| 2DH5 Conducted Spurious Emissions | |
|---|---|
| **Channel 00 (2402MHz)** | **Channel 39 (2441MHz)** |
|  |  |
| **Channel 78 (2480MHz)** | **--** |
|  | -- |

| 3DH5 Conducted Spurious Emissions | |
|---|---|
| **Channel 00 (2402MHz)** | **Channel 39 (2441MHz)** |
|  |  |
| **Channel 78 (2480MHz)** | **--** |
|  | -- |

## 7.9. Radiated Spurious Emission Measurement

### 7.9.1.Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47

CFR must not exceed the limits shown in Table per Section 15.209.

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

### 7.9.2.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)

### 7.9.3.Test Setting

**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

**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 |
| > 1000 MHz | 1 MHz |

**Peak Measurements above 1GHz**

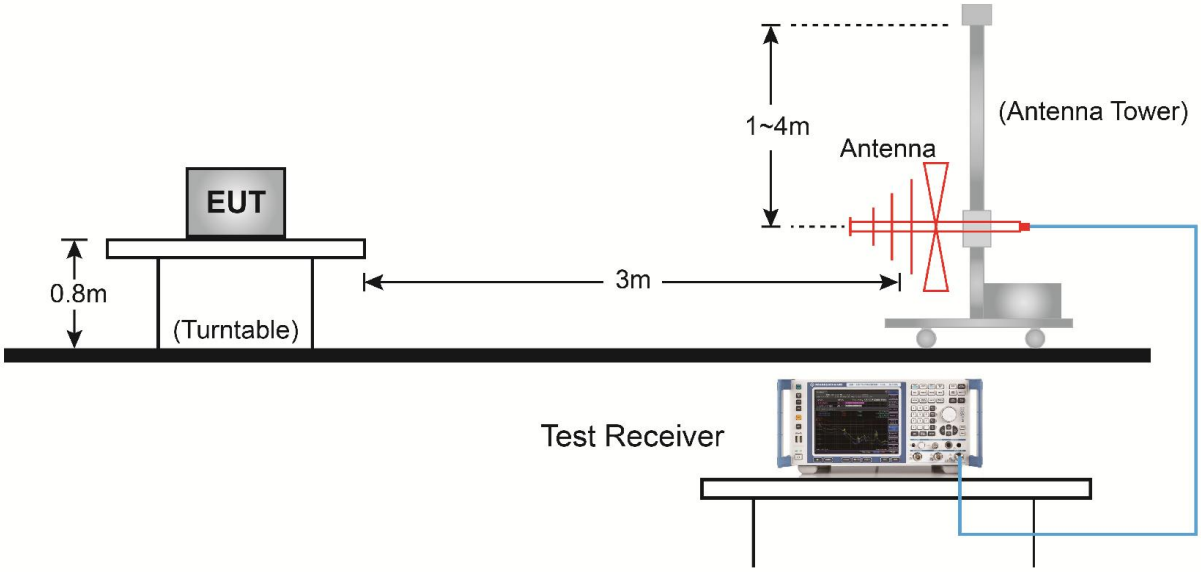
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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

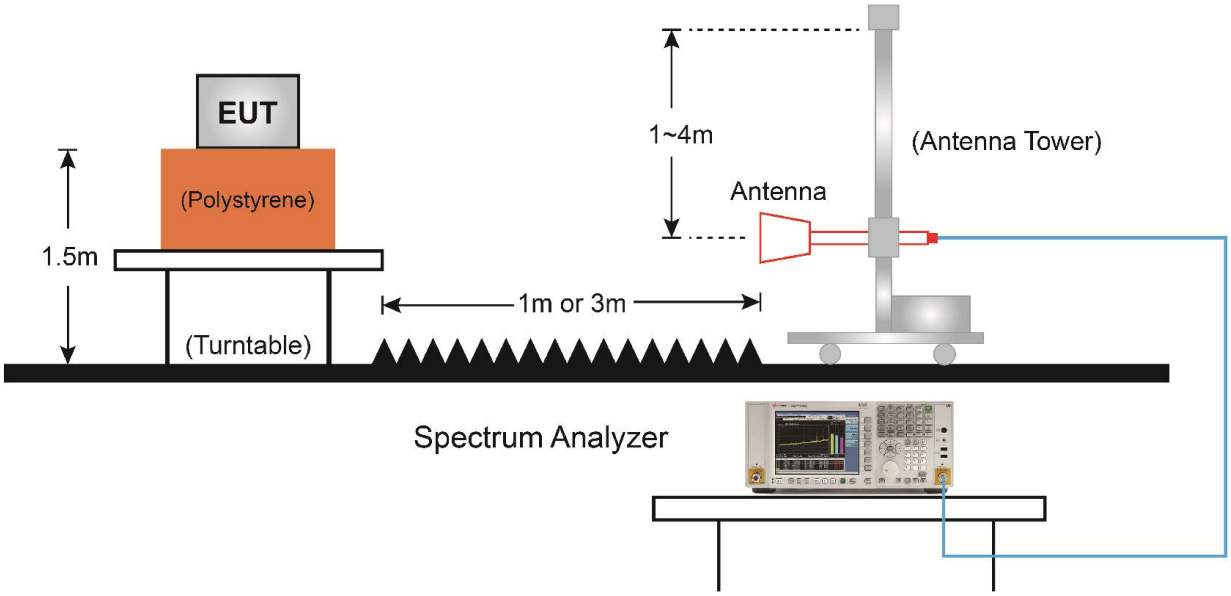
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.
4. Detector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

### 7.9.4.Test Setup

Below 1GHz Test Setup:




Above 1GHz Test Setup:



### 7.9.5.Test Result

| Product | Radio DÅNDIMPEN | Temperature | 25°C |
|---|---|---|---|
| Test Engineer | David Lv | Relative Humidity | 56% |
| Test Site | AC2 | Test Date | 2019/09/25 |
| Test Mode: | DH5 | Test Channel: | 00 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 4136.5 | 37.3 | 1.0 | 38.3 | 74.0 | -35.7 | Peak | Horizontal |
| | 4808.0 | 42.0 | 3.5 | 45.5 | 74.0 | -28.5 | Peak | Horizontal |
| * | 5870.5 | 34.4 | 6.1 | 40.5 | 74.0 | -33.5 | Peak | Horizontal |
| * | 6635.5 | 34.3 | 8.3 | 42.6 | 74.0 | -31.4 | Peak | Horizontal |
| | 4136.5 | 37.3 | 1.0 | 38.3 | 74.0 | -35.7 | Peak | Vertical |
| | 4808.0 | 42.4 | 3.5 | 45.9 | 74.0 | -28.1 | Peak | Vertical |
| * | 6253.0 | 35.1 | 6.9 | 42.0 | 74.0 | -32.0 | Peak | Vertical |
| * | 6678.0 | 33.4 | 8.5 | 41.9 | 74.0 | -32.1 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (96.4dBμV/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)

| Product | Radio DÅNDIMPEN | Temperature | 25°C |
|---|---|---|---|
| Test Engineer | David Lv | Relative Humidity | 56% |
| Test Site | AC2 | Test Date | 2019/09/25 |
| Test Mode: | DH5 | Test Channel: | 39 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 4179.0 | 37.9 | 1.2 | 39.1 | 74.0 | -34.9 | Peak | Horizontal |
| | 4884.5 | 42.1 | 3.5 | 45.6 | 74.0 | -28.4 | Peak | Horizontal |
| * | 5607.0 | 36.5 | 4.5 | 41.0 | 74.0 | -33.0 | Peak | Horizontal |
| * | 6865.0 | 33.7 | 9.5 | 43.2 | 74.0 | -30.8 | Peak | Horizontal |
| | 4111.0 | 37.6 | 0.9 | 38.5 | 74.0 | -35.5 | Peak | Vertical |
| | 4884.5 | 43.2 | 3.5 | 46.7 | 74.0 | -27.3 | Peak | Vertical |
| * | 6057.5 | 35.3 | 6.1 | 41.4 | 74.0 | -32.6 | Peak | Vertical |
| * | 6958.5 | 33.5 | 10.1 | 43.6 | 74.0 | -30.4 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (95.9dBμV/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)

| Product | Radio DÅNDIMPEN | Temperature | 25°C |
|---|---|---|---|
| Test Engineer | David Lv | Relative Humidity | 56% |
| Test Site | AC2 | Test Date | 2019/09/25 |
| Test Mode: | DH5 | Test Channel: | 78 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 4111.0 | 37.1 | 0.9 | 38.0 | 74.0 | -36.0 | Peak | Horizontal |
| | 4961.0 | 42.9 | 3.5 | 46.4 | 74.0 | -27.6 | Peak | Horizontal |
| * | 6389.0 | 34.8 | 7.4 | 42.2 | 74.0 | -31.8 | Peak | Horizontal |
| * | 7026.5 | 33.1 | 10.6 | 43.7 | 74.0 | -30.3 | Peak | Horizontal |
| | 3983.5 | 37.3 | 0.3 | 37.6 | 74.0 | -36.4 | Peak | Vertical |
| | 4961.0 | 43.2 | 3.5 | 46.7 | 74.0 | -27.3 | Peak | Vertical |
| * | 6134.0 | 34.7 | 6.4 | 41.1 | 74.0 | -32.9 | Peak | Vertical |
| * | 6975.5 | 33.1 | 10.3 | 43.4 | 74.0 | -30.6 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (95.5dBμV/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)

| Product | Radio DÅNDIMPEN | Temperature | 25°C |
|---|---|---|---|
| Test Engineer | David Lv | Relative Humidity | 56% |
| Test Site | AC2 | Test Date | 2019/09/25 |
| Test Mode: | 2DH5 | Test Channel: | 00 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 4119.5 | 37.3 | 0.9 | 38.2 | 74.0 | -35.8 | Peak | Horizontal |
| | 4808.0 | 42.6 | 3.5 | 46.1 | 74.0 | -27.9 | Peak | Horizontal |
| * | 5964.0 | 35.5 | 5.8 | 41.3 | 74.0 | -32.7 | Peak | Horizontal |
| * | 6967.0 | 34.7 | 10.2 | 44.9 | 74.0 | -29.1 | Peak | Horizontal |
| | 3966.5 | 37.8 | 0.2 | 38.0 | 74.0 | -36.0 | Peak | Vertical |
| | 4808.0 | 44.2 | 3.5 | 47.7 | 74.0 | -26.3 | Peak | Vertical |
| * | 6270.0 | 34.3 | 6.9 | 41.2 | 74.0 | -32.8 | Peak | Vertical |
| * | 6754.5 | 34.2 | 8.8 | 43.0 | 74.0 | -31.0 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (98.8dBμV/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)

| Product | Radio DÅNDIMPEN | Temperature | 25°C |
|---|---|---|---|
| Test Engineer | David Lv | Relative Humidity | 56% |
| Test Site | AC2 | Test Date | 2019/09/25 |
| Test Mode: | 2DH5 | Test Channel: | 39 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 3856.0 | 37.7 | 0.0 | 37.7 | 74.0 | -36.3 | Peak | Horizontal |
| | 4884.5 | 43.9 | 3.5 | 47.4 | 74.0 | -26.6 | Peak | Horizontal |
| * | 6185.0 | 35.6 | 6.8 | 42.4 | 74.0 | -31.6 | Peak | Horizontal |
| * | 6593.0 | 34.3 | 8.1 | 42.4 | 74.0 | -31.6 | Peak | Horizontal |
| | 4187.5 | 37.3 | 1.3 | 38.6 | 74.0 | -35.4 | Peak | Vertical |
| | 4884.5 | 44.2 | 3.5 | 47.7 | 74.0 | -26.3 | Peak | Vertical |
| * | 6015.0 | 34.9 | 6.0 | 40.9 | 74.0 | -33.1 | Peak | Vertical |
| * | 6848.0 | 34.1 | 9.1 | 43.2 | 74.0 | -30.8 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (98.2dBμV/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)

| Product | Radio DÅNDIMPEN | Temperature | 25°C |
|---|---|---|---|
| Test Engineer | David Lv | Relative Humidity | 56% |
| Test Site | AC2 | Test Date | 2019/09/25 |
| Test Mode: | 2DH5 | Test Channel: | 78 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 3975.0 | 38.0 | 0.2 | 38.2 | 74.0 | -35.8 | Peak | Horizontal |
| | 4961.0 | 44.9 | 3.5 | 48.4 | 74.0 | -25.6 | Peak | Horizontal |
| * | 6168.0 | 35.0 | 6.7 | 41.7 | 74.0 | -32.3 | Peak | Horizontal |
| * | 6593.0 | 34.9 | 8.1 | 43.0 | 74.0 | -31.0 | Peak | Horizontal |
| | 4119.5 | 37.6 | 0.9 | 38.5 | 74.0 | -35.5 | Peak | Vertical |
| | 4961.0 | 45.8 | 3.5 | 49.3 | 74.0 | -24.7 | Peak | Vertical |
| * | 6185.0 | 34.5 | 6.8 | 41.3 | 74.0 | -32.7 | Peak | Vertical |
| * | 6550.5 | 34.7 | 8.4 | 43.1 | 74.0 | -30.9 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (97.6dBμV/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)

| Product | Radio DÅNDIMPEN | Temperature | 25°C |
|---|---|---|---|
| Test Engineer | David Lv | Relative Humidity | 56% |
| Test Site | AC2 | Test Date | 2019/09/25 |
| Test Mode: | 3DH5 | Test Channel: | 00 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 4051.5 | 37.4 | 0.6 | 38.0 | 74.0 | -36.0 | Peak | Horizontal |
| | 4808.0 | 43.6 | 3.5 | 47.1 | 74.0 | -26.9 | Peak | Horizontal |
| * | 6185.0 | 34.8 | 6.8 | 41.6 | 74.0 | -32.4 | Peak | Horizontal |
| * | 7171.0 | 34.6 | 11.1 | 45.7 | 74.0 | -28.3 | Peak | Horizontal |
| | 4119.5 | 37.3 | 0.9 | 38.2 | 74.0 | -35.8 | Peak | Vertical |
| | 4808.0 | 44.2 | 3.5 | 47.7 | 74.0 | -26.3 | Peak | Vertical |
| * | 6193.5 | 35.4 | 6.7 | 42.1 | 74.0 | -31.9 | Peak | Vertical |
| * | 7069.0 | 33.6 | 10.7 | 44.3 | 74.0 | -29.7 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (98.9dBμV/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)

