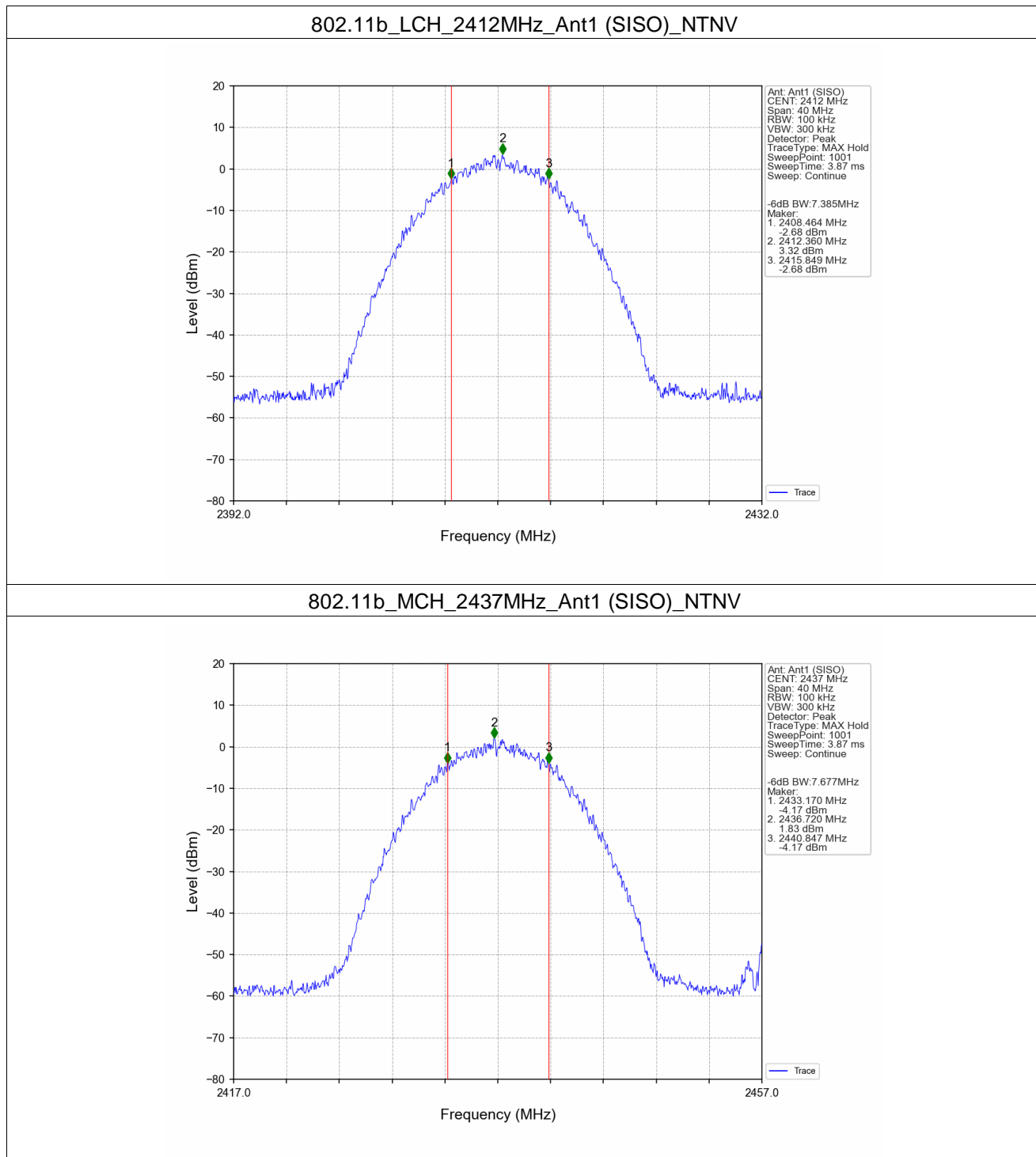


2.2 Test Graph

2.2.1 6dB BW



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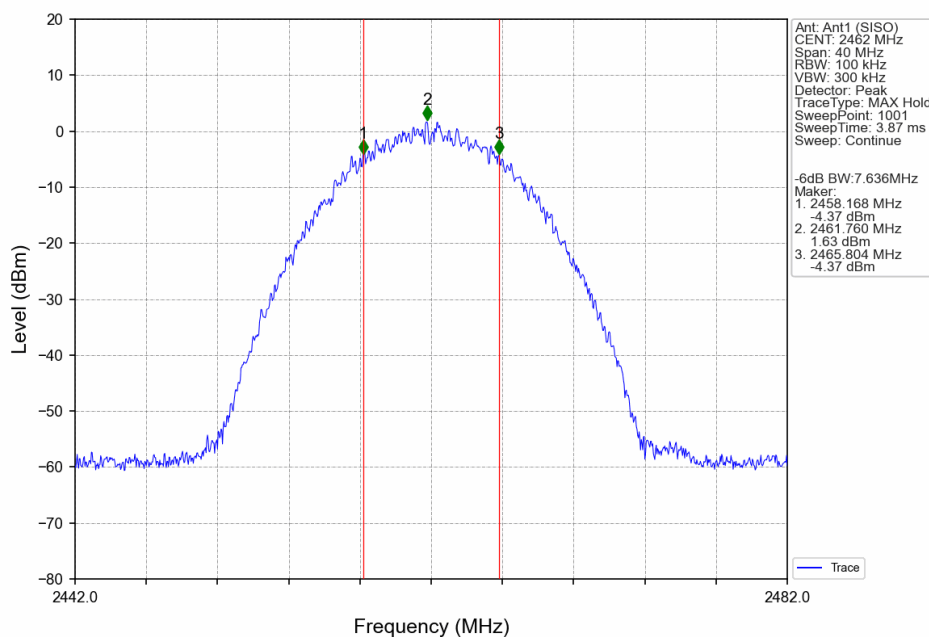
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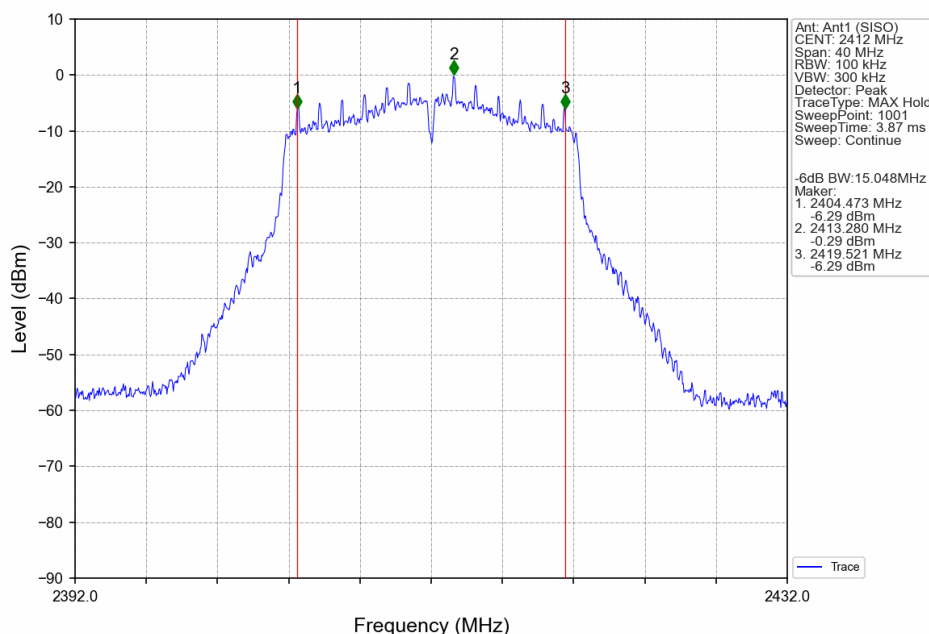
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

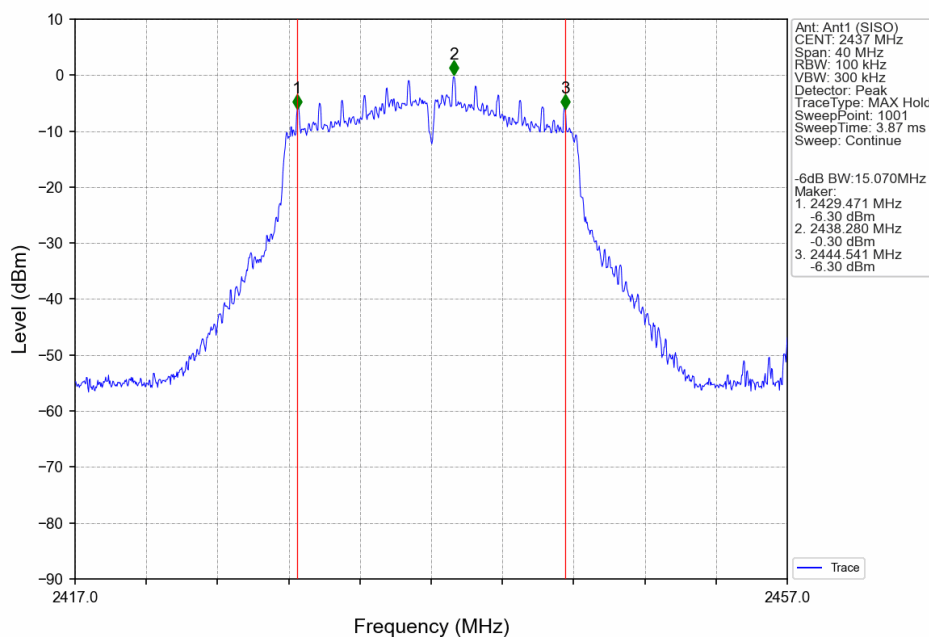
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



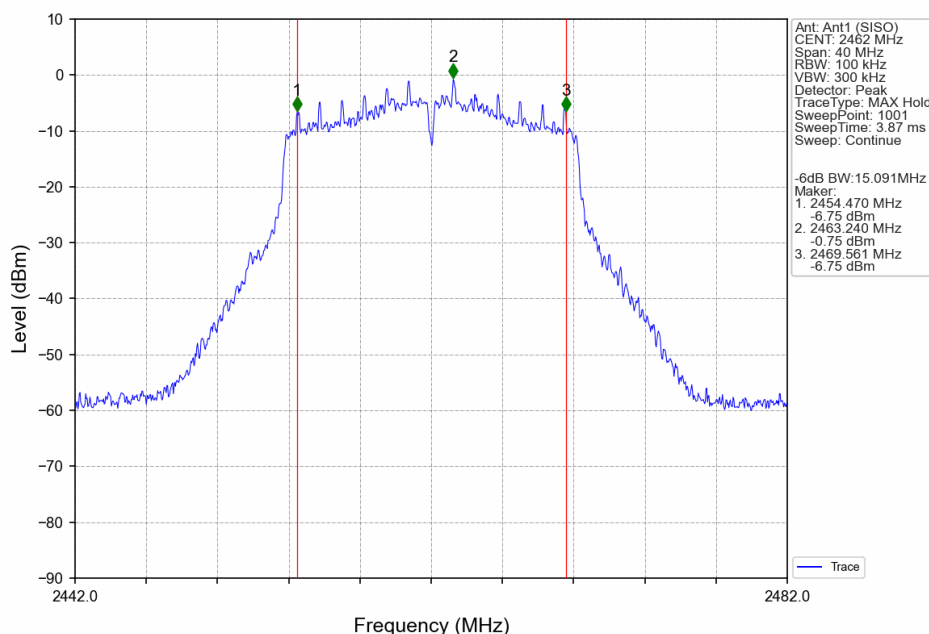
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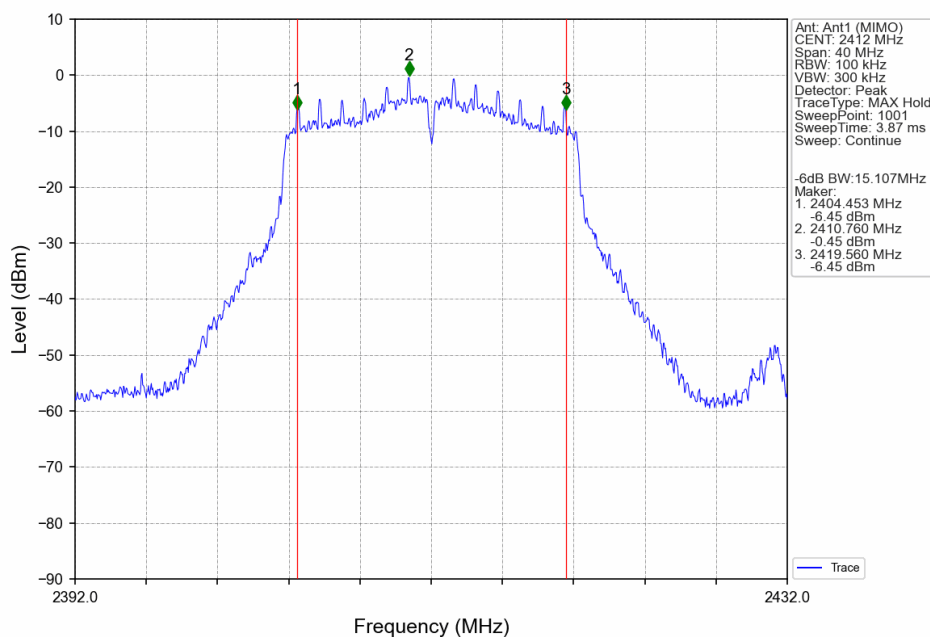
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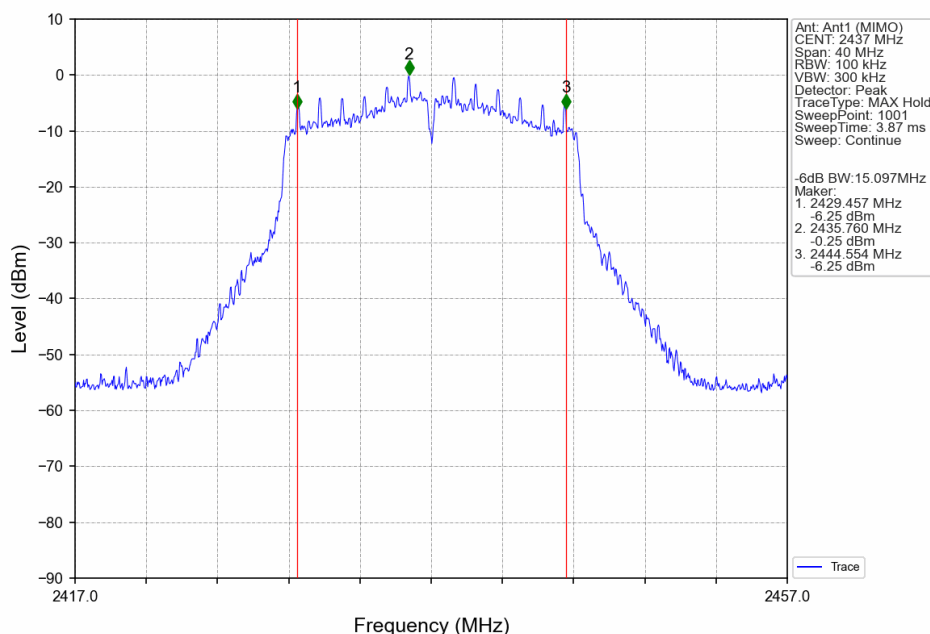
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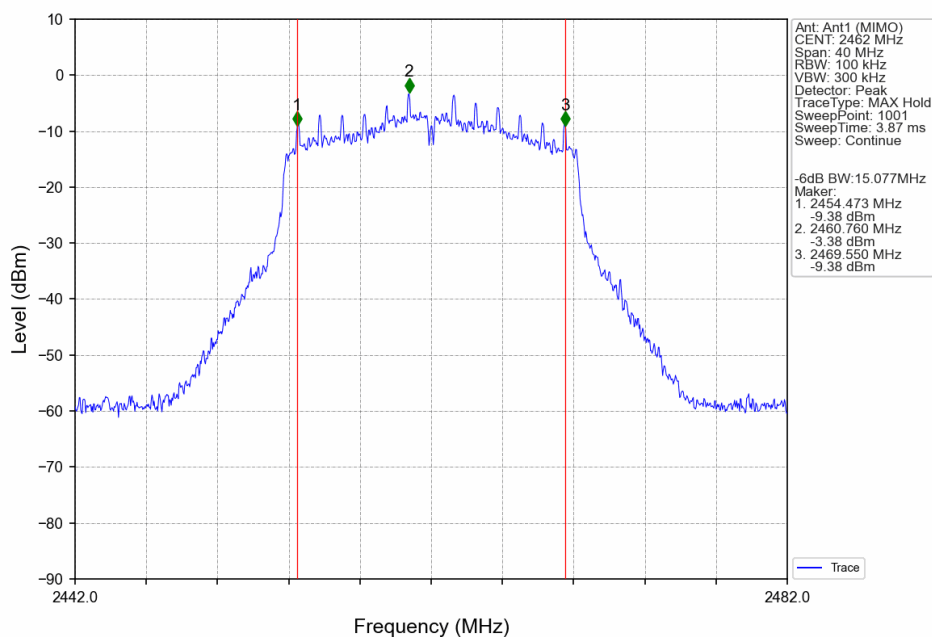
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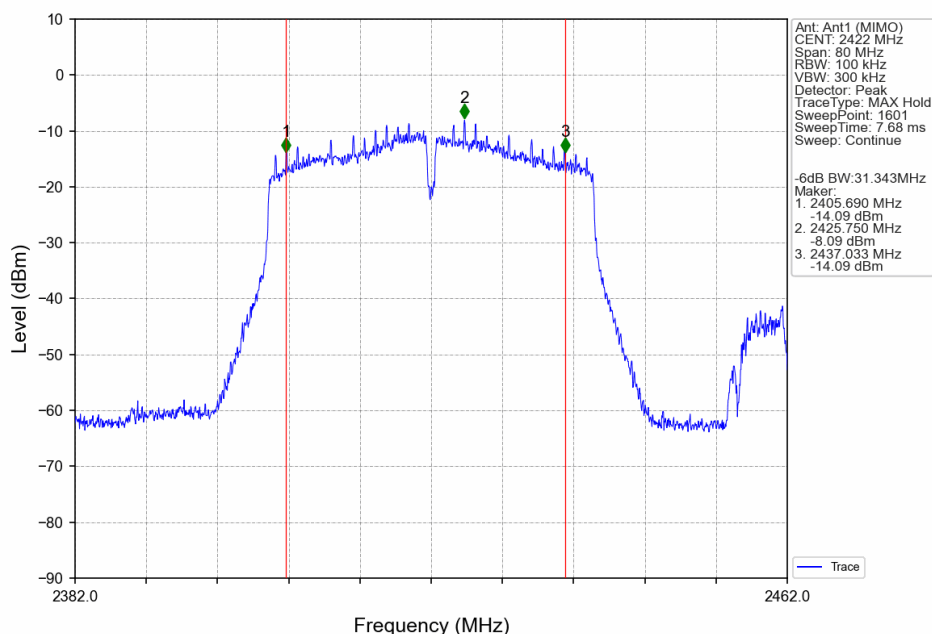
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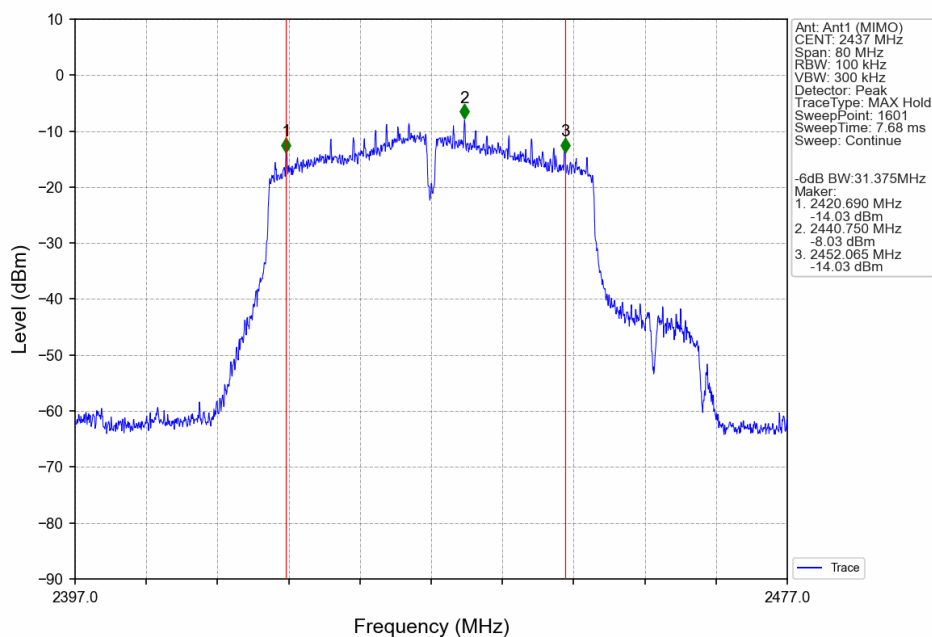
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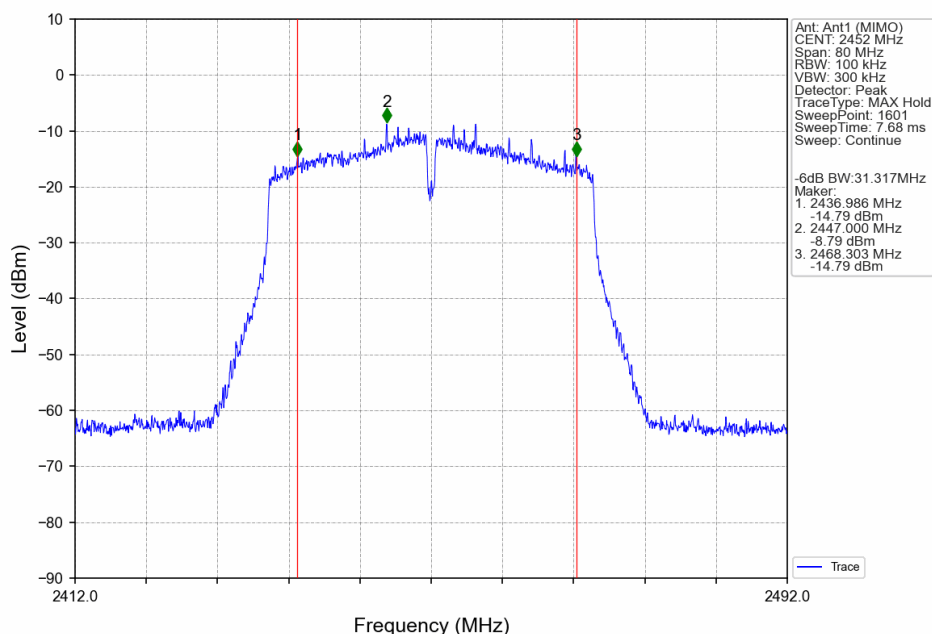
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



