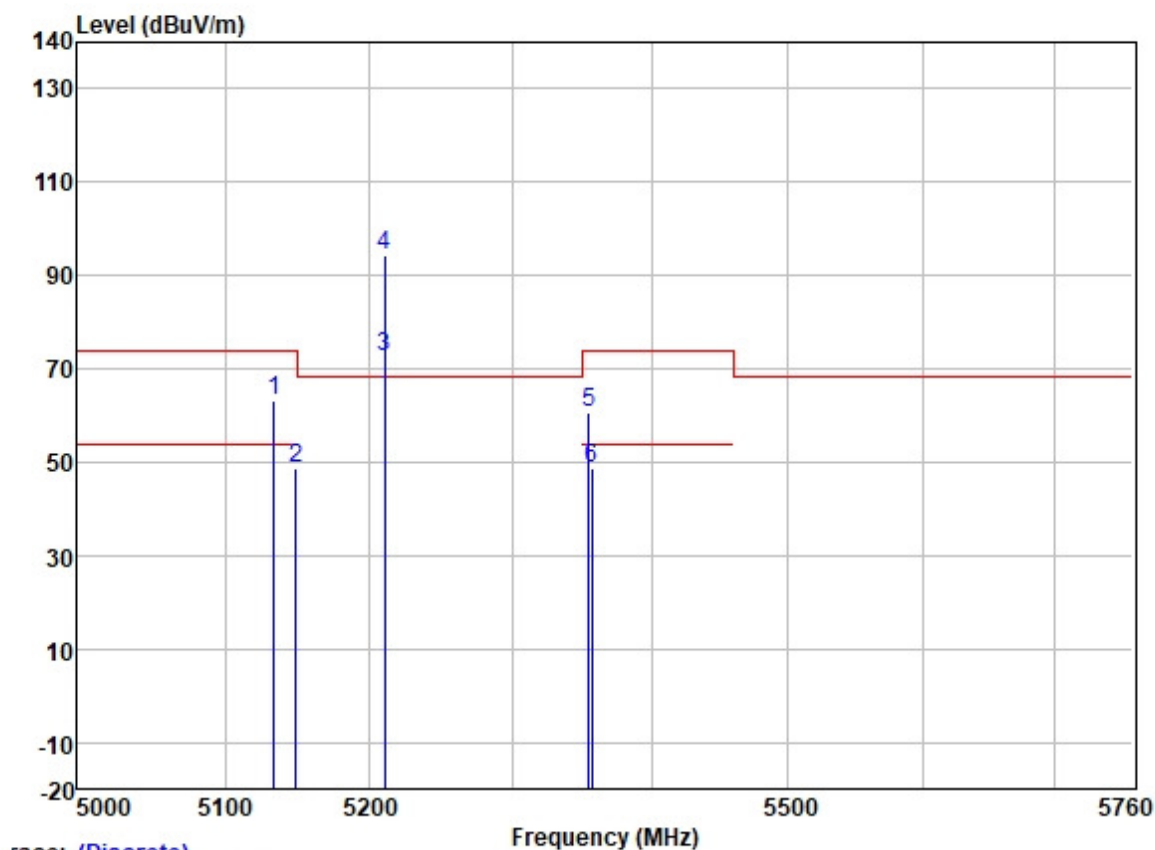
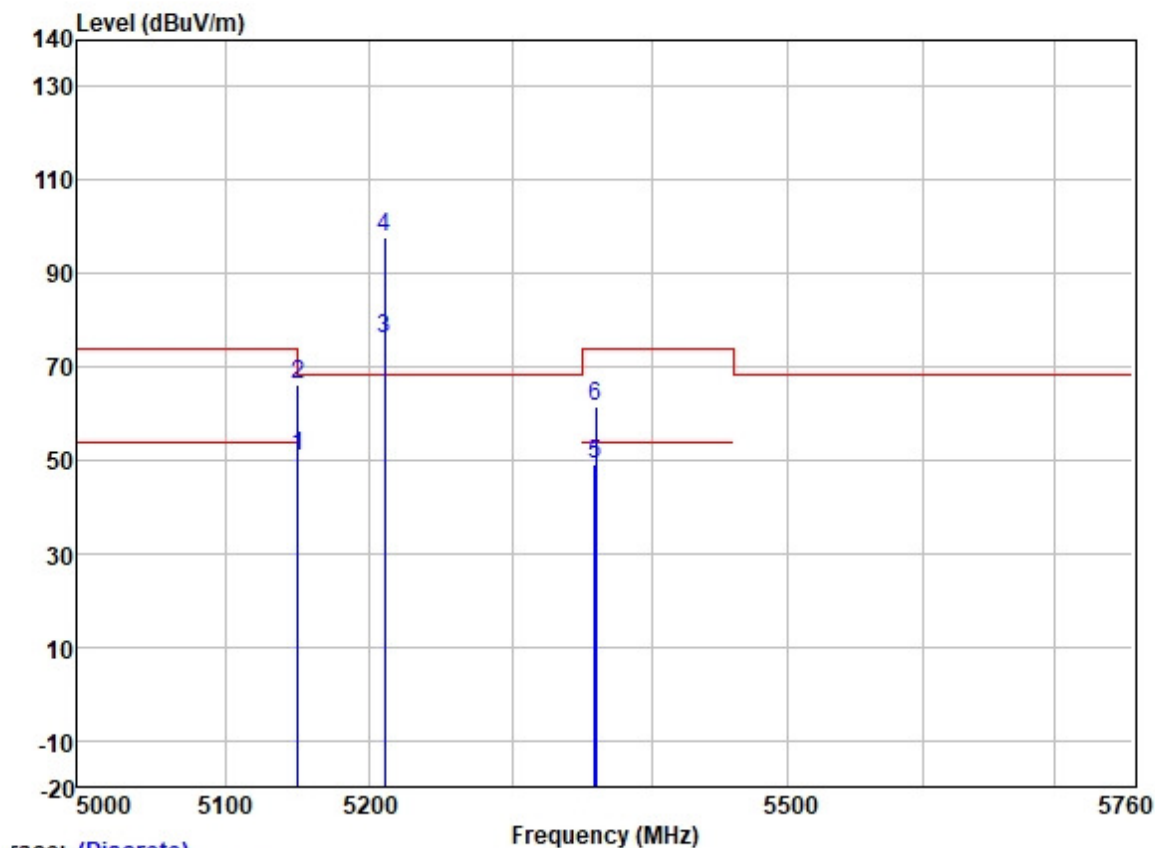


Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



|     | Freq     | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                    |
|-----|----------|-------|---------|-------|--------|--------|--------|-----------|--------------------|
|     | MHz      | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark             |
|     | MHz      | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                    |
| 1   | 5133.329 | 62.80 | 31.72   | 5.63  | 36.86  | 63.29  | 74.00  | -10.71    | HORIZONTAL Peak    |
| 2   | 5148.922 | 48.27 | 31.72   | 5.62  | 36.86  | 48.75  | 54.00  | -5.25     | HORIZONTAL Average |
| 3   | 5210.000 | 72.13 | 31.74   | 5.65  | 36.87  | 72.65  | -----  | -----     | HORIZONTAL Average |
| 4 * | 5210.000 | 93.76 | 31.74   | 5.65  | 36.87  | 94.28  | 68.20  | 26.08     | HORIZONTAL Peak    |
| 5   | 5354.406 | 59.58 | 31.78   | 6.03  | 36.88  | 60.51  | 74.00  | -13.49    | HORIZONTAL Peak    |
| 6   | 5356.803 | 47.90 | 31.78   | 6.03  | 36.88  | 48.83  | 54.00  | -5.17     | HORIZONTAL Average |

Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



race: (Discrete)

|     | Freq     | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |          |
|-----|----------|-------|---------|-------|--------|--------|--------|-----------|----------|
|     | MHz      | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark   |
|     | MHz      | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |          |
| 1   | 5149.690 | 50.24 | 31.72   | 5.62  | 36.86  | 50.72  | 54.00  | -3.28     | VERTICAL |
| 2   | 5149.947 | 65.80 | 31.72   | 5.62  | 36.86  | 66.28  | 74.00  | -7.72     | VERTICAL |
| 3   | 5210.000 | 75.53 | 31.74   | 5.65  | 36.87  | 76.05  | -----  | -----     | VERTICAL |
| 4 * | 5210.000 | 97.21 | 31.74   | 5.65  | 36.87  | 97.73  | 68.20  | 29.53     | VERTICAL |
| 5   | 5359.201 | 48.11 | 31.78   | 6.03  | 36.88  | 49.04  | 54.00  | -4.96     | VERTICAL |
| 6   | 5360.000 | 60.62 | 31.78   | 6.03  | 36.88  | 61.55  | 74.00  | -12.45    | VERTICAL |

### 7.9 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)  
Test Method: ANSI C63.10 (2013) Section 6.8

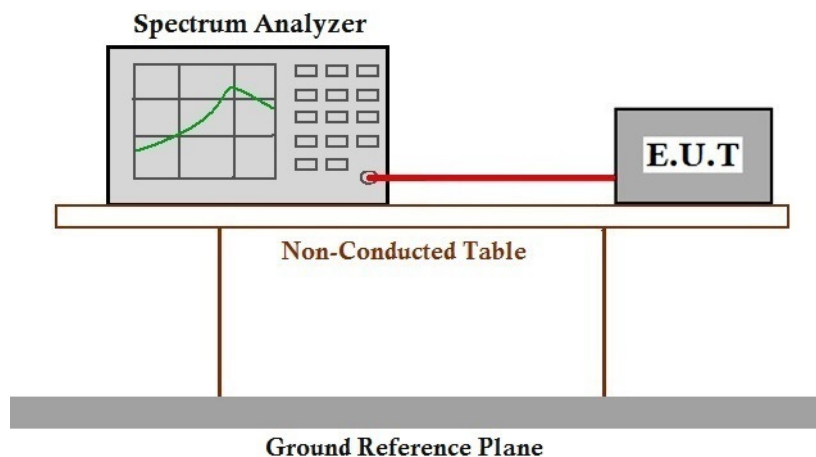
#### 7.9.1 E.U.T. Operation

Operating Environment:  
Temperature: 21.6 °C Humidity: 51.8 % RH Atmospheric Pressure: 1003 mbar

#### 7.9.2 Test Mode Description

| Pre-scan / Mode | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test Code |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Final test 04   | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |

#### 7.9.3 Test Setup Diagram



#### 7.9.4 Measurement Procedure and Data

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) requirements.

**7.10 Radiated Emissions (above 1GHz)**

Test Requirement 47 CFR Part 15, Subpart C 15.209 &amp; 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490    | 2400/F(kHz)                      | 300                          |
| 0.490-1.705    | 24000/F(kHz)                     | 30                           |
| 1.705-30.0     | 30                               | 30                           |
| 30-88          | 100                              | 3                            |
| 88-216         | 150                              | 3                            |
| 216-960        | 200                              | 3                            |
| Above 960      | 500                              | 3                            |

\*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 7.10.1 E.U.T. Operation

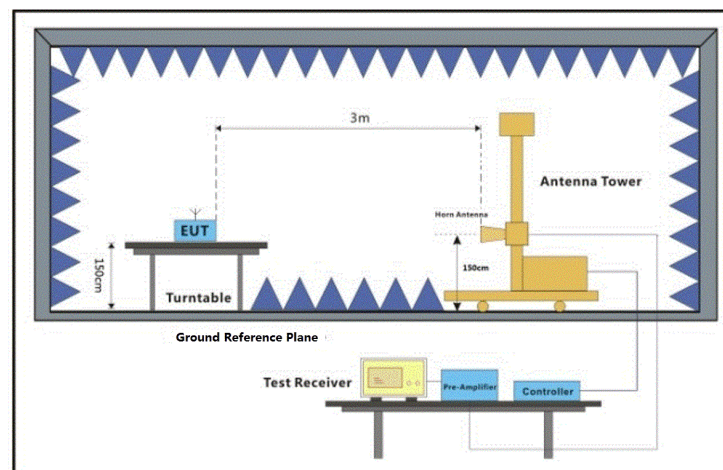
Operating Environment:

Temperature: 22.3 °C Humidity: 51.4 % RH Atmospheric Pressure: 1003 mbar

### 7.10.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test               | 04           | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |

### 7.10.3 Test Setup Diagram



**7.10.4 Measurement Procedure and Data**

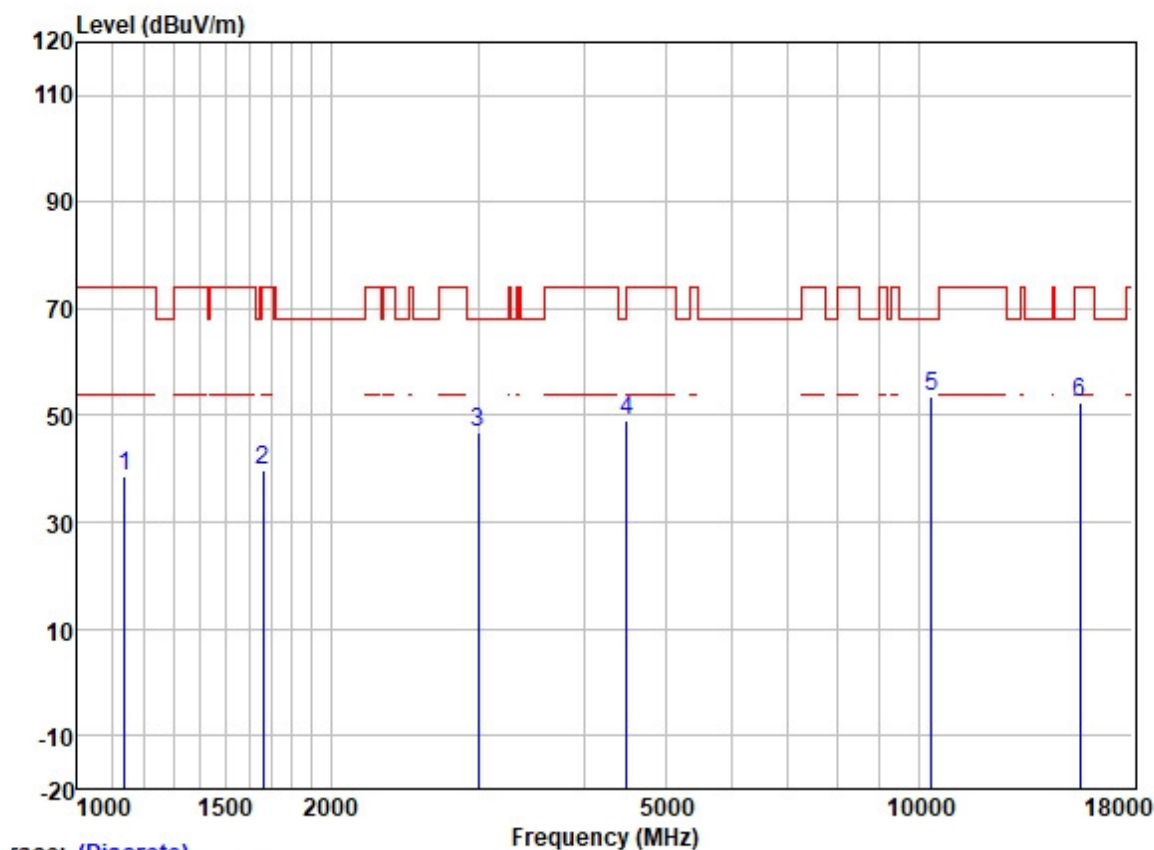
- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

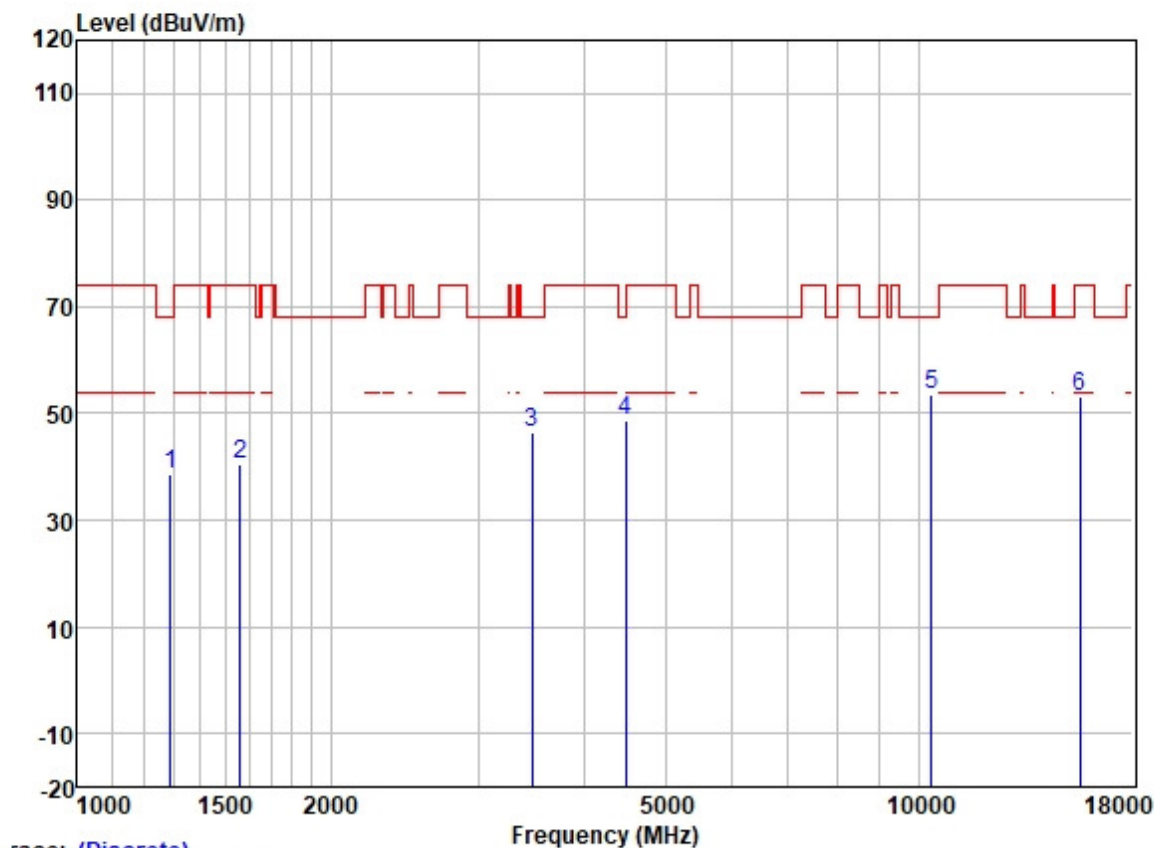


Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



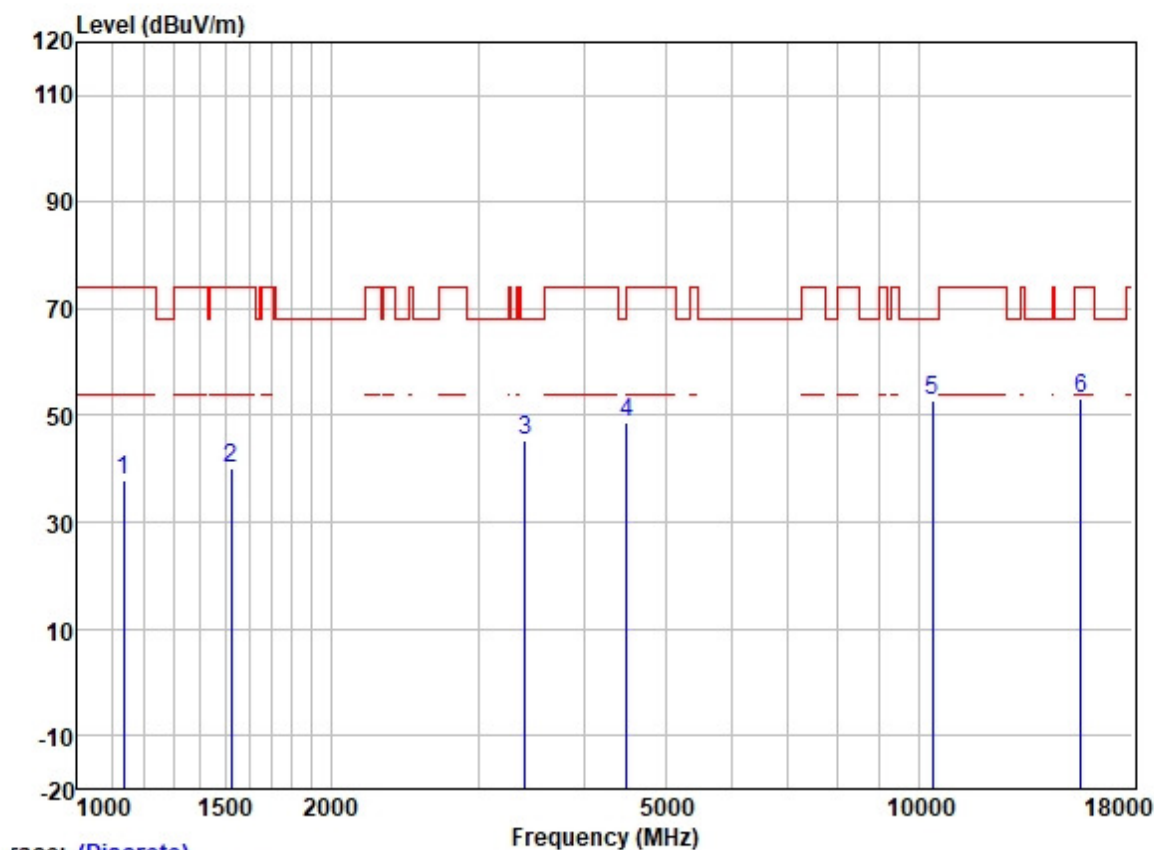
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1138.904  | 50.45       | 24.46  | 2.27  | 38.42  | 38.76  | 74.00  | -35.24 | HORIZONTAL | Peak   |
| 2 | 1663.137  | 49.18       | 25.65  | 2.80  | 37.91  | 39.72  | 74.00  | -34.28 | HORIZONTAL | Peak   |
| 3 | 2999.187  | 51.96       | 28.40  | 3.80  | 37.25  | 46.91  | 68.20  | -21.29 | HORIZONTAL | Peak   |
| 4 | 4495.125  | 49.91       | 30.80  | 5.05  | 36.82  | 48.94  | 68.20  | -19.26 | HORIZONTAL | Peak   |
| 5 | 10360.000 | 44.20       | 39.28  | 7.29  | 37.37  | 53.40  | 68.20  | -14.80 | HORIZONTAL | Peak   |
| 6 | 15540.000 | 39.00       | 39.05  | 9.88  | 35.39  | 52.54  | 74.00  | -21.46 | HORIZONTAL | Peak   |

Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



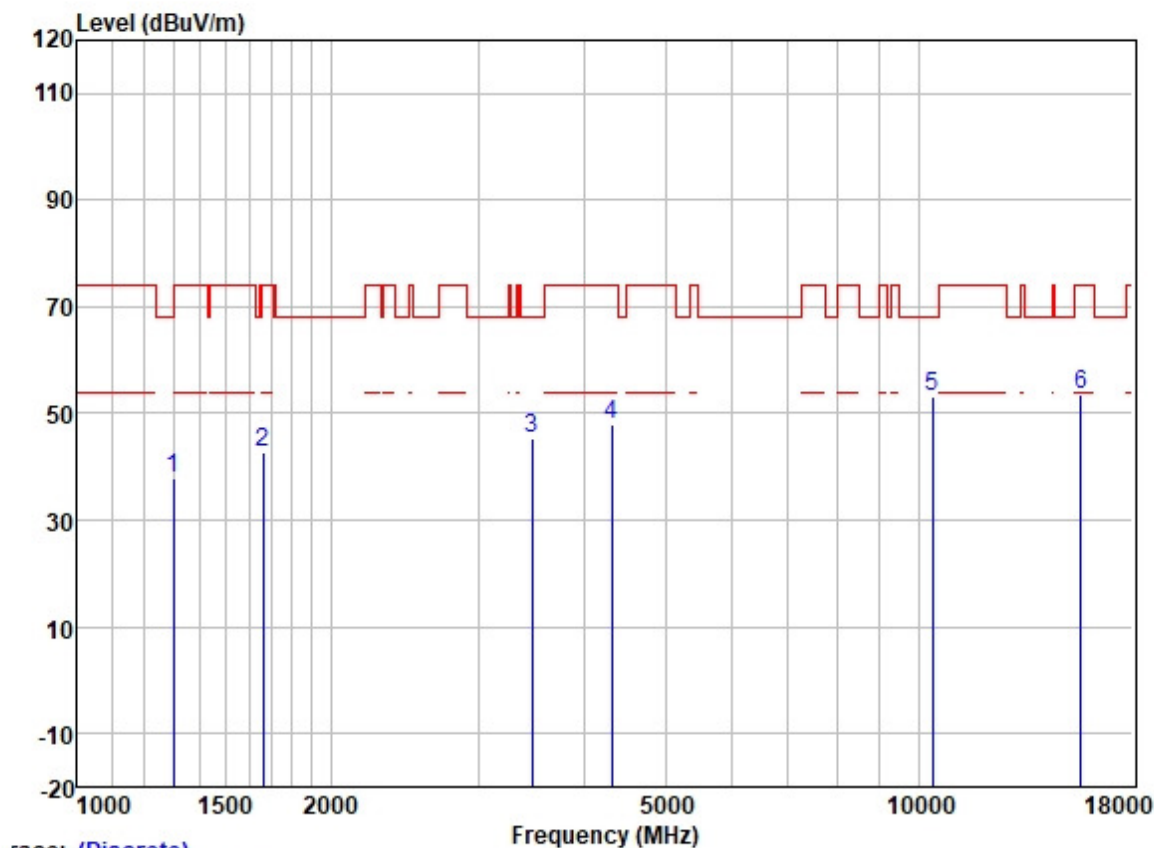
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1289.627  | 49.27       | 25.17  | 2.55  | 38.31  | 38.68  | 68.20  | -29.52 | VERTICAL  | Peak   |
| 2 | 1560.673  | 50.14       | 25.54  | 2.80  | 38.03  | 40.45  | 74.00  | -33.55 | VERTICAL  | Peak   |
| 3 | 3475.541  | 50.39       | 28.89  | 4.25  | 36.95  | 46.58  | 68.20  | -21.62 | VERTICAL  | Peak   |
| 4 | 4482.150  | 49.80       | 30.78  | 4.99  | 36.81  | 48.76  | 68.20  | -19.44 | VERTICAL  | Peak   |
| 5 | 10360.000 | 44.47       | 39.28  | 7.29  | 37.37  | 53.67  | 68.20  | -14.53 | VERTICAL  | Peak   |
| 6 | 15540.000 | 39.57       | 39.05  | 9.88  | 35.39  | 53.11  | 74.00  | -20.89 | VERTICAL  | Peak   |

Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



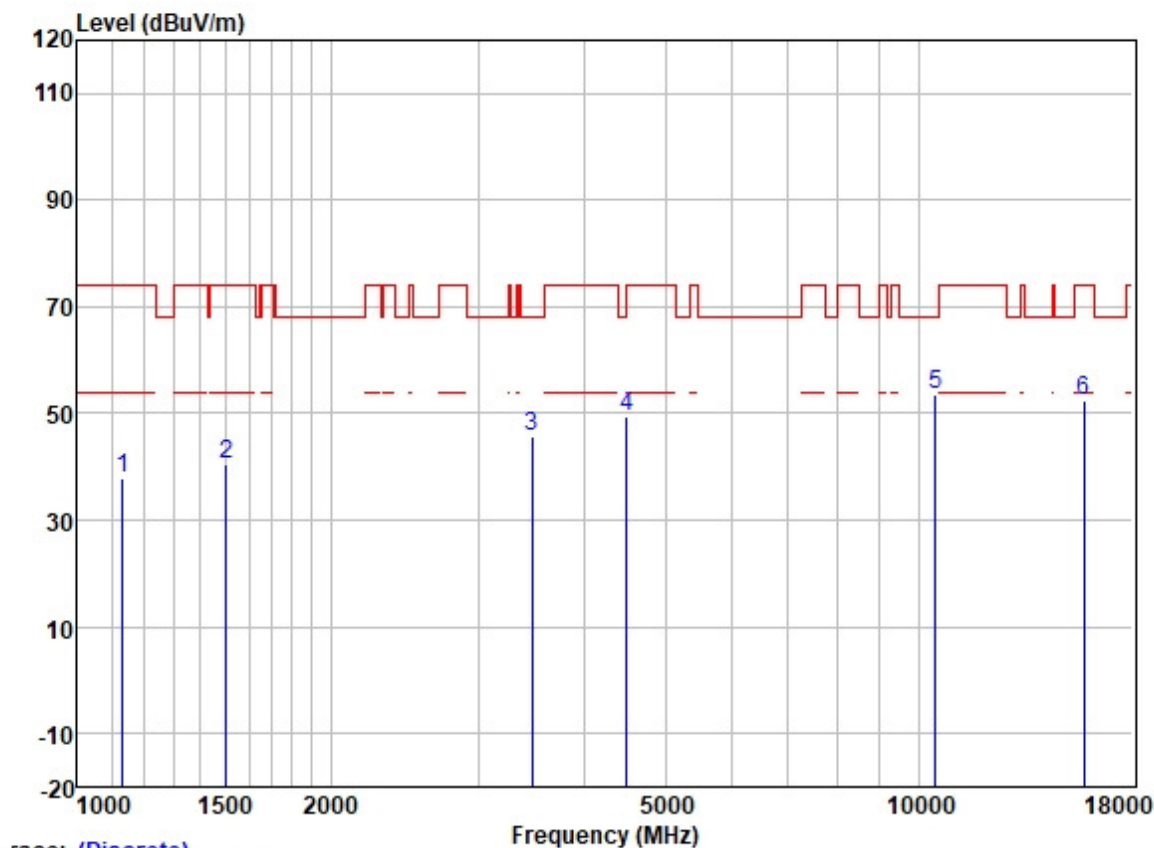
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1135.617  | 49.61       | 24.45  | 2.25  | 38.43  | 37.88  | 74.00  | -36.12 | HORIZONTAL | Peak   |
| 2 | 1525.000  | 49.87       | 25.52  | 2.80  | 38.07  | 40.12  | 74.00  | -33.88 | HORIZONTAL | Peak   |
| 3 | 3405.929  | 49.21       | 28.85  | 4.11  | 36.98  | 45.19  | 68.20  | -23.01 | HORIZONTAL | Peak   |
| 4 | 4495.125  | 49.69       | 30.80  | 5.05  | 36.82  | 48.72  | 68.20  | -19.48 | HORIZONTAL | Peak   |
| 5 | 10400.000 | 43.68       | 39.33  | 7.32  | 37.36  | 52.97  | 68.20  | -15.23 | HORIZONTAL | Peak   |
| 6 | 15600.000 | 39.86       | 38.99  | 9.88  | 35.39  | 53.34  | 74.00  | -20.66 | HORIZONTAL | Peak   |

Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



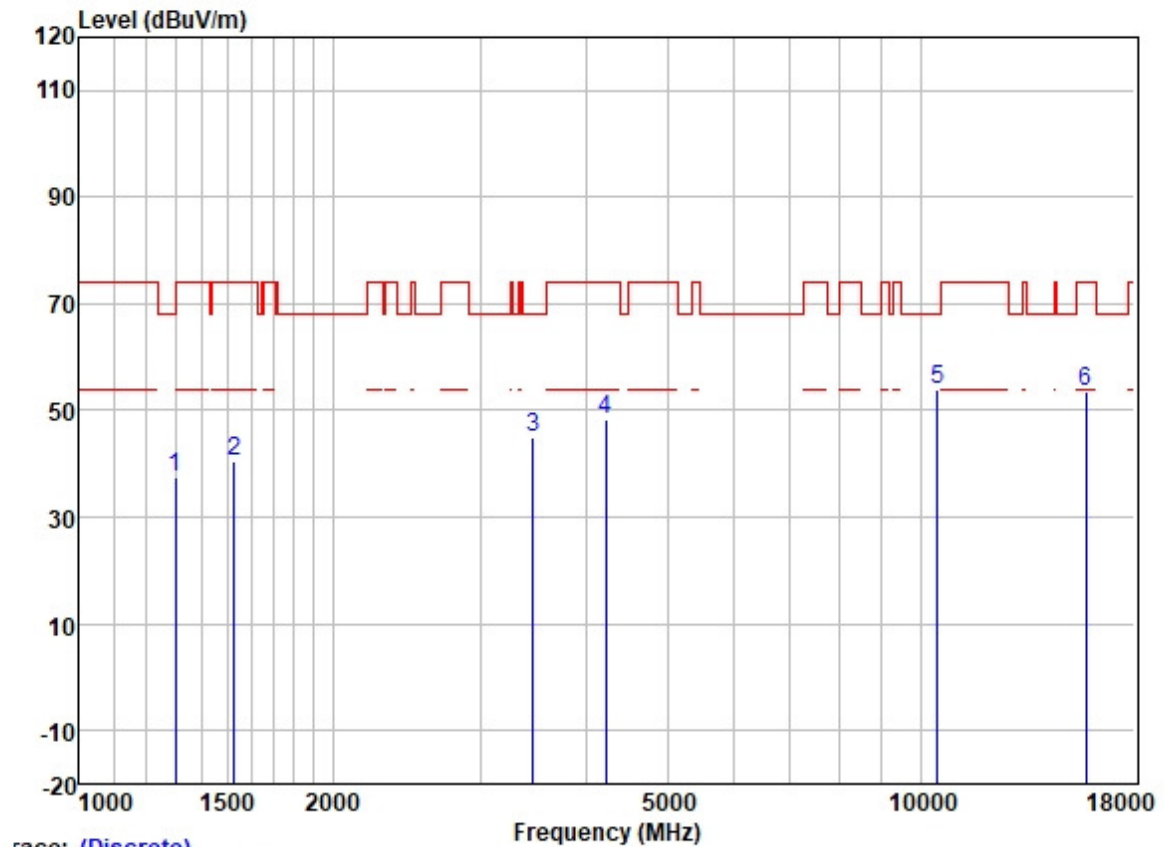
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1300.858  | 48.54       | 25.20  | 2.60  | 38.31  | 38.03  | 74.00  | -35.97 | VERTICAL  | Peak   |
| 2 | 1663.137  | 52.24       | 25.65  | 2.80  | 37.91  | 42.78  | 74.00  | -31.22 | VERTICAL  | Peak   |
| 3 | 3475.541  | 49.09       | 28.89  | 4.25  | 36.95  | 45.28  | 68.20  | -22.92 | VERTICAL  | Peak   |
| 4 | 4316.859  | 49.62       | 30.51  | 4.66  | 36.81  | 47.98  | 74.00  | -26.02 | VERTICAL  | Peak   |
| 5 | 10400.000 | 43.71       | 39.33  | 7.32  | 37.36  | 53.00  | 68.20  | -15.20 | VERTICAL  | Peak   |
| 6 | 15600.000 | 40.06       | 38.99  | 9.88  | 35.39  | 53.54  | 74.00  | -20.46 | VERTICAL  | Peak   |

Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



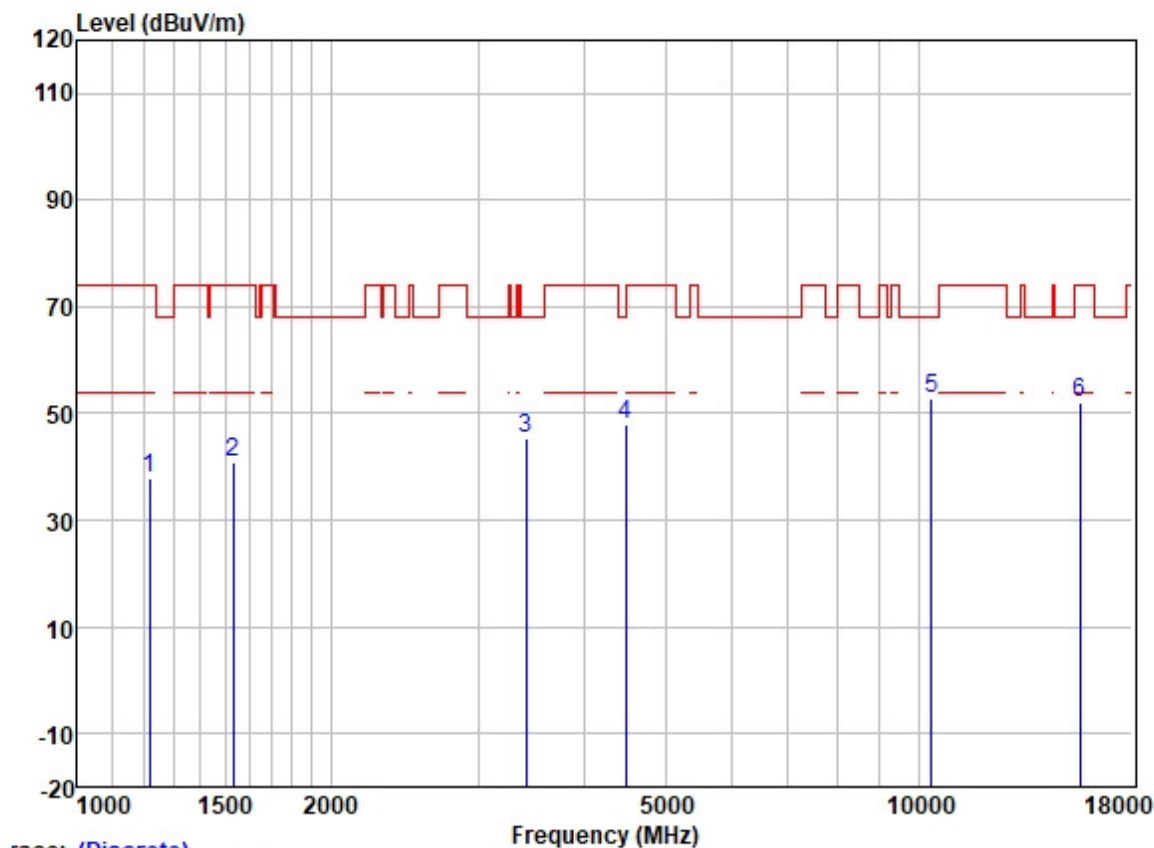
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1132.340  | 49.75       | 24.44  | 2.22  | 38.43  | 37.98  | 74.00  | -36.02 | HORIZONTAL | Peak   |
| 2 | 1503.119  | 50.41       | 25.50  | 2.80  | 38.10  | 40.61  | 74.00  | -33.39 | HORIZONTAL | Peak   |
| 3 | 3475.541  | 49.52       | 28.89  | 4.25  | 36.95  | 45.71  | 68.20  | -22.49 | HORIZONTAL | Peak   |
| 4 | 4495.125  | 50.36       | 30.80  | 5.05  | 36.82  | 49.39  | 68.20  | -18.81 | HORIZONTAL | Peak   |
| 5 | 10480.000 | 43.86       | 39.46  | 7.40  | 37.36  | 53.36  | 68.20  | -14.84 | HORIZONTAL | Peak   |
| 6 | 15720.000 | 39.35       | 38.78  | 9.87  | 35.39  | 52.61  | 74.00  | -21.39 | HORIZONTAL | Peak   |

Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



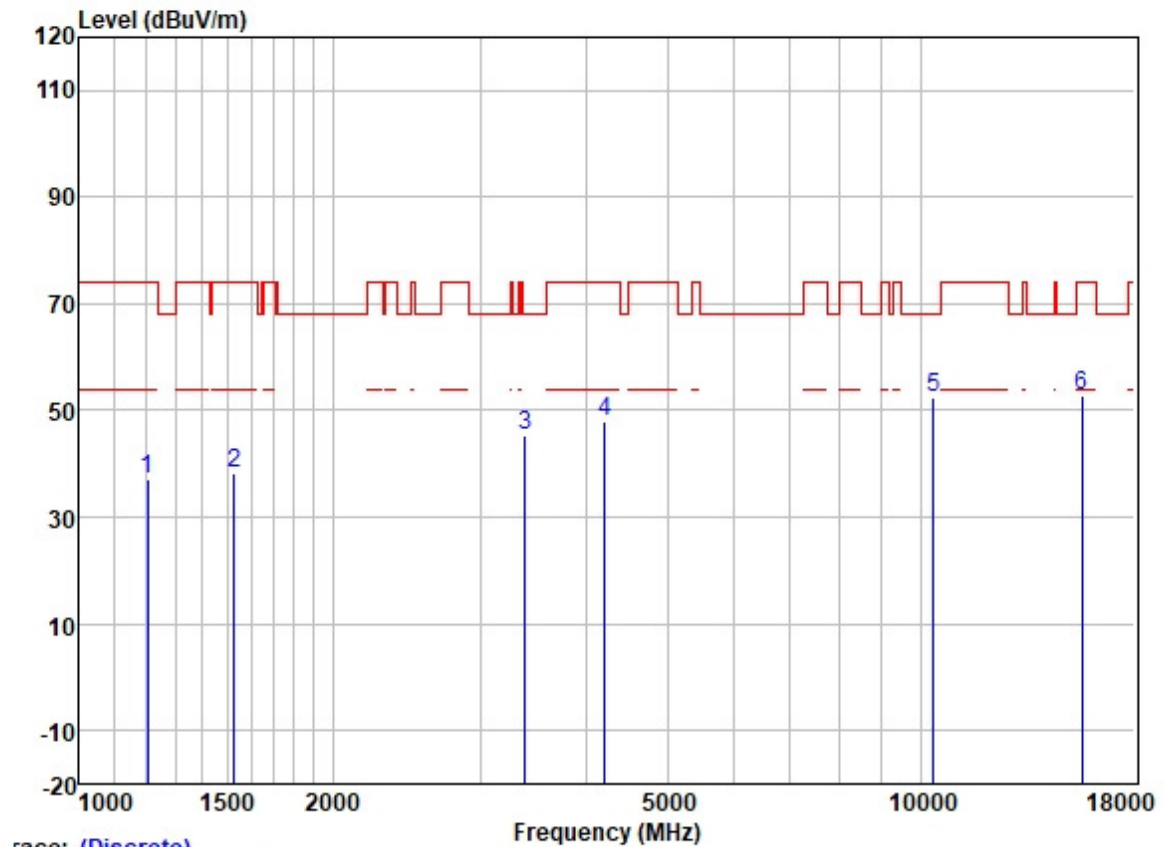
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1300.858  | 47.98       | 25.20  | 2.60  | 38.31  | 37.47  | 74.00  | -36.53 | VERTICAL  | Peak   |
| 2 | 1529.414  | 50.36       | 25.52  | 2.80  | 38.07  | 40.61  | 74.00  | -33.39 | VERTICAL  | Peak   |
| 3 | 3465.510  | 48.91       | 28.88  | 4.22  | 36.95  | 45.06  | 68.20  | -23.14 | VERTICAL  | Peak   |
| 4 | 4230.396  | 50.18       | 30.26  | 4.61  | 36.81  | 48.24  | 74.00  | -25.76 | VERTICAL  | Peak   |
| 5 | 10480.000 | 44.54       | 39.46  | 7.40  | 37.36  | 54.04  | 68.20  | -14.16 | VERTICAL  | Peak   |
| 6 | 15720.000 | 40.12       | 38.78  | 9.87  | 35.39  | 53.38  | 74.00  | -20.62 | VERTICAL  | Peak   |

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



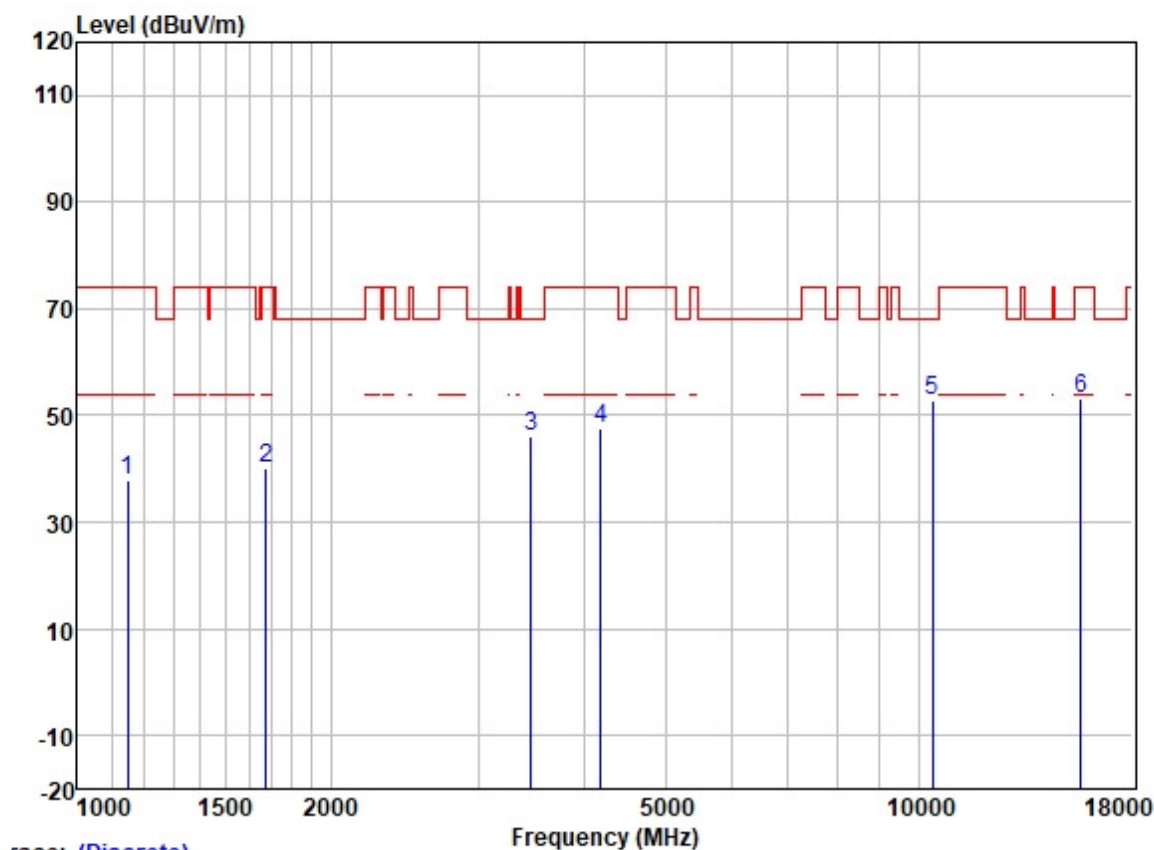
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1217.190  | 48.95       | 24.79  | 2.32  | 38.37  | 37.69  | 74.00  | -36.31 | HORIZONTAL | Peak   |
| 2 | 1533.841  | 50.42       | 25.52  | 2.80  | 38.07  | 40.67  | 74.00  | -33.33 | HORIZONTAL | Peak   |
| 3 | 3415.787  | 49.31       | 28.85  | 4.13  | 36.97  | 45.32  | 68.20  | -22.88 | HORIZONTAL | Peak   |
| 4 | 4482.150  | 48.92       | 30.78  | 4.99  | 36.81  | 47.88  | 68.20  | -20.32 | HORIZONTAL | Peak   |
| 5 | 10360.000 | 43.47       | 39.28  | 7.29  | 37.37  | 52.67  | 68.20  | -15.53 | HORIZONTAL | Peak   |
| 6 | 15540.000 | 38.67       | 39.05  | 9.88  | 35.39  | 52.21  | 74.00  | -21.79 | HORIZONTAL | Peak   |

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



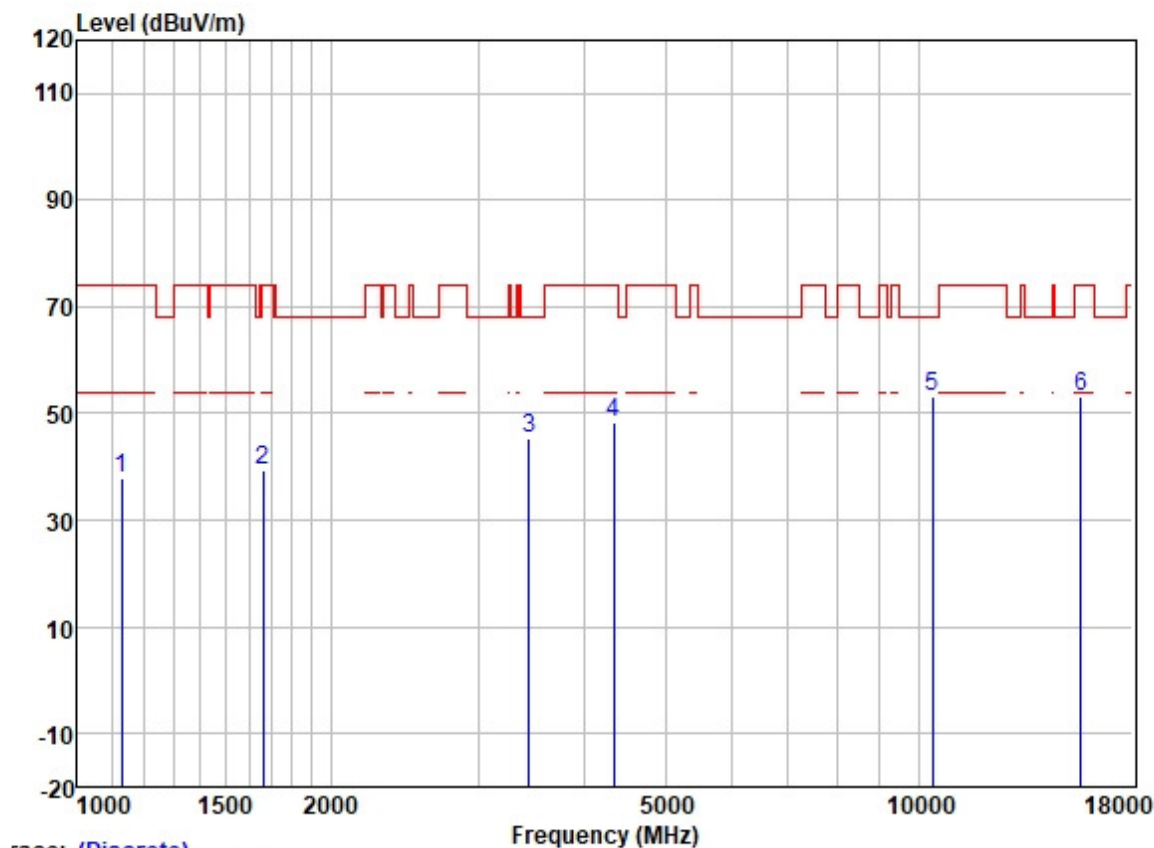
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1206.682  | 48.58       | 24.72  | 2.33  | 38.39  | 37.24  | 74.00  | -36.76 | VERTICAL  | Peak   |
| 2 | 1529.414  | 48.15       | 25.52  | 2.80  | 38.07  | 38.40  | 74.00  | -35.60 | VERTICAL  | Peak   |
| 3 | 3386.297  | 49.37       | 28.83  | 4.10  | 36.99  | 45.31  | 68.20  | -22.89 | VERTICAL  | Peak   |
| 4 | 4218.186  | 49.80       | 30.22  | 4.60  | 36.81  | 47.81  | 74.00  | -26.19 | VERTICAL  | Peak   |
| 5 | 10360.000 | 43.26       | 39.28  | 7.29  | 37.37  | 52.46  | 68.20  | -15.74 | VERTICAL  | Peak   |
| 6 | 15540.000 | 39.43       | 39.05  | 9.88  | 35.39  | 52.97  | 74.00  | -21.03 | VERTICAL  | Peak   |

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



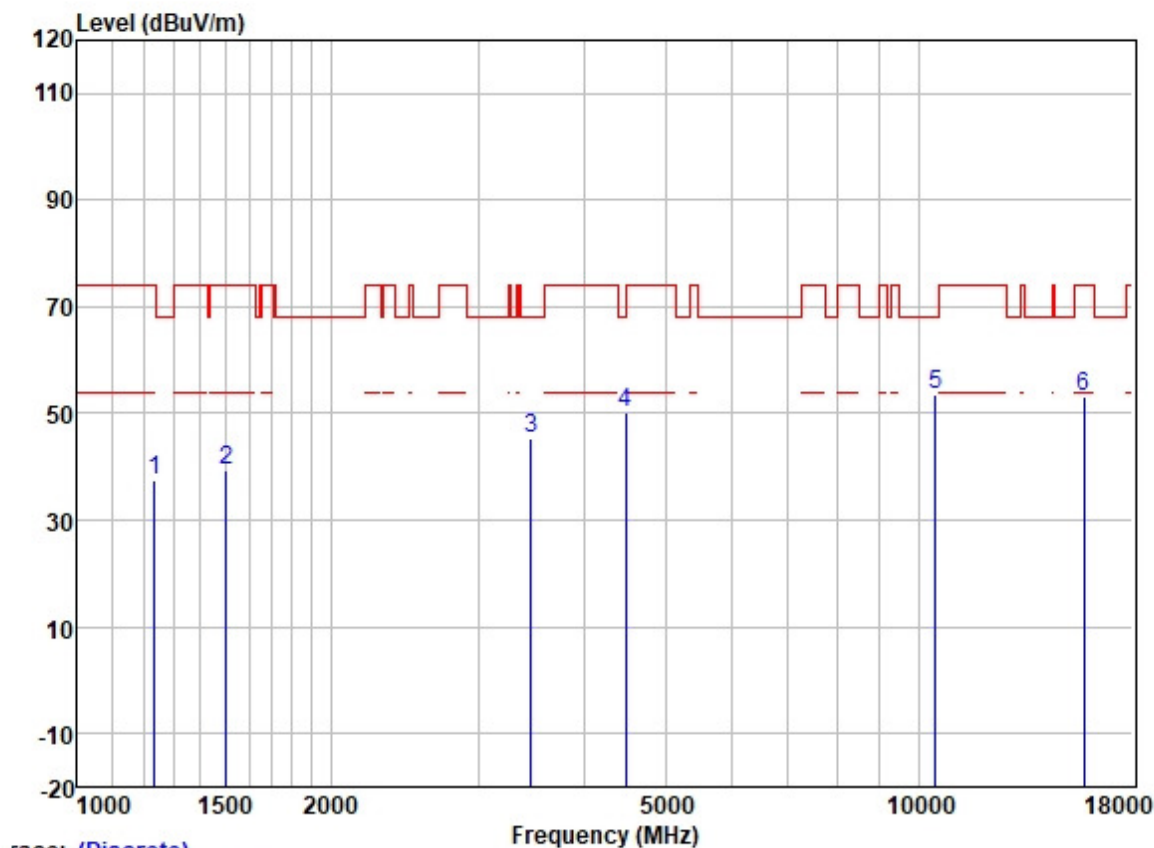
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1148.823  | 49.61       | 24.49  | 2.34  | 38.42  | 38.02  | 74.00  | -35.98 | HORIZONTAL | Peak   |
| 2 | 1677.621  | 49.57       | 25.68  | 2.80  | 37.91  | 40.14  | 74.00  | -33.86 | HORIZONTAL | Peak   |
| 3 | 3465.510  | 49.81       | 28.88  | 4.22  | 36.95  | 45.96  | 68.20  | -22.24 | HORIZONTAL | Peak   |
| 4 | 4193.872  | 49.59       | 30.15  | 4.60  | 36.81  | 47.53  | 74.00  | -26.47 | HORIZONTAL | Peak   |
| 5 | 10400.000 | 43.68       | 39.33  | 7.32  | 37.36  | 52.97  | 68.20  | -15.23 | HORIZONTAL | Peak   |
| 6 | 15600.000 | 39.81       | 38.99  | 9.88  | 35.39  | 53.29  | 74.00  | -20.71 | HORIZONTAL | Peak   |

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



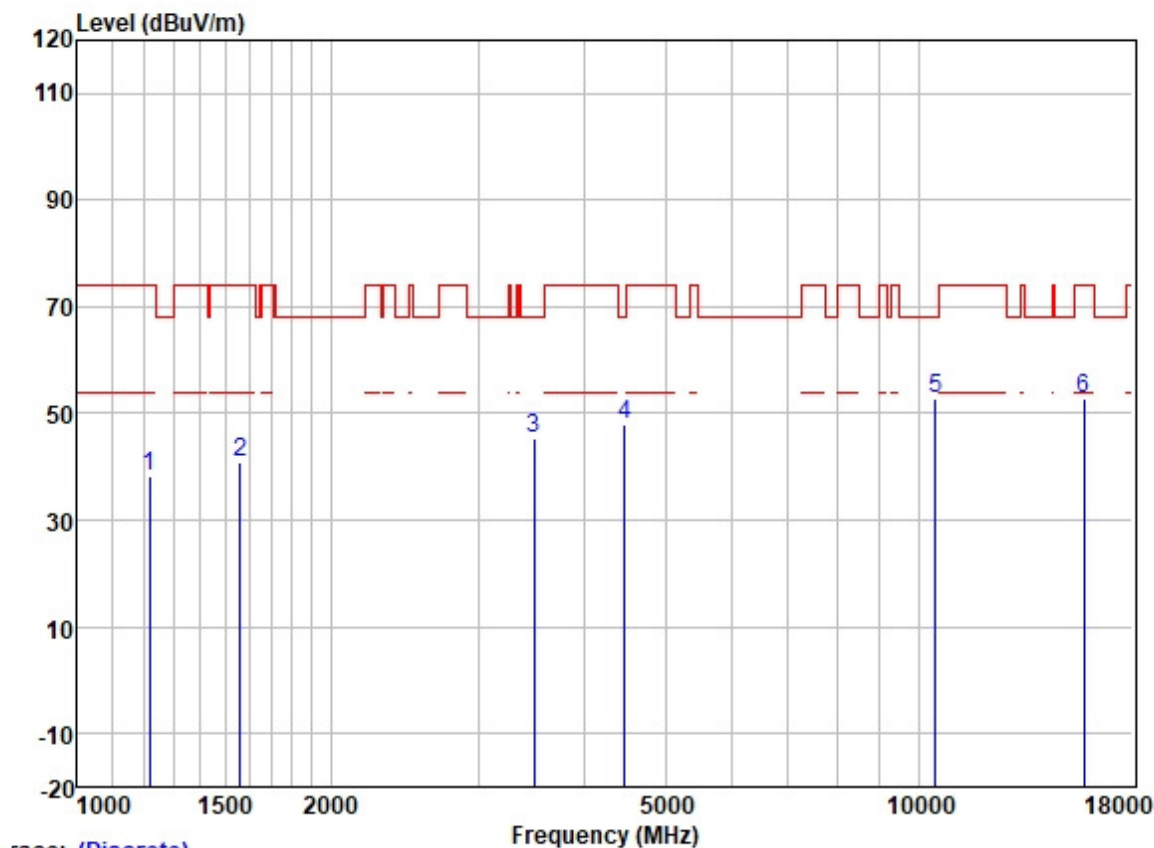
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1129.072  | 49.59       | 24.43  | 2.20  | 38.43  | 37.79  | 74.00  | -36.21 | VERTICAL  | Peak   |
| 2 | 1663.137  | 48.94       | 25.65  | 2.80  | 37.91  | 39.48  | 74.00  | -34.52 | VERTICAL  | Peak   |
| 3 | 3445.535  | 49.32       | 28.87  | 4.18  | 36.96  | 45.41  | 68.20  | -22.79 | VERTICAL  | Peak   |
| 4 | 4341.886  | 49.91       | 30.57  | 4.67  | 36.81  | 48.34  | 74.00  | -25.66 | VERTICAL  | Peak   |
| 5 | 10400.000 | 43.96       | 39.33  | 7.32  | 37.36  | 53.25  | 68.20  | -14.95 | VERTICAL  | Peak   |
| 6 | 15600.000 | 39.67       | 38.99  | 9.88  | 35.39  | 53.15  | 74.00  | -20.85 | VERTICAL  | Peak   |

