4.3.7 Test Result (Mode 1)

**802.11b**

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | |
| 1 | 2412 | 10.14 | 10.14 | 0.5 | Pass |
| 6 | 2437 | 10.14 | 10.13 | 0.5 | Pass |
| 11 | 2462 | 10.13 | 10.13 | 0.5 | Pass |
| 12 | 2467 | 10.15 | 10.15 | 0.5 | Pass |
| 13 | 2472 | 10.16 | 10.14 | 0.5 | Pass |

**802.11g**

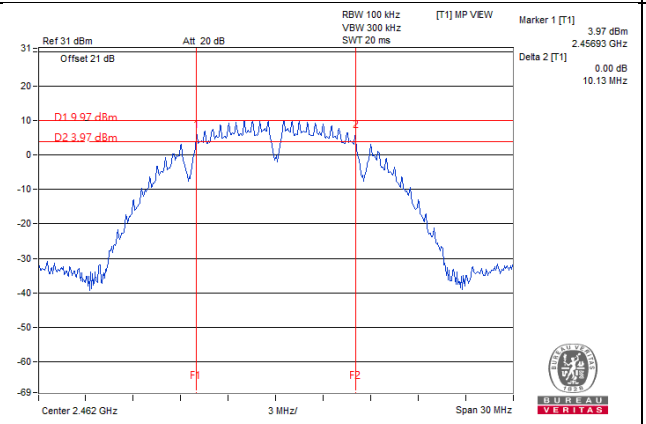
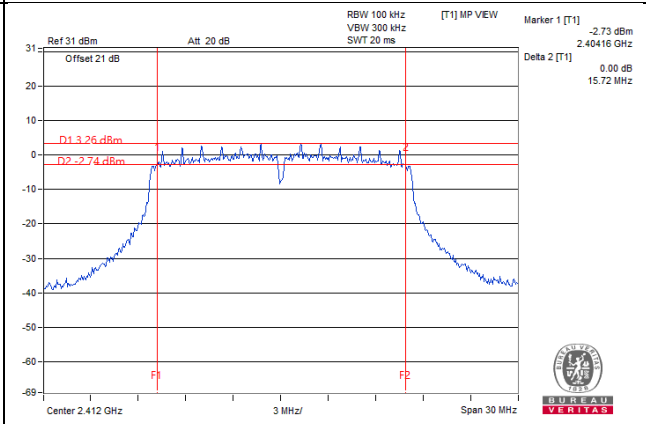
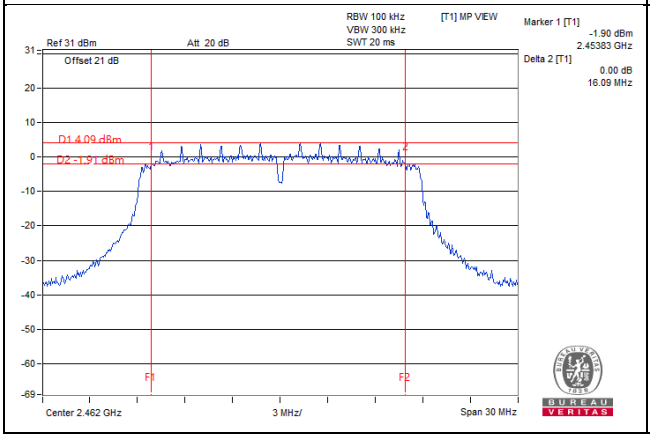
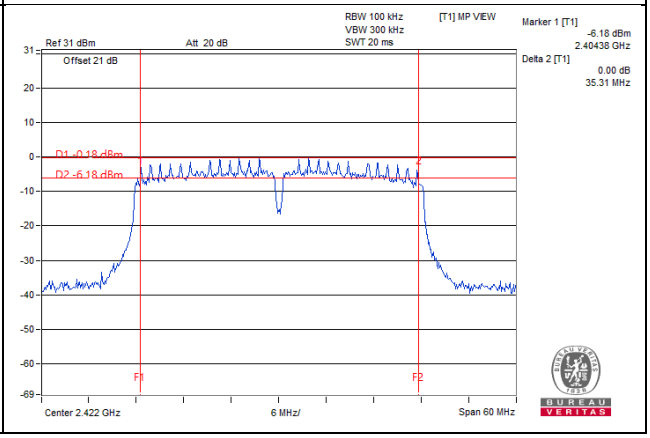
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | |
| 1 | 2412 | 15.72 | 15.99 | 0.5 | Pass |
| 6 | 2437 | 15.77 | 16 | 0.5 | Pass |
| 11 | 2462 | 15.76 | 16 | 0.5 | Pass |
| 12 | 2467 | 15.76 | 15.98 | 0.5 | Pass |
| 13 | 2472 | 16.37 | 16.39 | 0.5 | Pass |

**VHT20**

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | |
| 1 | 2412 | 16.34 | 16.34 | 0.5 | Pass |
| 6 | 2437 | 16.33 | 16.33 | 0.5 | Pass |
| 11 | 2462 | 16.09 | 16.69 | 0.5 | Pass |
| 12 | 2467 | 16.33 | 16.33 | 0.5 | Pass |
| 13 | 2472 | 17.61 | 17.61 | 0.5 | Pass |

**VHT40**

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | |
| 3 | 2422 | 35.32 | 35.31 | 0.5 | Pass |
| 6 | 2437 | 35.4 | 35.37 | 0.5 | Pass |
| 9 | 2452 | 35.41 | 35.38 | 0.5 | Pass |
| 10 | 2457 | 35.36 | 35.6 | 0.5 | Pass |
| 11 | 2462 | 35.61 | 35.36 | 0.5 | Pass |

| Spectrum Plot of Worst Value | |
|---|---|
| **802.11b / Chain 0 : CH11** | **802.11g / Chain 0 : CH1** |
|  |  |
| **VHT20 / Chain 0 : CH11** | **VHT40 / Chain 1 : CH3** |
|  |  |

4.3.8 Test Result (Mode 2)

**802.11b**

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|
| 1 | 2412 | 10.15 | 0.5 | Pass |
| 6 | 2437 | 10.14 | 0.5 | Pass |
| 11 | 2462 | 10.14 | 0.5 | Pass |
| 12 | 2467 | 10.15 | 0.5 | Pass |
| 13 | 2472 | 10.15 | 0.5 | Pass |

**802.11g**

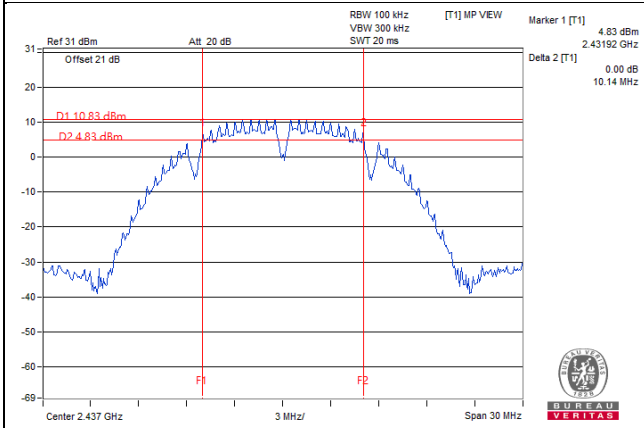
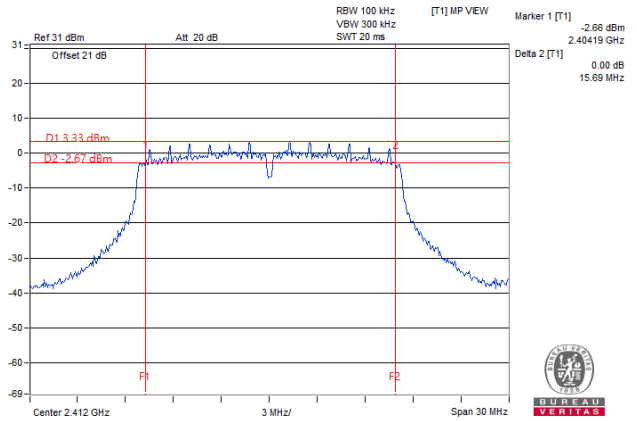
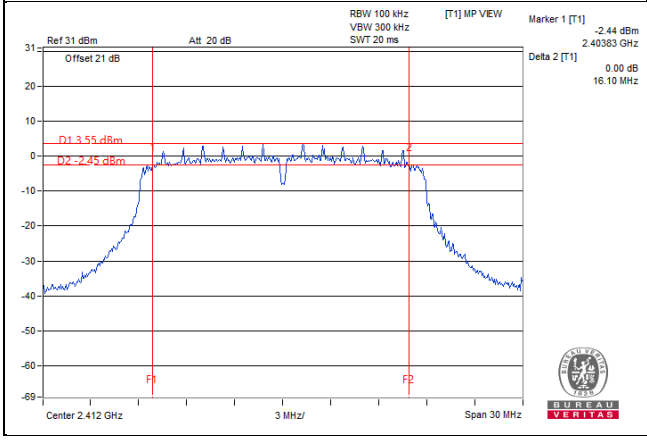
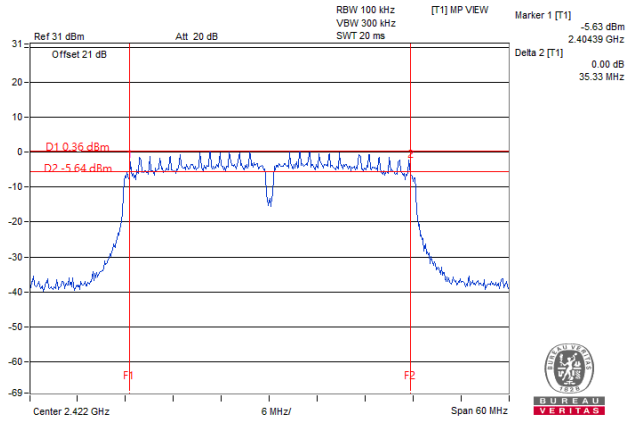
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|
| 1 | 2412 | 15.69 | 0.5 | Pass |
| 6 | 2437 | 15.76 | 0.5 | Pass |
| 11 | 2462 | 15.73 | 0.5 | Pass |
| 12 | 2467 | 15.75 | 0.5 | Pass |
| 13 | 2472 | 16.37 | 0.5 | Pass |

**VHT20**

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|
| 1 | 2412 | 16.1 | 0.5 | Pass |
| 6 | 2437 | 16.34 | 0.5 | Pass |
| 11 | 2462 | 16.33 | 0.5 | Pass |
| 12 | 2467 | 16.33 | 0.5 | Pass |
| 13 | 2472 | 17.61 | 0.5 | Pass |

**VHT40**

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|
| 3 | 2422 | 35.33 | 0.5 | Pass |
| 6 | 2437 | 35.39 | 0.5 | Pass |
| 9 | 2452 | 35.4 | 0.5 | Pass |
| 10 | 2457 | 35.35 | 0.5 | Pass |
| 11 | 2462 | 35.34 | 0.5 | Pass |

| Spectrum Plot of Worst Value | |
|---|---|
| **802.11b / CH6** | **802.11g / CH1** |
|  |  |
| **VHT20 / CH1** | **VHT40 / CH3** |
|  |  |

## 4.4 Conducted Output Power Measurement

### 4.4.1 Limits of Conducted Output Power Measurement

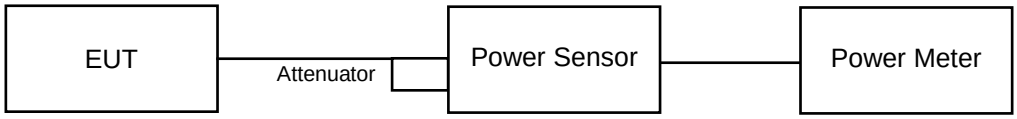
For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any $N_{ANT}$;
Array Gain = 5 log($N_{ANT}/N_{SS}$) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = 10 log($N_{ANT}/N_{SS}$) dB.

### 4.4.2 Test Setup




### 4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.4.4 Test Procedures

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

### 4.4.5 Deviation from Test Standard

No deviation.

### 4.4.6 EUT Operating Conditions

Same as Item 4.3.6.

4.4.7 Test Results (Mode 1)

**CDD Mode**

**802.11b**

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | | | |
| 1 | 2412 | 19.58 | 19.54 | 180.732 | 22.57 | 30.00 | Pass |
| 6 | 2437 | 20.54 | 20.57 | 227.265 | 23.57 | 30.00 | Pass |
| 11 | 2462 | 19.51 | 19.56 | 179.695 | 22.55 | 30.00 | Pass |
| 12 | 2467 | 14.70 | 14.62 | 58.486 | 17.67 | 30.00 | Pass |
| 13 | 2472 | 12.93 | 13.16 | 40.335 | 16.06 | 30.00 | Pass |

**802.11g**

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | | | |
| 1 | 2412 | 14.52 | 14.88 | 59.075 | 17.71 | 30.00 | Pass |
| 6 | 2437 | 20.78 | 20.70 | 237.164 | 23.75 | 30.00 | Pass |
| 11 | 2462 | 14.59 | 14.56 | 57.35 | 17.59 | 30.00 | Pass |
| 12 | 2467 | 11.60 | 11.54 | 28.71 | 14.58 | 30.00 | Pass |
| 13 | 2472 | 8.51 | 8.66 | 14.441 | 11.60 | 30.00 | Pass |

**VHT20**

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | | | |
| 1 | 2412 | 14.62 | 14.53 | 57.353 | 17.59 | 30.00 | Pass |
| 6 | 2437 | 20.82 | 20.78 | 240.455 | 23.81 | 30.00 | Pass |
| 11 | 2462 | 14.62 | 14.56 | 57.549 | 17.60 | 30.00 | Pass |
| 12 | 2467 | 11.73 | 11.61 | 29.381 | 14.68 | 30.00 | Pass |
| 13 | 2472 | 8.72 | 8.55 | 14.609 | 11.65 | 30.00 | Pass |

## VHT40

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | | | |
| 3 | 2422 | 13.61 | 13.52 | 45.452 | 16.58 | 30.00 | Pass |
| 6 | 2437 | 17.57 | 17.56 | 114.164 | 20.58 | 30.00 | Pass |
| 9 | 2452 | 14.67 | 14.77 | 59.301 | 17.73 | 30.00 | Pass |
| 10 | 2457 | 11.81 | 11.66 | 29.826 | 14.75 | 30.00 | Pass |
| 11 | 2462 | 7.95 | 7.97 | 12.503 | 10.97 | 30.00 | Pass |

## Beamforming Mode

### VHT20

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | | | |
| 1 | 2412 | 14.62 | 14.53 | 57.353 | 17.59 | 29.49 | Pass |
| 6 | 2437 | 20.82 | 20.78 | 240.455 | 23.81 | 29.49 | Pass |
| 11 | 2462 | 14.62 | 14.56 | 57.549 | 17.60 | 29.49 | Pass |
| 12 | 2467 | 11.73 | 11.61 | 29.381 | 14.68 | 29.49 | Pass |
| 13 | 2472 | 8.72 | 8.55 | 14.609 | 11.65 | 29.49 | Pass |

**Note:** 1. Directional gain = 3.5 dBi +10 log(2) = 6.51dBi > 6dBi , so the power limit shall be reduced to 30-(6.51-6) = 29.49dBm.

### VHT40

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | | | |
| 3 | 2422 | 13.61 | 13.52 | 45.452 | 16.58 | 29.49 | Pass |
| 6 | 2437 | 17.57 | 17.56 | 114.164 | 20.58 | 29.49 | Pass |
| 9 | 2452 | 14.67 | 14.77 | 59.301 | 17.73 | 29.49 | Pass |
| 10 | 2457 | 11.81 | 11.66 | 29.826 | 14.75 | 29.49 | Pass |
| 11 | 2462 | 7.95 | 7.97 | 12.503 | 10.97 | 29.49 | Pass |

**Note:** 1. Directional gain = 3.5 dBi +10 log(2) = 6.51dBi > 6dBi , so the power limit shall be reduced to 30-(6.51-6) = 29.49dBm.

4.4.8 Test Results (Mode 2)

**802.11b**

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|
| 1 | 2412 | 90.157 | 19.55 | 30 | Pass |
| 6 | 2437 | 114.551 | 20.59 | 30 | Pass |
| 11 | 2462 | 92.257 | 19.65 | 30 | Pass |
| 12 | 2467 | 28.314 | 14.52 | 30 | Pass |
| 13 | 2472 | 22.909 | 13.60 | 30 | Pass |

**802.11g**

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|
| 1 | 2412 | 29.174 | 14.65 | 30 | Pass |
| 6 | 2437 | 116.95 | 20.68 | 30 | Pass |
| 11 | 2462 | 29.242 | 14.66 | 30 | Pass |
| 12 | 2467 | 14.723 | 11.68 | 30 | Pass |
| 13 | 2472 | 7.079 | 8.50 | 30 | Pass |

**VHT20**

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|
| 1 | 2412 | 29.04 | 14.63 | 30 | Pass |
| 6 | 2437 | 115.08 | 20.61 | 30 | Pass |
| 11 | 2462 | 29.174 | 14.65 | 30 | Pass |
| 12 | 2467 | 14.421 | 11.59 | 30 | Pass |
| 13 | 2472 | 7.499 | 8.75 | 30 | Pass |

## VHT40

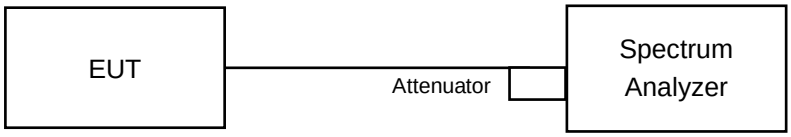
| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|
| 3 | 2422 | 29.923 | 14.76 | 30 | Pass |
| 6 | 2437 | 56.494 | 17.52 | 30 | Pass |
| 9 | 2452 | 30.061 | 14.78 | 30 | Pass |
| 10 | 2457 | 14.723 | 11.68 | 30 | Pass |
| 11 | 2462 | 7.551 | 8.78 | 30 | Pass |

## 4.5 Power Spectral Density Measurement

### 4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm in any 3 kHz.

### 4.5.2 Test Setup




### 4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.5.4 Test Procedure

a) Set instrument center frequency to DTS channel center frequency.
b) Set span to at least 1.5 times the OBW.
c) Set RBW to: 3 kHz ≤ RBW ≤ 100 kHz. .
d) Set VBW ≥3 x RBW.
e) Detector = power averaging (RMS) or sample detector (when RMS not available).
f) Ensure that the number of measurement points in the sweep ≥ 2 x span/RBW.
g) Sweep time = auto couple.
h) Employ trace averaging (RMS) mode over a minimum of 100 traces.
i) Use the peak marker function to determine the maximum amplitude level.

### 4.5.5 Deviation from Test Standard

No deviation.

### 4.5.6 EUT Operating Condition

Same as Item 4.3.6

4.5.7 Test Results (Mode 1)

**802.11b**

| Chan. | Chan. Freq. (MHz) | PSD (dBm/3kHz) | | Total PSD (mW/3kHz) | Total PSD (dBm/3kHz) | PSD Limit (dBm/3kHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain0 | Chain1 | | | | |
| 1 | 2412 | -11.03 | -11.33 | 0.15241 | -8.17 | 7.49 | PASS |
| 6 | 2437 | -9.77 | -10.30 | 0.19861 | -7.02 | 7.49 | PASS |
| 11 | 2462 | -11.86 | -11.45 | 0.13677 | -8.64 | 7.49 | PASS |
| 12 | 2467 | -15.67 | -15.37 | 0.0561 | -12.51 | 7.49 | PASS |
| 13 | 2472 | -18.43 | -17.76 | 0.03112 | -15.07 | 7.49 | PASS |

**Note:**
1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 3.5 dBi + 10log(2) = 6.51 dBi, so the power density limit shall be reduced to 8-(6.51-6) = 7.49dBm.

**802.11g**

| Chan. | Chan. Freq. (MHz) | PSD (dBm/3kHz) | | Total PSD (mW/3kHz) | Total PSD (dBm/3kHz) | PSD Limit (dBm/3kHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain0 | Chain1 | | | | |
| 1 | 2412 | -16.51 | -16.60 | 0.04426 | -13.54 | 7.49 | PASS |
| 6 | 2437 | -10.40 | -11.36 | 0.16444 | -7.84 | 7.49 | PASS |
| 11 | 2462 | -16.74 | -16.53 | 0.04345 | -13.62 | 7.49 | PASS |
| 12 | 2467 | -18.72 | -19.34 | 0.02506 | -16.01 | 7.49 | PASS |
| 13 | 2472 | -22.08 | -23.14 | 0.011041 | -19.57 | 7.49 | PASS |

**Note:**
1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 3.5 dBi + 10log(2) = 6.51 dBi, so the power density limit shall be reduced to 8-(6.51-6) = 7.49dBm.

## VHT20

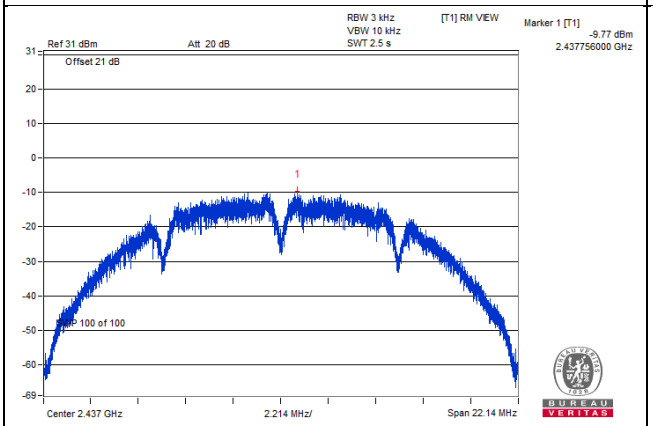
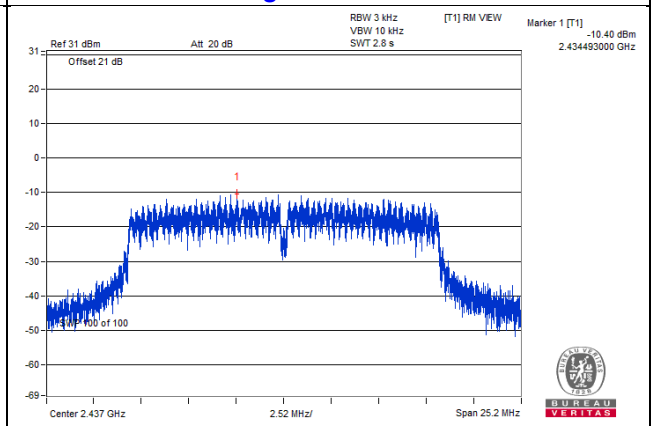
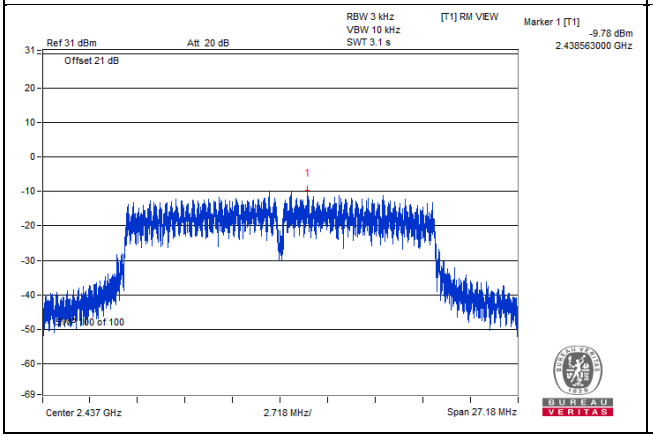
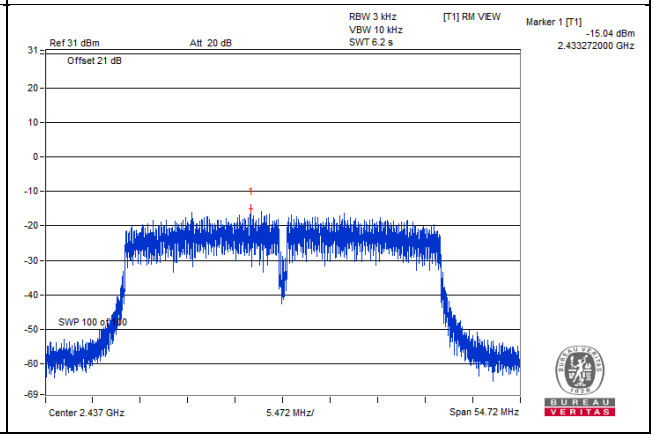
| Chan. | Chan. Freq. (MHz) | PSD (dBm/3kHz) | | Total PSD (mW/3kHz) | Total PSD (dBm/3kHz) | PSD Limit (dBm/3kHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain0 | Chain1 | | | | |
| 1 | 2412 | -16.28 | -15.49 | 0.05176 | -12.86 | 7.49 | PASS |
| 6 | 2437 | -9.78 | -10.84 | 0.1875 | -7.27 | 7.49 | PASS |
| 11 | 2462 | -16.09 | -17.00 | 0.04457 | -13.51 | 7.49 | PASS |
| 12 | 2467 | -19.44 | -17.60 | 0.02877 | -15.41 | 7.49 | PASS |
| 13 | 2472 | -21.63 | -21.66 | 0.013709 | -18.63 | 7.49 | PASS |

**Note:**
1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 3.5 dBi + 10log(2) = 6.51 dBi, so the power density limit shall be reduced to 8-(6.51-6) = 7.49dBm.

## VHT40

| Chan. | Chan. Freq. (MHz) | PSD (dBm/3kHz) | | Total PSD (mW/3kHz) | Total PSD (dBm/3kHz) | PSD Limit (dBm/3kHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain0 | Chain1 | | | | |
| 3 | 2422 | -18.18 | -19.95 | 0.02529 | -15.97 | 7.49 | PASS |
| 6 | 2437 | -15.04 | -15.19 | 0.06166 | -12.10 | 7.49 | PASS |
| 9 | 2452 | -17.78 | -18.00 | 0.03251 | -14.88 | 7.49 | PASS |
| 10 | 2457 | -20.75 | -21.15 | 0.016069 | -17.94 | 7.49 | PASS |
| 11 | 2462 | -25.34 | -24.28 | 0.006653 | -21.77 | 7.49 | PASS |

**Note:**
1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 3.5 dBi + 10log(2) = 6.51 dBi, so the power density limit shall be reduced to 8-(6.51-6) = 7.49dBm.

| Spectrum Plot of Worst Value | |
|---|---|
| **802.11b / Chain 0: CH6** | **802.11g / Chain 0 : CH6** |
|  |  |
| **VHT20 / Chain 0: CH6** | **VHT40 / Chain 0: CH6** |
|  |  |

4.5.8 Test Results (Mode 2)

**802.11b**

| Channel | Frequency (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Pass /Fail |
|---|---|---|---|---|
| 1 | 2412 | -11.23 | 8 | Pass |
| 6 | 2437 | -10.68 | 8 | Pass |
| 11 | 2462 | -10.70 | 8 | Pass |
| 12 | 2467 | -15.97 | 8 | Pass |
| 13 | 2472 | -16.36 | 8 | Pass |

**802.11g**

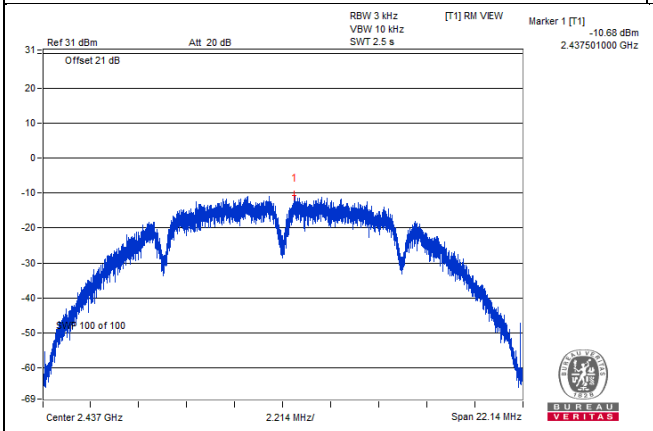
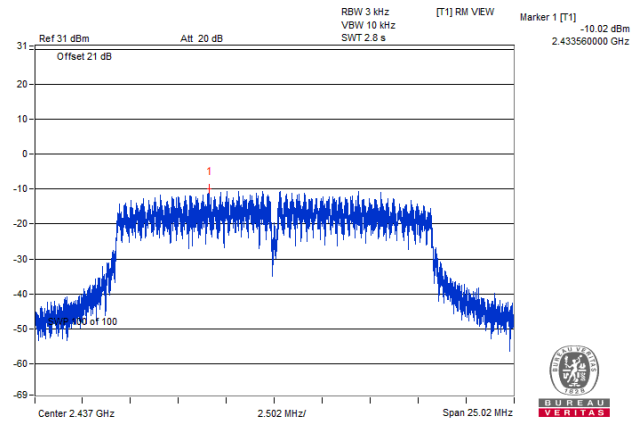
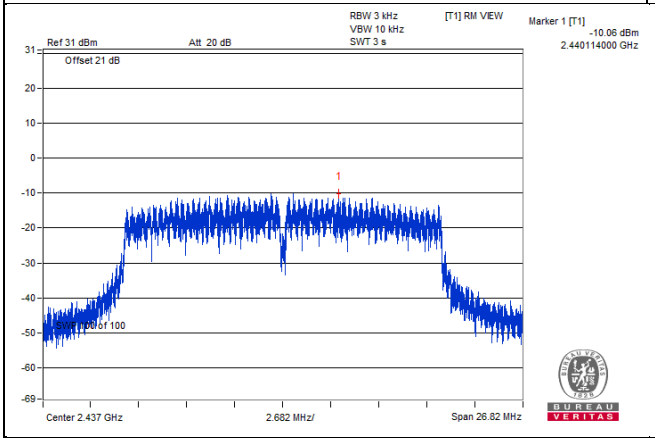
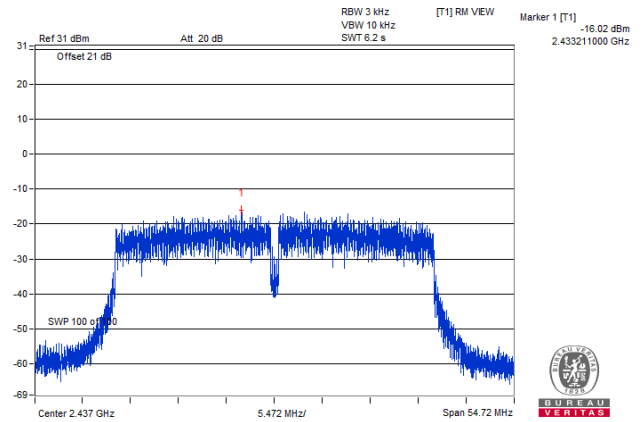
| Channel | Frequency (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Pass /Fail |
|---|---|---|---|---|
| 1 | 2412 | -16.62 | 8 | Pass |
| 6 | 2437 | -10.02 | 8 | Pass |
| 11 | 2462 | -16.59 | 8 | Pass |
| 12 | 2467 | -19.28 | 8 | Pass |
| 13 | 2472 | -23.07 | 8 | Pass |

**VHT20**

| Channel | Frequency (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Pass /Fail |
|---|---|---|---|---|
| 1 | 2412 | -16.70 | 8 | Pass |
| 6 | 2437 | -10.06 | 8 | Pass |
| 11 | 2462 | -16.94 | 8 | Pass |
| 12 | 2467 | -20.13 | 8 | Pass |
| 13 | 2472 | -22.32 | 8 | Pass |

**VHT40**

| Channel | Frequency (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Pass /Fail |
|---|---|---|---|---|
| 3 | 2422 | -17.74 | 8 | Pass |
| 6 | 2437 | -16.02 | 8 | Pass |
| 9 | 2452 | -18.79 | 8 | Pass |
| 10 | 2457 | -20.82 | 8 | Pass |
| 11 | 2462 | -23.14 | 8 | Pass |

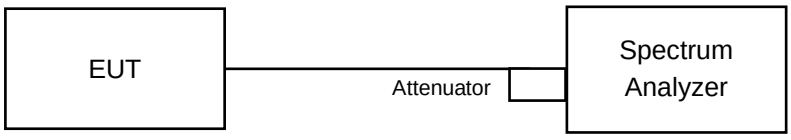
| Spectrum Plot of Worst Value | |
|---|---|
| **802.11b / CH6** | **802.11g / CH6** |
|  |  |
| **VHT20 / CH6** | **VHT40 / CH6** |
|  |  |

## 4.6 Conducted Out of Band Emission Measurement

### 4.6.1 Limits of Conducted Out of Band Emission Measurement

Below -30dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

### 4.6.2 Test Setup




### 4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.6.4 Test Procedure

**MEASUREMENT PROCEDURE REF**

1. Set the RBW = 100 kHz.
2. Set the VBW ≥ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

**MEASUREMENT PROCEDURE OOBE**

1. Set RBW = 100 kHz.
2. Set VBW ≥ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

### 4.6.5 Deviation from Test Standard

No deviation.

### 4.6.6 EUT Operating Condition

Same as Item 4.3.6

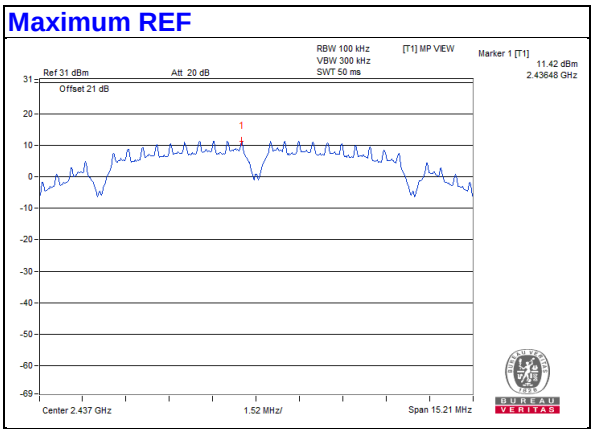
### 4.6.7 Test Results

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 30dB offset below D1. It shows compliance with the requirement.