| Product | Radio DÅNDIMPEN | Temperature | 25°C |
|---|---|---|---|
| Test Engineer | David Lv | Relative Humidity | 56% |
| Test Site | AC2 | Test Date | 2019/09/25 |
| Test Mode: | 3DH5 | Test Channel: | 39 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 4247.0 | 37.0 | 1.4 | 38.4 | 74.0 | -35.6 | Peak | Horizontal |
| | 4884.5 | 42.9 | 3.5 | 46.4 | 74.0 | -27.6 | Peak | Horizontal |
| * | 5904.5 | 35.9 | 6.0 | 41.9 | 74.0 | -32.1 | Peak | Horizontal |
| * | 7162.5 | 34.2 | 11.3 | 45.5 | 74.0 | -28.5 | Peak | Horizontal |
| | 4111.0 | 36.8 | 0.9 | 37.7 | 74.0 | -36.3 | Peak | Vertical |
| | 4884.5 | 44.1 | 3.5 | 47.6 | 74.0 | -26.4 | Peak | Vertical |
| * | 5862.0 | 34.1 | 6.2 | 40.3 | 74.0 | -33.7 | Peak | Vertical |
| * | 6593.0 | 34.9 | 8.1 | 43.0 | 74.0 | -31.0 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (98.3dBμV/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)

| Product | Radio DÅNDIMPEN | Temperature | 25°C |
|---|---|---|---|
| Test Engineer | David Lv | Relative Humidity | 56% |
| Test Site | AC2 | Test Date | 2019/09/25 |
| Test Mode: | 3DH5 | Test Channel: | 78 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | 3992.0 | 37.7 | 0.3 | 38.0 | 74.0 | -36.0 | Peak | Horizontal |
| | 4961.0 | 44.9 | 3.5 | 48.4 | 74.0 | -25.6 | Peak | Horizontal |
| * | 6032.0 | 35.2 | 5.8 | 41.0 | 74.0 | -33.0 | Peak | Horizontal |
| * | 6907.5 | 33.7 | 9.8 | 43.5 | 74.0 | -30.5 | Peak | Horizontal |
| | 4043.0 | 36.9 | 0.6 | 37.5 | 74.0 | -36.5 | Peak | Vertical |
| | 4961.0 | 46.7 | 3.5 | 50.2 | 74.0 | -23.8 | Peak | Vertical |
| * | 5972.5 | 35.6 | 5.7 | 41.3 | 74.0 | -32.7 | Peak | Vertical |
| * | 6754.5 | 33.6 | 8.8 | 42.4 | 74.0 | -31.6 | Peak | Vertical |

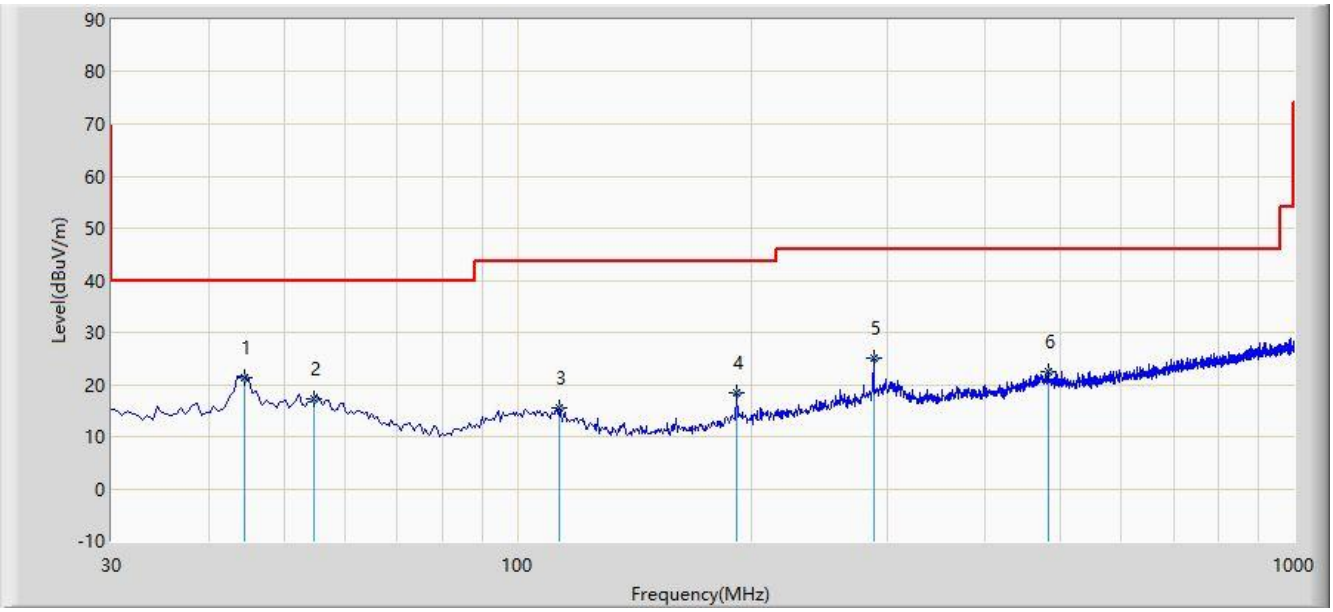
Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (97.7dBμV/m) or 15.209 which is higher.

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 22:51 |
| Limit: FCC_Part15.209_RSE(3m) | Engineer: David Lv |
| Probe: VULB9162_0.03-8GHz | Polarity: Horizontal |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| **Test Mode 1** | |



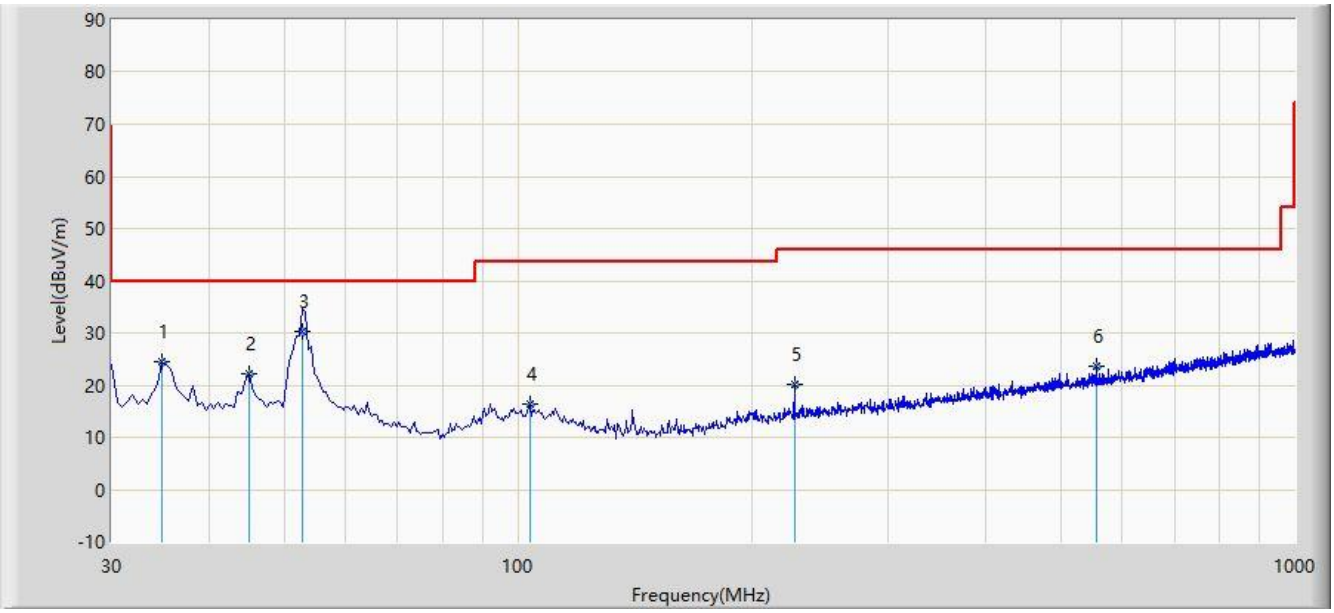

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 44.550 | 21.297 | 6.659 | -18.703 | 40.000 | 14.638 | QP |
| 2 | | | 54.735 | 17.310 | 2.678 | -22.690 | 40.000 | 14.632 | QP |
| 3 | | | 113.420 | 15.624 | 3.420 | -27.876 | 43.500 | 12.204 | QP |
| 4 | | | 191.990 | 18.527 | 6.804 | -24.973 | 43.500 | 11.724 | QP |
| 5 | | | 287.535 | 25.132 | 11.061 | -20.868 | 46.000 | 14.072 | QP |
| 6 | | | 482.505 | 22.417 | 4.700 | -23.583 | 46.000 | 17.717 | QP |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + 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: AC2 | Time: 2019/09/25 - 22:51 |
| Limit: FCC_Part15.209_RSE(3m) | Engineer: David Lv |
| Probe: VULB9162_0.03-8GHz | Polarity: Vertical |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| **Test Mode 1** | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 34.850 | 24.480 | 11.621 | -15.520 | 40.000 | 12.858 | QP |
| 2 | | | 45.035 | 22.171 | 7.438 | -17.829 | 40.000 | 14.733 | QP |
| 3 | | * | 52.795 | 30.369 | 15.580 | -9.631 | 40.000 | 14.790 | QP |
| 4 | | | 103.720 | 16.472 | 3.459 | -27.028 | 43.500 | 13.013 | QP |
| 5 | | | 226.910 | 20.260 | 7.530 | -25.740 | 46.000 | 12.730 | QP |
| 6 | | | 554.770 | 23.592 | 4.724 | -22.408 | 46.000 | 18.868 | QP |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + 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.

## 7.10. Radiated Restricted Band Edge Measurement

**For 15.205 requirement:**

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

| Frequency (MHz) | Frequency (MHz) | Frequency (MHz) | Frequency (GHz) |
|---|---|---|---|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| [1] 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | ([2]) |
| 13.36 - 13.41 | -- | -- | -- |

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

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

**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 (MHz) | Frequency (MHz) | Frequency (GHz) |
|---|---|---|
| 0.090 - 0.110 | 149.9 -150.5 | 9.0 - 9.2 |
| 0.495 -0.505 | 156.52475 - 156.525225 | 9.3 - 9.5 |
| 2.1735 - 2.1905 | 156.7 - 156.9 | 10.6 - 12.7 |
| 3.020 - 3.026 | 162.0125 - 167.17 | 13.25 - 13.4 |
| 4.125 - 4.128 | 167.72 - 173.2 | 14.47 - 14.5 |
| 4.17725 - 4.17775 | 240 - 285 | 15.35 - 16.2 |
| 4.20725 - 4.20775 | 322 - 335.4 | 17.7 - 21.4 |
| 5.677 - 5.683 | 399.9 - 410 | 22.01 - 23.12 |
| 6.215 - 6.218 | 608 - 614 | 23.6 - 24.0 |
| 6.26775 - 6.26825 | 960 - 1427 | 31.2 - 31.8 |
| 6.31175 - 6.31225 | 1435 - 1626.5 | 36.43 - 36.5 |
| 8.291 - 8.294 | 1645.5 - 1646.5 | Above 38.6 |
| 8.362 - 8.366 | 1660 - 1710 | -- |
| 8.37625 - 8.38675 | 1718.8 -1722.2 | |
| 8.41425 - 8.41475 | 2200 - 2300 | |
| 12.29 - 12.293 | 2310 -2390 | |
| 12.51975 - 12.52025 | 2483.5 - 2500 | |
| 12.57675 - 12.57725 | 2655 - 2900 | |
| 13.36 -13.41 | 3260 - 3267 | |
| 16.42 - 16.423 | 3332 -3339 | |
| 16.69475 - 16.69525 | 334.5 - 3358 | |
| 16.80425 - 16.80475 | 3500 - 4400 | |
| 25.5 - 25.67 | 4500 - 5150 | |
| 37.5 - 38.25 | 5350 - 5460 | |
| 73 - 74.6 | 7250 - 7750 | |
| 74.8 - 75.2 | 8025 - 8500 | |
| 108 - 138 | -- | |

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen must not exceed the limits shown in Table per Section 8.9.

| RSS-Gen Section 8.9 | | | |
|---|---|---|---|
| Frequency [MHz] | Magnetic field strength (H-Field) [uA/m] | Field Strength [uV/m] | Measured Distance [Meters] |
| 0.009 - 0.490 | 6.37/F(F in kHz) | N/A | 300 |
| 0.490 - 1.705 | 63.7/F(F in kHz) | N/A | 30 |
| 1.705 - 30 | 0.08 | N/A | 30 |
| 30 - 88 | N/A | 100 | 3 |
| 88 - 216 | N/A | 150 | 3 |
| 216 - 960 | N/A | 200 | 3 |
| Above 960 | N/A | 500 | 3 |

### 7.10.1.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

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

### 7.10.2.Test Setting

**Peak Field Strength Measurements**

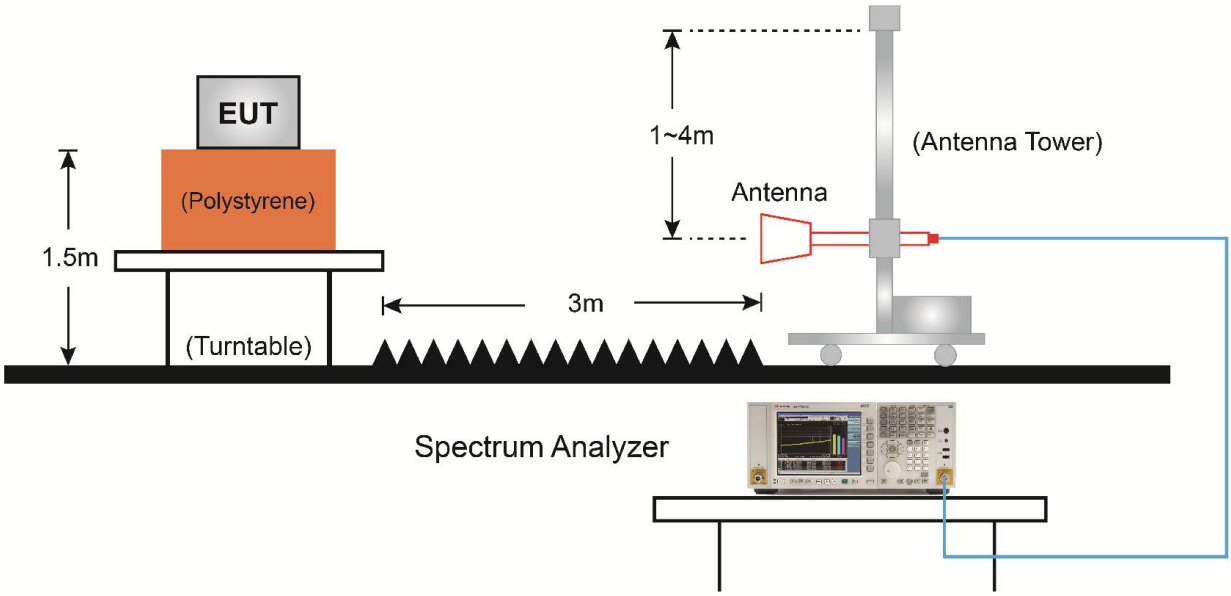
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Average 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 ≥ 98%, set VBW = 10 Hz.