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



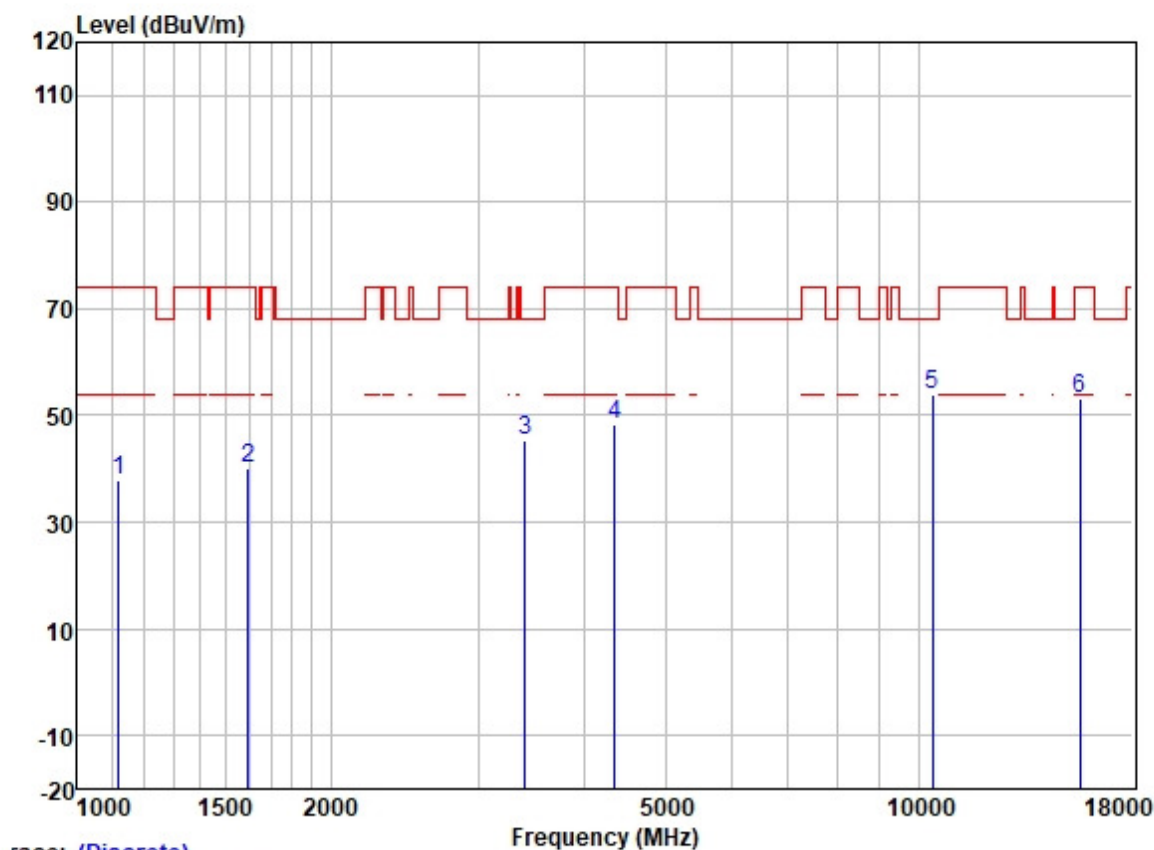
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1234.909  | 48.61       | 24.93  | 2.30  | 38.37  | 37.47  | 74.00  | -36.53 | HORIZONTAL | Peak   |
| 2 | 1503.119  | 49.27       | 25.50  | 2.80  | 38.10  | 39.47  | 74.00  | -34.53 | HORIZONTAL | Peak   |
| 3 | 3465.510  | 49.09       | 28.88  | 4.22  | 36.95  | 45.24  | 68.20  | -22.96 | HORIZONTAL | Peak   |
| 4 | 4482.150  | 51.24       | 30.78  | 4.99  | 36.81  | 50.20  | 68.20  | -18.00 | HORIZONTAL | Peak   |
| 5 | 10480.000 | 43.98       | 39.46  | 7.40  | 37.36  | 53.48  | 68.20  | -14.72 | HORIZONTAL | Peak   |
| 6 | 15720.000 | 39.96       | 38.78  | 9.87  | 35.39  | 53.22  | 74.00  | -20.78 | HORIZONTAL | Peak   |

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



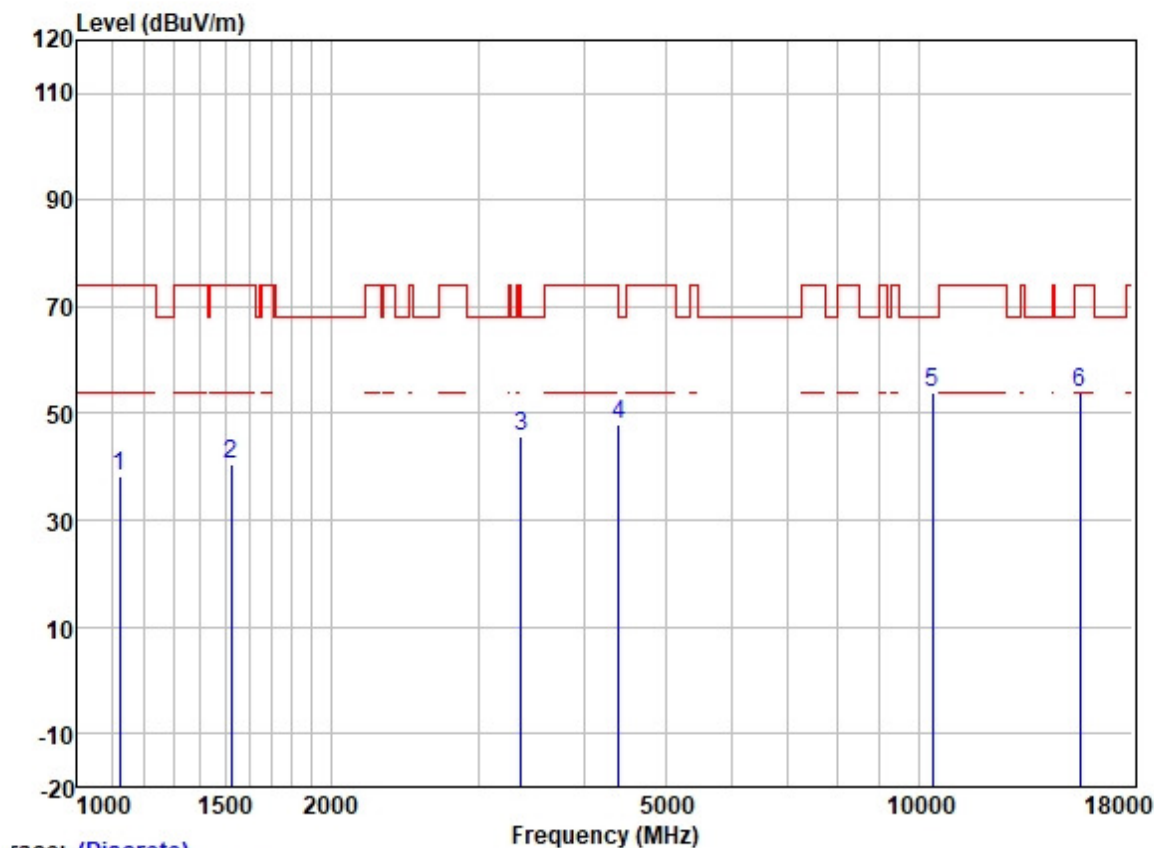
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1217.190  | 49.50       | 24.79  | 2.32  | 38.37  | 38.24  | 74.00  | -35.76 | VERTICAL  | Peak   |
| 2 | 1560.673  | 50.45       | 25.54  | 2.80  | 38.03  | 40.76  | 74.00  | -33.24 | VERTICAL  | Peak   |
| 3 | 3495.691  | 49.06       | 28.90  | 4.30  | 36.94  | 45.32  | 68.20  | -22.88 | VERTICAL  | Peak   |
| 4 | 4469.214  | 48.93       | 30.77  | 4.93  | 36.81  | 47.82  | 68.20  | -20.38 | VERTICAL  | Peak   |
| 5 | 10480.000 | 43.41       | 39.46  | 7.40  | 37.36  | 52.91  | 68.20  | -15.29 | VERTICAL  | Peak   |
| 6 | 15720.000 | 39.41       | 38.78  | 9.87  | 35.39  | 52.67  | 74.00  | -21.33 | VERTICAL  | Peak   |

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



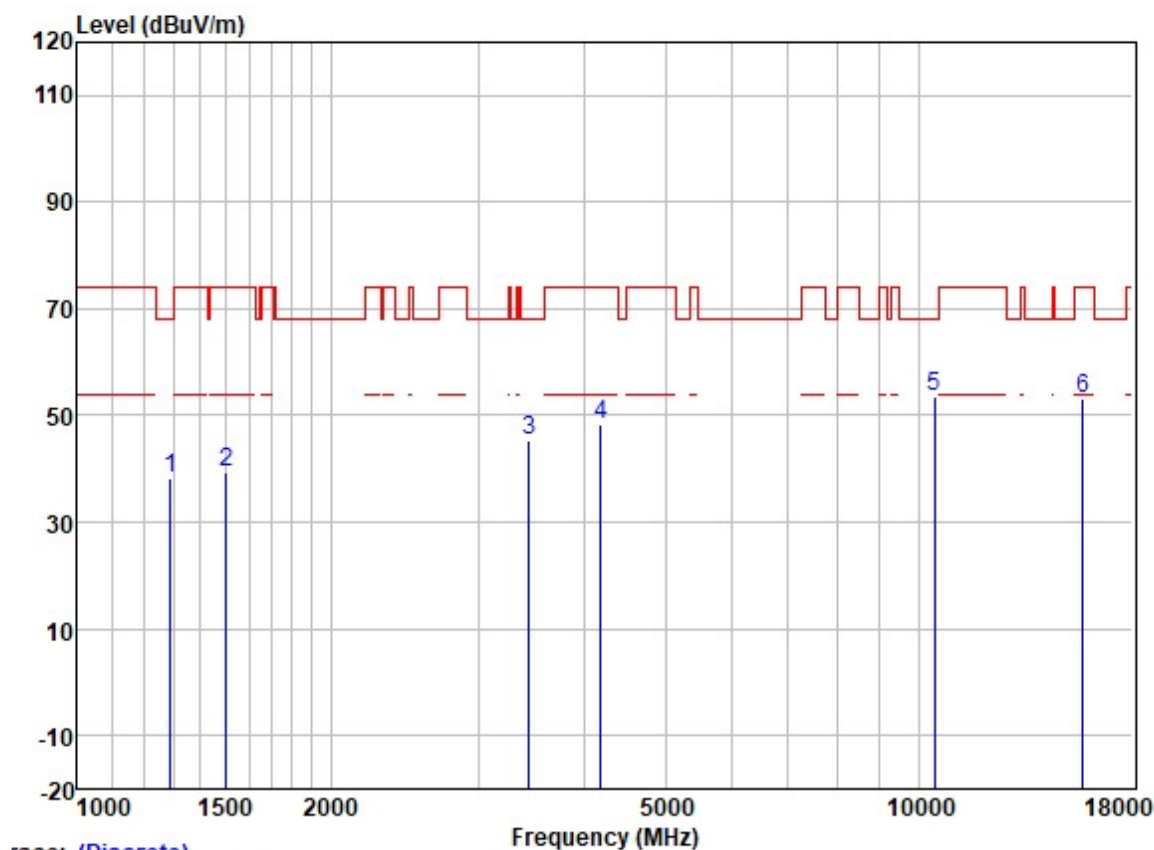
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1119.323  | 49.77       | 24.41  | 2.24  | 38.43  | 37.99  | 74.00  | -36.01 | HORIZONTAL | Peak   |
| 2 | 1597.181  | 49.58       | 25.58  | 2.80  | 37.98  | 39.98  | 74.00  | -34.02 | HORIZONTAL | Peak   |
| 3 | 3405.929  | 49.19       | 28.85  | 4.11  | 36.98  | 45.17  | 68.20  | -23.03 | HORIZONTAL | Peak   |
| 4 | 4354.454  | 49.80       | 30.59  | 4.68  | 36.81  | 48.26  | 74.00  | -25.74 | HORIZONTAL | Peak   |
| 5 | 10380.000 | 44.51       | 39.33  | 7.32  | 37.37  | 53.79  | 68.20  | -14.41 | HORIZONTAL | Peak   |
| 6 | 15570.000 | 39.87       | 38.99  | 9.88  | 35.39  | 53.35  | 74.00  | -20.65 | HORIZONTAL | Peak   |

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



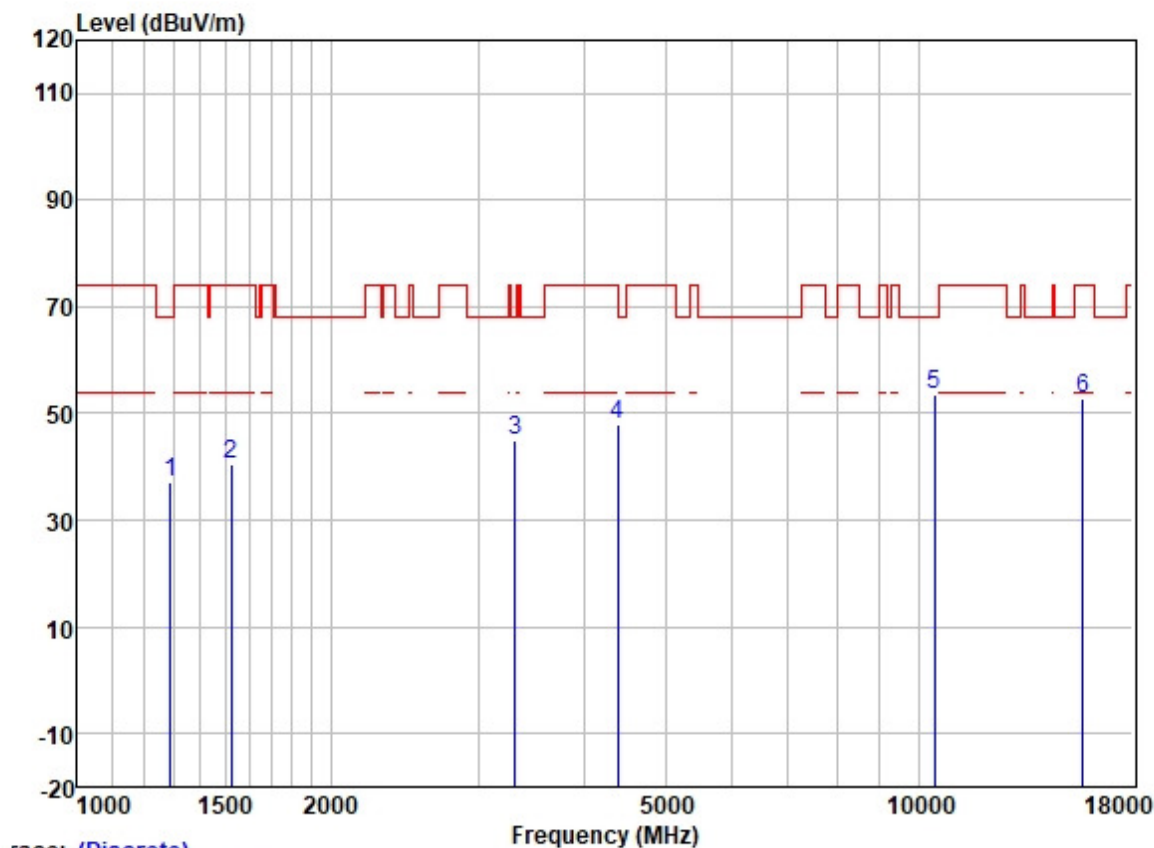
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1122.563  | 49.95 | 24.42   | 2.22  | 38.43  | 38.16  | 74.00  | -35.84    | VERTICAL Peak |
| 2 | 1525.000  | 50.14 | 25.52   | 2.80  | 38.07  | 40.39  | 74.00  | -33.61    | VERTICAL Peak |
| 3 | 3366.778  | 49.70 | 28.82   | 4.09  | 36.99  | 45.62  | 68.20  | -22.58    | VERTICAL Peak |
| 4 | 4405.090  | 49.41 | 30.68   | 4.70  | 36.81  | 47.98  | 68.20  | -20.22    | VERTICAL Peak |
| 5 | 10380.000 | 44.61 | 39.33   | 7.32  | 37.37  | 53.89  | 68.20  | -14.31    | VERTICAL Peak |
| 6 | 15570.000 | 40.30 | 38.99   | 9.88  | 35.39  | 53.78  | 74.00  | -20.22    | VERTICAL Peak |

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



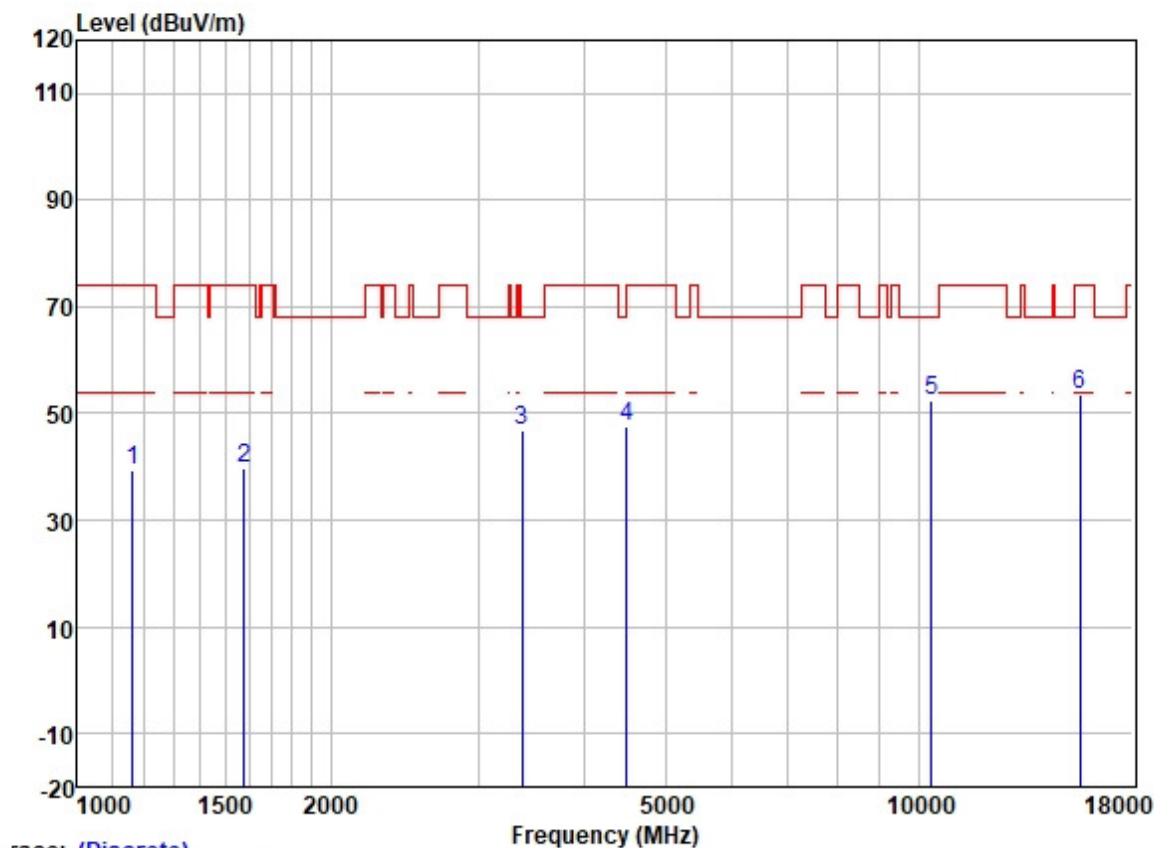
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1289.627  | 48.68       | 25.17  | 2.55  | 38.31  | 38.09  | 68.20  | -30.11 | HORIZONTAL | Peak   |
| 2 | 1503.119  | 49.07       | 25.50  | 2.80  | 38.10  | 39.27  | 74.00  | -34.73 | HORIZONTAL | Peak   |
| 3 | 3445.535  | 49.37       | 28.87  | 4.18  | 36.96  | 45.46  | 68.20  | -22.74 | HORIZONTAL | Peak   |
| 4 | 4193.872  | 50.44       | 30.15  | 4.60  | 36.81  | 48.38  | 74.00  | -25.62 | HORIZONTAL | Peak   |
| 5 | 10460.000 | 43.99       | 39.42  | 7.37  | 37.36  | 53.42  | 68.20  | -14.78 | HORIZONTAL | Peak   |
| 6 | 15690.000 | 39.66       | 38.86  | 9.87  | 35.39  | 53.00  | 74.00  | -21.00 | HORIZONTAL | Peak   |

