

**2. Bandwidth**

**2.1 Test Result**

| Test Mode     | Frequency (MHz) | TX Type | ANT No. | Emission Bandwidth |                     | Verdict |
|---------------|-----------------|---------|---------|--------------------|---------------------|---------|
|               |                 |         |         | Test Result (MHz)  | Limits (MHz)        |         |
| 802.11a       | 5180            | SISO    | 1       | 20.159             | Only for Report Use | PASS    |
|               | 5200            | SISO    | 1       | 18.996             | Only for Report Use | PASS    |
|               | 5240            | SISO    | 1       | 18.885             | Only for Report Use | PASS    |
|               | 5260            | SISO    | 1       | 19.011             | Only for Report Use | PASS    |
|               | 5300            | SISO    | 1       | 18.678             | Only for Report Use | PASS    |
|               | 5320            | SISO    | 1       | 18.663             | Only for Report Use | PASS    |
|               | 5500            | SISO    | 1       | 18.760             | Only for Report Use | PASS    |
|               | 5580            | SISO    | 1       | 19.529             | Only for Report Use | PASS    |
|               | 5600            | SISO    | 1       | 18.903             | Only for Report Use | PASS    |
|               | 5700            | SISO    | 1       | 18.956             | Only for Report Use | PASS    |
| 802.11n(HT20) | 5180            | SISO    | 1       | 19.131             | Only for Report Use | PASS    |
|               | 5200            | SISO    | 1       | 19.059             | Only for Report Use | PASS    |
|               | 5240            | SISO    | 1       | 19.035             | Only for Report Use | PASS    |
|               | 5260            | SISO    | 1       | 19.052             | Only for Report Use | PASS    |
|               | 5300            | SISO    | 1       | 18.957             | Only for Report Use | PASS    |
|               | 5320            | SISO    | 1       | 18.969             | Only for Report Use | PASS    |
|               | 5500            | SISO    | 1       | 19.002             | Only for Report Use | PASS    |
|               | 5580            | SISO    | 1       | 19.000             | Only for Report Use | PASS    |
|               | 5600            | SISO    | 1       | 18.886             | Only for Report Use | PASS    |
|               | 5700            | SISO    | 1       | 19.061             | Only for Report     | PASS    |



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|               |      |      |   |        | Use                 |      |
|---------------|------|------|---|--------|---------------------|------|
| 802.11n(HT40) | 5190 | SISO | 1 | 38.976 | Only for Report Use | PASS |
|               | 5230 | SISO | 1 | 39.568 | Only for Report Use | PASS |
|               | 5270 | SISO | 1 | 39.241 | Only for Report Use | PASS |
|               | 5310 | SISO | 1 | 48.860 | Only for Report Use | PASS |
|               | 5510 | SISO | 1 | 39.792 | Only for Report Use | PASS |
|               | 5550 | SISO | 1 | 40.639 | Only for Report Use | PASS |
|               | 5590 | SISO | 1 | 39.503 | Only for Report Use | PASS |
|               | 5670 | SISO | 1 | 39.421 | Only for Report Use | PASS |

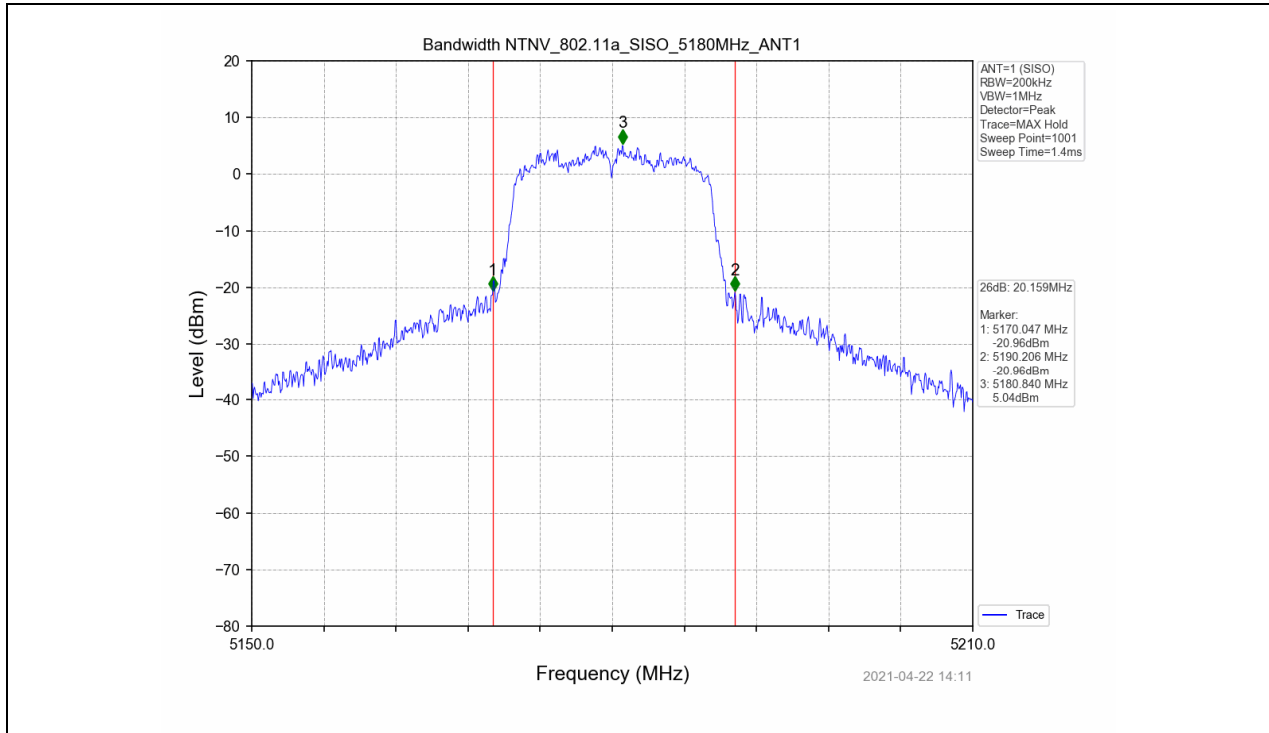
| Test Mode     | Frequency (MHz) | TX Type | ANT No. | 99% Occupied Bandwidth |                     |
|---------------|-----------------|---------|---------|------------------------|---------------------|
|               |                 |         |         | Test Result (MHz)      |                     |
| 802.11a       | 5180            | SISO    | 1       | 16.728                 | Only for Report Use |
|               | 5200            | SISO    | 1       | 16.557                 | Only for Report Use |
|               | 5240            | SISO    | 1       | 16.585                 | Only for Report Use |
|               | 5260            | SISO    | 1       | 16.657                 | Only for Report Use |
|               | 5300            | SISO    | 1       | 16.576                 | Only for Report Use |
|               | 5320            | SISO    | 1       | 16.667                 | Only for Report Use |
|               | 5500            | SISO    | 1       | 16.558                 | Only for Report Use |
|               | 5580            | SISO    | 1       | 16.599                 | Only for Report Use |
|               | 5600            | SISO    | 1       | 16.591                 | Only for Report Use |
|               | 5700            | SISO    | 1       | 16.592                 | Only for Report Use |
| 802.11n(HT20) | 5180            | SISO    | 1       | 17.607                 | Only for Report Use |
|               | 5200            | SISO    | 1       | 17.641                 | Only for Report Use |
|               | 5240            | SISO    | 1       | 17.653                 | Only for Report Use |
|               | 5260            | SISO    | 1       | 17.619                 | Only for Report Use |
|               | 5300            | SISO    | 1       | 16.577                 | Only for Report Use |
|               | 5320            | SISO    | 1       | 17.665                 | Only for Report Use |
|               | 5500            | SISO    | 1       | 17.609                 | Only for Report Use |
|               | 5580            | SISO    | 1       | 17.624                 | Only for Report Use |
|               | 5600            | SISO    | 1       | 17.635                 | Only for Report Use |
|               | 5700            | SISO    | 1       | 17.647                 | Only for Report Use |
| 802.11n(HT40) | 5190            | SISO    | 1       | 36.334                 | Only for Report Use |
|               | 5230            | SISO    | 1       | 36.347                 | Only for Report Use |



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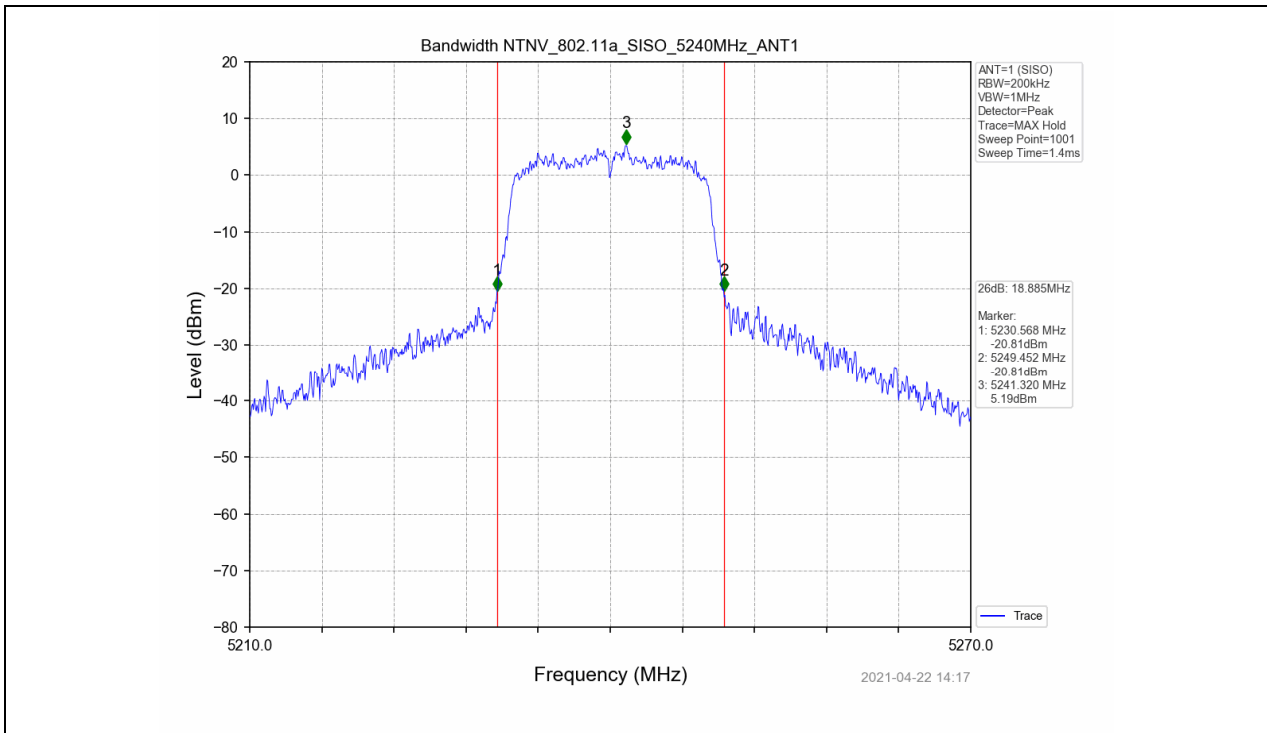
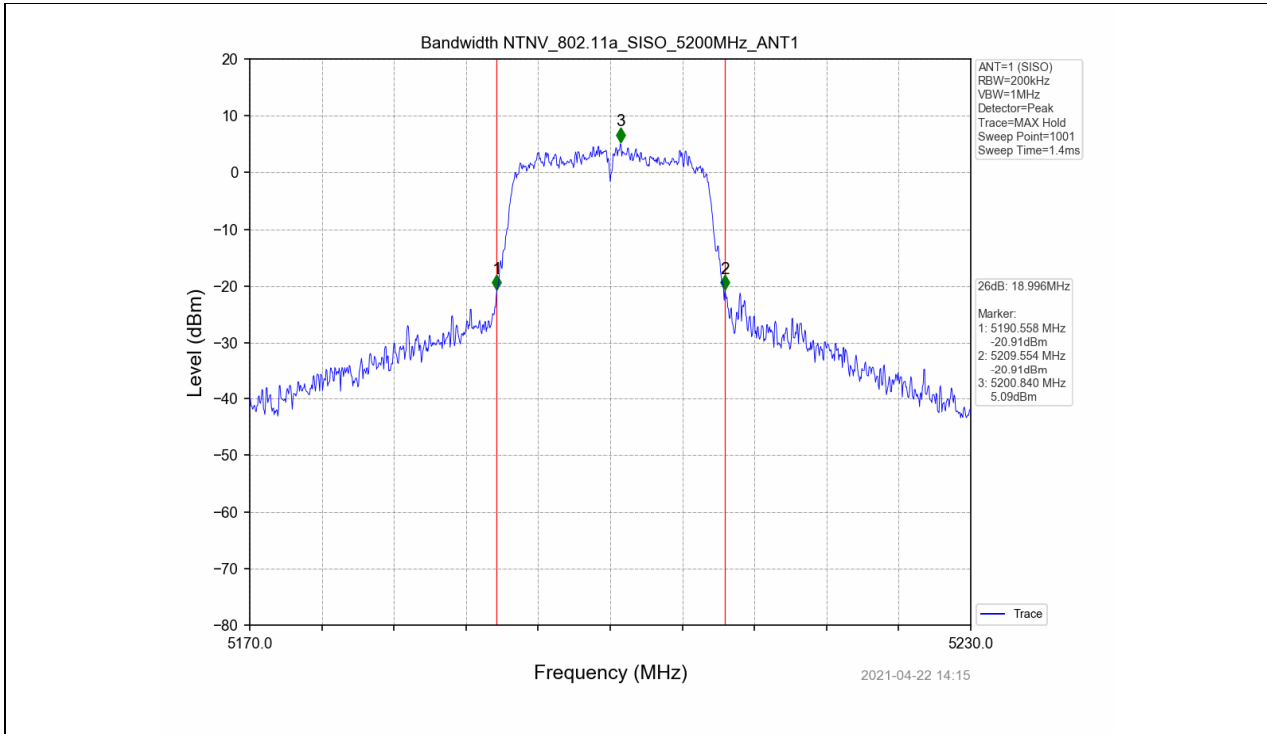
|  |      |      |   |        |                     |
|--|------|------|---|--------|---------------------|
|  | 5270 | SISO | 1 | 36.240 | Only for Report Use |
|  | 5310 | SISO | 1 | 36.333 | Only for Report Use |
|  | 5510 | SISO | 1 | 36.335 | Only for Report Use |
|  | 5550 | SISO | 1 | 36.276 | Only for Report Use |
|  | 5590 | SISO | 1 | 36.278 | Only for Report Use |
|  | 5670 | SISO | 1 | 36.446 | Only for Report Use |

