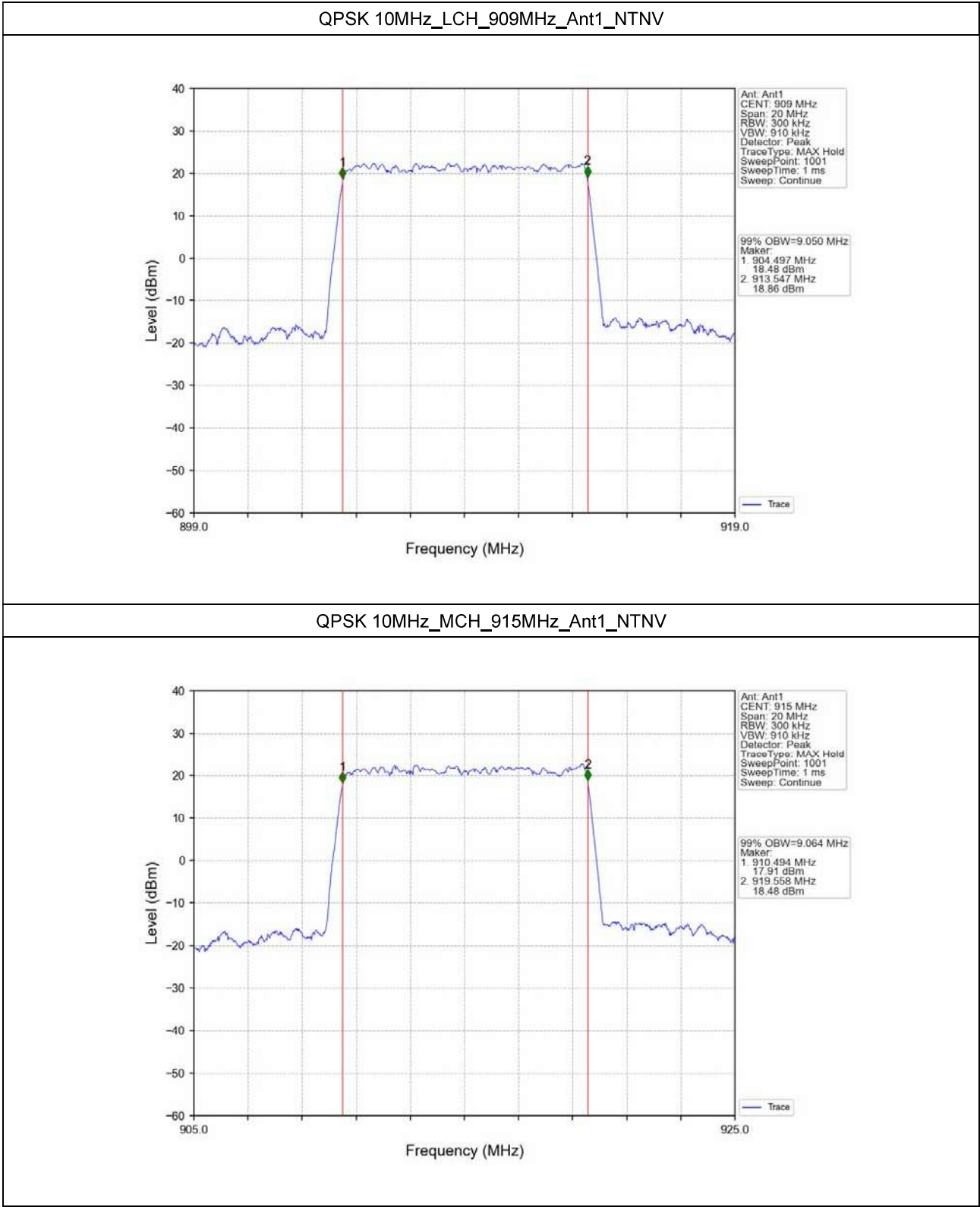
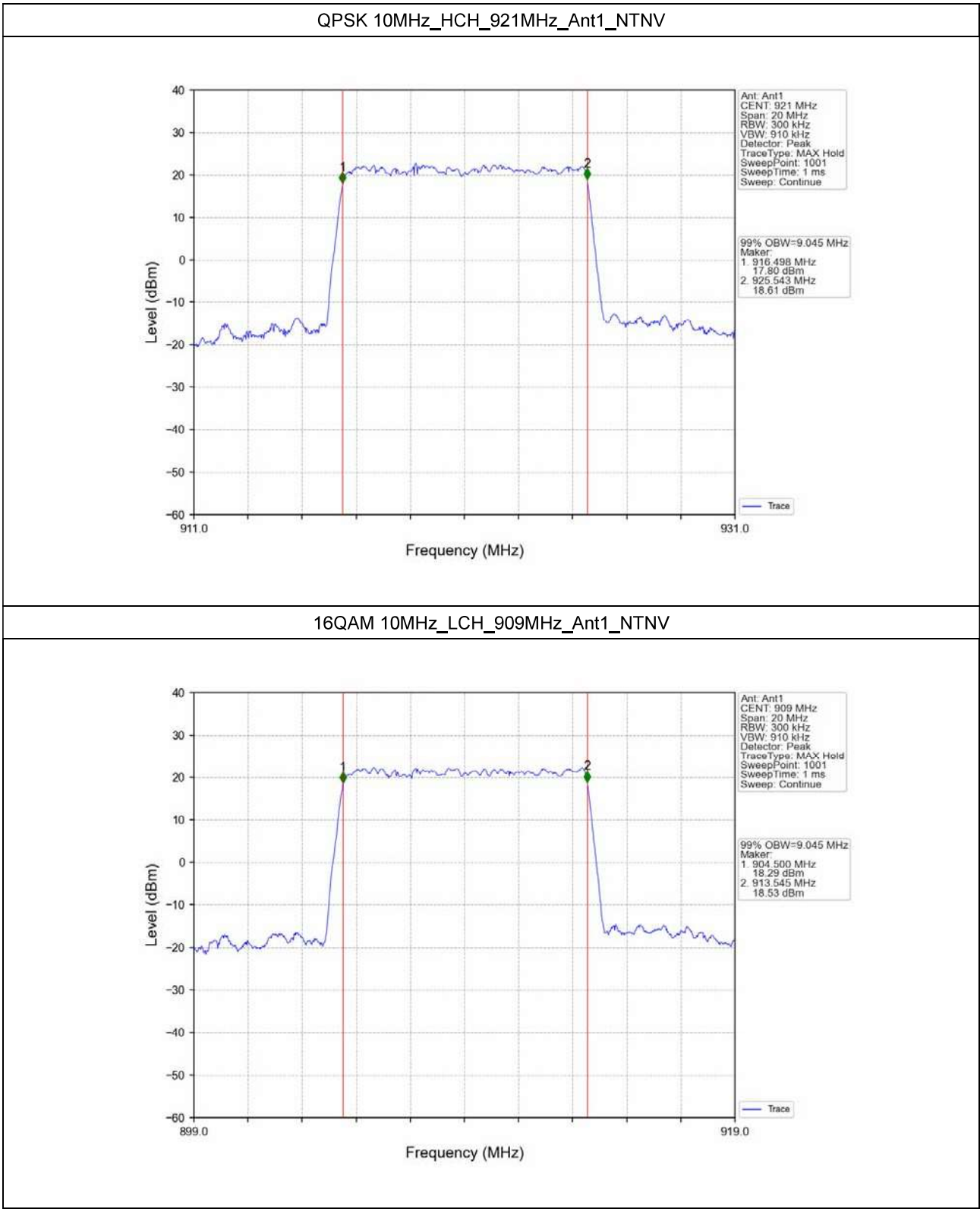




