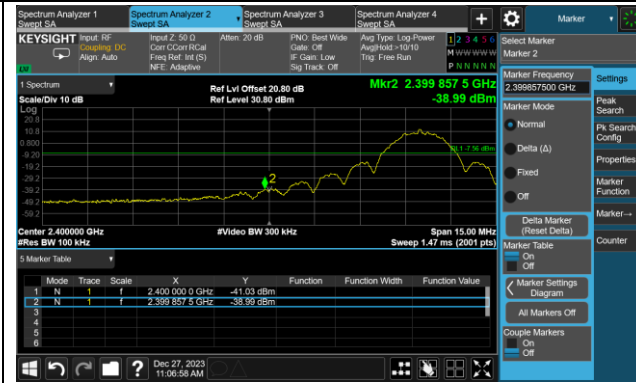
802.15.4 Out-of-Band Emissions

Channel 11 (2405MHz)

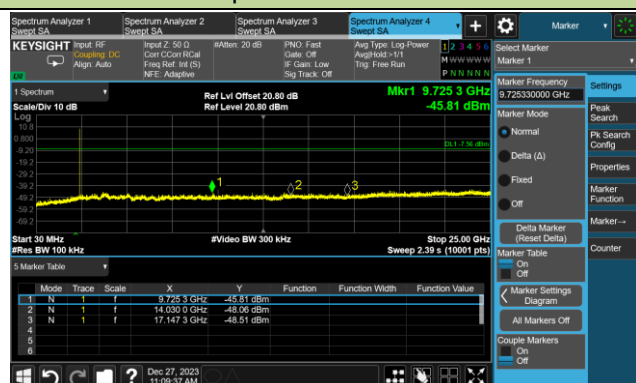
100kHz PSD Reference Level

Low Band Edge



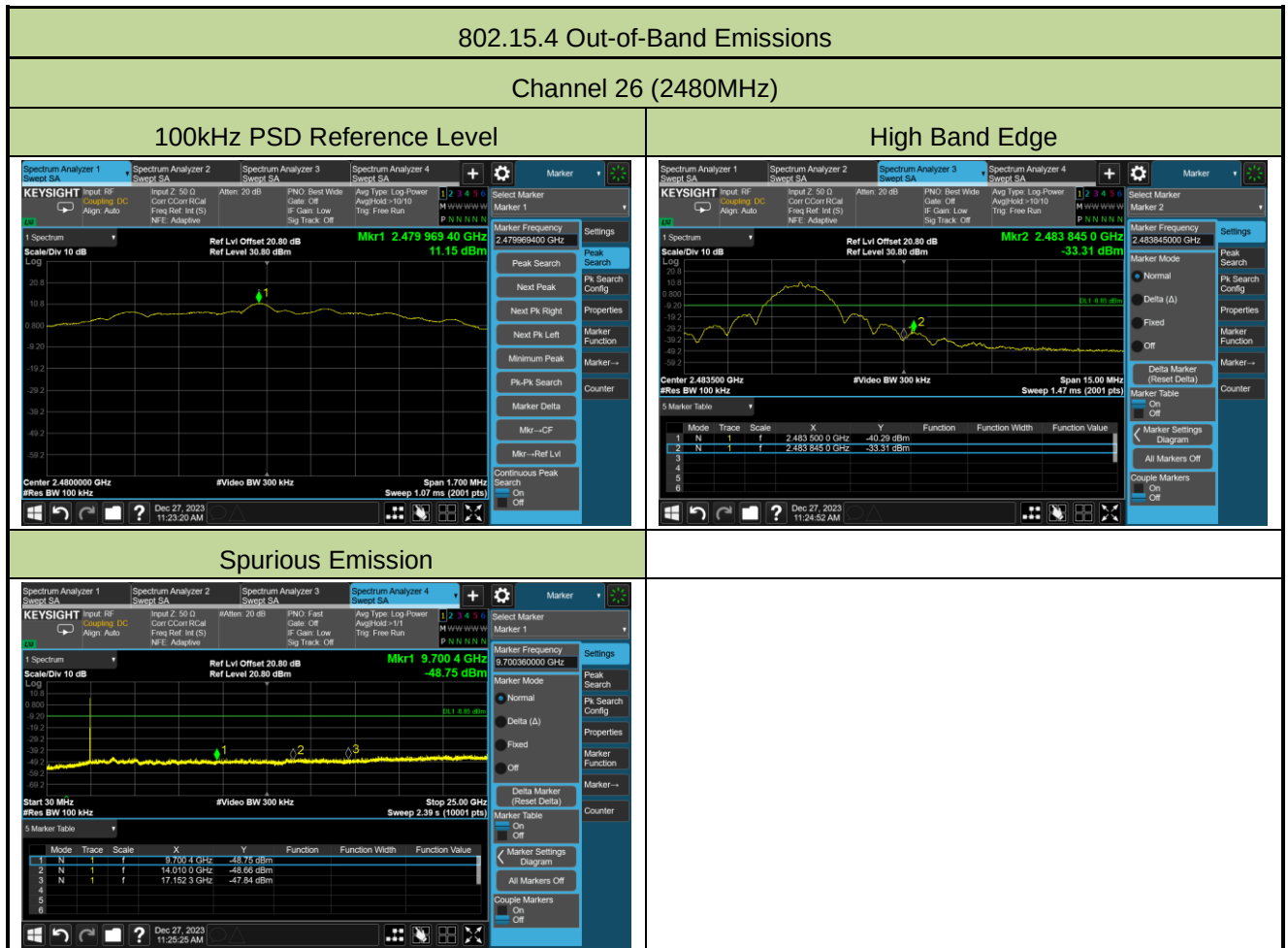


Spurious Emission



|           |            |                      |           |
|-----------|------------|----------------------|-----------|
| Test Site | WZ-SR5     | Test Engineer        | Lynn Yang |
| Test Date | 2023-12-27 | Filter Configuration | Filter 6# |

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



## 6. Radiated Spurious Emission Measurement Test Result

### Filter 4#

|           |                                                                                                                                                                                   |               |          |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|
| Test Site | WZ-AC2                                                                                                                                                                            | Test Engineer | Karl Gao |
| Test Date | 2023-12-26                                                                                                                                                                        |               |          |
| 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           | 7519.5          | 31.6                 | 11.8          | 43.4                   | 74.0           | -30.6       | Peak     | Horizontal   |
|              | 8242.0          | 30.4                 | 11.0          | 41.4                   | 74.0           | -32.6       | Peak     | Horizontal   |
|              | 11608.0         | 32.1                 | 17.2          | 49.3                   | 74.0           | -24.7       | Peak     | Horizontal   |
|              | 7477.0          | 31.4                 | 12.1          | 43.5                   | 74.0           | -30.5       | Peak     | Vertical     |
|              | 8165.5          | 30.2                 | 11.5          | 41.7                   | 74.0           | -32.3       | Peak     | Vertical     |
|              | 12492.0         | 31.4                 | 16.4          | 47.8                   | 74.0           | -26.2       | Peak     | Vertical     |
| 18           | 7477.0          | 30.4                 | 12.1          | 42.5                   | 74.0           | -31.5       | Peak     | Horizontal   |
|              | 8267.5          | 32.5                 | 11.2          | 43.6                   | 74.0           | -30.4       | Peak     | Horizontal   |
|              | 11480.5         | 28.4                 | 17.6          | 46.0                   | 74.0           | -28.0       | Peak     | Horizontal   |
|              | 7528.0          | 30.9                 | 11.8          | 42.7                   | 74.0           | -31.3       | Peak     | Vertical     |
|              | 8208.0          | 31.1                 | 11.3          | 42.3                   | 74.0           | -31.7       | Peak     | Vertical     |
|              | 10690.0         | 30.2                 | 16.2          | 46.4                   | 74.0           | -27.6       | Peak     | Vertical     |
| 26           | 7613.0          | 31.5                 | 11.8          | 43.3                   | 74.0           | -30.7       | Peak     | Horizontal   |
|              | 8480.0          | 31.4                 | 11.7          | 43.1                   | 74.0           | -30.9       | Peak     | Horizontal   |
|              | 11234.0         | 30.3                 | 17.0          | 47.3                   | 74.0           | -26.7       | Peak     | Horizontal   |
|              | 7570.5          | 31.2                 | 11.7          | 42.9                   | 74.0           | -31.1       | Peak     | Vertical     |
|              | 8361.0          | 32.2                 | 11.1          | 43.3                   | 74.0           | -30.7       | Peak     | Vertical     |
|              | 11582.5         | 29.6                 | 17.5          | 47.1                   | 74.0           | -26.9       | Peak     | Vertical     |

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

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

**Filter 5#**

|           |                                                                                                                                                                                   |               |          |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|
| Test Site | WZ-AC2                                                                                                                                                                            | Test Engineer | Karl Gao |
| Test Date | 2023-12-26                                                                                                                                                                        |               |          |
| 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                                                                                                                                                       | 7570.5          | 32.0                 | 11.7          | 43.7                   | 74.0           | -30.3       | Peak     | Horizontal   |
|                                                                                                                                                          | 8361.0          | 30.8                 | 11.1          | 41.9                   | 74.0           | -32.1       | Peak     | Horizontal   |
|                                                                                                                                                          | 11710.0         | 30.6                 | 17.8          | 48.4                   | 74.0           | -25.6       | Peak     | Horizontal   |
|                                                                                                                                                          | 7638.5          | 30.5                 | 11.5          | 42.1                   | 74.0           | -31.9       | Peak     | Vertical     |
|                                                                                                                                                          | 8140.0          | 31.7                 | 11.7          | 43.5                   | 74.0           | -30.5       | Peak     | Vertical     |
|                                                                                                                                                          | 11548.5         | 30.8                 | 17.7          | 48.5                   | 74.0           | -25.5       | 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) |                 |                      |               |                        |                |             |          |              |