**For Mode 1**

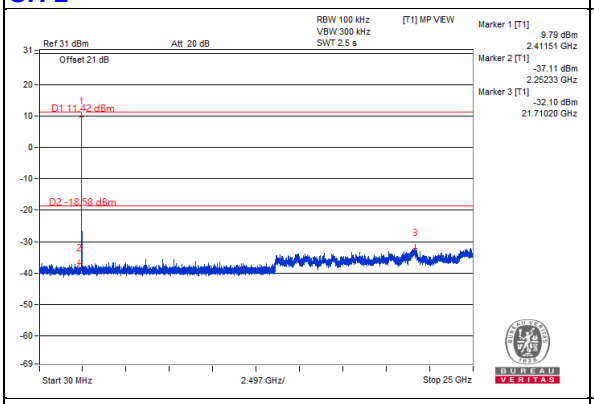
**802.11b**

## Maximum REF

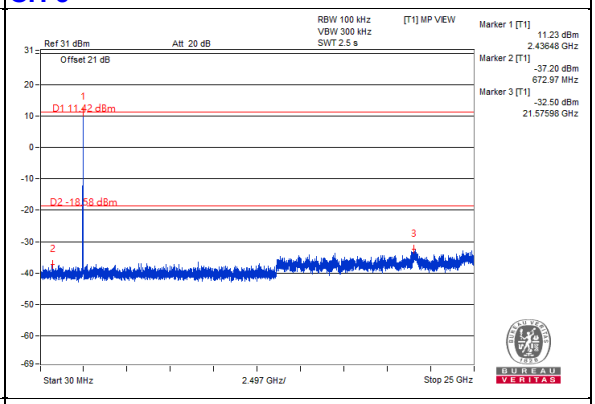



## Chain 0

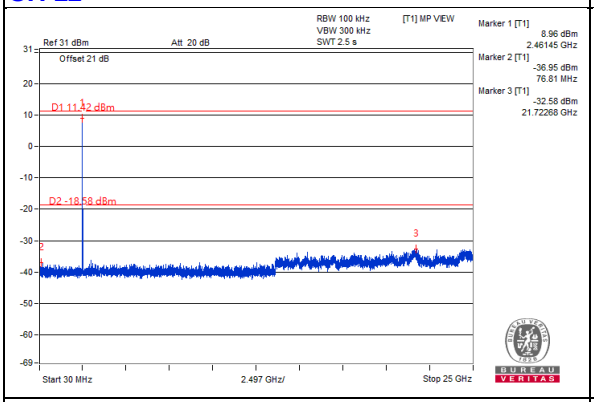
### CH 1



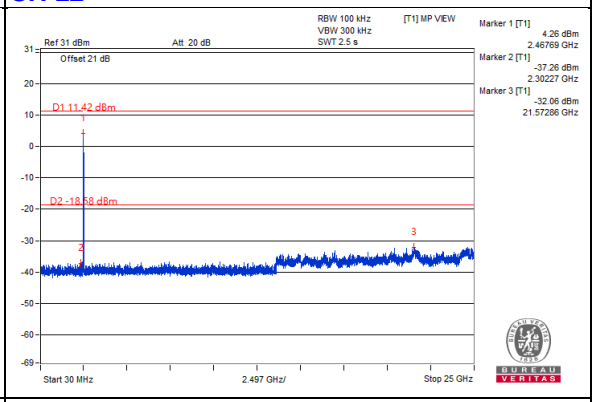

### CH 6



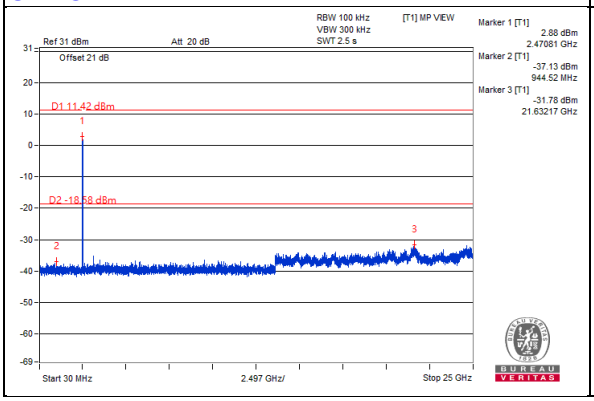

### CH 11



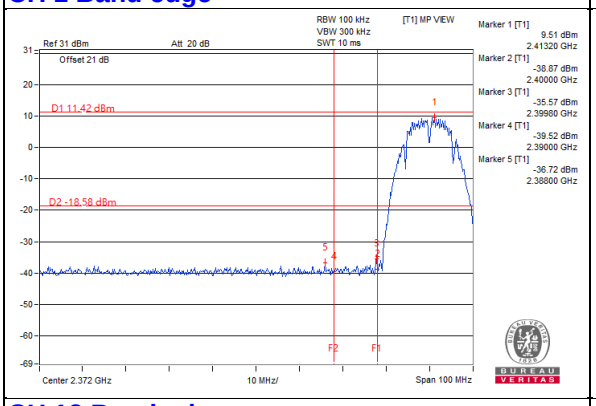

### CH 12



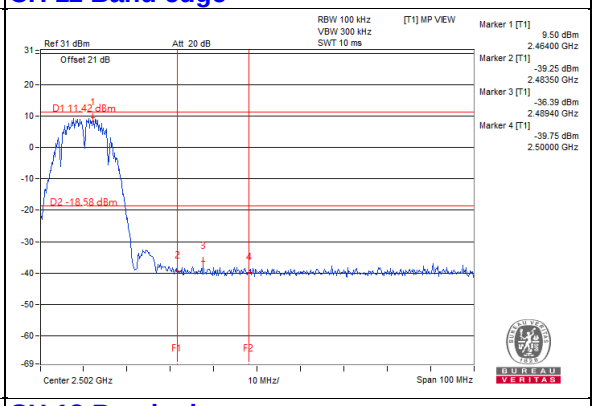

### CH 13



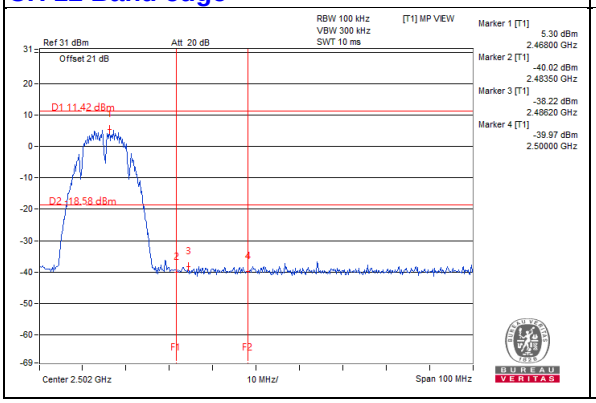
## CH 1 Band edge



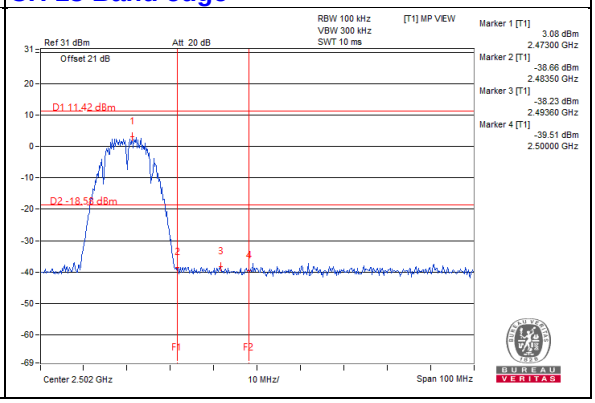

## CH 11 Band edge




## CH 12 Band edge

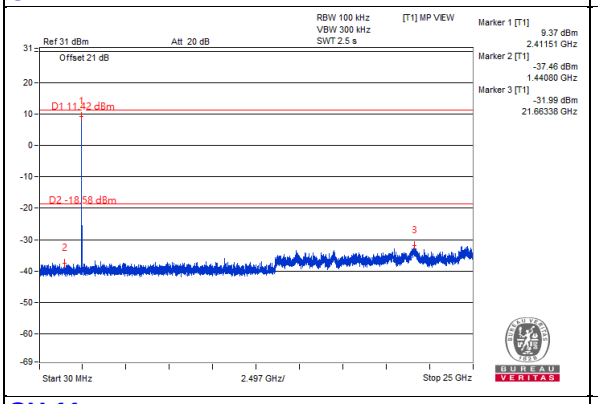



## CH 13 Band edge

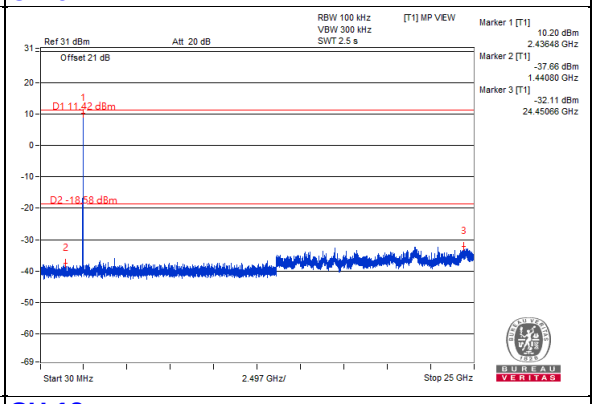


## Chain 1

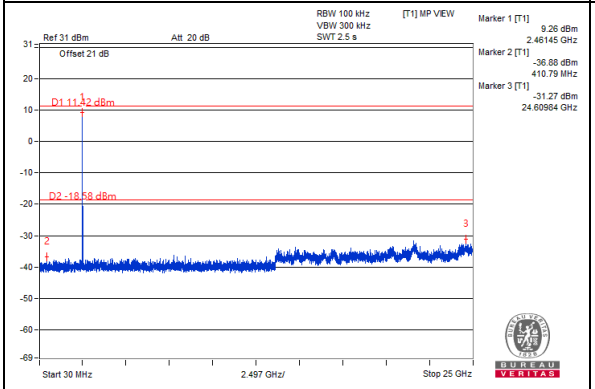
### CH 1



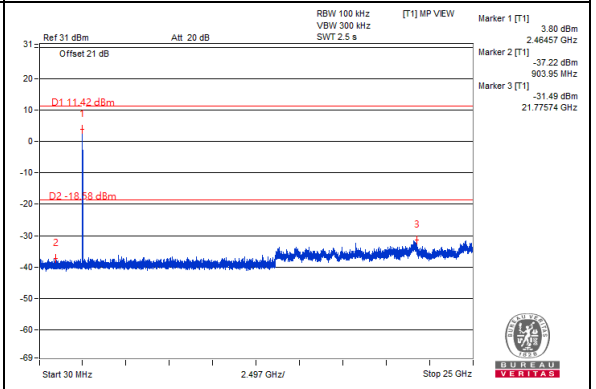

### CH 6



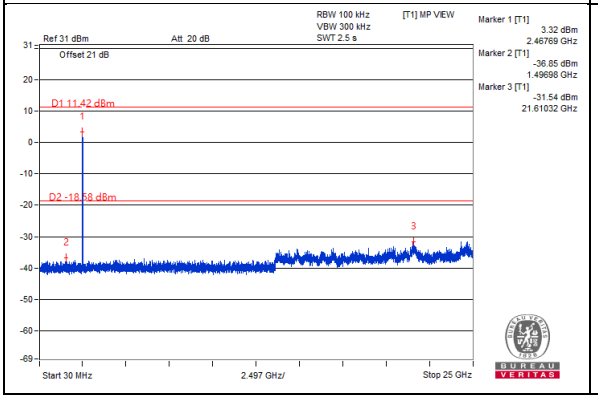

### CH 11



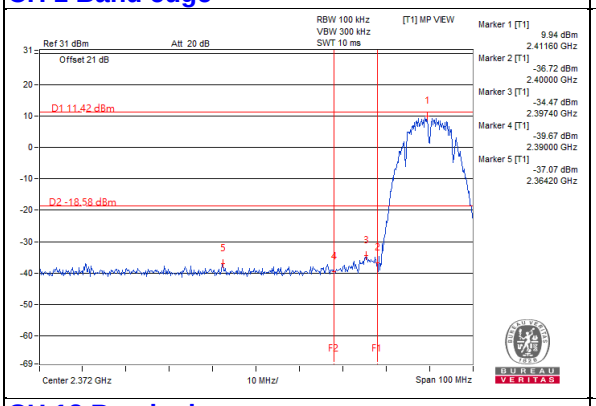

### CH 12



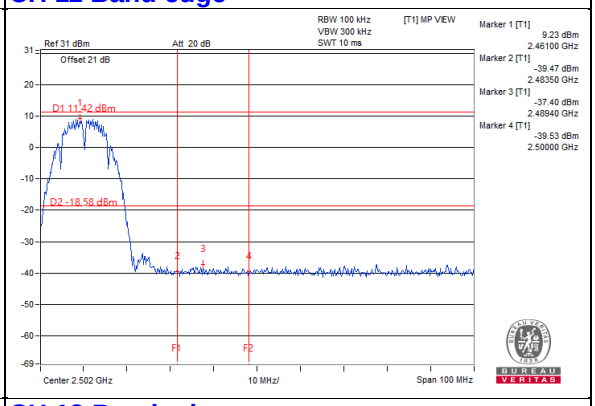

### CH 13



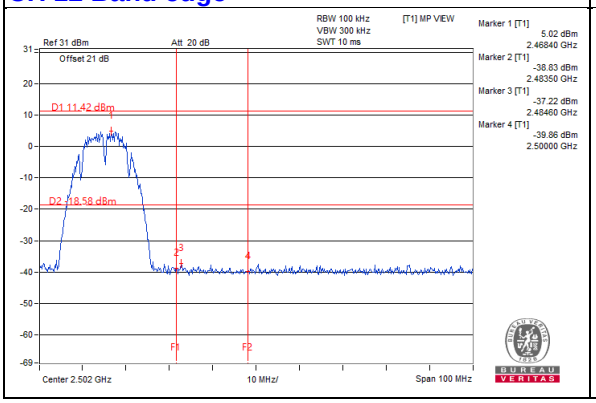
## CH 1 Band edge



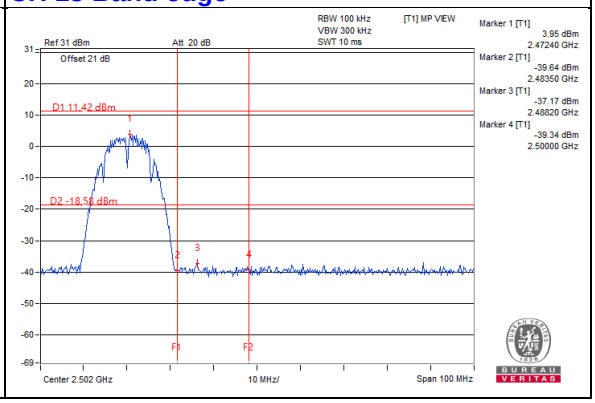

## CH 11 Band edge




## CH 12 Band edge

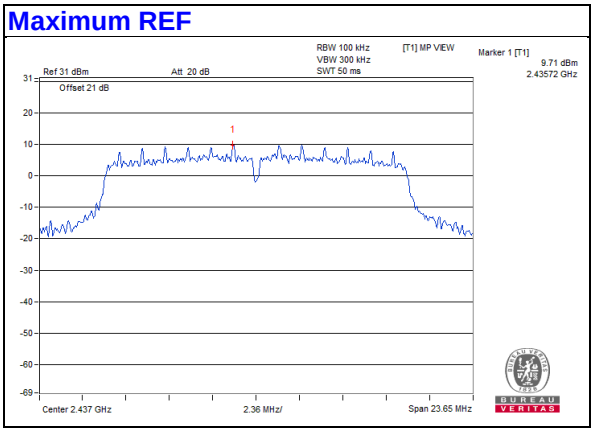



## CH 13 Band edge



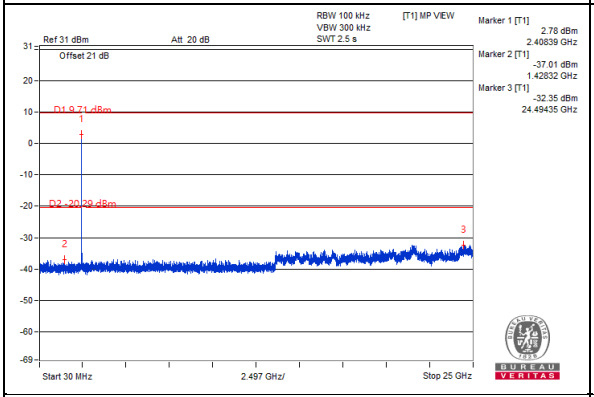
## 802.11g

### Maximum REF

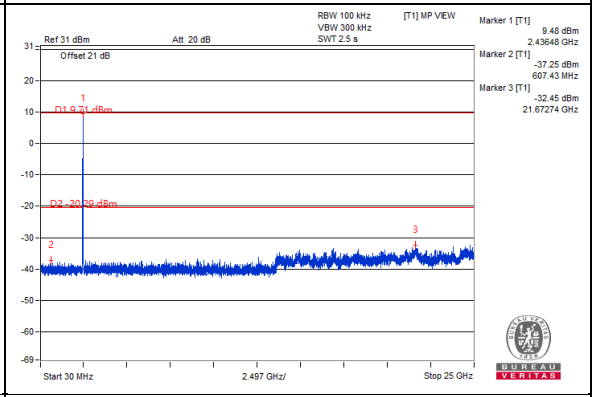



### Chain 0

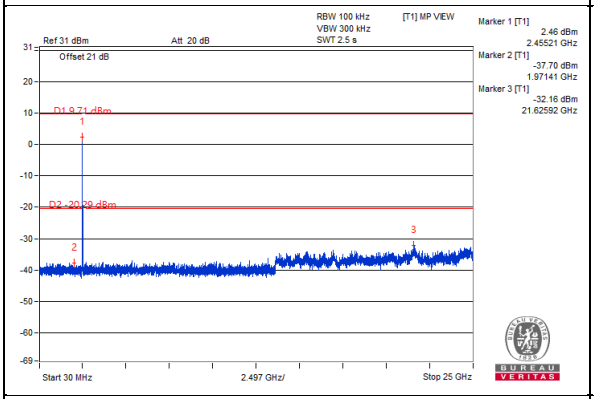
#### CH 1



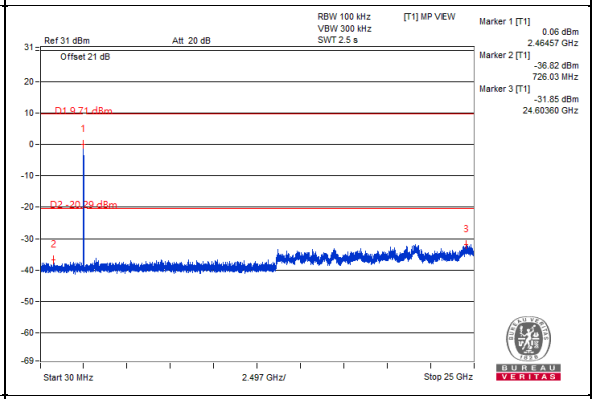

#### CH 6



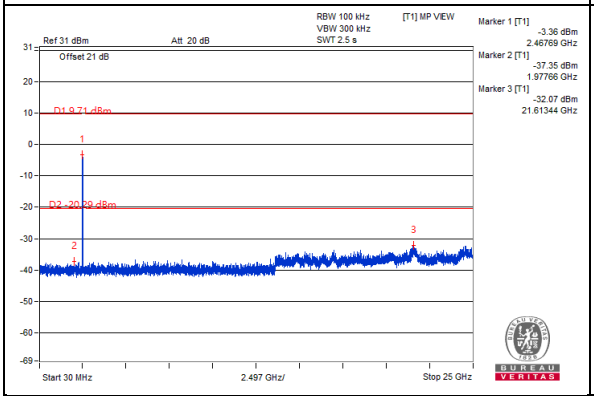

#### CH 11



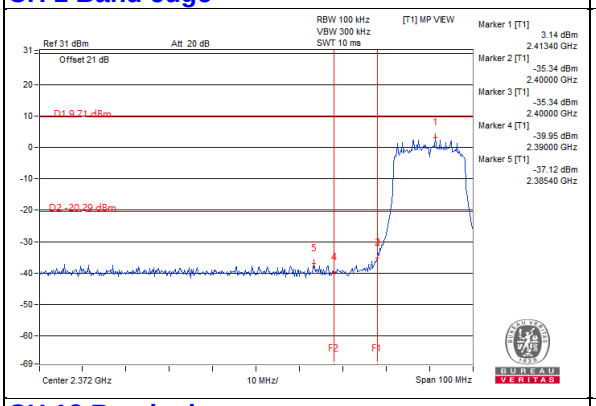

#### CH 12



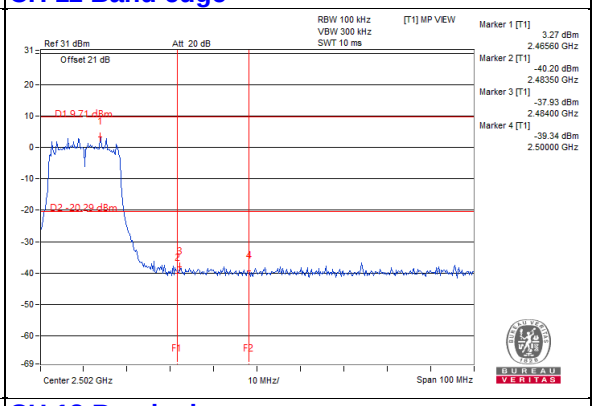

#### CH 13



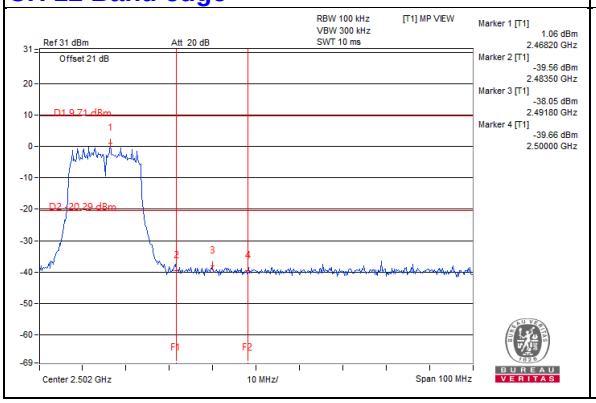
## CH 1 Band edge



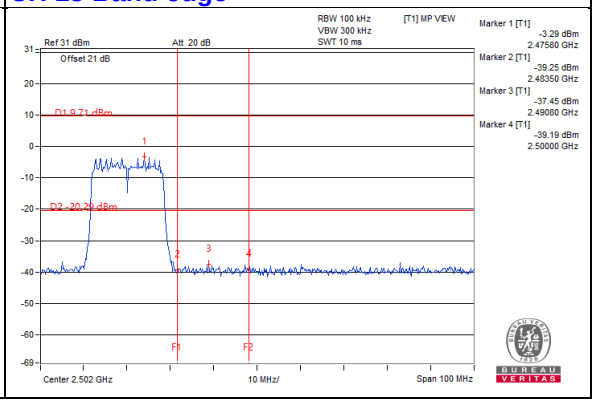

## CH 11 Band edge




## CH 12 Band edge

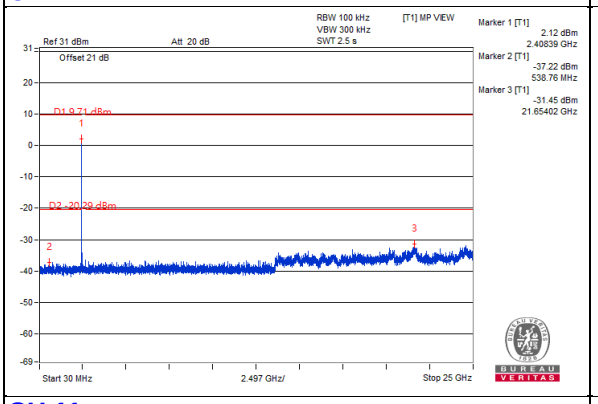



## CH 13 Band edge

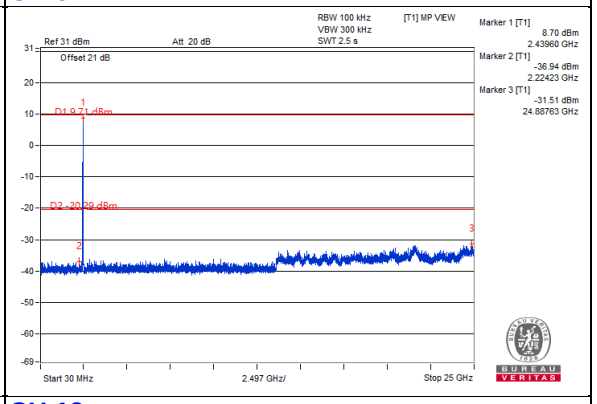


## Chain 1

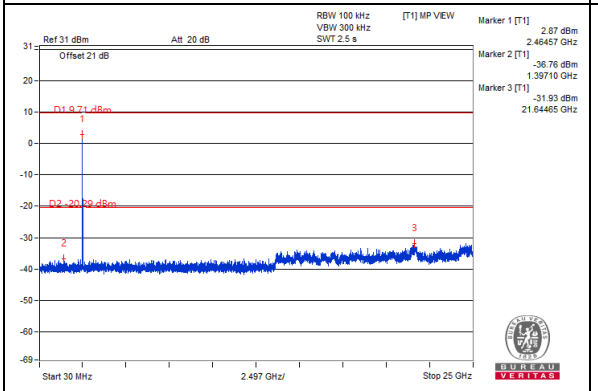
### CH 1



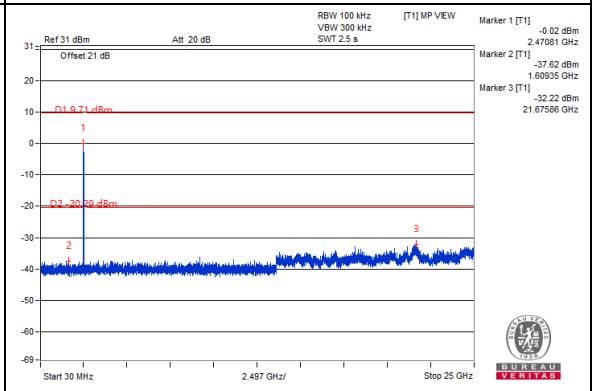

### CH 6



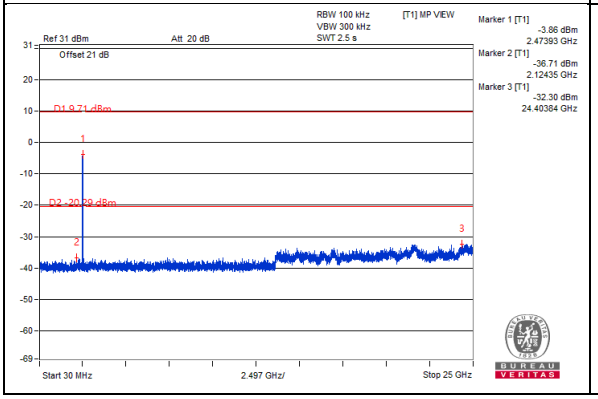

### CH 11



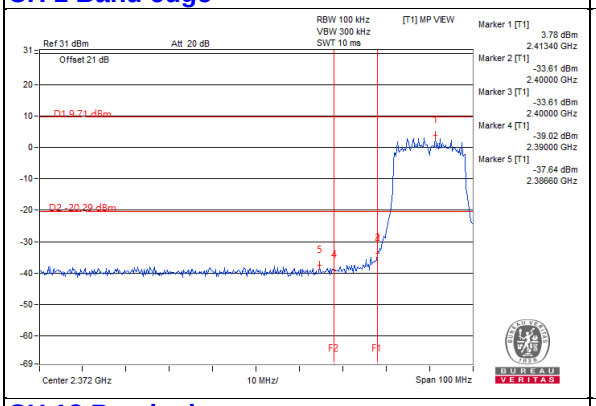

### CH 12



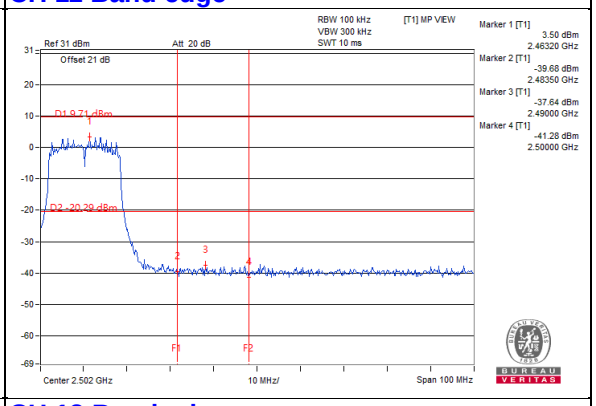

### CH 13



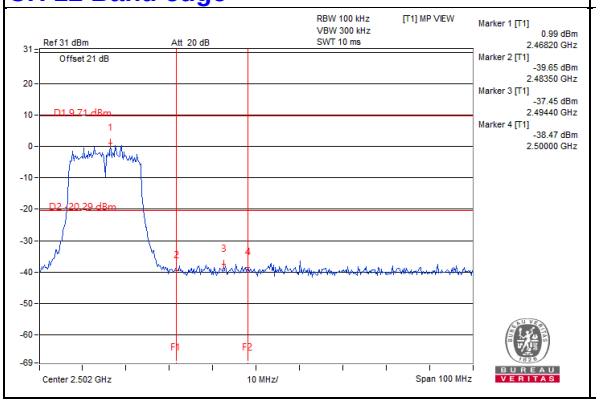
## CH 1 Band edge



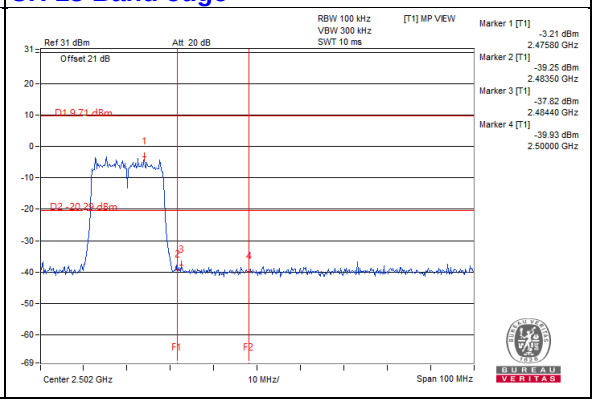

## CH 11 Band edge




## CH 12 Band edge

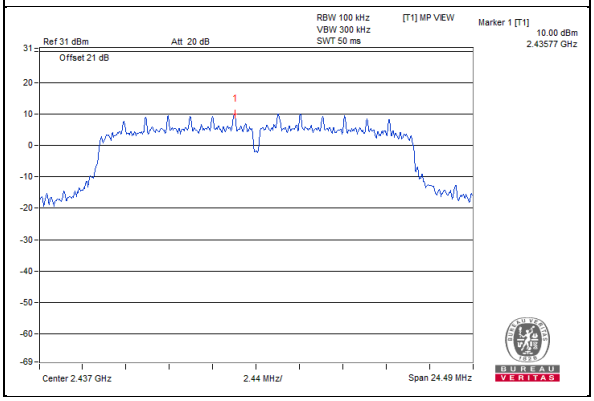



## CH 13 Band edge



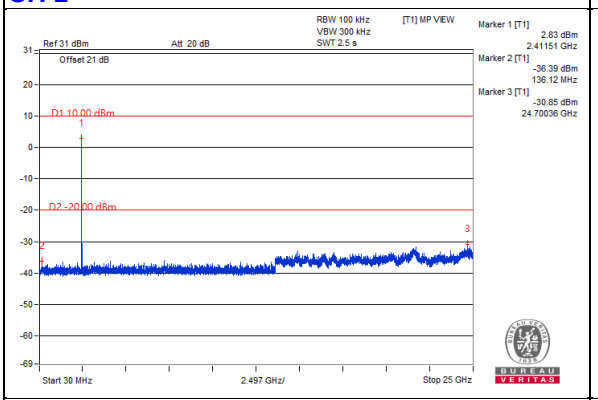
## VHT20

### Maximum REF

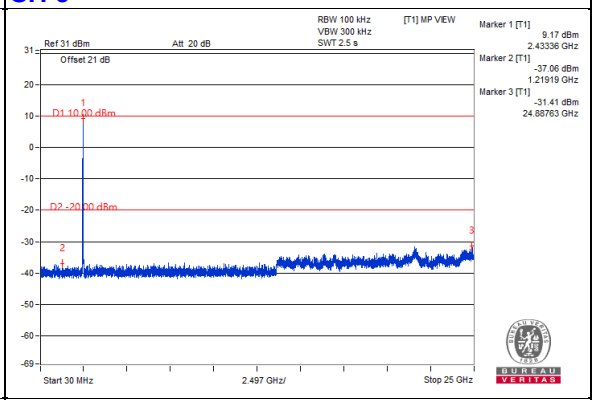



## Chain 0

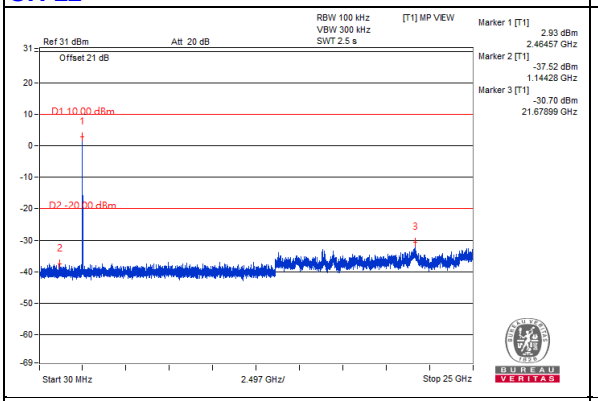
### CH 1



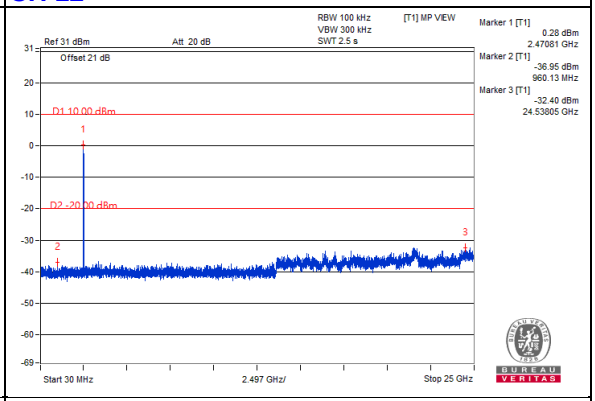

### CH 6



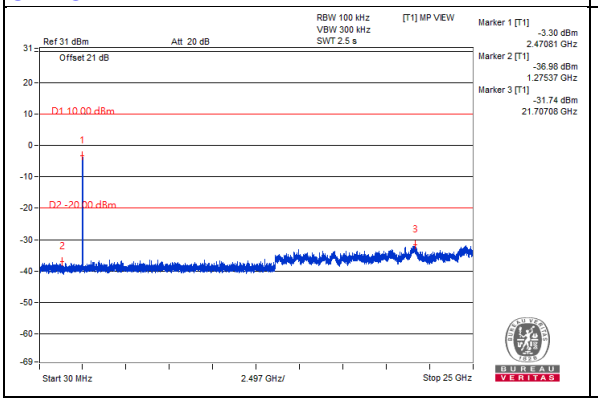

### CH 11



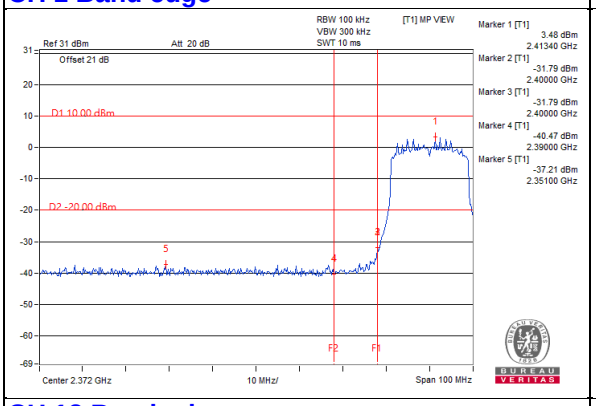

### CH 12



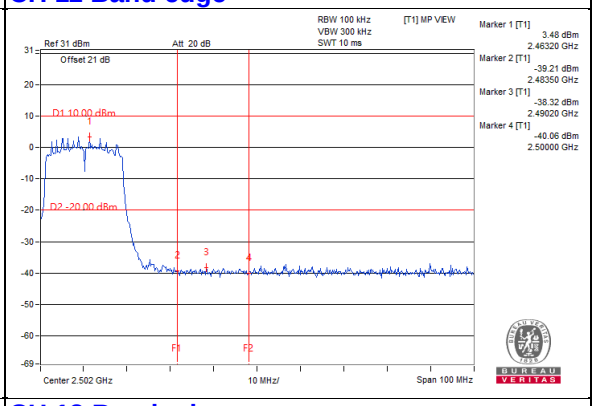

### CH 13



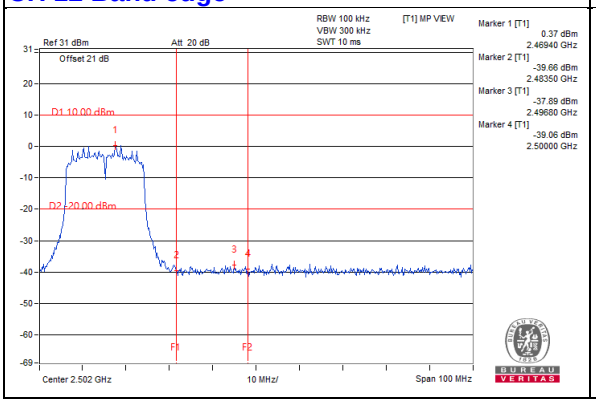
## CH 1 Band edge



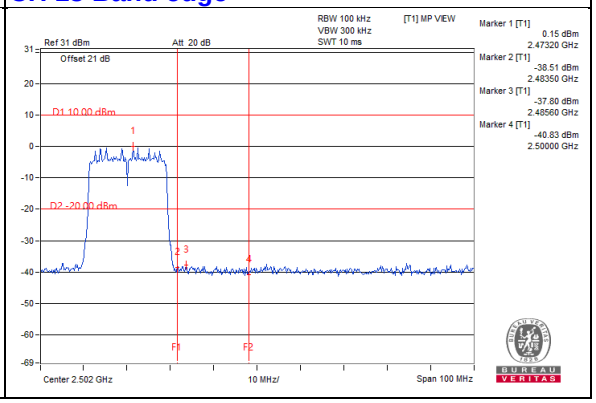

## CH 11 Band edge




## CH 12 Band edge

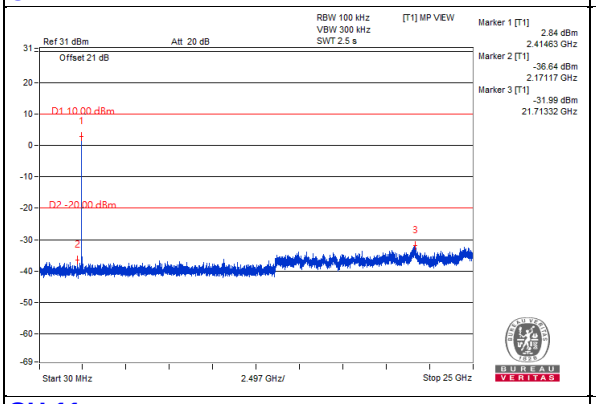



## CH 13 Band edge

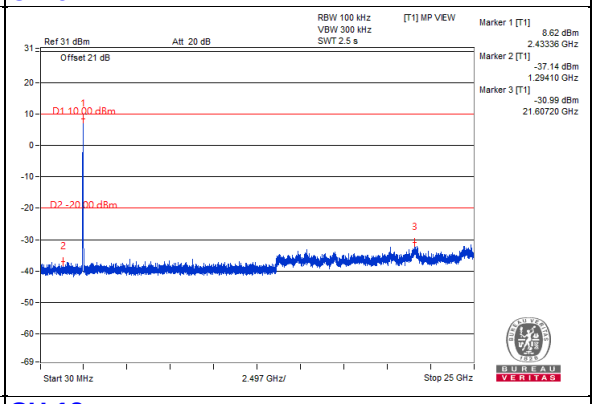


## Chain 1

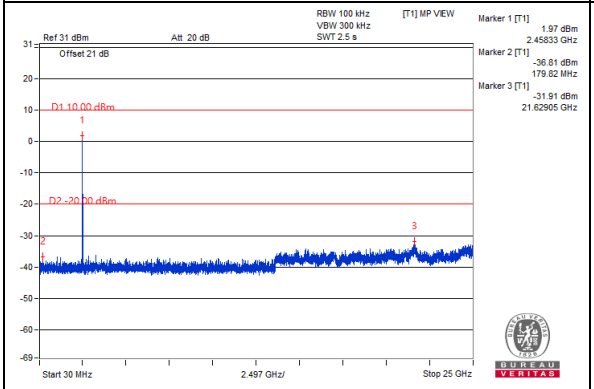
### CH 1



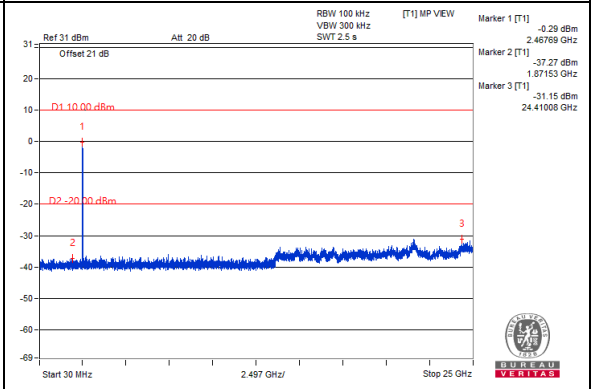

### CH 6



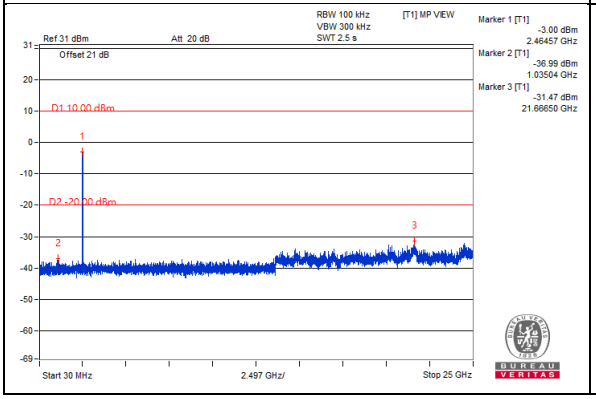

### CH 11



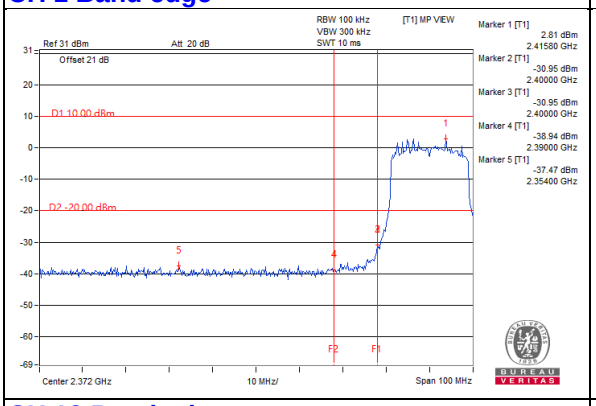

### CH 12



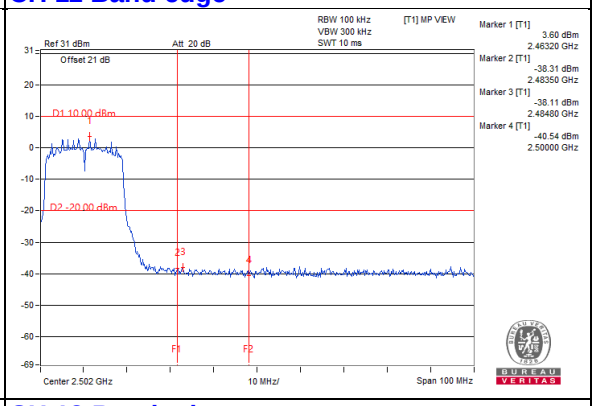

### CH 13



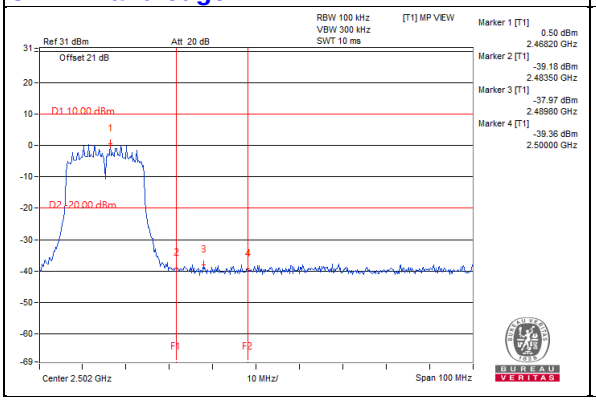
## CH 1 Band edge



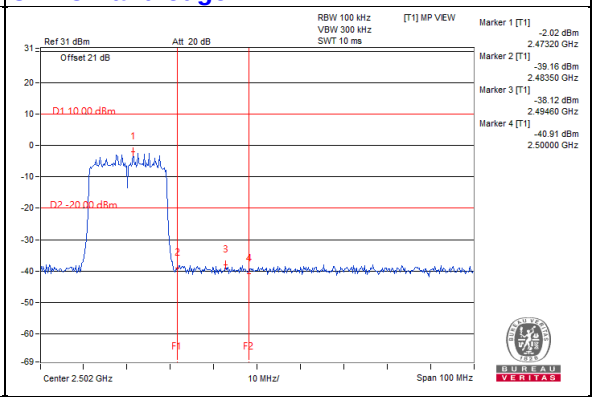

## CH 11 Band edge




## CH 12 Band edge

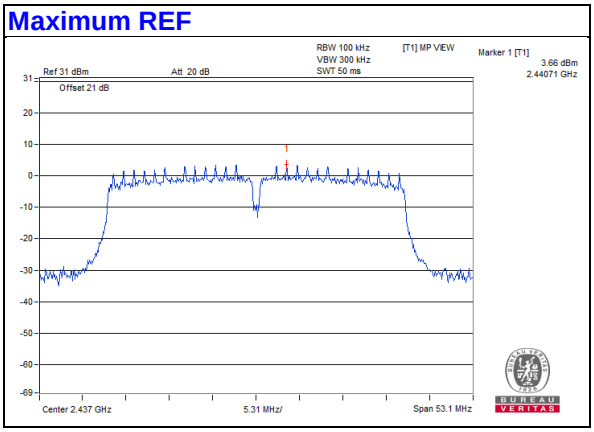



## CH 13 Band edge



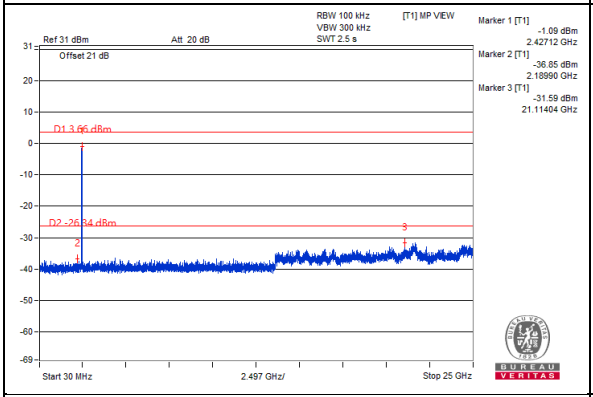
## VHT40

### Maximum REF

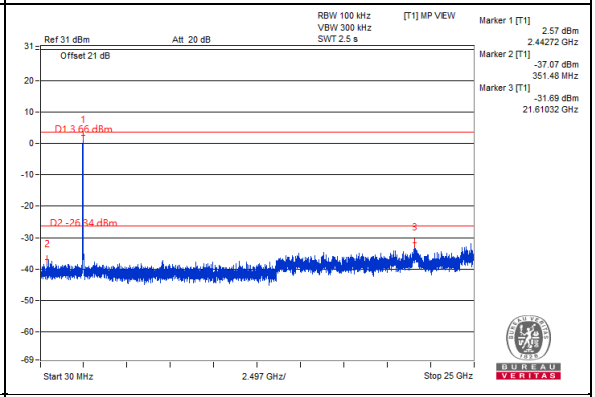