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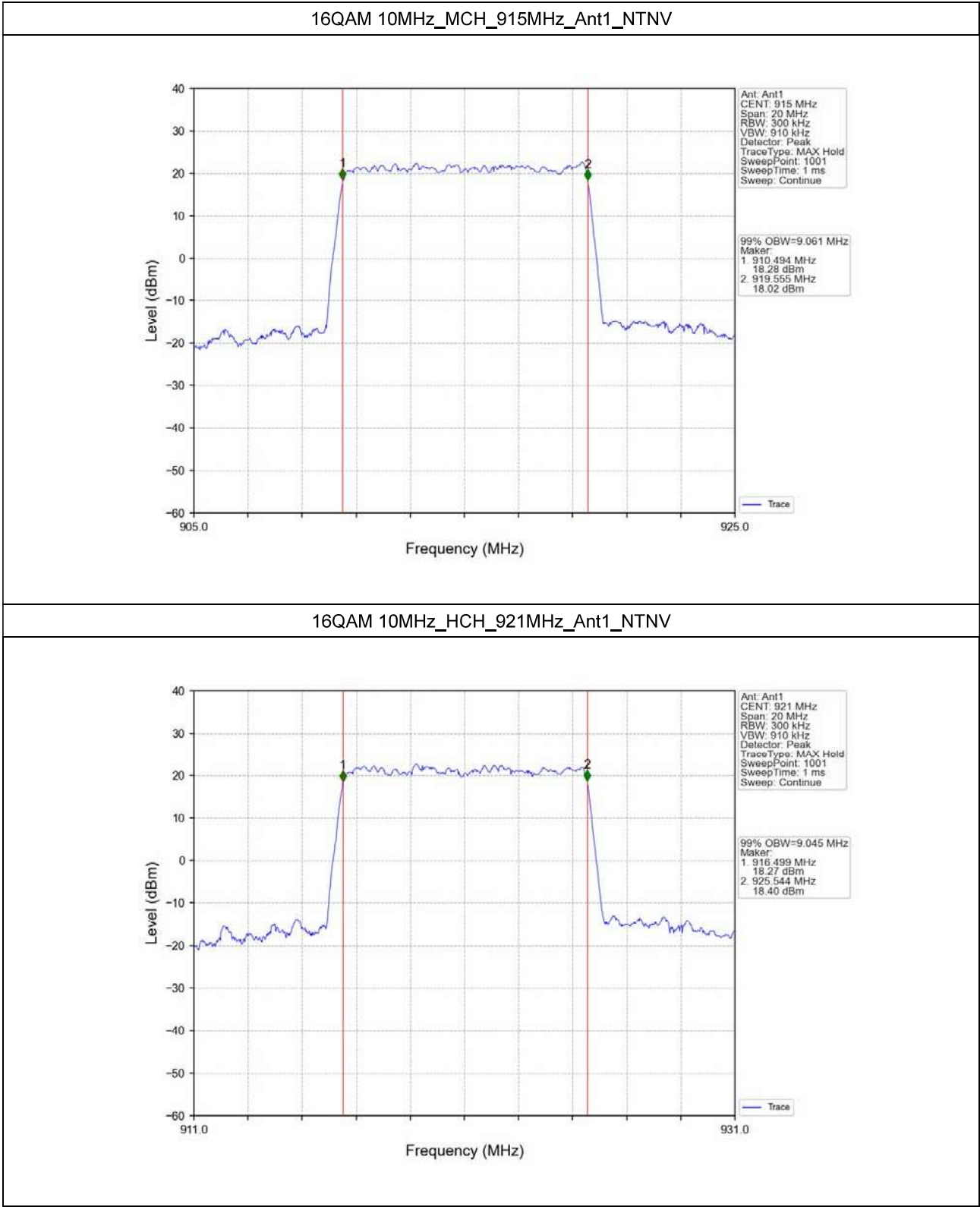
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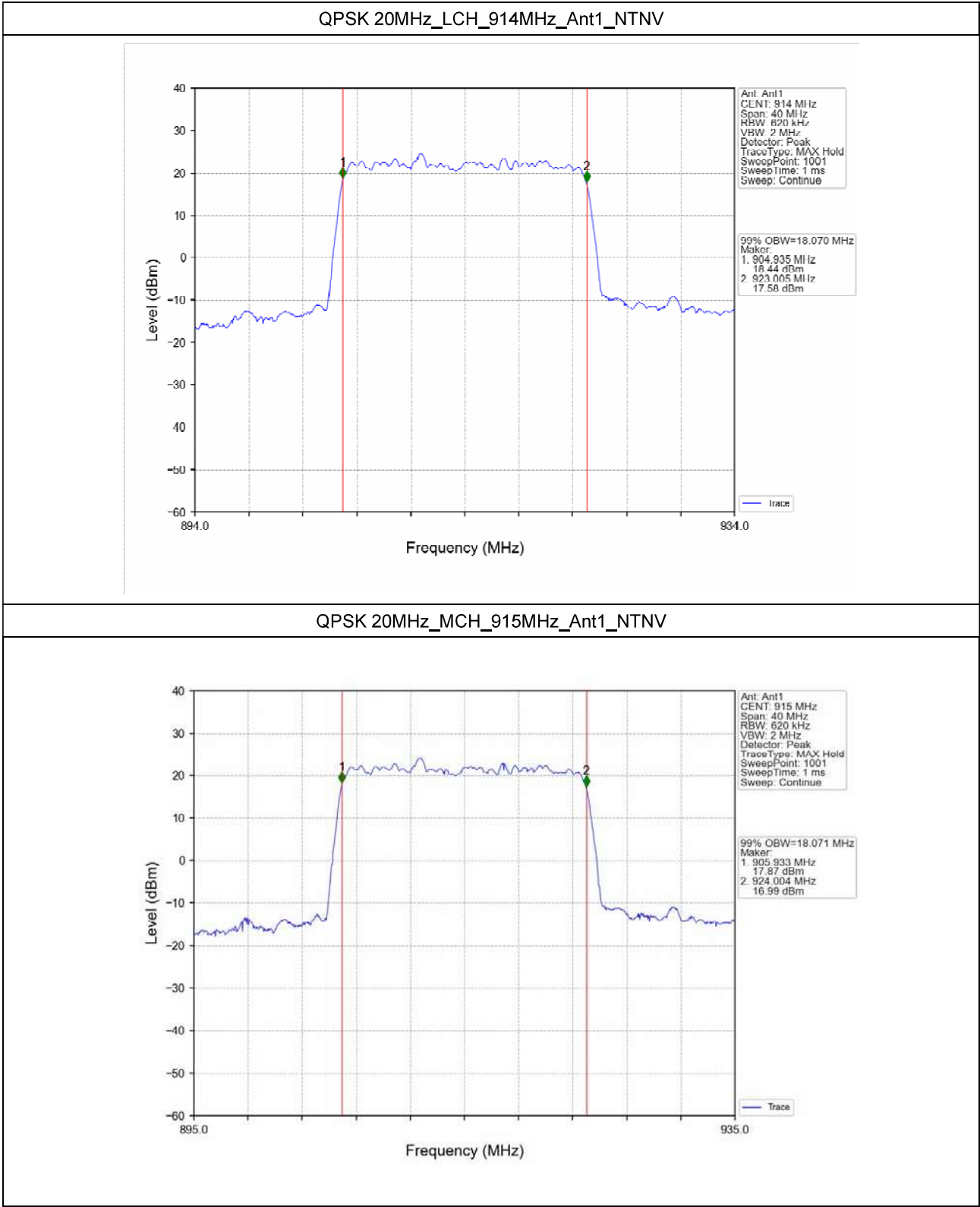
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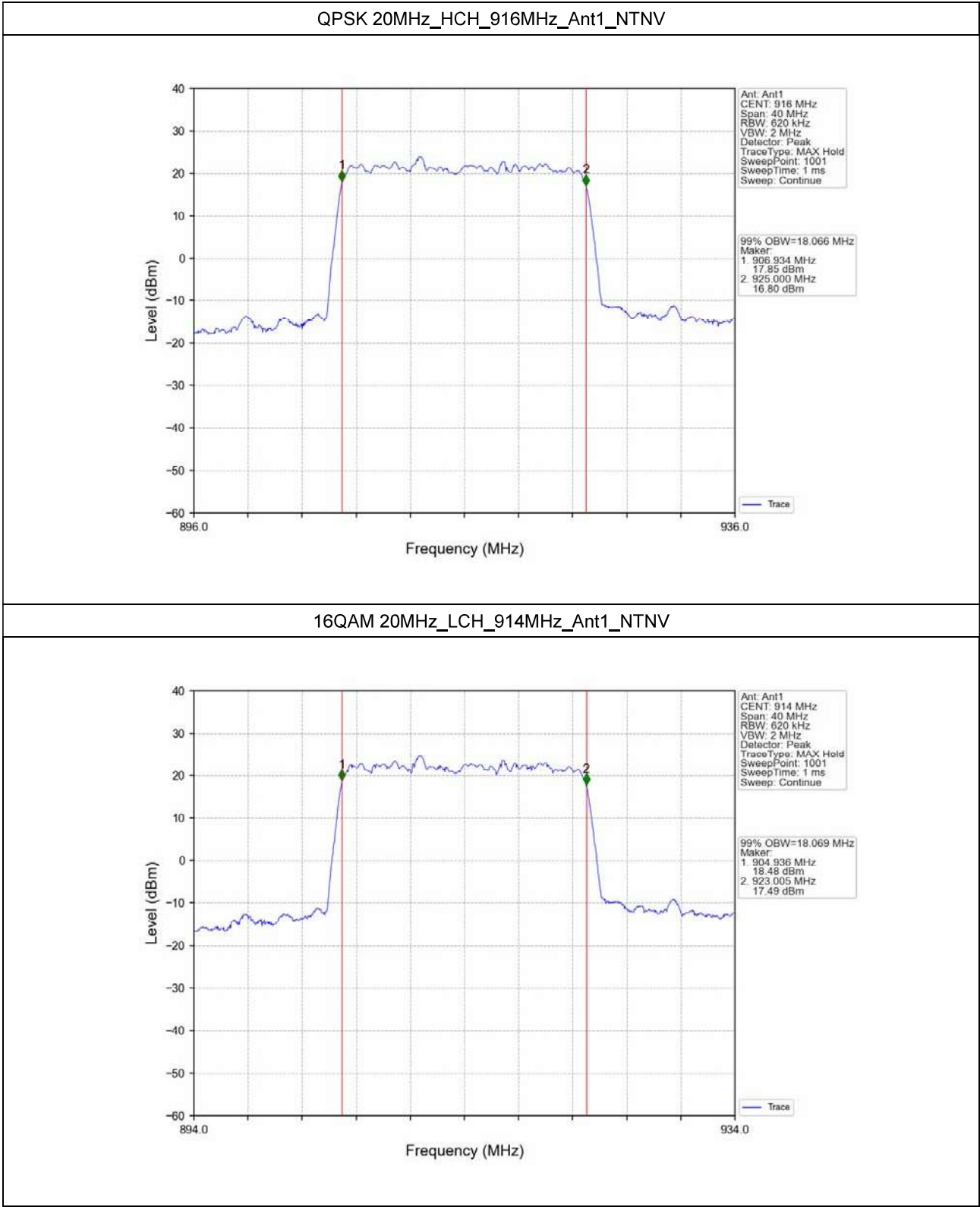
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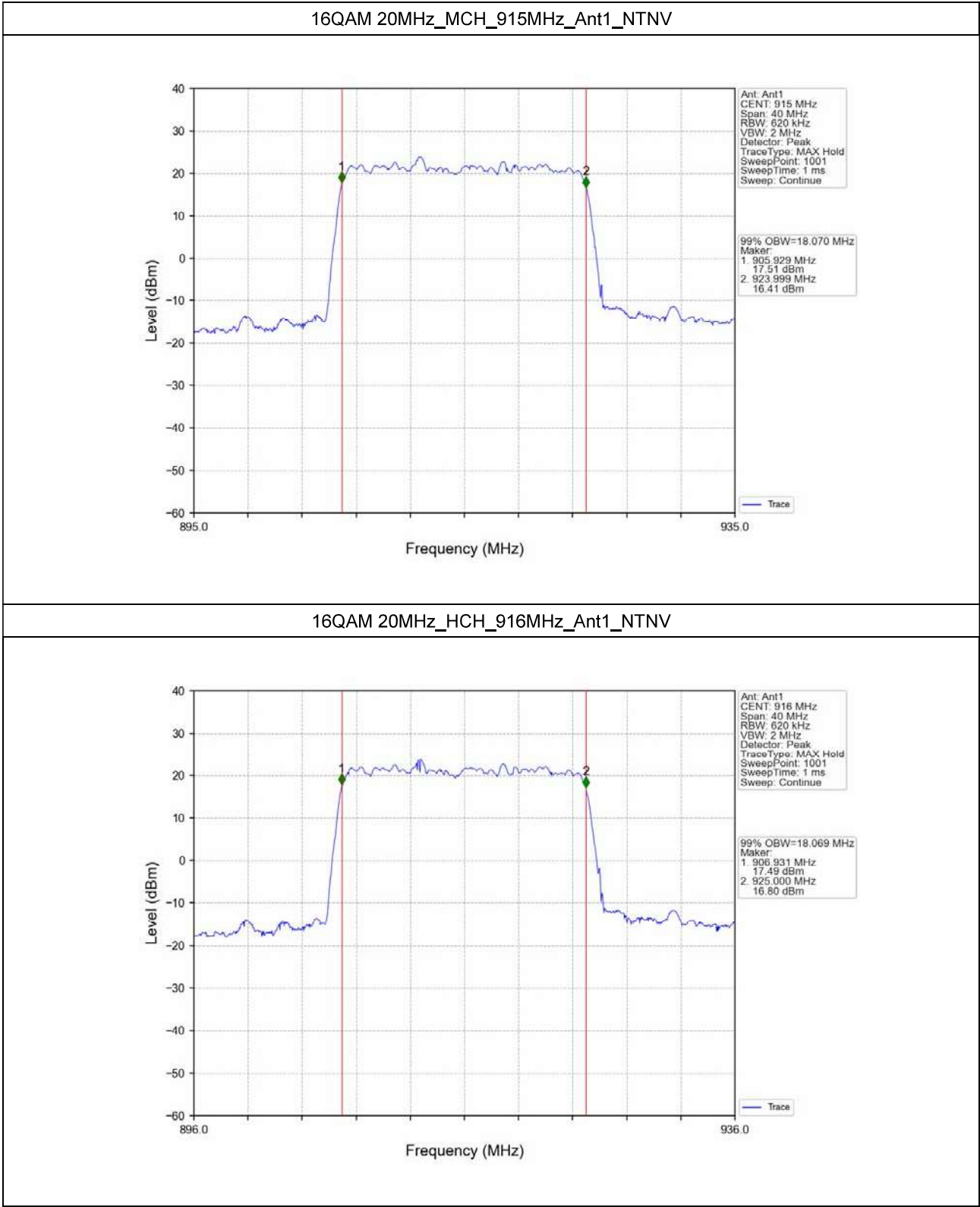
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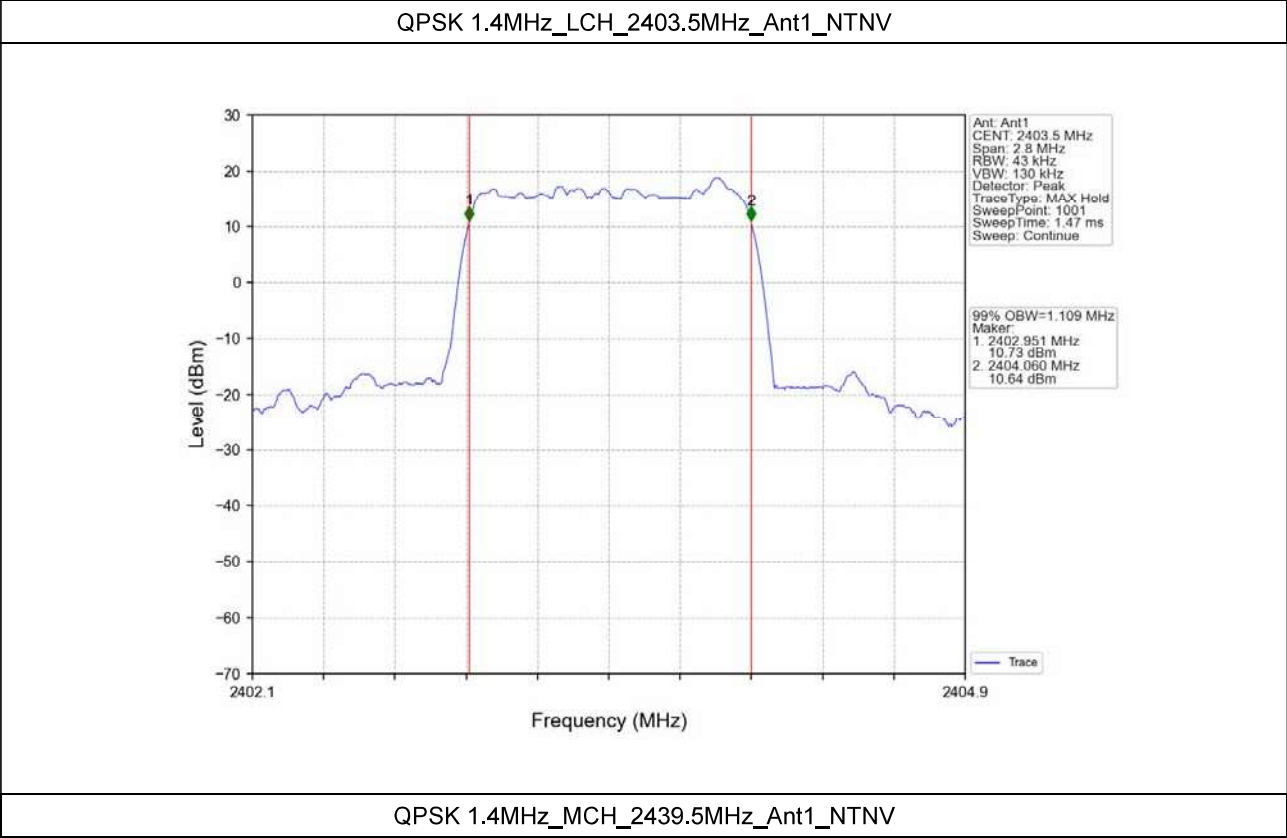
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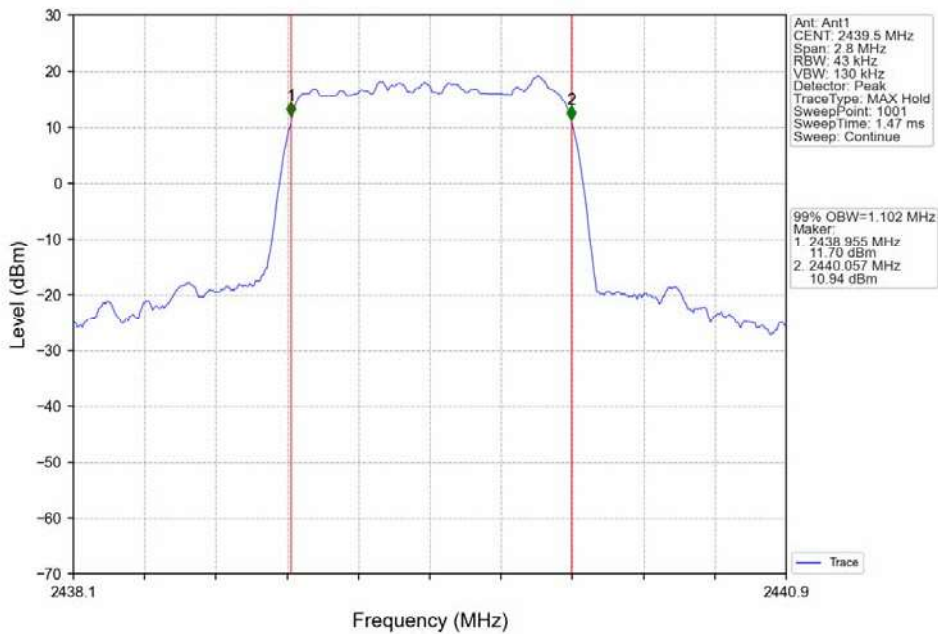
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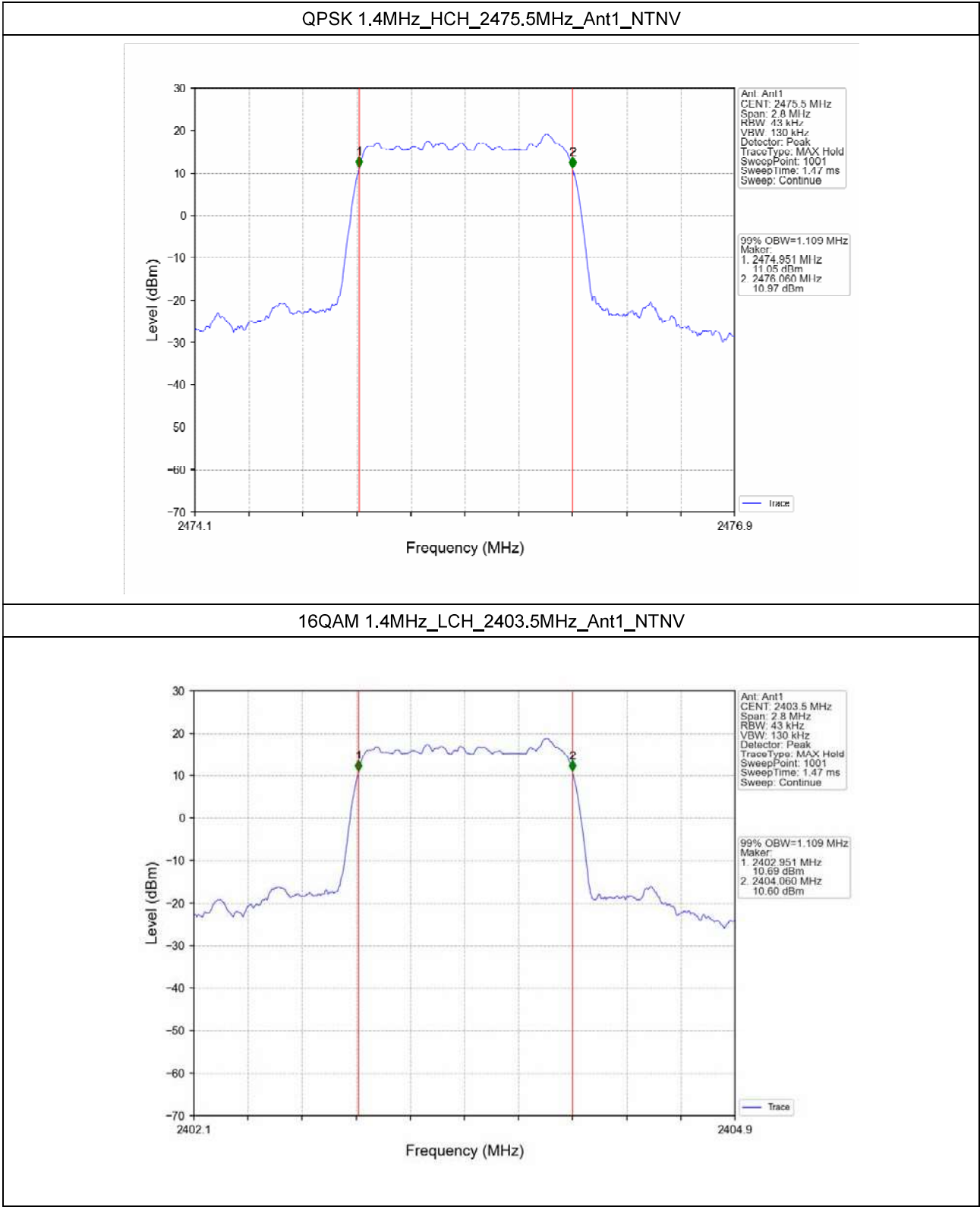
2.4G transfer image