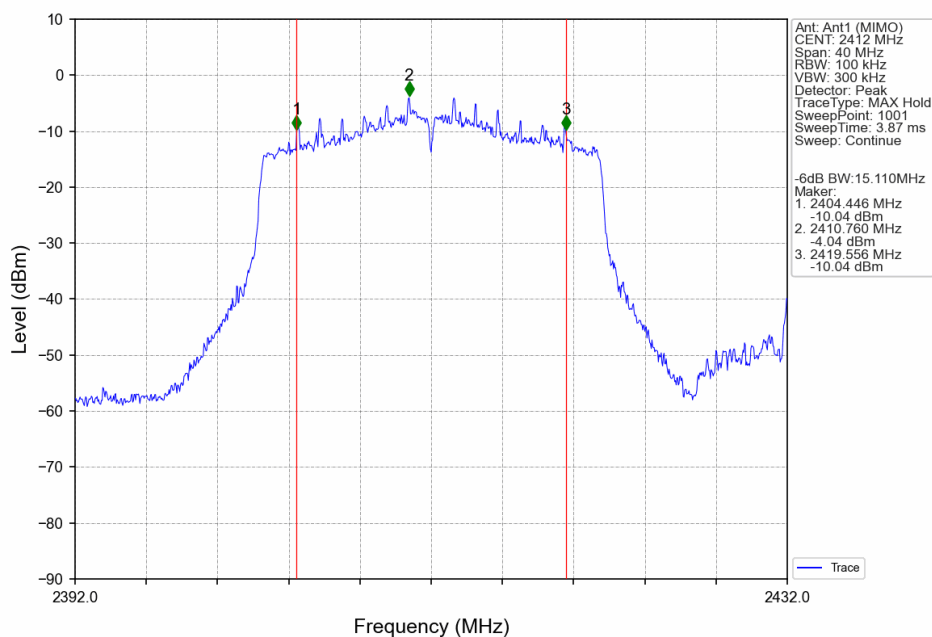
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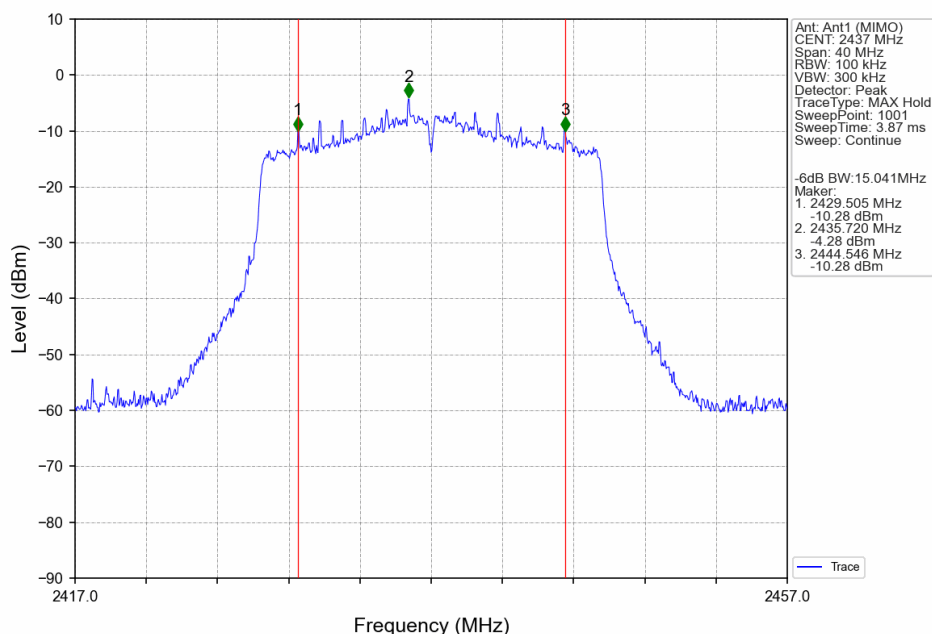
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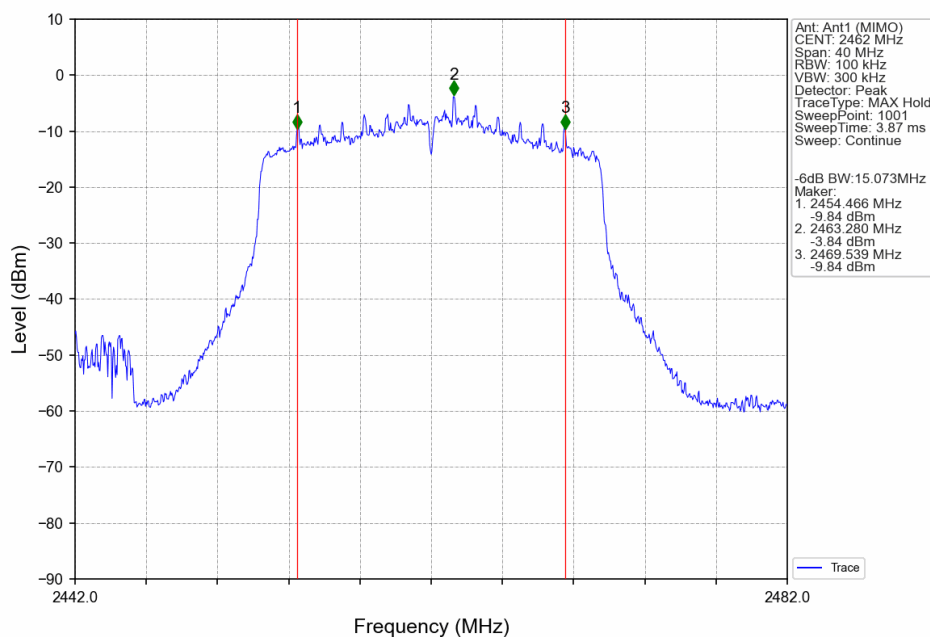
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



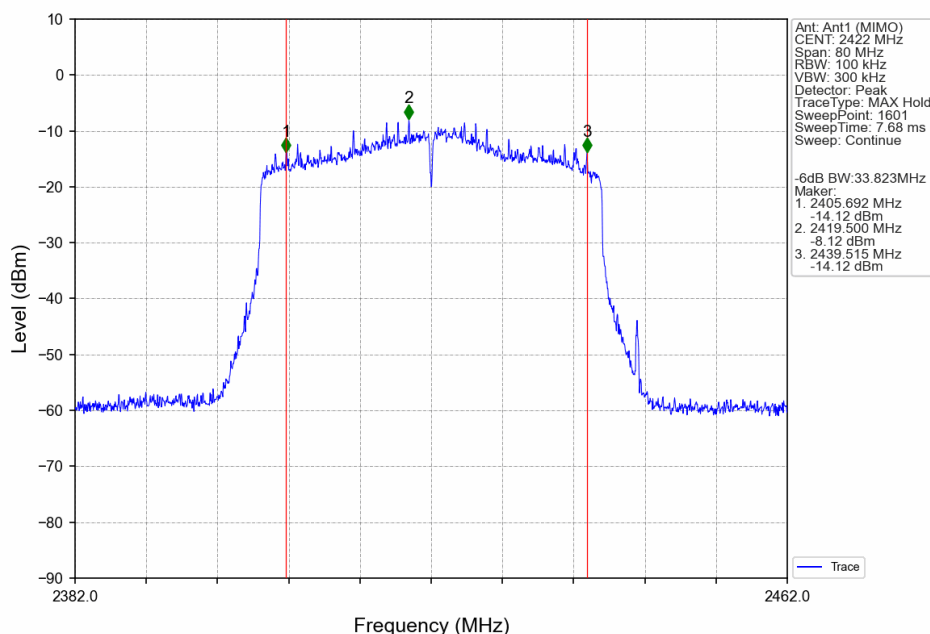
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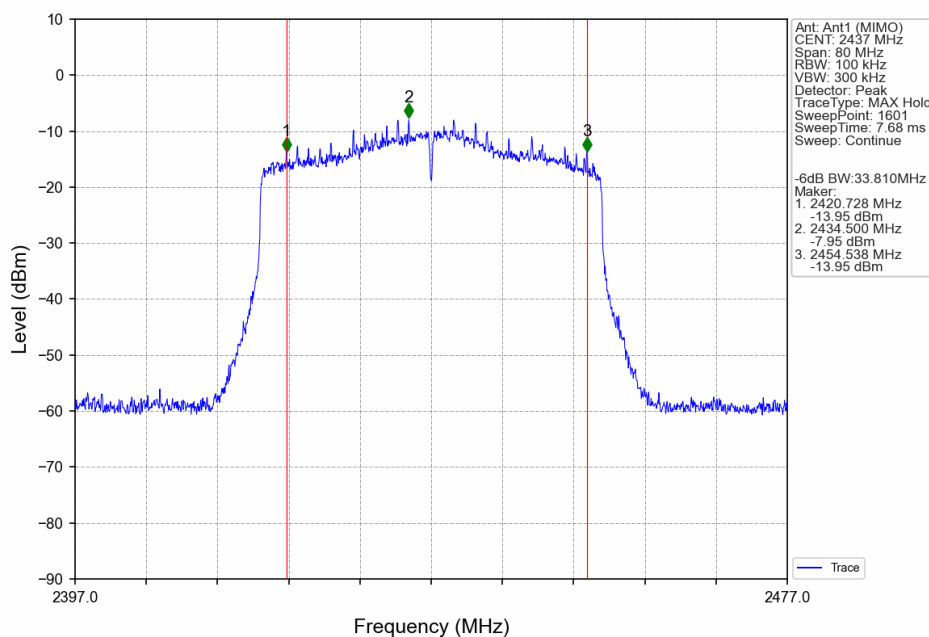
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV



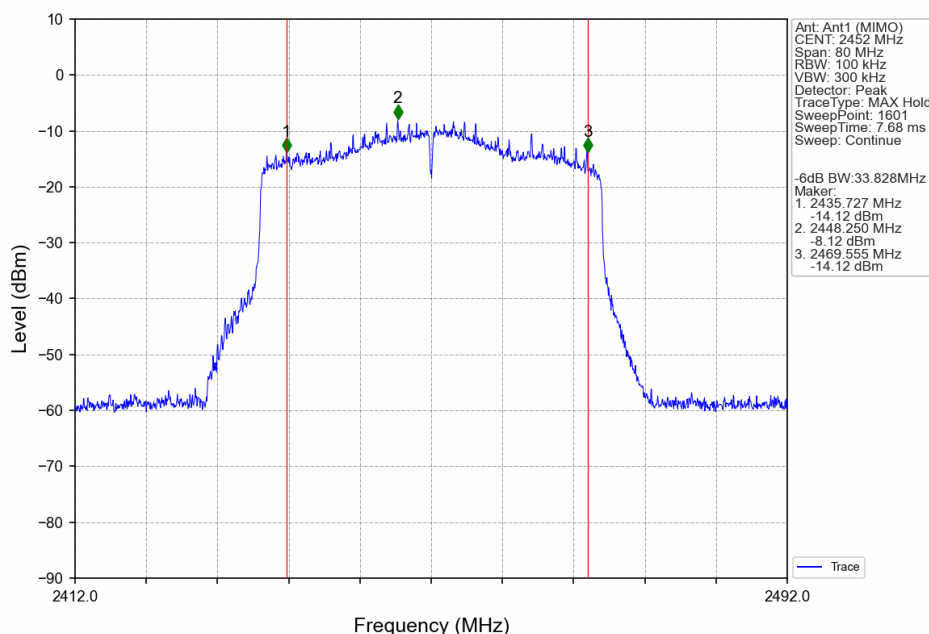
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

| Mode | TX Type | Frequency (MHz) | RU | RU Pos | Maximum Peak Conducted Output Power (dBm) | | | | Verdict |
|------------------|---------|-----------------|-------|--------|---|-------|-------|-------|---------|
| | | | | | ANT1 | ANT2 | MIMO | Limit | |
| 802.11b | SISO | 2412 | / | / | 16.07 | 13.33 | / | <=30 | Pass |
| | | 2437 | / | / | 14.67 | 13.26 | / | <=30 | Pass |
| | | 2462 | / | / | 14.53 | 12.98 | / | <=30 | Pass |
| 802.11g | SISO | 2412 | / | / | 15.67 | 14.00 | / | <=30 | Pass |
| | | 2437 | / | / | 15.55 | 14.07 | / | <=30 | Pass |
| | | 2462 | / | / | 15.47 | 14.00 | / | <=30 | Pass |
| 802.11n (HT20) | MIMO | 2412 | / | / | 15.45 | 14.28 | 17.91 | <=30 | Pass |
| | | 2437 | / | / | 15.69 | 14.50 | 18.15 | <=30 | Pass |
| | | 2462 | / | / | 12.81 | 11.39 | 15.17 | <=30 | Pass |
| 802.11n (HT40) | MIMO | 2422 | / | / | 11.91 | 10.42 | 14.24 | <=30 | Pass |
| | | 2437 | / | / | 11.85 | 10.46 | 14.22 | <=30 | Pass |
| | | 2452 | / | / | 11.84 | 10.44 | 14.21 | <=30 | Pass |
| 802.11ax (HEW20) | MIMO | 2412 | RU242 | Left | 13.58 | 11.55 | 15.69 | <=30 | Pass |
| | | 2437 | RU242 | Left | 13.37 | 11.45 | 15.53 | <=30 | Pass |
| | | 2462 | RU242 | Left | 13.16 | 11.54 | 15.44 | <=30 | Pass |
| 802.11ax (HEW40) | MIMO | 2422 | RU484 | Left | 13.16 | 11.63 | 15.47 | <=30 | Pass |
| | | 2437 | RU484 | Left | 13.15 | 11.69 | 15.49 | <=30 | Pass |
| | | 2452 | RU484 | Left | 12.97 | 11.92 | 15.49 | <=30 | Pass |

Note1: Antenna Gain: Ant1: 2.98dBi; Ant2: 2.98dBi;

Note2: Directional Gain: Band1: 5.99dBi



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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

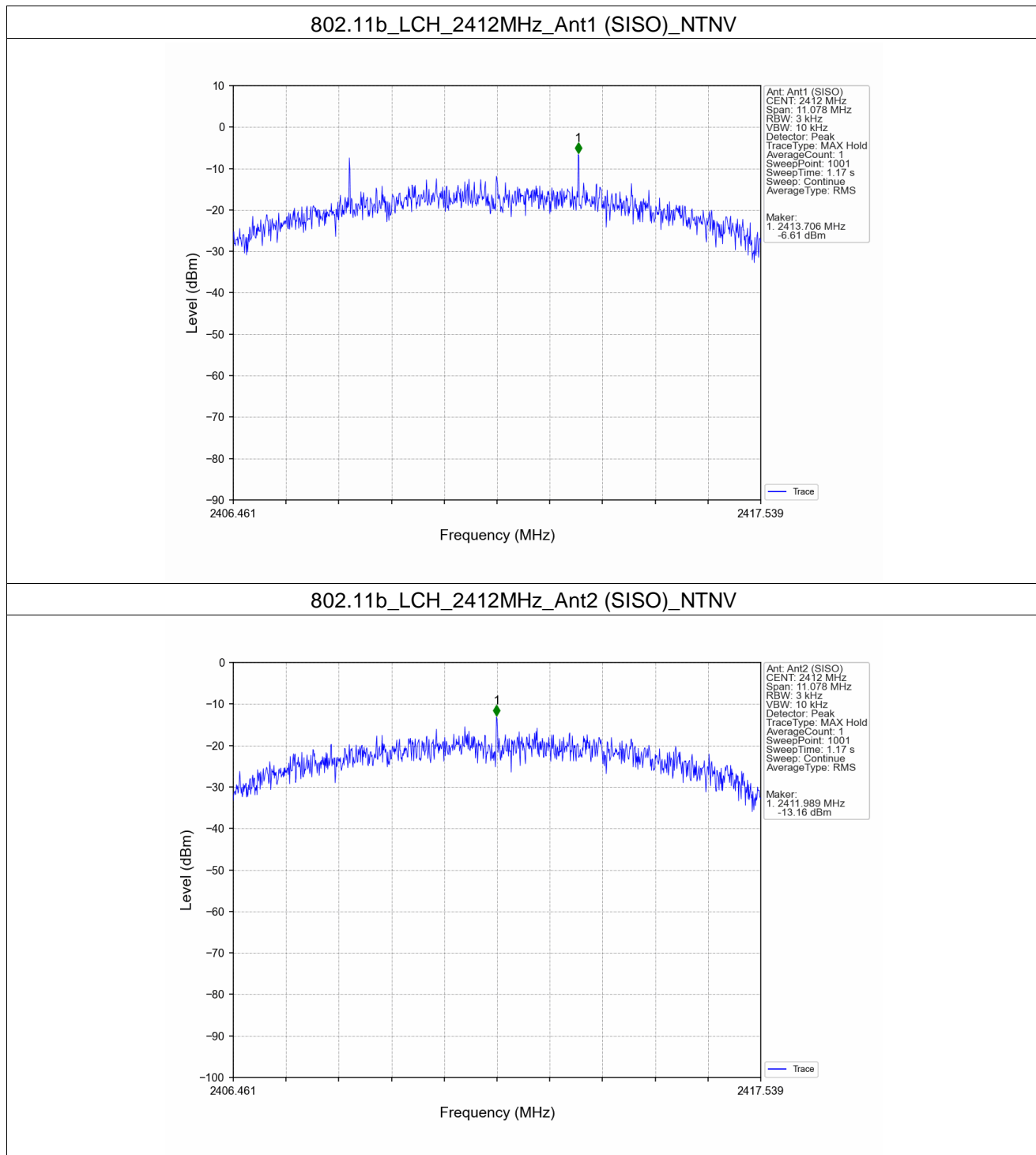
| Mode | TX Type | Frequency (MHz) | RU | RU Pos | Maximum PSD (dBm/3kHz) | | | | Verdict |
|------------------|---------|-----------------|-------|--------|------------------------|--------|--------|-------|---------|
| | | | | | ANT1 | ANT2 | MIMO | Limit | |
| 802.11b | SISO | 2412 | / | / | -6.61 | -13.16 | / | <=8 | Pass |
| | | 2437 | / | / | -8.39 | -7.73 | / | <=8 | Pass |
| | | 2462 | / | / | -14.64 | -9.26 | / | <=8 | Pass |
| 802.11g | SISO | 2412 | / | / | -17.66 | -20.26 | / | <=8 | Pass |
| | | 2437 | / | / | -16.16 | -19.28 | / | <=8 | Pass |
| | | 2462 | / | / | -17.76 | -19.87 | / | <=8 | Pass |
| 802.11n (HT20) | MIMO | 2412 | / | / | -17.08 | -19.10 | -15.71 | <=8 | Pass |
| | | 2437 | / | / | -16.78 | -18.04 | -14.37 | <=8 | Pass |
| | | 2462 | / | / | -14.11 | -16.33 | -12.07 | <=8 | Pass |
| 802.11n (HT40) | MIMO | 2422 | / | / | -22.87 | -25.49 | -21.04 | <=8 | Pass |
| | | 2437 | / | / | -22.41 | -24.21 | -20.81 | <=8 | Pass |
| | | 2452 | / | / | -22.88 | -24.70 | -21.16 | <=8 | Pass |
| 802.11ax (HEW20) | MIMO | 2412 | RU242 | Left | -21.55 | -22.13 | -19.55 | <=8 | Pass |
| | | 2437 | RU242 | Left | -21.53 | -23.52 | -20.03 | <=8 | Pass |
| | | 2462 | RU242 | Left | -22.10 | -22.85 | -20.02 | <=8 | Pass |
| 802.11ax (HEW40) | MIMO | 2422 | RU484 | Left | -23.22 | -24.92 | -21.72 | <=8 | Pass |
| | | 2437 | RU484 | Left | -21.97 | -24.88 | -20.80 | <=8 | Pass |
| | | 2452 | RU484 | Left | -23.22 | -24.63 | -21.39 | <=8 | Pass |

