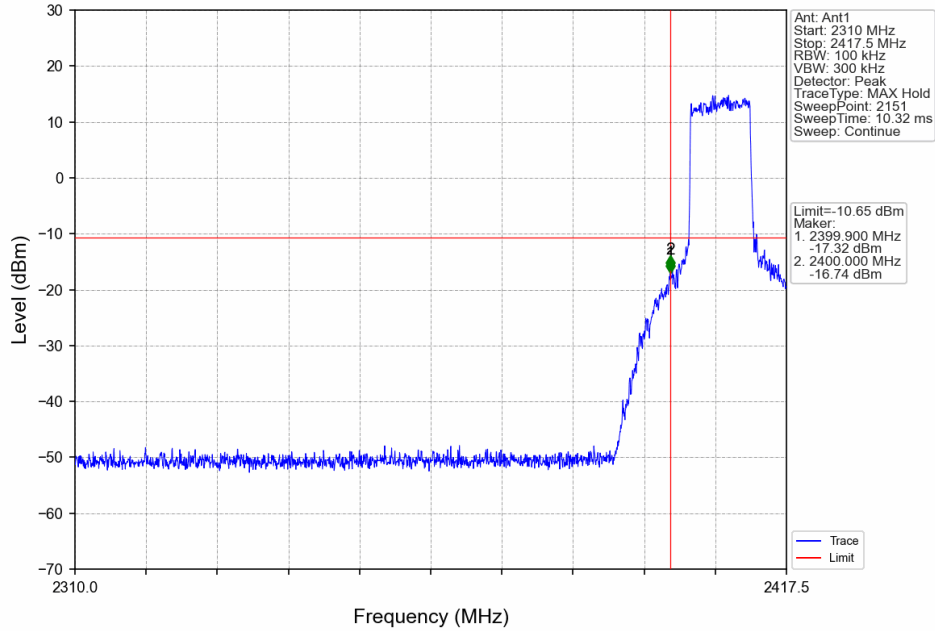
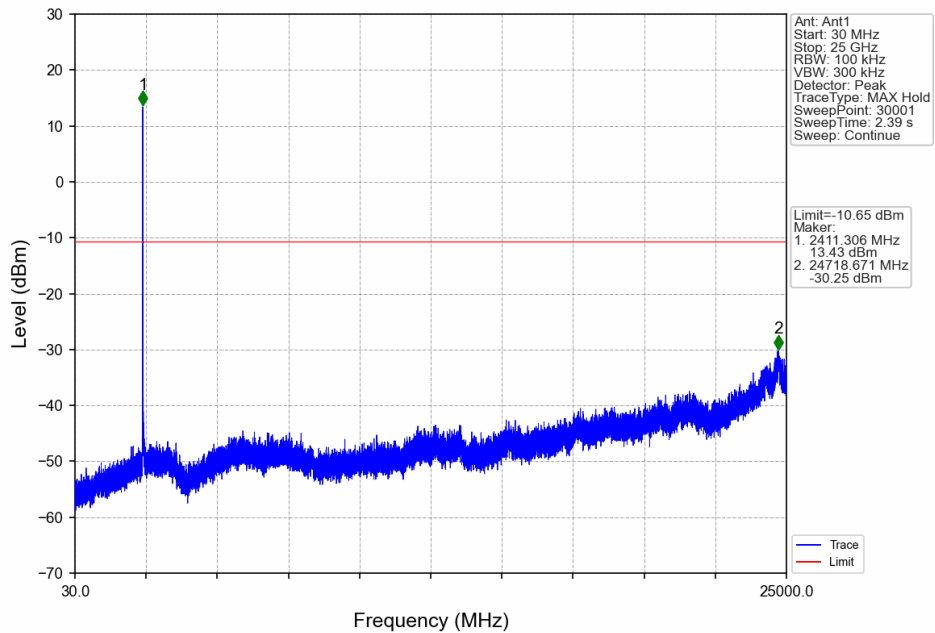


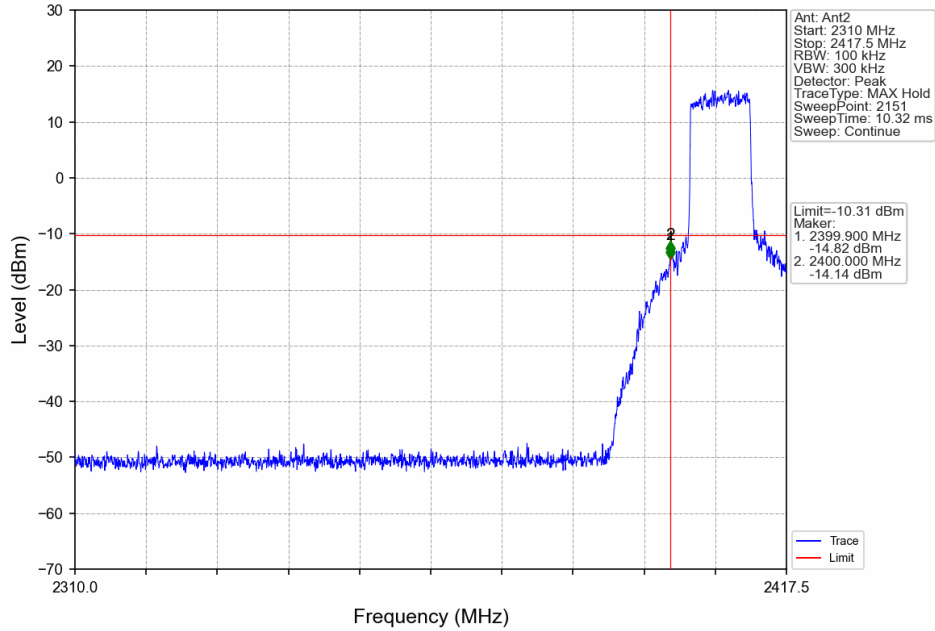
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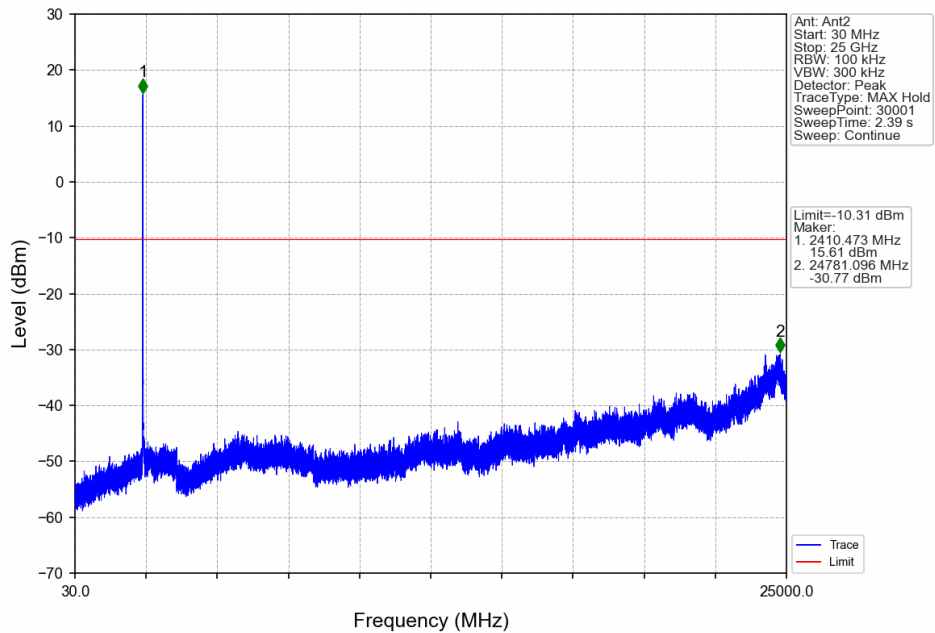
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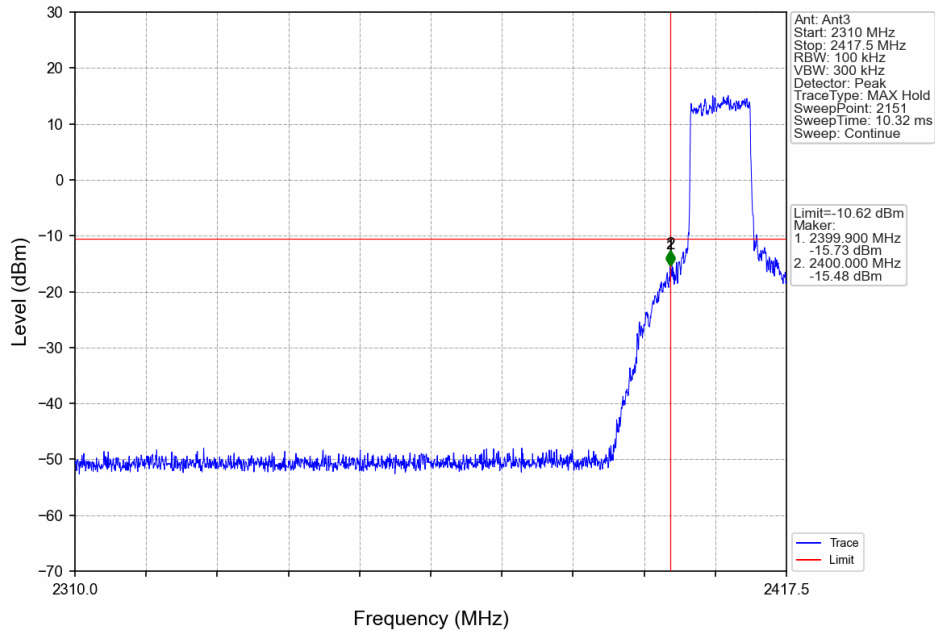
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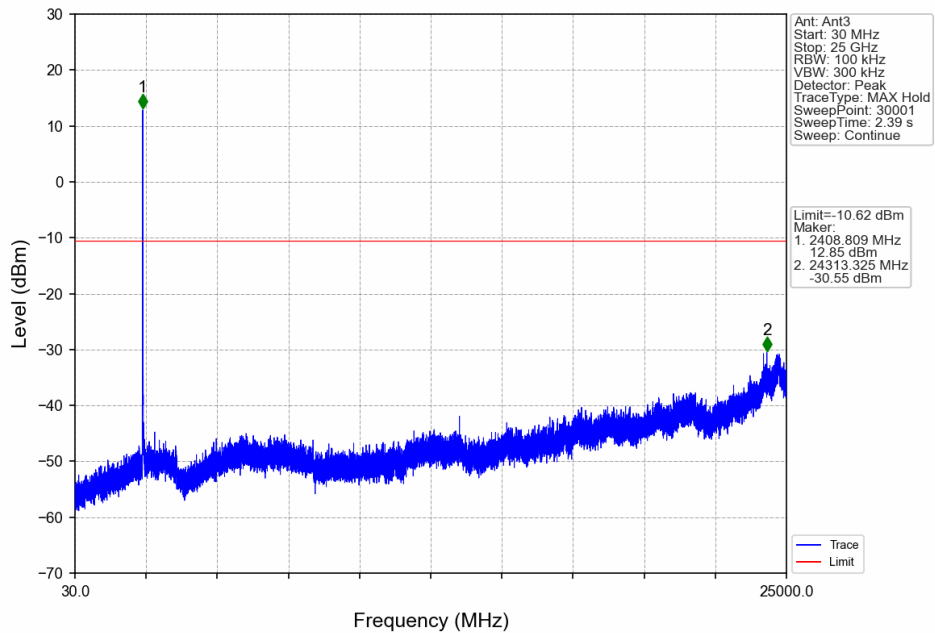
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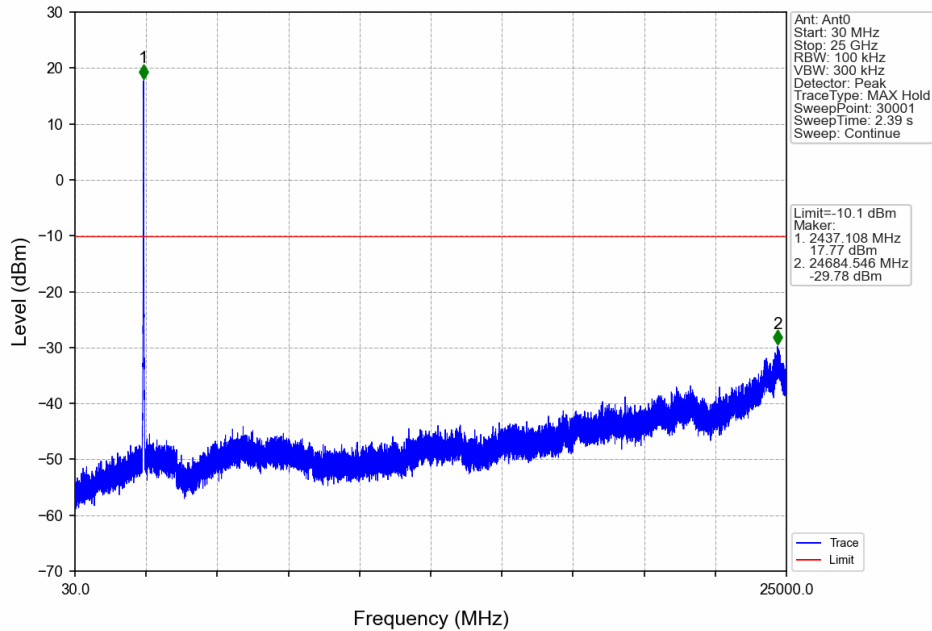
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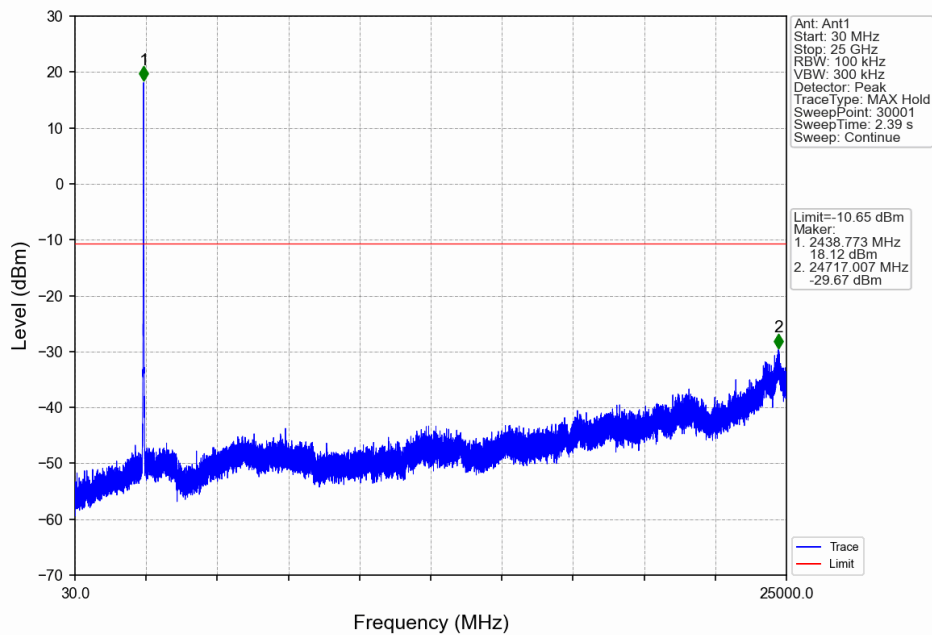
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10M\_MCH\_2437.5MHz\_Ant0\_NTNV

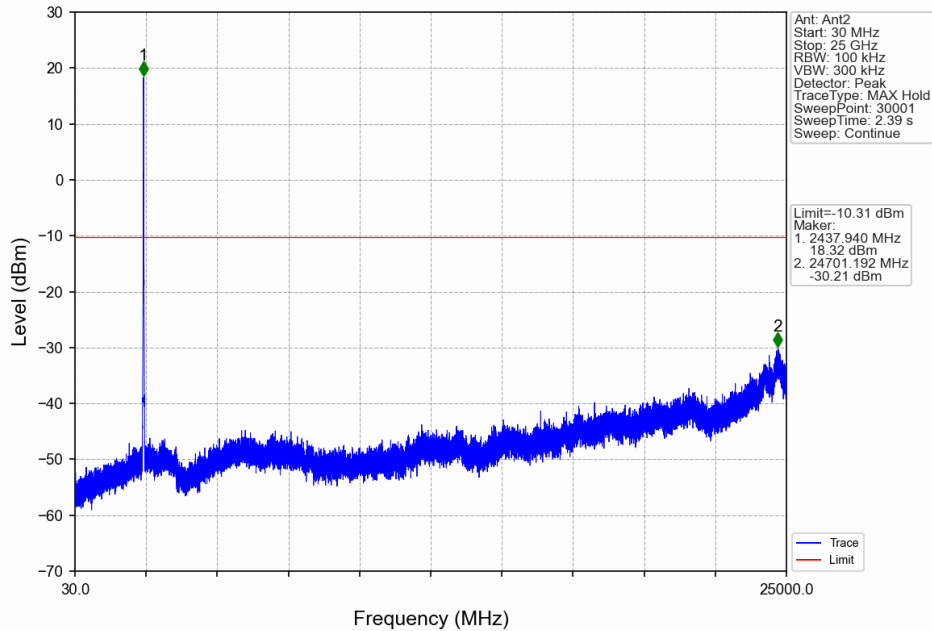


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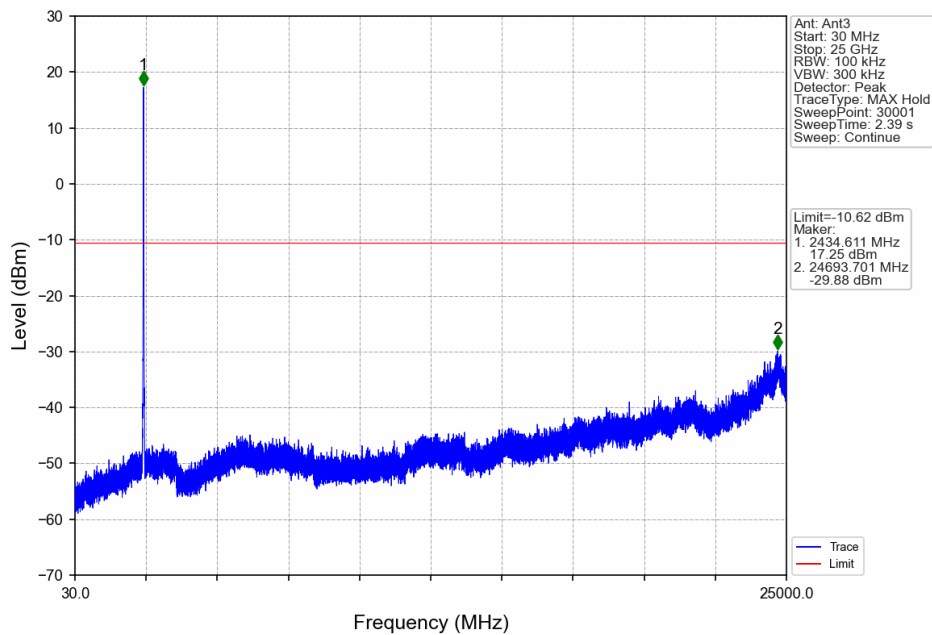




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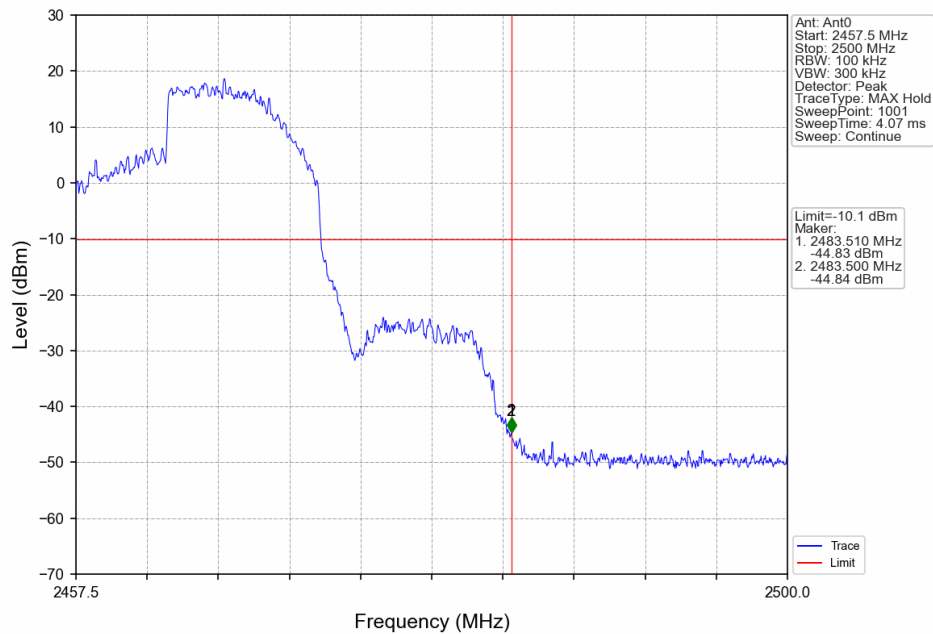