**2.2 Test Graph - Emission Bandwidth**



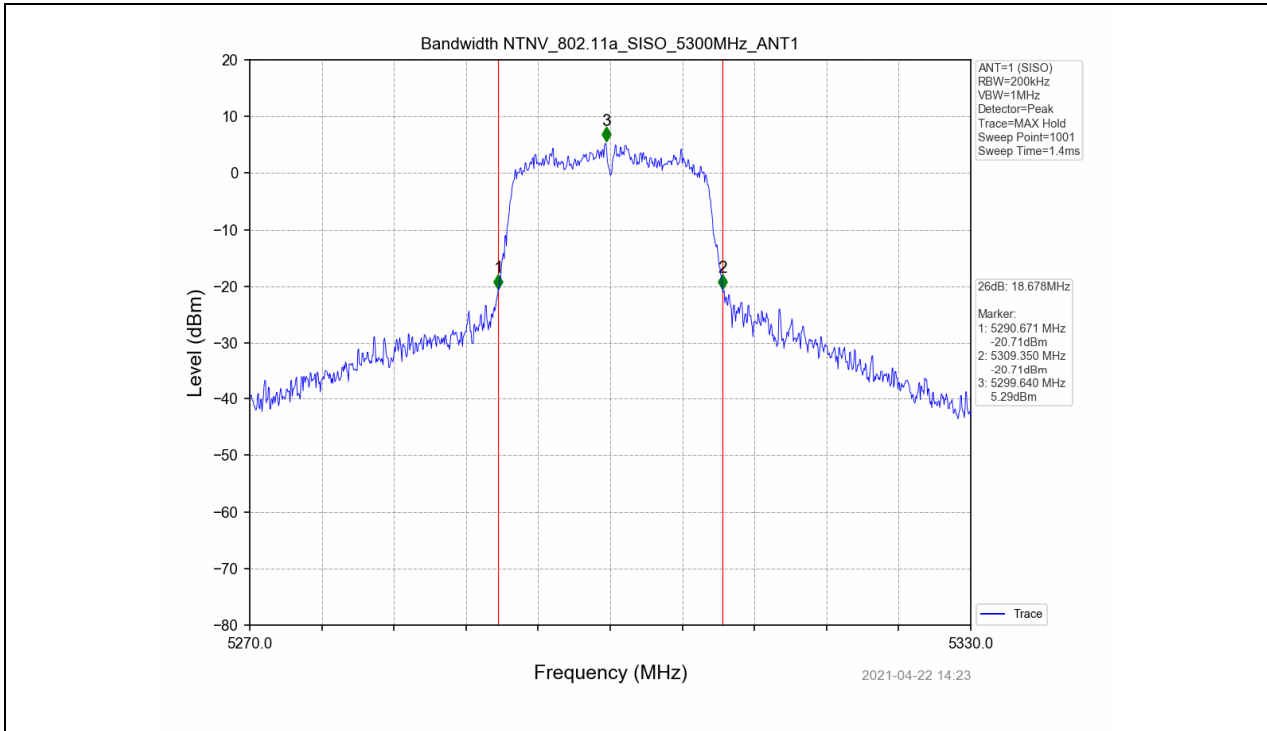
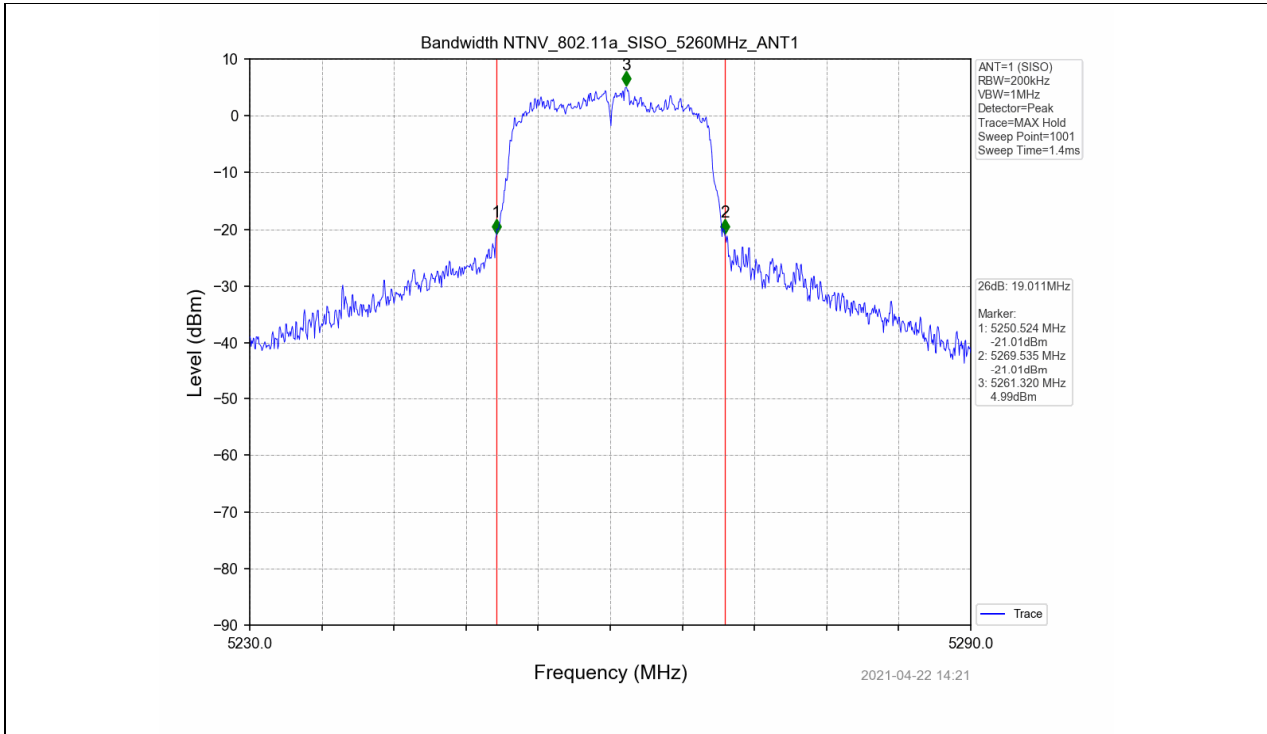
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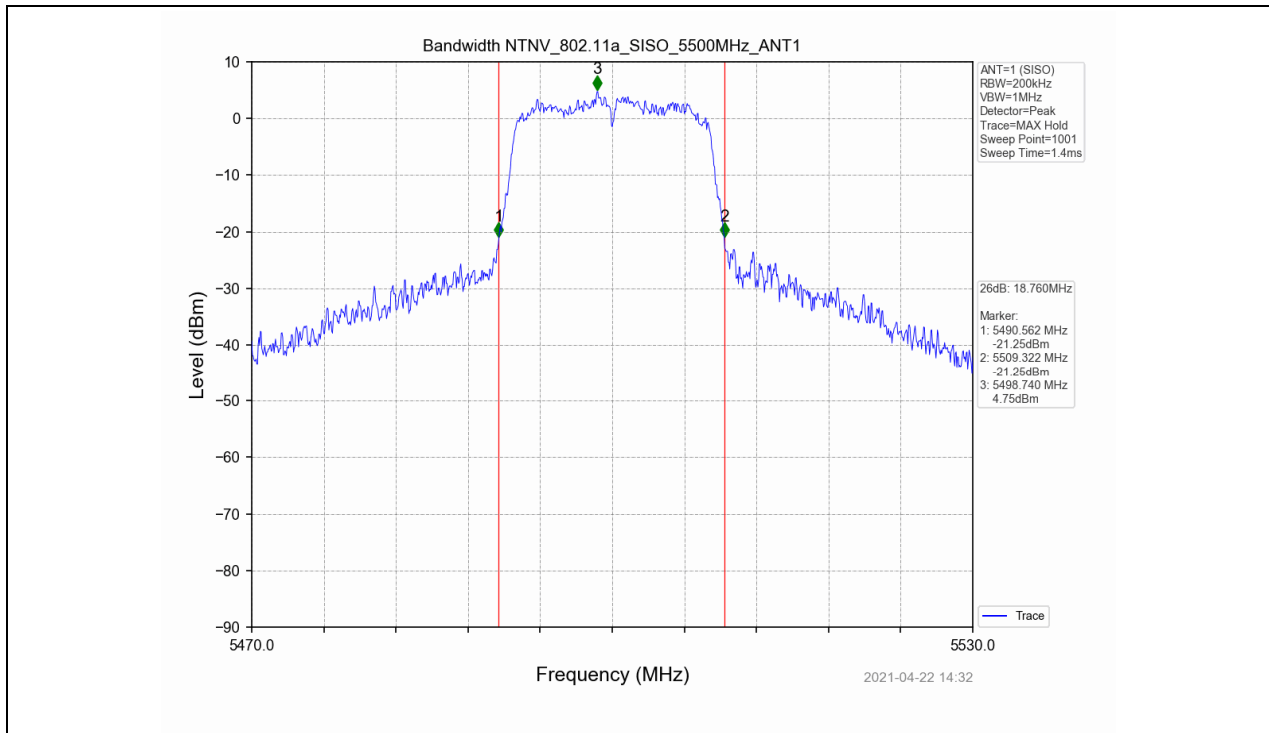
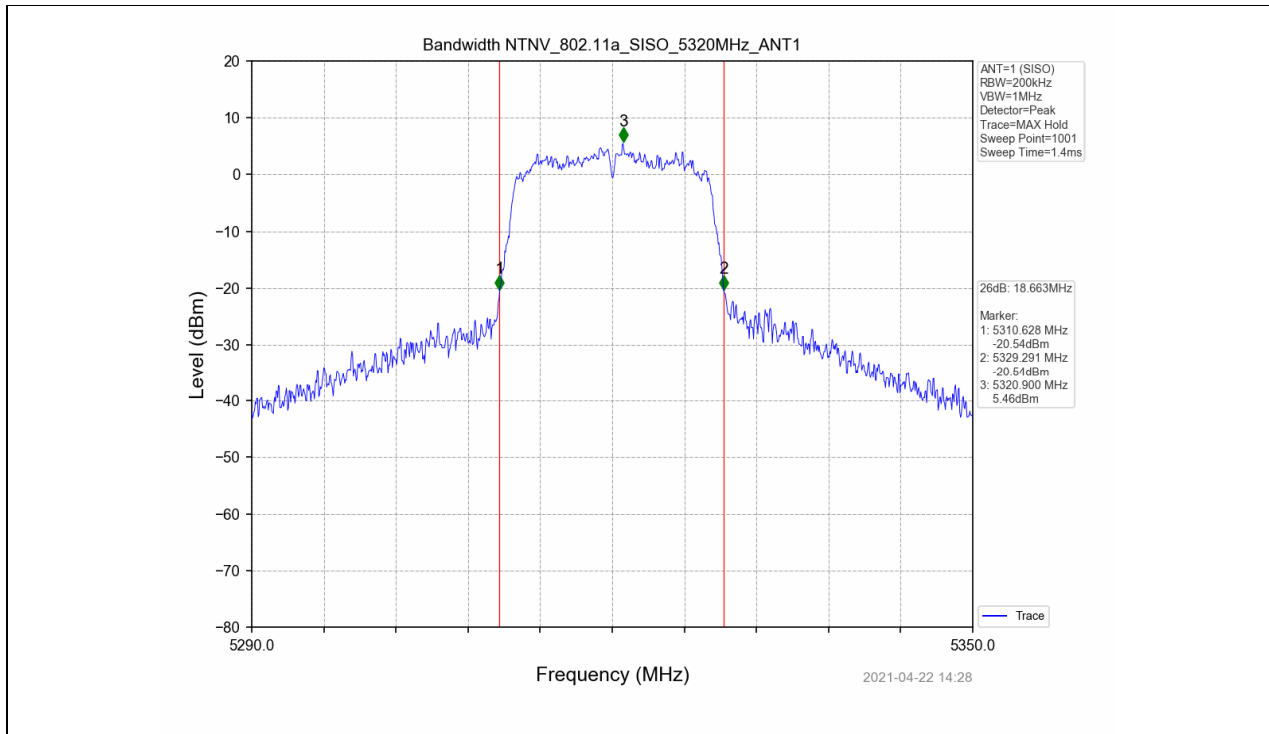
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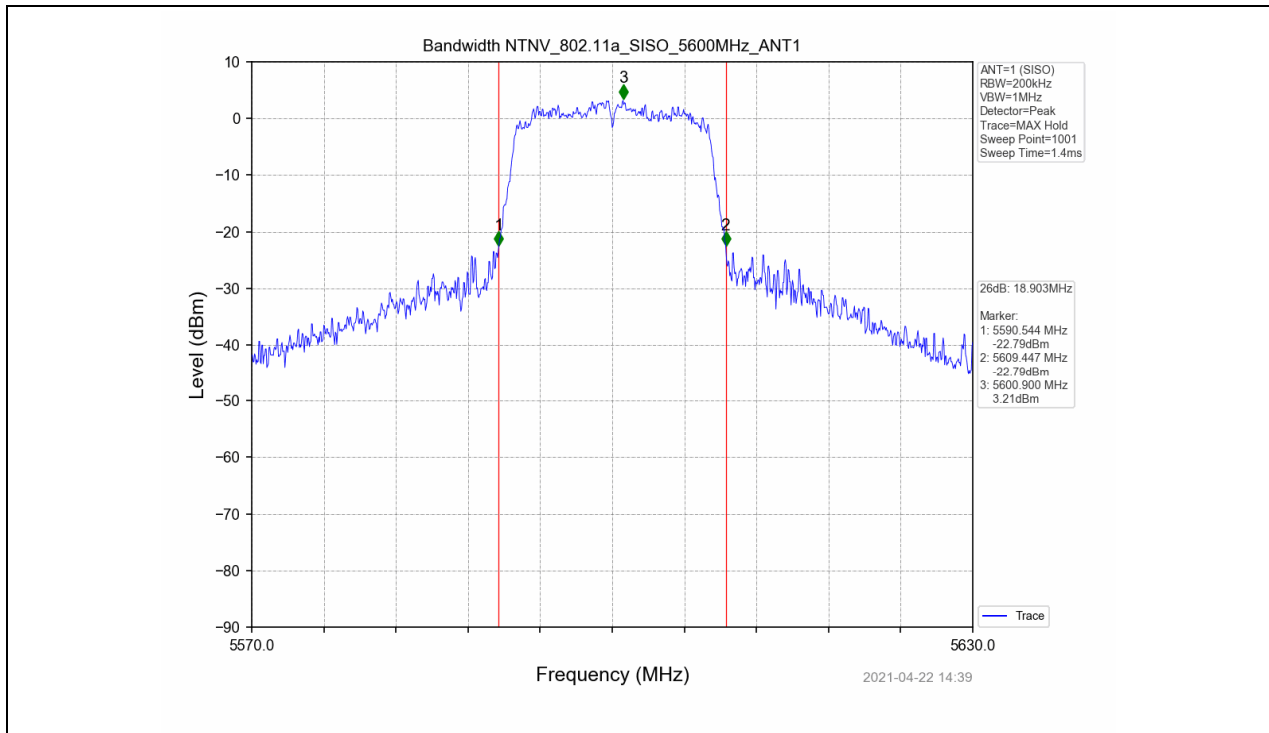
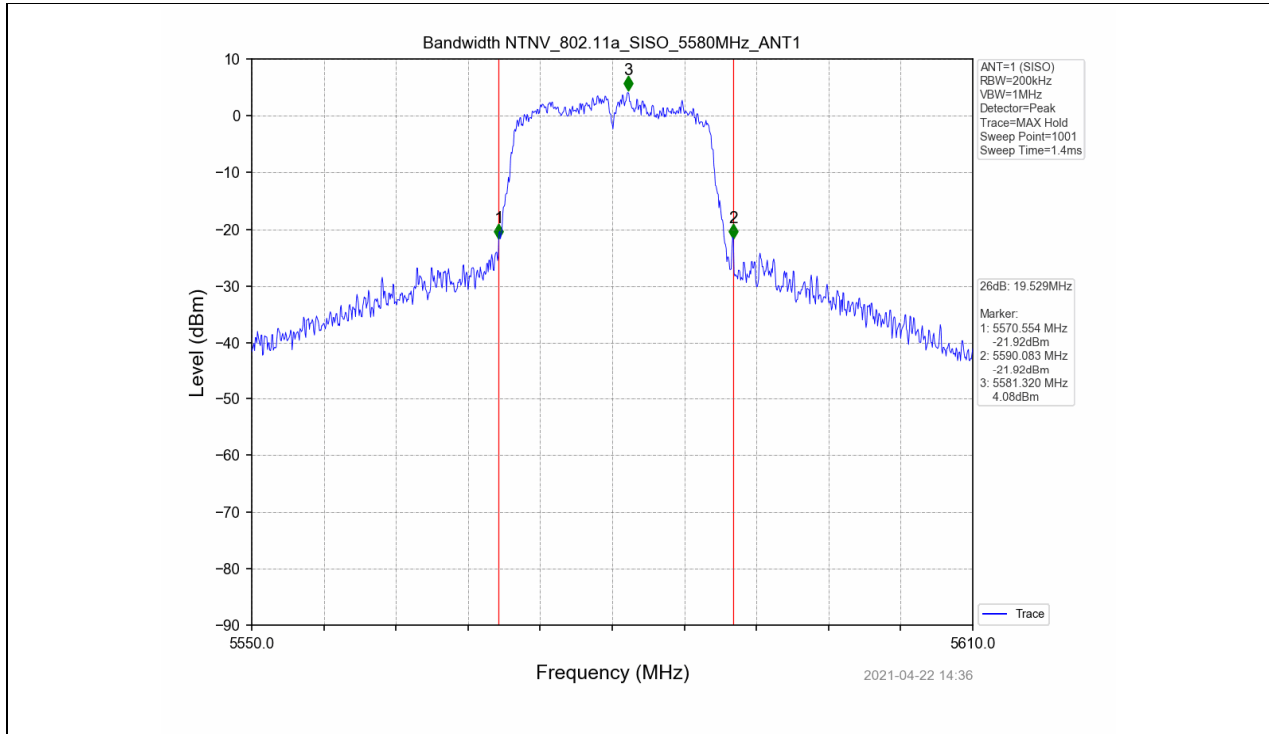
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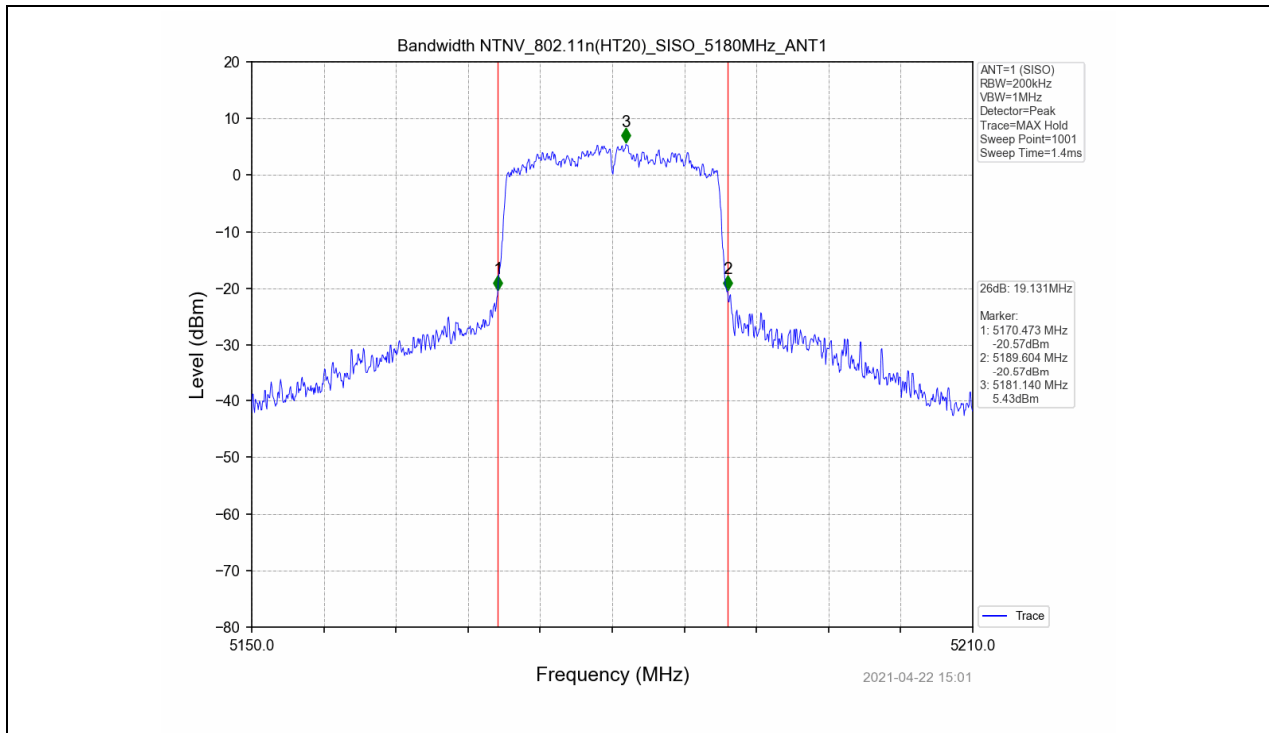
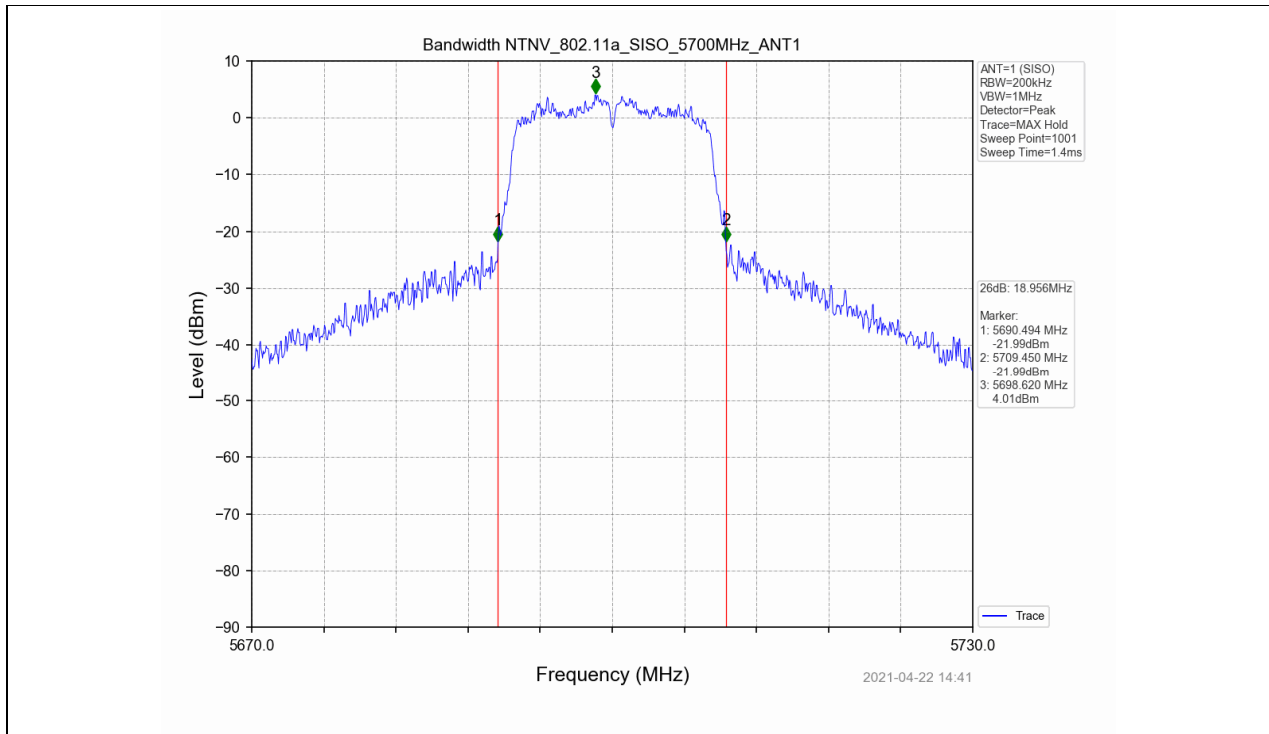
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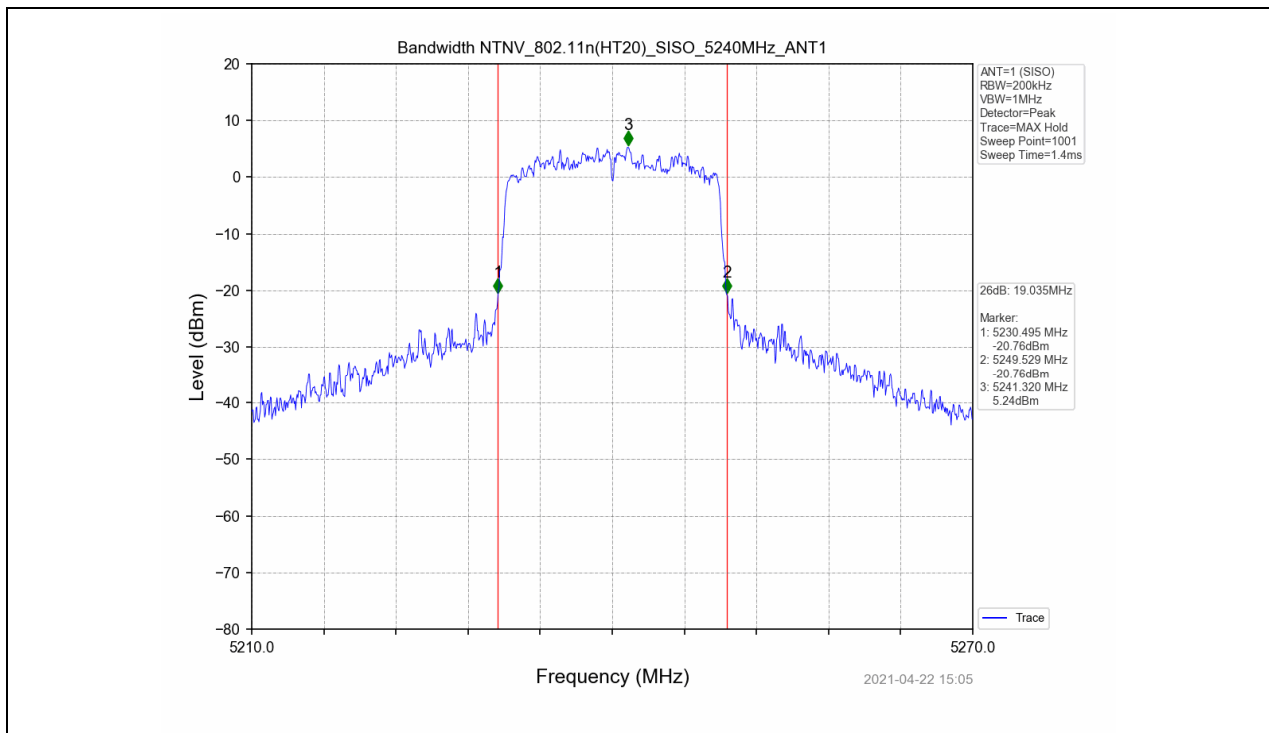
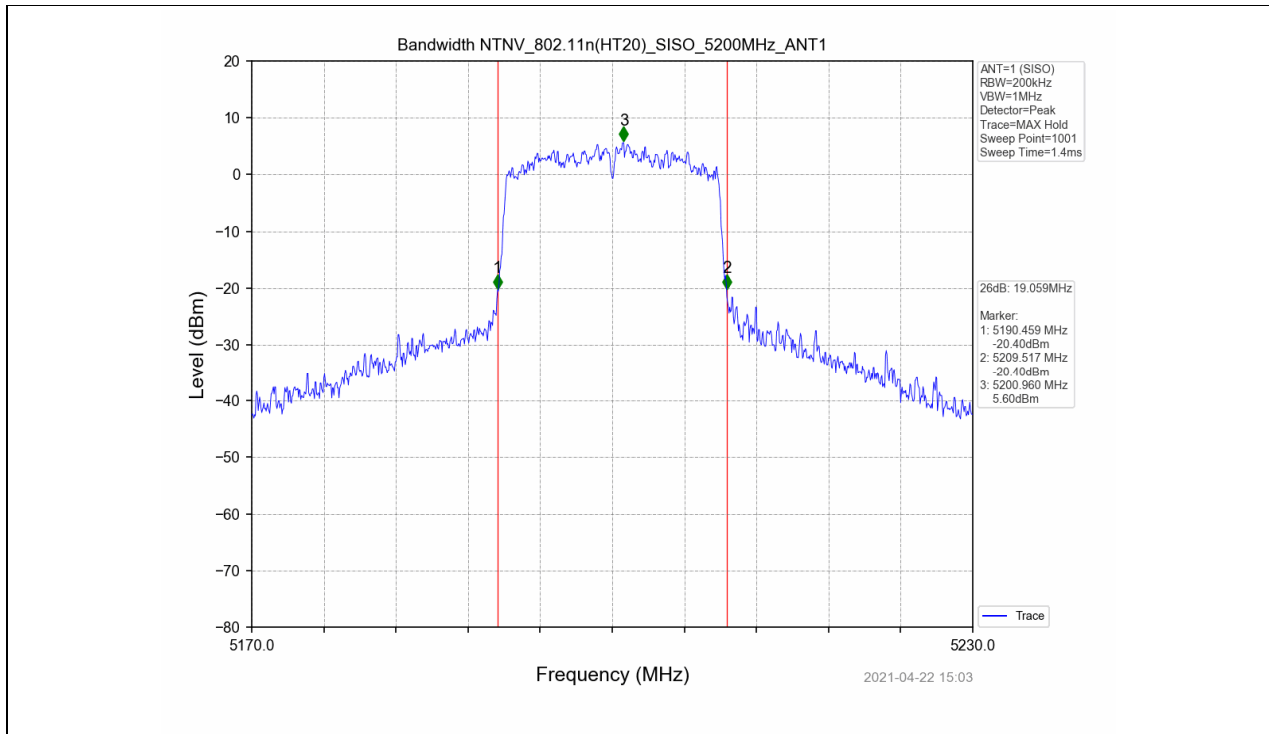
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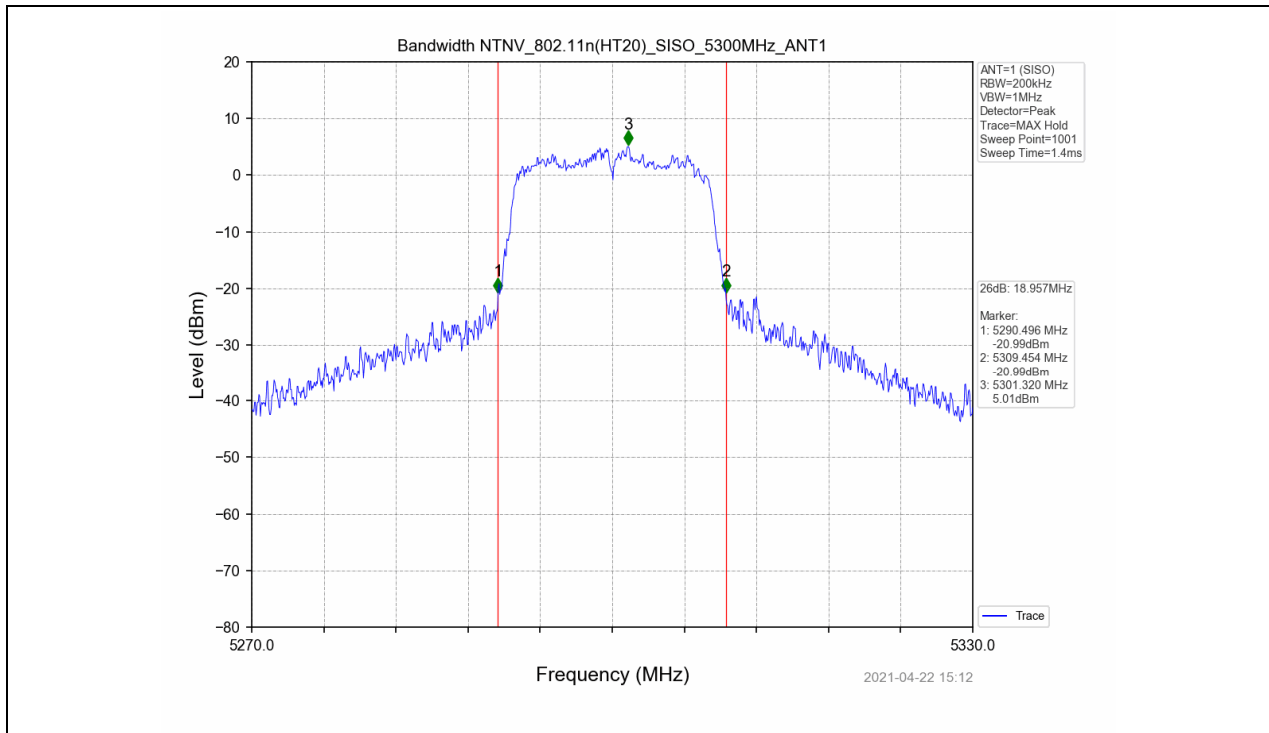
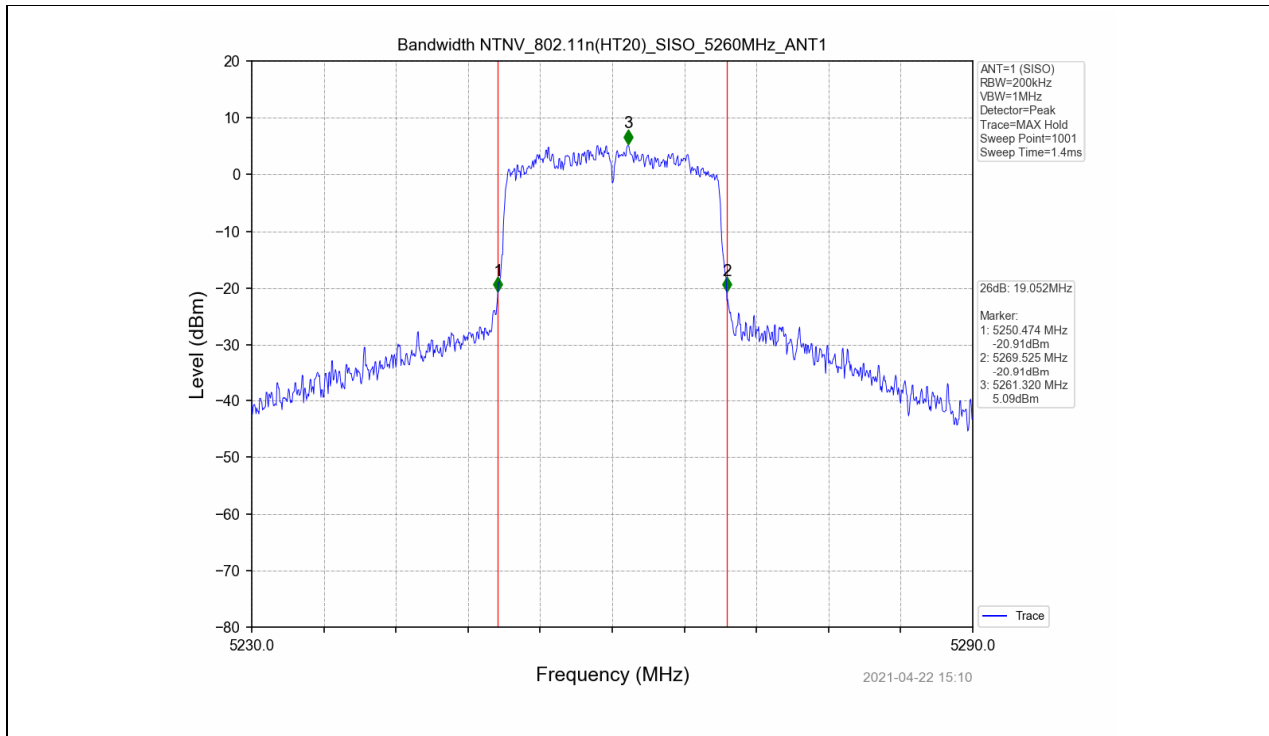