## Chain 0

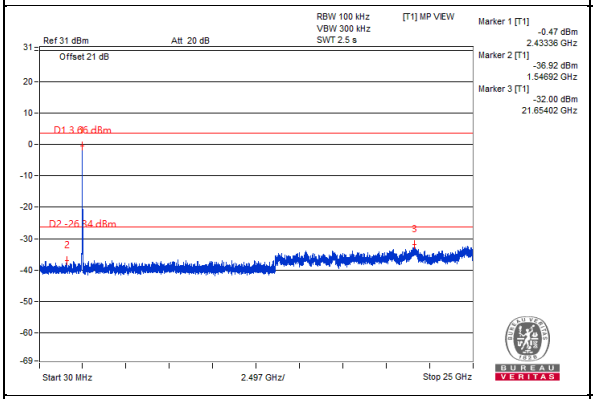
### CH 3



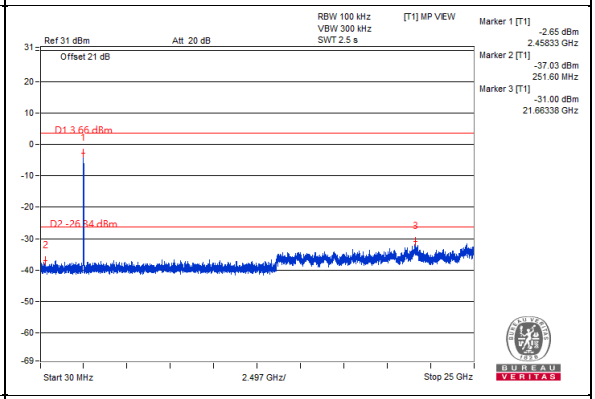

### CH 6



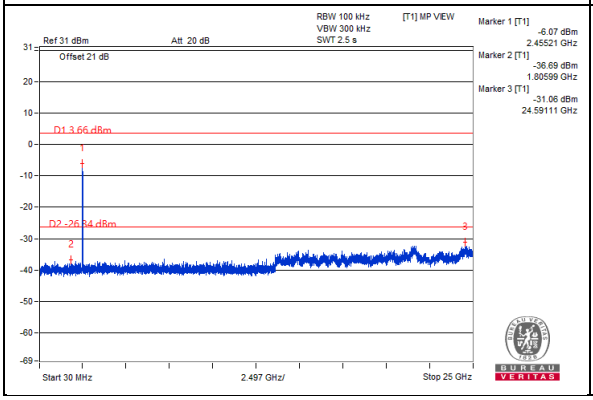

### CH 9



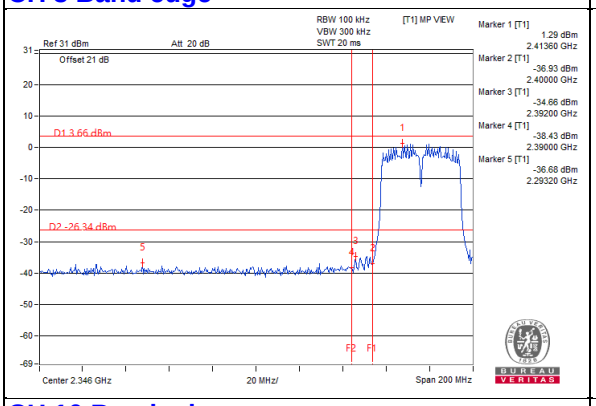

### CH 10



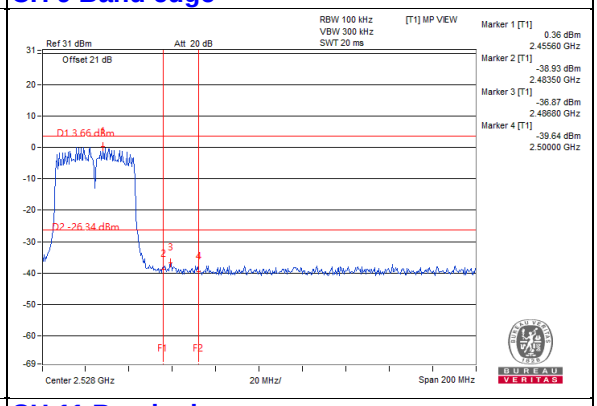

### CH 11



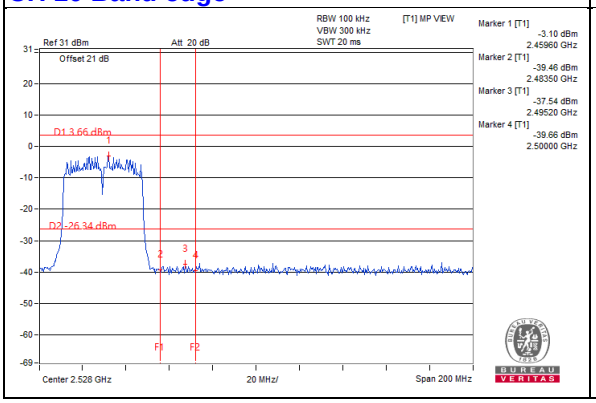
## CH 3 Band edge



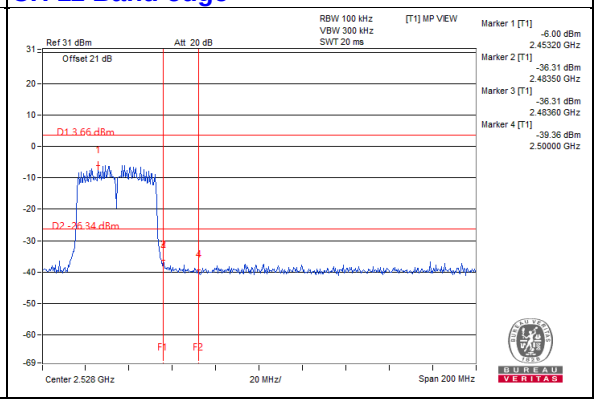

## CH 9 Band edge




## CH 10 Band edge

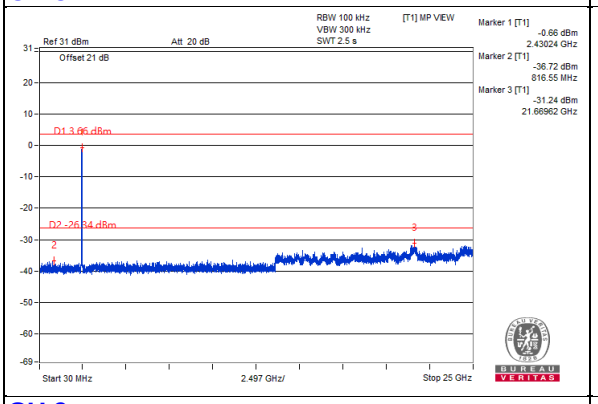



## CH 11 Band edge

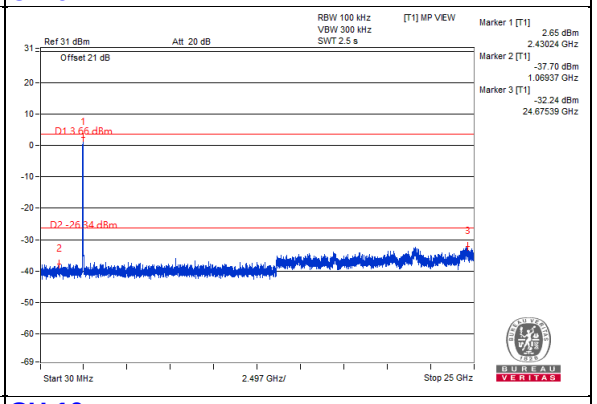


## Chain 1

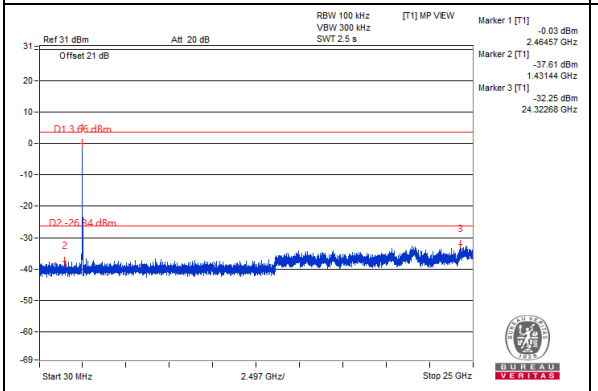
### CH 3



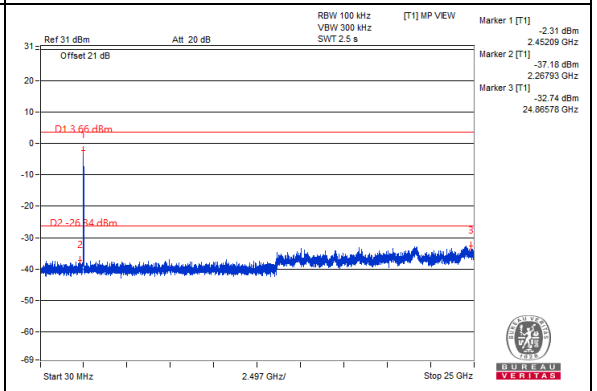

### CH 6



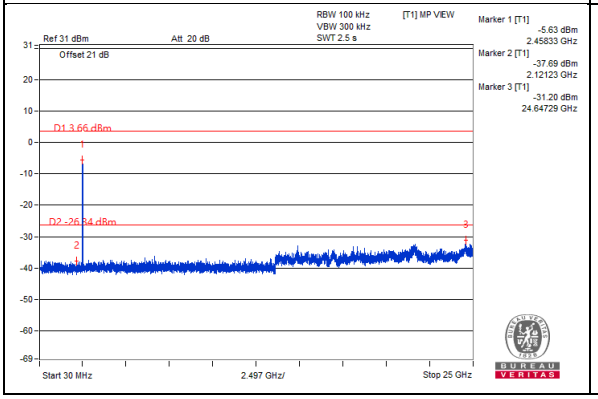

### CH 9



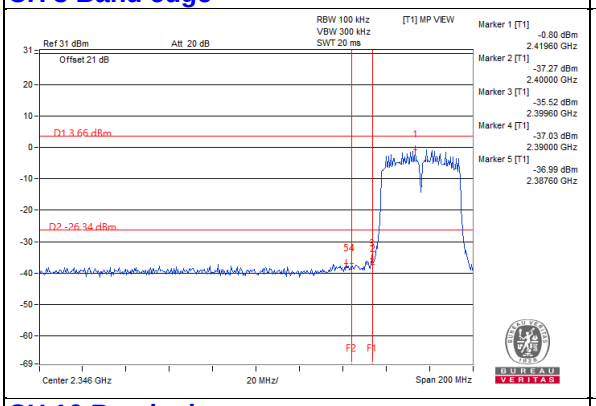

### CH 10



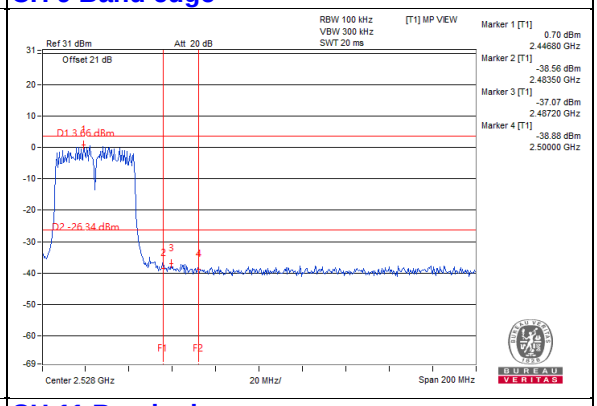

### CH 11



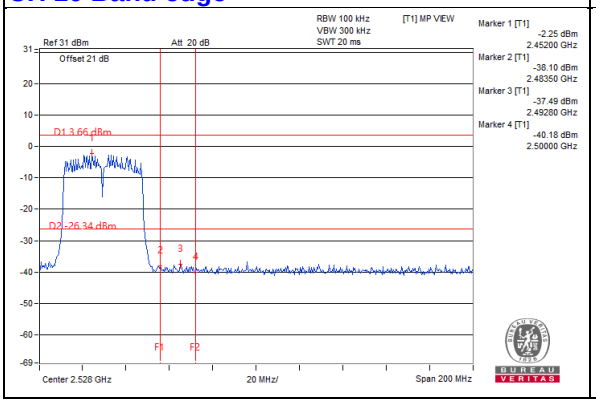
## CH 3 Band edge



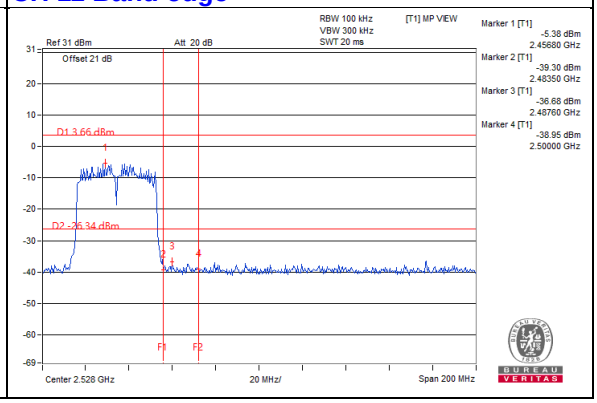

## CH 9 Band edge




## CH 10 Band edge



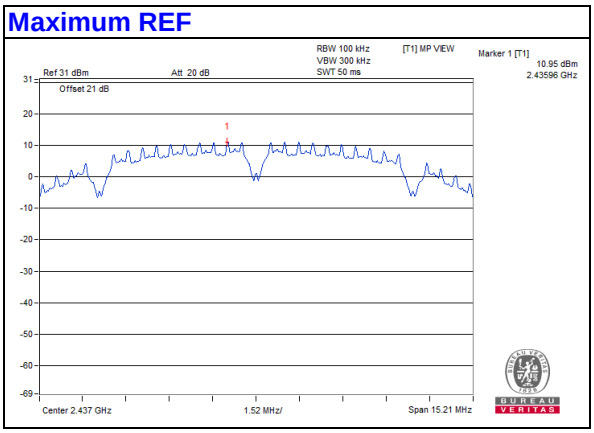

## CH 11 Band edge



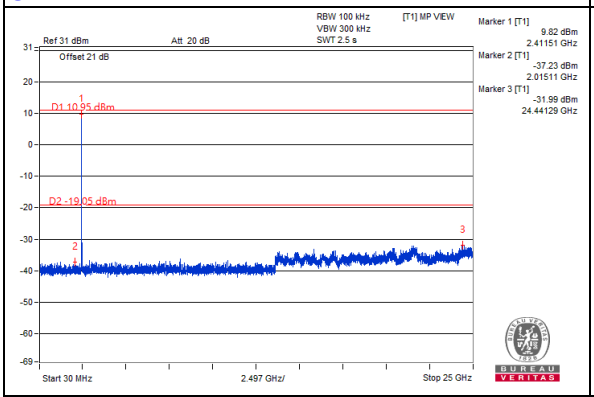
**For Mode 2**

**802.11b**

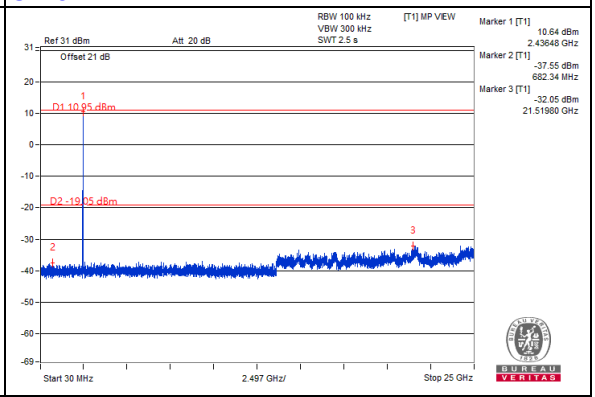
## Maximum REF



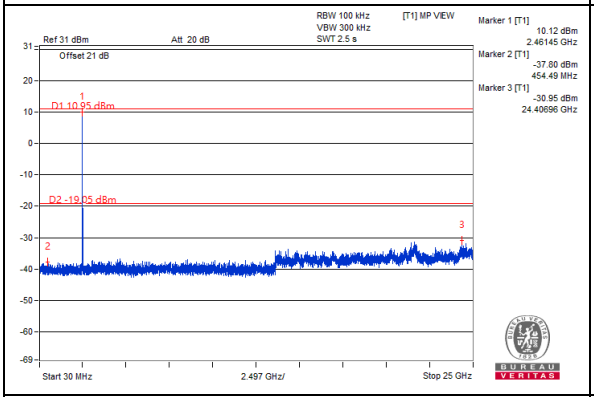

## CH 1



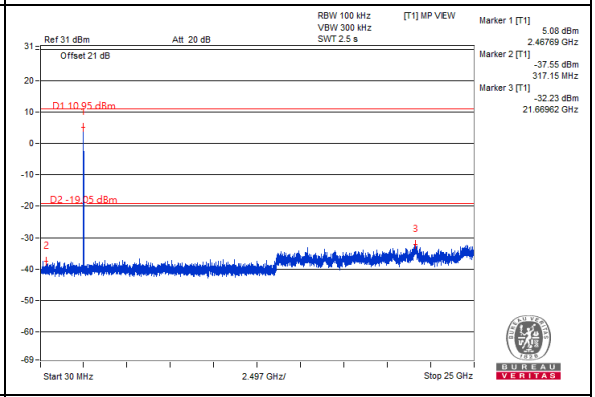

## CH 6



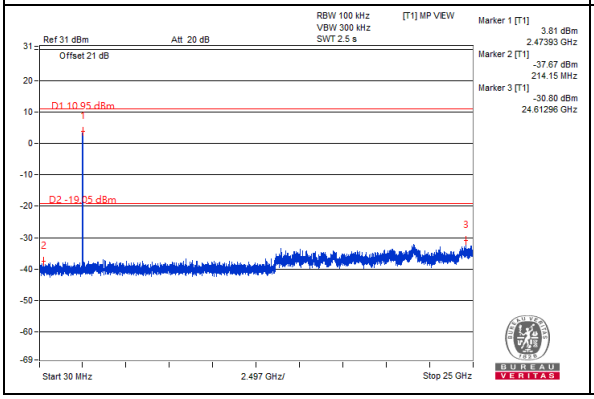

## CH 11



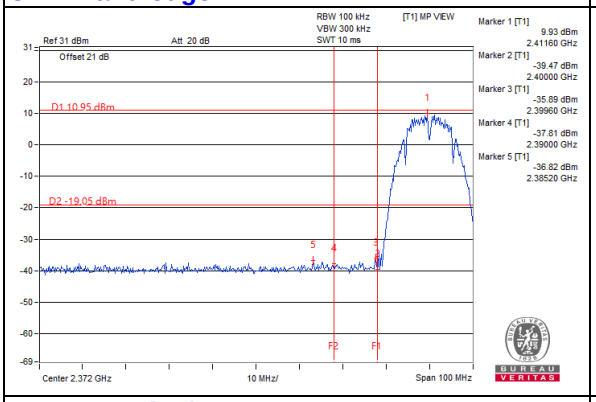

## CH 12



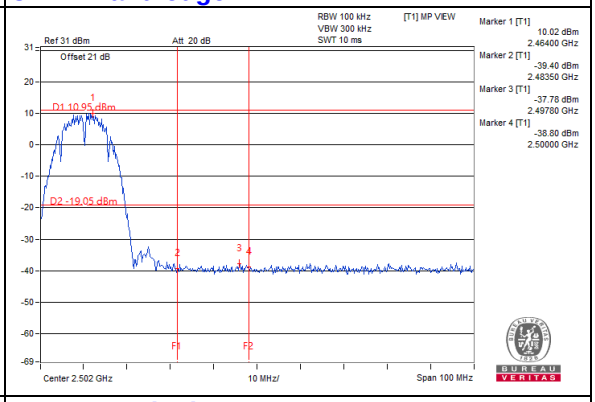

## CH 13



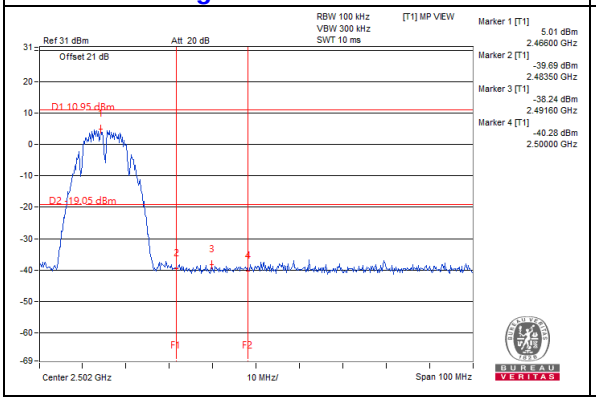
## CH 1 Band edge



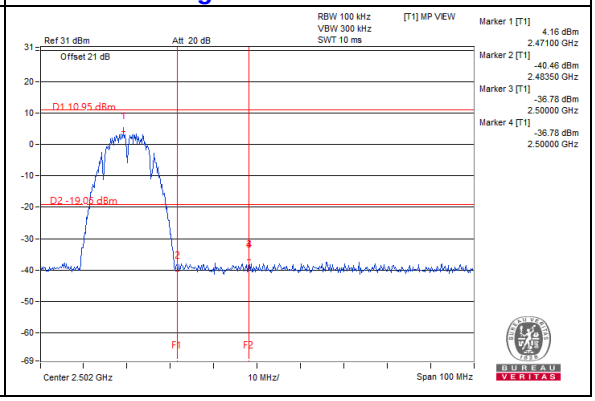

## CH 11 Band edge




## CH 12 Band edge

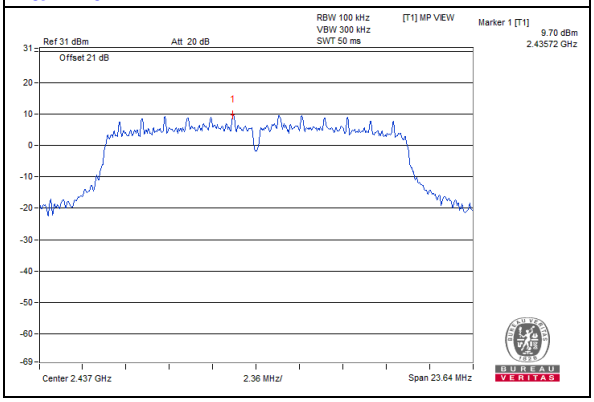



## CH 13 Band edge

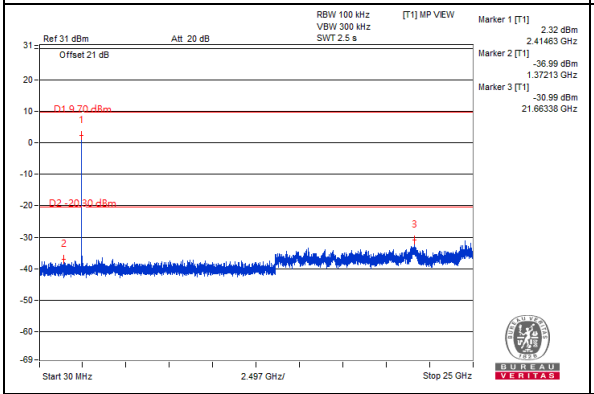


## 802.11g

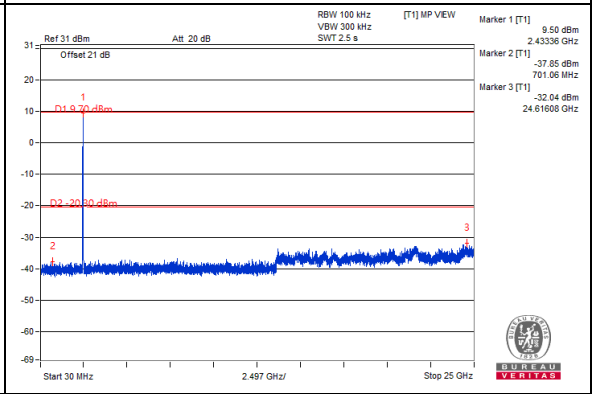
### Maximum REF



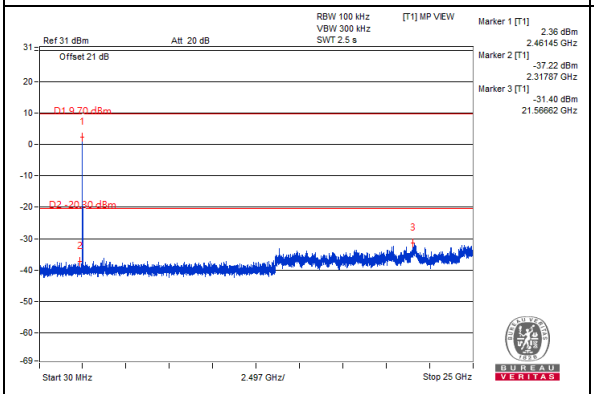

### CH 1



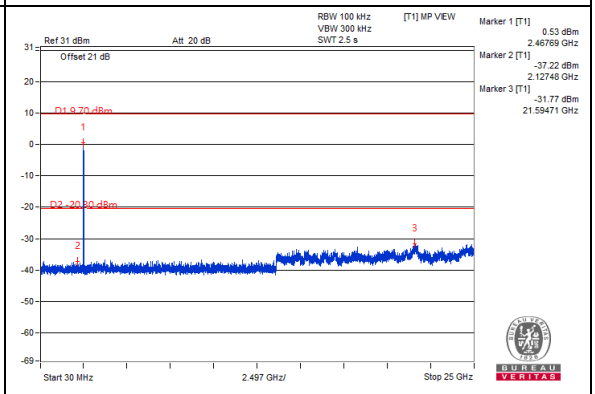

### CH 6



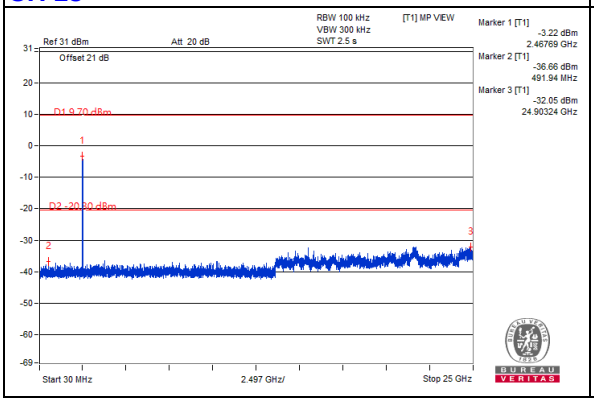

### CH 11



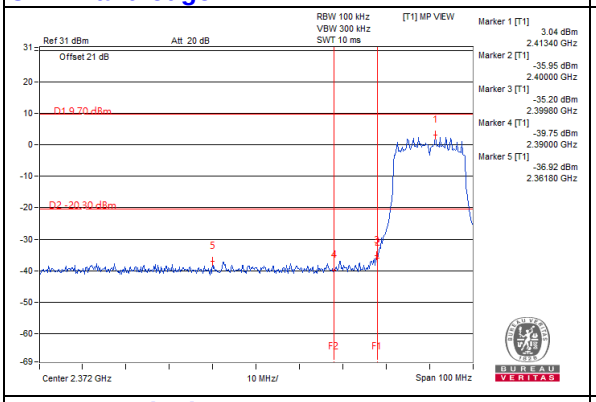

### CH 12



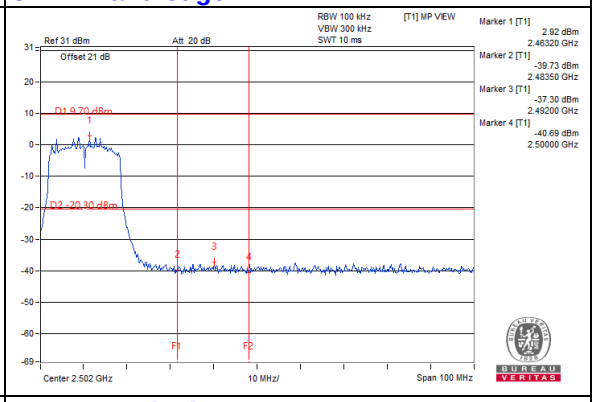

### CH 13



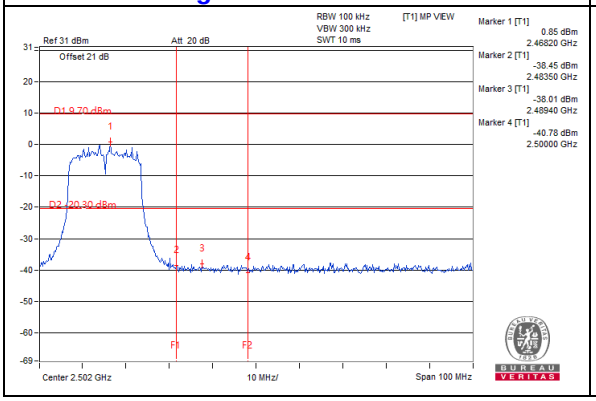
## CH 1 Band edge



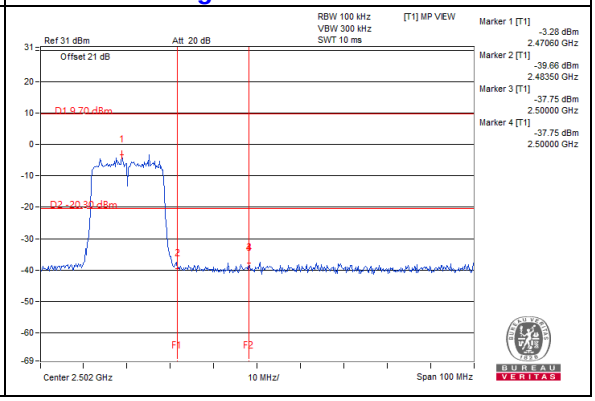

## CH 11 Band edge




## CH 12 Band edge

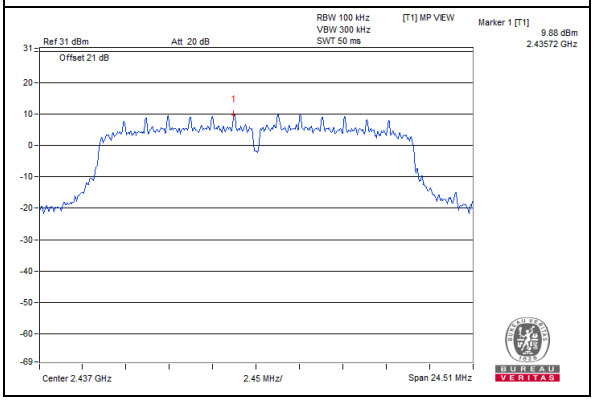



## CH 13 Band edge

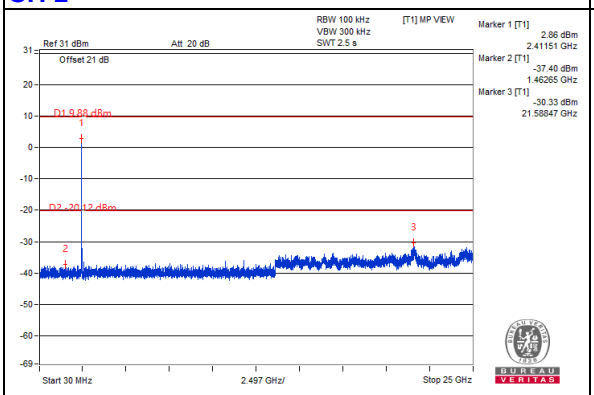


## VHT20

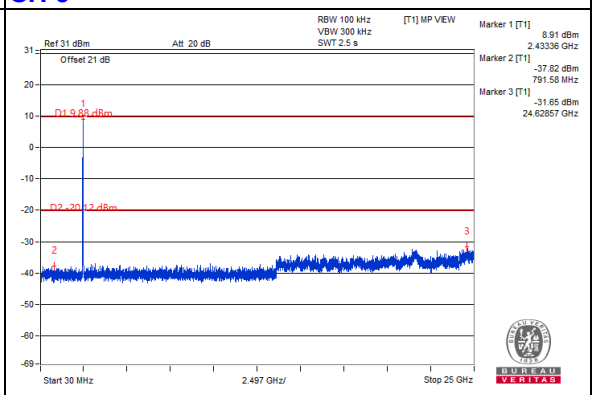
### Maximum REF



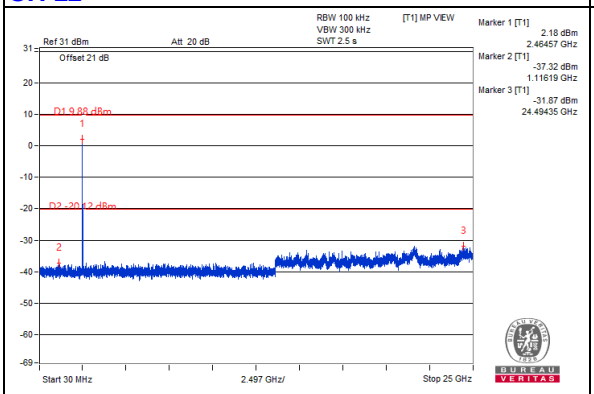

### CH 1



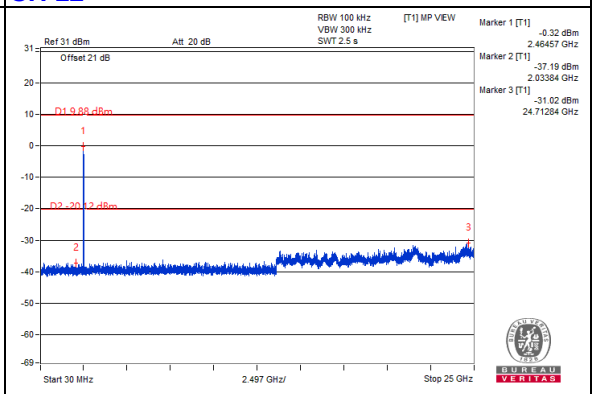

### CH 6



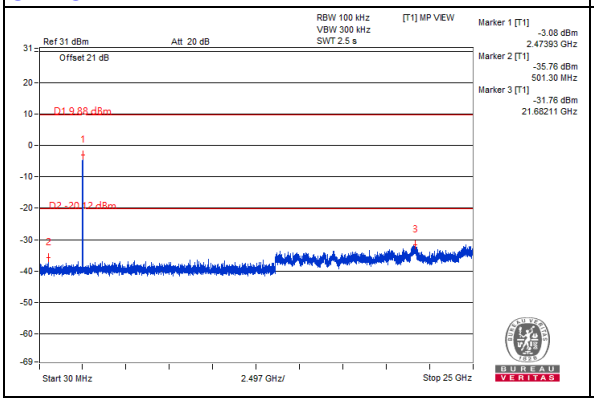

### CH 11



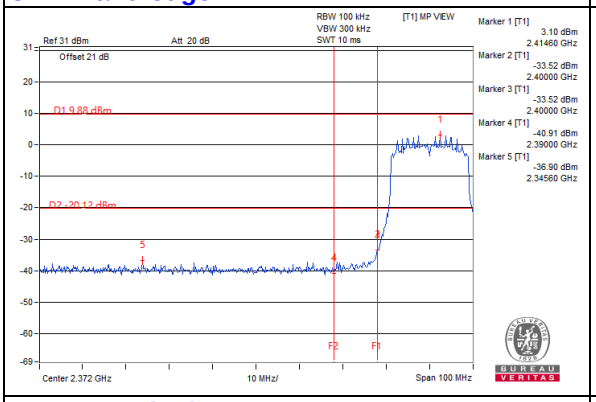

### CH 12



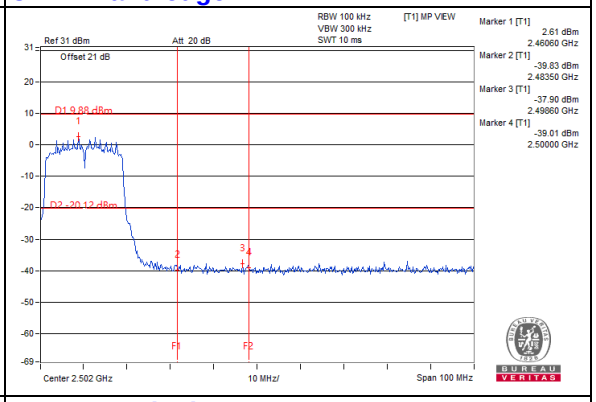

### CH 13



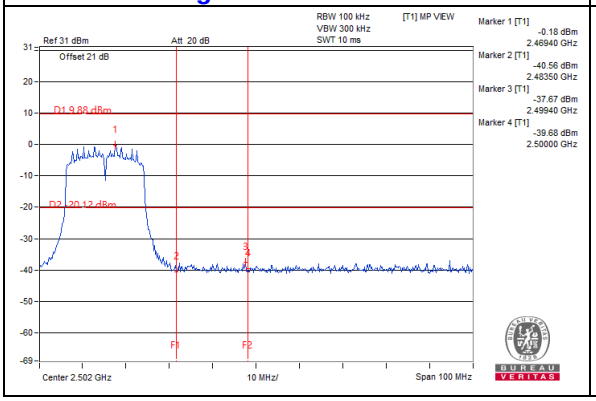
## CH 1 Band edge



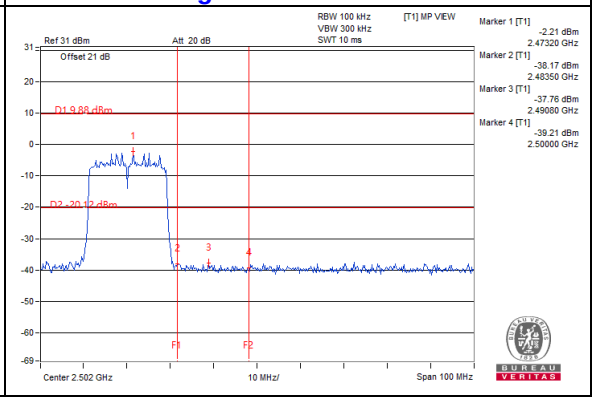

## CH 11 Band edge




## CH 12 Band edge

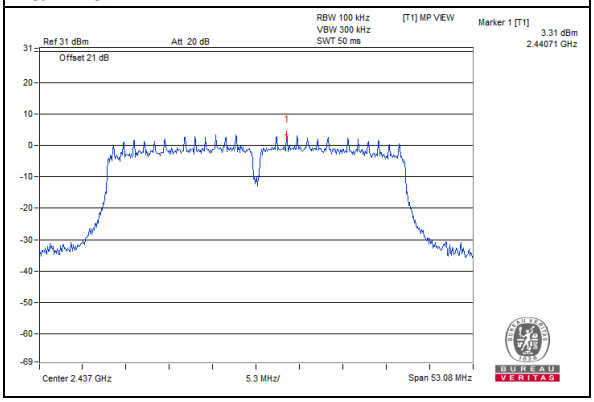



## CH 13 Band edge

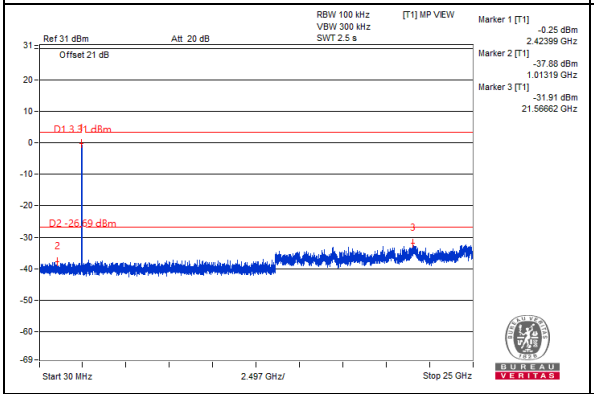


## VHT40

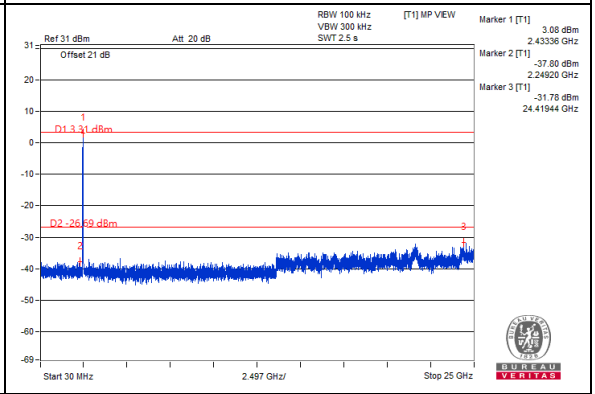
### Maximum REF



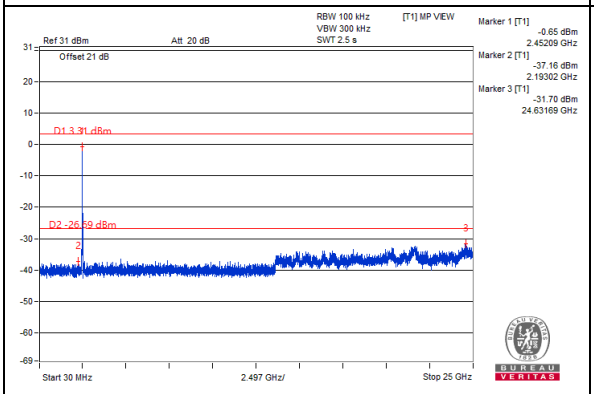

### CH 3



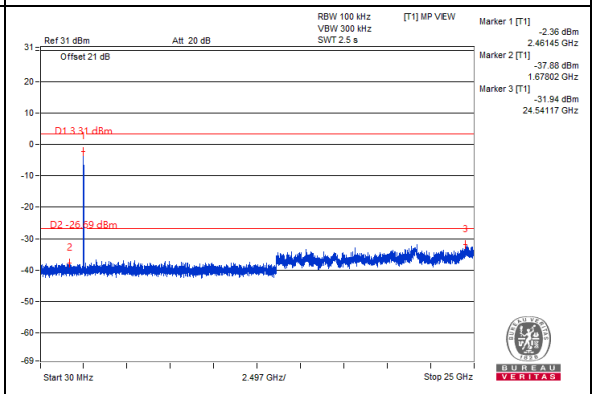

### CH 6



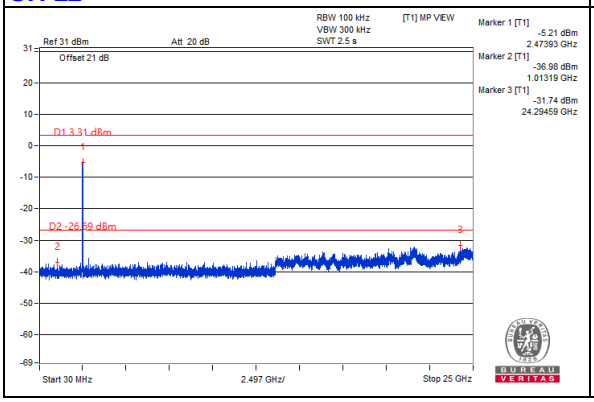

### CH 9



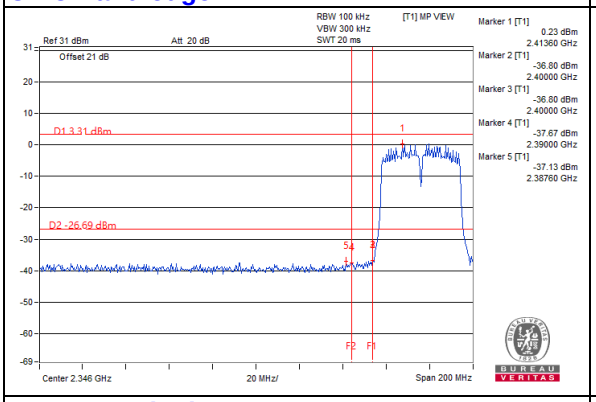

### CH 10



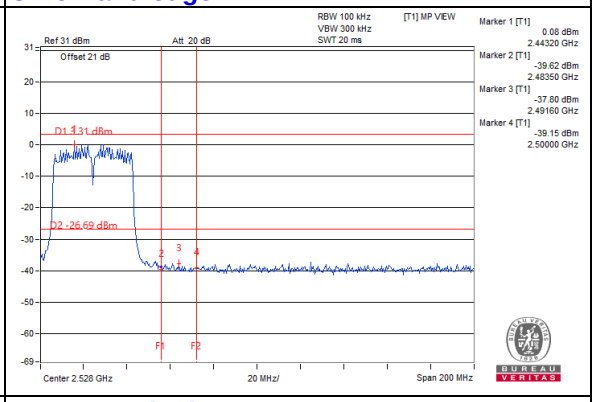

### CH 11



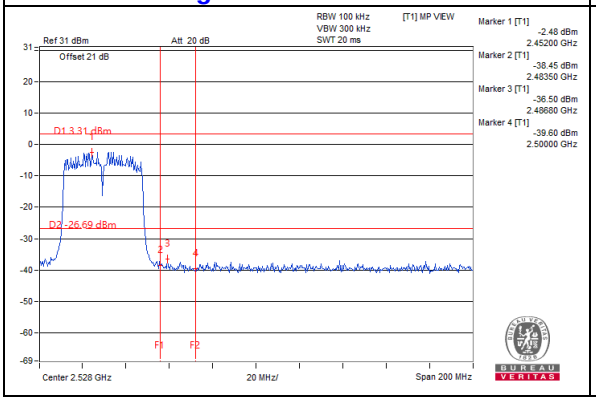
## CH 3 Band edge



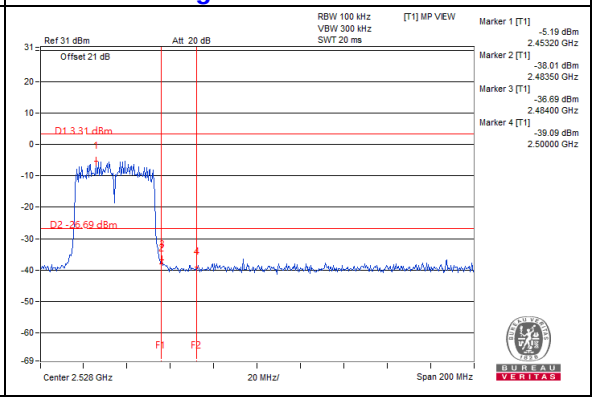

## CH 9 Band edge




## CH 10 Band edge




## CH 11 Band edge



## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

## Annex A - Band-Edge Measurement

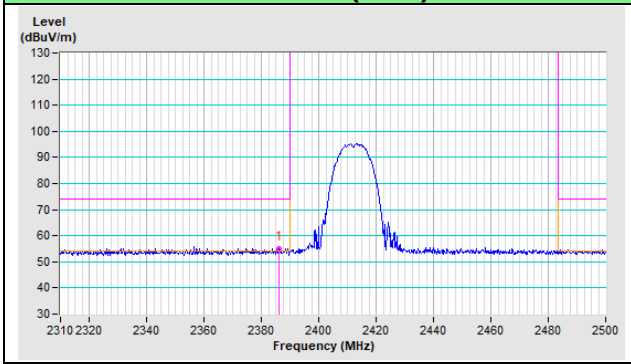
## Annex A.1 - Test Results (Mode 1)