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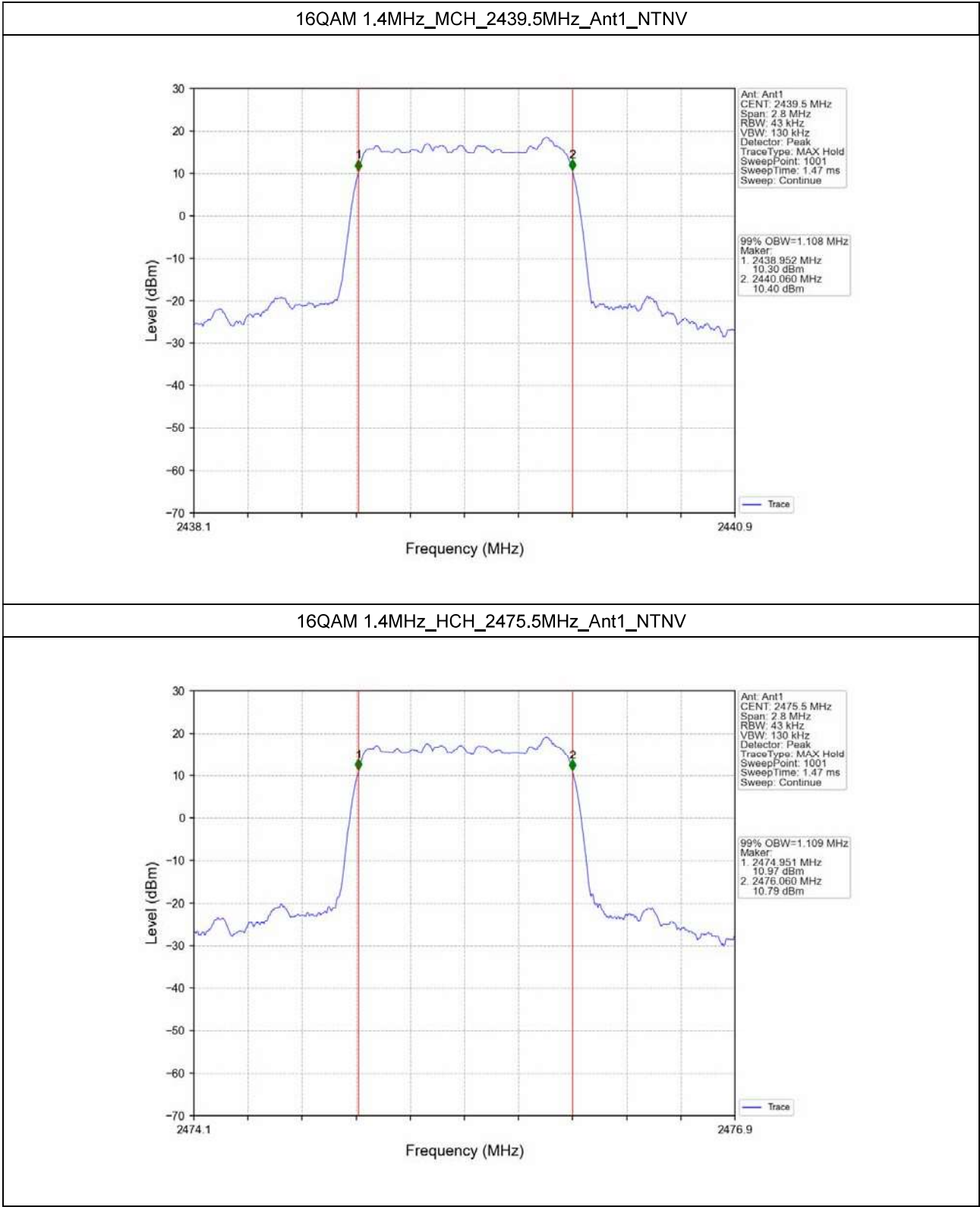
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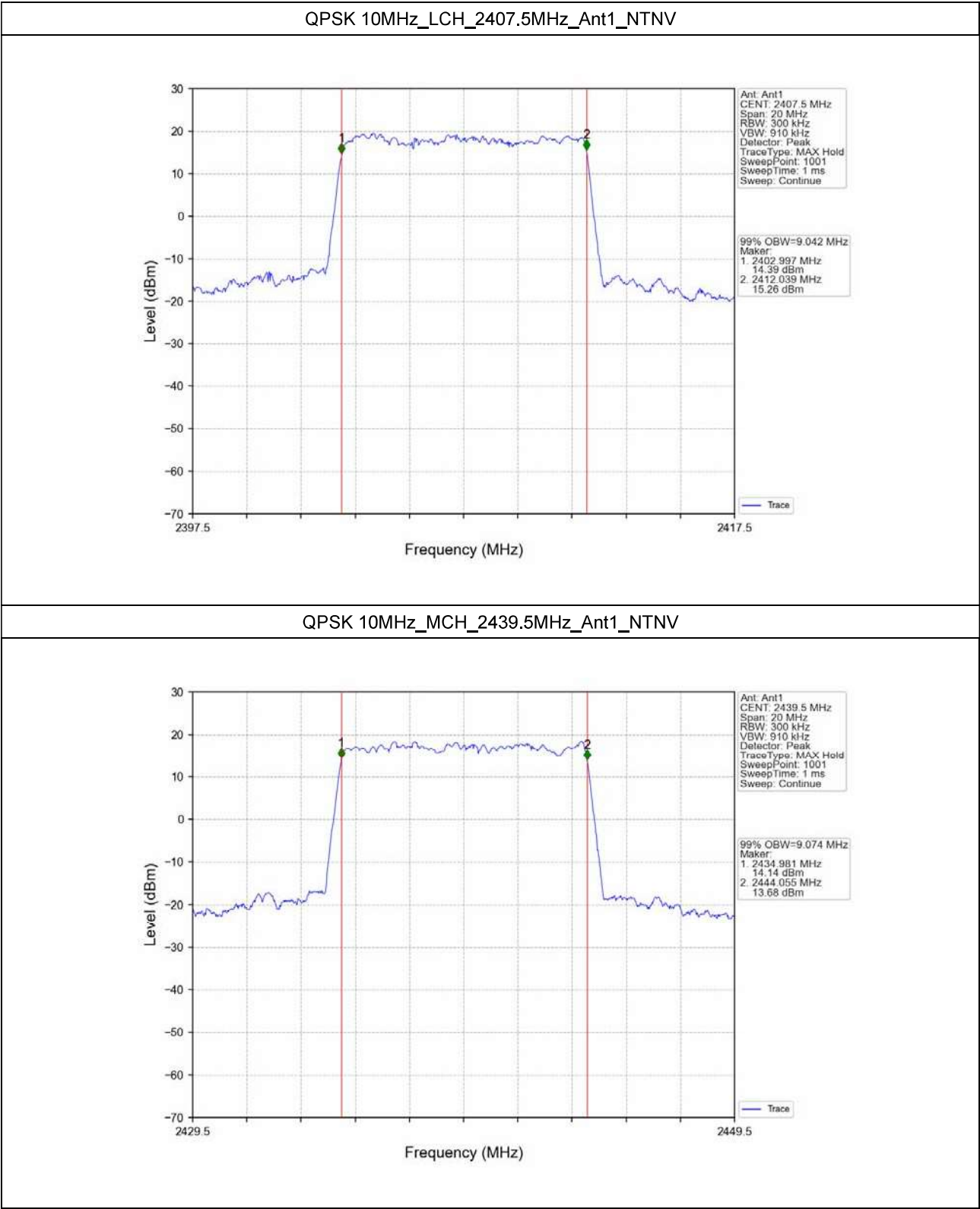
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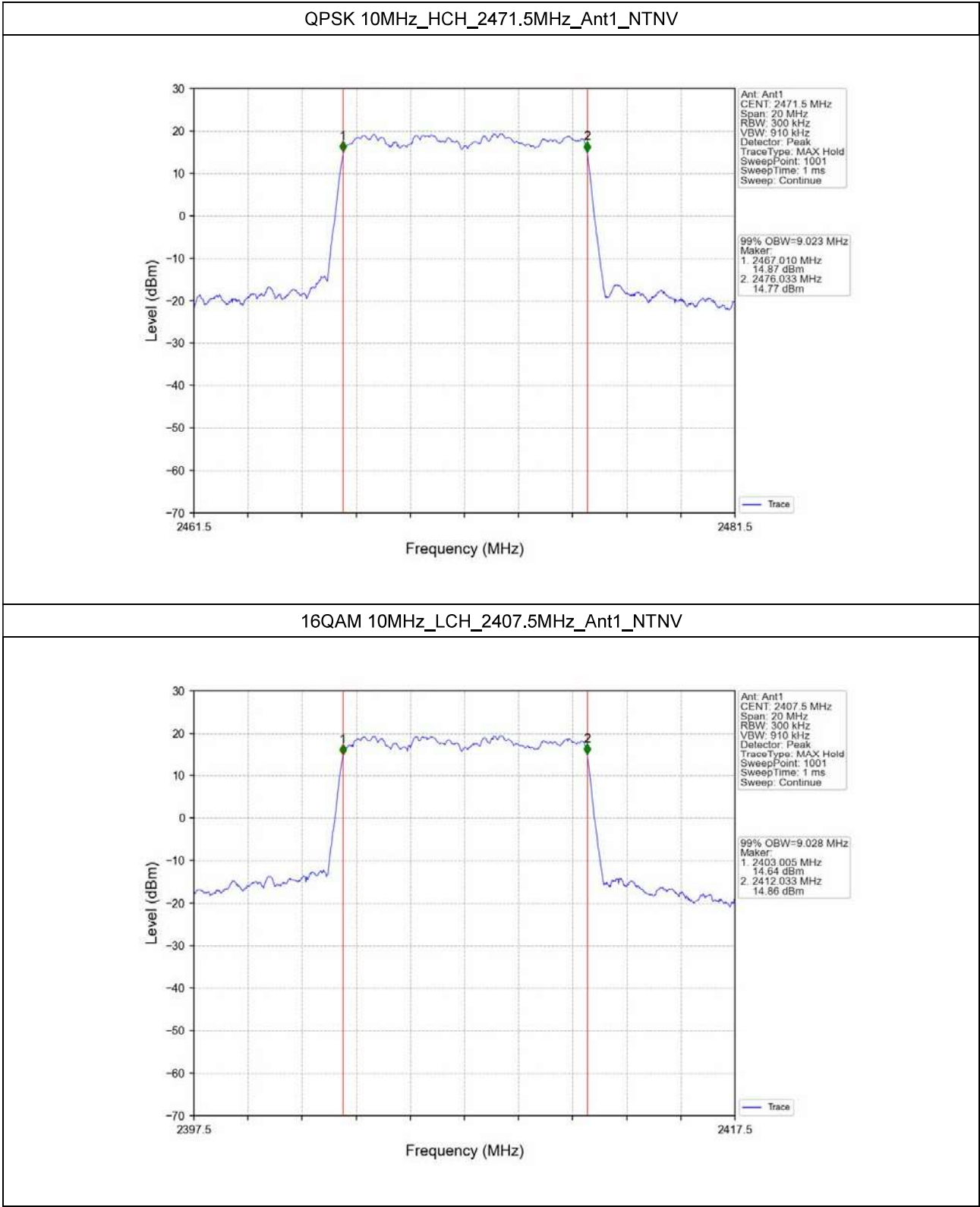
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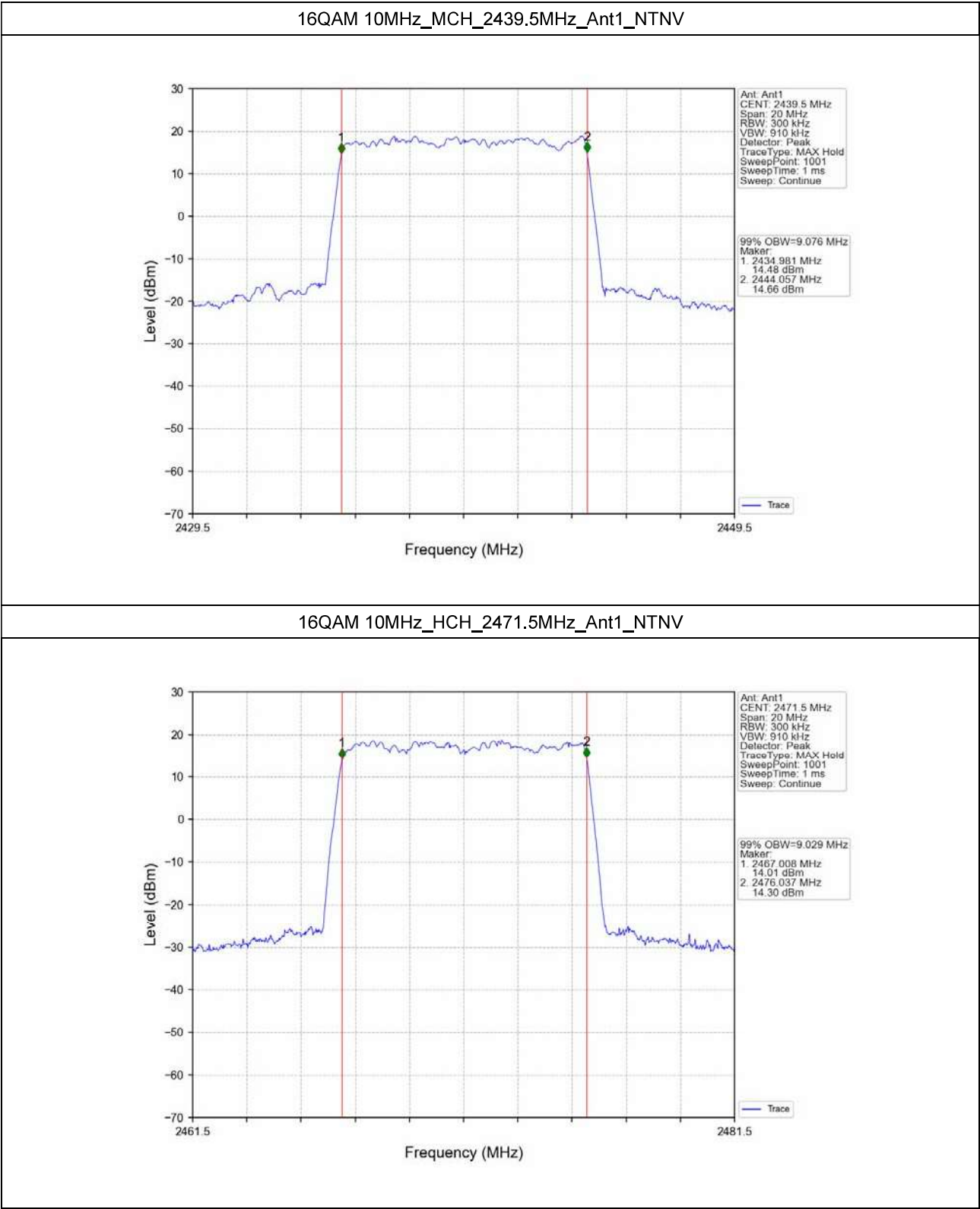
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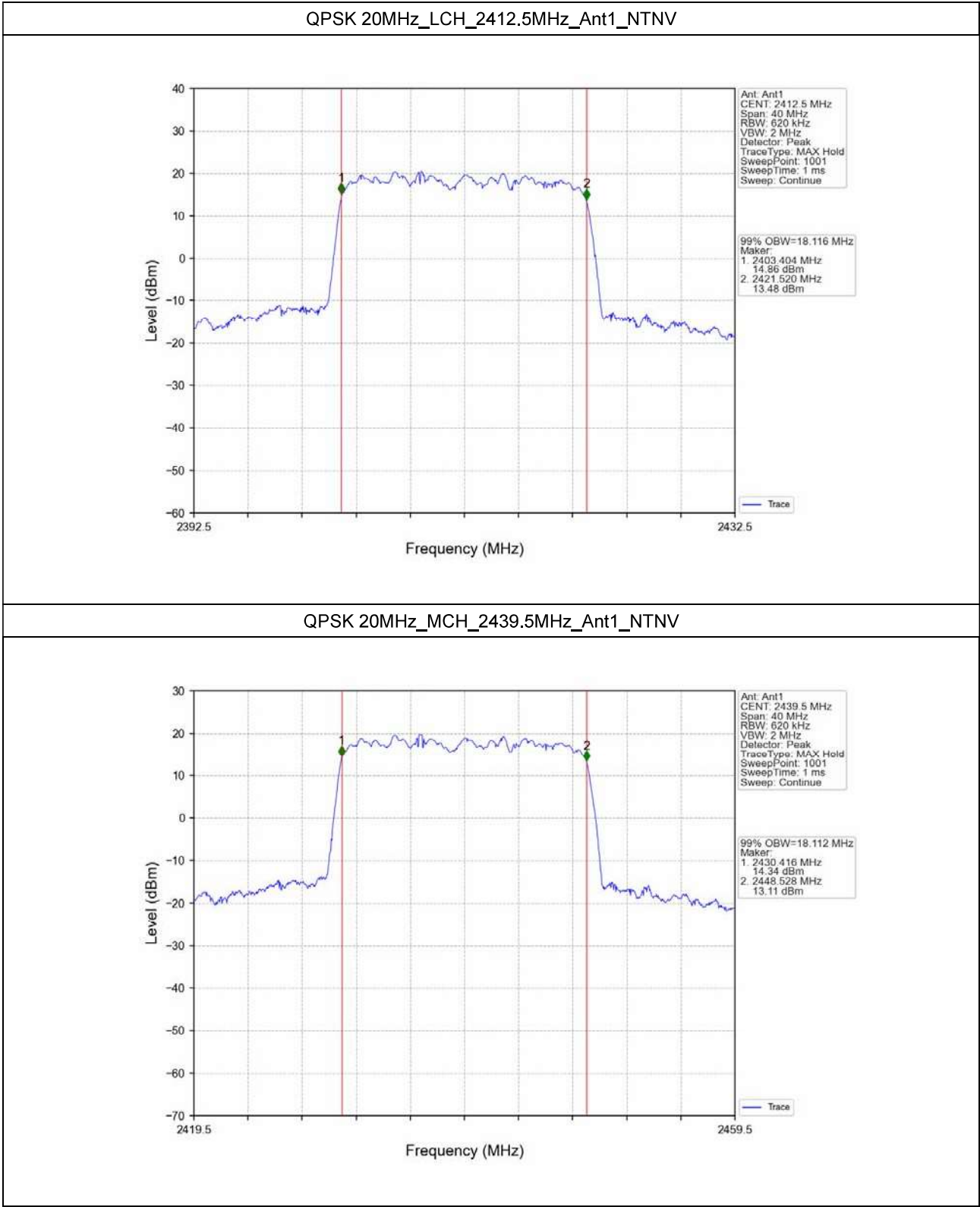
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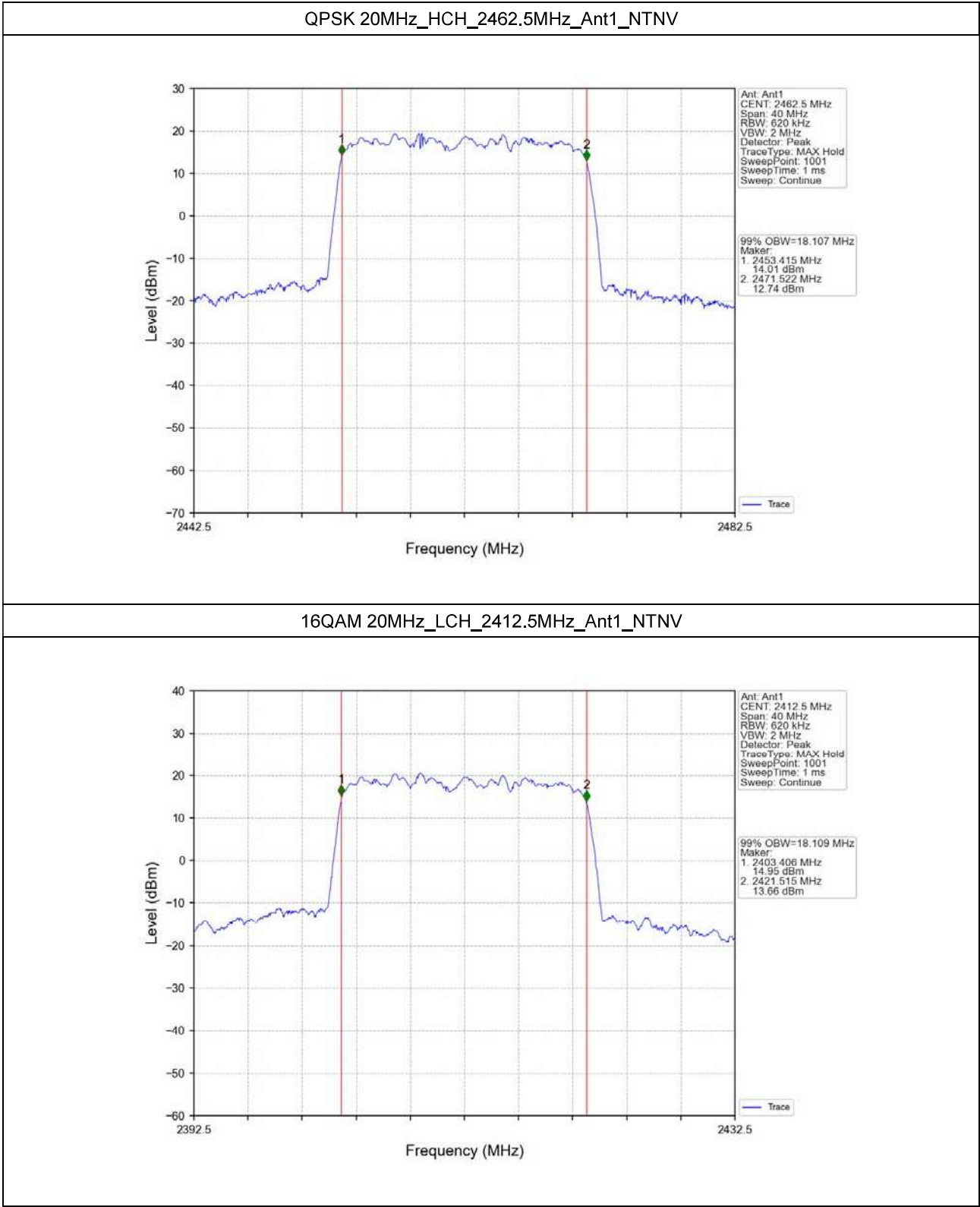
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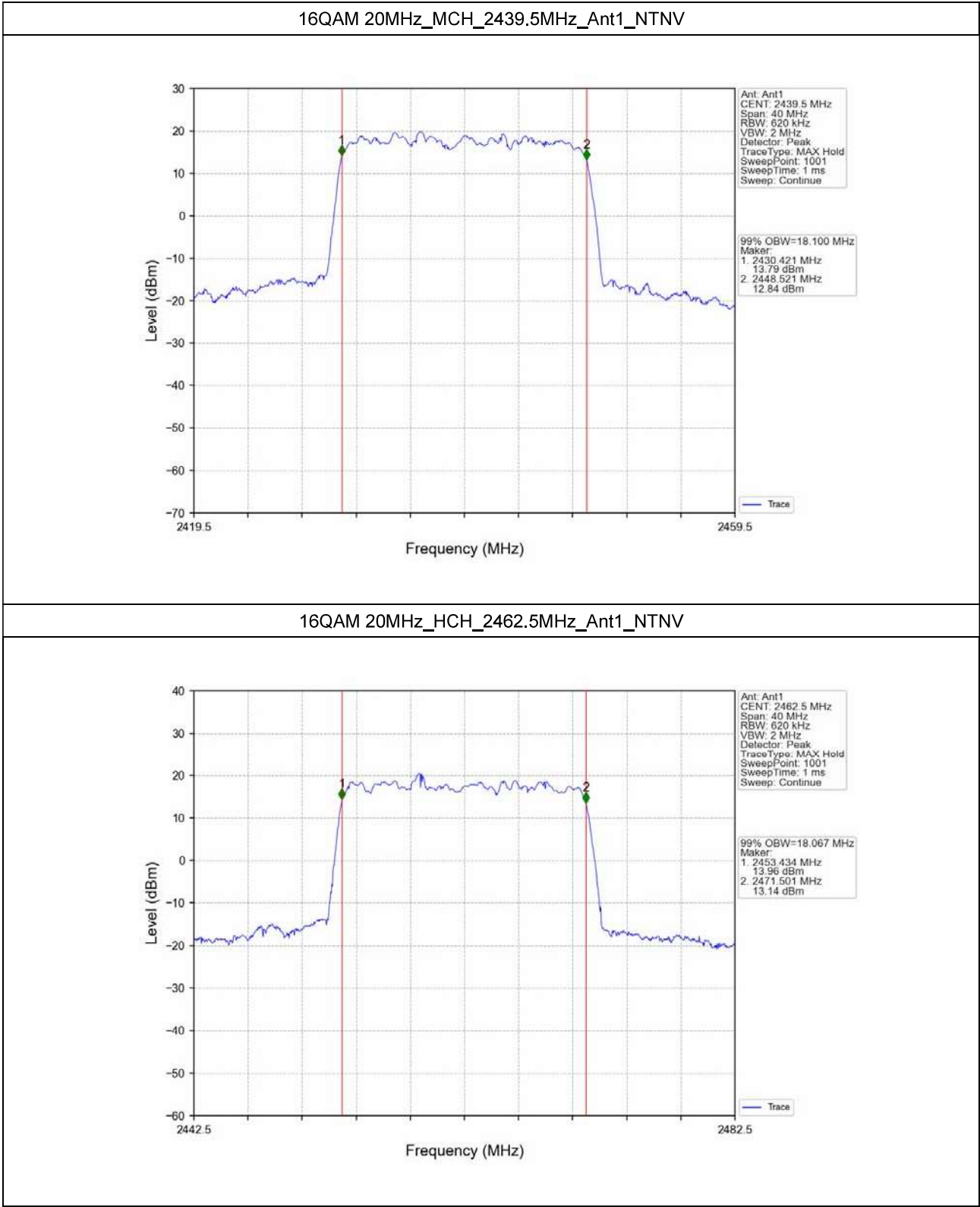
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16QAM 20MHz\_HCH\_2462.5MHz\_Ant1\_NTNV

