

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<br>[MHz]                     | Field Strength<br>[V/m] | Measured Distance<br>[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                             |

### **For RSS-Gen Section 8.10 Requirement:**

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

| Frequency<br>(MHz)     | Frequency<br>(MHz) | Frequency<br>(GHz) |
|------------------------|--------------------|--------------------|
| 0.009 ~ 0.110          | 240 ~ 285          | 9.0 ~ 9.2          |
| 2.1735 ~ 2.1905        | 322 ~ 335.4        | 9.3 ~ 9.5          |
| 3.020 ~ 3.026          | 399.9 ~ 410        | 10.6 ~ 12.7        |
| 4.125 ~ 4.128          | 608 ~ 614          | 13.25 ~ 13.4       |
| 4.17725 ~ 4.17775      | 960 ~ 1427         | 14.47 ~ 14.5       |
| 4.20725 ~ 4.20775      | 1435 ~ 1626.5      | 15.35 ~ 16.2       |
| 5.677 ~ 5.683          | 1645.5 ~ 1646.5    | 17.7 ~ 21.4        |
| 6.215 ~ 6.218          | 1660 ~ 1710        | 22.01 ~ 23.12      |
| 6.26775 ~ 6.26825      | 1718.8 ~1722.2     | 23.6 ~ 24.0        |
| 6.31175 ~ 6.31225      | 2200 ~ 2300        | 31.2 ~ 31.8        |
| 8.291 ~ 8.294          | 2310 ~ 2390        | 36.43 ~ 36.5       |
| 8.362 ~ 8.366          | 2655 ~ 2900        | Above 38.6         |
| 8.37625 ~ 8.38675      | 3260 ~ 3267        | --                 |
| 8.41425 ~ 8.41475      | 3332 ~ 3339        |                    |
| 12.29 ~ 12.293         | 334.5 ~ 3358       |                    |
| 12.51975 ~ 12.52025    | 3500 ~ 4400        |                    |
| 12.57675 ~ 12.57725    | 4500 ~ 5150        |                    |
| 13.36 ~13.41           | 5350 ~ 5460        |                    |
| 16.42 ~ 16.423         | 7250 ~ 7750        |                    |
| 16.69475 ~ 16.69525    | 8025 ~ 8500        |                    |
| 16.80425 ~ 16.80475    | --                 |                    |
| 25.5 ~ 25.67           |                    |                    |
| 37.5 ~ 38.25           |                    |                    |
| 73 ~ 74.6              |                    |                    |
| 74.8 ~ 75.2            |                    |                    |
| 108 ~ 138              |                    |                    |
| 156.52475 ~ 156.525225 |                    |                    |
| 156.7 ~ 156.9          |                    |                    |

### 7.6.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

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

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

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

### 7.6.3. 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 |

#### **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**

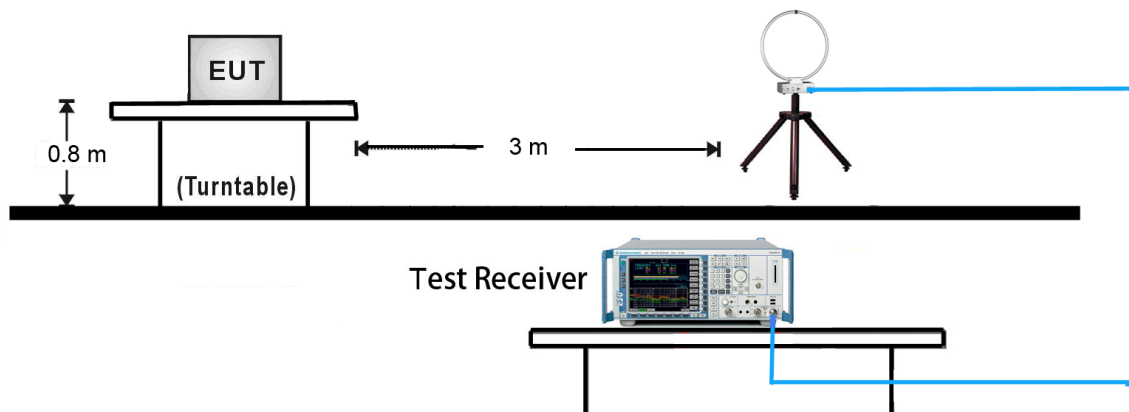
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Average Measurements above 1GHz (Method VB)**

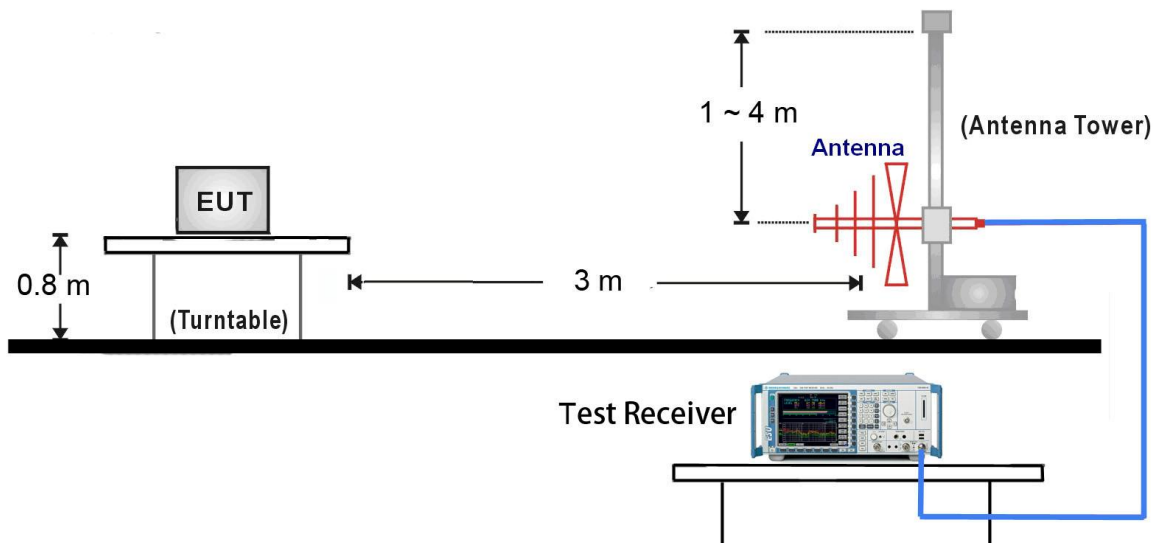
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW = 10 Hz. If the EUT duty cycle is  $< 98\%$ , set VBW  $\geq 1/T$ . T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

#### 7.6.4.Test Setup

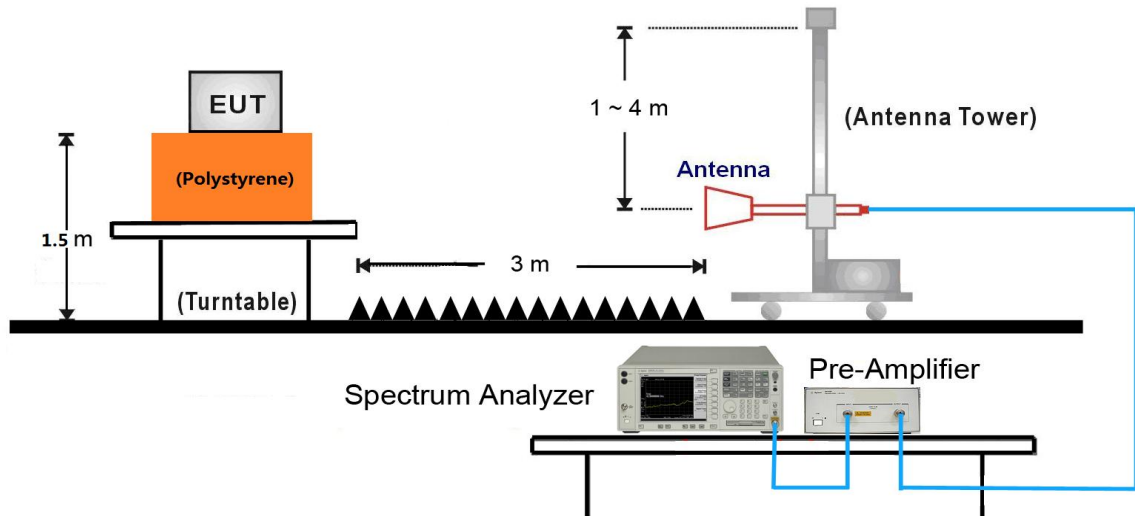
##### 9kHz ~ 30MHz Test Setup:



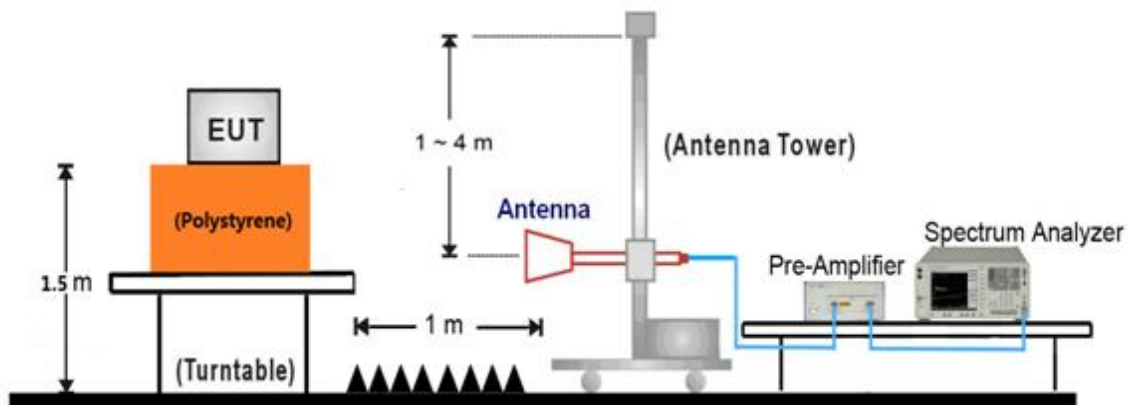
##### 30MHz ~ 1GHz Test Setup:



### 1GHz ~ 18GHz Test Setup:



### 18GHz ~ 25GHz Test Setup:



### 7.6.5.Test Result

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11b                                                                                                                                                                           | Test Site:     | AC1      |
| Test Channel: | 01                                                                                                                                                                                | Test Engineer: | Will Yan |
| 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. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4825.0          | 40.0                 | 2.7         | 42.7                   | 74.0           | -31.3       | Peak     | Horizontal   |
| *    | 7230.5          | 42.2                 | 7.8         | 50.0                   | 87.8           | -37.8       | Peak     | Horizontal   |
|      | 9109.0          | 37.4                 | 9.4         | 46.8                   | 74.0           | -27.2       | Peak     | Horizontal   |
| *    | 9600.2          | 34.4                 | 10.9        | 45.3                   | 87.8           | -42.5       | Peak     | Horizontal   |
|      | 5418.3          | 35.4                 | 3.3         | 38.7                   | 74.0           | -35.3       | Peak     | Vertical     |
| *    | 7239.0          | 38.9                 | 7.8         | 46.7                   | 87.8           | -41.1       | Peak     | Vertical     |
|      | 9182.3          | 34.9                 | 10.0        | 44.9                   | 74.0           | -29.1       | Peak     | Vertical     |
| *    | 12817.3         | 33.9                 | 11.8        | 45.7                   | 87.8           | -42.1       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (107.8dBμV/m) or 15.209 which is higher.

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

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

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11b                                                                                                                                                                           | Test Site:     | AC1      |
| Test Channel: | 06                                                                                                                                                                                | Test Engineer: | Will Yan |
| 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. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7307.0          | 43.2                 | 8.0         | 51.2                   | 74.0           | -22.8       | Peak     | Horizontal   |
| *    | 8627.3          | 35.5                 | 8.8         | 44.3                   | 89.7           | -45.4       | Peak     | Horizontal   |
|      | 9182.4          | 35.1                 | 10.0        | 45.1                   | 74.0           | -28.9       | Peak     | Horizontal   |
| *    | 12718.3         | 33.9                 | 11.7        | 45.6                   | 89.7           | -44.1       | Peak     | Horizontal   |
|      | 4829.3          | 35.2                 | 2.7         | 37.9                   | 74.0           | -36.1       | Peak     | Vertical     |
| *    | 6829.3          | 34.5                 | 6.2         | 40.7                   | 89.7           | -49.0       | Peak     | Vertical     |
|      | 9182.4          | 34.2                 | 10.0        | 44.2                   | 74.0           | -29.8       | Peak     | Vertical     |
| *    | 12718.3         | 33.9                 | 11.7        | 45.6                   | 89.7           | -44.1       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (109.7dBμV/m) or 15.209 which is higher.

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

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

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11b                                                                                                                                                                           | Test Site:     | AC1      |
| Test Channel: | 11                                                                                                                                                                                | Test Engineer: | Will Yan |
| 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. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4927.0          | 39.0                 | 2.8         | 41.8                   | 74.0           | -32.2       | Peak     | Horizontal   |
| *    | 6102.2          | 33.7                 | 4.3         | 38.0                   | 83.6           | -45.6       | Peak     | Horizontal   |
|      | 7383.5          | 42.2                 | 7.9         | 50.1                   | 74.0           | -23.9       | Peak     | Horizontal   |
| *    | 12783.3         | 33.5                 | 11.7        | 45.2                   | 83.6           | -38.4       | Peak     | Horizontal   |
|      | 7383.5          | 37.5                 | 7.9         | 45.4                   | 74.0           | -28.6       | Peak     | Vertical     |
| *    | 8632.3          | 34.4                 | 8.8         | 43.2                   | 83.6           | -40.4       | Peak     | Vertical     |
|      | 9420.3          | 33.5                 | 10.6        | 44.1                   | 74.0           | -29.9       | Peak     | Vertical     |
| *    | 12728.3         | 32.9                 | 11.6        | 44.5                   | 83.6           | -39.1       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (103.6dBμV/m) or 15.209 which is higher.

