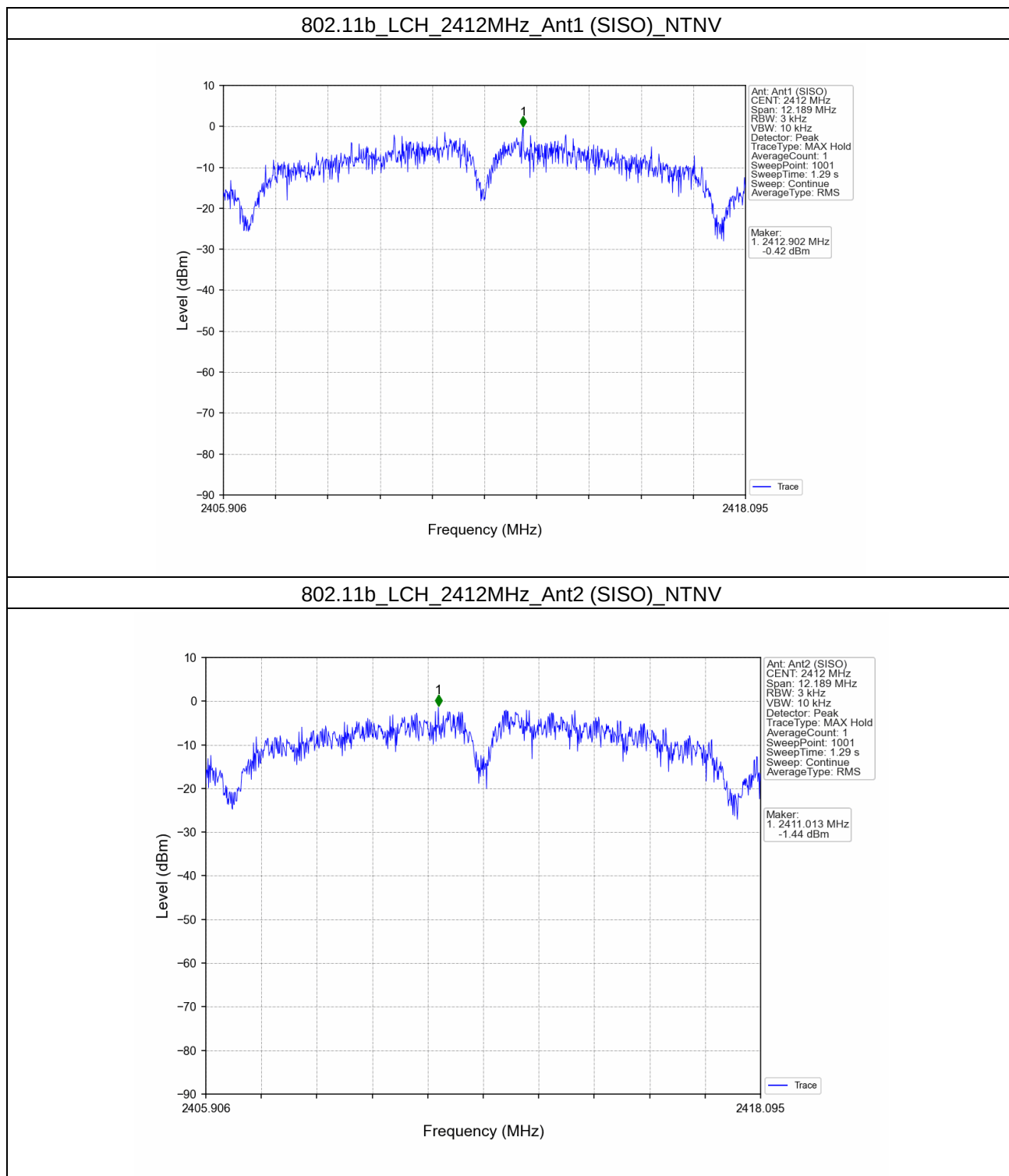


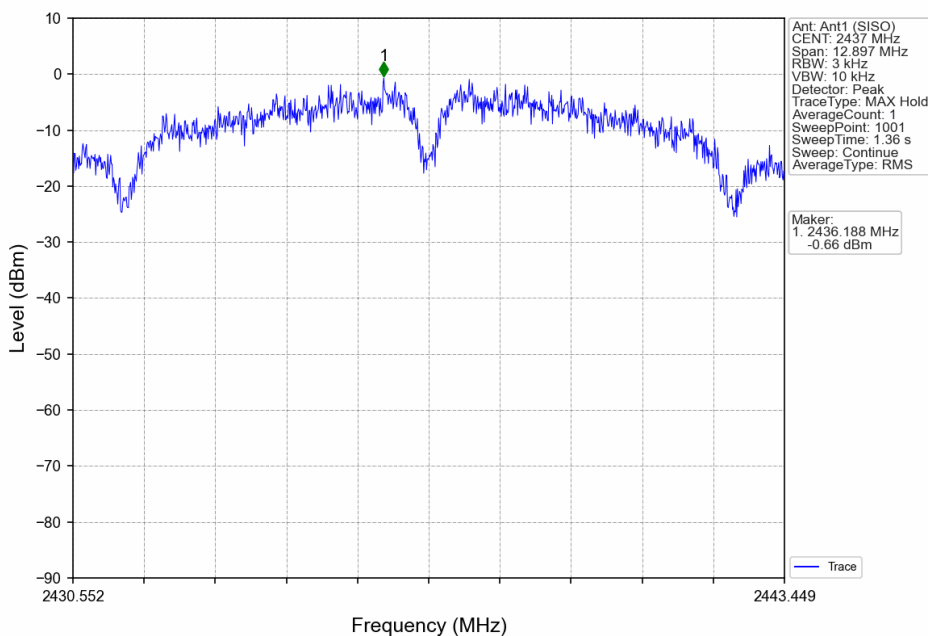
### 4.1.2 Test Graph



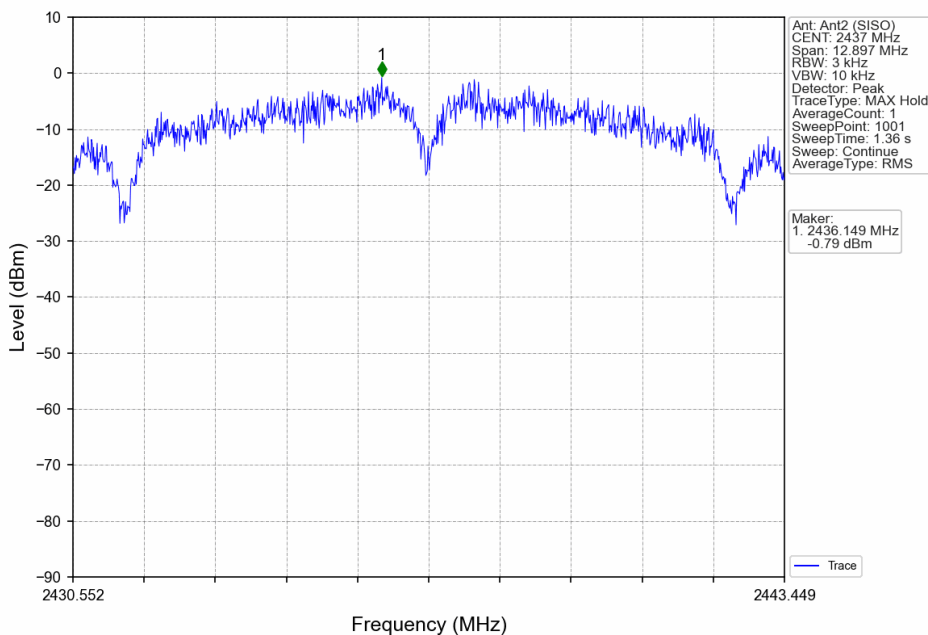
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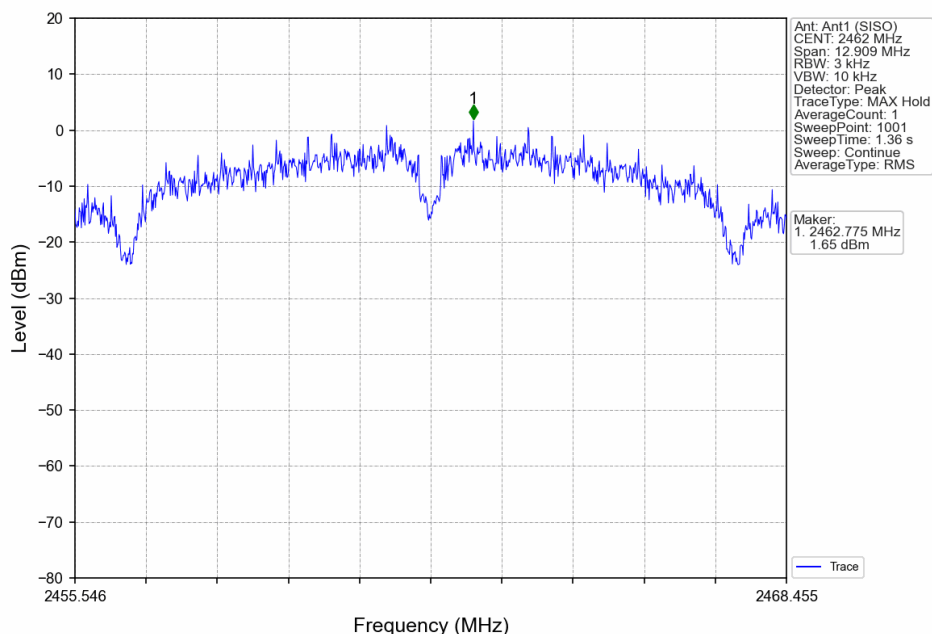
802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



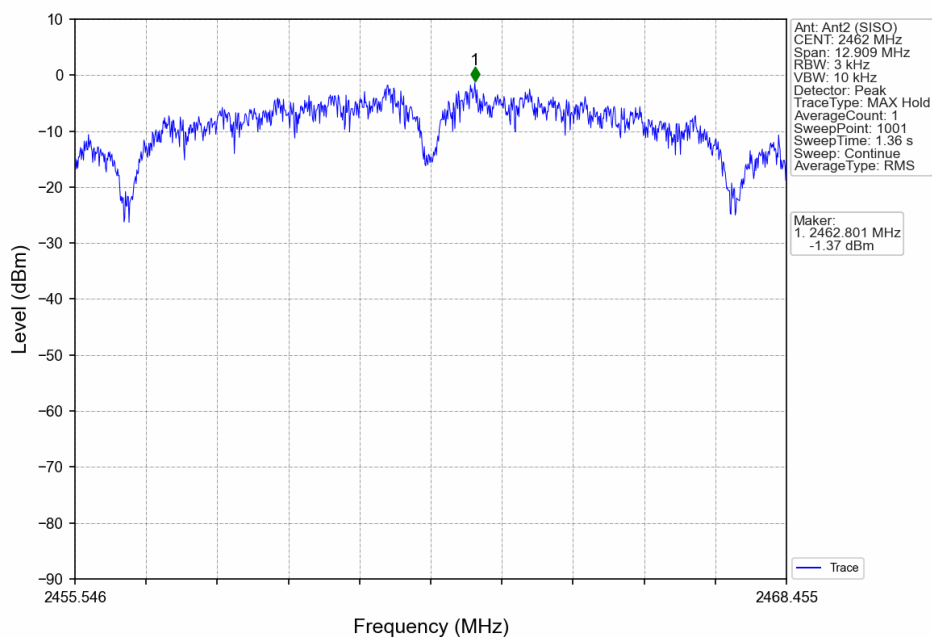
802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



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



802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



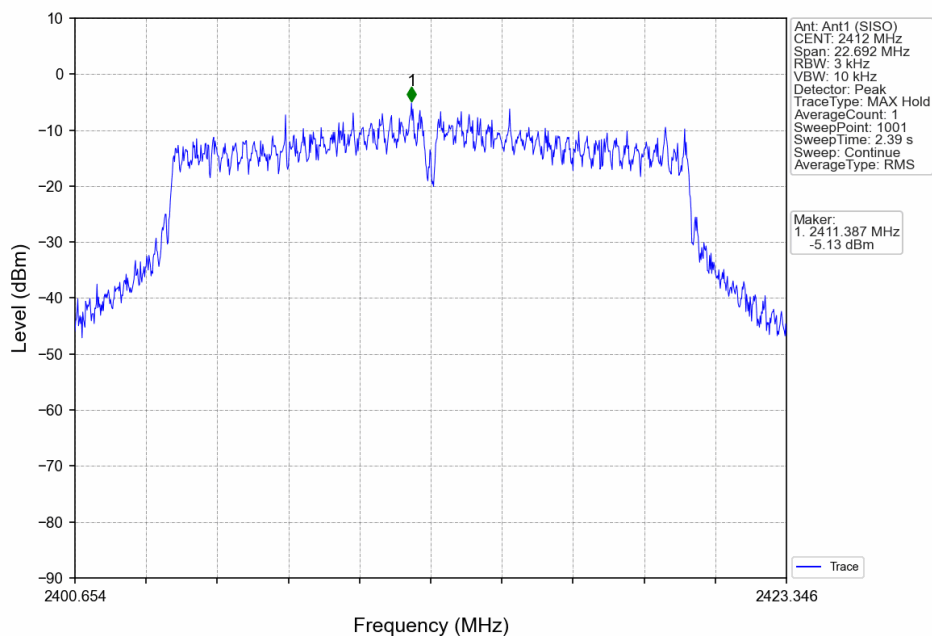
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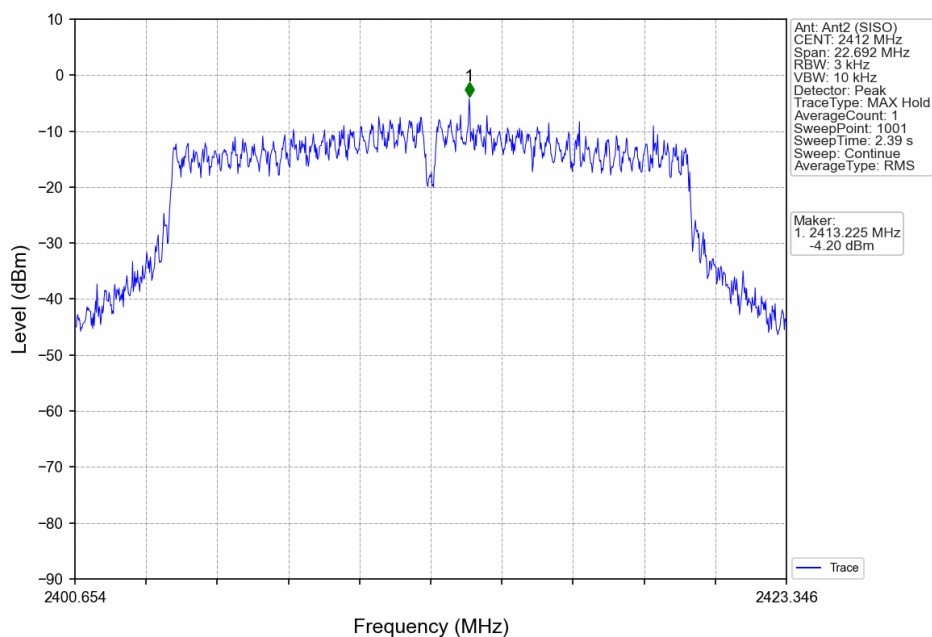
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



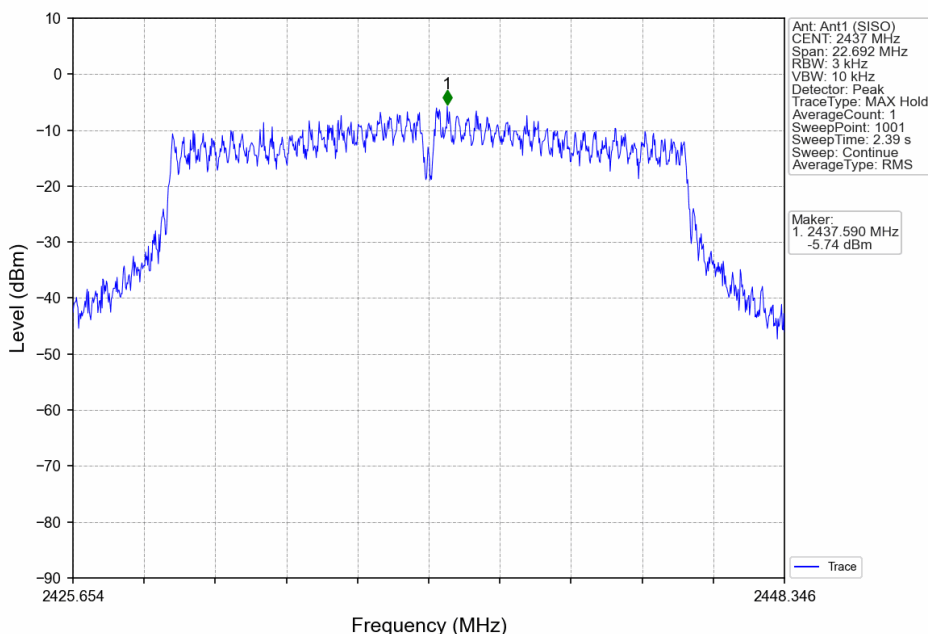
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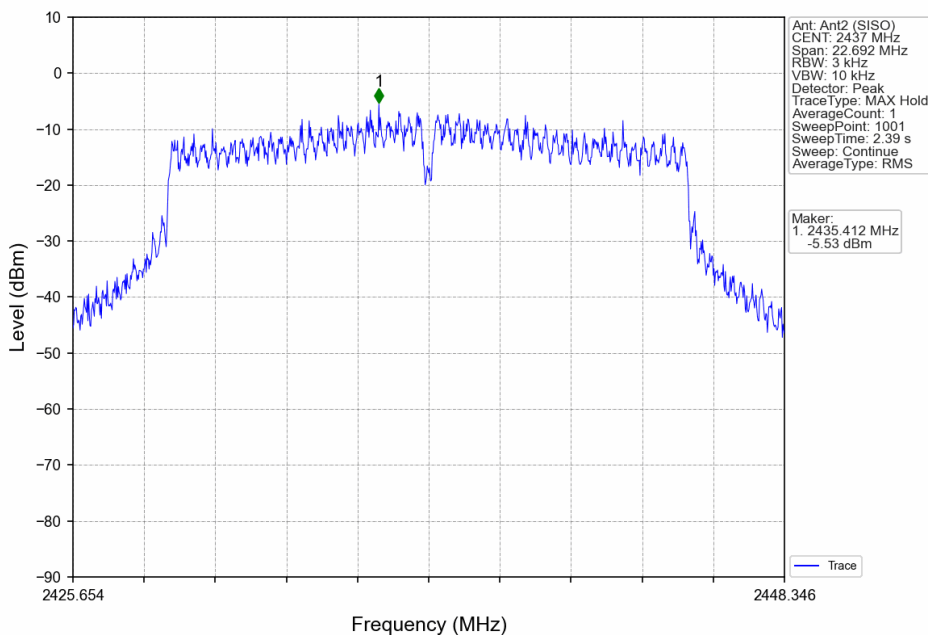
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



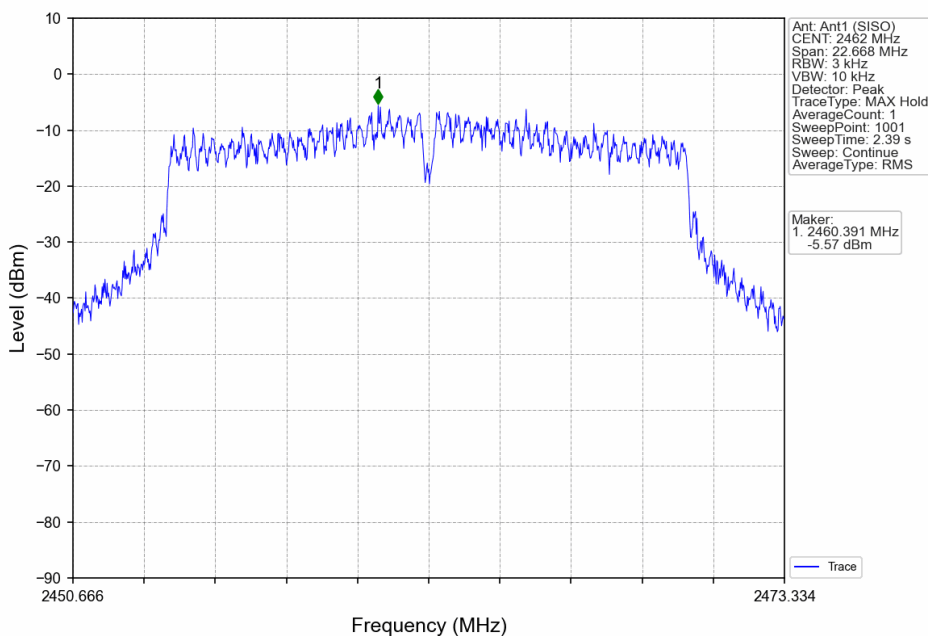
802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