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



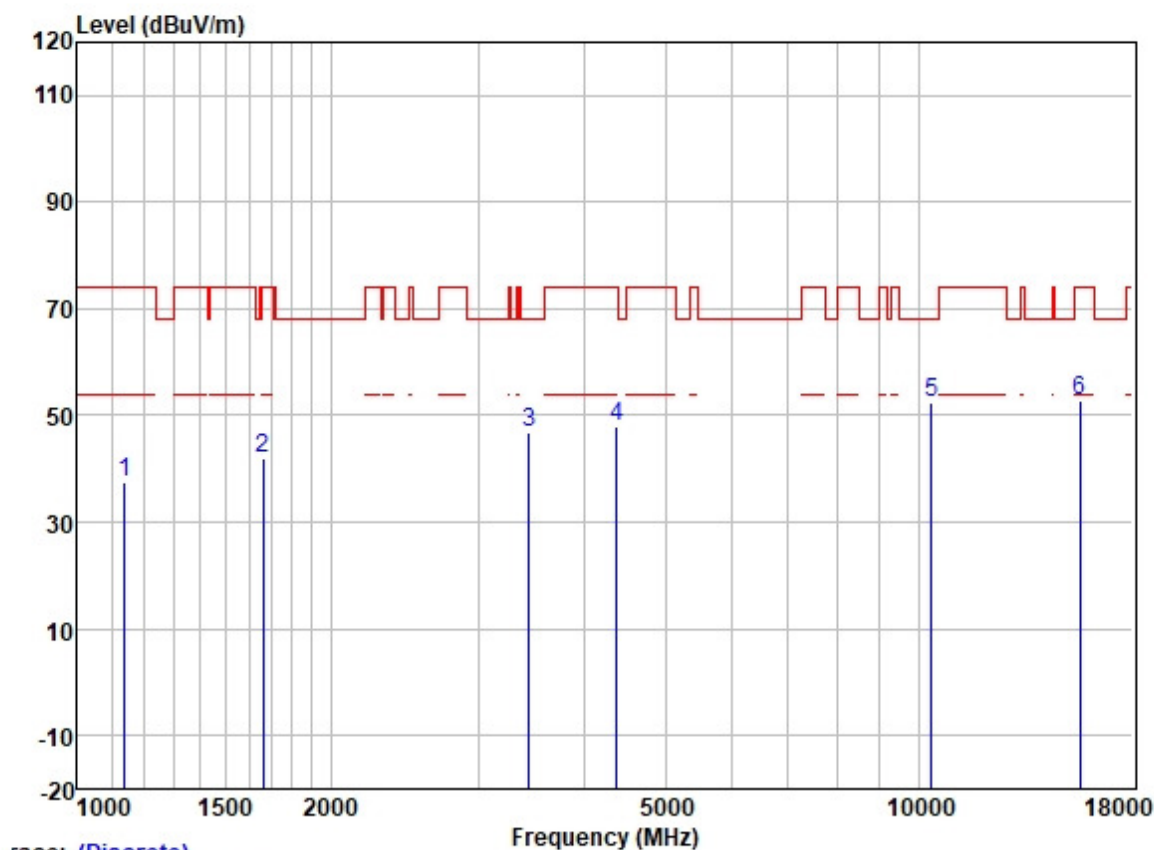
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1289.627  | 47.75       | 25.17  | 2.55  | 38.31  | 37.16  | 68.20  | -31.04 | VERTICAL  | Peak   |
| 2 | 1525.000  | 50.17       | 25.52  | 2.80  | 38.07  | 40.42  | 74.00  | -33.58 | VERTICAL  | Peak   |
| 3 | 3318.471  | 49.02       | 28.77  | 4.07  | 37.02  | 44.84  | 68.20  | -23.36 | VERTICAL  | Peak   |
| 4 | 4392.376  | 49.25       | 30.66  | 4.70  | 36.81  | 47.80  | 74.00  | -26.20 | VERTICAL  | Peak   |
| 5 | 10460.000 | 44.03       | 39.42  | 7.37  | 37.36  | 53.46  | 68.20  | -14.74 | VERTICAL  | Peak   |
| 6 | 15690.000 | 39.53       | 38.86  | 9.87  | 35.39  | 52.87  | 74.00  | -21.13 | VERTICAL  | Peak   |

Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1162.182  | 50.70       | 24.53  | 2.40  | 38.42  | 39.21  | 74.00  | -34.79 | HORIZONTAL | Peak   |
| 2 | 1578.822  | 49.33       | 25.56  | 2.80  | 38.00  | 39.69  | 74.00  | -34.31 | HORIZONTAL | Peak   |
| 3 | 3376.523  | 50.88       | 28.83  | 4.09  | 36.99  | 46.81  | 68.20  | -21.39 | HORIZONTAL | Peak   |
| 4 | 4495.125  | 48.68       | 30.80  | 5.05  | 36.82  | 47.71  | 68.20  | -20.49 | HORIZONTAL | Peak   |
| 5 | 10360.000 | 43.32       | 39.28  | 7.29  | 37.37  | 52.52  | 68.20  | -15.68 | HORIZONTAL | Peak   |
| 6 | 15540.000 | 39.93       | 39.05  | 9.88  | 35.39  | 53.47  | 74.00  | -20.53 | HORIZONTAL | Peak   |

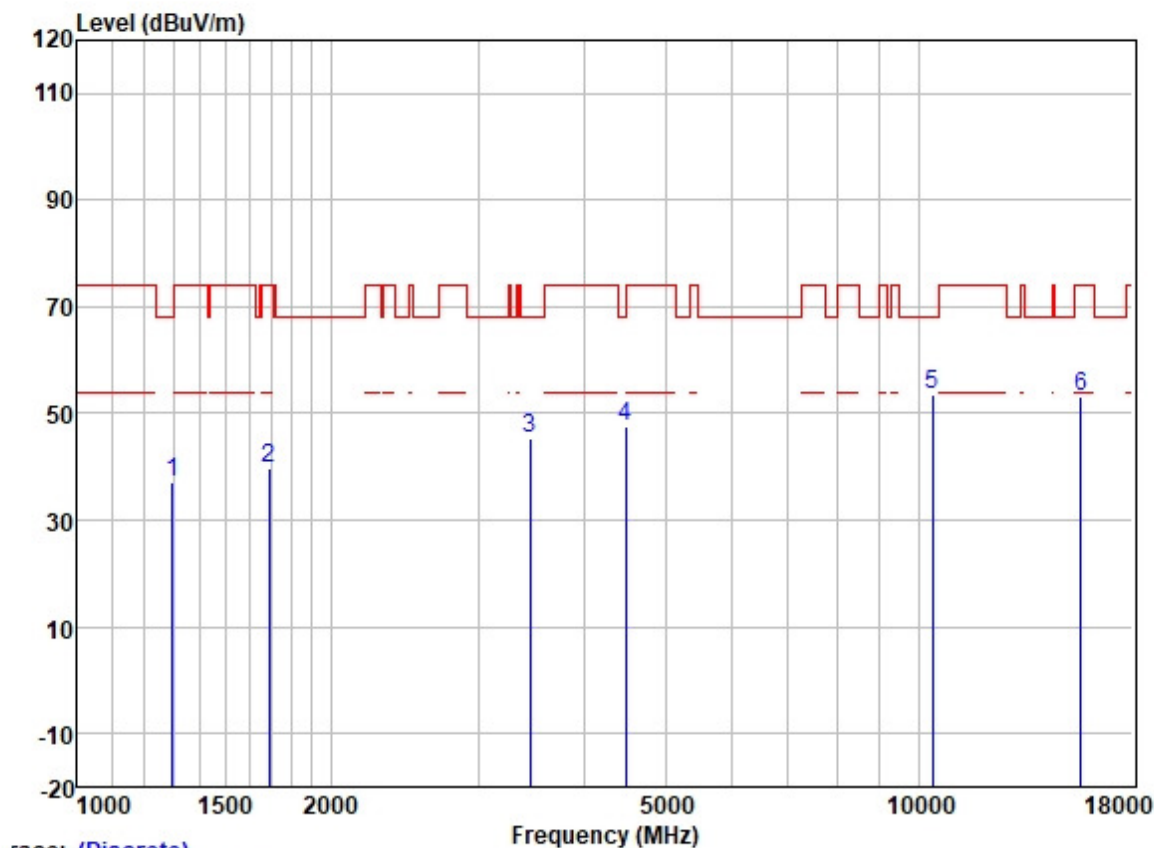
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



race: (Discrete)

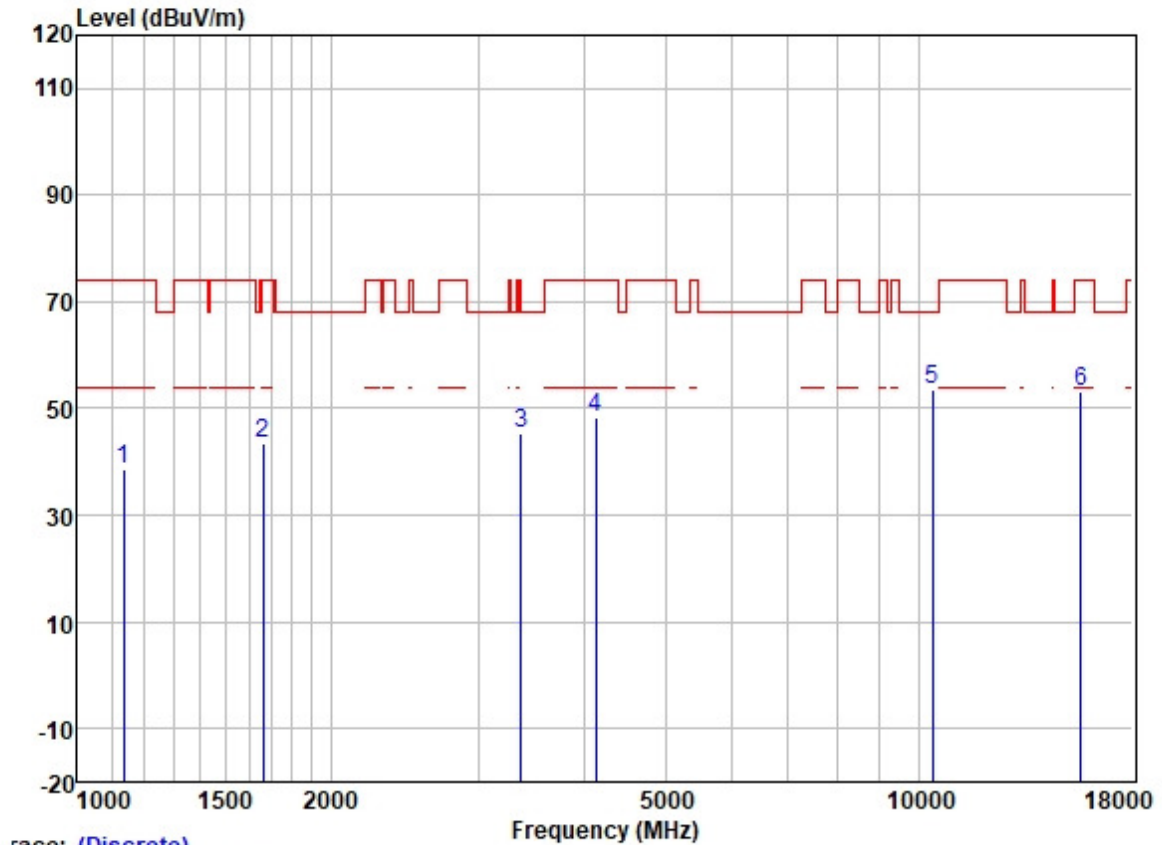
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1138.904  | 49.07       | 24.46  | 2.27  | 38.42  | 37.38  | 74.00  | -36.62 | VERTICAL  | Peak   |
| 2 | 1663.137  | 51.32       | 25.65  | 2.80  | 37.91  | 41.86  | 74.00  | -32.14 | VERTICAL  | Peak   |
| 3 | 3445.535  | 50.67       | 28.87  | 4.18  | 36.96  | 46.76  | 68.20  | -21.44 | VERTICAL  | Peak   |
| 4 | 4379.699  | 49.28       | 30.64  | 4.69  | 36.81  | 47.80  | 74.00  | -26.20 | VERTICAL  | Peak   |
| 5 | 10360.000 | 43.19       | 39.28  | 7.29  | 37.37  | 52.39  | 68.20  | -15.81 | VERTICAL  | Peak   |
| 6 | 15540.000 | 39.43       | 39.05  | 9.88  | 35.39  | 52.97  | 74.00  | -21.03 | VERTICAL  | Peak   |

Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



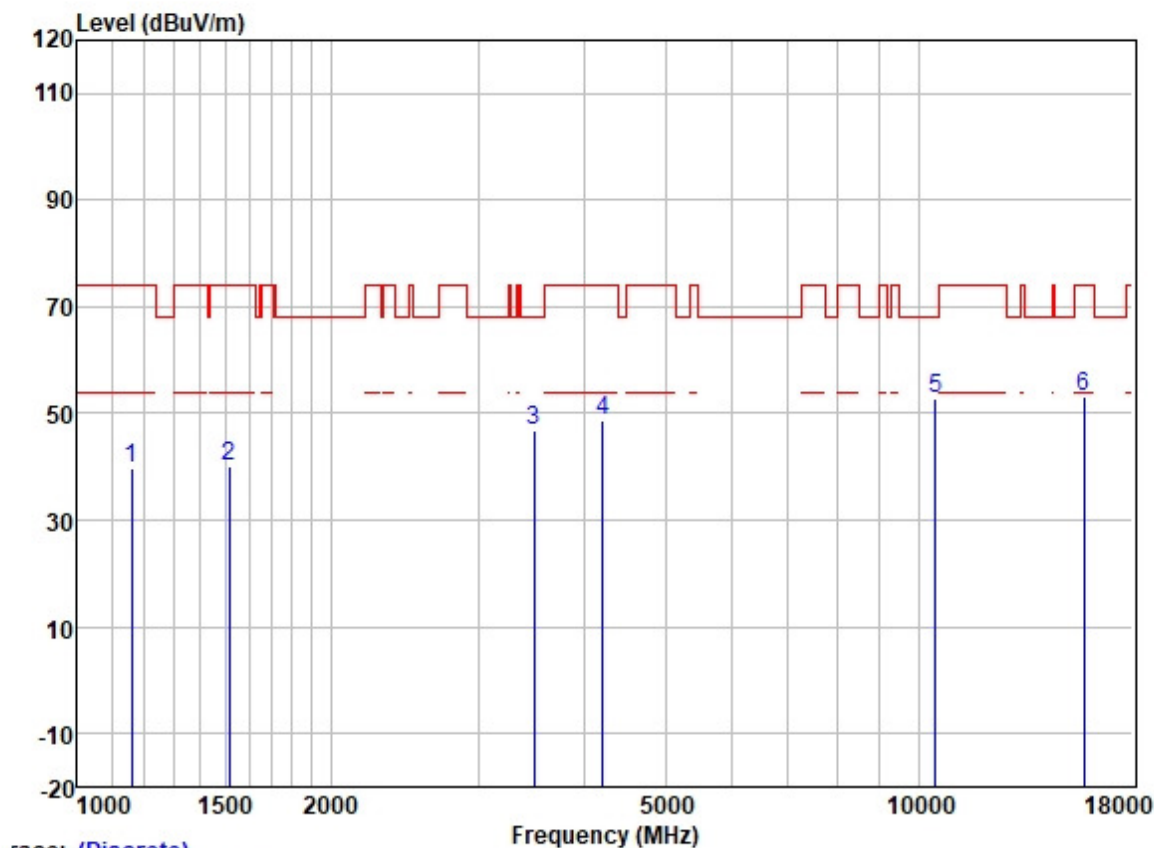
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1297.103  | 47.82       | 25.19  | 2.58  | 38.31  | 37.28  | 68.20  | -30.92 | HORIZONTAL | Peak   |
| 2 | 1692.231  | 49.25       | 25.70  | 2.80  | 37.89  | 39.86  | 74.00  | -34.14 | HORIZONTAL | Peak   |
| 3 | 3455.508  | 49.33       | 28.88  | 4.20  | 36.96  | 45.45  | 68.20  | -22.75 | HORIZONTAL | Peak   |
| 4 | 4482.150  | 48.66       | 30.78  | 4.99  | 36.81  | 47.62  | 68.20  | -20.58 | HORIZONTAL | Peak   |
| 5 | 10400.000 | 44.41       | 39.33  | 7.32  | 37.36  | 53.70  | 68.20  | -14.50 | HORIZONTAL | Peak   |
| 6 | 15600.000 | 39.76       | 38.99  | 9.88  | 35.39  | 53.24  | 74.00  | -20.76 | HORIZONTAL | Peak   |

Test Mode: 04; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



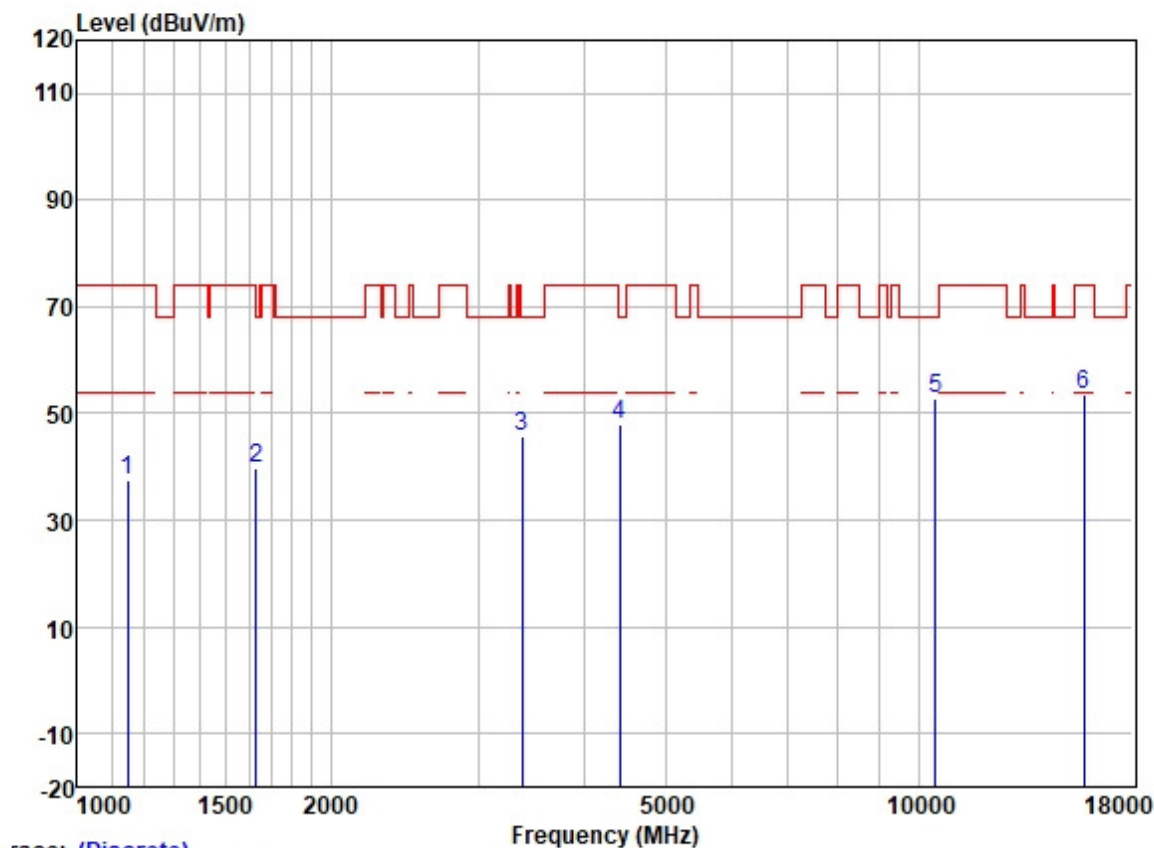
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1135.617  | 50.42 | 24.45   | 2.25  | 38.43  | 38.69  | 74.00  | -35.31    | VERTICAL Peak |
| 2 | 1663.137  | 52.94 | 25.65   | 2.80  | 37.91  | 43.48  | 74.00  | -30.52    | VERTICAL Peak |
| 3 | 3366.778  | 49.50 | 28.82   | 4.09  | 36.99  | 45.42  | 68.20  | -22.78    | VERTICAL Peak |
| 4 | 4133.699  | 50.62 | 30.01   | 4.60  | 36.80  | 48.43  | 74.00  | -25.57    | VERTICAL Peak |
| 5 | 10400.000 | 44.23 | 39.33   | 7.32  | 37.36  | 53.52  | 68.20  | -14.68    | VERTICAL Peak |
| 6 | 15600.000 | 39.76 | 38.99   | 9.88  | 35.39  | 53.24  | 74.00  | -20.76    | VERTICAL Peak |

Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



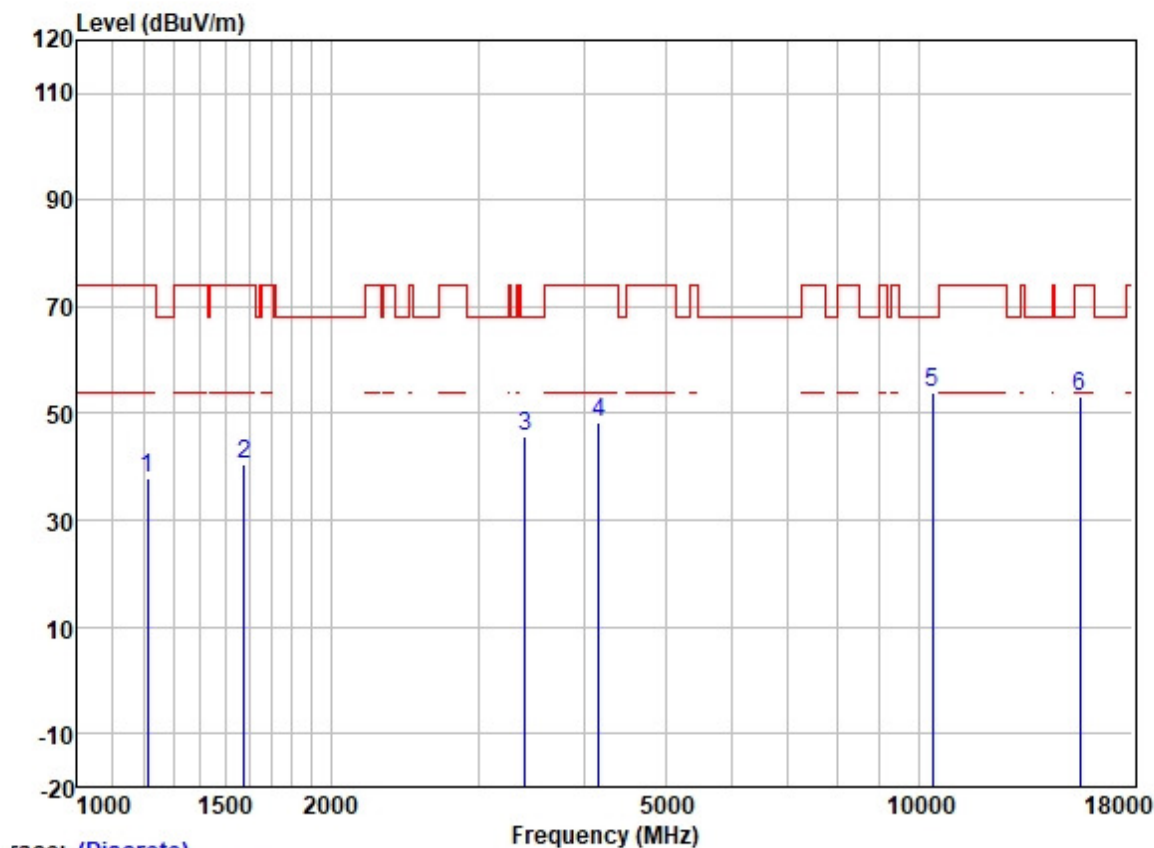
|   |           | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |            |        |
|---|-----------|-------------|--------|--------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1158.828  | 51.26       | 24.52  | 2.40   | 38.42  | 39.76  | 74.00  | -34.24 | HORIZONTAL | Peak   |
| 2 | 1516.210  | 49.80       | 25.51  | 2.80   | 38.07  | 40.04  | 74.00  | -33.96 | HORIZONTAL | Peak   |
| 3 | 3495.691  | 50.40       | 28.90  | 4.30   | 36.94  | 46.66  | 68.20  | -21.54 | HORIZONTAL | Peak   |
| 4 | 4218.186  | 50.71       | 30.22  | 4.60   | 36.81  | 48.72  | 74.00  | -25.28 | HORIZONTAL | Peak   |
| 5 | 10480.000 | 43.19       | 39.46  | 7.40   | 37.36  | 52.69  | 68.20  | -15.51 | HORIZONTAL | Peak   |
| 6 | 15720.000 | 40.03       | 38.78  | 9.87   | 35.39  | 53.29  | 74.00  | -20.71 | HORIZONTAL | Peak   |

Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



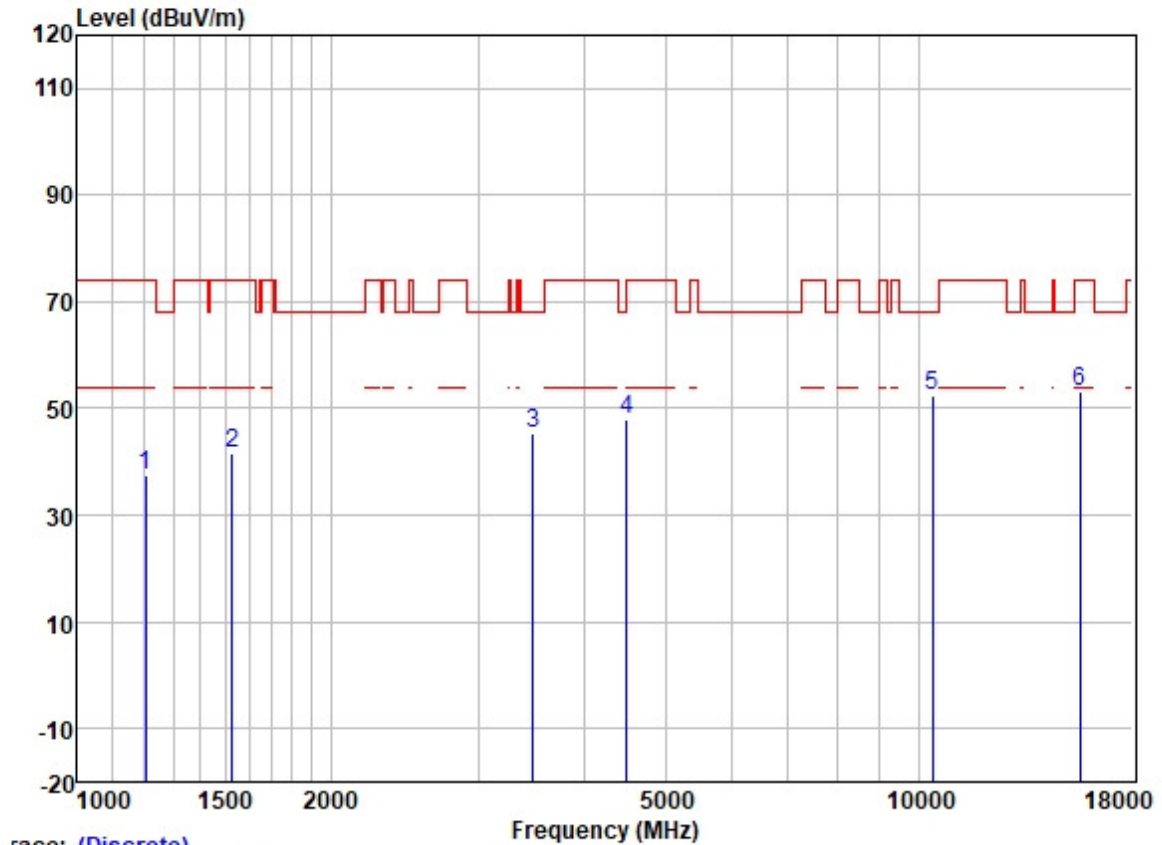
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1148.823  | 49.15       | 24.49  | 2.34  | 38.42  | 37.56  | 74.00  | -36.44 | VERTICAL  | Peak   |
| 2 | 1629.825  | 49.36       | 25.61  | 2.80  | 37.95  | 39.82  | 68.20  | -28.38 | VERTICAL  | Peak   |
| 3 | 3376.523  | 49.66       | 28.83  | 4.09  | 36.99  | 45.59  | 68.20  | -22.61 | VERTICAL  | Peak   |
| 4 | 4417.841  | 49.34       | 30.70  | 4.74  | 36.81  | 47.97  | 68.20  | -20.23 | VERTICAL  | Peak   |
| 5 | 10480.000 | 43.41       | 39.46  | 7.40  | 37.36  | 52.91  | 68.20  | -15.29 | VERTICAL  | Peak   |
| 6 | 15720.000 | 40.37       | 38.78  | 9.87  | 35.39  | 53.63  | 74.00  | -20.37 | VERTICAL  | Peak   |

Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



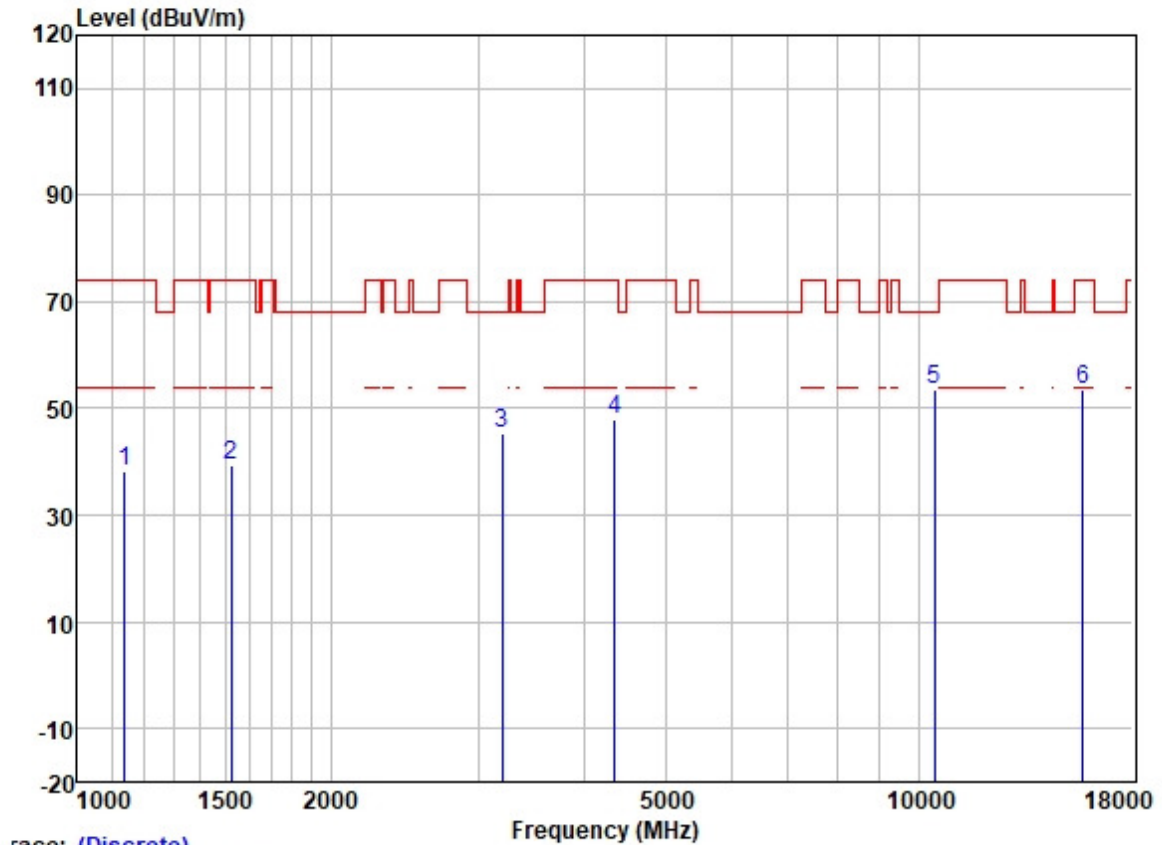
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1210.174  | 49.10       | 24.74  | 2.33  | 38.39  | 37.78  | 74.00  | -36.22 | HORIZONTAL | Peak   |
| 2 | 1578.822  | 49.97       | 25.56  | 2.80  | 38.00  | 40.33  | 74.00  | -33.67 | HORIZONTAL | Peak   |
| 3 | 3405.929  | 49.91       | 28.85  | 4.11  | 36.98  | 45.89  | 68.20  | -22.31 | HORIZONTAL | Peak   |
| 4 | 4169.698  | 50.25       | 30.09  | 4.60  | 36.80  | 48.14  | 74.00  | -25.86 | HORIZONTAL | Peak   |
| 5 | 10380.000 | 44.66       | 39.33  | 7.32  | 37.37  | 53.94  | 68.20  | -14.26 | HORIZONTAL | Peak   |
| 6 | 15570.000 | 39.78       | 38.99  | 9.88  | 35.39  | 53.26  | 74.00  | -20.74 | HORIZONTAL | Peak   |

Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



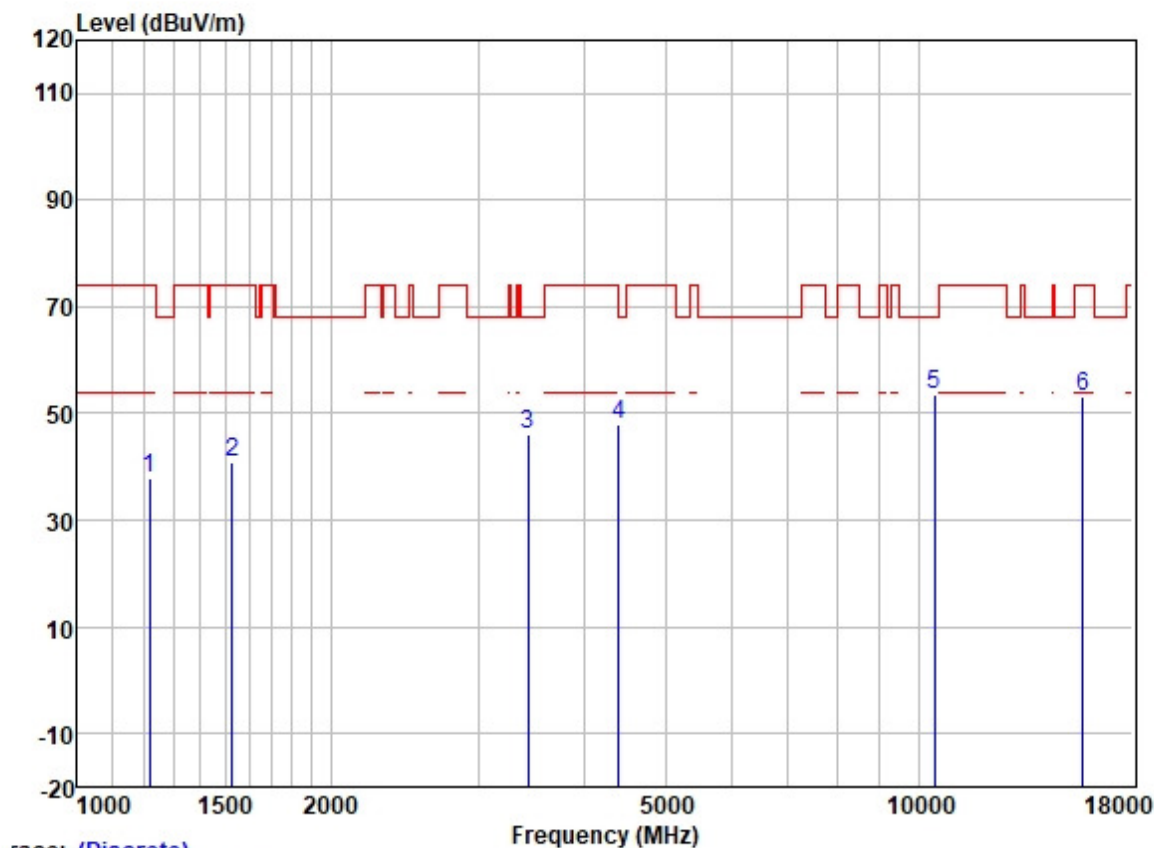
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1206.682  | 48.65 | 24.72   | 2.33  | 38.39  | 37.31  | 74.00  | -36.69    | VERTICAL Peak |
| 2 | 1529.414  | 51.39 | 25.52   | 2.80  | 38.07  | 41.64  | 74.00  | -32.36    | VERTICAL Peak |
| 3 | 3485.601  | 49.29 | 28.89   | 4.27  | 36.95  | 45.50  | 68.20  | -22.70    | VERTICAL Peak |
| 4 | 4495.125  | 48.86 | 30.80   | 5.05  | 36.82  | 47.89  | 68.20  | -20.31    | VERTICAL Peak |
| 5 | 10380.000 | 43.13 | 39.33   | 7.32  | 37.37  | 52.41  | 68.20  | -15.79    | VERTICAL Peak |
| 6 | 15570.000 | 39.55 | 38.99   | 9.88  | 35.39  | 53.03  | 74.00  | -20.97    | VERTICAL Peak |

Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



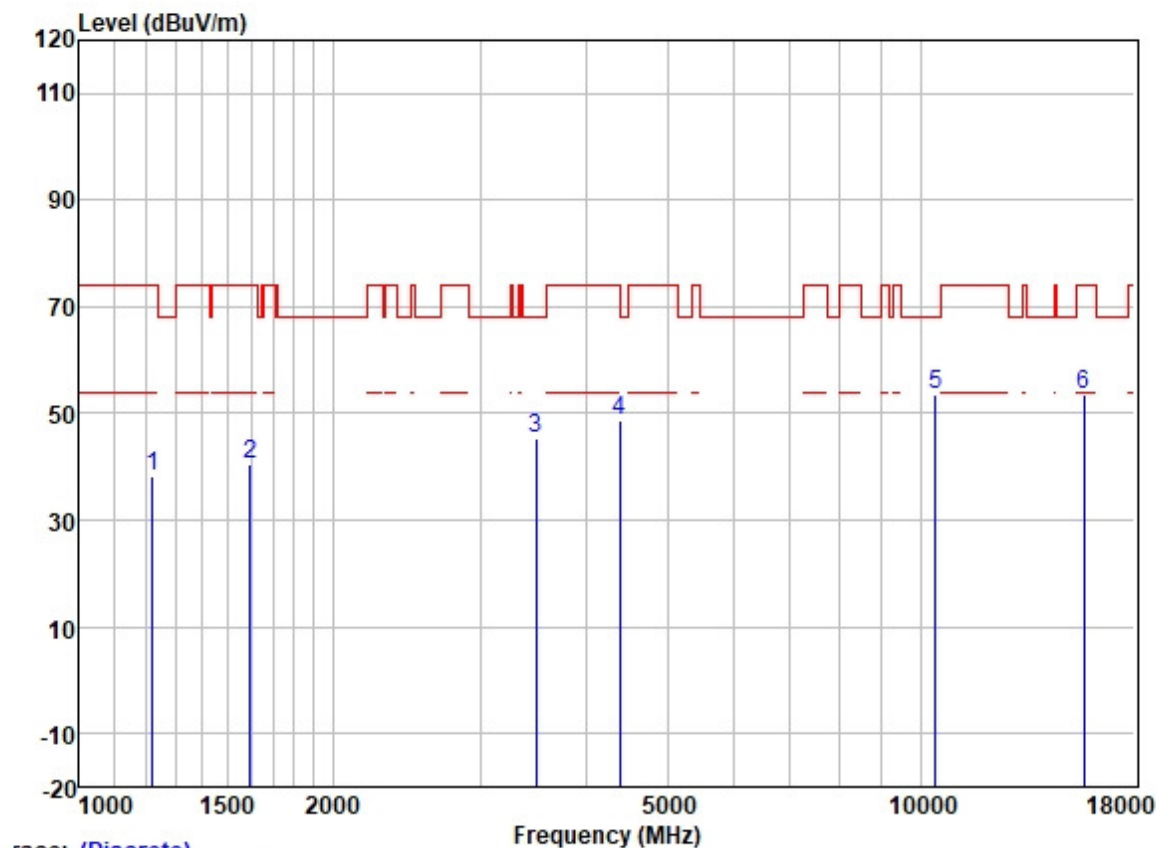
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1138.904  | 49.91       | 24.46  | 2.27  | 38.42  | 38.22  | 74.00  | -35.78 | HORIZONTAL | Peak   |
| 2 | 1525.000  | 49.17       | 25.52  | 2.80  | 38.07  | 39.42  | 74.00  | -34.58 | HORIZONTAL | Peak   |
| 3 | 3196.094  | 49.97       | 28.58  | 4.00  | 37.09  | 45.46  | 68.20  | -22.74 | HORIZONTAL | Peak   |
| 4 | 4354.454  | 49.65       | 30.59  | 4.68  | 36.81  | 48.11  | 74.00  | -25.89 | HORIZONTAL | Peak   |
| 5 | 10460.000 | 44.08       | 39.42  | 7.37  | 37.36  | 53.51  | 68.20  | -14.69 | HORIZONTAL | Peak   |
| 6 | 15690.000 | 40.23       | 38.86  | 9.87  | 35.39  | 53.57  | 74.00  | -20.43 | HORIZONTAL | Peak   |

Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



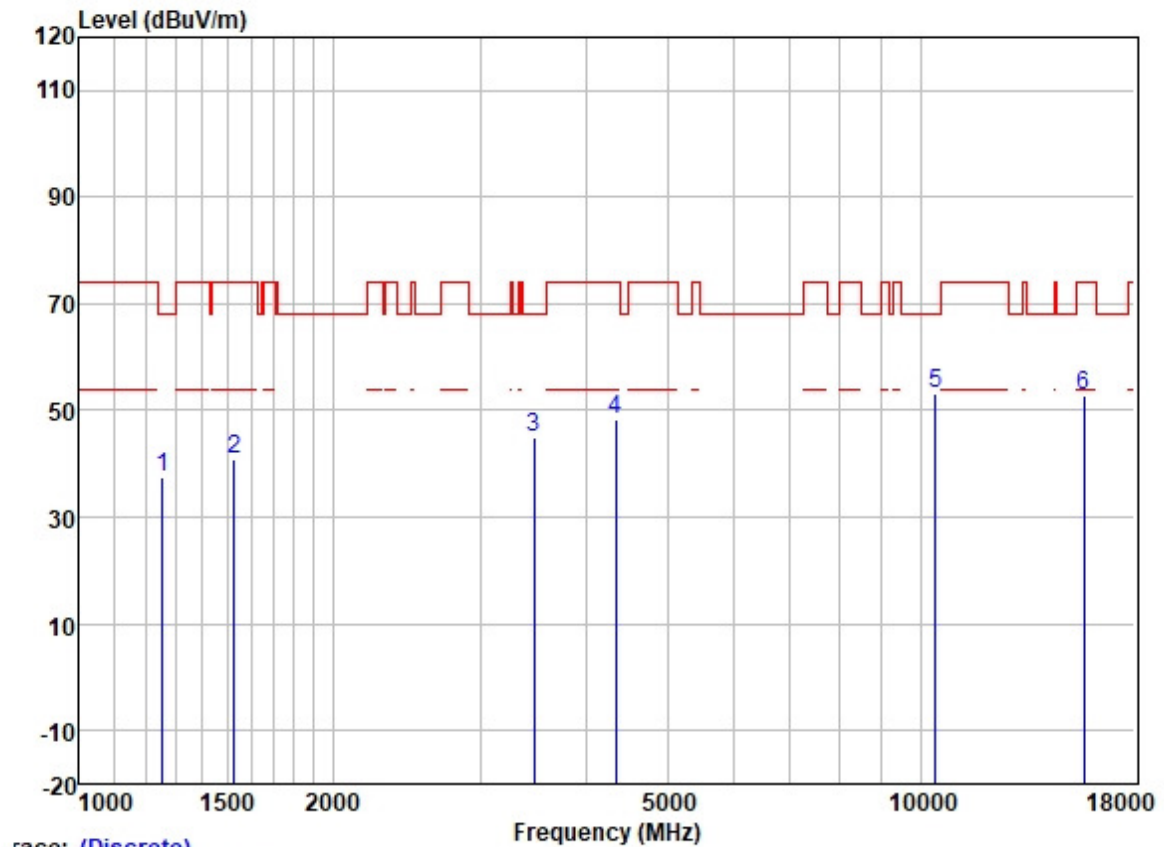
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1217.190  | 49.00       | 24.79  | 2.32  | 38.37  | 37.74  | 74.00  | -36.26 | VERTICAL  | Peak   |
| 2 | 1529.414  | 50.58       | 25.52  | 2.80  | 38.07  | 40.83  | 74.00  | -33.17 | VERTICAL  | Peak   |
| 3 | 3435.590  | 49.96       | 28.87  | 4.16  | 36.97  | 46.02  | 68.20  | -22.18 | VERTICAL  | Peak   |
| 4 | 4405.090  | 49.45       | 30.68  | 4.70  | 36.81  | 48.02  | 68.20  | -20.18 | VERTICAL  | Peak   |
| 5 | 10460.000 | 44.19       | 39.42  | 7.37  | 37.36  | 53.62  | 68.20  | -14.58 | VERTICAL  | Peak   |
| 6 | 15690.000 | 39.96       | 38.86  | 9.87  | 35.39  | 53.30  | 74.00  | -20.70 | VERTICAL  | Peak   |

Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1220.714  | 49.41       | 24.82  | 2.32  | 38.37  | 38.18  | 74.00  | -35.82 | HORIZONTAL | Peak   |
| 2 | 1597.181  | 50.10       | 25.58  | 2.80  | 37.98  | 40.50  | 74.00  | -33.50 | HORIZONTAL | Peak   |
| 3 | 3495.691  | 49.04       | 28.90  | 4.30  | 36.94  | 45.30  | 68.20  | -22.90 | HORIZONTAL | Peak   |
| 4 | 4392.376  | 50.06       | 30.66  | 4.70  | 36.81  | 48.61  | 74.00  | -25.39 | HORIZONTAL | Peak   |
| 5 | 10420.000 | 44.16       | 39.38  | 7.35  | 37.36  | 53.53  | 68.20  | -14.67 | HORIZONTAL | Peak   |
| 6 | 15630.000 | 40.00       | 38.92  | 9.87  | 35.39  | 53.40  | 74.00  | -20.60 | HORIZONTAL | Peak   |

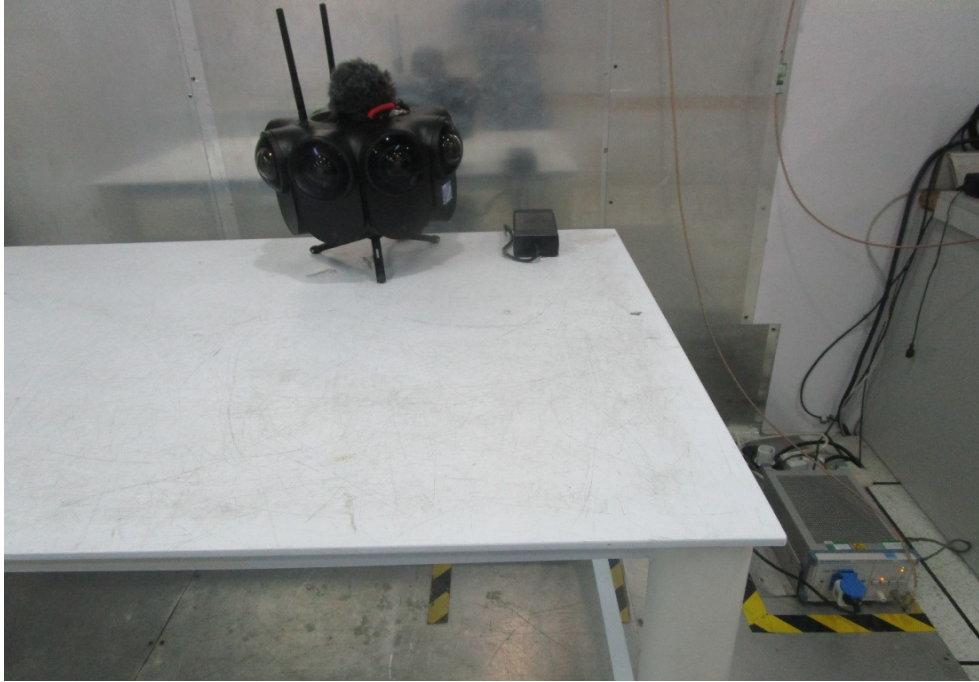
Test Mode: 04; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



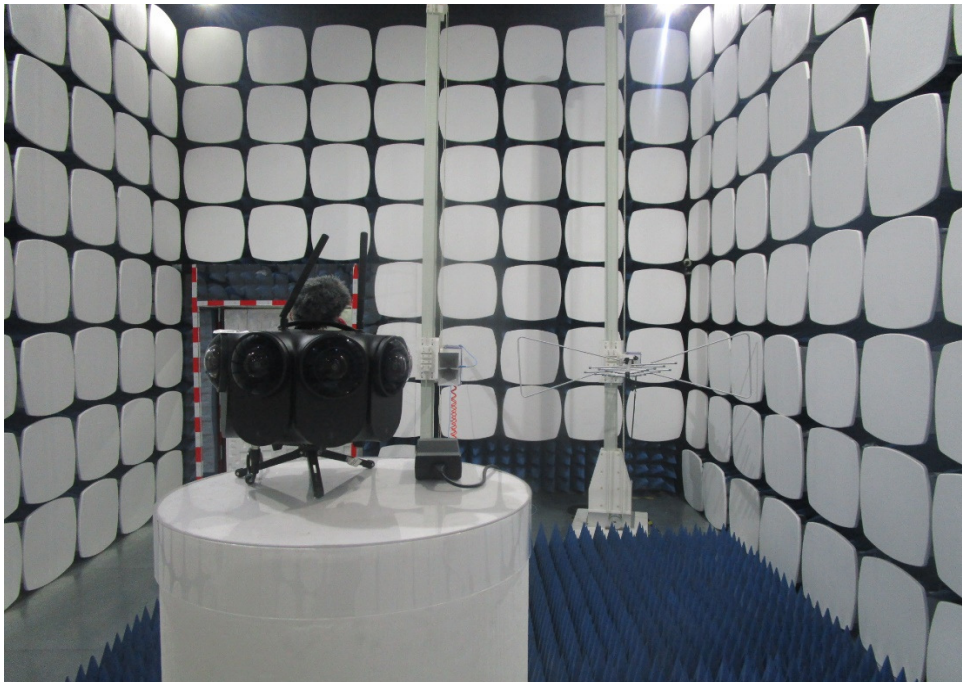
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1256.512  | 48.52       | 25.05  | 2.38  | 38.35  | 37.60  | 68.20  | -30.60 | VERTICAL  | Peak   |
| 2 | 1529.414  | 50.53       | 25.52  | 2.80  | 38.07  | 40.78  | 74.00  | -33.22 | VERTICAL  | Peak   |
| 3 | 3475.541  | 48.69       | 28.89  | 4.25  | 36.95  | 44.88  | 68.20  | -23.32 | VERTICAL  | Peak   |
| 4 | 4341.886  | 50.00       | 30.57  | 4.67  | 36.81  | 48.43  | 74.00  | -25.57 | VERTICAL  | Peak   |
| 5 | 10420.000 | 43.86       | 39.38  | 7.35  | 37.36  | 53.23  | 68.20  | -14.97 | VERTICAL  | Peak   |
| 6 | 15630.000 | 39.46       | 38.92  | 9.87  | 35.39  | 52.86  | 74.00  | -21.14 | VERTICAL  | Peak   |

## 8 Test Setup Photo

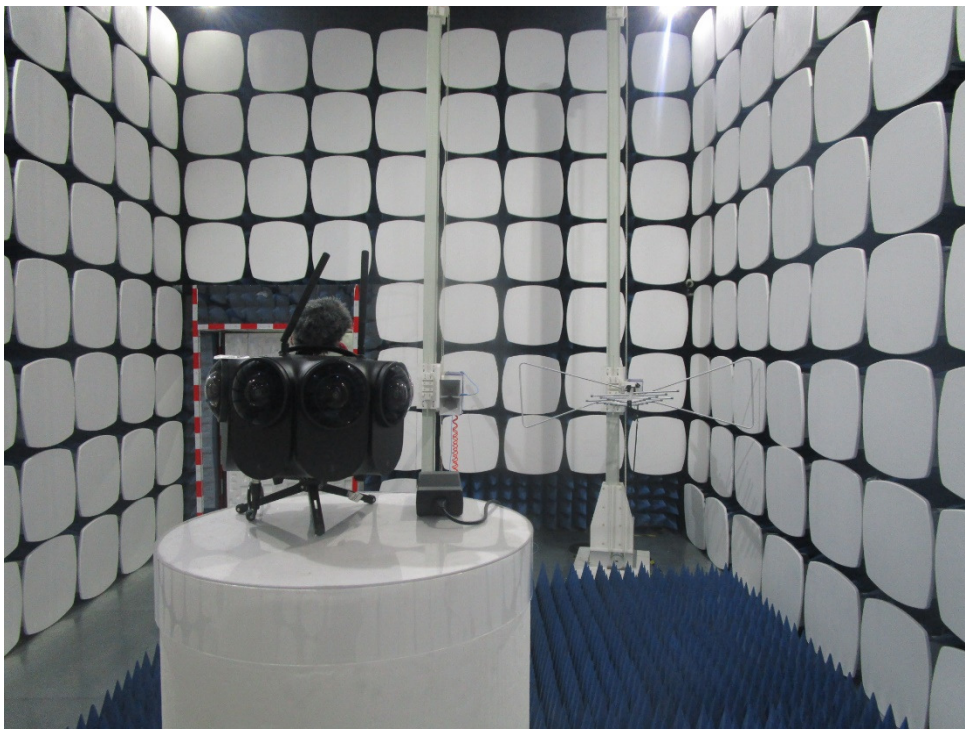
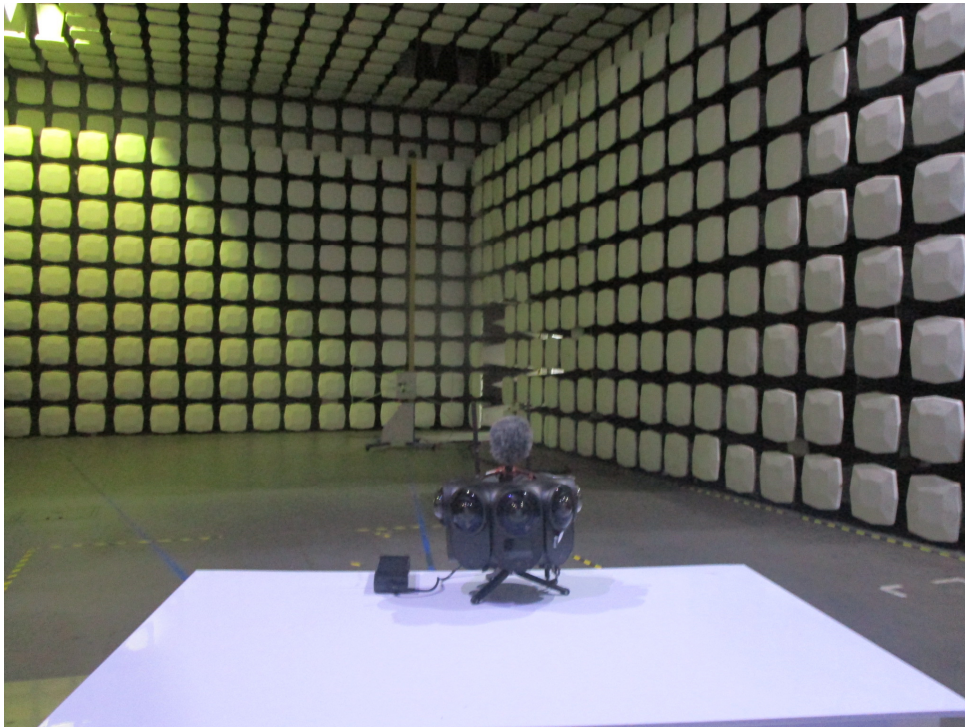
### Conducted Emissions at AC Power Line (150kHz-30MHz)



### Radiated Emissions which fall in the restricted bands



### Radiated Emissions



## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2110021203AT

## 10 Appendix

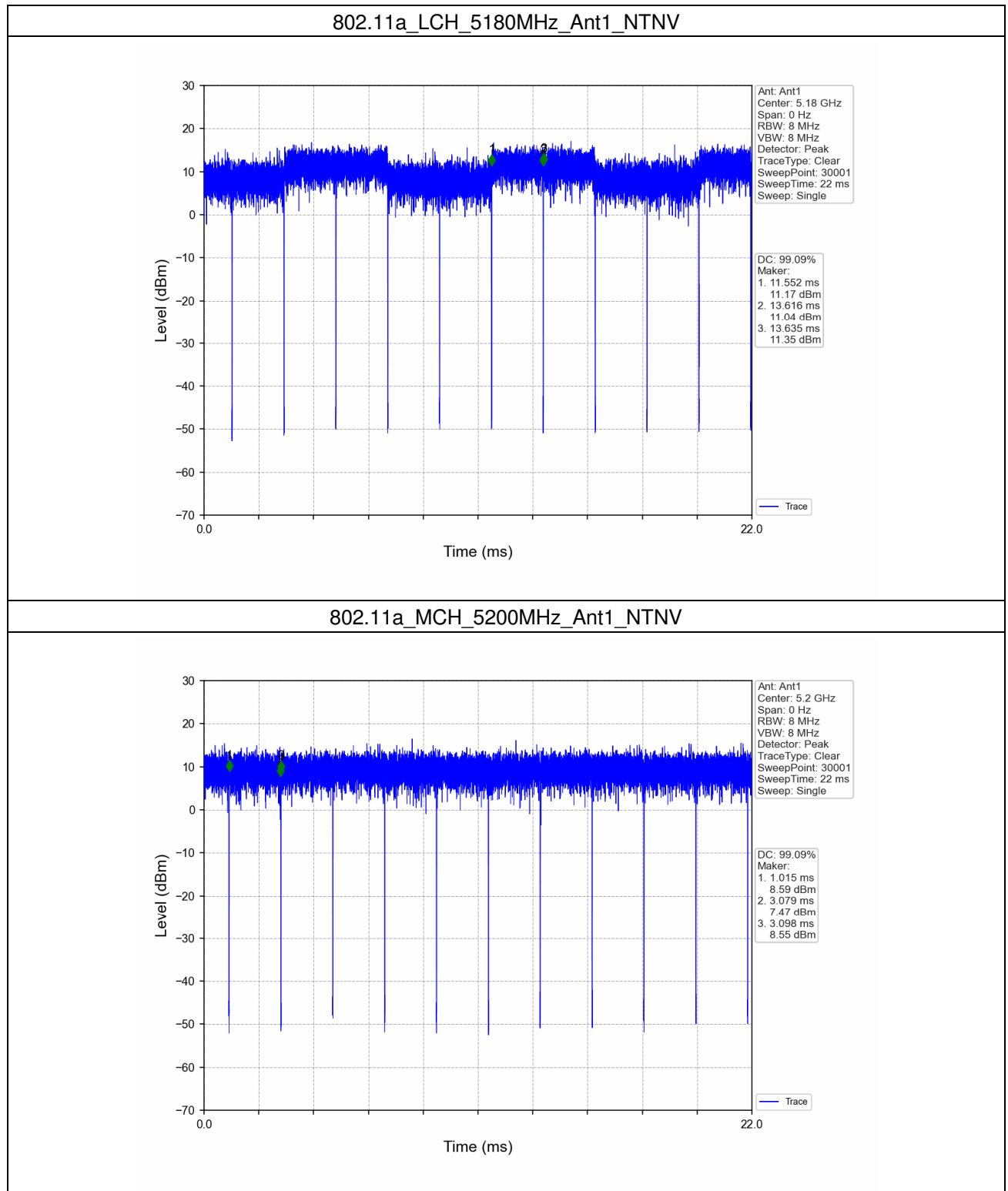
### 1. Duty Cycle

#### 1.1 Ant1

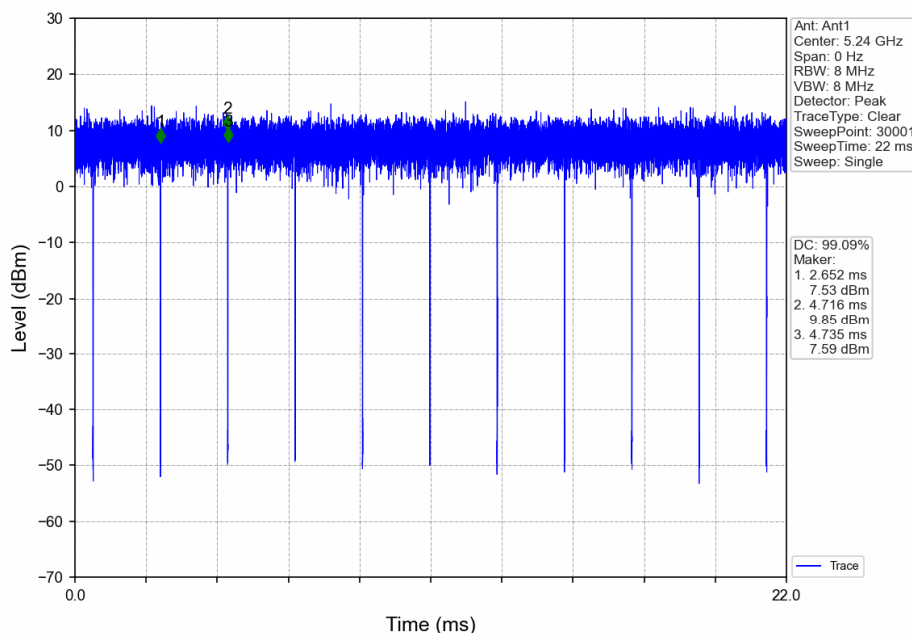
##### 1.1.1 Test Result

| Ant1             |         |                 |           |             |                |                                   |                       |
|------------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode             | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11a          | SISO    | 5180            | 2.064     | 2.083       | 99.09          | 0.04                              | 0.04                  |
|                  |         | 5200            | 2.064     | 2.083       | 99.09          | 0.04                              | 0.04                  |
|                  |         | 5240            | 2.064     | 2.083       | 99.09          | 0.04                              | 0.04                  |
| 802.11n (HT20)   | SISO    | 5180            | 1.920     | 1.940       | 98.97          | 0.05                              | 0.03                  |
|                  |         | 5200            | 1.919     | 1.939       | 98.97          | 0.05                              | 0.03                  |
|                  |         | 5240            | 1.920     | 1.939       | 99.02          | 0.04                              | 0.03                  |
| 802.11n (HT40)   | SISO    | 5190            | 1.535     | 1.555       | 98.71          | 0.06                              | 0.03                  |
|                  |         | 5230            | 1.536     | 1.555       | 98.78          | 0.05                              | 0.03                  |
| 802.11ac (VHT20) | SISO    | 5180            | 1.932     | 1.951       | 99.03          | 0.04                              | 0.03                  |
|                  |         | 5200            | 1.932     | 1.951       | 99.03          | 0.04                              | 0.03                  |
|                  |         | 5240            | 1.932     | 1.951       | 99.03          | 0.04                              | 0.03                  |
| 802.11ac (VHT40) | SISO    | 5190            | 1.544     | 1.563       | 98.78          | 0.05                              | 0.03                  |
|                  |         | 5230            | 1.543     | 1.563       | 98.72          | 0.06                              | 0.03                  |
| 802.11ac (VHT80) | SISO    | 5210            | 2.240     | 2.260       | 99.12          | 0.04                              | 0.04                  |