Note1: Antenna Gain: Ant1: 2.98dBi; Ant2: 2.98dBi;

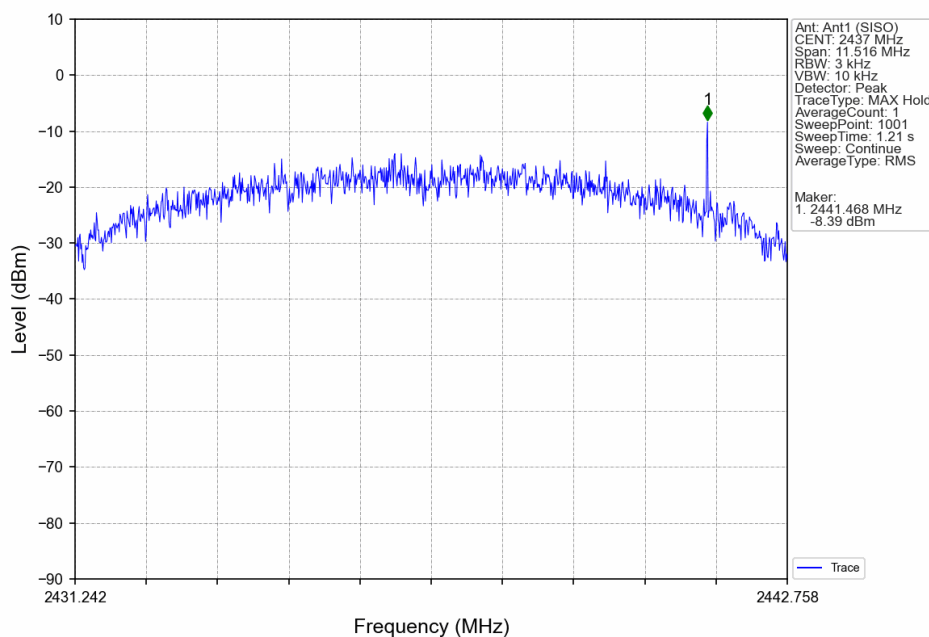
Note2: Directional Gain: Band1: 5.99dBi

4.2 Test Graph

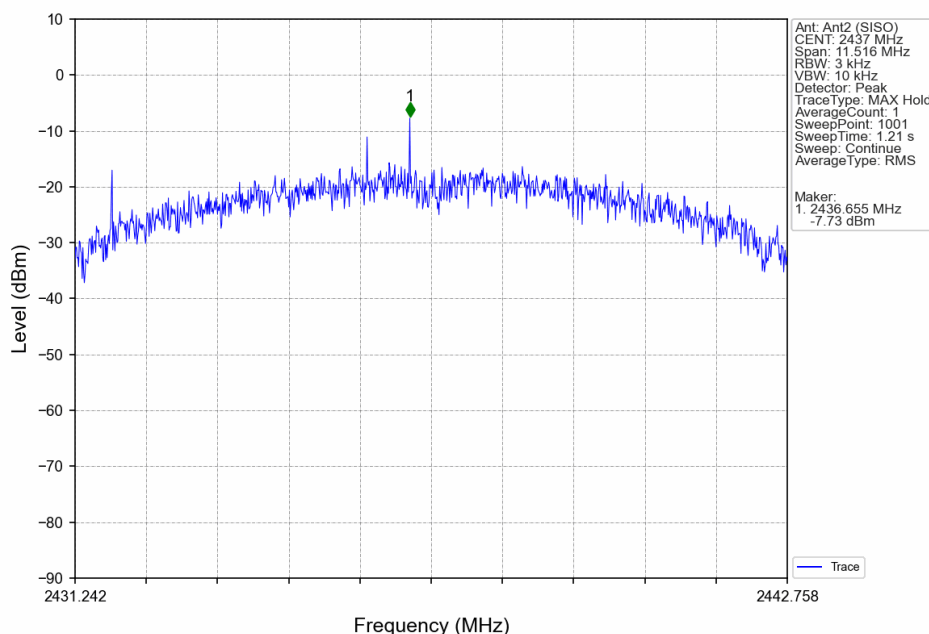
4.2.1 PSD



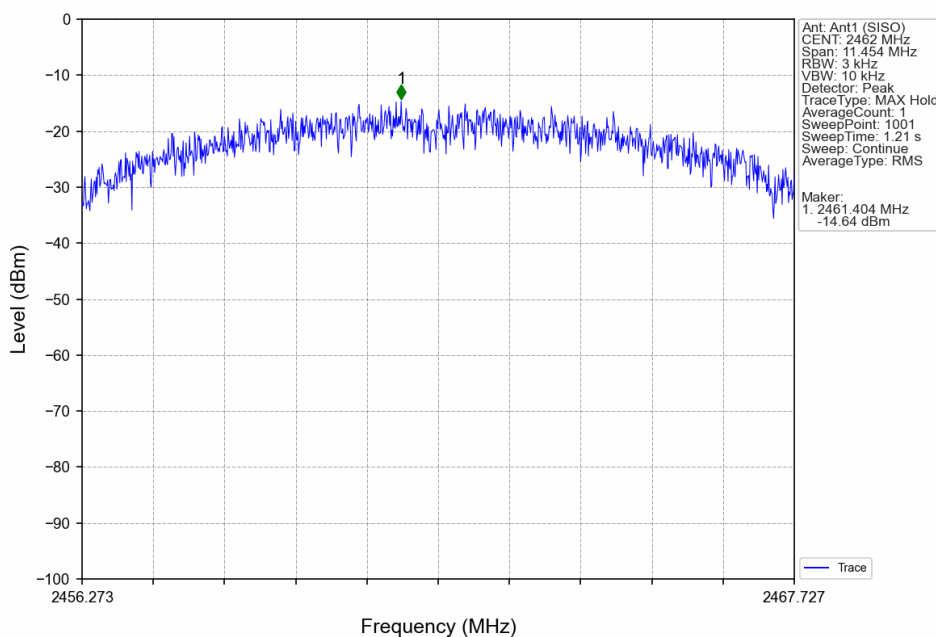
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



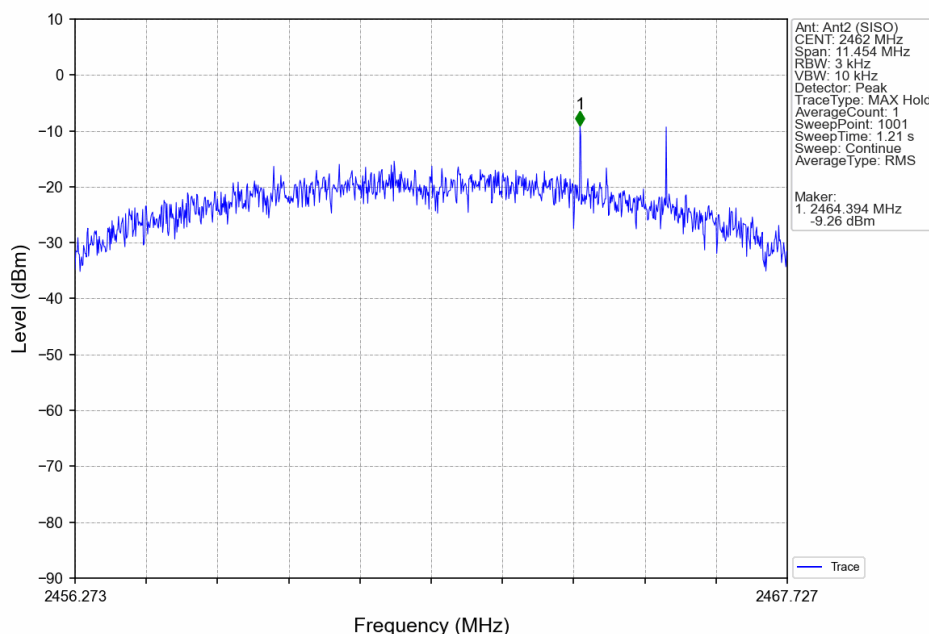
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



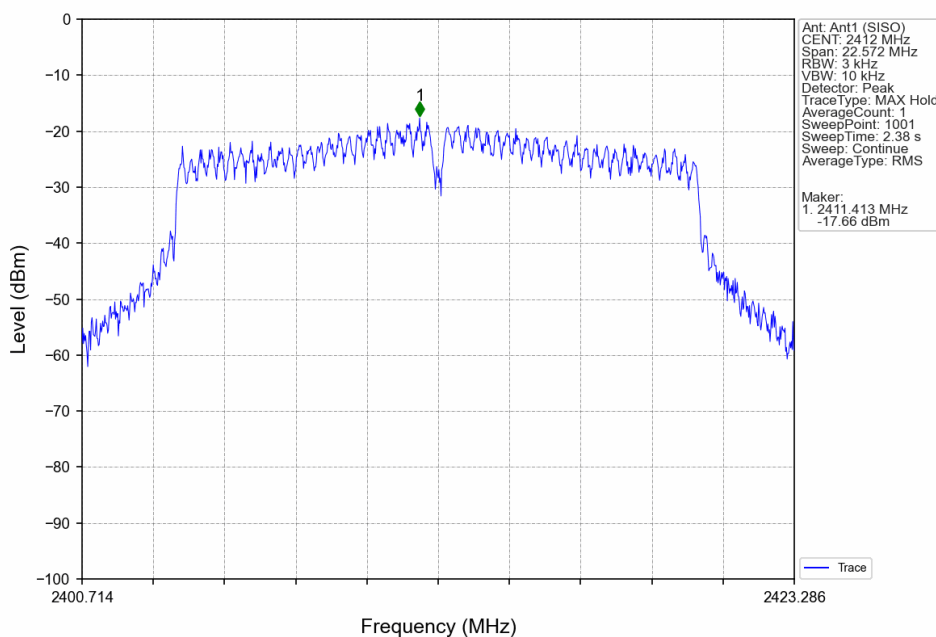
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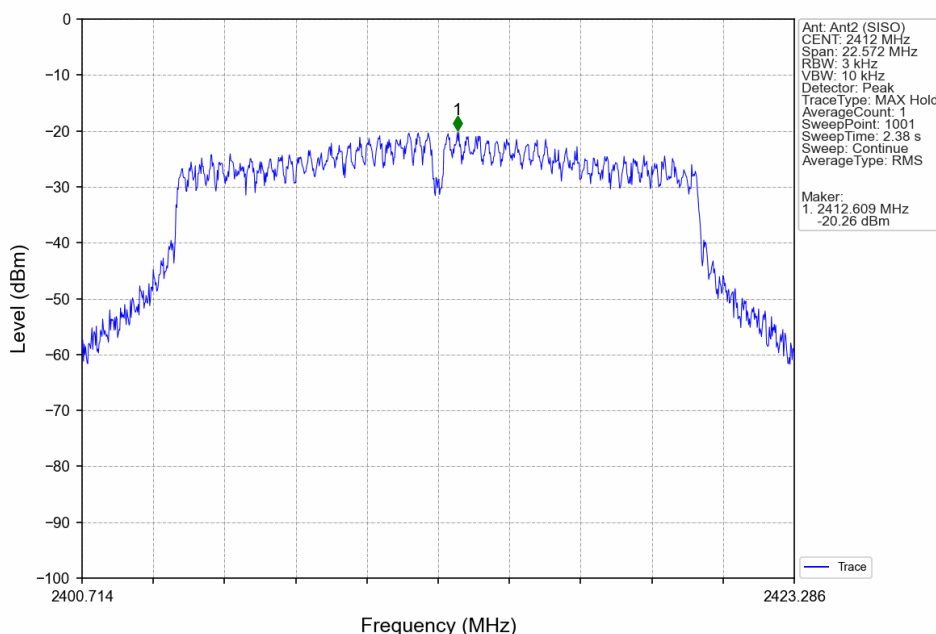
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



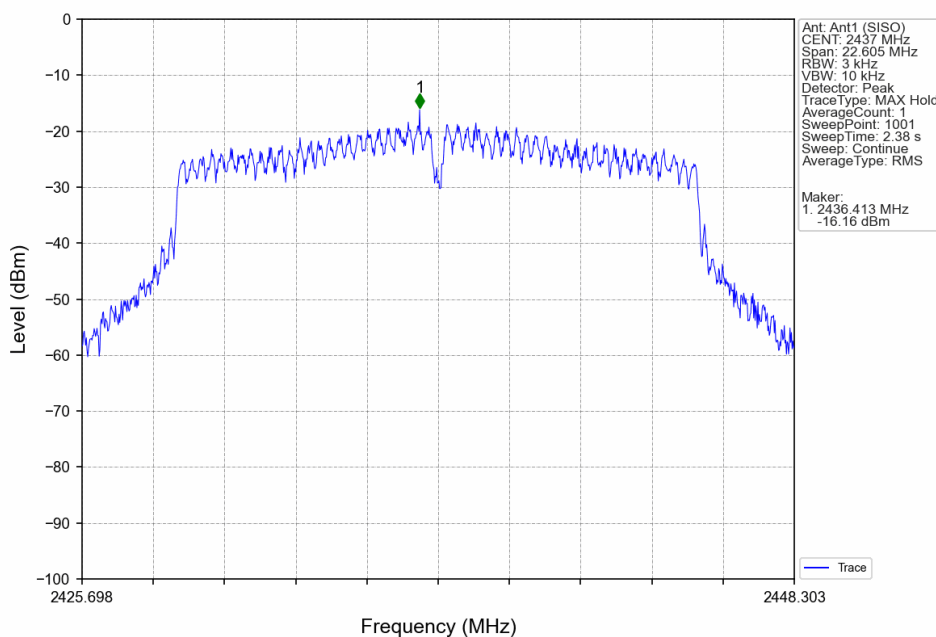
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



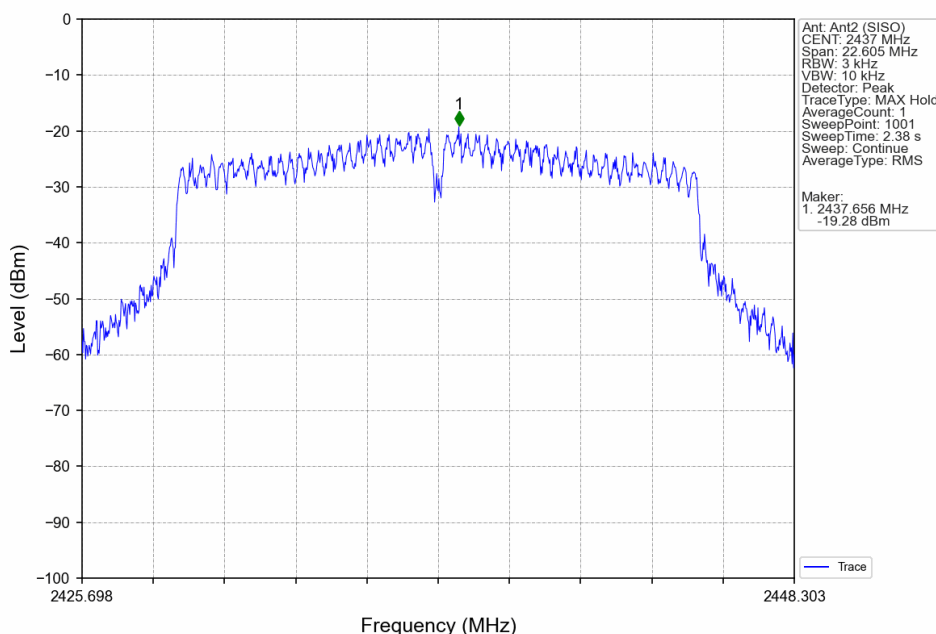
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