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

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

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11g                                                                                                                                                                           | Test Site:     | AC1      |
| Test Channel: | 01                                                                                                                                                                                | Test Engineer: | Will Yan |
| 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. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4829.4          | 36.2                 | 2.7         | 38.9                   | 74.0           | -35.1       | Peak     | Horizontal   |
| *    | 7230.5          | 45.5                 | 7.8         | 53.3                   | 85.9           | -32.6       | Peak     | Horizontal   |
|      | 9182.2          | 33.6                 | 10.0        | 43.6                   | 74.0           | -30.4       | Peak     | Horizontal   |
| *    | 12728.2         | 32.7                 | 11.6        | 44.3                   | 85.9           | -41.6       | Peak     | Horizontal   |
|      | 4820.3          | 34.7                 | 2.7         | 37.4                   | 74.0           | -36.6       | Peak     | Vertical     |
| *    | 6928.4          | 33.6                 | 6.6         | 40.2                   | 85.9           | -45.7       | Peak     | Vertical     |
|      | 9488.4          | 33.8                 | 10.6        | 44.4                   | 74.0           | -29.6       | Peak     | Vertical     |
| *    | 12738.3         | 33.3                 | 11.7        | 45.0                   | 85.9           | -40.9       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (105.9dBμV/m) or 15.209 which is higher.

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

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

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11g                                                                                                                                                                           | Test Site:     | AC1      |
| Test Channel: | 06                                                                                                                                                                                | Test Engineer: | Will Yan |
| 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. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 7308.5          | 46.6                 | 8.0         | 54.6                   | 74.0           | -19.4       | Peak     | Horizontal   |
|      | 7308.5          | 34.0                 | 8.0         | 42.0                   | 54.0           | -12.0       | Average  | Horizontal   |
| *    | 8637.3          | 34.3                 | 8.8         | 43.1                   | 88.6           | -45.5       | Peak     | Horizontal   |
|      | 9428.4          | 33.9                 | 10.5        | 44.4                   | 74.0           | -29.6       | Peak     | Horizontal   |
| *    | 12728.2         | 33.1                 | 11.6        | 44.7                   | 88.6           | -43.9       | Peak     | Horizontal   |
|      | 4827.3          | 35.6                 | 2.7         | 38.3                   | 74.0           | -35.7       | Peak     | Vertical     |
| *    | 6281.3          | 34.2                 | 4.9         | 39.1                   | 88.6           | -49.5       | Peak     | Vertical     |
|      | 7307.0          | 38.7                 | 8.0         | 46.7                   | 74.0           | -27.3       | Peak     | Vertical     |
| *    | 12718.1         | 33.8                 | 11.7        | 45.5                   | 88.6           | -43.1       | Peak     | Vertical     |

Note 1: "\*" is not in restricted band, its limit is 20dBc of the fundamental emission level (108.6dBμV/m) or 15.209 which is higher.

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

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

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11g                                                                                                                                                                           | Test Site:     | AC1      |
| Test Channel: | 11                                                                                                                                                                                | Test Engineer: | Will Yan |
| 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. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4827.2          | 35.1                 | 2.7         | 37.8                   | 74.0           | -36.2       | Peak     | Horizontal   |
| *    | 6029.3          | 34.5                 | 4.1         | 38.6                   | 86.5           | -47.9       | Peak     | Horizontal   |
|      | 7383.5          | 42.8                 | 7.9         | 50.7                   | 74.0           | -23.3       | Peak     | Horizontal   |
| *    | 9283.3          | 33.8                 | 10.3        | 44.1                   | 86.5           | -42.4       | Peak     | Horizontal   |
|      | 4829.1          | 35.4                 | 2.7         | 38.1                   | 74.0           | -35.9       | Peak     | Vertical     |
| *    | 6172.1          | 33.6                 | 4.6         | 38.2                   | 86.5           | -48.3       | Peak     | Vertical     |
|      | 7383.5          | 37.9                 | 7.9         | 45.8                   | 74.0           | -28.2       | Peak     | Vertical     |
| *    | 9218.2          | 34.3                 | 10.1        | 44.4                   | 86.5           | -42.1       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (106.5dBμV/m) or 15.209 which is higher.

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

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

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11n-HT20                                                                                                                                                                      | Test Site:     | AC1      |
| Test Channel: | 01                                                                                                                                                                                | Test Engineer: | Will Yan |
| 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. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4829.2          | 36.9                 | 2.7         | 39.6                   | 74.0           | -34.4       | Peak     | Horizontal   |
| *    | 7239.0          | 44.7                 | 7.8         | 52.5                   | 86.4           | -33.9       | Peak     | Horizontal   |
|      | 9182.3          | 34.8                 | 10.0        | 44.8                   | 74.0           | -29.2       | Peak     | Horizontal   |
| *    | 9628.3          | 34.1                 | 11.0        | 45.1                   | 86.4           | -41.3       | Peak     | Horizontal   |
|      | 4829.2          | 35.3                 | 2.7         | 38.0                   | 74.0           | -36.0       | Peak     | Vertical     |
| *    | 7230.5          | 36.8                 | 7.8         | 44.6                   | 86.4           | -41.8       | Peak     | Vertical     |
|      | 9182.2          | 34.0                 | 10.0        | 44.0                   | 74.0           | -30.0       | Peak     | Vertical     |
| *    | 12738.3         | 33.8                 | 11.7        | 45.5                   | 86.4           | -40.9       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (106.4dBμV/m) or 15.209 which is higher.

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

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

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11n-HT20                                                                                                                                                                      | Test Site:     | AC1      |
| Test Channel: | 06                                                                                                                                                                                | Test Engineer: | Will Yan |
| 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. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4722.3          | 34.9                 | 2.4         | 37.3                   | 74.0           | -36.7       | Peak     | Horizontal   |
| *    | 6039.3          | 34.5                 | 4.1         | 38.6                   | 88.5           | -49.9       | Peak     | Horizontal   |
|      | 7307.0          | 44.3                 | 8.0         | 52.3                   | 74.0           | -21.7       | Peak     | Horizontal   |
| *    | 9482.4          | 34.1                 | 10.6        | 44.7                   | 88.5           | -43.8       | Peak     | Horizontal   |
|      | 4728.4          | 34.2                 | 2.5         | 36.7                   | 74.0           | -37.3       | Peak     | Vertical     |
| *    | 6172.4          | 33.4                 | 4.6         | 38.0                   | 88.5           | -50.5       | Peak     | Vertical     |
|      | 7307.0          | 38.1                 | 8.0         | 46.1                   | 74.0           | -27.9       | Peak     | Vertical     |
| *    | 9273.9          | 33.4                 | 10.3        | 43.7                   | 88.5           | -44.8       | Peak     | Vertical     |

Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (108.5dBμV/m) or 15.209 which is higher.

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

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

|               |                                                                                                                                                                                   |                |          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Test Mode:    | 802.11n-HT20                                                                                                                                                                      | Test Site:     | AC1      |
| Test Channel: | 11                                                                                                                                                                                | Test Engineer: | Will Yan |
| 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. |                |          |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|-------------|------------------------|----------------|-------------|----------|--------------|
|      | 4829.3          | 35.0                 | 2.7         | 37.7                   | 74.0           | -36.3       | Peak     | Horizontal   |
| *    | 6023.2          | 34.3                 | 4.2         | 38.5                   | 86.9           | -48.4       | Peak     | Horizontal   |
|      | 7383.5          | 42.0                 | 7.9         | 49.9                   | 74.0           | -24.1       | Peak     | Horizontal   |
| *    | 9683.3          | 33.2                 | 10.9        | 44.1                   | 86.9           | -42.8       | Peak     | Horizontal   |
|      | 4829.4          | 35.0                 | 2.7         | 37.7                   | 74.0           | -36.3       | Peak     | Vertical     |
| *    | 6039.0          | 34.6                 | 4.1         | 38.7                   | 86.9           | -48.2       | Peak     | Vertical     |
|      | 7582.3          | 34.6                 | 8.2         | 42.8                   | 74.0           | -31.2       | Peak     | Vertical     |
| *    | 9683.3          | 34.0                 | 10.9        | 44.9                   | 86.9           | -42.0       | Peak     | Vertical     |

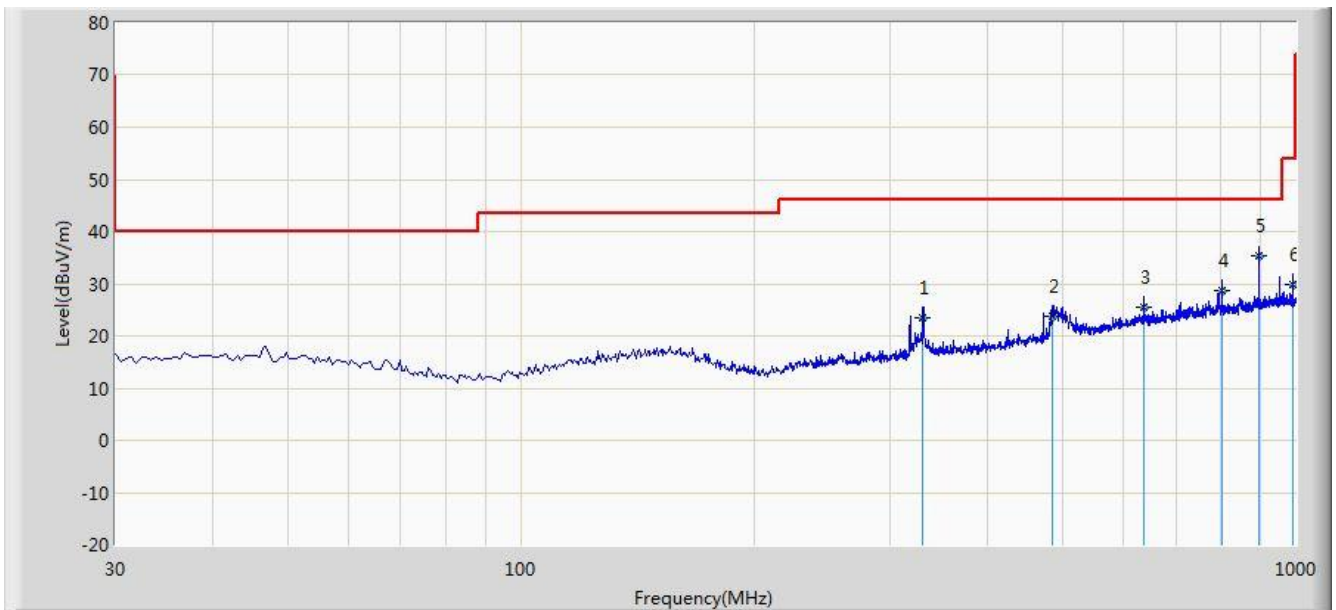
Note 1: “\*” is not in restricted band, its limit is 20dBc of the fundamental emission level (106.9dBμV/m) or 15.209 which is higher.