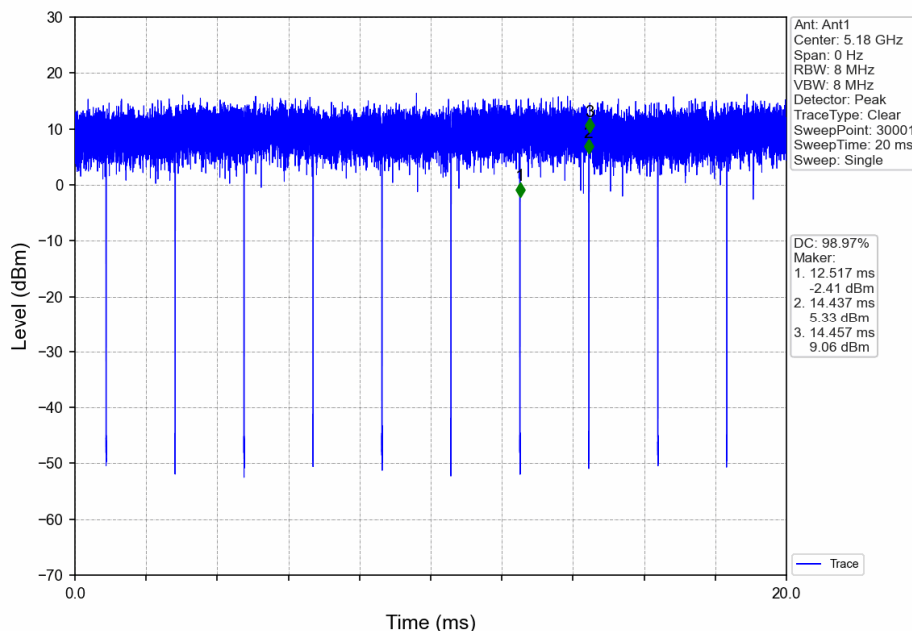
### 1.1.2 Test Graph



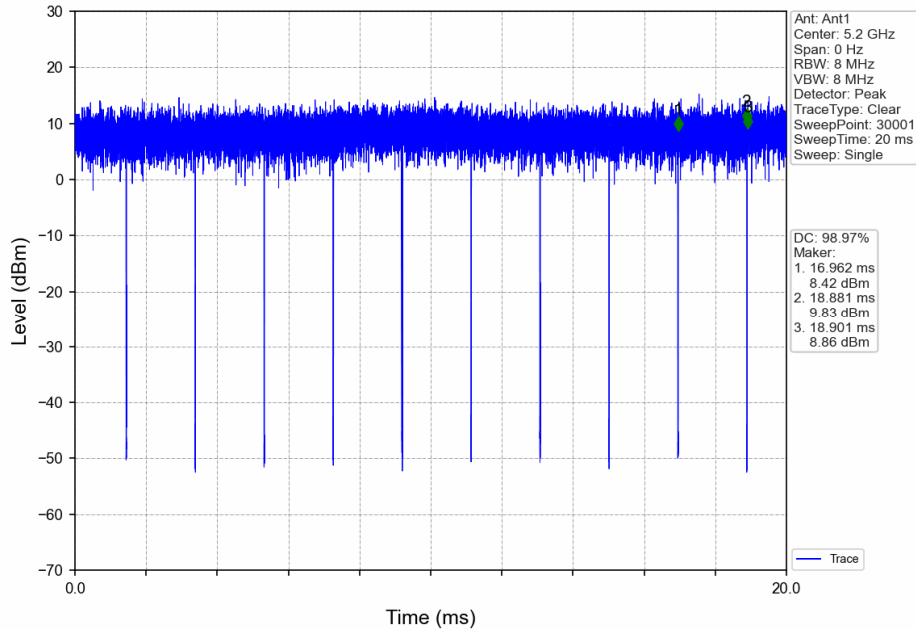
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



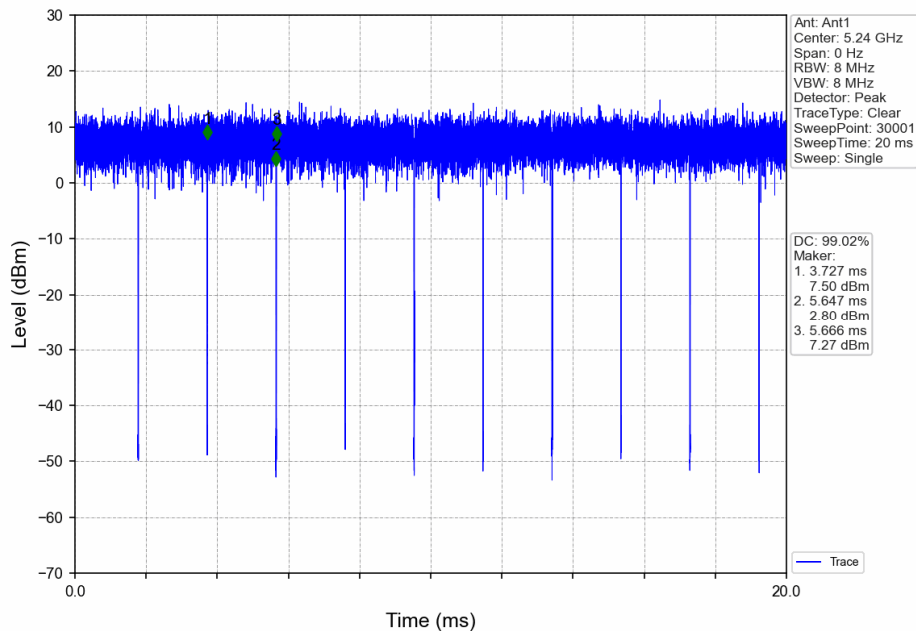
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



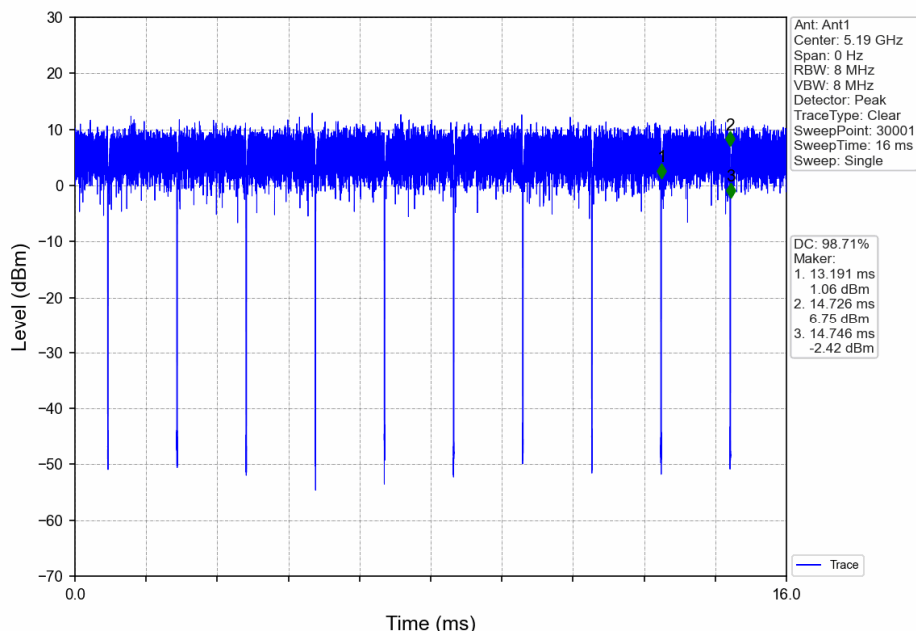
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



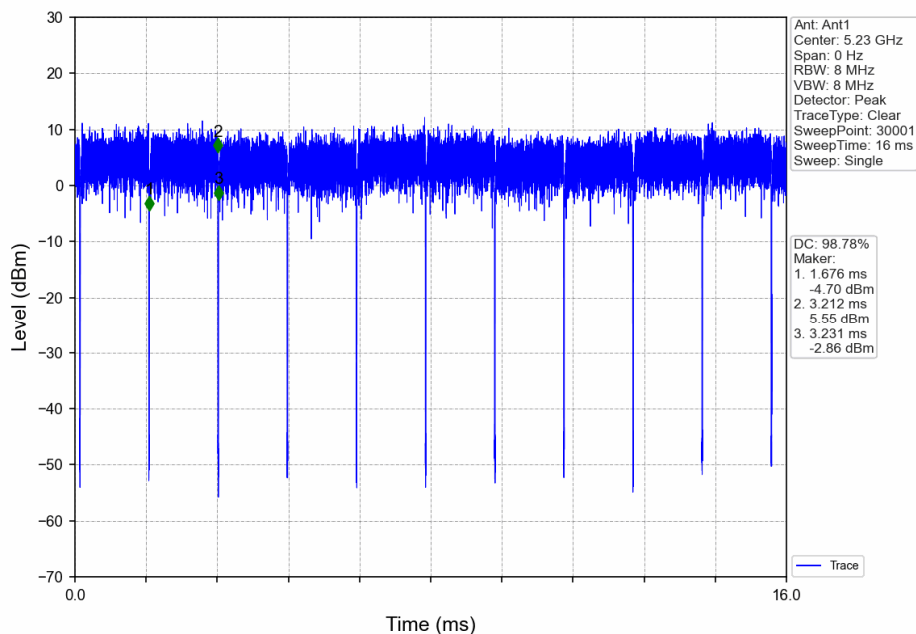
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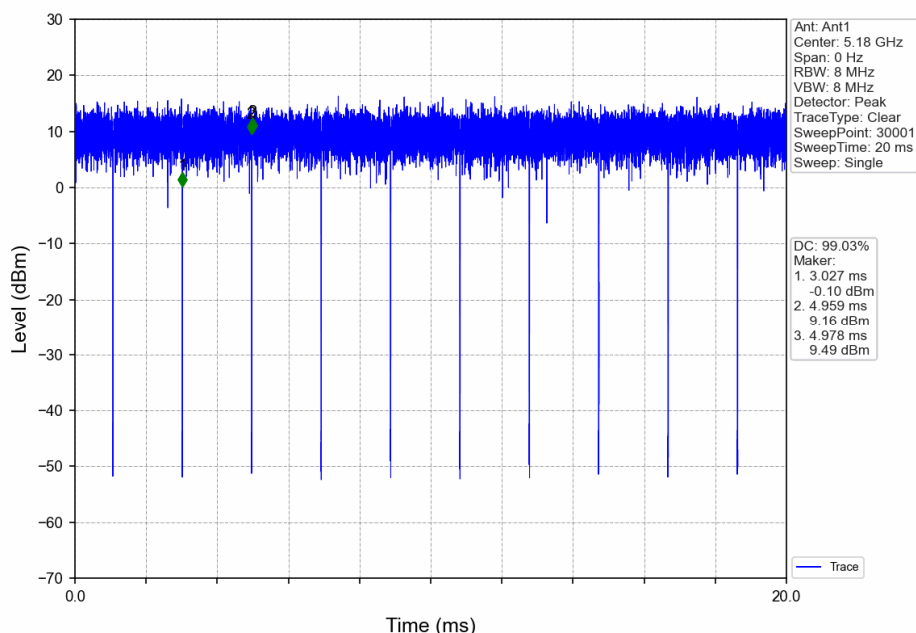
### 802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



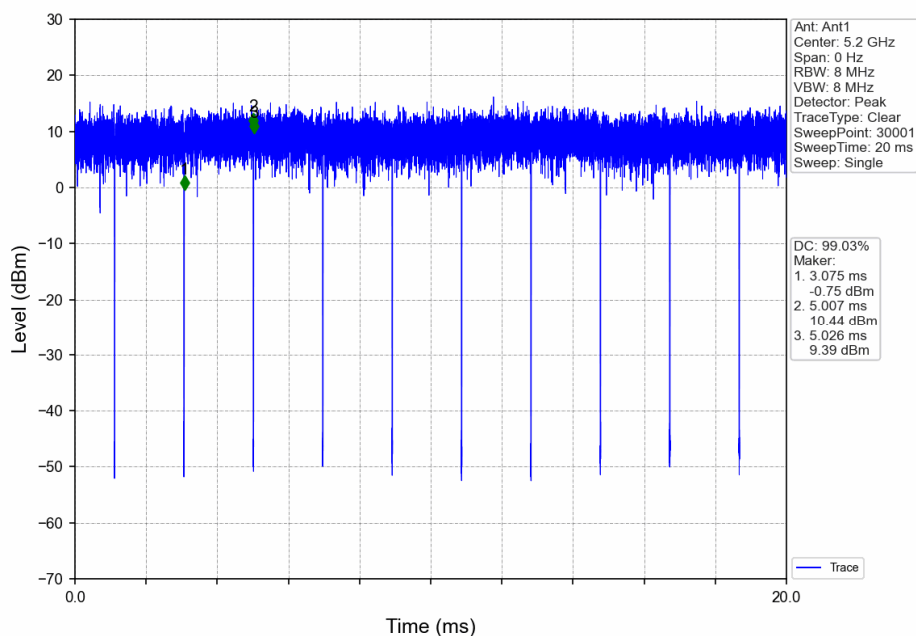
### 802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



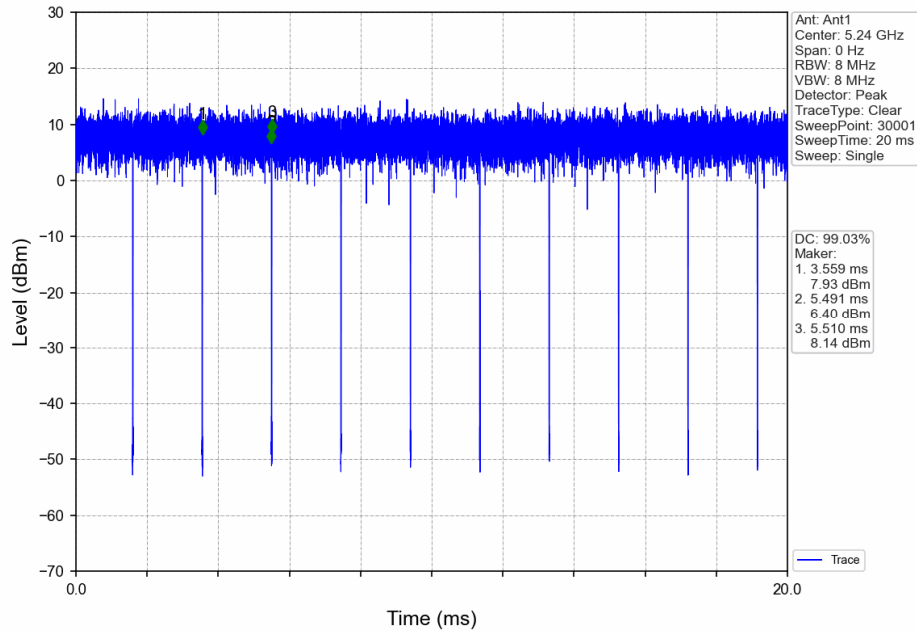
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



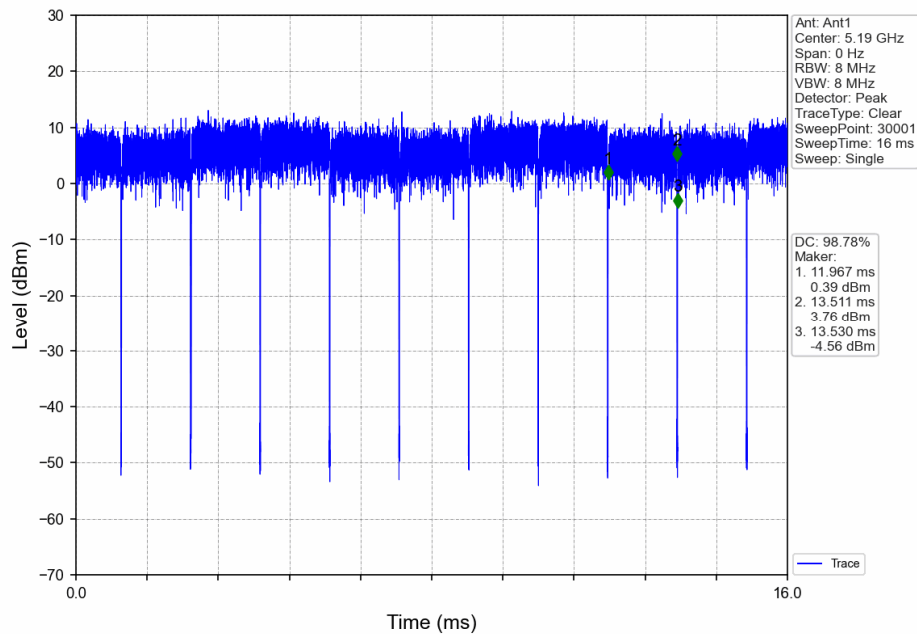
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



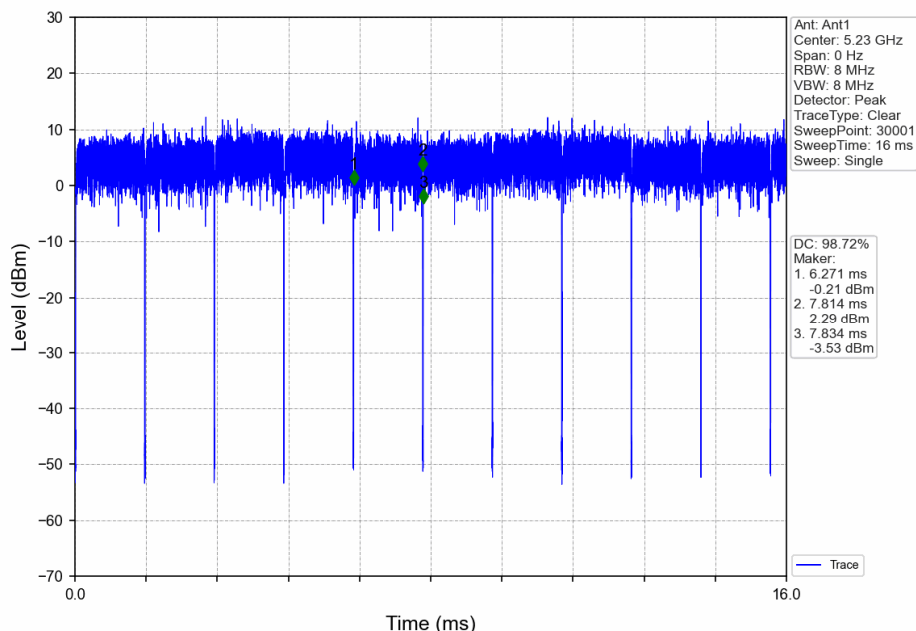
### 802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



### 802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV