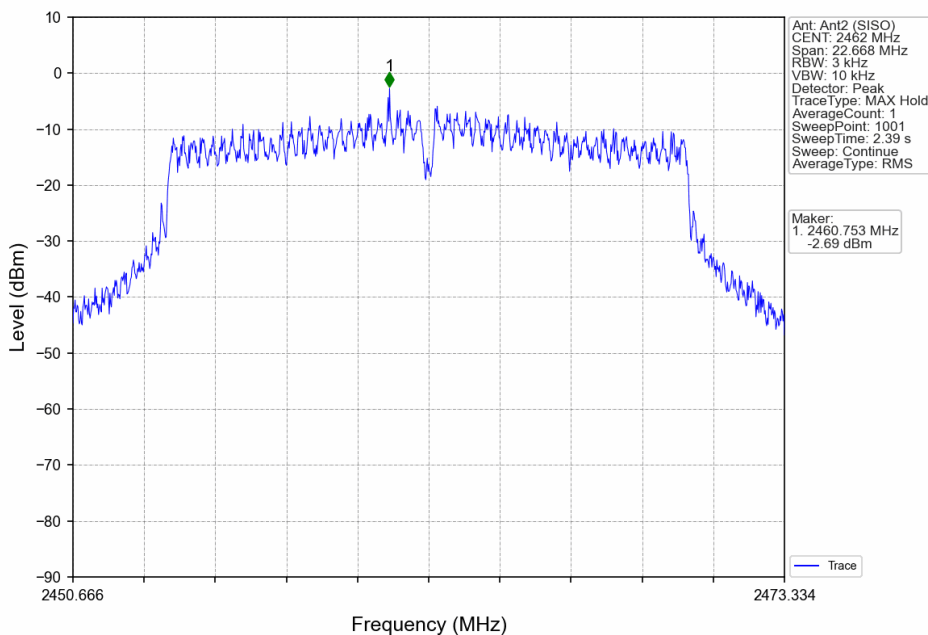
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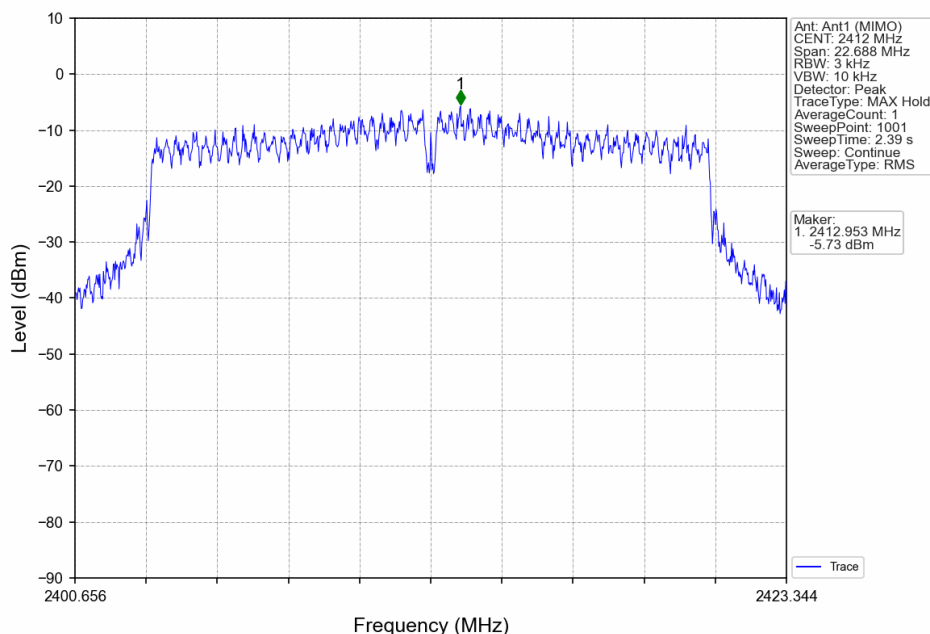
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



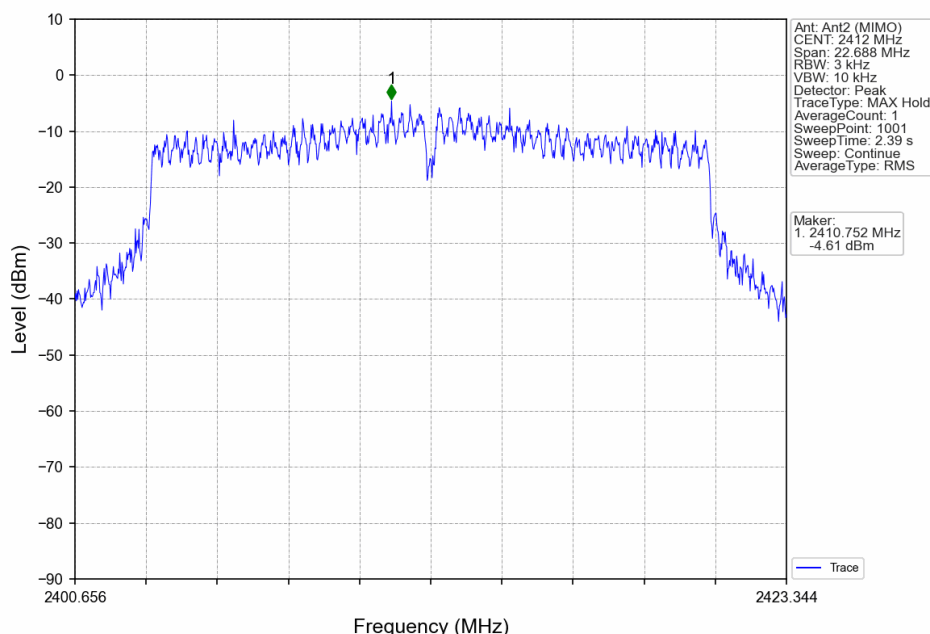
802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



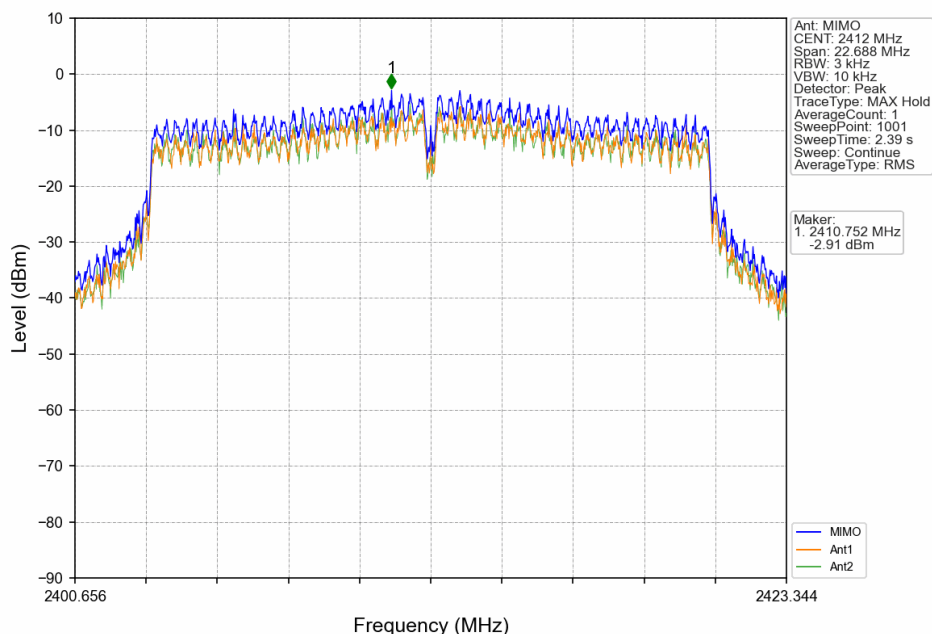
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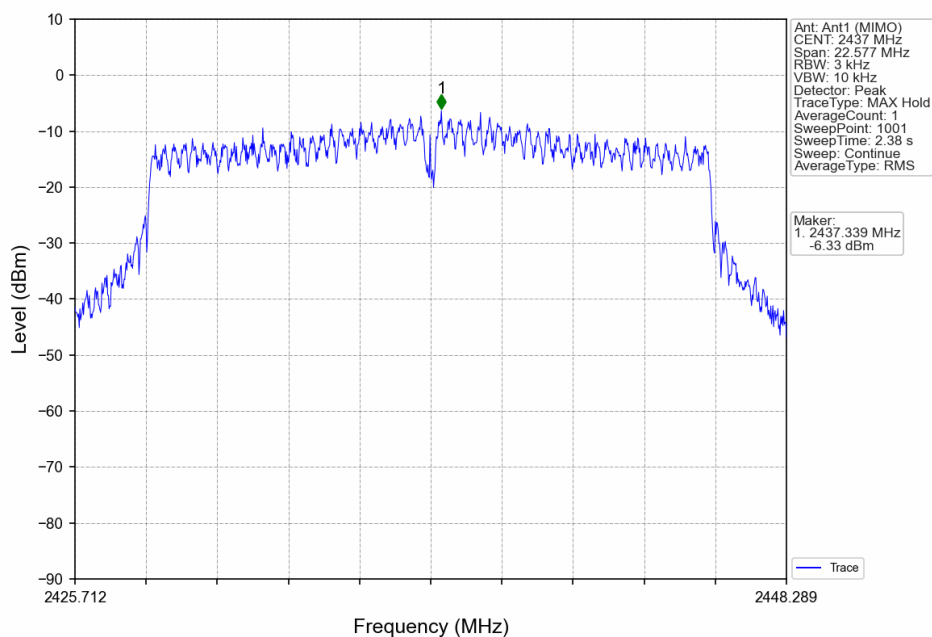
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802.11n(HT20)\_LCH\_2412MHz\_MIMO\_NTNV



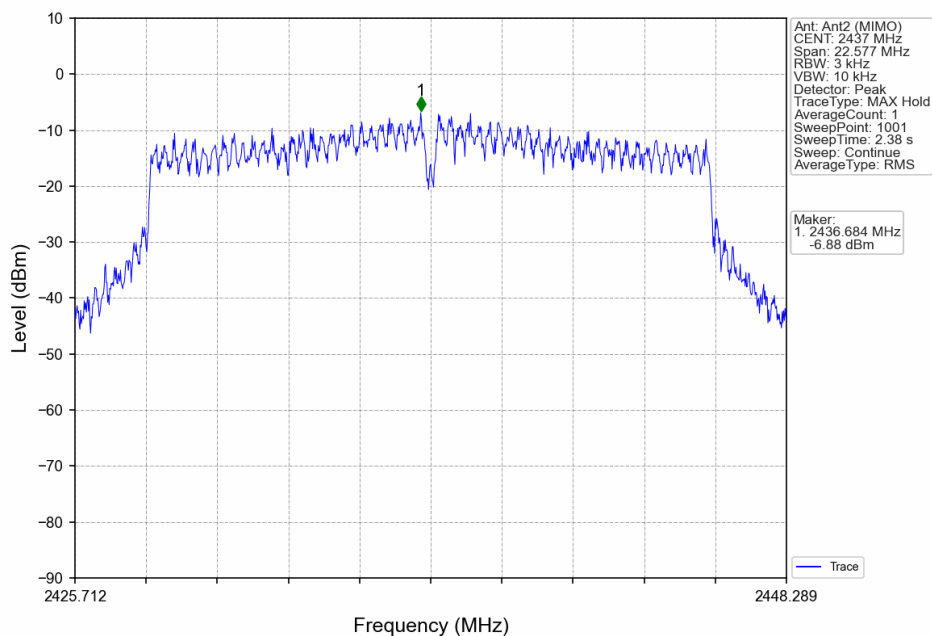
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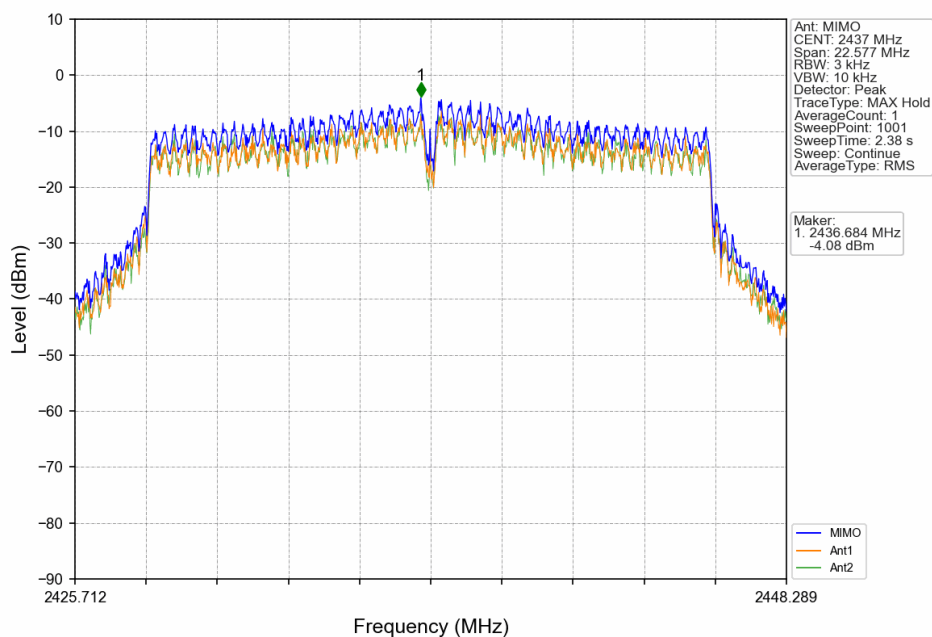
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802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_MIMO\_NTNV



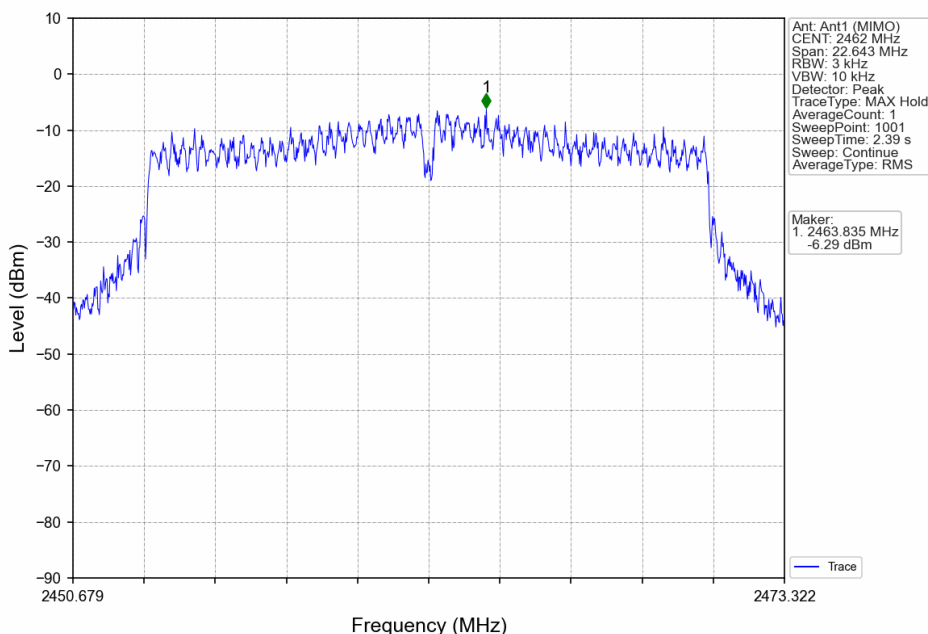
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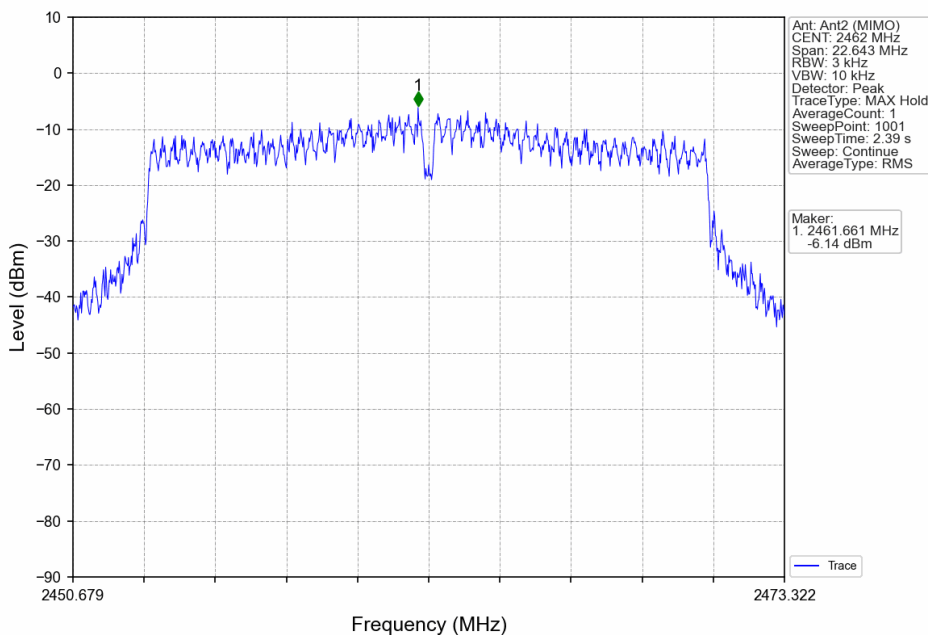
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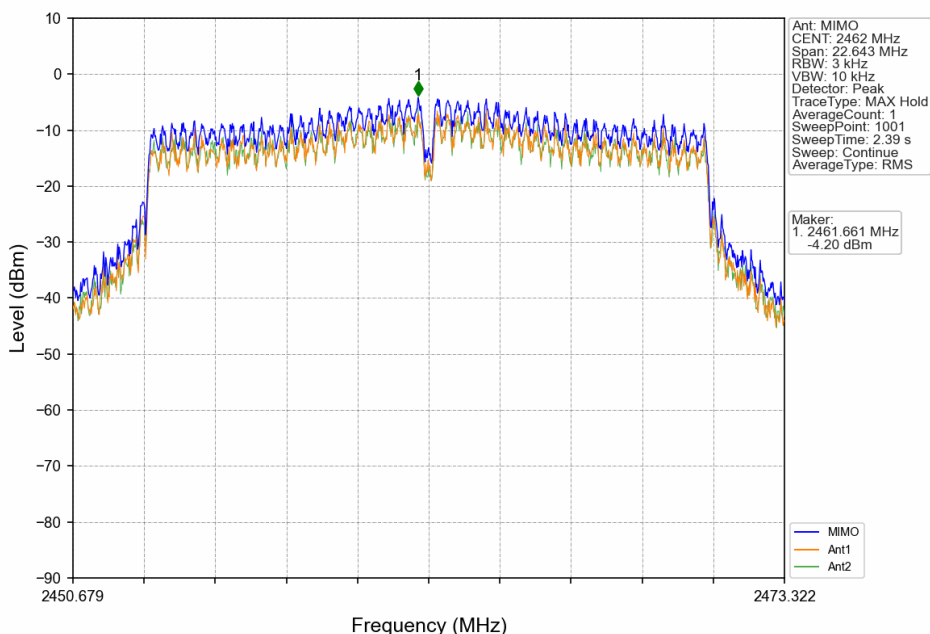
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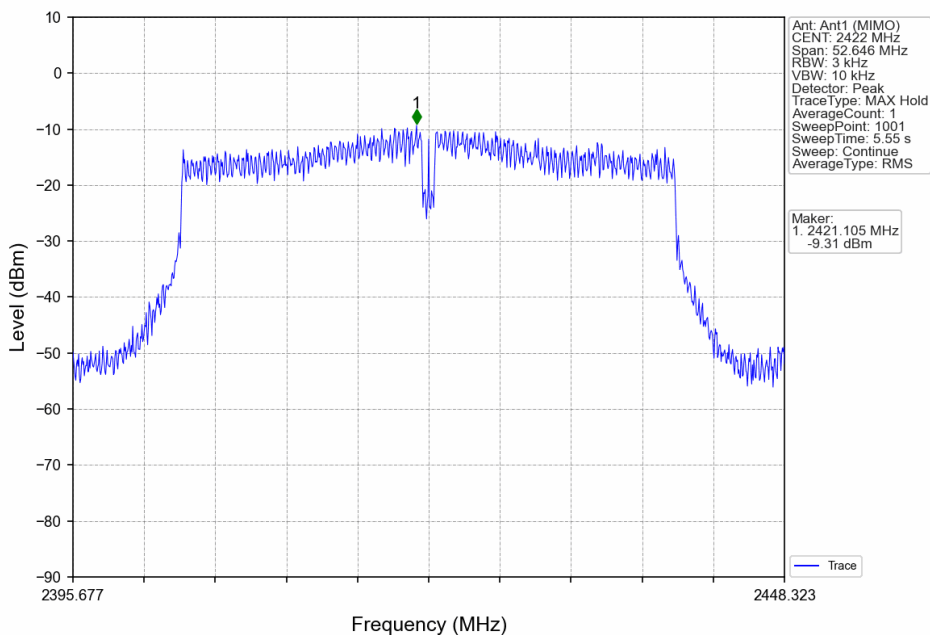
802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



802.11n(HT20)\_HCH\_2462MHz\_MIMO\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