Ant: Ant1  
CENT: 2462.5 MHz  
Span: 40 MHz  
RBW: 620 kHz  
VBW: 2 MHz  
Detector: Peak  
TraceType: MAX Hold  
SweepPoint: 1001  
SweepTime: 1 ms  
Sweep: Continue99% OBW=18.067 MHz  
Maker:  
1. 2453.434 MHz  
13.96 dBm  
2. 2471.501 MHz  
13.14 dBm

Trace

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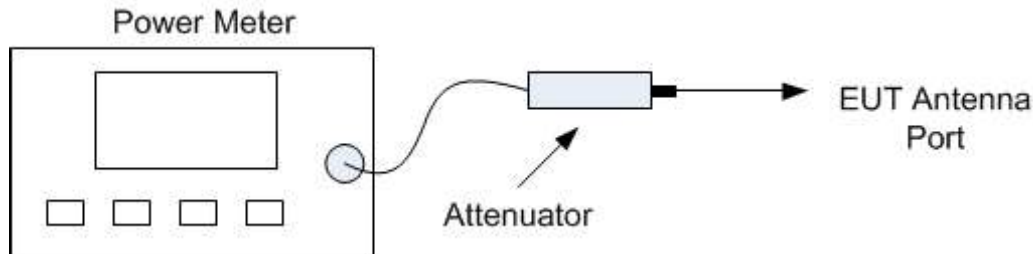
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## 8.0 Maximum Output Power and equivalent isotropically radiated power (e.i.r.p.)