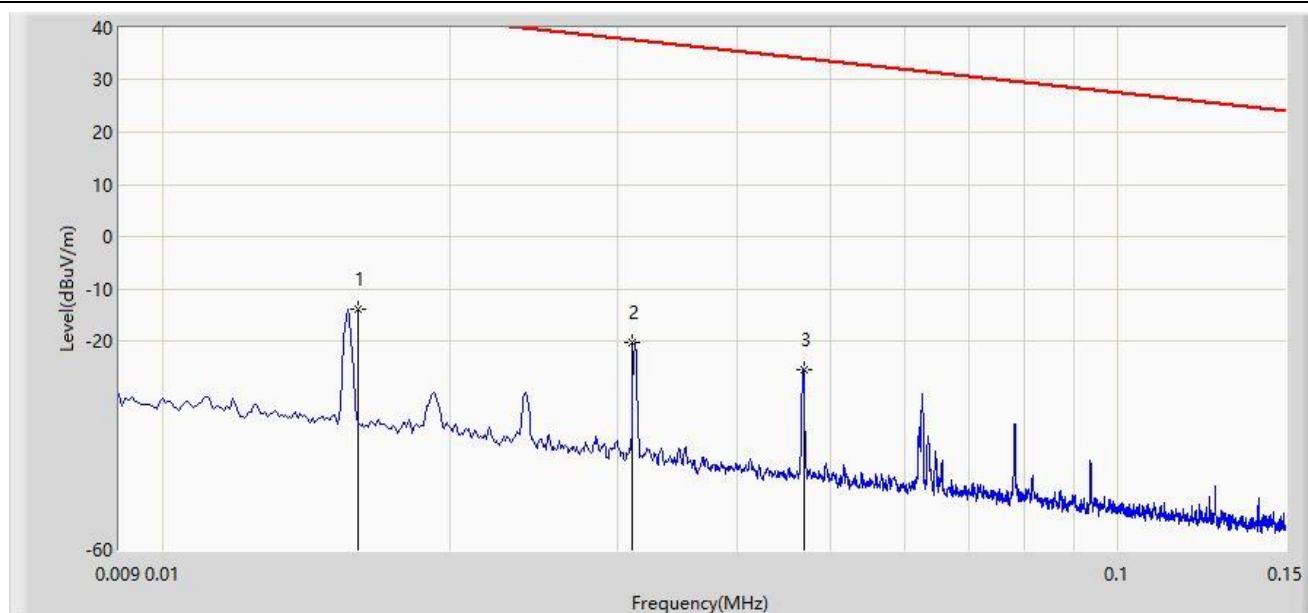
**Filter 6#**

|           |                                                                                                                                                                                   |               |          |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|
| Test Site | WZ-AC2                                                                                                                                                                            | Test Engineer | Karl Gao |
| Test Date | 2023-12-26                                                                                                                                                                        |               |          |
| 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                                                                                                                                                       | 7638.5          | 30.5                 | 11.5          | 42.1                   | 74.0           | -31.9       | Peak     | Horizontal   |
|                                                                                                                                                          | 8191.0          | 30.9                 | 11.5          | 42.4                   | 74.0           | -31.6       | Peak     | Horizontal   |
|                                                                                                                                                          | 11540.0         | 31.0                 | 17.6          | 48.5                   | 74.0           | -25.5       | Peak     | Horizontal   |
|                                                                                                                                                          | 7621.5          | 29.8                 | 11.7          | 41.5                   | 74.0           | -32.5       | Peak     | Vertical     |
|                                                                                                                                                          | 11251.0         | 29.2                 | 17.2          | 46.4                   | 74.0           | -27.6       | Peak     | Vertical     |
|                                                                                                                                                          | 11795.0         | 28.8                 | 17.7          | 46.4                   | 74.0           | -27.6       | 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 Result of Radiated Emission below 1GHz:

|                                          |                       |
|------------------------------------------|-----------------------|
| Site: WZ-AC1                             | Test Date: 2023-10-12 |
| Limit: FCC_Part 15.209_RSE(3m)           | Engineer: Carl Jiang  |
| Probe: FMZB1519_0.009-30MHz              | Polarity: Coaxial     |
| EUT: ACCESS POINT                        | Power: By PoE         |
| Test Mode: Transmit by Zigbee at 2440MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 0.016           | -14.004                | 65.960               | -57.510     | 43.505         | -79.964       | PK   |
| 2  |      | 0.031           | -20.249                | 59.712               | -58.012     | 37.764         | -79.961       | PK   |
| 3  |      | 0.047           | -25.643                | 54.314               | -59.794     | 34.151         | -79.957       | PK   |

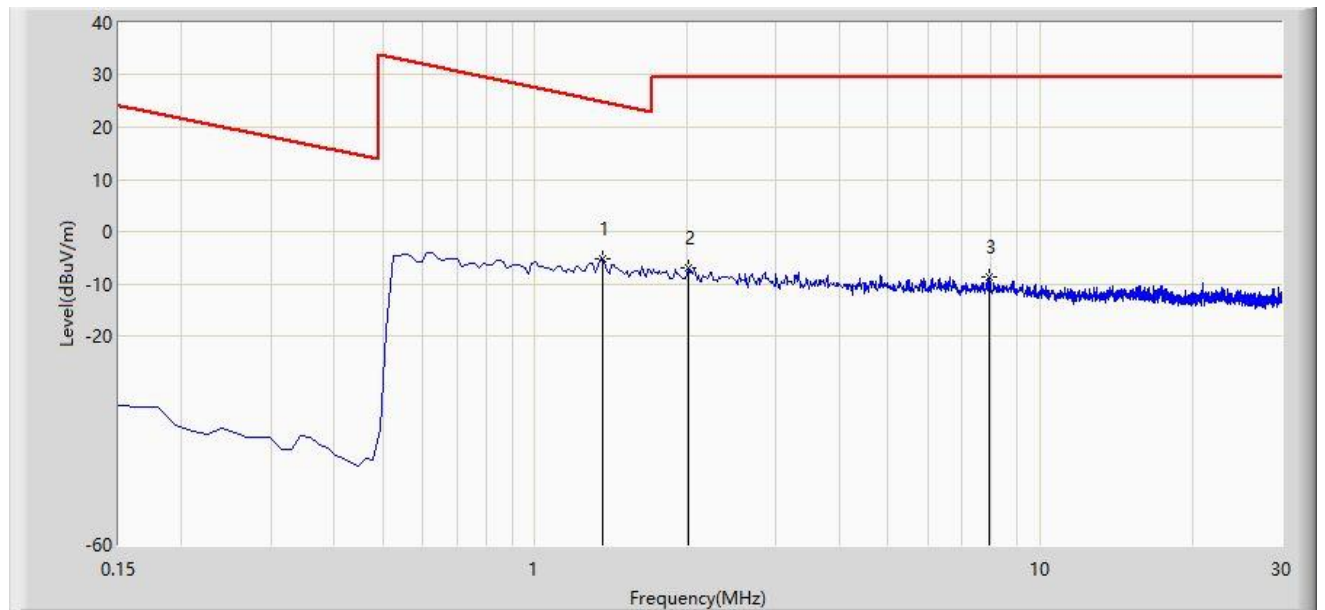
Note 1: " \* ", means this data is the worst emission level.

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                             | Test Date: 2023-10-12 |
| Limit: FCC_Part 15.209_RSE(3m)           | Engineer: Carl Jiang  |
| Probe: FMZB1519_0.009-30MHz              | Polarity: Coaxial     |
| EUT: ACCESS POINT                        | Power: By PoE         |
| Test Mode: Transmit by Zigbee at 2440MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 1.359           | -5.117                 | 34.681               | -30.082     | 24.965         | -39.798       | PK   |
| 2  |      | 2.016           | -6.936                 | 32.856               | -36.436     | 29.500         | -39.792       | PK   |
| 3  |      | 7.926           | -8.802                 | 30.885               | -38.302     | 29.500         | -39.687       | PK   |

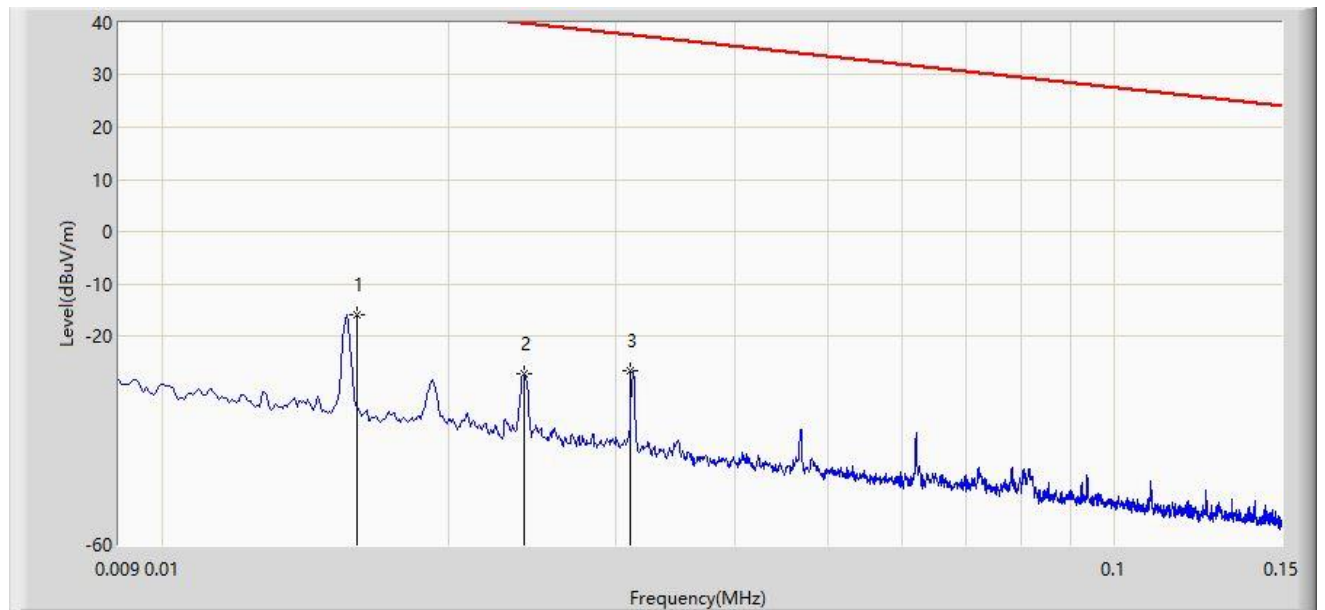
Note 1: " \* ", means this data is the worst emission level.