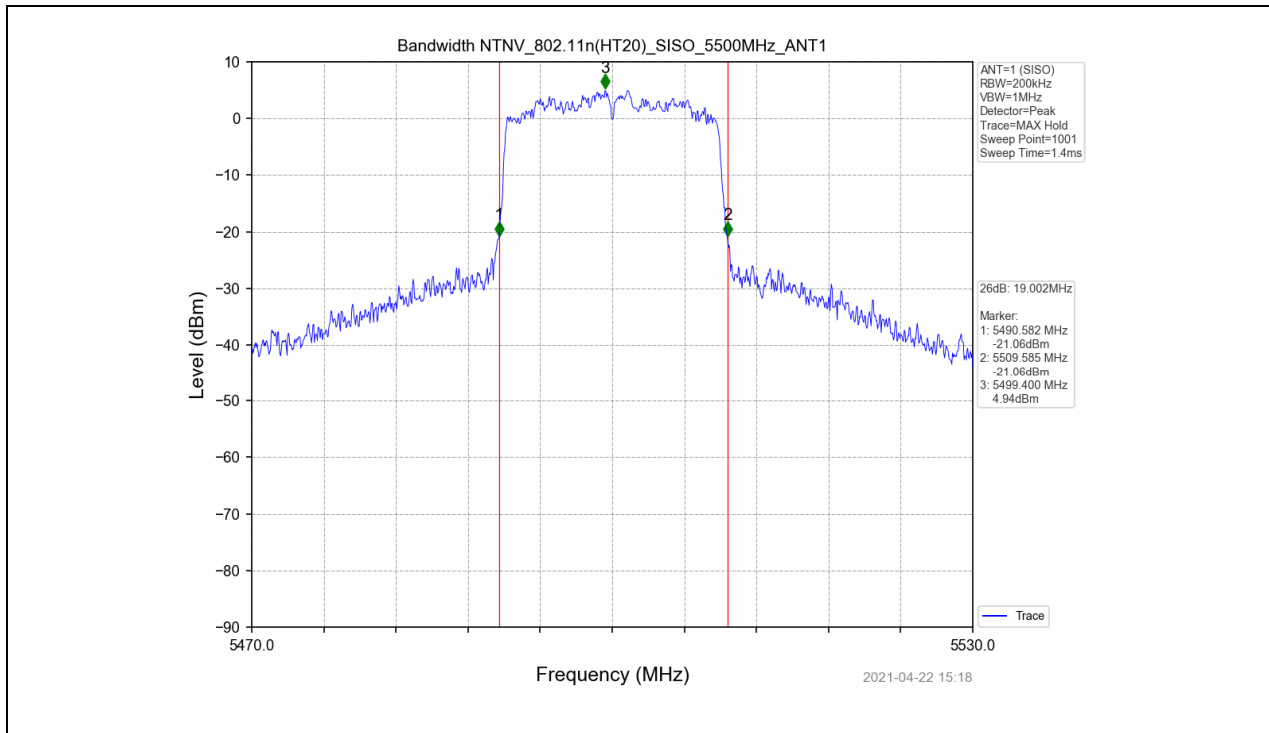
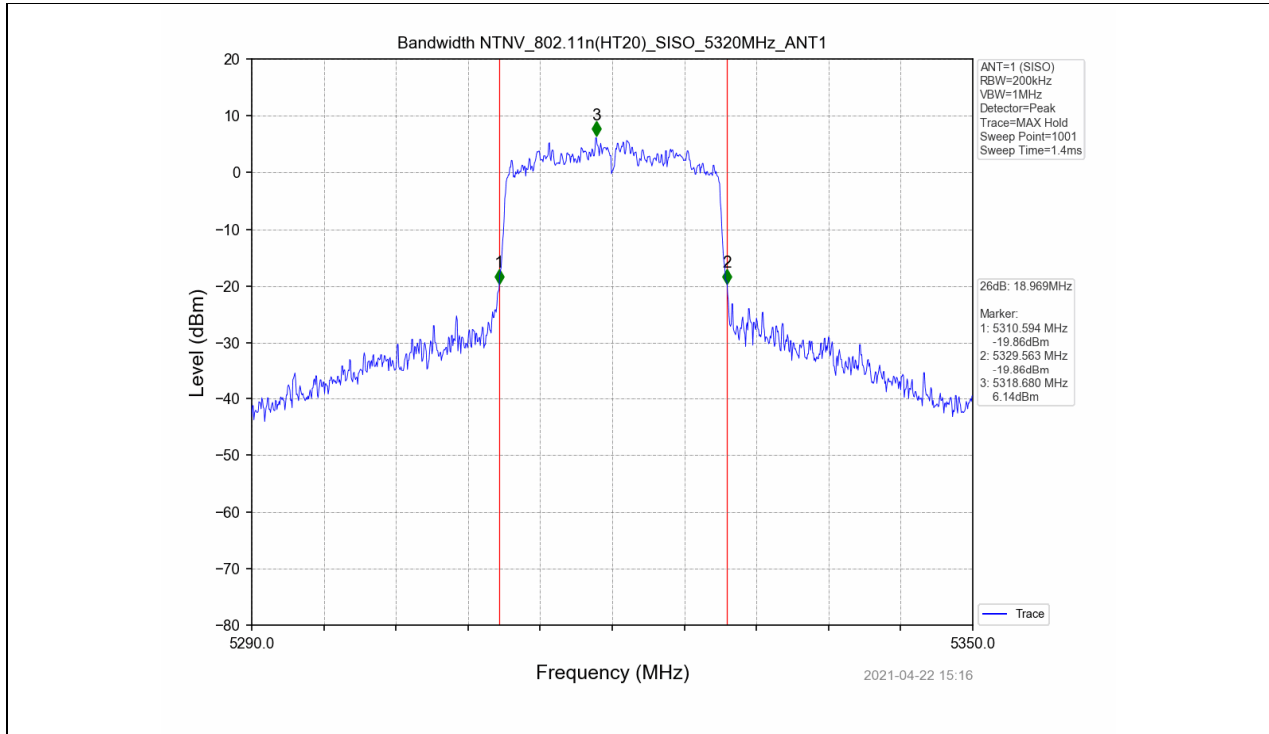
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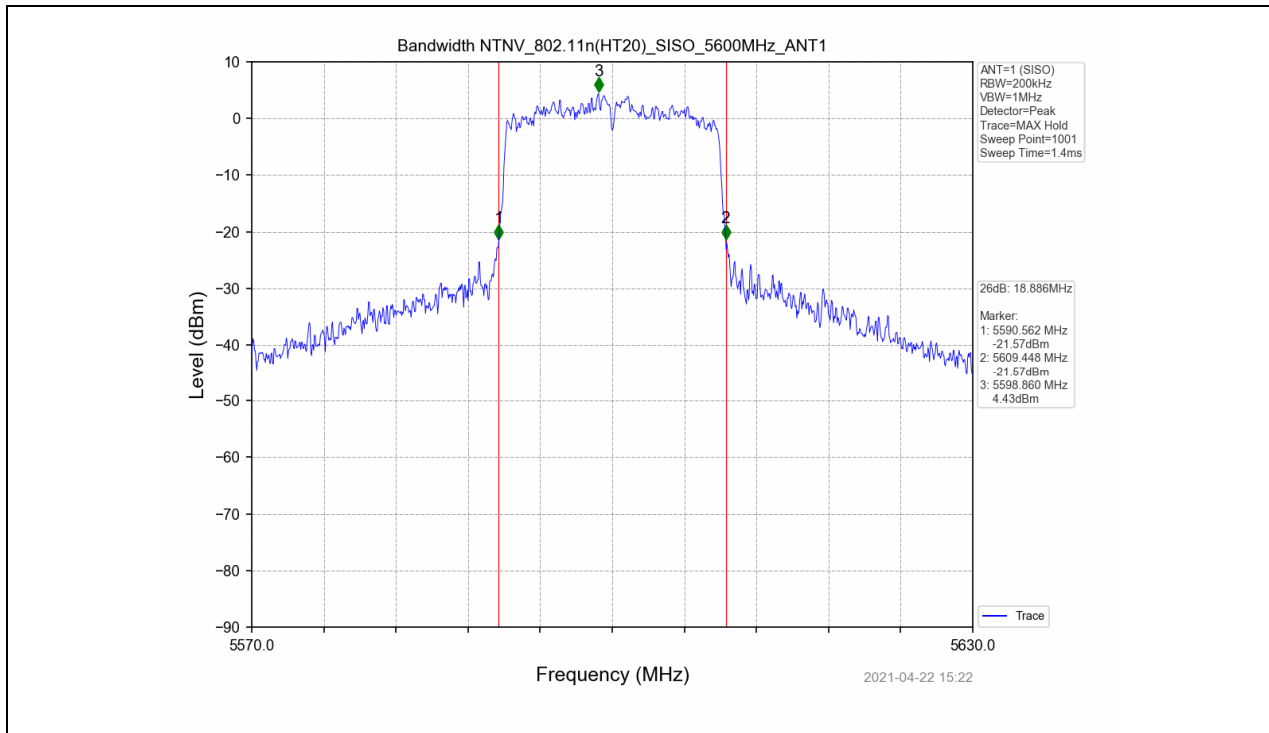
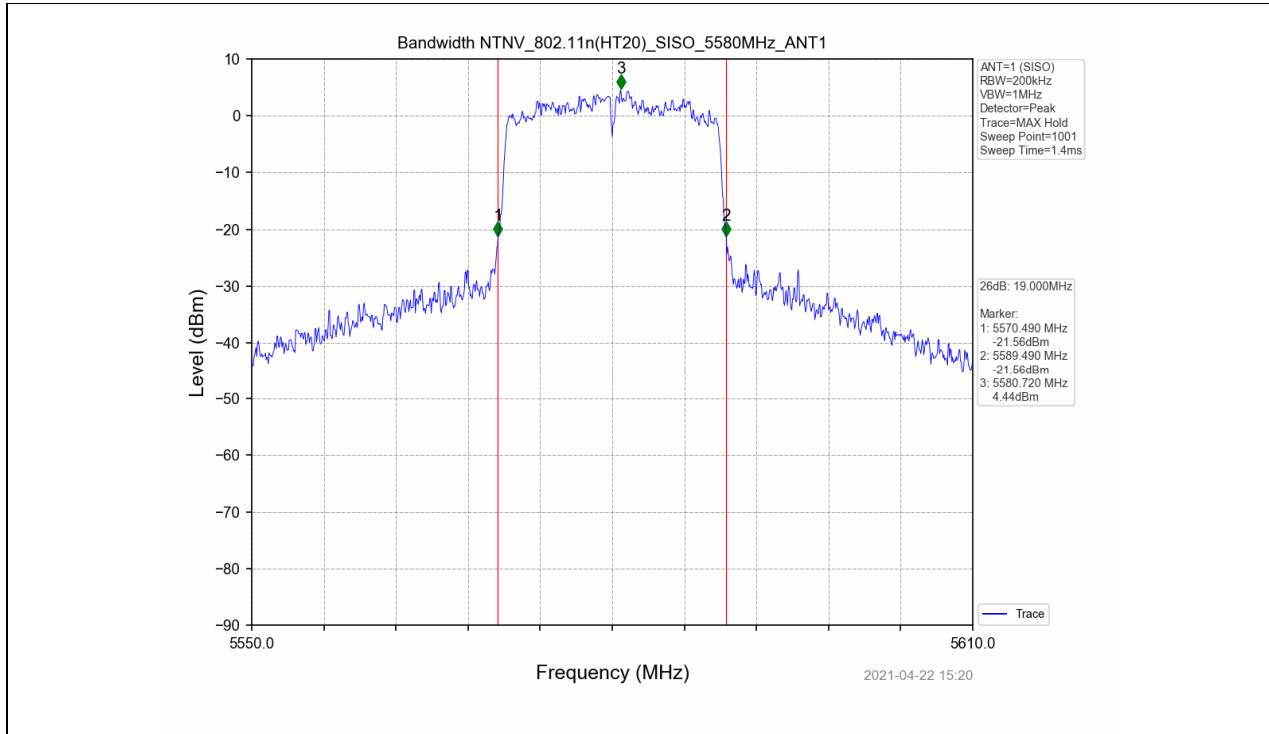