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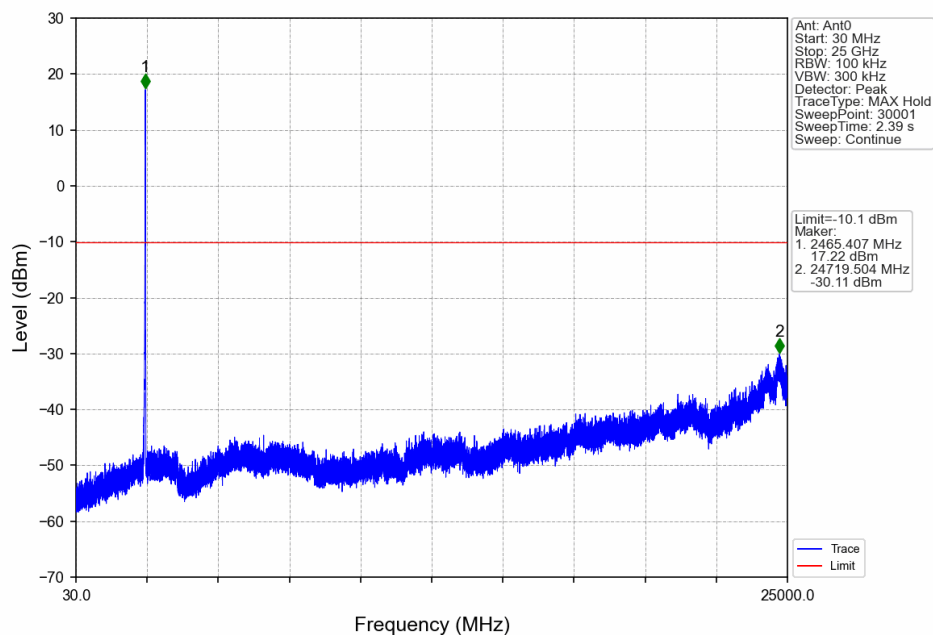
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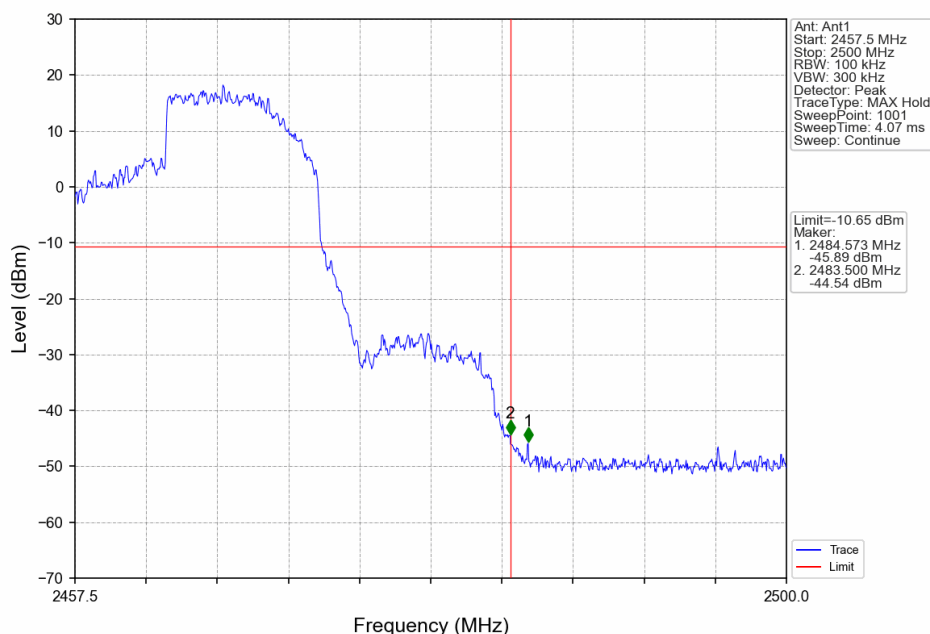
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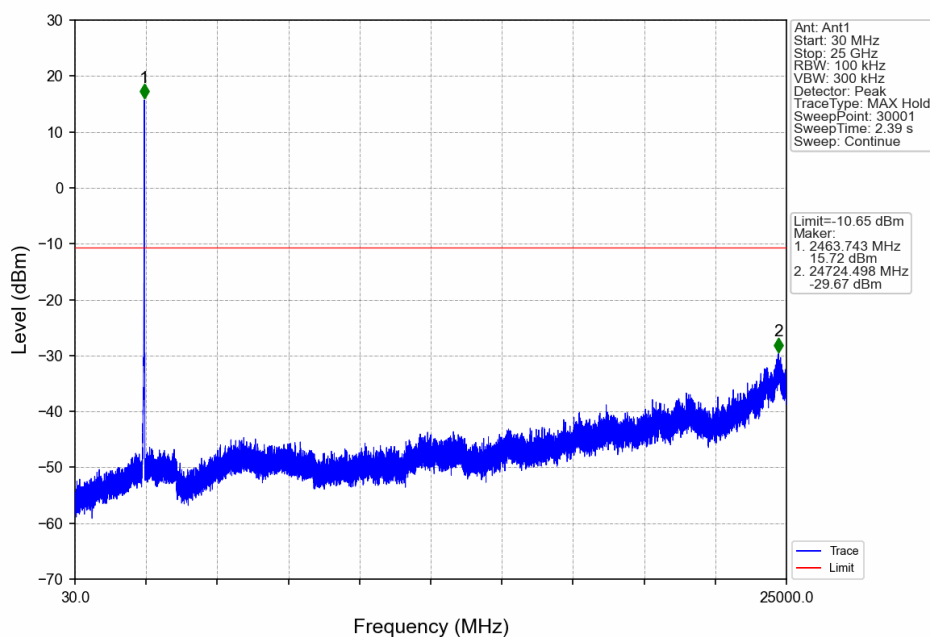
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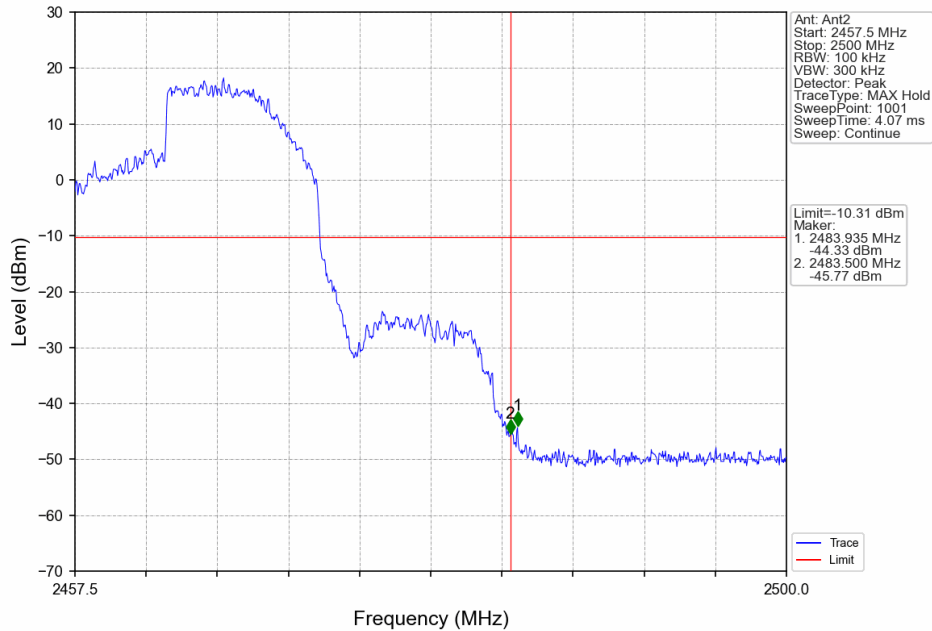
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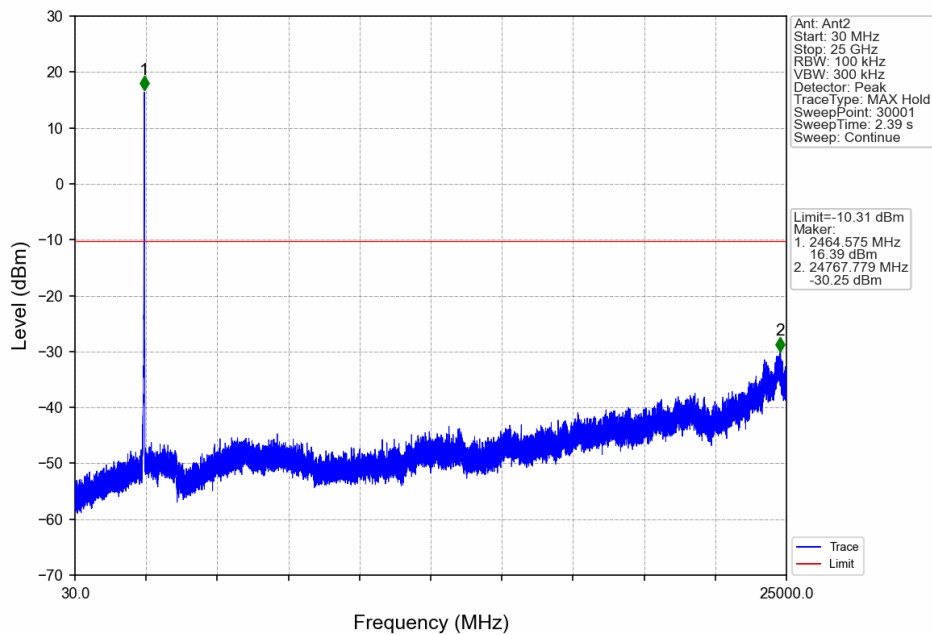
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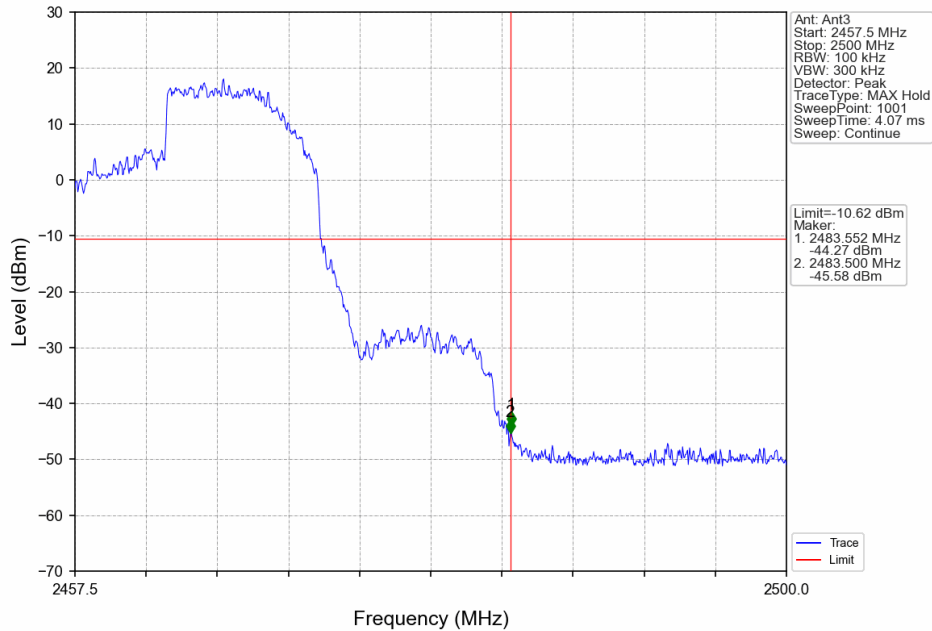


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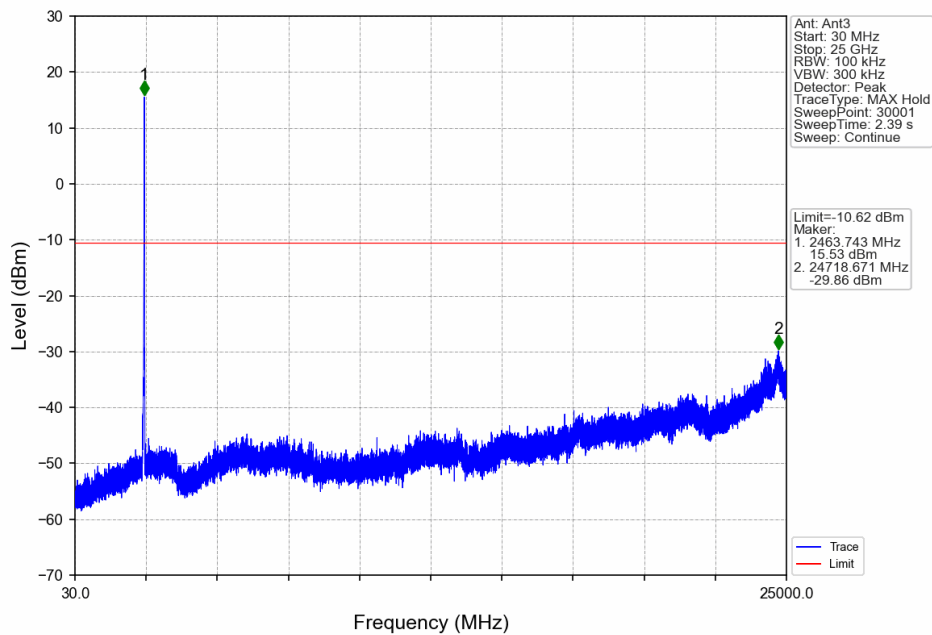




10M\_HCH\_2467.5MHz\_Ant3\_NTNV



10M\_HCH\_2467.5MHz\_Ant3\_NTNV



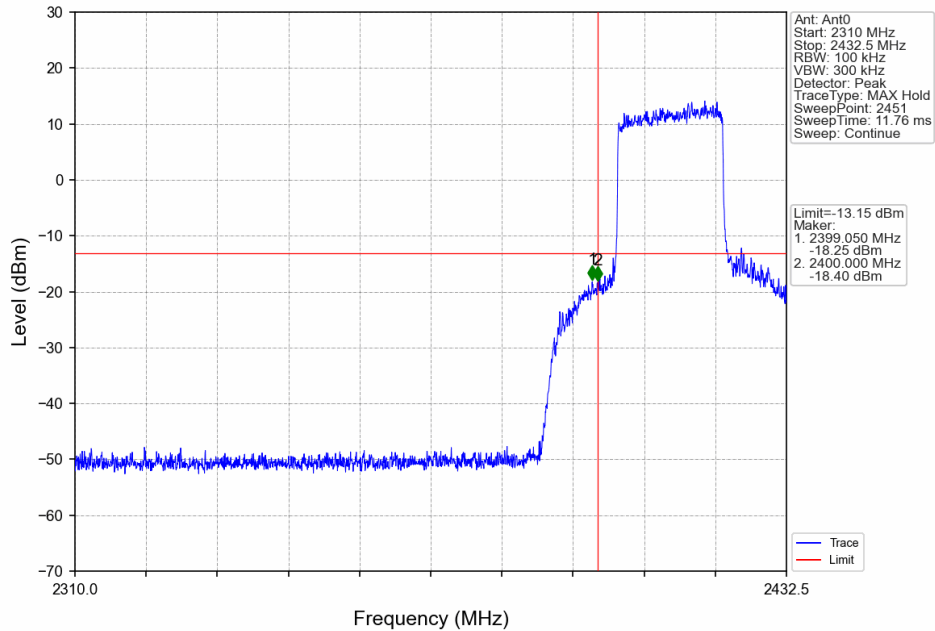
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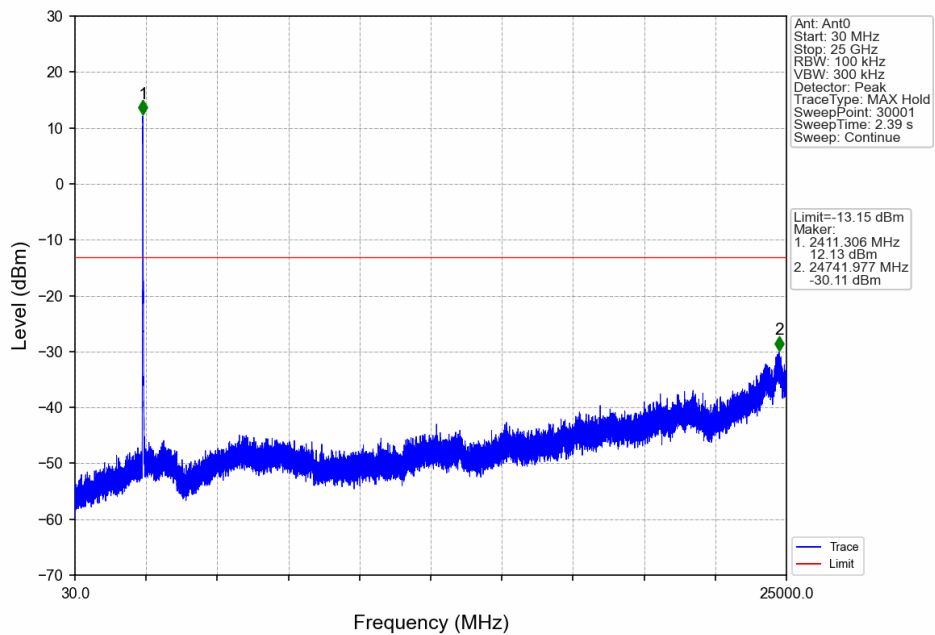
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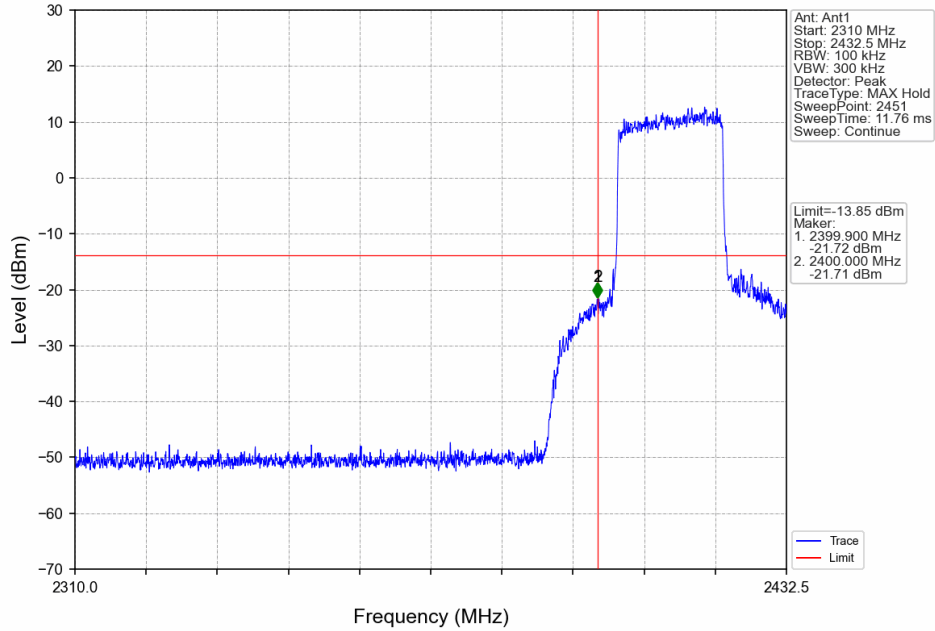
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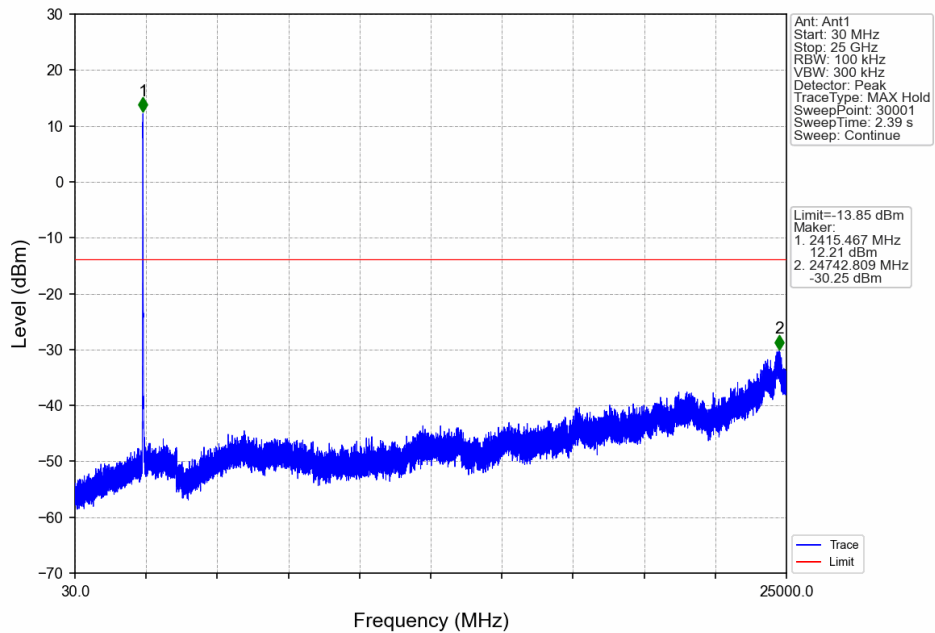
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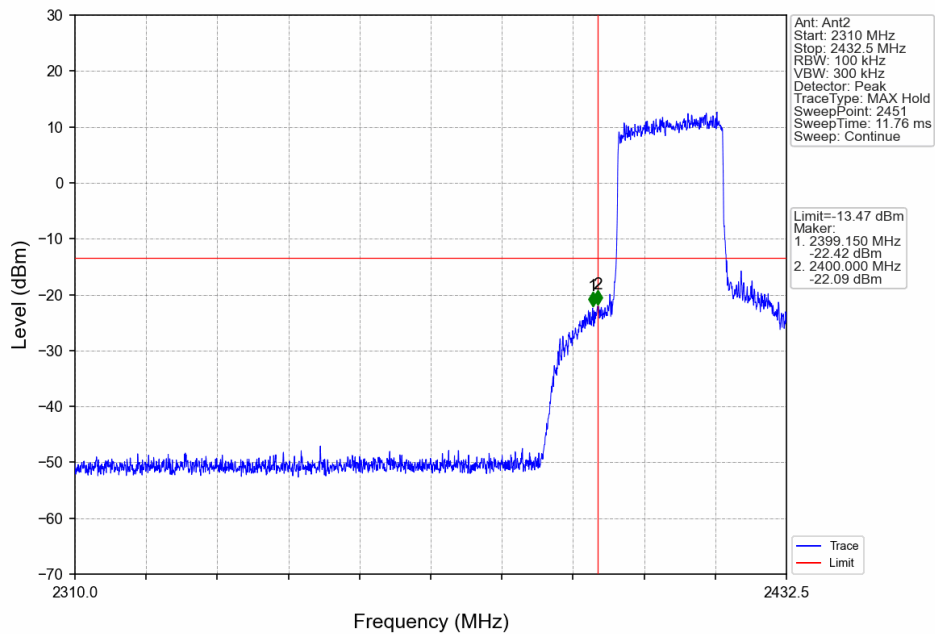
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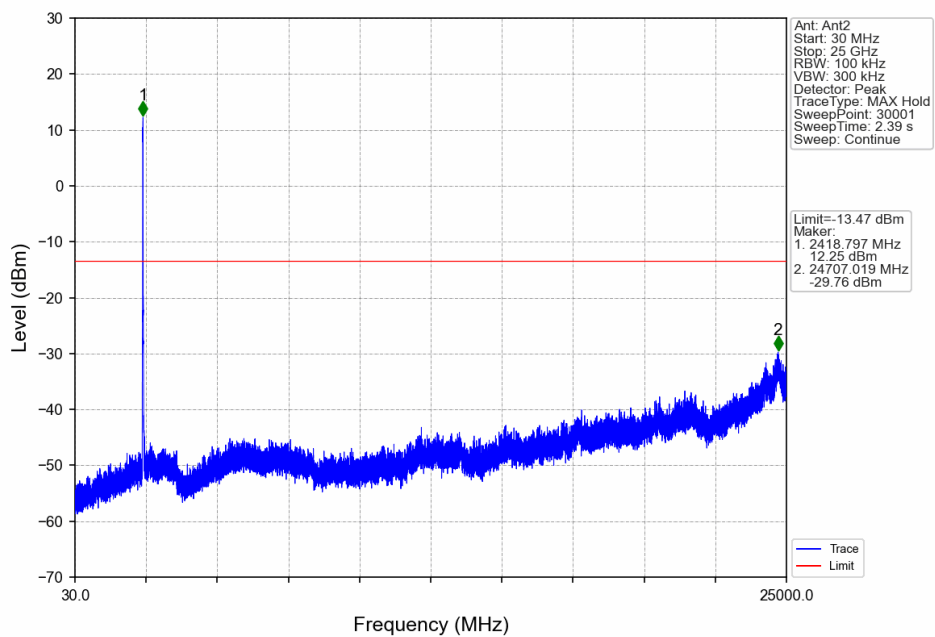
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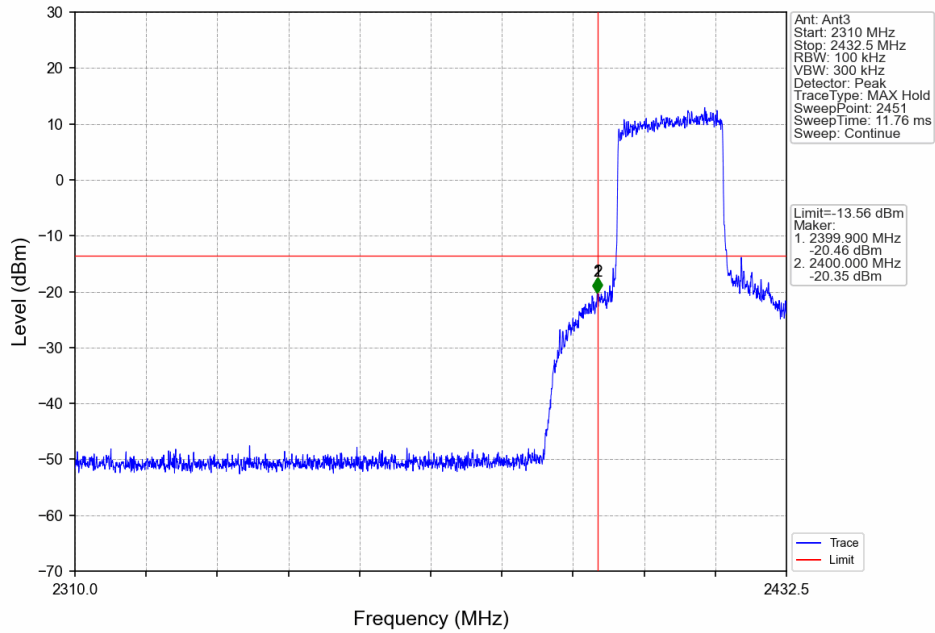


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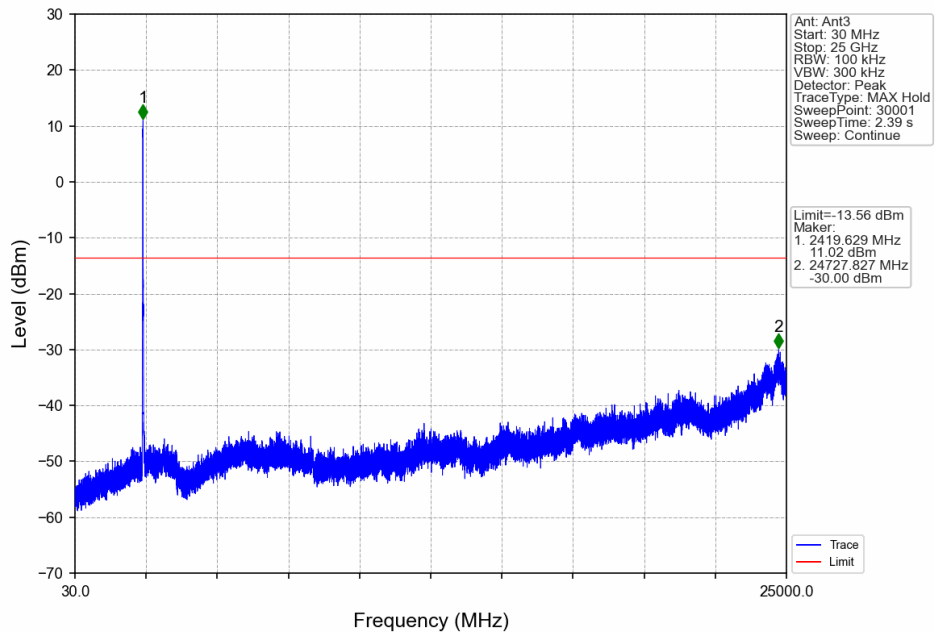




