

Appendix B for KSCR220600092402

1. Bandwidth

1.1 OBW

1.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Packet Type | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|-----------|---------|-----------------|-------------|-----|------------------------------|---------|
| | | | | | Result | |
| GFSK | SISO | 2402 | DH5 | 1 | 0.747 | Pass |
| | | 2441 | DH5 | 1 | 0.748 | Pass |
| | | 2480 | DH5 | 1 | 0.745 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | 1.146 | Pass |
| | | 2441 | 2DH5 | 1 | 1.143 | Pass |
| | | 2480 | 2DH5 | 1 | 1.142 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | 1.153 | Pass |
| | | 2441 | 3DH5 | 1 | 1.151 | Pass |
| | | 2480 | 3DH5 | 1 | 1.153 | Pass |



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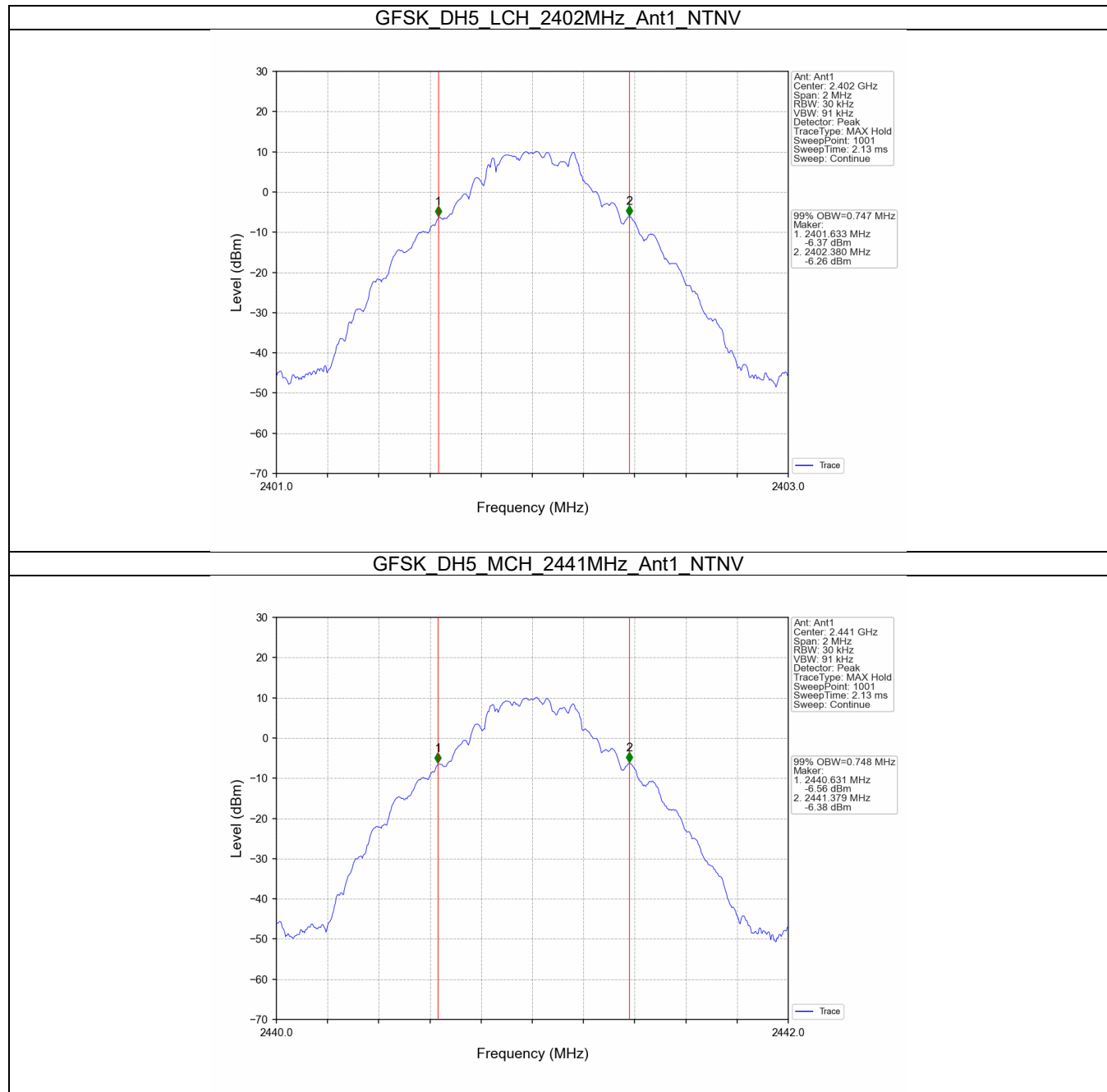
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1.1.2 Test Graph



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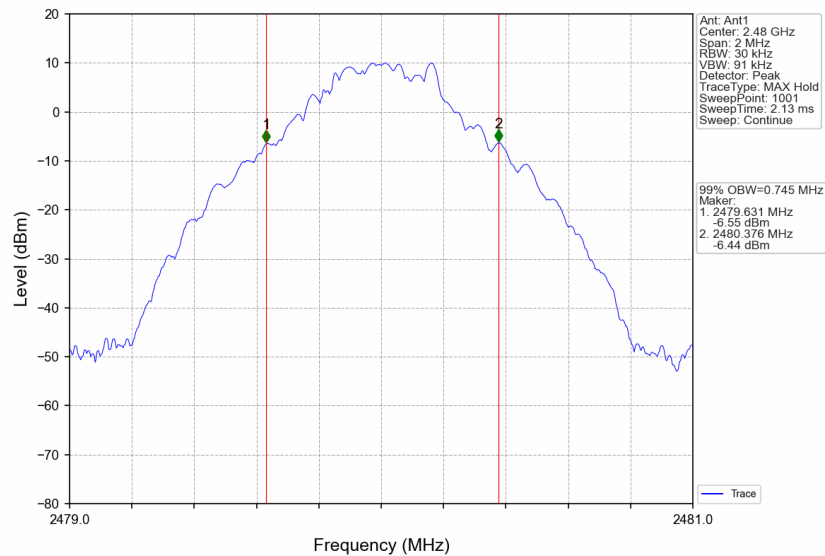
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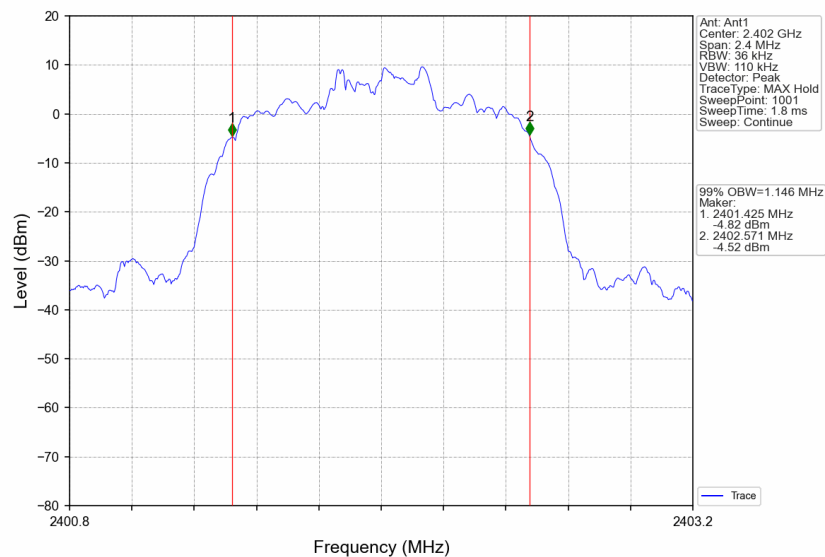
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GFSK DH5 HCH 2480MHz_Ant1_NTNV



PI/4DQPSK 2DH5 LCH 2402MHz_Ant1_NTNV



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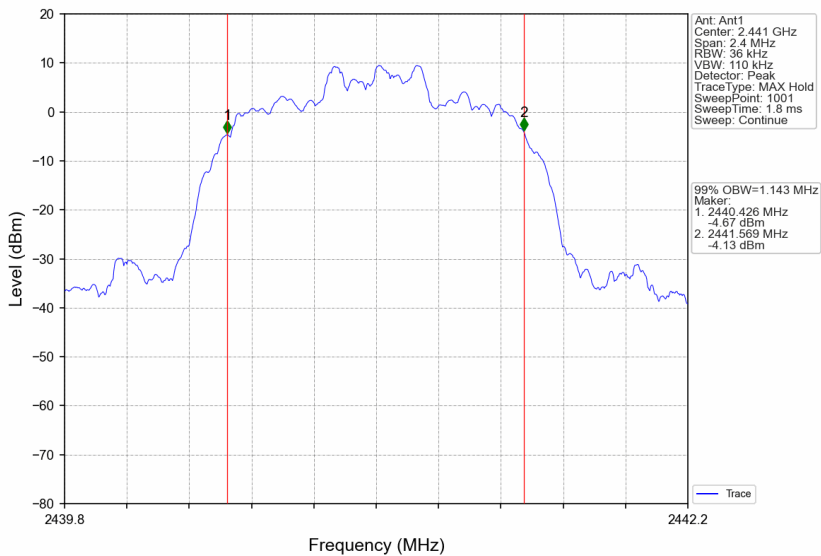
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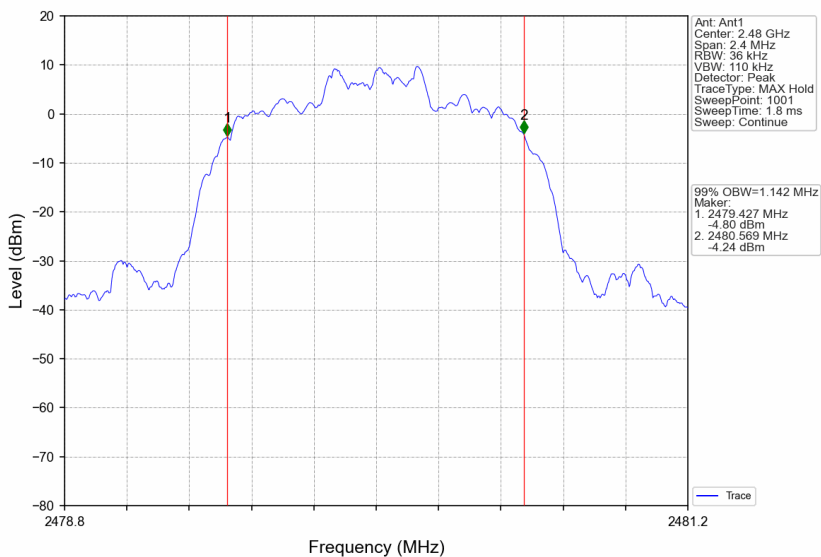
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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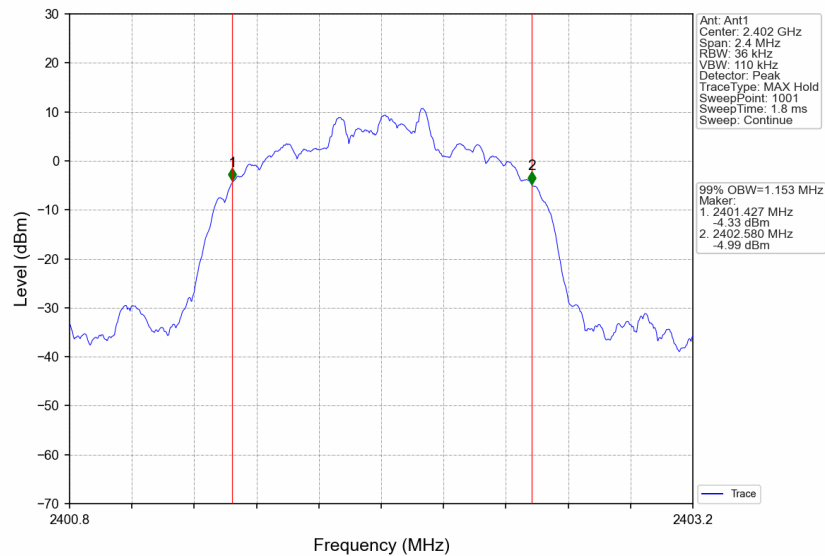
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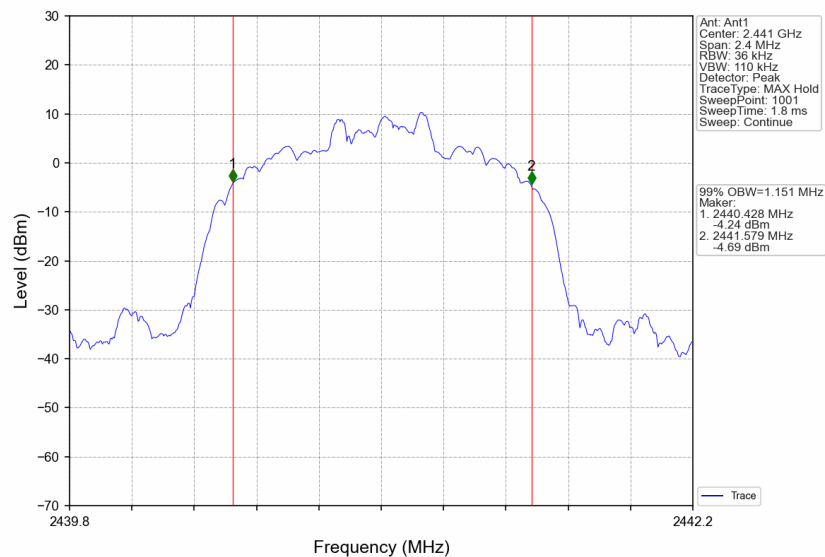
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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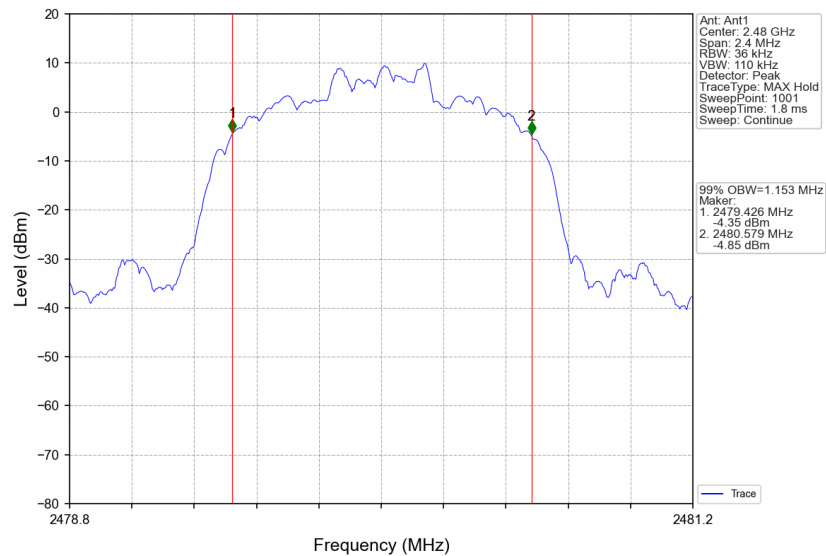
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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1.2 20dB BW

1.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | Packet Type | ANT | 20dB Bandwidth (MHz) | Verdict |
|-----------|---------|-----------------|-------------|-----|----------------------|---------|
| | | | | | Result | |
| GFSK | SISO | 2402 | DH5 | 1 | 0.849 | Pass |
| | | 2441 | DH5 | 1 | 0.843 | Pass |
| | | 2480 | DH5 | 1 | 0.849 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | 1.278 | Pass |
| | | 2441 | 2DH5 | 1 | 1.277 | Pass |
| | | 2480 | 2DH5 | 1 | 1.280 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | 1.282 | Pass |
| | | 2441 | 3DH5 | 1 | 1.282 | Pass |
| | | 2480 | 3DH5 | 1 | 1.282 | Pass |