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

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

### The worst case of Radiated Emission below 1GHz:

|                                                                         |                          |
|-------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                               | Time: 2017/12/11 - 16:34 |
| Limit: FCC_Part15.209_RE(3m)                                            | Engineer: Alex Ma        |
| Probe: VULB9162_0.03-8GHz                                               | Polarity: Horizontal     |
| EUT: Cassia Bluetooth Router                                            | Power: AC 120V/60Hz      |
| <b>Note: There is the worst case within frequency range 30MHz~1GHz.</b> |                          |



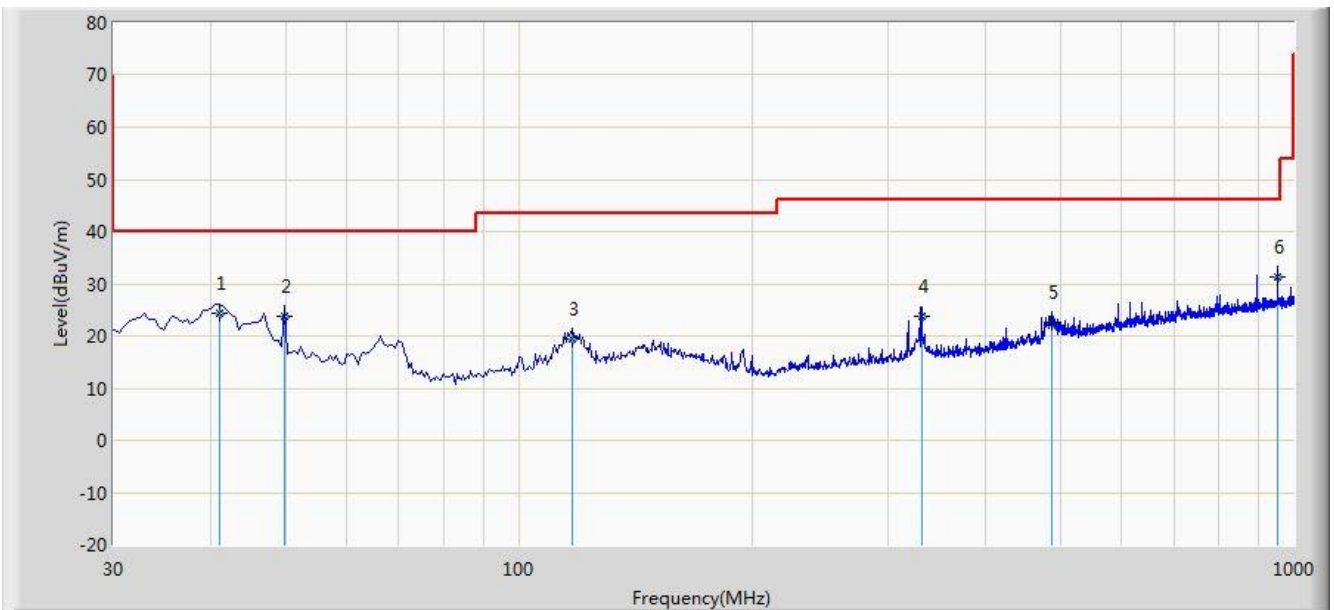
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 330.215         | 23.458                 | 8.273                | -22.542         | 46.000         | 15.185      | QP   |
| 2  |      |      | 485.900         | 23.789                 | 5.427                | -22.211         | 46.000         | 18.361      | QP   |
| 3  |      |      | 636.250         | 25.395                 | 4.131                | -20.605         | 46.000         | 21.264      | QP   |
| 4  |      |      | 803.090         | 28.738                 | 5.396                | -17.262         | 46.000         | 23.342      | QP   |
| 5  |      |      | 897.665         | 35.223                 | 10.831               | -10.777         | 46.000         | 24.392      | QP   |
| 6  |      |      | 991.755         | 29.867                 | 4.726                | -24.133         | 54.000         | 25.142      | QP   |

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

|                                                                         |                          |
|-------------------------------------------------------------------------|--------------------------|
| Site: AC1                                                               | Time: 2017/12/11 - 16:38 |
| Limit: FCC_Part15.209_RE(3m)                                            | Engineer: Alex Ma        |
| Probe: VULB9162_0.03-8GHz                                               | Polarity: Vertical       |
| EUT: Cassia Bluetooth Router                                            | Power: AC 120V/60Hz      |
| <b>Note: There is the worst case within frequency range 30MHz~1GHz.</b> |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 41.155          | 24.230                 | 9.678                | -15.770         | 40.000         | 14.552      | QP   |
| 2  |      |      | 49.885          | 23.814                 | 9.627                | -16.186         | 40.000         | 14.187      | QP   |
| 3  |      |      | 117.300         | 19.528                 | 6.597                | -23.972         | 43.500         | 12.931      | QP   |
| 4  |      |      | 330.700         | 23.650                 | 8.455                | -22.350         | 46.000         | 15.195      | QP   |
| 5  |      |      | 488.325         | 22.698                 | 4.301                | -23.302         | 46.000         | 18.397      | QP   |
| 6  |      |      | 954.410         | 31.275                 | 6.256                | -14.725         | 46.000         | 25.019      | QP   |

Note 1: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

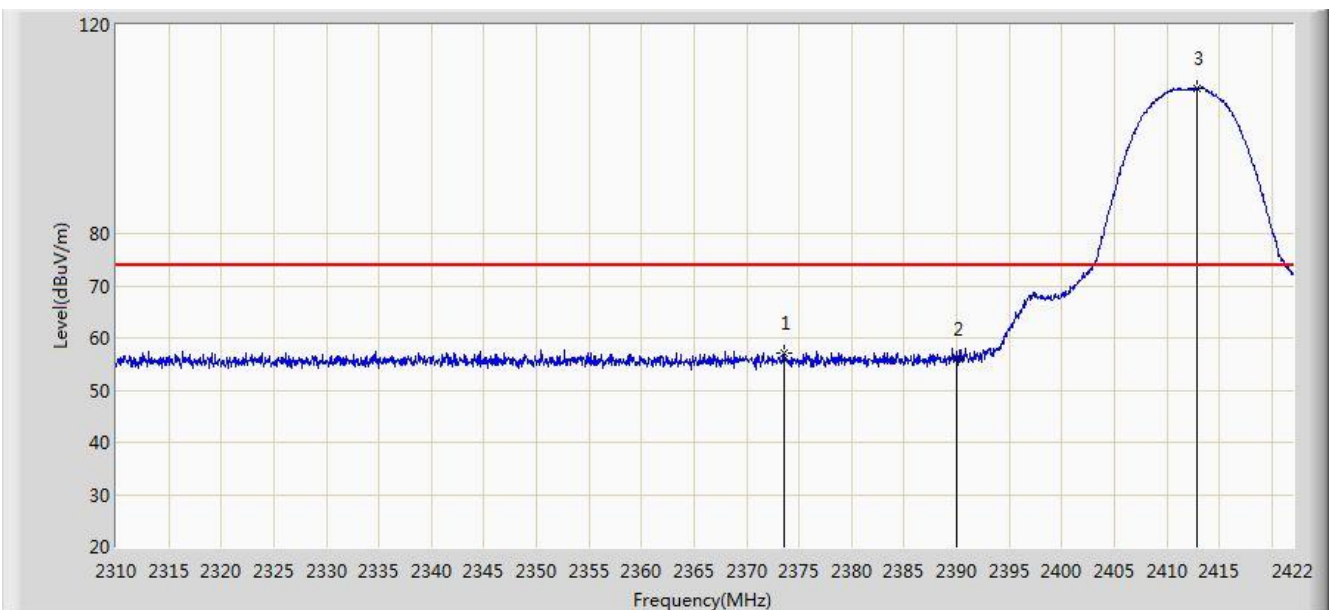
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

## 7.7. Radiated Restricted Band Edge Measurement

### 7.7.1. Test Result

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 18:32 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at channel 2412MHz |                          |

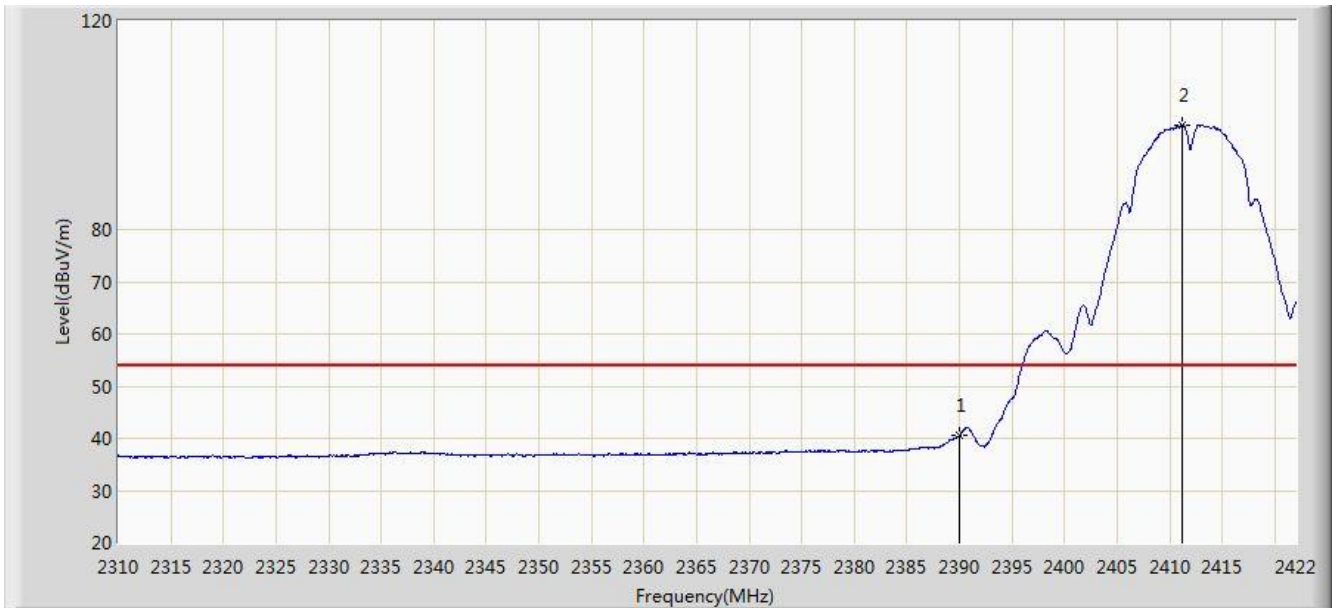


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2373.616        | 57.128                 | 25.895               | -16.872         | 74.000         | 31.233      | PK   |
| 2  |      |      | 2390.000        | 55.990                 | 24.787               | -18.010         | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2412.872        | 107.801                | 76.633               | N/A             | N/A            | 31.168      | PK   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 18:34 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at channel 2412MHz |                          |

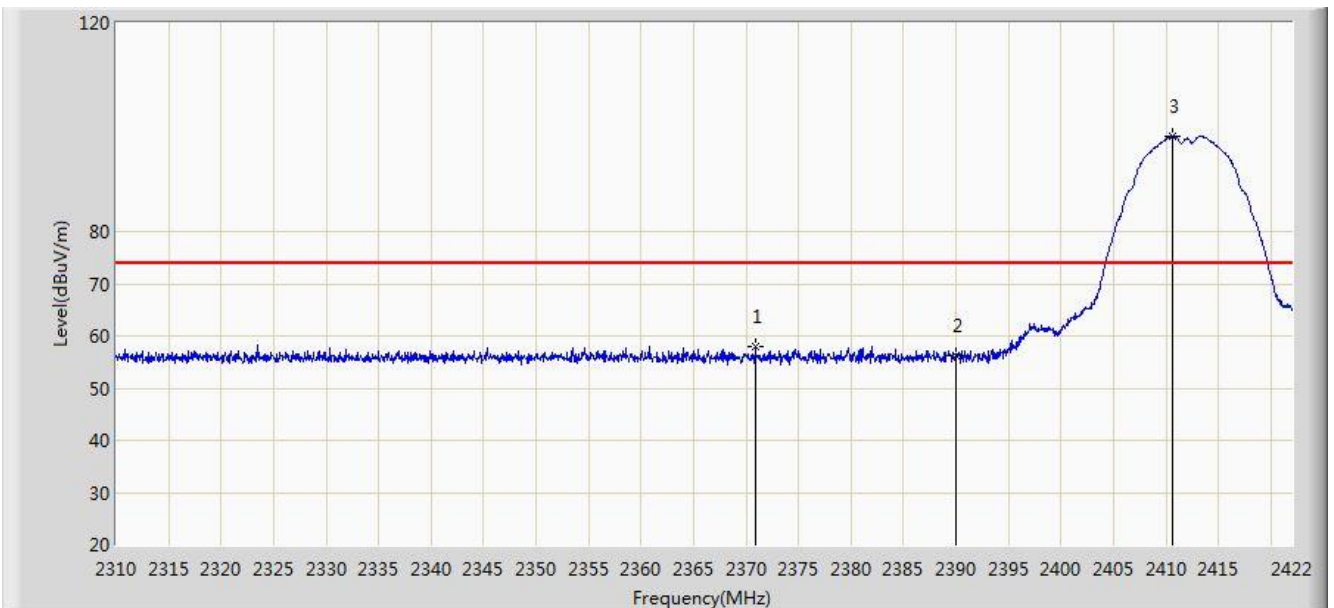


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 40.556                 | 9.353                | -13.444         | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2411.136        | 100.021                | 68.850               | N/A             | N/A            | 31.171      | AV   |

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 19:01 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at channel 2412MHz |                          |

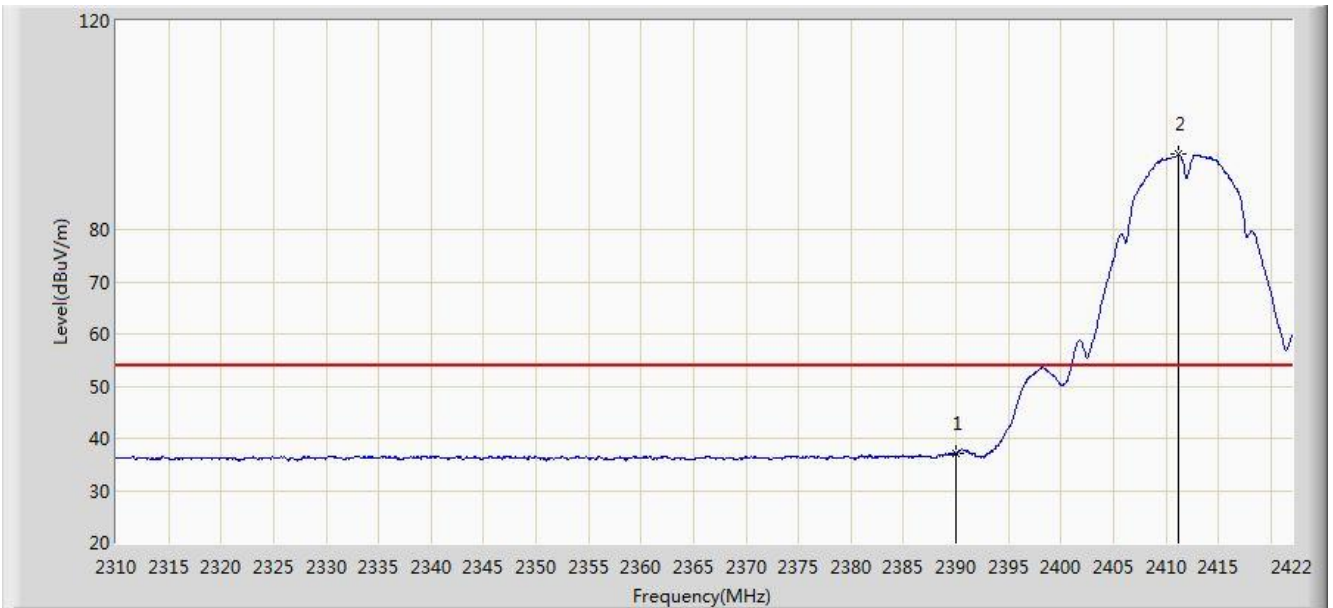


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2370.872        | 57.988                 | 26.750               | -16.012         | 74.000         | 31.239      | PK   |
| 2  |      |      | 2390.000        | 56.242                 | 25.039               | -17.758         | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2410.632        | 98.174                 | 67.002               | N/A             | N/A            | 31.172      | PK   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 19:04 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at channel 2412MHz |                          |