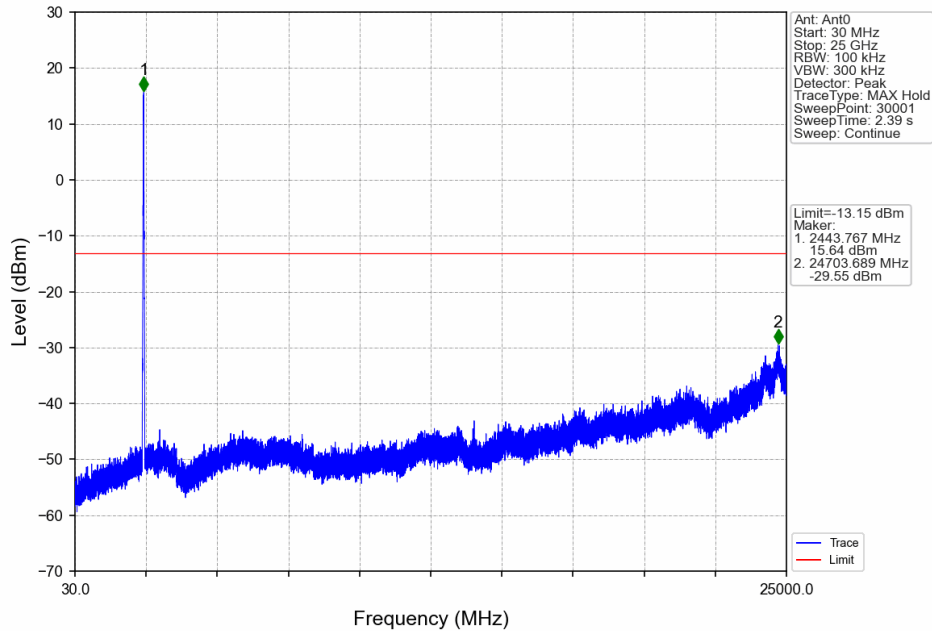
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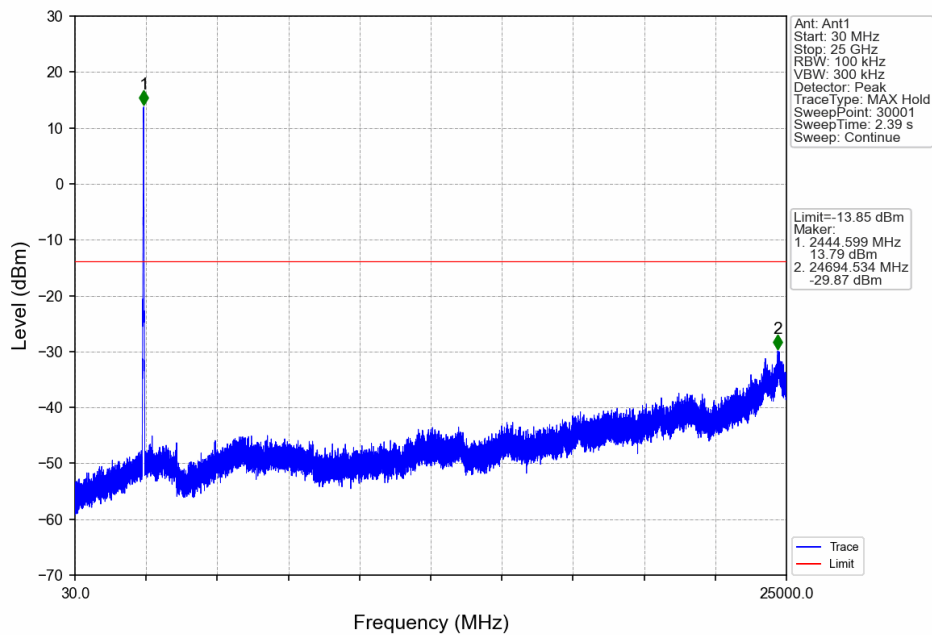
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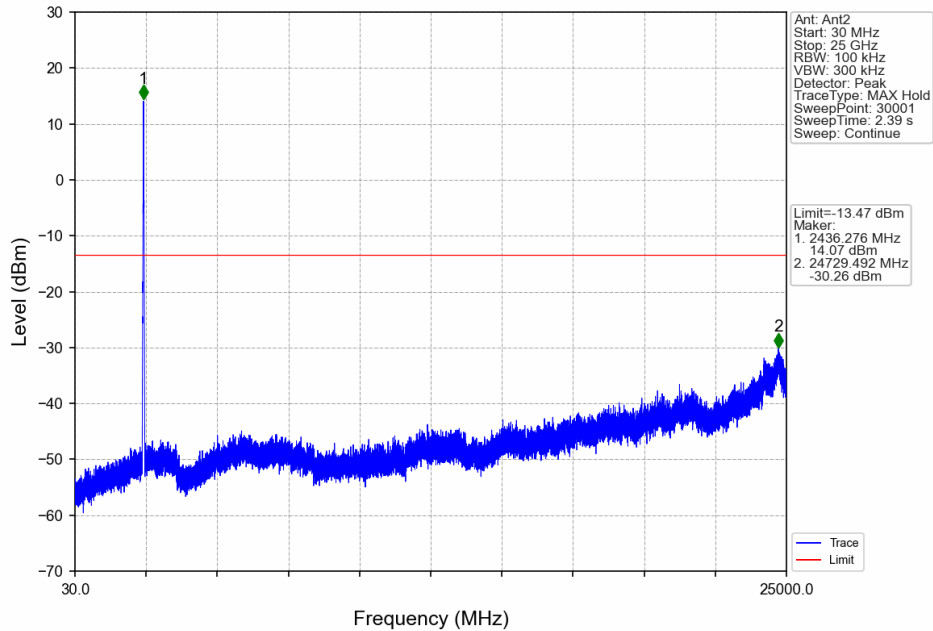
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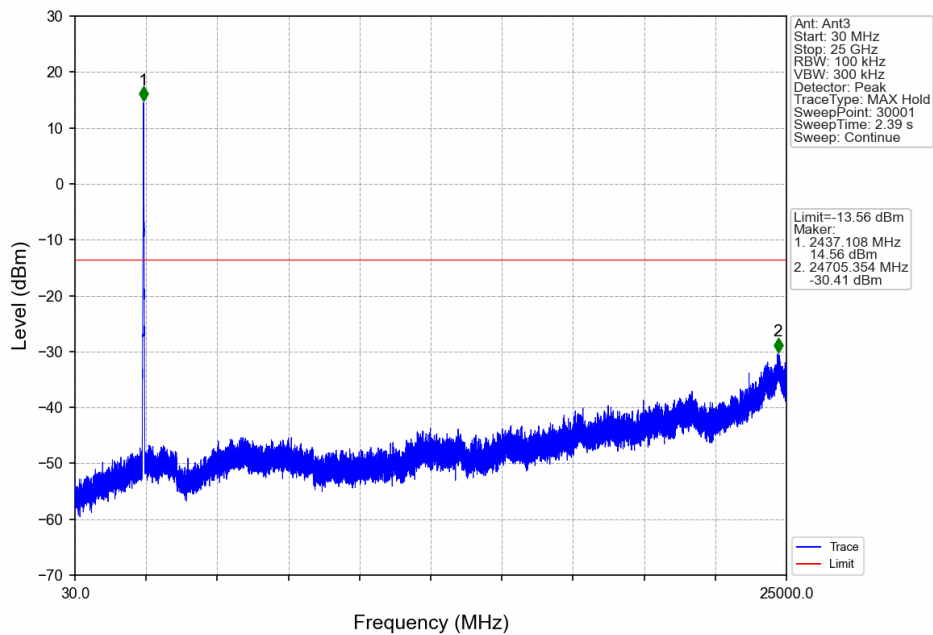
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20M\_MCH\_2437.5MHz\_Ant2\_NTNV



20M\_MCH\_2437.5MHz\_Ant3\_NTNV

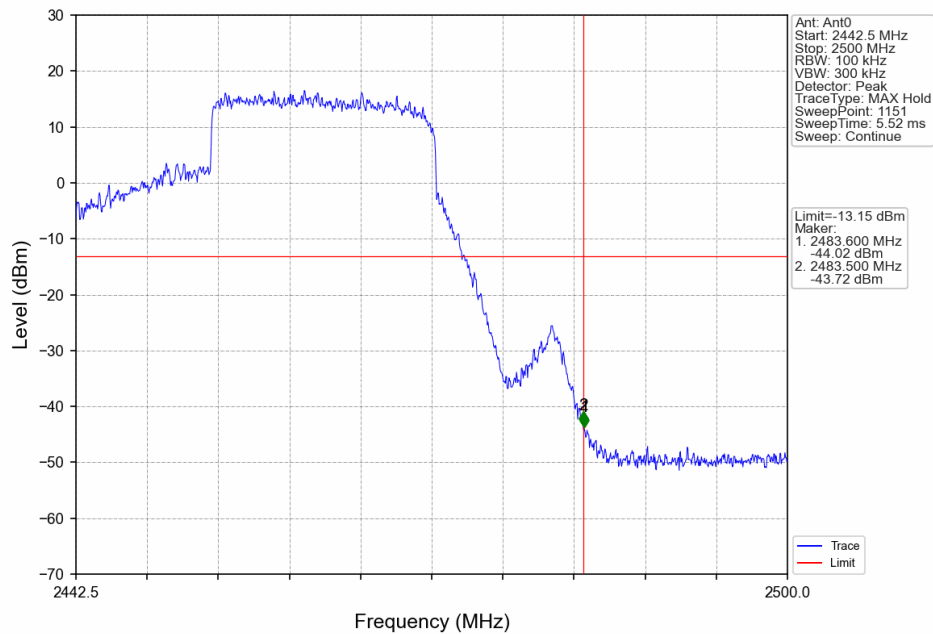


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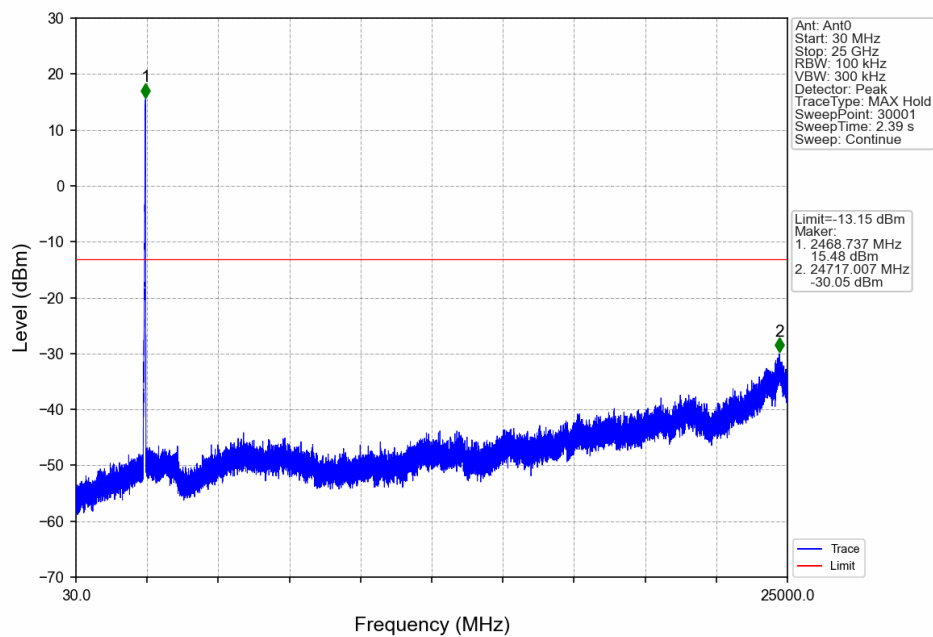
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20M\_HCH\_2462.5MHz\_Ant0\_NTNV

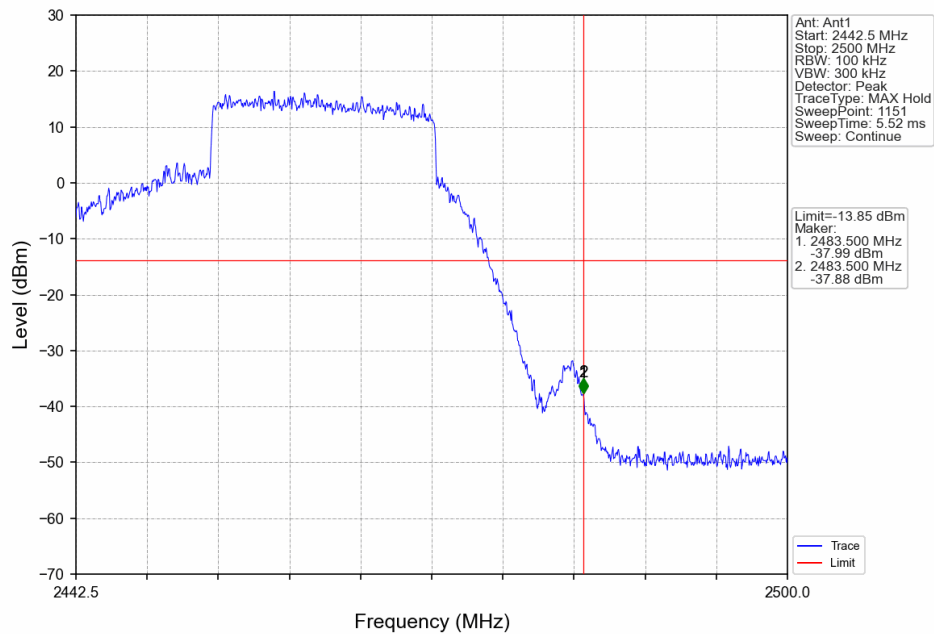


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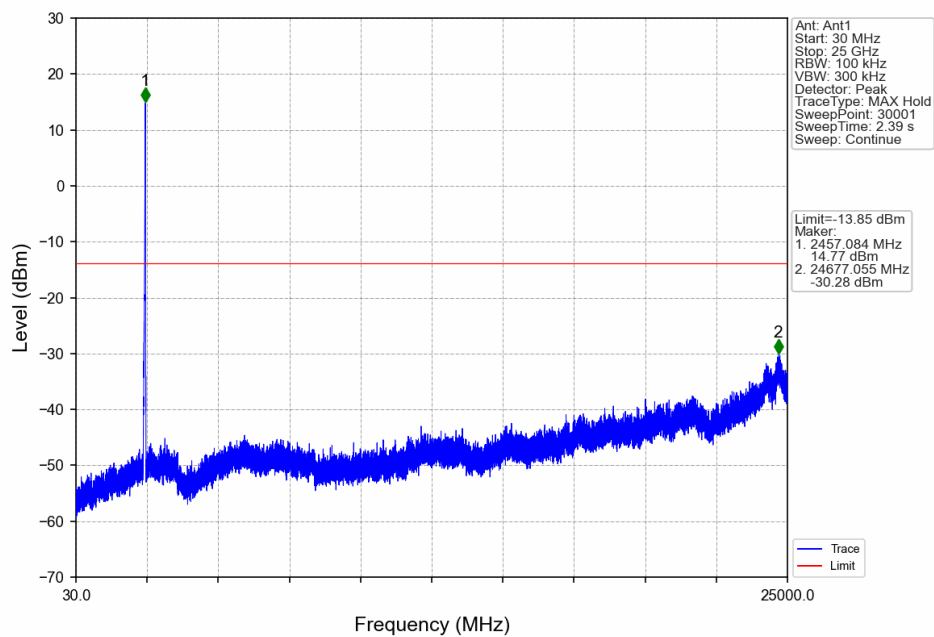




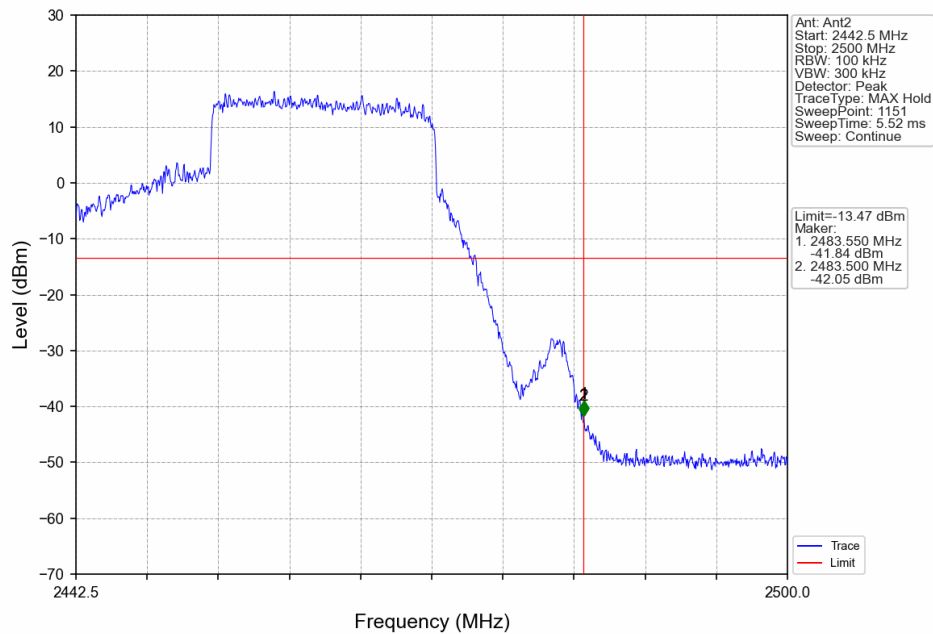
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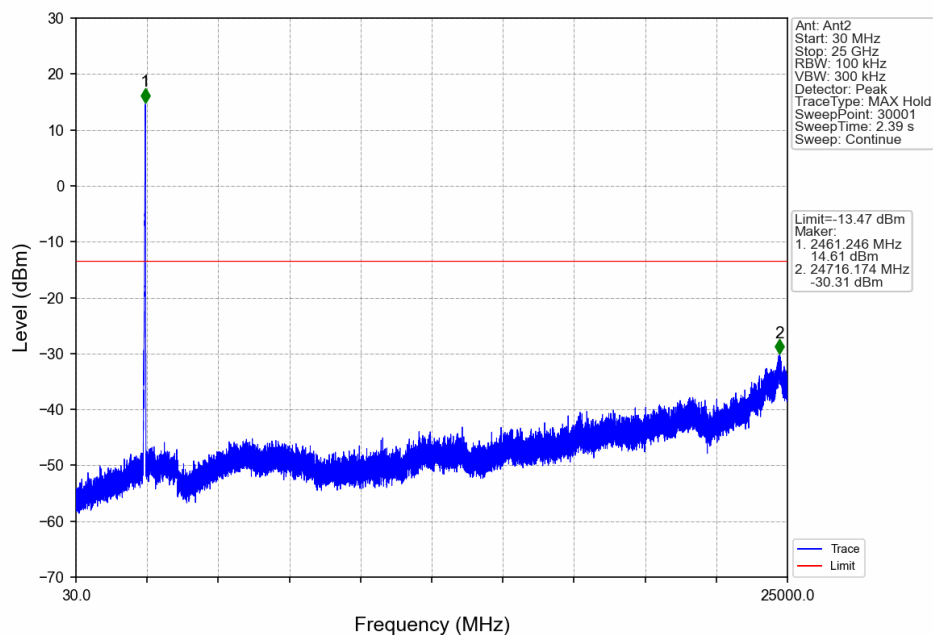
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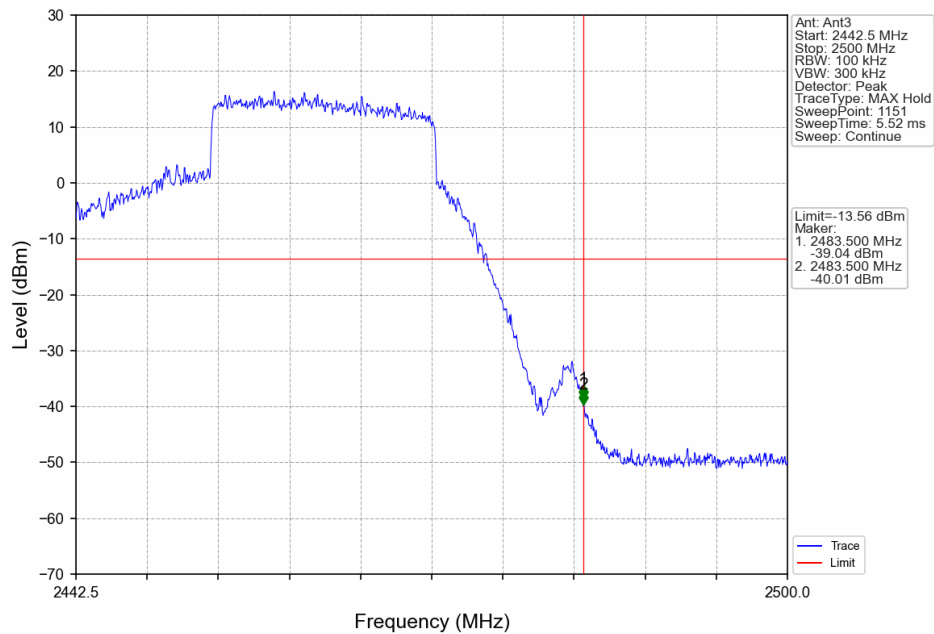
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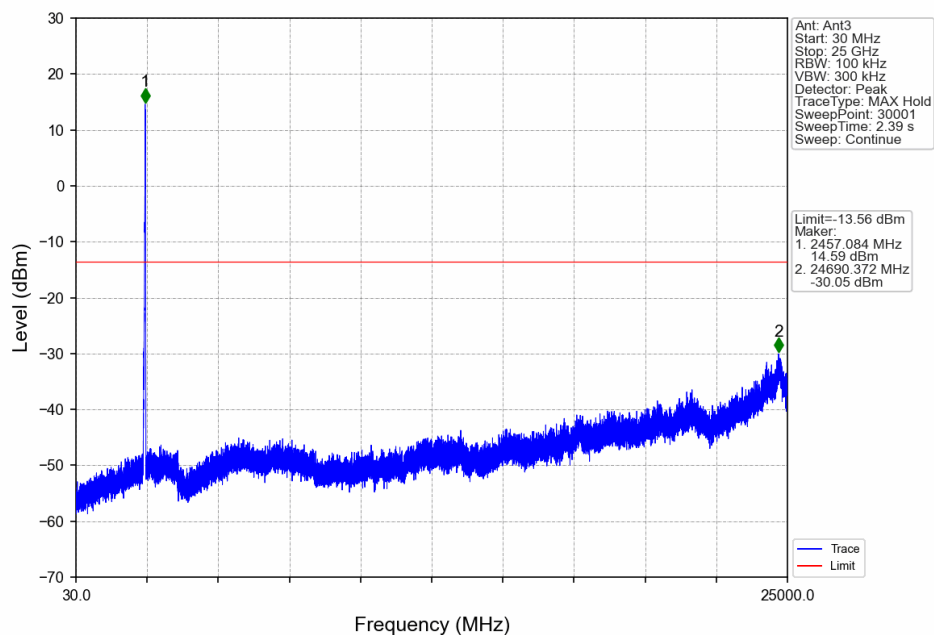
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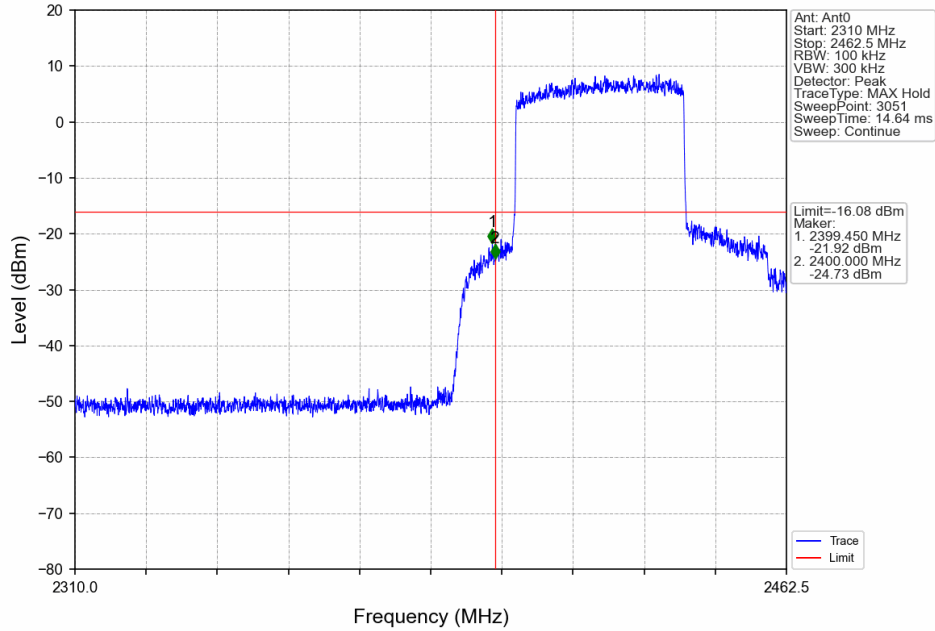
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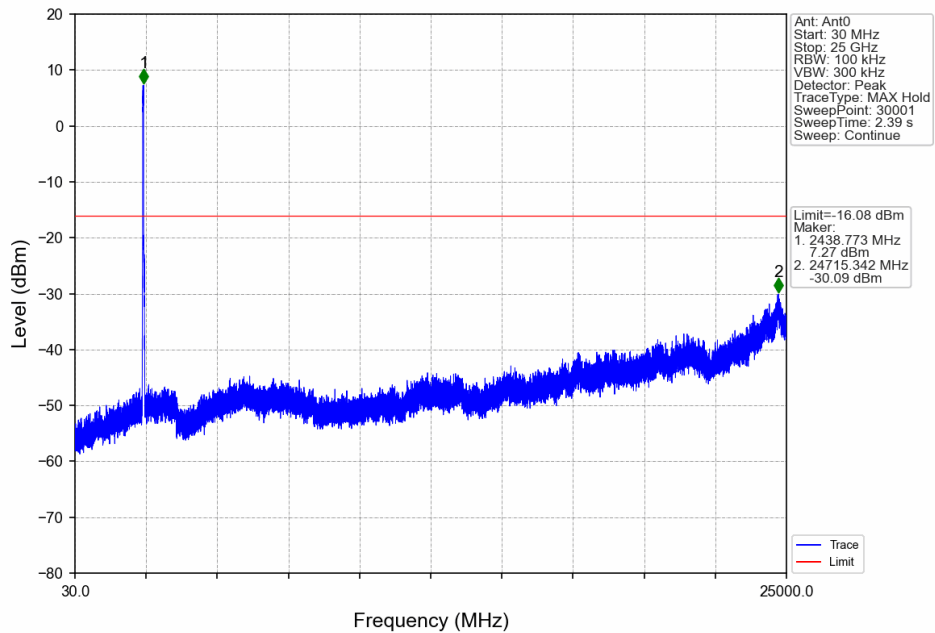
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40M\_LCH\_2422.5MHz\_Ant0\_NTNV