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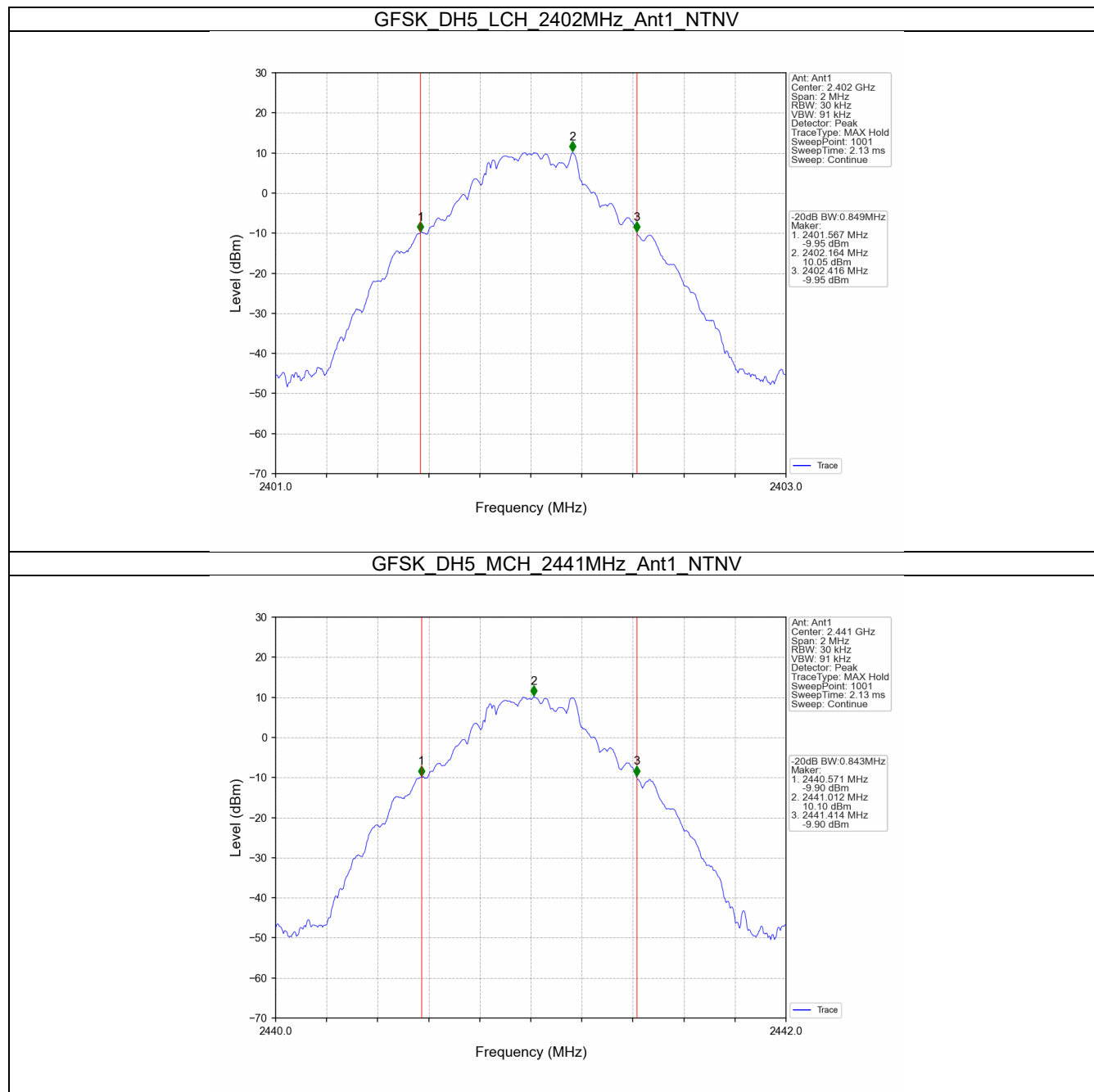
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1.2.2 Test Graph



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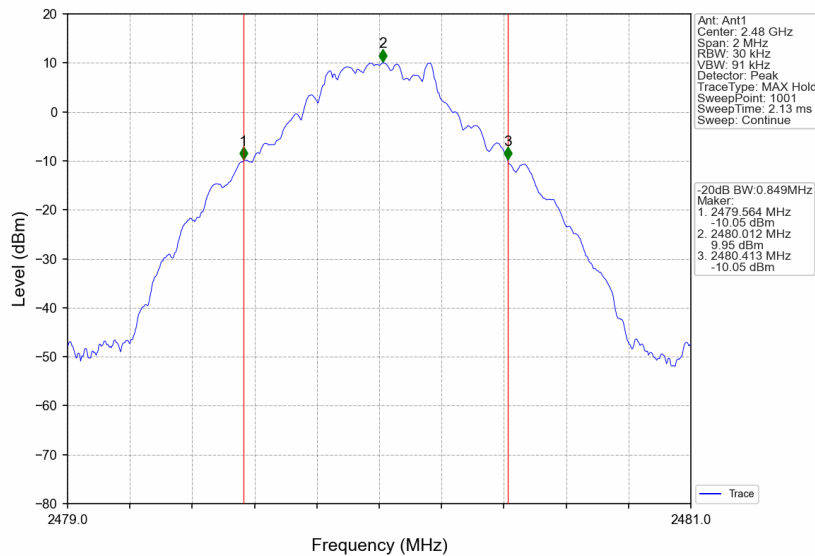
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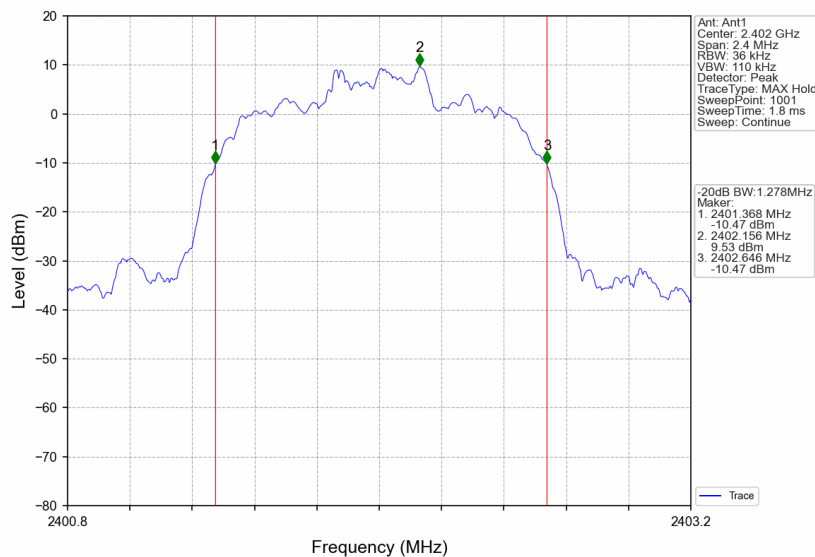
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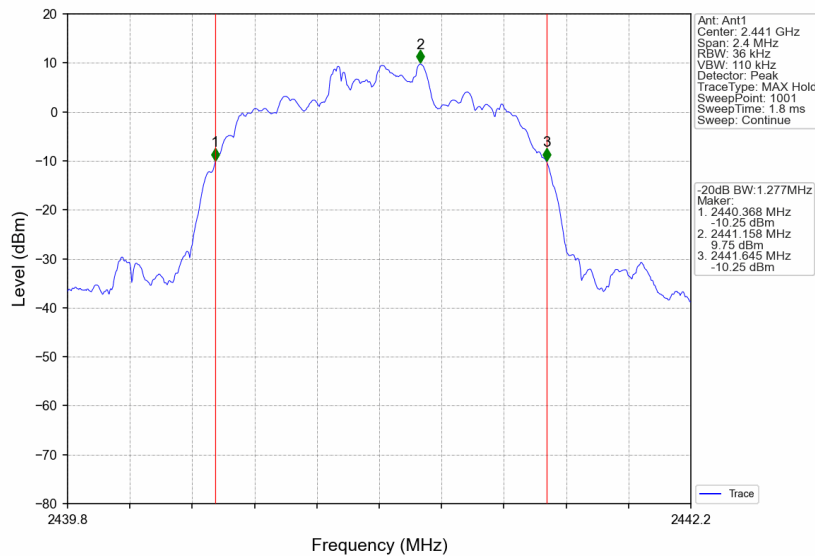
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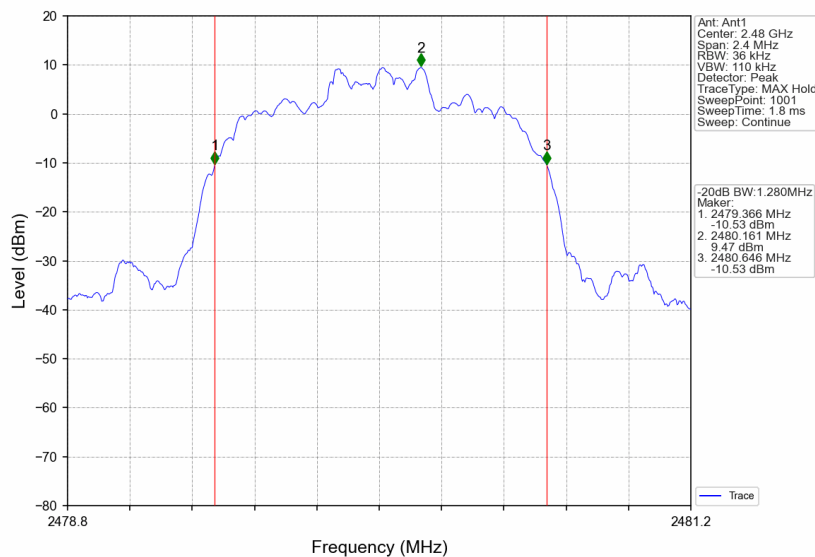
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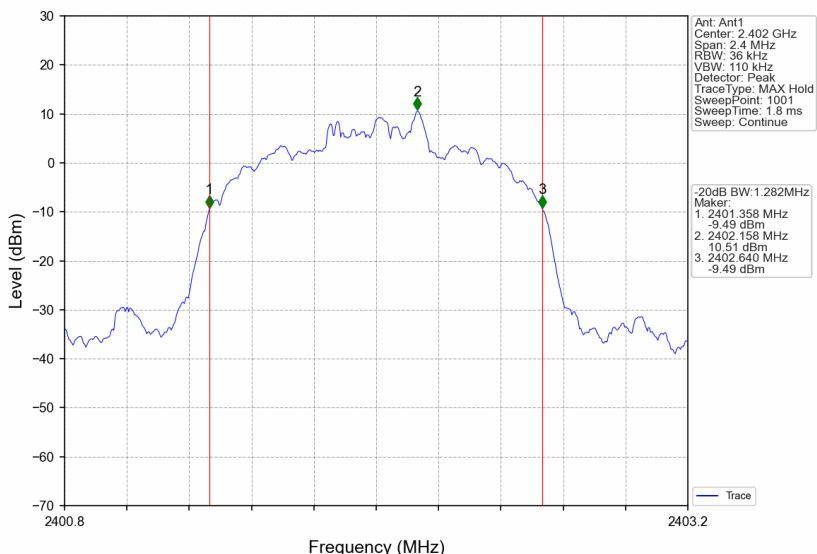
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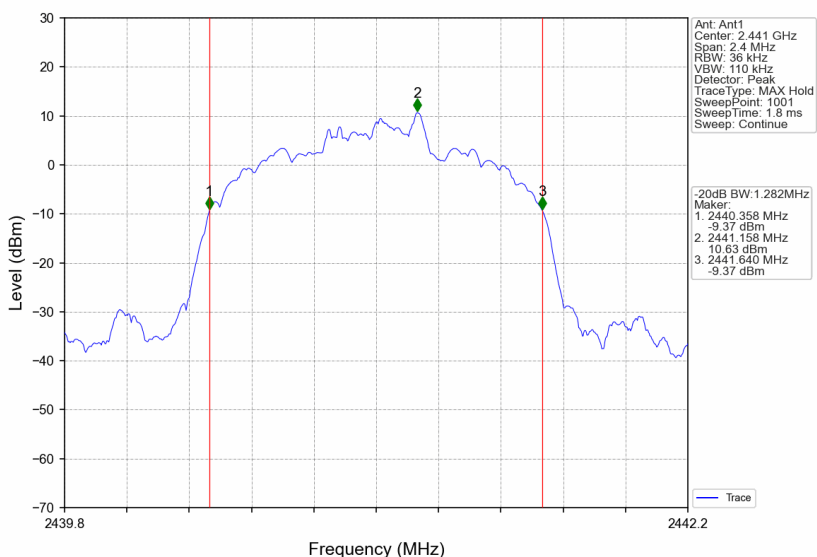
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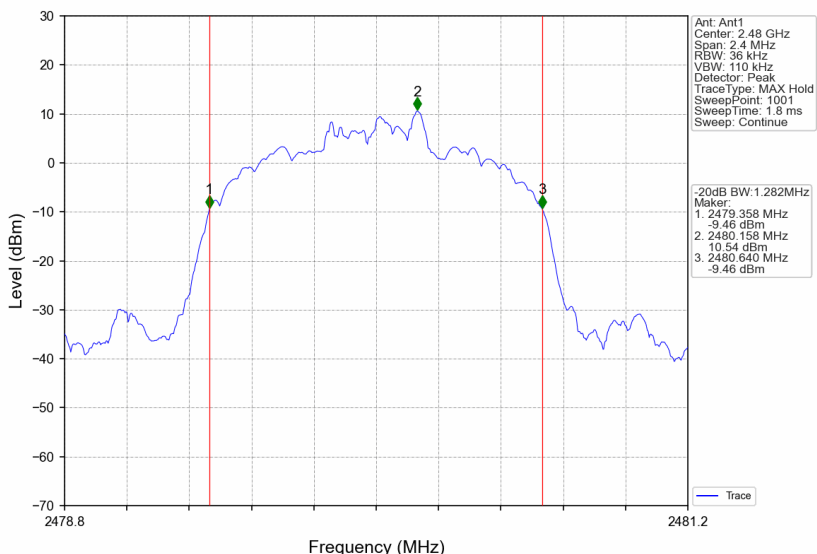
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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Packet Type | Maximum Peak Conducted Output Power (dBm) | | Verdict |
|-----------|---------|-----------------|-------------|---|---------|---------|
| | | | | ANT1 | Limit | |
| GFSK | SISO | 2402 | DH5 | 12.46 | <=30 | Pass |
| | | 2441 | DH5 | 12.54 | <=30 | Pass |
| | | 2480 | DH5 | 12.37 | <=30 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 12.36 | <=20.97 | Pass |
| | | 2441 | 2DH5 | 12.46 | <=20.97 | Pass |
| | | 2480 | 2DH5 | 12.38 | <=20.97 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 12.67 | <=20.97 | Pass |
| | | 2441 | 3DH5 | 12.55 | <=20.97 | Pass |
| | | 2480 | 3DH5 | 12.44 | <=20.97 | Pass |

Note1: Antenna Gain: Ant1: 0.37dBi;



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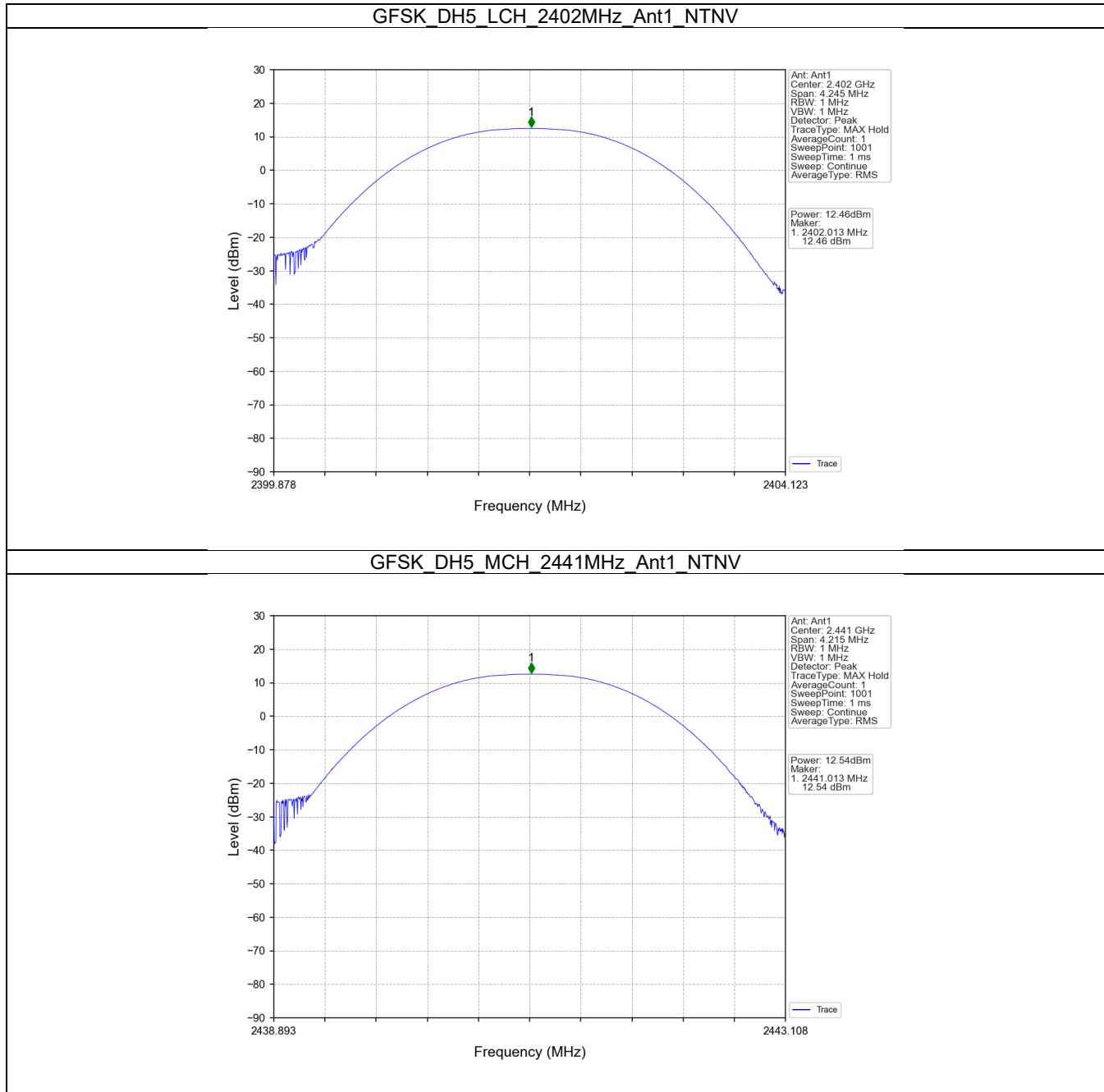
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2.1.2 Test Graph