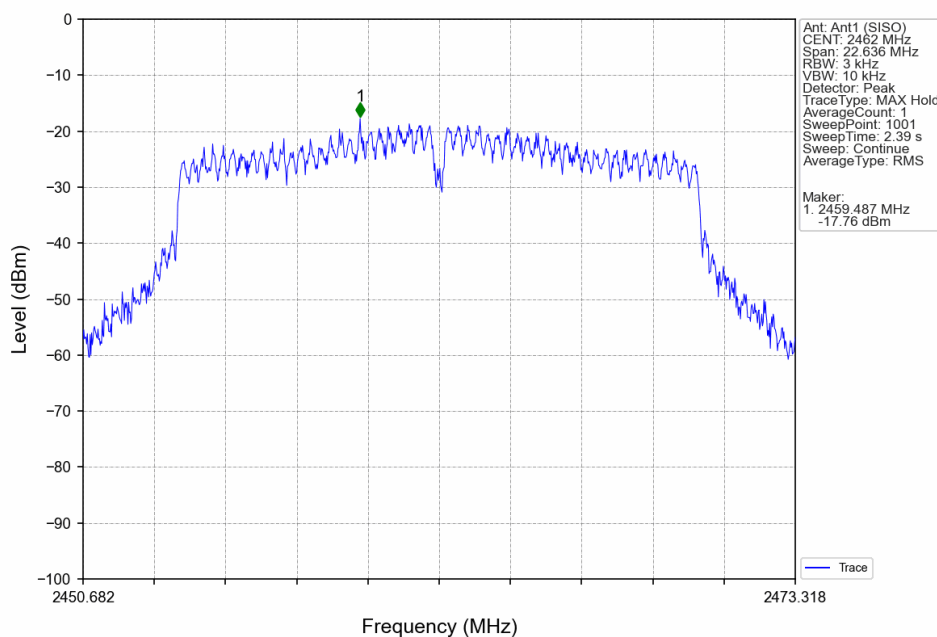
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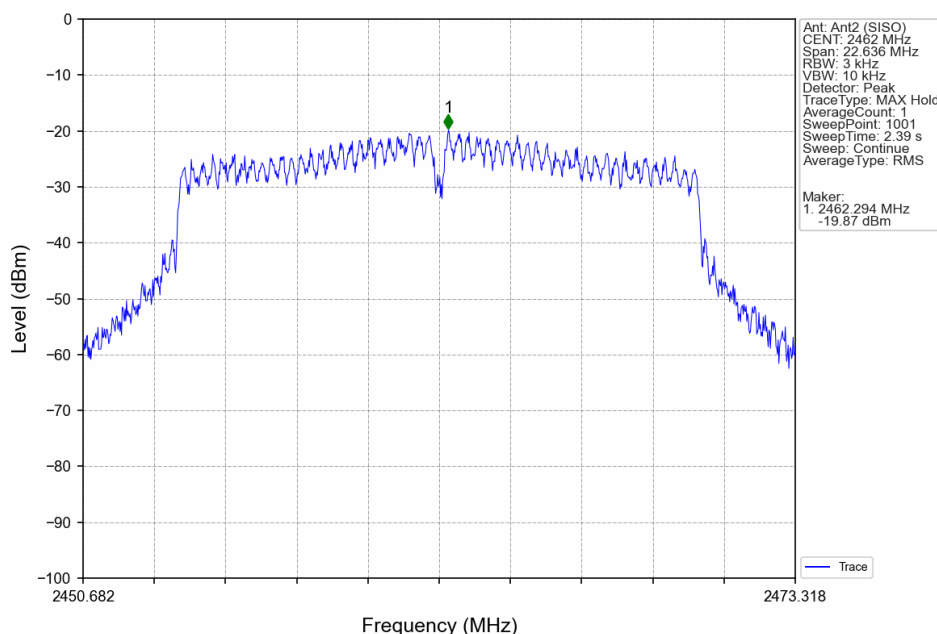
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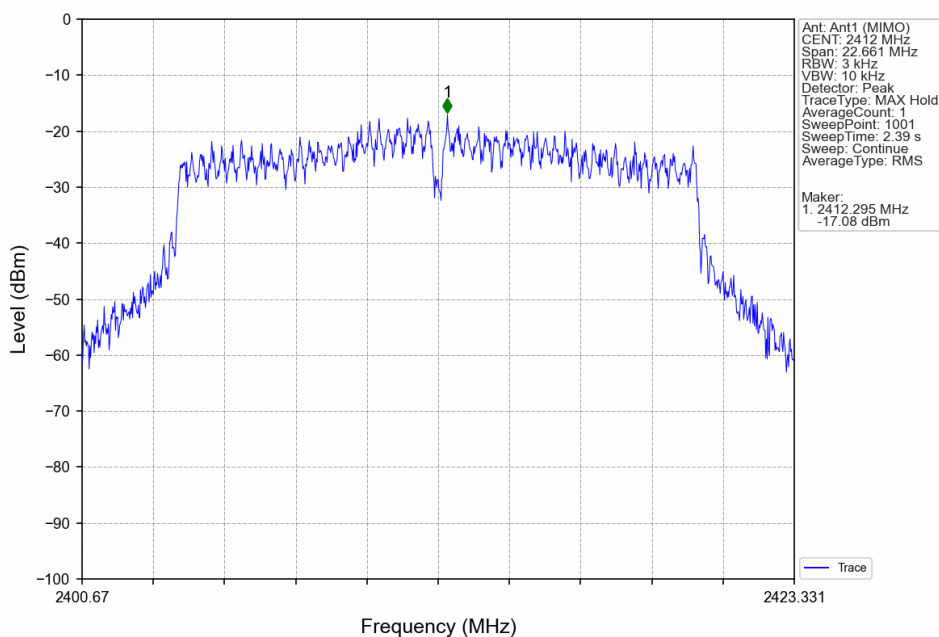
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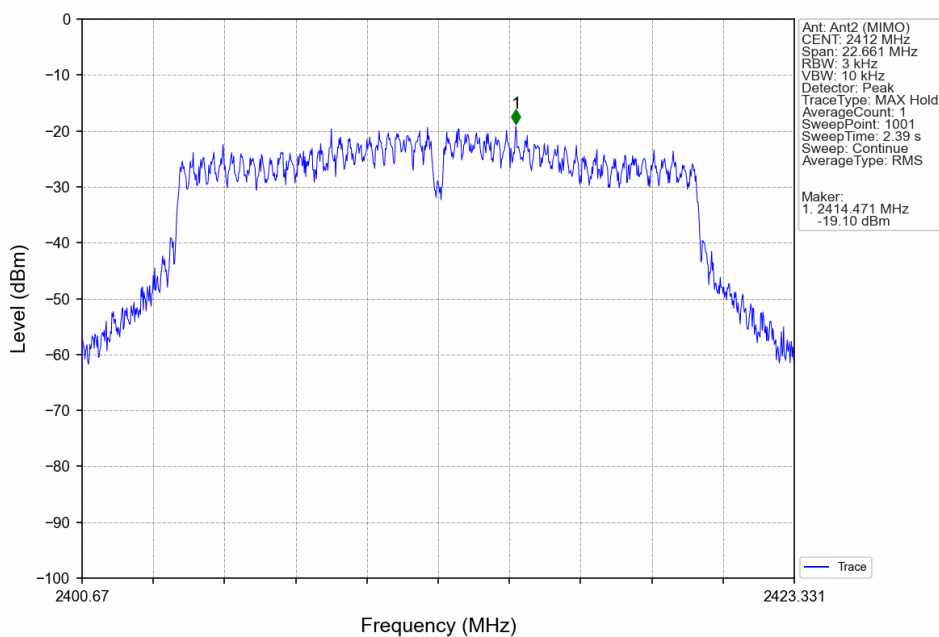
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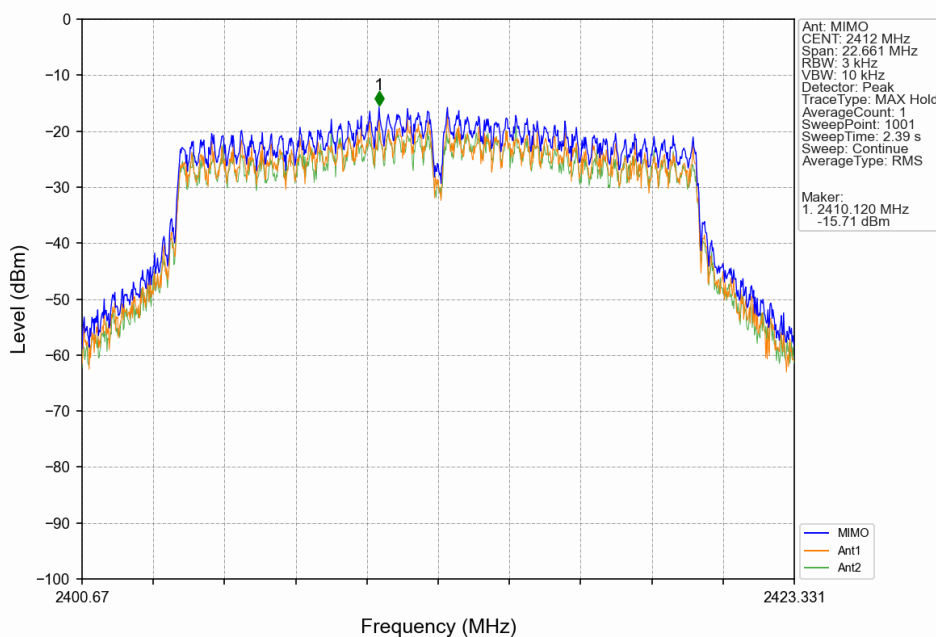
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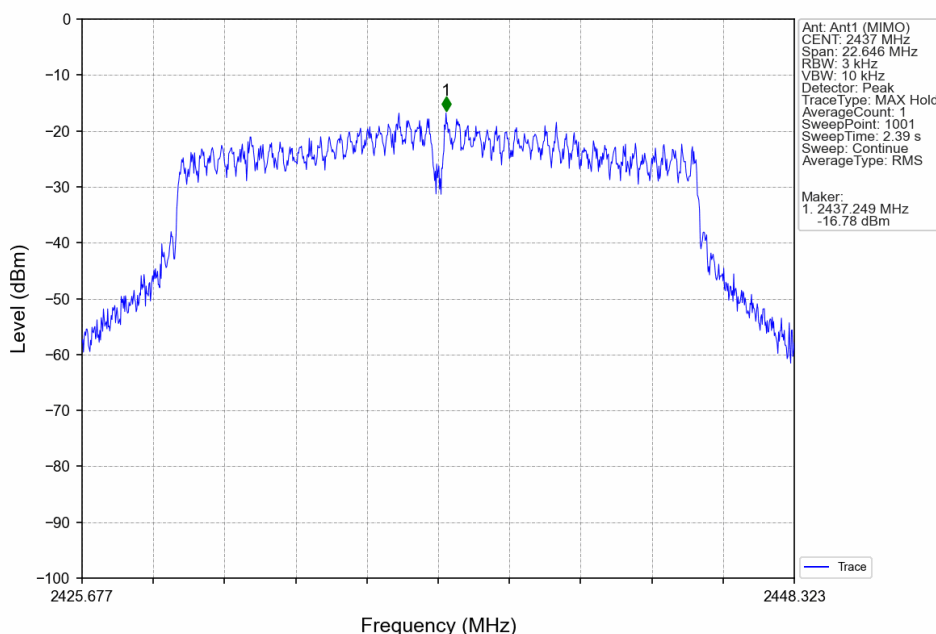
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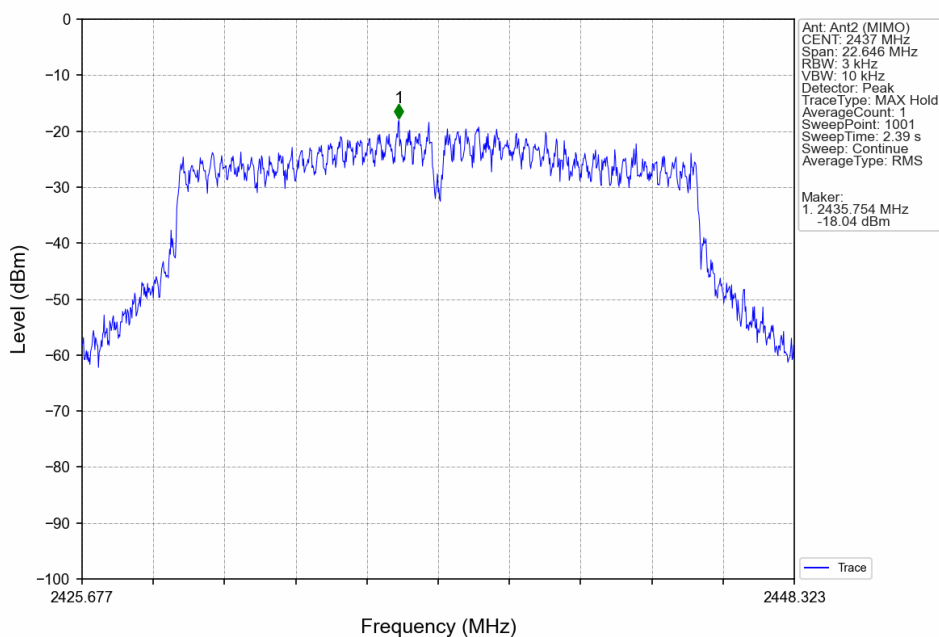
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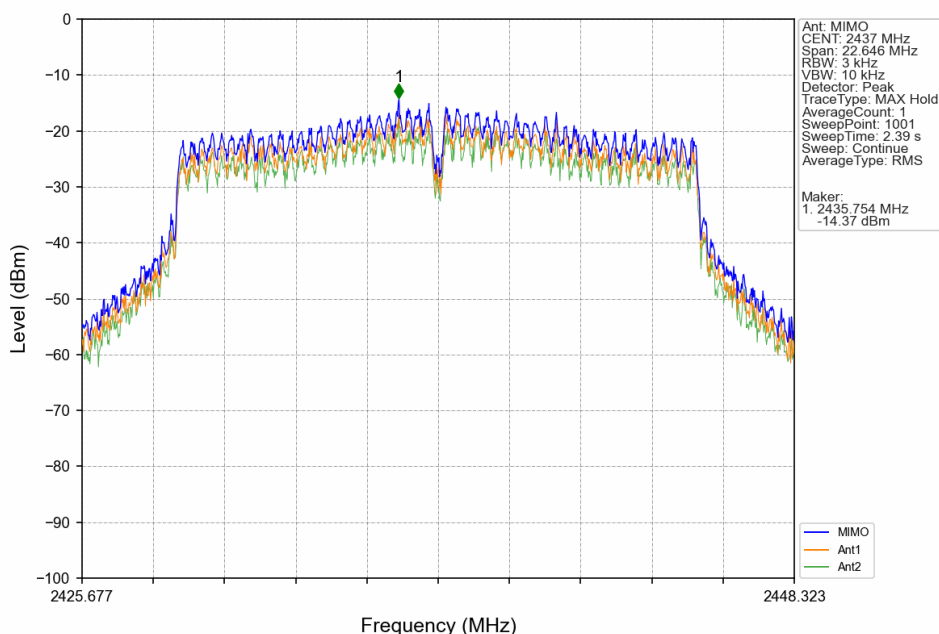
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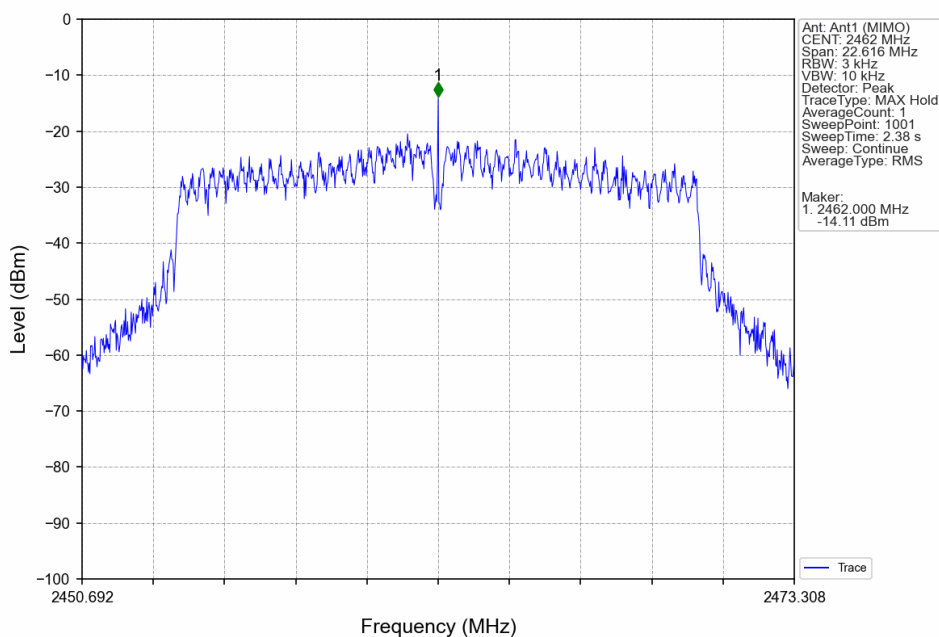
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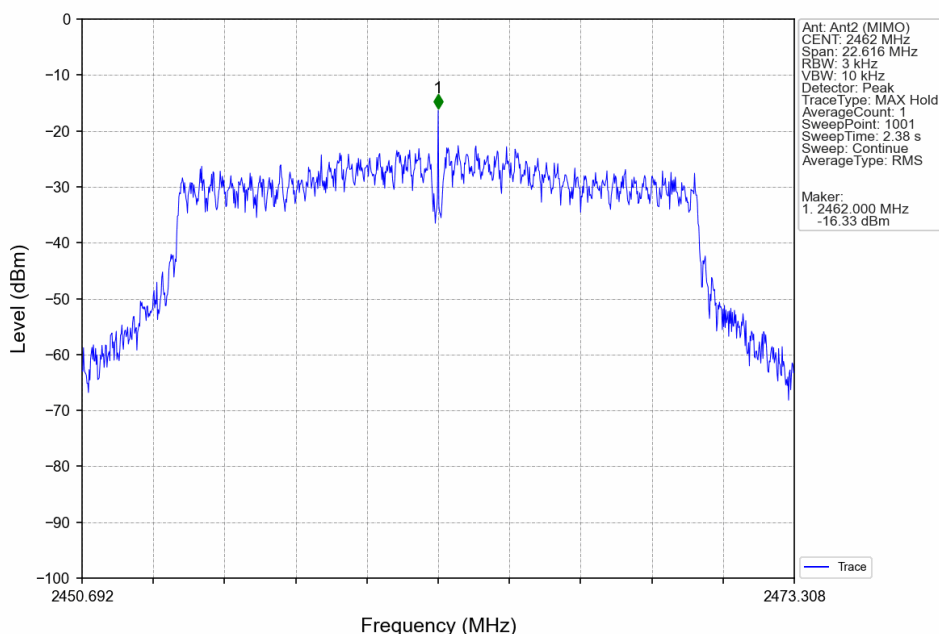
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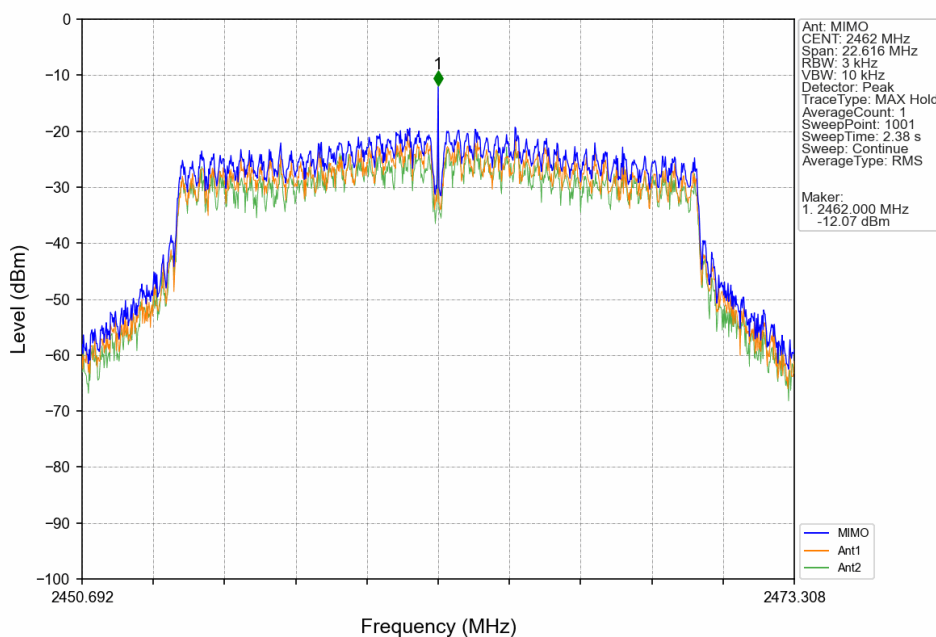
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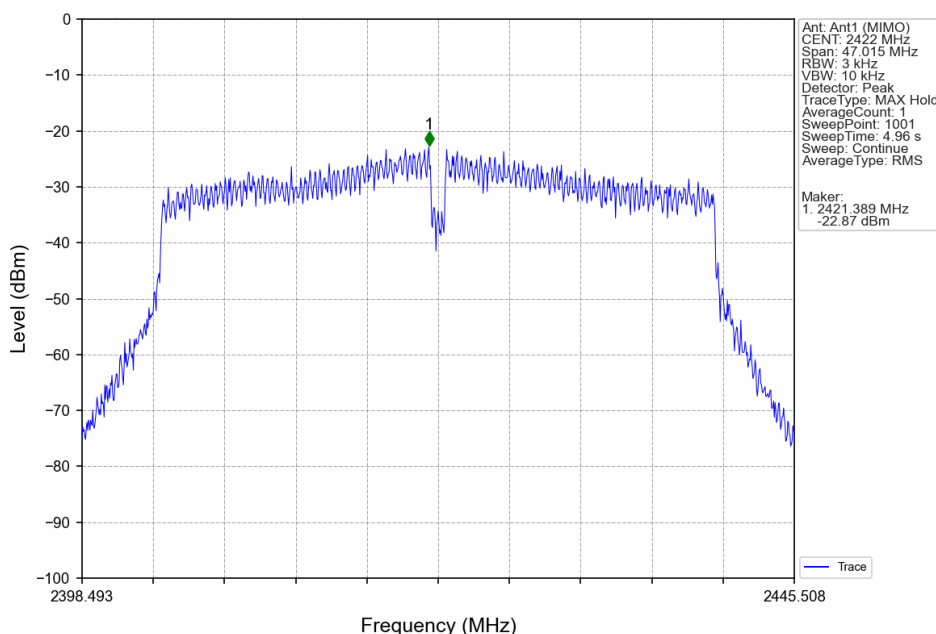
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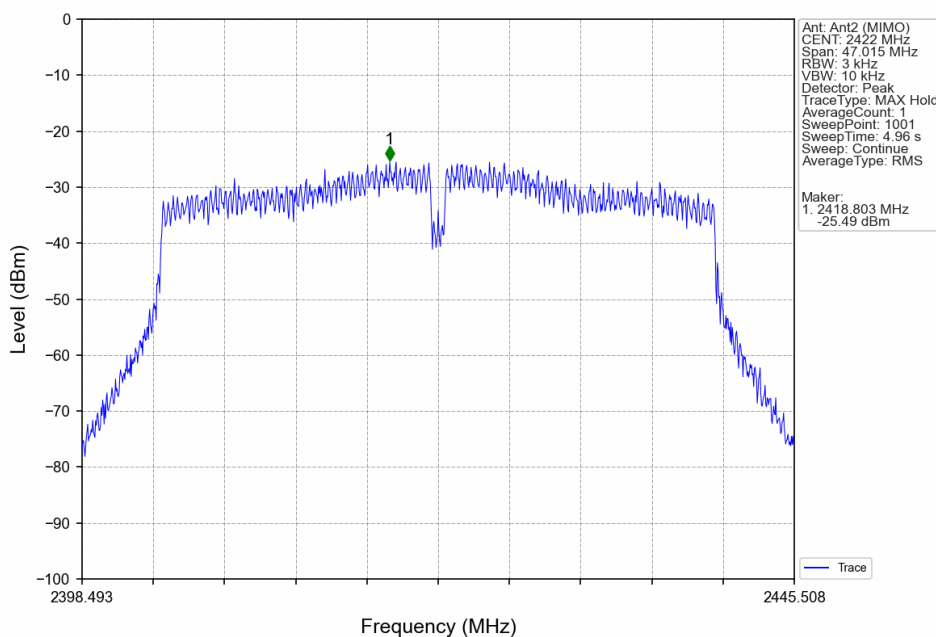
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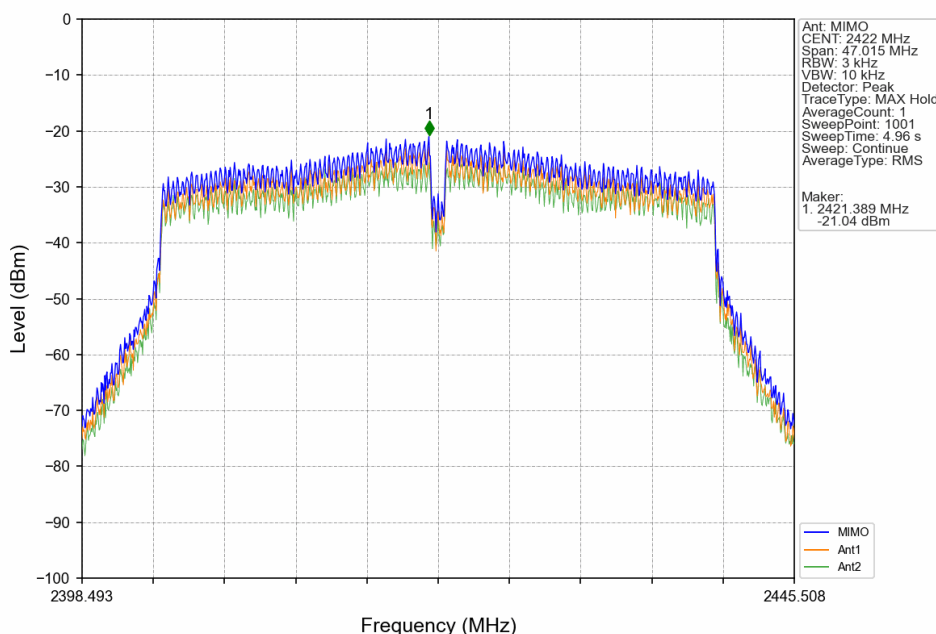
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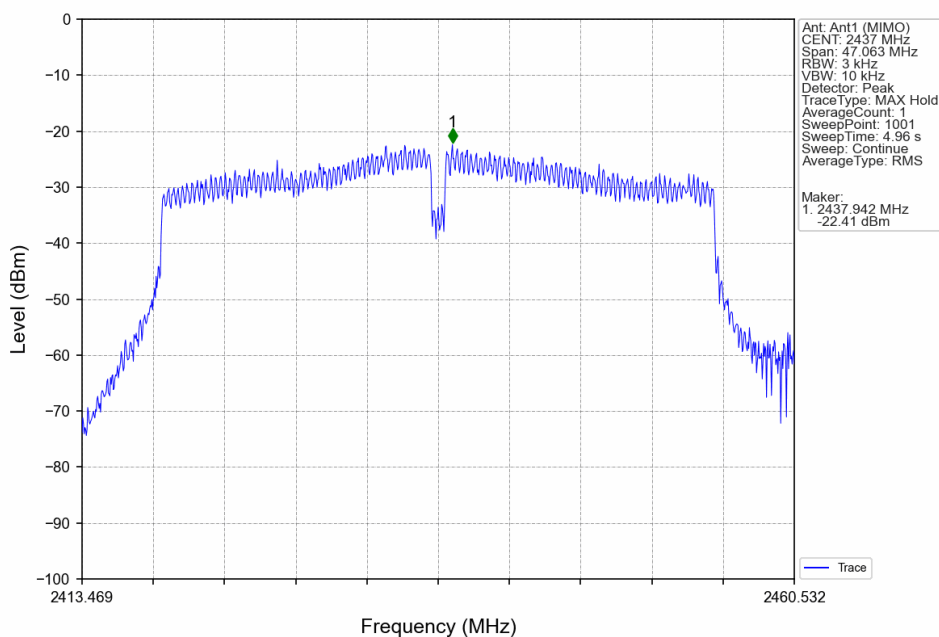
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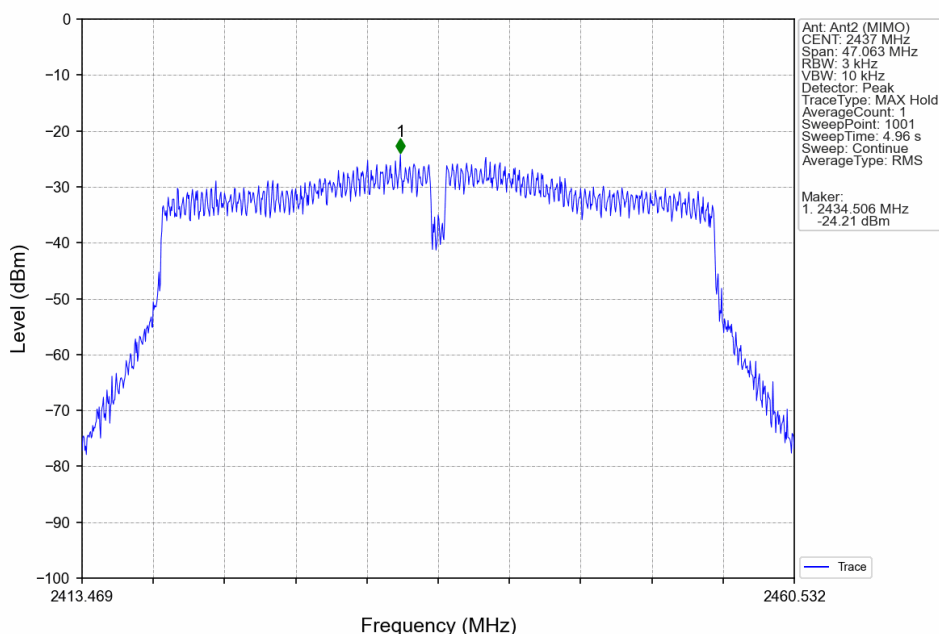
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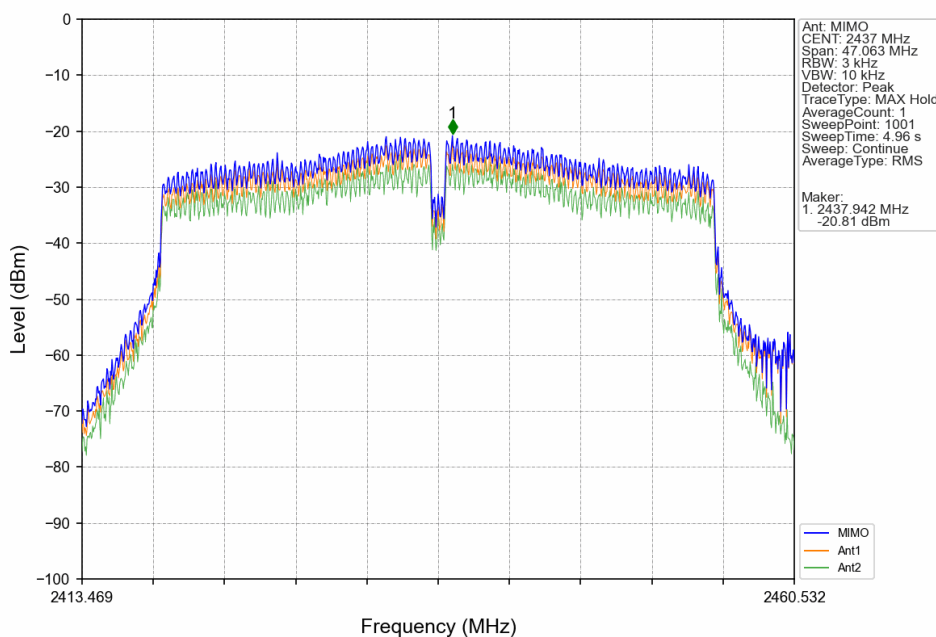
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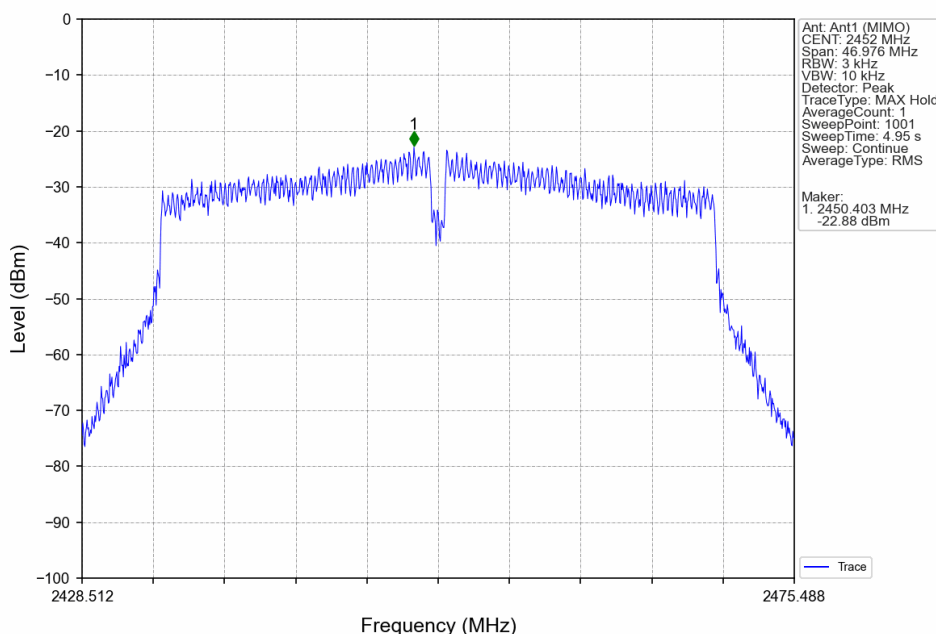
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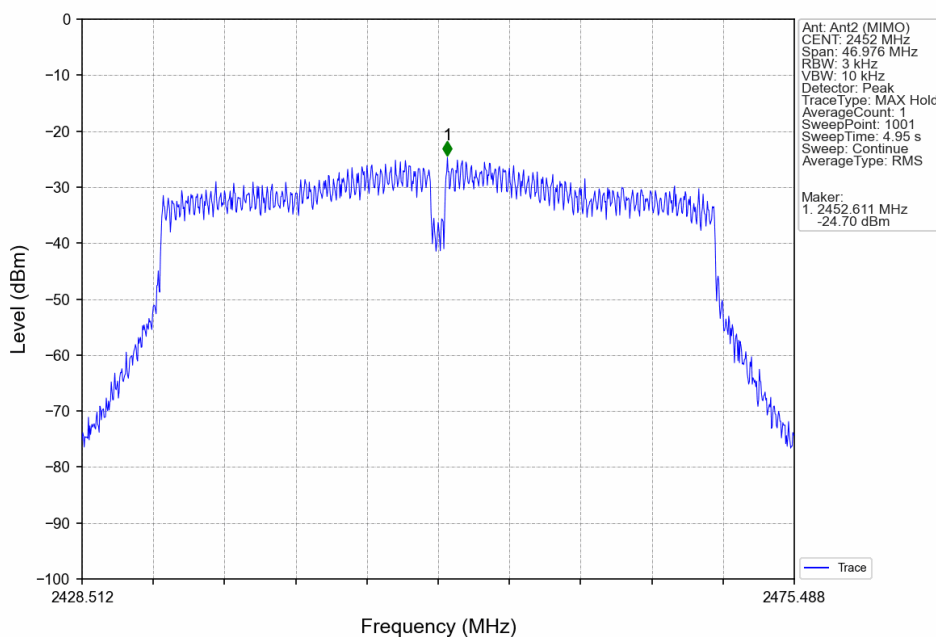
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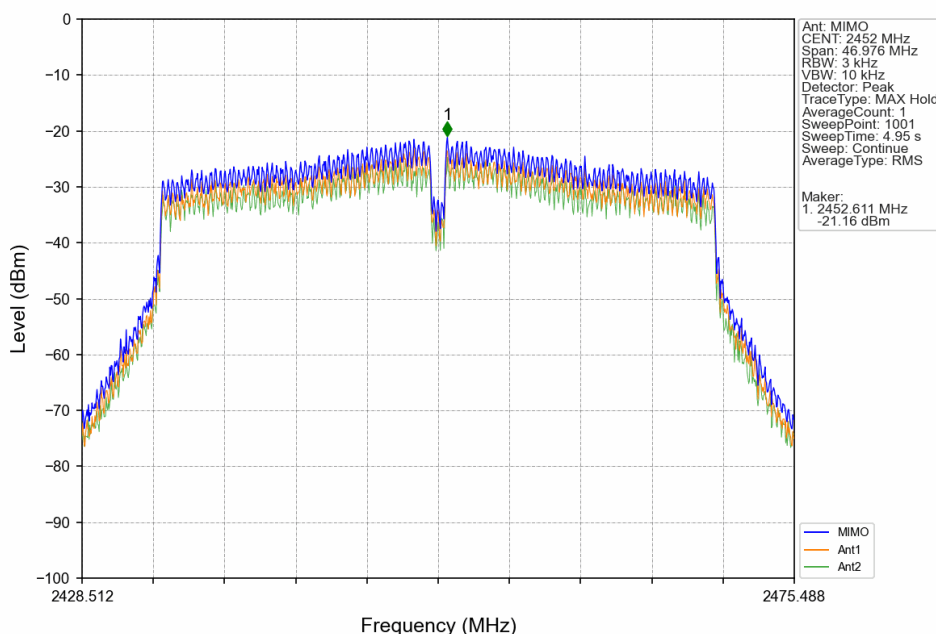
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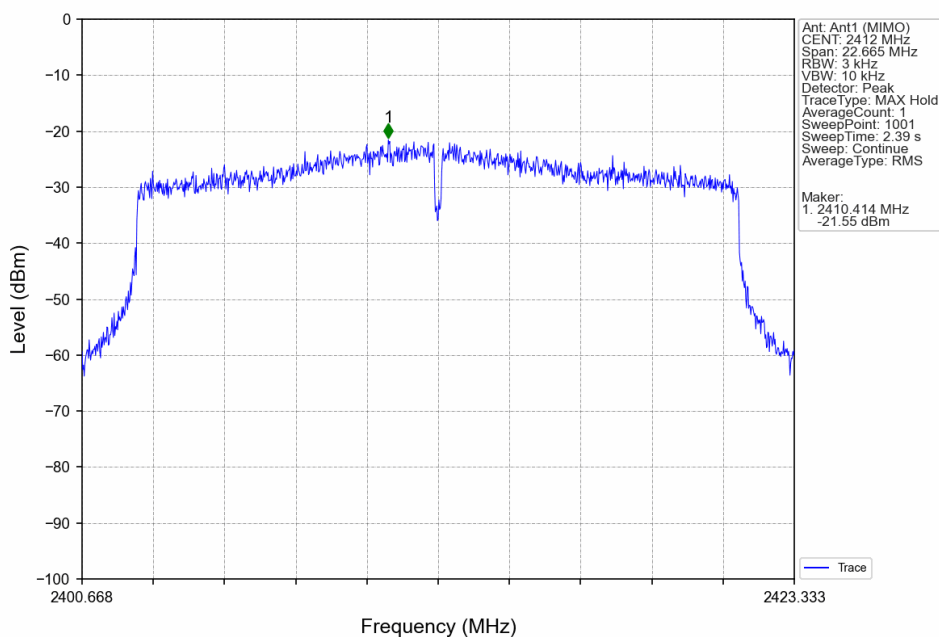
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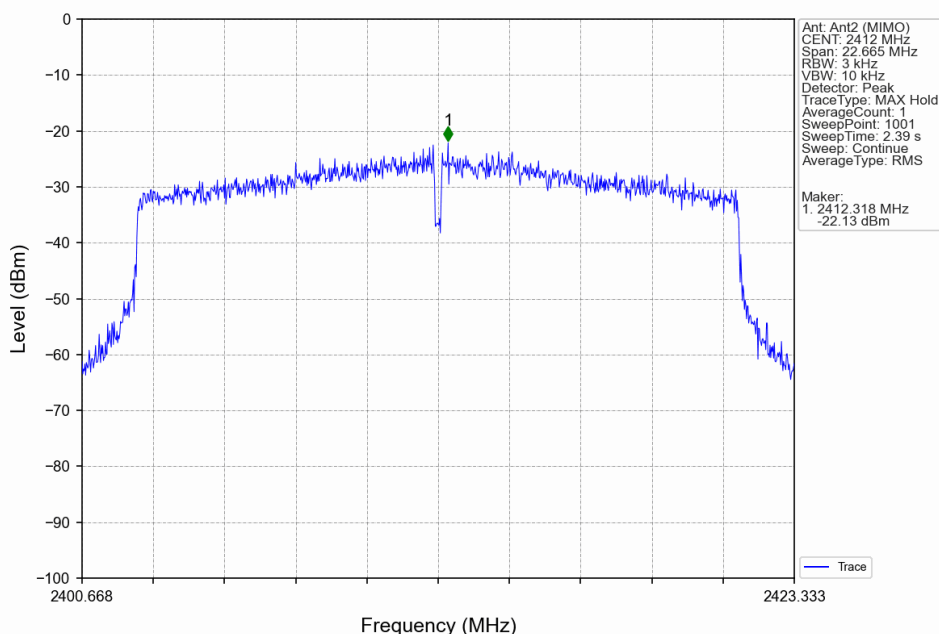
802.11n(HT40)_HCH_2452MHz_MIMO_NTNV