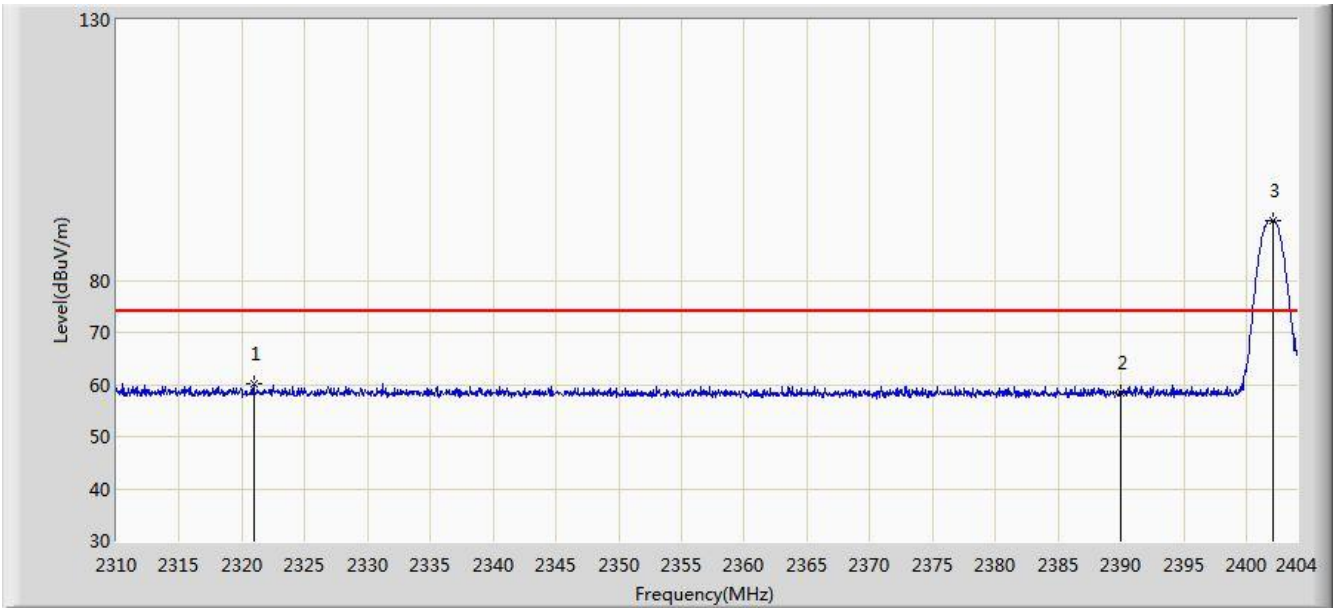
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

### 7.10.3.Test Setup



### 7.10.4.Test Result

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 18:44 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by DH5 at channel 2402MHz | |

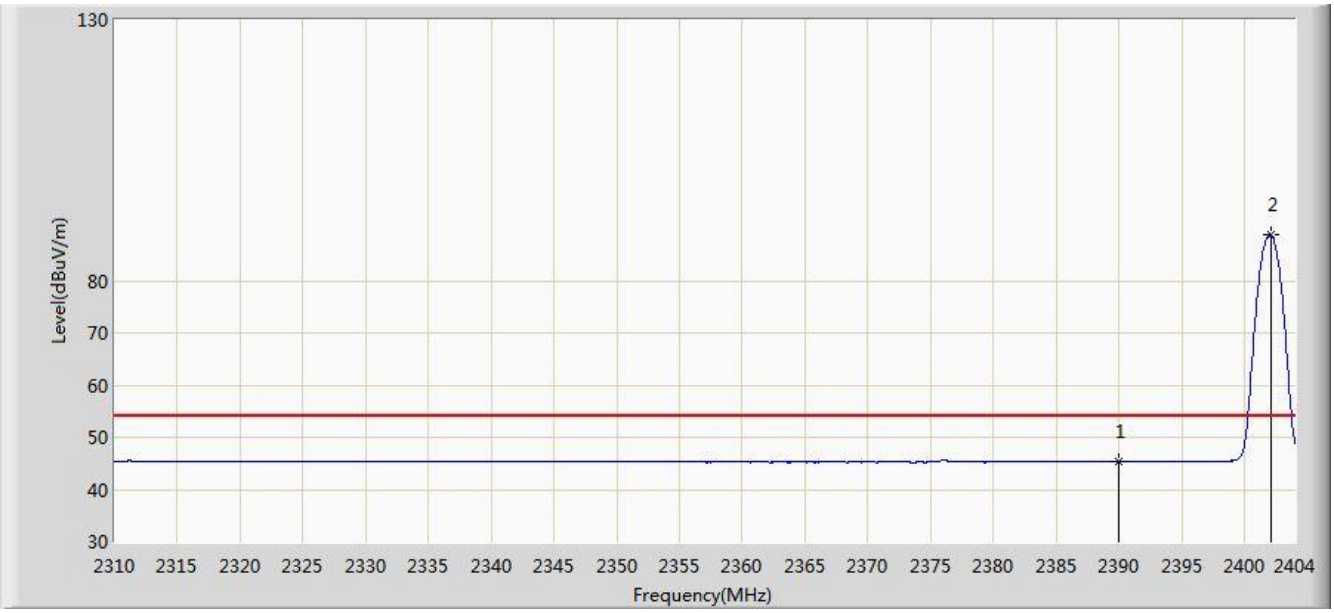



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2320.904 | 60.121 | 28.484 | -13.879 | 74.000 | 31.637 | PK |
| 2 | | | 2390.000 | 58.546 | 27.097 | -15.454 | 74.000 | 31.449 | PK |
| 3 | | * | 2402.073 | 91.469 | 60.048 | N/A | N/A | 31.421 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 18:48 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by DH5 at channel 2402MHz | |

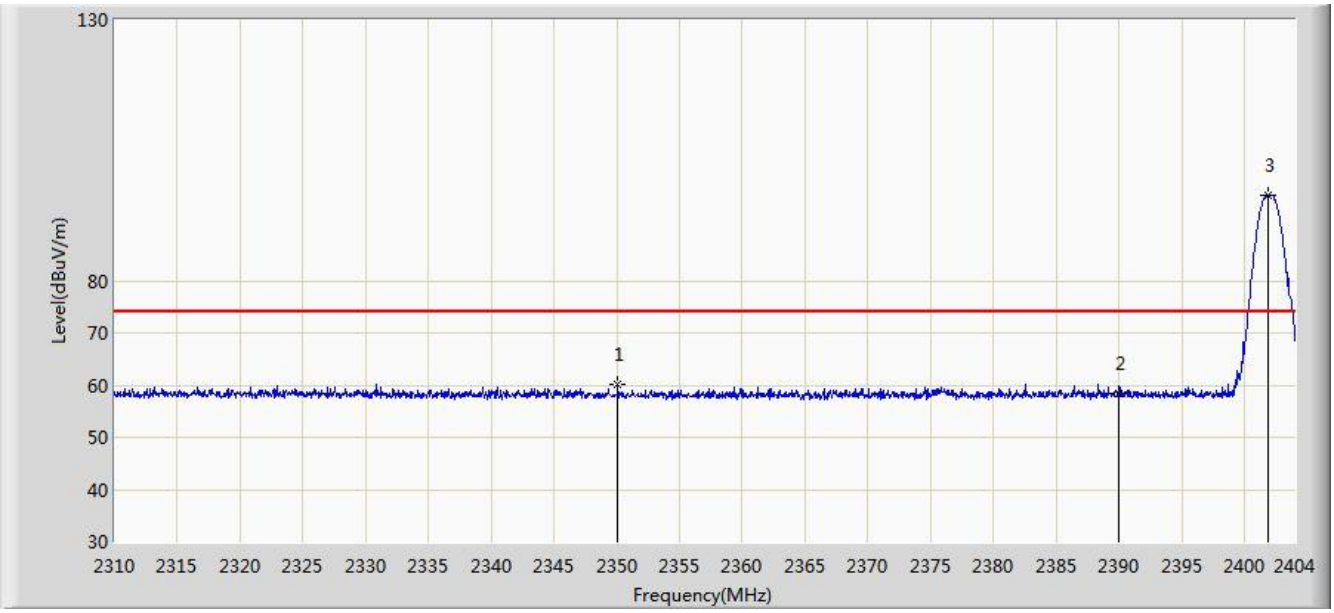



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 45.327 | 13.878 | -8.673 | 54.000 | 31.449 | AV |
| 2 | | * | 2402.073 | 88.788 | 57.367 | N/A | N/A | 31.421 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 18:48 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by DH5 at channel 2402MHz | |

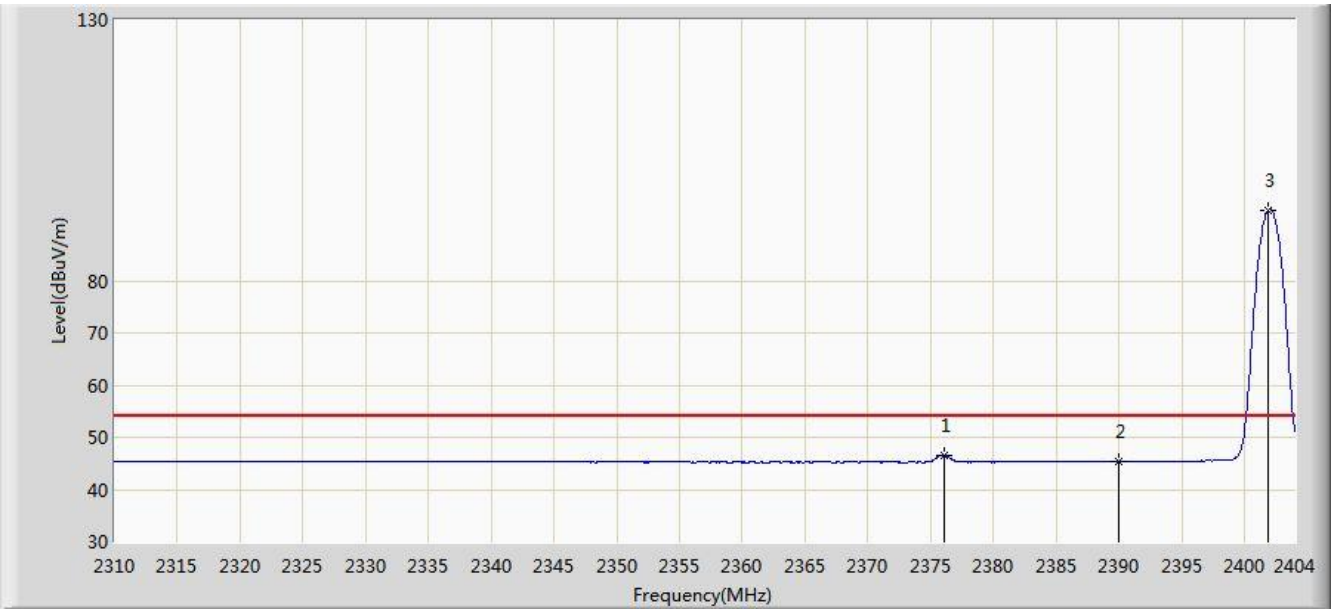



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2350.091 | 60.226 | 28.719 | -13.774 | 74.000 | 31.507 | PK |
| 2 | | | 2390.000 | 58.269 | 26.820 | -15.731 | 74.000 | 31.449 | PK |
| 3 | | * | 2401.885 | 96.379 | 64.957 | N/A | N/A | 31.422 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 18:50 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by DH5 at channel 2402MHz | |