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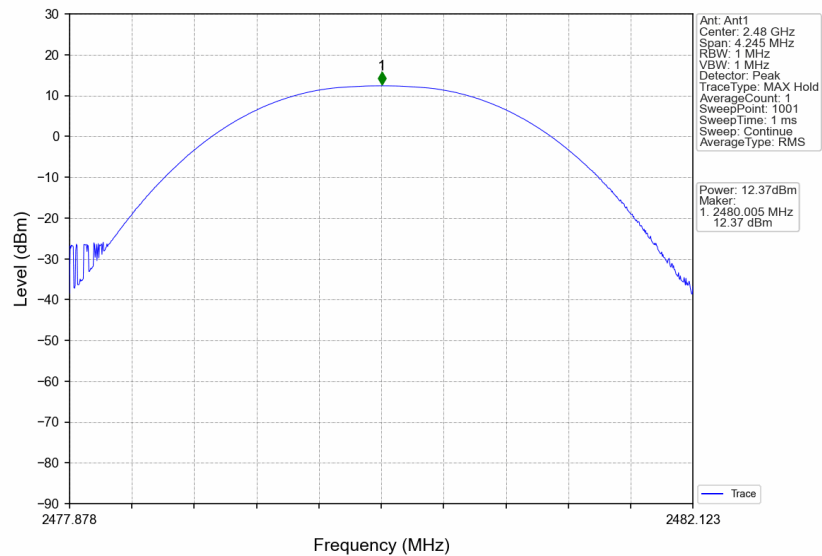
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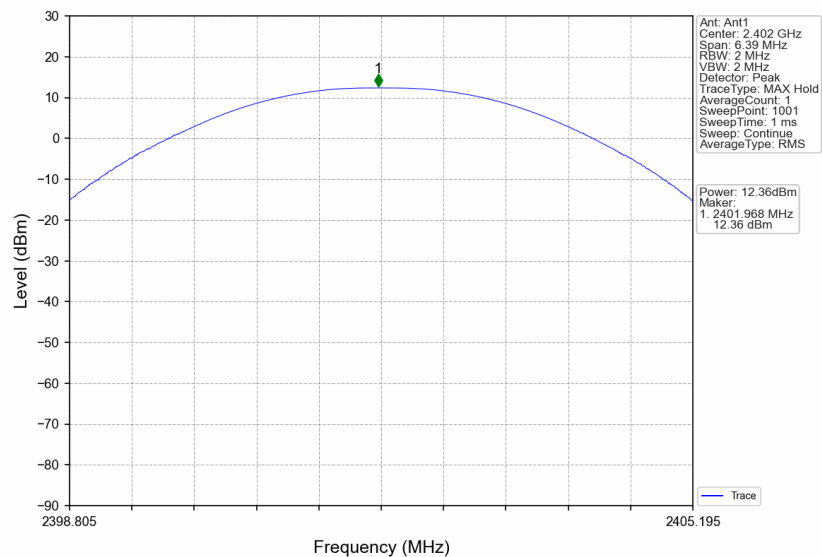
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GFSK DH5 HCH 2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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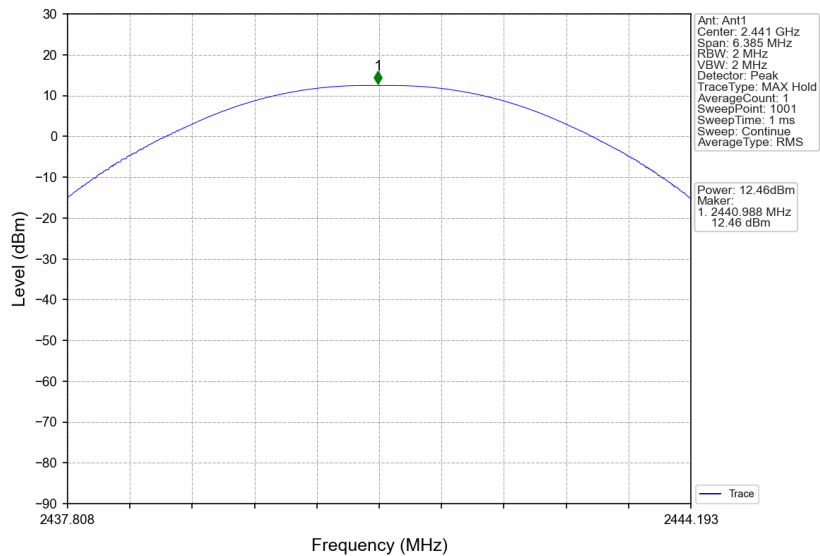
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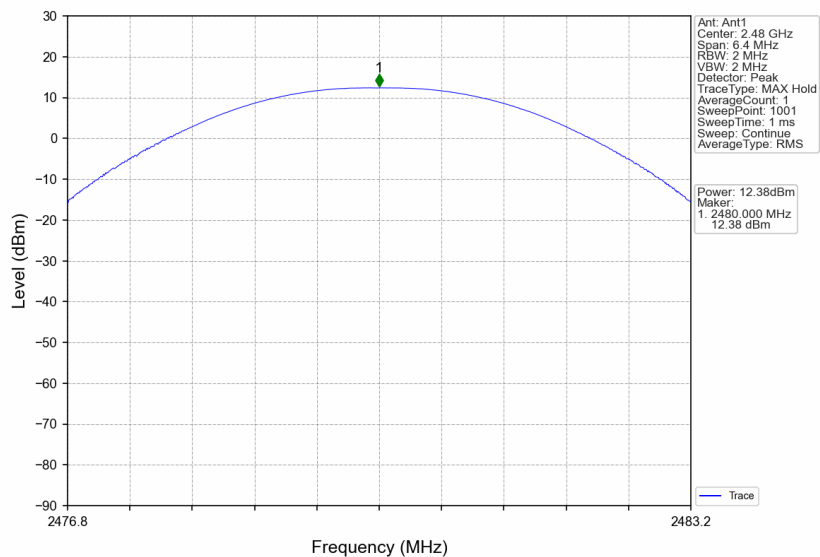
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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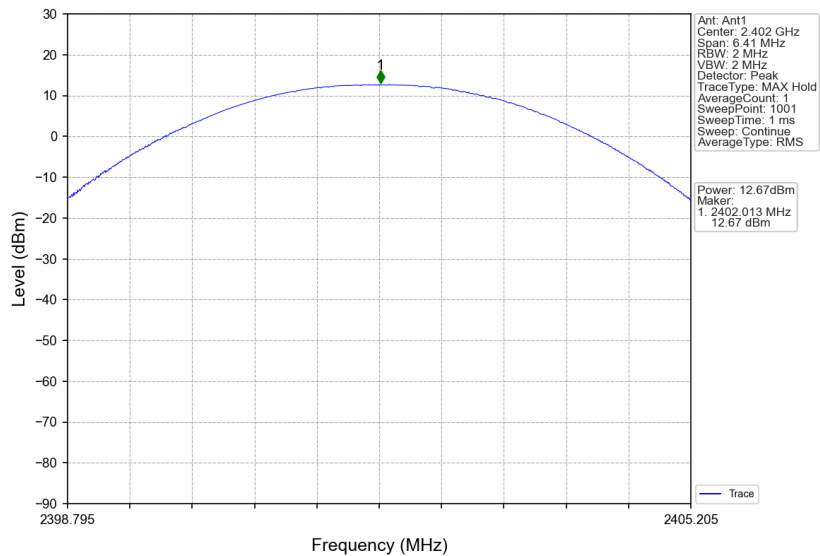
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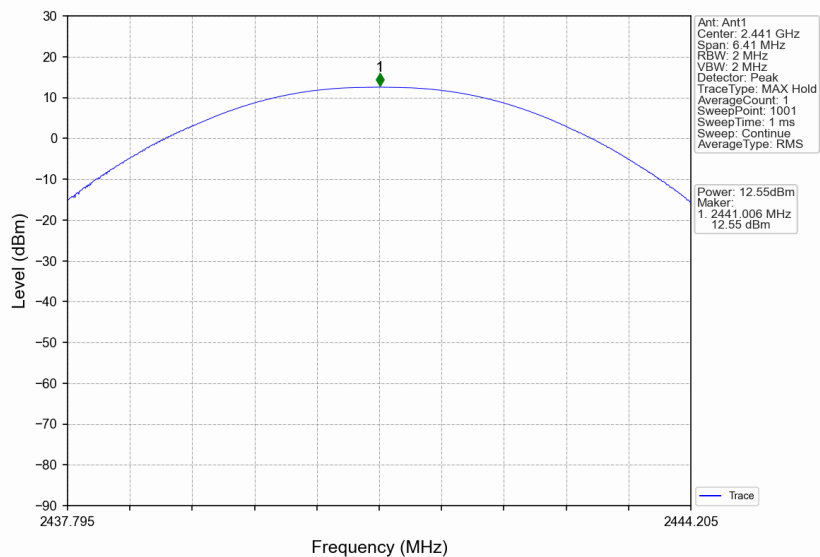
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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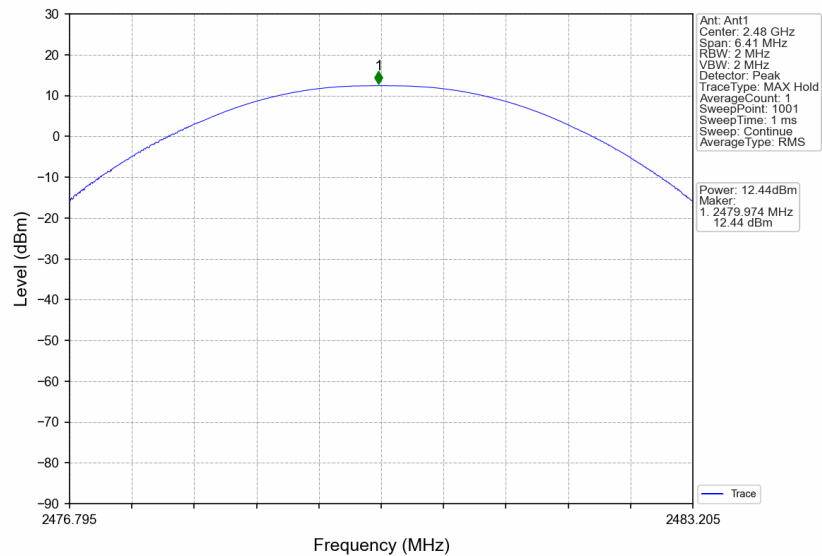
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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3. Carrier Frequency Separation

3.1 Ant1

3.1.1 Test Result

| Ant1 | | | | | | | |
|-----------|---------|-----------------|-------------|--------------------------|----------------------|--------------|---------|
| Mode | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| GFSK | SISO | HOPP | DH5 | 0.966 | 0.849 | ≥ 0.849 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH5 | 1.001 | 1.280 | ≥ 0.853 | Pass |
| 8DPSK | SISO | HOPP | 3DH5 | 0.996 | 1.282 | ≥ 0.855 | Pass |



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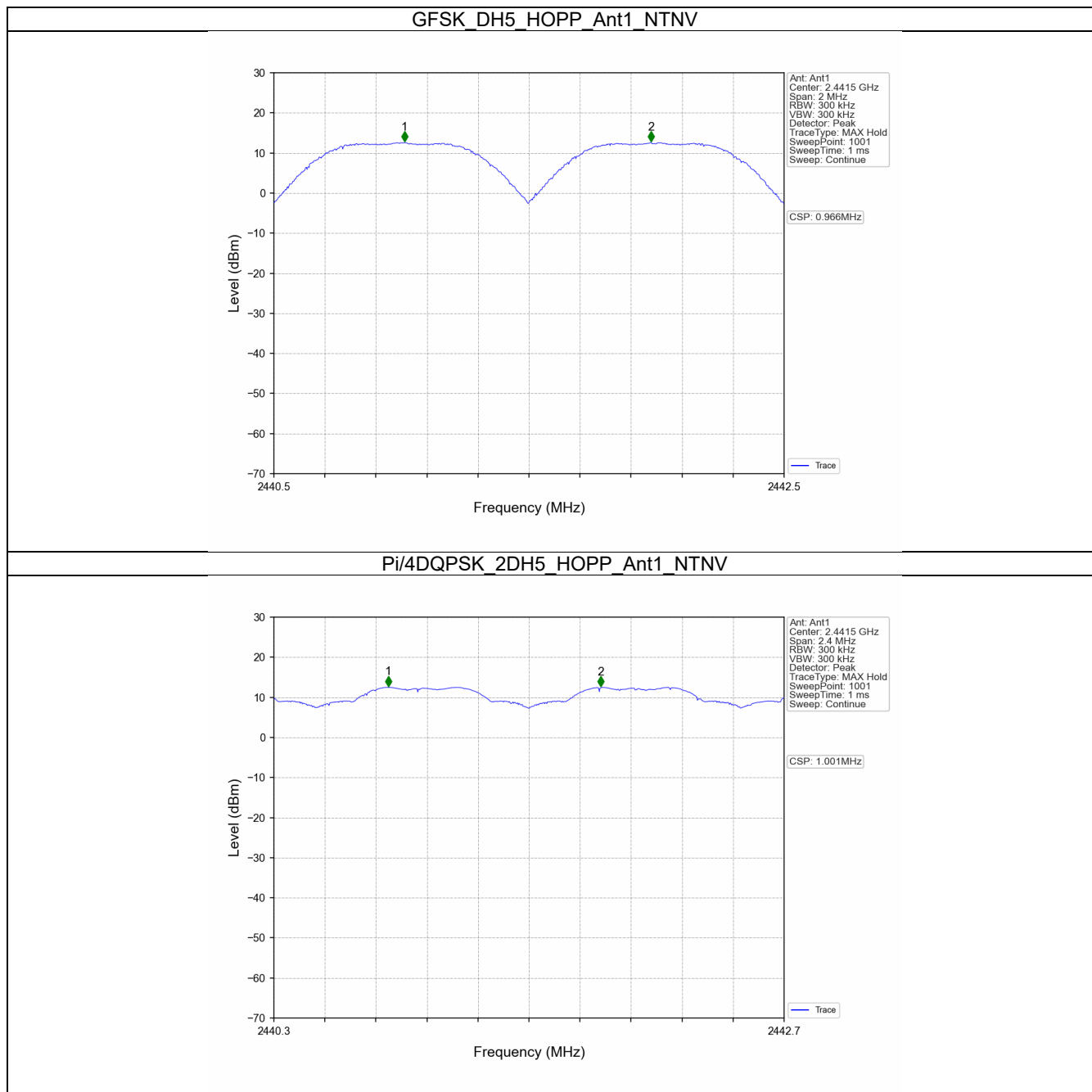
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3.1.2 Test Graph