40M\_LCH\_2422.5MHz\_Ant0\_NTNV



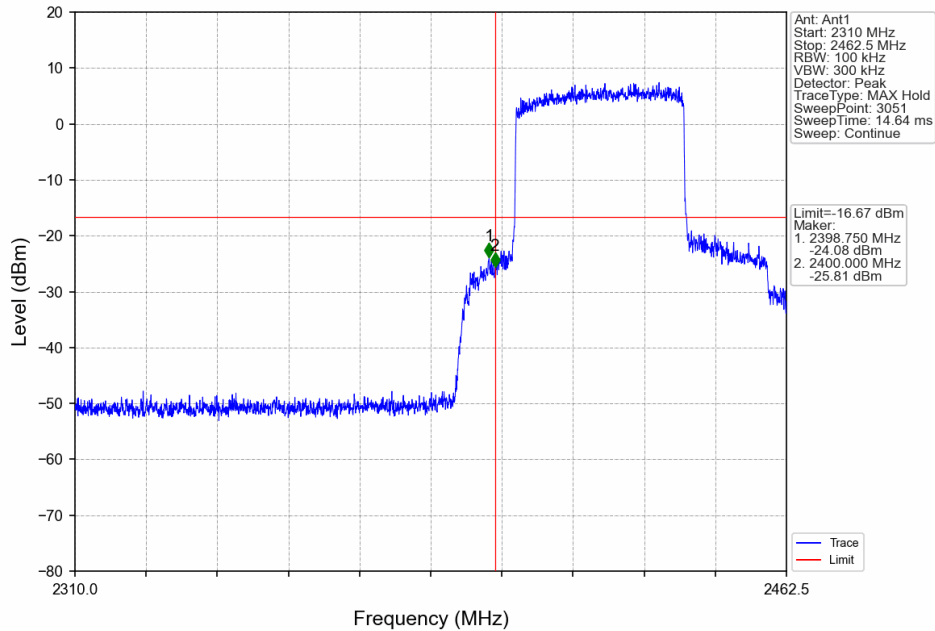
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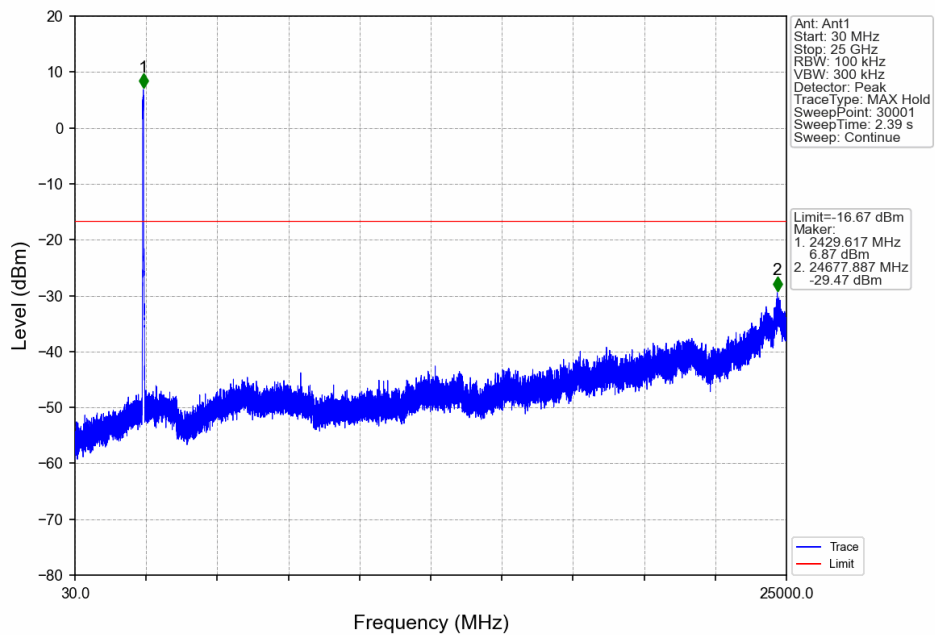
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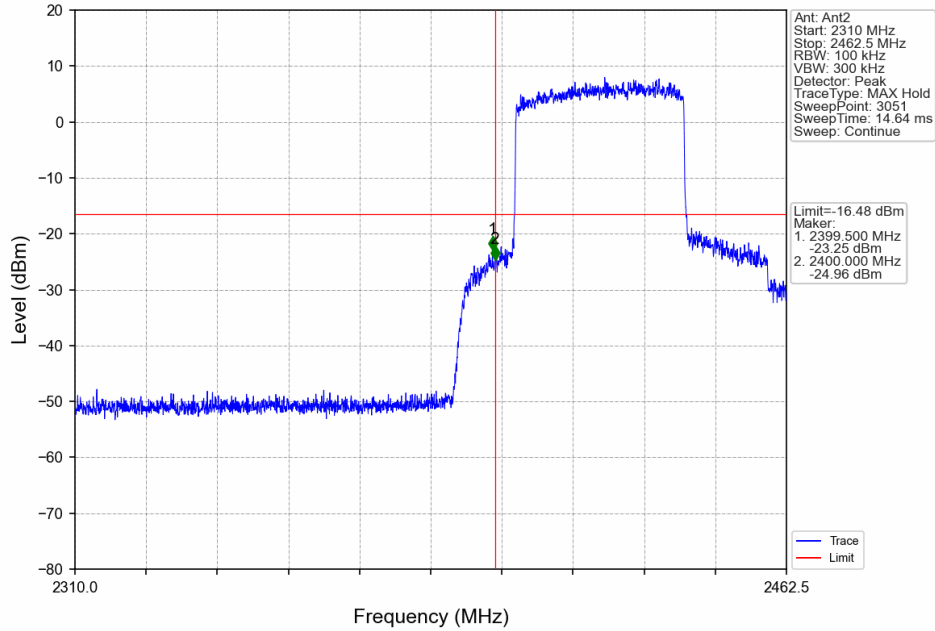
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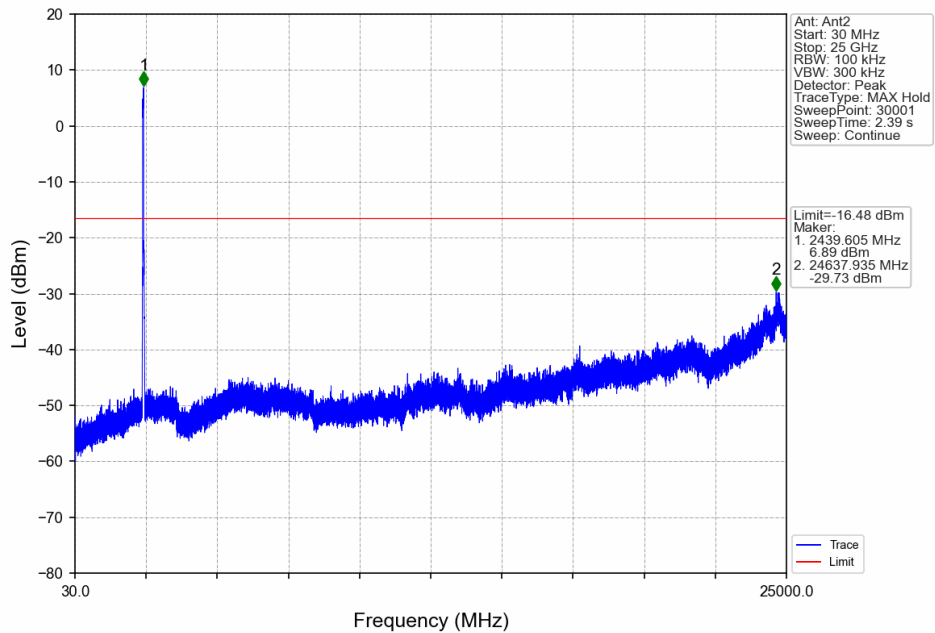
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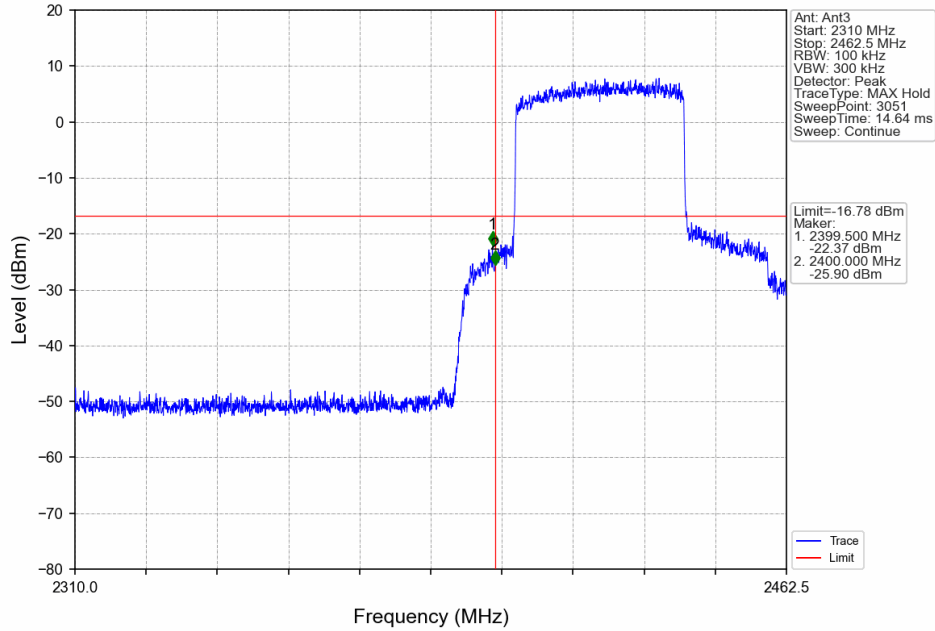


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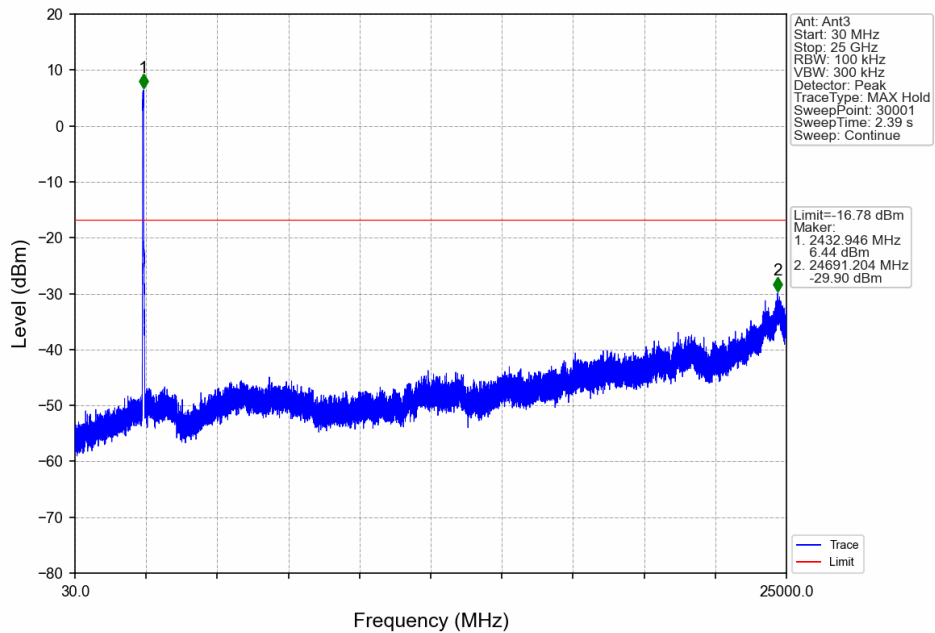
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40M\_LCH\_2422.5MHz\_Ant3\_NTNV



40M\_LCH\_2422.5MHz\_Ant3\_NTNV

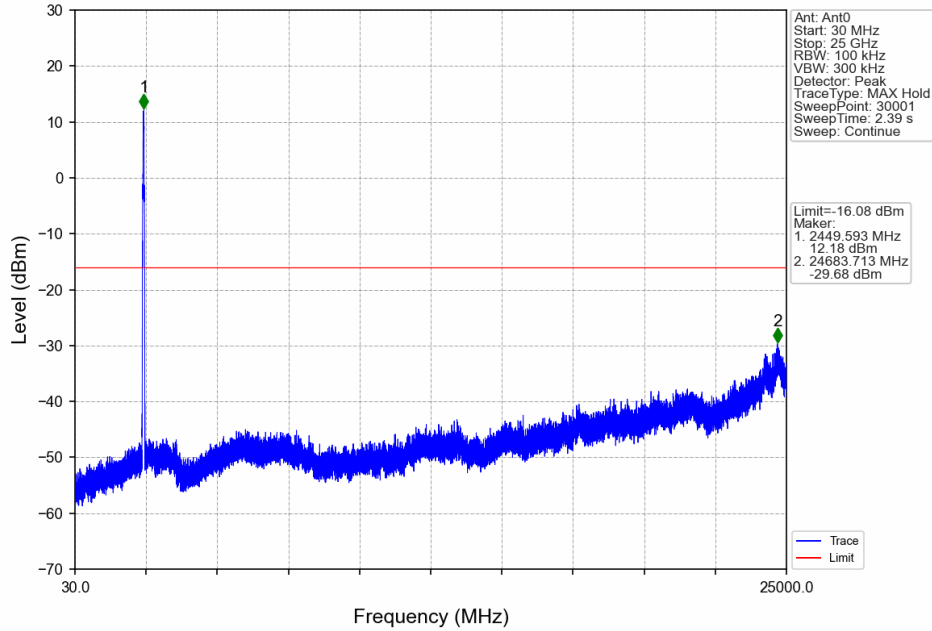


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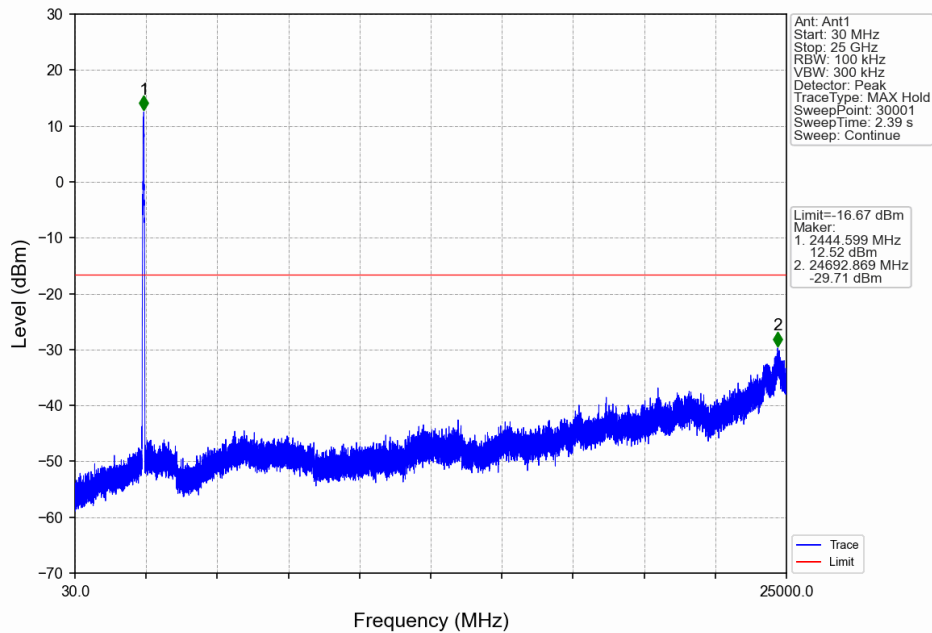
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40M\_MCH\_2437.5MHz\_Ant0\_NTNV



40M\_MCH\_2437.5MHz\_Ant1\_NTNV



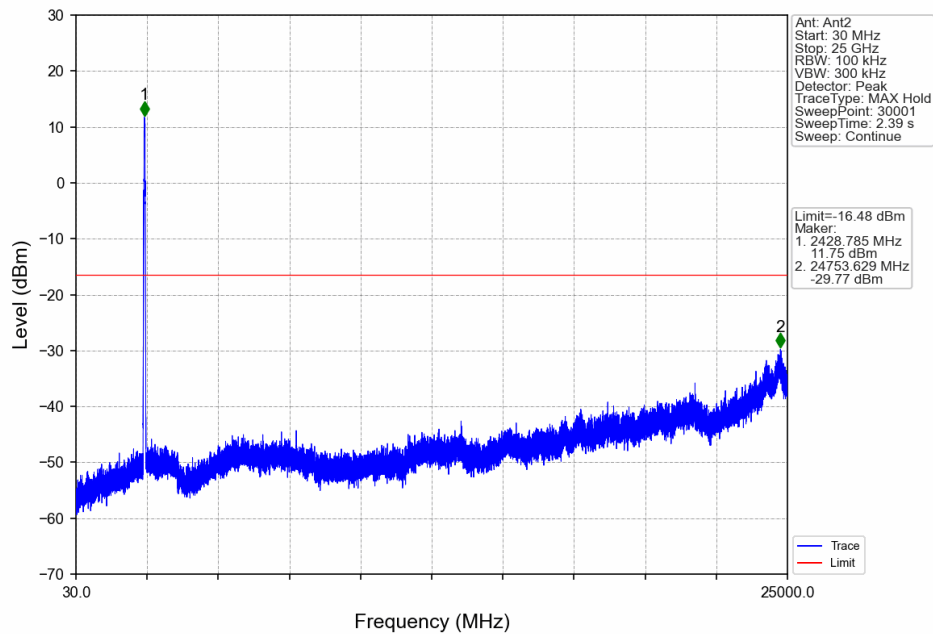
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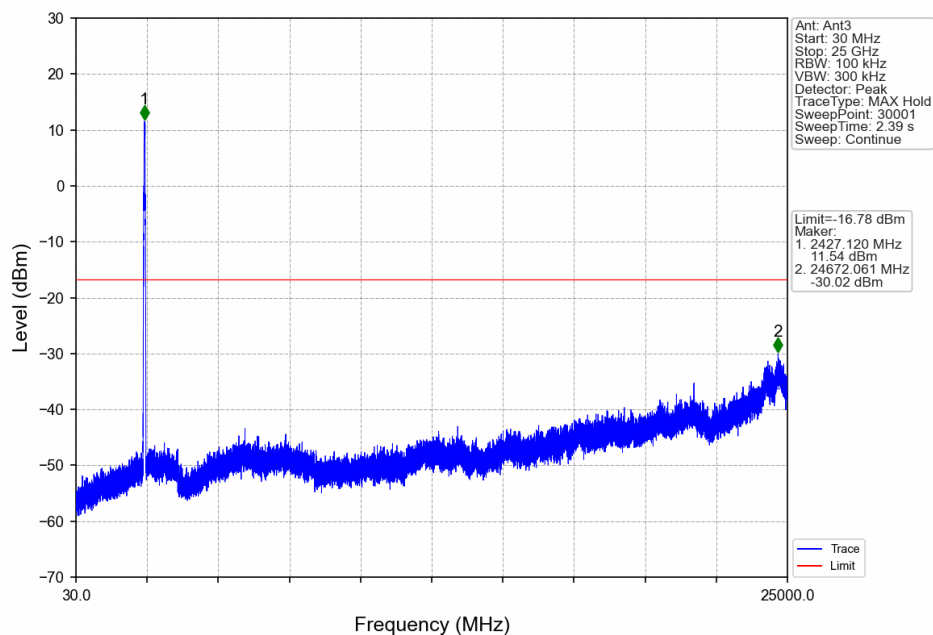
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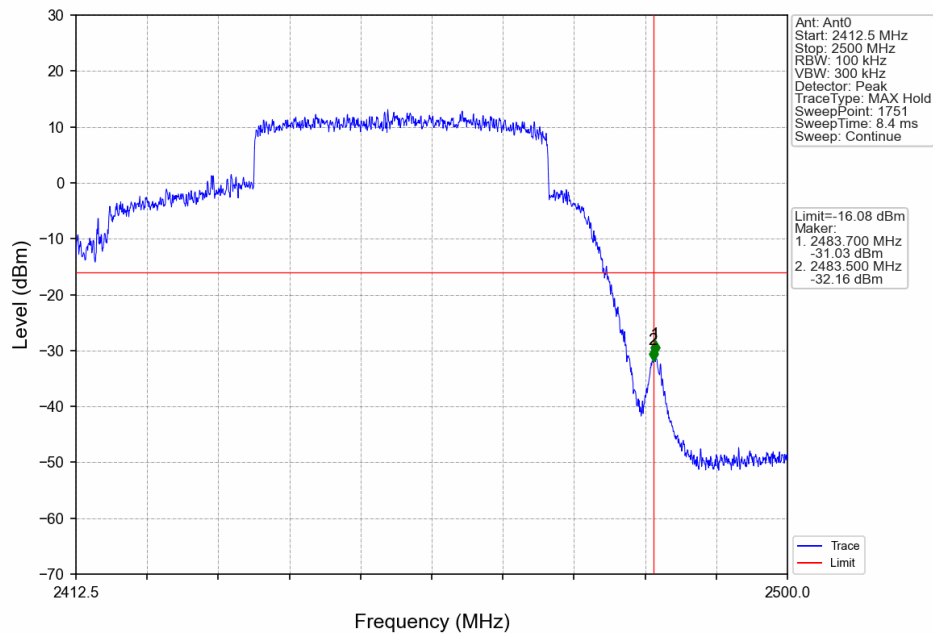
40M\_MCH\_2437.5MHz\_Ant2\_NTNV