### 8.1 Test Setup



### 8.2 Limits

The Maximum Output Power limit is 30dBm and e.i.r.p limit is 36dBm

### 8.3 Test Procedure

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

### 8.4Test Results

2.4G wifi

| Mode           | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |        | EIRP(dBm) |       | Verdict |
|----------------|---------|-----------------|----------------------------------------------|--------|-----------|-------|---------|
|                |         |                 | ANT1                                         | Limit  | ANT1      | Limit |         |
| 802.11b        | SISO    | 2412            | 21.33                                        | <=29.3 | 28.03     | <=36  | Pass    |
|                |         | 2437            | 21.71                                        | <=29.3 | 28.41     | <=36  | Pass    |
|                |         | 2462            | 21.53                                        | <=29.3 | 28.23     | <=36  | Pass    |
| 802.11g        | SISO    | 2412            | 15.40                                        | <=29.3 | 22.10     | <=36  | Pass    |
|                |         | 2437            | 15.59                                        | <=29.3 | 22.29     | <=36  | Pass    |
|                |         | 2462            | 15.50                                        | <=29.3 | 22.20     | <=36  | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 16.95                                        | <=29.3 | 23.65     | <=36  | Pass    |
|                |         | 2437            | 17.16                                        | <=29.3 | 23.86     | <=36  | Pass    |
|                |         | 2462            | 16.99                                        | <=29.3 | 23.69     | <=36  | Pass    |

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### 900M transfer image

For External Antenna

| Mode            | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |       | EIRP(dBm) |       | Verdict |
|-----------------|---------|-----------------|----------------------------------------------|-------|-------|-------|-----------|-------|---------|
|                 |         |                 | ANT1                                         | ANT2  | MIMO  | Limit | MIMO      | Limit |         |
| QPSK<br>1.4MHz  | MIMO    | 904             | 22.15                                        | 21.08 | 24.66 | <=30  | 29.96     | <=36  | Pass    |
|                 |         | 915             | 21.92                                        | 20.22 | 24.16 | <=30  | 29.16     | <=36  | Pass    |
|                 |         | 926             | 22.45                                        | 19.31 | 24.17 | <=30  | 29.17     | <=36  | Pass    |
| 16QAM<br>1.4MHz | MIMO    | 904             | 22.13                                        | 21.05 | 24.63 | <=30  | 29.96     | <=36  | Pass    |
|                 |         | 915             | 21.90                                        | 20.18 | 24.13 | <=30  | 29.13     | <=36  | Pass    |
|                 |         | 926             | 22.21                                        | 19.15 | 23.95 | <=30  | 28.95     | <=36  | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |       | EIRP(dBm) |       | Verdict |
|----------------|---------|-----------------|----------------------------------------------|-------|-------|-------|-----------|-------|---------|
|                |         |                 | ANT1                                         | ANT2  | MIMO  | Limit | MIMO      | Limit |         |
| QPSK<br>10MHz  | MIMO    | 909             | 22.45                                        | 20.66 | 24.66 | <=30  | 29.86     | <=36  | Pass    |
|                |         | 915             | 22.58                                        | 20.61 | 24.72 | <=30  | 29.72     | <=36  | Pass    |
|                |         | 921             | 22.58                                        | 20.21 | 24.57 | <=30  | 29.57     | <=36  | Pass    |
| 16QAM<br>10MHz | MIMO    | 909             | 22.53                                        | 20.78 | 24.75 | <=30  | 29.75     | <=36  | Pass    |
|                |         | 915             | 22.53                                        | 20.59 | 24.68 | <=30  | 29.68     | <=36  | Pass    |
|                |         | 921             | 22.53                                        | 20.19 | 24.53 | <=30  | 29.53     | <=36  | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |       | EIRP(dBm) |       | Verdict |
|----------------|---------|-----------------|----------------------------------------------|-------|-------|-------|-----------|-------|---------|
|                |         |                 | ANT1                                         | ANT2  | MIMO  | Limit | MIMO      | Limit |         |
| QPSK<br>20MHz  | MIMO    | 914             | 22.47                                        | 21.16 | 24.87 | <=30  | 30.17     | <=36  | Pass    |
|                |         | 915             | 22.25                                        | 20.24 | 24.37 | <=30  | 29.37     | <=36  | Pass    |
|                |         | 916             | 22.16                                        | 20.03 | 24.23 | <=30  | 29.23     | <=36  | Pass    |
| 16QAM<br>20MHz | MIMO    | 914             | 22.38                                        | 21.12 | 24.81 | <=30  | 30.15     | <=36  | Pass    |
|                |         | 915             | 22.15                                        | 20.13 | 24.27 | <=30  | 29.27     | <=36  | Pass    |
|                |         | 916             | 22.11                                        | 20.03 | 24.20 | <=30  | 29.20     | <=36  | Pass    |

Note1: All transmit signals are completely uncorrelated

Note2: External Antenna Gain: Ant1: 5dBi; Ant2: 5dBi; Directional Gain = 5 dBi

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For PCB Antenna

| Mode            | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |       | EIRP(dBm) |       | Verdict |
|-----------------|---------|-----------------|----------------------------------------------|-------|-------|-------|-----------|-------|---------|
|                 |         |                 | ANT1                                         | ANT2  | MIMO  | Limit | MIMO      | Limit |         |
| QPSK<br>1.4MHz  | MIMO    | 904             | 22.32                                        | 21.25 | 24.83 | <=30  | 27.93     | <=36  | Pass    |
|                 |         | 915             | 21.64                                        | 19.94 | 23.88 | <=30  | 26.98     | <=36  | Pass    |
|                 |         | 926             | 22.28                                        | 19.14 | 24.00 | <=30  | 27.10     | <=36  | Pass    |
| 16QAM<br>1.4MHz | MIMO    | 904             | 22.14                                        | 21.06 | 24.64 | <=30  | 27.74     | <=36  | Pass    |
|                 |         | 915             | 21.66                                        | 19.94 | 23.89 | <=30  | 26.99     | <=36  | Pass    |
|                 |         | 926             | 22.00                                        | 18.94 | 23.74 | <=30  | 26.84     | <=36  | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |       | EIRP(dBm) |       | Verdict |
|----------------|---------|-----------------|----------------------------------------------|-------|-------|-------|-----------|-------|---------|
|                |         |                 | ANT1                                         | ANT2  | MIMO  | Limit | MIMO      | Limit |         |
| QPSK<br>10MHz  | MIMO    | 909             | 22.41                                        | 20.62 | 24.62 | <=30  | 27.72     | <=36  | Pass    |
|                |         | 915             | 22.41                                        | 20.44 | 24.55 | <=30  | 27.65     | <=36  | Pass    |
|                |         | 921             | 22.25                                        | 19.88 | 24.24 | <=30  | 27.34     | <=36  | Pass    |
| 16QAM<br>10MHz | MIMO    | 909             | 22.27                                        | 20.52 | 24.49 | <=30  | 27.59     | <=36  | Pass    |
|                |         | 915             | 22.22                                        | 20.28 | 24.37 | <=30  | 27.47     | <=36  | Pass    |
|                |         | 921             | 22.28                                        | 19.94 | 24.28 | <=30  | 27.38     | <=36  | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |       | EIRP(dBm) |       | Verdict |
|----------------|---------|-----------------|----------------------------------------------|-------|-------|-------|-----------|-------|---------|
|                |         |                 | ANT1                                         | ANT2  | MIMO  | Limit | MIMO      | Limit |         |
| QPSK<br>20MHz  | MIMO    | 914             | 22.82                                        | 21.01 | 25.02 | <=30  | 28.12     | <=36  | Pass    |
|                |         | 915             | 22.06                                        | 20.05 | 24.18 | <=30  | 27.28     | <=36  | Pass    |
|                |         | 916             | 21.91                                        | 19.78 | 23.98 | <=30  | 27.08     | <=36  | Pass    |
| 16QAM<br>20MHz | MIMO    | 914             | 22.65                                        | 20.89 | 24.87 | <=30  | 27.97     | <=36  | Pass    |
|                |         | 915             | 22.04                                        | 20.02 | 24.16 | <=30  | 27.26     | <=36  | Pass    |
|                |         | 916             | 21.93                                        | 19.85 | 24.02 | <=30  | 27.12     | <=36  | Pass    |

Note1: All transmit signals are completely uncorrelated

Note2: PCB Antenna Gain: Ant1: 3.1dBi; Ant2: 3.1dBi; Directional Gain = 3.1 dBi

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## 2.4G transfer image

For External Antenna

| Mode            | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |       | EIRP(dBm) |       | Verdict |
|-----------------|---------|-----------------|----------------------------------------------|-------|-------|-------|-----------|-------|---------|
|                 |         |                 | ANT1                                         | ANT2  | MIMO  | Limit | MIMO      | Limit |         |
| QPSK<br>1.4MHz  | MIMO    | 2403.5          | 22.02                                        | 24.44 | 26.41 | <=30  | 31.41     | <=36  | Pass    |
|                 |         | 2439.5          | 22.68                                        | 23.25 | 25.98 | <=30  | 30.98     | <=36  | Pass    |
|                 |         | 2475.5          | 22.27                                        | 24.54 | 26.56 | <=30  | 31.56     | <=36  | Pass    |
| 16QAM<br>1.4MHz | MIMO    | 2403.5          | 22.03                                        | 24.47 | 26.43 | <=30  | 31.43     | <=36  | Pass    |
|                 |         | 2439.5          | 21.73                                        | 24.15 | 26.12 | <=30  | 31.12     | <=36  | Pass    |
|                 |         | 2475.5          | 22.29                                        | 24.48 | 26.53 | <=30  | 31.53     | <=36  | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |       | EIRP(dBm)    |       | Verdict |
|----------------|---------|-----------------|----------------------------------------------|-------|-------|-------|--------------|-------|---------|
|                |         |                 | ANT1                                         | ANT2  | MIMO  | Limit | MIMO         | Limit |         |
| QPSK<br>10MHz  | MIMO    | 2407.5          | 23.88                                        | 25.37 | 27.70 | <=30  | <b>32.70</b> | <=36  | Pass    |
|                |         | 2439.5          | 22.91                                        | 24.57 | 26.83 | <=30  | 31.83        | <=36  | Pass    |
|                |         | 2471.5          | 23.62                                        | 24.77 | 27.24 | <=30  | 32.24        | <=36  | Pass    |
| 16QAM<br>10MHz | MIMO    | 2407.5          | 23.82                                        | 25.36 | 27.67 | <=30  | 32.67        | <=36  | Pass    |
|                |         | 2439.5          | 23.34                                        | 24.96 | 27.24 | <=30  | 32.24        | <=36  | Pass    |
|                |         | 2471.5          | 23.25                                        | 24.08 | 26.70 | <=30  | 31.70        | <=36  | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |       | EIRP(dBm) |       | Verdict |
|----------------|---------|-----------------|----------------------------------------------|-------|-------|-------|-----------|-------|---------|
|                |         |                 | ANT1                                         | ANT2  | MIMO  | Limit | MIMO      | Limit |         |
| QPSK<br>20MHz  | MIMO    | 2412.5          | 23.75                                        | 25.29 | 27.60 | <=30  | 32.60     | <=36  | Pass    |
|                |         | 2439.5          | 23.15                                        | 24.63 | 26.96 | <=30  | 31.96     | <=36  | Pass    |
|                |         | 2462.5          | 22.88                                        | 24.06 | 26.52 | <=30  | 31.52     | <=36  | Pass    |
| 16QAM<br>20MHz | MIMO    | 2412.5          | 23.70                                        | 25.30 | 27.58 | <=30  | 32.58     | <=36  | Pass    |
|                |         | 2439.5          | 23.13                                        | 24.60 | 26.94 | <=30  | 31.94     | <=36  | Pass    |
|                |         | 2462.5          | 22.92                                        | 24.22 | 26.63 | <=30  | 31.63     | <=36  | Pass    |

Note1: All transmit signals are completely uncorrelated

Note2: External Antenna Gain: Ant1: 5dBi; Ant2: 5dBi; Directional Gain = 5 dBi

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For PCB Antenna

| Mode            | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |       | EIRP(dBm) |       | Verdict |
|-----------------|---------|-----------------|----------------------------------------------|-------|-------|-------|-----------|-------|---------|
|                 |         |                 | ANT1                                         | ANT2  | MIMO  | Limit | MIMO      | Limit |         |
| QPSK<br>1.4MHz  | MIMO    | 2403.5          | 21.74                                        | 24.16 | 26.13 | <=30  | 29.23     | <=36  | Pass    |
|                 |         | 2439.5          | 22.53                                        | 23.10 | 25.83 | <=30  | 28.93     | <=36  | Pass    |
|                 |         | 2475.5          | 21.94                                        | 24.21 | 26.23 | <=30  | 29.33     | <=36  | Pass    |
| 16QAM<br>1.4MHz | MIMO    | 2403.5          | 21.82                                        | 24.26 | 26.22 | <=30  | 29.32     | <=36  | Pass    |
|                 |         | 2439.5          | 21.64                                        | 24.06 | 26.03 | <=30  | 29.13     | <=36  | Pass    |
|                 |         | 2475.5          | 22.12                                        | 24.31 | 26.13 | <=30  | 29.46     | <=36  | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |       | EIRP(dBm)    |       | Verdict |
|----------------|---------|-----------------|----------------------------------------------|-------|-------|-------|--------------|-------|---------|
|                |         |                 | ANT1                                         | ANT2  | MIMO  | Limit | MIMO         | Limit |         |
| QPSK<br>10MHz  | MIMO    | 2407.5          | 23.73                                        | 25.22 | 27.55 | <=30  | <b>30.65</b> | <=36  | Pass    |
|                |         | 2439.5          | 22.69                                        | 24.35 | 26.61 | <=30  | 29.71        | <=36  | Pass    |
|                |         | 2471.5          | 23.51                                        | 24.66 | 27.13 | <=30  | 30.23        | <=36  | Pass    |
| 16QAM<br>10MHz | MIMO    | 2407.5          | 23.64                                        | 25.18 | 27.49 | <=30  | 30.59        | <=36  | Pass    |
|                |         | 2439.5          | 23.02                                        | 24.64 | 26.92 | <=30  | 30.02        | <=36  | Pass    |
|                |         | 2471.5          | 23.18                                        | 24.01 | 26.63 | <=30  | 29.73        | <=36  | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |       | EIRP(dBm) |       | Verdict |
|----------------|---------|-----------------|----------------------------------------------|-------|-------|-------|-----------|-------|---------|
|                |         |                 | ANT1                                         | ANT2  | MIMO  | Limit | MIMO      | Limit |         |
| QPSK<br>20MHz  | MIMO    | 2412.5          | 23.67                                        | 25.21 | 27.52 | <=30  | 30.62     | <=36  | Pass    |
|                |         | 2439.5          | 22.91                                        | 24.39 | 26.72 | <=30  | 29.82     | <=36  | Pass    |
|                |         | 2462.5          | 22.71                                        | 23.89 | 26.35 | <=30  | 29.45     | <=36  | Pass    |
| 16QAM<br>20MHz | MIMO    | 2412.5          | 23.38                                        | 24.98 | 27.26 | <=30  | 30.36     | <=36  | Pass    |
|                |         | 2439.5          | 22.88                                        | 24.35 | 26.69 | <=30  | 29.79     | <=36  | Pass    |
|                |         | 2462.5          | 22.80                                        | 24.10 | 26.51 | <=30  | 29.61     | <=36  | Pass    |

Note1: All transmit signals are completely uncorrelated

Note2: PCB Antenna Gain: Ant1: 3.1dBi; Ant2: 3.1dBi; Directional Gain = 3.1 dBi

The report refers only to the sample tested and does not apply to the bulk.