### Dipole Antenna

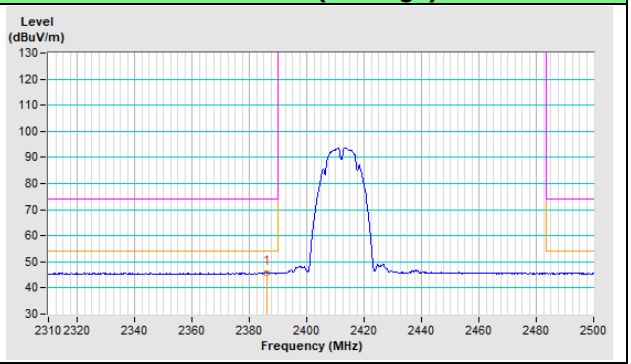
### 802.11b

**Channel 1**

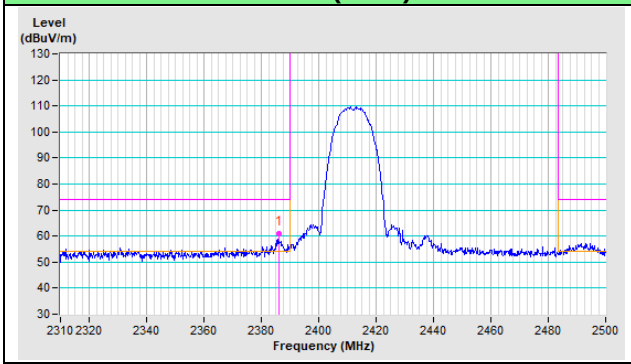
**Horizontal (Peak)**



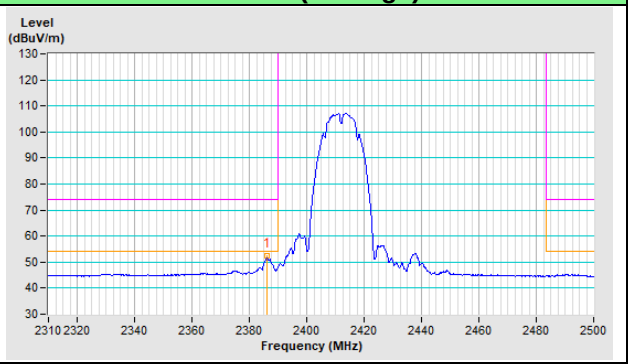

**Horizontal (Average)**




**Vertical (Peak)**

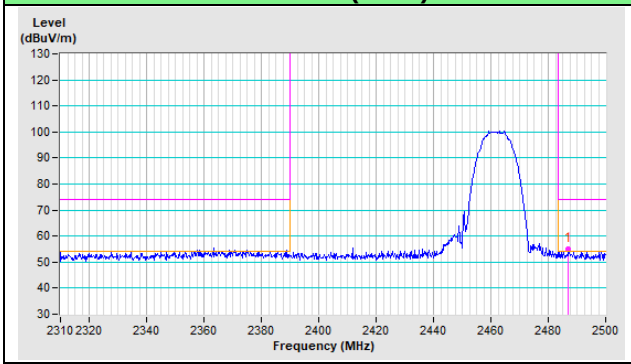



**Vertical (Average)**

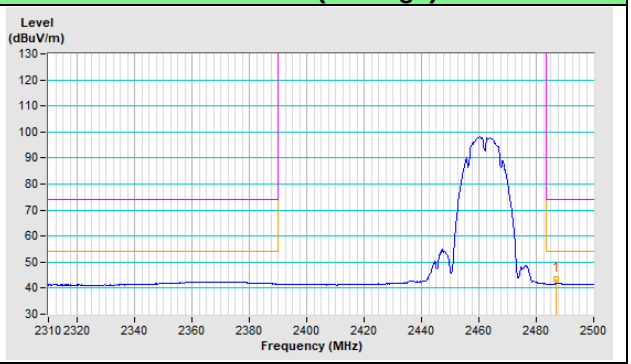


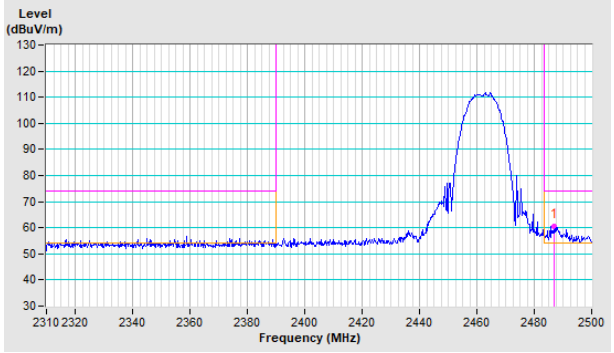
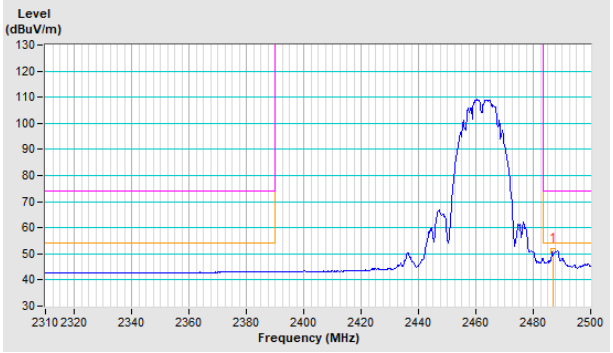

**Channel 11**

**Horizontal (Peak)**



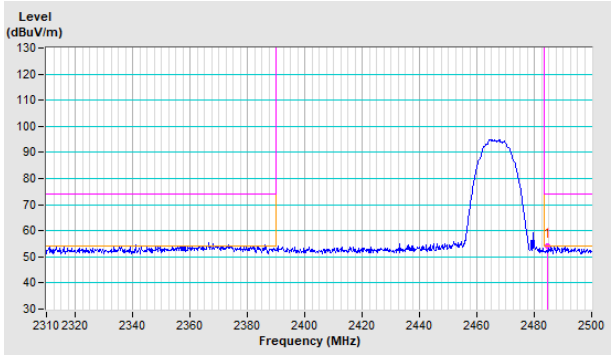

**Horizontal (Average)**



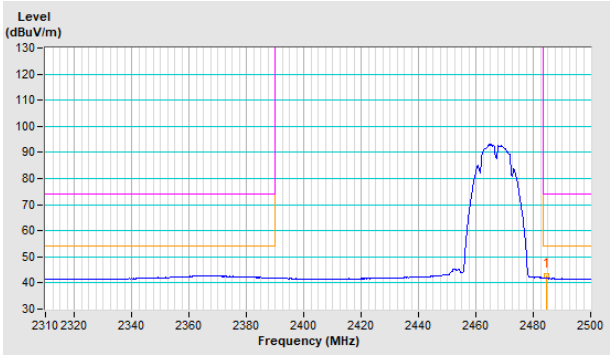
| Vertical (Peak) | Vertical (Average) |
| --- | --- |
|  |  |

## Channel 12

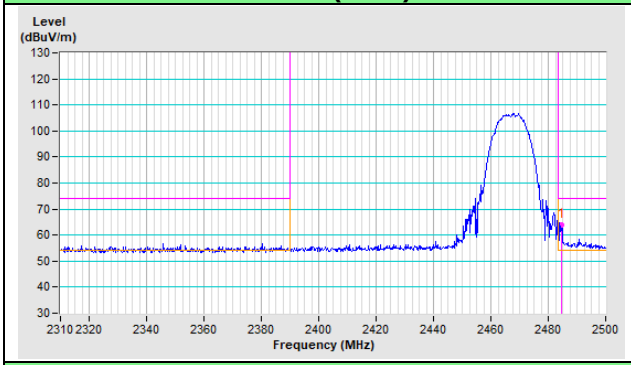
### Horizontal (Peak)



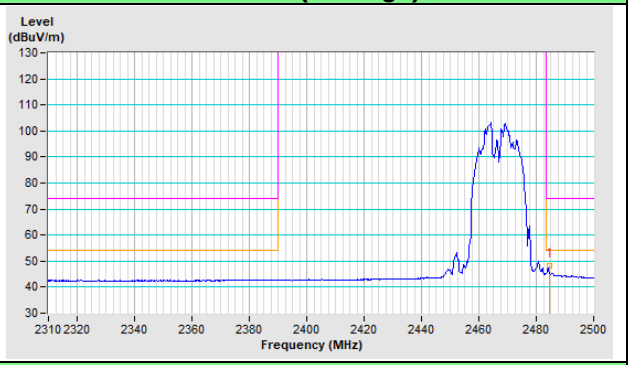

### Horizontal (Average)




### Vertical (Peak)

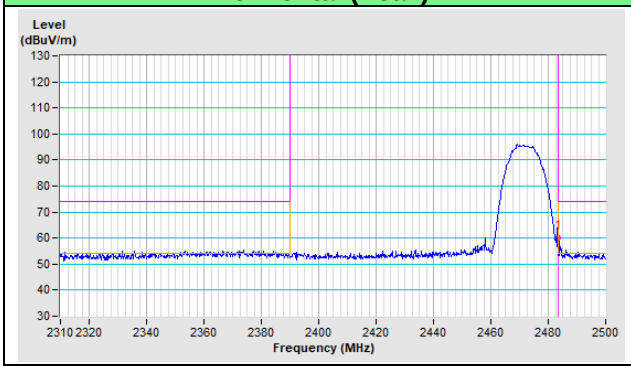



### Vertical (Average)

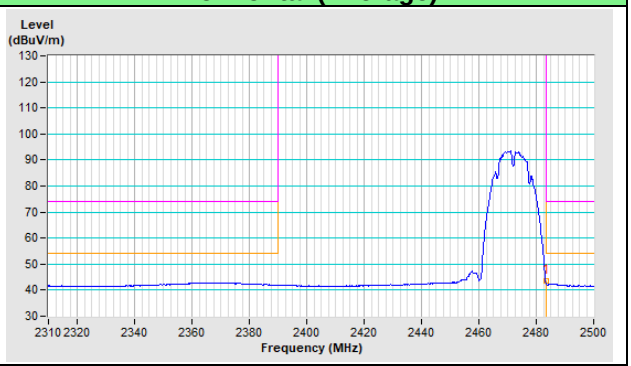



## Channel 13

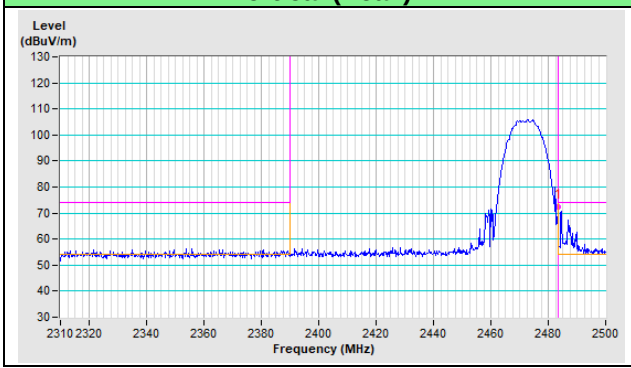
### Horizontal (Peak)



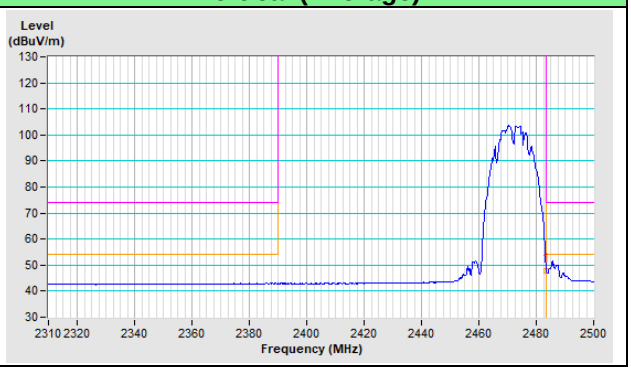

### Horizontal (Average)




### Vertical (Peak)



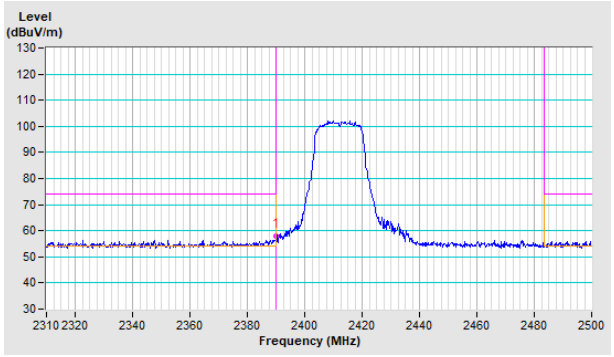

### Vertical (Average)



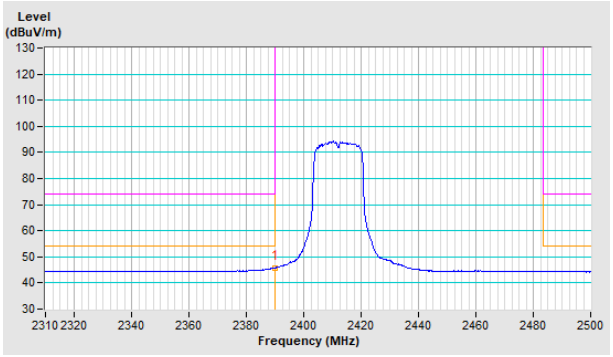
## 802.11g

### Channel 1

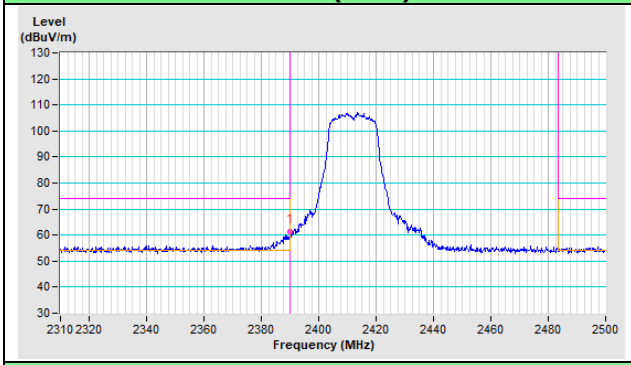
#### Horizontal (Peak)



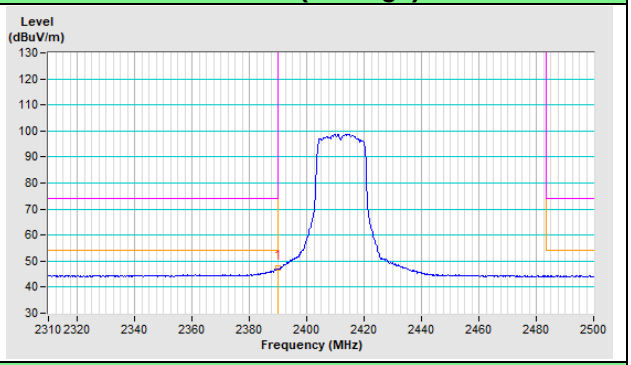

#### Horizontal (Average)




#### Vertical (Peak)

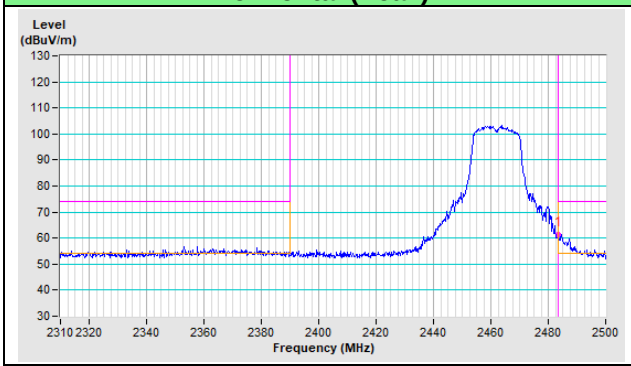



#### Vertical (Average)

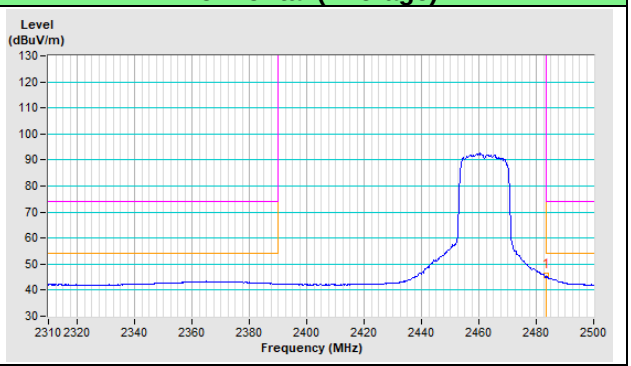



### Channel 11

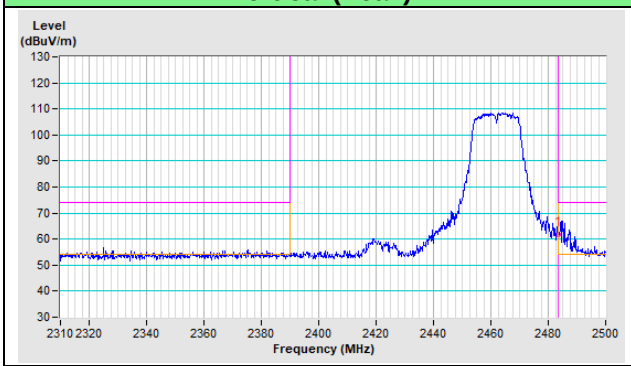
#### Horizontal (Peak)



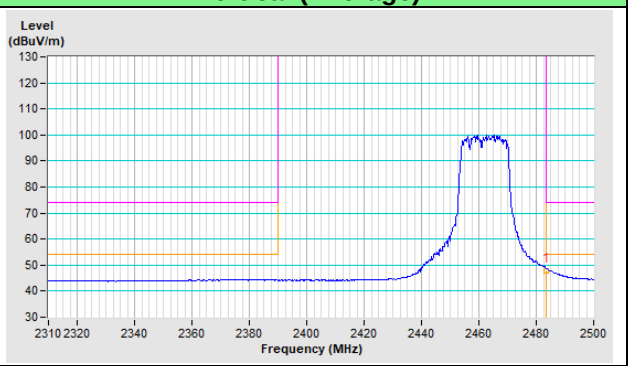

#### Horizontal (Average)




#### Vertical (Peak)

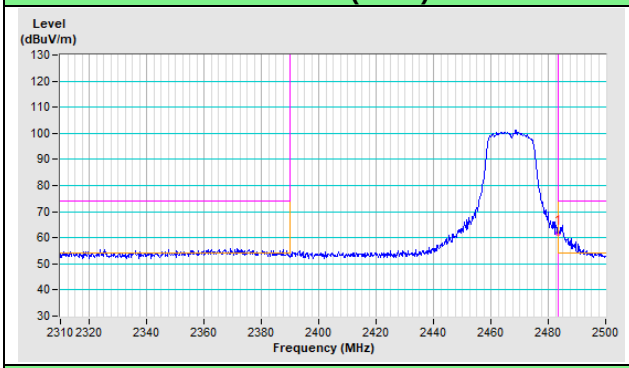



#### Vertical (Average)

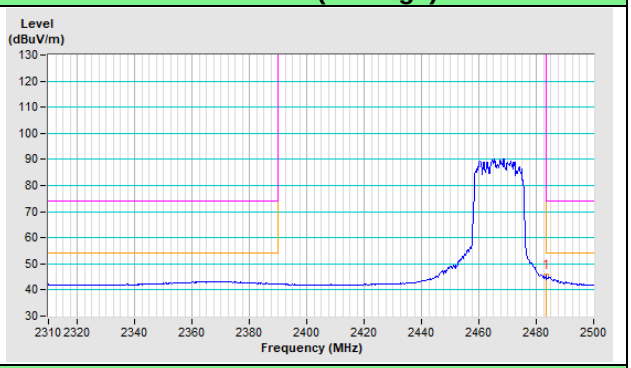


## Channel 12

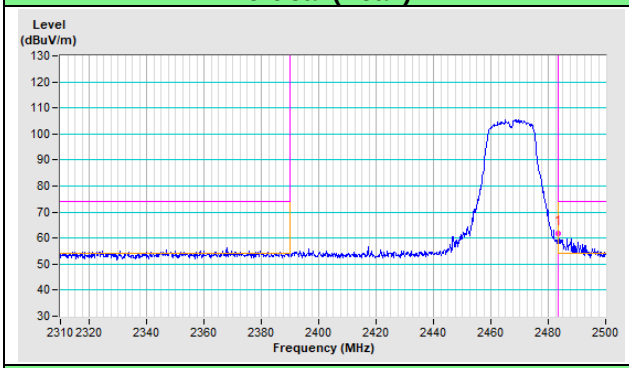
### Horizontal (Peak)



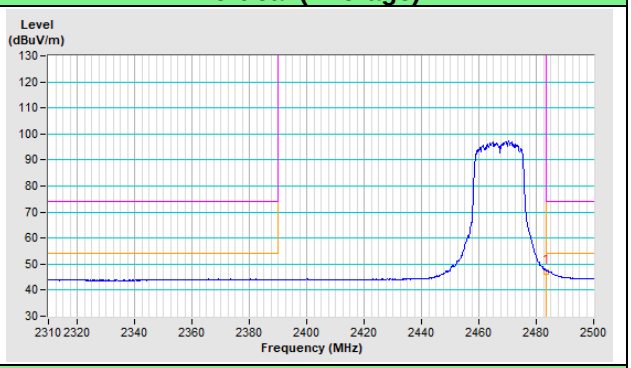

### Horizontal (Average)




### Vertical (Peak)

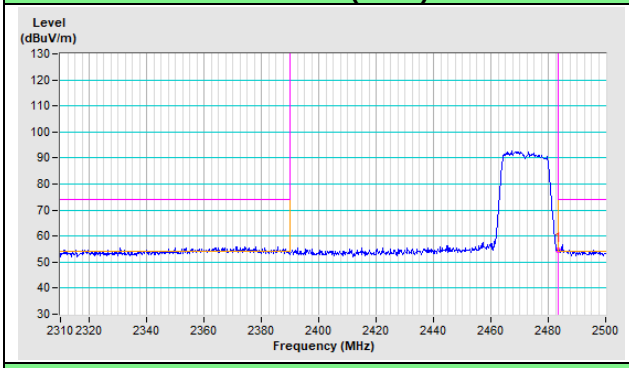



### Vertical (Average)

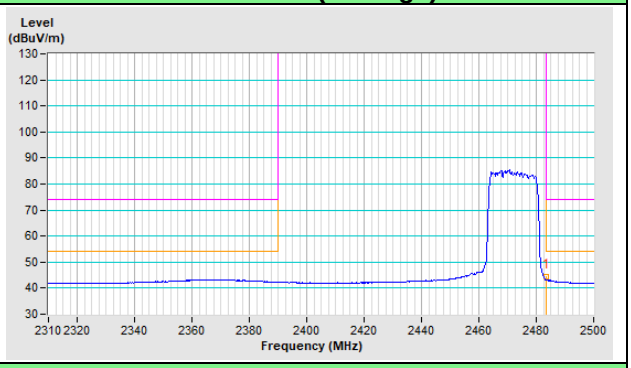



## Channel 13

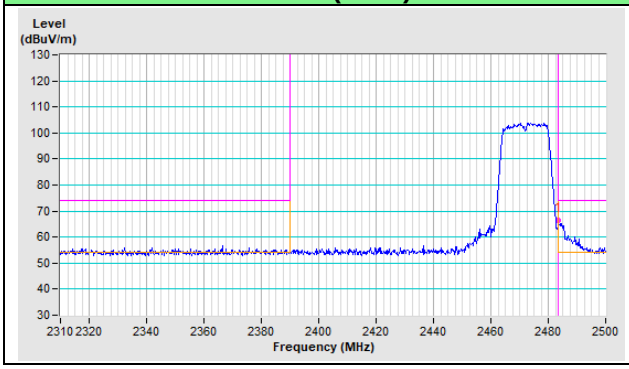
### Horizontal (Peak)



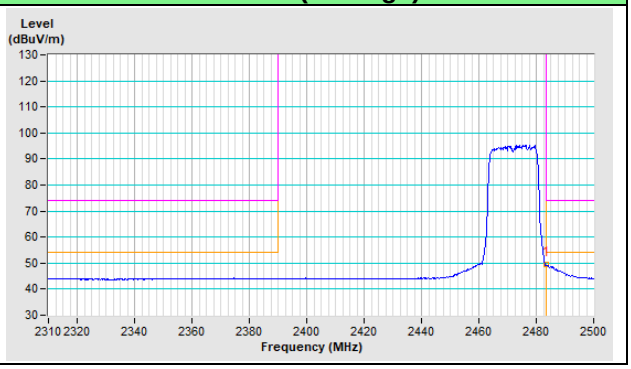

### Horizontal (Average)




### Vertical (Peak)



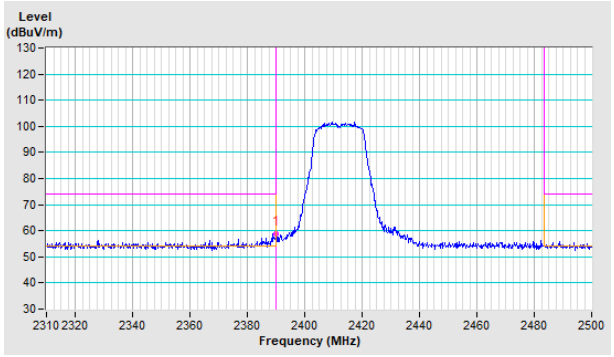

### Vertical (Average)



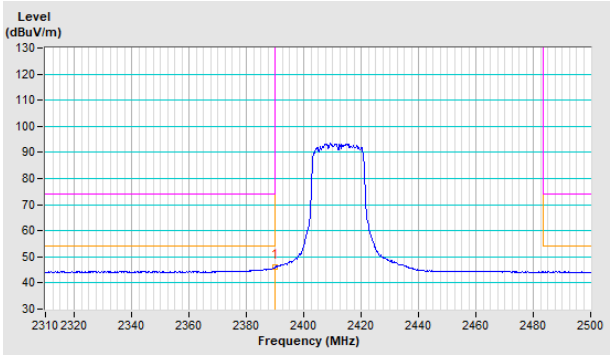
## VHT20

### Channel 1

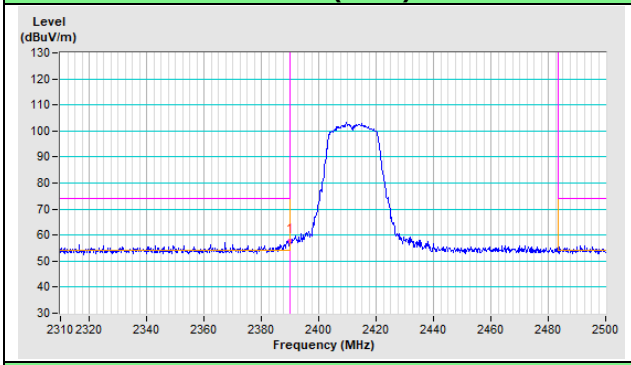
#### Horizontal (Peak)



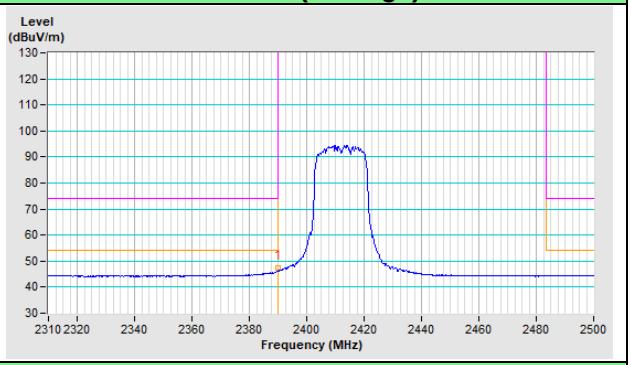

#### Horizontal (Average)




#### Vertical (Peak)

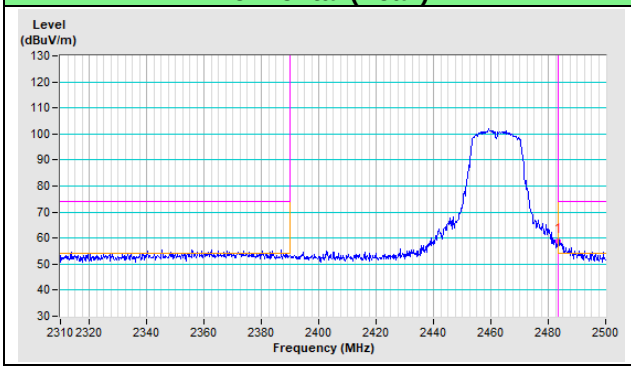



#### Vertical (Average)

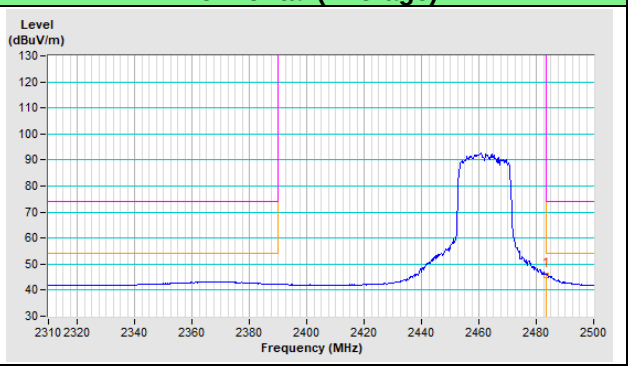



### Channel 11

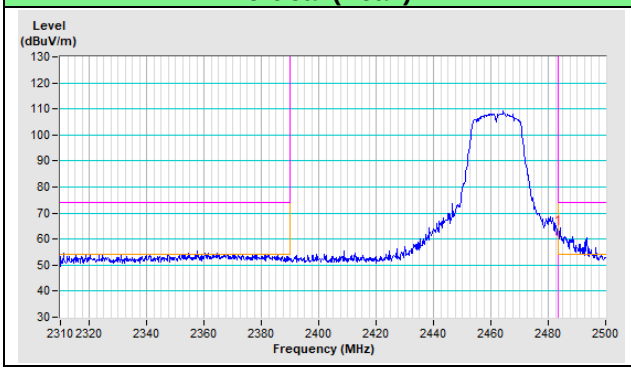
#### Horizontal (Peak)



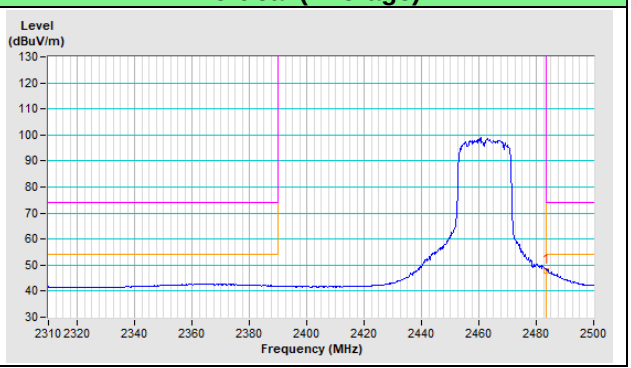

#### Horizontal (Average)




#### Vertical (Peak)

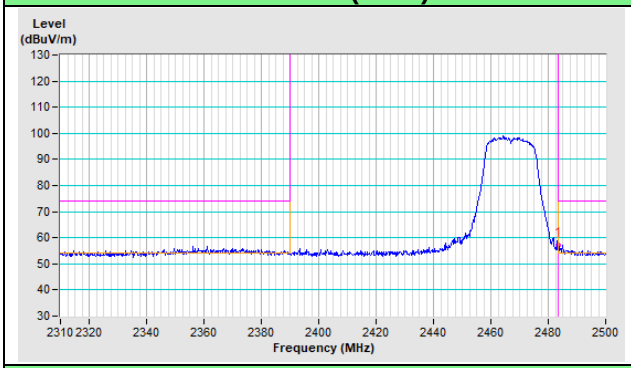



#### Vertical (Average)

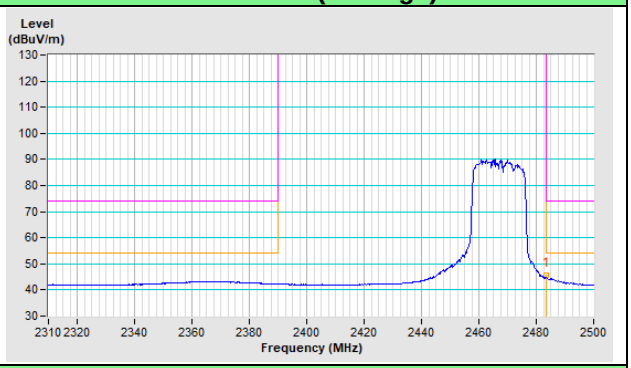


## Channel 12

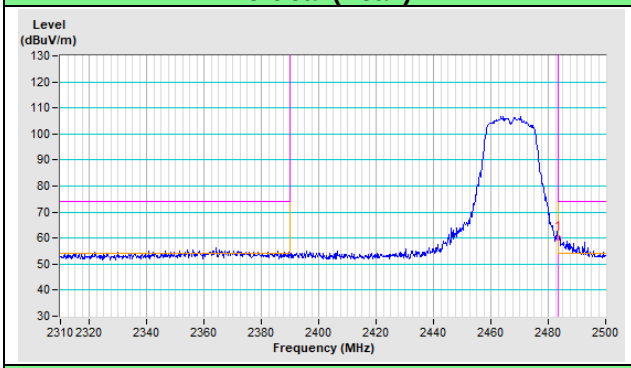
### Horizontal (Peak)



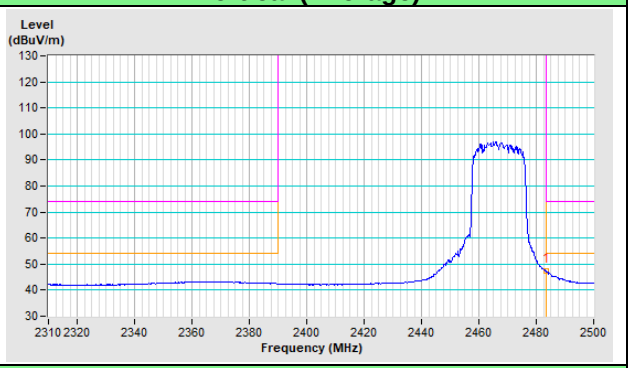

### Horizontal (Average)




### Vertical (Peak)

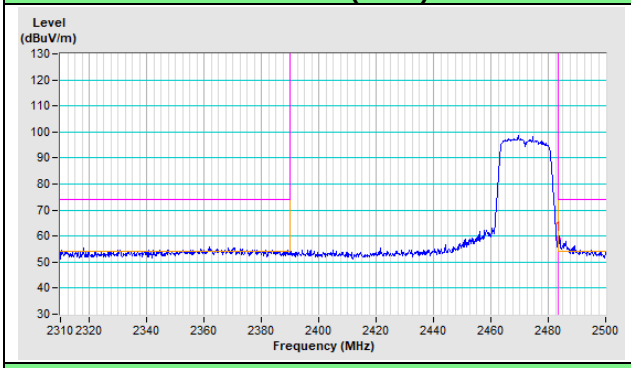



### Vertical (Average)

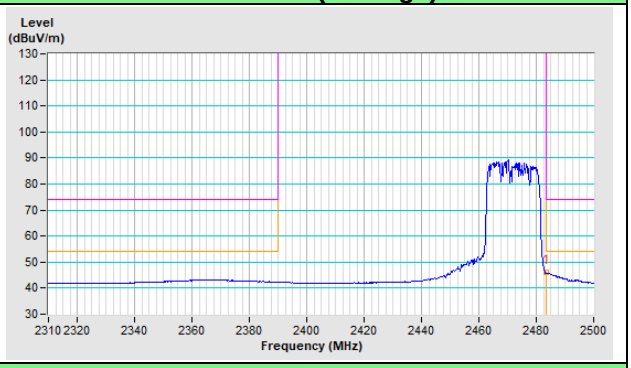



## Channel 13

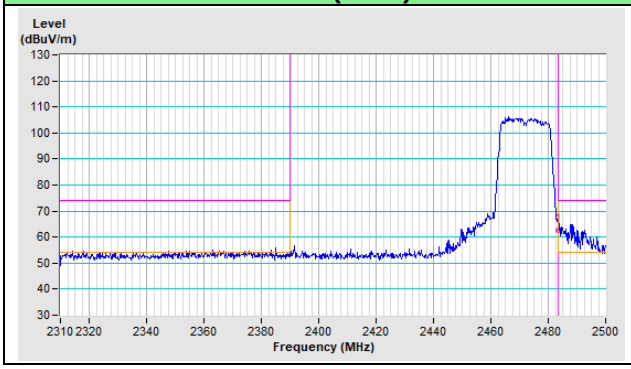
### Horizontal (Peak)