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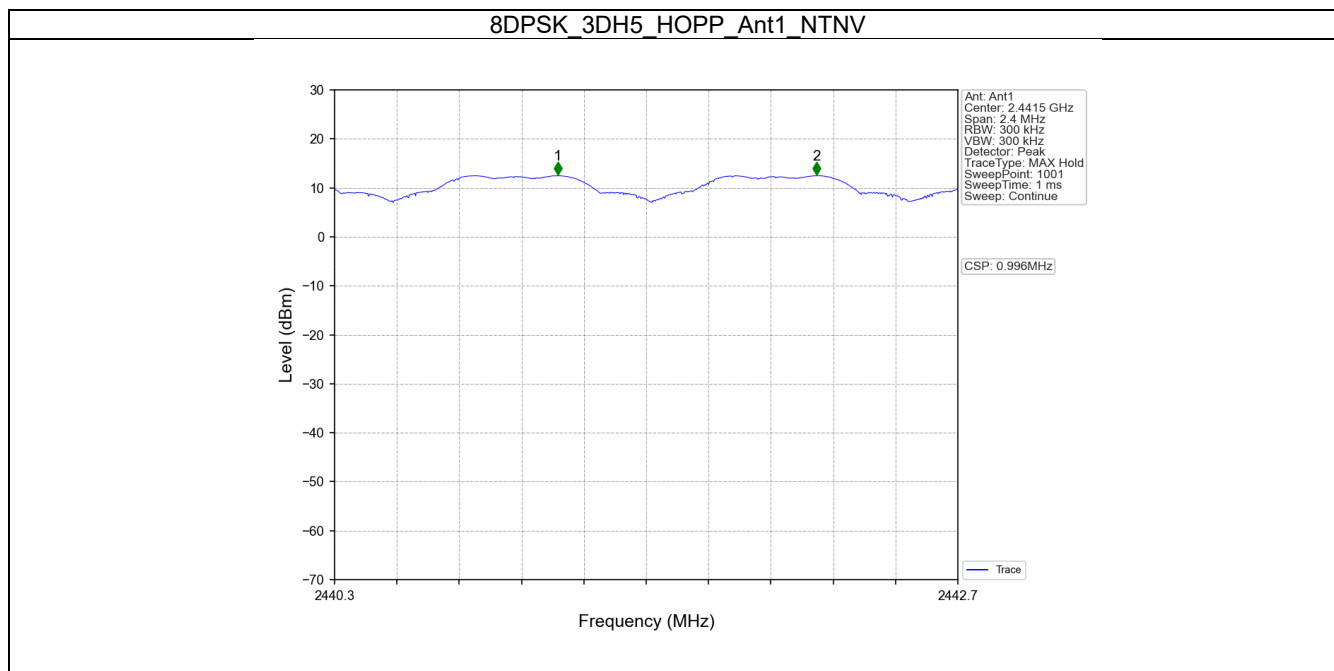
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4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Packet Type | Num of Hopping Frequencies | | Verdict |
|-----------|---------|-----------------|-------------|----------------------------|-------|---------|
| | | | | ANT1 | Limit | |
| GFSK | SISO | HOPP | DH5 | 79 | >=15 | Pass |
| PI/4DQPSK | SISO | HOPP | 2DH5 | 79 | >=15 | Pass |
| 8DPSK | SISO | HOPP | 3DH5 | 79 | >=15 | Pass |

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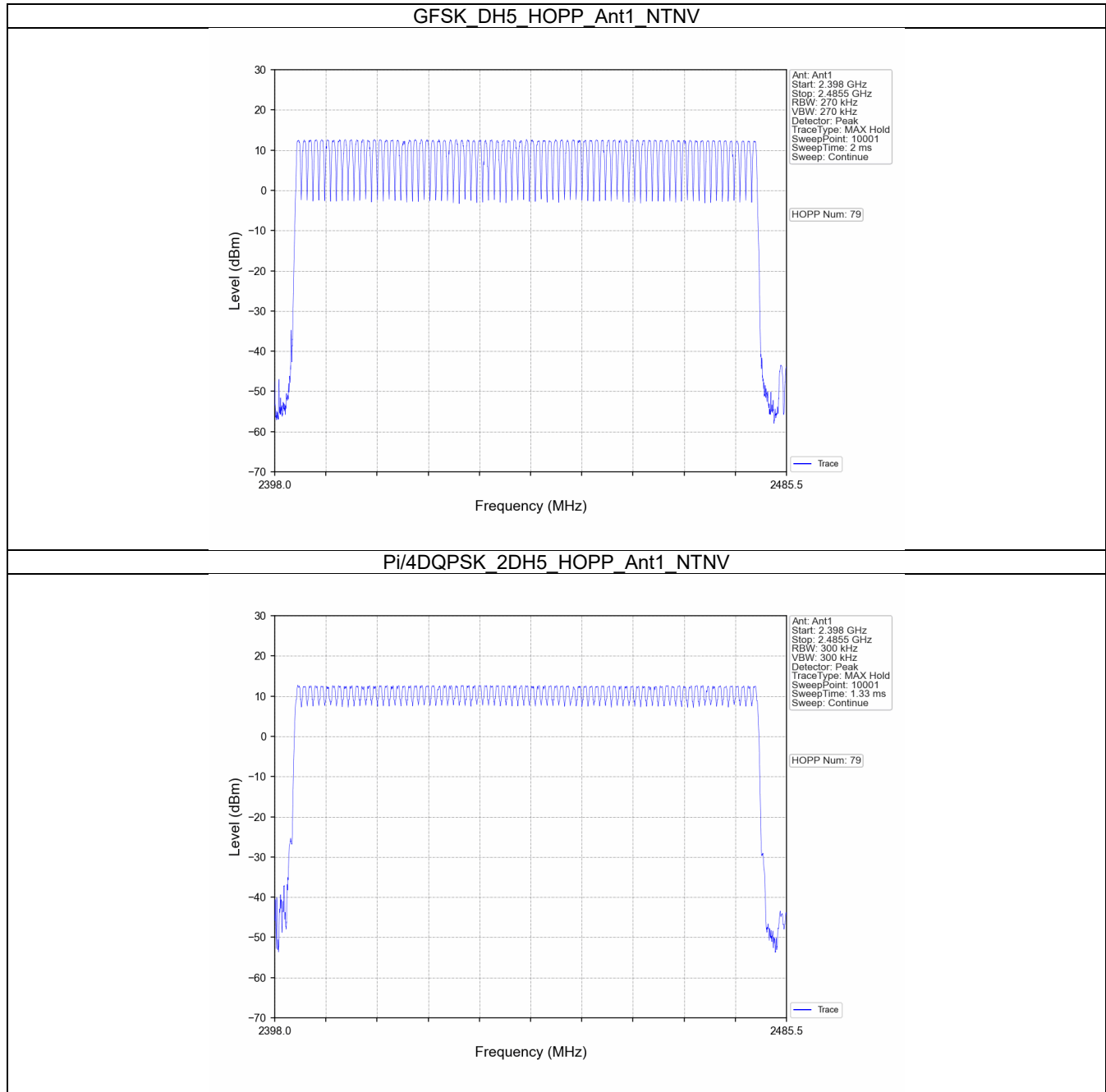
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4.1.2 Test Graph



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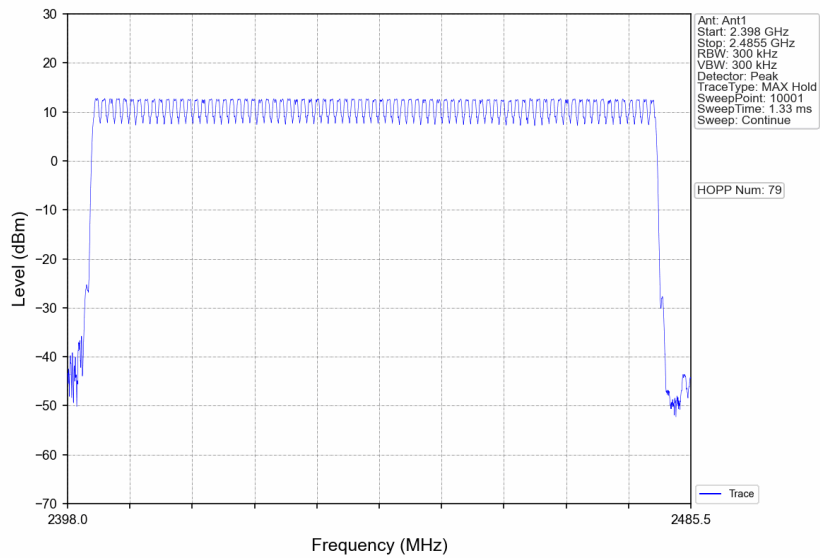
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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

| Ant1 | | | | | | | | | |
|-----------|---------|-----------------|-------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| Mode | TX Type | Frequency (MHz) | Packet Type | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict |
| GFSK | SISO | HOPP | DH1 | 0.382 | 31.600 | 165 | 63.030 | <=400 | Pass |
| | | | DH3 | 1.638 | 31.600 | 159 | 260.442 | <=400 | Pass |
| | | | DH5 | 2.886 | 31.600 | 88 | 253.968 | <=400 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH1 | 0.390 | 31.600 | 162 | 63.180 | <=400 | Pass |
| | | | 2DH3 | 1.642 | 31.600 | 165 | 270.930 | <=400 | Pass |
| | | | 2DH5 | 2.890 | 31.600 | 78 | 225.420 | <=400 | Pass |
| 8DPSK | SISO | HOPP | 3DH1 | 0.392 | 31.600 | 160 | 62.720 | <=400 | Pass |
| | | | 3DH3 | 1.640 | 31.600 | 159 | 260.760 | <=400 | Pass |
| | | | 3DH5 | 2.892 | 31.600 | 82 | 237.144 | <=400 | Pass |



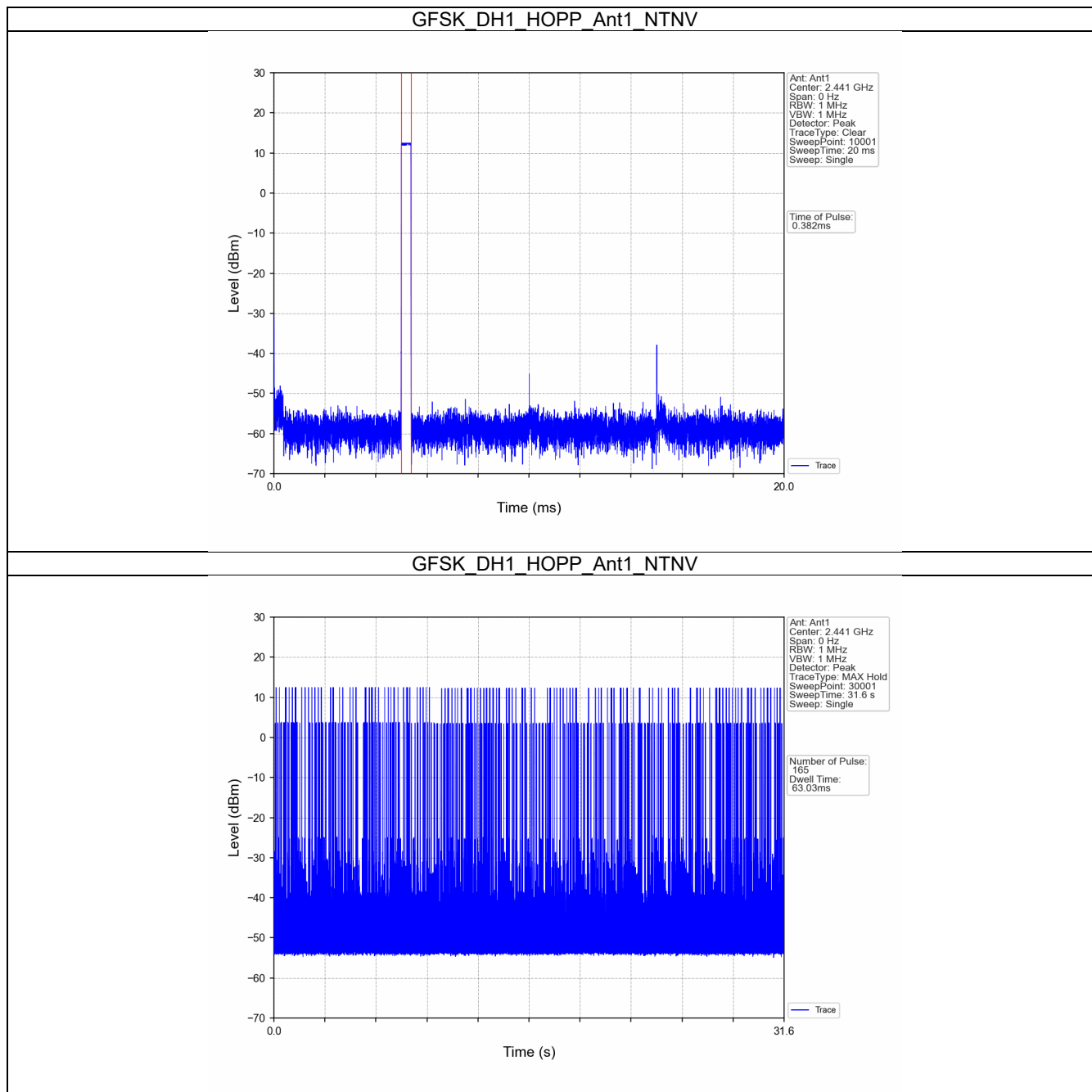
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5.1.2 Test Graph