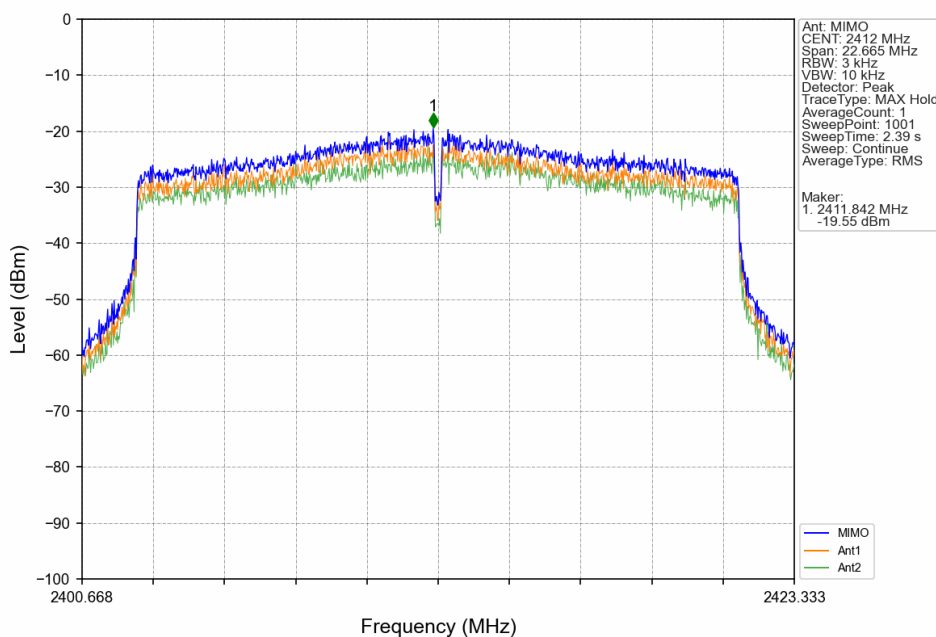
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