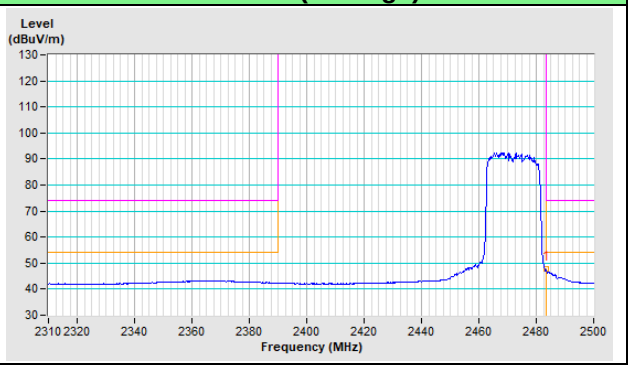

### Horizontal (Average)




### Vertical (Peak)



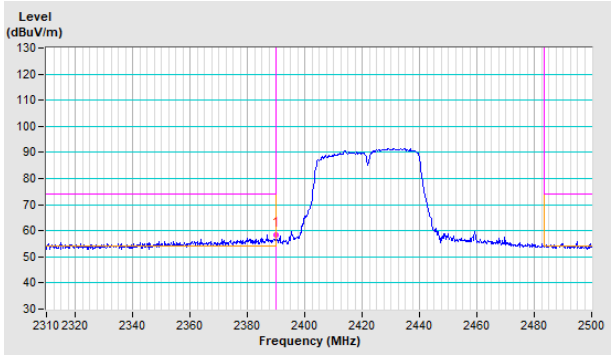

### Vertical (Average)



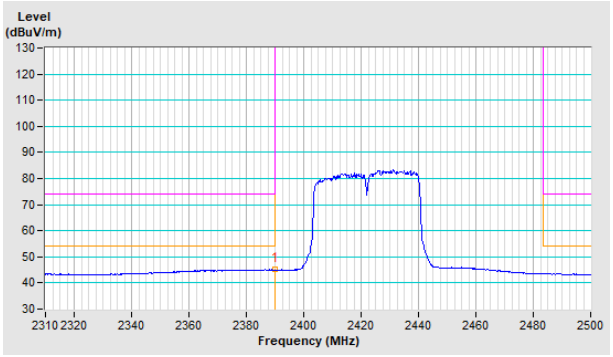
## VHT40

### Channel 3

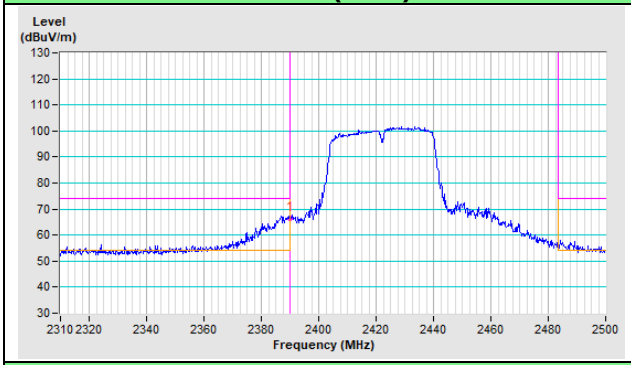
#### Horizontal (Peak)



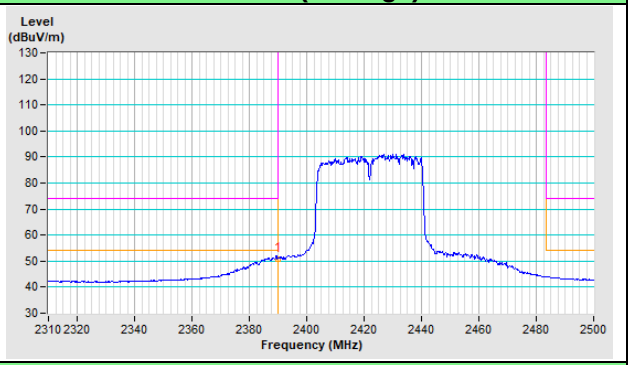

#### Horizontal (Average)




#### Vertical (Peak)

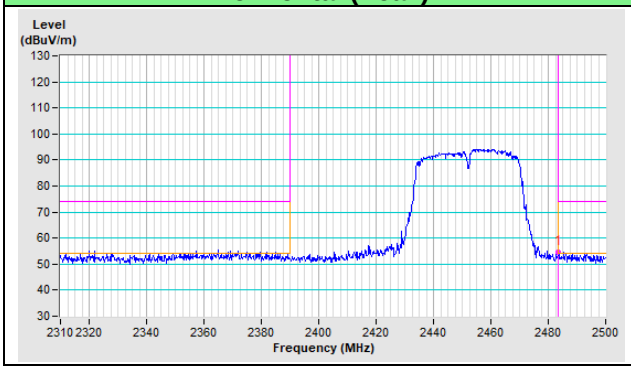



#### Vertical (Average)

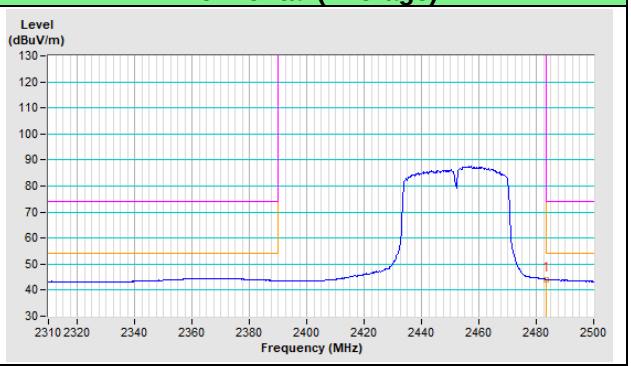



### Channel 9

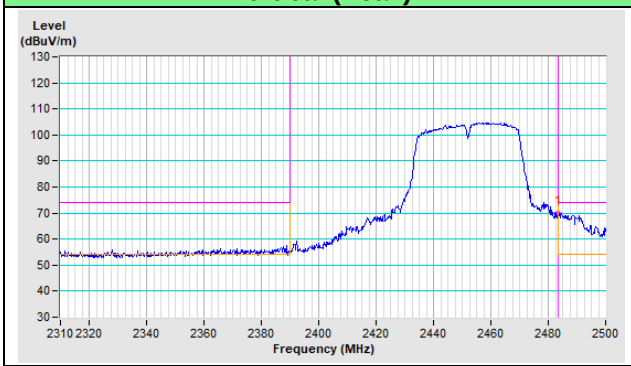
#### Horizontal (Peak)



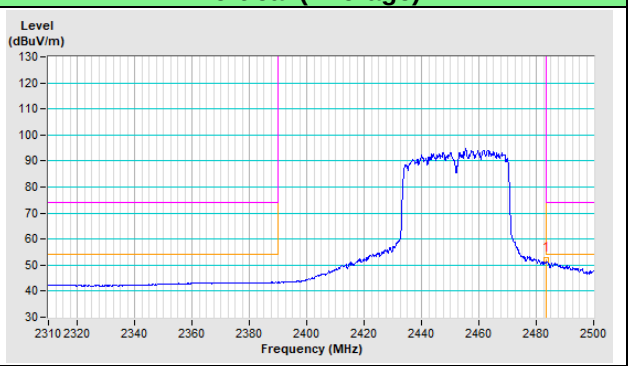

#### Horizontal (Average)




#### Vertical (Peak)

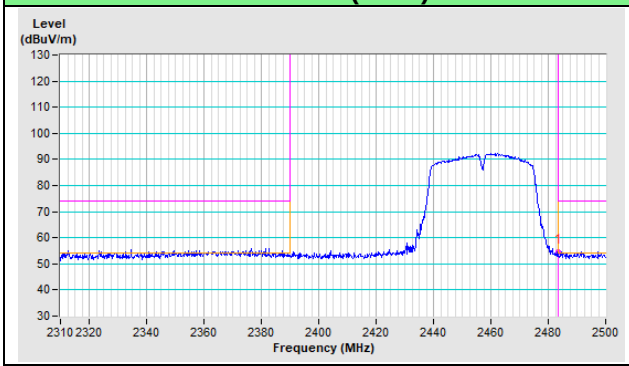



#### Vertical (Average)

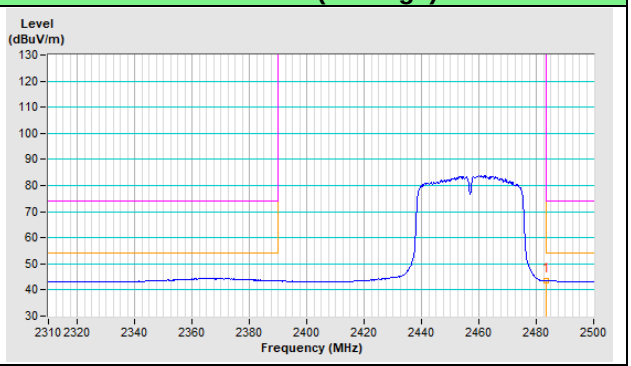


## Channel 10

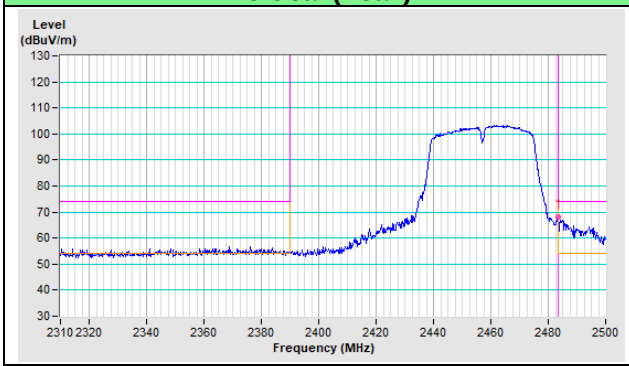
### Horizontal (Peak)



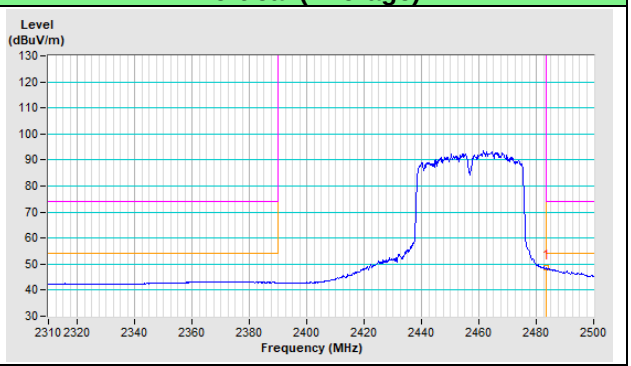

### Horizontal (Average)




### Vertical (Peak)

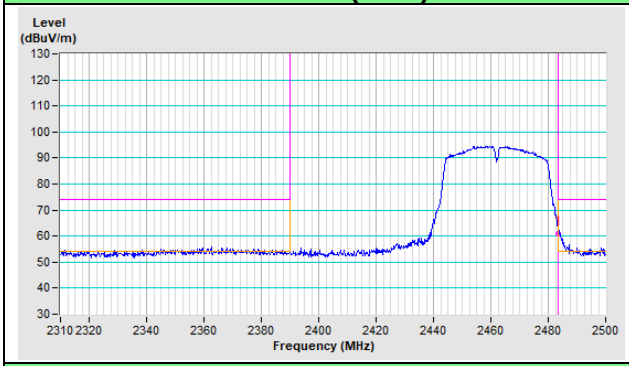



### Vertical (Average)

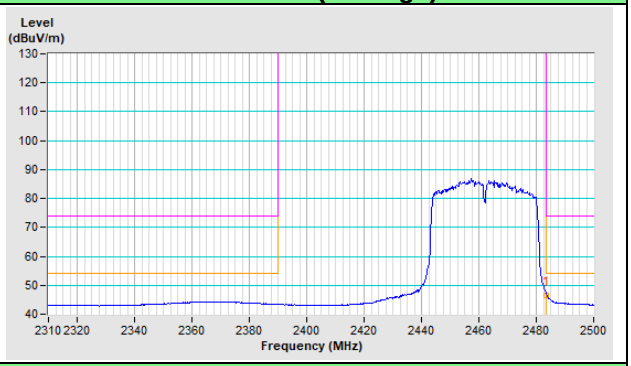



## Channel 11

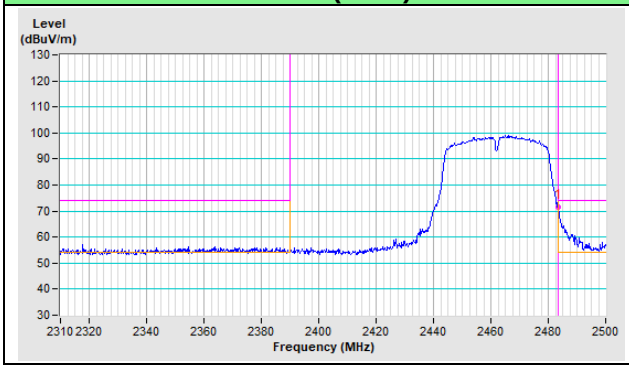
### Horizontal (Peak)



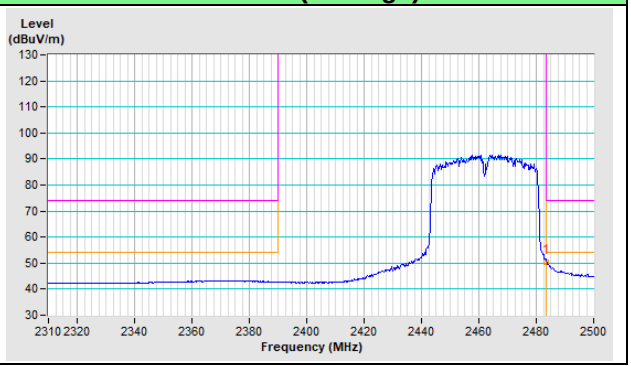

### Horizontal (Average)




### Vertical (Peak)

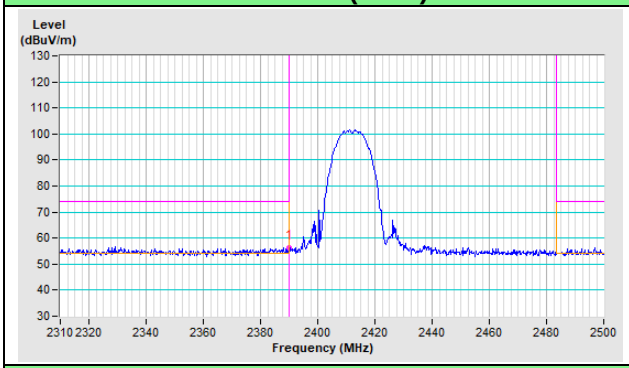
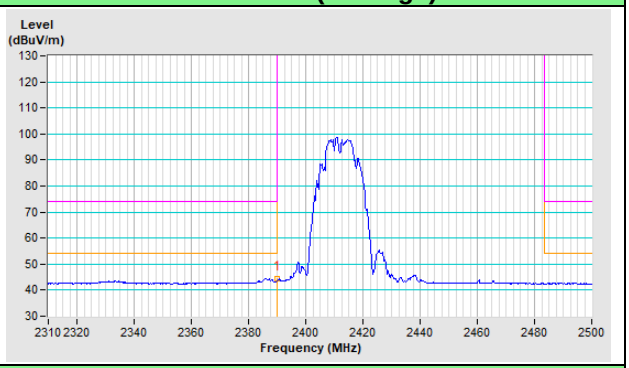
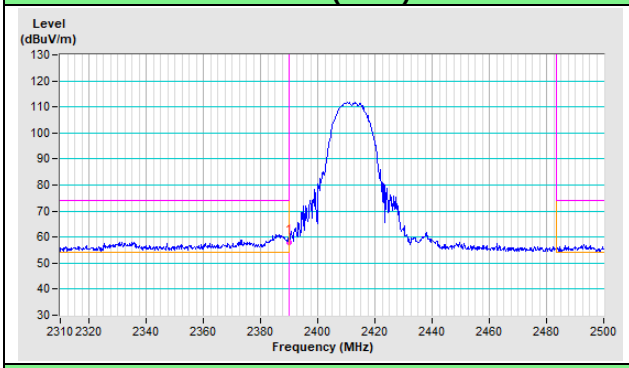
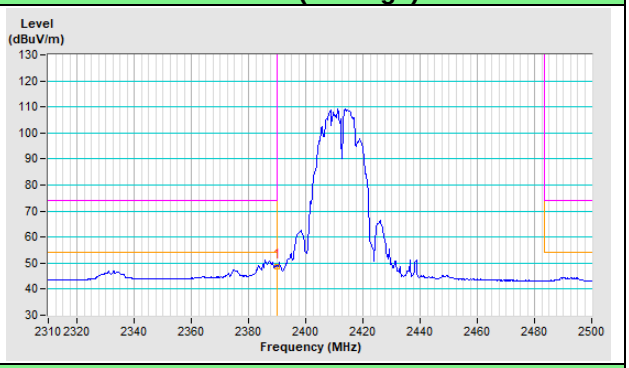
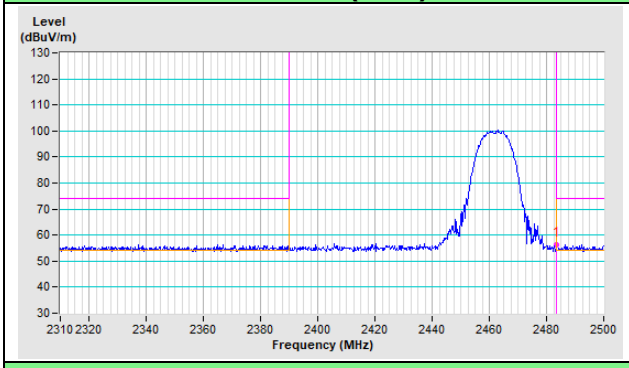
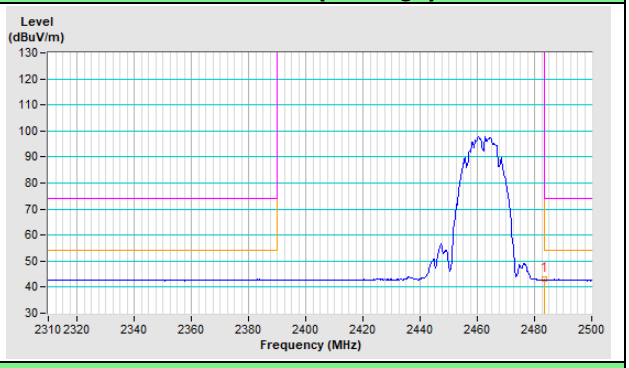
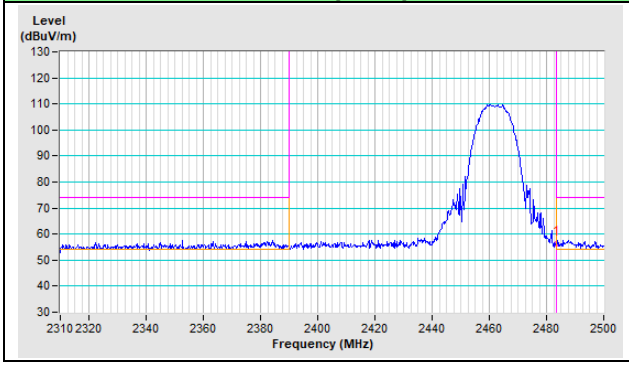
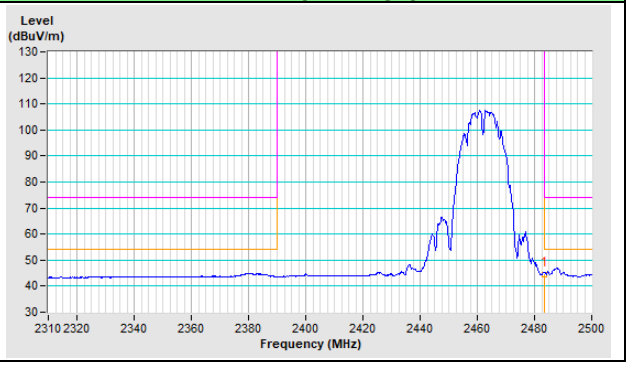



### Vertical (Average)



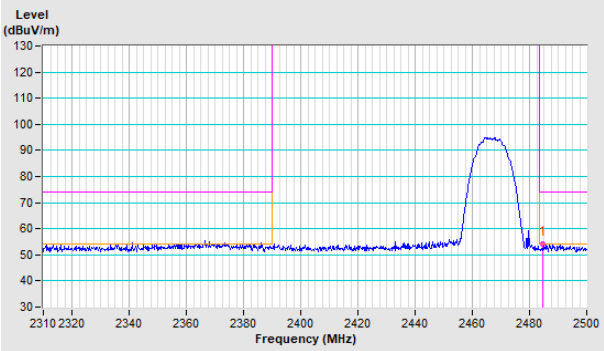
## PIFA Antenna

### 802.11b

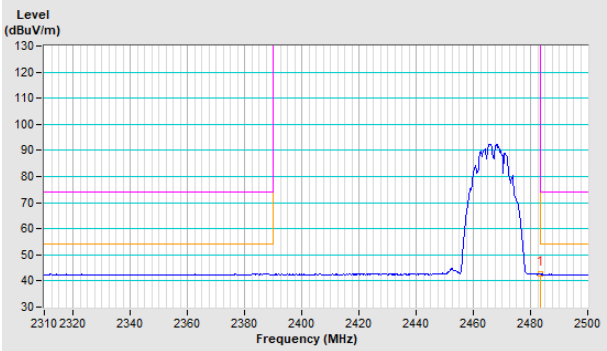
| Channel 1 | |
|---|---|
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |
| **Channel 11** | |
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |

## Channel 12

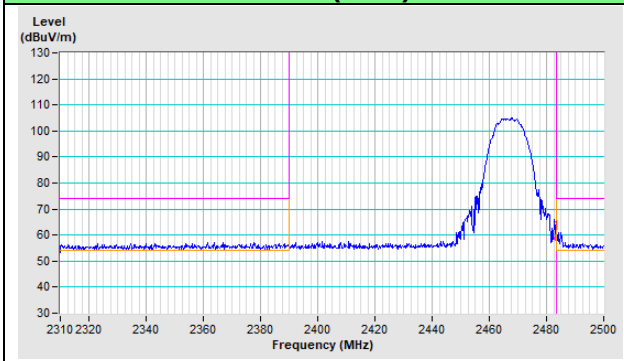
### Horizontal (Peak)



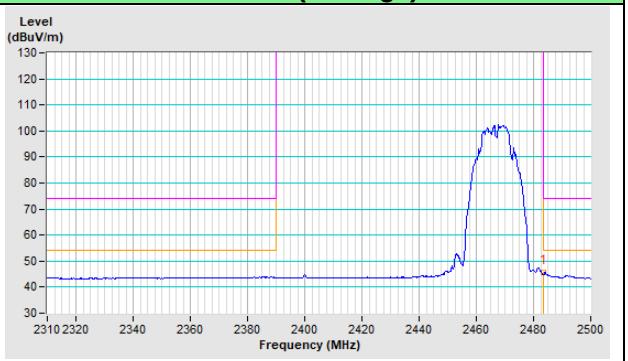

### Horizontal (Average)




### Vertical (Peak)

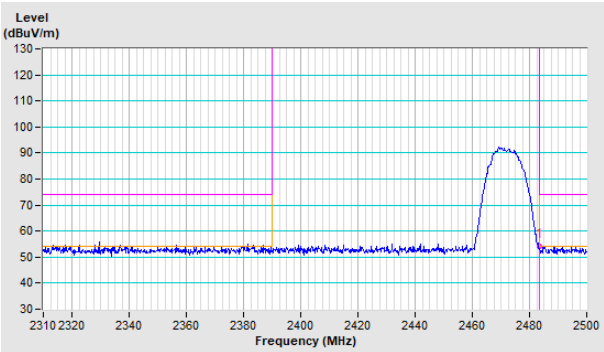



### Vertical (Average)

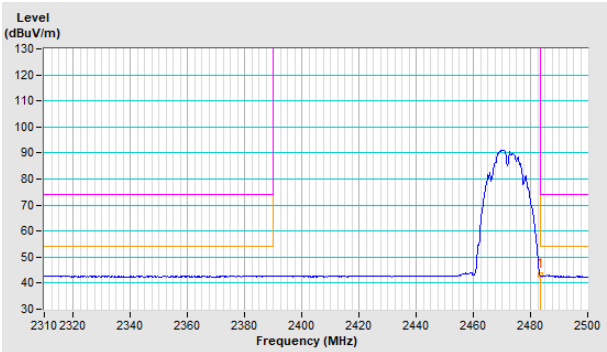



## Channel 13

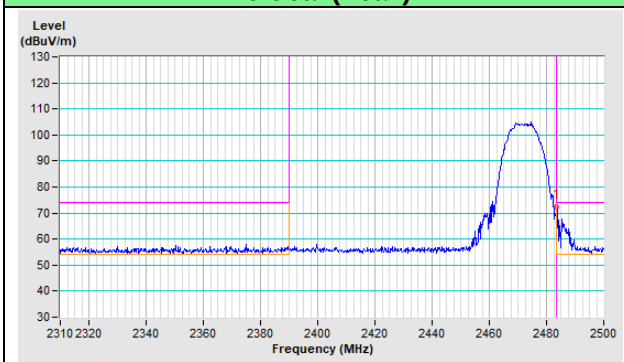
### Horizontal (Peak)



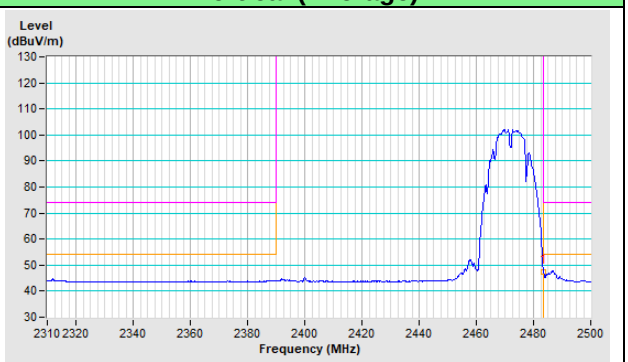

### Horizontal (Average)




### Vertical (Peak)



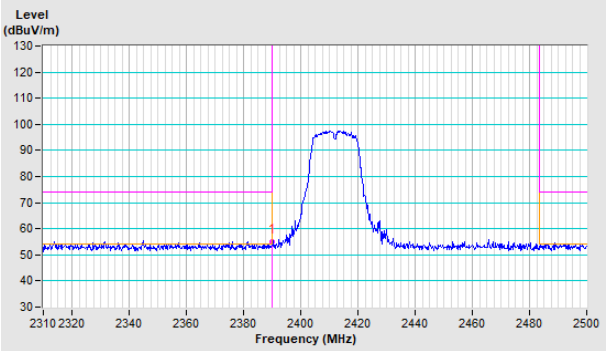

### Vertical (Average)



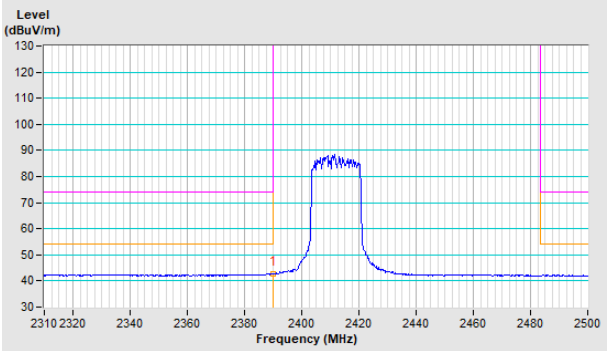
## 802.11g

### Channel 1

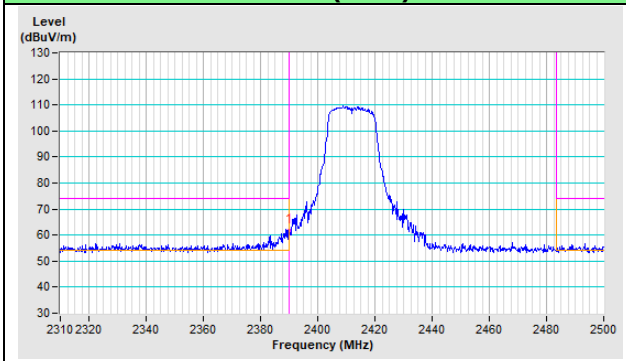
#### Horizontal (Peak)



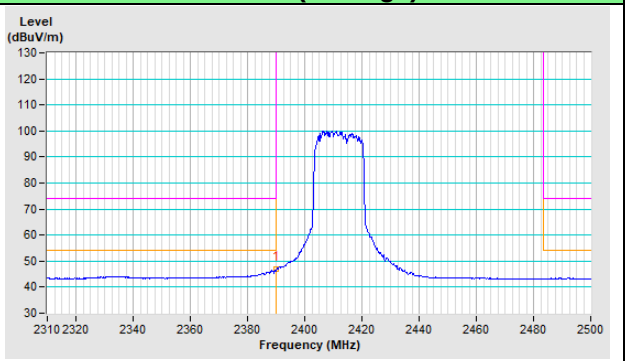

#### Horizontal (Average)




#### Vertical (Peak)

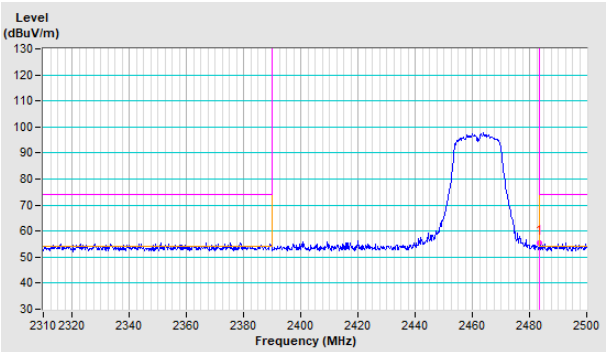



#### Vertical (Average)

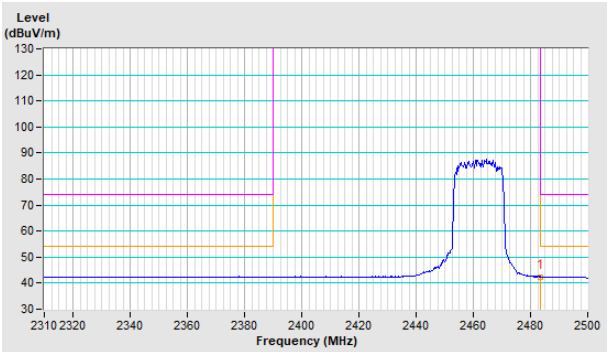



### Channel 11

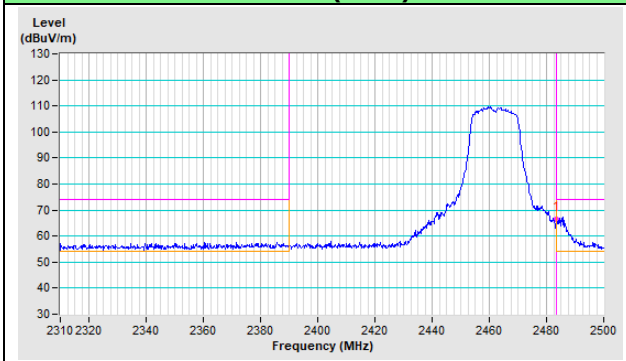
#### Horizontal (Peak)



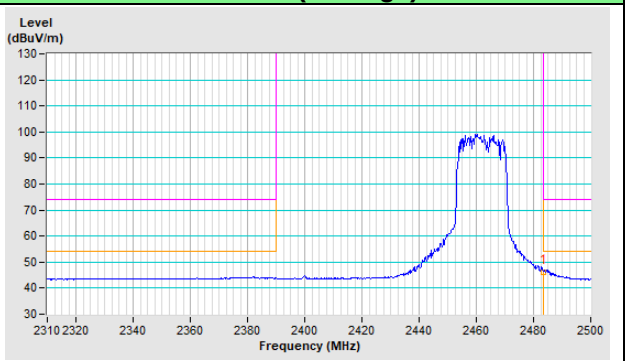

#### Horizontal (Average)




#### Vertical (Peak)

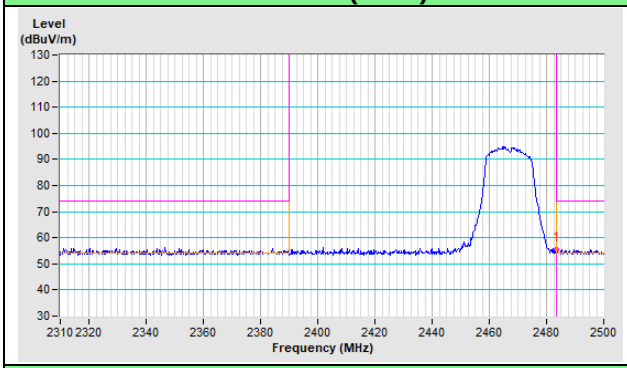



#### Vertical (Average)

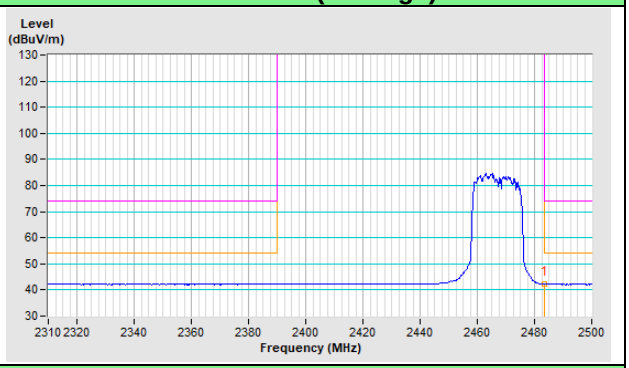


## Channel 12

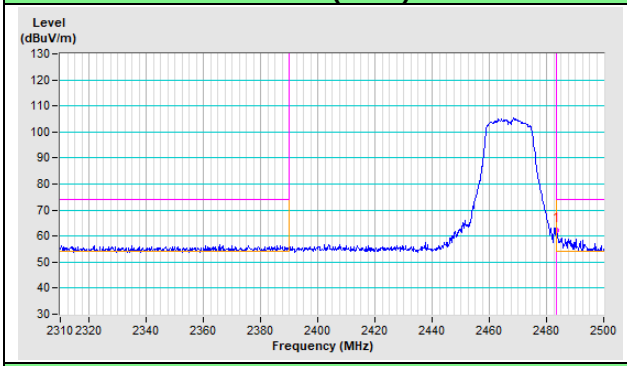
### Horizontal (Peak)



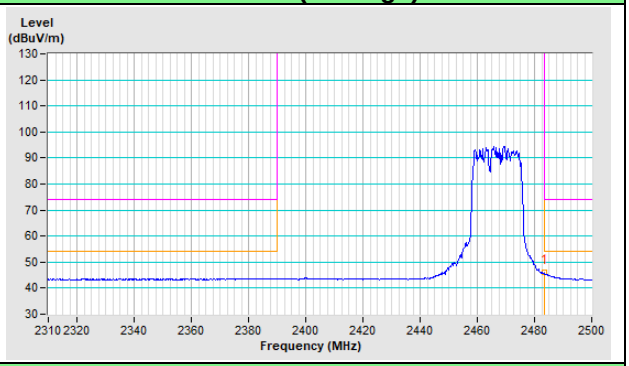

### Horizontal (Average)




### Vertical (Peak)

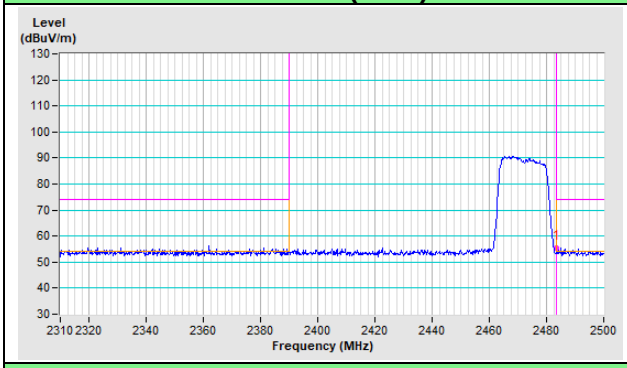



### Vertical (Average)

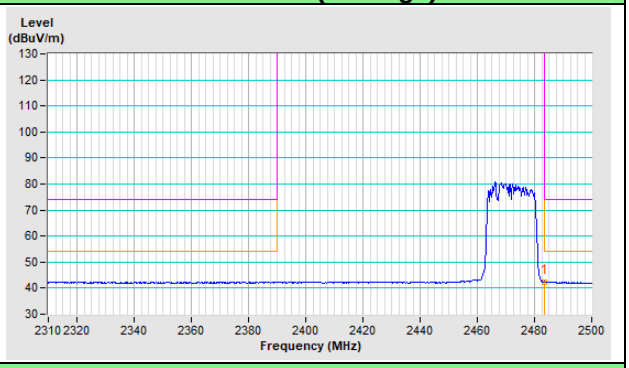



## Channel 13

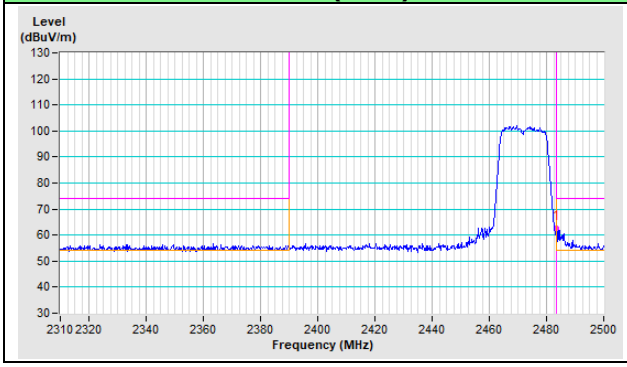
### Horizontal (Peak)



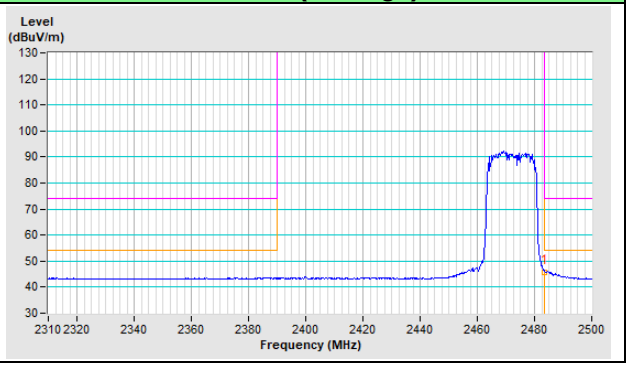

### Horizontal (Average)




### Vertical (Peak)



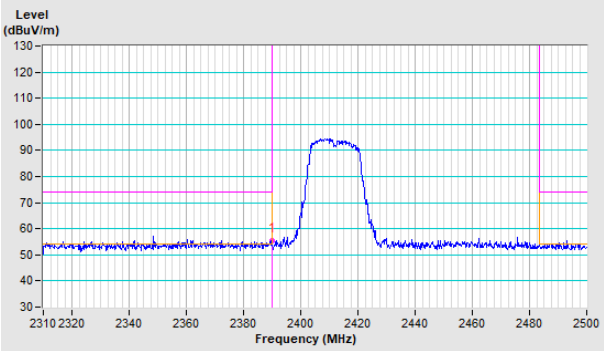

### Vertical (Average)



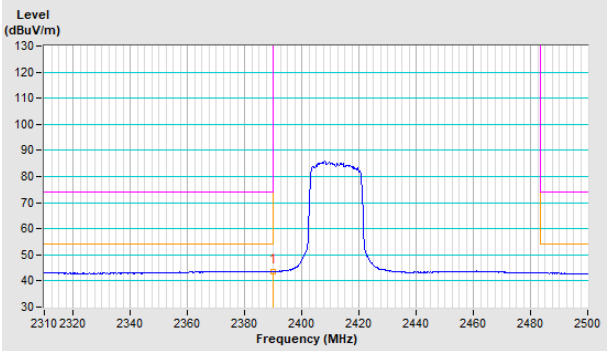
## VHT20

### Channel 1

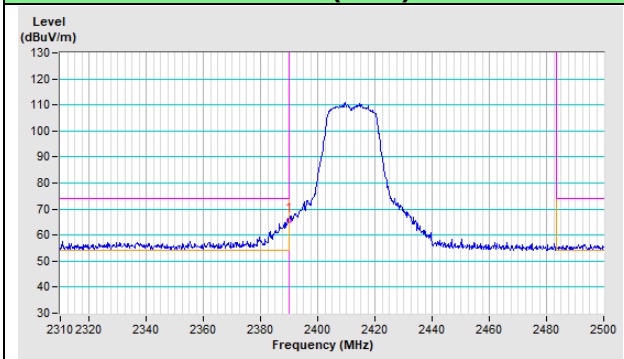
#### Horizontal (Peak)