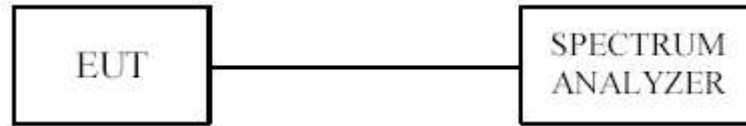
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## 9.0 Power Spectral Density Measurement

### 9.1 Test Setup



### 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

### 9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 3 kHz.
3. Set the VBW  $\geq$  10 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = RMS.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 9.4 Test Result

#### 2.4G wifi

| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |            | Verdict |
|----------------|---------|-----------------|------------------------|------------|---------|
|                |         |                 | ANT1                   | Limit      |         |
| 802.11b        | SISO    | 2412            | -9.87                  | $\leq 7.7$ | Pass    |
|                |         | 2437            | -10.02                 | $\leq 7.7$ | Pass    |
|                |         | 2462            | -9.64                  | $\leq 7.7$ | Pass    |
| 802.11g        | SISO    | 2412            | -13.26                 | $\leq 7.7$ | Pass    |
|                |         | 2437            | -13.26                 | $\leq 7.7$ | Pass    |
|                |         | 2462            | -13.09                 | $\leq 7.7$ | Pass    |
| 802.11n (HT20) | SISO    | 2412            | -15.79                 | $\leq 7.7$ | Pass    |
|                |         | 2437            | -15.88                 | $\leq 7.7$ | Pass    |
|                |         | 2462            | -15.62                 | $\leq 7.7$ | Pass    |

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### 900M transfer image

For External Antenna

| Mode            | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       |      |       | Verdict |
|-----------------|---------|-----------------|------------------------|-------|------|-------|---------|
|                 |         |                 | ANT1                   | ANT2  | MIMO | Limit |         |
| QPSK<br>1.4MHz  | MIMO    | 904             | 2.75                   | 2.06  | 5.43 | <=8   | Pass    |
|                 |         | 915             | 2.30                   | 1.01  | 4.71 | <=8   | Pass    |
|                 |         | 926             | 3.12                   | -0.01 | 4.84 | <=8   | Pass    |
| 16QAM<br>1.4MHz | MIMO    | 904             | 2.79                   | 2.10  | 5.47 | <=8   | Pass    |
|                 |         | 915             | 2.50                   | 0.89  | 4.78 | <=8   | Pass    |
|                 |         | 926             | 2.93                   | -0.07 | 4.69 | <=8   | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       |       |       | Verdict |
|----------------|---------|-----------------|------------------------|-------|-------|-------|---------|
|                |         |                 | ANT1                   | ANT2  | MIMO  | Limit |         |
| QPSK<br>10MHz  | MIMO    | 909             | -3.97                  | -5.64 | -1.72 | <=8   | Pass    |
|                |         | 915             | -4.15                  | -5.69 | -1.84 | <=8   | Pass    |
|                |         | 921             | -5.10                  | -6.84 | -2.88 | <=8   | Pass    |
| 16QAM<br>10MHz | MIMO    | 909             | -3.77                  | -6.00 | -1.74 | <=8   | Pass    |
|                |         | 915             | -4.30                  | -6.20 | -2.15 | <=8   | Pass    |
|                |         | 921             | -4.63                  | -6.21 | -2.33 | <=8   | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |        |       |       | Verdict |
|----------------|---------|-----------------|------------------------|--------|-------|-------|---------|
|                |         |                 | ANT1                   | ANT2   | MIMO  | Limit |         |
| QPSK<br>20MHz  | MIMO    | 914             | -7.78                  | -9.74  | -5.89 | <=8   | Pass    |
|                |         | 915             | -7.60                  | -9.77  | -5.67 | <=8   | Pass    |
|                |         | 916             | -8.65                  | -10.76 | -6.86 | <=8   | Pass    |
| 16QAM<br>20MHz | MIMO    | 914             | -8.71                  | -11.02 | -6.94 | <=8   | Pass    |
|                |         | 915             | -7.75                  | -10.41 | -6.27 | <=8   | Pass    |
|                |         | 916             | -8.76                  | -10.82 | -6.80 | <=8   | Pass    |

Note1: All transmit signals are completely uncorrelated

Note2: External Antenna Gain: Ant1: 5dBi; Ant2: 5dBi; Directional Gain = 5 dBi

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For PCB Antenna

| Mode            | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |      |      |       | Verdict |
|-----------------|---------|-----------------|------------------------|------|------|-------|---------|
|                 |         |                 | ANT1                   | ANT2 | MIMO | Limit |         |
| QPSK<br>1.4MHz  | MIMO    | 904             | -0.18                  | 3.03 | 4.72 | <=8   | Pass    |
|                 |         | 915             | 0.93                   | 1.45 | 4.21 | <=8   | Pass    |
|                 |         | 926             | 0.29                   | 3.11 | 4.94 | <=8   | Pass    |
| 16QAM<br>1.4MHz | MIMO    | 904             | 0.00                   | 2.79 | 4.62 | <=8   | Pass    |
|                 |         | 915             | -0.06                  | 2.85 | 4.65 | <=8   | Pass    |
|                 |         | 926             | 0.25                   | 2.89 | 4.78 | <=8   | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       |       |       | Verdict |
|----------------|---------|-----------------|------------------------|-------|-------|-------|---------|
|                |         |                 | ANT1                   | ANT2  | MIMO  | Limit |         |
| QPSK<br>10MHz  | MIMO    | 909             | -4.97                  | -6.64 | -2.72 | <=8   | Pass    |
|                |         | 915             | -5.15                  | -6.69 | -2.84 | <=8   | Pass    |
|                |         | 921             | -6.10                  | -7.84 | -3.88 | <=8   | Pass    |
| 16QAM<br>10MHz | MIMO    | 909             | -4.77                  | -7.00 | -2.74 | <=8   | Pass    |
|                |         | 915             | -5.30                  | -7.20 | -3.15 | <=8   | Pass    |
|                |         | 921             | -5.63                  | -7.21 | -3.33 | <=8   | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |        |       |       | Verdict |
|----------------|---------|-----------------|------------------------|--------|-------|-------|---------|
|                |         |                 | ANT1                   | ANT2   | MIMO  | Limit |         |
| QPSK<br>20MHz  | MIMO    | 914             | -9.08                  | -11.04 | -7.19 | <=8   | Pass    |
|                |         | 915             | -8.90                  | -11.07 | -6.97 | <=8   | Pass    |
|                |         | 916             | -9.95                  | -12.06 | -8.16 | <=8   | Pass    |
| 16QAM<br>20MHz | MIMO    | 914             | -10.01                 | -12.32 | -8.24 | <=8   | Pass    |
|                |         | 915             | -9.05                  | -11.71 | -7.57 | <=8   | Pass    |
|                |         | 916             | -10.06                 | -12.12 | -8.10 | <=8   | Pass    |

Note1: All transmit signals are completely uncorrelated

Note2: PCB Antenna Gain: Ant1: 3.1dBi; Ant2: 3.1dBi; Directional Gain = 3.1 dBi

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## 2.4G transfer image

For External Antenna

| Mode            | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |      |      |       | Verdict |
|-----------------|---------|-----------------|------------------------|------|------|-------|---------|
|                 |         |                 | ANT1                   | ANT2 | MIMO | Limit |         |
| QPSK<br>1.4MHz  | MIMO    | 2403.5          | 0.32                   | 3.53 | 5.22 | <=8   | Pass    |
|                 |         | 2439.5          | 1.43                   | 1.95 | 4.71 | <=8   | Pass    |
|                 |         | 2475.5          | 0.79                   | 3.61 | 5.44 | <=8   | Pass    |
| 16QAM<br>1.4MHz | MIMO    | 2403.5          | 0.50                   | 3.29 | 5.12 | <=8   | Pass    |
|                 |         | 2439.5          | 0.44                   | 3.35 | 5.15 | <=8   | Pass    |
|                 |         | 2475.5          | 0.75                   | 3.39 | 5.28 | <=8   | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |      |      |       | Verdict |
|----------------|---------|-----------------|------------------------|------|------|-------|---------|
|                |         |                 | ANT1                   | ANT2 | MIMO | Limit |         |
| QPSK<br>10MHz  | MIMO    | 2407.5          | 0.43                   | 2.19 | 3.50 | <=8   | Pass    |
|                |         | 2439.5          | -0.57                  | 0.79 | 2.69 | <=8   | Pass    |
|                |         | 2471.5          | -0.22                  | 1.12 | 3.24 | <=8   | Pass    |
| 16QAM<br>10MHz | MIMO    | 2407.5          | 0.72                   | 1.89 | 4.17 | <=8   | Pass    |
|                |         | 2439.5          | -0.17                  | 1.25 | 3.22 | <=8   | Pass    |
|                |         | 2471.5          | -0.12                  | 0.39 | 2.92 | <=8   | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       |      |       | Verdict |
|----------------|---------|-----------------|------------------------|-------|------|-------|---------|
|                |         |                 | ANT1                   | ANT2  | MIMO | Limit |         |
| QPSK<br>20MHz  | MIMO    | 2412.5          | -1.82                  | 0.08  | 1.45 | <=8   | Pass    |
|                |         | 2439.5          | -2.51                  | -0.60 | 1.14 | <=8   | Pass    |
|                |         | 2462.5          | -3.20                  | -2.03 | 0.09 | <=8   | Pass    |
| 16QAM<br>20MHz | MIMO    | 2412.5          | -2.16                  | 0.01  | 1.51 | <=8   | Pass    |
|                |         | 2439.5          | -2.68                  | -1.40 | 0.37 | <=8   | Pass    |
|                |         | 2462.5          | -2.20                  | -1.39 | 0.49 | <=8   | Pass    |

Note1: All transmit signals are completely uncorrelated

Note2: External Antenna Gain: Ant1: 5dBi; Ant2: 5dBi; Directional Gain = 5 dBi

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For PCB Antenna

| Mode            | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |      |      |       | Verdict |
|-----------------|---------|-----------------|------------------------|------|------|-------|---------|
|                 |         |                 | ANT1                   | ANT2 | MIMO | Limit |         |
| QPSK<br>1.4MHz  | MIMO    | 2403.5          | 0.32                   | 3.53 | 5.22 | <=8   | Pass    |
|                 |         | 2439.5          | 1.43                   | 1.95 | 4.71 | <=8   | Pass    |
|                 |         | 2475.5          | 0.79                   | 3.61 | 5.44 | <=8   | Pass    |
| 16QAM<br>1.4MHz | MIMO    | 2403.5          | 0.50                   | 3.29 | 5.12 | <=8   | Pass    |
|                 |         | 2439.5          | 0.44                   | 3.35 | 5.15 | <=8   | Pass    |
|                 |         | 2475.5          | 0.75                   | 3.39 | 5.28 | <=8   | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       |      |       | Verdict |
|----------------|---------|-----------------|------------------------|-------|------|-------|---------|
|                |         |                 | ANT1                   | ANT2  | MIMO | Limit |         |
| QPSK<br>10MHz  | MIMO    | 2407.5          | -0.07                  | 1.69  | 3.00 | <=8   | Pass    |
|                |         | 2439.5          | -1.07                  | 0.29  | 2.19 | <=8   | Pass    |
|                |         | 2471.5          | -0.72                  | 0.62  | 2.74 | <=8   | Pass    |
| 16QAM<br>10MHz | MIMO    | 2407.5          | 0.22                   | 1.39  | 3.67 | <=8   | Pass    |
|                |         | 2439.5          | -0.67                  | 0.75  | 2.72 | <=8   | Pass    |
|                |         | 2471.5          | -2.12                  | -1.61 | 0.92 | <=8   | Pass    |

| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       |       |       | Verdict |
|----------------|---------|-----------------|------------------------|-------|-------|-------|---------|
|                |         |                 | ANT1                   | ANT2  | MIMO  | Limit |         |
| QPSK<br>20MHz  | MIMO    | 2412.5          | -2.82                  | -0.92 | 0.45  | <=8   | Pass    |
|                |         | 2439.5          | -3.51                  | -1.60 | 0.14  | <=8   | Pass    |
|                |         | 2462.5          | -4.20                  | -3.03 | -0.91 | <=8   | Pass    |
| 16QAM<br>20MHz | MIMO    | 2412.5          | -3.16                  | -0.99 | 0.51  | <=8   | Pass    |
|                |         | 2439.5          | -3.68                  | -2.40 | -0.63 | <=8   | Pass    |
|                |         | 2462.5          | -3.20                  | -2.39 | -0.51 | <=8   | Pass    |

Note1: All transmit signals are completely uncorrelated

Note2: PCB Antenna Gain: Ant1: 3.1dBi; Ant2: 3.1dBi; Directional Gain = 3.1 dBi

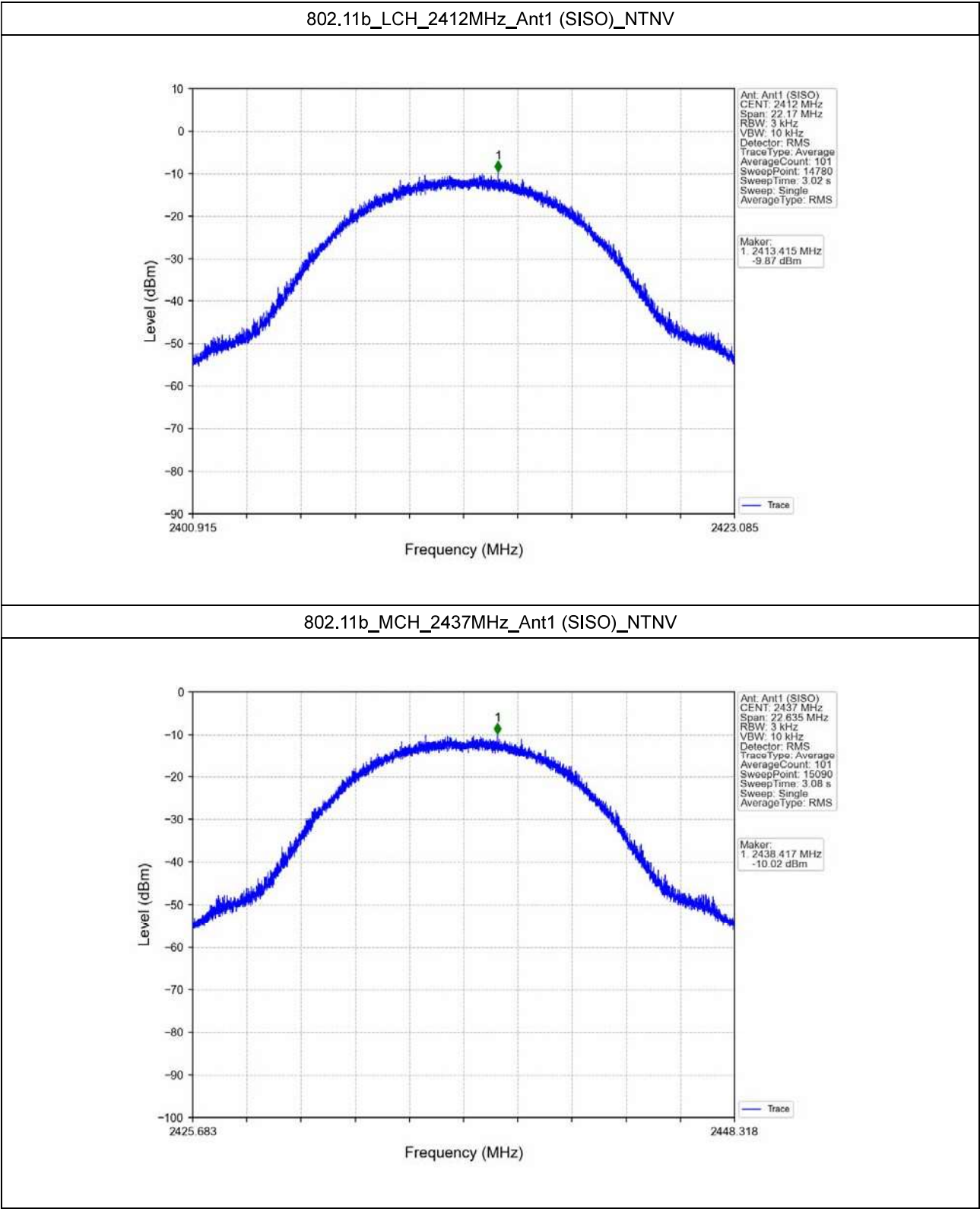
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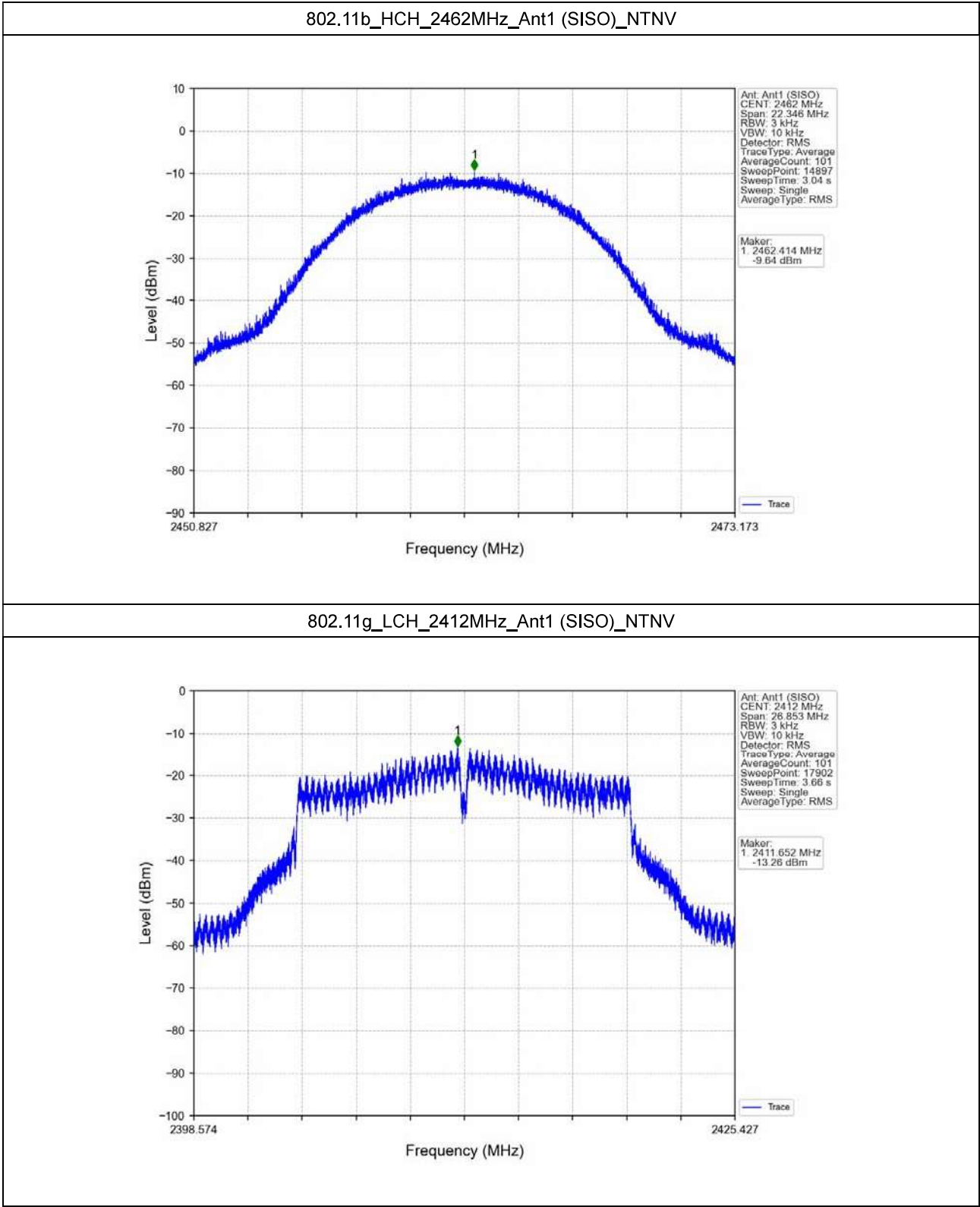
2.4G wifi