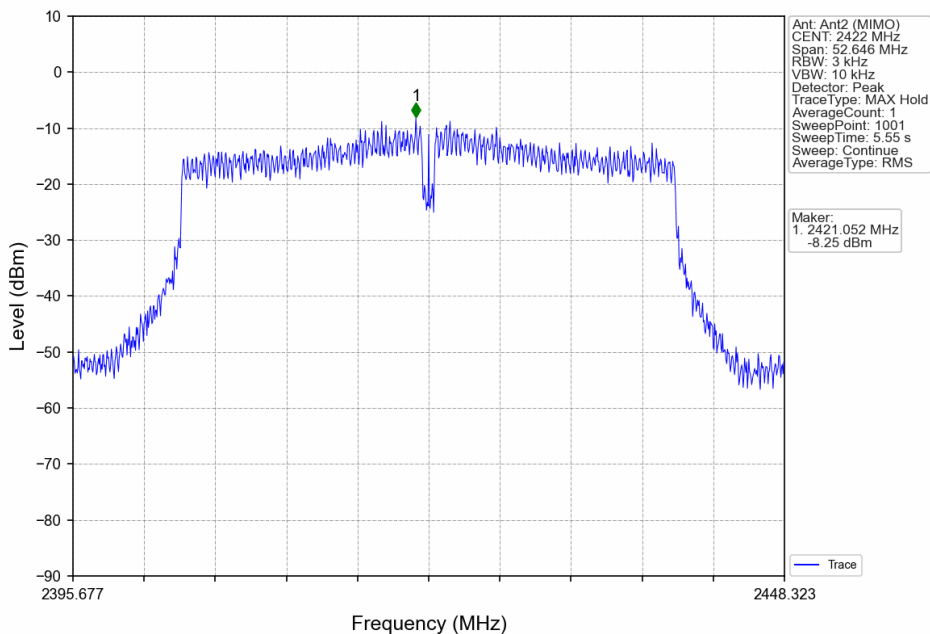
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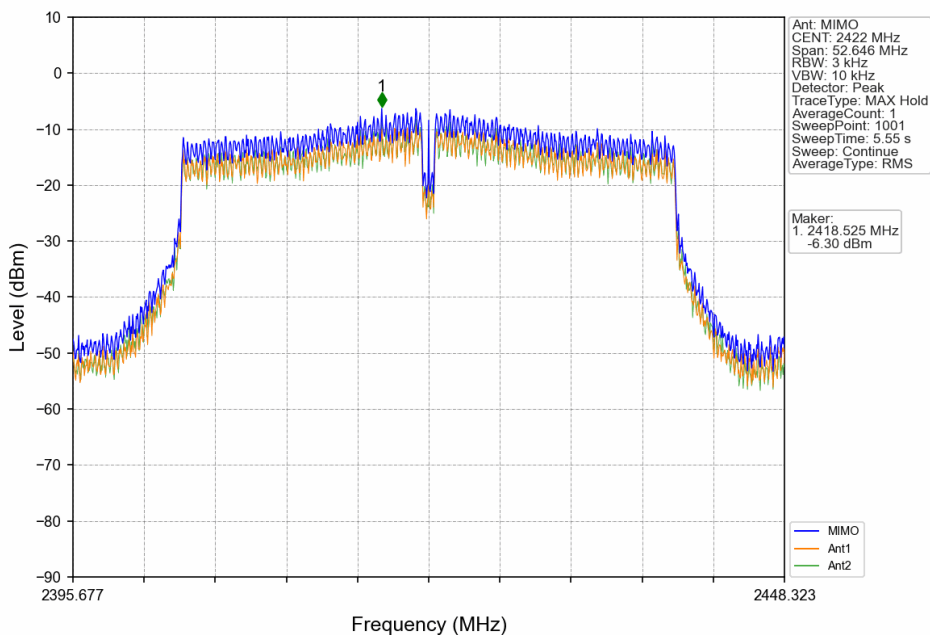
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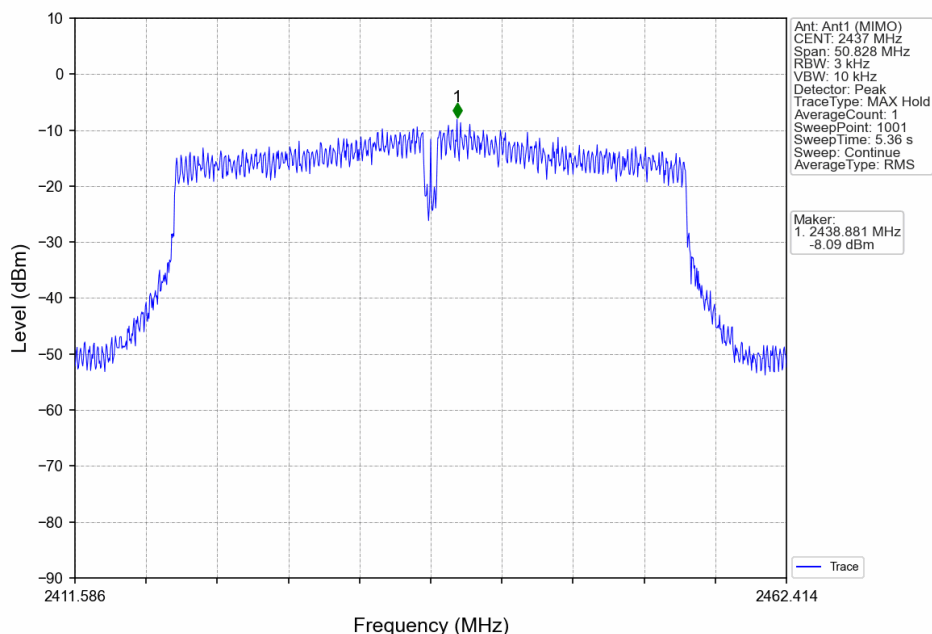
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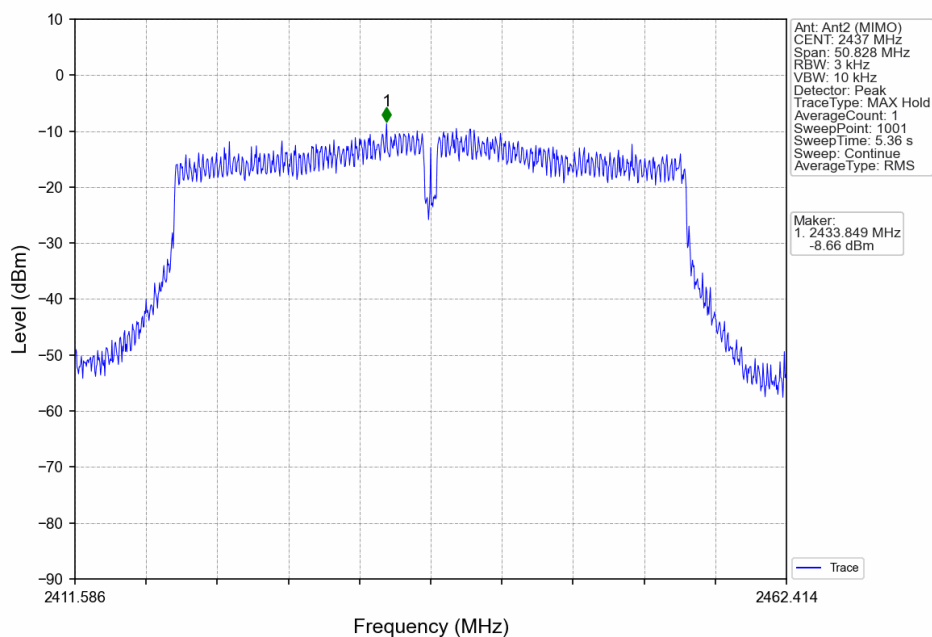
### 802.11n(HT40)\_LCH\_2422MHz\_MIMO\_NTNV



802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



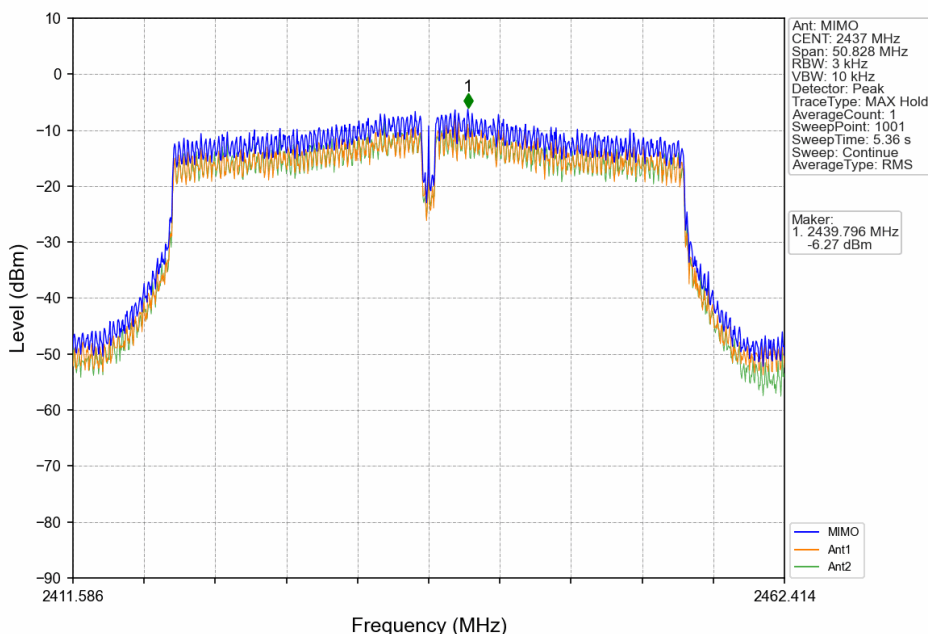
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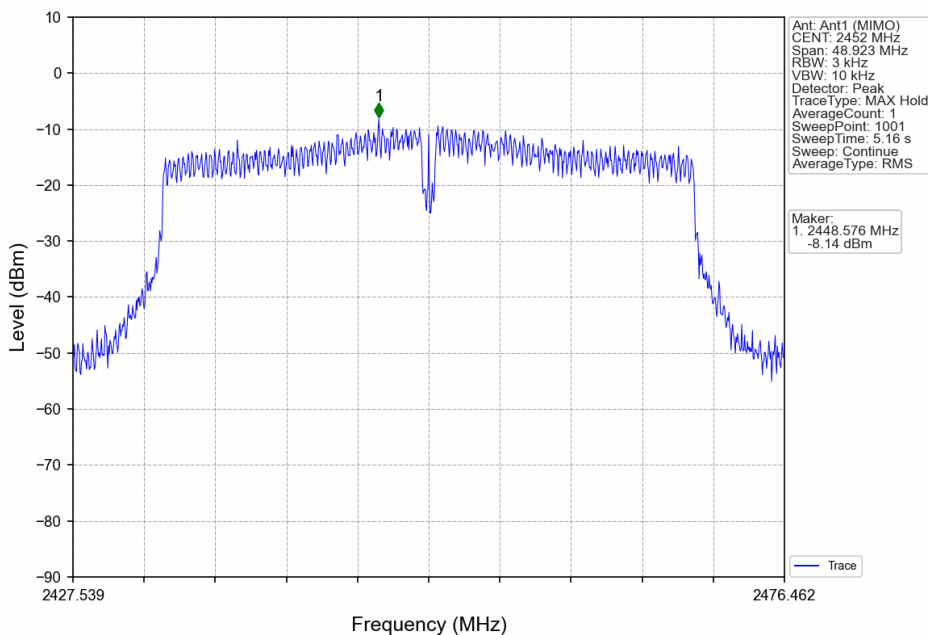
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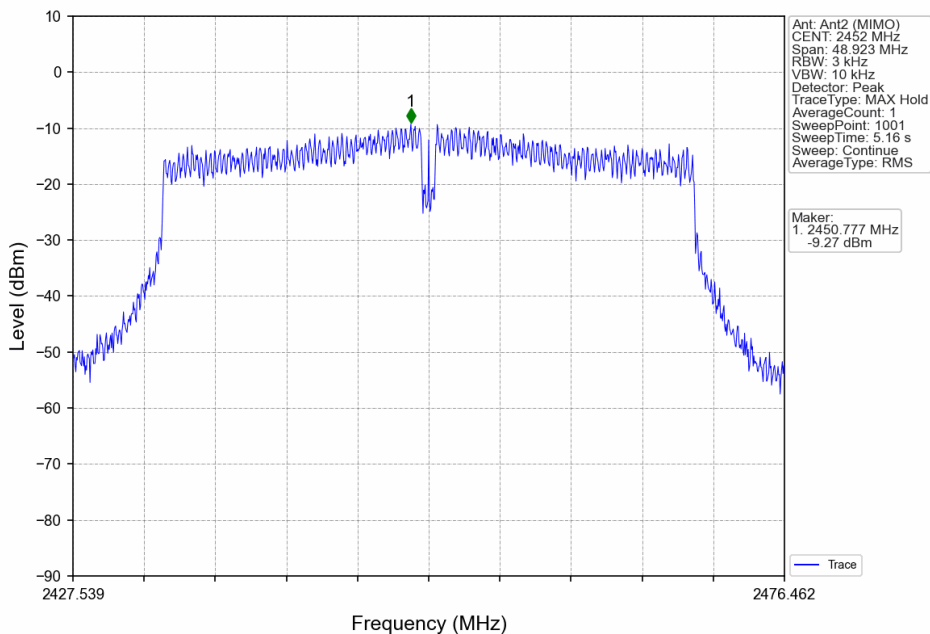
802.11n(HT40)\_MCH\_2437MHz\_MIMO\_NTNV



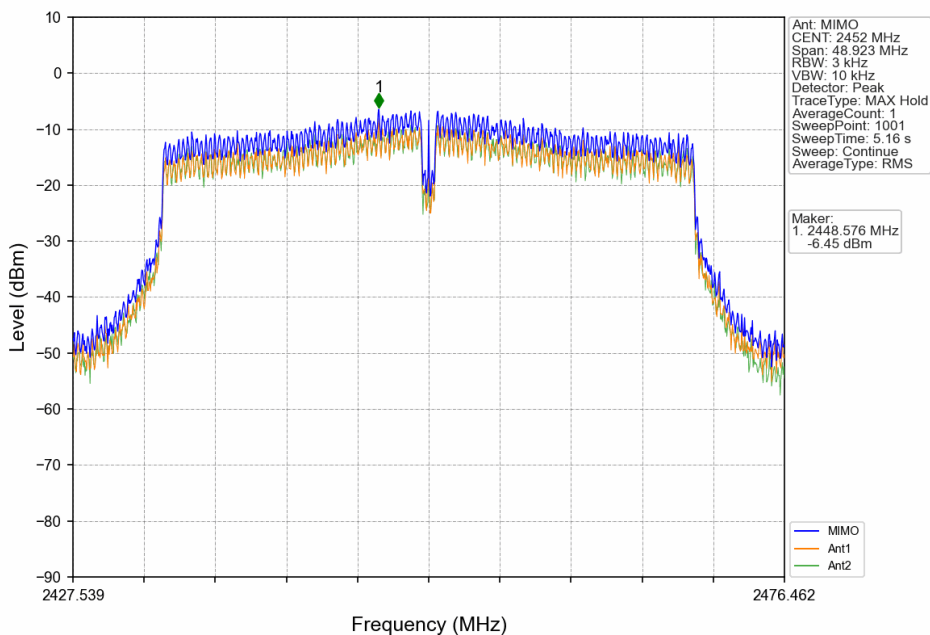
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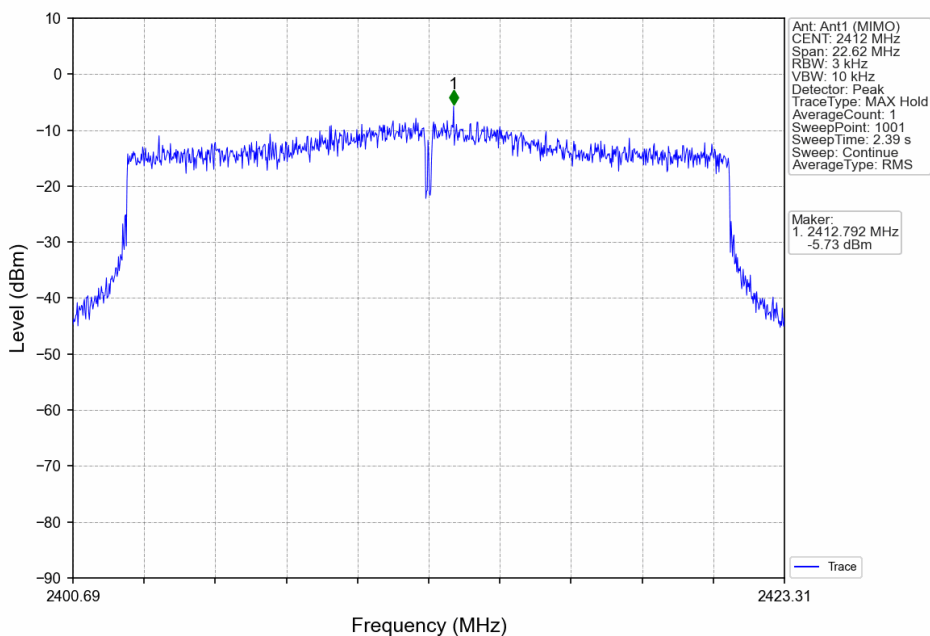
802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



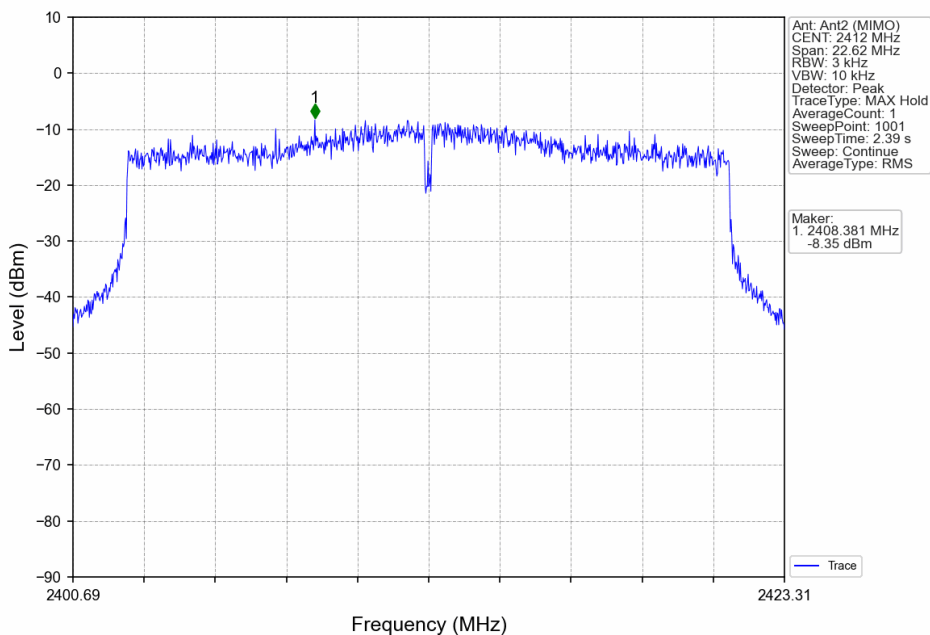
802.11n(HT40)\_HCH\_2452MHz\_MIMO\_NTNV



802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV



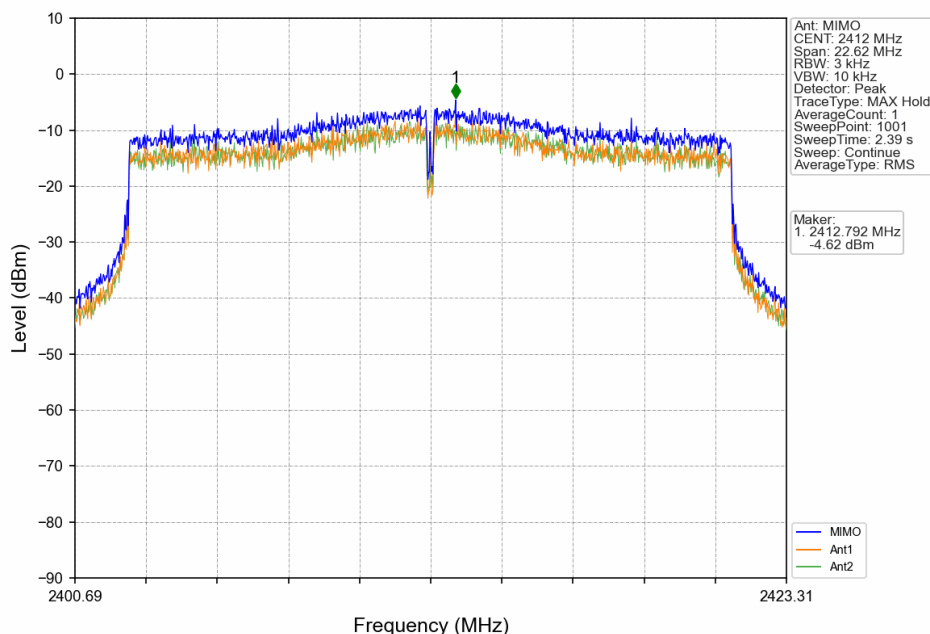
802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant2 (MIMO)\_NTNV