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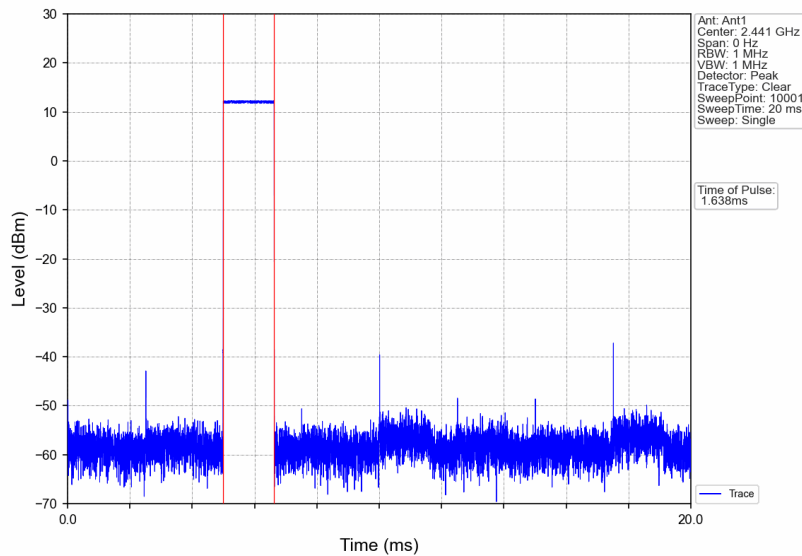
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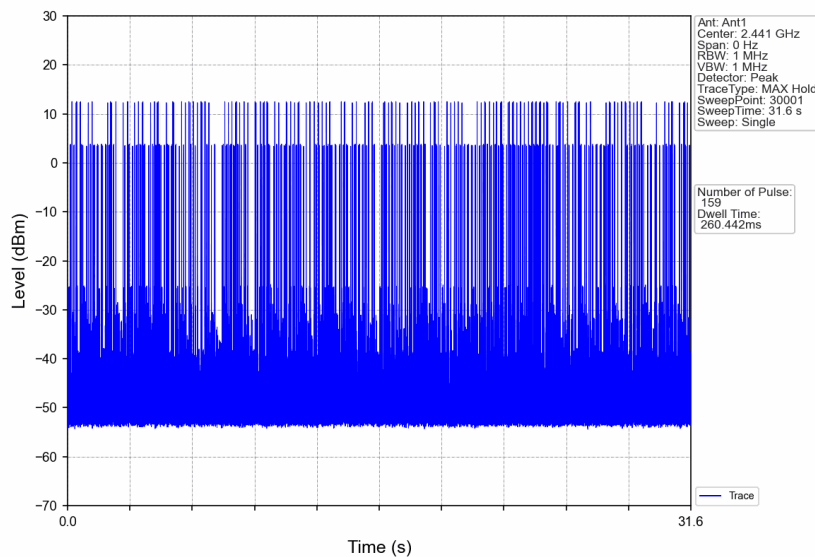
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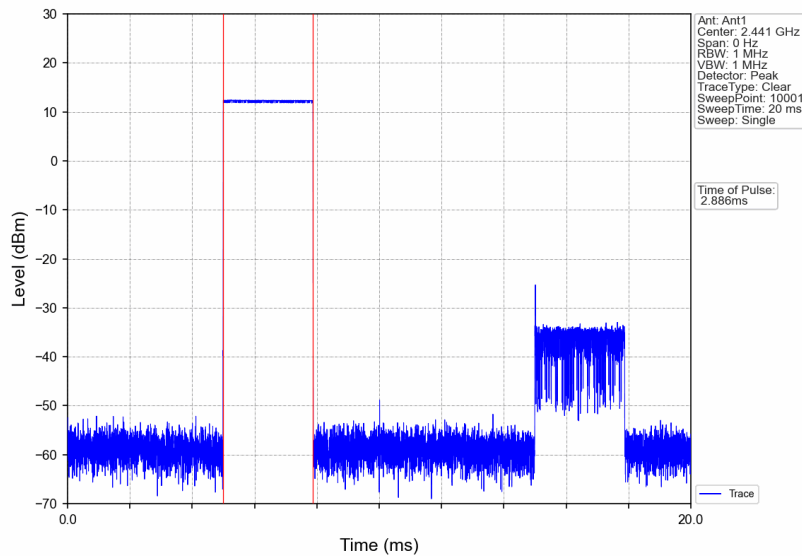
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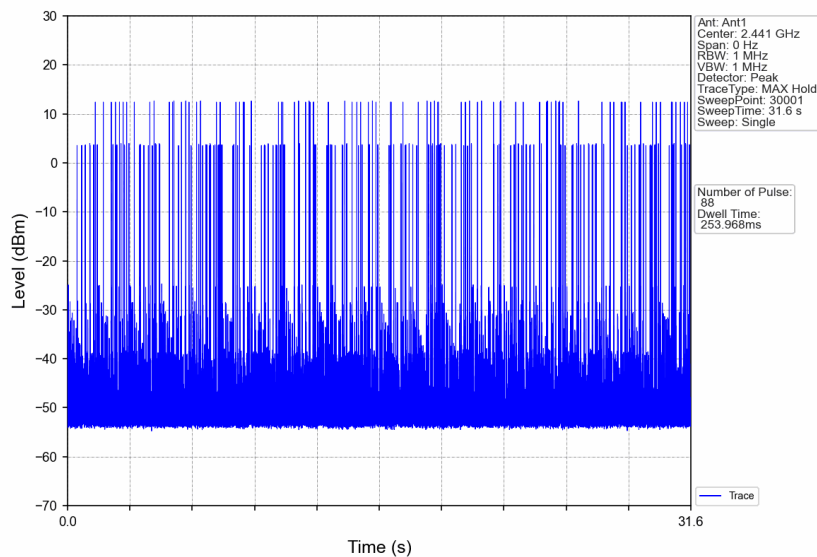
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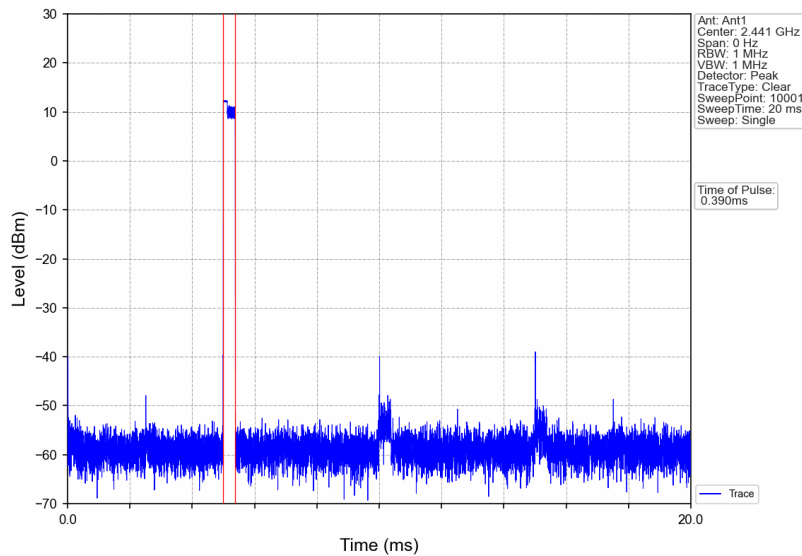
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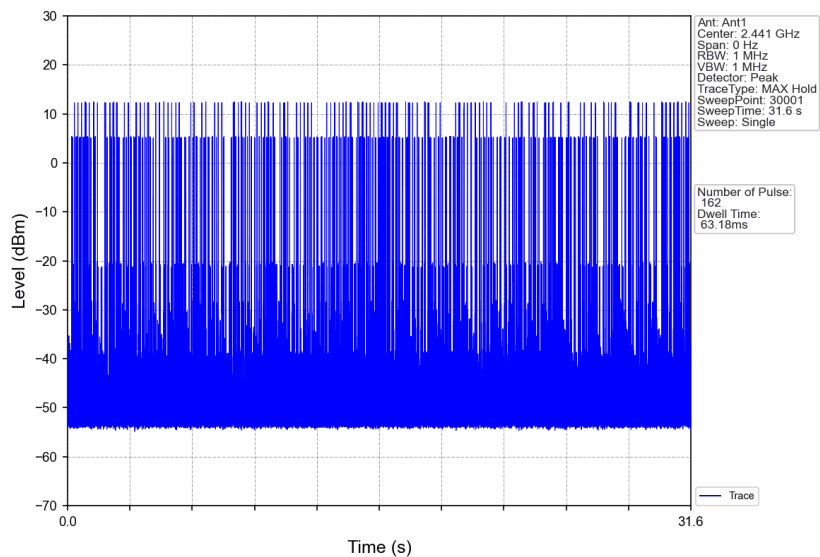
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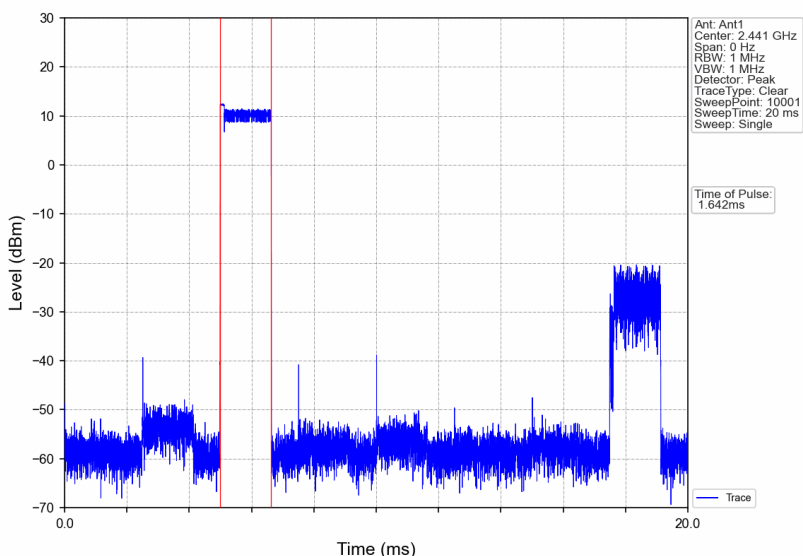
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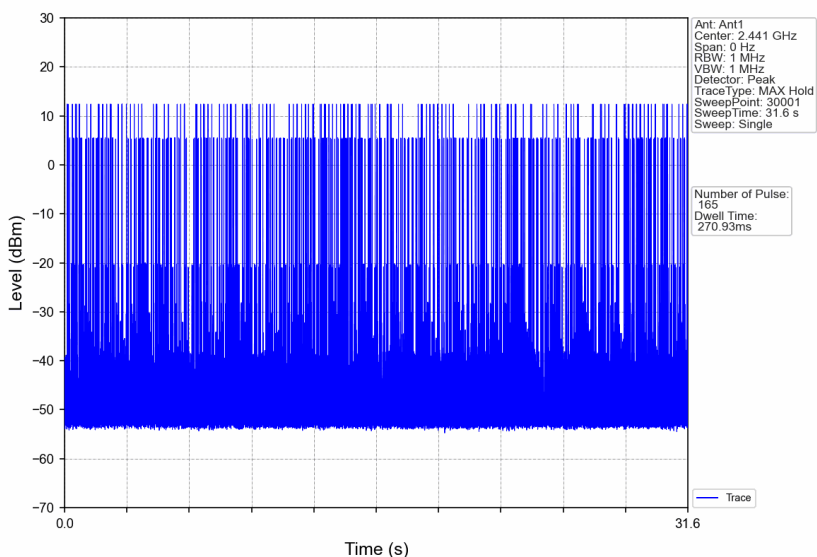
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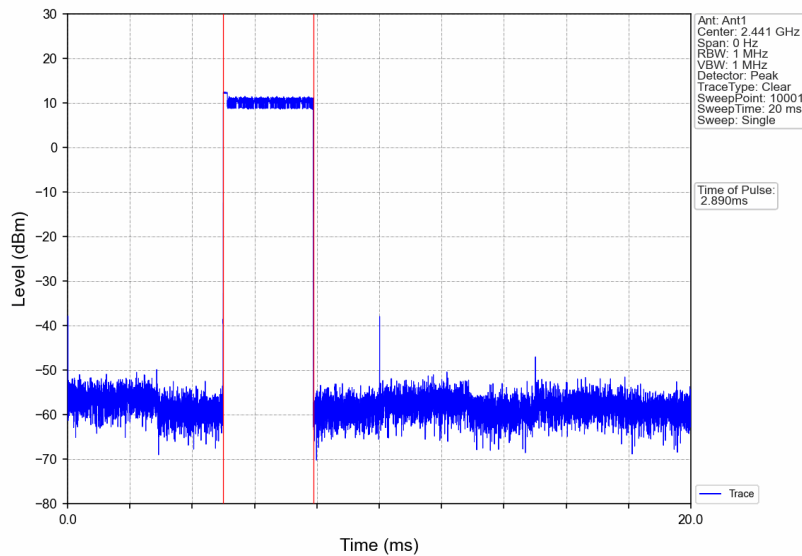
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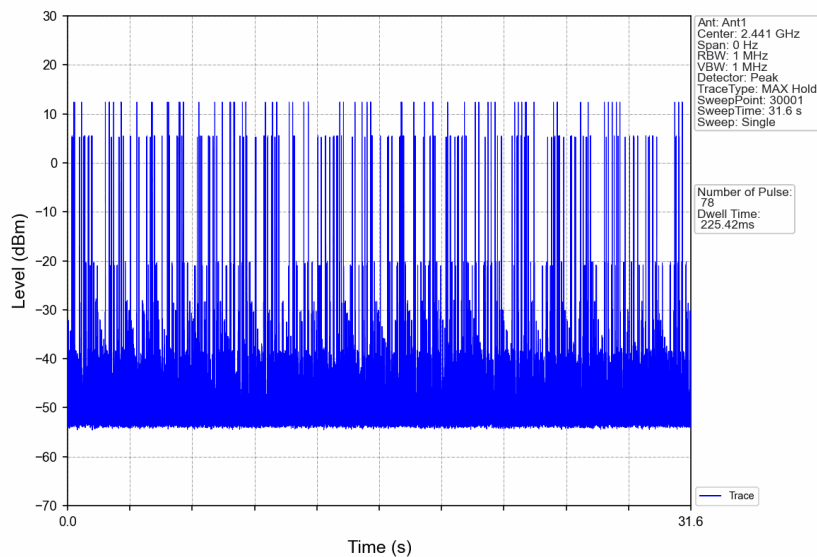
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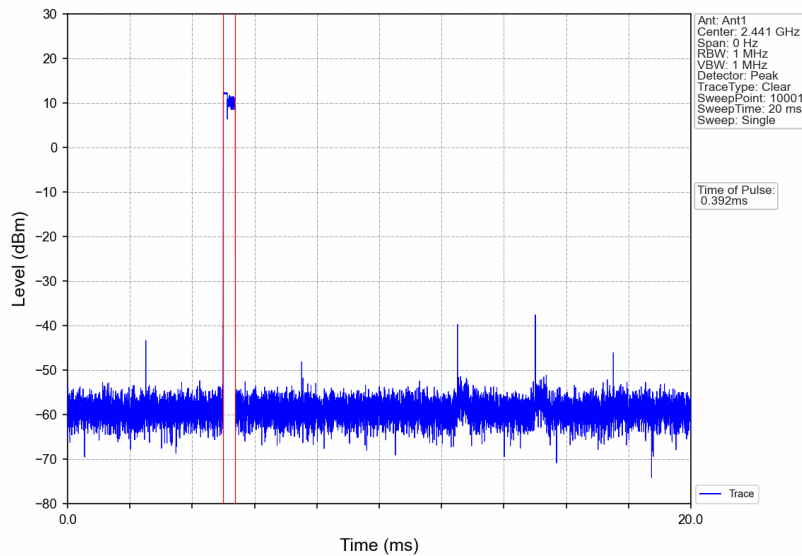
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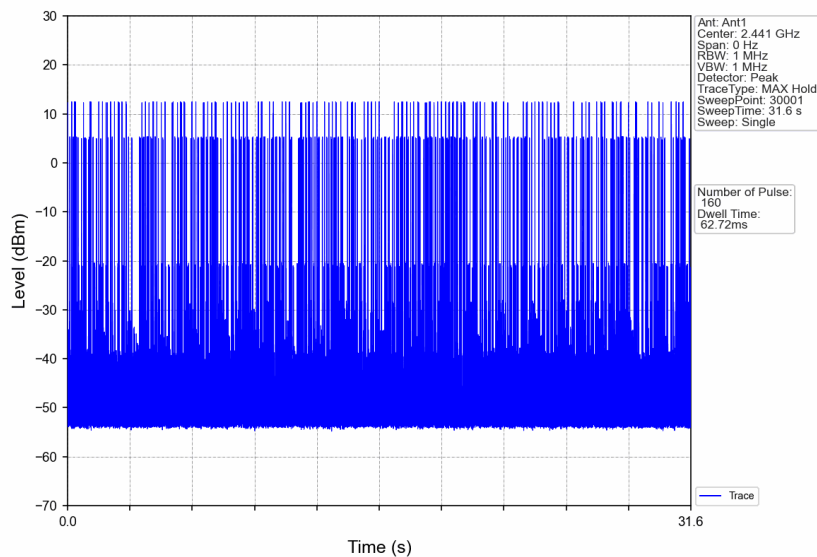
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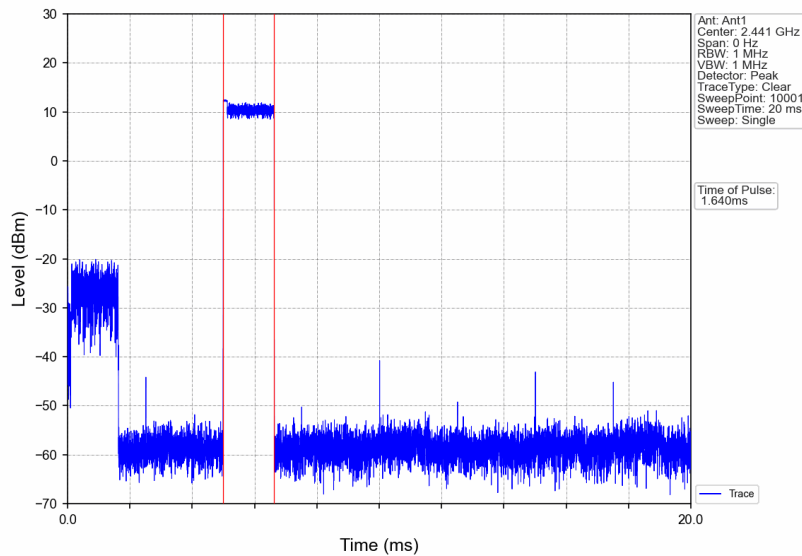
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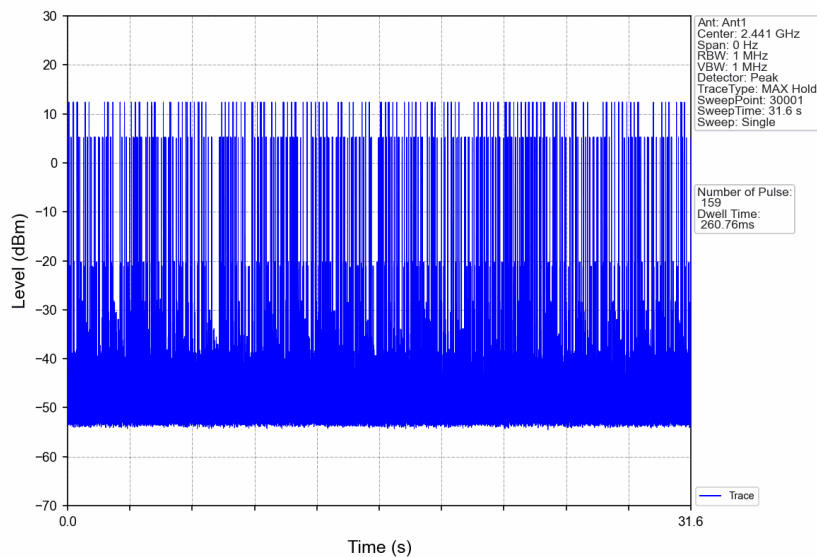
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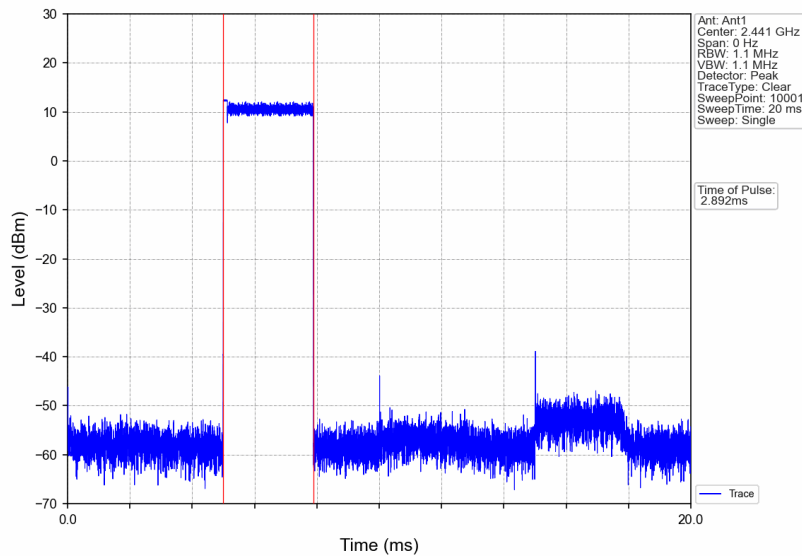
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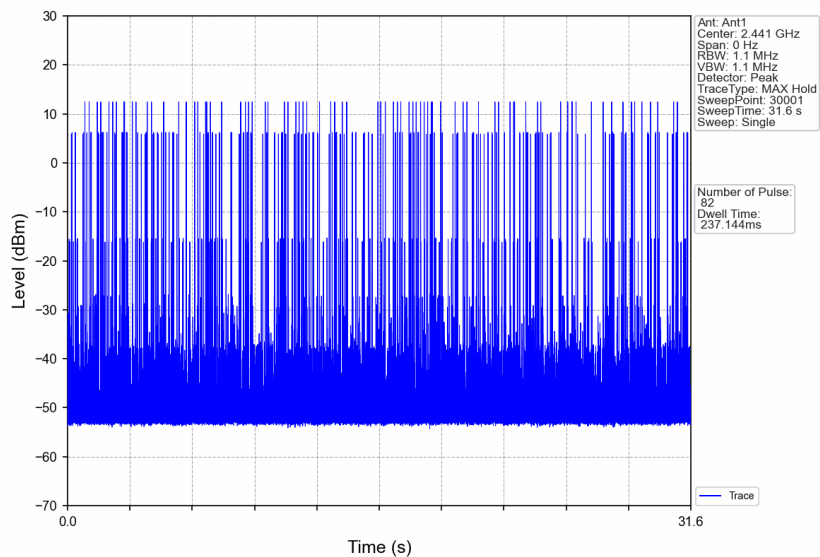
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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) |
|-----------|---------|-----------------|-------------|-----|--------------------------|
| GFSK | SISO | 2402 | DH5 | 1 | 12.12 |
| | | 2441 | DH5 | 1 | 12.17 |
| | | 2480 | DH5 | 1 | 12.07 |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | 12.22 |
| | | 2441 | 2DH5 | 1 | 12.16 |
| | | 2480 | 2DH5 | 1 | 12.27 |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | 12.45 |
| | | 2441 | 3DH5 | 1 | 12.38 |
| | | 2480 | 3DH5 | 1 | 12.30 |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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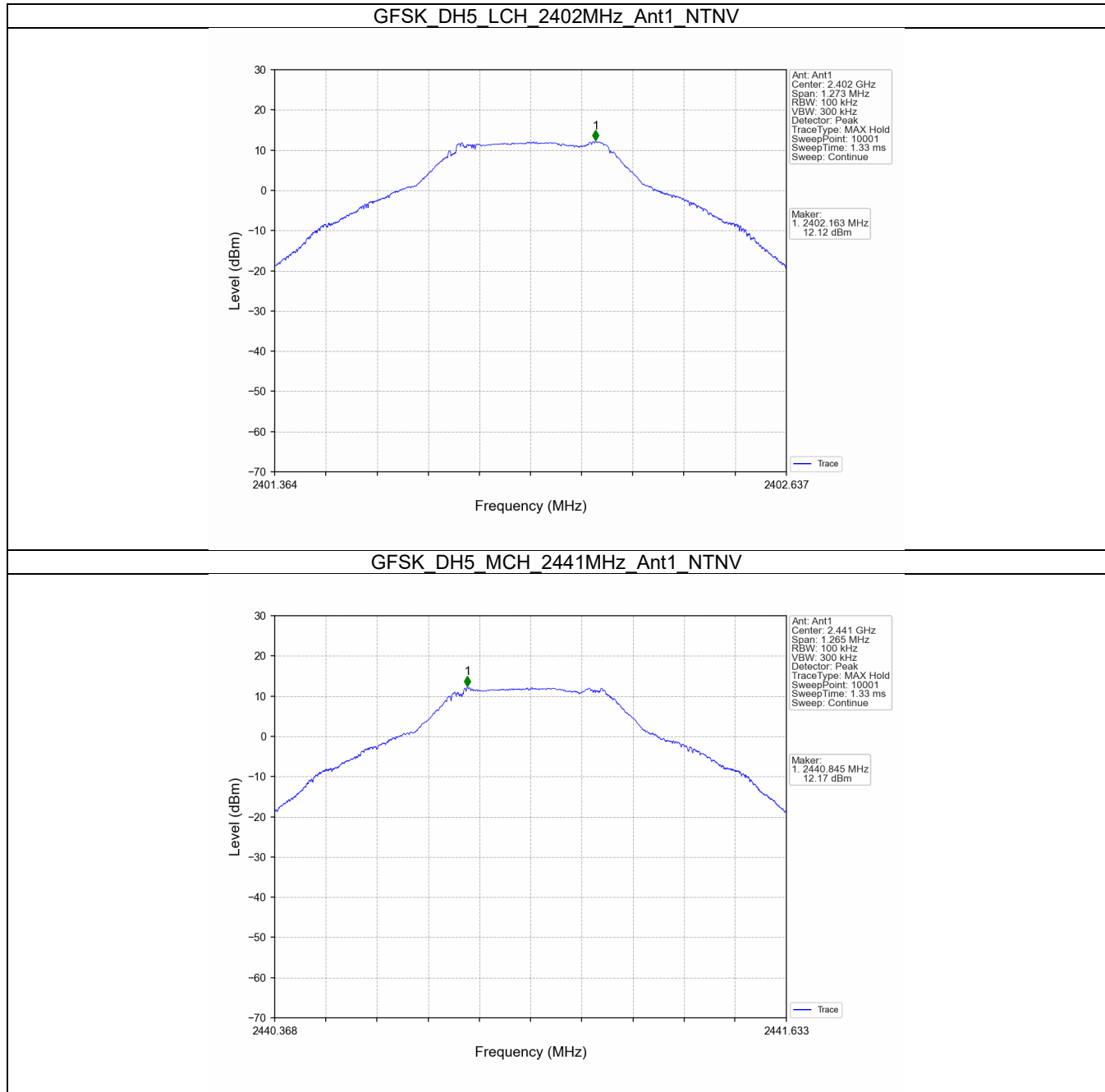
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6.1.2 Test Graph