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                             | Test Date: 2023-10-12 |
| Limit: FCC_Part 15.209_RSE(3m)           | Engineer: Carl Jiang  |
| Probe: FMZB1519_0.009-30MHz              | Polarity: Coplanar    |
| EUT: ACCESS POINT                        | Power: By PoE         |
| Test Mode: Transmit by Zigbee at 2440MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 0.016           | -15.939                | 64.025               | -59.445     | 43.505         | -79.964       | PK   |
| 2  |      | 0.024           | -27.351                | 52.611               | -67.337     | 39.985         | -79.962       | PK   |
| 3  |      | 0.031           | -26.658                | 53.303               | -64.421     | 37.764         | -79.961       | PK   |

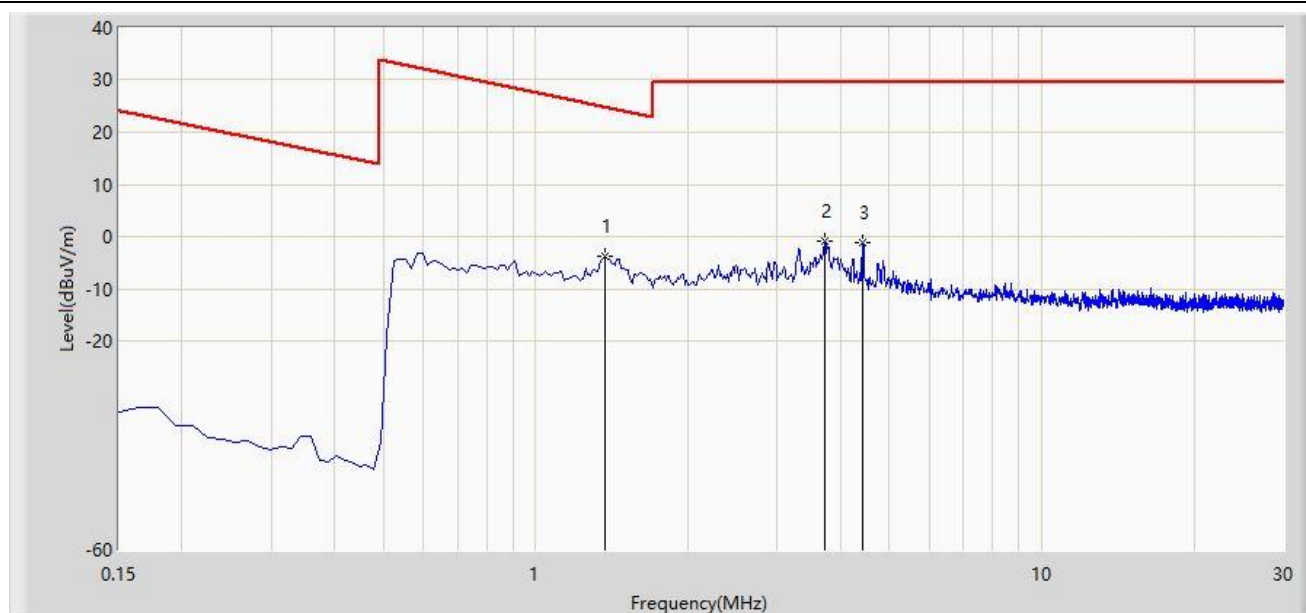
Note 1: " \* ", means this data is the worst emission level.

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                             | Test Date: 2023-10-12 |
| Limit: FCC_Part 15.209_RSE(3m)           | Engineer: Carl Jiang  |
| Probe: FMZB1519_0.009-30MHz              | Polarity: Coplanar    |
| EUT: ACCESS POINT                        | Power: By PoE         |
| Test Mode: Transmit by Zigbee at 2440MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 1.374           | -3.848                 | 35.950               | -28.717     | 24.869         | -39.798       | PK   |
| 2  |      | 3.717           | -0.863                 | 38.898               | -30.363     | 29.500         | -39.761       | PK   |
| 3  |      | 4.433           | -1.147                 | 38.592               | -30.647     | 29.500         | -39.739       | PK   |

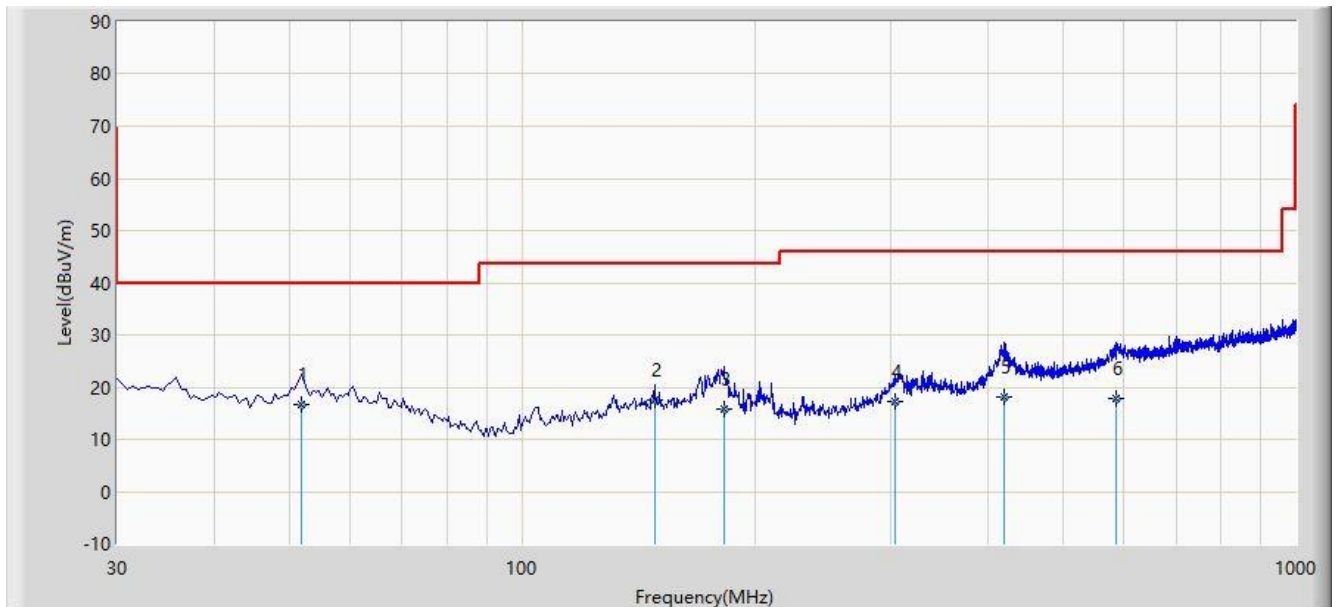
Note 1: " \* ", means this data is the worst emission level.

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                             | Test Date: 2023-08-22 |
| Limit: FCC_Part 15.209_RSE(3m)           | Engineer: Carl Jiang  |
| Probe: VULB 9168_25-2000MHz              | Polarity: Horizontal  |
| EUT: ACCESS POINT                        | Power: By PoE         |
| Test Mode: Transmit by Zigbee at 2440MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 51.825          | 16.674                 | -1.900               | -23.326     | 40.000         | 18.574        | QP   |
| 2  |      | 148.340         | 17.454                 | -0.600               | -26.046     | 43.500         | 18.055        | QP   |
| 3  |      | 182.290         | 15.686                 | -0.900               | -27.814     | 43.500         | 16.586        | QP   |
| 4  |      | 304.025         | 17.117                 | -1.500               | -28.883     | 46.000         | 18.618        | QP   |
| 5  |      | 419.455         | 18.094                 | -3.300               | -27.906     | 46.000         | 21.394        | QP   |
| 6  |      | 586.780         | 17.699                 | -7.400               | -28.301     | 46.000         | 25.098        | QP   |

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

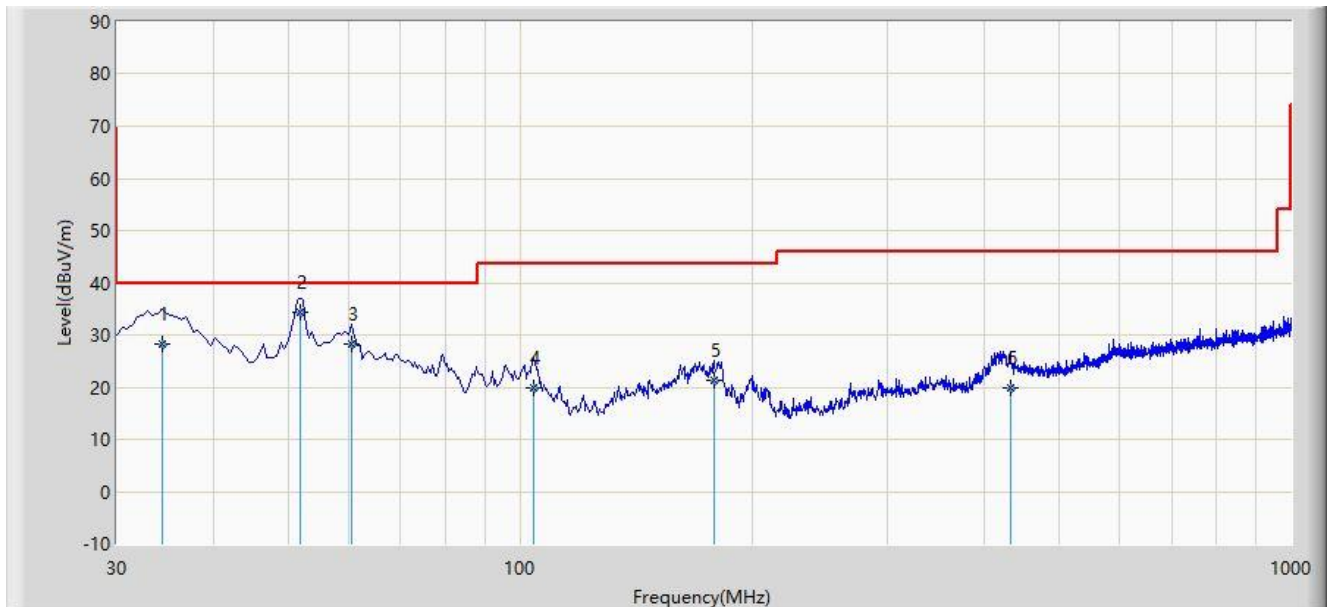
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