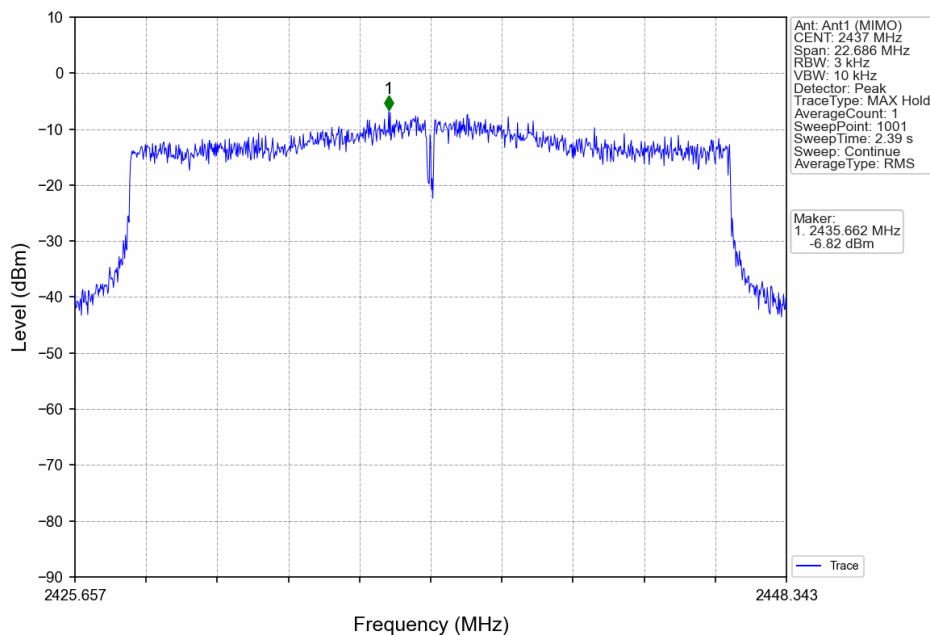
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802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_MIMO\_NTNV



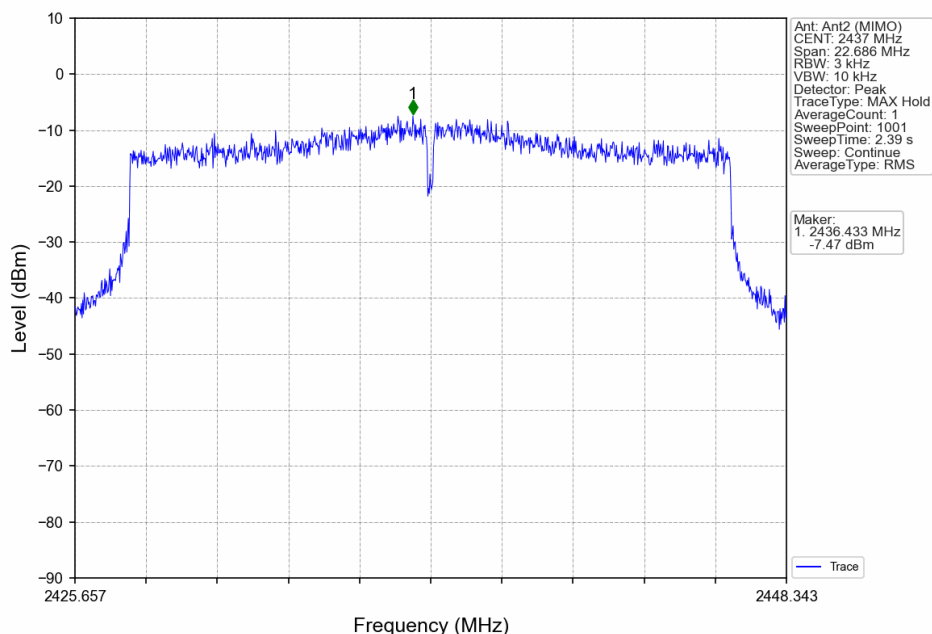
802.11ax(HEW20)\_MCH\_2437MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV



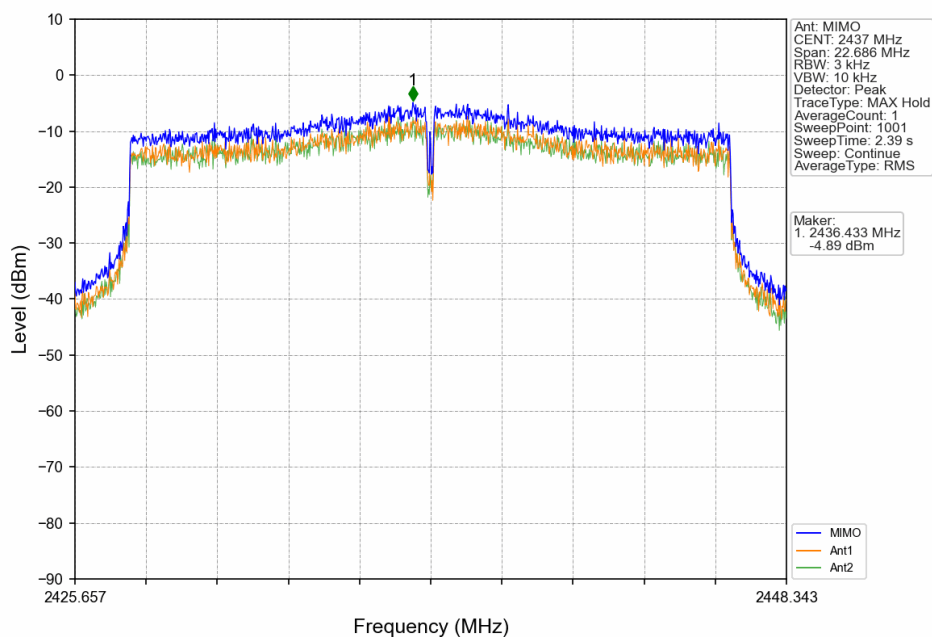
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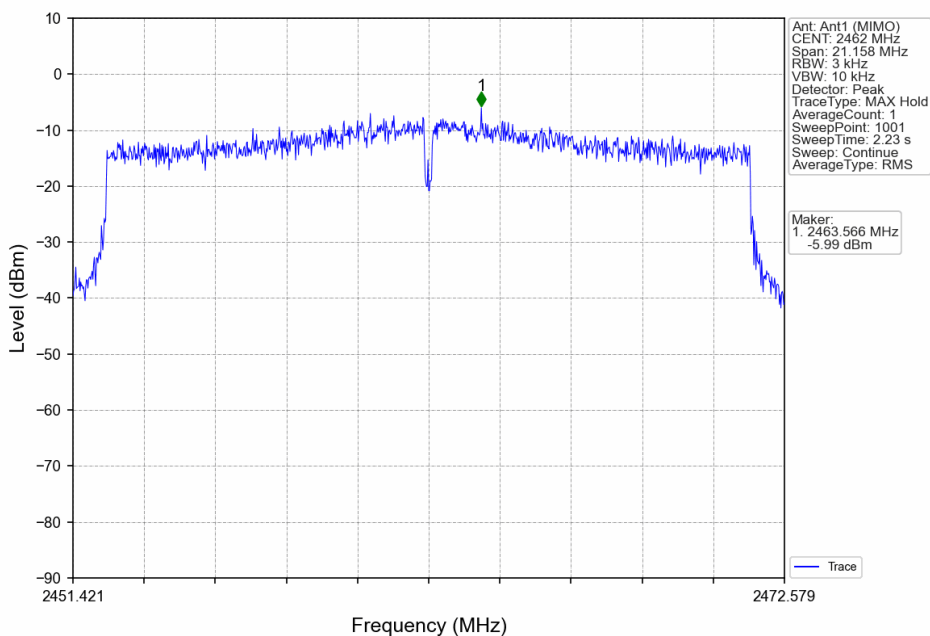
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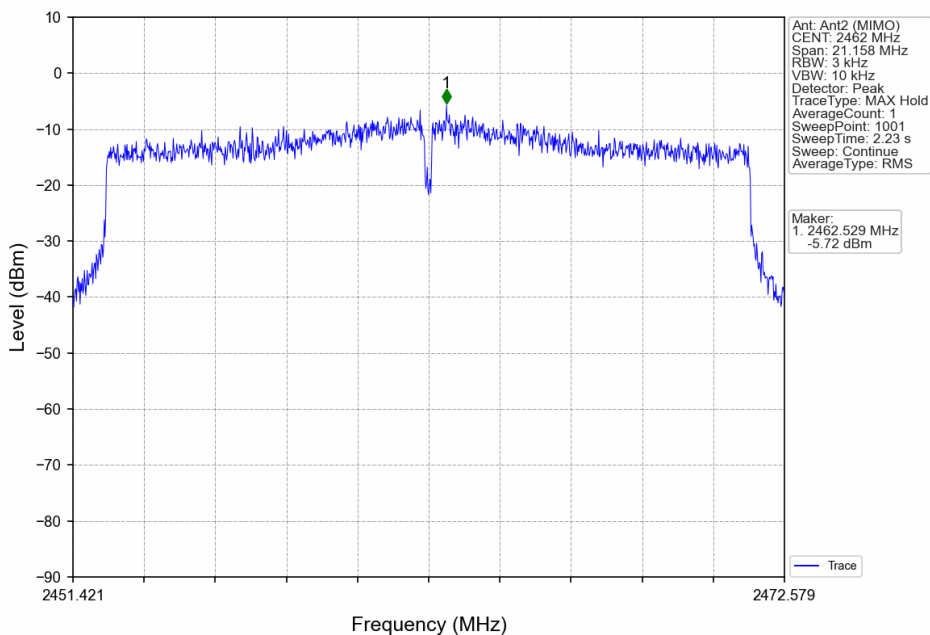
### 802.11ax(HEW20)\_MCH\_2437MHz\_RU242\_Left\_MIMO\_NTNV



802.11ax(HEW20)\_HCH\_2462MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV



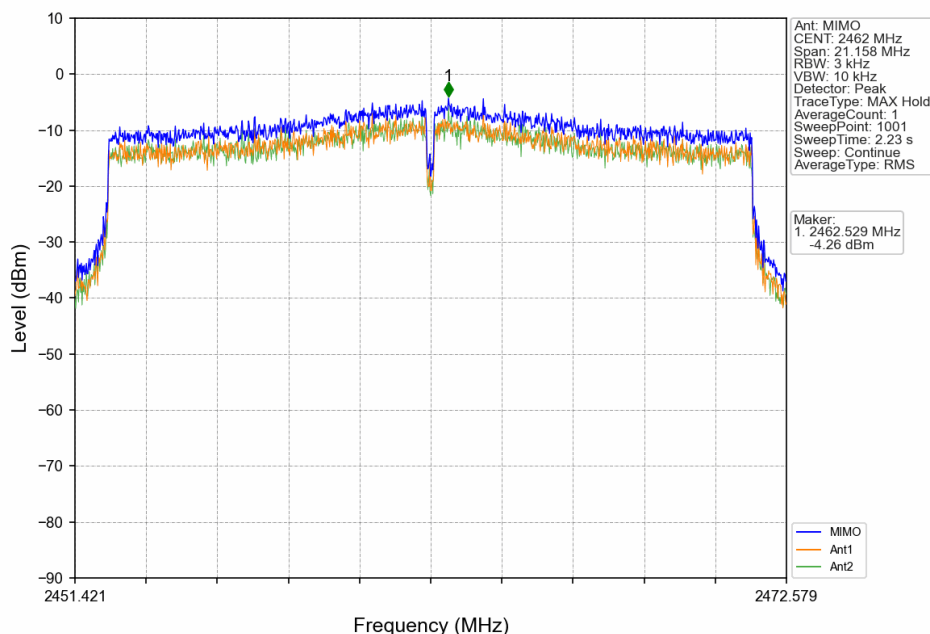
802.11ax(HEW20)\_HCH\_2462MHz\_RU242\_Left\_Ant2 (MIMO)\_NTNV



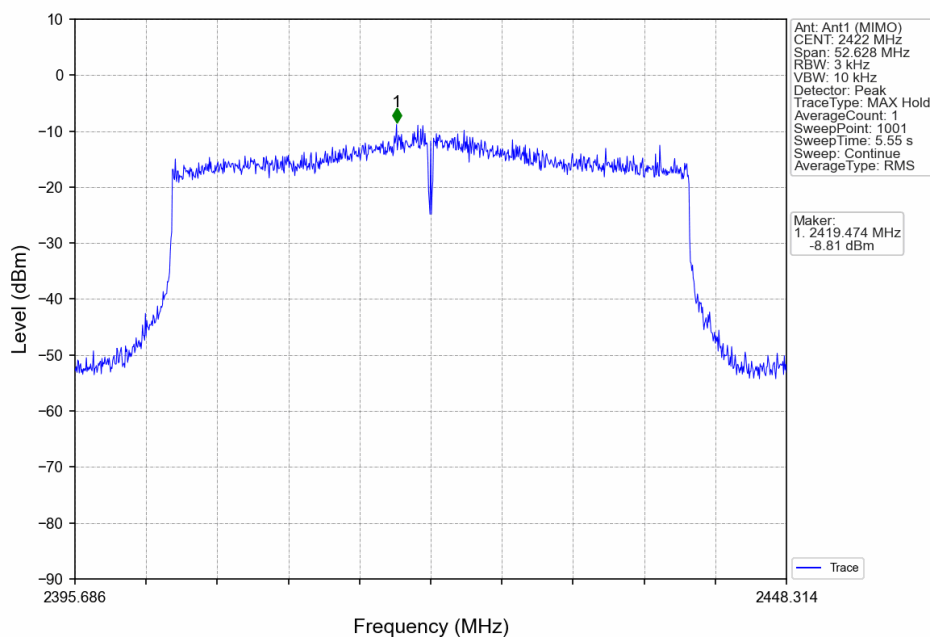
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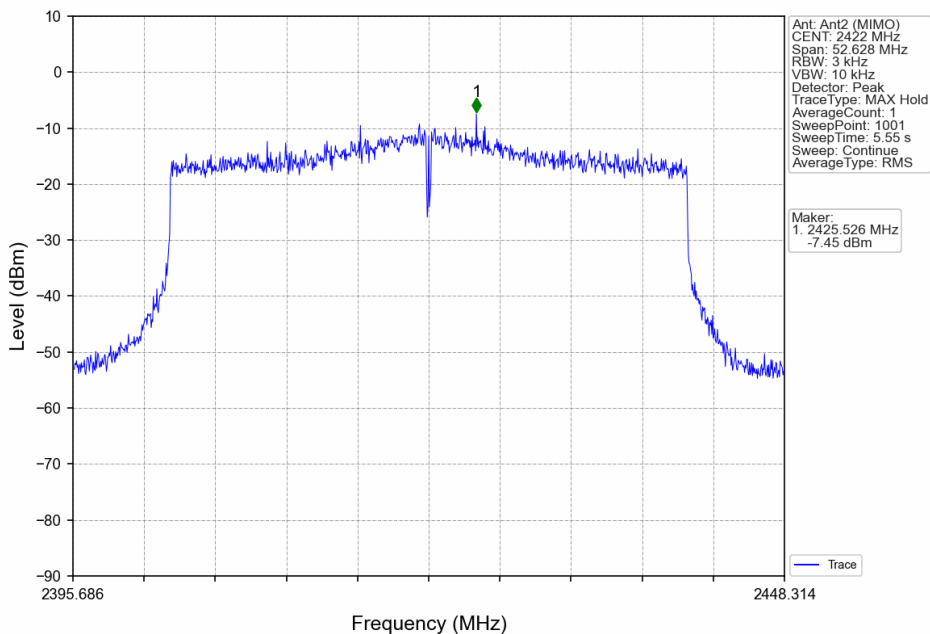
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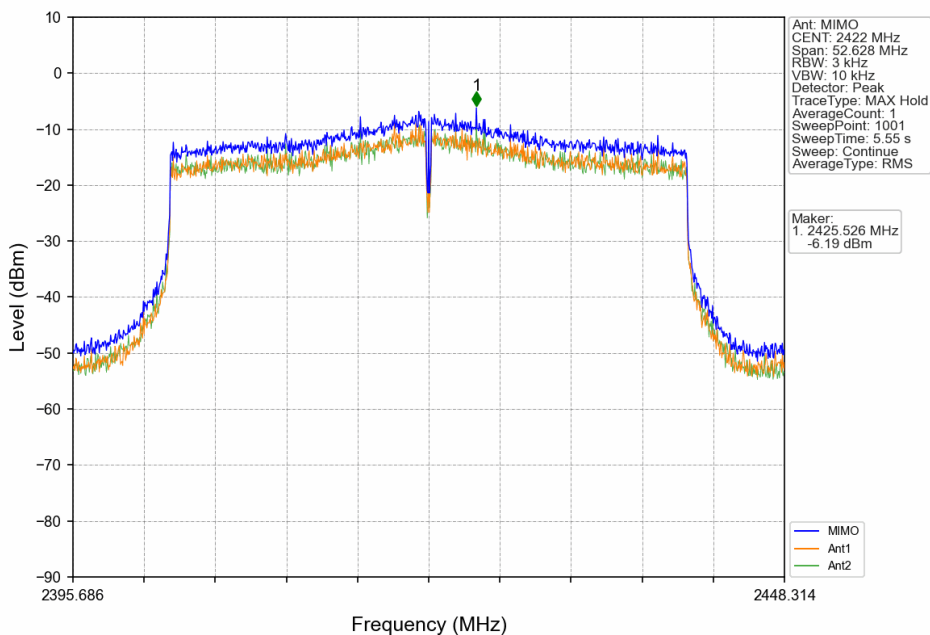
### 802.11ax(HEW40)\_LCH\_2422MHz\_RU484\_Left\_Ant1 (MIMO)\_NTNV