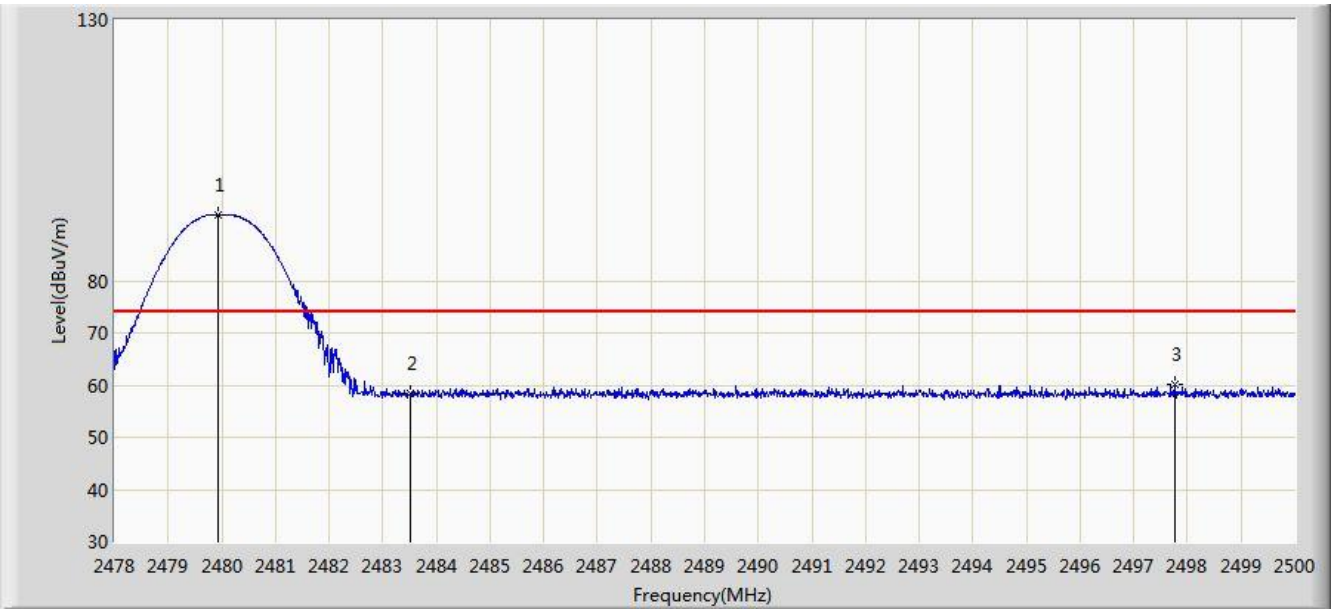



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2376.035 | 46.619 | 15.171 | -7.381 | 54.000 | 31.448 | AV |
| 2 | | | 2390.000 | 45.325 | 13.876 | -8.675 | 54.000 | 31.449 | AV |
| 3 | | * | 2401.885 | 93.522 | 62.100 | N/A | N/A | 31.422 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 18:50 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by DH5 at channel 2480MHz | |

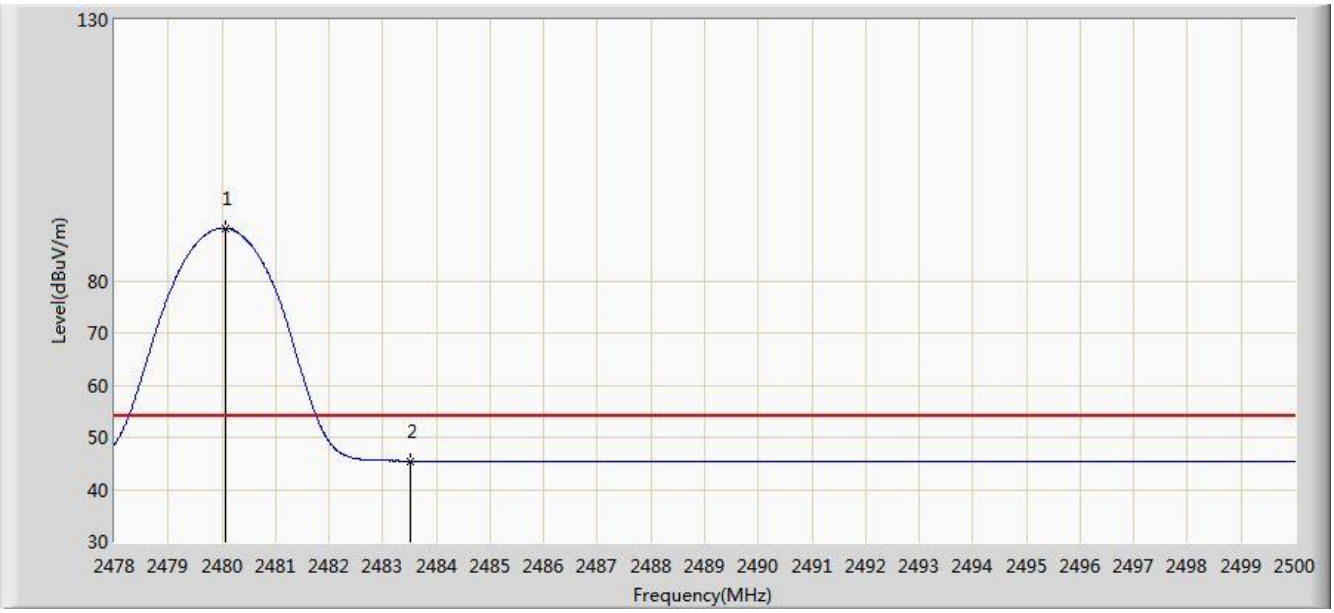



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2479.936 | 92.583 | 61.192 | N/A | N/A | 31.390 | PK |
| 2 | | | 2483.500 | 58.368 | 26.965 | -15.632 | 74.000 | 31.403 | PK |
| 3 | | | 2497.756 | 60.036 | 28.588 | -13.964 | 74.000 | 31.448 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 18:53 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by DH5 at channel 2480MHz | |

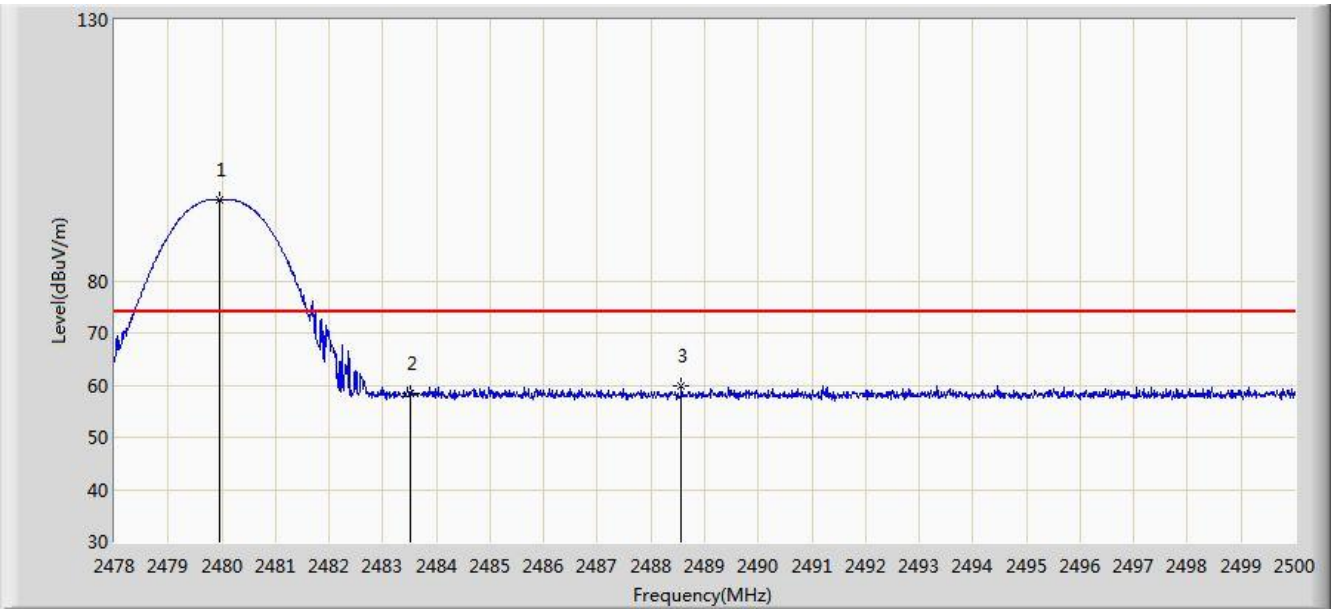



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2480.079 | 90.033 | 58.642 | N/A | N/A | 31.391 | AV |
| 2 | | | 2483.500 | 45.490 | 14.087 | -8.510 | 54.000 | 31.403 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 18:53 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by DH5 at channel 2480MHz | |

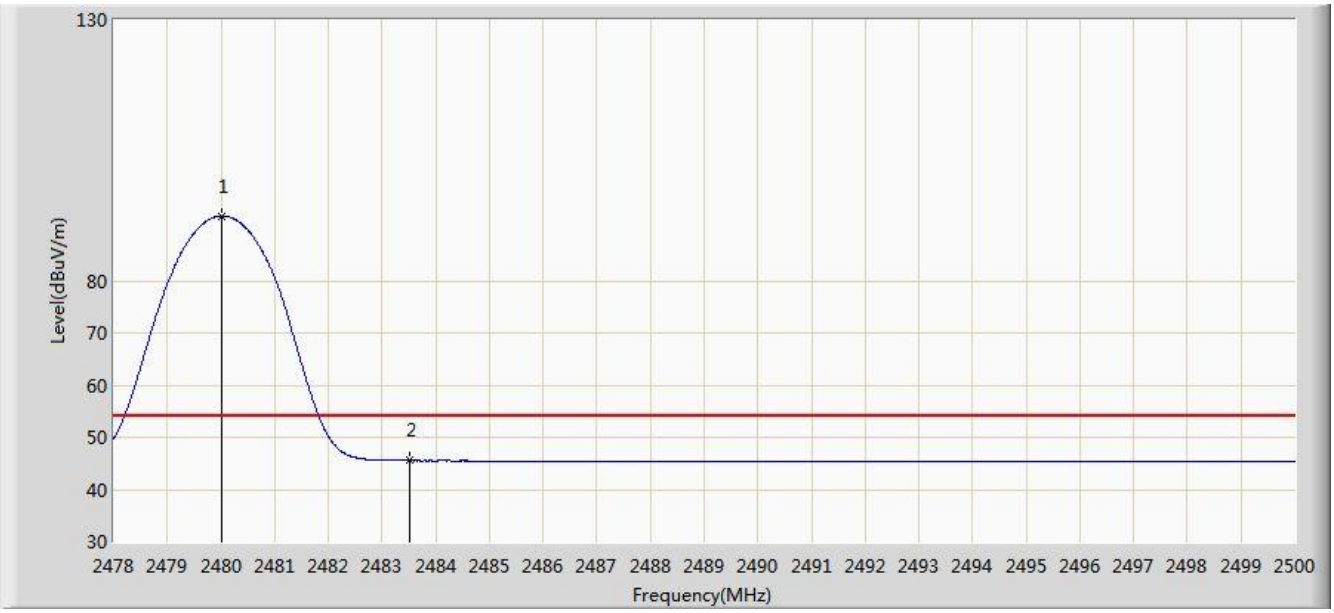



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2479.969 | 95.511 | 64.120 | N/A | N/A | 31.391 | PK |
| 2 | | | 2483.500 | 58.310 | 26.907 | -15.690 | 74.000 | 31.403 | PK |
| 3 | | | 2488.560 | 59.743 | 28.323 | -14.257 | 74.000 | 31.420 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 18:55 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by DH5 at channel 2480MHz | |

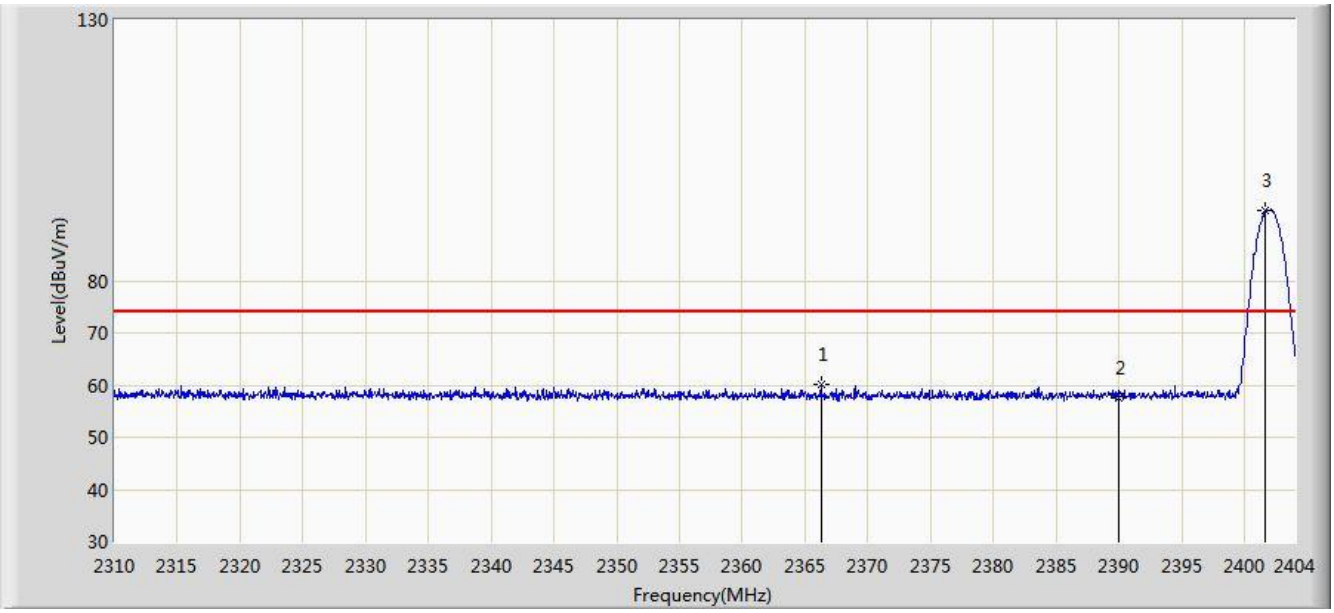



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2480.002 | 92.408 | 61.017 | N/A | N/A | 31.391 | AV |
| 2 | | | 2483.500 | 45.538 | 14.135 | -8.462 | 54.000 | 31.403 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 18:55 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 2DH5 at channel 2402MHz | |