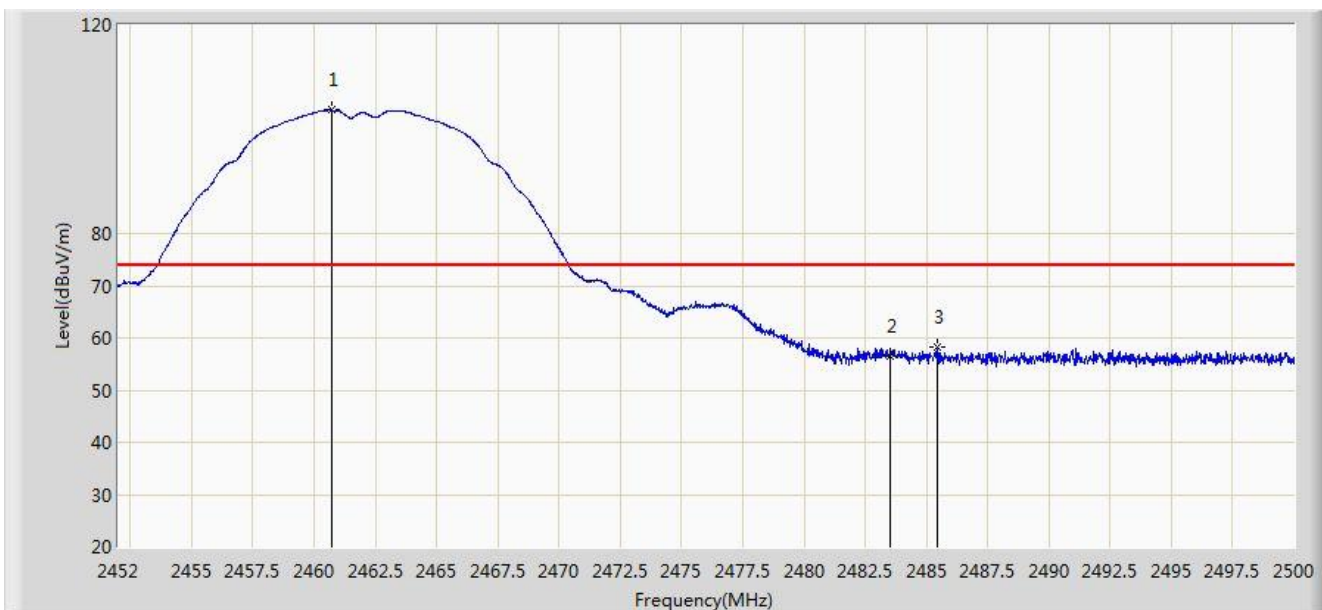


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 37.091                 | 5.888                | -16.909         | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2411.248        | 94.396                 | 63.225               | N/A             | N/A            | 31.171      | AV   |

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 19:05 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at channel 2462MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2460.712        | 103.631                | 72.498               | N/A             | N/A            | 31.133      | PK   |
| 2  |      |      | 2483.500        | 56.621                 | 25.428               | -17.379         | 74.000         | 31.194      | PK   |
| 3  |      |      | 2485.456        | 58.209                 | 27.011               | -15.791         | 74.000         | 31.198      | PK   |

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 19:08 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at channel 2462MHz |                          |

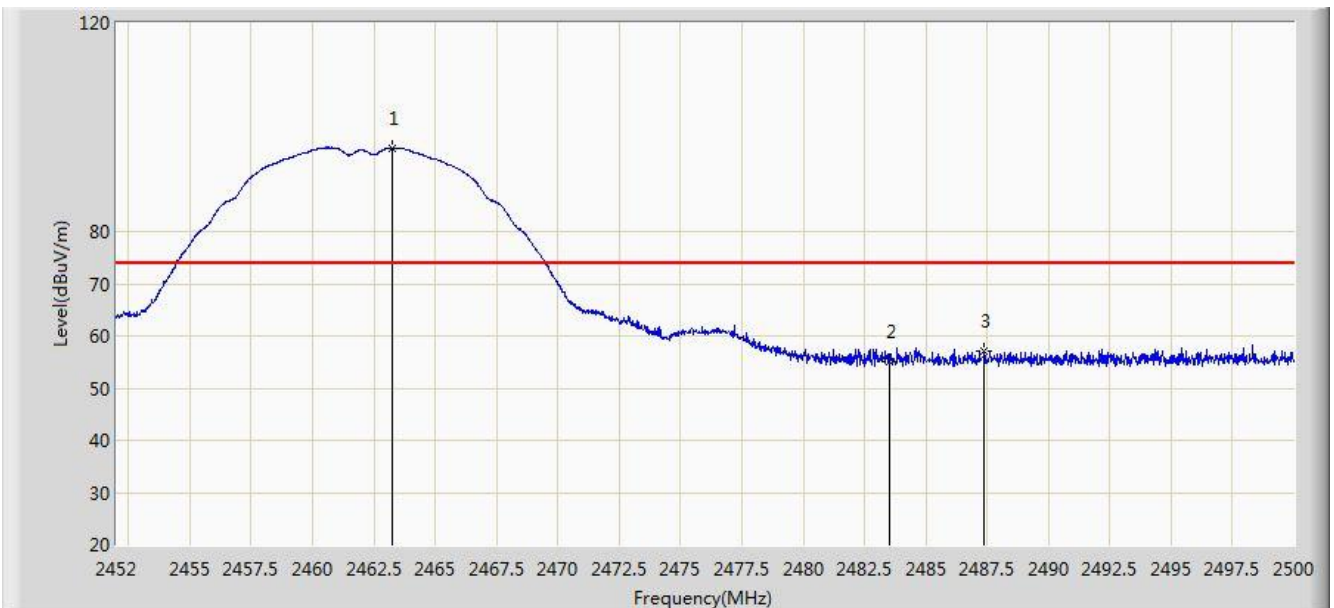


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2461.240        | 99.757                 | 68.623               | N/A             | N/A            | 31.134      | AV   |
| 2  |      |      | 2483.500        | 43.396                 | 12.203               | -10.604         | 54.000         | 31.194      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 19:09 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at channel 2462MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2463.256        | 95.987                 | 64.849               | N/A             | N/A            | 31.138      | PK   |
| 2  |      |      | 2483.500        | 55.049                 | 23.856               | -18.951         | 74.000         | 31.194      | PK   |
| 3  |      |      | 2487.376        | 57.203                 | 25.999               | -16.797         | 74.000         | 31.204      | PK   |

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 19:10 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11b at channel 2462MHz |                          |

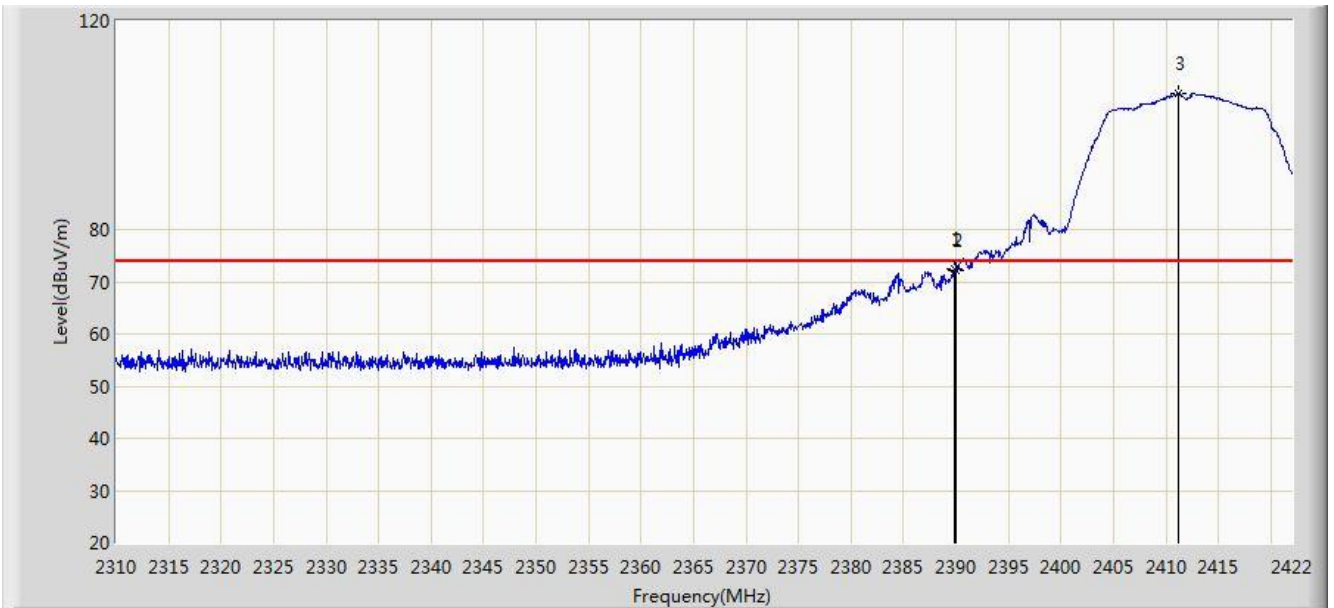


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2461.240        | 92.341                 | 61.207               | N/A             | N/A            | 31.134      | AV   |
| 2  |      |      | 2483.500        | 38.156                 | 6.963                | -15.844         | 54.000         | 31.194      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 19:22 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at channel 2412MHz |                          |

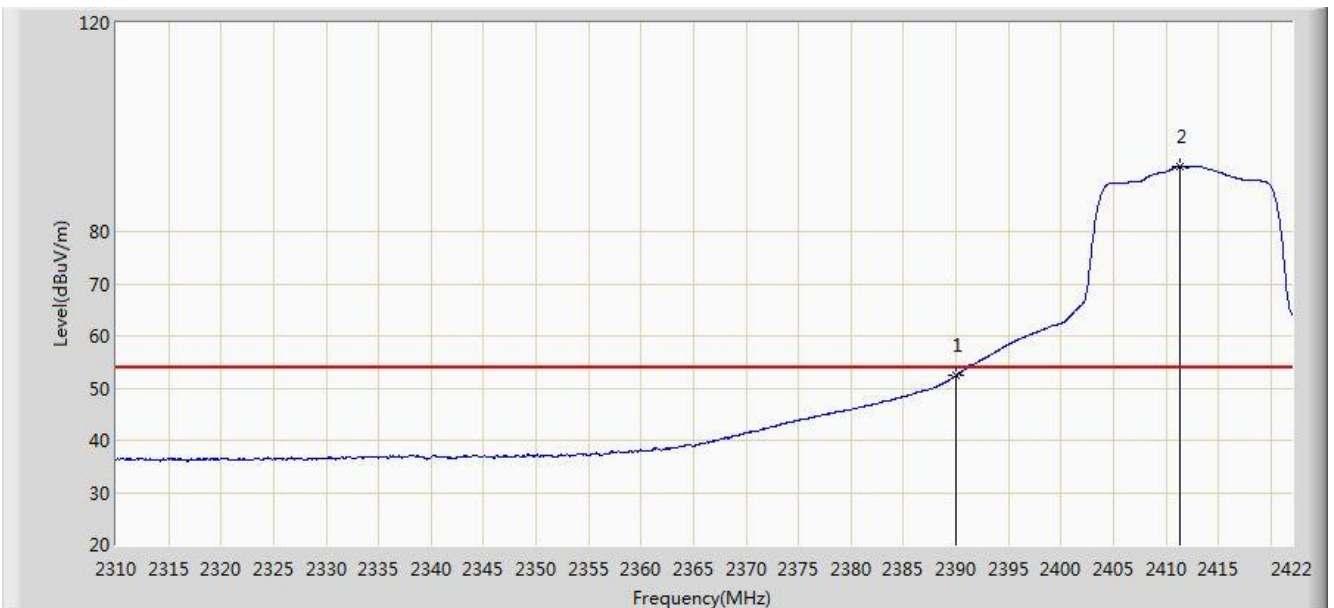


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2389.912        | 72.372                 | 41.169               | -1.628          | 74.000         | 31.203      | PK   |
| 2  |      |      | 2390.000        | 72.171                 | 40.968               | -1.829          | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2411.136        | 105.980                | 74.809               | N/A             | N/A            | 31.171      | PK   |