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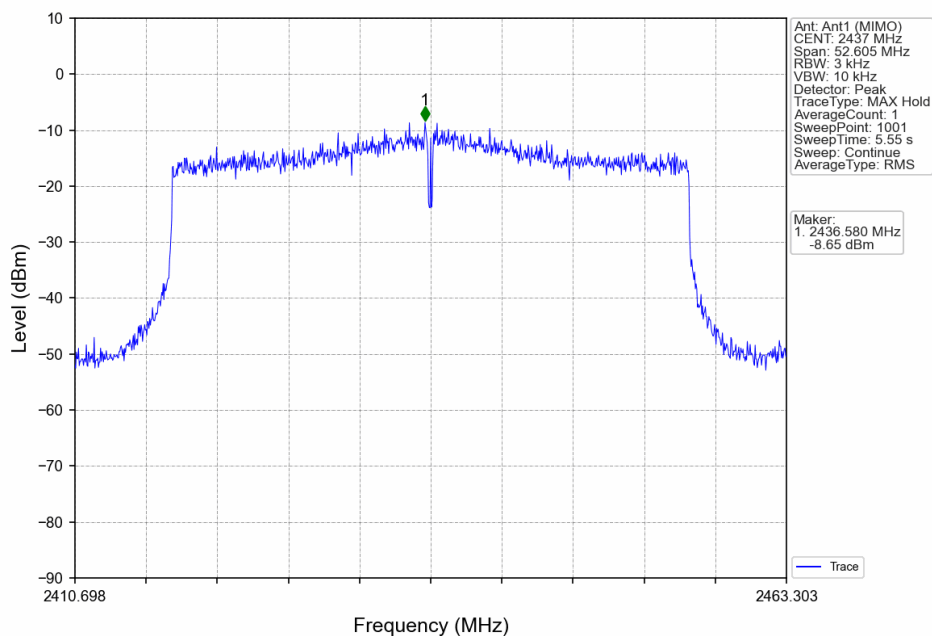
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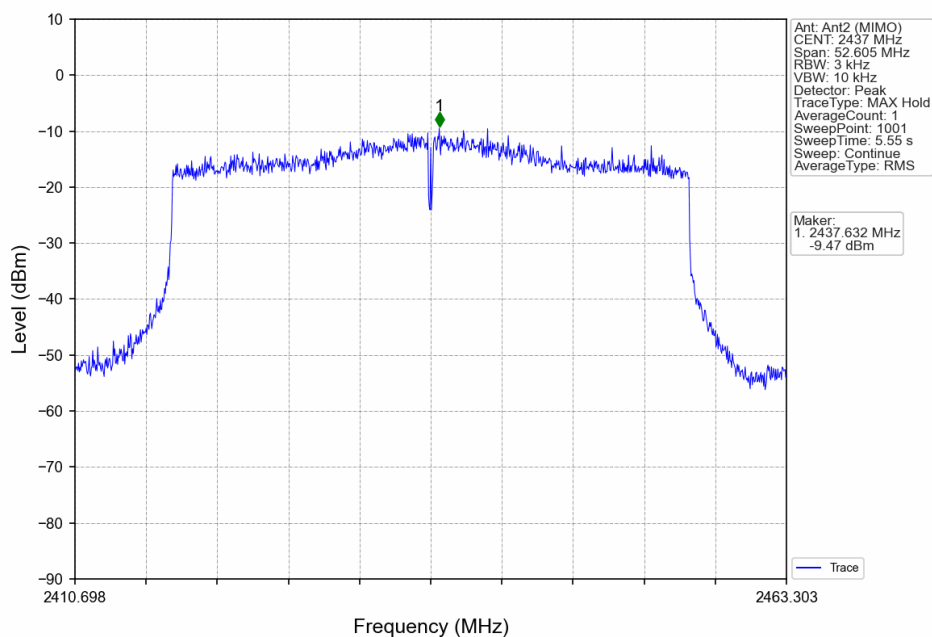
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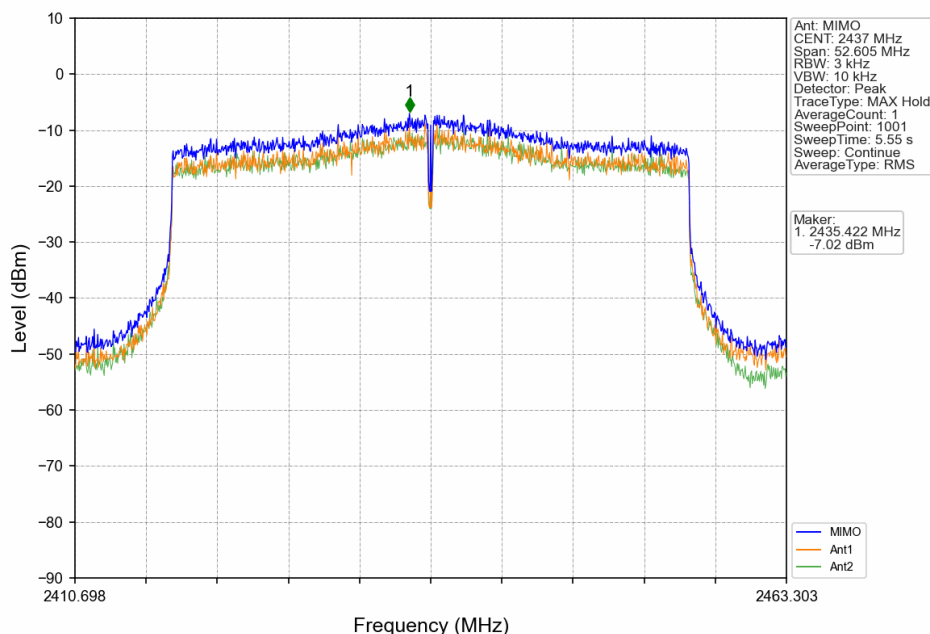
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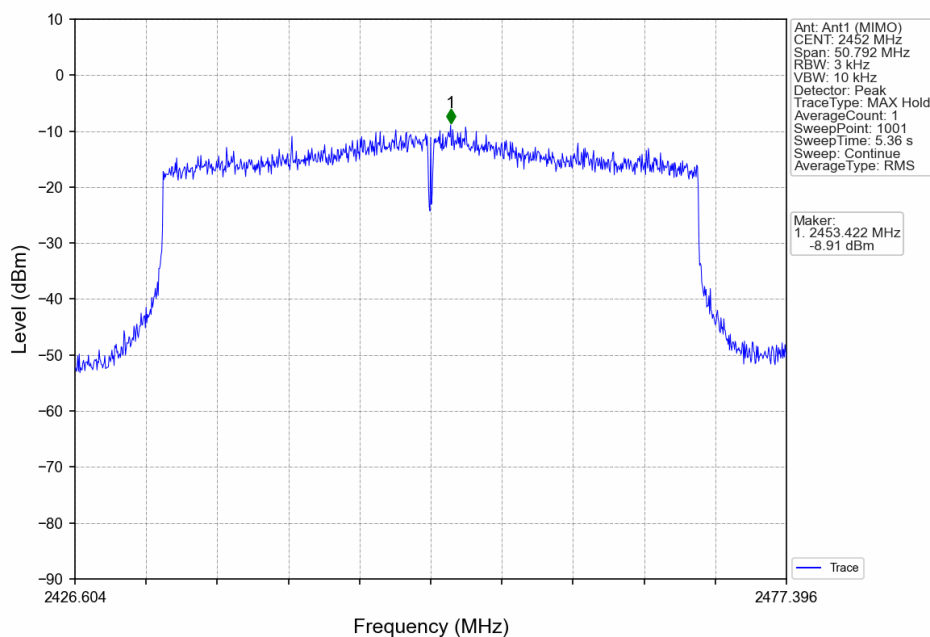
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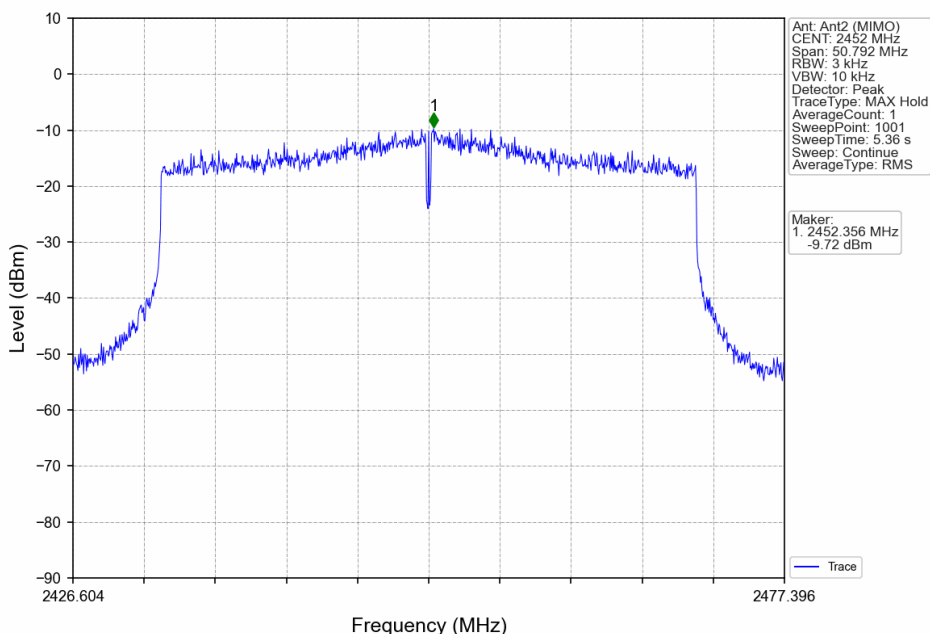
802.11ax(HEW40)\_MCH\_2437MHz\_RU484\_Left\_MIMO\_NTNV



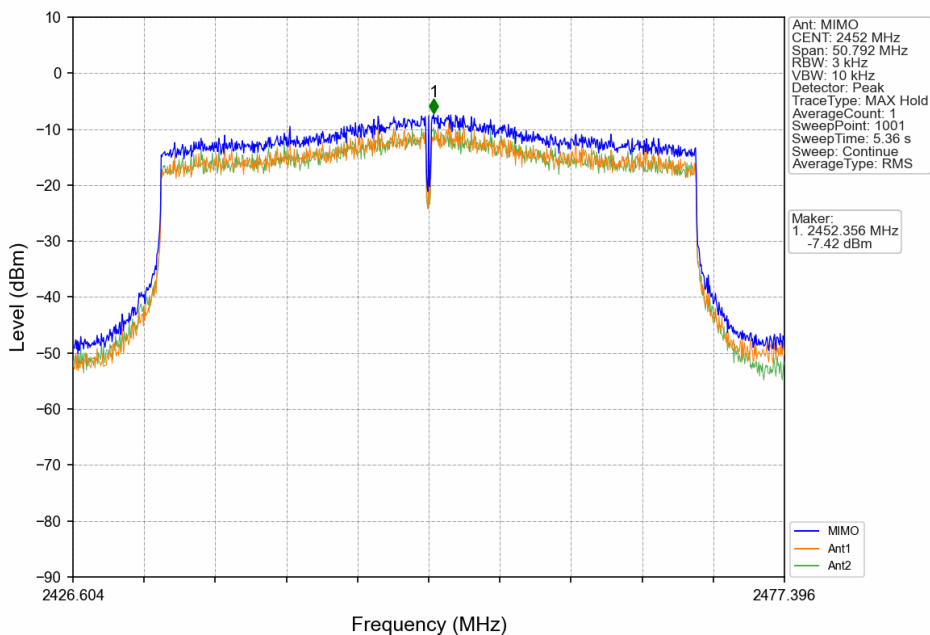
802.11ax(HEW40)\_HCH\_2452MHz\_RU484\_Left\_Ant1 (MIMO)\_NTNV



802.11ax(HEW40)\_HCH\_2452MHz\_RU484\_Left\_Ant2 (MIMO)\_NTNV



802.11ax(HEW40)\_HCH\_2452MHz\_RU484\_Left\_MIMO\_NTNV



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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | RU | RU Pos | ANT | Level of Reference (dBm) |
|----------------|---------|-----------------|----|--------|-----|--------------------------|
| 802.11b        | SISO    | 2412            | /  | /      | 1   | 13.06                    |
|                |         |                 |    |        | 2   | 13.04                    |
|                |         | 2437            | /  | /      | 1   | 13.65                    |
|                |         |                 |    |        | 2   | 13.36                    |
|                |         | 2462            | /  | /      | 1   | 13.74                    |
|                |         |                 |    |        | 2   | 13.52                    |
| 802.11g        | SISO    | 2412            | /  | /      | 1   | 9.70                     |
|                |         |                 |    |        | 2   | 9.61                     |
|                |         | 2437            | /  | /      | 1   | 10.51                    |
|                |         |                 |    |        | 2   | 10.09                    |
|                |         | 2462            | /  | /      | 1   | 10.55                    |
|                |         |                 |    |        | 2   | 10.53                    |
| 802.11n (HT20) | MIMO    | 2412            | /  | /      | 1   | 11.00                    |
|                |         |                 |    |        | 2   | 11.42                    |
|                |         | 2437            | /  | /      | 1   | 9.67                     |
|                |         |                 |    |        | 2   | 9.73                     |
|                |         | 2462            | /  | /      | 1   | 10.79                    |
|                |         |                 |    |        | 2   | 10.13                    |
| 802.11n (HT40) | MIMO    | 2422            | /  | /      | 1   | 5.44                     |
|                |         |                 |    |        | 2   | 5.10                     |
|                |         | 2437            | /  | /      | 1   | 6.08                     |
|                |         |                 |    |        | 2   | 5.84                     |
|                |         | 2452            | /  | /      | 1   | 5.73                     |
|                |         |                 |    |        | 2   | 5.75                     |



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200049702

Page: 159 of 209

|                     |      |      |       |      |   |       |
|---------------------|------|------|-------|------|---|-------|
| 802.11ax<br>(HEW20) | MIMO | 2412 | RU242 | Left | 1 | 9.82  |
|                     |      |      |       |      | 2 | 8.05  |
|                     |      | 2437 | RU242 | Left | 1 | 9.40  |
|                     |      |      |       |      | 2 | 9.92  |
|                     |      | 2462 | RU242 | Left | 1 | 10.03 |
|                     |      |      |       |      | 2 | 9.08  |
| 802.11ax<br>(HEW40) | MIMO | 2422 | RU484 | Left | 1 | 5.58  |
|                     |      |      |       |      | 2 | 5.78  |
|                     |      | 2437 | RU484 | Left | 1 | 5.21  |
|                     |      |      |       |      | 2 | 5.34  |
|                     |      | 2452 | RU484 | Left | 1 | 5.34  |
|                     |      |      |       |      | 2 | 5.87  |

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.



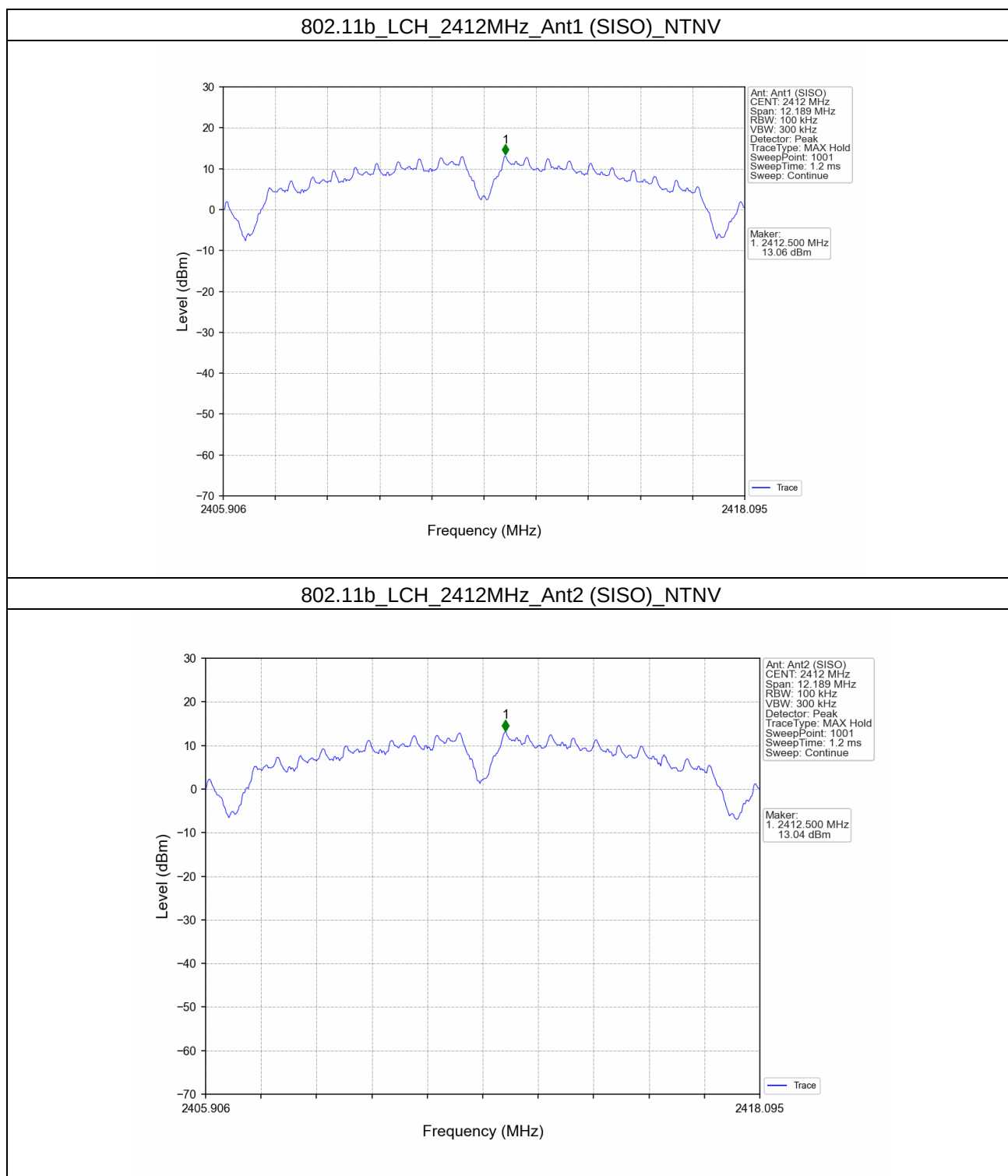
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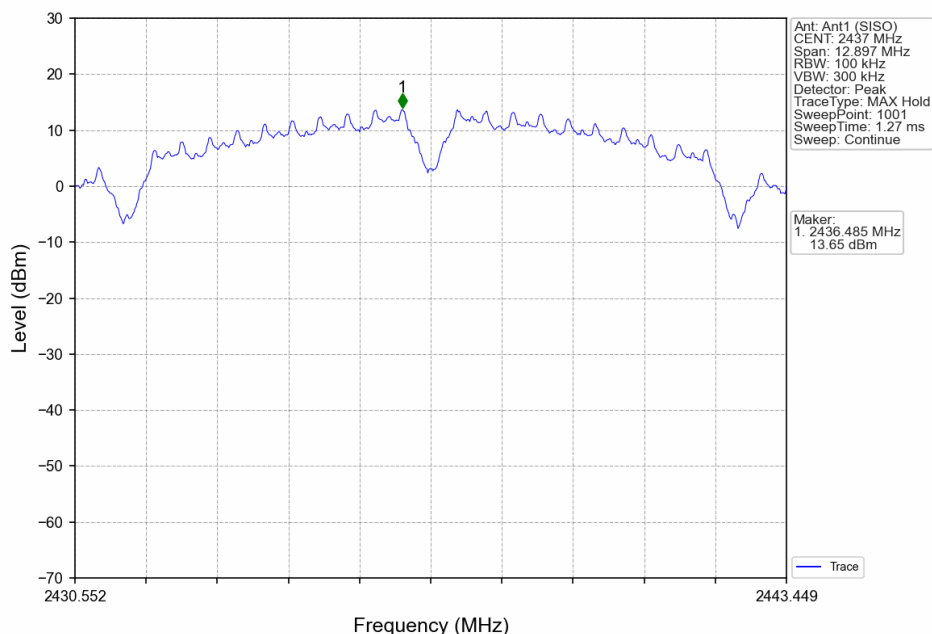
### 5.1.2 Test Graph



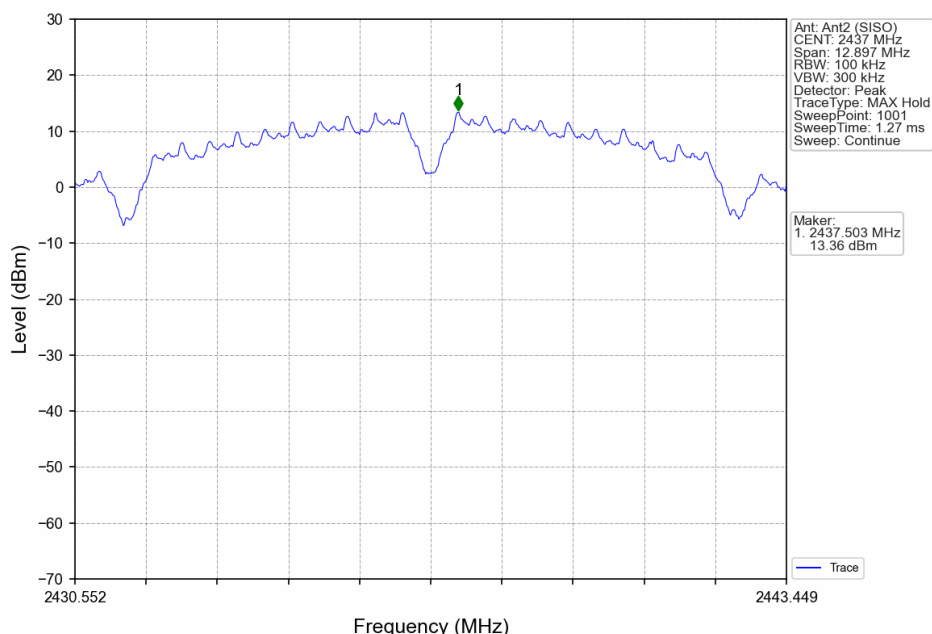
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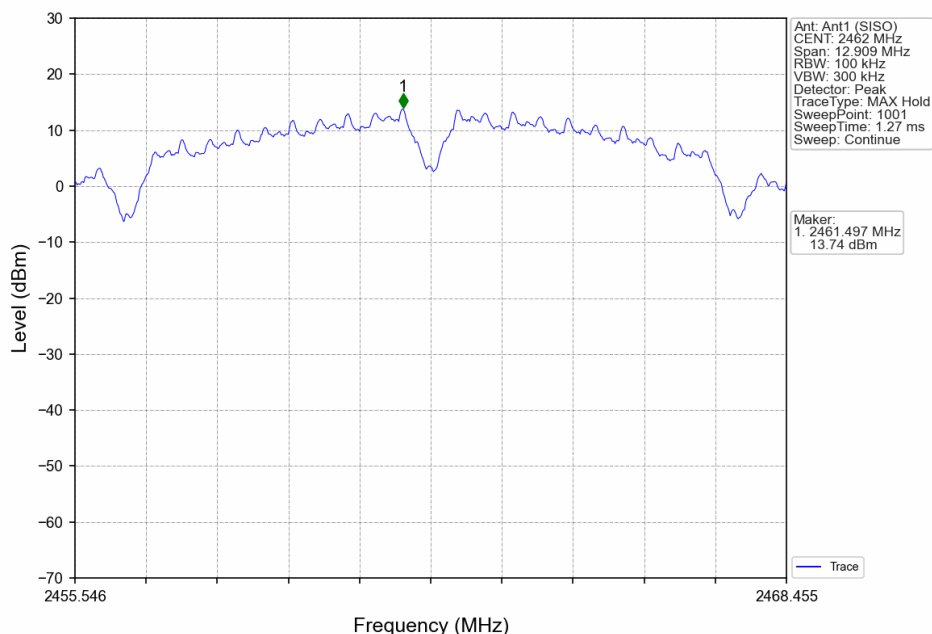
### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