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

Note 4: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

|                                          |                       |
|------------------------------------------|-----------------------|
| Site: WZ-AC1                             | Test Date: 2023-08-22 |
| Limit: FCC_Part 15.209_RSE(3m)           | Engineer: Carl Jiang  |
| Probe: VULB 9168_25-2000MHz              | Polarity: Vertical    |
| EUT: ACCESS POINT                        | Power: By PoE         |
| Test Mode: Transmit by Zigbee at 2440MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  |      | 34.365          | 28.148                 | 10.700               | -11.852     | 40.000         | 17.448        | QP   |
| 2  | *    | 51.825          | 34.474                 | 15.900               | -5.526      | 40.000         | 18.574        | QP   |
| 3  |      | 60.555          | 28.297                 | 10.400               | -11.703     | 40.000         | 17.897        | QP   |
| 4  |      | 104.200         | 19.874                 | 5.700                | -23.626     | 43.500         | 14.174        | QP   |
| 5  |      | 178.410         | 21.273                 | 4.200                | -22.227     | 43.500         | 17.073        | QP   |
| 6  |      | 432.065         | 19.864                 | -2.100               | -26.136     | 46.000         | 21.964        | QP   |

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

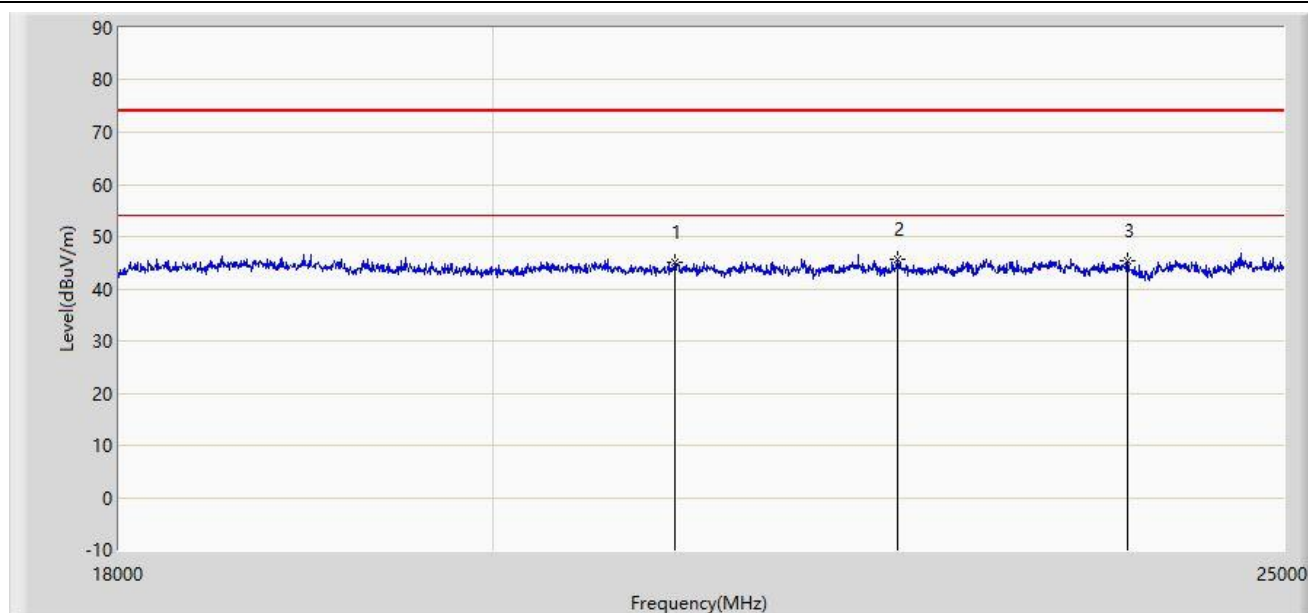
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

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

Note 4: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

|                                          |                       |
|------------------------------------------|-----------------------|
| Site: WZ-AC1                             | Test Date: 2023-09-23 |
| Limit: FCC_Part 15.209_RSE(3m)           | Engineer: Ajin Fan    |
| Probe: BBHA9170_993_18-40GHz             | Polarity: Horizontal  |
| EUT: ACCESS POINT                        | Power: By PoE         |
| Test Mode: Transmit by Zigbee at 2440MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  |      | 21055.500       | 44.971                 | 53.993               | -29.029     | 74.000         | -9.022        | PK   |
| 2  | *    | 22420.500       | 45.742                 | 53.431               | -28.258     | 74.000         | -7.689        | PK   |
| 3  |      | 23922.000       | 45.239                 | 52.799               | -28.761     | 74.000         | -7.560        | PK   |

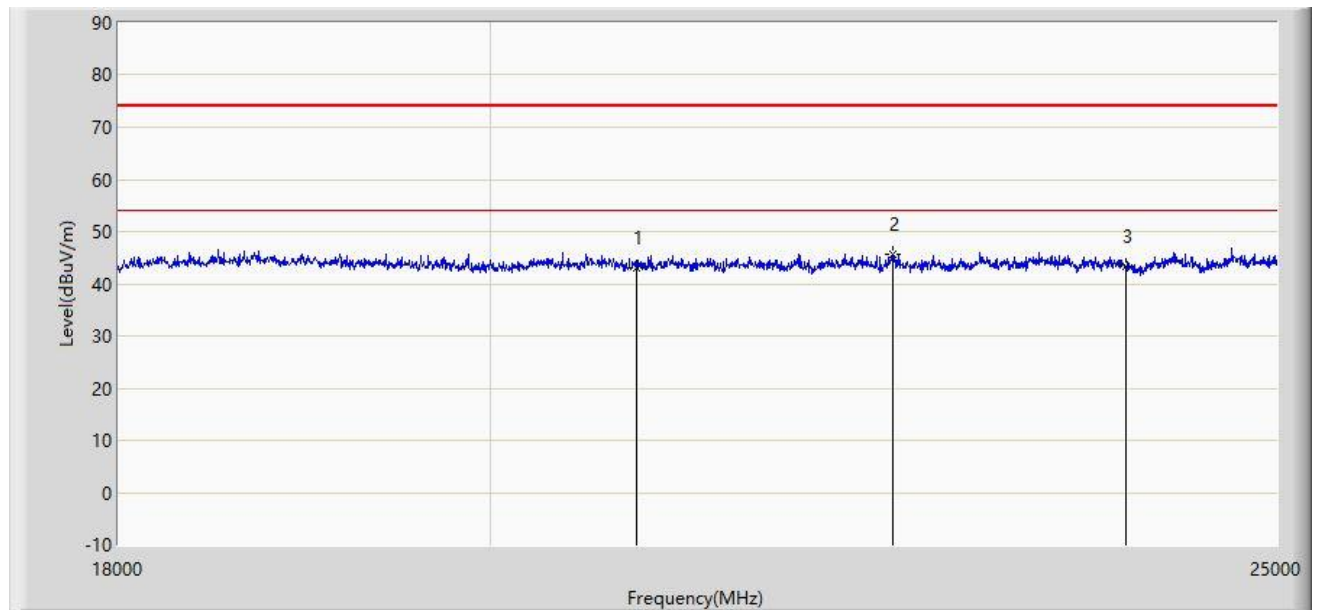
Note 1: " \* ", means this data is the worst emission level.

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                             | Test Date: 2023-09-23 |
| Limit: FCC_Part 15.209_RSE(3m)           | Engineer: Ajin Fan    |
| Probe: BBHA9170_993_18-40GHz             | Polarity: Vertical    |
| EUT: ACCESS POINT                        | Power: By PoE         |
| Test Mode: Transmit by Zigbee at 2440MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  |      | 20852.500       | 43.053                 | 52.357               | -30.947     | 74.000         | -9.303        | PK   |
| 2  | *    | 22420.500       | 45.594                 | 53.283               | -28.406     | 74.000         | -7.689        | PK   |
| 3  |      | 23950.000       | 43.331                 | 50.858               | -30.669     | 74.000         | -7.527        | PK   |