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 19:19 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at channel 2412MHz |                          |

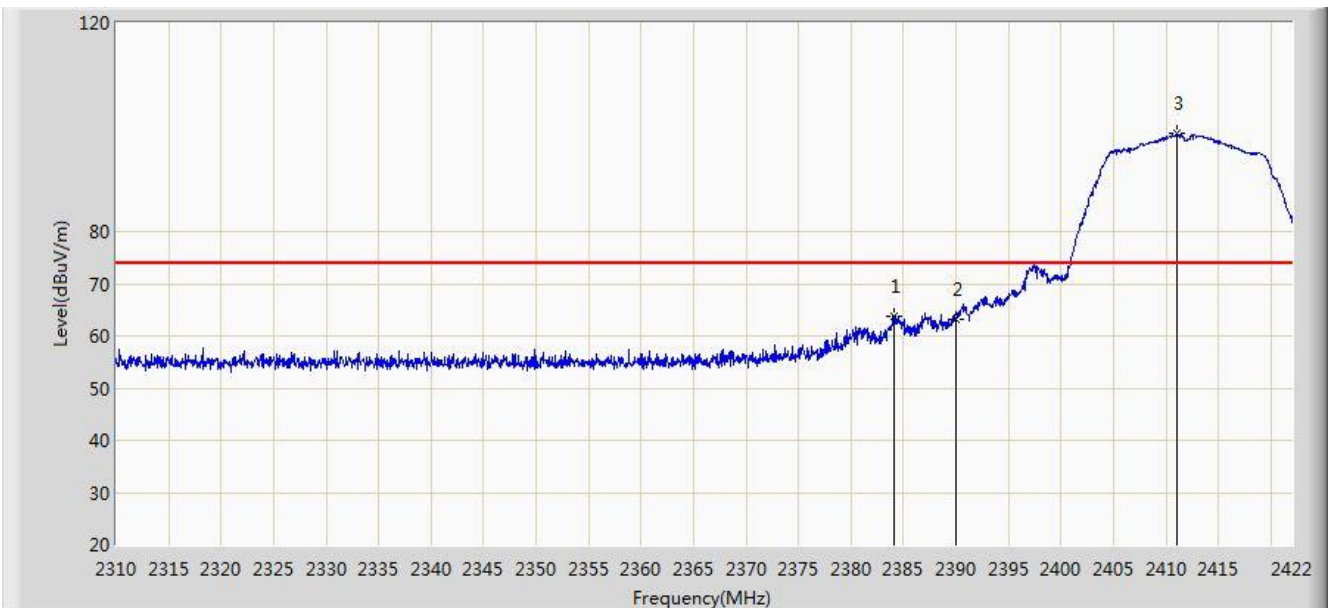


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 52.420                 | 21.217               | -1.580          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2411.304        | 92.477                 | 61.306               | N/A             | N/A            | 31.171      | AV   |

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 19:23 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at channel 2412MHz |                          |

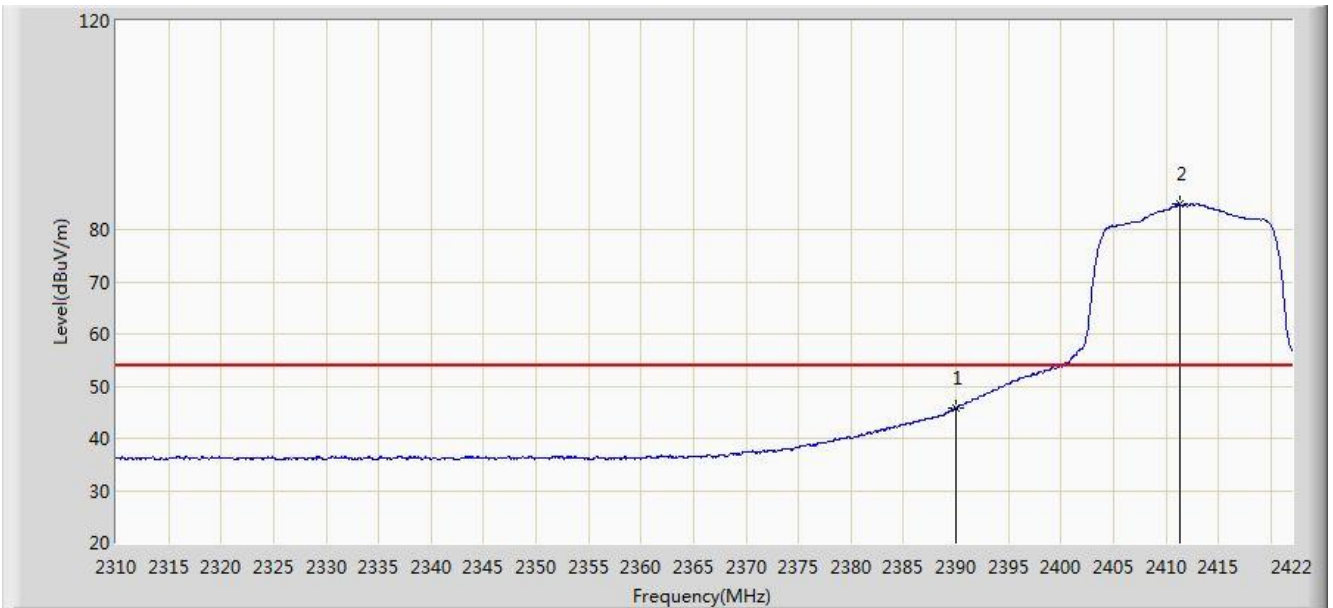


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2384.144        | 63.862                 | 32.649               | -10.138         | 74.000         | 31.213      | PK   |
| 2  |      |      | 2390.000        | 63.238                 | 32.035               | -10.762         | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2411.080        | 98.779                 | 67.608               | N/A             | N/A            | 31.171      | PK   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 19:23 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at channel 2412MHz |                          |

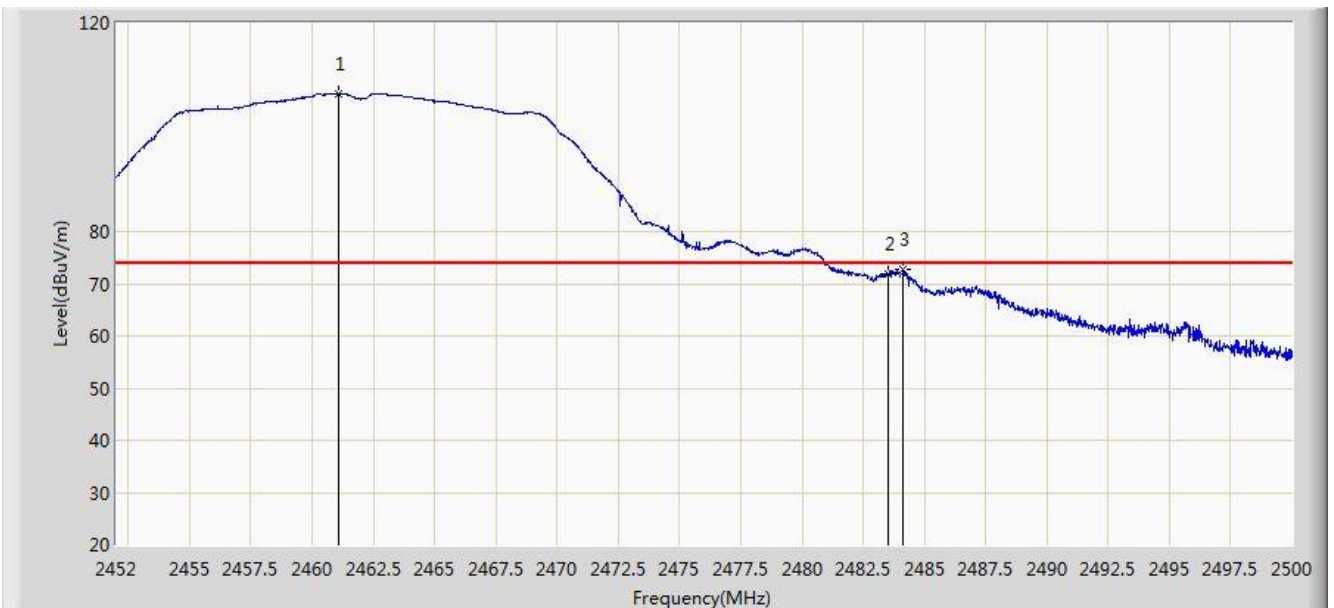


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 45.752                 | 14.549               | -8.248          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2411.304        | 84.793                 | 53.622               | N/A             | N/A            | 31.171      | AV   |

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 19:27 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at channel 2462MHz |                          |

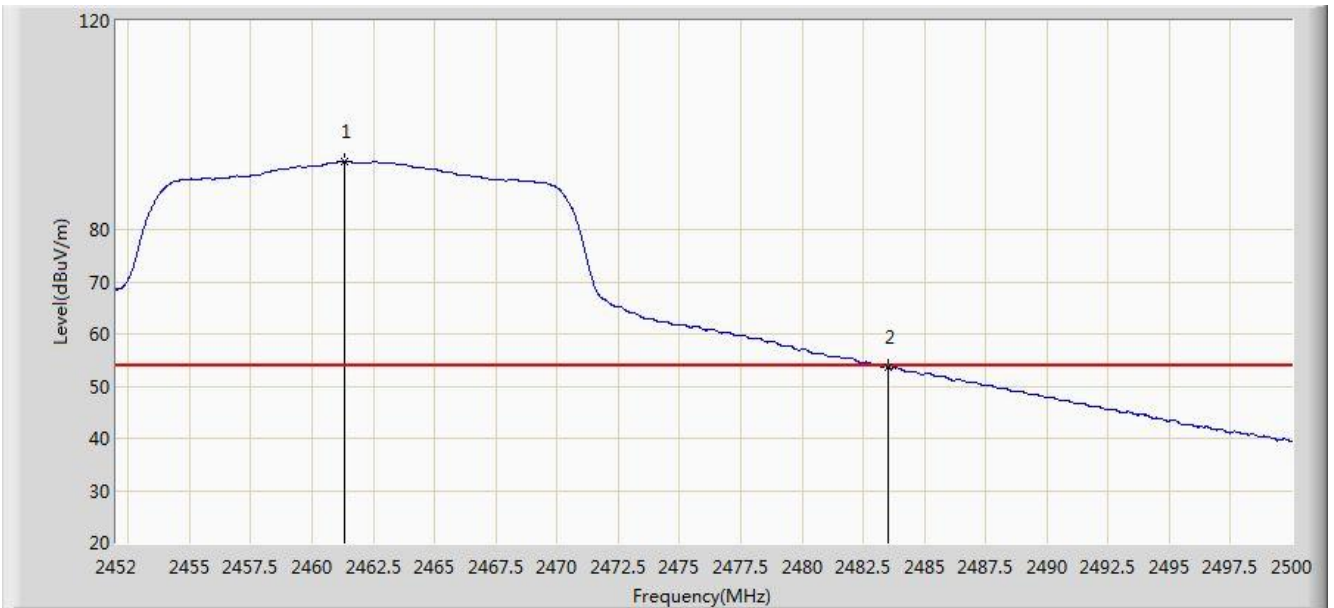


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2461.072        | 106.473                | 75.339               | N/A             | N/A            | 31.134      | PK   |
| 2  |      |      | 2483.500        | 71.961                 | 40.768               | -2.039          | 74.000         | 31.194      | PK   |
| 3  |      |      | 2484.136        | 72.670                 | 41.475               | -1.330          | 74.000         | 31.195      | PK   |

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 19:27 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Horizontal     |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at channel 2462MHz |                          |

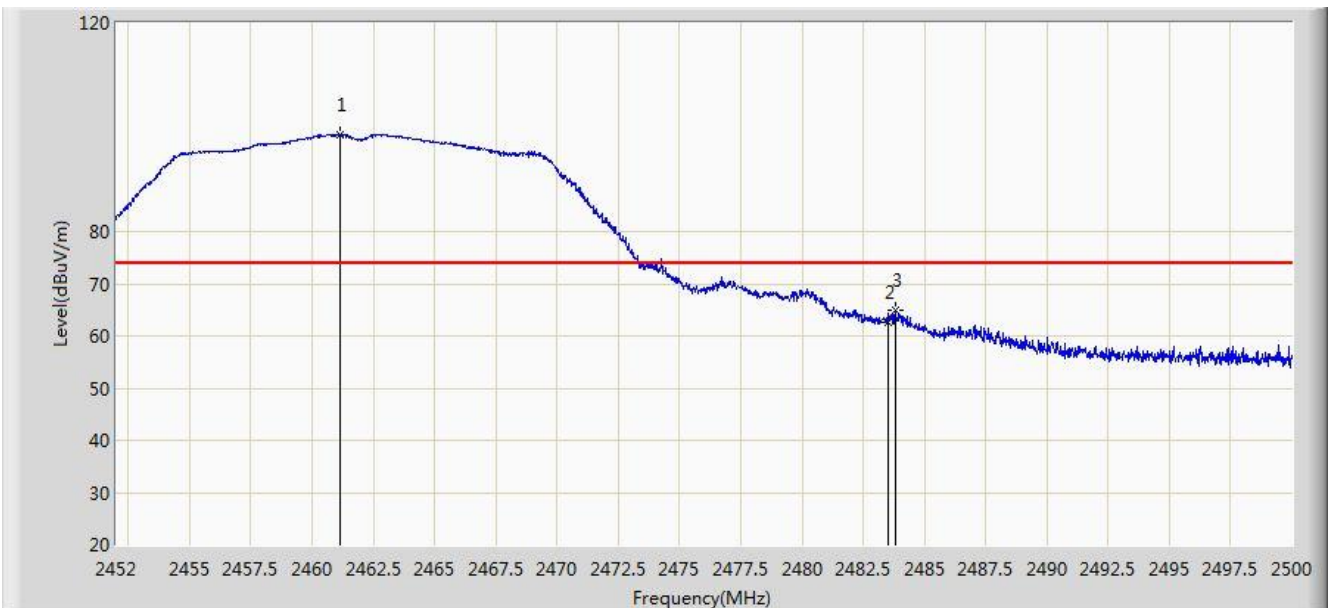


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2461.312        | 93.142                 | 62.008               | N/A             | N/A            | 31.134      | AV   |
| 2  |      |      | 2483.500        | 53.710                 | 22.517               | -0.290          | 54.000         | 31.194      | AV   |