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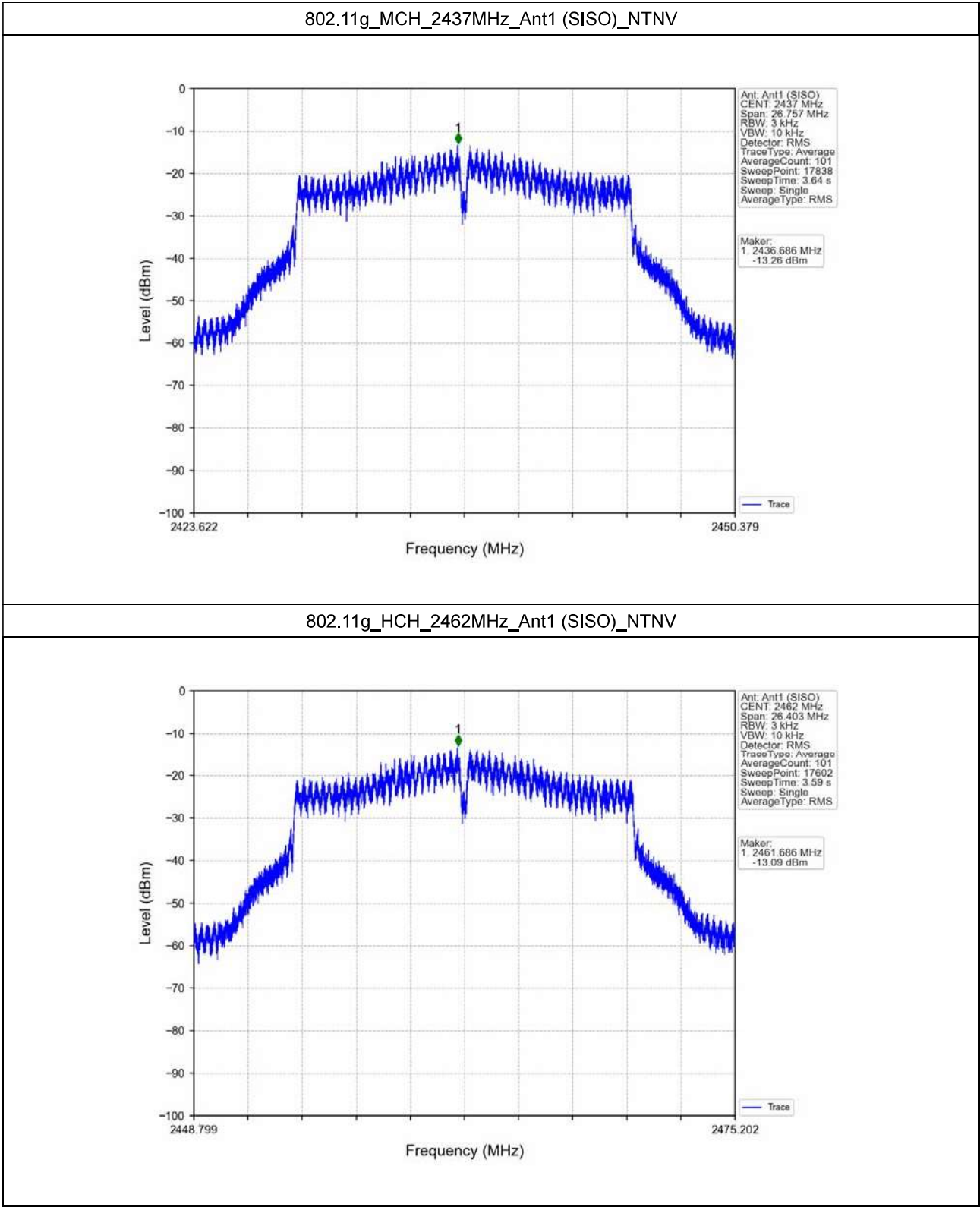
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

Ant: Ant1 (SISO)  
CENT: 2462 MHz  
Span: 26.403 MHz  
RBW: 3 kHz  
VBW: 10 kHz  
Detector: RMS  
TraceType: Average  
AverageCount: 101  
SweepPoint: 17602  
SweepTime: 3.59 s  
Sweep: Single  
AverageType: RMSMaker:  
1 2461.686 MHz  
-13.09 dBm

Trace

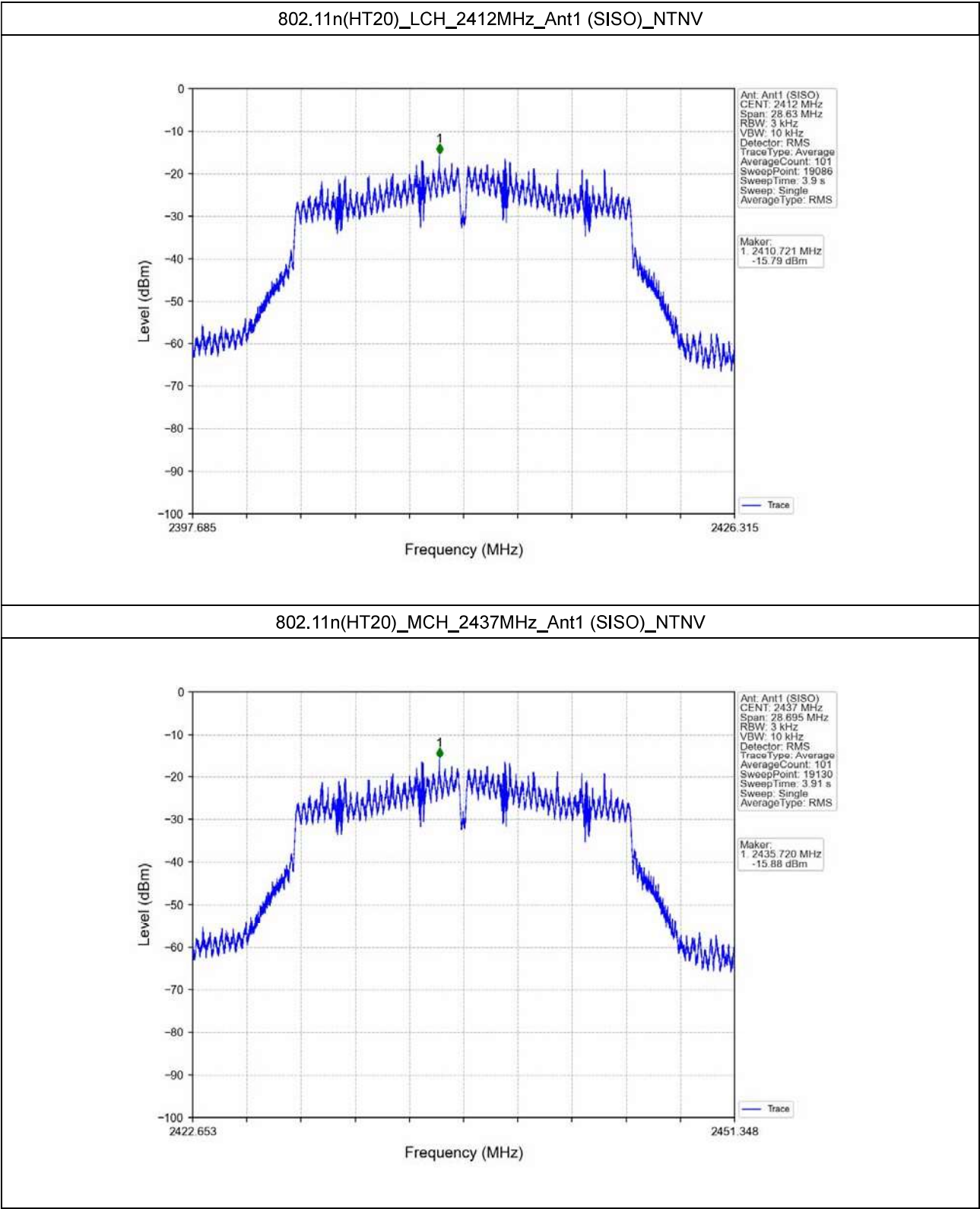
Level (dBm)

Frequency (MHz)

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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

Ant: Ant1 (SISO)  
CENT: 2437 MHz  
Span: 28.695 MHz  
RBW: 3 kHz  
VBW: 10 kHz  
Detector: RMS  
TraceType: Average  
AverageCount: 101  
SweepPoint: 19130  
SweepTime: 3.91 s  
Sweep: Single  
AverageType: RMSMarker:  
1 2435.720 MHz  
-15.86 dBm

Trace

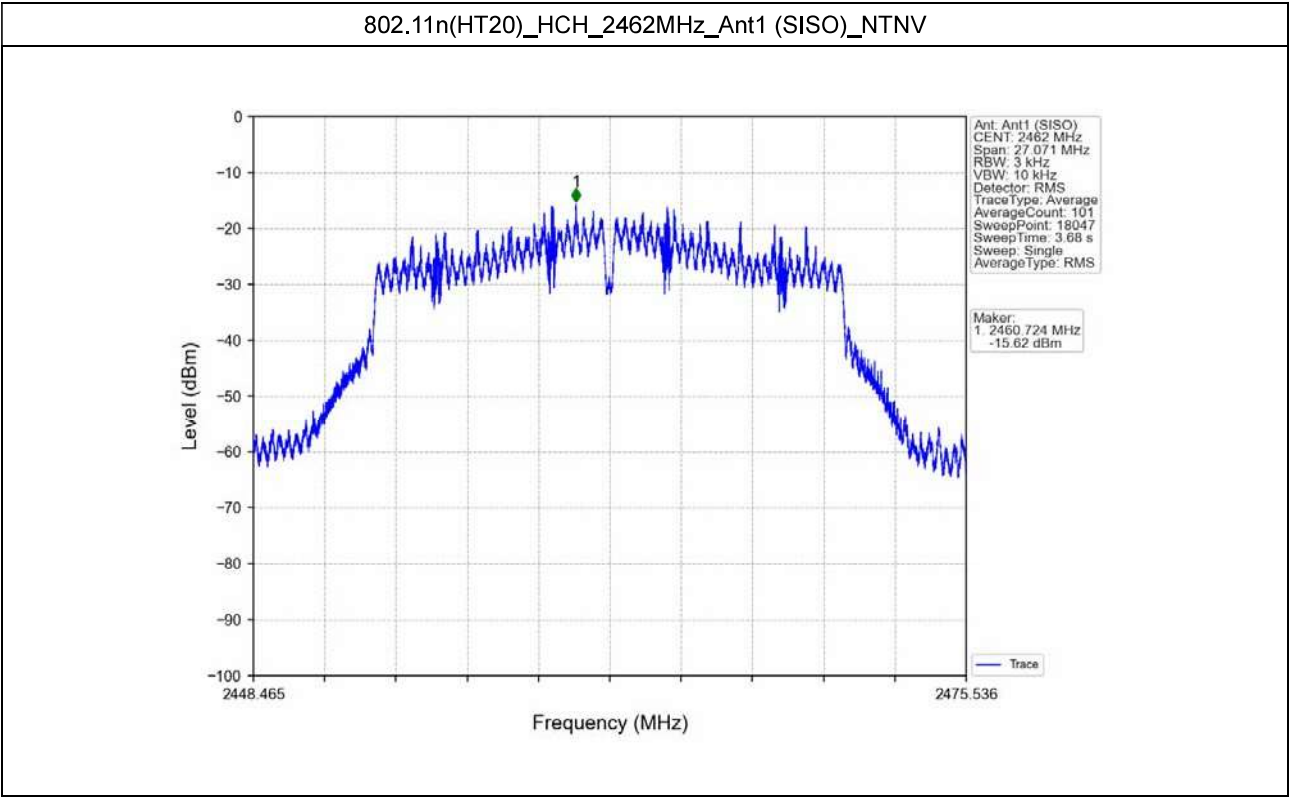
Level (dBm)