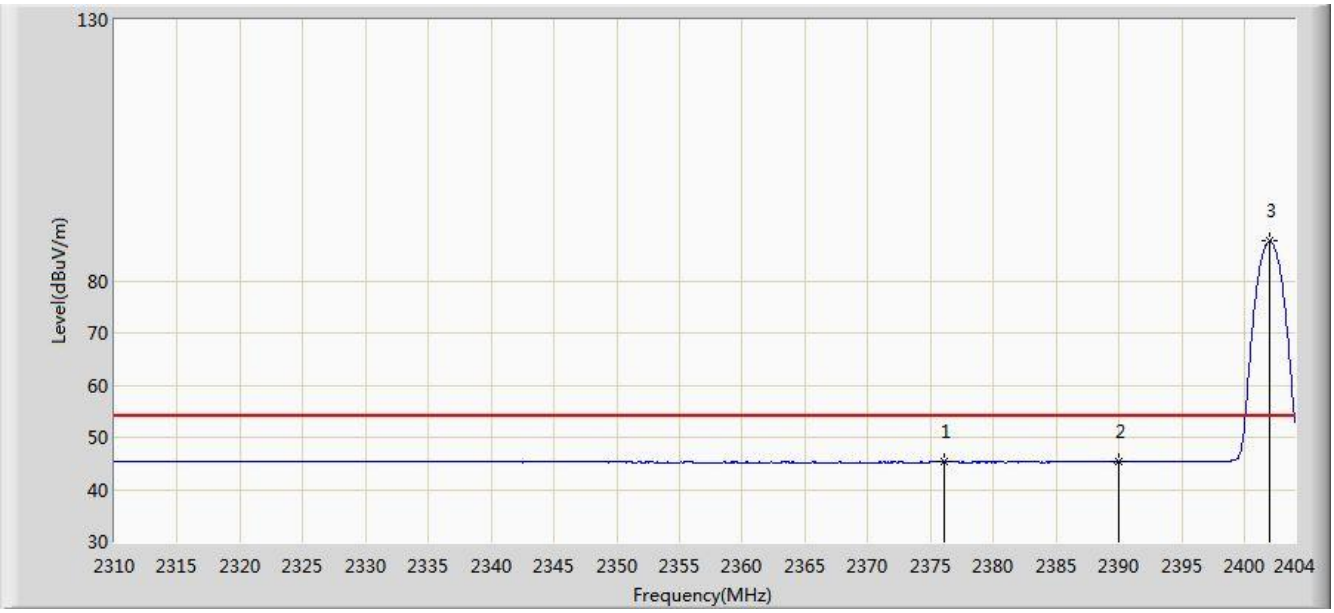



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2366.259 | 60.025 | 28.561 | -13.975 | 74.000 | 31.463 | PK |
| 2 | | | 2390.000 | 57.528 | 26.079 | -16.472 | 74.000 | 31.449 | PK |
| 3 | | * | 2401.697 | 93.552 | 62.129 | N/A | N/A | 31.422 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 18:57 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 2DH5 at channel 2402MHz | |

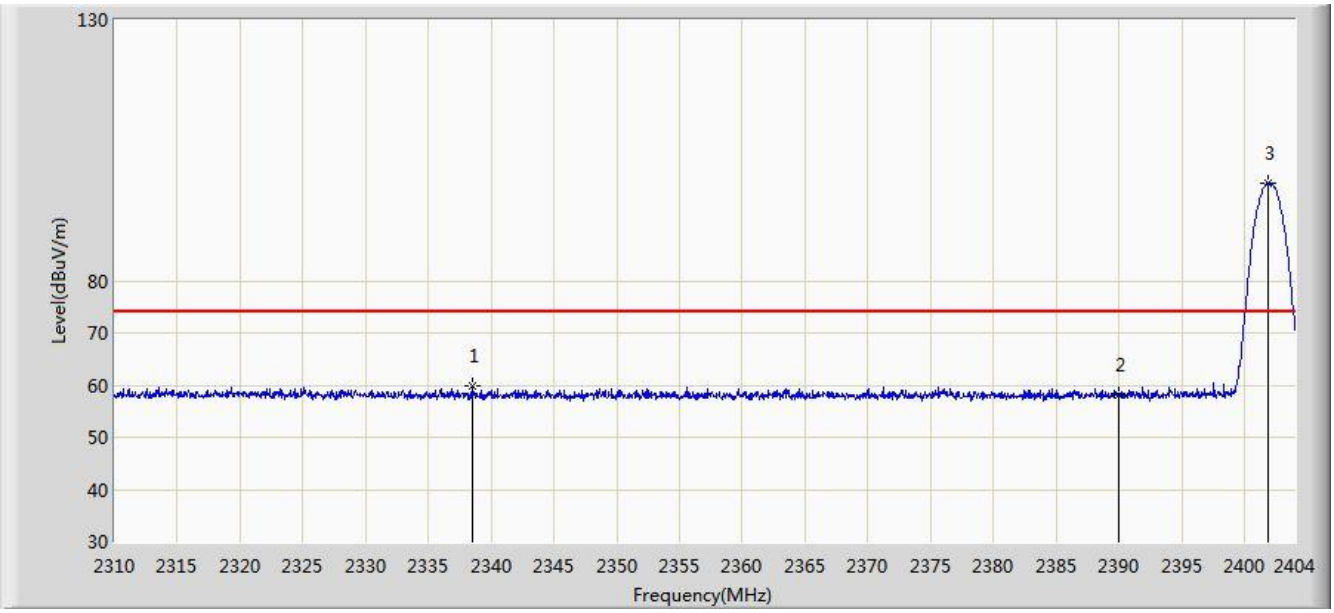



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2376.035 | 45.462 | 14.014 | -8.538 | 54.000 | 31.448 | AV |
| 2 | | | 2390.000 | 45.264 | 13.815 | -8.736 | 54.000 | 31.449 | AV |
| 3 | | * | 2402.026 | 87.567 | 56.145 | N/A | N/A | 31.422 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 18:58 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 2DH5 at channel 2402MHz | |

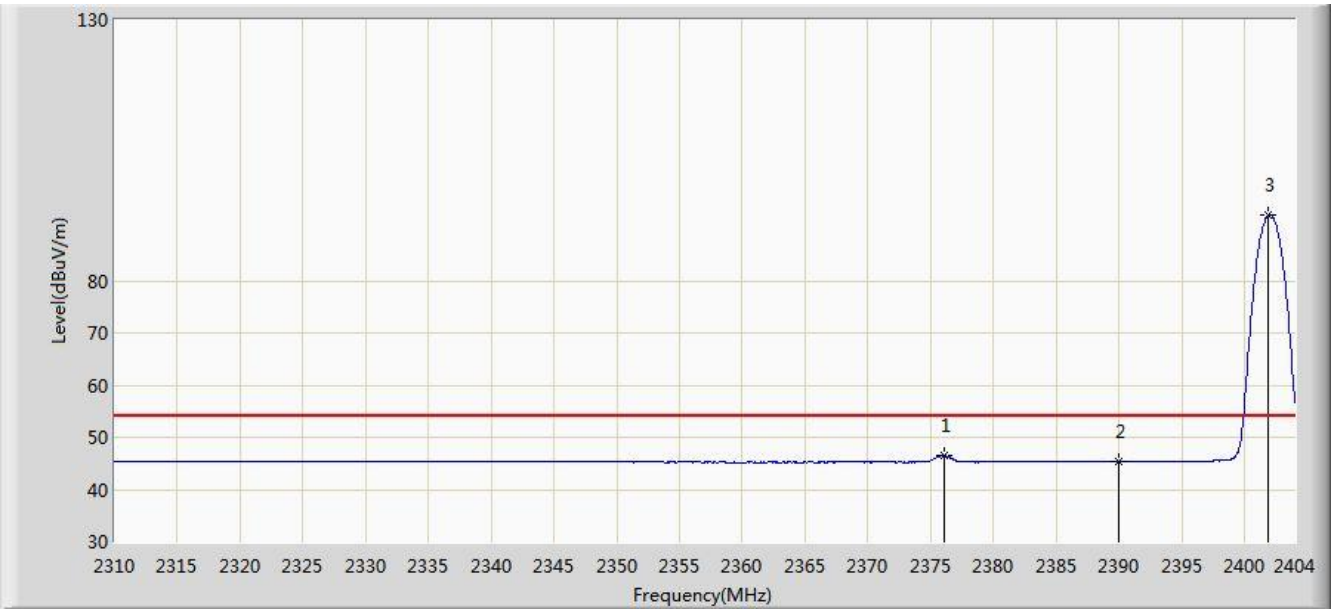



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2338.482 | 59.722 | 28.166 | -14.278 | 74.000 | 31.556 | PK |
| 2 | | | 2390.000 | 58.173 | 26.724 | -15.827 | 74.000 | 31.449 | PK |
| 3 | | * | 2401.885 | 98.792 | 67.370 | N/A | N/A | 31.422 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 18:59 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 2DH5 at channel 2402MHz | |

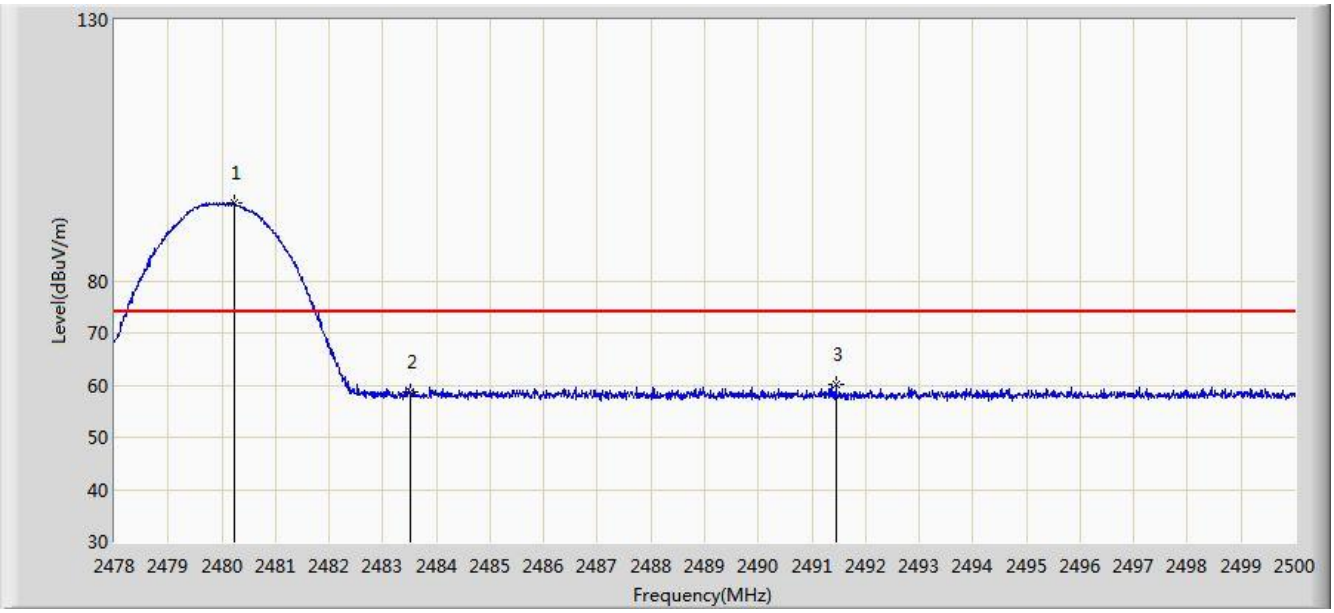



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2376.035 | 46.455 | 15.007 | -7.545 | 54.000 | 31.448 | AV |
| 2 | | | 2390.000 | 45.335 | 13.886 | -8.665 | 54.000 | 31.449 | AV |
| 3 | | * | 2401.932 | 92.644 | 61.222 | N/A | N/A | 31.422 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 18:59 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 2DH5 at channel 2480MHz | |

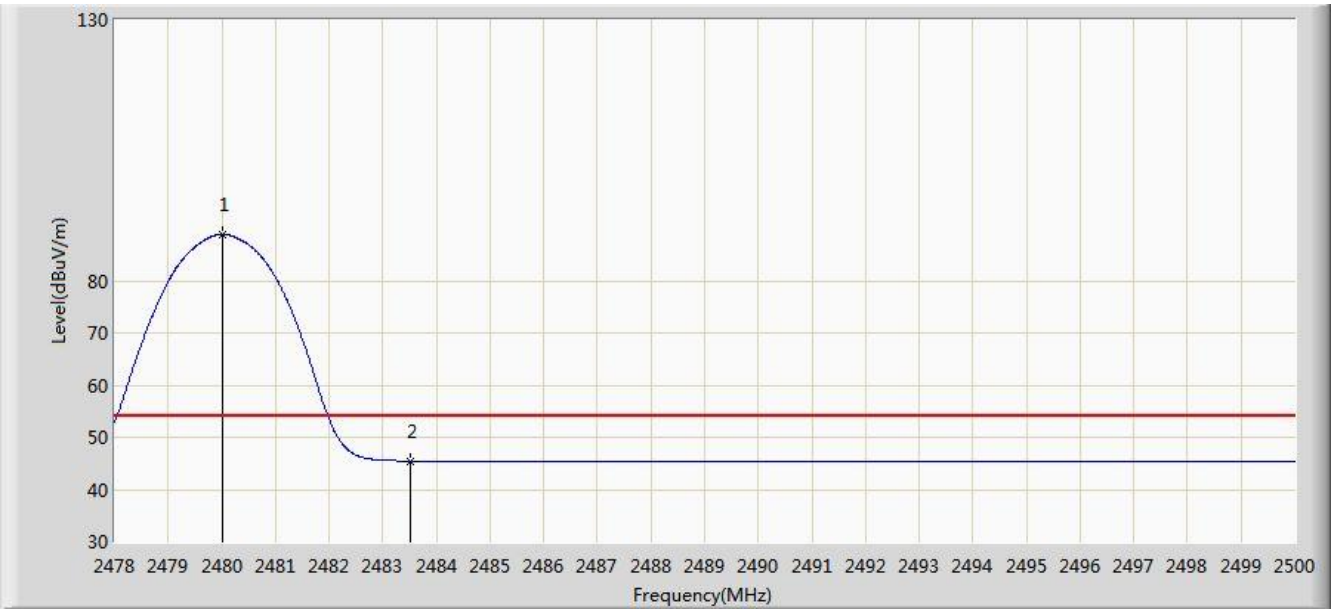



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2480.233 | 94.815 | 63.423 | N/A | N/A | 31.392 | PK |
| 2 | | | 2483.500 | 58.601 | 27.198 | -15.399 | 74.000 | 31.403 | PK |
| 3 | | | 2491.442 | 60.028 | 28.598 | -13.972 | 74.000 | 31.430 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 19:02 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 2DH5 at channel 2480MHz | |