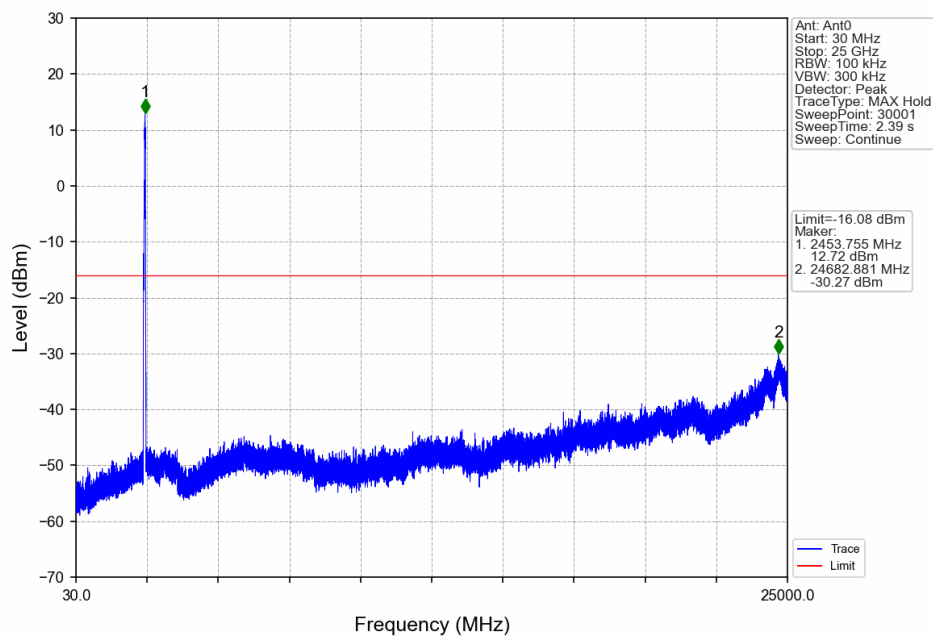
40M\_MCH\_2437.5MHz\_Ant3\_NTNV



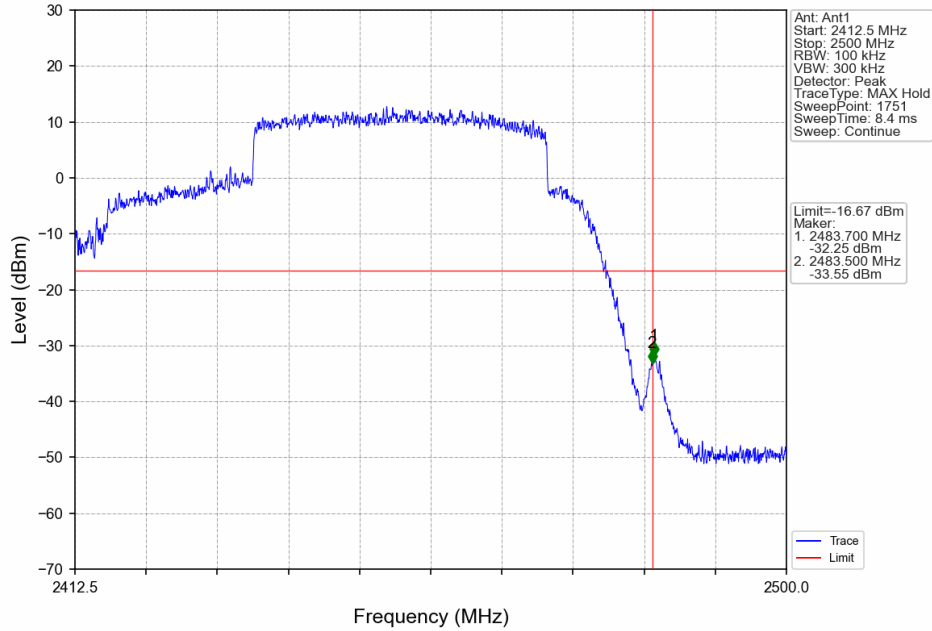
40M\_HCH\_2452.5MHz\_Ant0\_NTNV



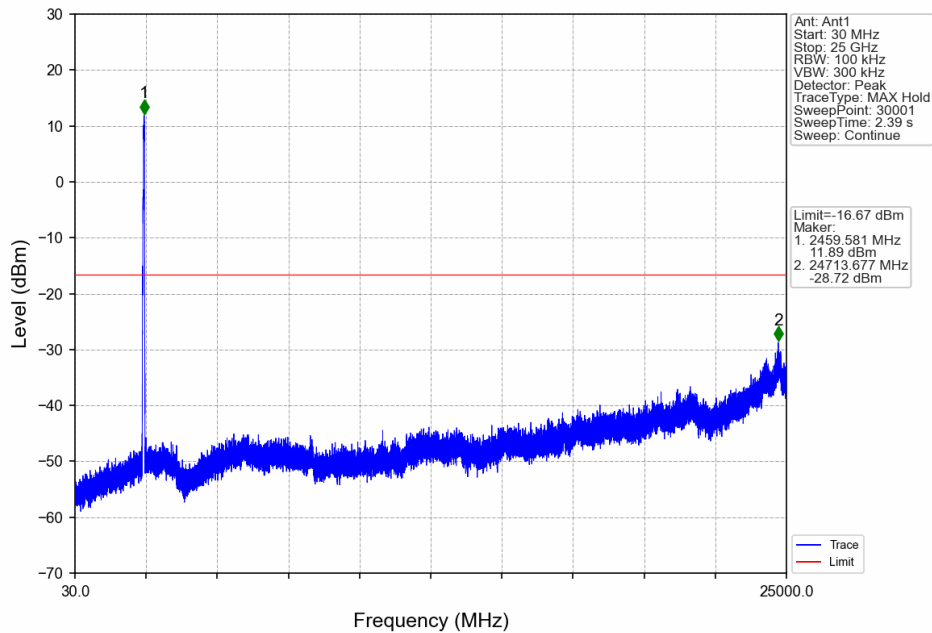
40M\_HCH\_2452.5MHz\_Ant0\_NTNV



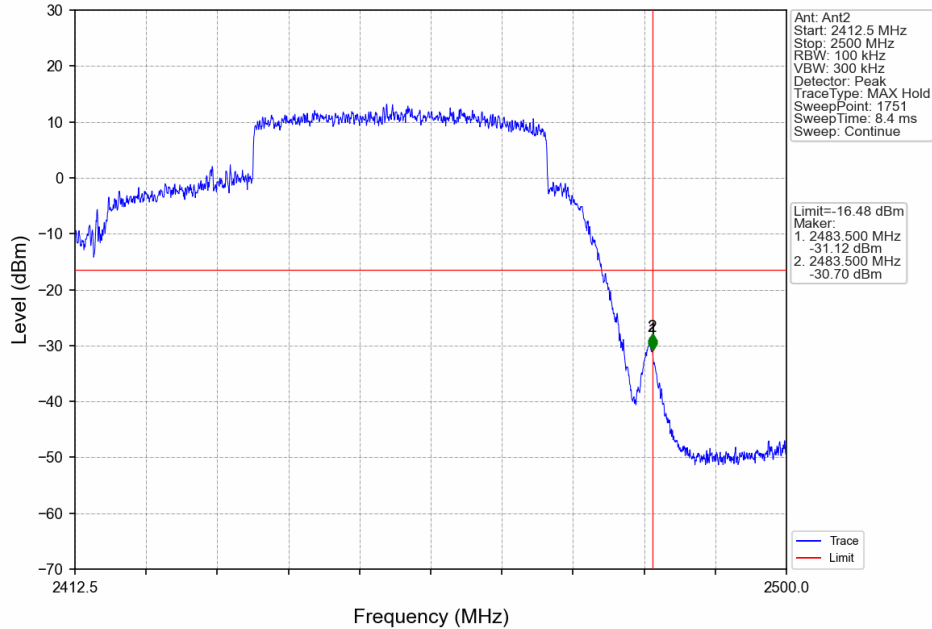
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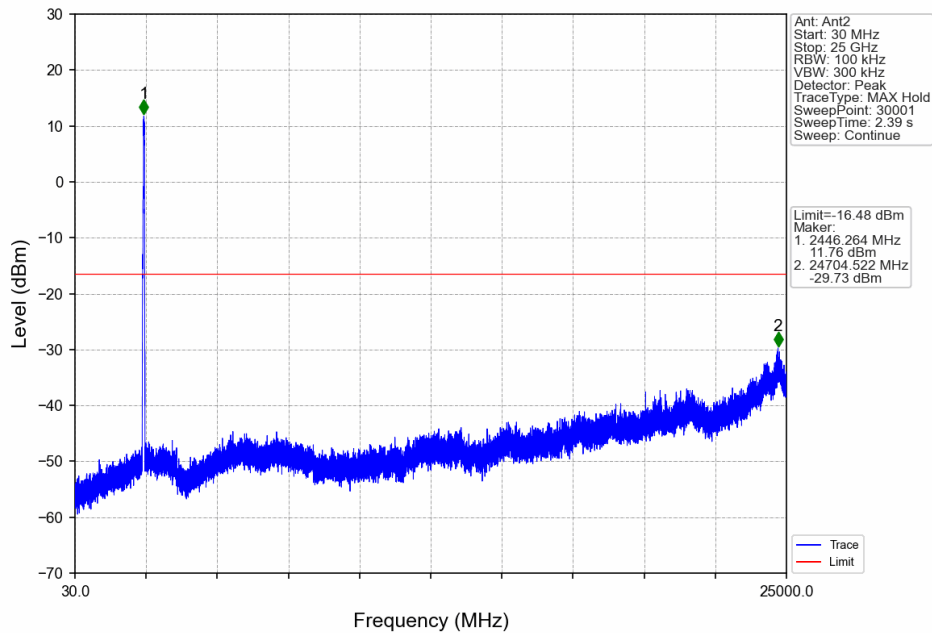
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40M\_HCH\_2452.5MHz\_Ant2\_NTNV

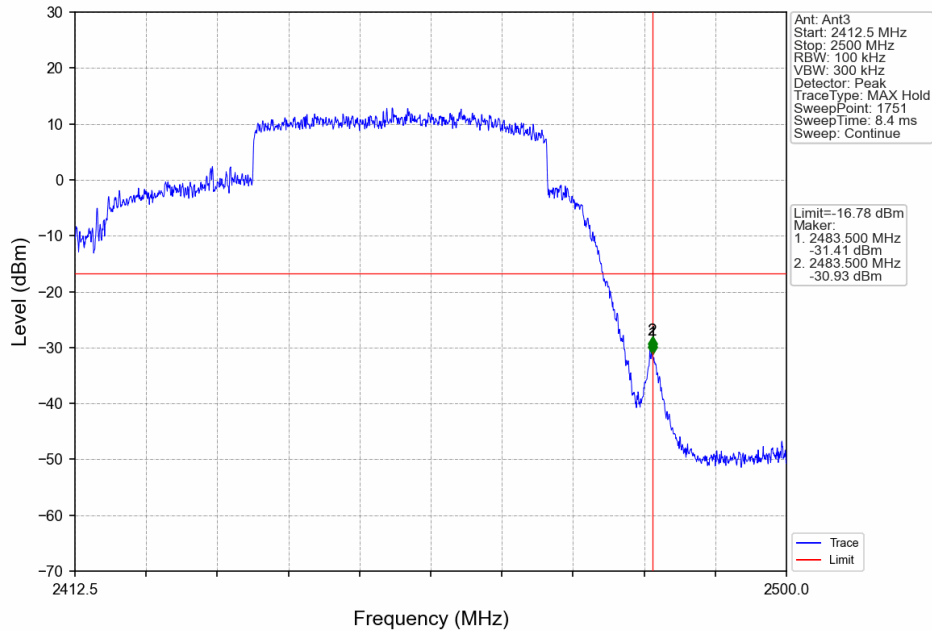


40M\_HCH\_2452.5MHz\_Ant2\_NTNV

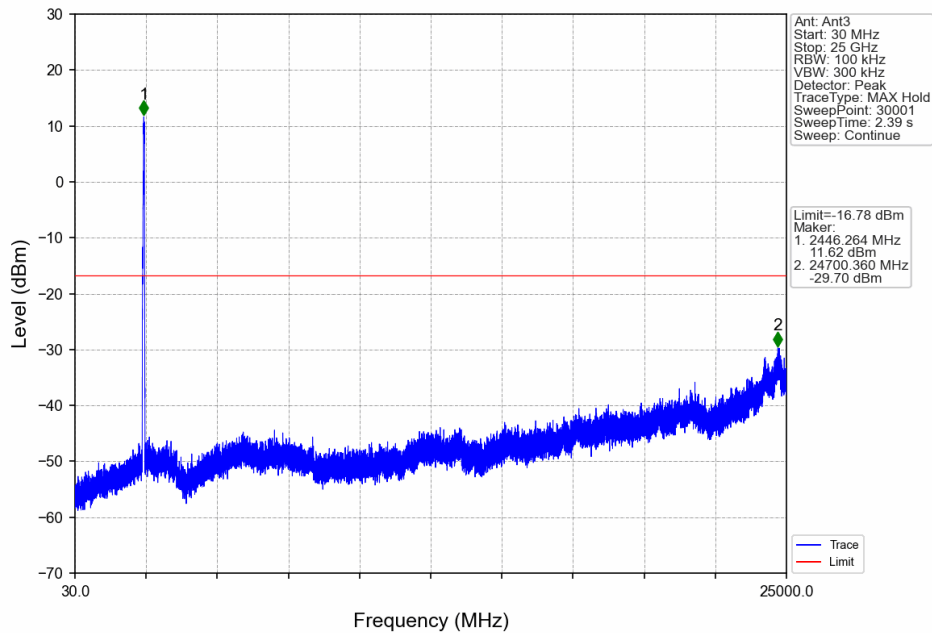




40M\_HCH\_2452.5MHz\_Ant3\_NTNV



40M\_HCH\_2452.5MHz\_Ant3\_NTNV



### 2.4G SDR SISO Mode: ANT4&ANT5

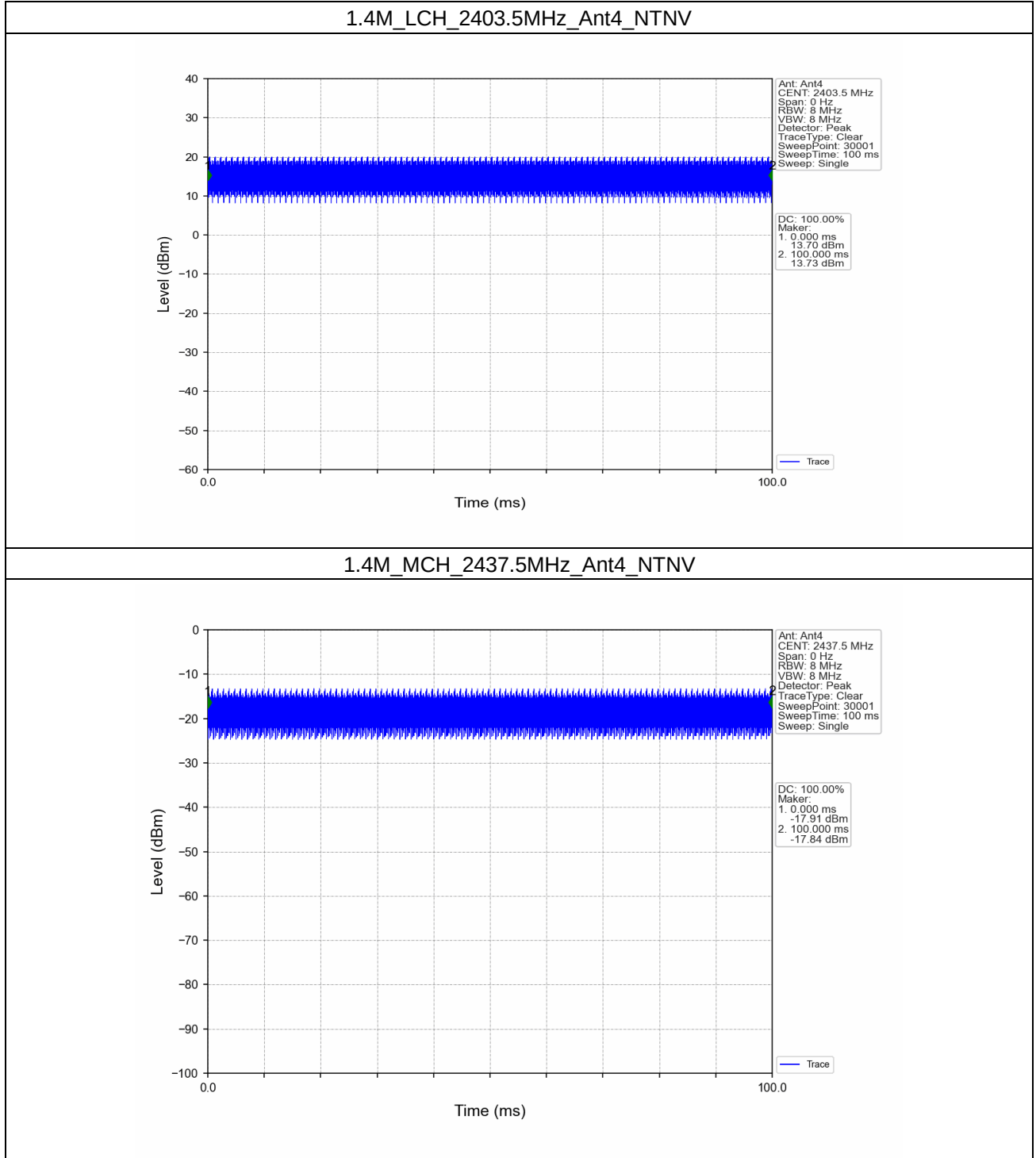
#### 1. Duty Cycle

##### 1.1 Ant4

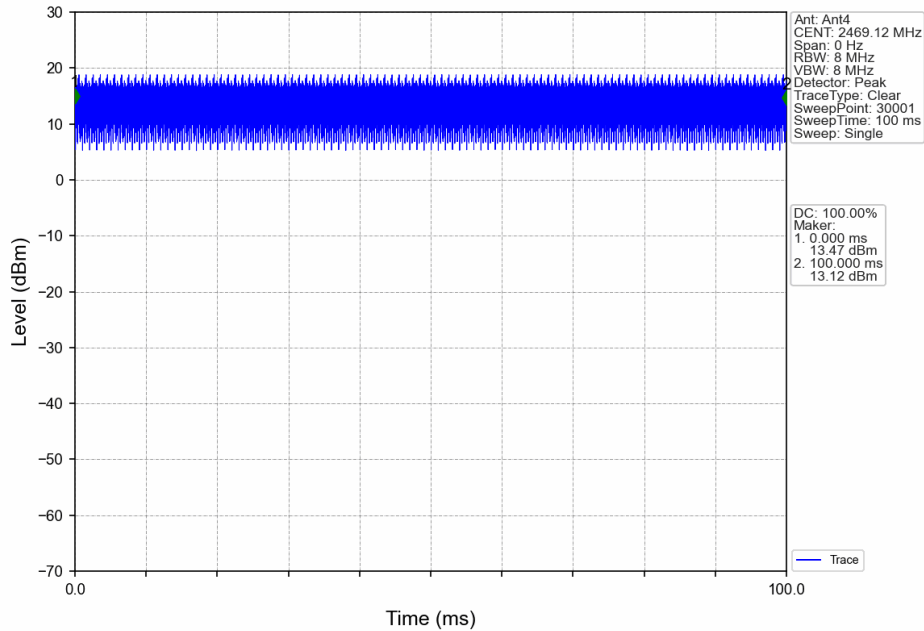
##### 1.1.1 Test Result

| Ant4 |         |                 |                      |             |                |                                   |                       |
|------|---------|-----------------|----------------------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T <sub>on</sub> (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 1.4M | SISO    | 2403.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2437.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2469.12         | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 3M   | SISO    | 2405.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2438.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2468.2          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 5M   | SISO    | 2404.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2439.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2469.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 10M  | SISO    | 2407.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2437.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2467.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 20M  | SISO    | 2412.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2437.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2462.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 40M  | SISO    | 2422.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2437.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2452.5          | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |

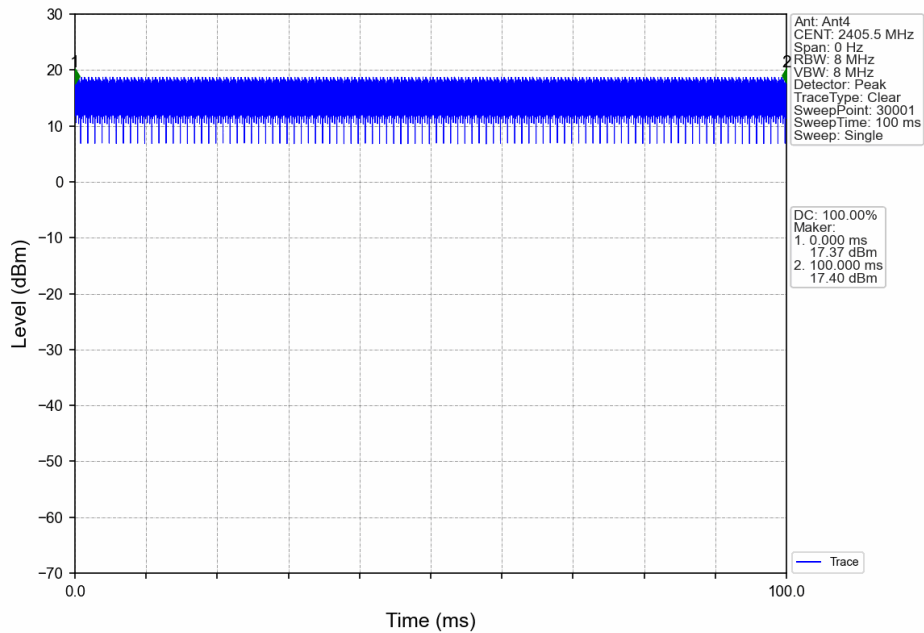
### 1.1.2 Test Graph



### 1.4M\_HCH\_2469.12MHz\_Ant4\_NTNV



### 3M\_LCH\_2405.5MHz\_Ant4\_NTNV



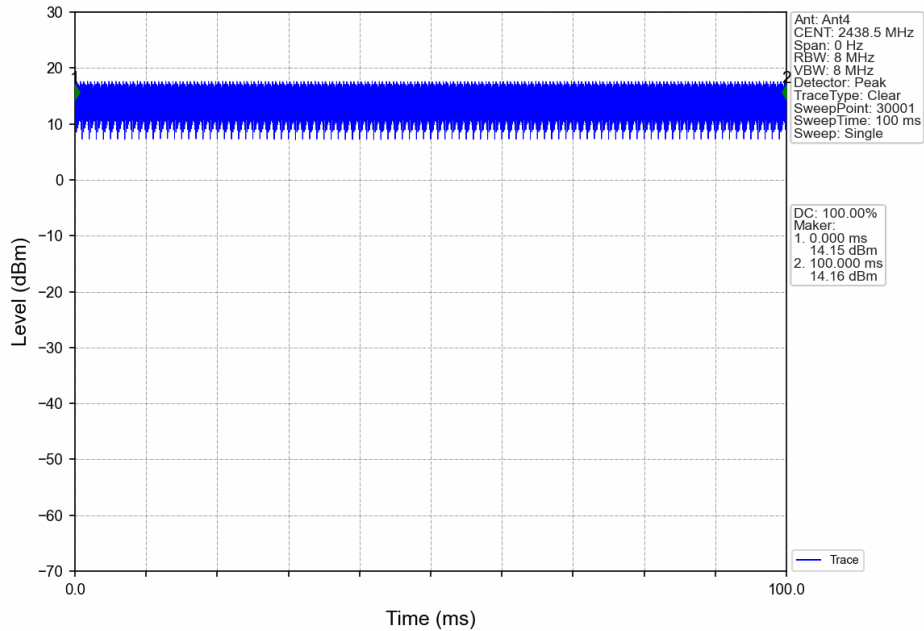
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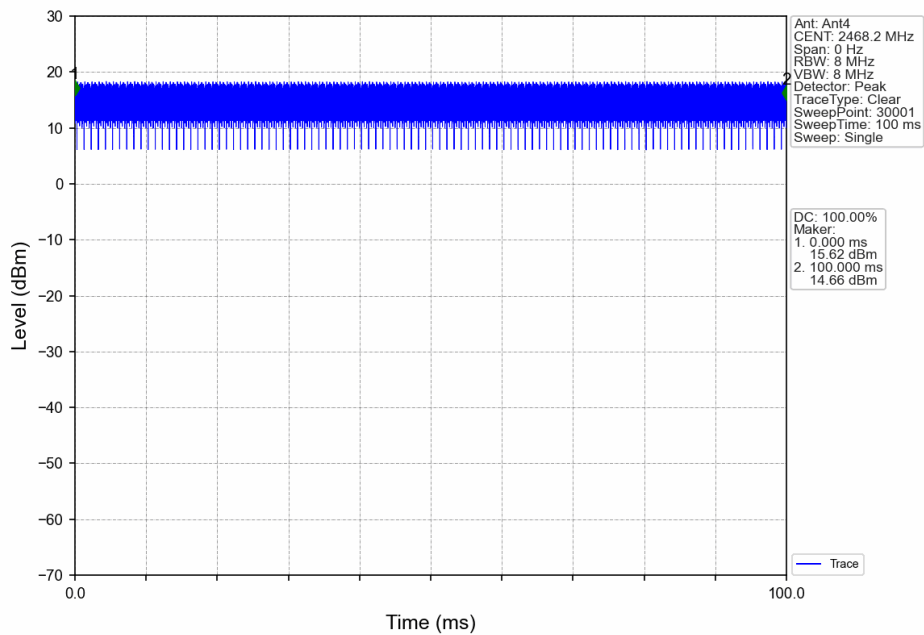
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3M\_MCH\_2438.5MHz\_Ant4\_NTNV