Frequency (MHz)

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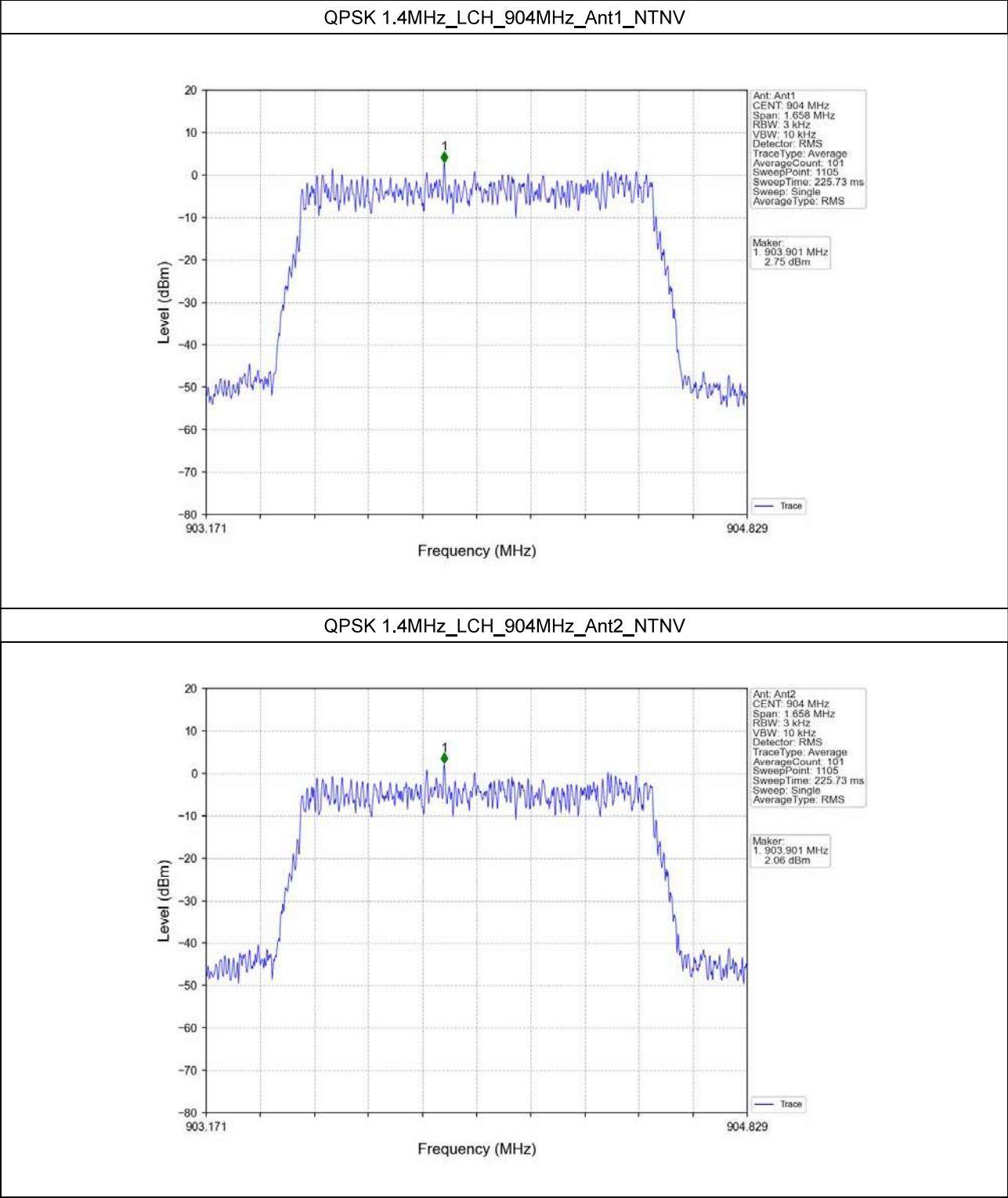


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900M transfer image

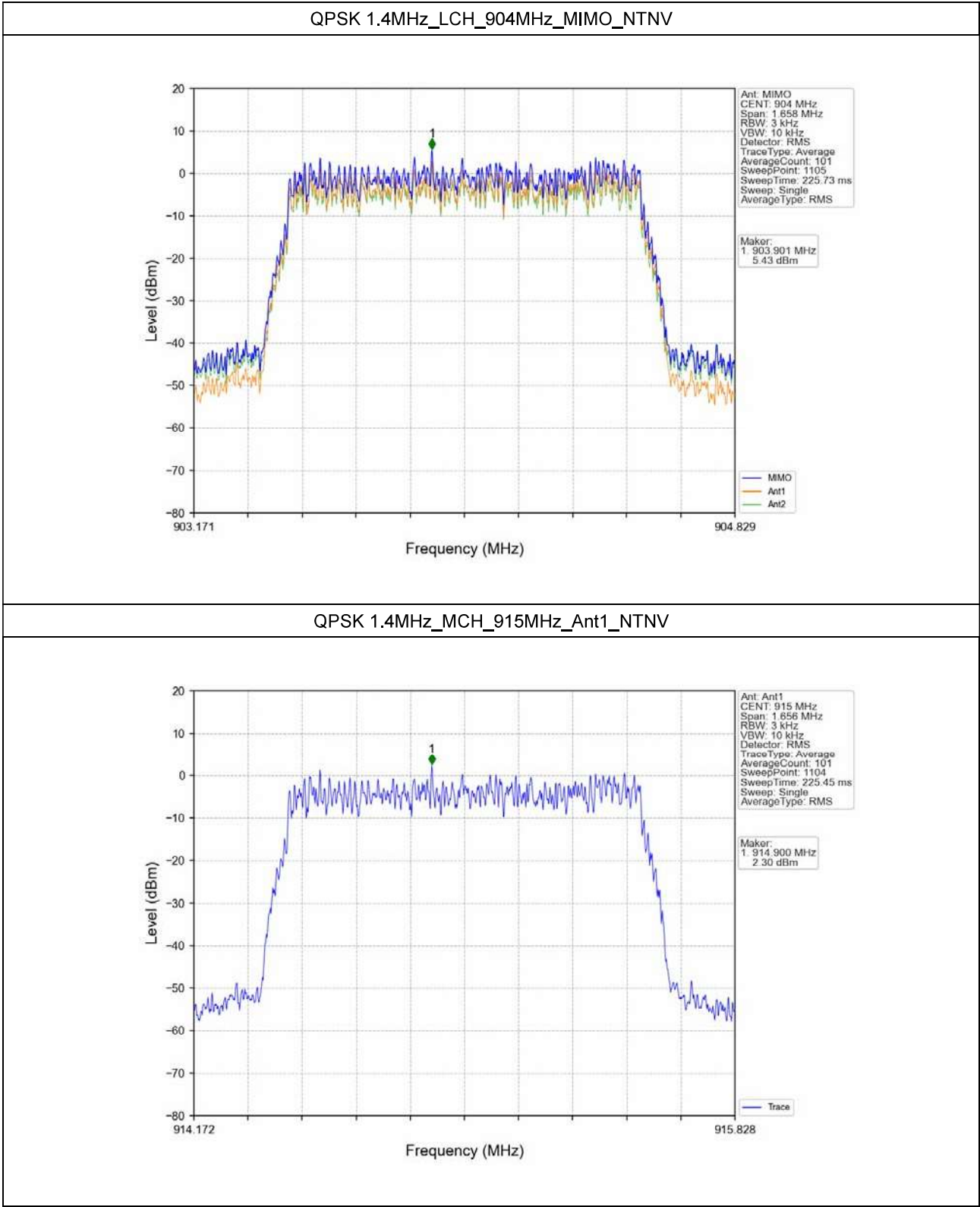
For External Antenna



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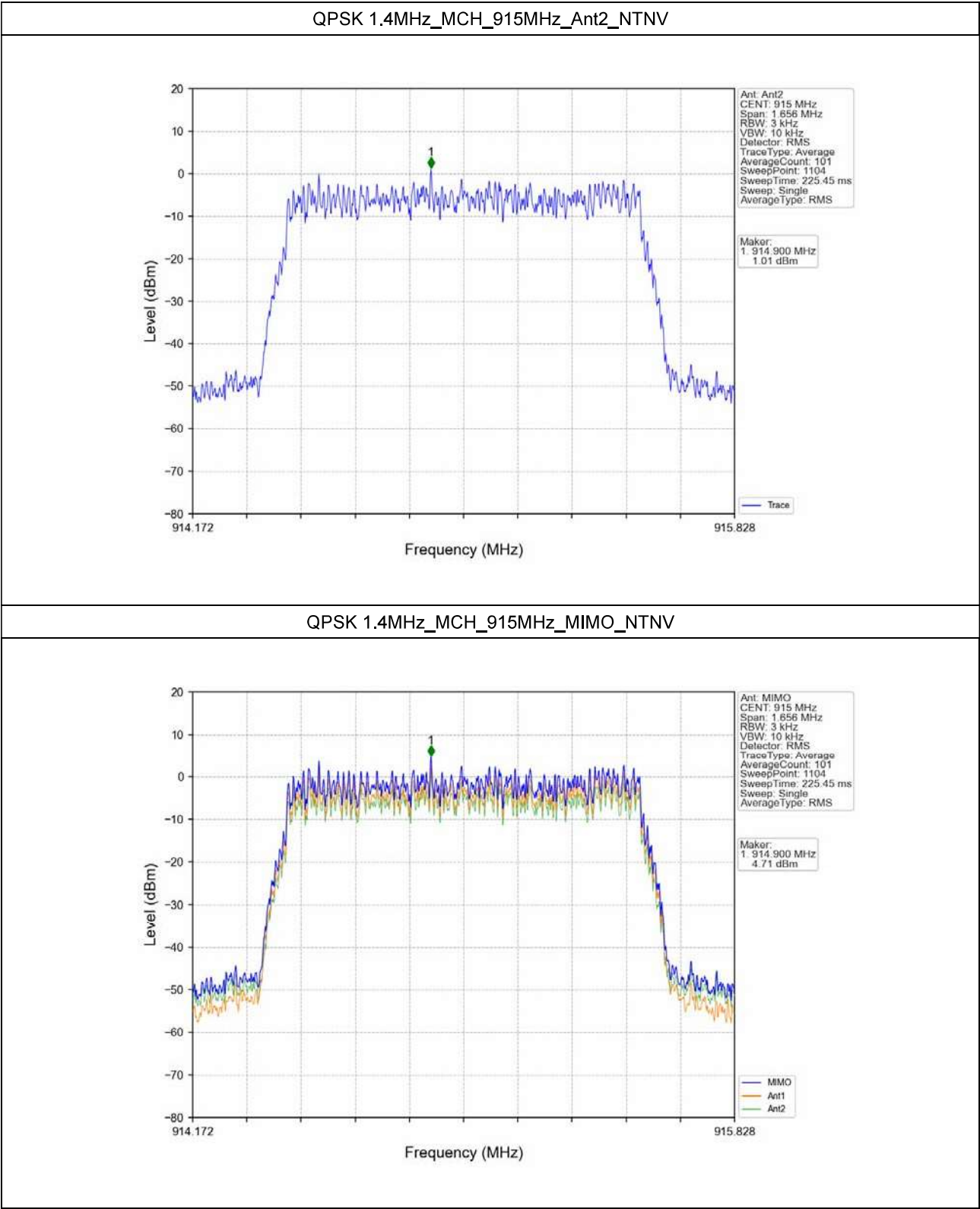
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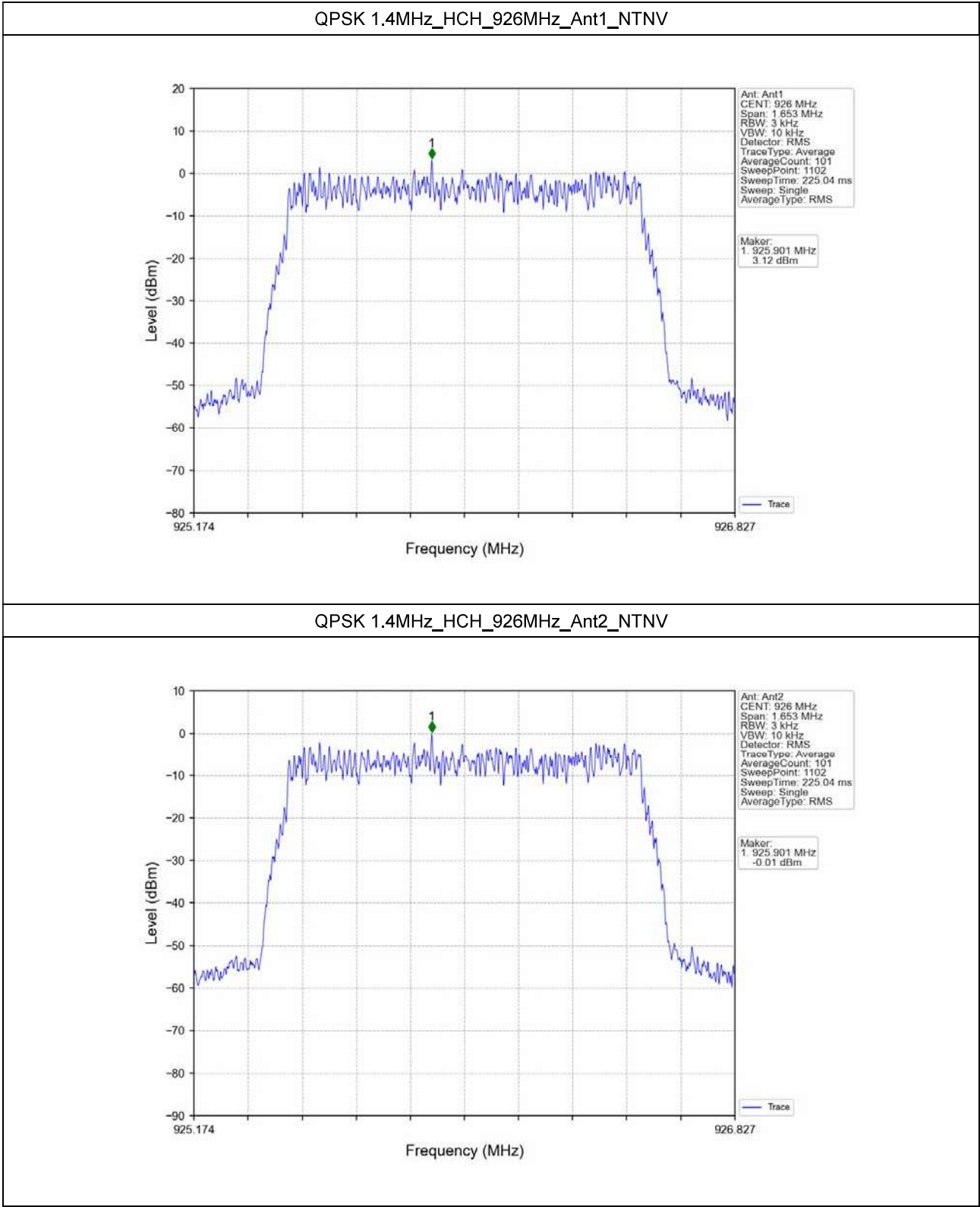
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