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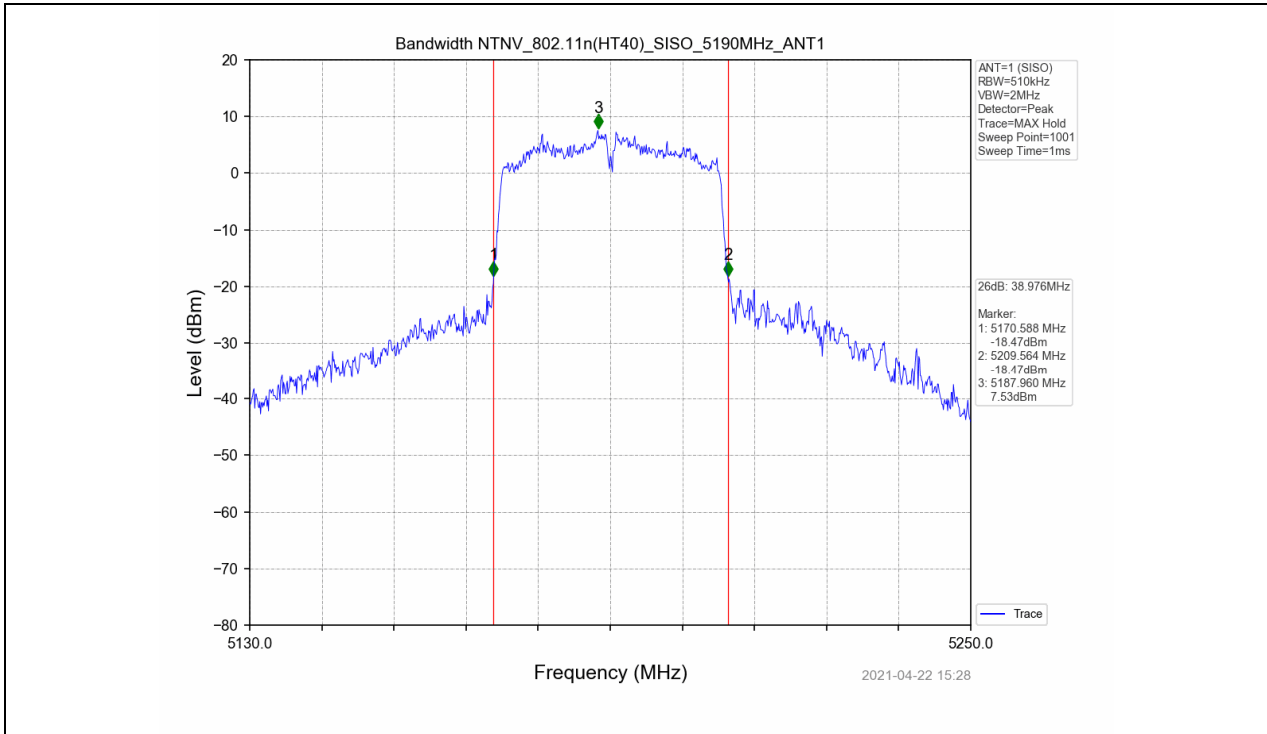
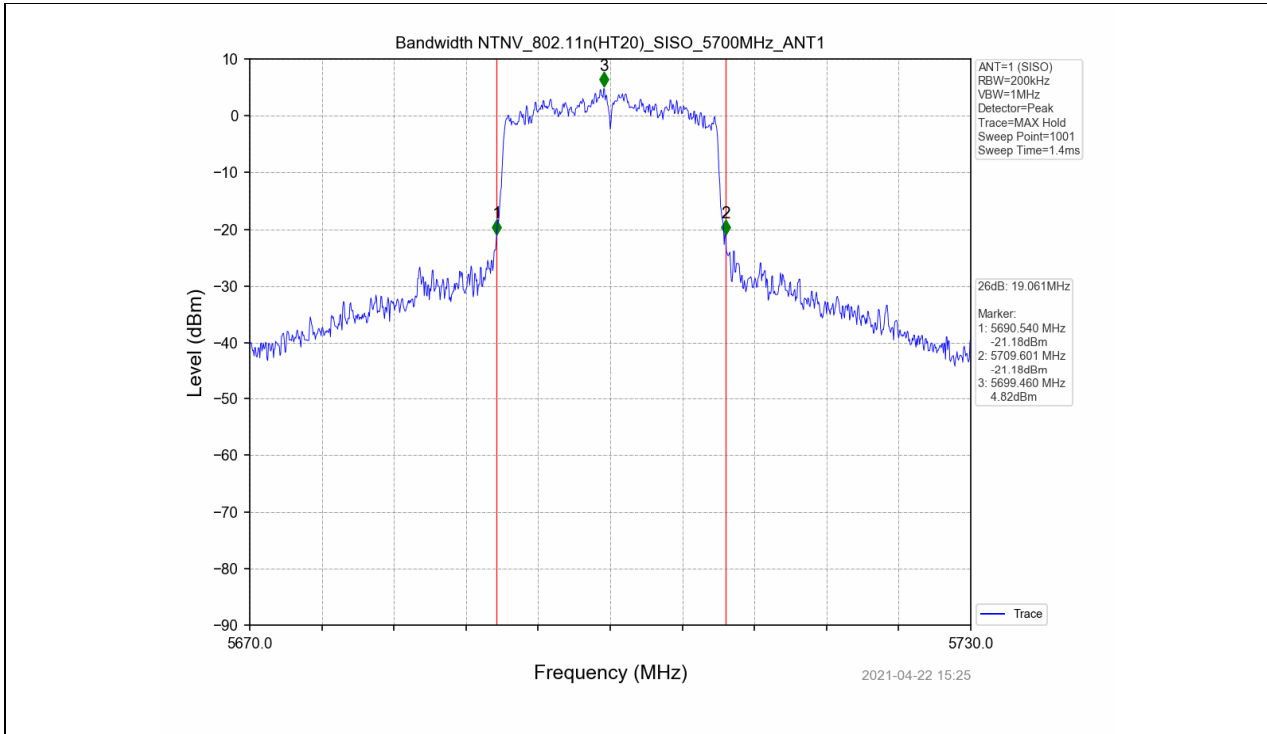
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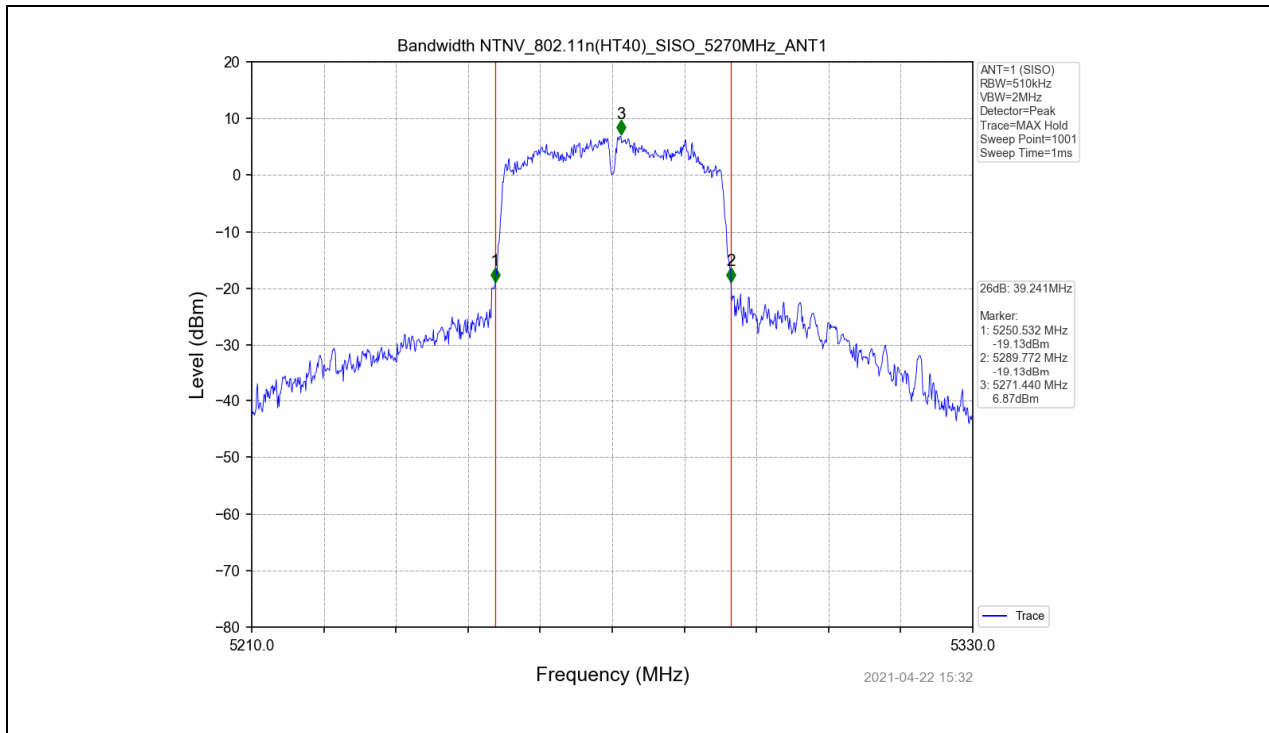
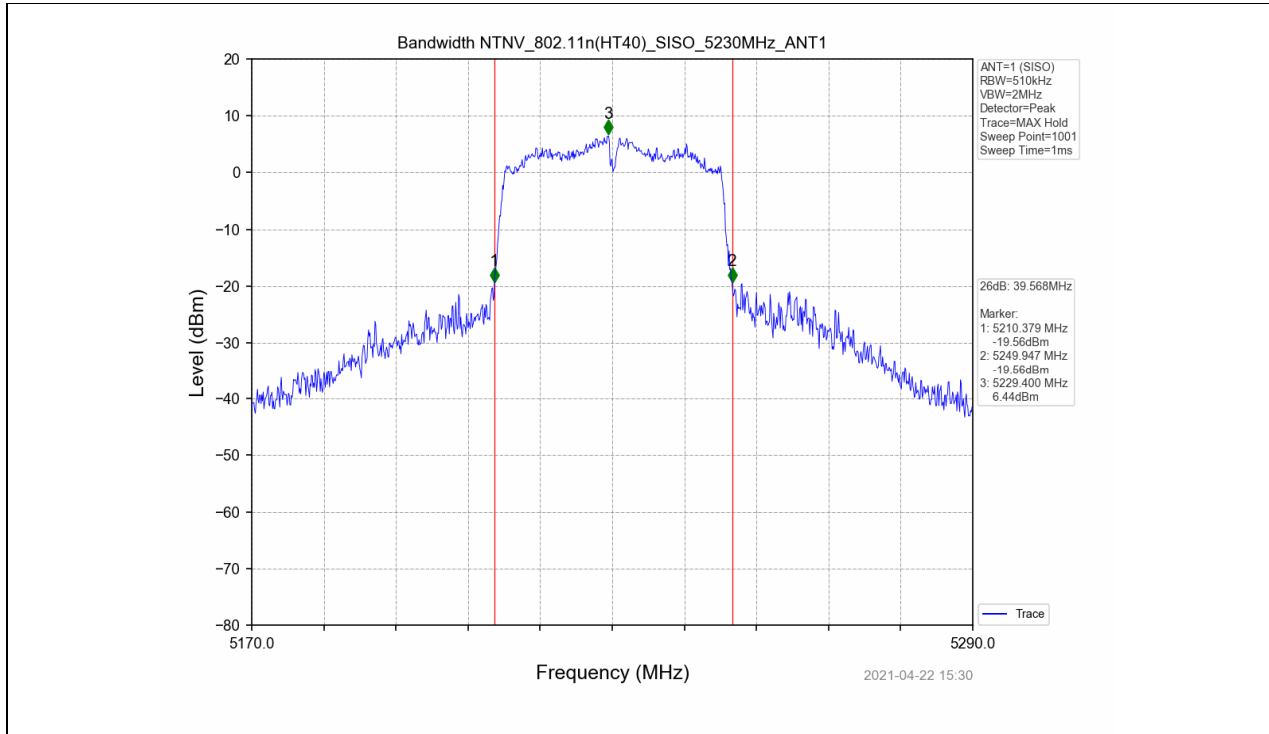
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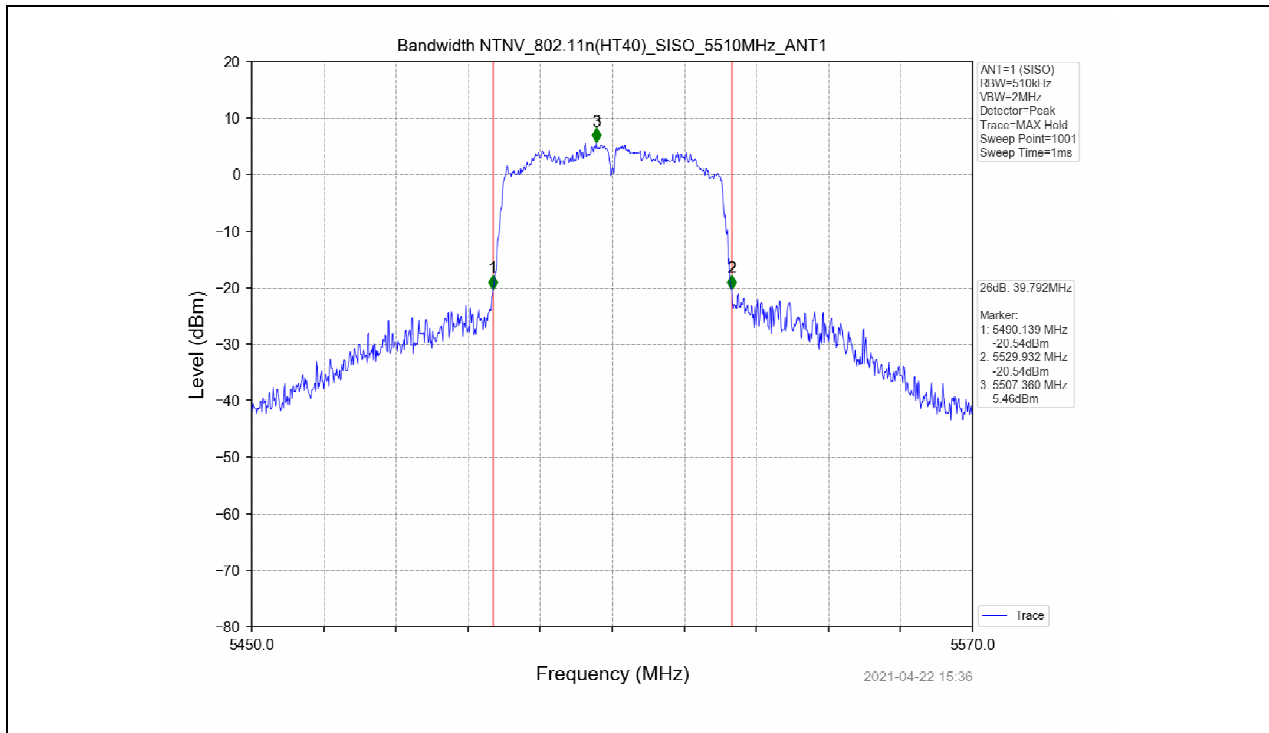
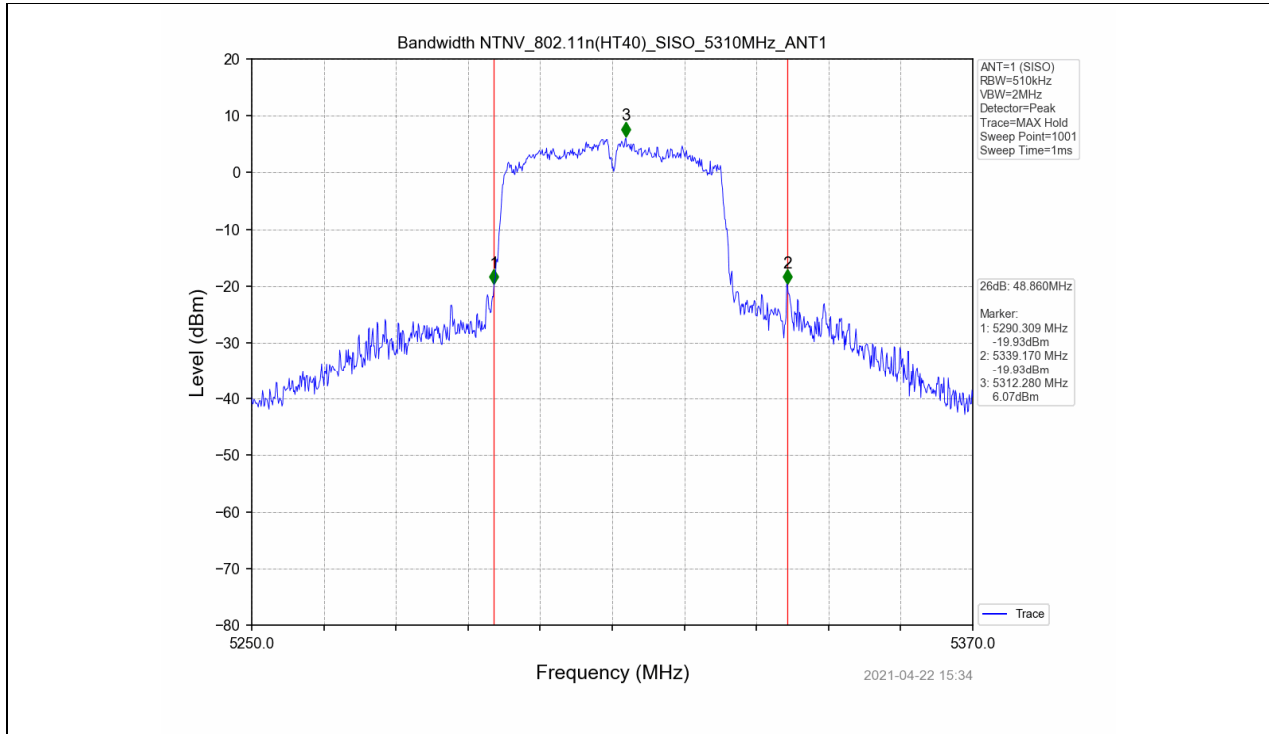