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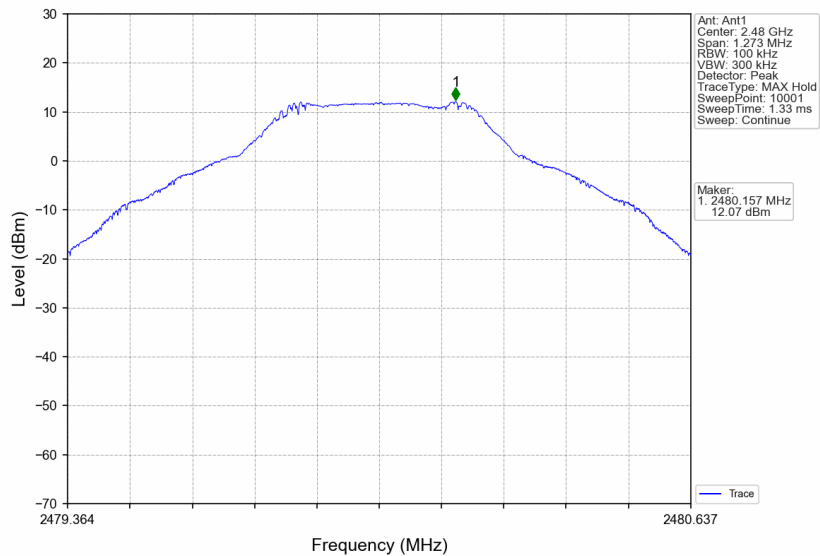
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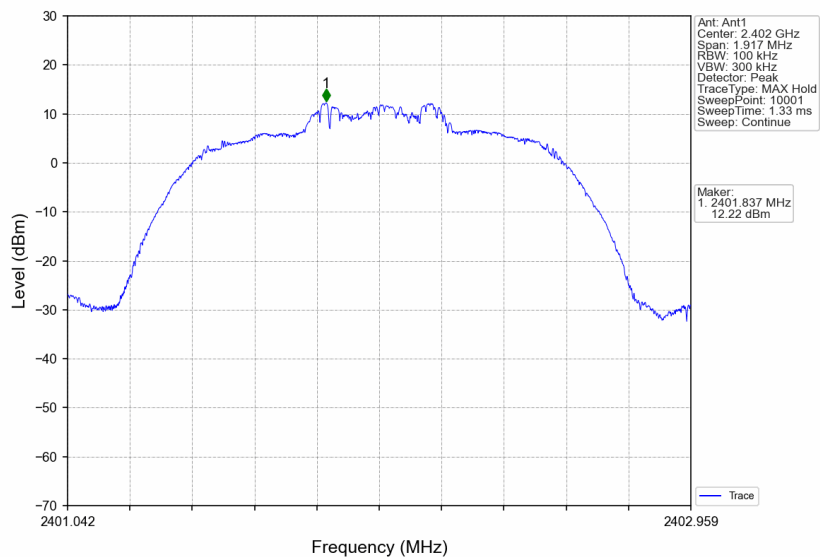
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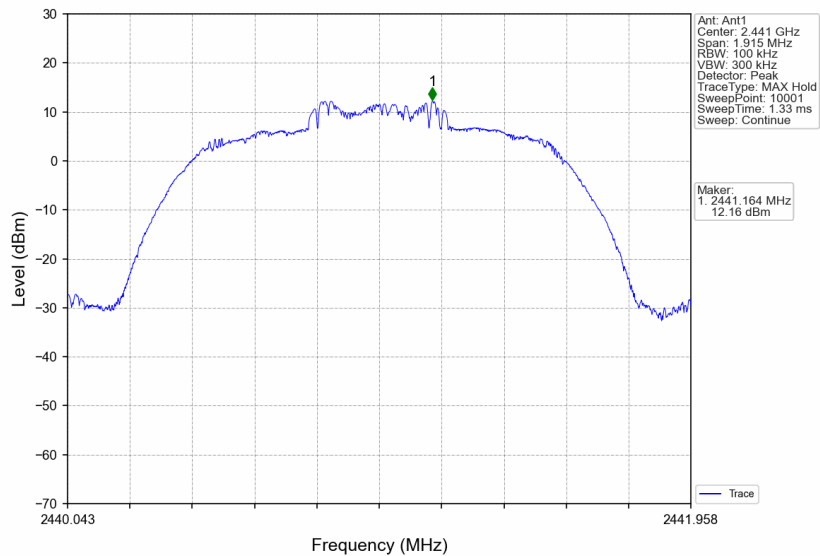
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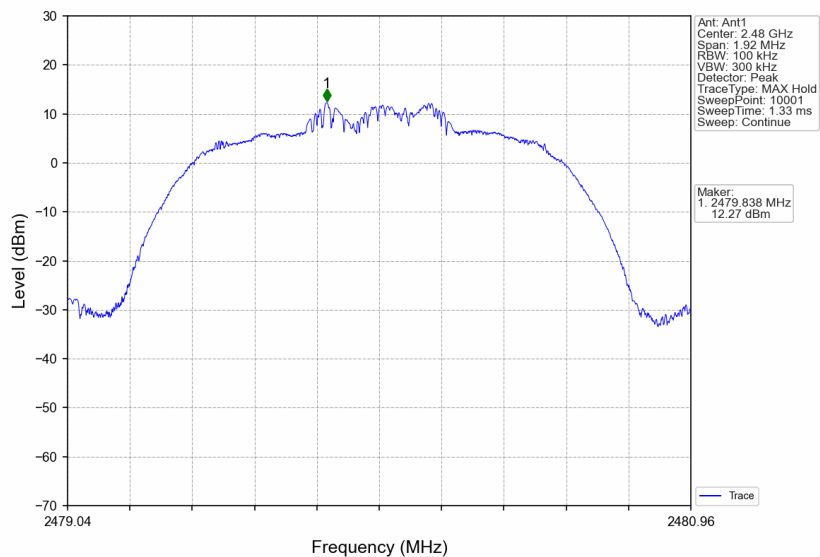
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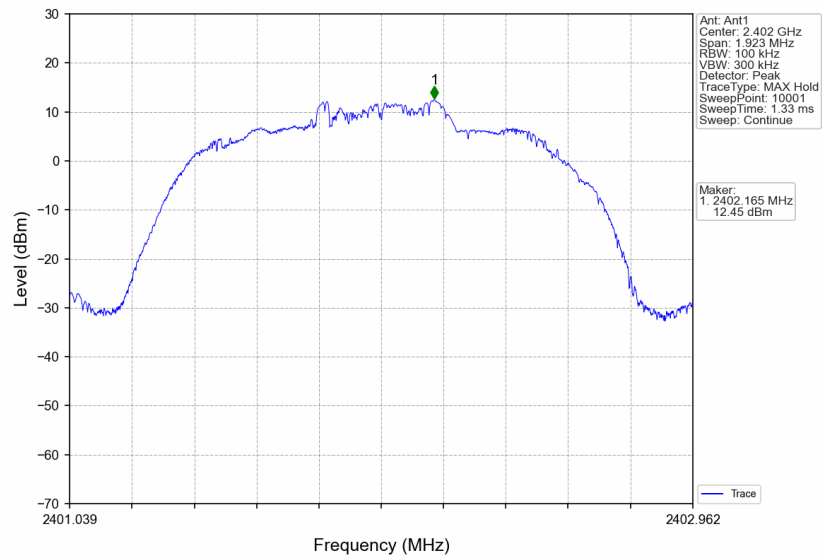
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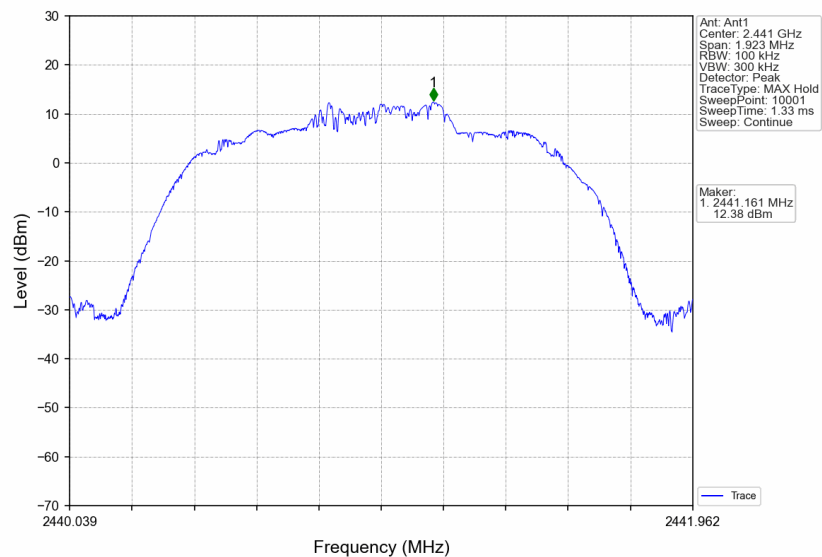
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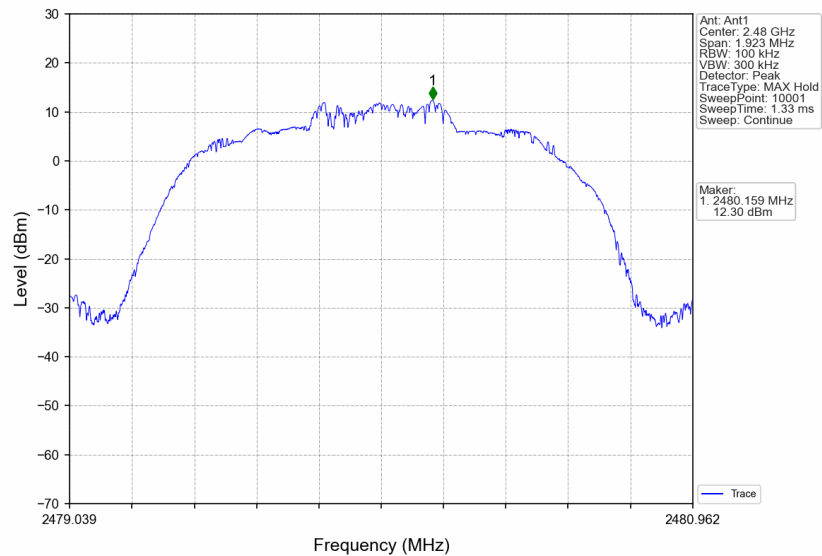
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6.2 CSE