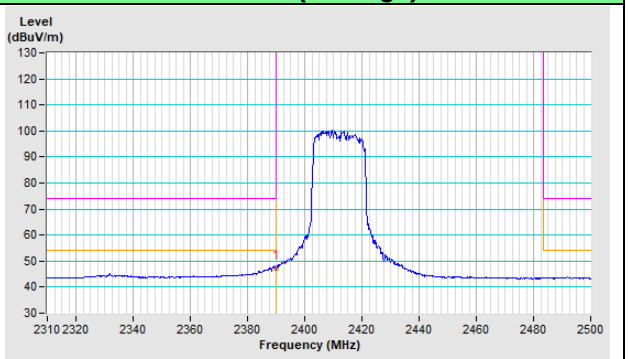

#### Horizontal (Average)




#### Vertical (Peak)

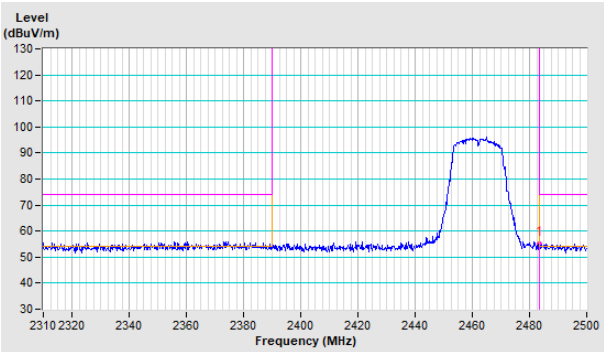



#### Vertical (Average)

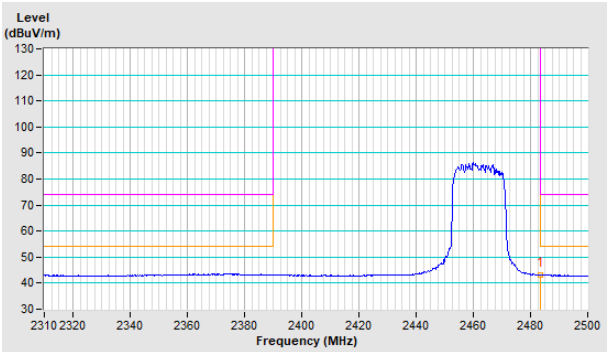



### Channel 11

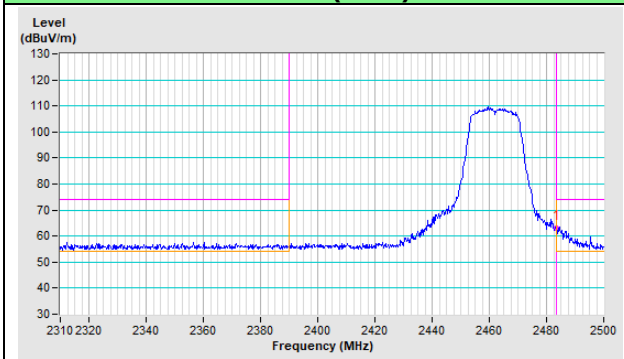
#### Horizontal (Peak)



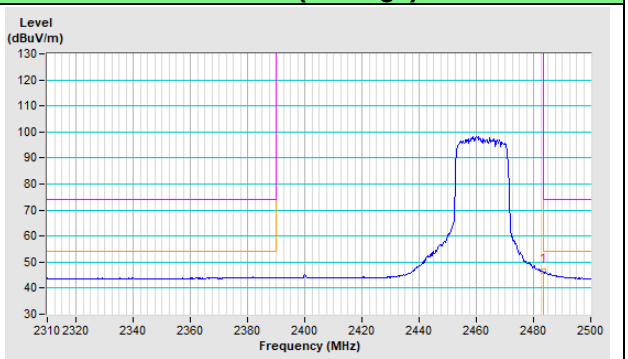

#### Horizontal (Average)

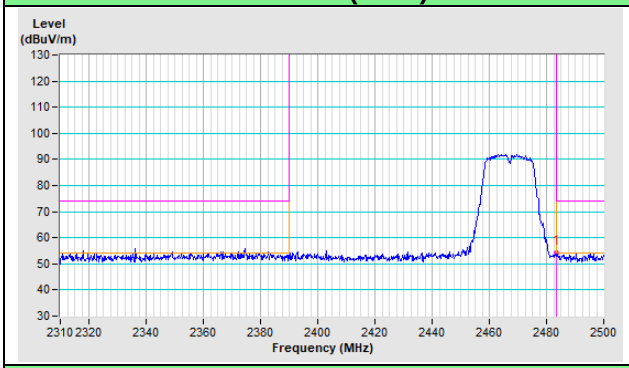
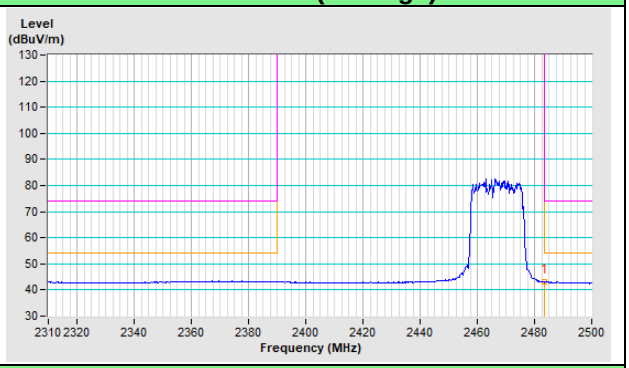
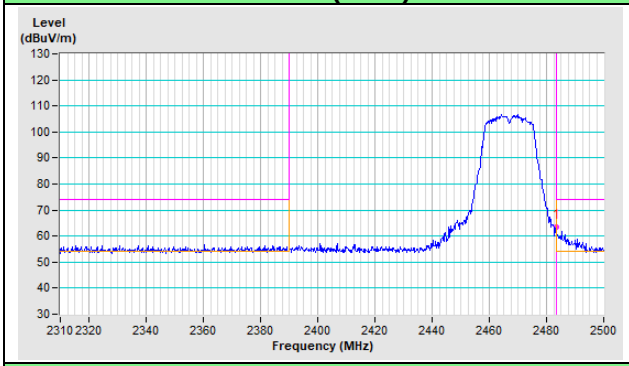
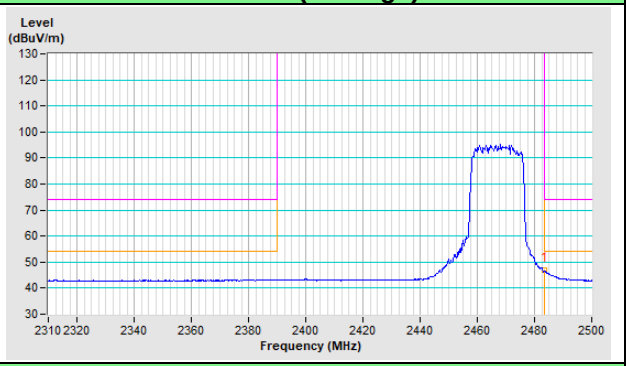
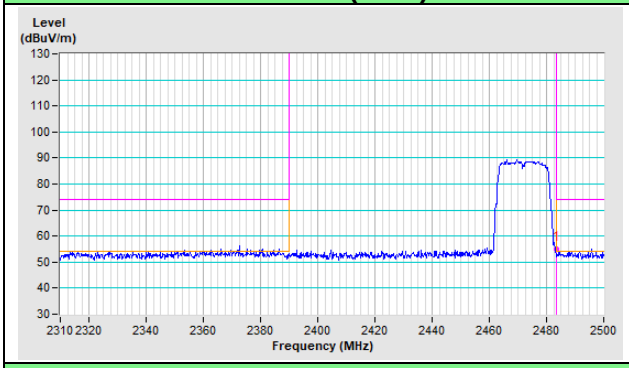
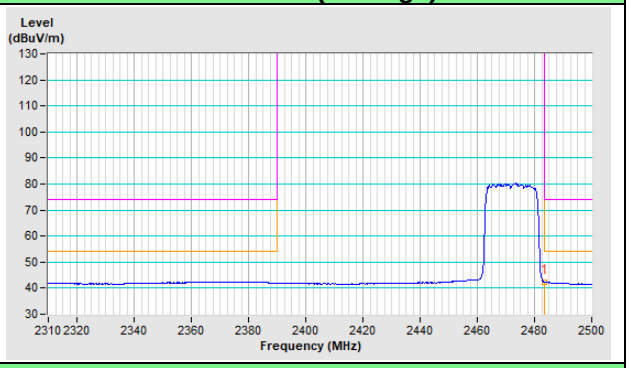
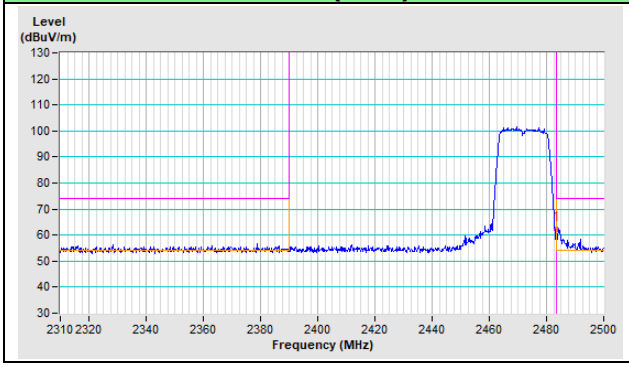
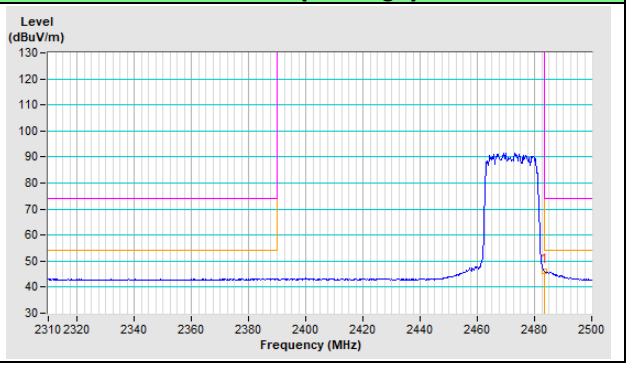



#### Vertical (Peak)




#### Vertical (Average)

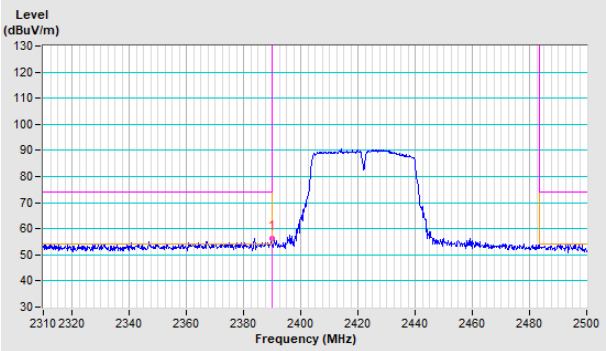


| Channel 12 | |
|---|---|
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |
| **Channel 13** | |
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |

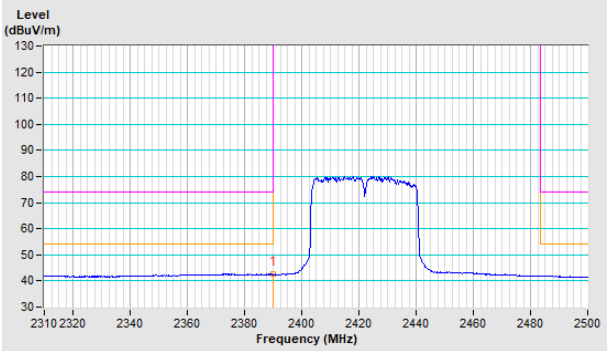
## VHT40

### Channel 3

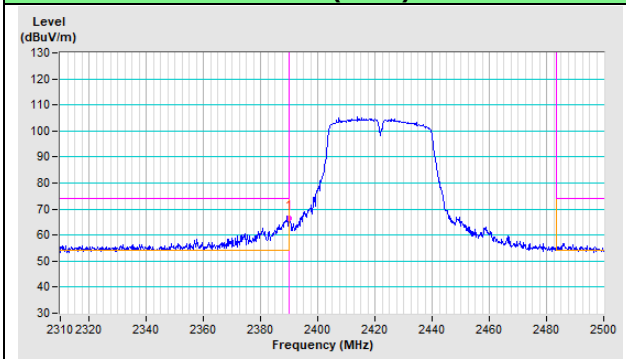
#### Horizontal (Peak)



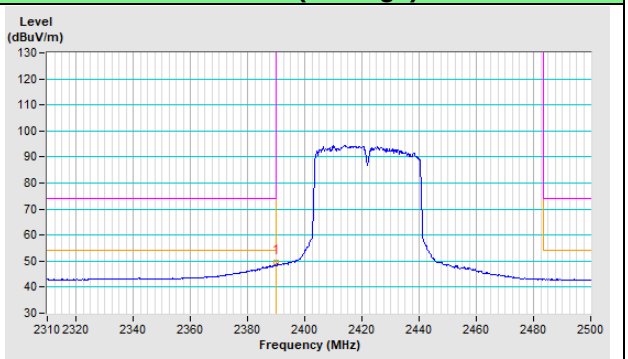

#### Horizontal (Average)




#### Vertical (Peak)

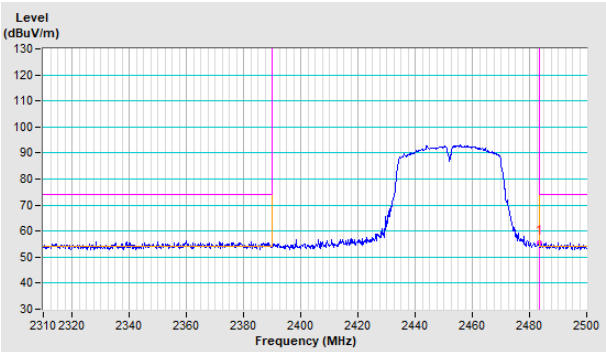



#### Vertical (Average)

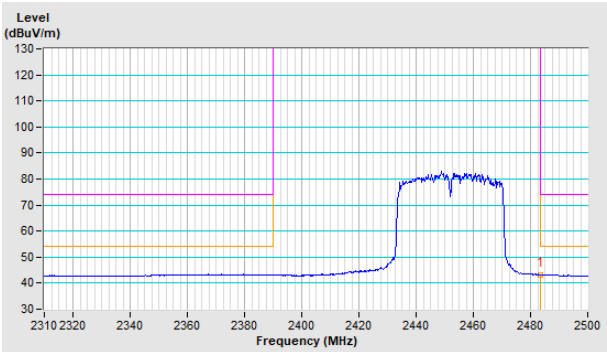



### Channel 9

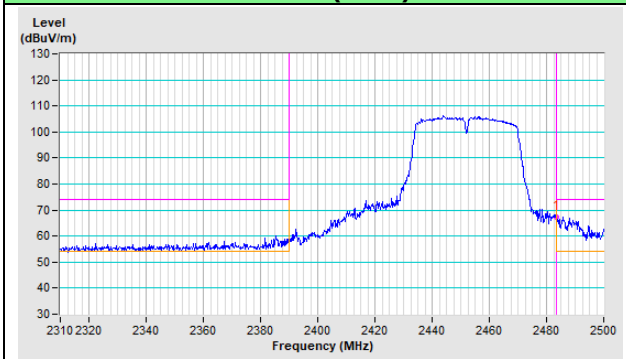
#### Horizontal (Peak)



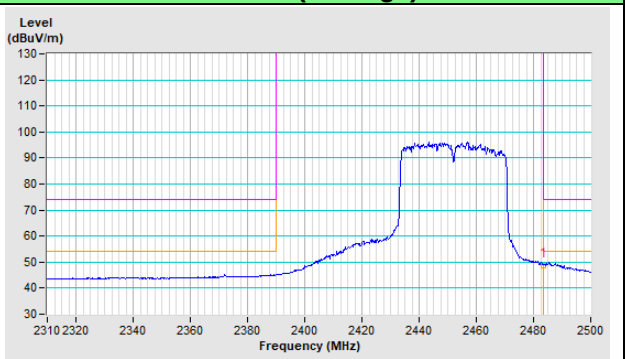

#### Horizontal (Average)

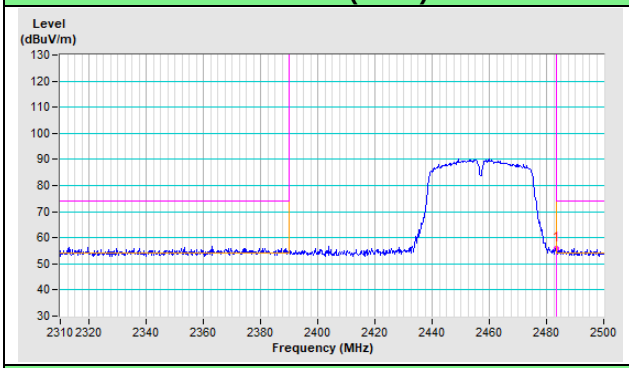
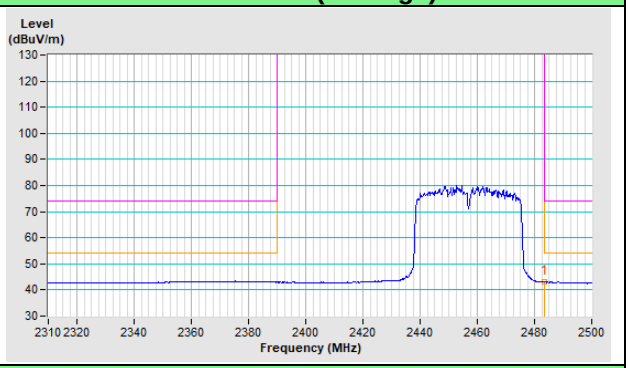
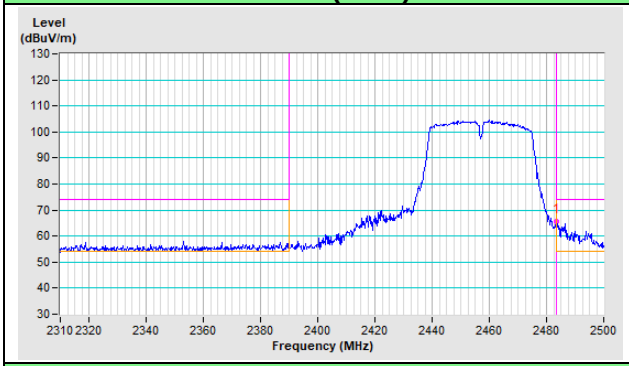
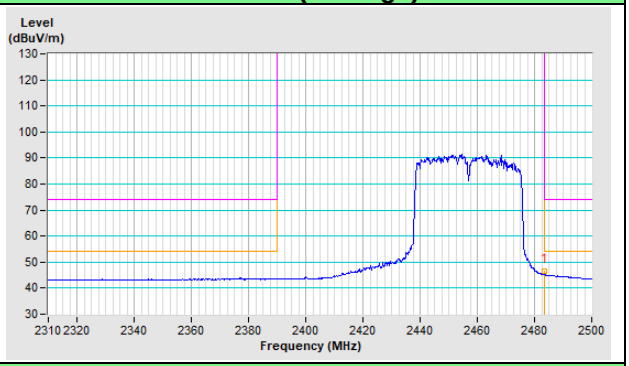
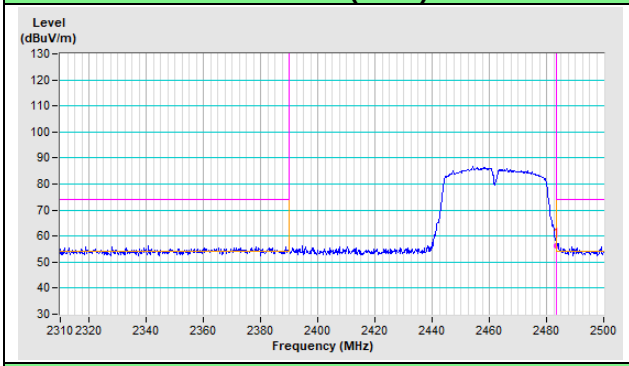
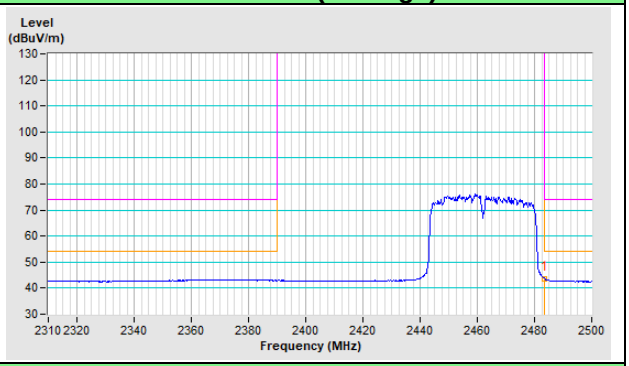
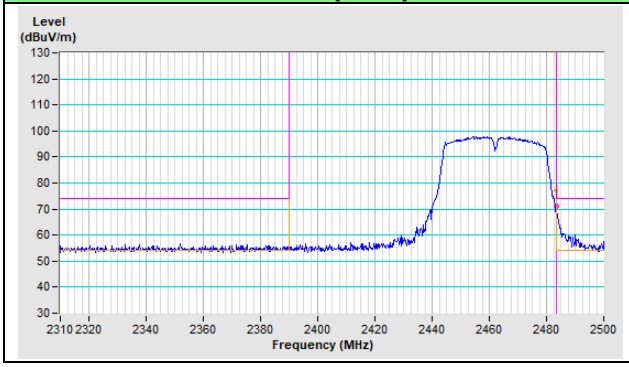
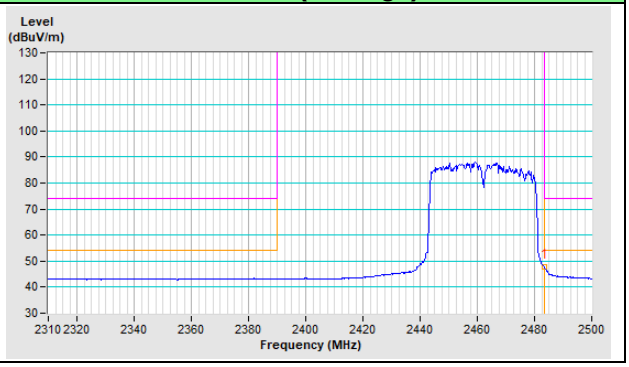



#### Vertical (Peak)




#### Vertical (Average)

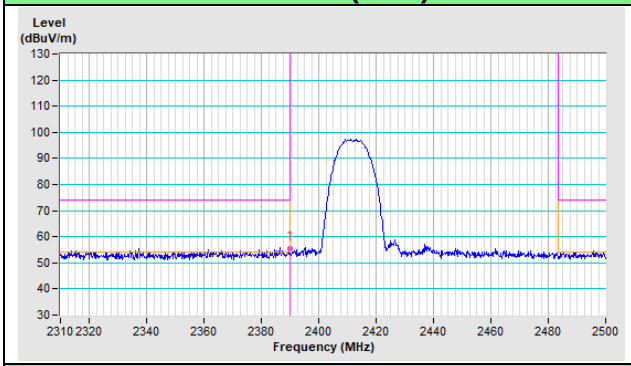
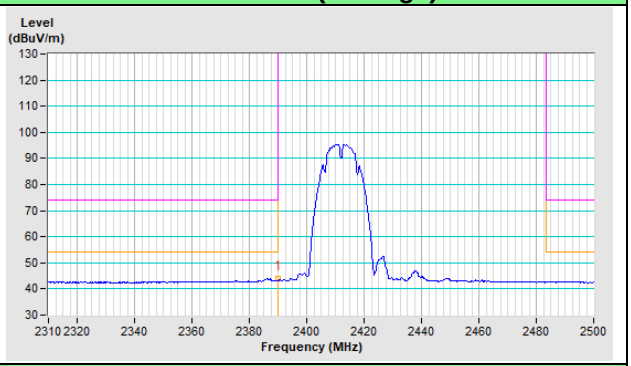
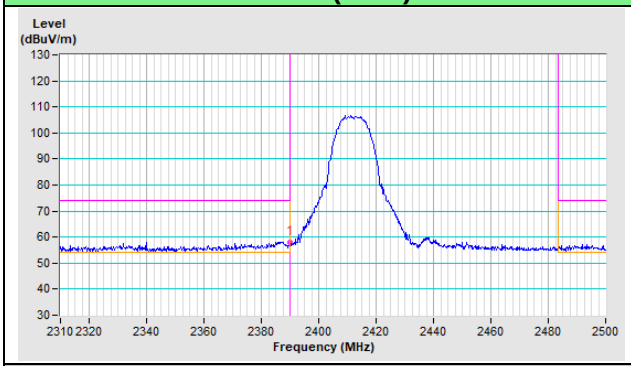
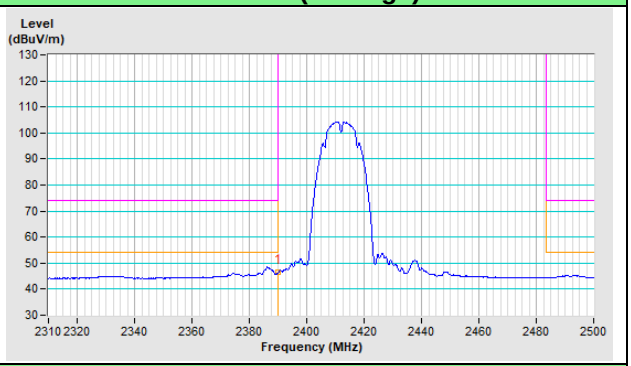
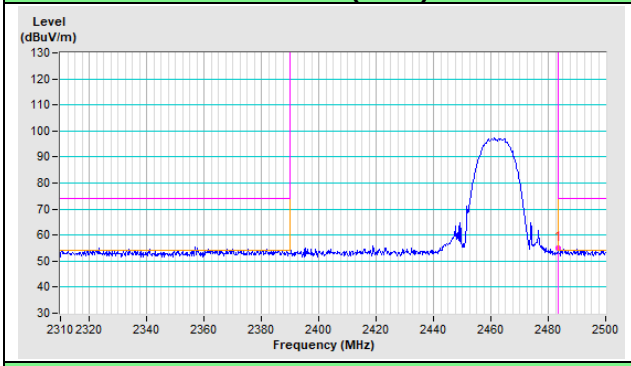
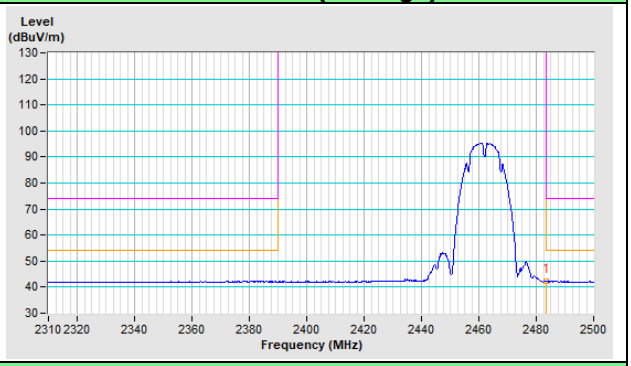
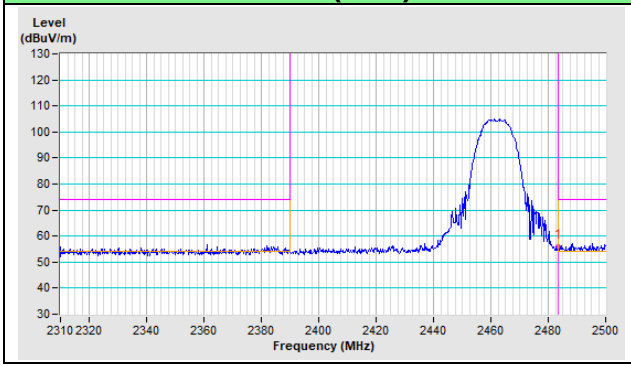
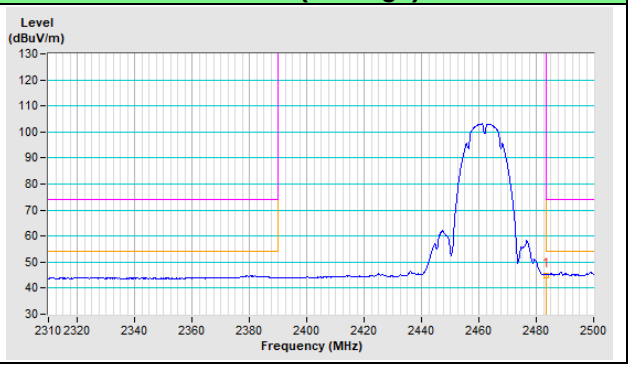


| Channel 10 | |
|---|---|
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |
| Channel 11 | |
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |

## Annex A.2 - Test Results (Mode 2)

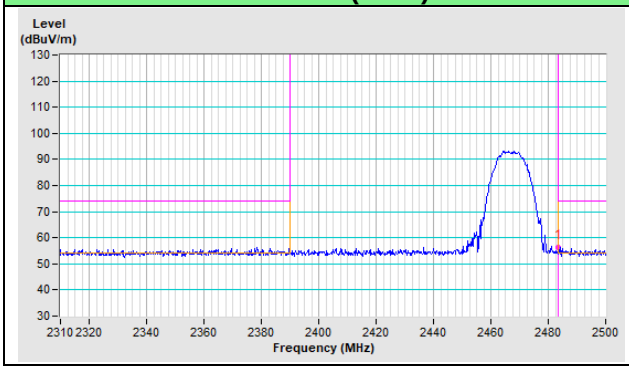
### Dipole Antenna

### 802.11b

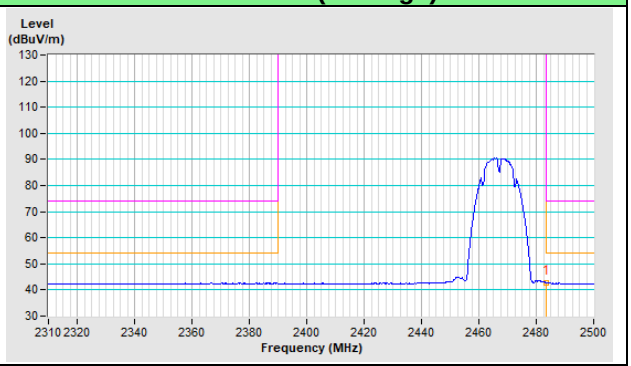
| Channel 1 | |
|---|---|
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |
| **Channel 11** | |
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |

## Channel 12

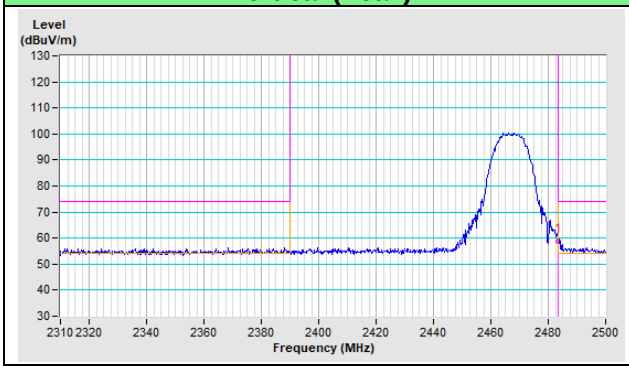
### Horizontal (Peak)



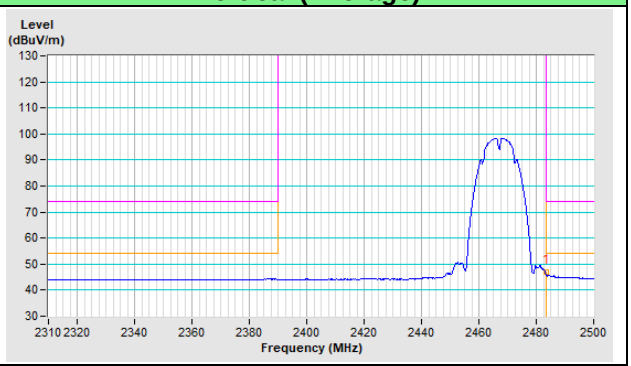

### Horizontal (Average)




### Vertical (Peak)

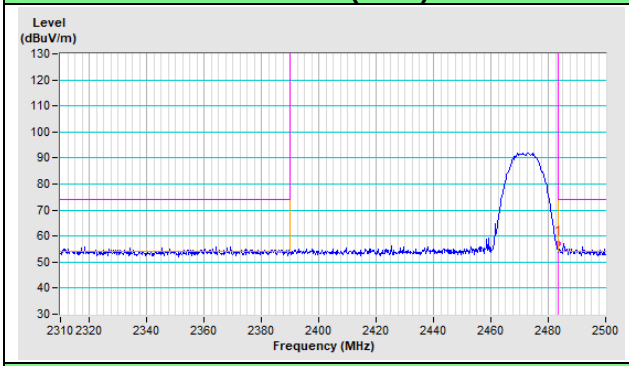



### Vertical (Average)

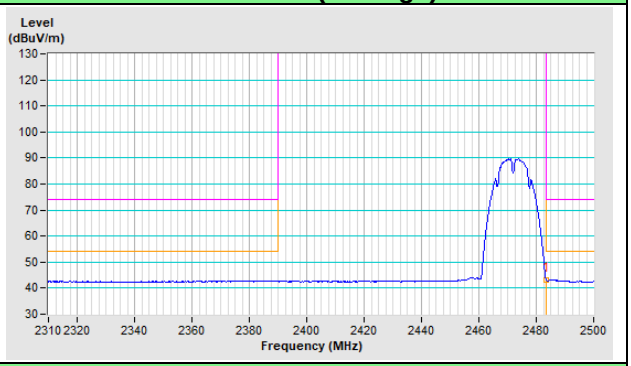



## Channel 13

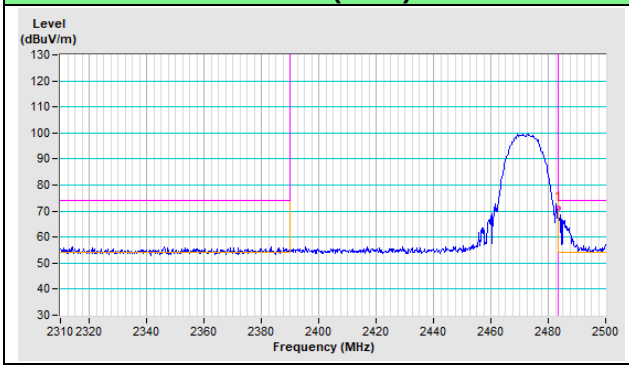
### Horizontal (Peak)



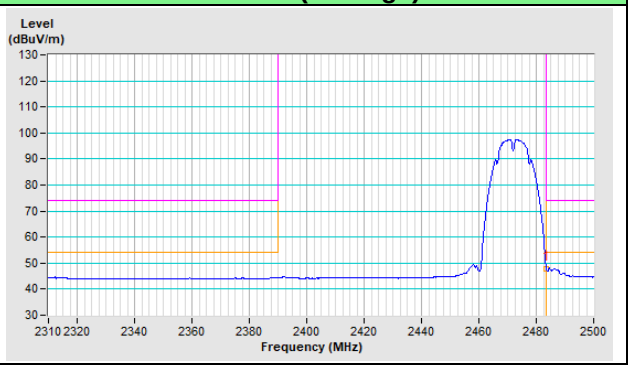

### Horizontal (Average)




### Vertical (Peak)



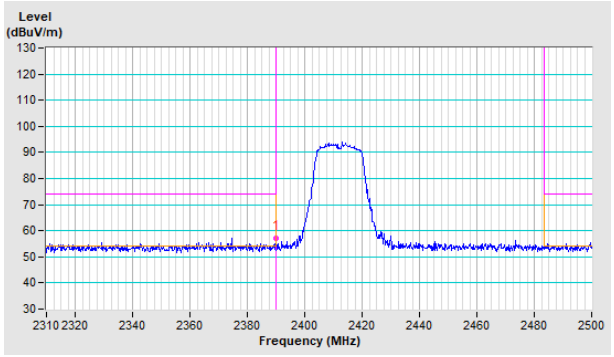

### Vertical (Average)



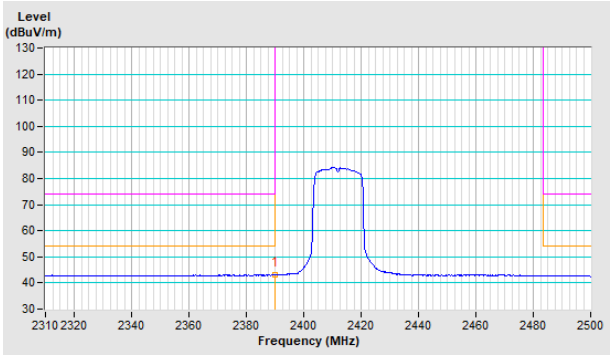
## 802.11g

### Channel 1

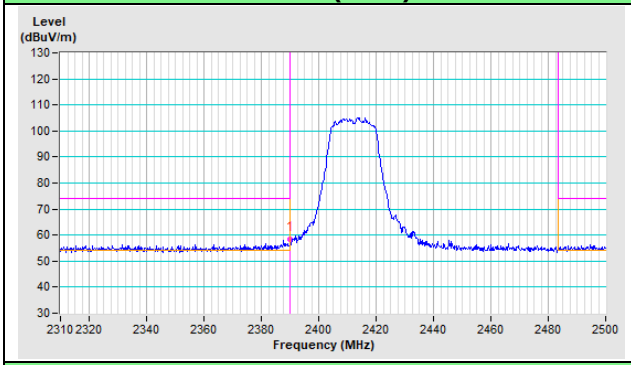
#### Horizontal (Peak)



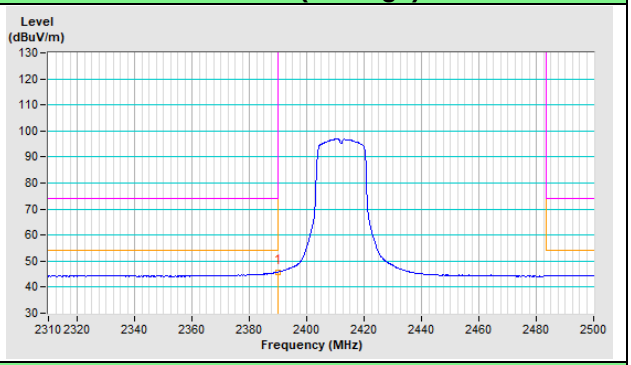

#### Horizontal (Average)




#### Vertical (Peak)

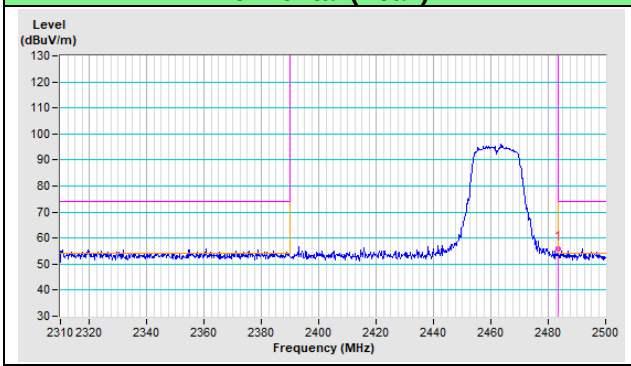



#### Vertical (Average)

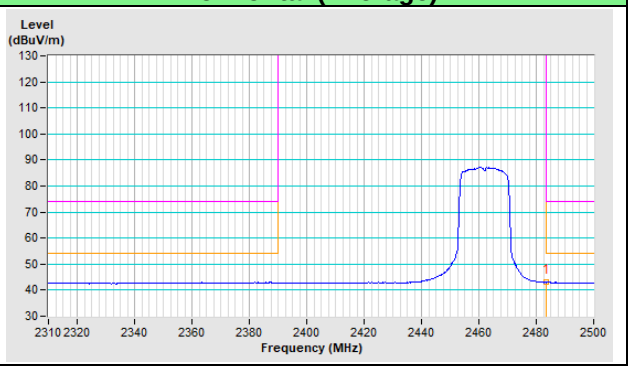



### Channel 11

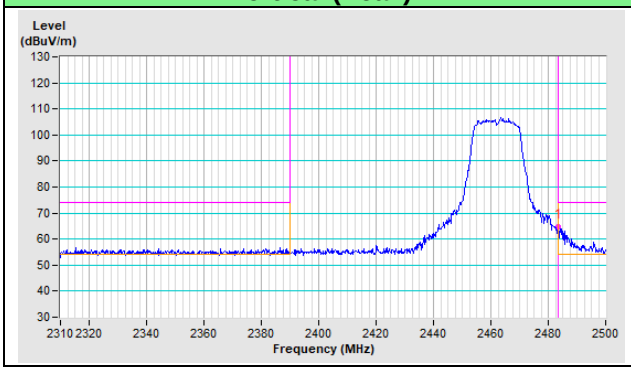
#### Horizontal (Peak)