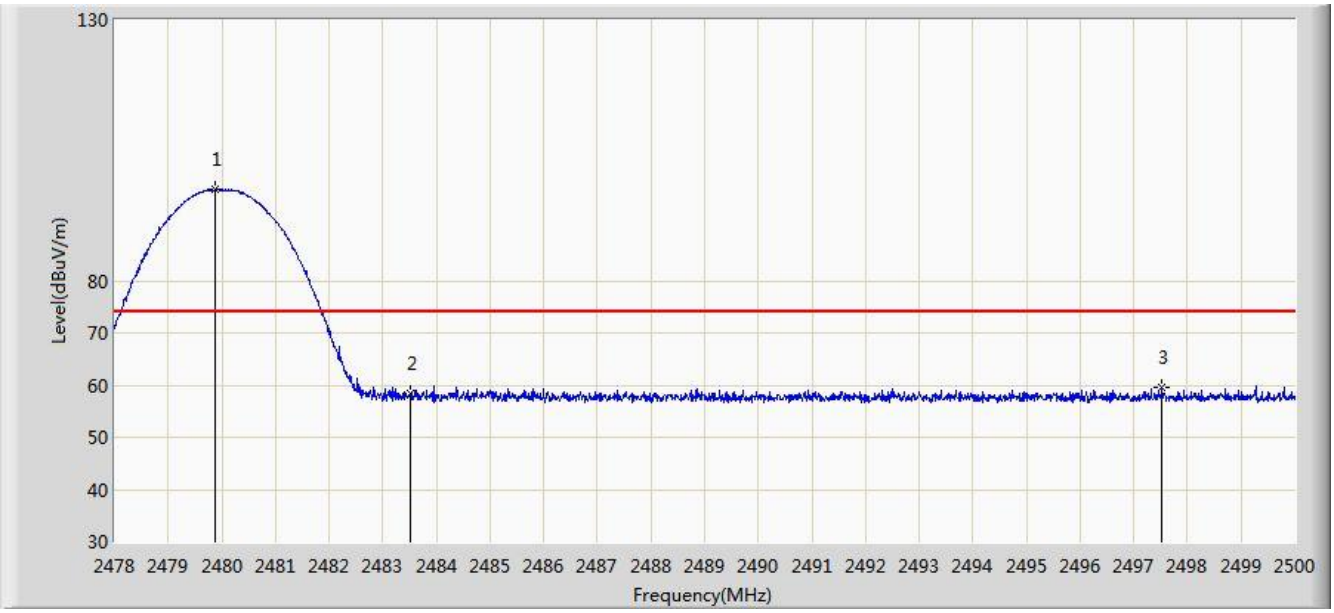



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2480.013 | 88.852 | 57.461 | N/A | N/A | 31.391 | AV |
| 2 | | | 2483.500 | 45.463 | 14.060 | -8.537 | 54.000 | 31.403 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 19:02 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 2DH5 at channel 2480MHz | |

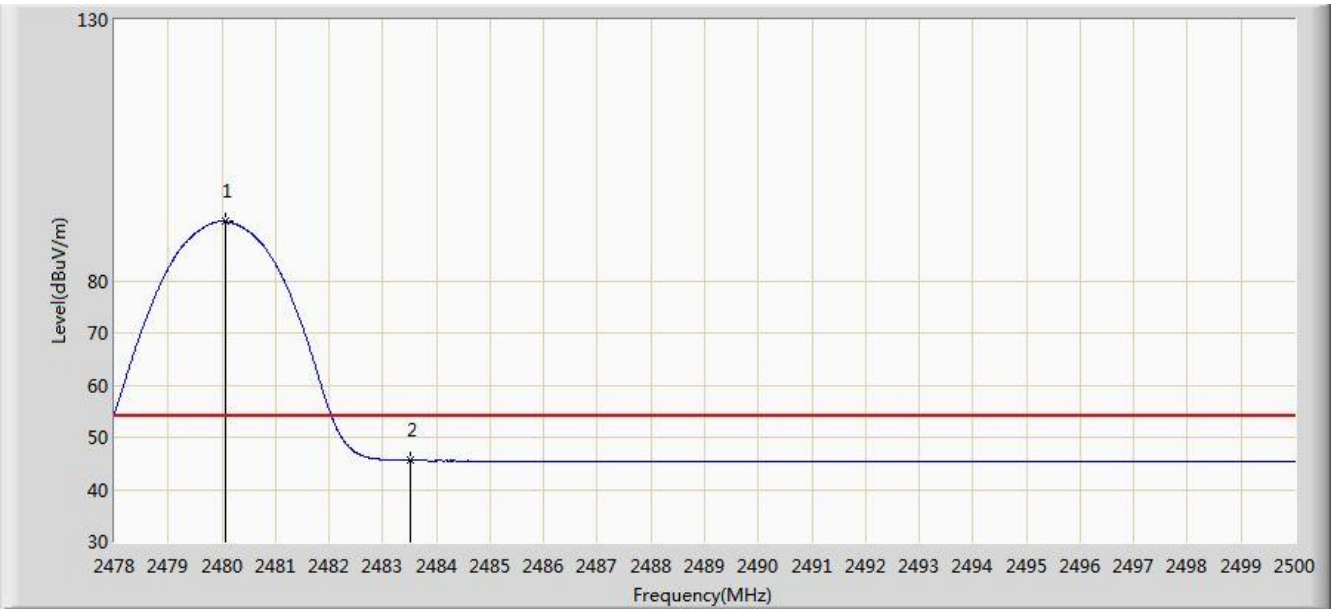



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2479.881 | 97.562 | 66.172 | N/A | N/A | 31.390 | PK |
| 2 | | | 2483.500 | 58.347 | 26.944 | -15.653 | 74.000 | 31.403 | PK |
| 3 | | | 2497.525 | 59.492 | 28.044 | -14.508 | 74.000 | 31.448 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 19:03 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 2DH5 at channel 2480MHz | |

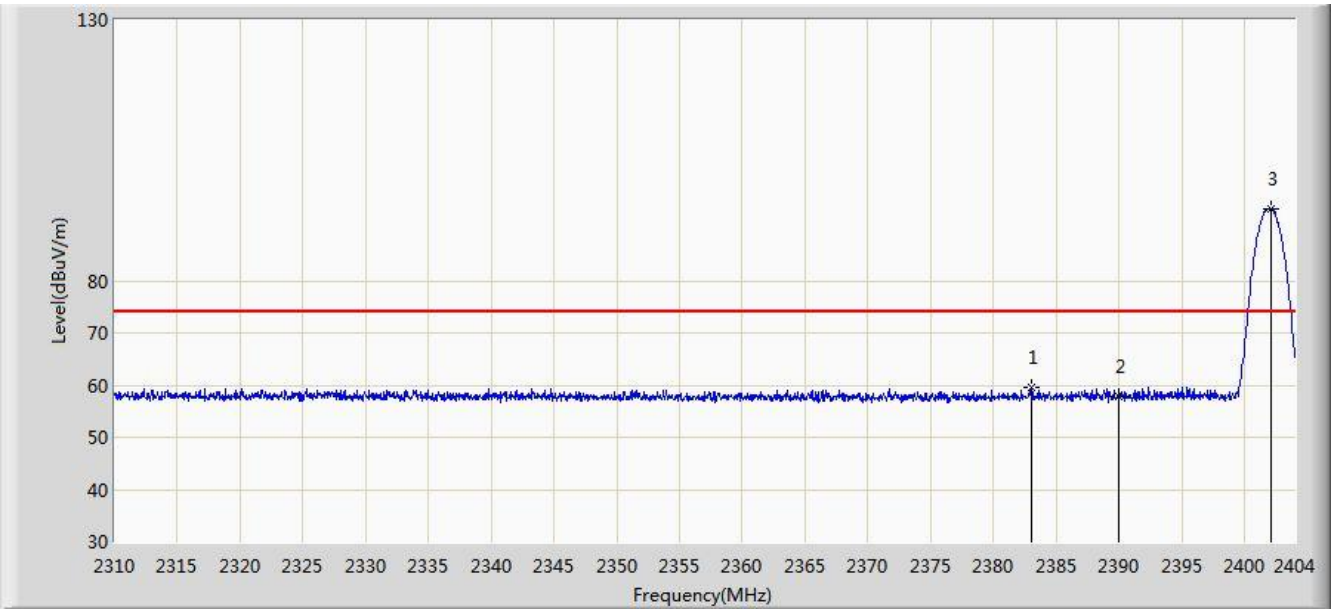



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2480.079 | 91.338 | 59.947 | N/A | N/A | 31.391 | AV |
| 2 | | | 2483.500 | 45.565 | 14.162 | -8.435 | 54.000 | 31.403 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 19:04 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 3DH5 at channel 2402MHz | |

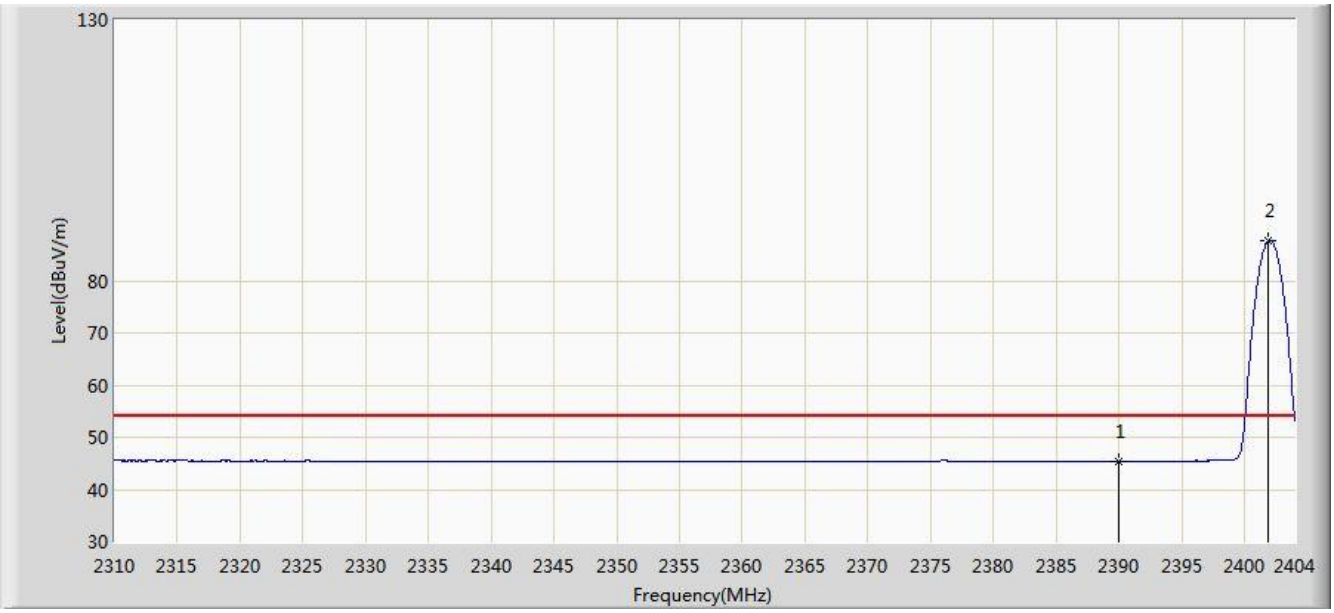



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2383.038 | 59.695 | 28.247 | -14.305 | 74.000 | 31.448 | PK |
| 2 | | | 2390.000 | 57.742 | 26.293 | -16.258 | 74.000 | 31.449 | PK |
| 3 | | * | 2402.073 | 93.901 | 62.480 | N/A | N/A | 31.421 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 19:05 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 3DH5 at channel 2402MHz | |

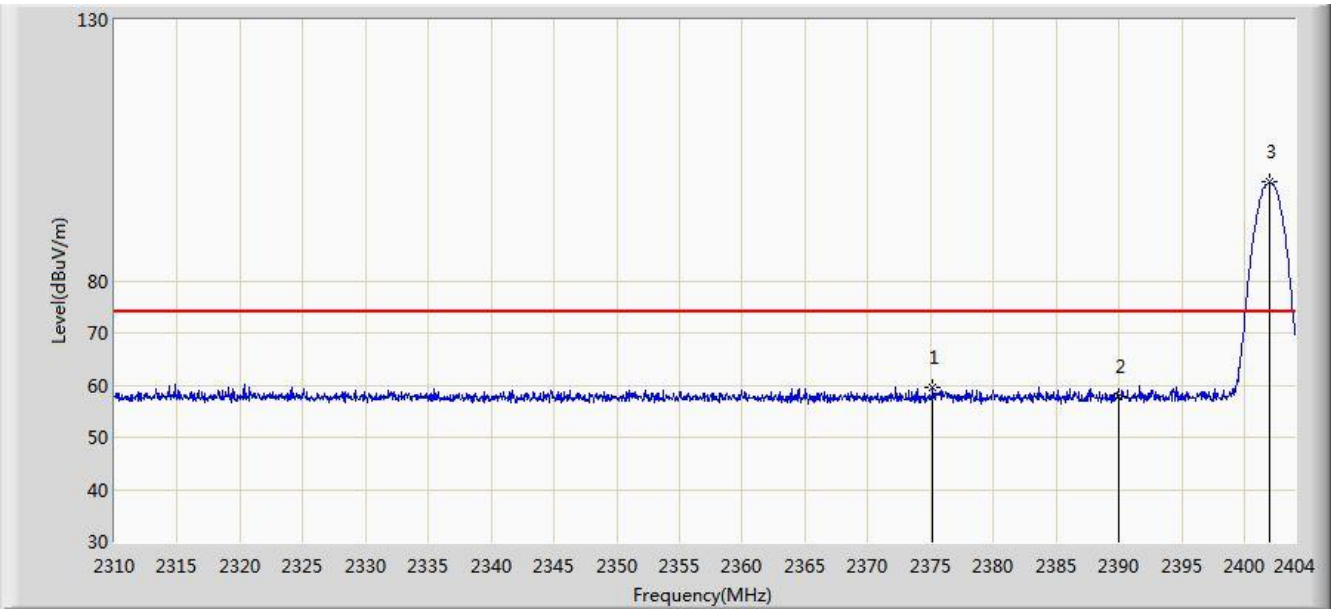



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 45.387 | 13.938 | -8.613 | 54.000 | 31.449 | AV |
| 2 | | * | 2401.932 | 87.630 | 56.208 | N/A | N/A | 31.422 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 19:06 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 3DH5 at channel 2402MHz | |