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

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

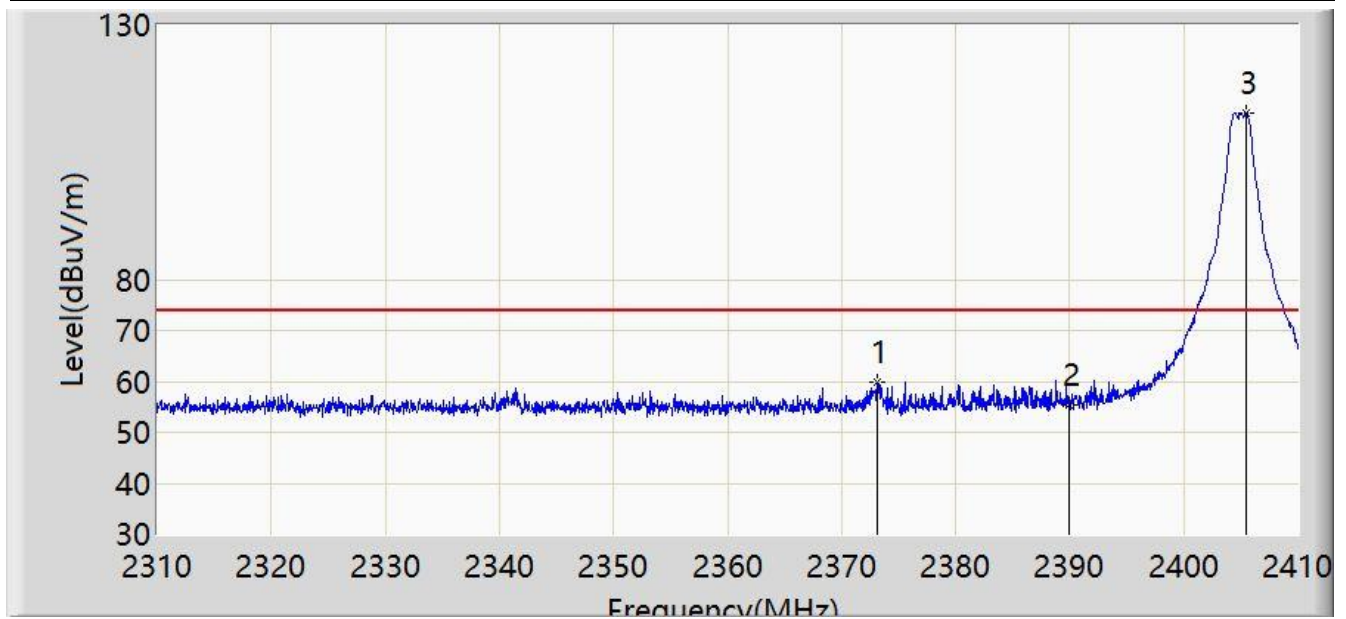
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

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

## 7. Radiated Restricted Band Edge Measurement Test Result

### Filter 4#

|                                          |                          |
|------------------------------------------|--------------------------|
| Site: WZ-AC2                             | Time: 2023/12/26 - 14:11 |
| Limit: FCC_2.4G_RE(3m)                   | Engineer: Karl Gao       |
| Probe: BBHA9120D_1457_1-18GHz            | Polarity: Horizontal     |
| EUT: ACCESS POINT                        | Power: By PoE            |
| 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  | *    | 2373.100        | 59.759                 | 27.851               | -14.241     | N/A                    | 74.000         | 31.908        | PK   |
|    |      | 2373.100        | 39.759                 | 27.851               | -14.241     | -20.00                 | 54.000         | 31.908        | AV   |
| 2  |      | 2390.000        | 55.274                 | 23.421               | -18.726     | N/A                    | 74.000         | 31.853        | PK   |
|    |      | 2390.000        | 35.274                 | 23.421               | -18.726     | -20.00                 | 54.000         | 31.853        | AV   |
| 3  |      | 2405.450        | 112.635                | 80.862               | N/A         | N/A                    | N/A            | 31.773        | PK   |
|    |      | 2405.450        | 92.635                 | 80.862               | N/A         | -20.00                 | N/A            | 31.773        | AV   |

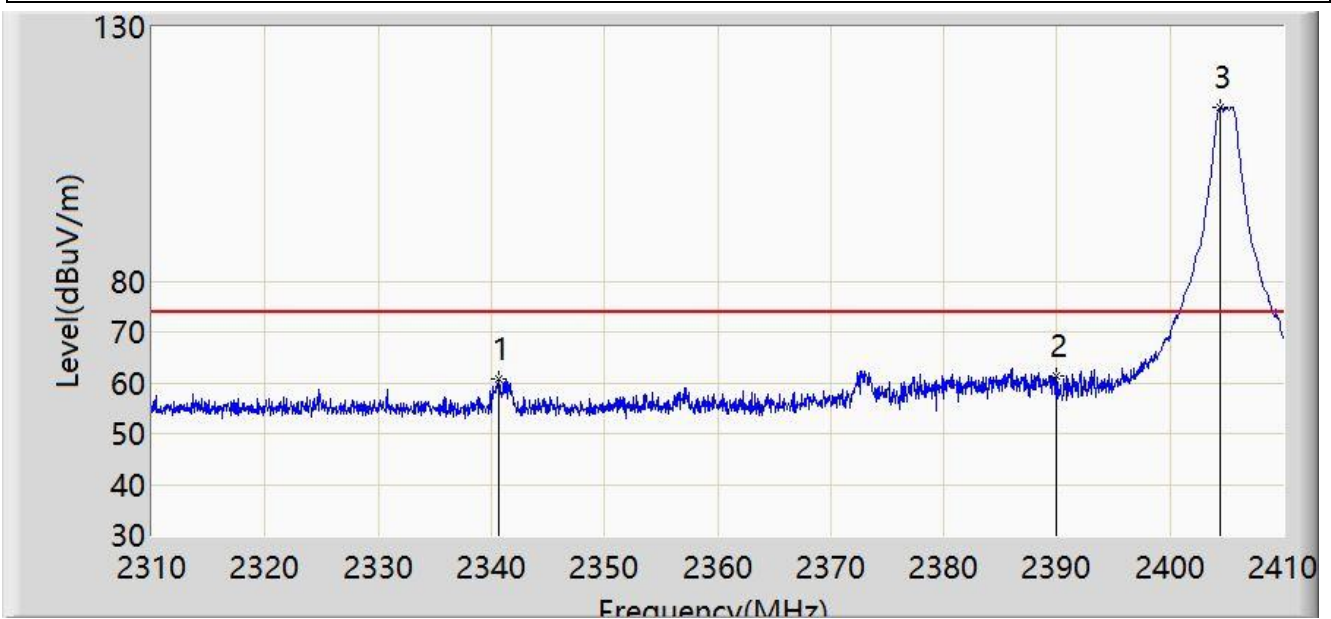
Note 1: " \* ", means this data is the worst emission level.

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-AC2                             | Time: 2023/12/26 - 14:18 |
| Limit: FCC_2.4G_RE(3m)                   | Engineer: Karl Gao       |
| Probe: BBHA9120D_1457_1-18GHz            | Polarity: Vertical       |
| EUT: ACCESS POINT                        | Power: By PoE            |
| Test Mode: Transmit by ZigBee at 2405MHz |                          |



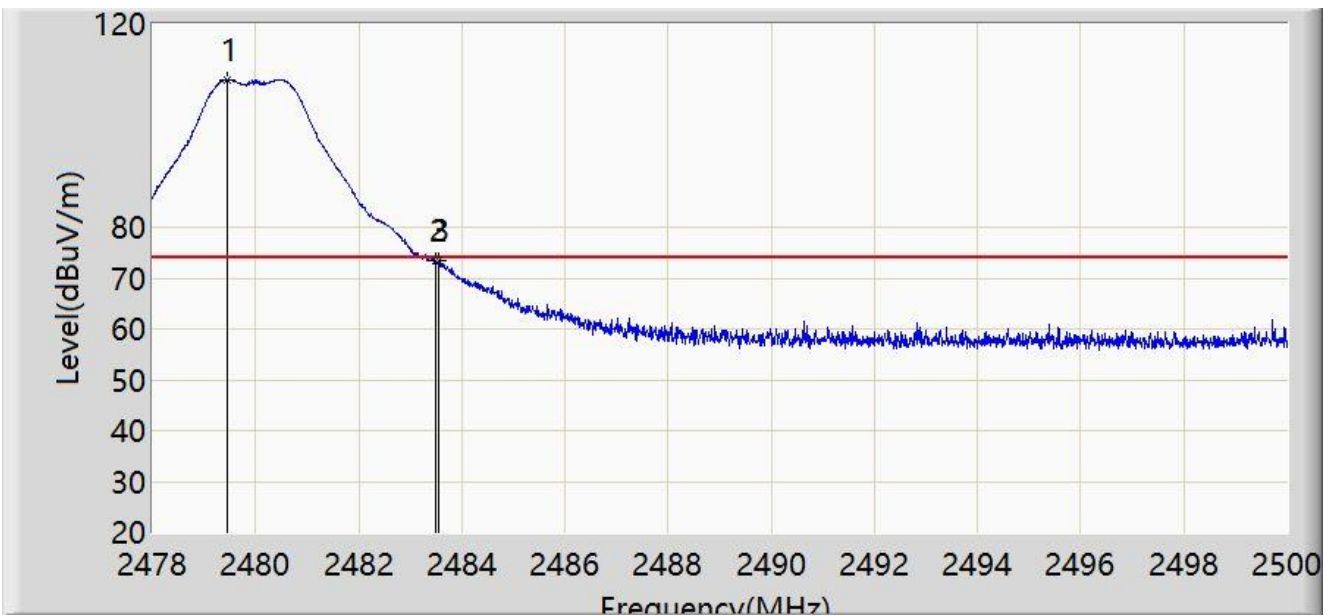
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Duty cycle Factor (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|------------------------|----------------|---------------|------|
| 1  |      | 2340.600        | 60.846                 | 28.874               | -13.154     | N/A                    | 74.000         | 31.972        | PK   |
|    |      | 2340.600        | 40.846                 | 28.874               | -13.154     | -20.00                 | 54.000         | 31.972        | AV   |
| 2  | *    | 2390.000        | 61.242                 | 29.389               | -12.758     | N/A                    | 74.000         | 31.853        | PK   |
|    |      | 2390.000        | 41.242                 | 29.389               | -12.758     | -20.00                 | 54.000         | 31.853        | AV   |
| 3  |      | 2404.500        | 114.129                | 82.353               | N/A         | N/A                    | N/A            | 31.776        | PK   |
|    |      | 2404.500        | 94.129                 | 82.353               | N/A         | -20.00                 | N/A            | 31.776        | 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).

|                                          |                          |
|------------------------------------------|--------------------------|
| Site: WZ-AC2                             | Time: 2023/10/24 - 01:33 |
| Limit: FCC_2.4G_RE(3m)                   | Engineer: Karl Gao       |
| Probe: Horn 3117_1-18GHz                 | Polarity: Vertical       |
| EUT: ACCESS POINT                        | Power: AC 120V/60Hz      |
| Test Mode: Transmit by Zigbee at 2480MHz |                          |