3M\_HCH\_2468.2MHz\_Ant4\_NTNV

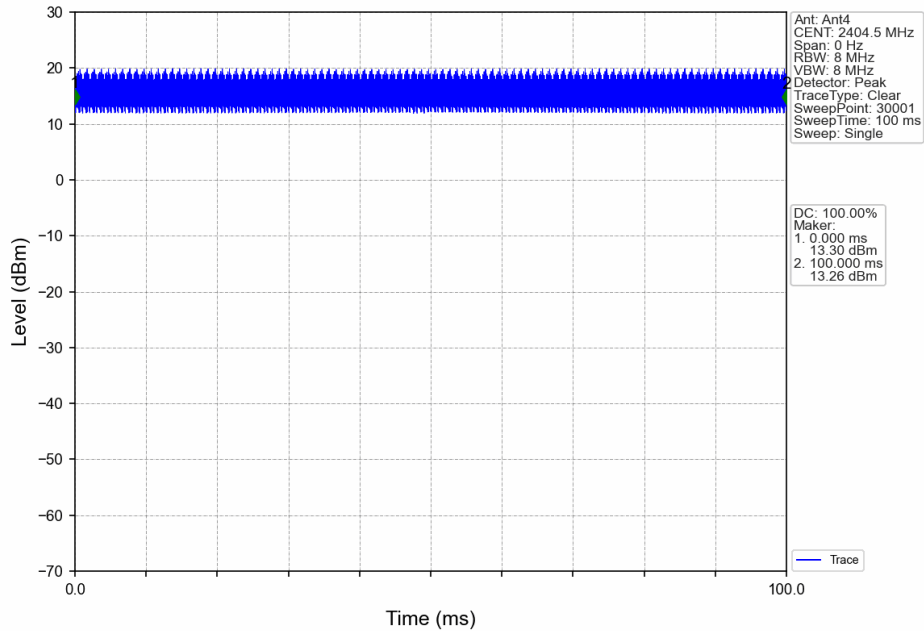


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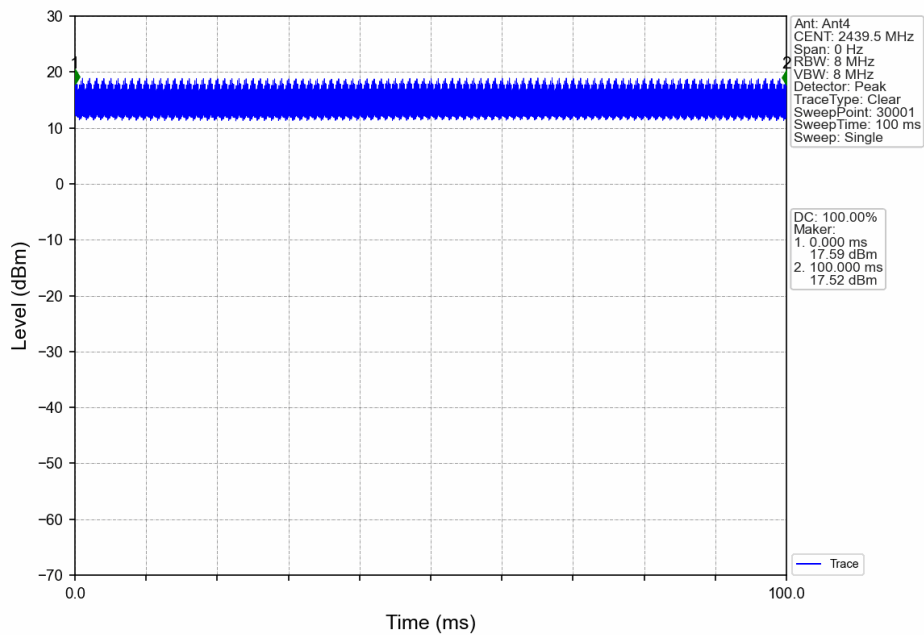
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5M\_LCH\_2404.5MHz\_Ant4\_NTNV



5M\_MCH\_2439.5MHz\_Ant4\_NTNV

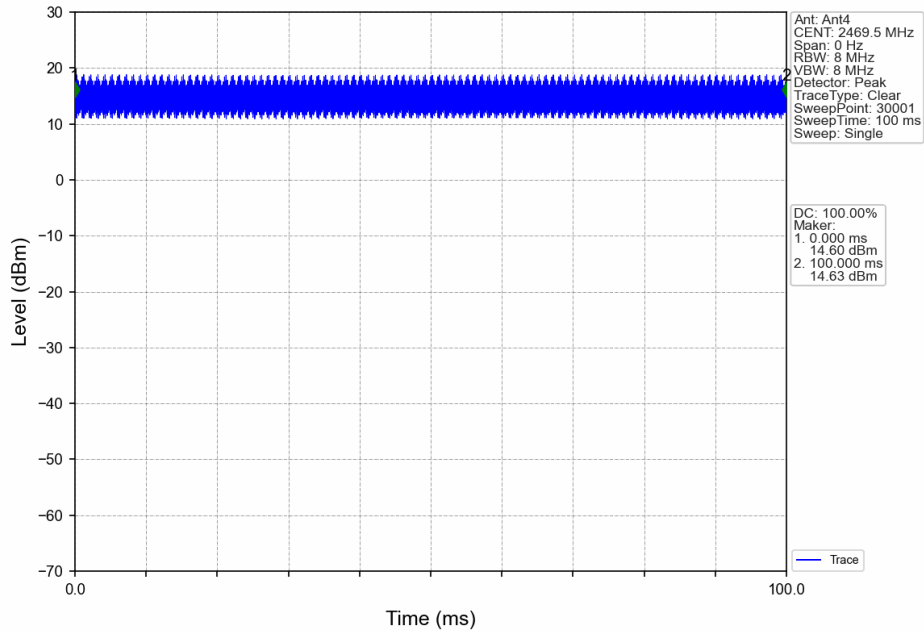


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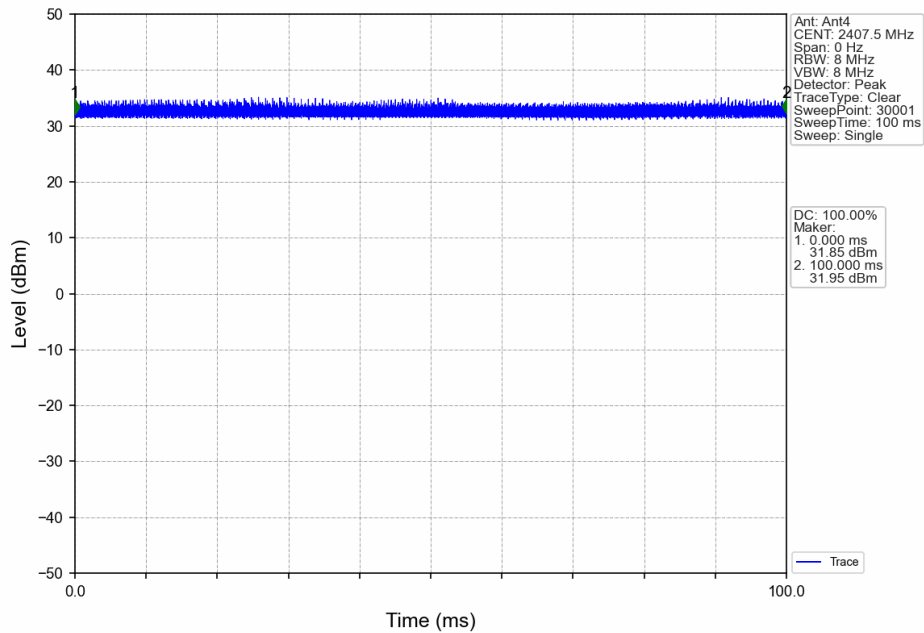
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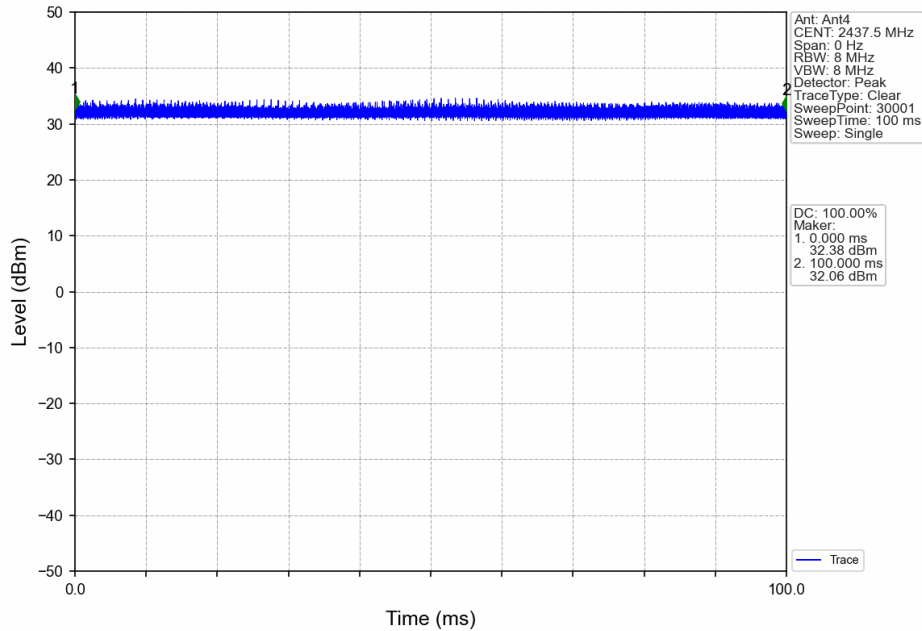
5M\_HCH\_2469.5MHz\_Ant4\_NTNV



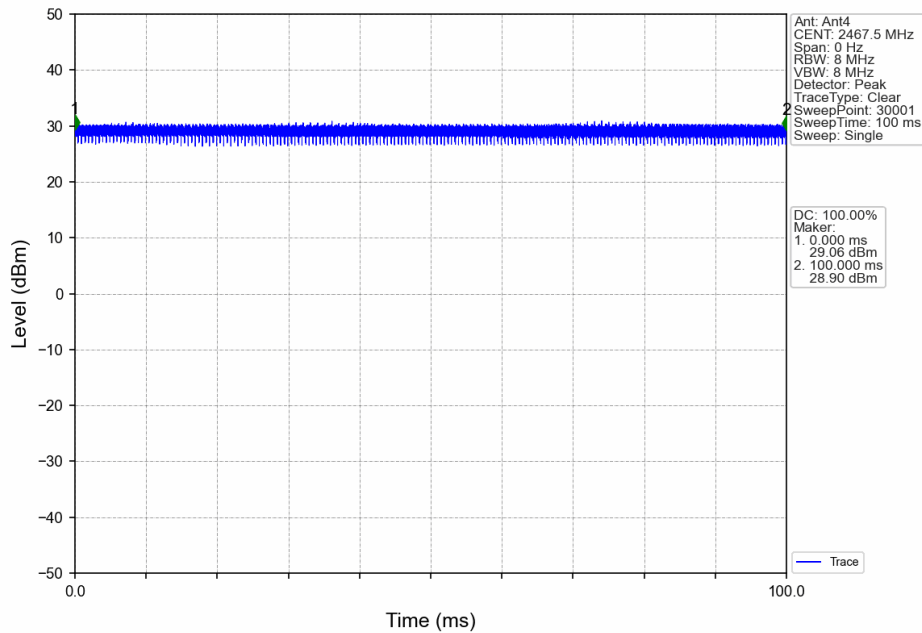
10M\_LCH\_2407.5MHz\_Ant4\_NTNV



10M\_MCH\_2437.5MHz\_Ant4\_NTNV



10M\_HCH\_2467.5MHz\_Ant4\_NTNV



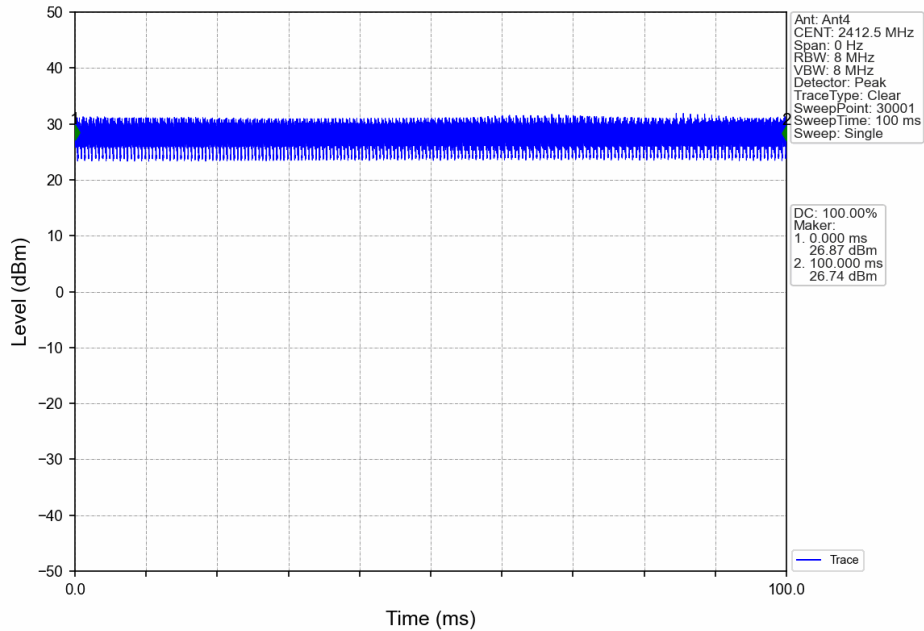
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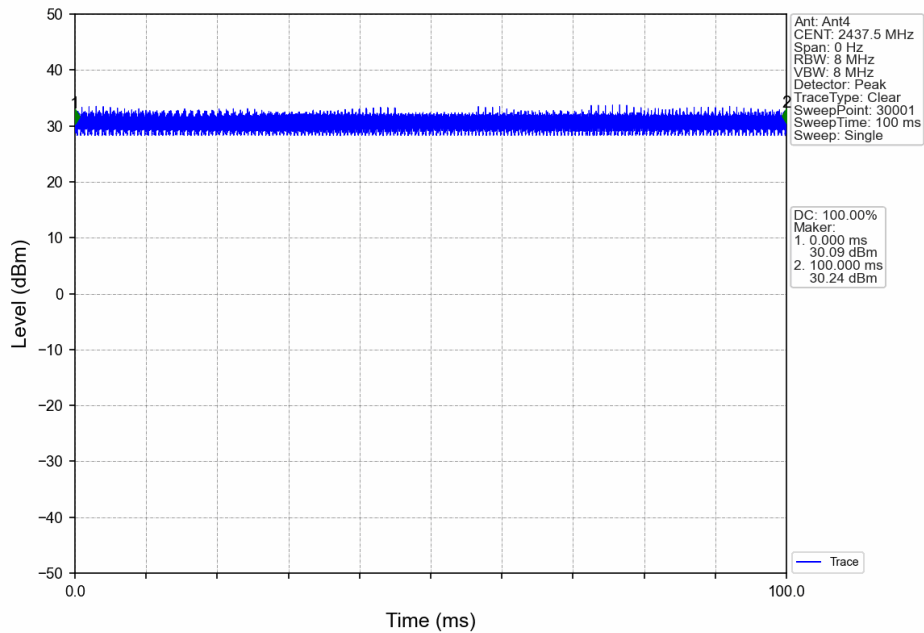
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20M\_LCH\_2412.5MHz\_Ant4\_NTNV



20M\_MCH\_2437.5MHz\_Ant4\_NTNV



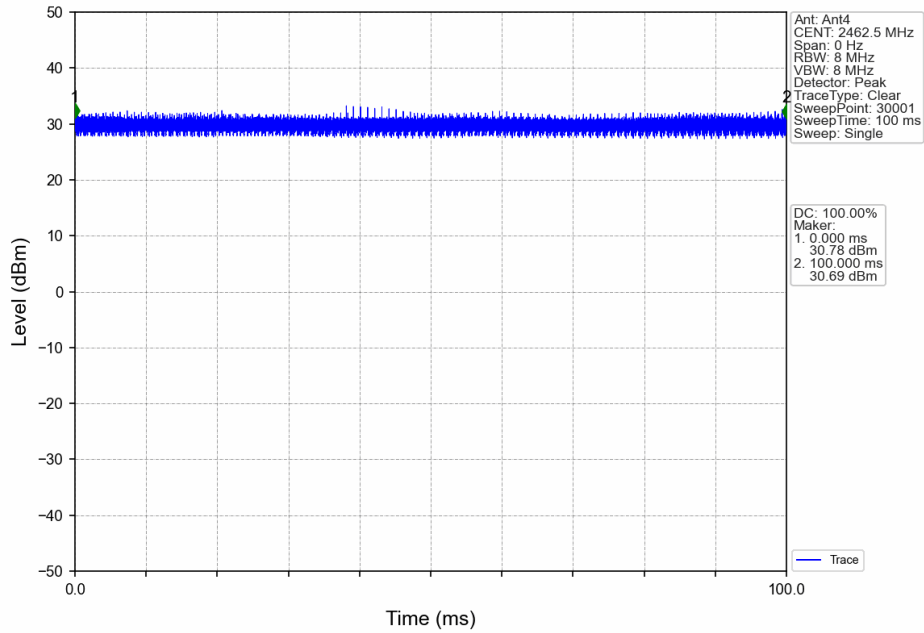
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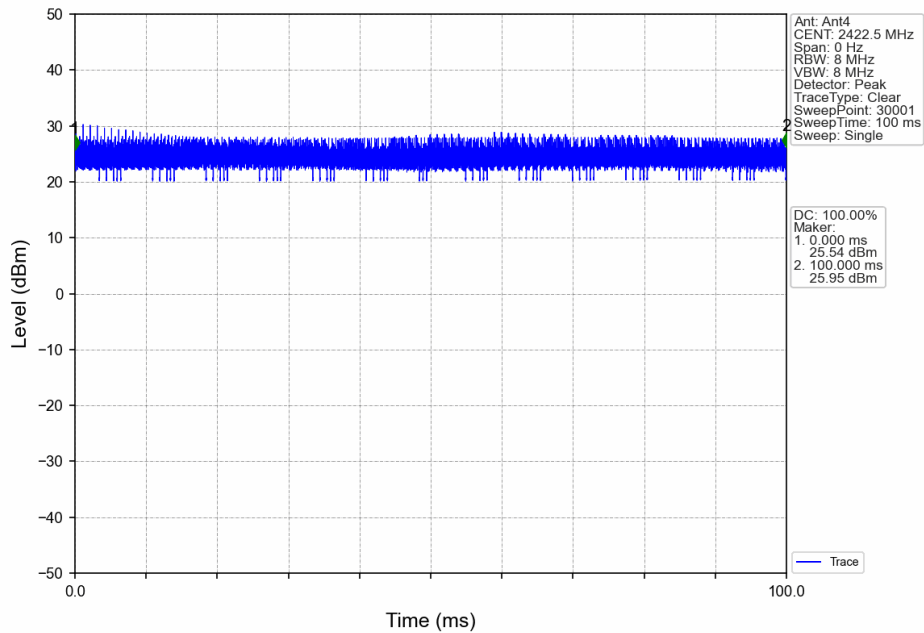
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20M\_HCH\_2462.5MHz\_Ant4\_NTNV



40M\_LCH\_2422.5MHz\_Ant4\_NTNV

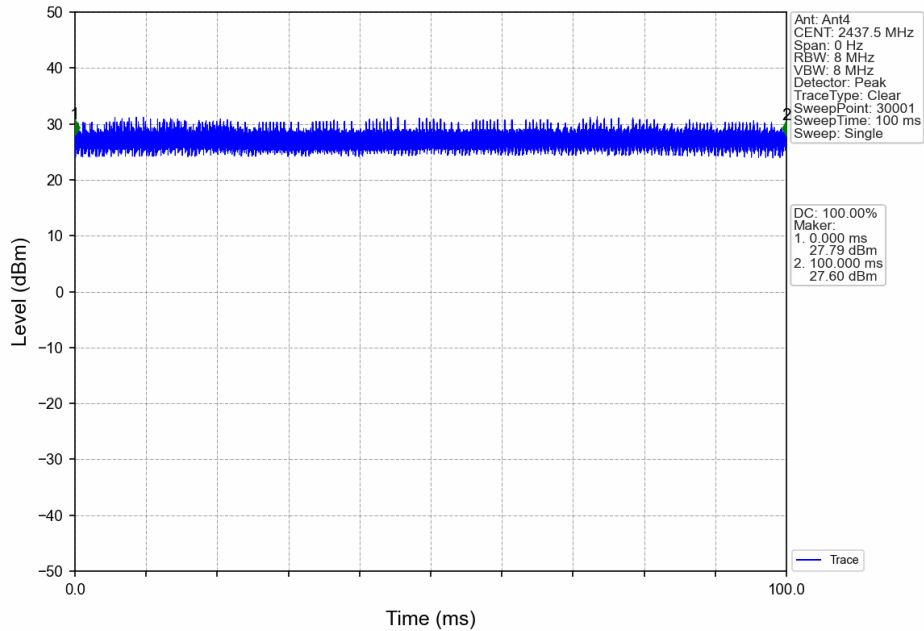


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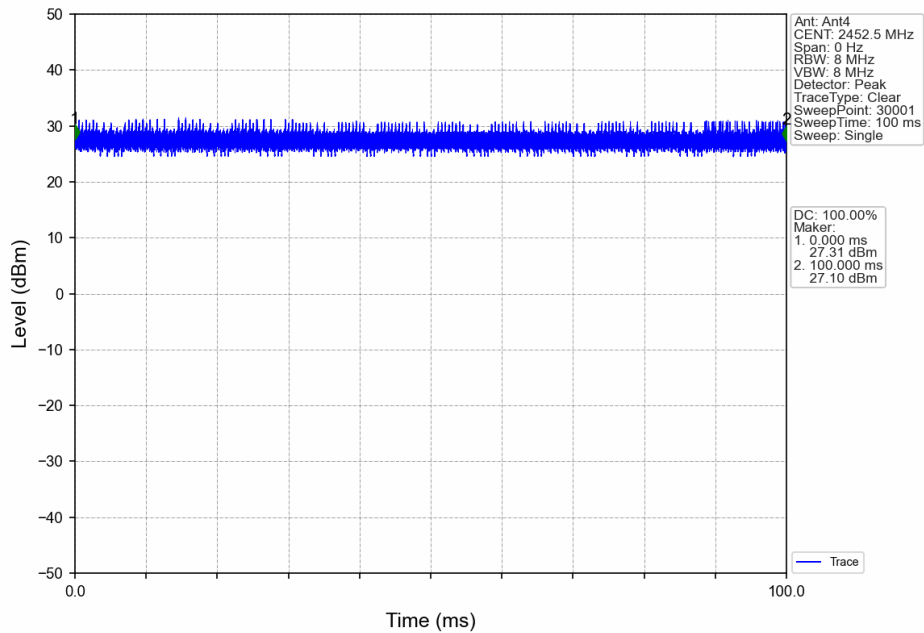
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40M\_MCH\_2437.5MHz\_Ant4\_NTNV