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 19:28 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at channel 2462MHz |                          |

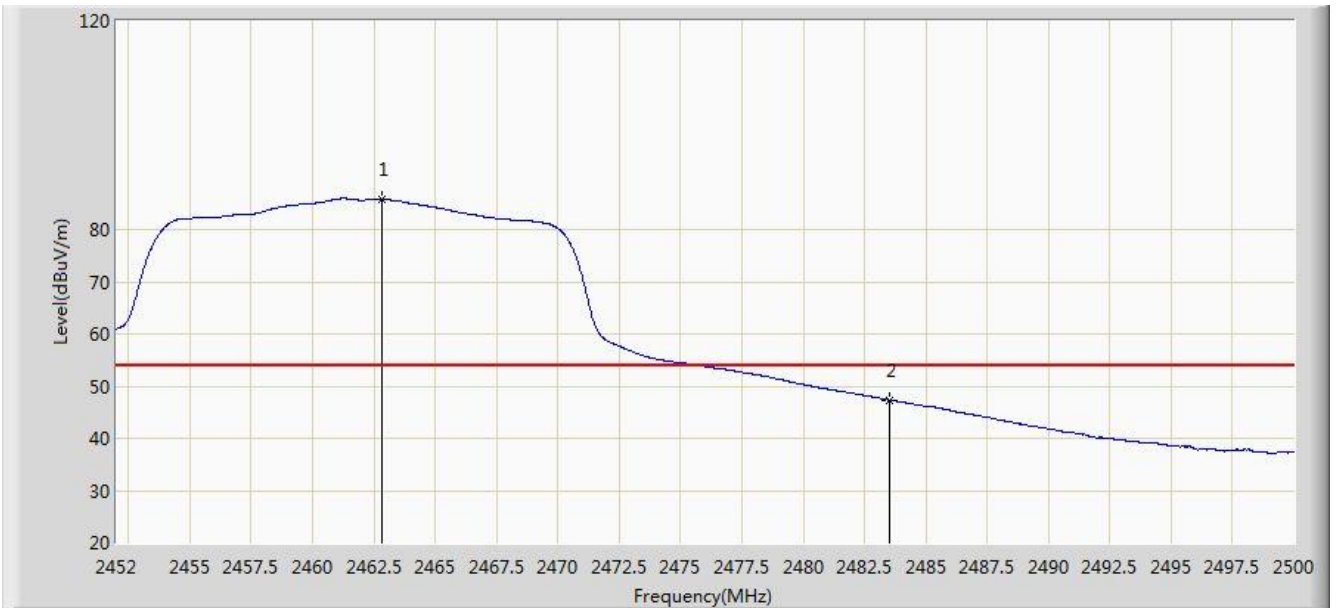


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2461.168        | 98.576                 | 67.442               | N/A             | N/A            | 31.134      | PK   |
| 2  |      |      | 2483.500        | 62.681                 | 31.488               | -11.319         | 74.000         | 31.194      | PK   |
| 3  |      |      | 2483.824        | 65.026                 | 33.832               | -8.974          | 74.000         | 31.194      | PK   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Site: AC1                                         | Time: 2017/11/29 - 19:30 |
| Limit: FCC_Part15.209_RE(3m)                      | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                          | Polarity: Vertical       |
| EUT: Cassia Bluetooth Router                      | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11g at channel 2462MHz |                          |

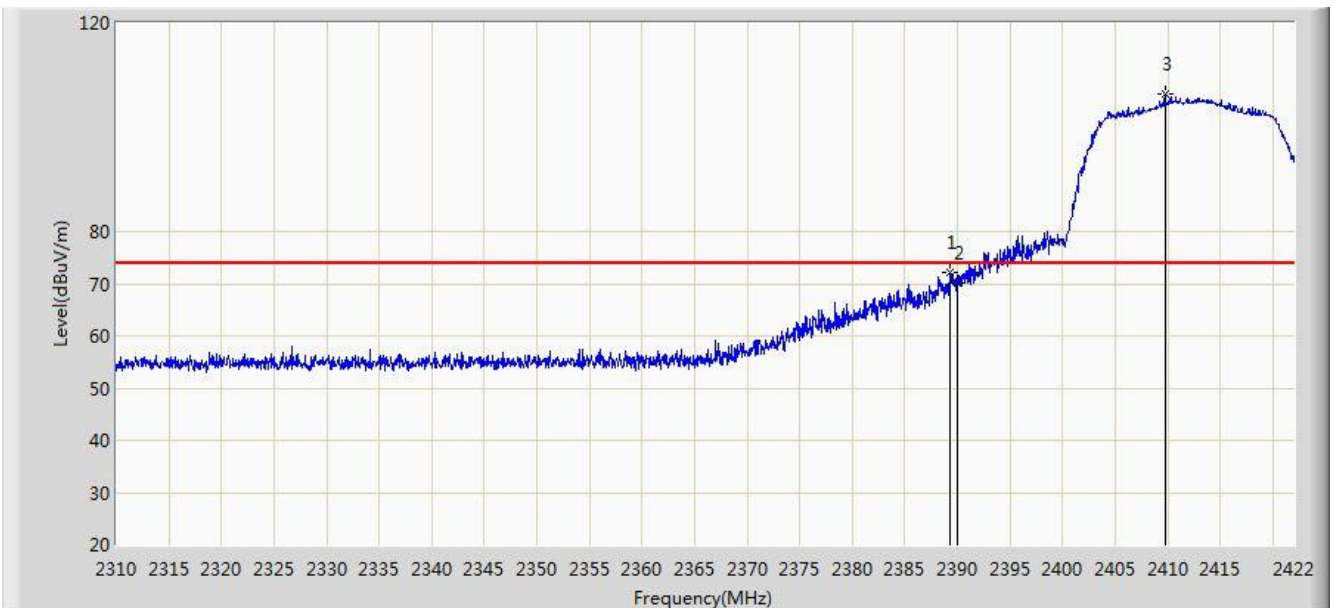


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2462.800        | 85.787                 | 54.650               | N/A             | N/A            | 31.137      | AV   |
| 2  |      |      | 2483.500        | 47.383                 | 16.190               | -6.617          | 54.000         | 31.194      | AV   |

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2017/11/29 - 19:41 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: Cassia Bluetooth Router                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz |                          |

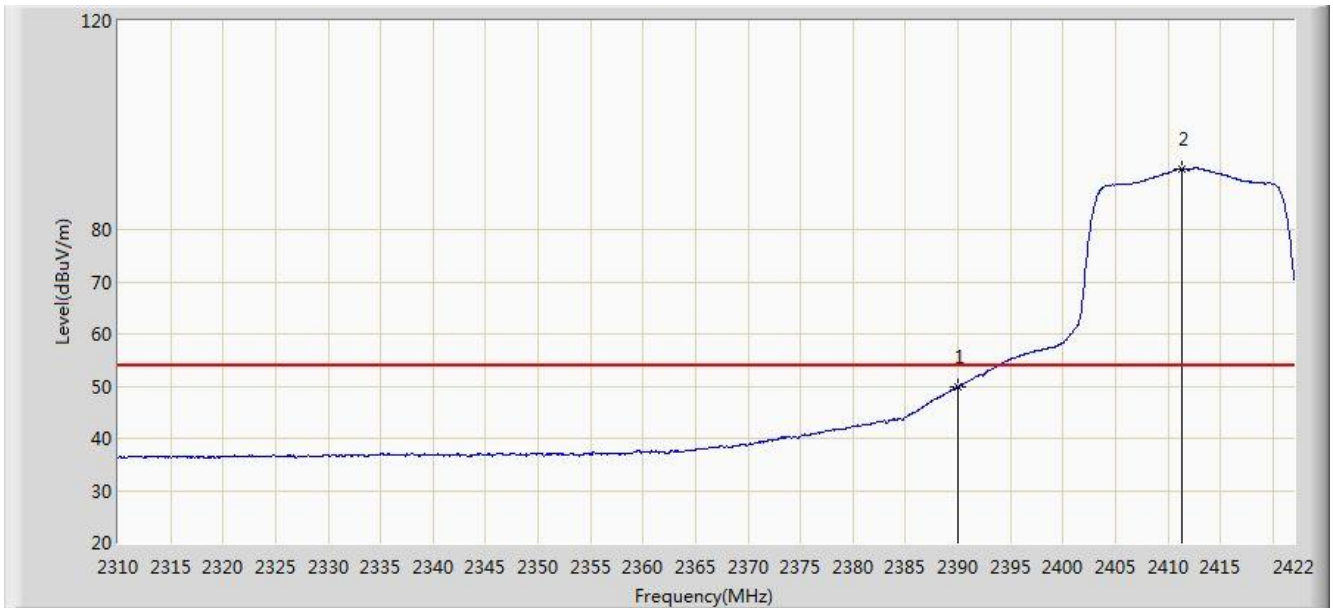


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2389.352        | 72.308                 | 41.104               | -1.692          | 74.000         | 31.203      | PK   |
| 2  |      |      | 2390.000        | 70.246                 | 39.043               | -3.754          | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2409.736        | 106.367                | 75.194               | N/A             | N/A            | 31.173      | PK   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2017/11/29 - 19:42 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: Cassia Bluetooth Router                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz |                          |

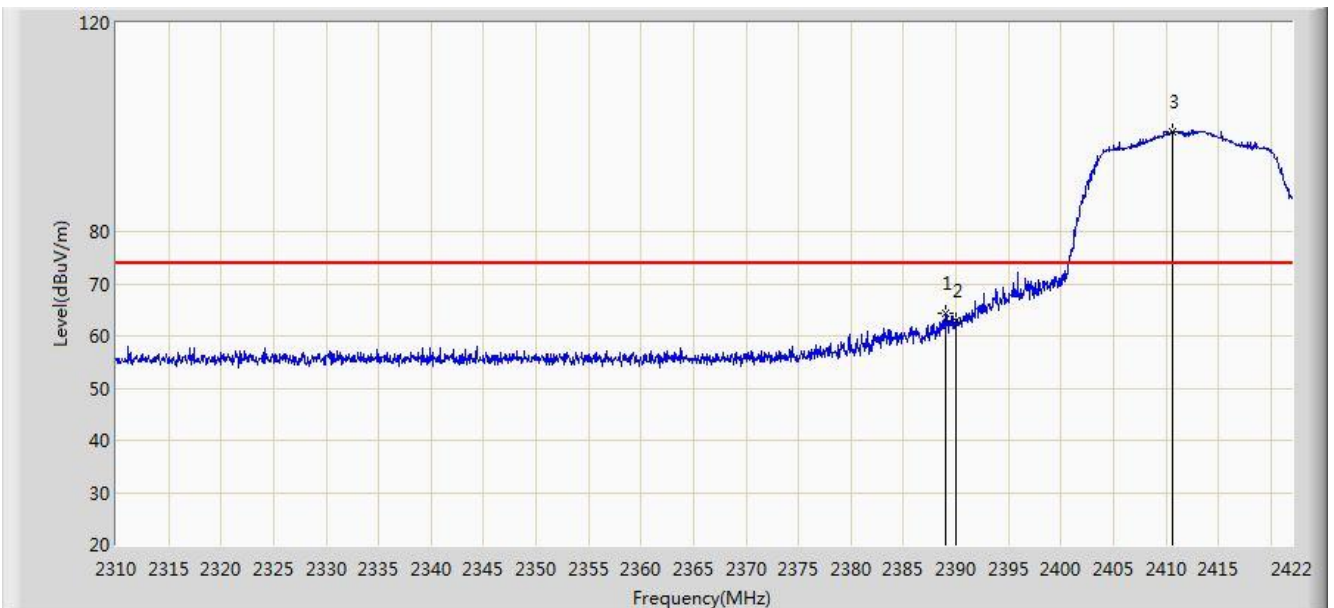


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 49.867                 | 18.664               | -4.133          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2411.304        | 91.664                 | 60.493               | N/A             | N/A            | 31.171      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2017/11/29 - 19:43 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: Cassia Bluetooth Router                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz |                          |