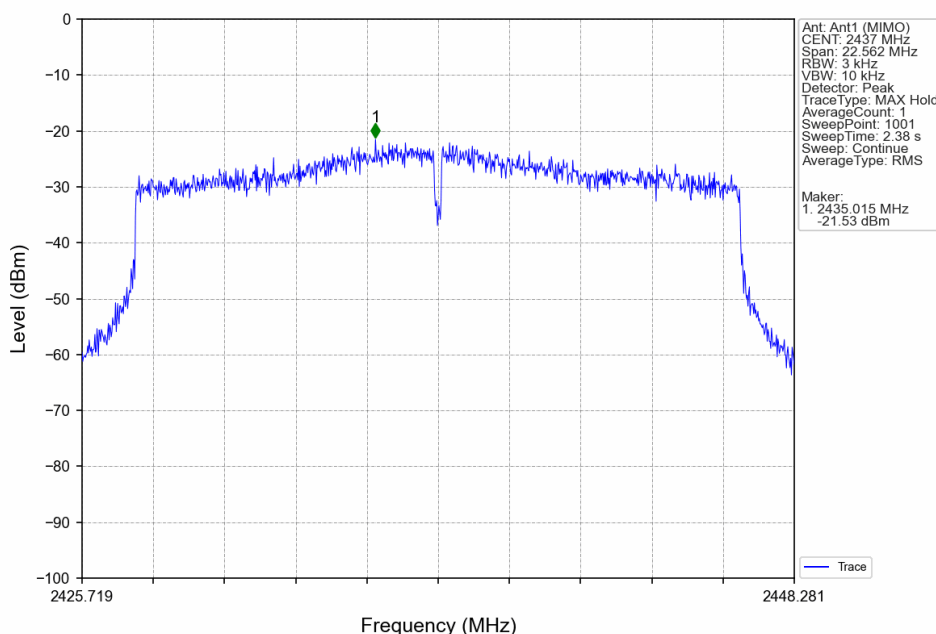
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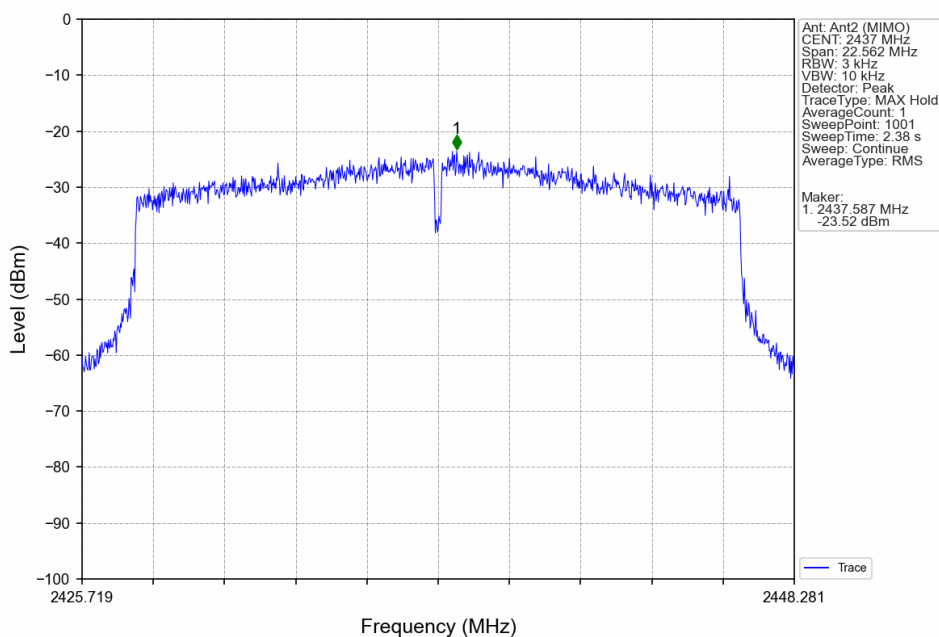
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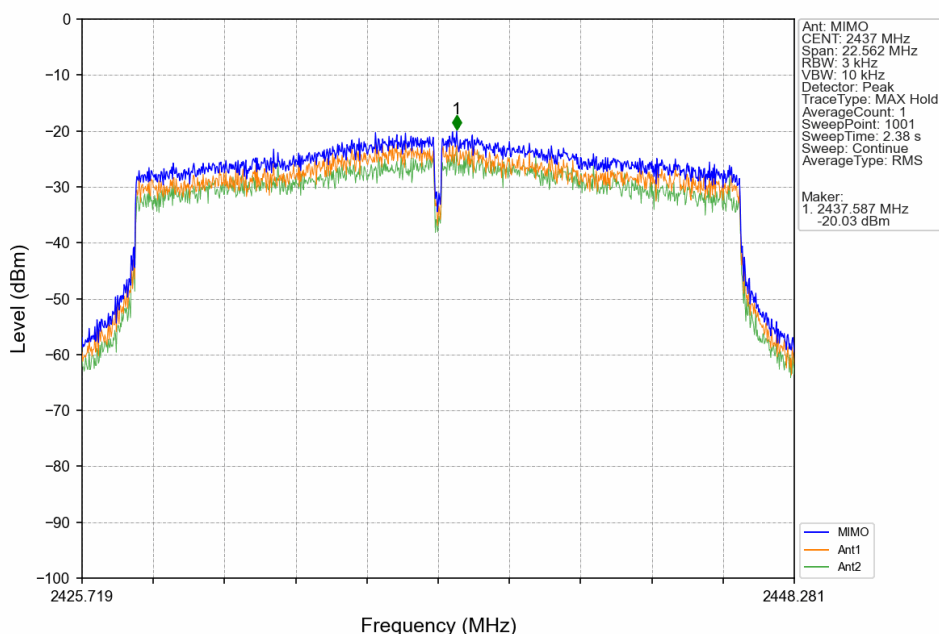
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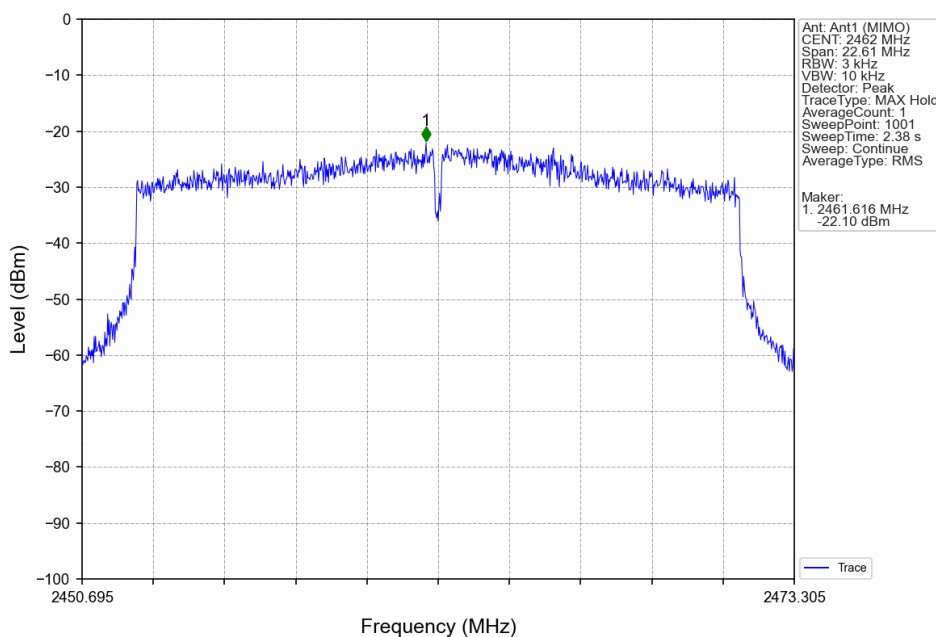
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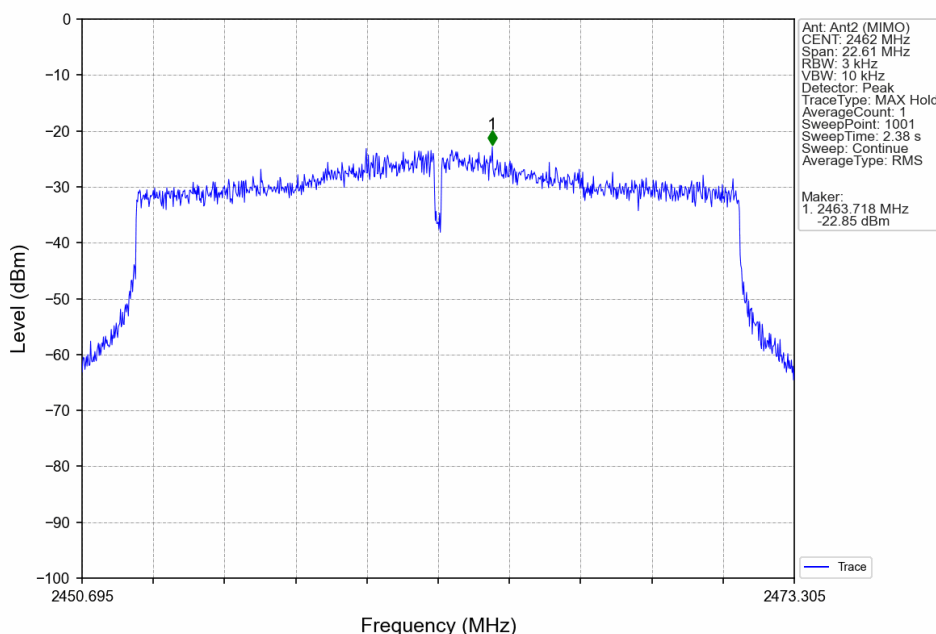
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_MIMO_NTNV



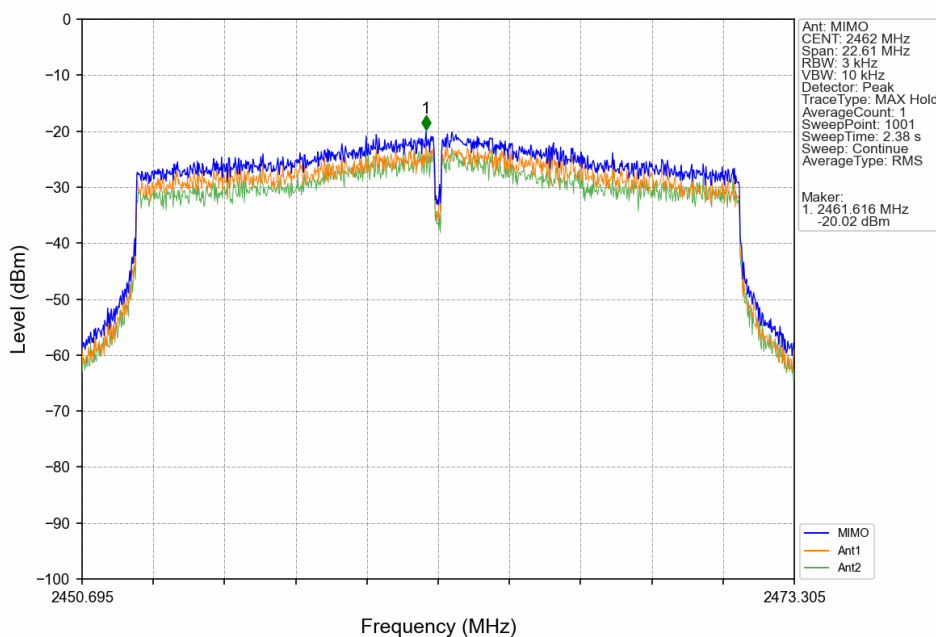
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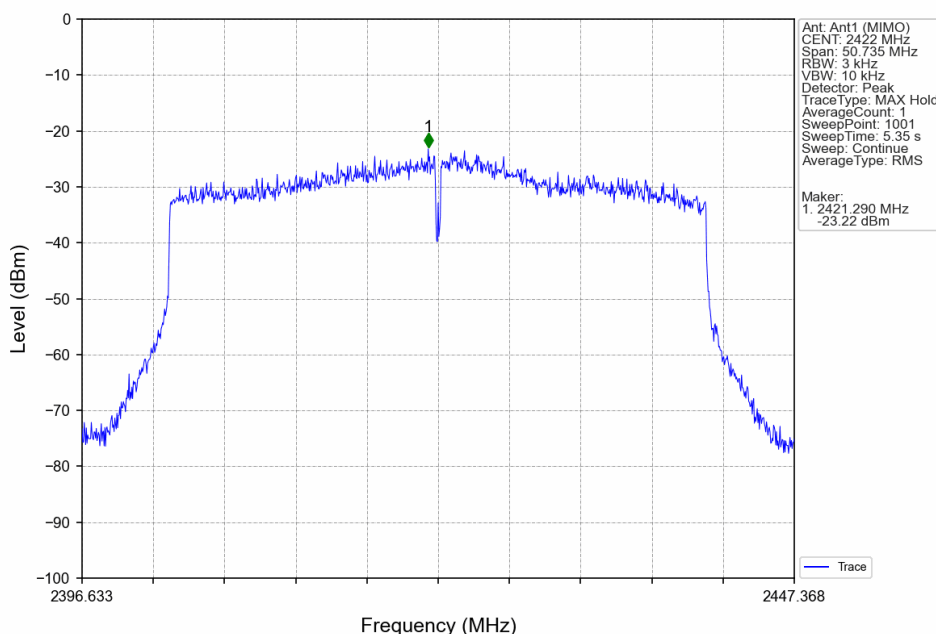
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant2 (MIMO)_NTNV



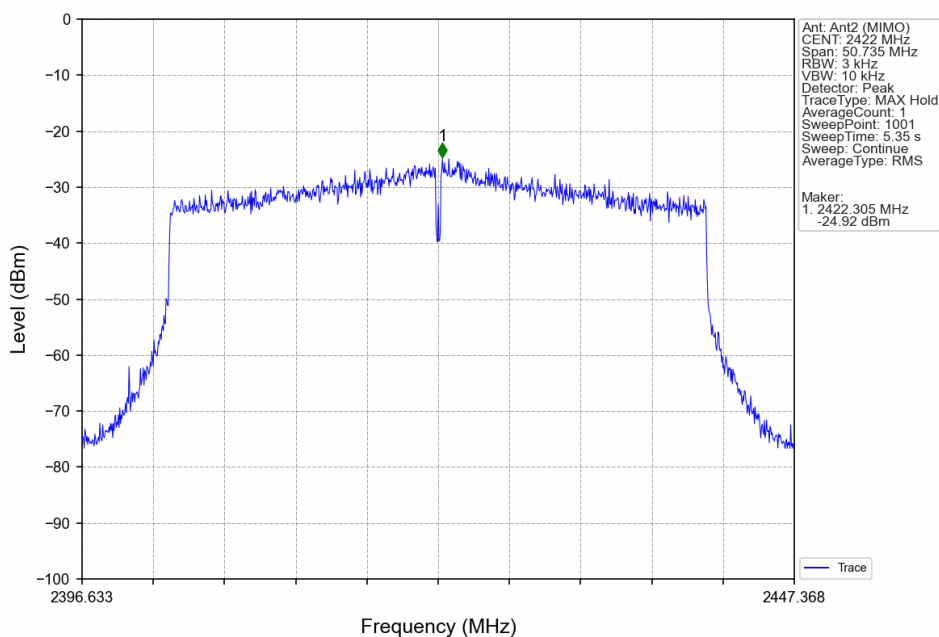
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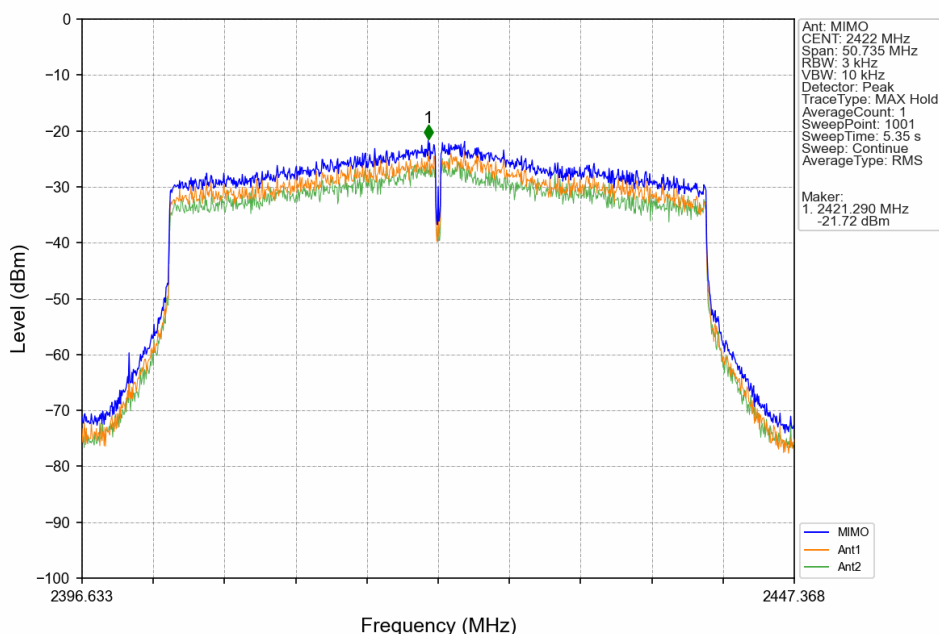
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



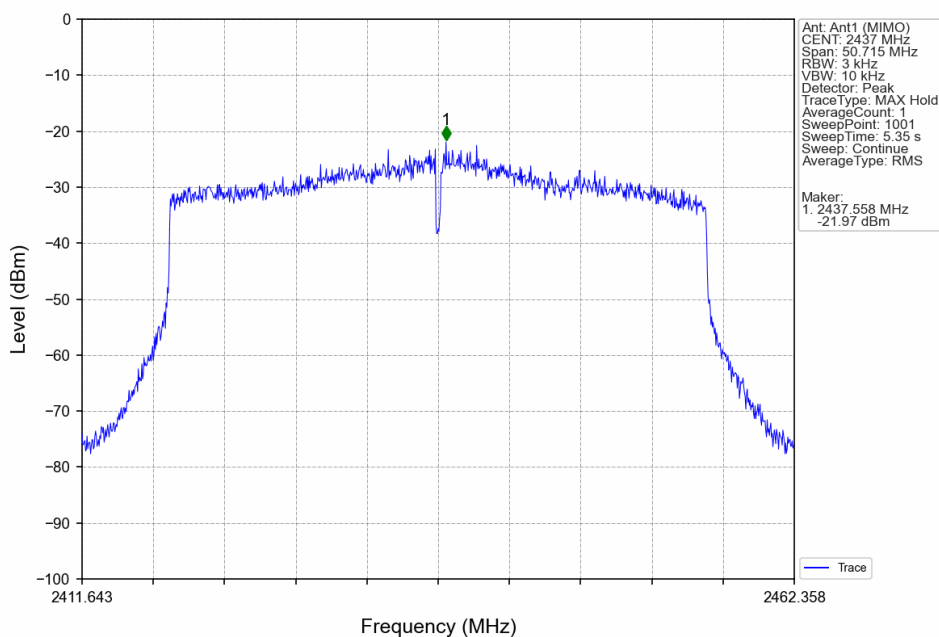
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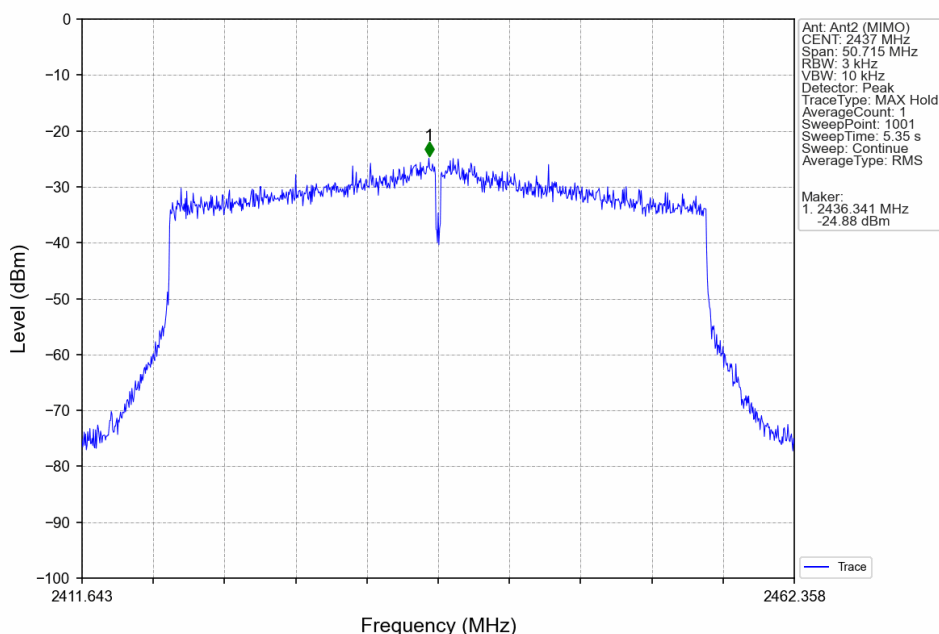
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802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant2 (MIMO)_NTNV