40M\_HCH\_2452.5MHz\_Ant4\_NTNV



## 2. Bandwidth

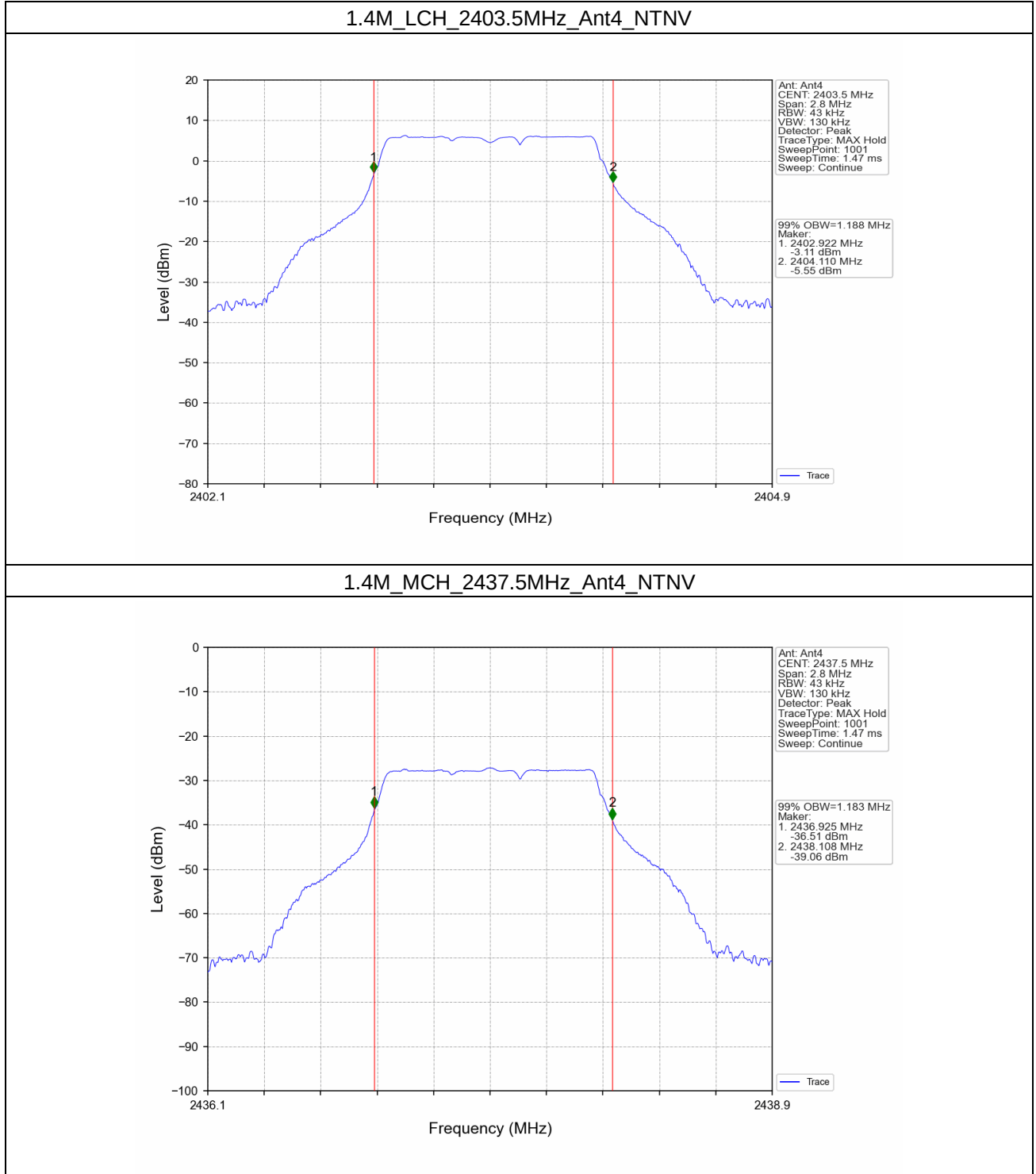
### 2.1 OBW

#### 2.1.1 Test Result

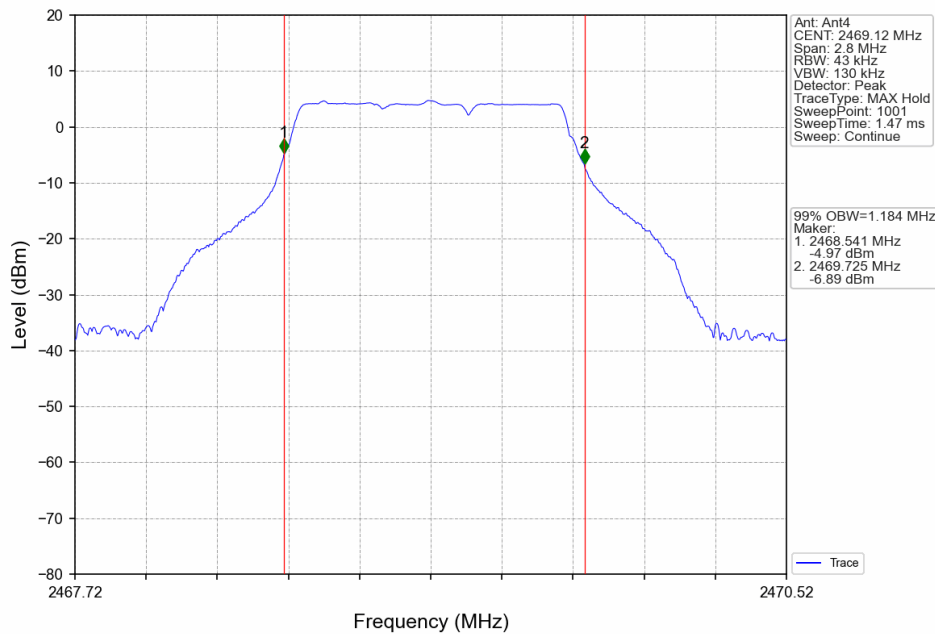
| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|------|---------|-----------------|-----|------------------------------|---------|
|      |         |                 |     | Result                       |         |
| 1.4M | SISO    | 2403.5          | 4   | 1.188                        | Pass    |
|      |         | 2437.5          | 4   | 1.183                        | Pass    |
|      |         | 2469.12         | 4   | 1.184                        | Pass    |
| 3M   | SISO    | 2405.5          | 4   | 2.303                        | Pass    |
|      |         | 2438.5          | 4   | 2.299                        | Pass    |
|      |         | 2468.2          | 4   | 2.298                        | Pass    |
| 5M   | SISO    | 2404.5          | 4   | 4.401                        | Pass    |
|      |         | 2439.5          | 4   | 4.396                        | Pass    |
|      |         | 2469.5          | 4   | 4.393                        | Pass    |
| 10M  | SISO    | 2407.5          | 4   | 12.128                       | Pass    |
|      |         | 2437.5          | 4   | 13.991                       | Pass    |
|      |         | 2467.5          | 4   | 12.198                       | Pass    |
| 20M  | SISO    | 2412.5          | 4   | 18.144                       | Pass    |
|      |         | 2437.5          | 4   | 27.984                       | Pass    |
|      |         | 2462.5          | 4   | 24.460                       | Pass    |
| 40M  | SISO    | 2422.5          | 4   | 36.888                       | Pass    |
|      |         | 2437.5          | 4   | 58.194                       | Pass    |
|      |         | 2452.5          | 4   | 52.308                       | Pass    |



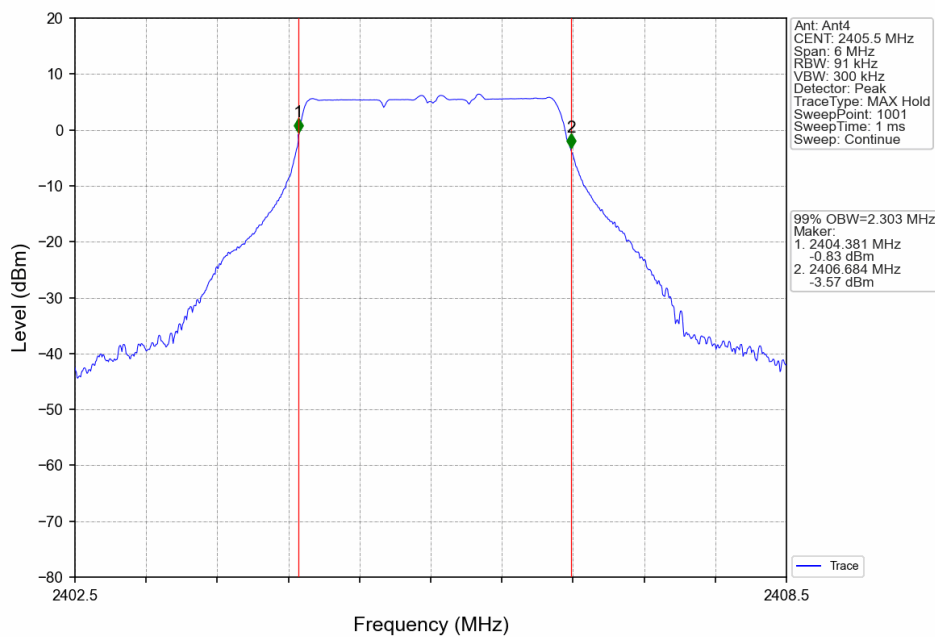
### 2.1.2 Test Graph



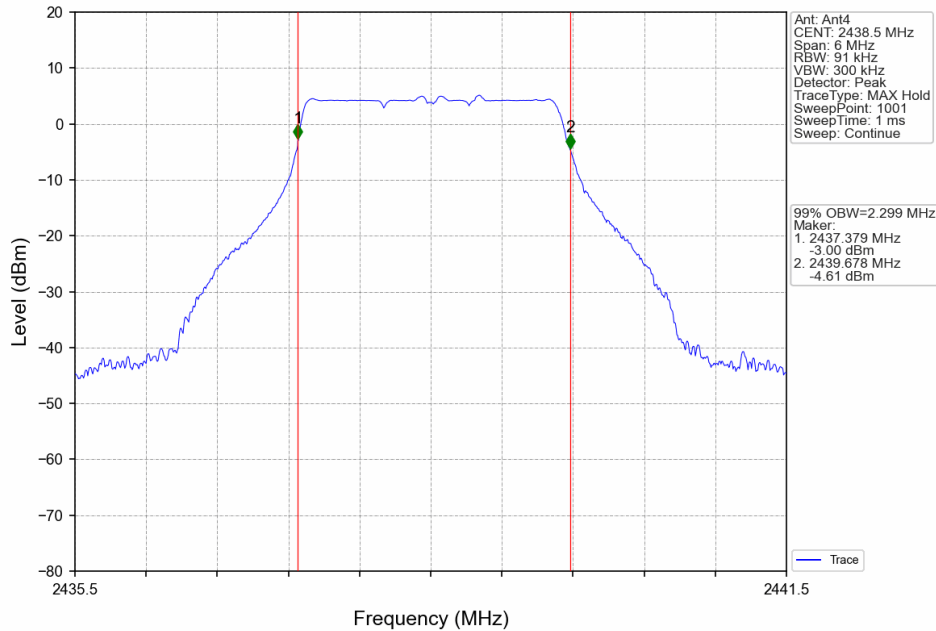
### 1.4M\_HCH\_2469.12MHz\_Ant4\_NTNV



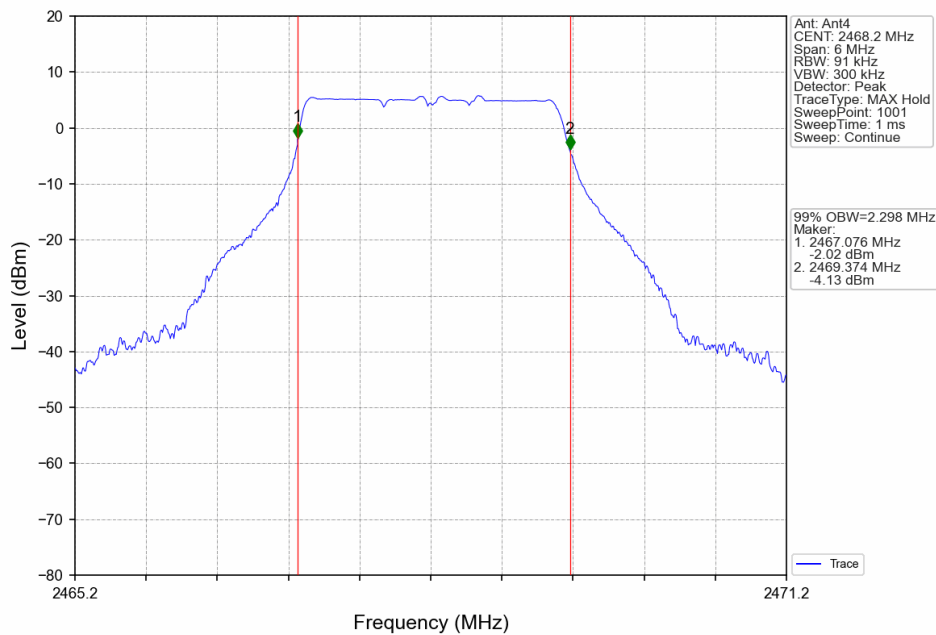
### 3M\_LCH\_2405.5MHz\_Ant4\_NTNV



3M\_MCH\_2438.5MHz\_Ant4\_NTNV



3M\_HCH\_2468.2MHz\_Ant4\_NTNV



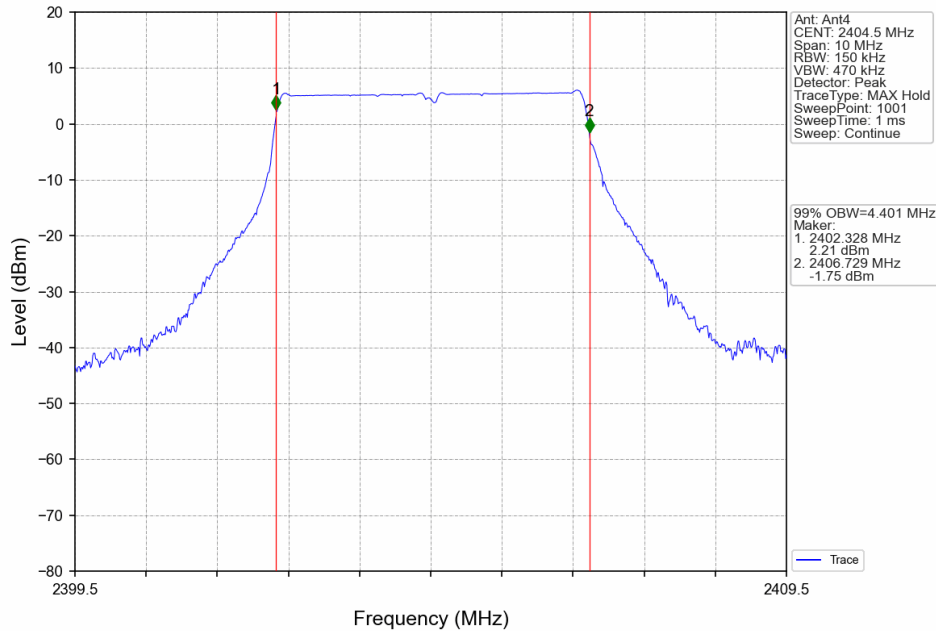
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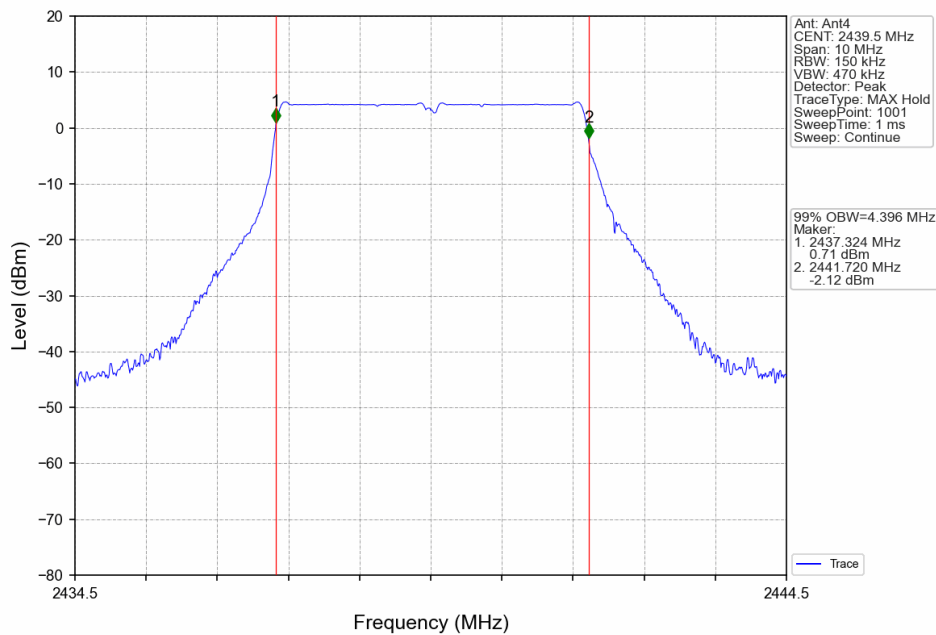
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Shenzhen Branch Testing Center EEC Laboratory.

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5M\_LCH\_2404.5MHz\_Ant4\_NTNV