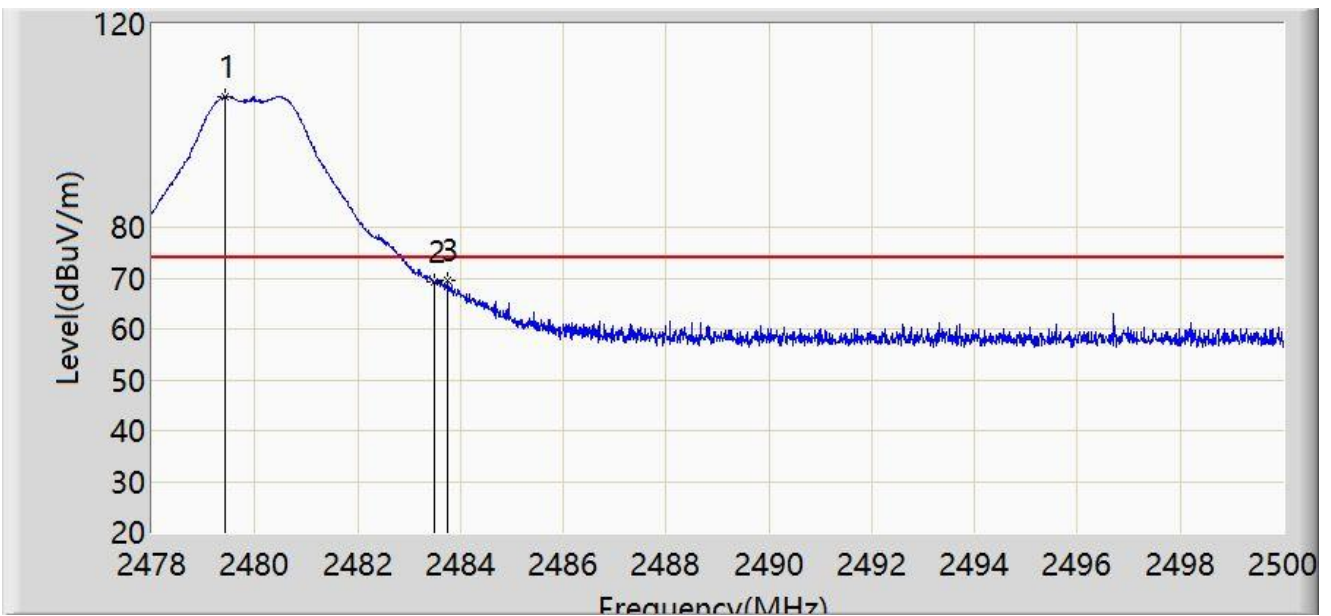
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Duty cycle Factor (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|------------------------|----------------|---------------|------|
| 1  |      | 2479.463        | 108.980                | 72.551               | N/A         | N/A                    | N/A            | 36.429        | PK   |
|    |      | 2479.463        | 88.980                 | 72.551               | N/A         | -20.00                 | N/A            | 36.429        | AV   |
| 2  | *    | 2483.500        | 73.495                 | 37.057               | -0.505      | N/A                    | 74.000         | 36.438        | PK   |
|    |      | 2483.500        | 53.495                 | 37.057               | -0.505      | -20.00                 | 54.000         | 36.438        | AV   |
| 3  |      | 2483.555        | 73.390                 | 36.952               | -0.610      | N/A                    | 74.000         | 36.439        | PK   |
|    |      | 2483.555        | 53.390                 | 36.952               | -0.610      | -20.00                 | 54.000         | 36.439        | 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).

|                                          |                          |
|------------------------------------------|--------------------------|
| Site: WZ-AC2                             | Time: 2023/10/24 - 01:40 |
| Limit: FCC_2.4G_RE(3m)                   | Engineer: Karl Gao       |
| Probe: Horn 3117_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  |      | 2479.419        | 105.561                | 69.132               | N/A         | N/A                    | N/A            | 36.429        | PK   |
|    |      | 2479.419        | 85.561                 | 69.132               | N/A         | -20.00                 | N/A            | 36.429        | AV   |
| 2  |      | 2483.500        | 69.359                 | 32.921               | -4.641      | N/A                    | 74.000         | 36.438        | PK   |
|    |      | 2483.500        | 49.359                 | 32.921               | -4.641      | -20.00                 | 54.000         | 36.438        | AV   |
| 3  | *    | 2483.753        | 69.468                 | 33.029               | -4.532      | N/A                    | 74.000         | 36.439        | PK   |
|    |      | 2483.753        | 49.468                 | 33.029               | -4.532      | -20.00                 | 54.000         | 36.439        | AV   |

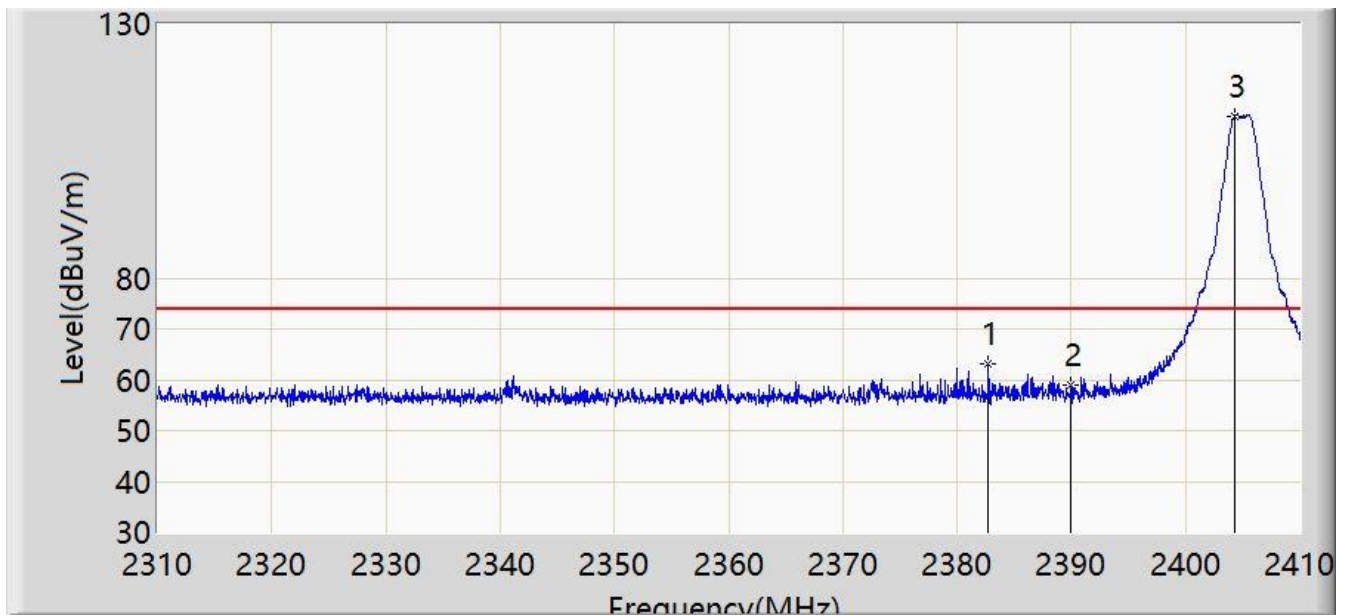
Note 1: " \* ", means this data is the worst emission level.

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

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

# Filter 5#

|                                          |                          |
|------------------------------------------|--------------------------|
| Site: WZ-AC2                             | Time: 2023/12/26 - 15:02 |
| Limit: FCC_2.4G_RE(3m)                   | Engineer: Karl Gao       |
| Probe: BBHA9120D_1457_1-18GHz            | Polarity: Horizontal     |
| EUT: ACCESS POINT                        | Power: By PoE            |
| Test Mode: Transmit by ZigBee at 2405MHz |                          |



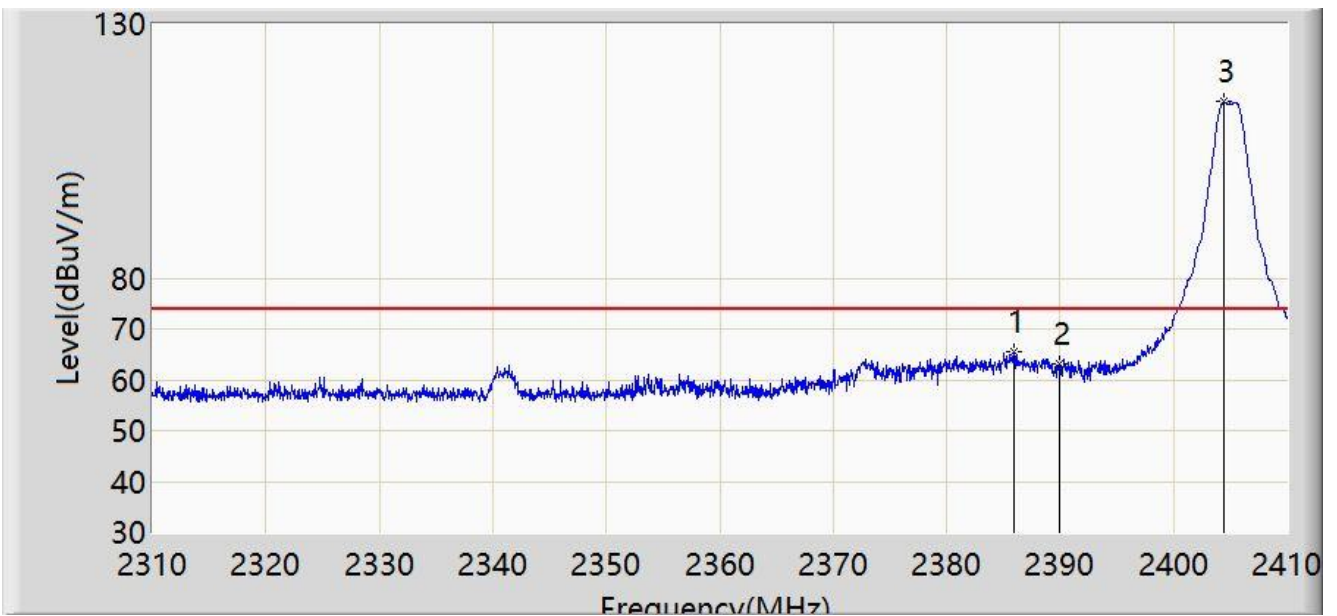
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Duty cycle Factor (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|------------------------|----------------|---------------|------|
| 1  | *    | 2382.750        | 62.990                 | 31.101               | -11.010     | N/A                    | 74.000         | 31.888        | PK   |
|    |      | 2382.750        | 42.990                 | 31.101               | -11.010     | -20.00                 | 54.000         | 31.888        | AV   |
| 2  |      | 2390.000        | 58.924                 | 27.071               | -15.076     | N/A                    | 74.000         | 31.853        | PK   |
|    |      | 2390.000        | 38.924                 | 27.071               | -15.076     | -20.00                 | 54.000         | 31.853        | AV   |
| 3  |      | 2404.300        | 111.861                | 80.084               | N/A         | N/A                    | N/A            | 31.776        | PK   |
|    |      | 2404.300        | 91.861                 | 80.084               | N/A         | -20.00                 | N/A            | 31.776        | 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).