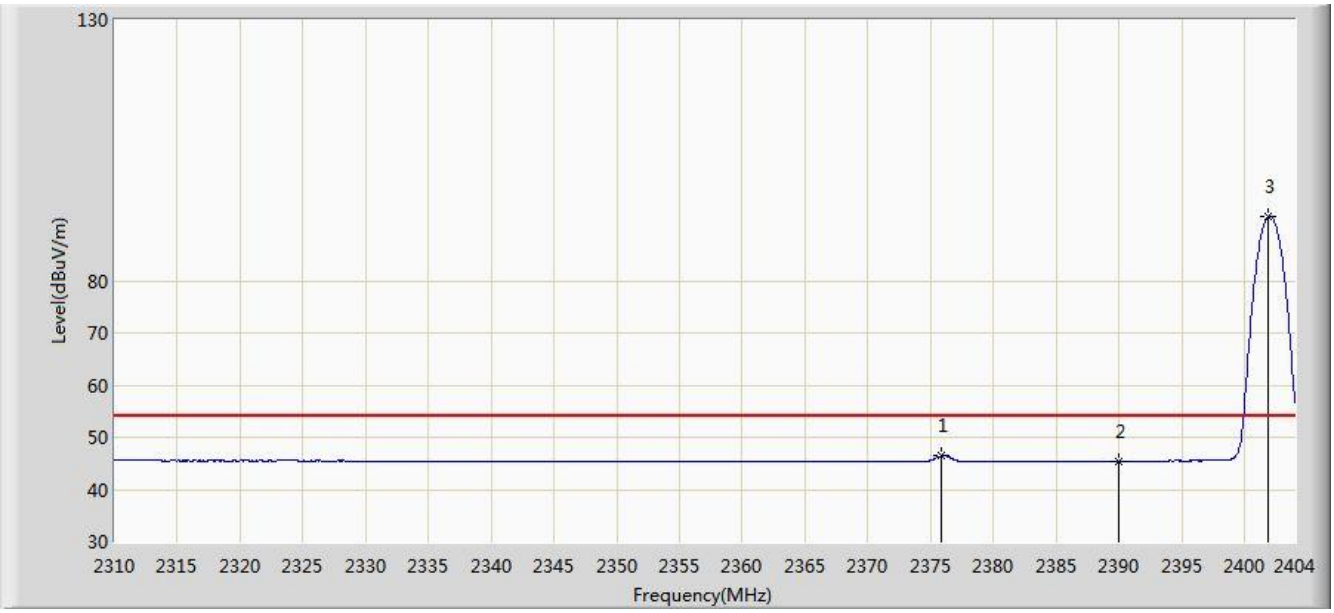



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2375.189 | 59.448 | 27.999 | -14.552 | 74.000 | 31.449 | PK |
| 2 | | | 2390.000 | 57.944 | 26.495 | -16.056 | 74.000 | 31.449 | PK |
| 3 | | * | 2402.026 | 98.901 | 67.479 | N/A | N/A | 31.422 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 19:06 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 3DH5 at channel 2402MHz | |

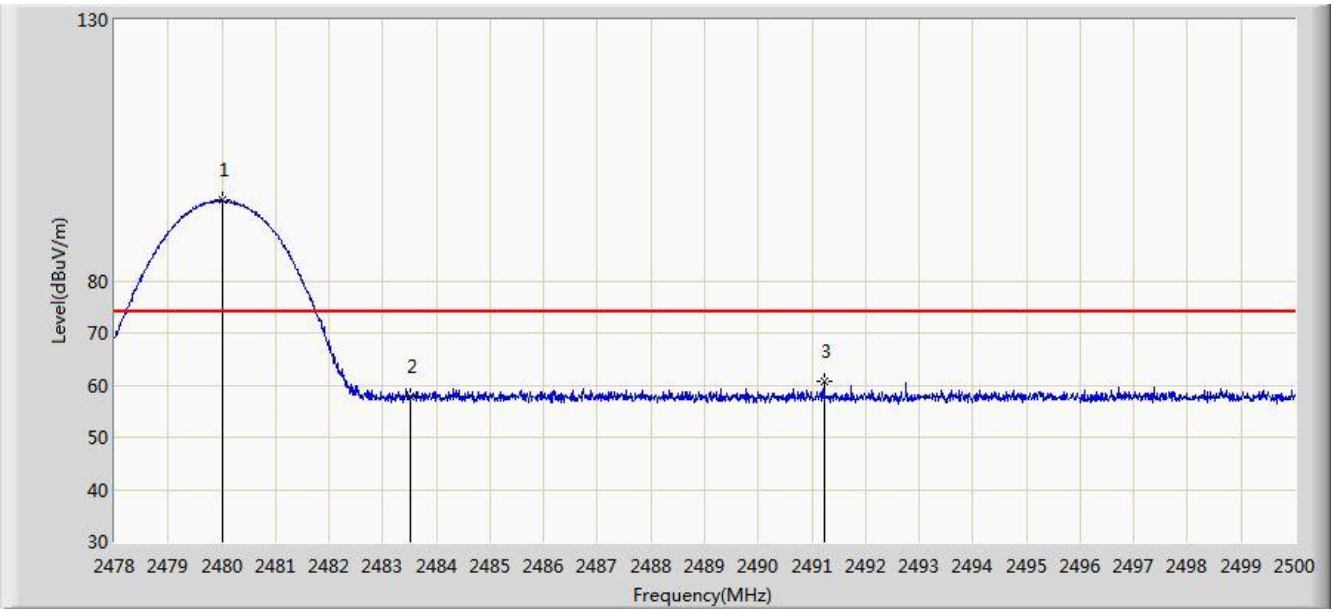



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2375.894 | 46.439 | 14.991 | -7.561 | 54.000 | 31.448 | AV |
| 2 | | | 2390.000 | 45.421 | 13.972 | -8.579 | 54.000 | 31.449 | AV |
| 3 | | * | 2401.885 | 92.276 | 60.854 | N/A | N/A | 31.422 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 19:07 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 3DH5 at channel 2480MHz | |

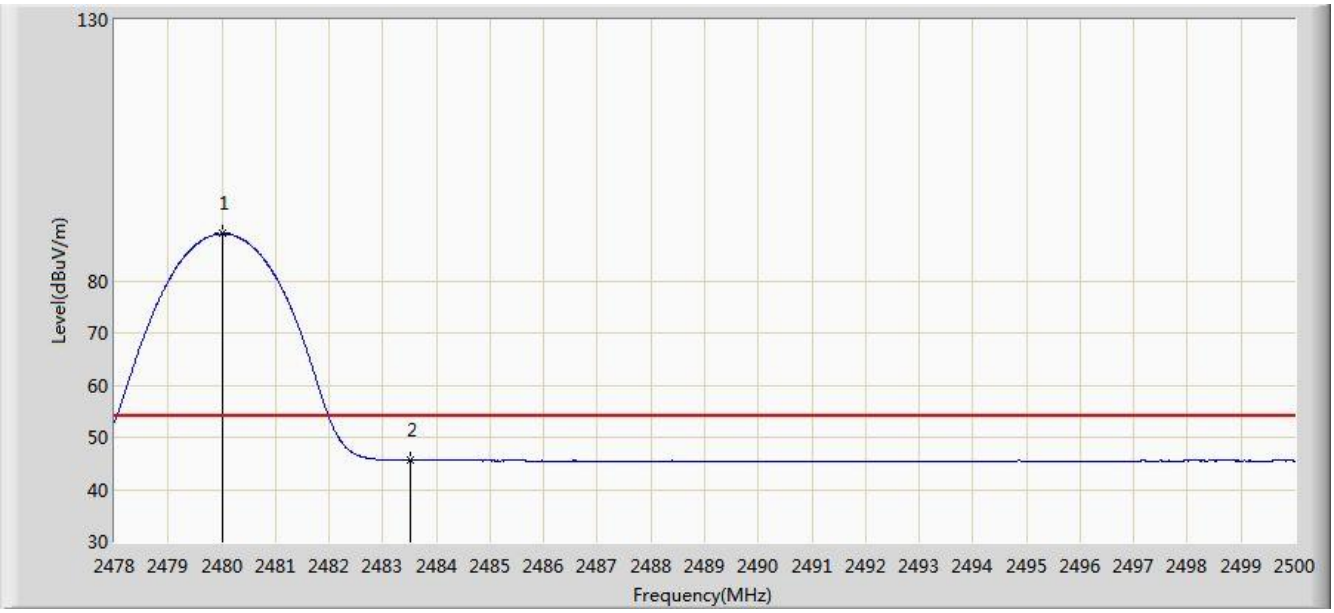



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2480.002 | 95.518 | 64.127 | N/A | N/A | 31.391 | PK |
| 2 | | | 2483.500 | 57.960 | 26.557 | -16.040 | 74.000 | 31.403 | PK |
| 3 | | | 2491.222 | 60.635 | 29.206 | -13.365 | 74.000 | 31.429 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 19:08 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 3DH5 at channel 2480MHz | |

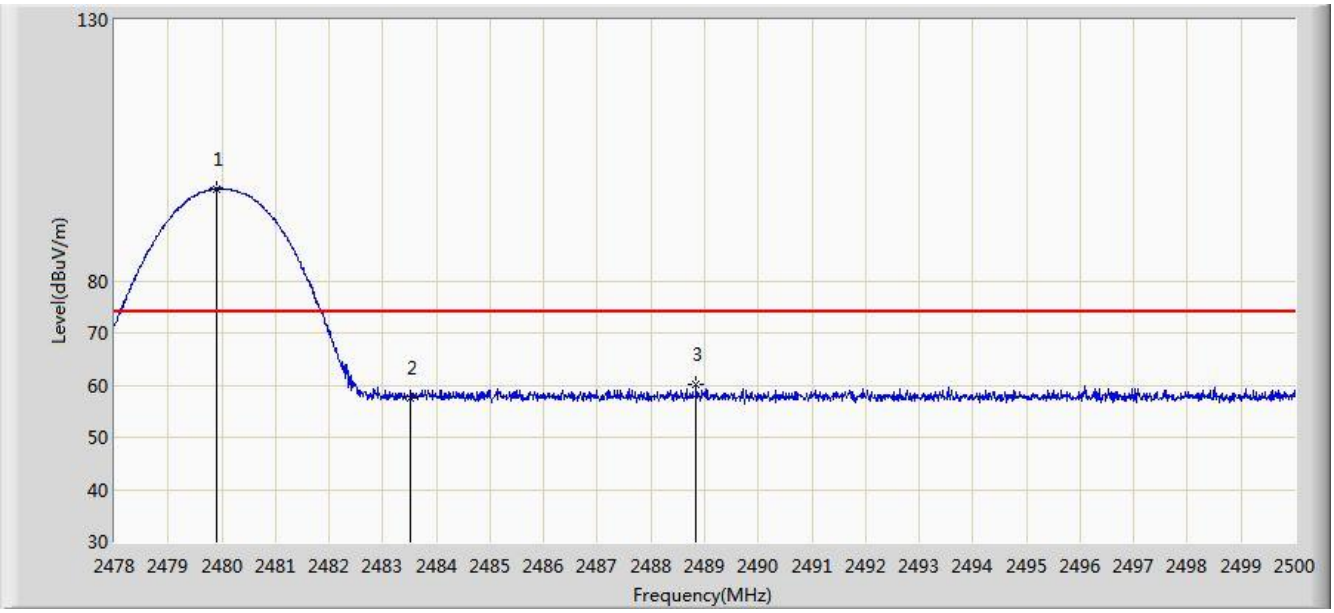



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2480.002 | 88.987 | 57.596 | N/A | N/A | 31.391 | AV |
| 2 | | | 2483.500 | 45.550 | 14.147 | -8.450 | 54.000 | 31.403 | AV |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 19:09 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 3DH5 at channel 2480MHz | |