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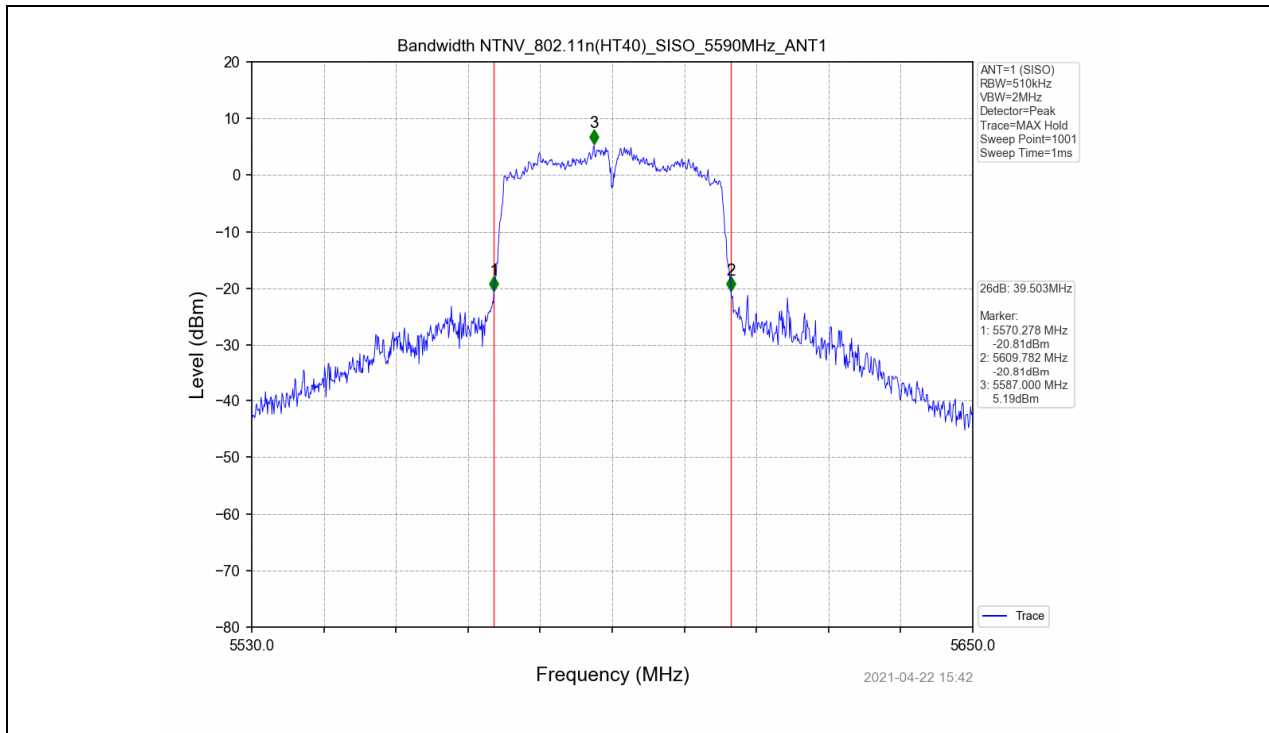
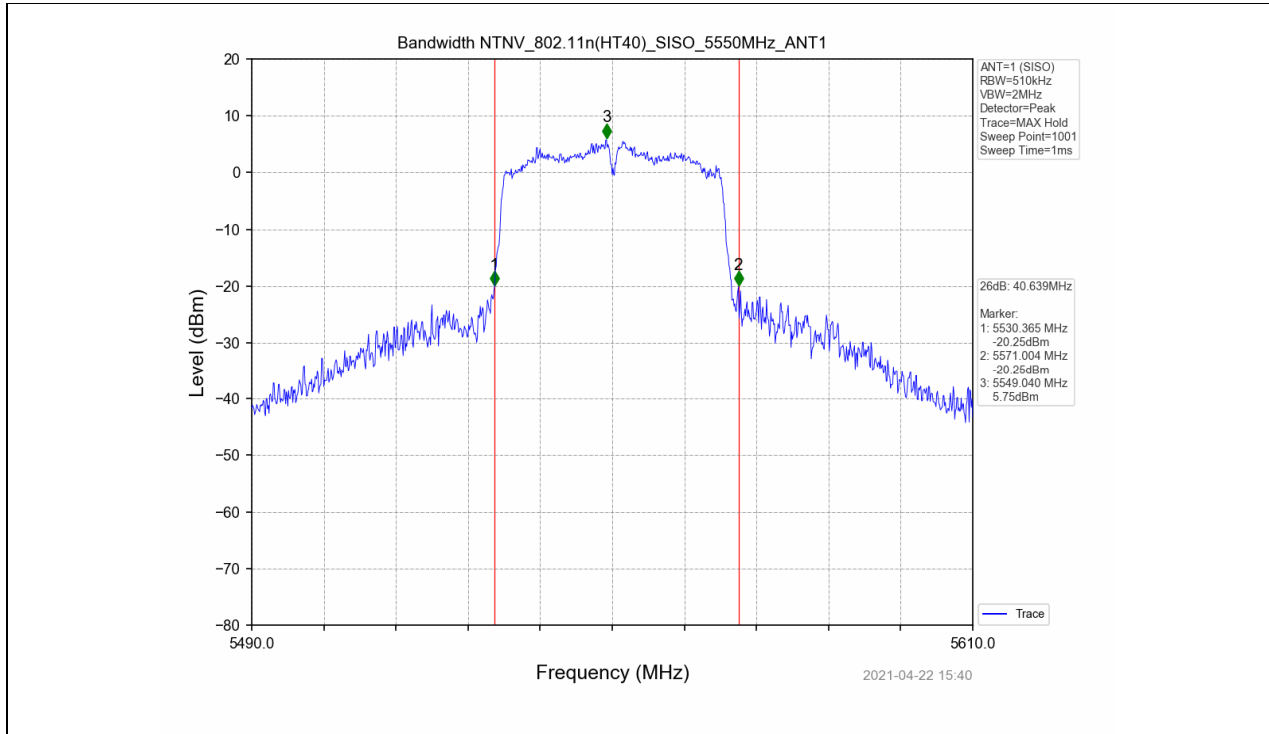
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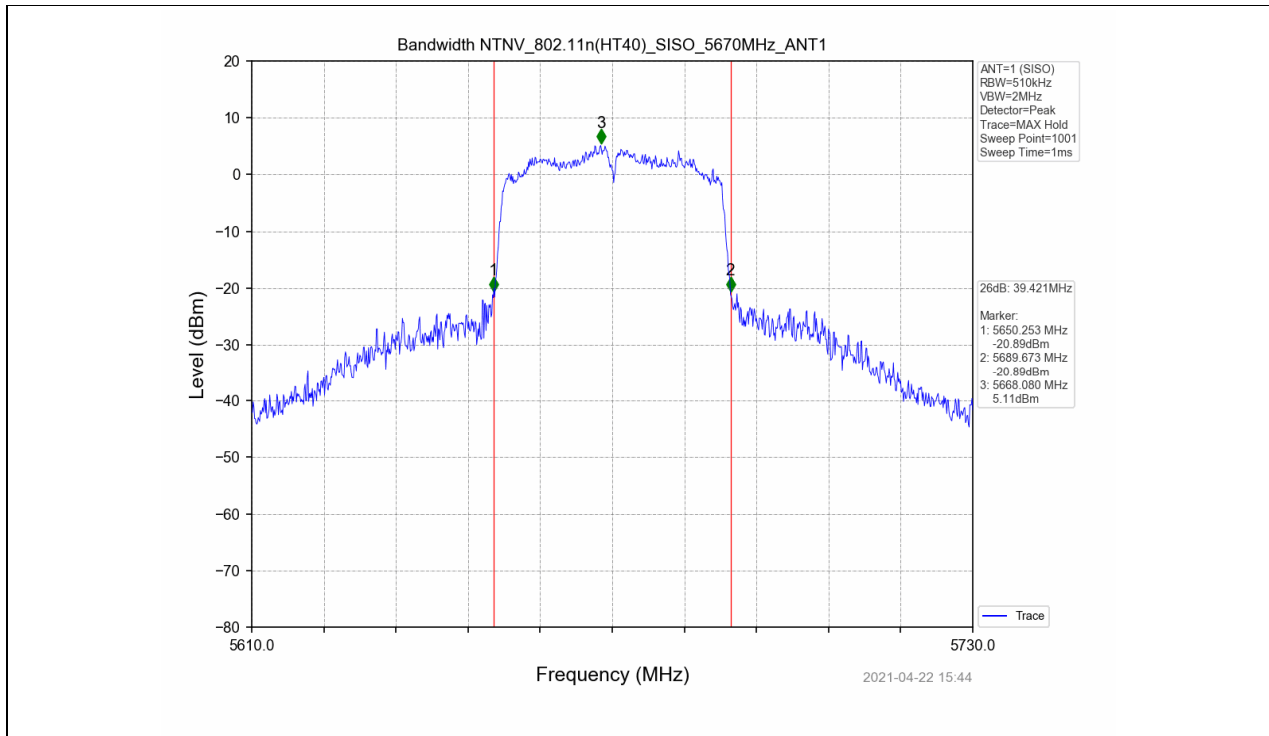
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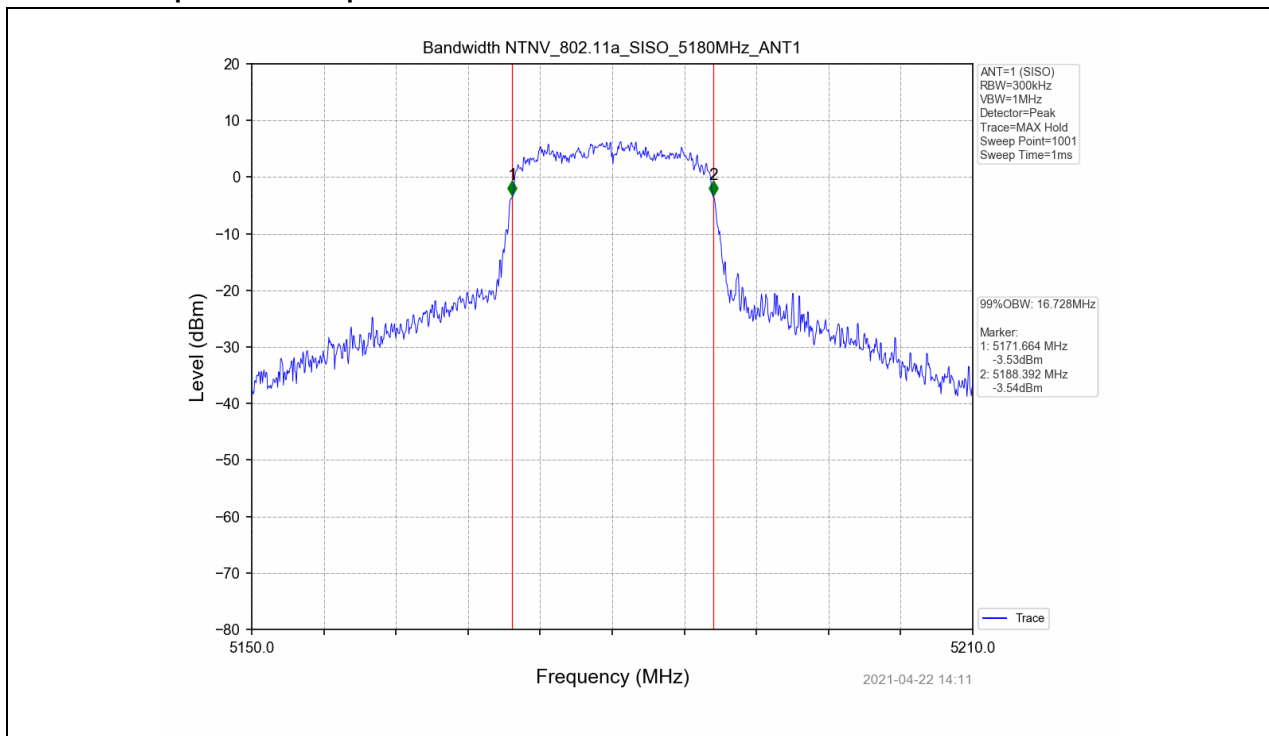
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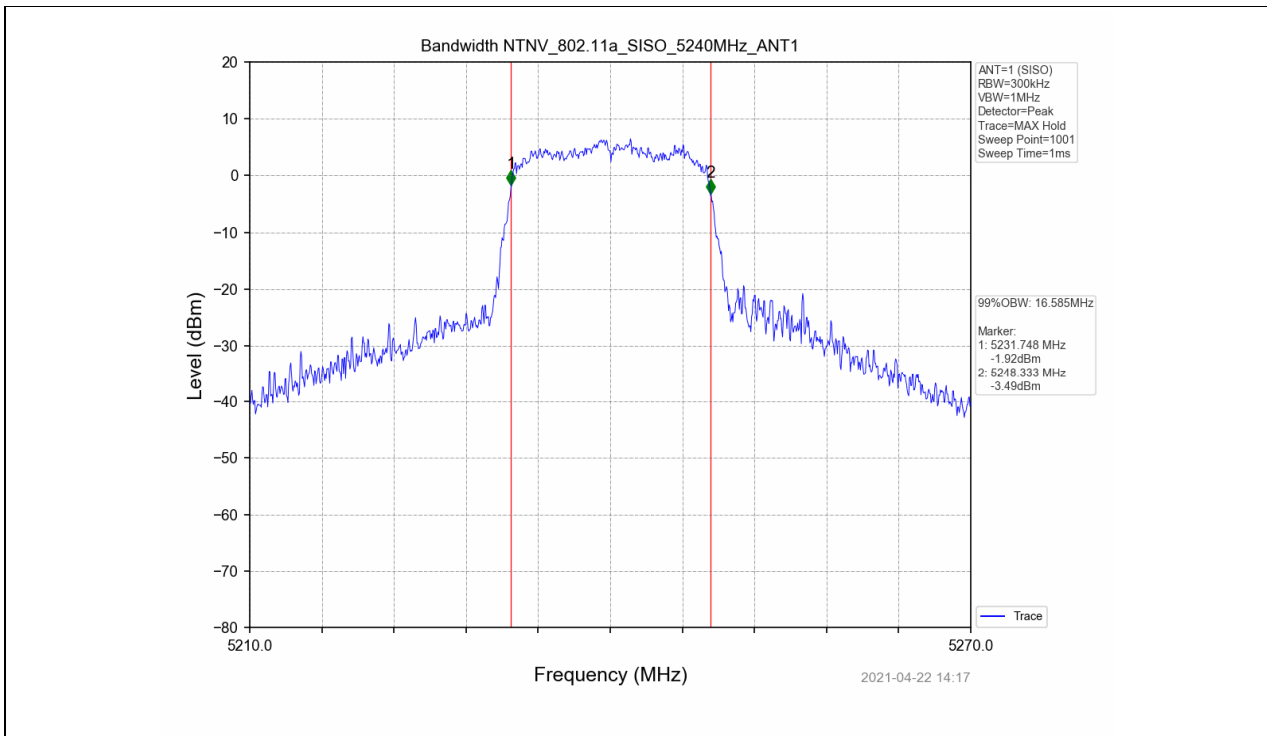
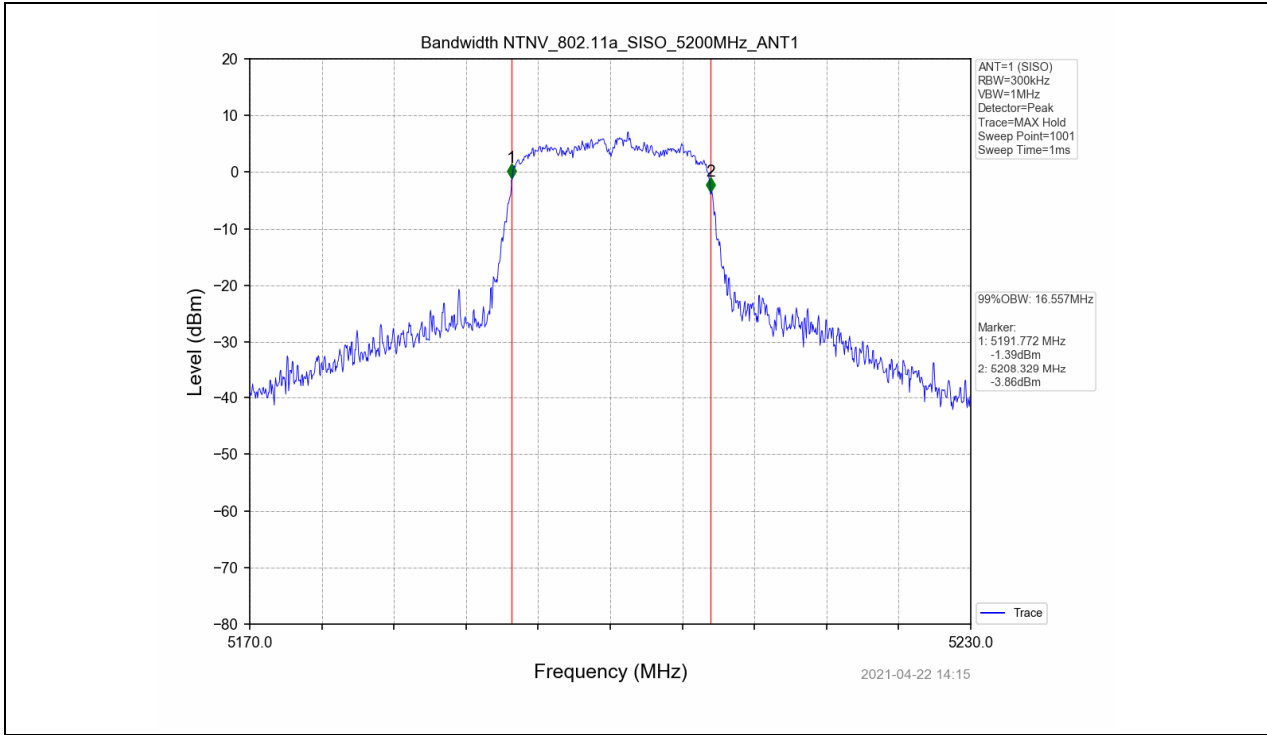
### 2.3 Test Graph - 99% Occupied Bandwidth