|                                          |                          |
|------------------------------------------|--------------------------|
| Site: WZ-AC2                             | Time: 2023/12/26 - 15:07 |
| Limit: FCC_2.4G_RE(3m)                   | Engineer: Karl Gao       |
| Probe: BBHA9120D_1457_1-18GHz            | Polarity: Vertical       |
| EUT: ACCESS POINT                        | Power: By PoE            |
| 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  | *    | 2385.950        | 65.646                 | 33.770               | -8.354      | N/A                    | 74.000         | 31.875        | PK   |
|    |      | 2385.950        | 45.646                 | 33.770               | -8.354      | -20.00                 | 54.000         | 31.875        | AV   |
| 2  |      | 2390.000        | 63.033                 | 31.180               | -10.967     | N/A                    | 74.000         | 31.853        | PK   |
|    |      | 2390.000        | 43.033                 | 31.180               | -10.967     | -20.00                 | 54.000         | 31.853        | AV   |
| 3  |      | 2404.450        | 114.636                | 82.860               | N/A         | N/A                    | N/A            | 31.776        | PK   |
|    |      | 2404.450        | 94.636                 | 82.860               | N/A         | -20.00                 | N/A            | 31.776        | AV   |

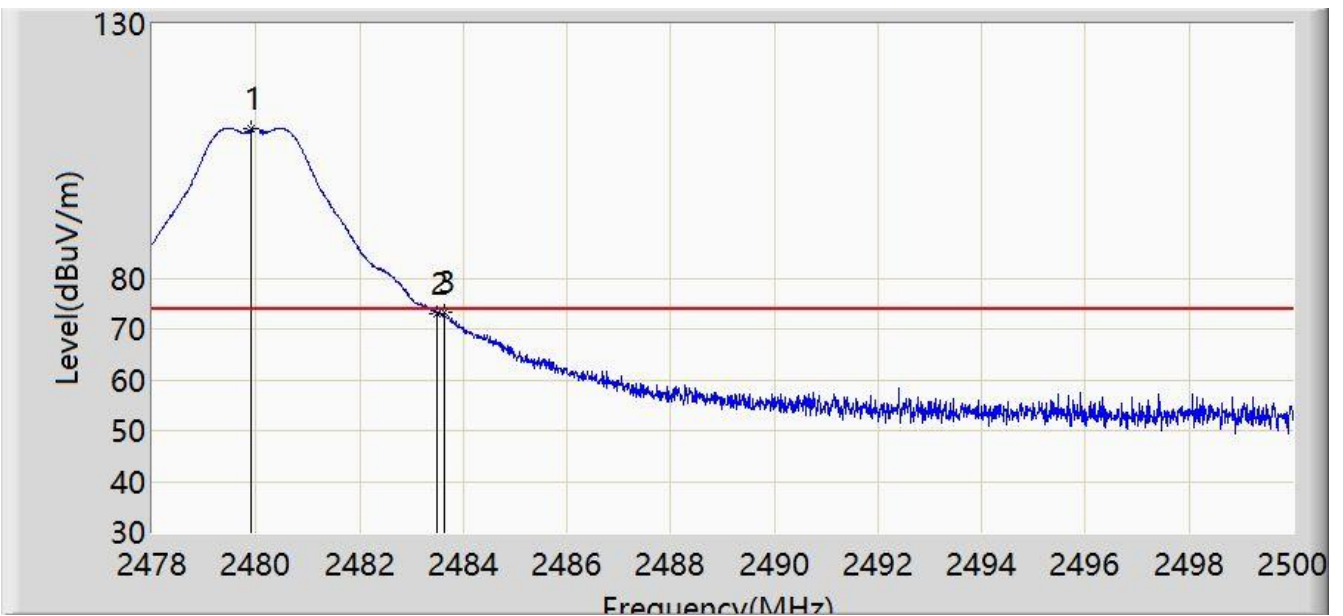
Note 1: " \* ", means this data is the worst emission level.

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

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

# Filter 6#

|                                          |                          |
|------------------------------------------|--------------------------|
| Site: WZ-AC2                             | Time: 2023/12/26 - 15:39 |
| Limit: FCC_2.4G_RE(3m)                   | Engineer: Karl Gao       |
| Probe: BBHA9120D_1457_1-18GHz            | Polarity: Vertical       |
| EUT: ACCESS POINT                        | Power: By PoE            |
| Test Mode: Transmit by ZigBee at 2480MHz |                          |



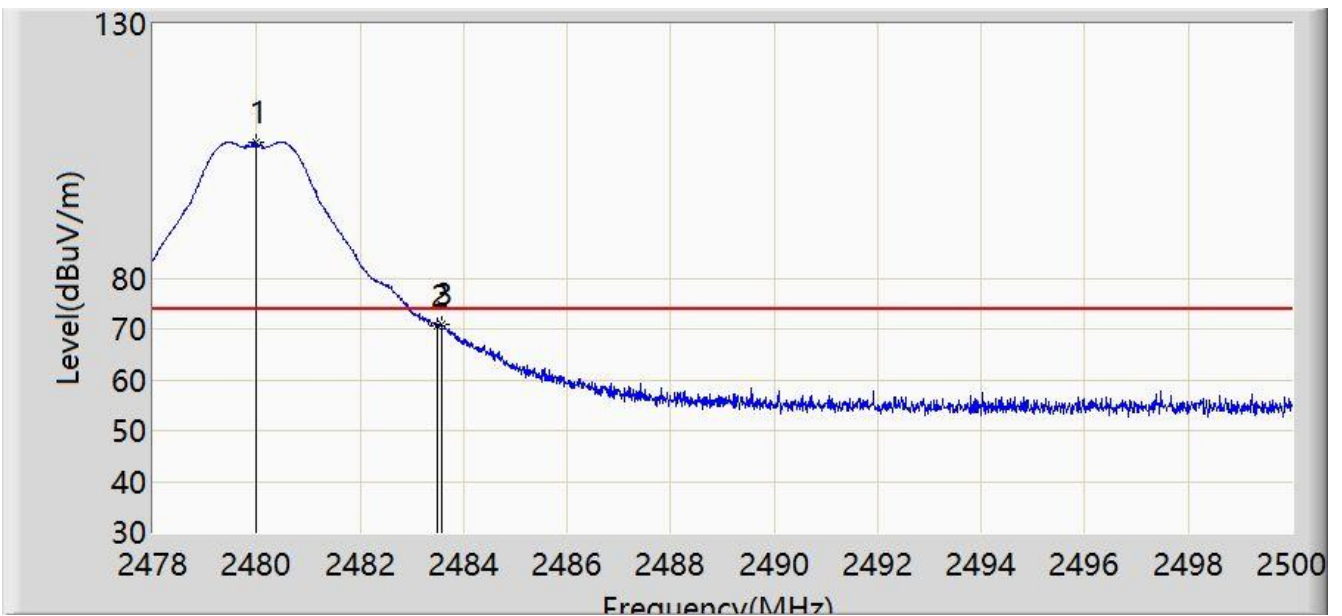
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Duty cycle Factor (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|------------------------|----------------|---------------|------|
| 1  |      | 2479.903        | 109.362                | 77.663               | N/A         | N/A                    | N/A            | 31.699        | PK   |
|    |      | 2479.903        | 89.362                 | 77.663               | N/A         | -20.00                 | N/A            | 31.699        | AV   |
| 2  |      | 2483.500        | 72.902                 | 41.205               | -1.098      | N/A                    | 74.000         | 31.696        | PK   |
|    |      | 2483.500        | 52.902                 | 41.205               | -1.098      | -20.00                 | 54.000         | 31.696        | AV   |
| 3  | *    | 2483.632        | 73.196                 | 41.499               | -0.804      | N/A                    | 74.000         | 31.697        | PK   |
|    |      | 2483.632        | 53.196                 | 41.499               | -0.804      | -20.00                 | 54.000         | 31.697        | 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).