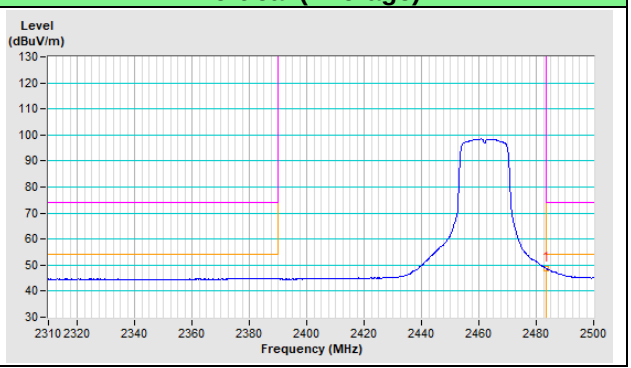

#### Horizontal (Average)




#### Vertical (Peak)

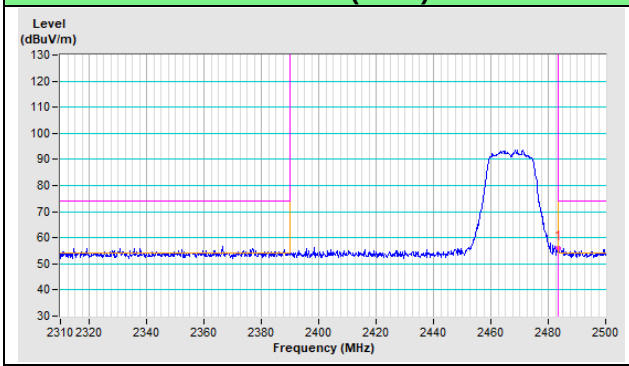



#### Vertical (Average)

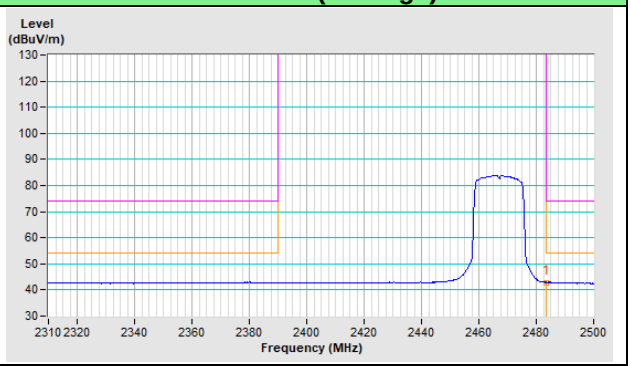


## Channel 12

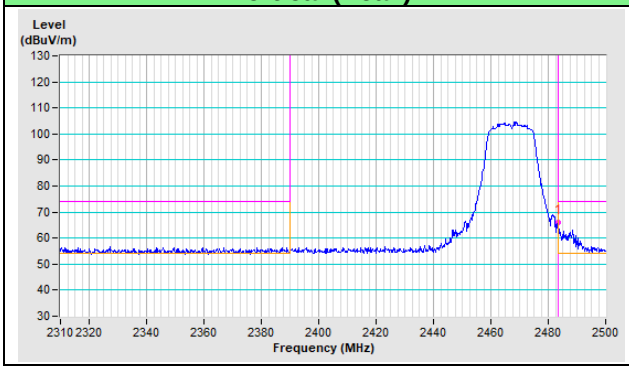
### Horizontal (Peak)



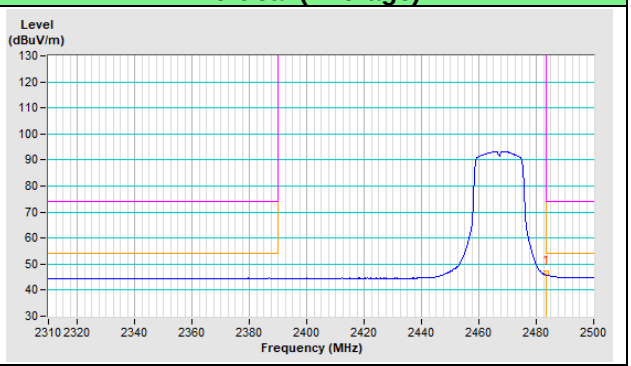

### Horizontal (Average)




### Vertical (Peak)

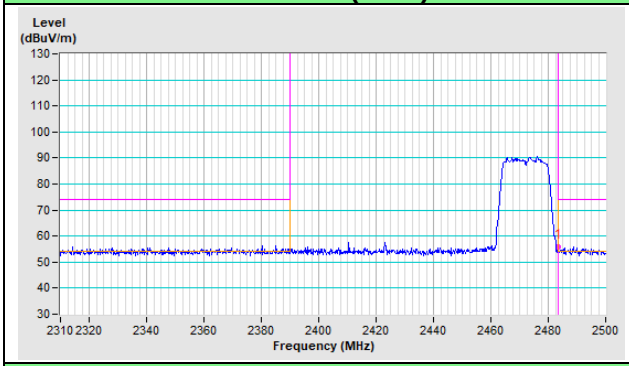



### Vertical (Average)

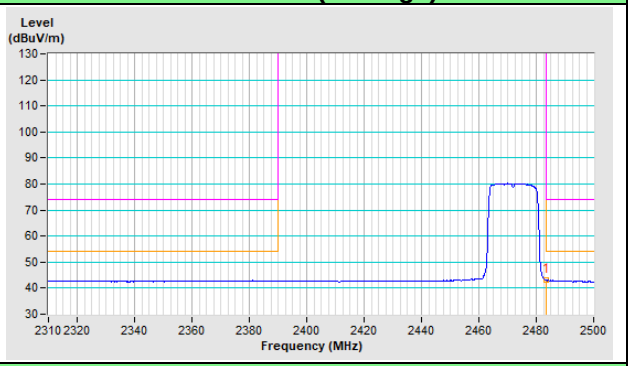



## Channel 13

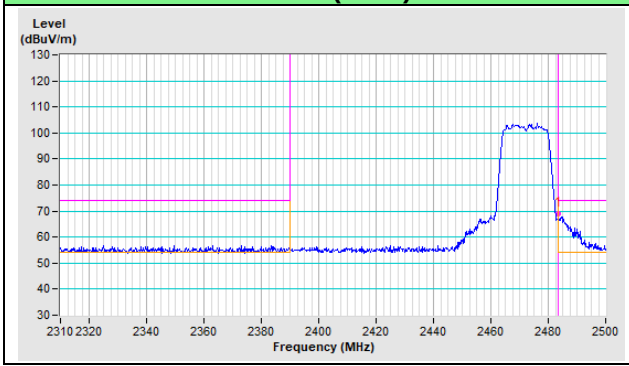
### Horizontal (Peak)



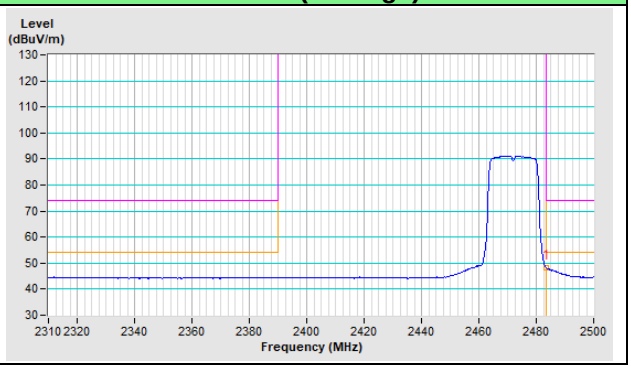

### Horizontal (Average)




### Vertical (Peak)



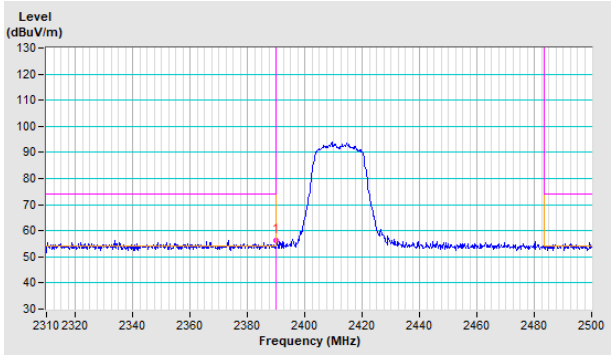

### Vertical (Average)



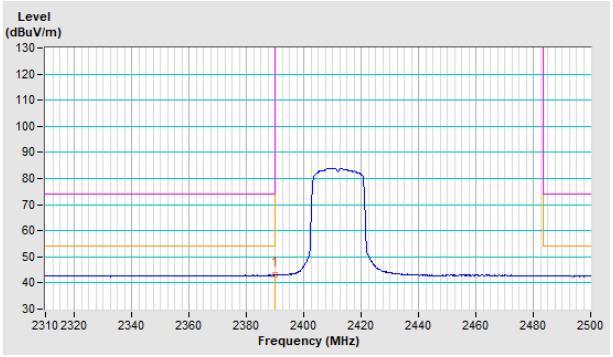
## VHT20

### Channel 1

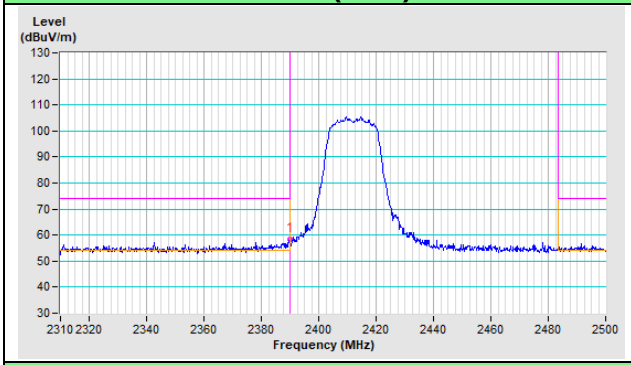
#### Horizontal (Peak)



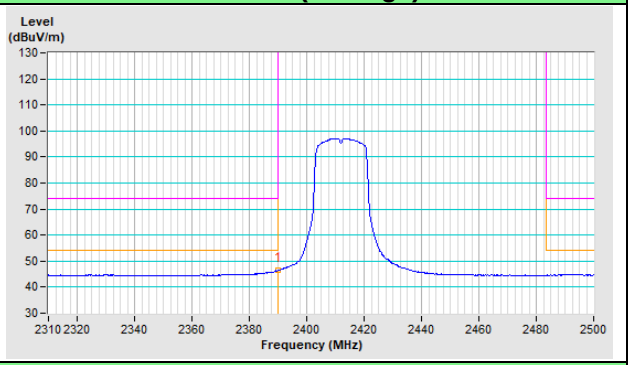

#### Horizontal (Average)




#### Vertical (Peak)

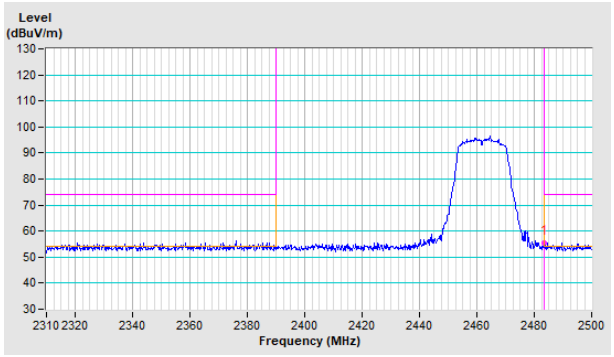



#### Vertical (Average)

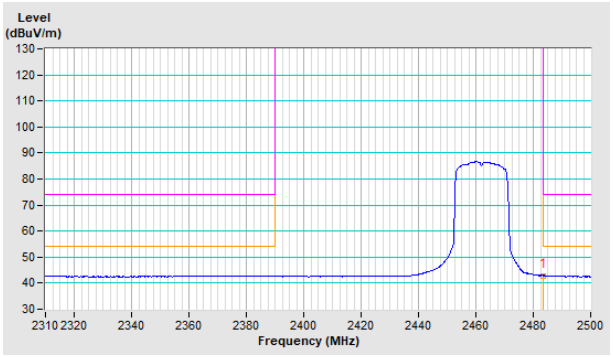



### Channel 11

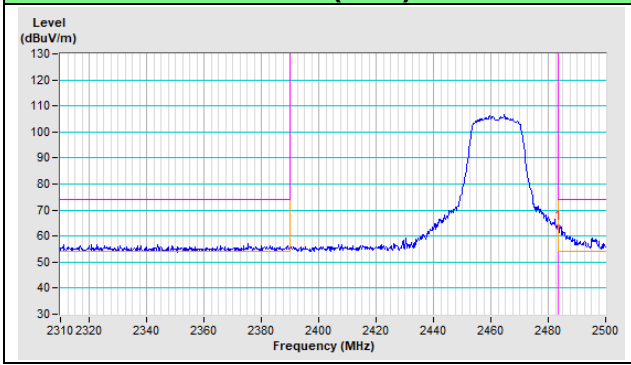
#### Horizontal (Peak)



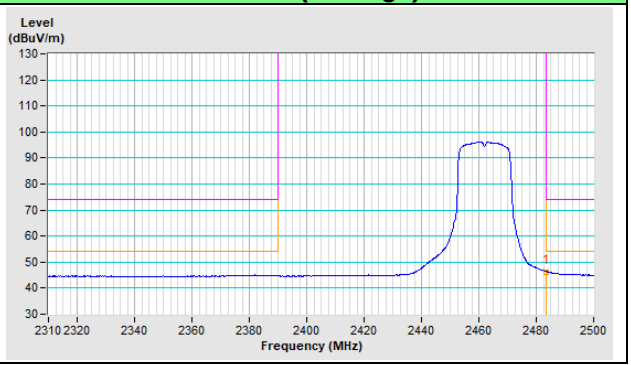

#### Horizontal (Average)




#### Vertical (Peak)

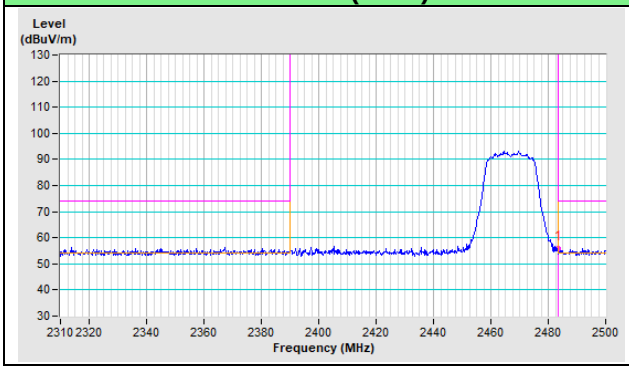



#### Vertical (Average)

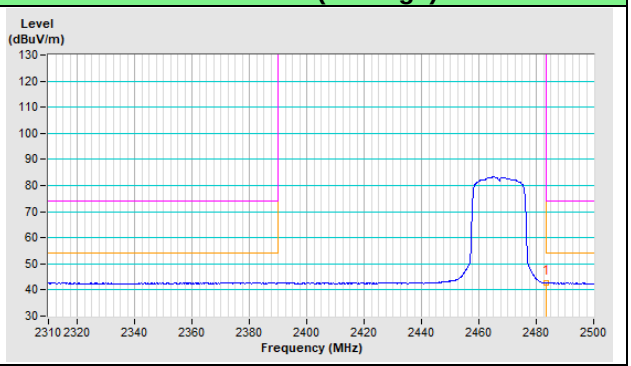


## Channel 12

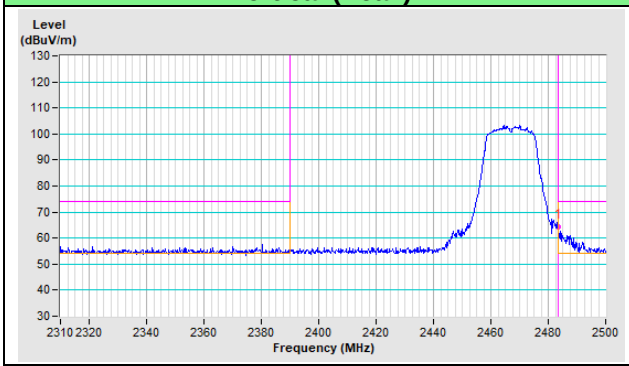
### Horizontal (Peak)



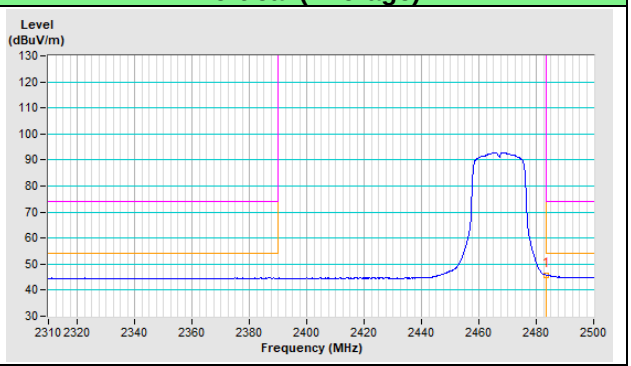

### Horizontal (Average)




### Vertical (Peak)

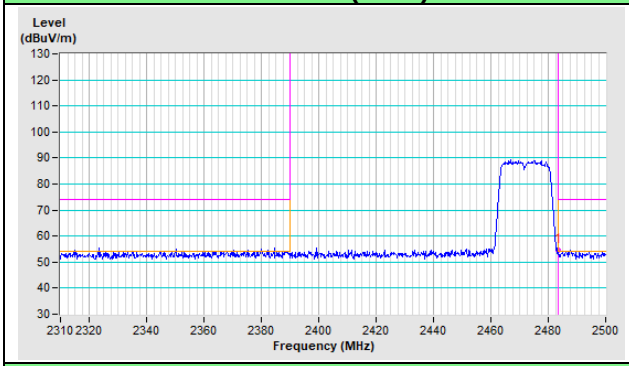



### Vertical (Average)

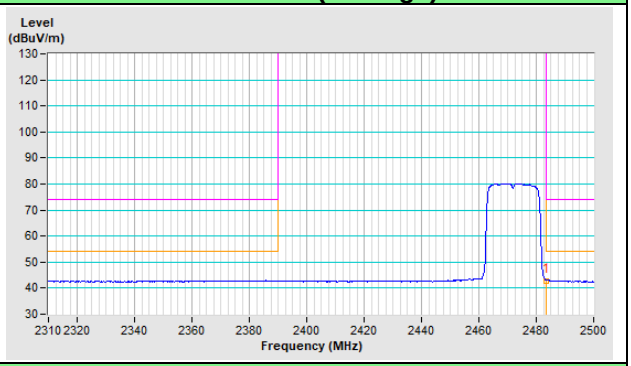



## Channel 13

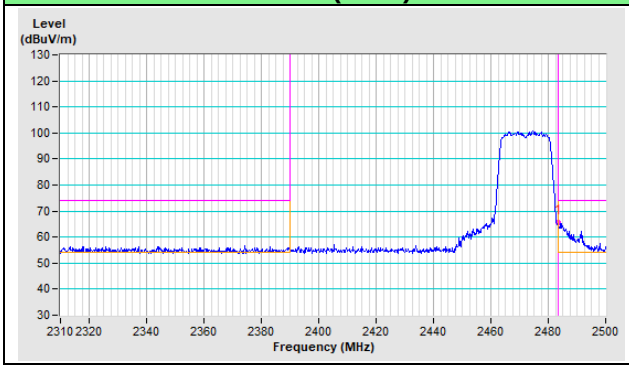
### Horizontal (Peak)



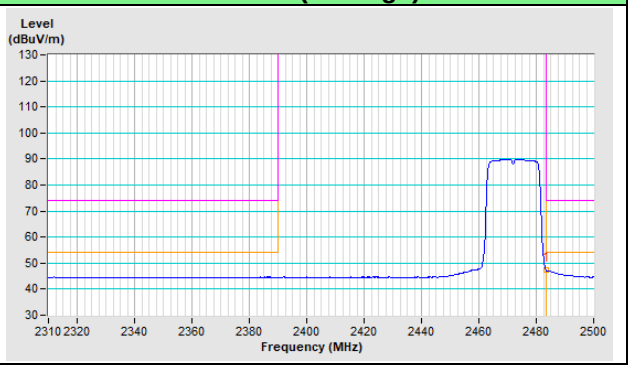

### Horizontal (Average)




### Vertical (Peak)



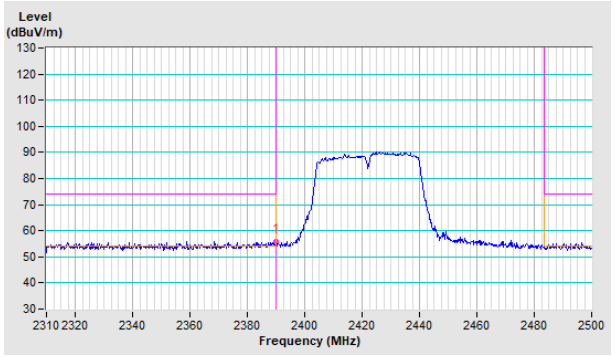

### Vertical (Average)



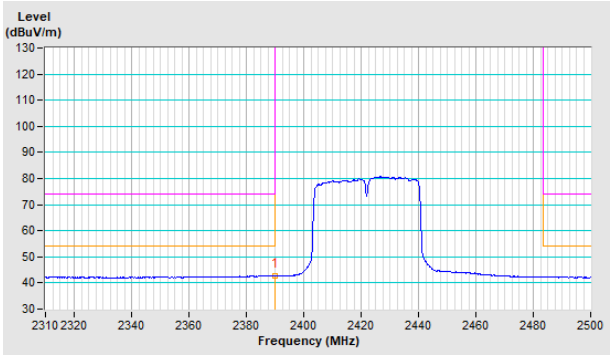
## VHT40

### Channel 3

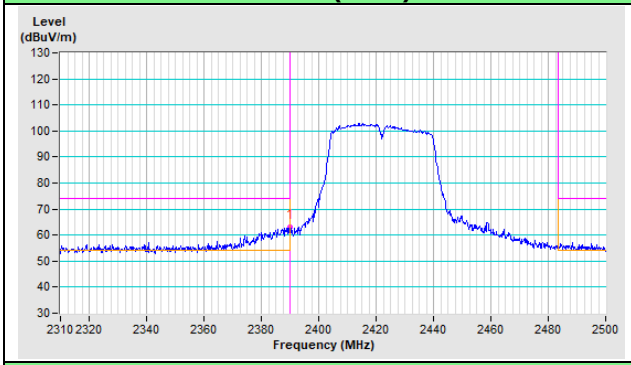
#### Horizontal (Peak)



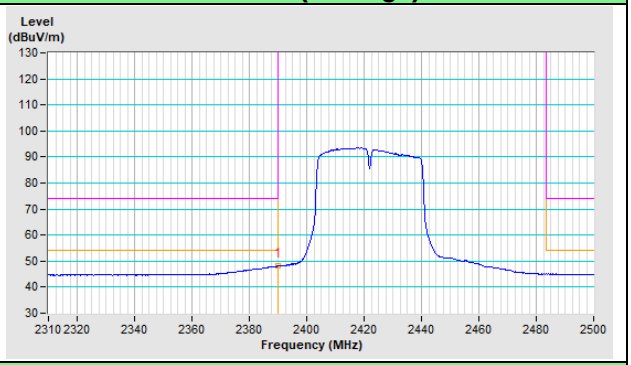

#### Horizontal (Average)




#### Vertical (Peak)

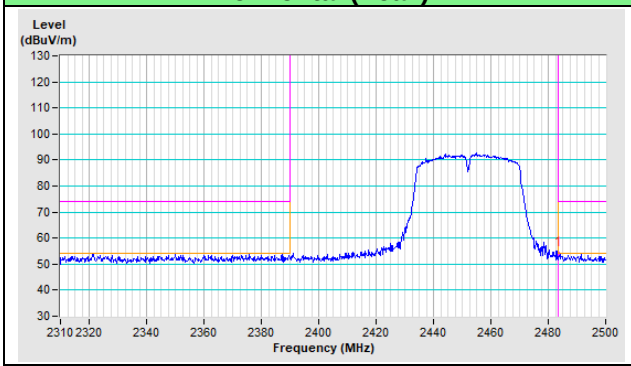



#### Vertical (Average)

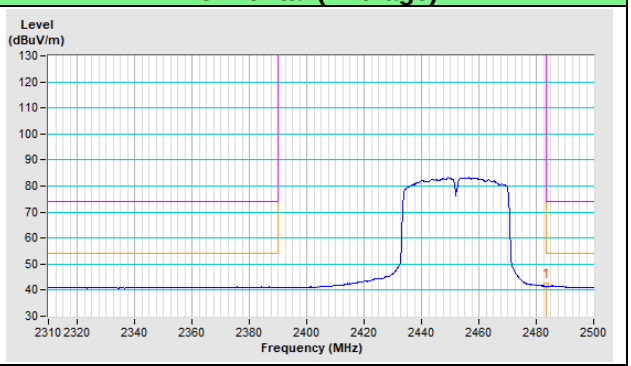



### Channel 9

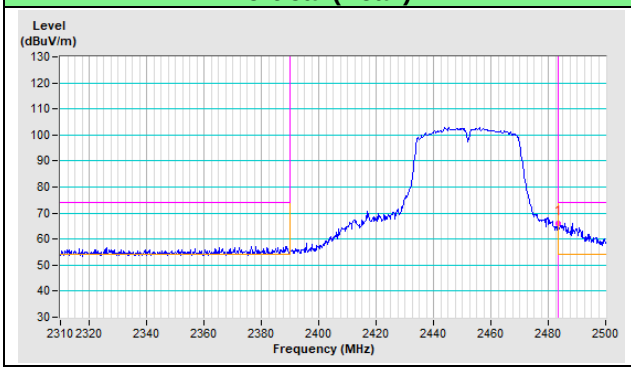
#### Horizontal (Peak)



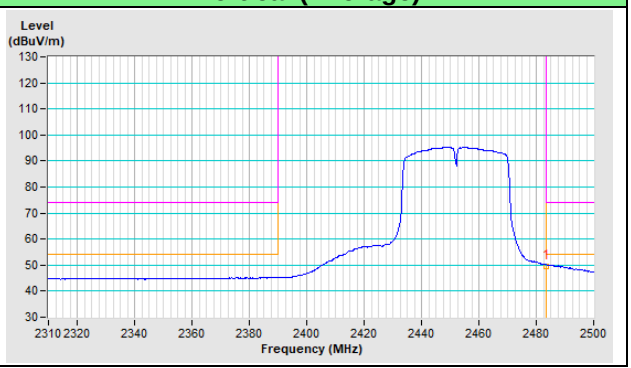

#### Horizontal (Average)




#### Vertical (Peak)

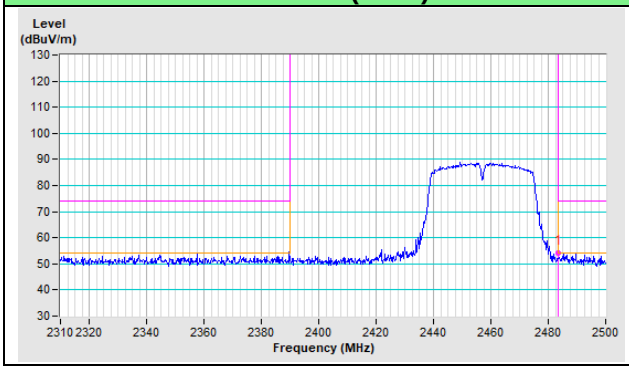



#### Vertical (Average)

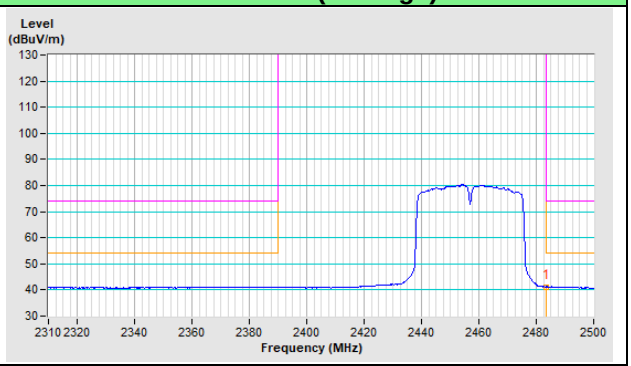


## Channel 10

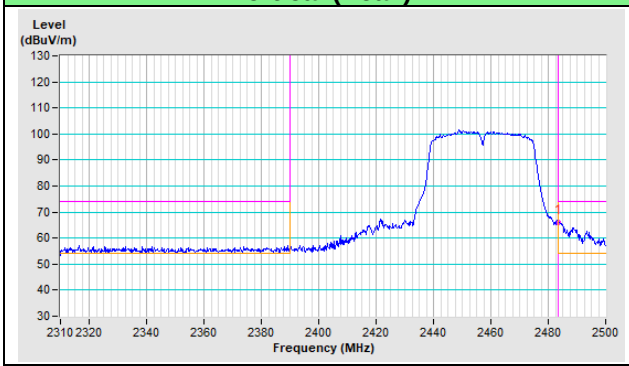
### Horizontal (Peak)



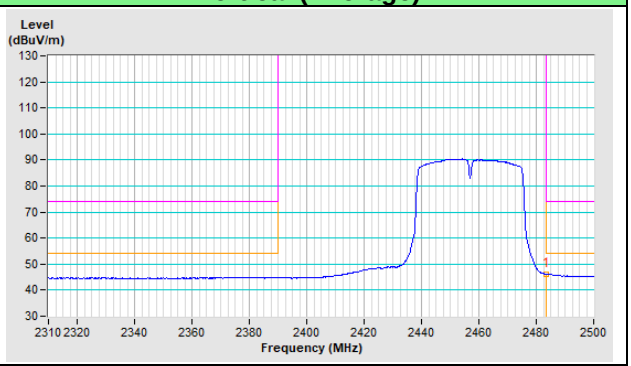

### Horizontal (Average)




### Vertical (Peak)

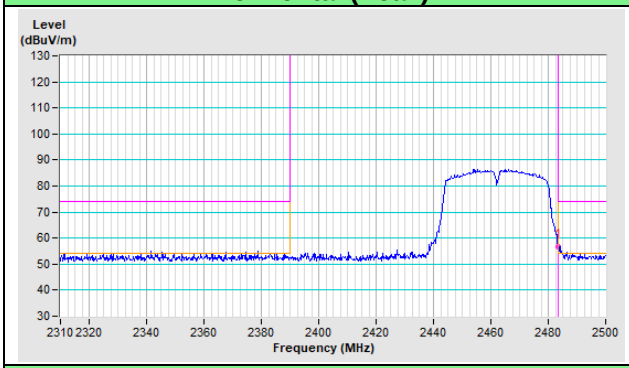



### Vertical (Average)

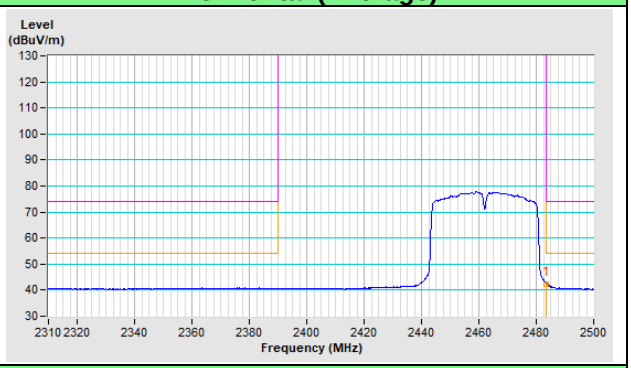



## Channel 11

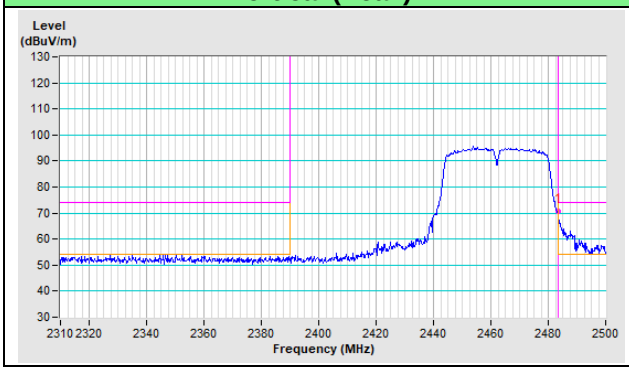
### Horizontal (Peak)



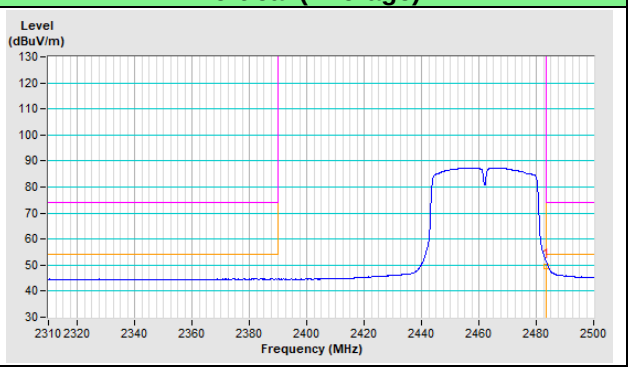

### Horizontal (Average)




### Vertical (Peak)

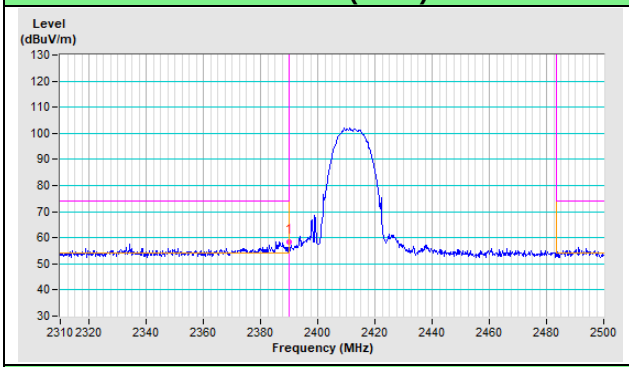
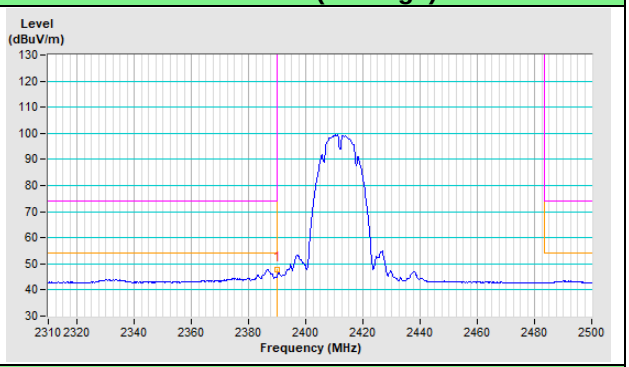
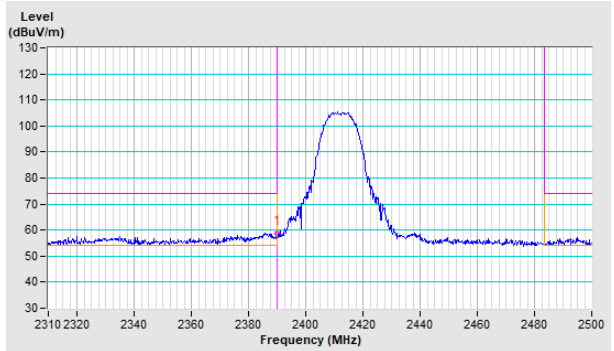
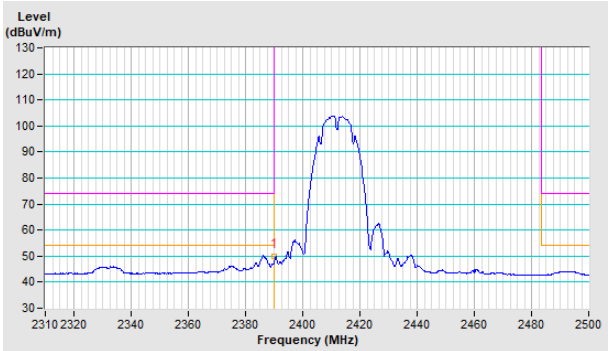
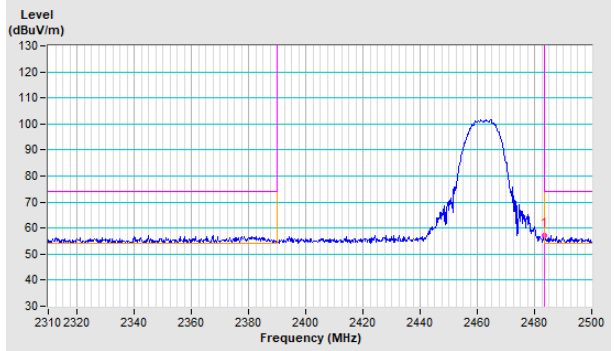
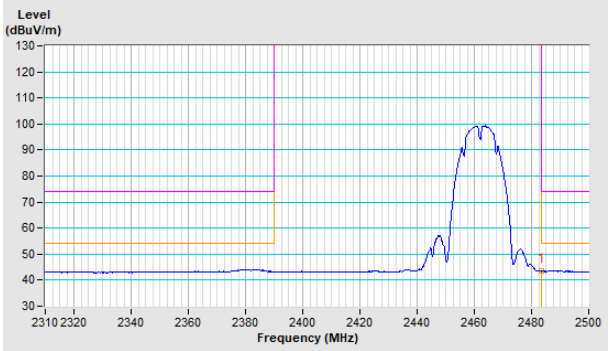
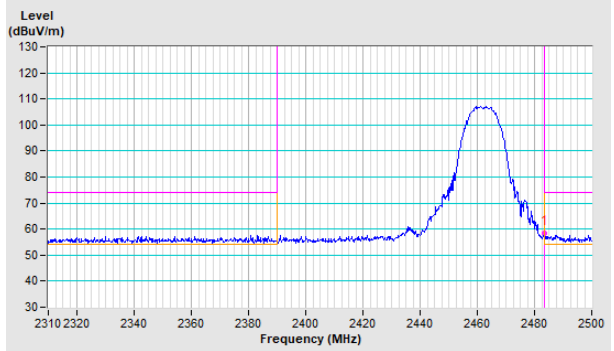
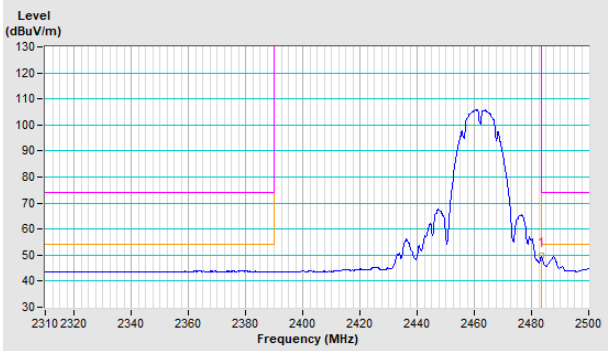