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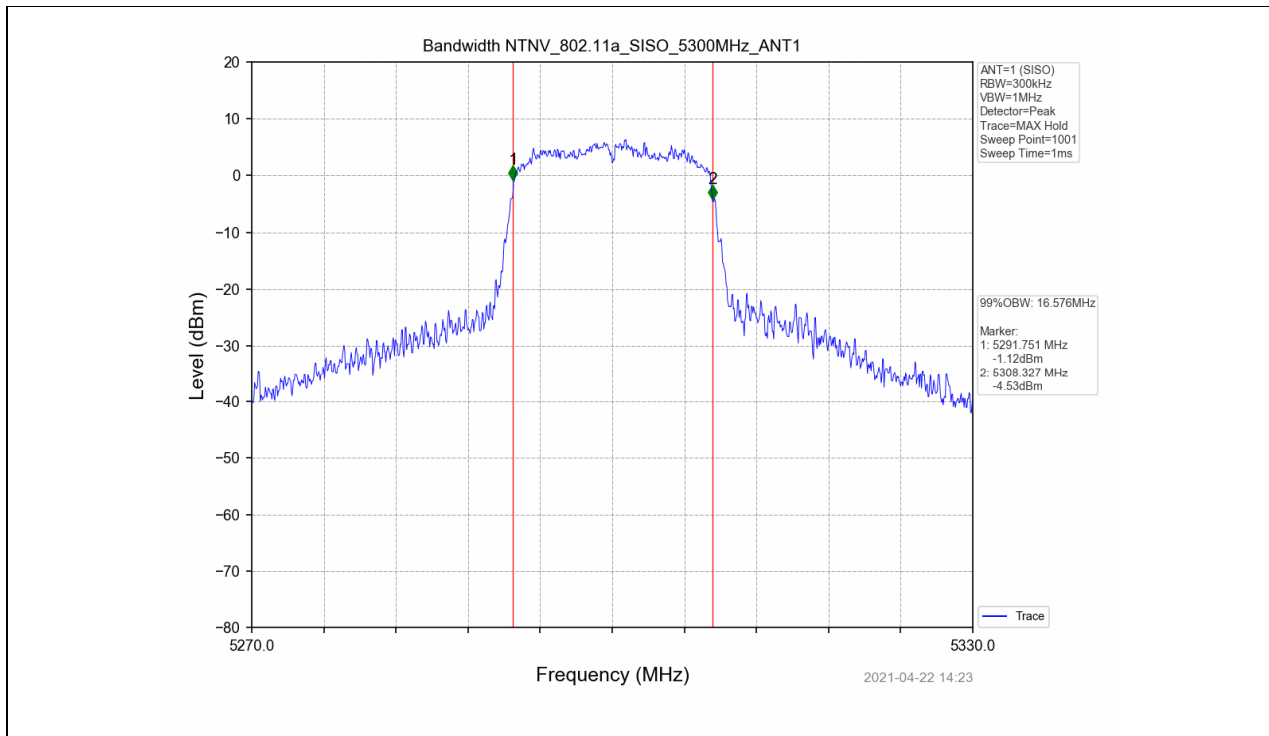
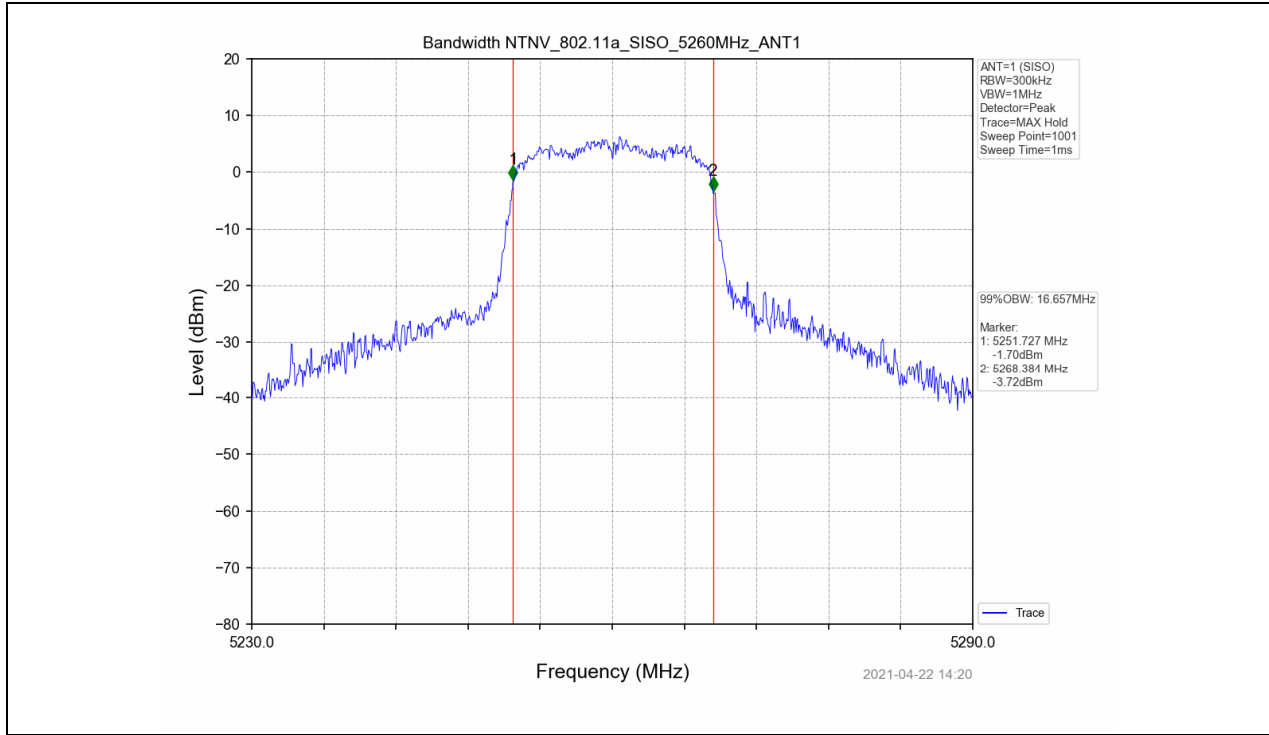
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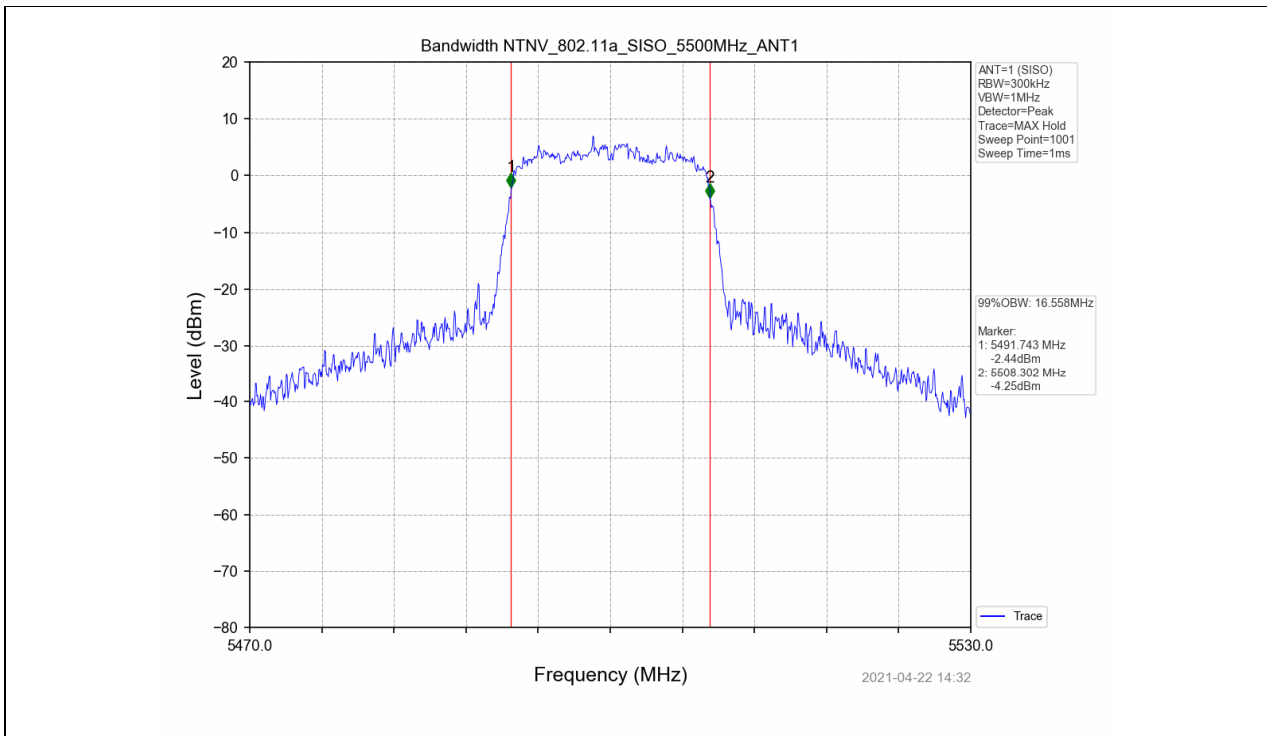
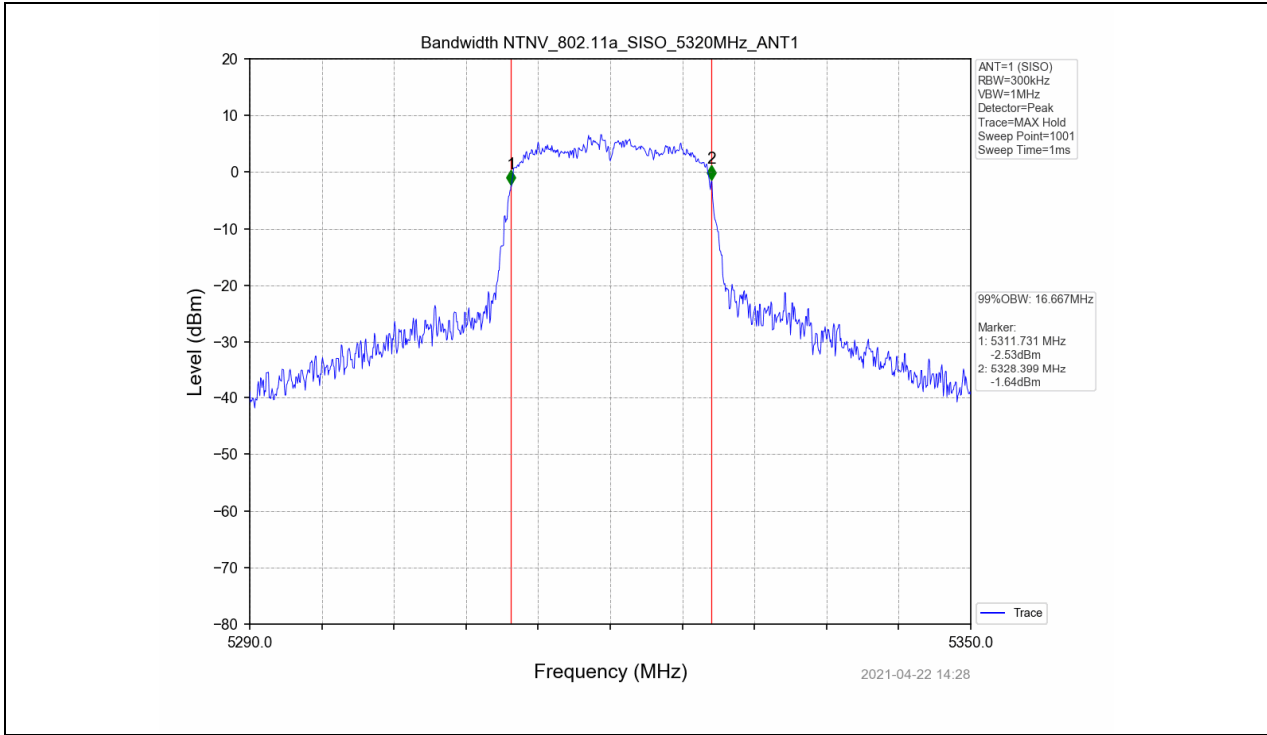
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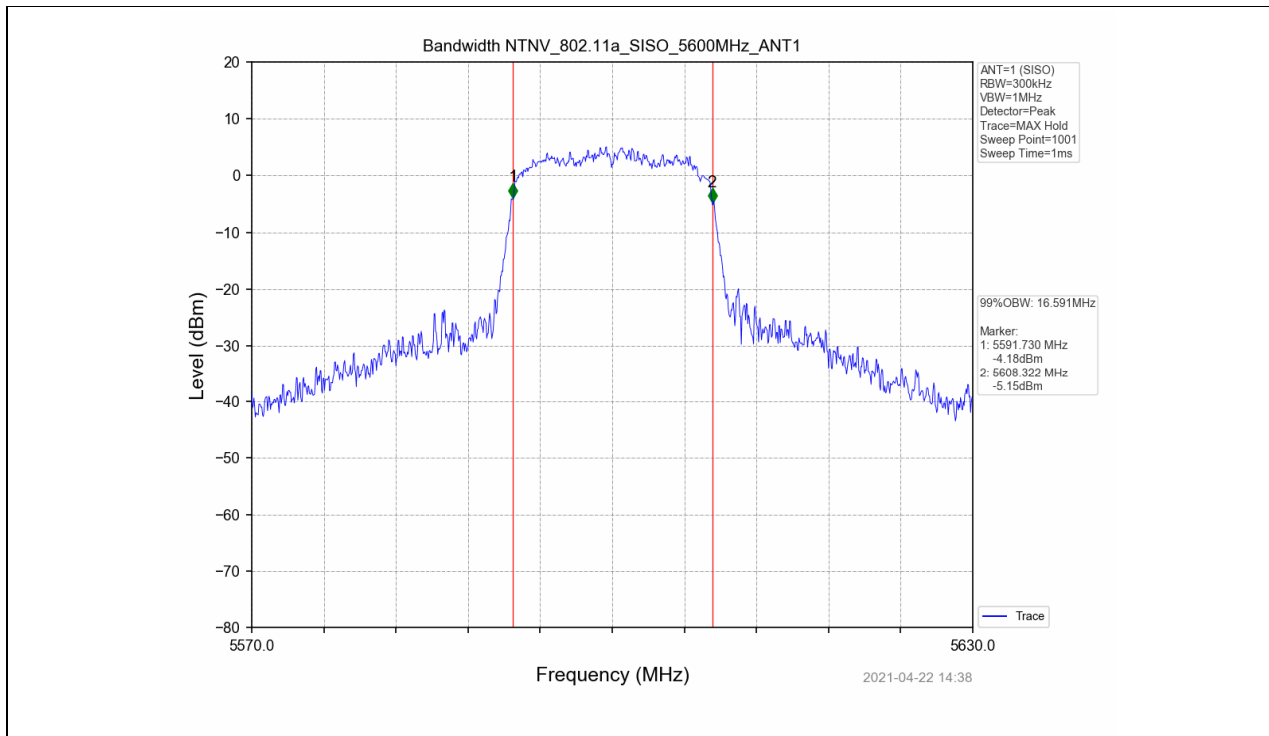
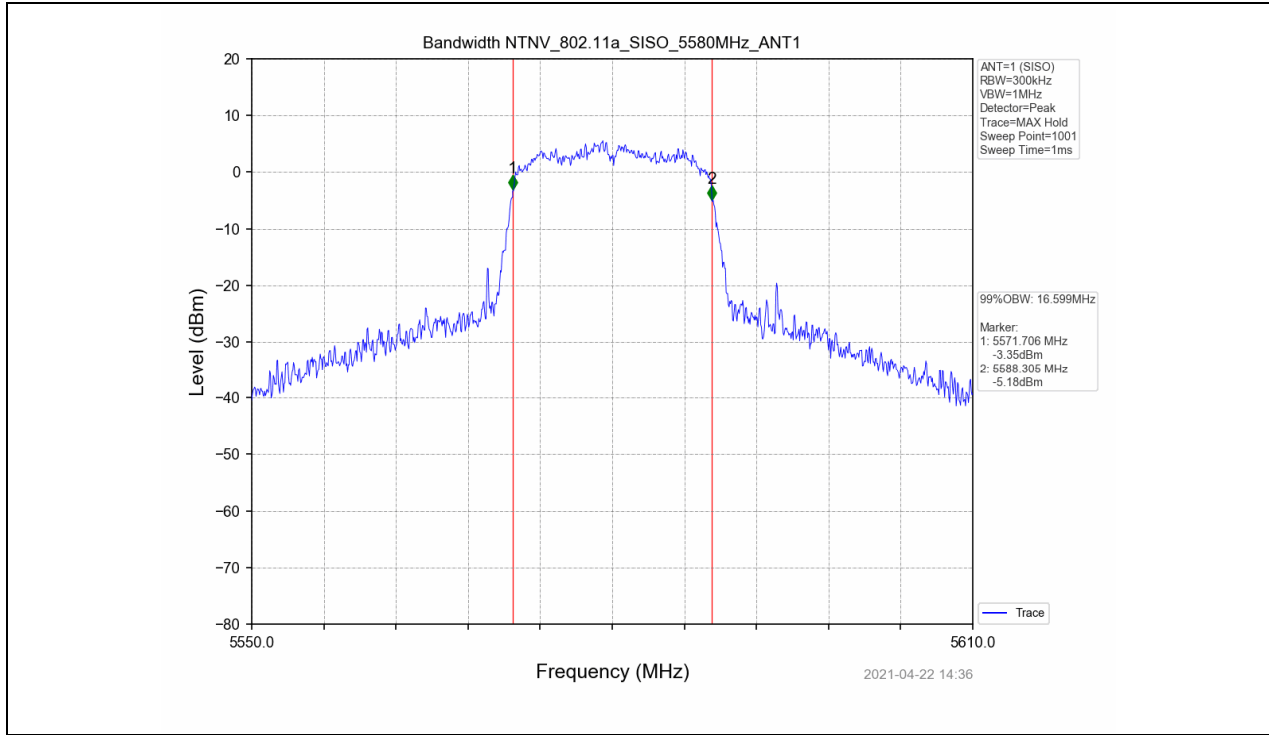
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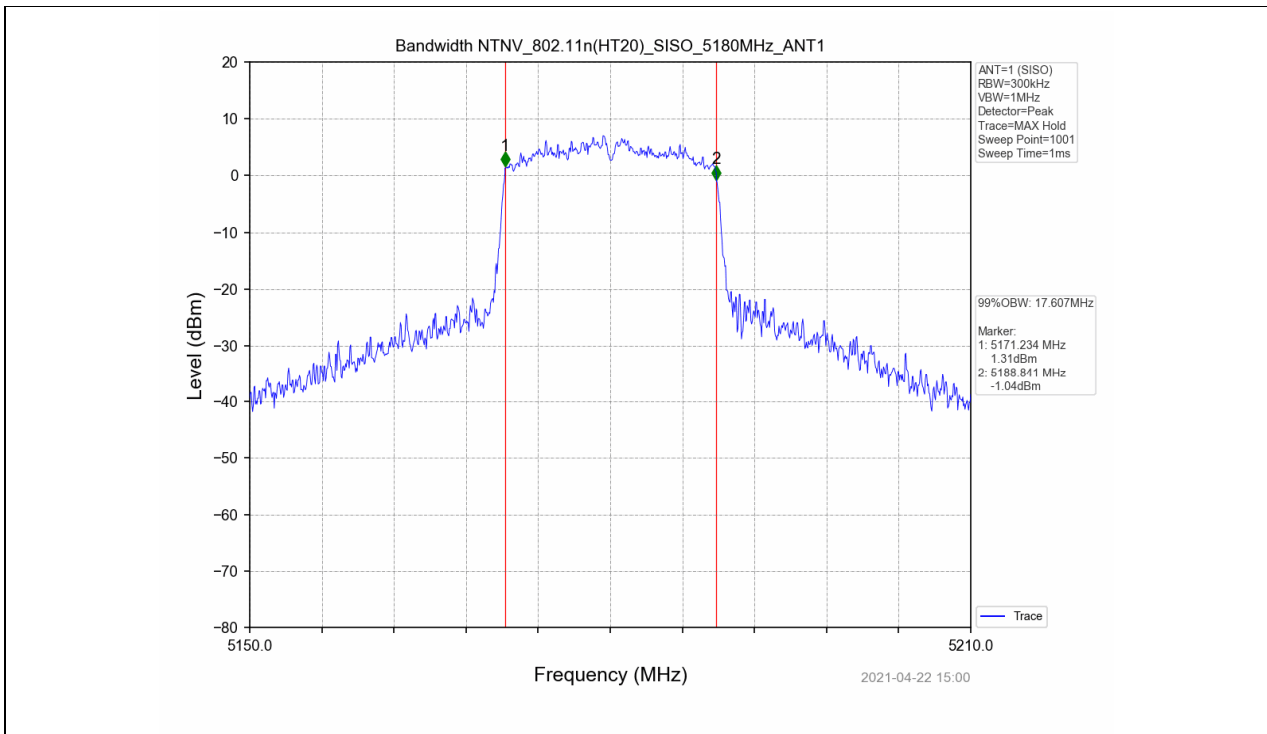
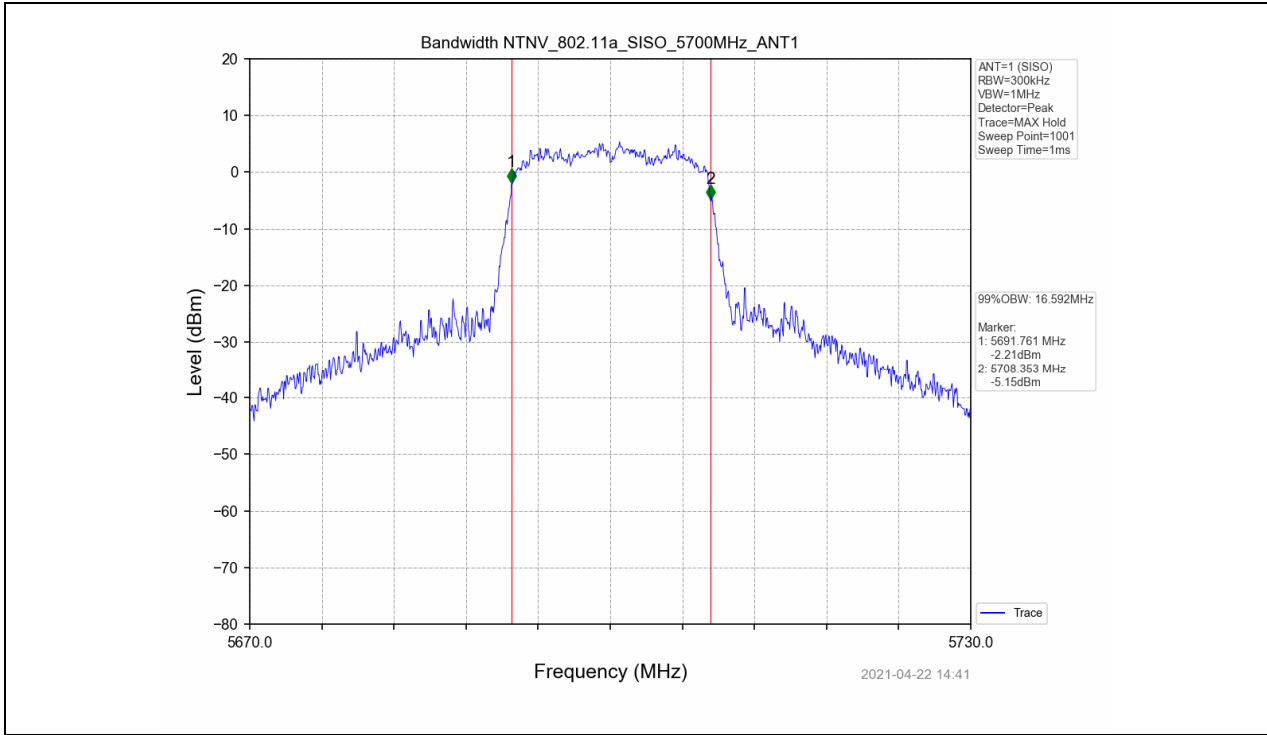


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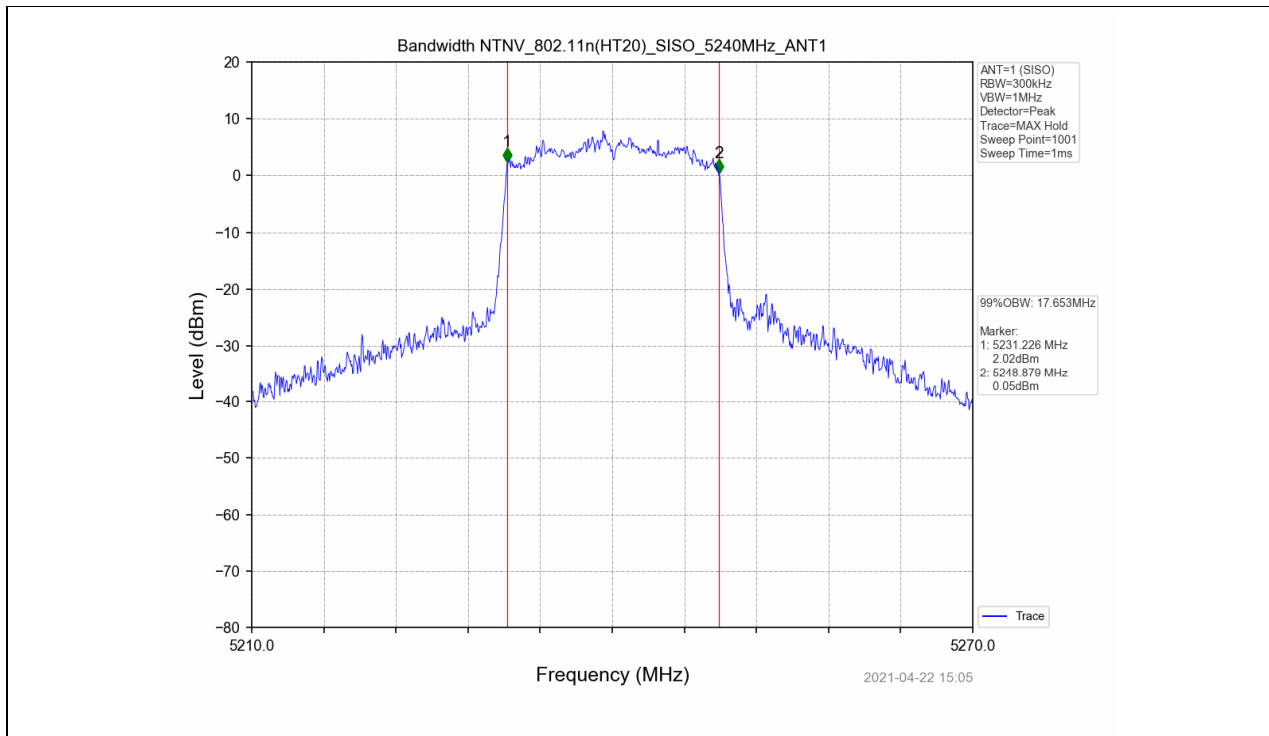
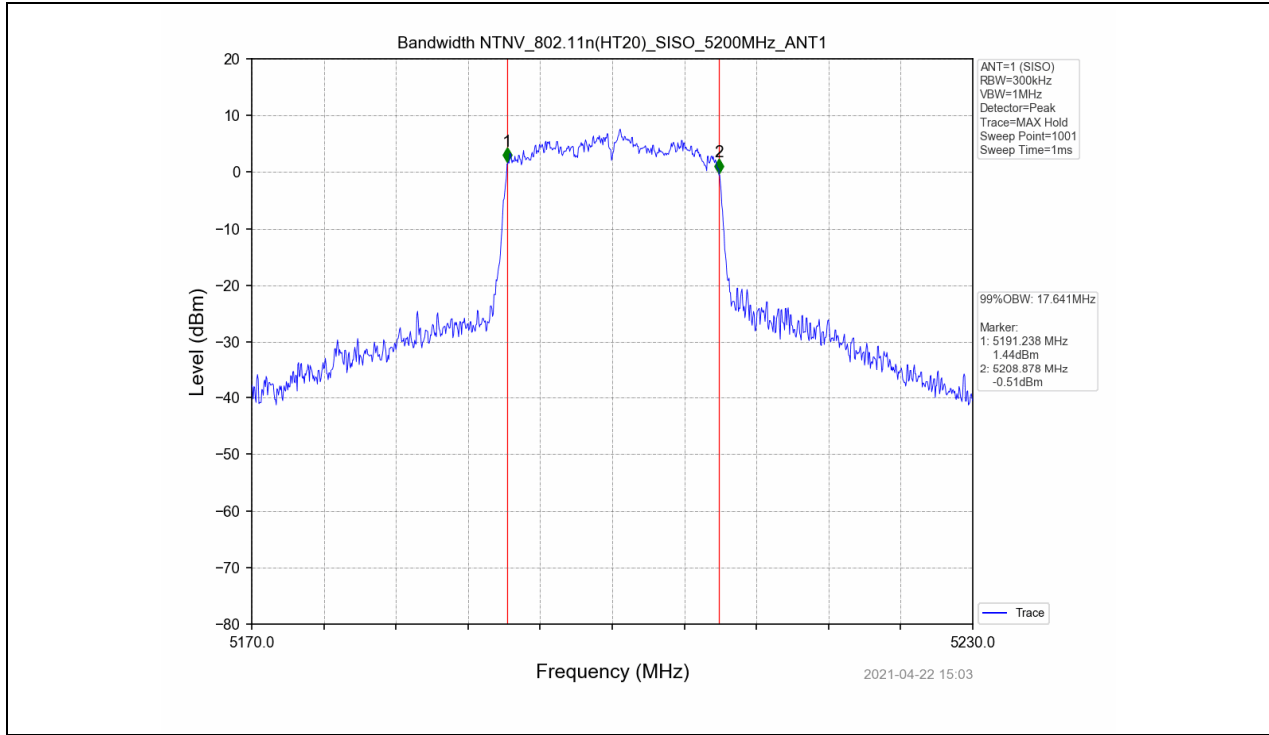
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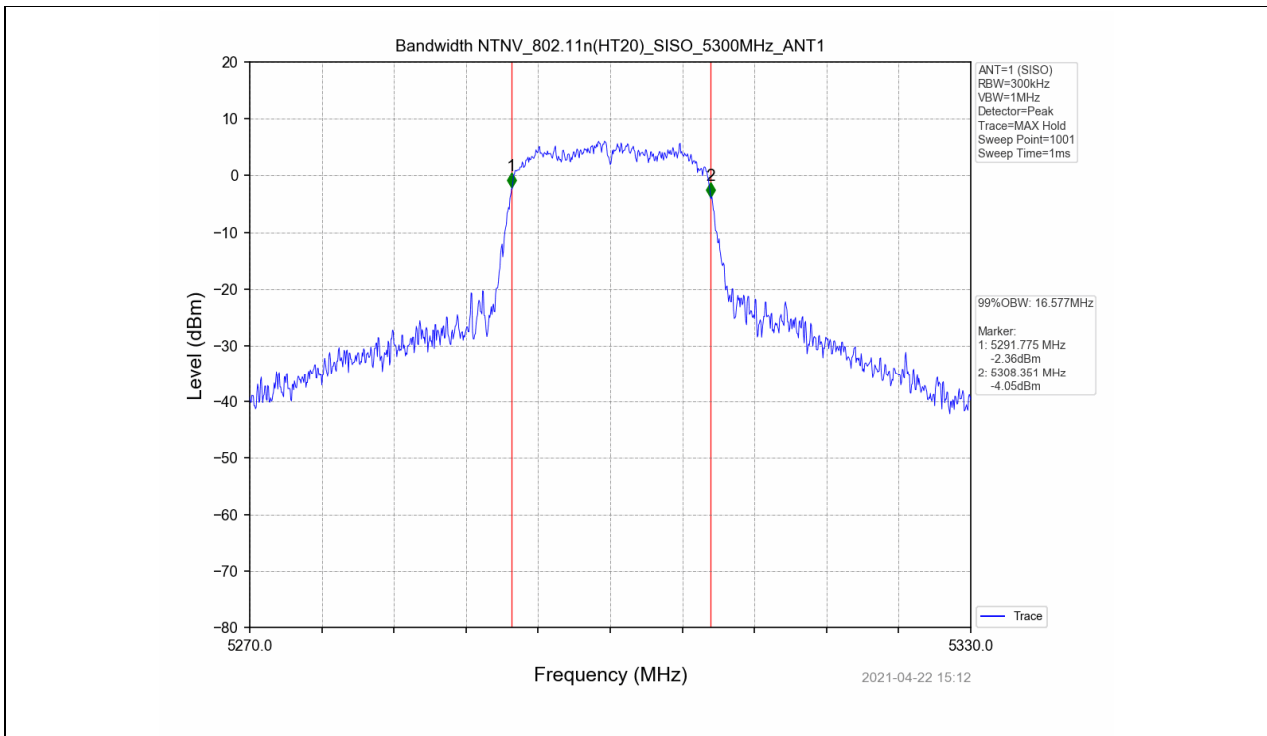
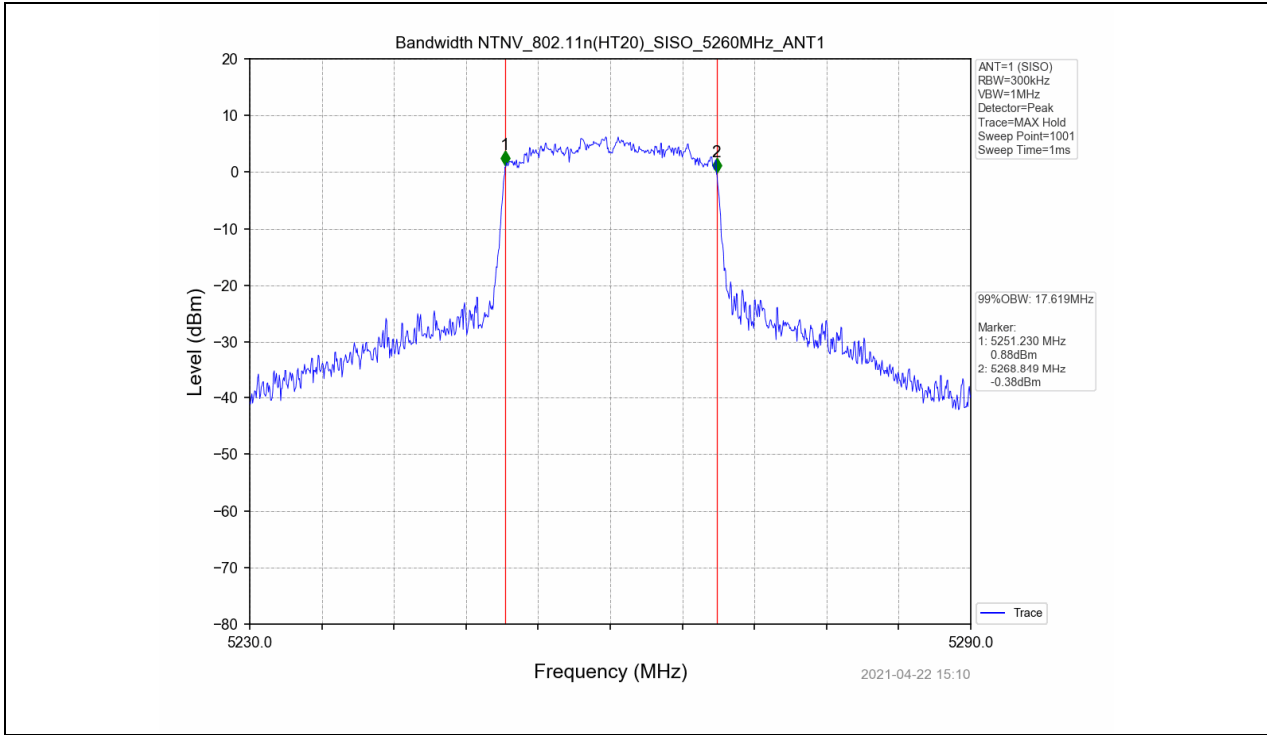