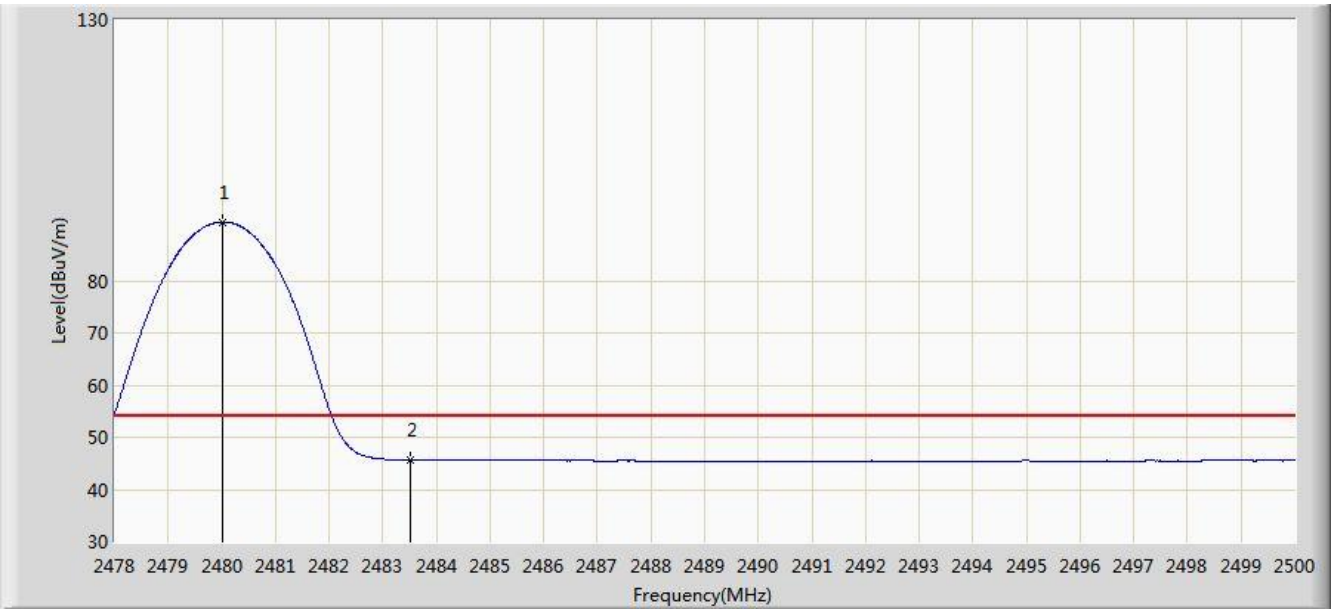



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2479.903 | 97.667 | 66.276 | N/A | N/A | 31.390 | PK |
| 2 | | | 2483.500 | 57.480 | 26.077 | -16.520 | 74.000 | 31.403 | PK |
| 3 | | | 2488.846 | 60.133 | 28.712 | -13.867 | 74.000 | 31.421 | PK |

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

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

| | |
|---|---|
| Site: AC2 | Time: 2019/09/25 - 19:09 |
| Limit: FCC_Part15_RE(3m) | Engineer: David Lv |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: Radio DÅNDIMPEN | Power: By Battery |
| Test Mode: Transmit by 3DH5 at channel 2480MHz | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2480.002 | 91.269 | 59.878 | N/A | N/A | 31.391 | AV |
| 2 | | | 2483.500 | 45.653 | 14.250 | -8.347 | 54.000 | 31.403 | AV |

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

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

## 7.11. AC Conducted Emissions Measurement

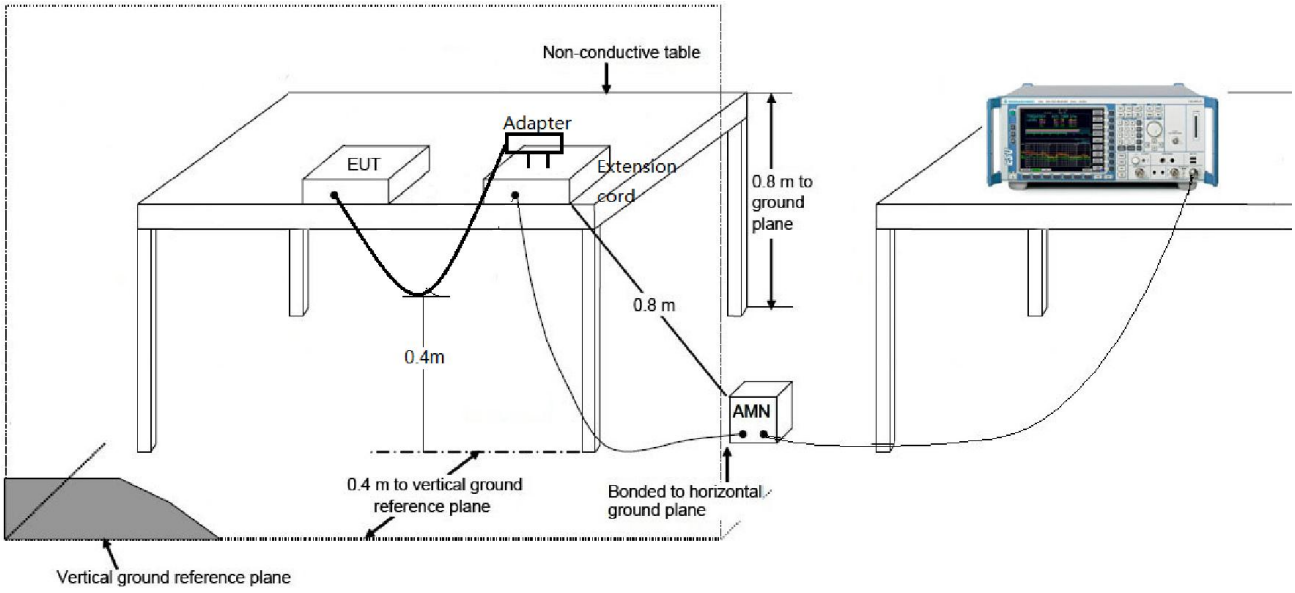
### 7.11.1. Test Limit

| FCC Part 15 Subpart C Paragraph 15.207 Limits | | |
|---|---|---|
| Frequency (MHz) | QP (dBμV) | Average (dBμV) |
| 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.

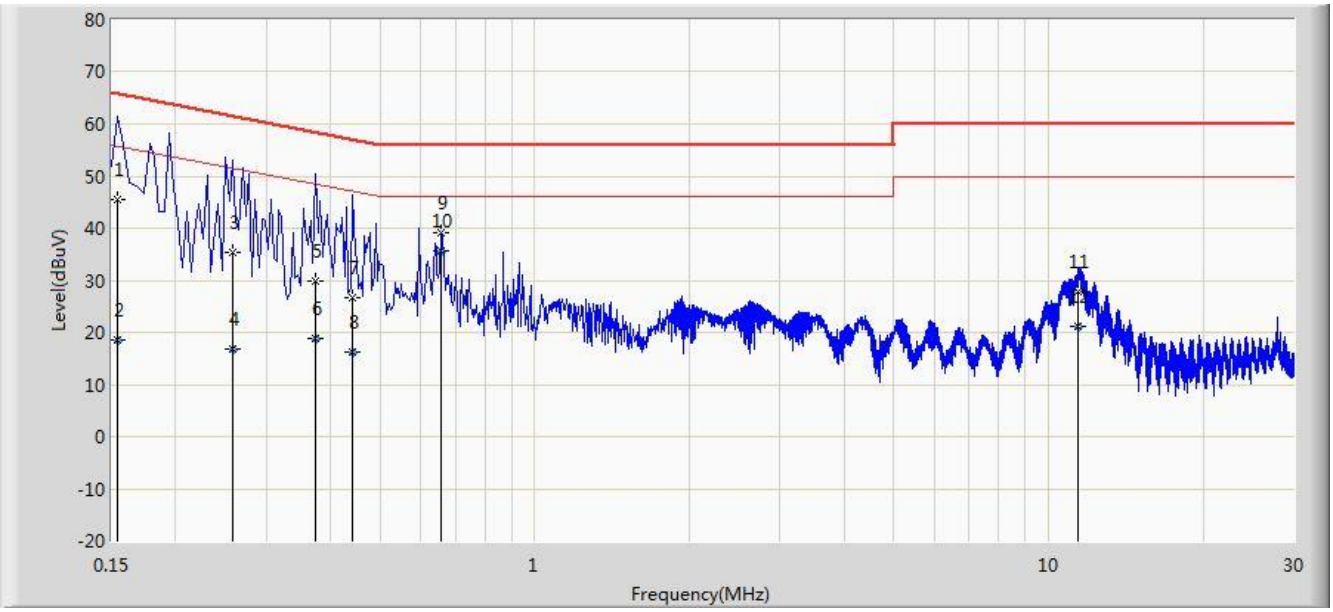
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 7.11.2. Test Setup



### 7.11.3.Test Result

| | |
|---|---|
| Site: SR2 | Time: 2019/09/25 - 13:28 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Liz Yuan |
| Probe: ENV216_101683_Filter On | Polarity: Line |
| EUT: Radio DÅNDIMPEN | Power: AC 120V/60Hz |
| **Test Mode 1** | |

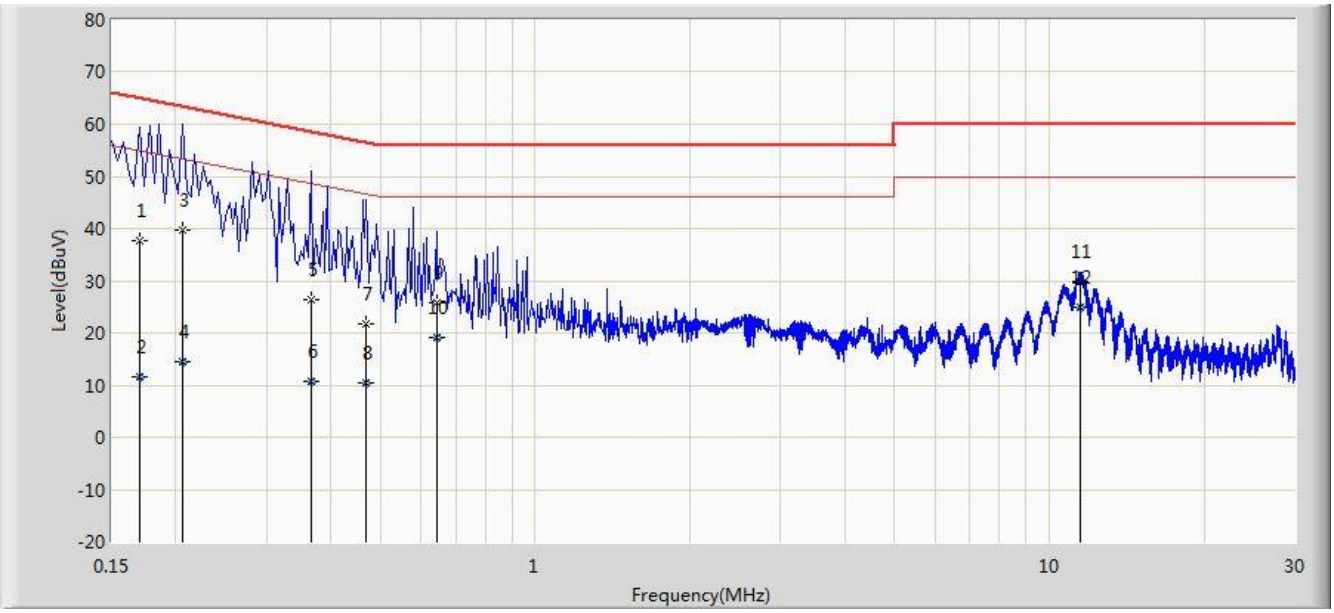



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 0.154 | 45.440 | 34.700 | -20.342 | 65.781 | 10.740 | QP |
| 2 | | | 0.154 | 18.640 | 7.900 | -37.142 | 55.781 | 10.740 | AV |
| 3 | | | 0.258 | 35.263 | 25.292 | -26.233 | 61.496 | 9.970 | QP |
| 4 | | | 0.258 | 16.848 | 6.878 | -34.647 | 51.496 | 9.970 | AV |
| 5 | | | 0.374 | 29.988 | 19.923 | -28.424 | 58.412 | 10.064 | QP |
| 6 | | | 0.374 | 18.730 | 8.666 | -29.681 | 48.412 | 10.064 | AV |
| 7 | | | 0.442 | 26.788 | 16.668 | -30.237 | 57.024 | 10.120 | QP |
| 8 | | | 0.442 | 16.089 | 5.969 | -30.935 | 47.024 | 10.120 | AV |
| 9 | | | 0.658 | 39.003 | 28.918 | -16.997 | 56.000 | 10.085 | QP |
| 10 | | * | 0.658 | 35.534 | 25.450 | -10.466 | 46.000 | 10.085 | AV |
| 11 | | | 11.430 | 27.853 | 17.756 | -32.147 | 60.000 | 10.097 | QP |
| 12 | | | 11.430 | 21.190 | 11.093 | -28.810 | 50.000 | 10.097 | AV |

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

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

| | |
|---|---|
| Site: SR2 | Time: 2019/09/25 - 13:38 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Liz Yuan |
| Probe: ENV216_101683_Filter On | Polarity: Neutral |
| EUT: Radio DÅNDIMPEN | Power: AC 120V/60Hz |
| **Test Mode 1** | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 0.170 | 37.757 | 27.693 | -27.204 | 64.960 | 10.064 | QP |
| 2 | | | 0.170 | 11.568 | 1.504 | -43.393 | 54.960 | 10.064 | AV |
| 3 | | * | 0.206 | 39.801 | 29.800 | -23.564 | 63.365 | 10.001 | QP |
| 4 | | | 0.206 | 14.601 | 4.600 | -38.764 | 53.365 | 10.001 | AV |
| 5 | | | 0.366 | 26.303 | 16.216 | -32.289 | 58.591 | 10.087 | QP |
| 6 | | | 0.366 | 10.704 | 0.617 | -37.887 | 48.591 | 10.087 | AV |
| 7 | | | 0.470 | 21.659 | 11.495 | -34.855 | 56.514 | 10.164 | QP |
| 8 | | | 0.470 | 10.500 | 0.335 | -36.014 | 46.514 | 10.164 | AV |
| 9 | | | 0.642 | 25.904 | 15.796 | -30.096 | 56.000 | 10.108 | QP |
| 10 | | | 0.642 | 19.176 | 9.069 | -26.824 | 46.000 | 10.108 | AV |
| 11 | | | 11.506 | 29.846 | 19.719 | -30.154 | 60.000 | 10.127 | QP |
| 12 | | | 11.506 | 25.019 | 14.891 | -24.981 | 50.000 | 10.127 | 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 device is in compliance with Part 15C of the FCC rules and RSS-247 of ISED rules.

The End

# Appendix A – Test Setup Photograph

Refer to “1906WSU019-UT” file.

# Appendix B – EUT Photograph

Refer to “1906WSU019-UE” file.