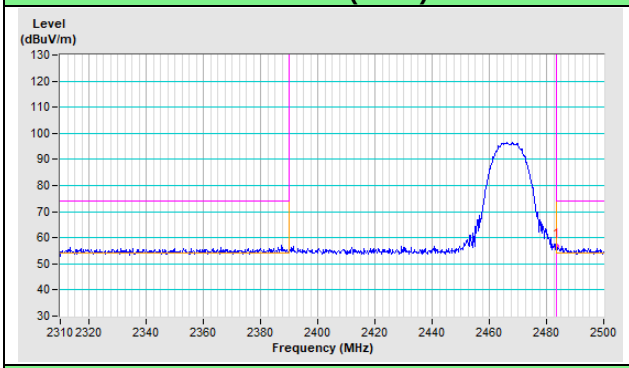
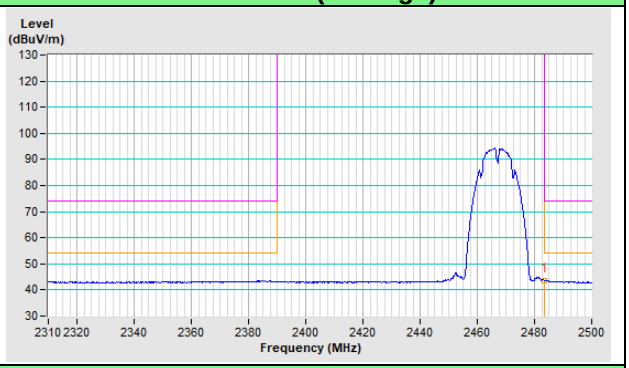
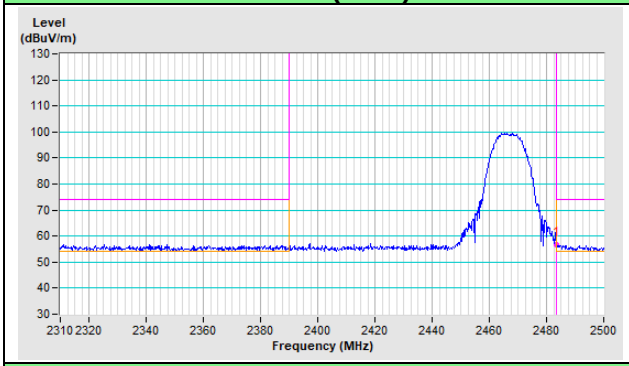
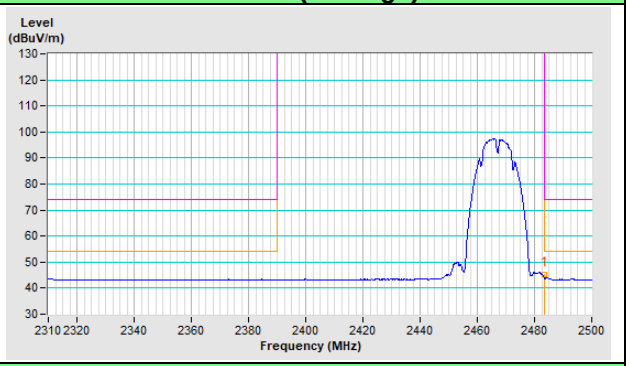
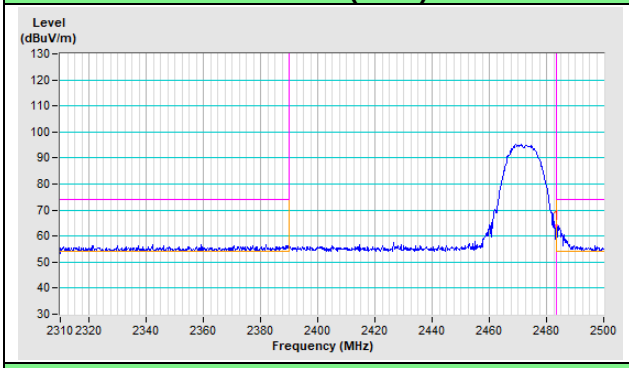
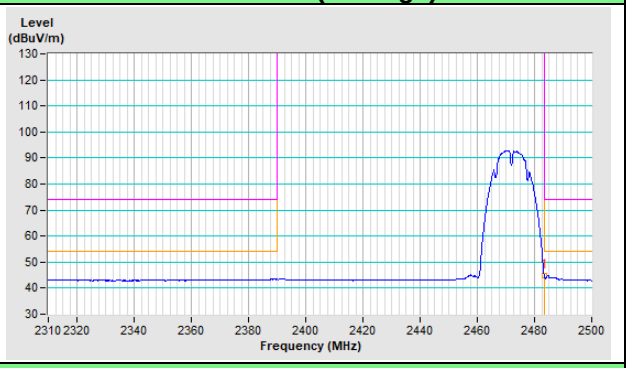
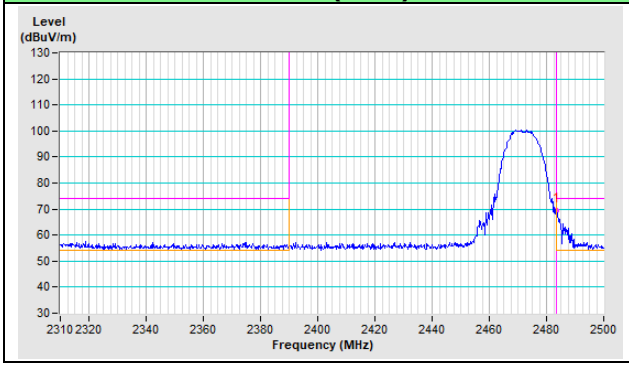
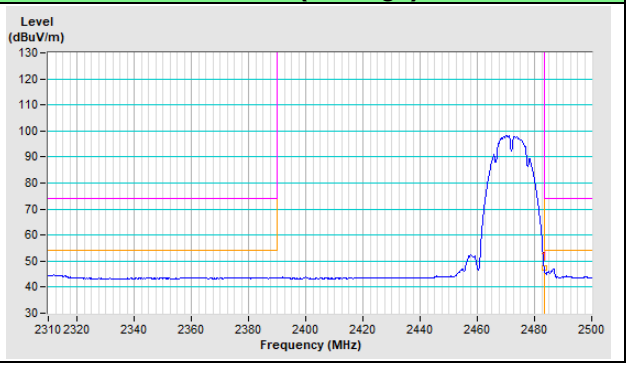

### Vertical (Average)



## PIFA Antenna

### 802.11b

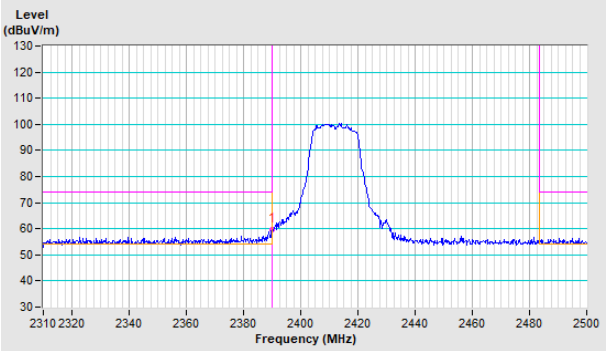
| Channel 1 | |
|---|---|
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |
| **Channel 11** | |
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |

| Channel 12 | |
|---|---|
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |
| **Channel 13** | |
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |

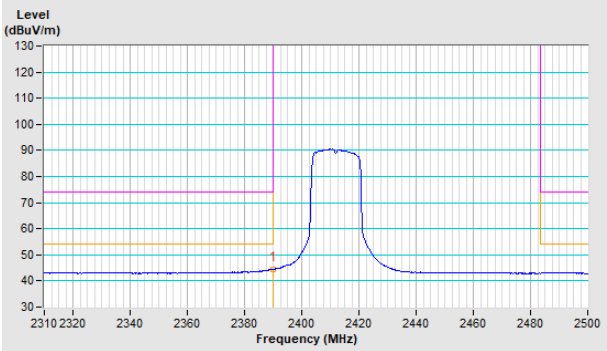
## 802.11g

### Channel 1

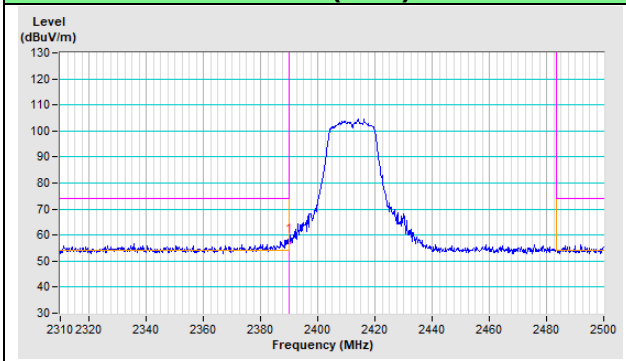
#### Horizontal (Peak)



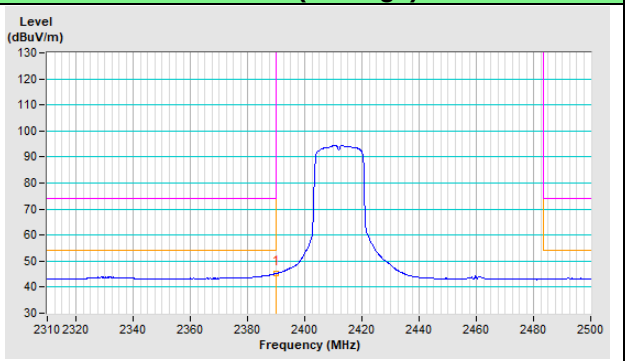

#### Horizontal (Average)




#### Vertical (Peak)

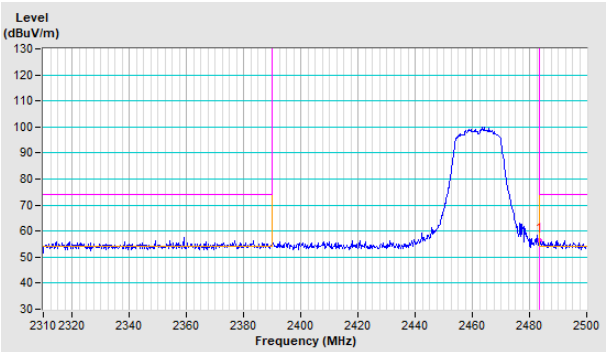



#### Vertical (Average)

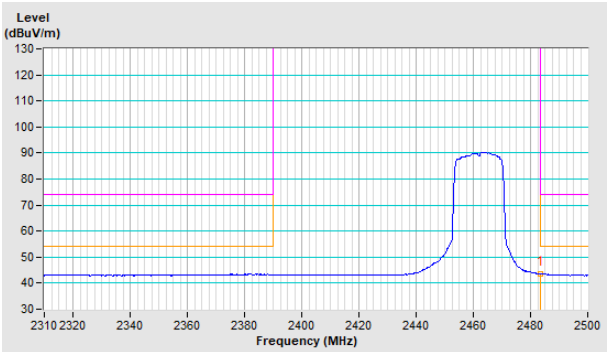



### Channel 11

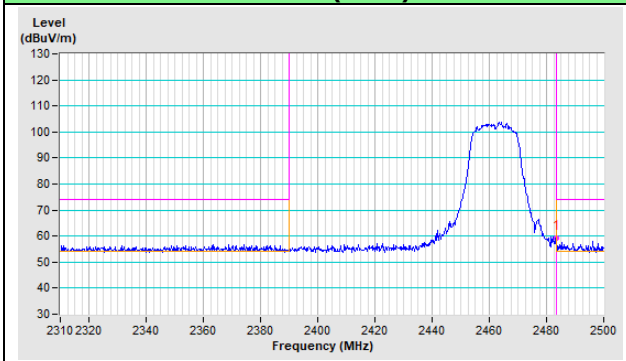
#### Horizontal (Peak)



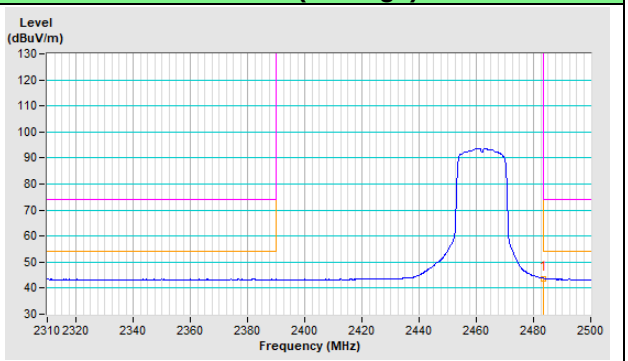

#### Horizontal (Average)




#### Vertical (Peak)

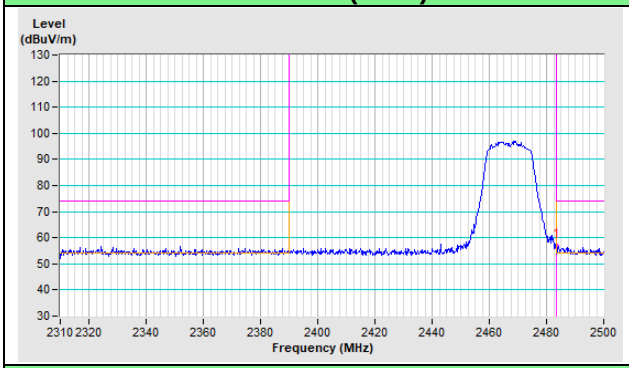



#### Vertical (Average)

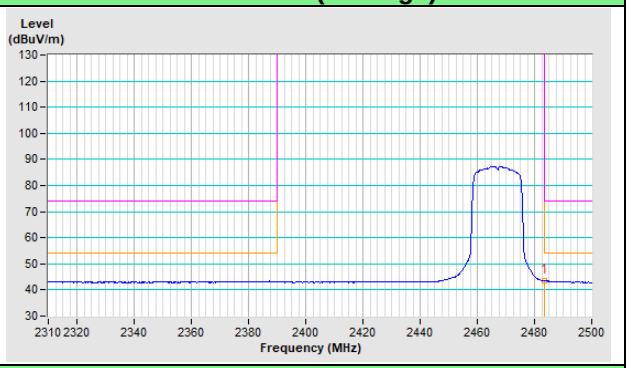


## Channel 12

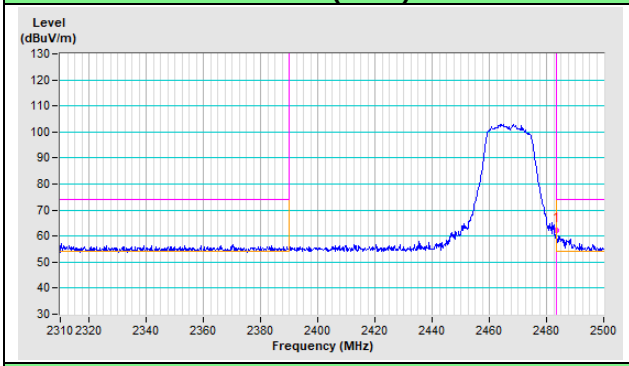
### Horizontal (Peak)



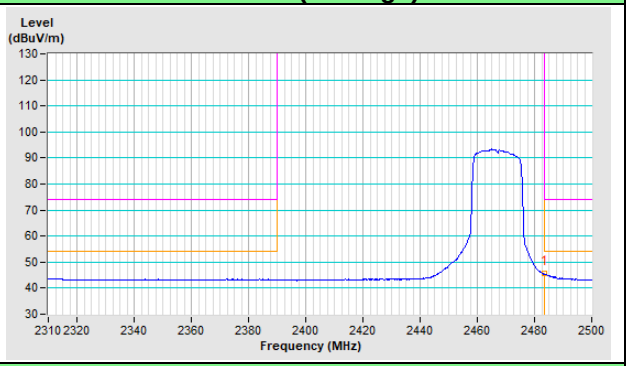

### Horizontal (Average)




### Vertical (Peak)

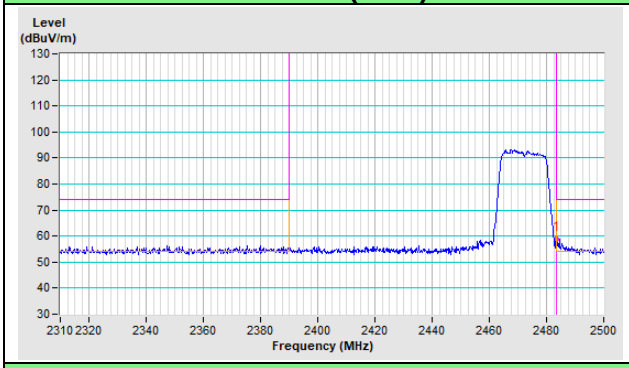



### Vertical (Average)

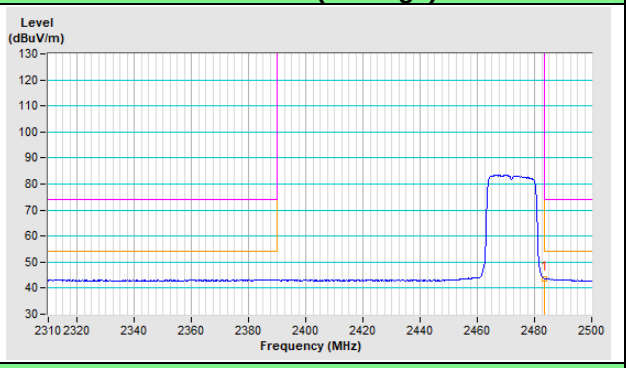



## Channel 13

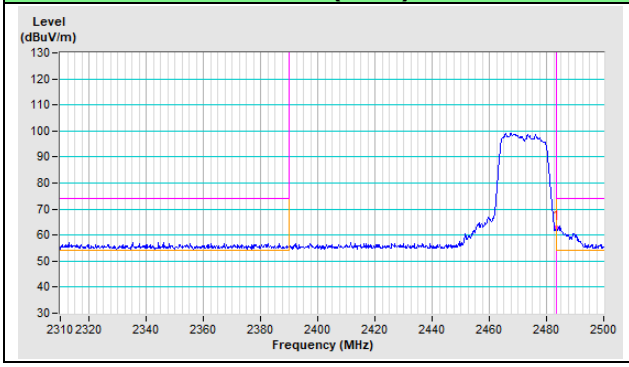
### Horizontal (Peak)



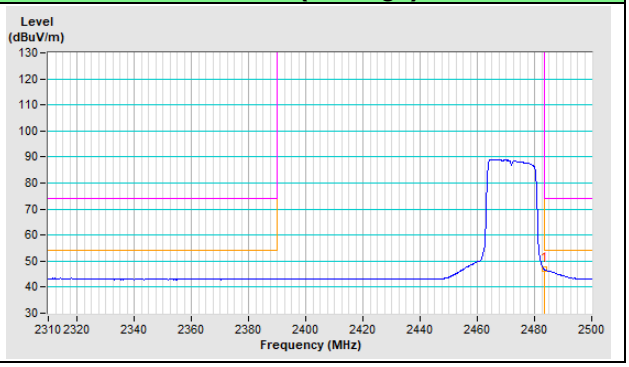

### Horizontal (Average)




### Vertical (Peak)



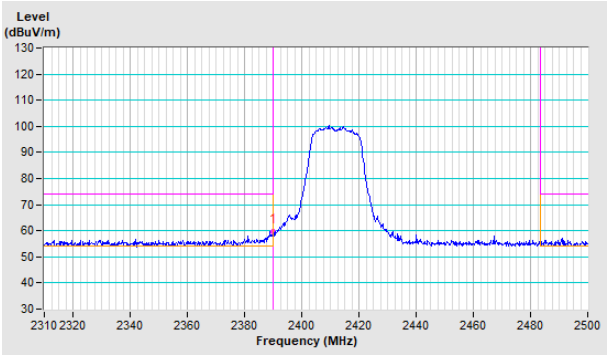

### Vertical (Average)



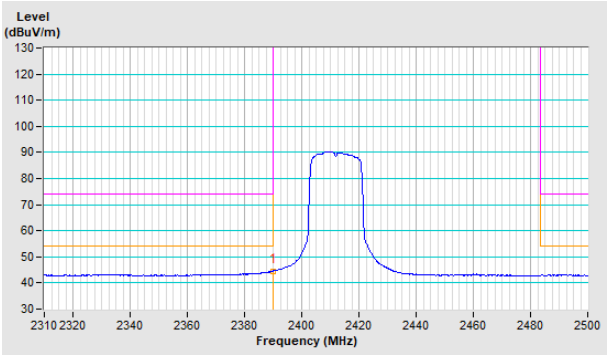
## VHT20

### Channel 1

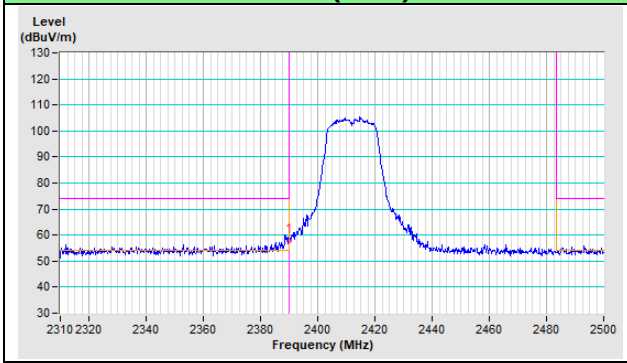
#### Horizontal (Peak)



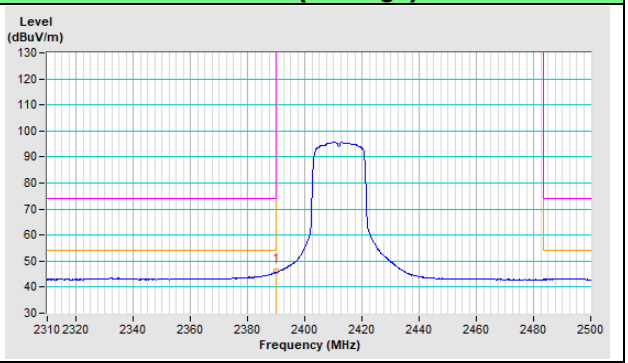

#### Horizontal (Average)




#### Vertical (Peak)

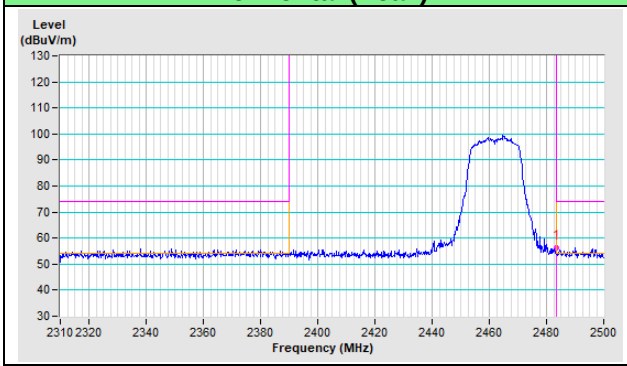



#### Vertical (Average)

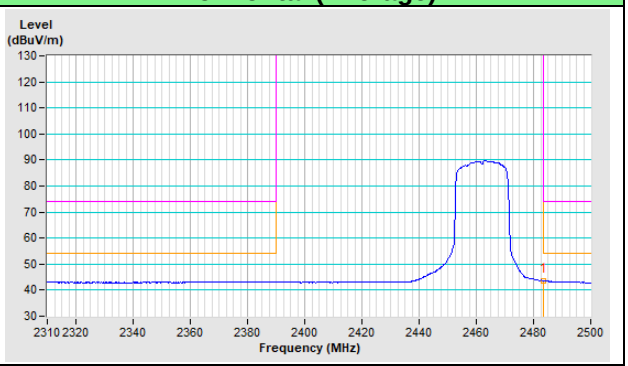



### Channel 11

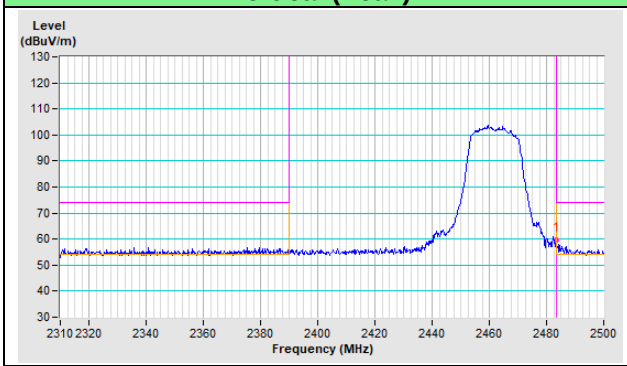
#### Horizontal (Peak)



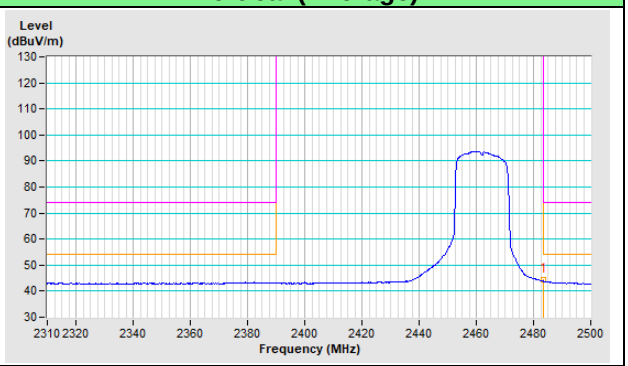

#### Horizontal (Average)




#### Vertical (Peak)

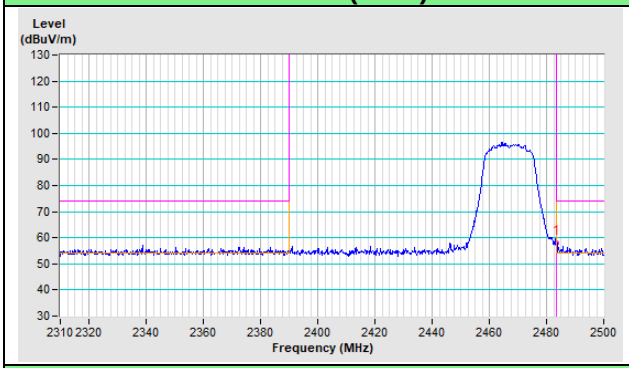



#### Vertical (Average)

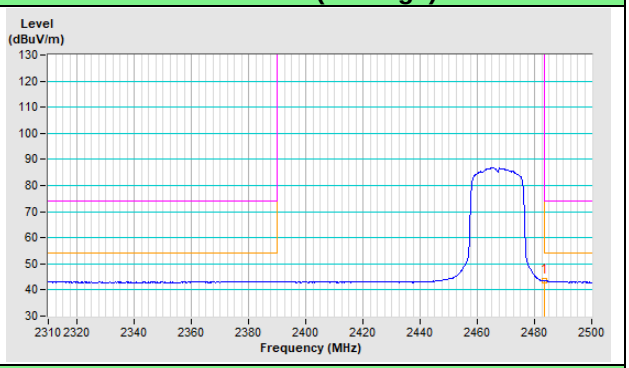


## Channel 12

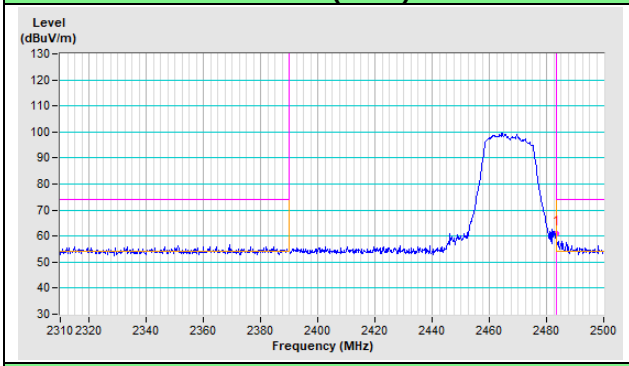
### Horizontal (Peak)



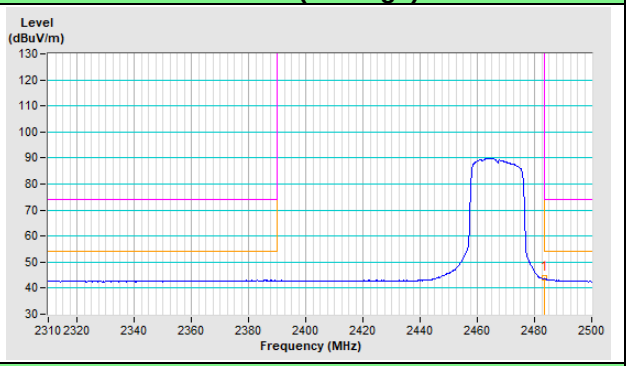

### Horizontal (Average)




### Vertical (Peak)

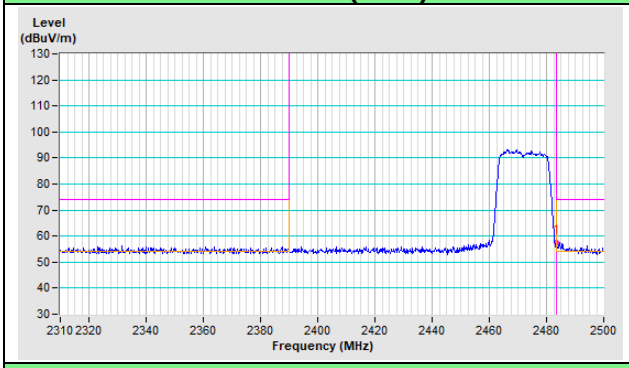



### Vertical (Average)

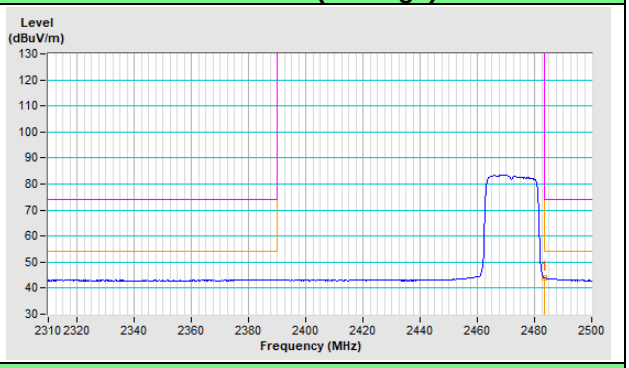



## Channel 13

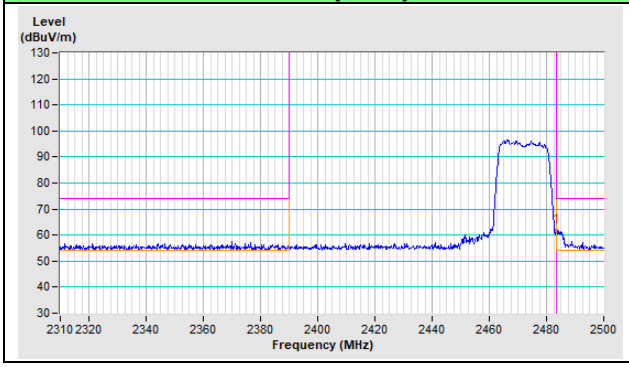
### Horizontal (Peak)



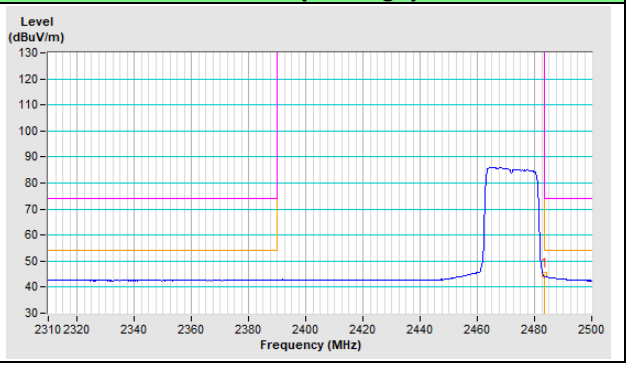

### Horizontal (Average)




### Vertical (Peak)



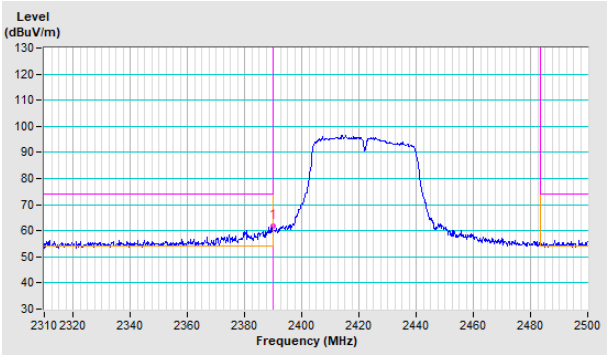

### Vertical (Average)



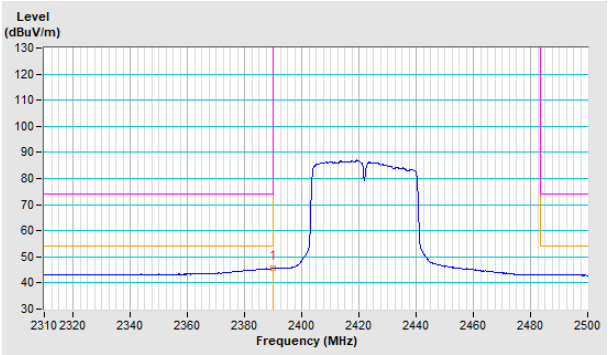
## VHT40

### Channel 3

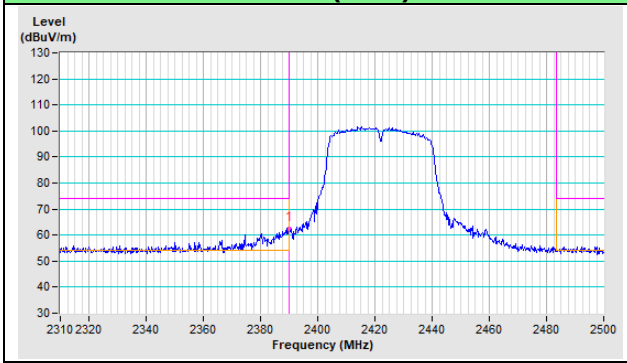
#### Horizontal (Peak)



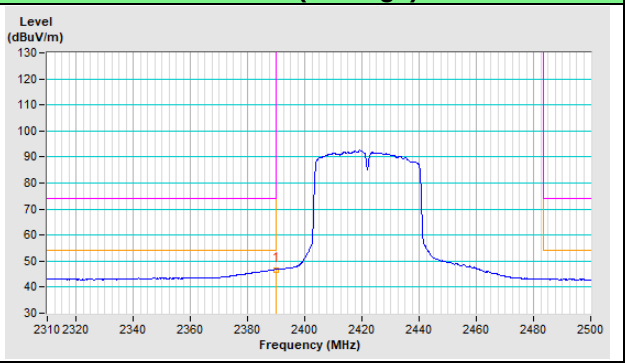

#### Horizontal (Average)




#### Vertical (Peak)

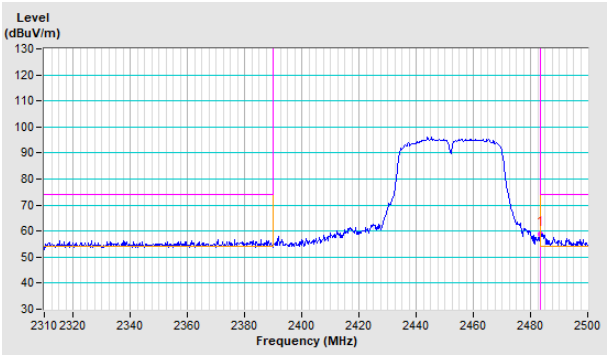



#### Vertical (Average)

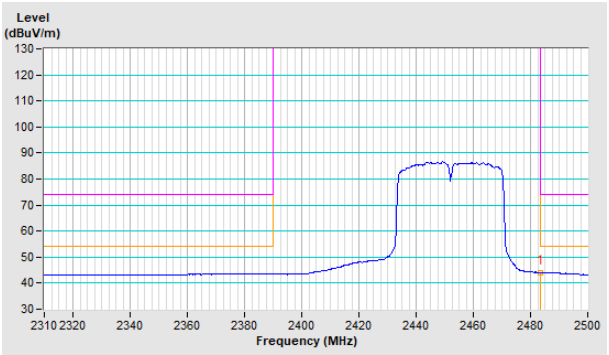



### Channel 9

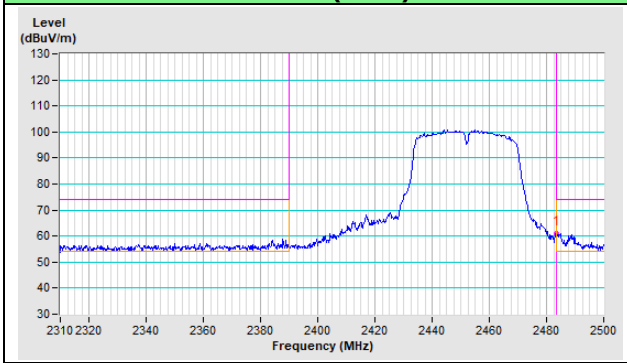
#### Horizontal (Peak)



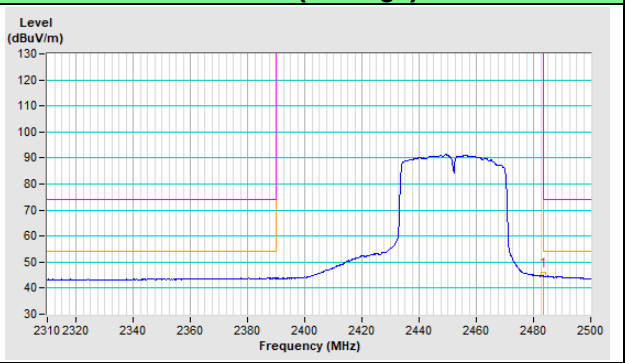

#### Horizontal (Average)

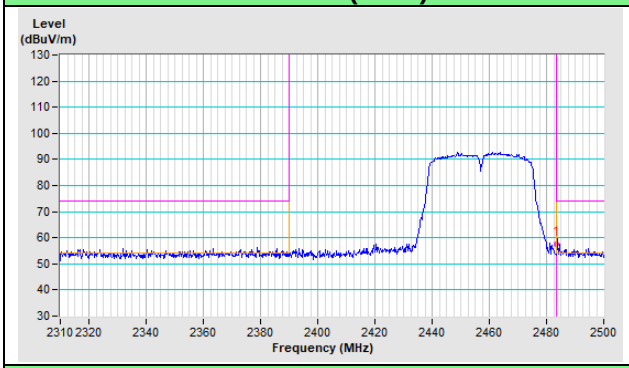
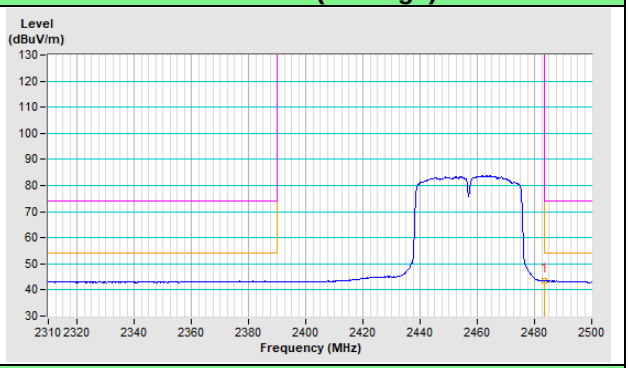
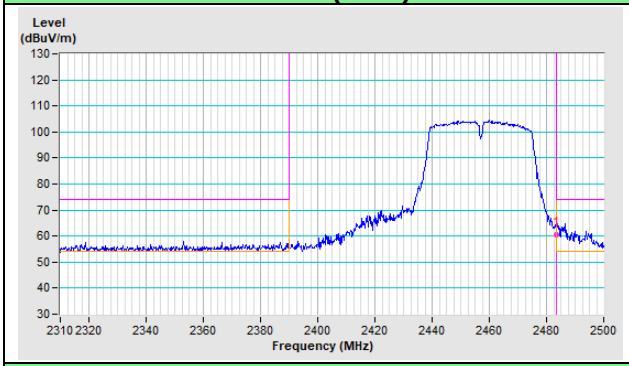
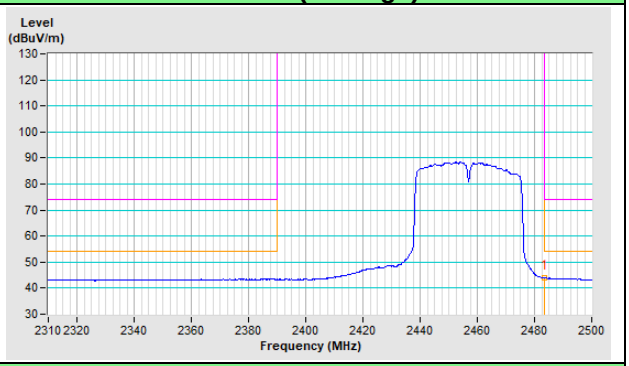
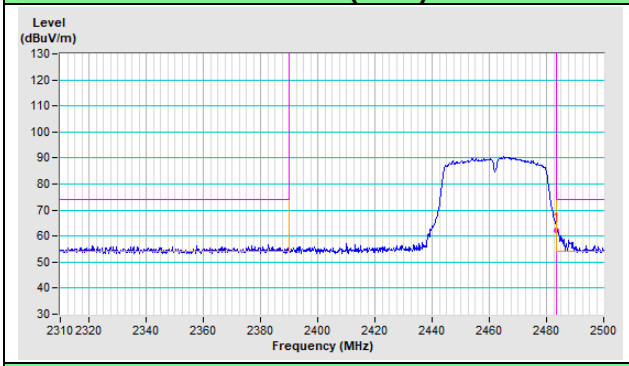
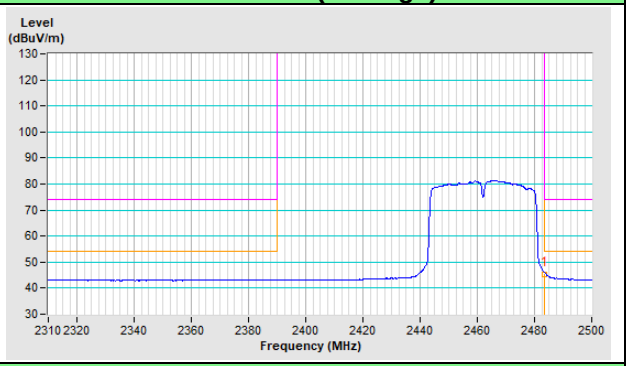
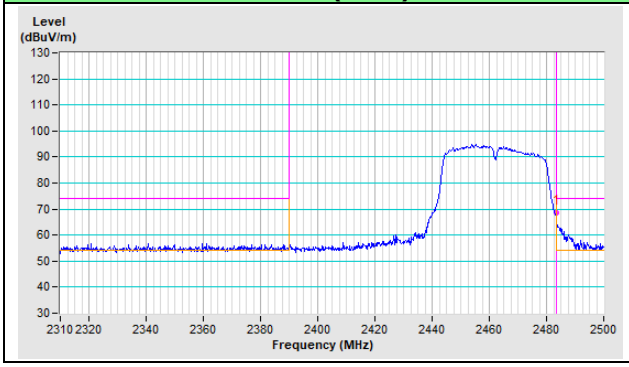
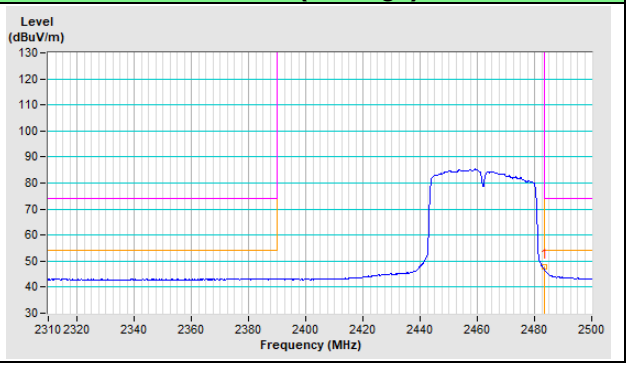



#### Vertical (Peak)




#### Vertical (Average)



| Channel 10 | |
|---|---|
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |
| **Channel 11** | |
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |

**Appendix – Information of the Testing Laboratories**

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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