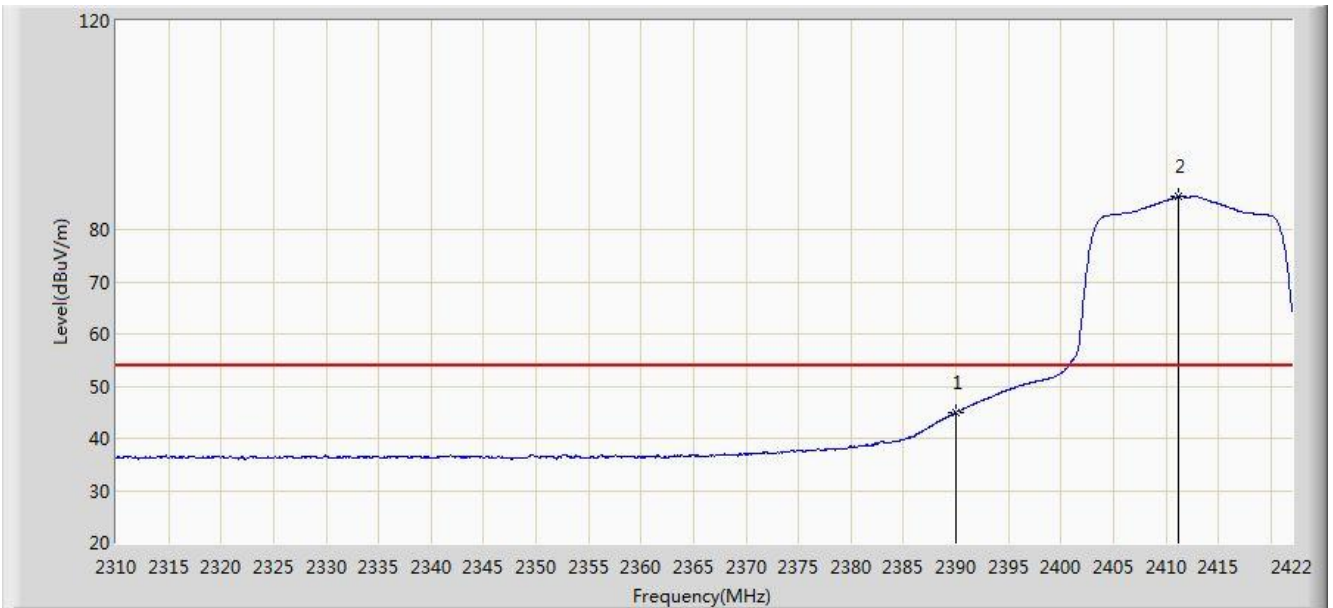


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2388.960        | 64.484                 | 33.279               | -9.516          | 74.000         | 31.204      | PK   |
| 2  |      |      | 2390.000        | 62.792                 | 31.589               | -11.208         | 74.000         | 31.203      | PK   |
| 3  |      | *    | 2410.632        | 99.070                 | 67.898               | N/A             | N/A            | 31.172      | PK   |

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2017/11/29 - 19:45 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: Cassia Bluetooth Router                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz |                          |

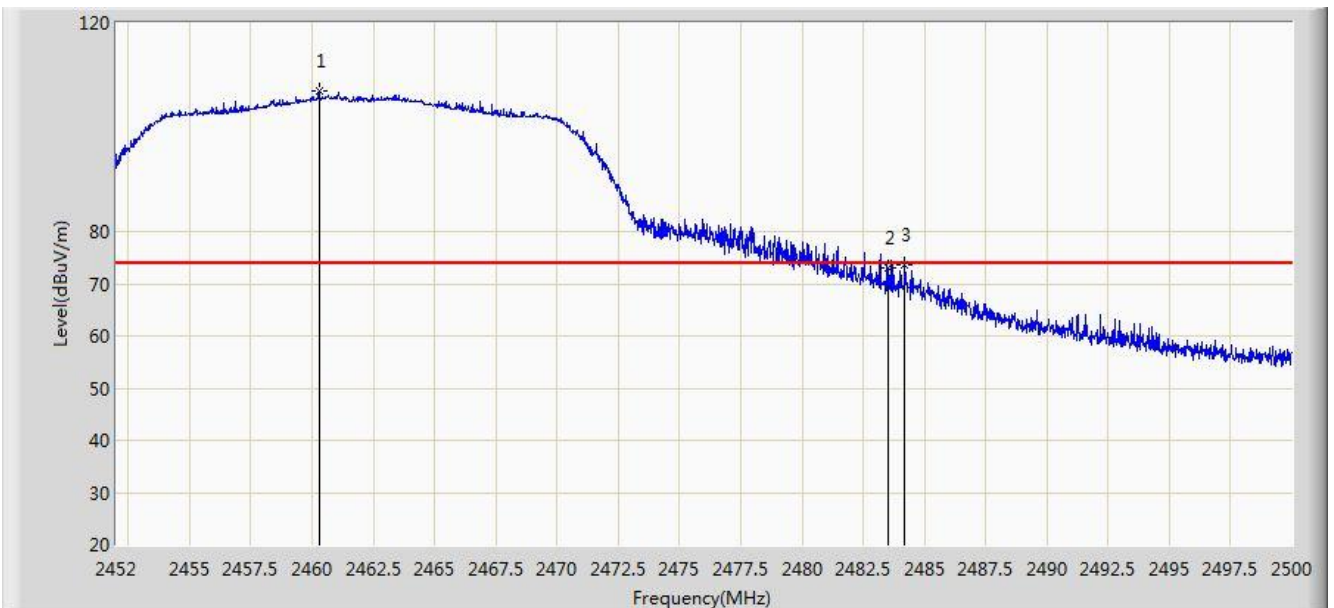


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2390.000        | 44.997                 | 13.794               | -9.003          | 54.000         | 31.203      | AV   |
| 2  |      | *    | 2411.136        | 86.313                 | 55.142               | N/A             | N/A            | 31.171      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2017/11/29 - 20:06 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: Cassia Bluetooth Router                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz |                          |

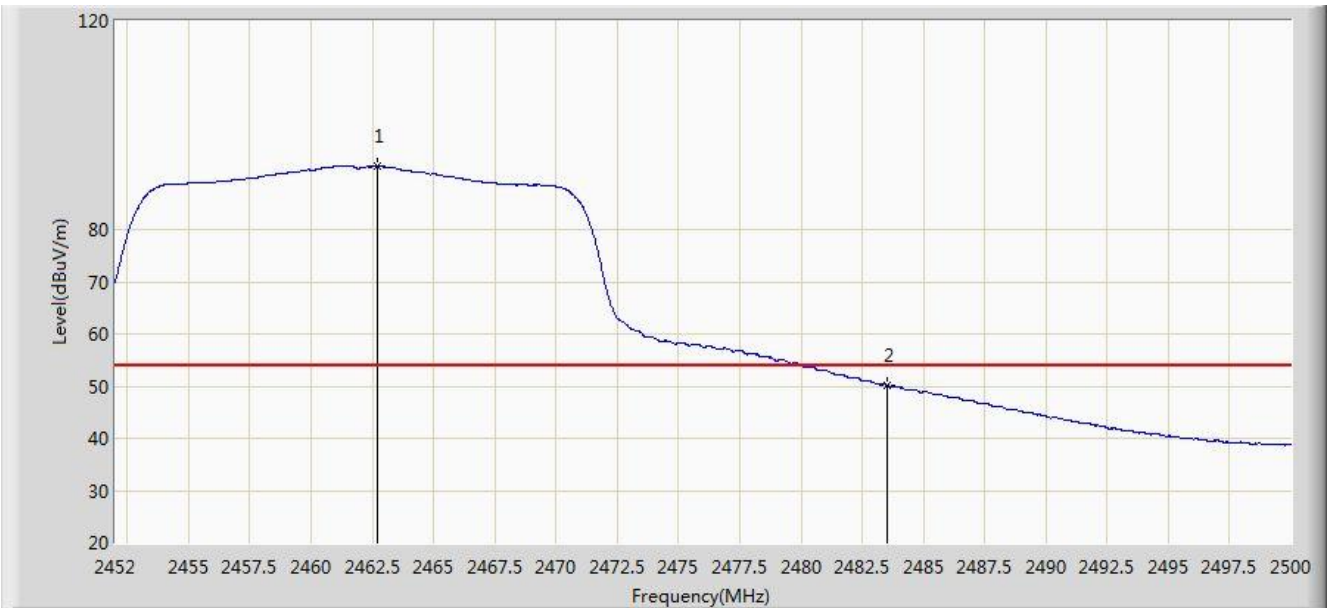


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2460.280        | 106.924                | 75.792               | N/A             | N/A            | 31.132      | PK   |
| 2  |      |      | 2483.500        | 73.188                 | 41.995               | -0.812          | 74.000         | 31.194      | PK   |
| 3  |      |      | 2484.184        | 73.711                 | 42.516               | -0.289          | 74.000         | 31.195      | PK   |

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2017/11/29 - 20:07 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Horizontal     |
| EUT: Cassia Bluetooth Router                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz |                          |

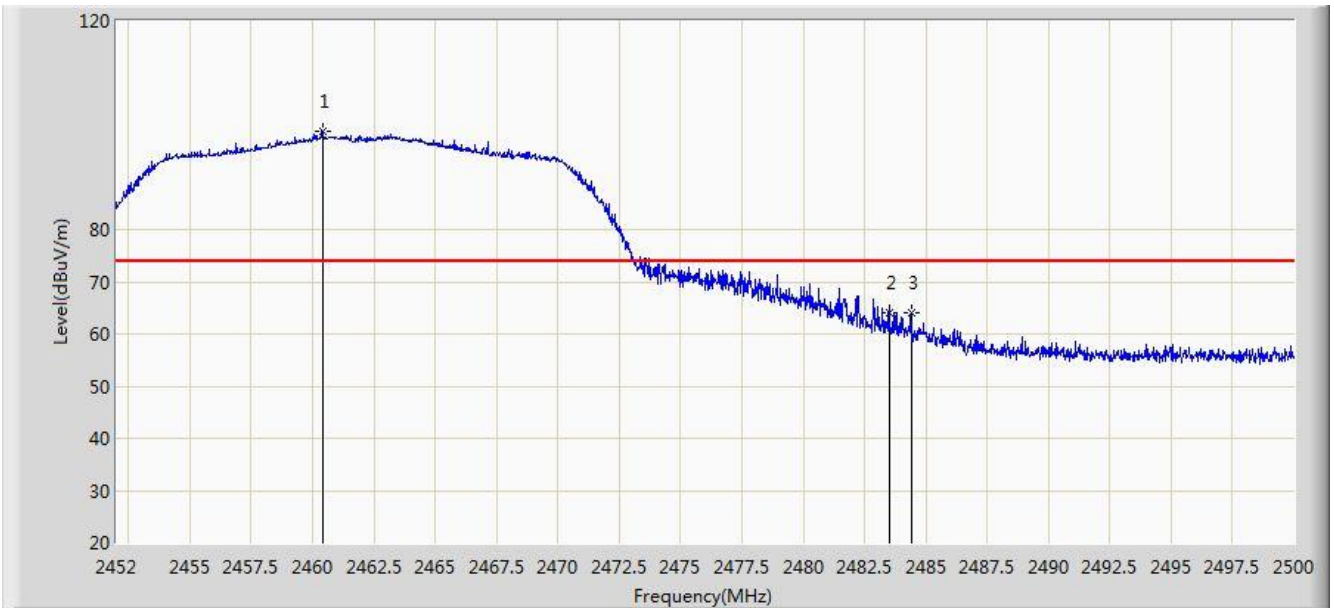


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2462.728        | 92.155                 | 61.018               | N/A             | N/A            | 31.137      | AV   |
| 2  |      |      | 2483.500        | 50.273                 | 19.080               | -3.727          | 54.000         | 31.194      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2017/11/29 - 20:07 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: Cassia Bluetooth Router                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz |                          |