|                                          |                          |
|------------------------------------------|--------------------------|
| Site: WZ-AC2                             | Time: 2023/12/26 - 15:41 |
| Limit: FCC_2.4G_RE(3m)                   | Engineer: Karl Gao       |
| Probe: BBHA9120D_1457_1-18GHz            | Polarity: Horizontal     |
| EUT: ACCESS POINT                        | Power: By PoE            |
| 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  |      | 2480.002        | 106.588                | 74.889               | N/A         | N/A                    | N/A            | 31.699        | PK   |
|    |      | 2480.002        | 86.588                 | 74.889               | N/A         | -20.00                 | N/A            | 31.699        | AV   |
| 2  |      | 2483.500        | 70.699                 | 39.002               | -3.301      | N/A                    | 74.000         | 31.696        | PK   |
|    |      | 2483.500        | 50.699                 | 39.002               | -3.301      | -20.00                 | 54.000         | 31.696        | AV   |
| 3  | *    | 2483.566        | 70.792                 | 39.095               | -3.208      | N/A                    | 74.000         | 31.697        | PK   |
|    |      | 2483.566        | 50.792                 | 39.095               | -3.208      | -20.00                 | 54.000         | 31.697        | AV   |

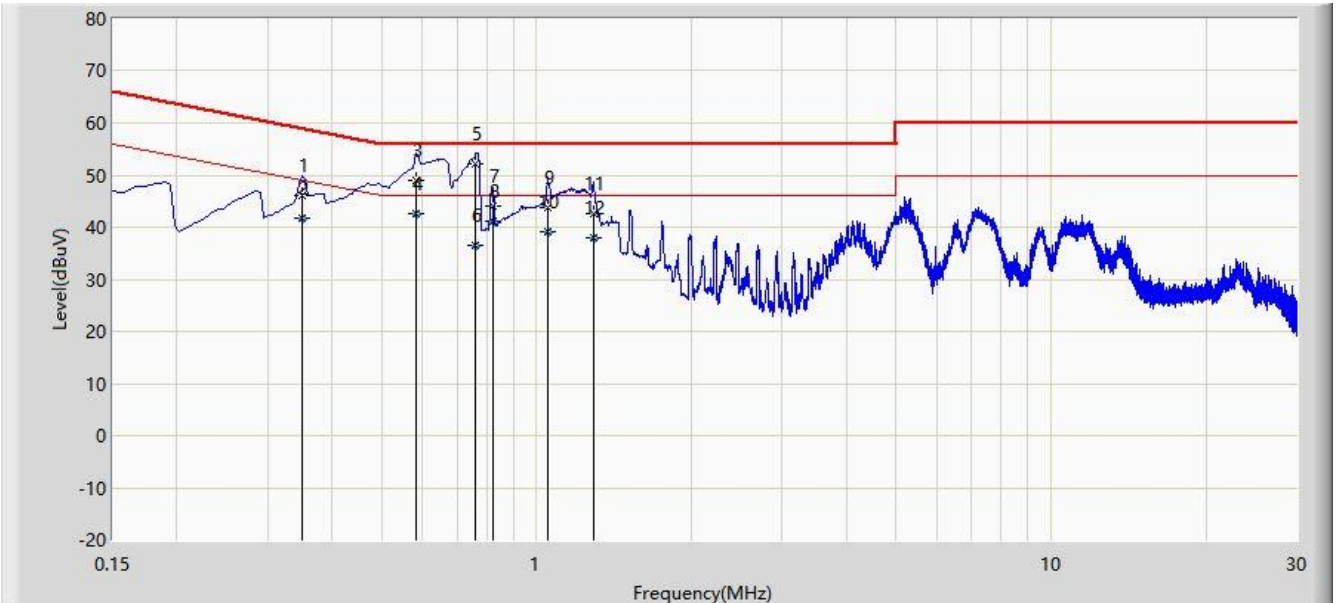
Note 1: " \* ", means this data is the worst emission level.

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

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

## 8. AC Conducted Emissions Test Result

|                                          |                          |
|------------------------------------------|--------------------------|
| Site: WZ-SR2                             | Time: 2023/12/21 - 15:58 |
| Limit: FCC_Part15.207_CE_AC Power        | Engineer: Linda Wei      |
| Probe: ENV216_101683_Filter Off_C        | Polarity: Line           |
| EUT: ACCESS POINT                        | Power: AC 120V/60Hz      |
| Test Mode: Transmit by Zigbee at 2440MHz |                          |



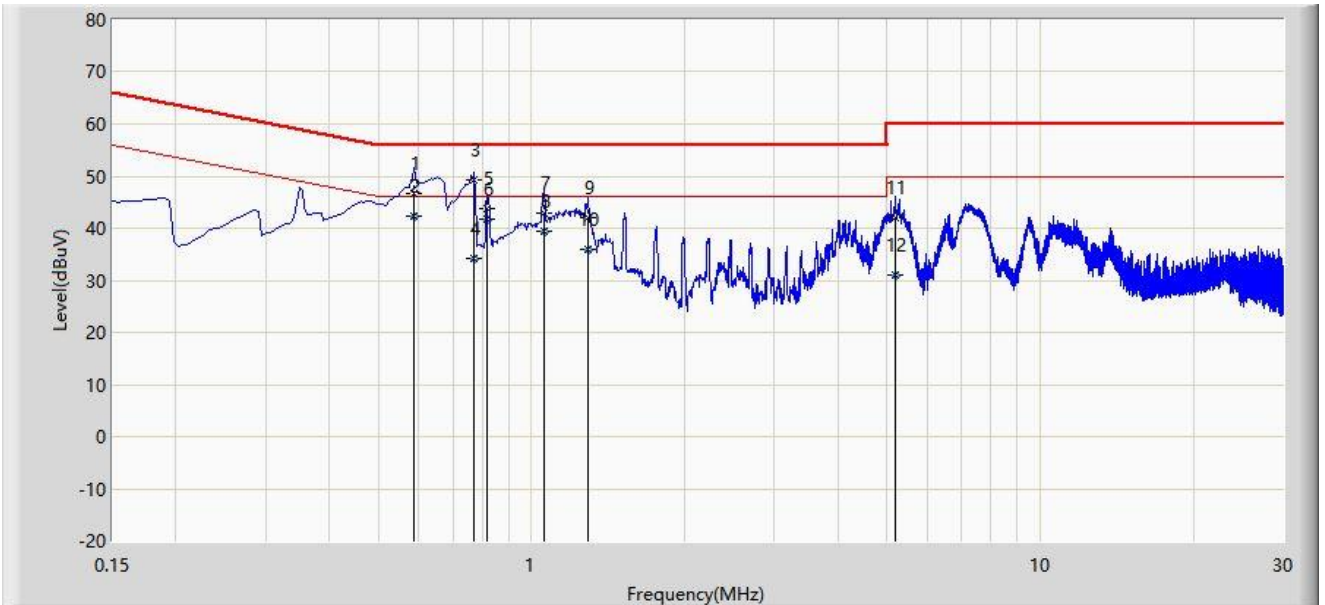
| No | Mark | Frequency (MHz) | Measure Level (dBμV) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV) | Factor (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-------------|--------------|-------------|------|
| 1  |      | 0.350           | 46.060               | 36.288               | -12.902     | 58.962       | 9.773       | QP   |
| 2  |      | 0.350           | 41.600               | 31.827               | -7.363      | 48.962       | 9.773       | AV   |
| 3  |      | 0.582           | 48.877               | 38.998               | -7.123      | 56.000       | 9.878       | QP   |
| 4  | *    | 0.582           | 42.503               | 32.624               | -3.497      | 46.000       | 9.878       | AV   |
| 5  |      | 0.762           | 52.193               | 42.226               | -3.807      | 56.000       | 9.967       | QP   |
| 6  |      | 0.762           | 36.549               | 26.582               | -9.451      | 46.000       | 9.967       | AV   |
| 7  |      | 0.822           | 44.143               | 34.145               | -11.857     | 56.000       | 9.999       | QP   |
| 8  |      | 0.822           | 41.169               | 31.171               | -4.831      | 46.000       | 9.999       | AV   |
| 9  |      | 1.050           | 43.891               | 33.810               | -12.109     | 56.000       | 10.081      | QP   |
| 10 |      | 1.050           | 39.000               | 28.919               | -7.000      | 46.000       | 10.081      | AV   |
| 11 |      | 1.290           | 42.671               | 32.587               | -13.329     | 56.000       | 10.084      | QP   |
| 12 |      | 1.290           | 38.067               | 27.984               | -7.933      | 46.000       | 10.084      | 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                             | Time: 2023/12/21 - 15:51 |
| Limit: FCC_Part15.207_CE_AC Power        | Engineer: Linda Wei      |
| Probe: ENV216_101683_Filter Off_C        | Polarity: Neutral        |
| EUT: ACCESS POINT                        | Power: AC 120V/60Hz      |
| Test Mode: Transmit by Zigbee at 2440MHz |                          |



| No | Mark | Frequency (MHz) | Measure Level (dBμV) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV) | Factor (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-------------|--------------|-------------|------|
| 1  |      | 0.586           | 46.670               | 36.790               | -9.330      | 56.000       | 9.880       | QP   |
| 2  | *    | 0.586           | 42.243               | 32.362               | -3.757      | 46.000       | 9.880       | AV   |
| 3  |      | 0.770           | 49.310               | 39.338               | -6.690      | 56.000       | 9.972       | QP   |
| 4  |      | 0.770           | 34.140               | 24.168               | -11.860     | 46.000       | 9.972       | AV   |
| 5  |      | 0.818           | 43.745               | 33.749               | -12.255     | 56.000       | 9.997       | QP   |
| 6  |      | 0.818           | 41.730               | 31.733               | -4.270      | 46.000       | 9.997       | AV   |
| 7  |      | 1.058           | 42.937               | 32.856               | -13.063     | 56.000       | 10.081      | QP   |
| 8  |      | 1.058           | 39.484               | 29.403               | -6.516      | 46.000       | 10.081      | AV   |
| 9  |      | 1.294           | 42.115               | 32.031               | -13.885     | 56.000       | 10.084      | QP   |
| 10 |      | 1.294           | 35.942               | 25.858               | -10.058     | 46.000       | 10.084      | AV   |
| 11 |      | 5.194           | 42.131               | 31.945               | -17.869     | 60.000       | 10.186      | QP   |
| 12 |      | 5.194           | 31.123               | 20.937               | -18.877     | 50.000       | 10.186      | 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).