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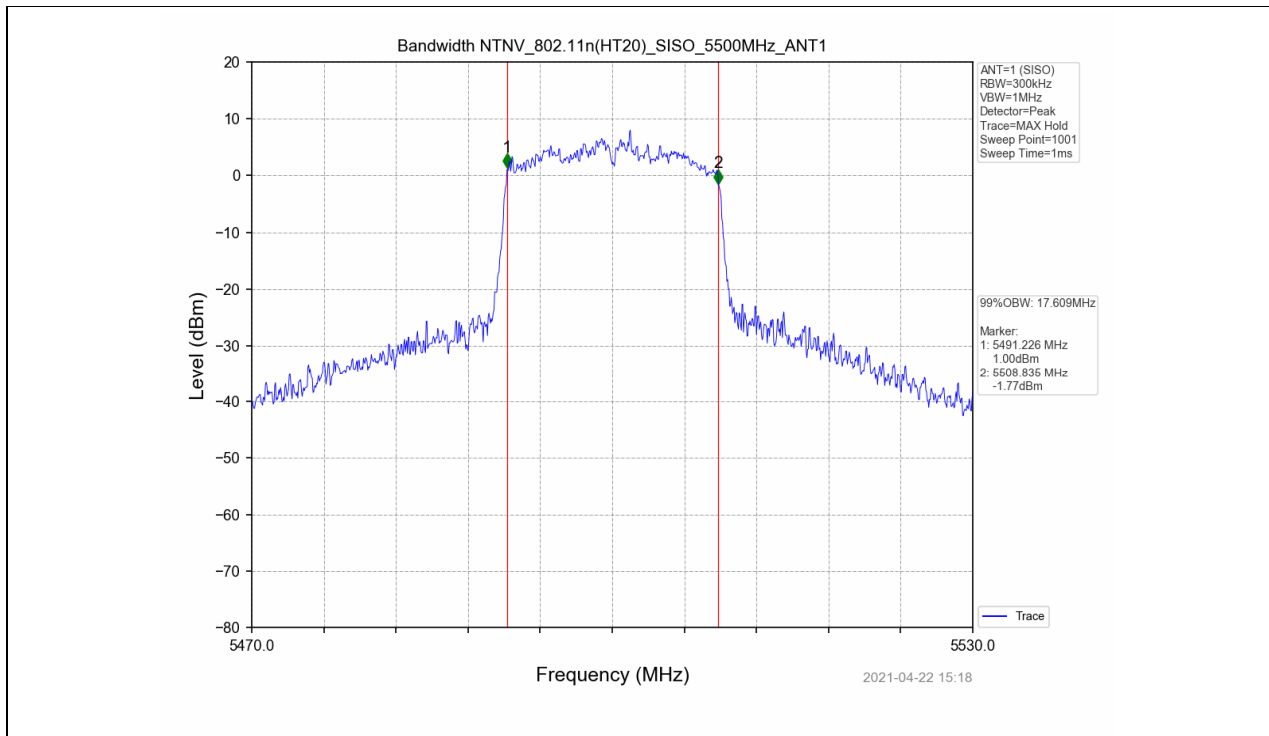
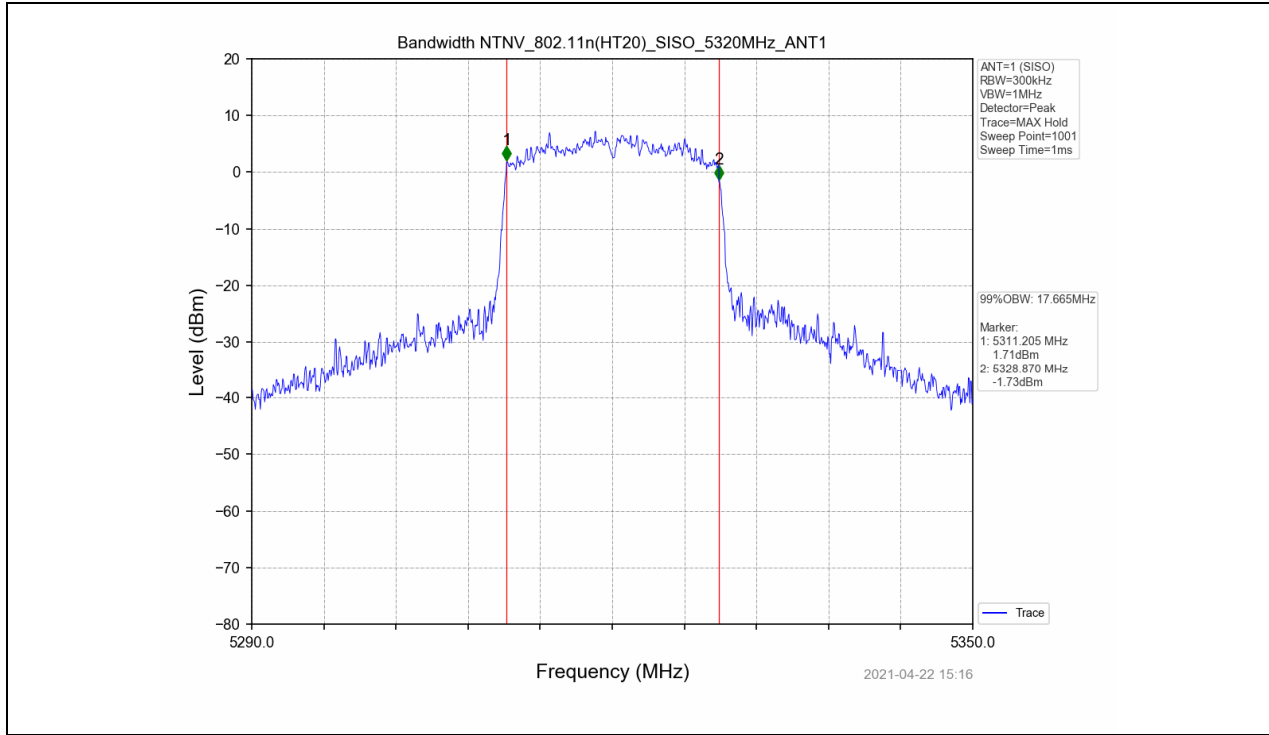


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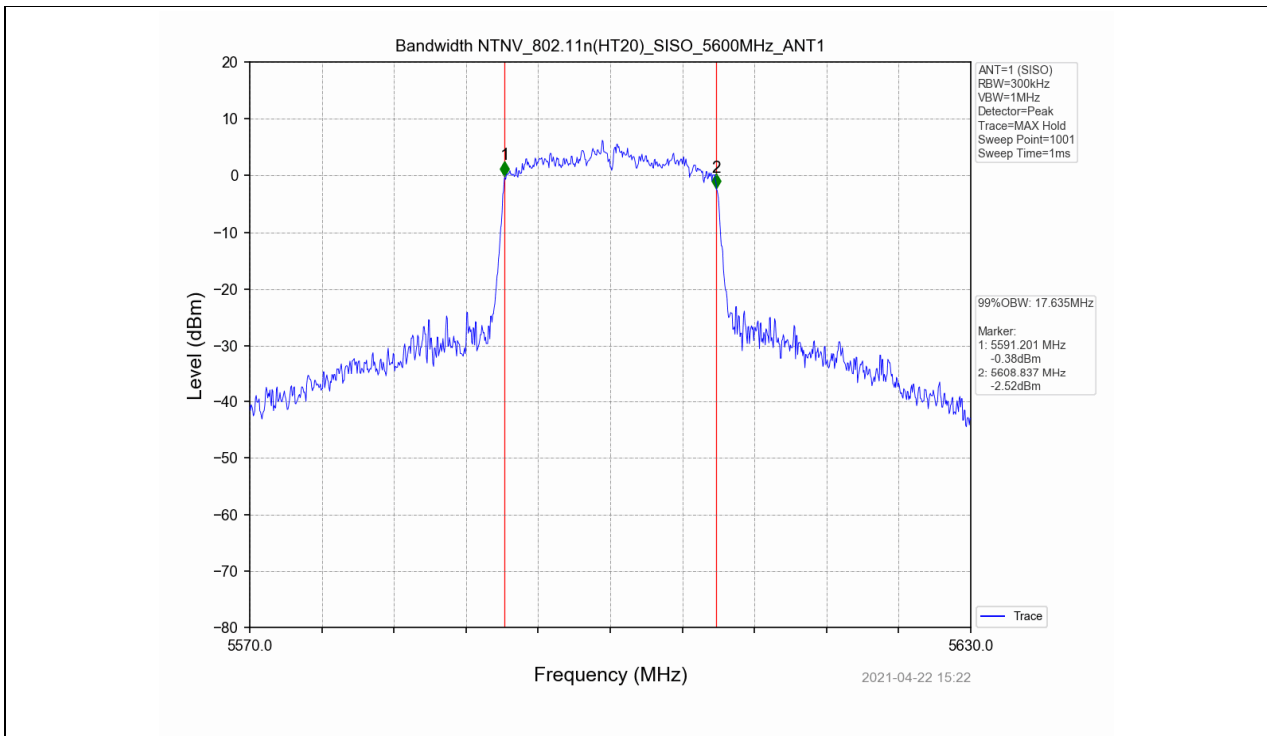
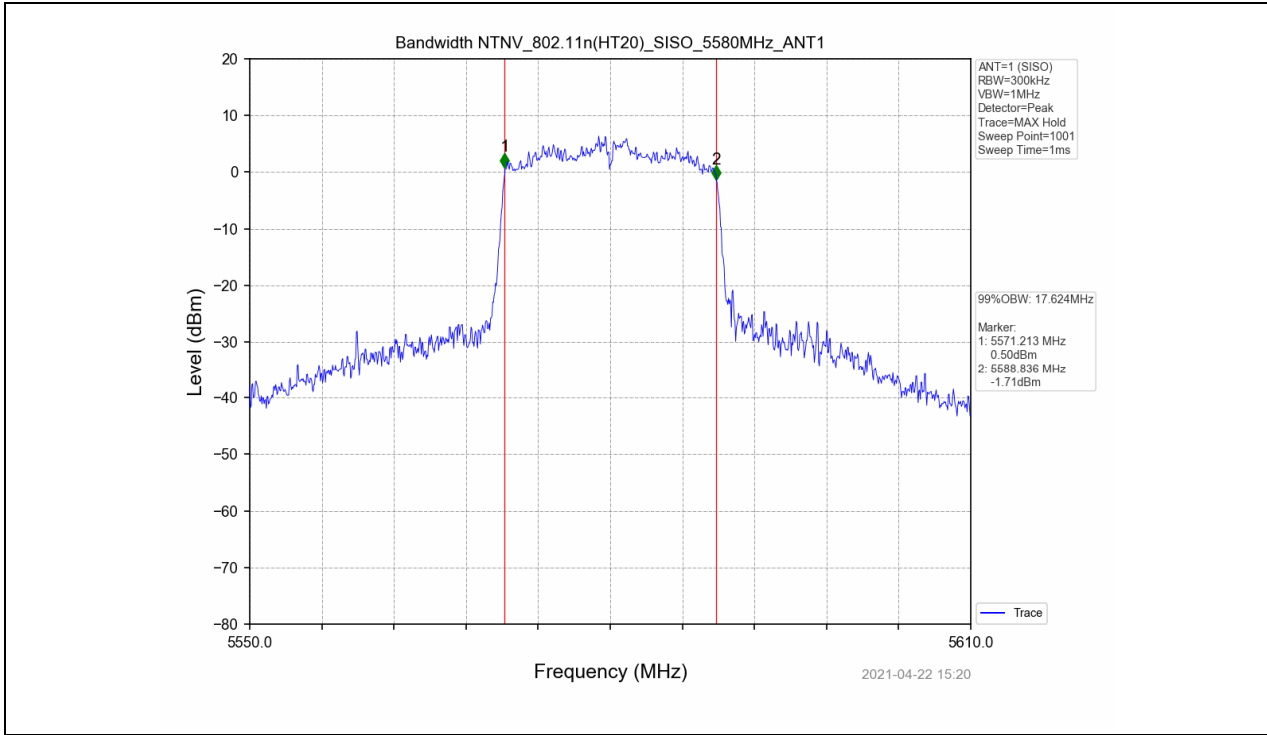


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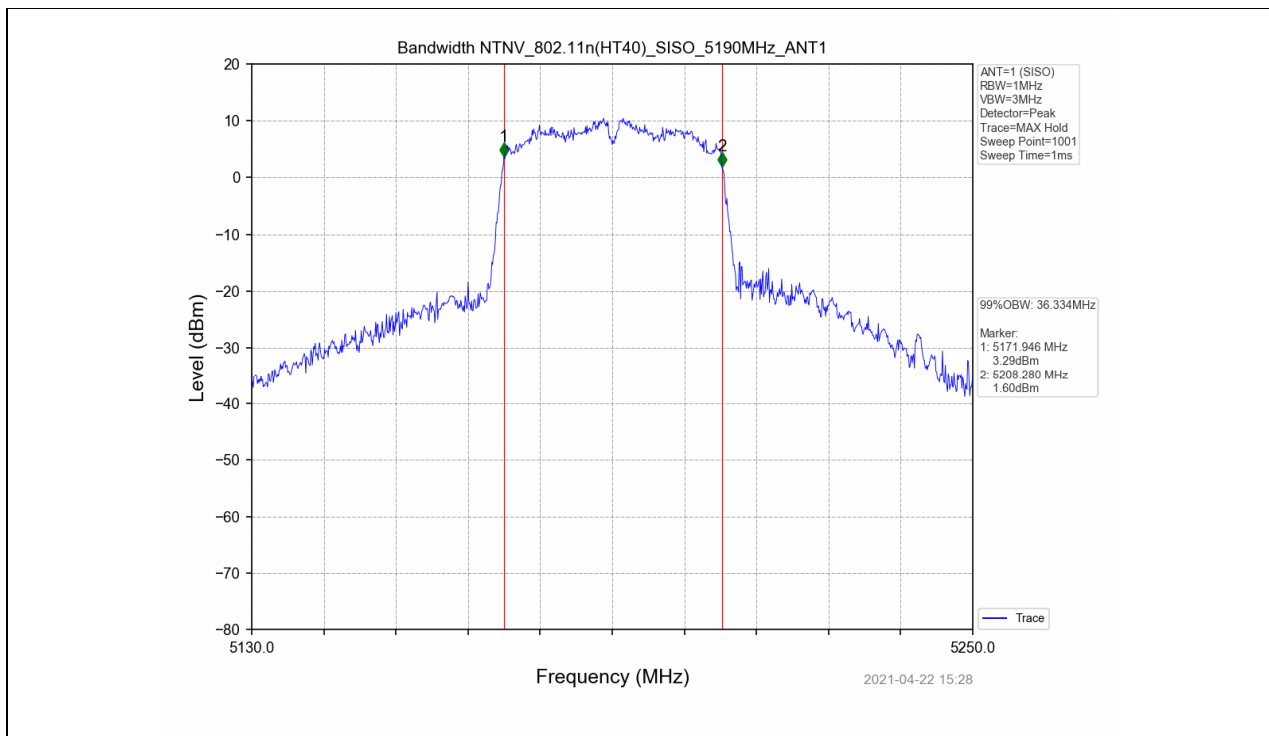
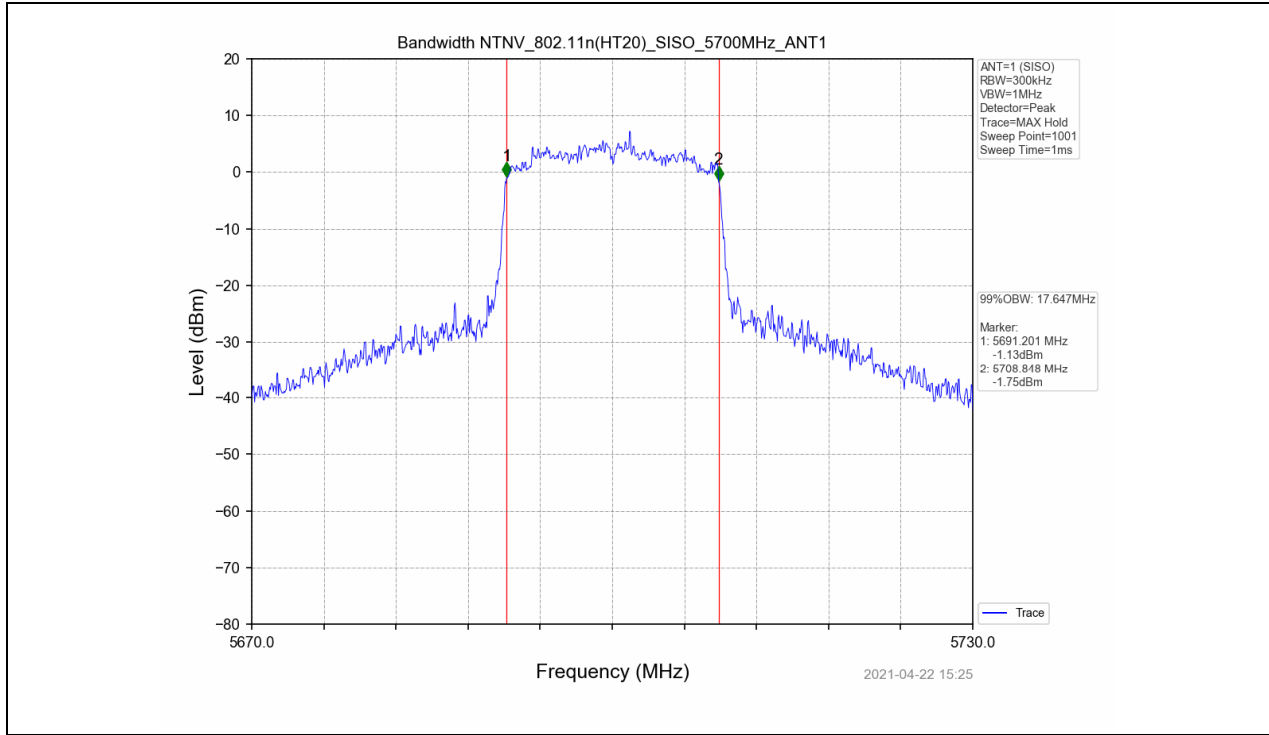