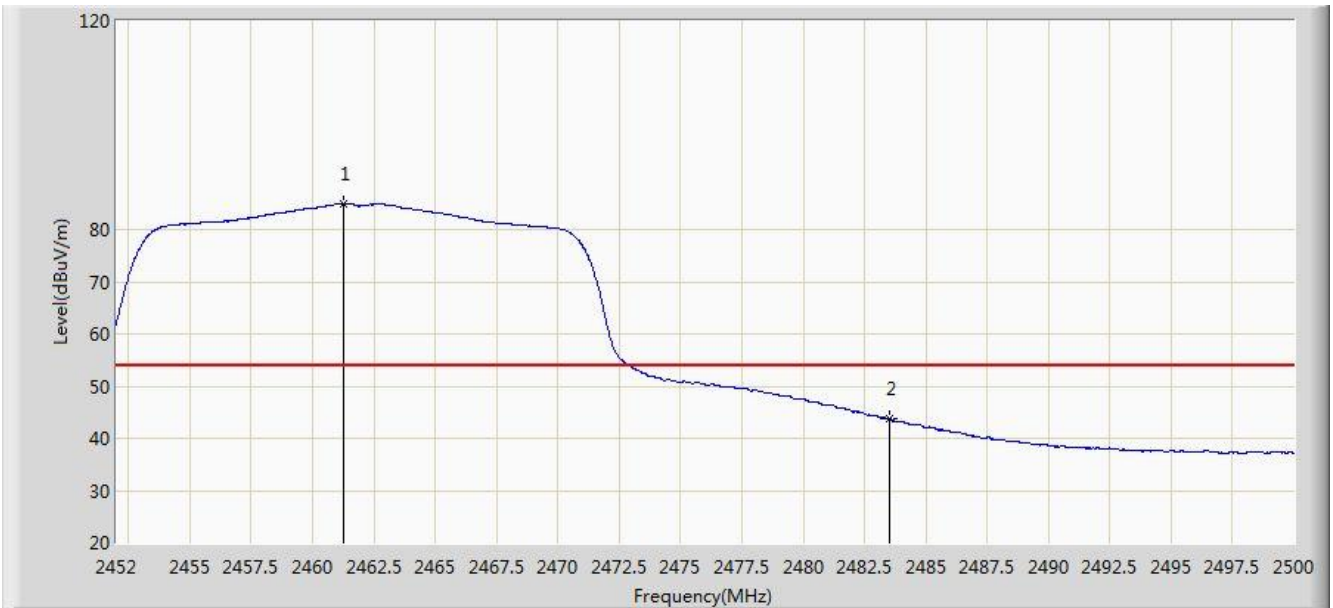


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2460.424        | 98.791                 | 67.658               | N/A             | N/A            | 31.133      | PK   |
| 2  |      |      | 2483.500        | 64.004                 | 32.811               | -9.996          | 74.000         | 31.194      | PK   |
| 3  |      |      | 2484.424        | 64.052                 | 32.856               | -9.948          | 74.000         | 31.195      | PK   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

|                                                        |                          |
|--------------------------------------------------------|--------------------------|
| Site: AC1                                              | Time: 2017/11/29 - 20:09 |
| Limit: FCC_Part15.209_RE(3m)                           | Engineer: Alex Ma        |
| Probe: BBHA9120D_1-18GHz                               | Polarity: Vertical       |
| EUT: Cassia Bluetooth Router                           | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | *    | 2461.240        | 84.897                 | 53.763               | N/A             | N/A            | 31.134      | AV   |
| 2  |      |      | 2483.500        | 43.723                 | 12.530               | -10.277         | 54.000         | 31.194      | AV   |

Test Mode: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

## 7.8. AC Conducted Emissions Measurement

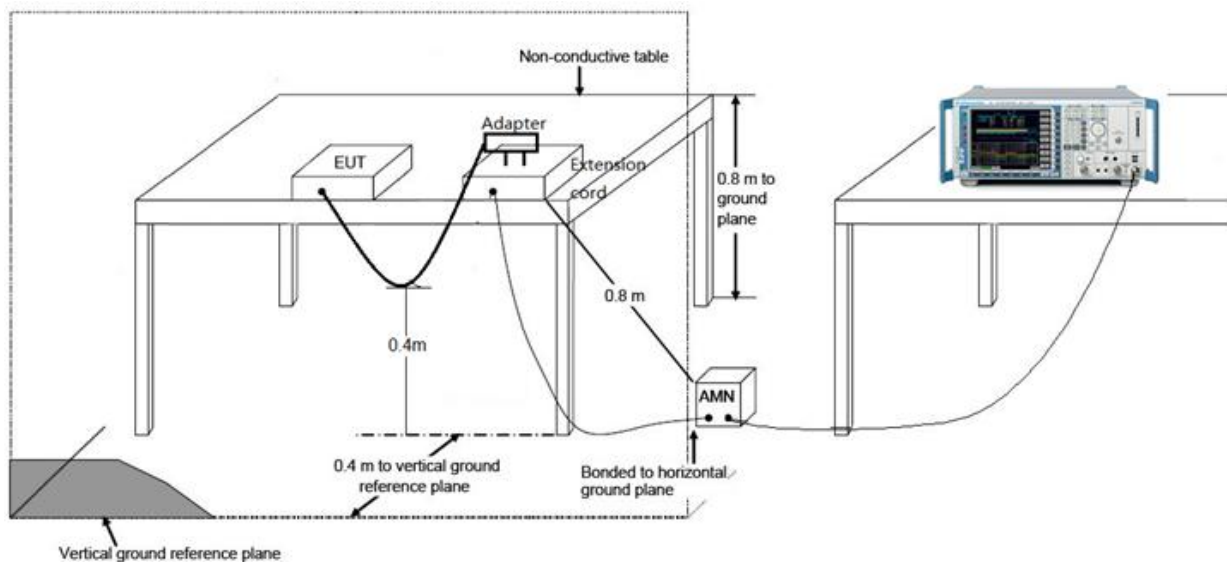
### 7.8.1. Test Limit

| 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.

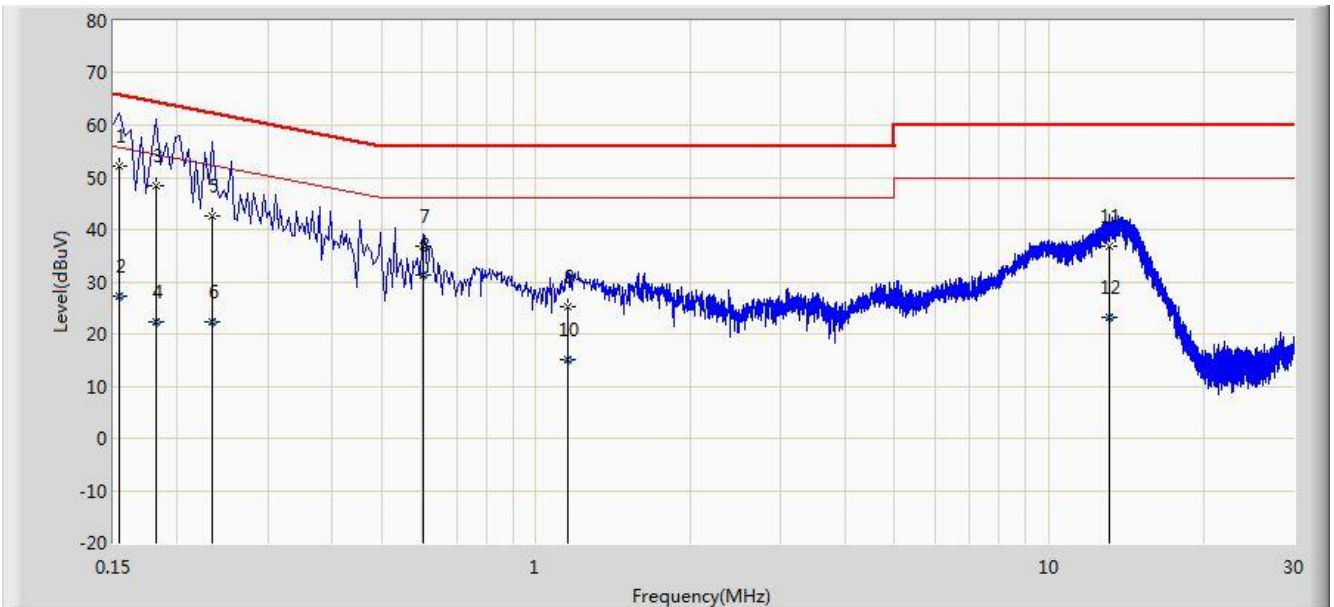
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 7.8.2. Test Setup



### 7.8.3.Test Result

|                                   |                          |
|-----------------------------------|--------------------------|
| Site: SR2                         | Time: 2017/12/13 - 13:26 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Cat Hu         |
| Probe: ENV216_101683_Filter On    | Polarity: Line           |
| EUT: Cassia Bluetooth Router      | Power: AC 120V/60Hz      |
| Test Mode: Mode 1                 |                          |

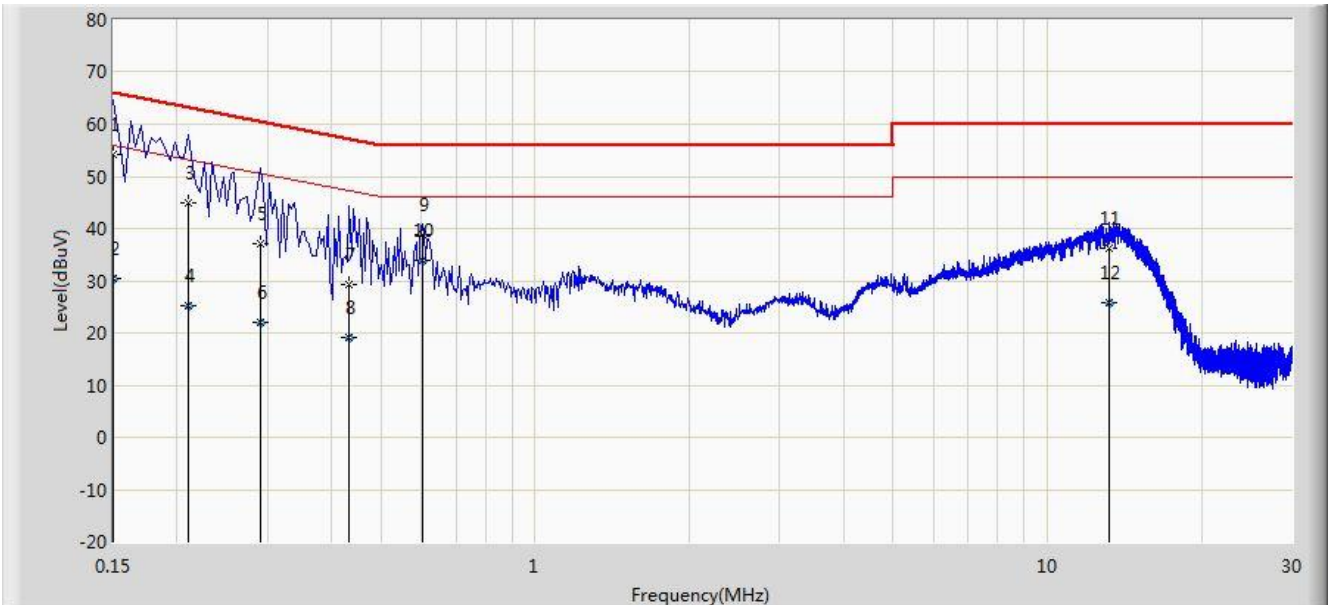


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1  |      | *    | 0.154           | 52.281               | 41.541               | -13.501         | 65.781       | 10.740      | QP   |
| 2  |      |      | 0.154           | 27.129               | 16.389               | -28.652         | 55.781       | 10.740      | AV   |
| 3  |      |      | 0.182           | 48.330               | 38.282               | -16.064         | 64.394       | 10.048      | QP   |
| 4  |      |      | 0.182           | 22.424               | 12.376               | -31.969         | 54.394       | 10.048      | AV   |
| 5  |      |      | 0.234           | 42.714               | 32.763               | -19.593         | 62.307       | 9.951       | QP   |
| 6  |      |      | 0.234           | 22.261               | 12.311               | -30.045         | 52.307       | 9.951       | AV   |
| 7  |      |      | 0.602           | 36.798               | 26.684               | -19.202         | 56.000       | 10.114      | QP   |
| 8  |      |      | 0.602           | 31.341               | 21.228               | -14.659         | 46.000       | 10.114      | AV   |
| 9  |      |      | 1.154           | 25.351               | 15.448               | -30.649         | 56.000       | 9.904       | QP   |
| 10 |      |      | 1.154           | 15.108               | 5.204                | -30.892         | 46.000       | 9.904       | AV   |
| 11 |      |      | 13.086          | 36.877               | 26.804               | -23.123         | 60.000       | 10.073      | QP   |
| 12 |      |      | 13.086          | 23.122               | 13.049               | -26.878         | 50.000       | 10.073      | AV   |

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

|                                   |                          |
|-----------------------------------|--------------------------|
| Site: SR2                         | Time: 2017/12/13 - 15:35 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Bruce Wang     |
| Probe: ENV216_101683_Filter On    | Polarity: Neutral        |
| EUT: Cassia Bluetooth Router      | Power: AC 120V/60Hz      |
| Test Mode: Mode 1                 |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1  |      | *    | 0.150           | 54.157               | 43.015               | -11.843         | 66.000       | 11.142      | QP   |
| 2  |      |      | 0.150           | 30.365               | 19.223               | -25.635         | 56.000       | 11.142      | AV   |
| 3  |      |      | 0.210           | 44.993               | 34.998               | -18.213         | 63.205       | 9.995       | QP   |
| 4  |      |      | 0.210           | 25.098               | 15.103               | -28.107         | 53.205       | 9.995       | AV   |
| 5  |      |      | 0.290           | 37.233               | 27.202               | -23.292         | 60.524       | 10.030      | QP   |
| 6  |      |      | 0.290           | 21.952               | 11.921               | -28.573         | 50.524       | 10.030      | AV   |
| 7  |      |      | 0.434           | 29.353               | 19.215               | -27.823         | 57.176       | 10.138      | QP   |
| 8  |      |      | 0.434           | 19.134               | 8.996                | -28.042         | 47.176       | 10.138      | AV   |
| 9  |      |      | 0.602           | 38.717               | 28.587               | -17.283         | 56.000       | 10.130      | QP   |
| 10 |      |      | 0.602           | 33.921               | 23.791               | -12.079         | 46.000       | 10.130      | AV   |
| 11 |      |      | 13.238          | 36.252               | 26.156               | -23.748         | 60.000       | 10.096      | QP   |
| 12 |      |      | 13.238          | 25.917               | 15.820               | -24.083         | 50.000       | 10.096      | AV   |

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

## 8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Cassia Bluetooth Router** is in compliance with Part 15C of the FCC Rules and IC Rules.

\_\_\_\_\_ The End \_\_\_\_\_