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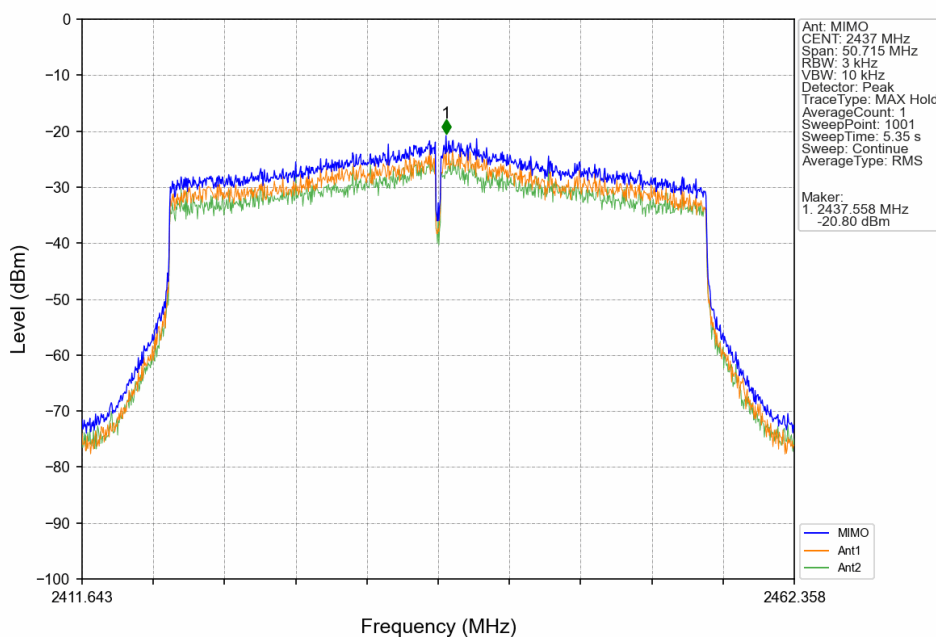
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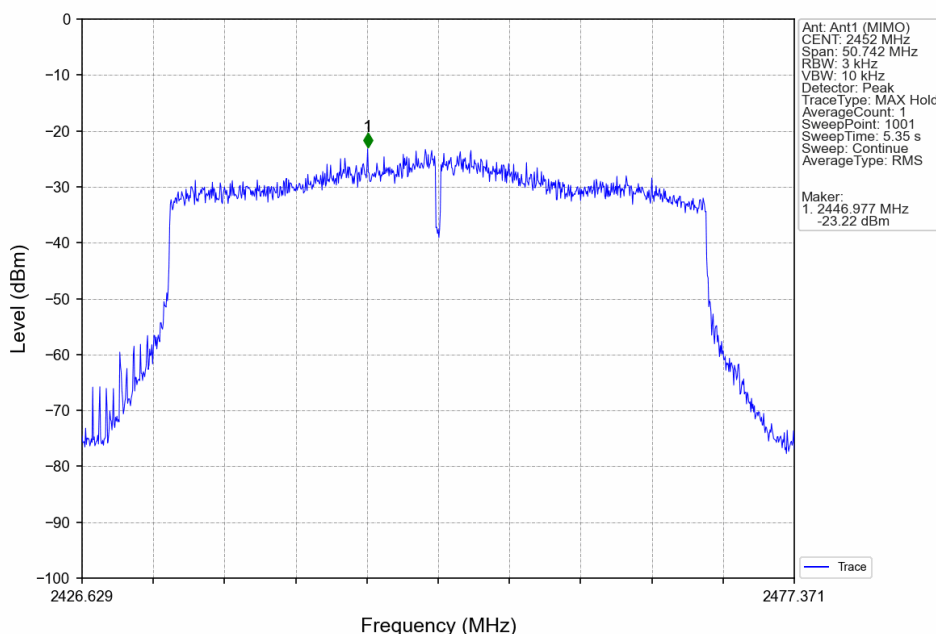
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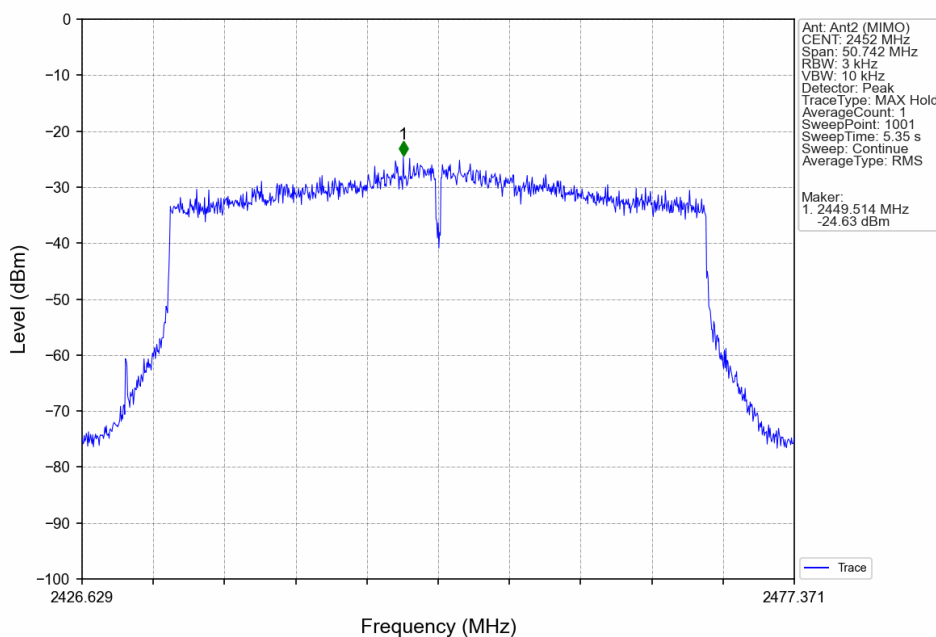
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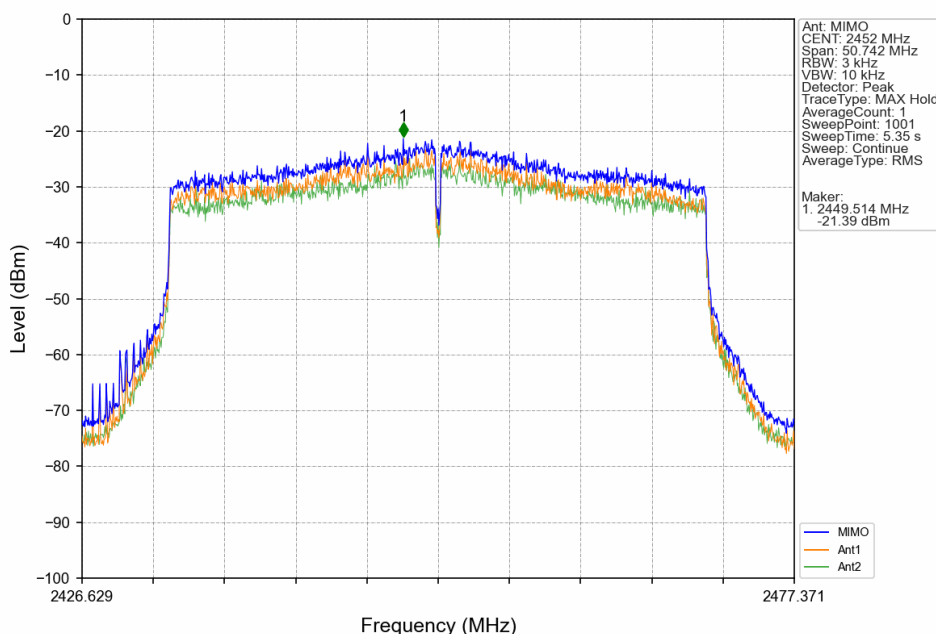
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802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant2 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_MIMO_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

| Mode | TX Type | Frequency (MHz) | RU | RU Pos | ANT | Level of Reference (dBm) |
|------------------|---------|-----------------|-------|--------|-----|--------------------------|
| 802.11b | SISO | 2412 | / | / | 1 | 3.31 |
| | | | | | 2 | 0.31 |
| | | 2437 | / | / | 1 | 1.73 |
| | | | | | 2 | 0.38 |
| | | 2462 | / | / | 1 | 1.15 |
| | | | | | 2 | 0.30 |
| 802.11g | SISO | 2412 | / | / | 1 | -0.40 |
| | | | | | 2 | -1.92 |
| | | 2437 | / | / | 1 | -0.29 |
| | | | | | 2 | -2.43 |
| | | 2462 | / | / | 1 | -1.05 |
| | | | | | 2 | -3.43 |
| 802.11n (HT20) | MIMO | 2412 | / | / | 1 | -0.48 |
| | | | | | 2 | -1.81 |
| | | 2437 | / | / | 1 | -0.26 |
| | | | | | 2 | -1.50 |
| | | 2462 | / | / | 1 | -3.34 |
| | | | | | 2 | -4.48 |
| 802.11n (HT40) | MIMO | 2422 | / | / | 1 | -8.67 |
| | | | | | 2 | -10.65 |
| | | 2437 | / | / | 1 | -8.74 |
| | | | | | 2 | -9.78 |
| | | 2452 | / | / | 1 | -8.91 |
| | | | | | 2 | -10.35 |
| 802.11ax (HEW20) | MIMO | 2412 | RU242 | Left | 1 | -4.06 |
| | | | | | 2 | -5.94 |
| | | 2437 | RU242 | Left | 1 | -5.11 |
| | | | | | 2 | -6.27 |
| | | 2462 | RU242 | Left | 1 | -6.49 |
| | | | | | 2 | -6.20 |

| Mode | TX Type | Frequency (MHz) | RU | RU Pos | ANT | Level of Reference (dBm) |
|------------------|---------|-----------------|-------|--------|-----|--------------------------|
| 802.11ax (HEW40) | MIMO | 2422 | RU484 | Left | 1 | -8.59 |
| | | | | | 2 | -10.82 |
| | | 2437 | RU484 | Left | 1 | -7.93 |
| | | | | | 2 | -9.66 |
| | | 2452 | RU484 | Left | 1 | -8.09 |
| | | | | | 2 | -9.92 |

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.



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5.1.2 CSE and Band Edges

| Mode | TX Type | Frequency (MHz) | RU | RU Pos | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------------------|---------|-----------------|-------|--------|-----|--------------------------|-------------|---------|
| 802.11b | SISO | 2412 | / | / | 1 | 3.31 | -16.69 | Pass |
| | | | | | 2 | 0.38 | -19.62 | Pass |
| | | 2437 | / | / | 1 | 3.31 | -16.69 | Pass |
| | | | | | 2 | 0.38 | -19.62 | Pass |
| | | 2462 | / | / | 1 | 3.31 | -16.69 | Pass |
| | | | | | 2 | 0.38 | -19.62 | Pass |
| 802.11g | SISO | 2412 | / | / | 1 | -0.29 | -20.29 | Pass |
| | | | | | 2 | -1.92 | -21.92 | Pass |
| | | 2437 | / | / | 1 | -0.29 | -20.29 | Pass |
| | | | | | 2 | -1.92 | -21.92 | Pass |
| | | 2462 | / | / | 1 | -0.29 | -20.29 | Pass |
| | | | | | 2 | -1.92 | -21.92 | Pass |
| 802.11n (HT20) | MIMO | 2412 | / | / | 1 | -0.26 | -20.26 | Pass |
| | | | | | 2 | -1.50 | -21.50 | Pass |
| | | 2437 | / | / | 1 | -0.26 | -20.26 | Pass |
| | | | | | 2 | -1.50 | -21.50 | Pass |
| | | 2462 | / | / | 1 | -0.26 | -20.26 | Pass |
| | | | | | 2 | -1.50 | -21.50 | Pass |
| 802.11n (HT40) | MIMO | 2422 | / | / | 1 | -8.67 | -28.67 | Pass |
| | | | | | 2 | -9.78 | -29.78 | Pass |
| | | 2437 | / | / | 1 | -8.67 | -28.67 | Pass |
| | | | | | 2 | -9.78 | -29.78 | Pass |
| | | 2452 | / | / | 1 | -8.67 | -28.67 | Pass |
| | | | | | 2 | -9.78 | -29.78 | Pass |
| 802.11ax (HEW20) | MIMO | 2412 | RU242 | Left | 1 | -4.06 | -24.06 | Pass |
| | | | | | 2 | -5.94 | -25.94 | Pass |
| | | 2437 | RU242 | Left | 1 | -4.06 | -24.06 | Pass |
| | | | | | 2 | -5.94 | -25.94 | Pass |
| | | 2462 | RU242 | Left | 1 | -4.06 | -24.06 | Pass |
| | | | | | 2 | -5.94 | -25.94 | Pass |
| 802.11ax (HEW40) | MIMO | 2422 | RU484 | Left | 1 | -7.93 | -27.93 | Pass |
| | | | | | 2 | -9.66 | -29.66 | Pass |
| | | 2437 | RU484 | Left | 1 | -7.93 | -27.93 | Pass |
| | | | | | 2 | -9.66 | -29.66 | Pass |
| | | 2452 | RU484 | Left | 1 | -7.93 | -27.93 | Pass |
| | | | | | 2 | -9.66 | -29.66 | 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.

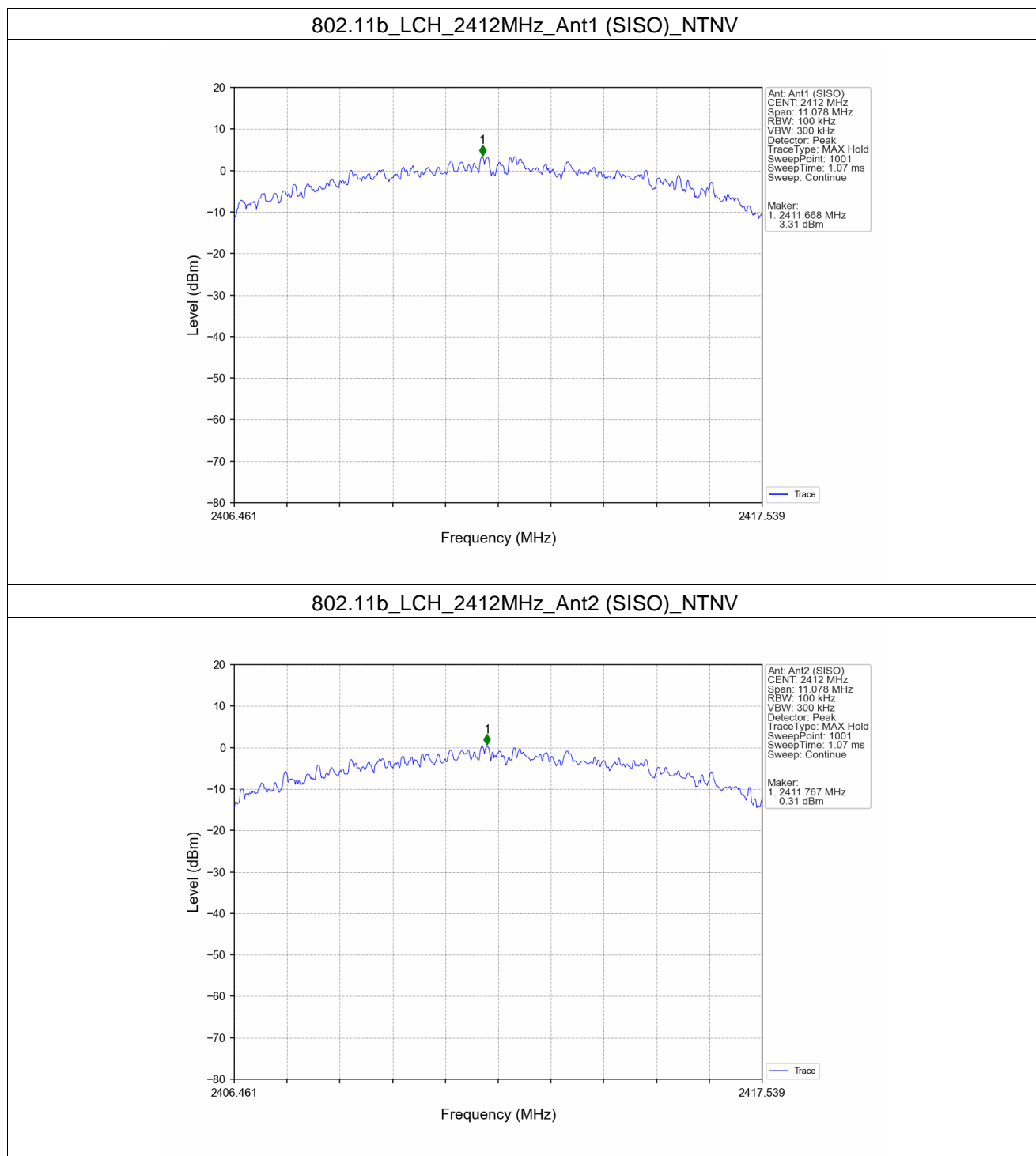


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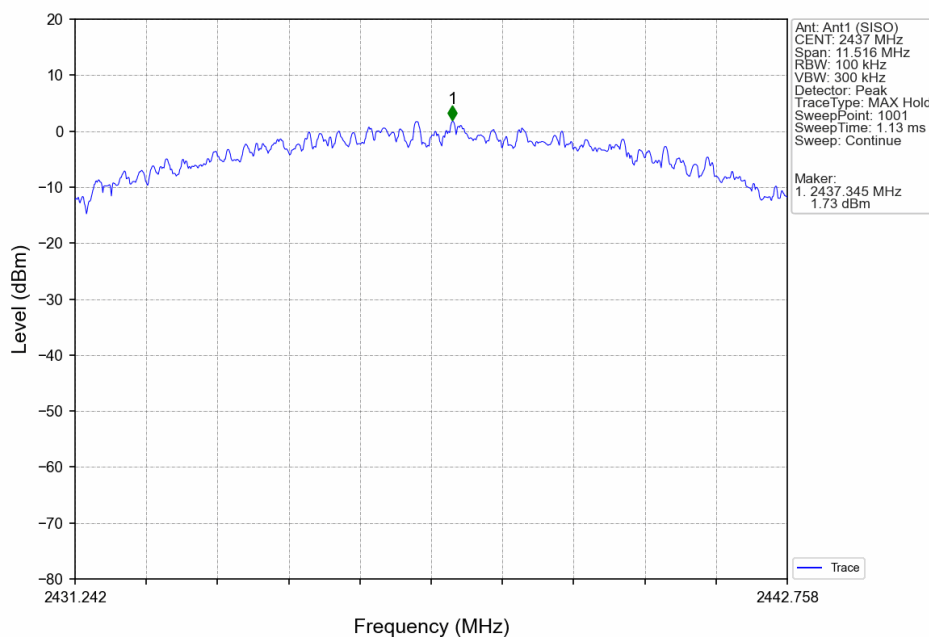
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5.2 Test Graph

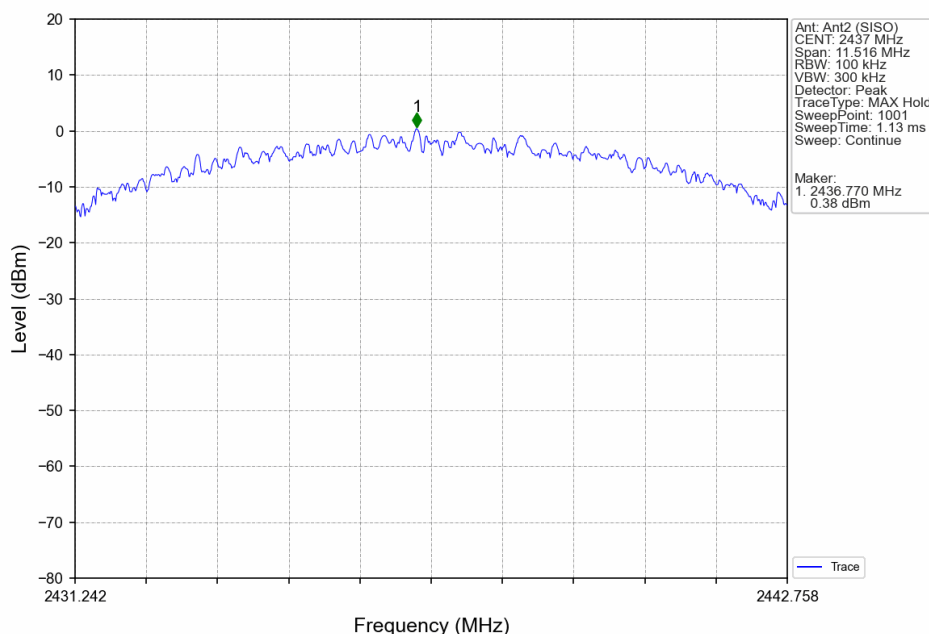
5.2.1 Ref



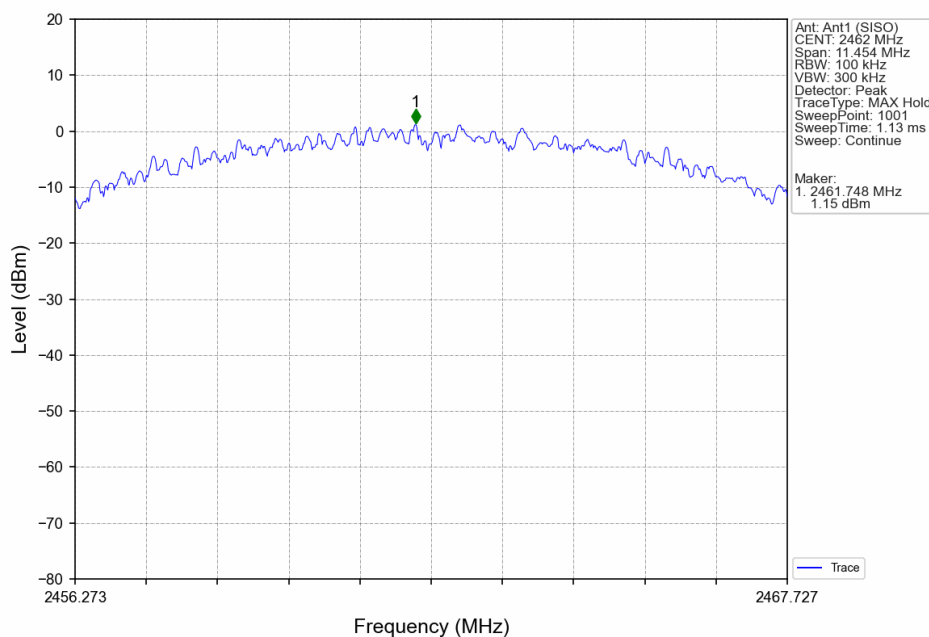
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