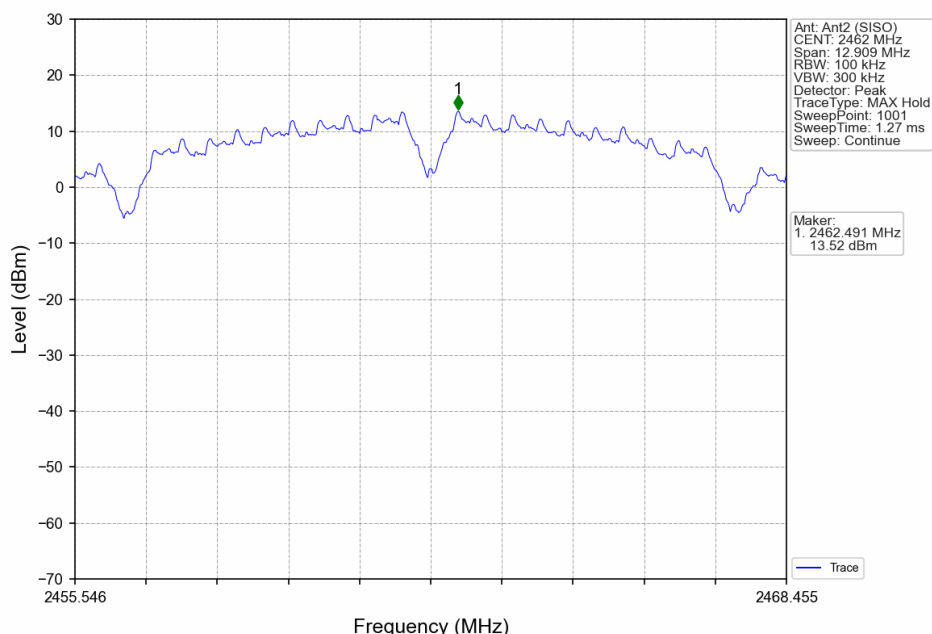
### 802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



### 802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



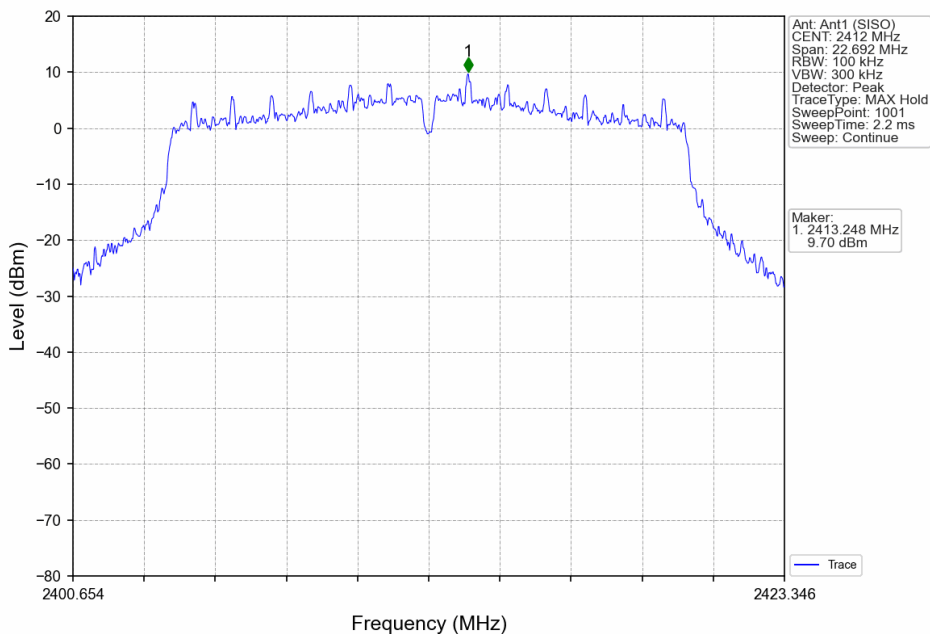
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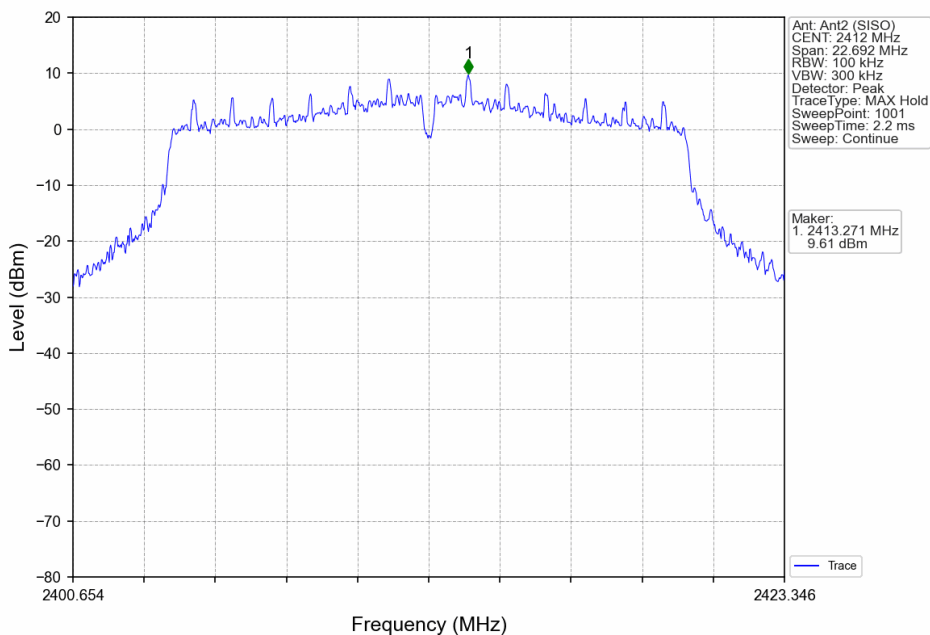
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



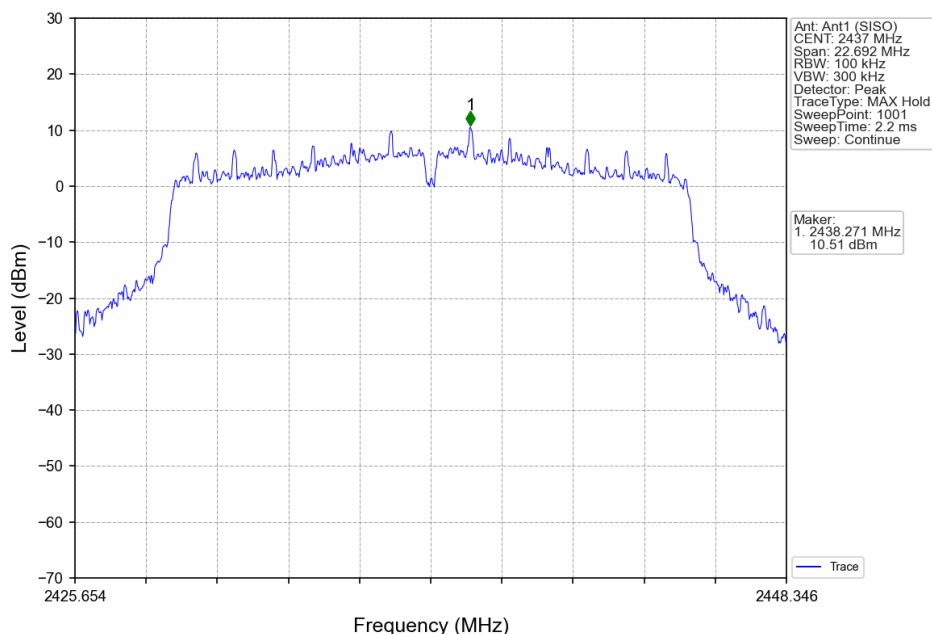
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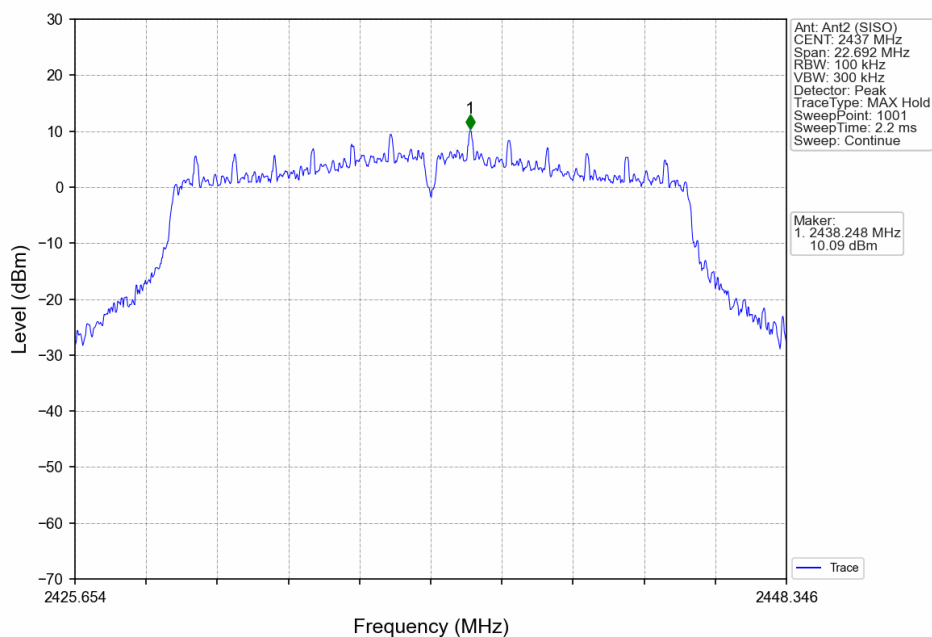
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



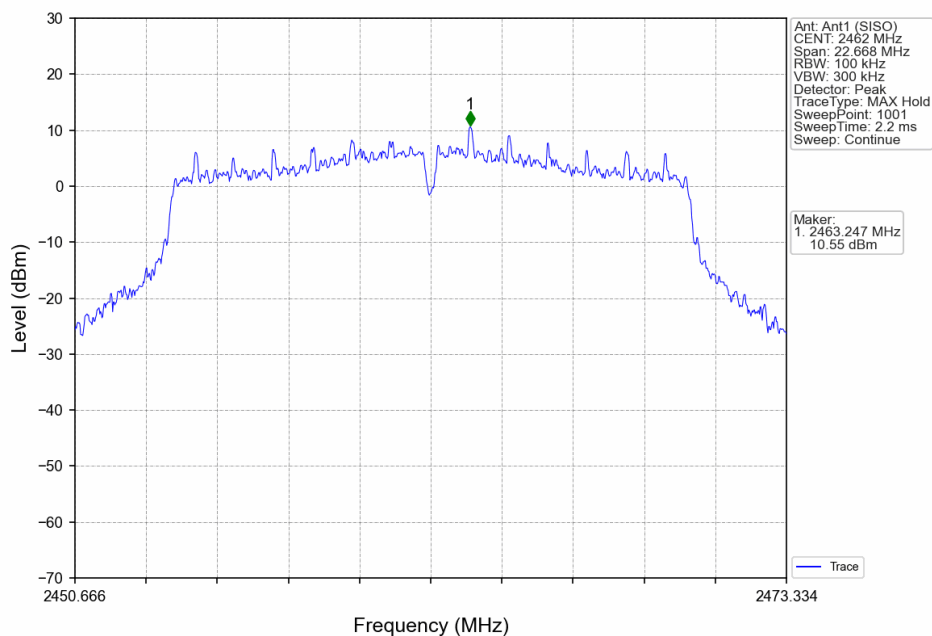
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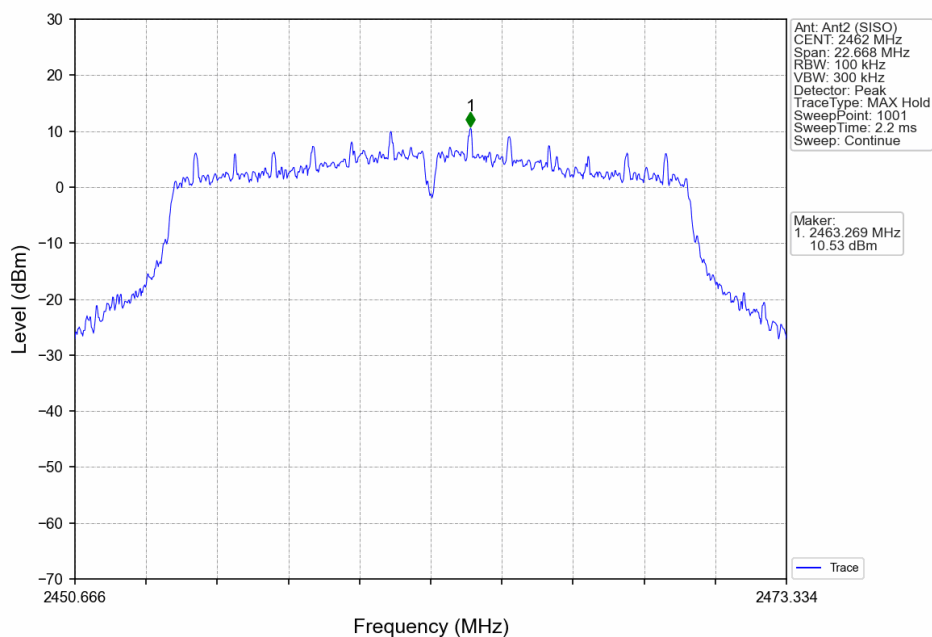
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### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



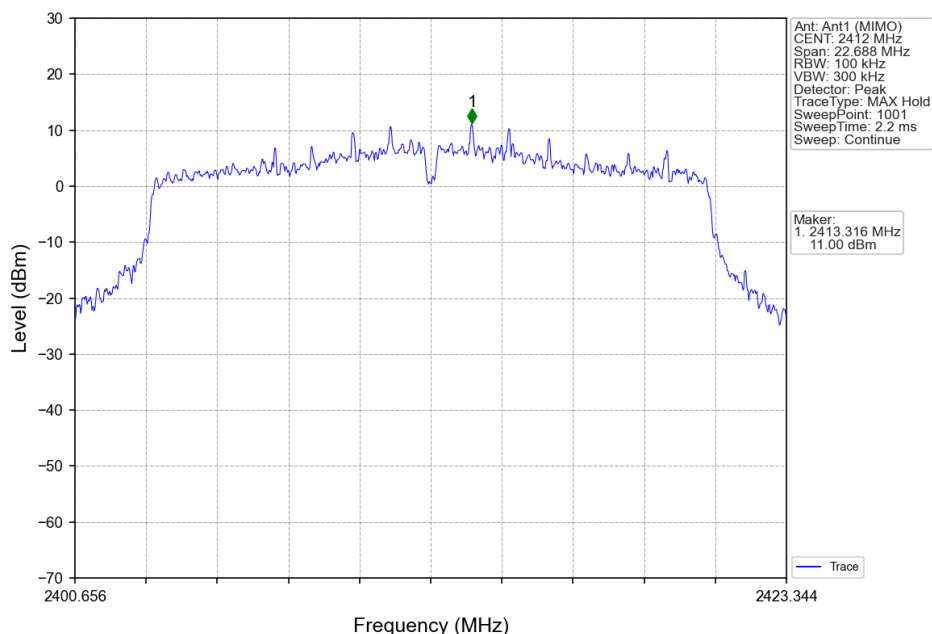
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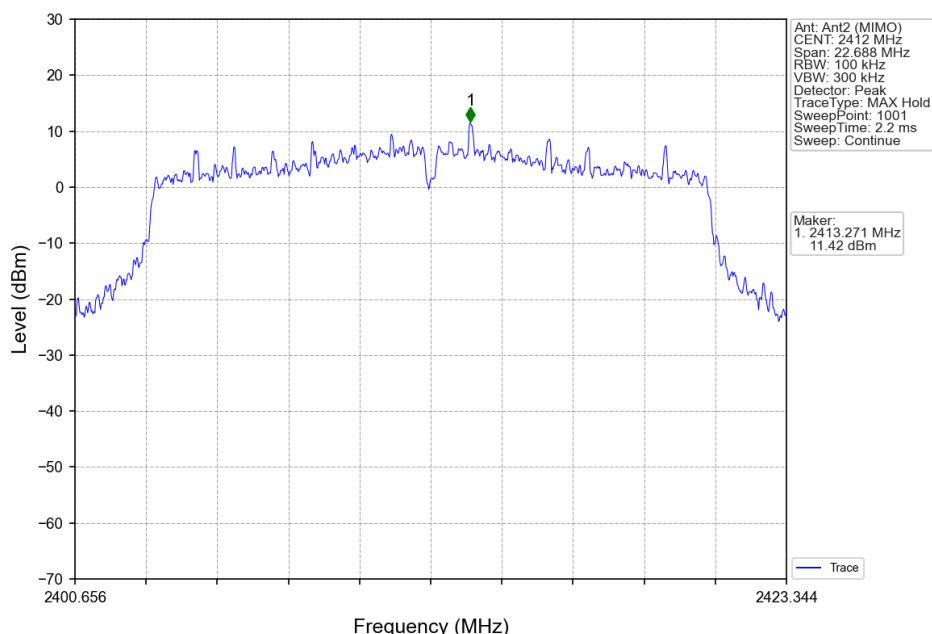
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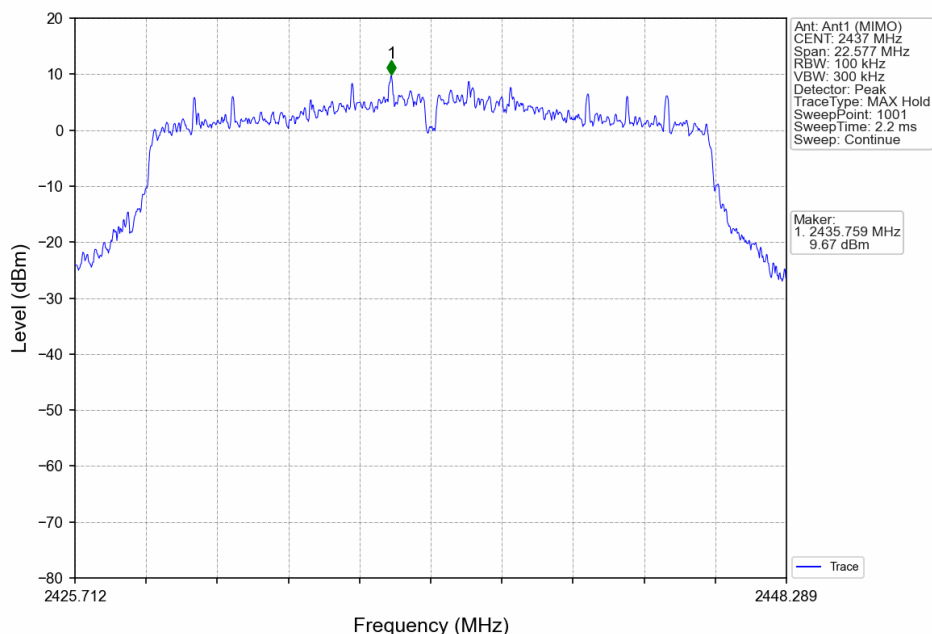
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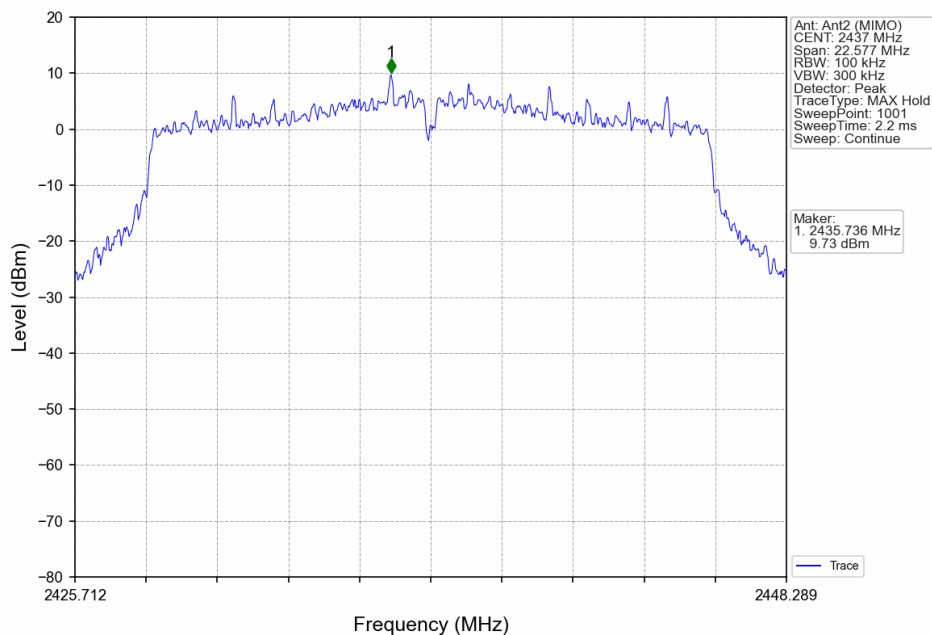
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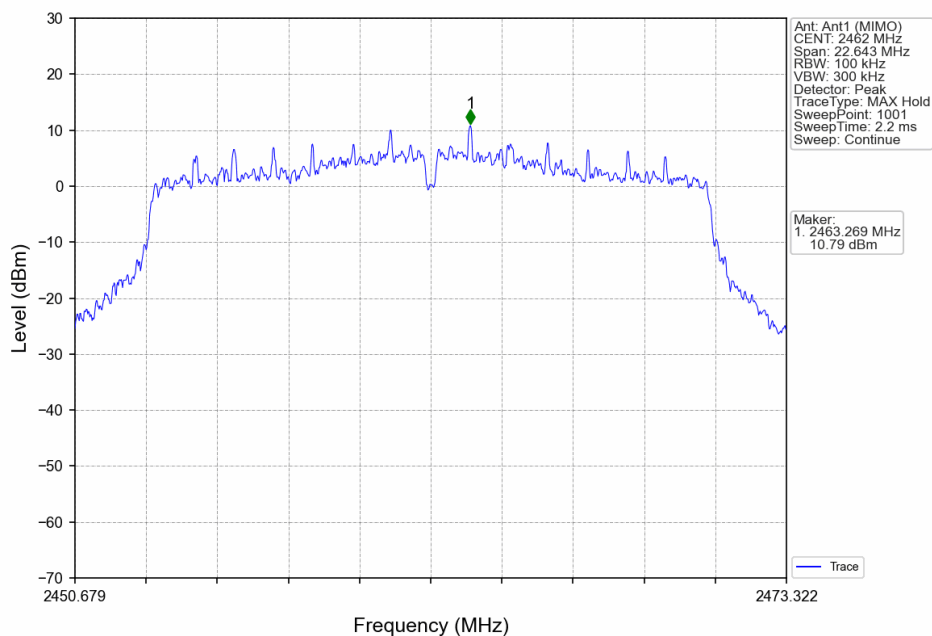
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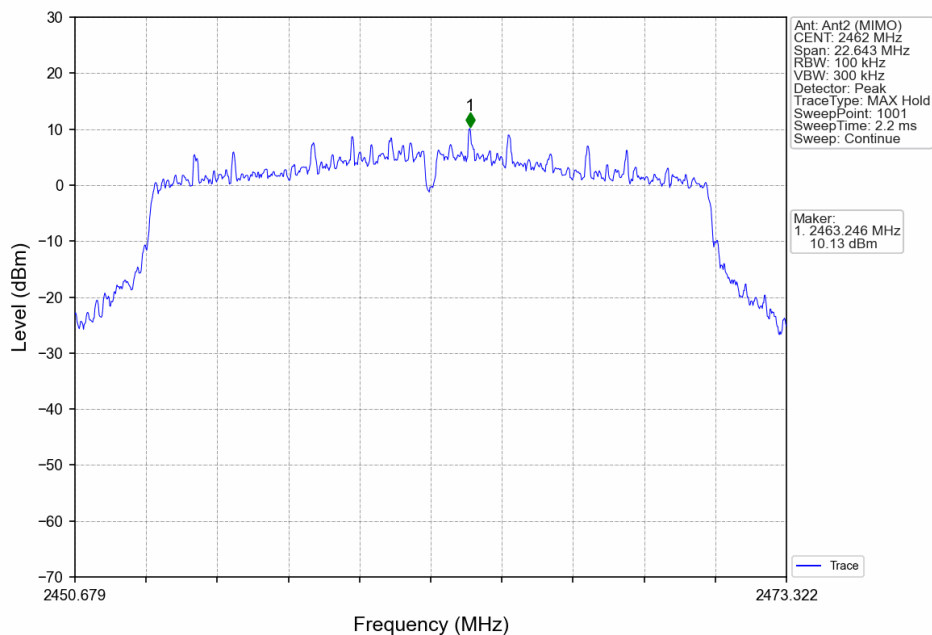
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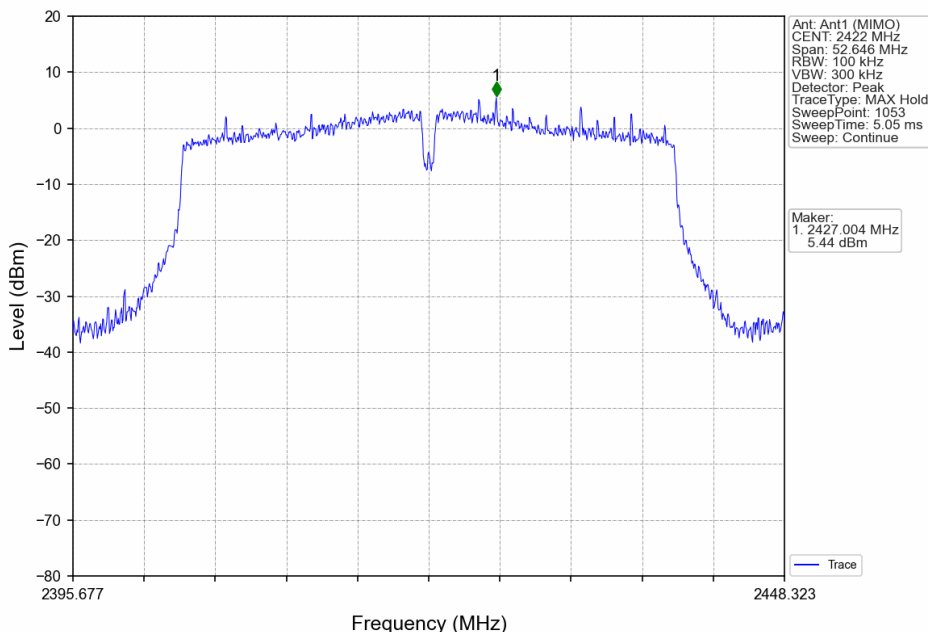
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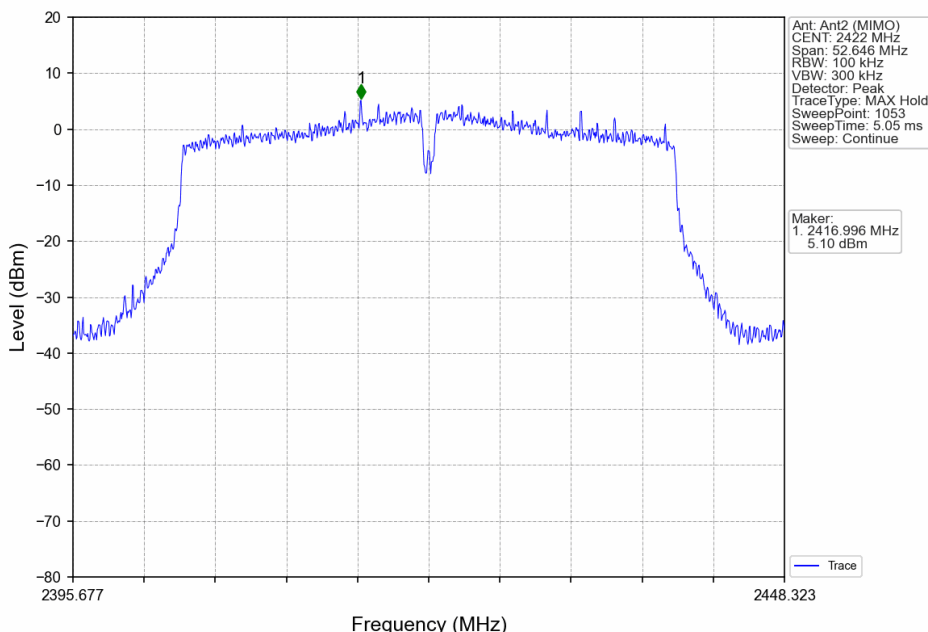
802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