6.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-------------|-----|--------------------------|-------------|---------|
| GFSK | SISO | 2402 | DH5 | 1 | 12.17 | -7.83 | Pass |
| | | 2441 | DH5 | 1 | 12.17 | -7.83 | Pass |
| | | 2480 | DH5 | 1 | 12.17 | -7.83 | Pass |
| | | HOPP | DH5 | 1 | 12.17 | -7.83 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | 12.27 | -7.73 | Pass |
| | | 2441 | 2DH5 | 1 | 12.27 | -7.73 | Pass |
| | | 2480 | 2DH5 | 1 | 12.27 | -7.73 | Pass |
| | | HOPP | 2DH5 | 1 | 12.27 | -7.73 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | 12.45 | -7.55 | Pass |
| | | 2441 | 3DH5 | 1 | 12.45 | -7.55 | Pass |
| | | 2480 | 3DH5 | 1 | 12.45 | -7.55 | Pass |
| | | HOPP | 3DH5 | 1 | 12.45 | -7.55 | Pass |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



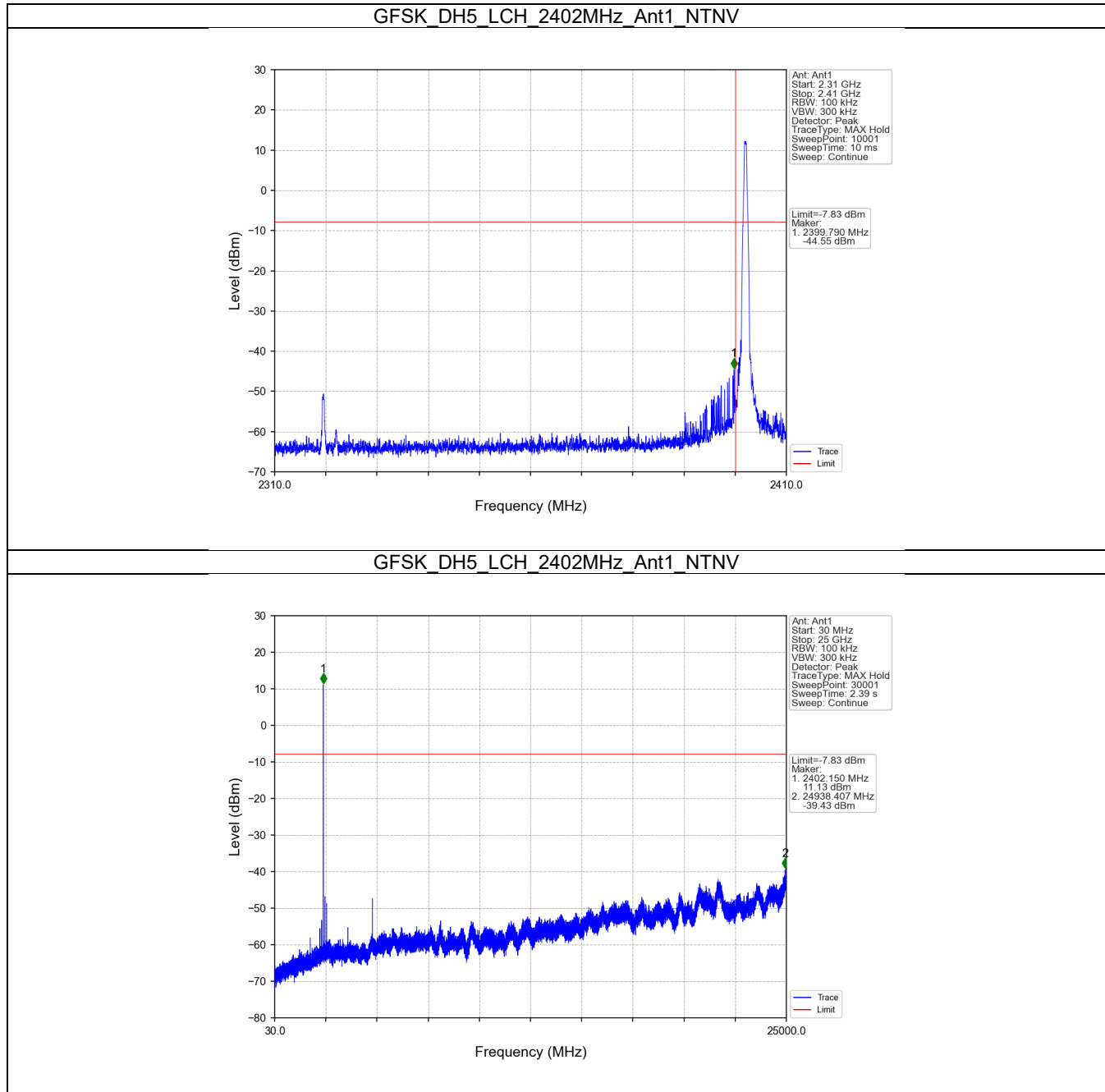
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6.2.2 Test Graph