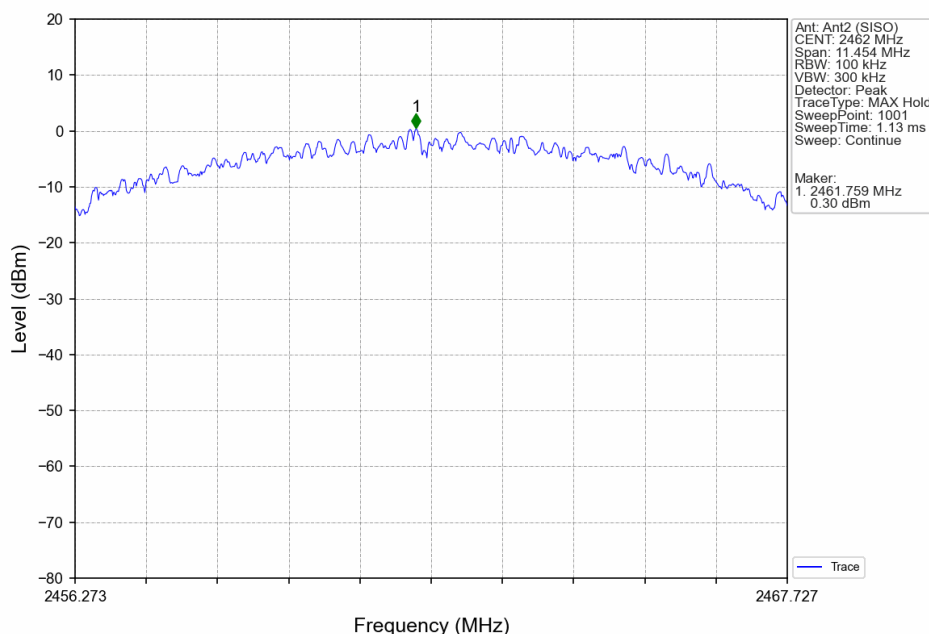
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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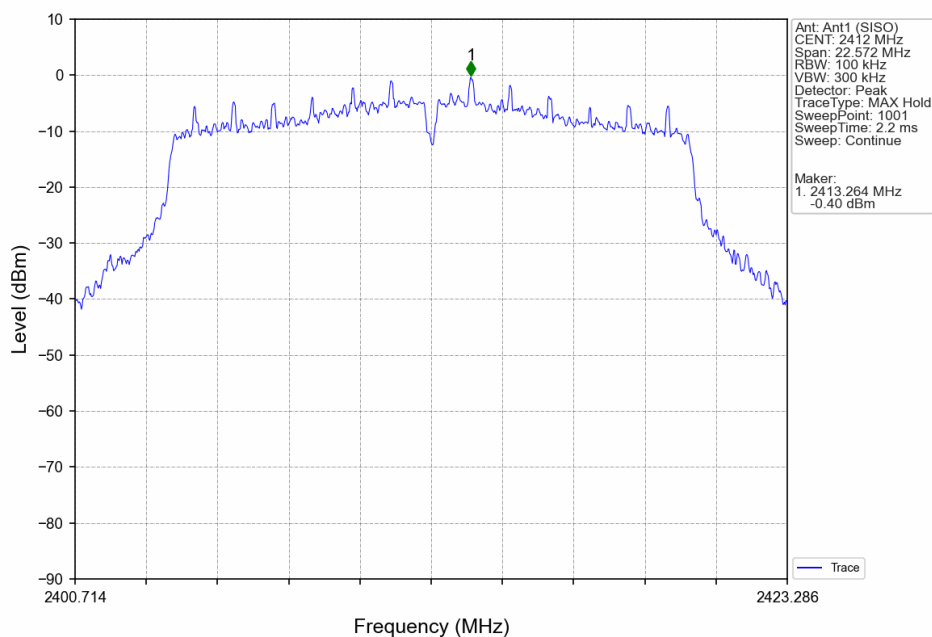
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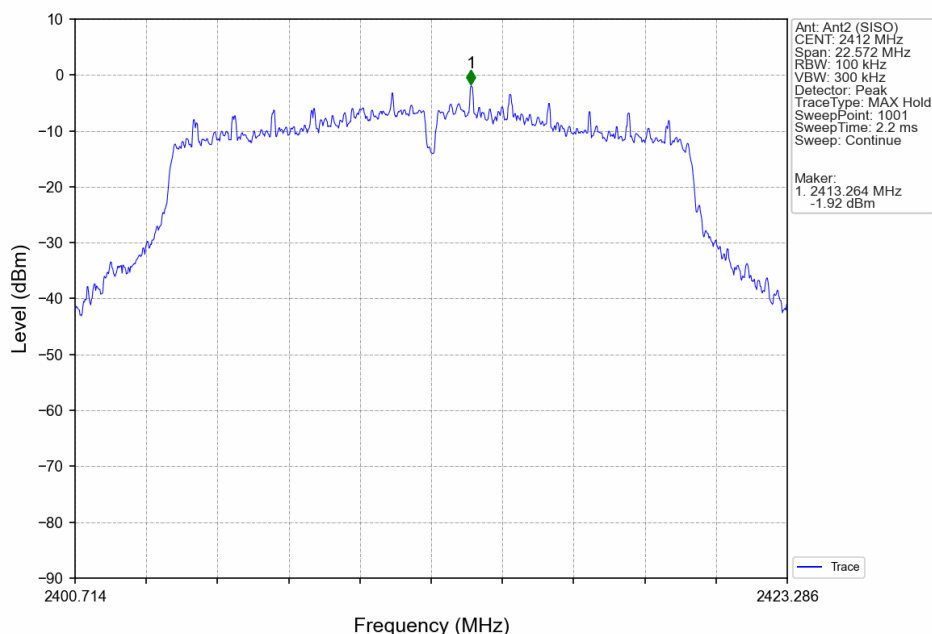
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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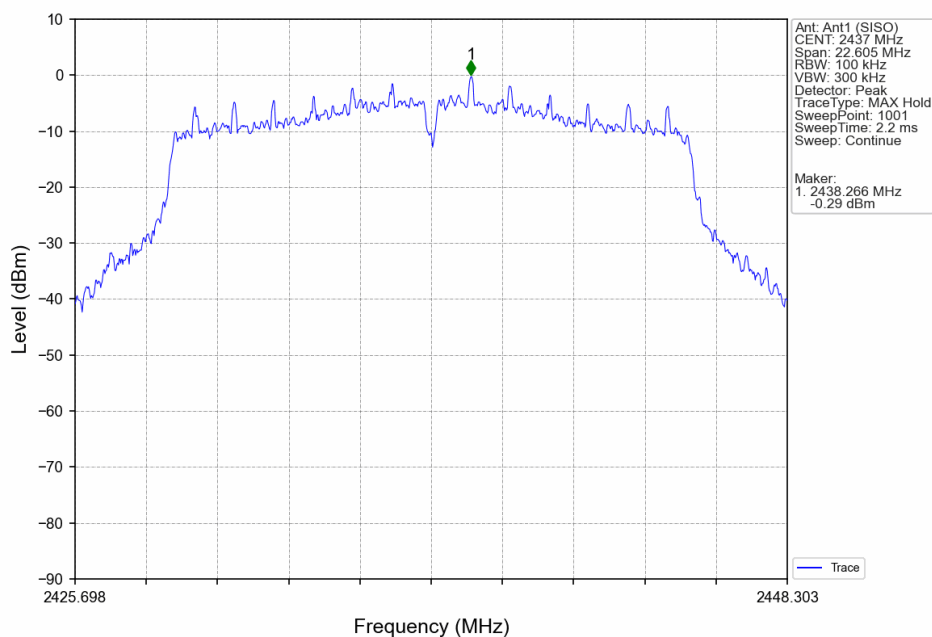
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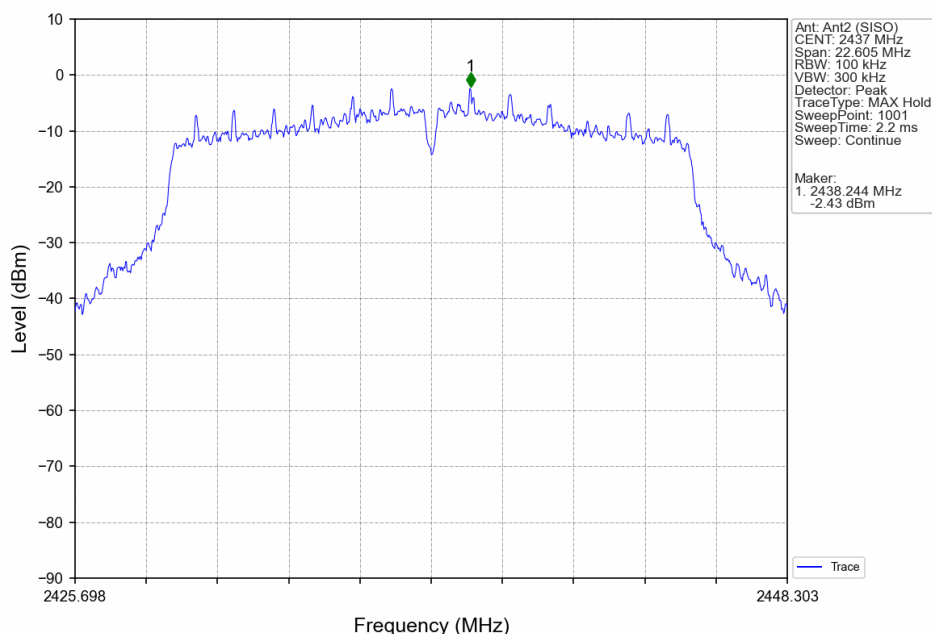
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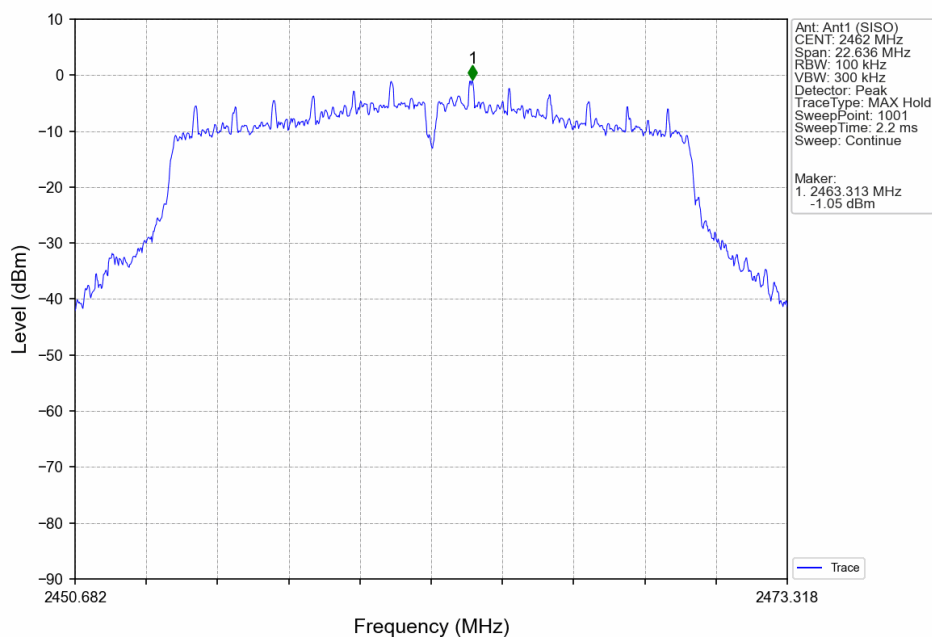
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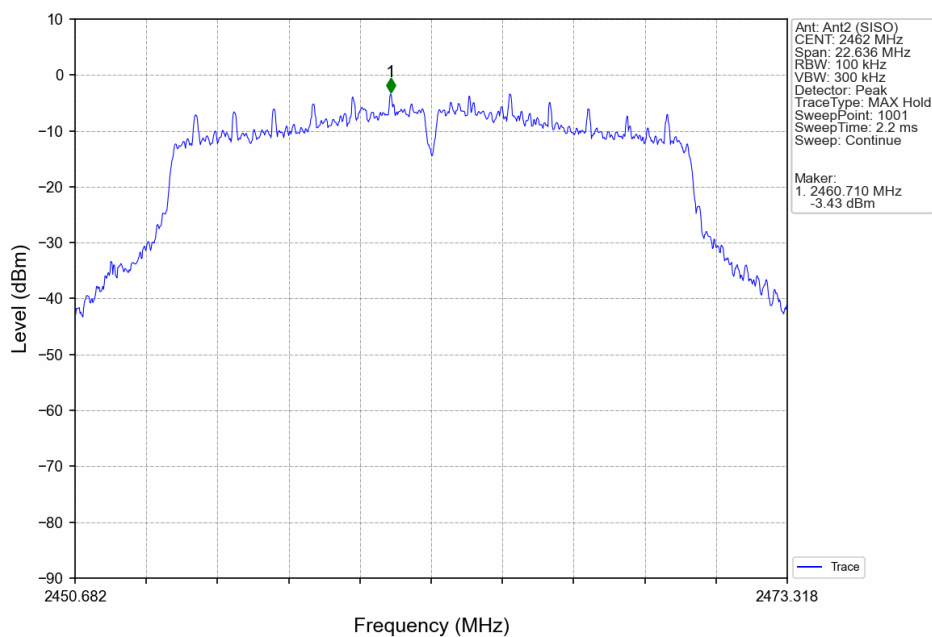
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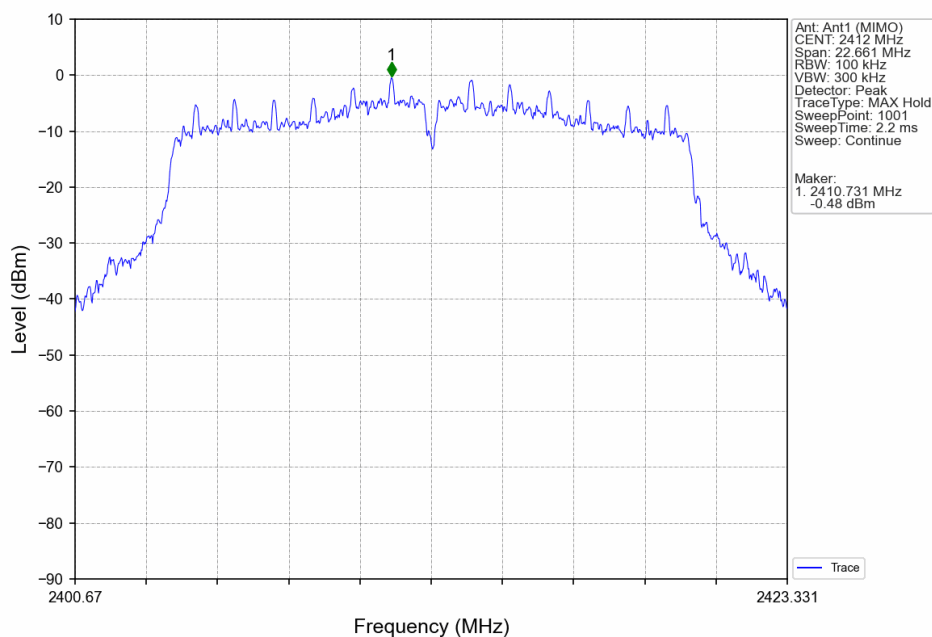
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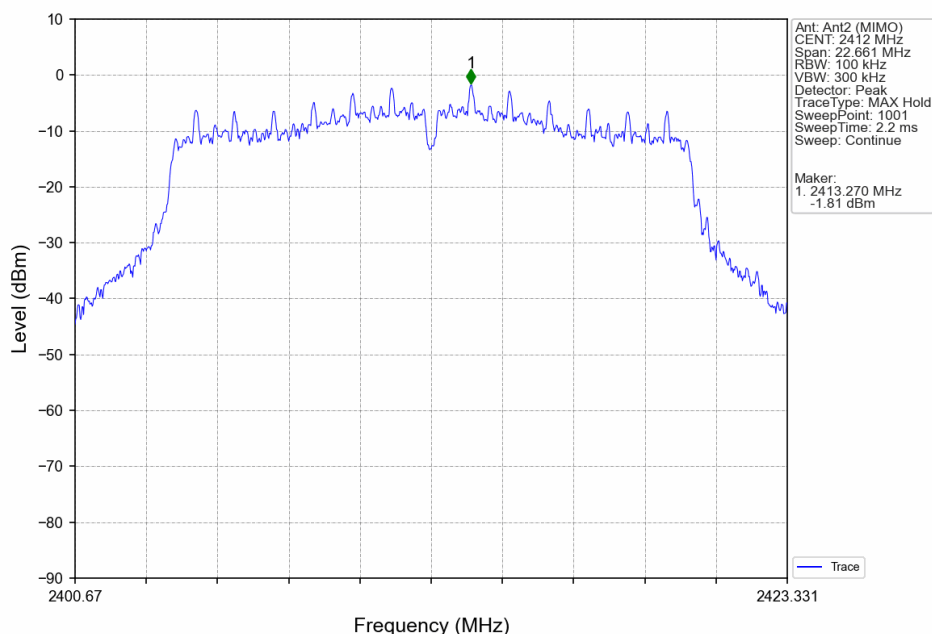
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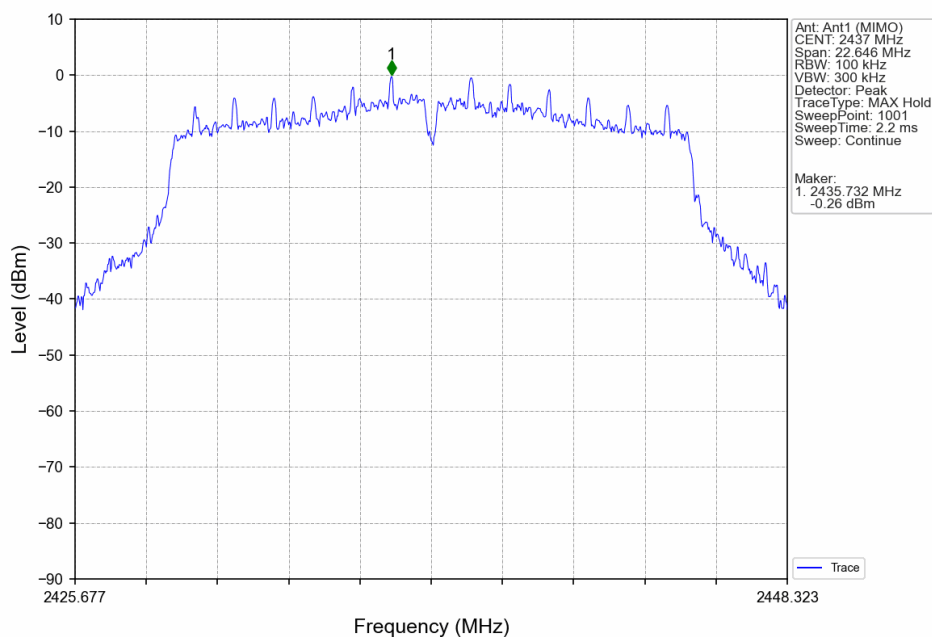
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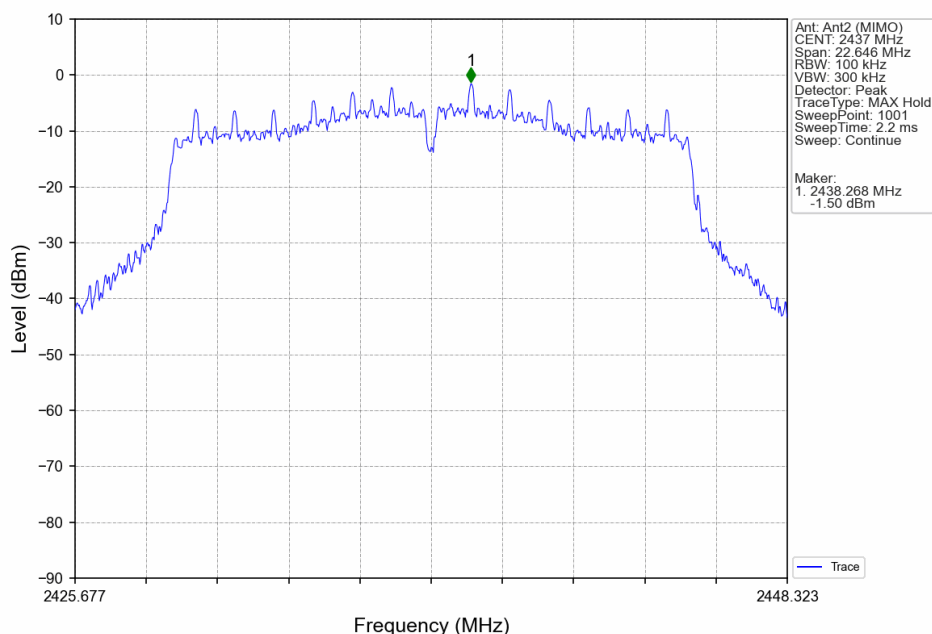
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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