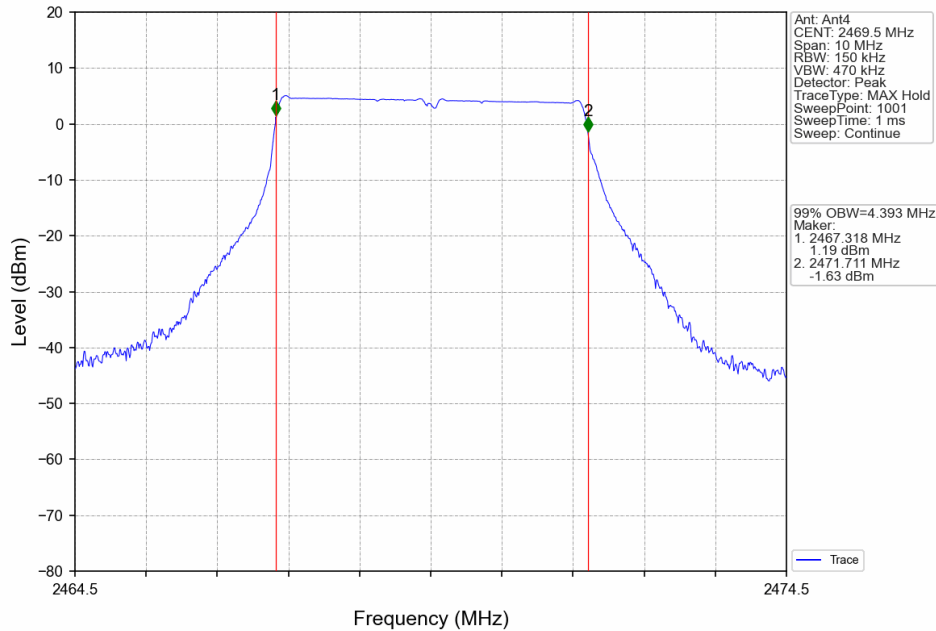


5M\_MCH\_2439.5MHz\_Ant4\_NTNV

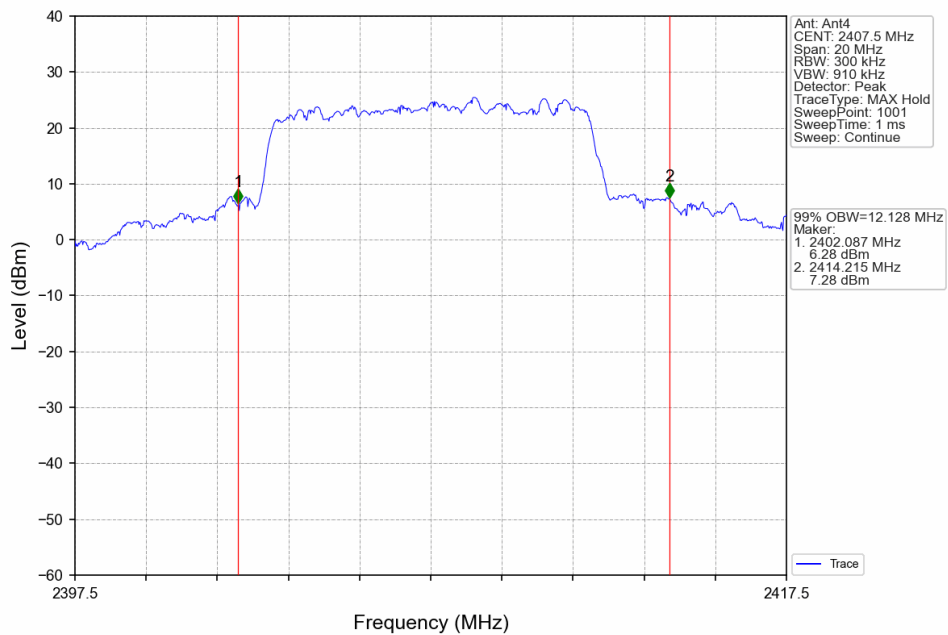




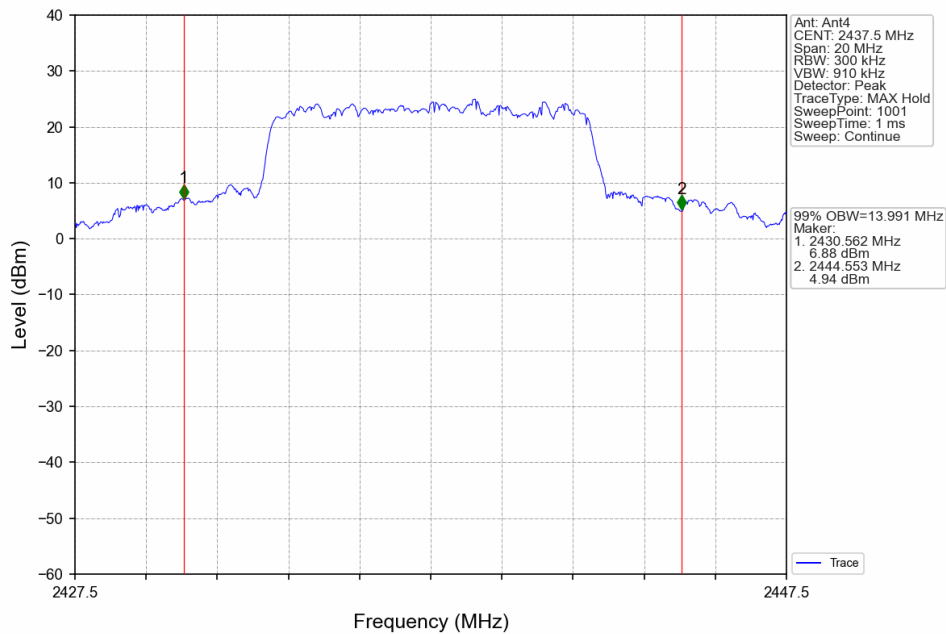
5M\_HCH\_2469.5MHz\_Ant4\_NTNV



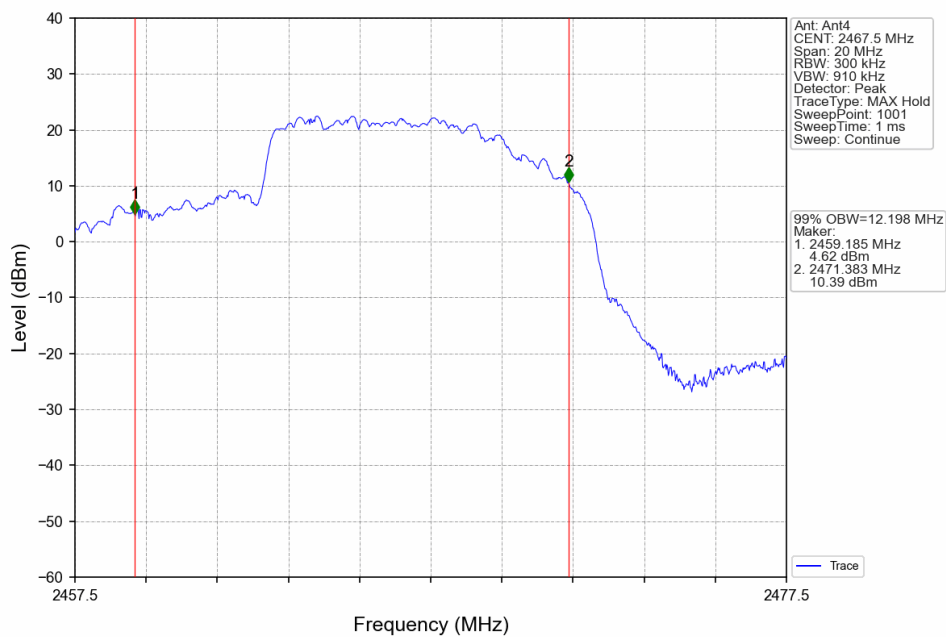
10M\_LCH\_2407.5MHz\_Ant4\_NTNV



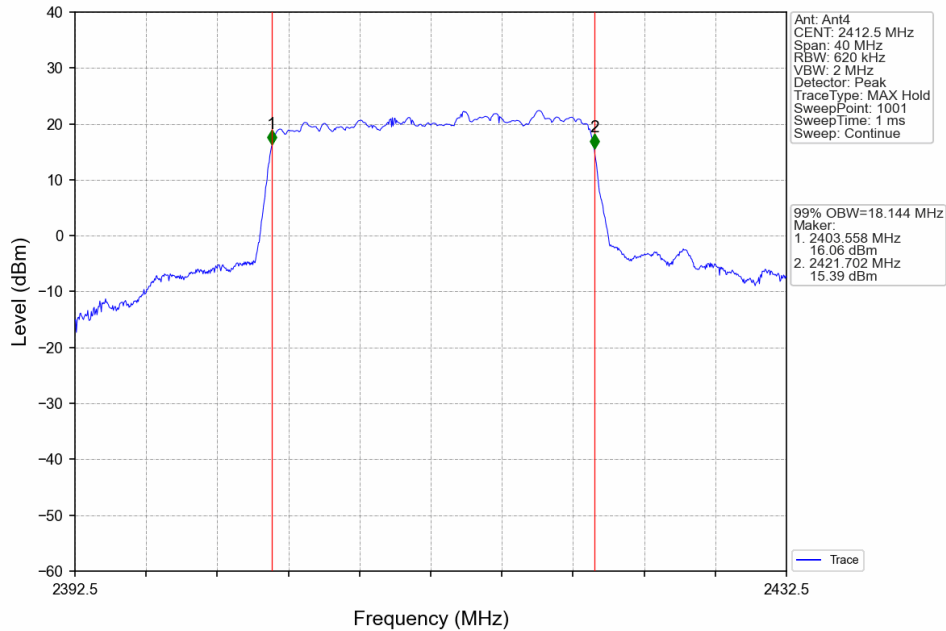
### 10M\_MCH\_2437.5MHz\_Ant4\_NTNV



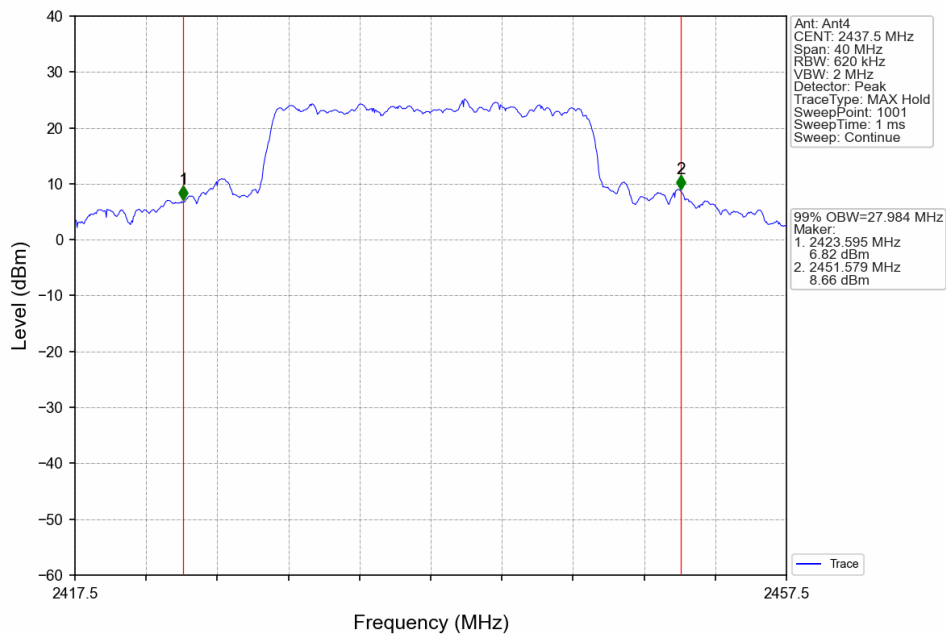
### 10M\_HCH\_2467.5MHz\_Ant4\_NTNV



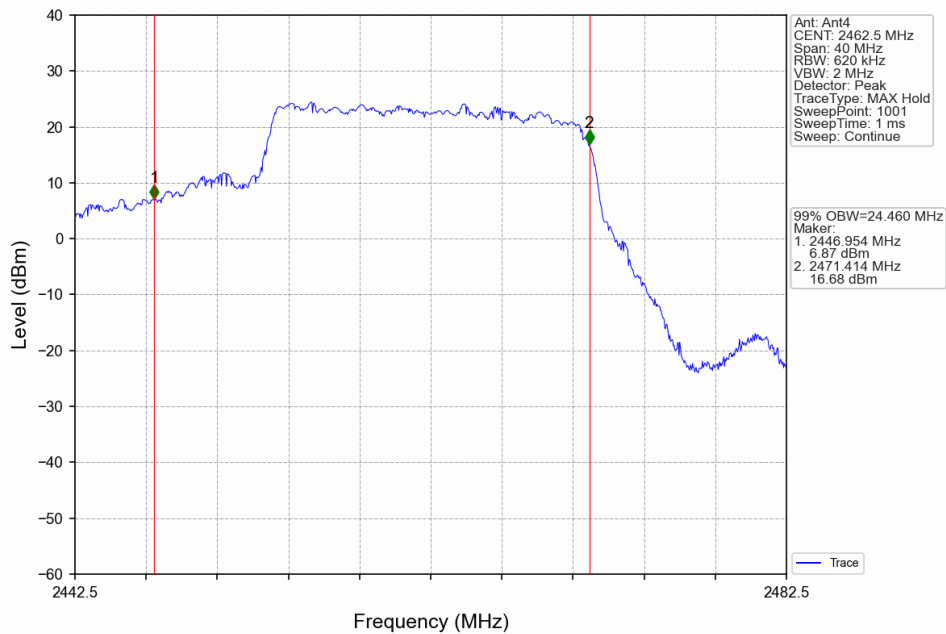
20M\_LCH\_2412.5MHz\_Ant4\_NTNV



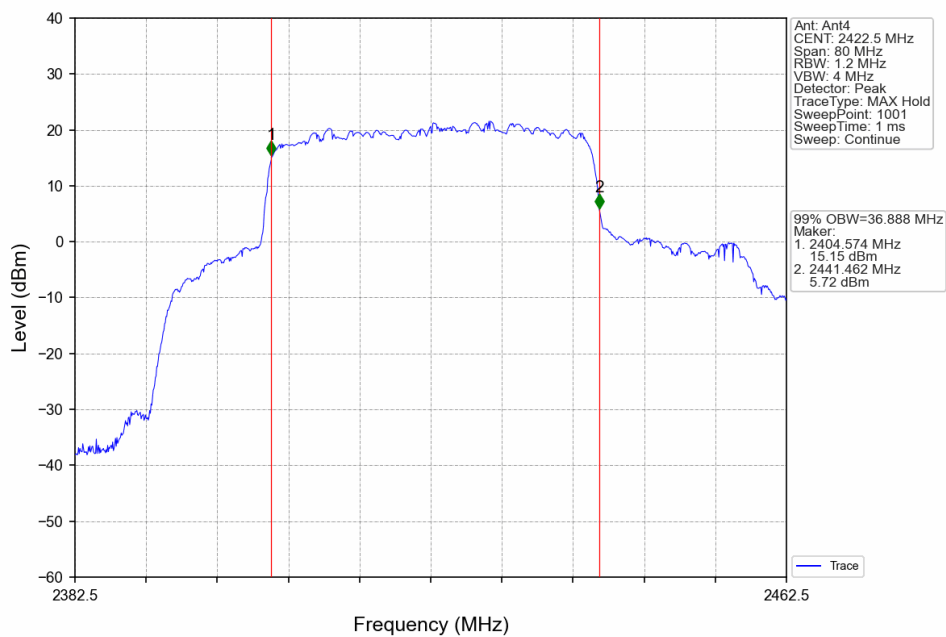
20M\_MCH\_2437.5MHz\_Ant4\_NTNV



### 20M\_HCH\_2462.5MHz\_Ant4\_NTNV



### 40M\_LCH\_2422.5MHz\_Ant4\_NTNV



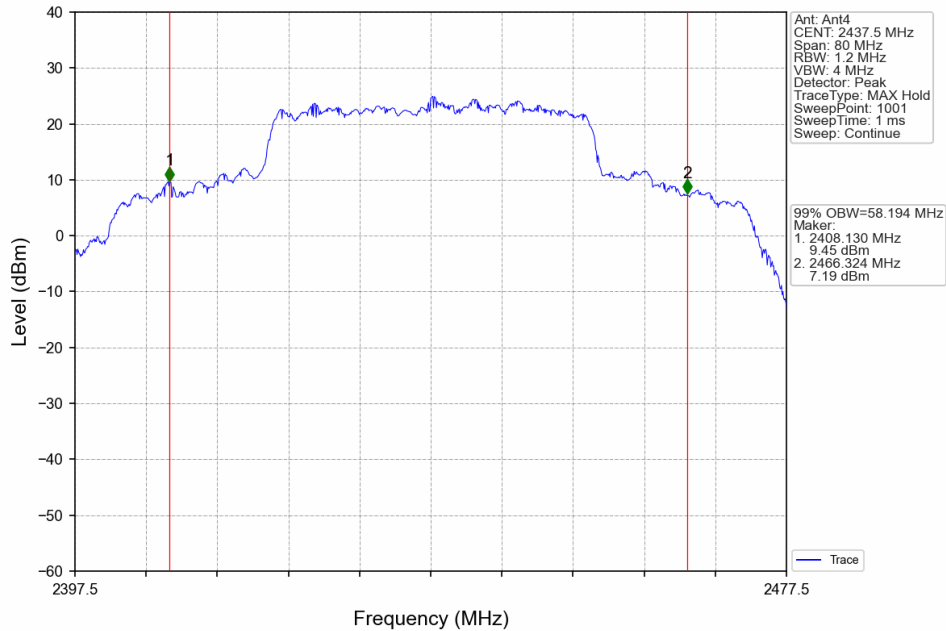
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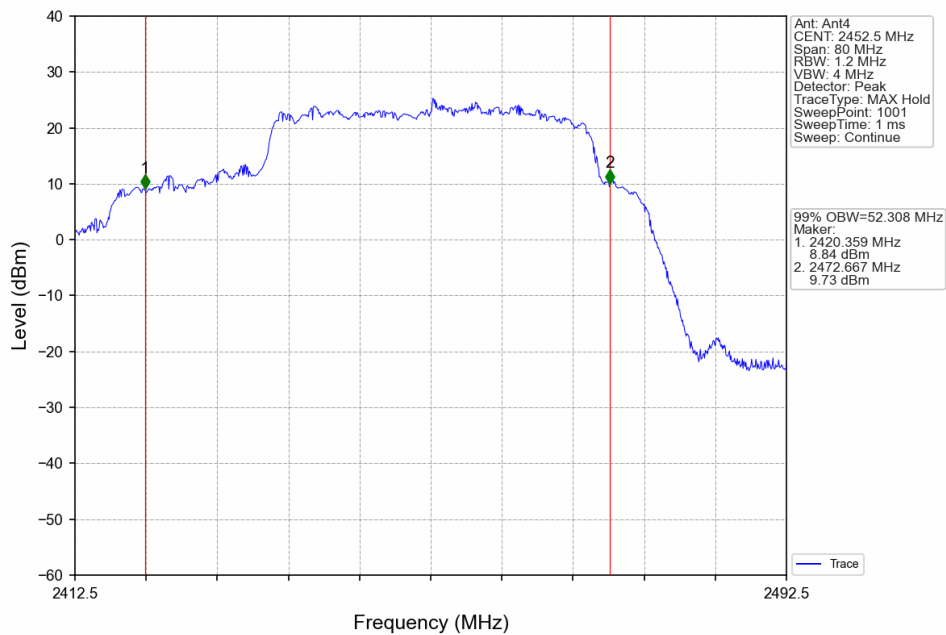
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### 40M\_MCH\_2437.5MHz\_Ant4\_NTNV



### 40M\_HCH\_2452.5MHz\_Ant4\_NTNV



# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

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## 2.2 6dB BW

### 2.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
|      |         |                 |     | Result              | Limit      |         |
| 1.4M | SISO    | 2403.5          | 4   | 1.114               | $\geq 0.5$ | Pass    |
|      |         | 2437.5          | 4   | 1.115               | $\geq 0.5$ | Pass    |
|      |         | 2469.12         | 4   | 1.113               | $\geq 0.5$ | Pass    |
| 3M   | SISO    | 2405.5          | 4   | 2.236               | $\geq 0.5$ | Pass    |
|      |         | 2438.5          | 4   | 2.225               | $\geq 0.5$ | Pass    |
|      |         | 2468.2          | 4   | 2.236               | $\geq 0.5$ | Pass    |
| 5M   | SISO    | 2404.5          | 4   | 4.356               | $\geq 0.5$ | Pass    |
|      |         | 2439.5          | 4   | 4.359               | $\geq 0.5$ | Pass    |
|      |         | 2469.5          | 4   | 4.352               | $\geq 0.5$ | Pass    |
| 10M  | SISO    | 2407.5          | 4   | 9.039               | $\geq 0.5$ | Pass    |
|      |         | 2437.5          | 4   | 9.034               | $\geq 0.5$ | Pass    |
|      |         | 2467.5          | 4   | 6.641               | $\geq 0.5$ | Pass    |
| 20M  | SISO    | 2412.5          | 4   | 17.988              | $\geq 0.5$ | Pass    |
|      |         | 2437.5          | 4   | 18.027              | $\geq 0.5$ | Pass    |
|      |         | 2462.5          | 4   | 17.636              | $\geq 0.5$ | Pass    |
| 40M  | SISO    | 2422.5          | 4   | 35.951              | $\geq 0.5$ | Pass    |
|      |         | 2437.5          | 4   | 36.052              | $\geq 0.5$ | Pass    |
|      |         | 2452.5          | 4   | 36.029              | $\geq 0.5$ | Pass    |

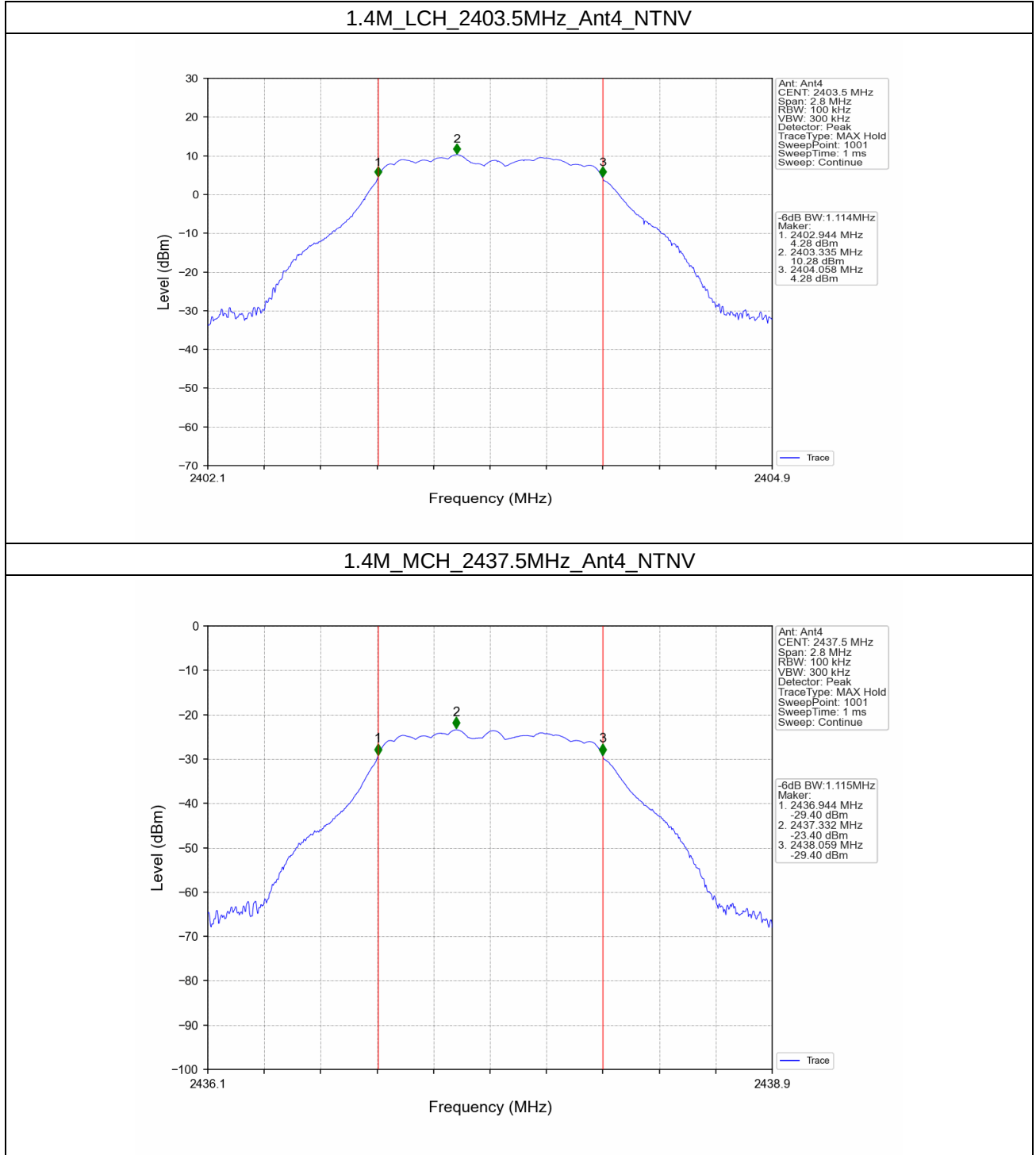


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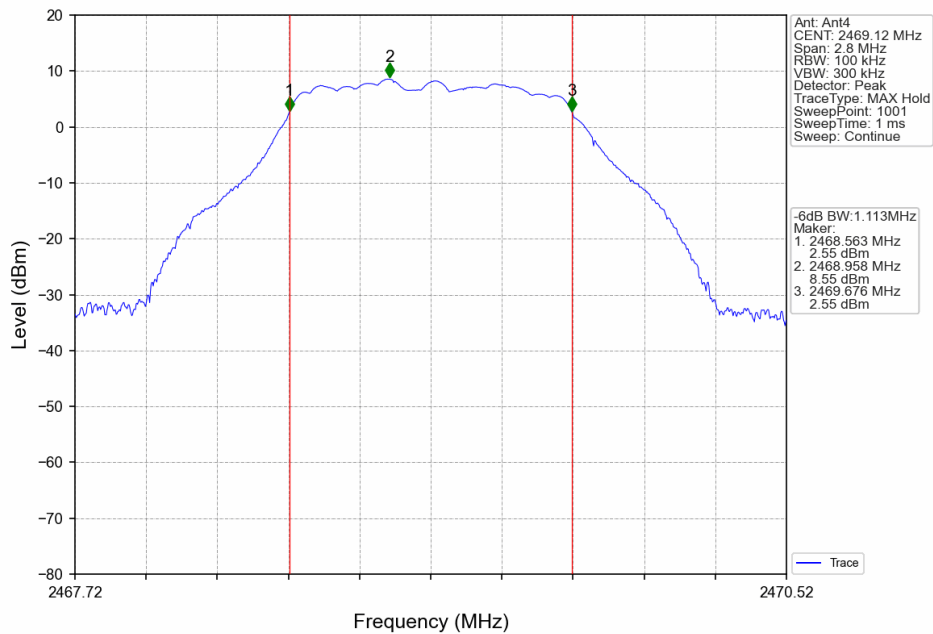
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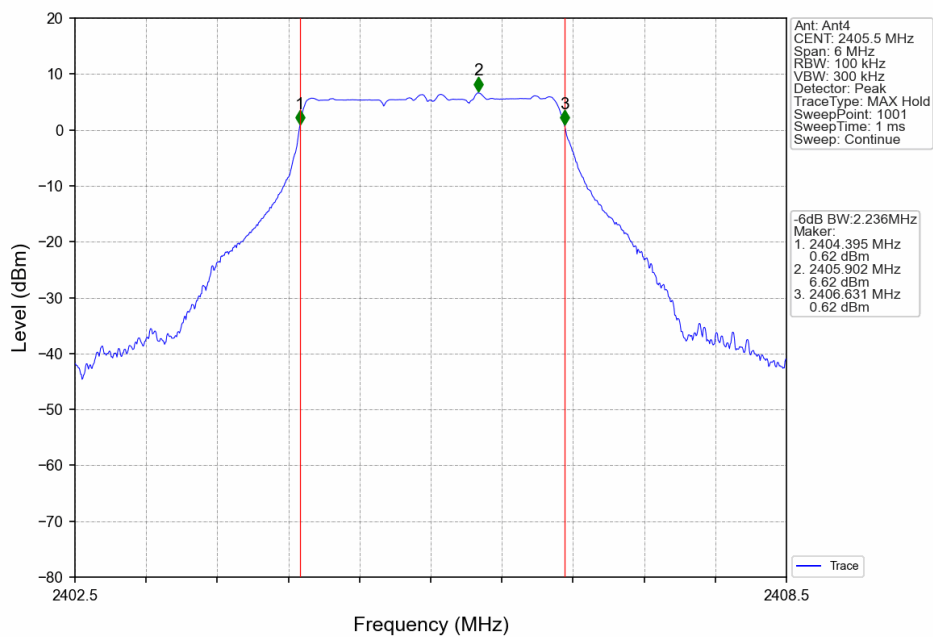
### 2.2.2 Test Graph



### 1.4M\_HCH\_2469.12MHz\_Ant4\_NTNV



### 3M\_LCH\_2405.5MHz\_Ant4\_NTNV



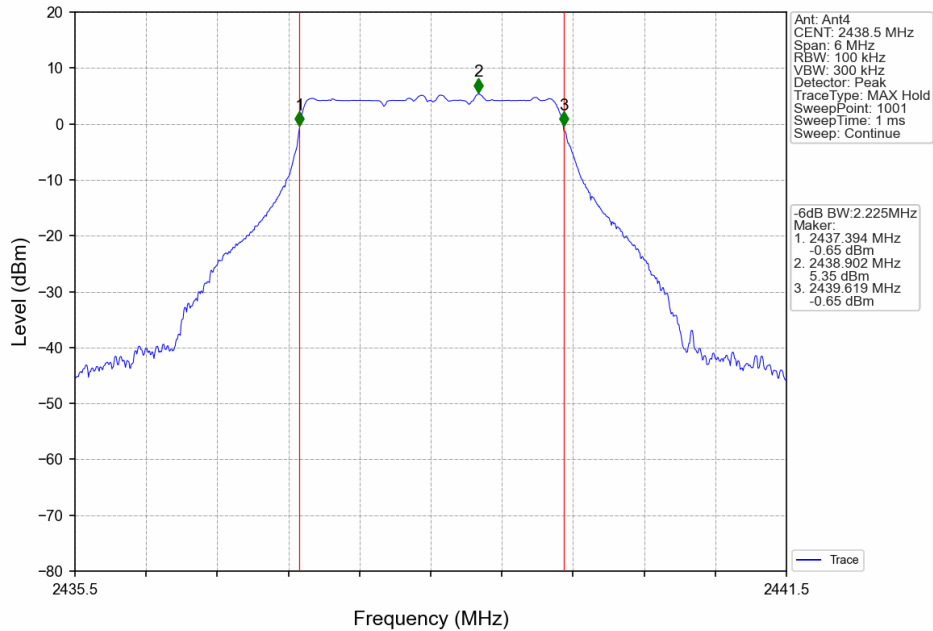
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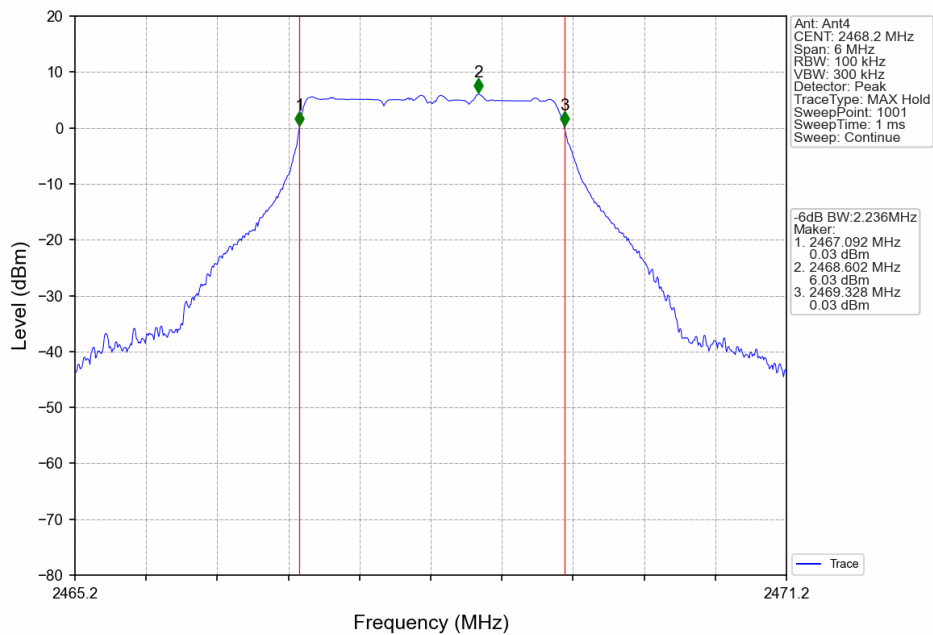
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### 3M\_MCH\_2438.5MHz\_Ant4\_NTNV



### 3M\_HCH\_2468.2MHz\_Ant4\_NTNV



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