### 802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



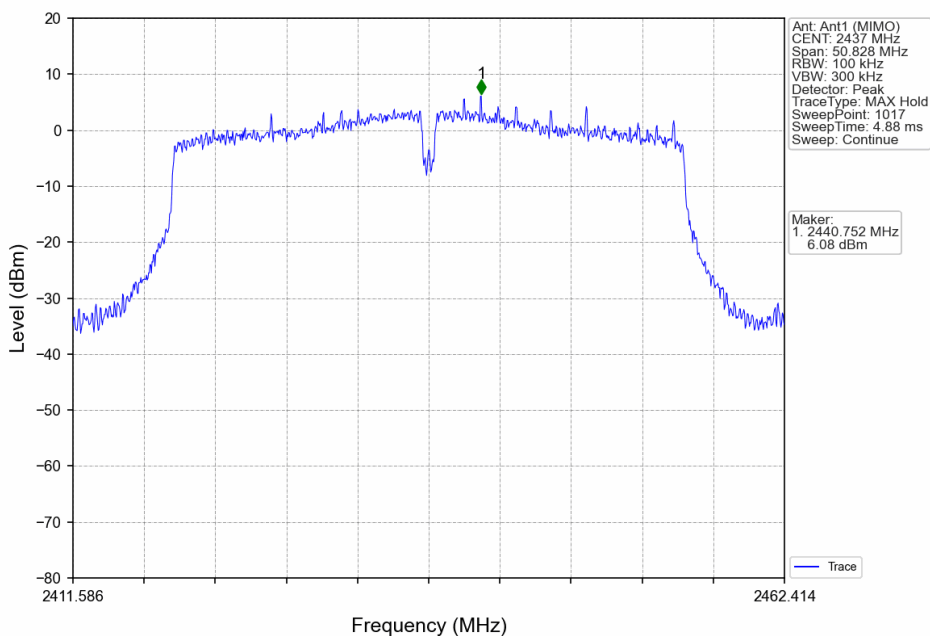
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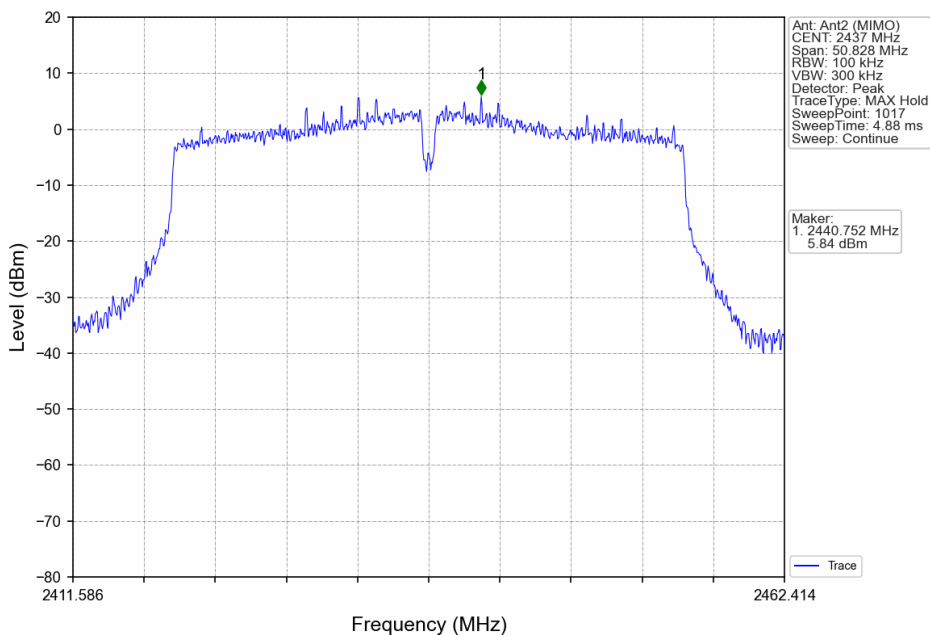
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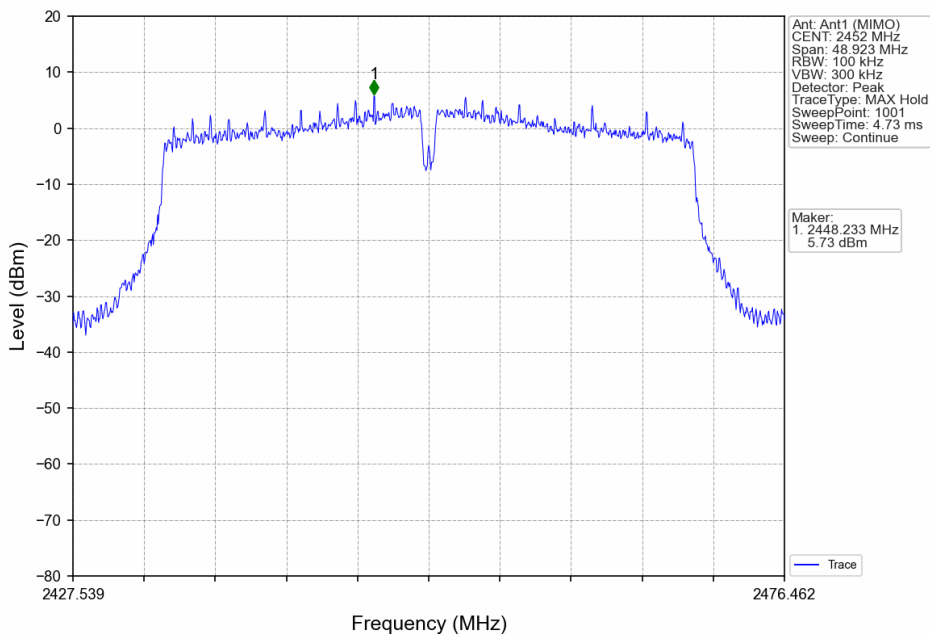
802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



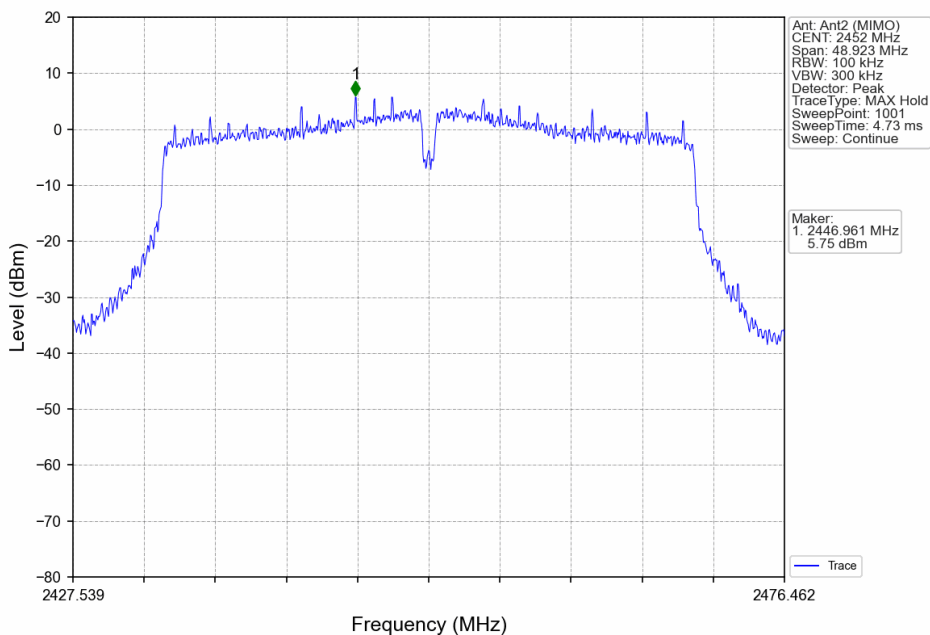
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



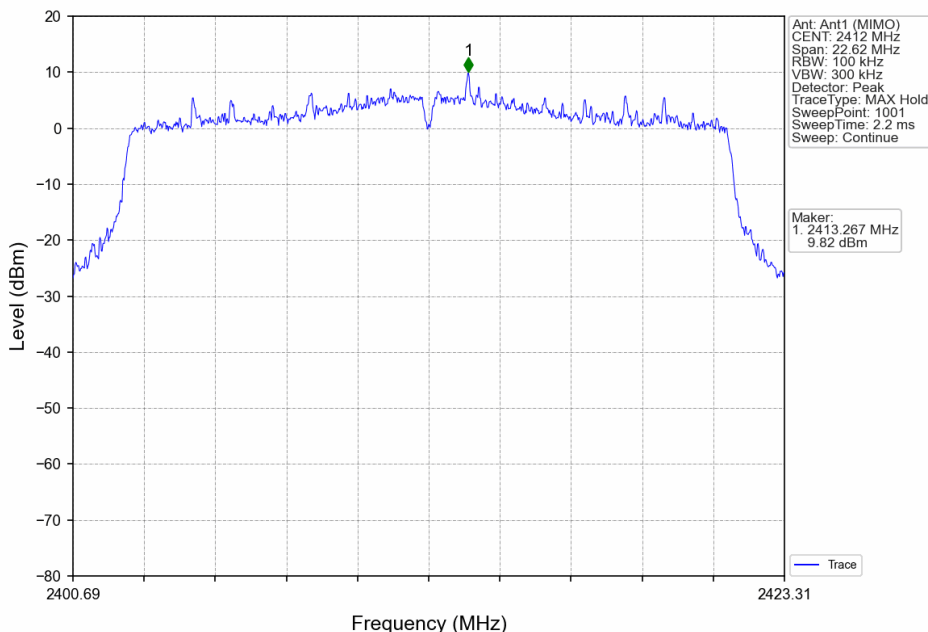
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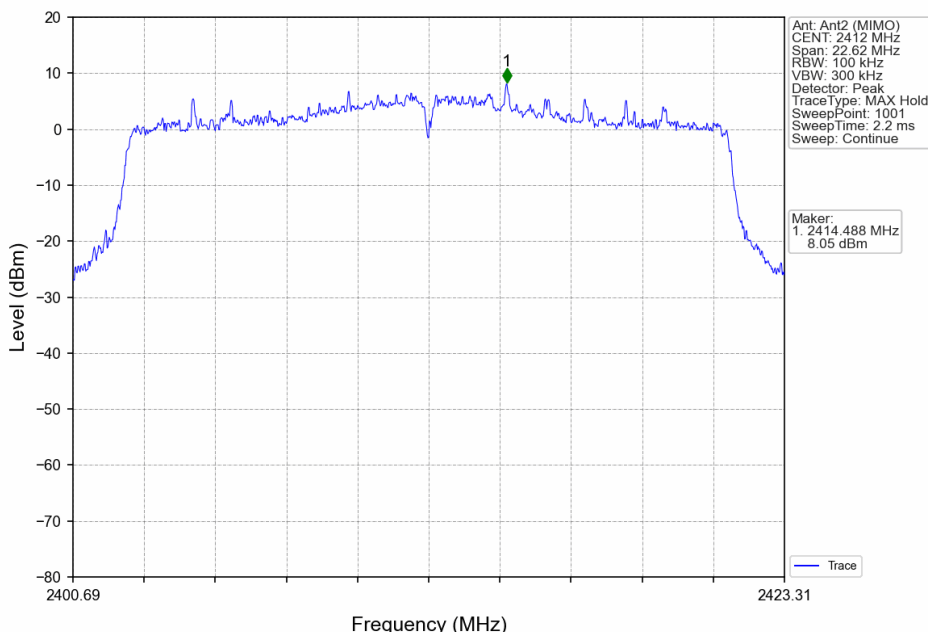
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802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV



802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant2 (MIMO)\_NTNV



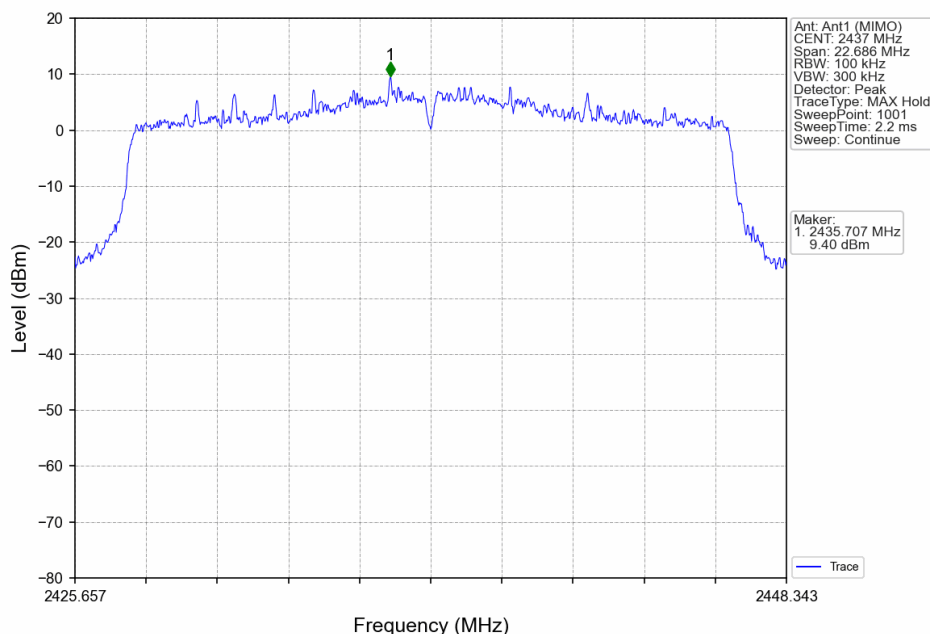
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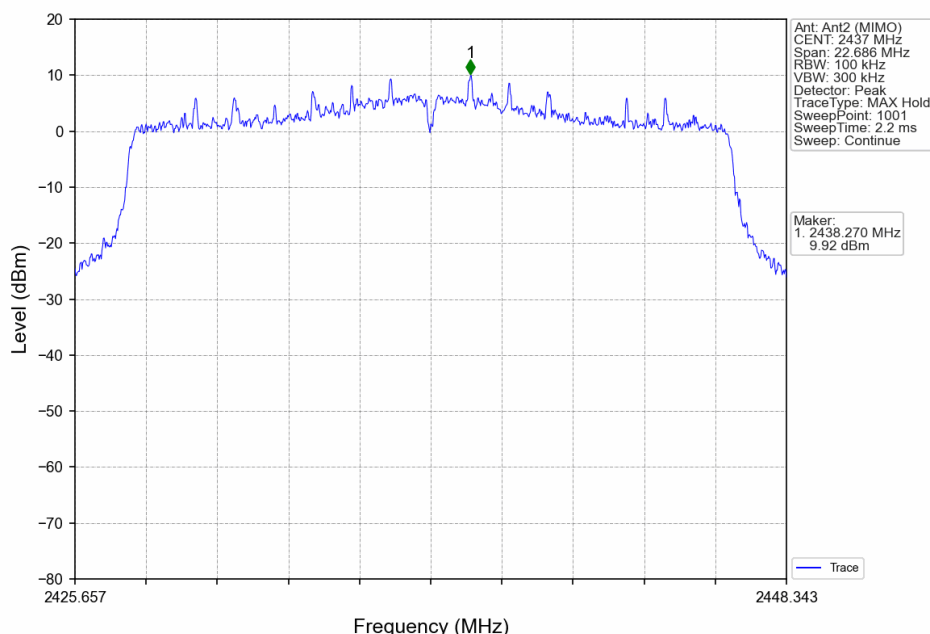
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### 802.11ax(HEW20)\_MCH\_2437MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV



### 802.11ax(HEW20)\_MCH\_2437MHz\_RU242\_Left\_Ant2 (MIMO)\_NTNV



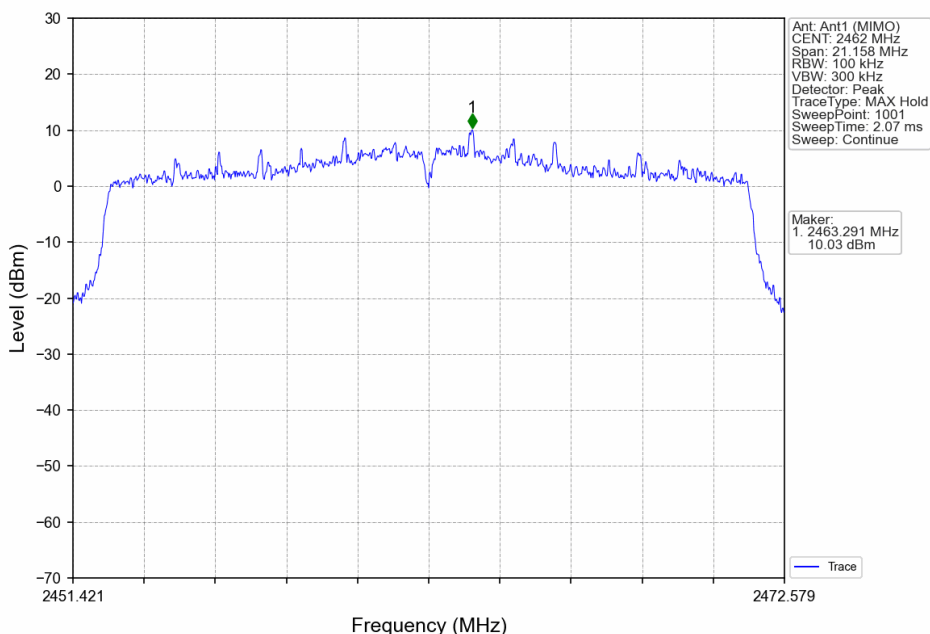
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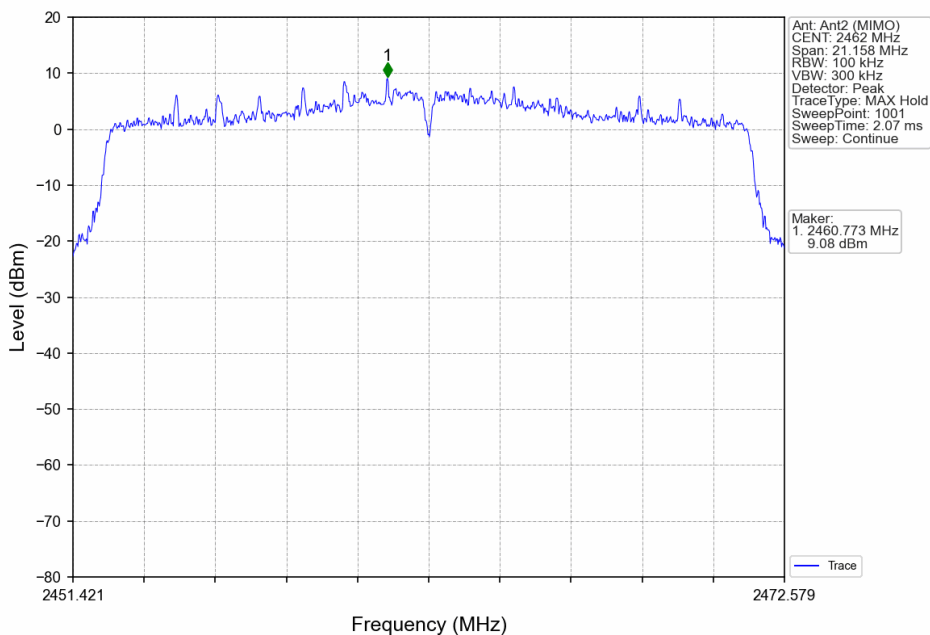
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802.11ax(HEW20)\_HCH\_2462MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV



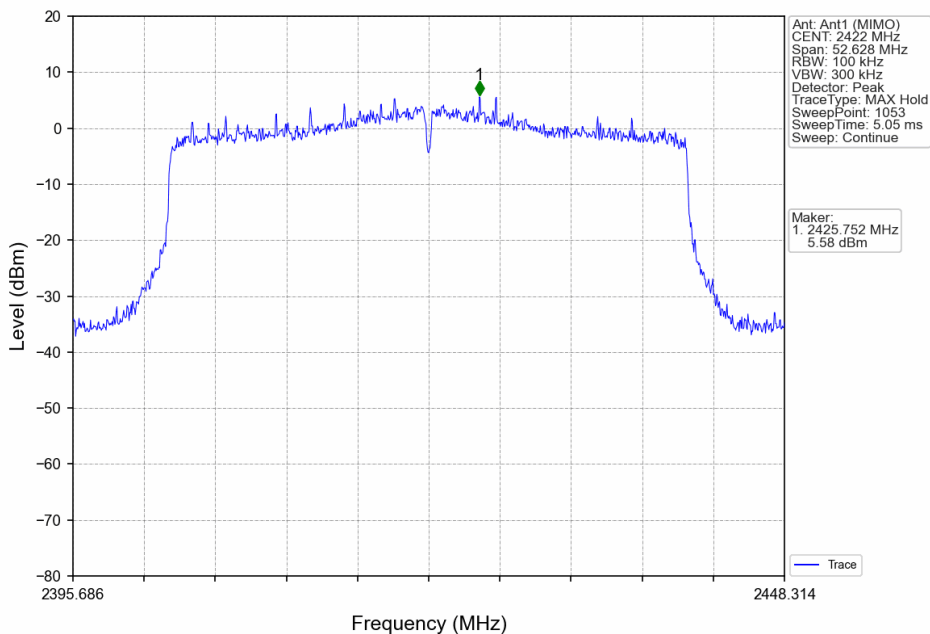
802.11ax(HEW20)\_HCH\_2462MHz\_RU242\_Left\_Ant2 (MIMO)\_NTNV



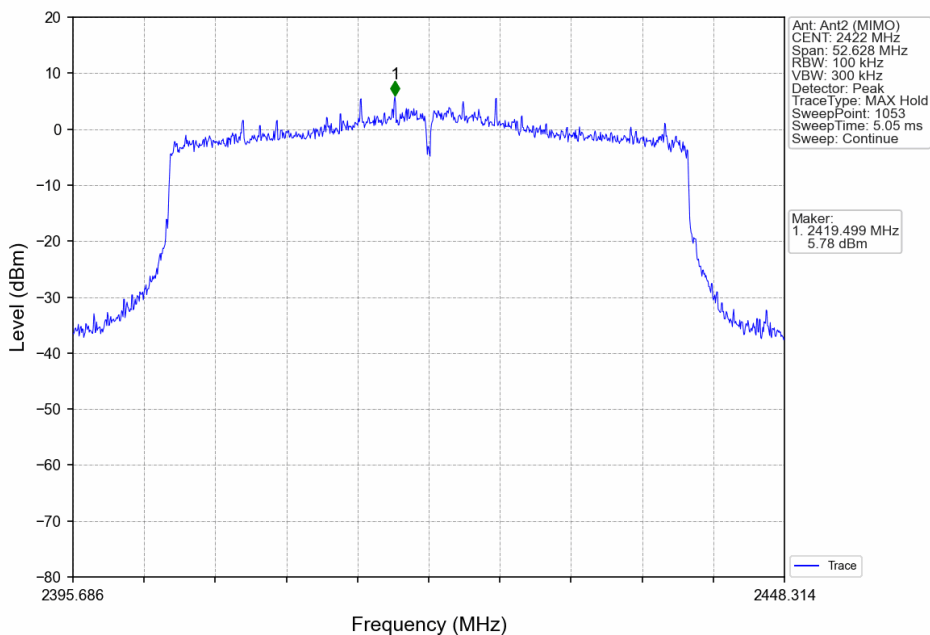
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### 802.11ax(HEW40)\_LCH\_2422MHz\_RU484\_Left\_Ant1 (MIMO)\_NTNV



### 802.11ax(HEW40)\_LCH\_2422MHz\_RU484\_Left\_Ant2 (MIMO)\_NTNV



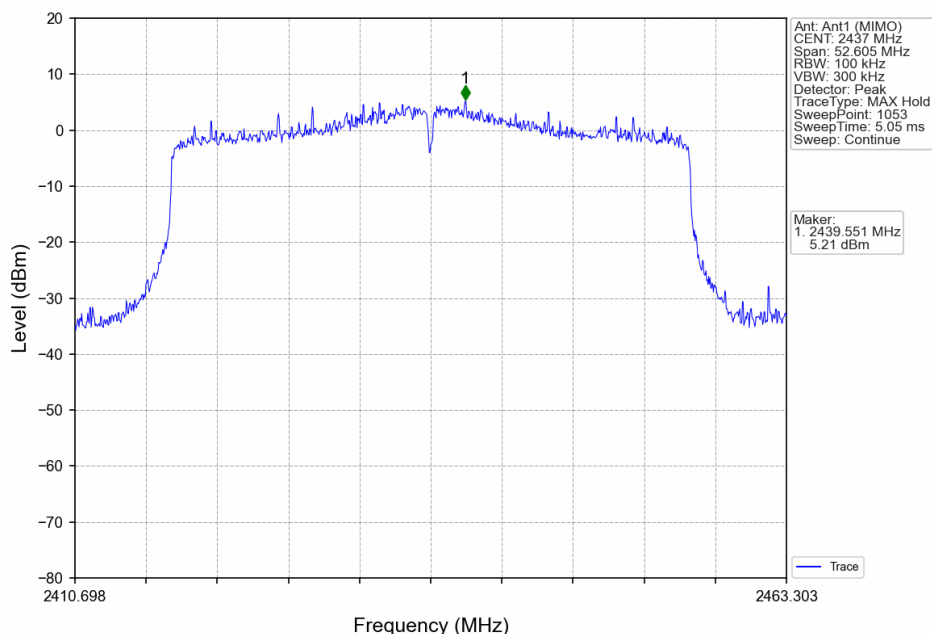
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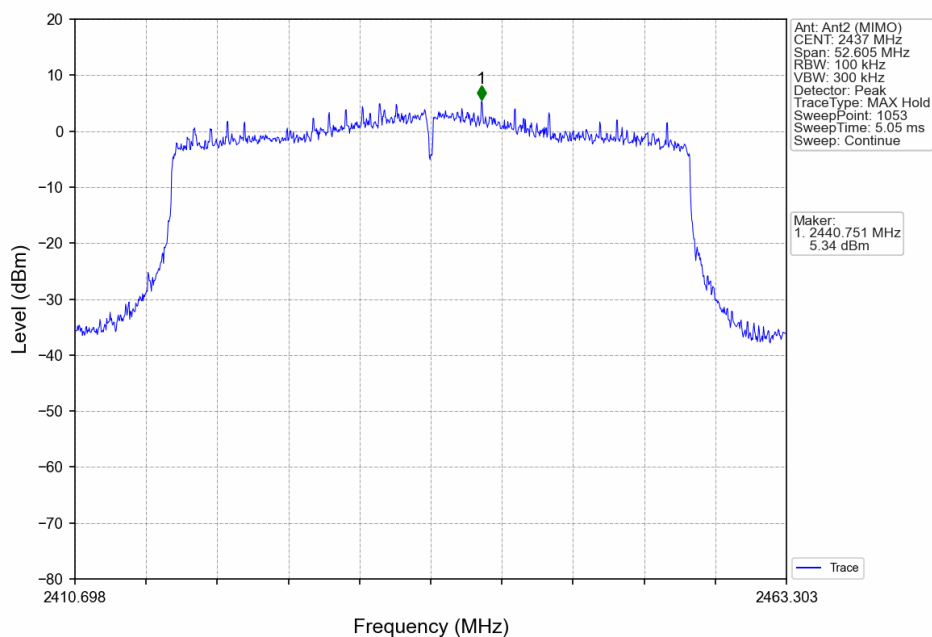
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### 802.11ax(HEW40)\_MCH\_2437MHz\_RU484\_Left\_Ant1 (MIMO)\_NTNV



### 802.11ax(HEW40)\_MCH\_2437MHz\_RU484\_Left\_Ant2 (MIMO)\_NTNV



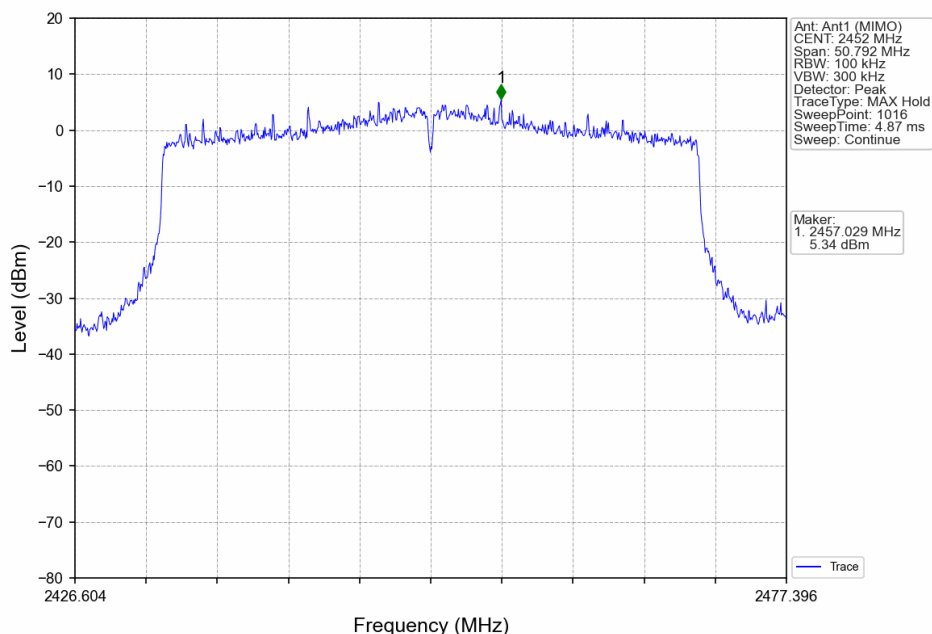
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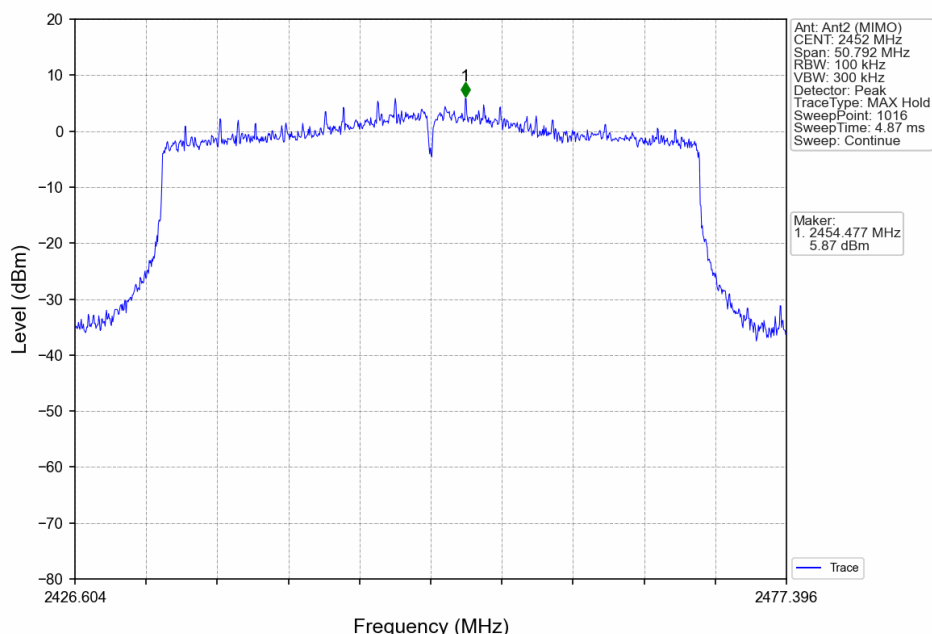
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### 802.11ax(HEW40)\_HCH\_2452MHz\_RU484\_Left\_Ant1 (MIMO)\_NTNV



### 802.11ax(HEW40)\_HCH\_2452MHz\_RU484\_Left\_Ant2 (MIMO)\_NTNV



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## 5.2 CSE

### 5.2.1 Test Result

| Mode             | TX Type | Frequency (MHz) | RU    | RU Pos | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------------------|---------|-----------------|-------|--------|-----|--------------------------|-------------|---------|
| 802.11b          | SISO    | 2412            | /     | /      | 1   | 13.74                    | -16.26      | Pass    |
|                  |         |                 |       |        | 2   | 13.52                    | -16.48      | Pass    |
|                  |         | 2437            | /     | /      | 1   | 13.74                    | -16.26      | Pass    |
|                  |         |                 |       |        | 2   | 13.52                    | -16.48      | Pass    |
|                  |         | 2462            | /     | /      | 1   | 13.74                    | -16.26      | Pass    |
|                  |         |                 |       |        | 2   | 13.52                    | -16.48      | Pass    |
| 802.11g          | SISO    | 2412            | /     | /      | 1   | 10.55                    | -19.45      | Pass    |
|                  |         |                 |       |        | 2   | 10.53                    | -19.47      | Pass    |
|                  |         | 2437            | /     | /      | 1   | 10.55                    | -19.45      | Pass    |
|                  |         |                 |       |        | 2   | 10.53                    | -19.47      | Pass    |
|                  |         | 2462            | /     | /      | 1   | 10.55                    | -19.45      | Pass    |
|                  |         |                 |       |        | 2   | 10.53                    | -19.47      | Pass    |
| 802.11n (HT20)   | MIMO    | 2412            | /     | /      | 1   | 11.00                    | -19.00      | Pass    |
|                  |         |                 |       |        | 2   | 11.42                    | -18.58      | Pass    |
|                  |         | 2437            | /     | /      | 1   | 11.00                    | -19.00      | Pass    |
|                  |         |                 |       |        | 2   | 11.42                    | -18.58      | Pass    |
|                  |         | 2462            | /     | /      | 1   | 11.00                    | -19.00      | Pass    |
|                  |         |                 |       |        | 2   | 11.42                    | -18.58      | Pass    |
| 802.11n (HT40)   | MIMO    | 2422            | /     | /      | 1   | 6.08                     | -23.92      | Pass    |
|                  |         |                 |       |        | 2   | 5.84                     | -24.16      | Pass    |
|                  |         | 2437            | /     | /      | 1   | 6.08                     | -23.92      | Pass    |
|                  |         |                 |       |        | 2   | 5.84                     | -24.16      | Pass    |
|                  |         | 2452            | /     | /      | 1   | 6.08                     | -23.92      | Pass    |
|                  |         |                 |       |        | 2   | 5.84                     | -24.16      | Pass    |
| 802.11ax (HEW20) | MIMO    | 2412            | RU242 | Left   | 1   | 10.03                    | -19.97      | Pass    |
|                  |         |                 |       |        | 2   | 9.92                     | -20.08      | Pass    |
|                  |         | 2437            | RU242 | Left   | 1   | 10.03                    | -19.97      | Pass    |
|                  |         |                 |       |        | 2   | 9.92                     | -20.08      | Pass    |
|                  |         | 2462            | RU242 | Left   | 1   | 10.03                    | -19.97      | Pass    |
|                  |         |                 |       |        | 2   | 9.92                     | -20.08      | Pass    |
| 802.11ax (HEW40) | MIMO    | 2422            | RU484 | Left   | 1   | 5.58                     | -24.42      | Pass    |
|                  |         |                 |       |        | 2   | 5.87                     | -24.13      | Pass    |
|                  |         | 2437            | RU484 | Left   | 1   | 5.58                     | -24.42      | Pass    |
|                  |         |                 |       |        | 2   | 5.87                     | -24.13      | Pass    |



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200049702

Page: 179 of 209

|                                                                                                                                                 |  |      |       |      |   |      |        |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--|------|-------|------|---|------|--------|------|
|                                                                                                                                                 |  | 2452 | RU484 | Left | 1 | 5.58 | -24.42 | Pass |
|                                                                                                                                                 |  |      |       |      | 2 | 5.87 | -24.13 | 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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