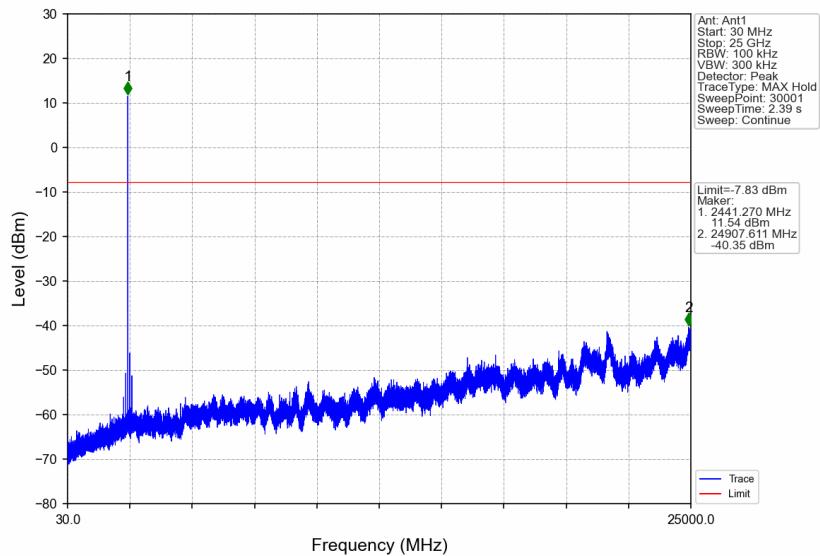
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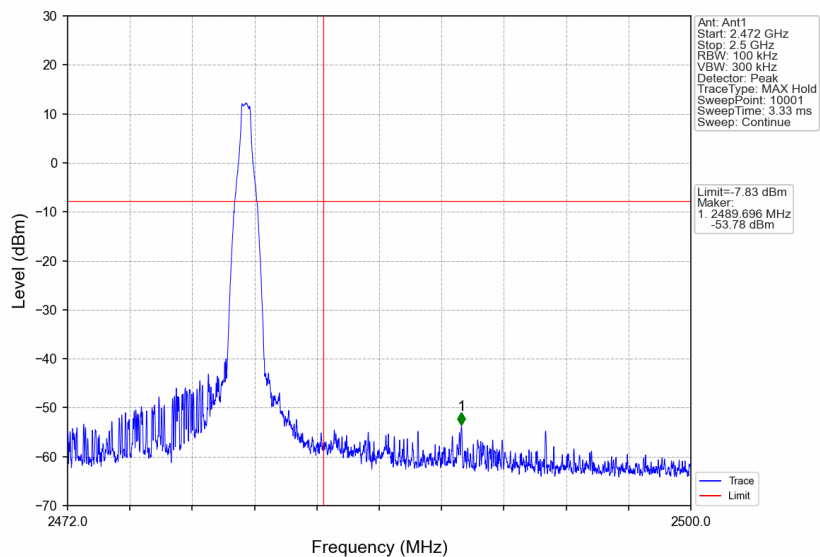
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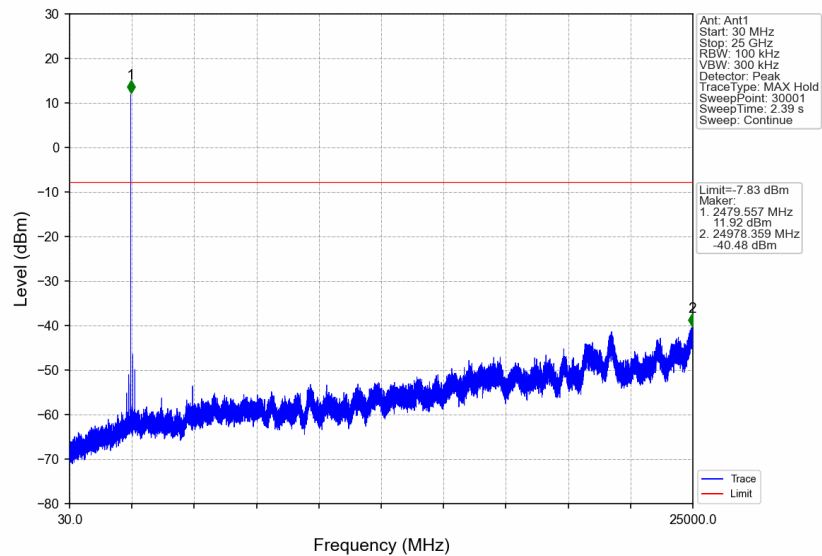
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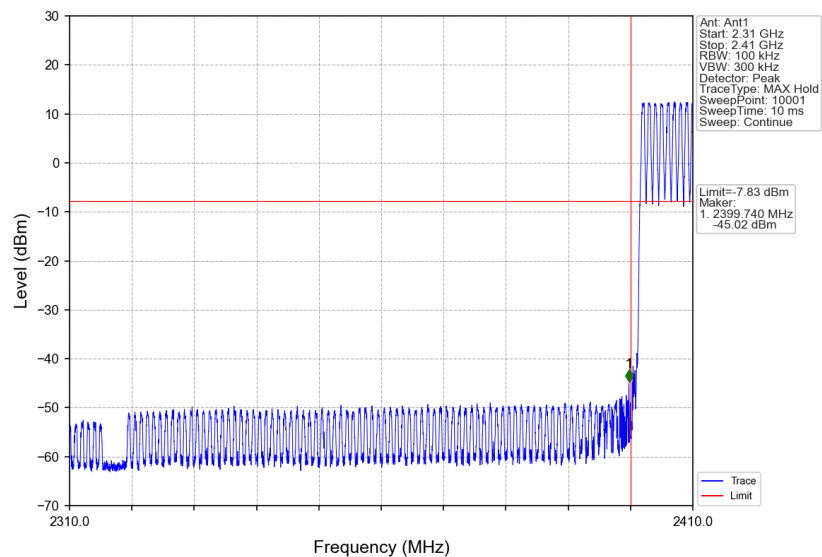
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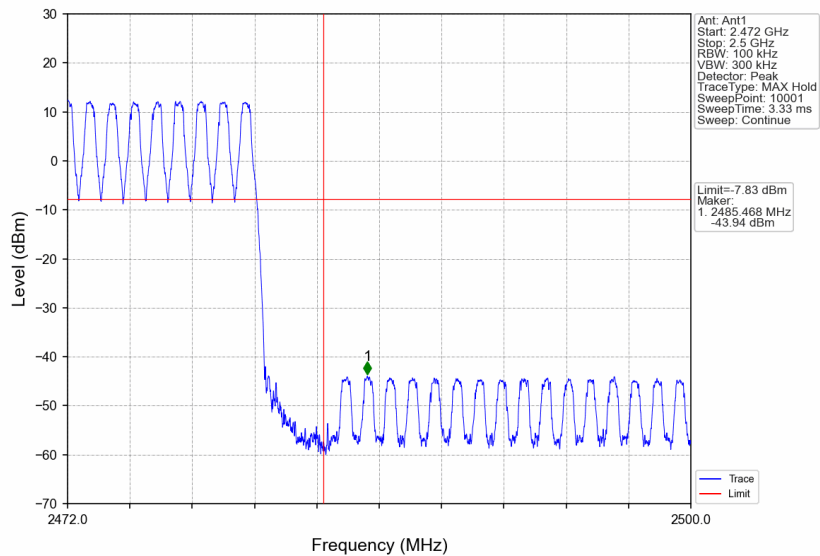
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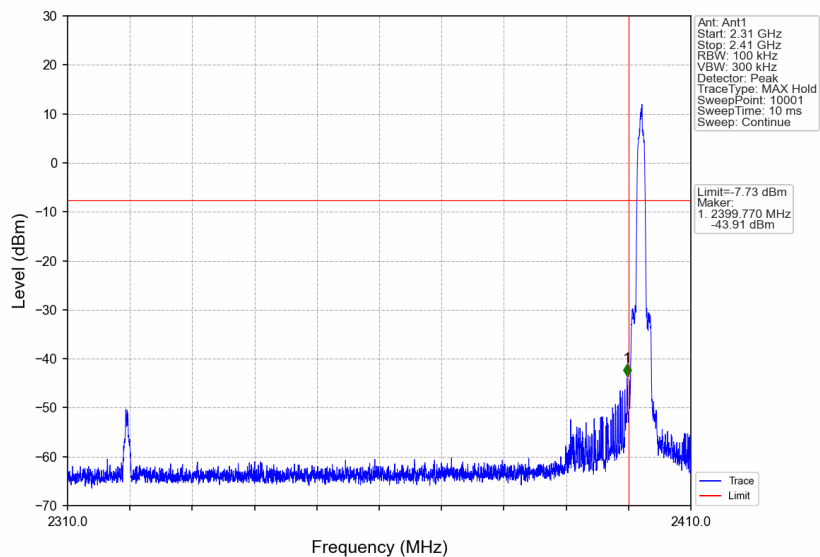
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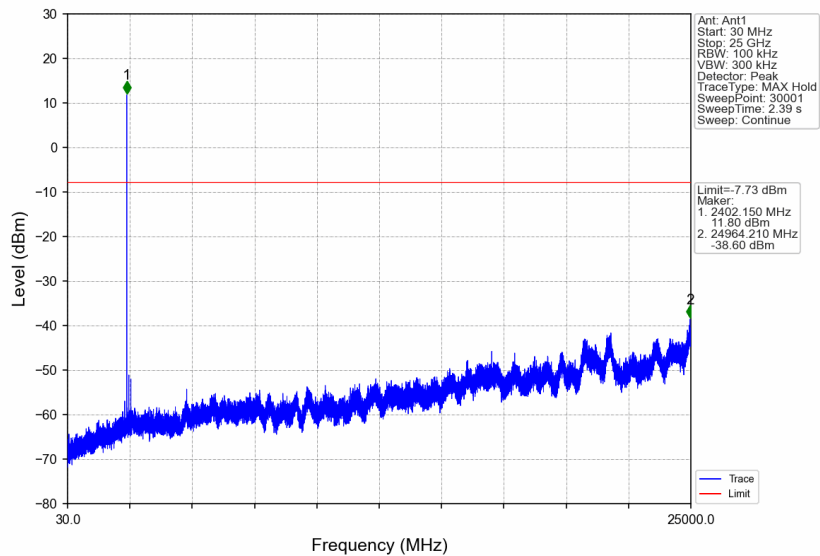
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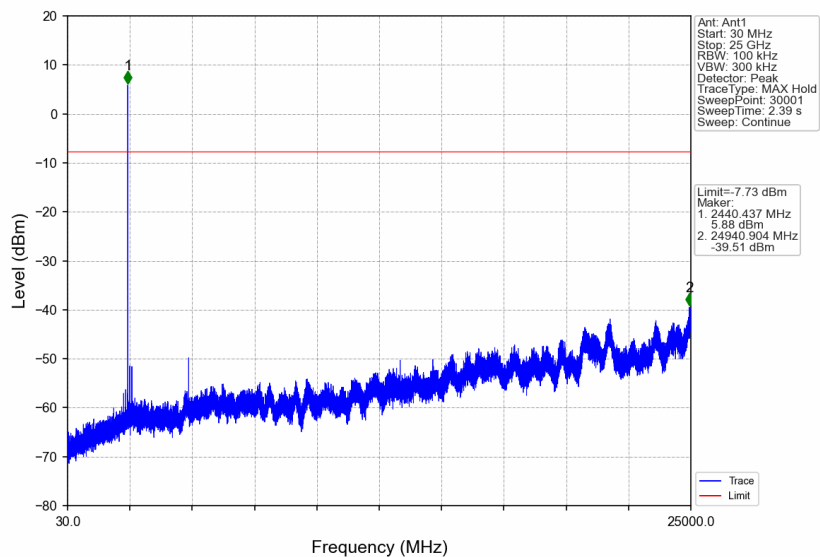
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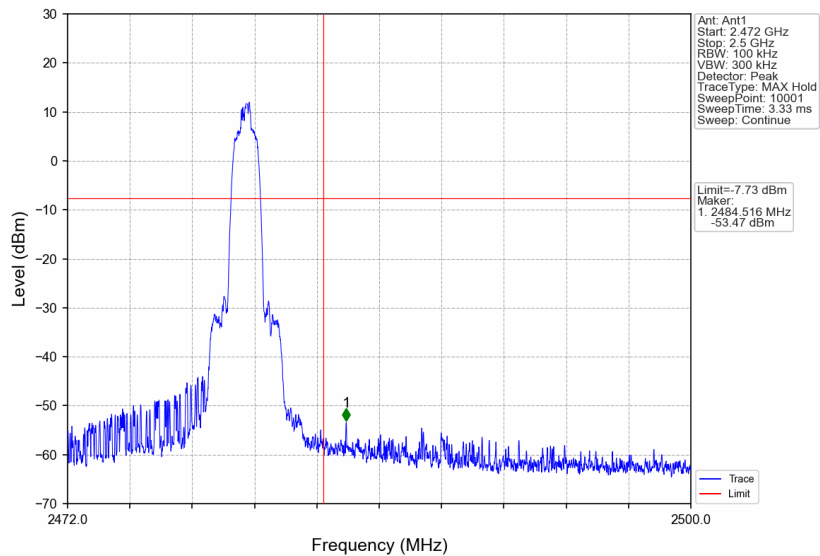
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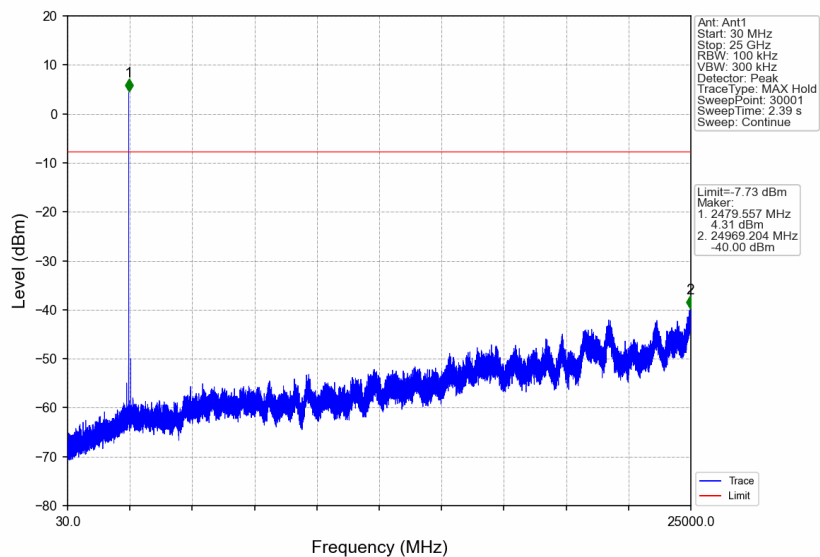
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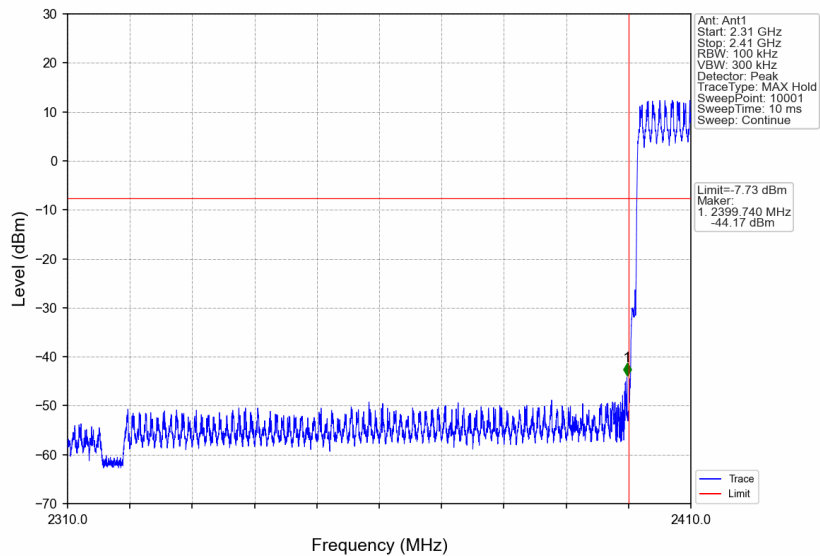
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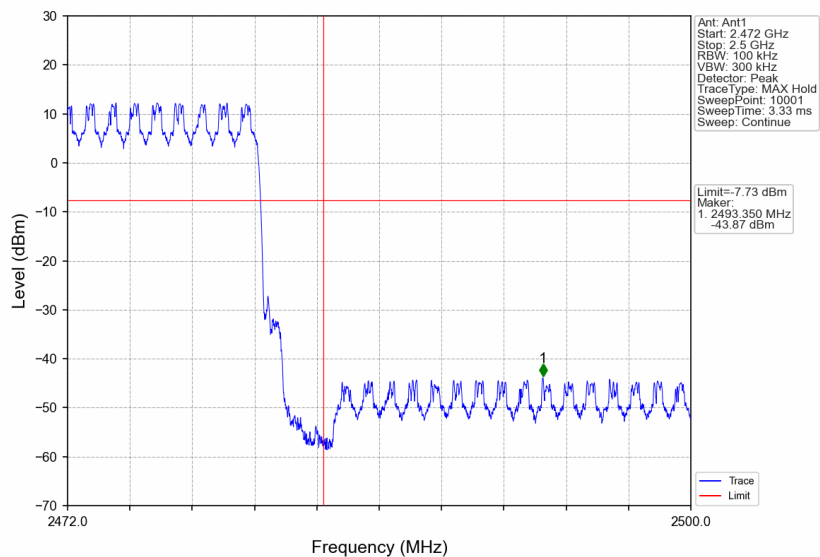
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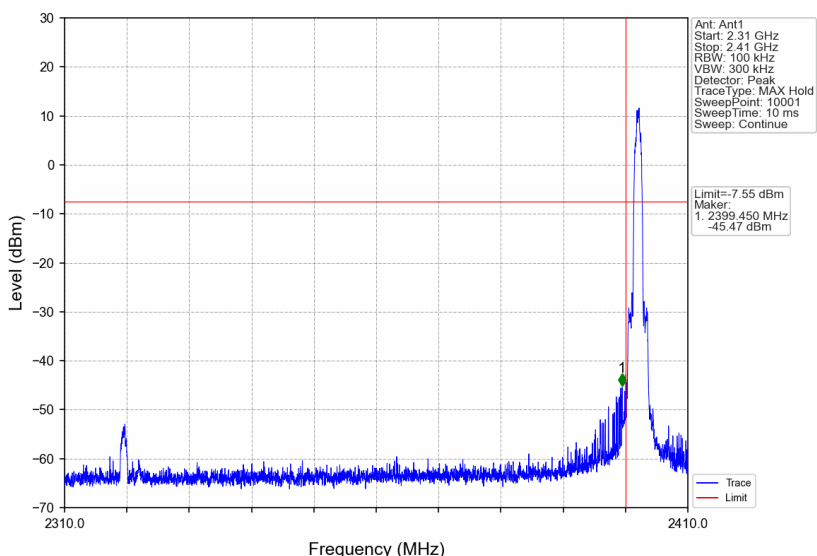
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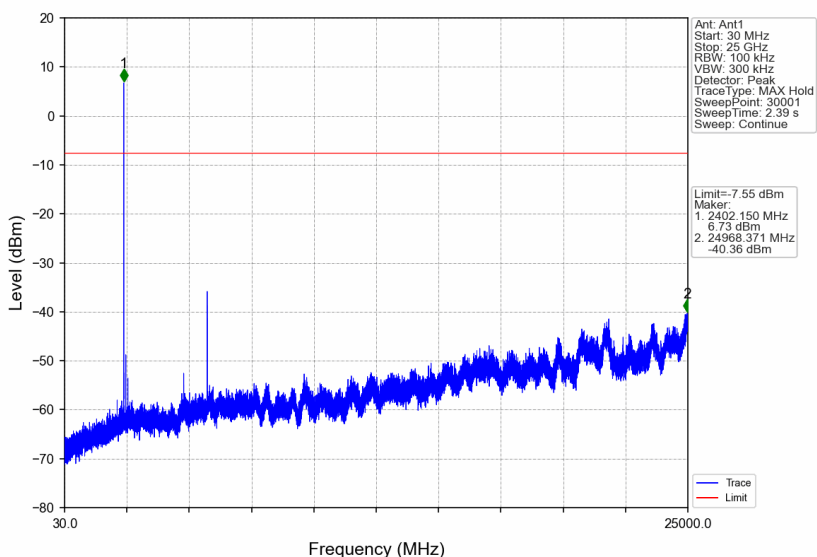
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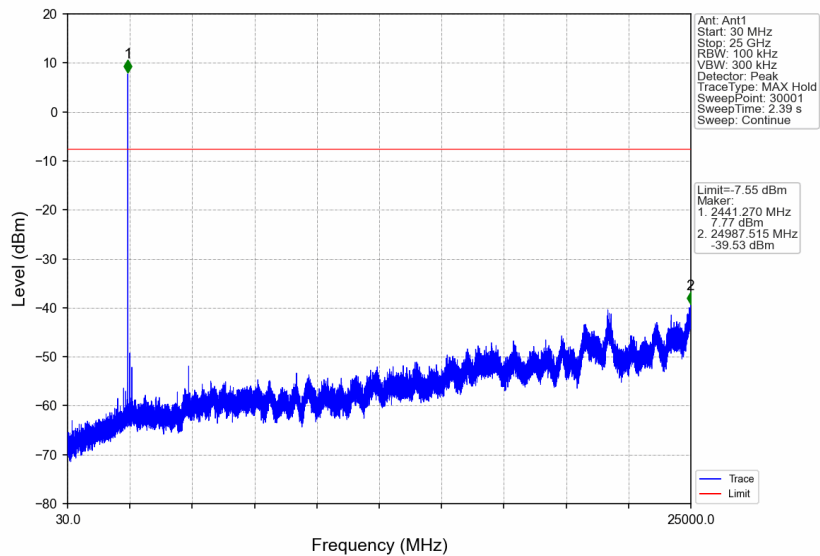
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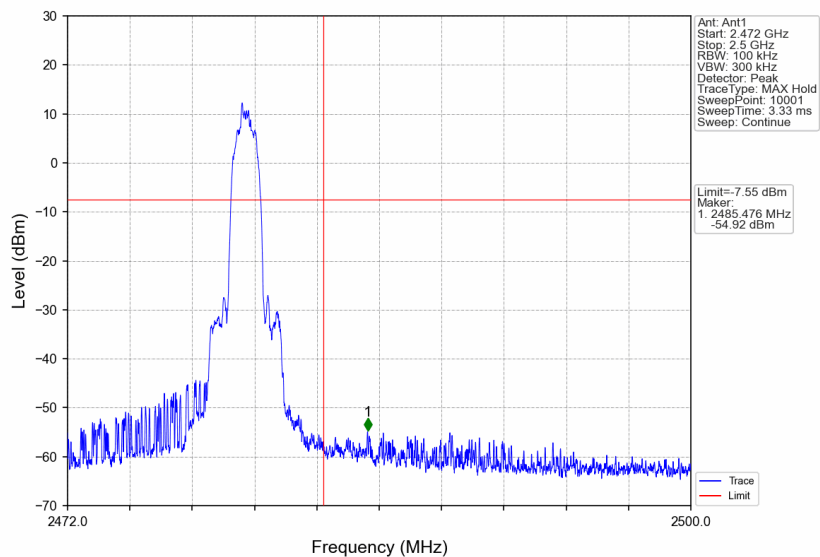
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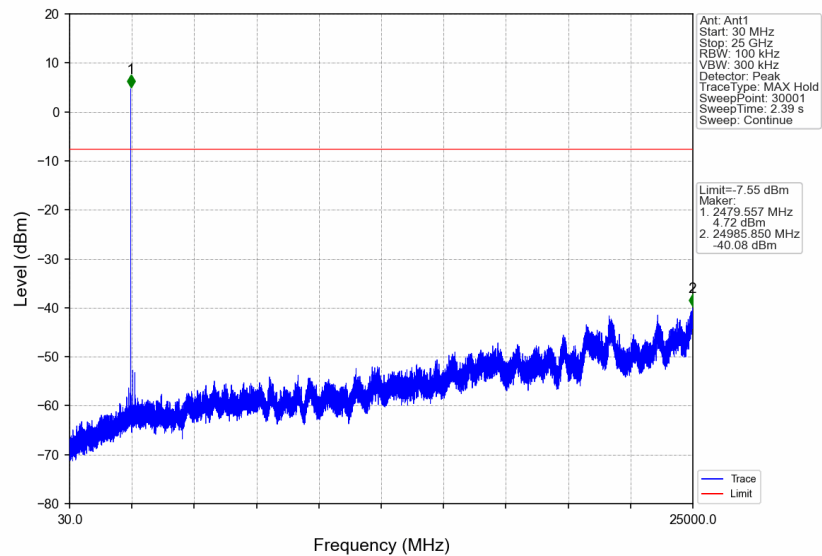
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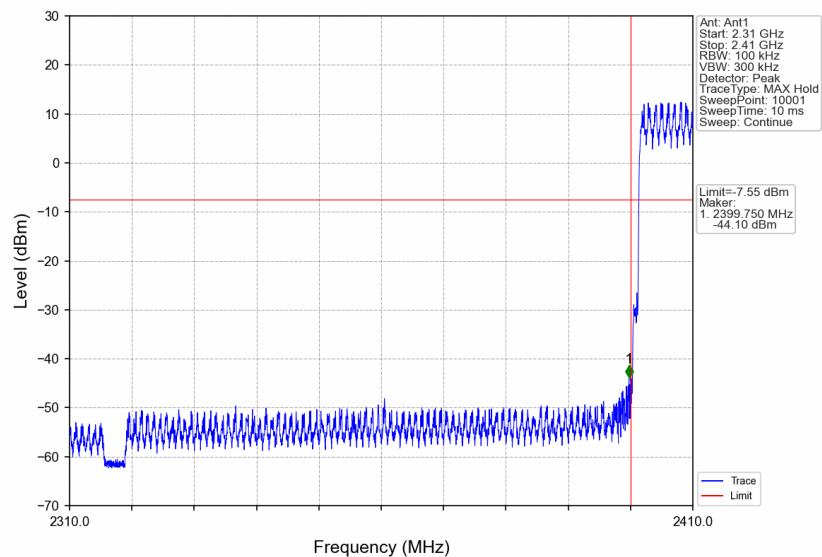
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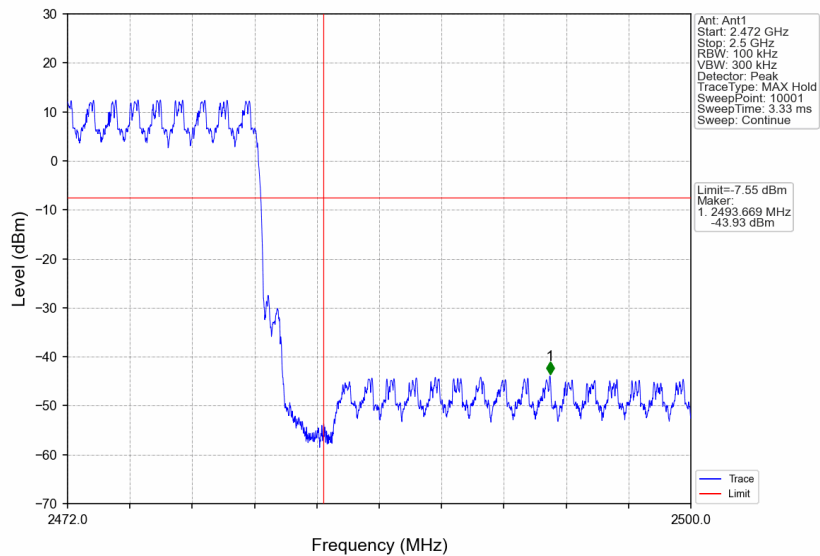
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