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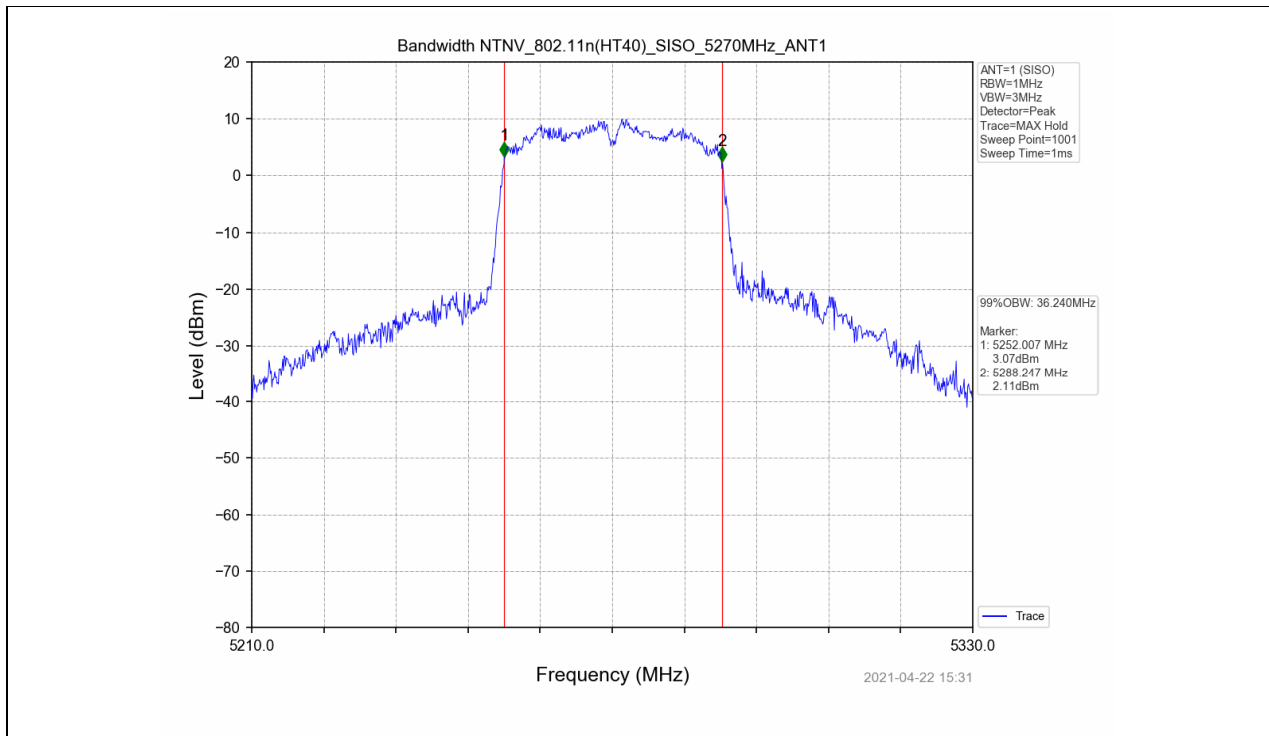
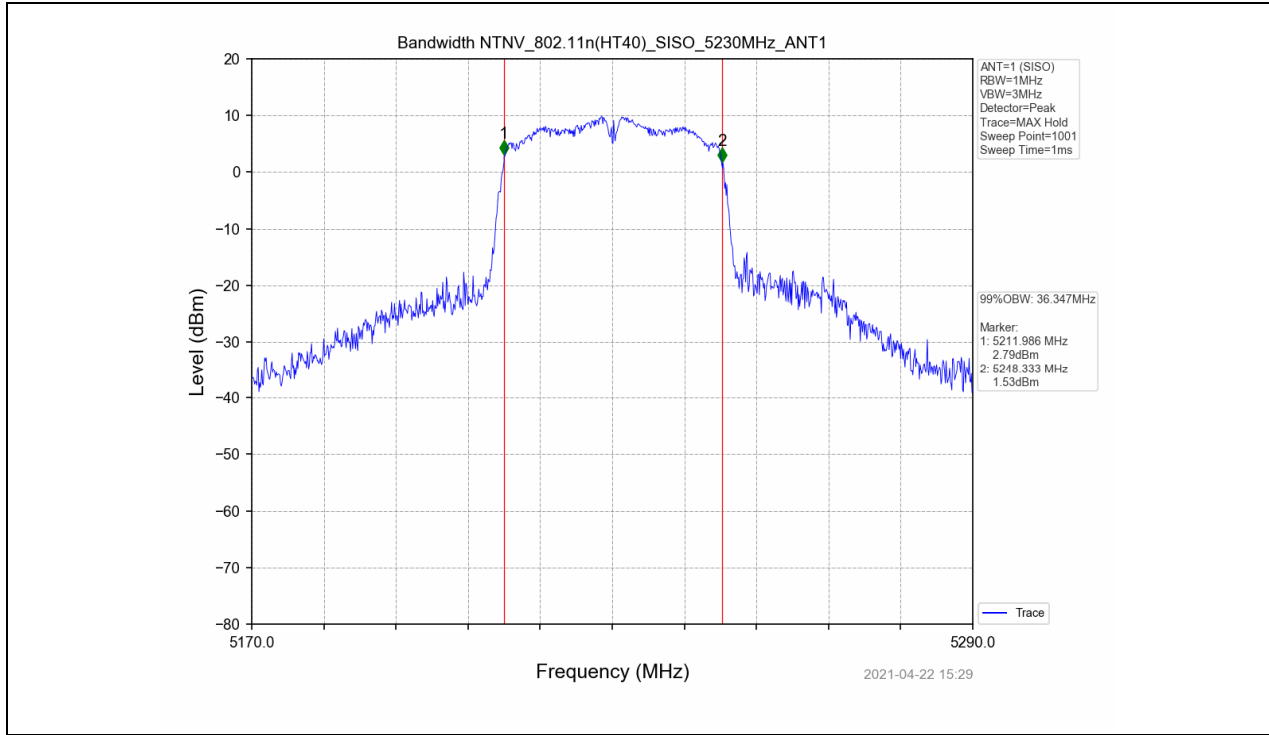


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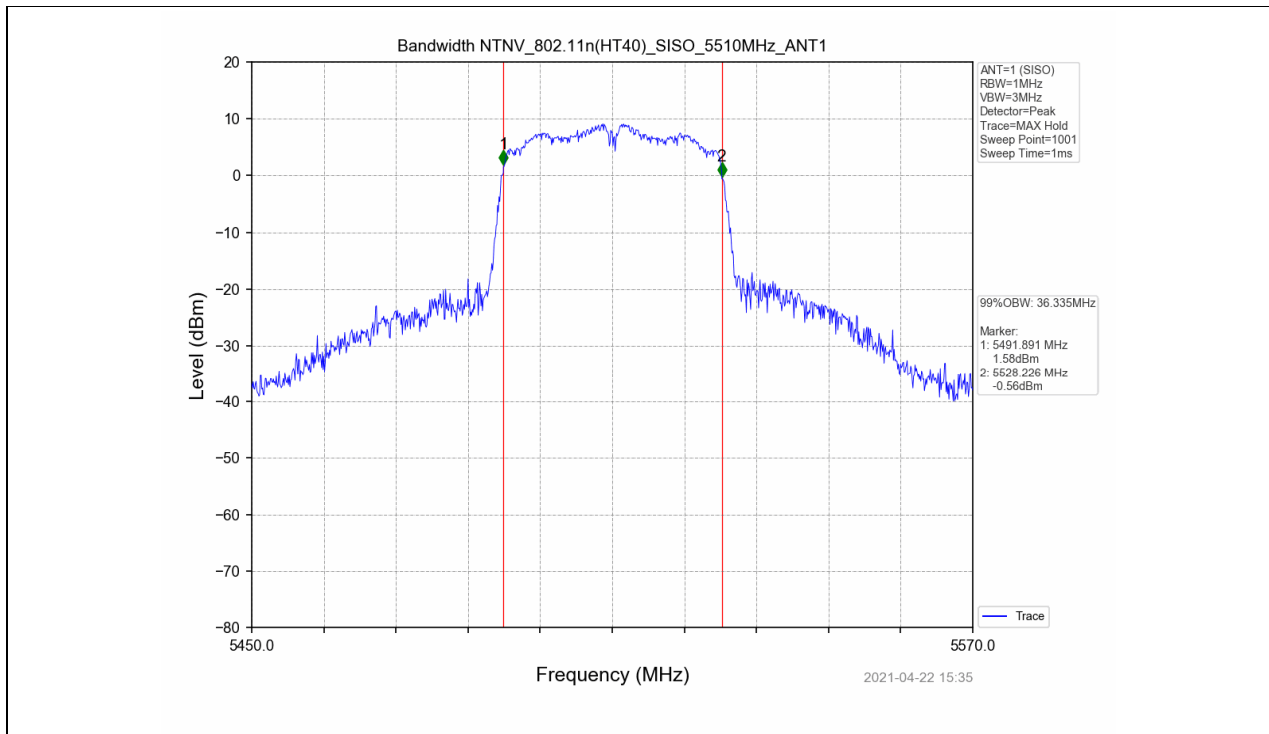
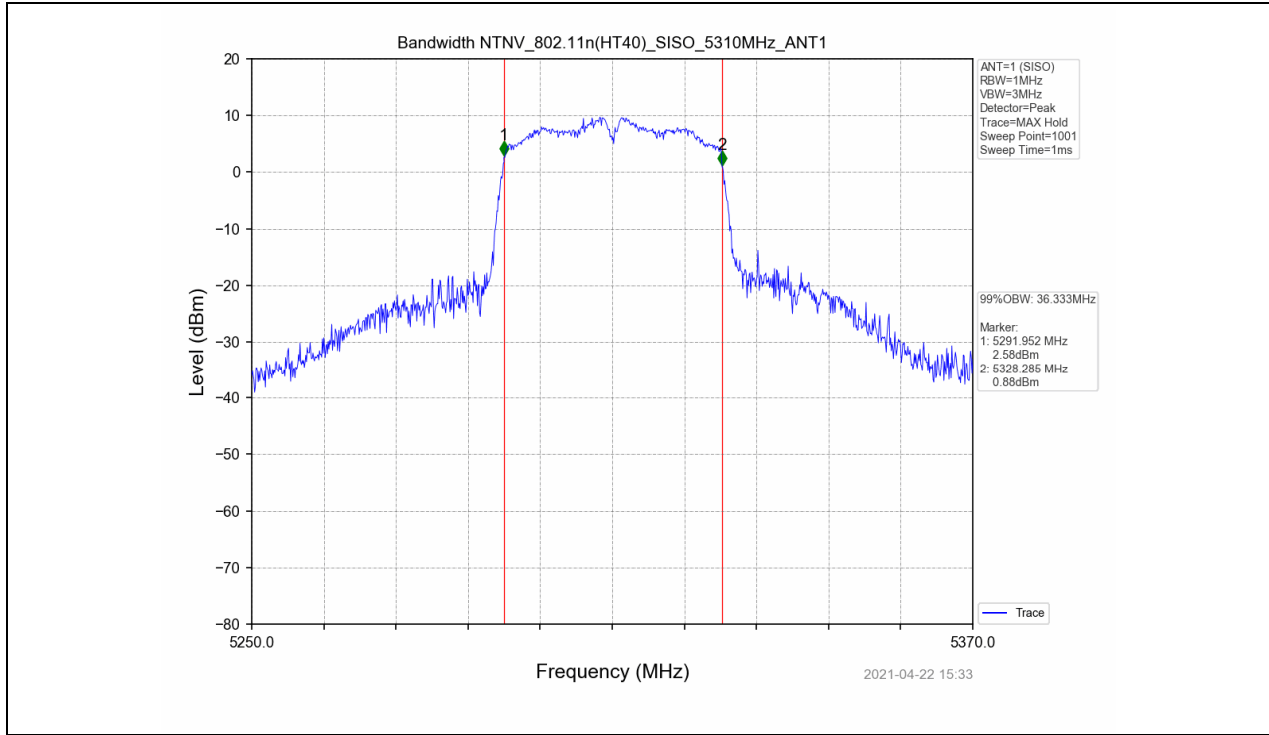
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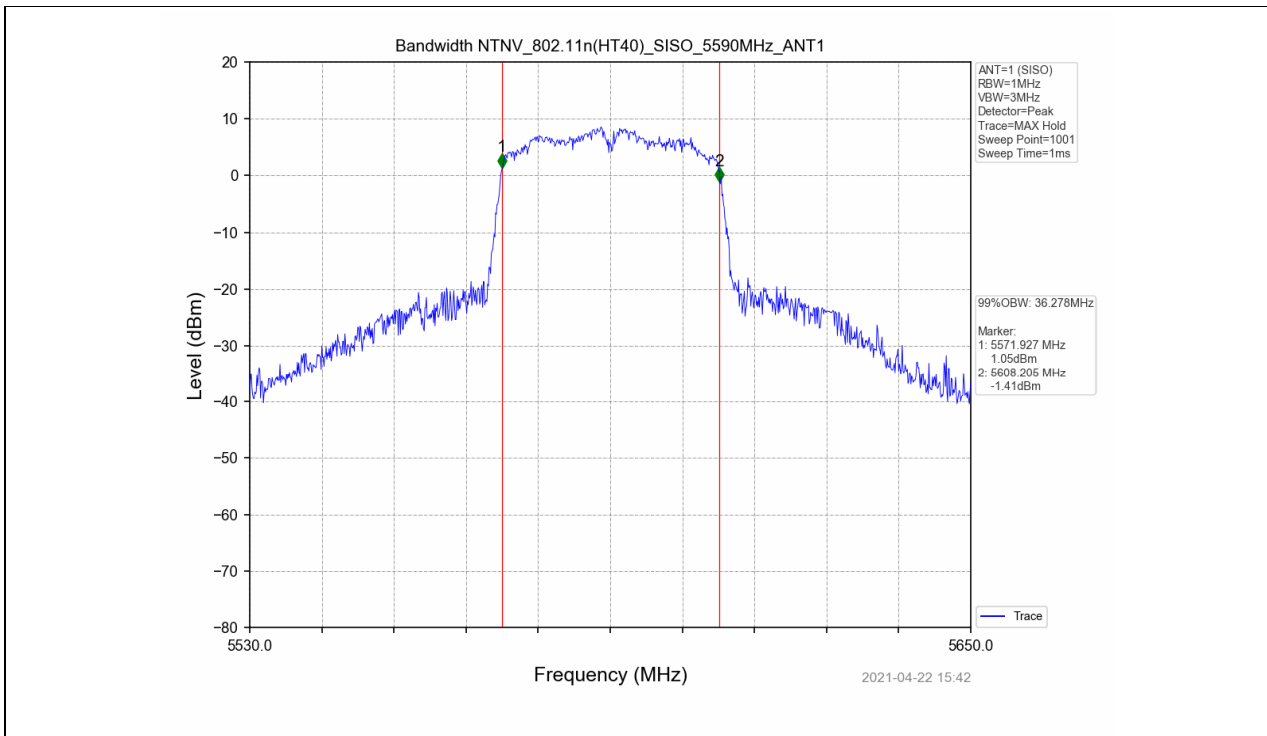
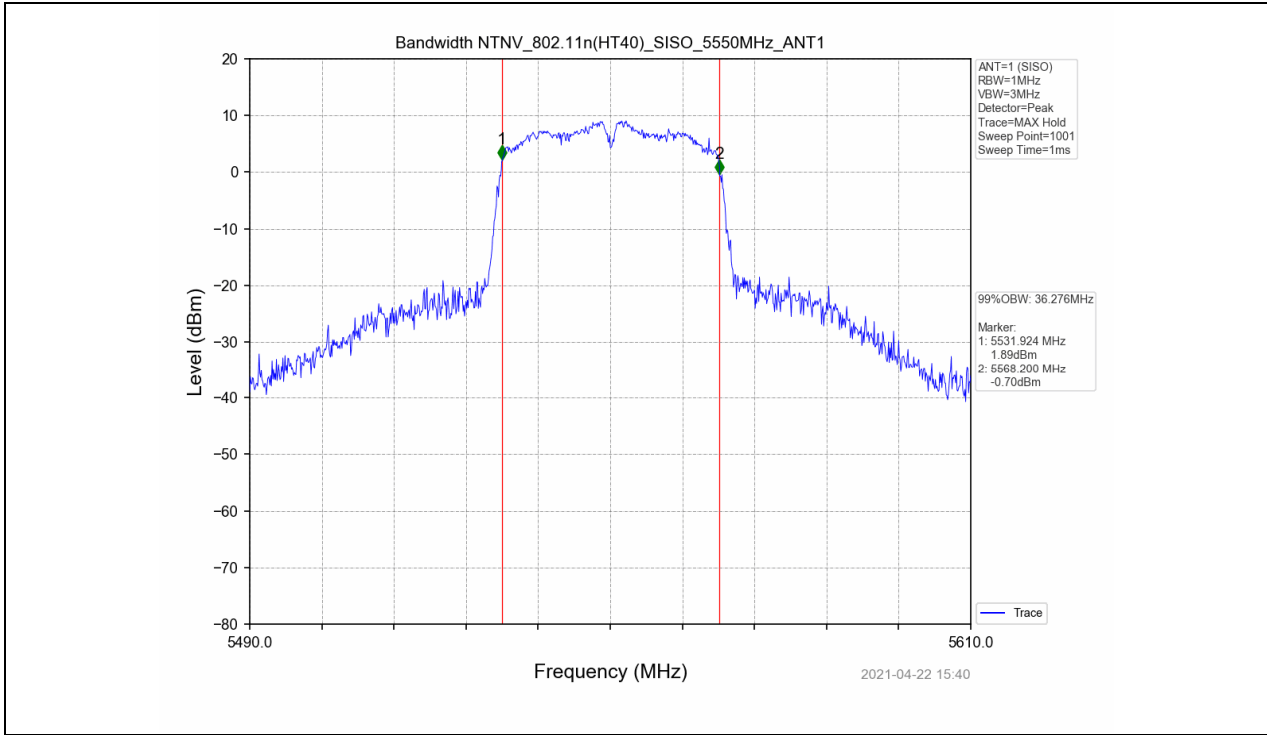
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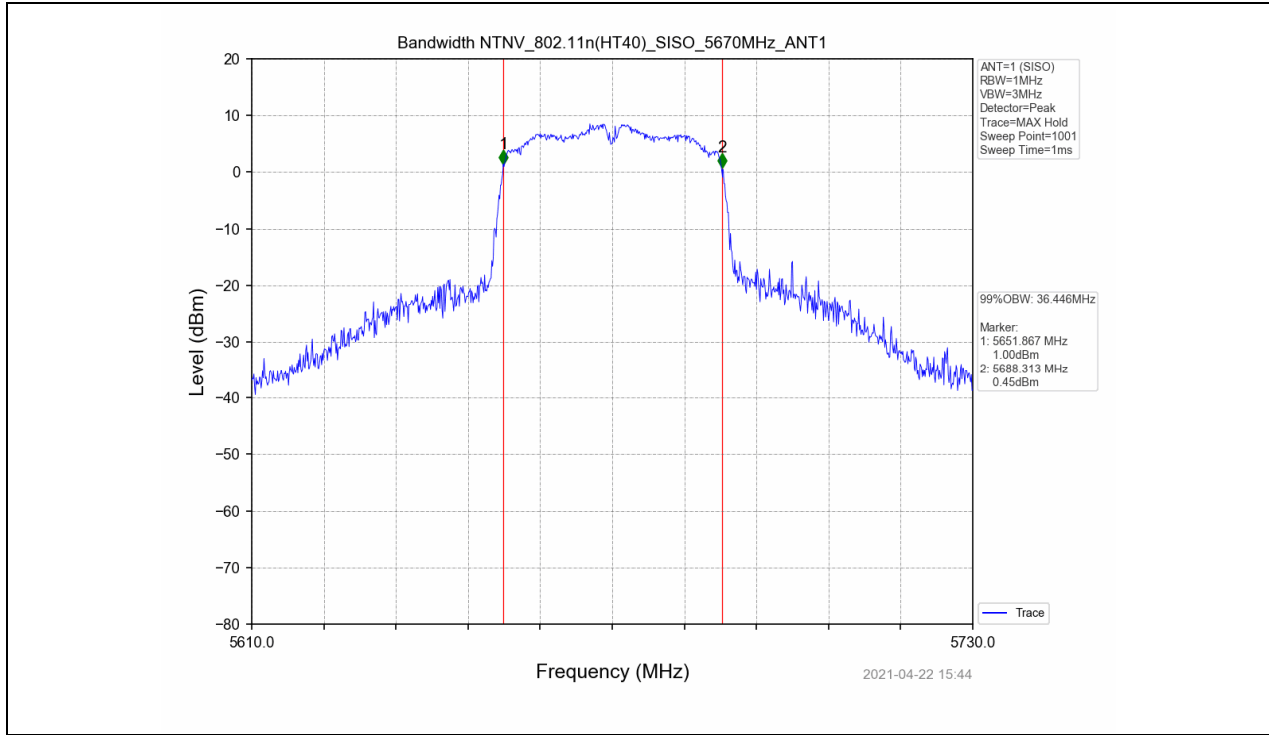




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### 3. Maximum Conducted Output Power

#### 3.1 Test Result

| Test Mode     | Frequency (MHz) | Tx Type | Measured Output Power (dBm) | Limit (dBm) | Verdict |
|---------------|-----------------|---------|-----------------------------|-------------|---------|
|               |                 |         | Ant 1                       |             |         |
| 802.11a       | 5180            | SISO    | 14.64                       | ≤23.98      | PASS    |
|               | 5200            | SISO    | 14.59                       | ≤23.98      | PASS    |
|               | 5240            | SISO    | 14.47                       | ≤23.98      | PASS    |
|               | 5260            | SISO    | 14.39                       | ≤23.79      | PASS    |
|               | 5300            | SISO    | 14.26                       | ≤23.71      | PASS    |
|               | 5320            | SISO    | 14.56                       | ≤23.71      | PASS    |
|               | 5500            | SISO    | 14.14                       | ≤23.73      | PASS    |
|               | 5580            | SISO    | 13.41                       | ≤23.91      | PASS    |
|               | 5600            | SISO    | 13.14                       | ≤23.77      | PASS    |
| 802.11n(HT20) | 5180            | SISO    | 14.26                       | ≤23.98      | PASS    |
|               | 5200            | SISO    | 14.27                       | ≤23.98      | PASS    |
|               | 5240            | SISO    | 14.07                       | ≤23.98      | PASS    |



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|               |      |       |        |        |      |
|---------------|------|-------|--------|--------|------|
|               | 5260 | SISO  | 13.97  | ≤23.80 | PASS |
|               | 5300 | SISO  | 14.36  | ≤23.78 | PASS |
|               | 5320 | SISO  | 14.18  | ≤23.78 | PASS |
|               | 5500 | SISO  | 13.74  | ≤23.79 | PASS |
|               | 5580 | SISO  | 13.02  | ≤23.79 | PASS |
|               | 5600 | SISO  | 12.76  | ≤23.76 | PASS |
|               | 5700 | SISO  | 13.09  | ≤23.80 | PASS |
| 802.11n(HT40) | 5190 | SISO  | 14.41  | ≤23.98 | PASS |
|               | 5230 | SISO  | 14.86  | ≤23.98 | PASS |
|               | 5270 | SISO  | 14.06  | ≤23.98 | PASS |
|               | 5310 | SISO  | 14.70  | ≤23.98 | PASS |
|               | 5510 | SISO  | 14.31  | ≤23.98 | PASS |
|               | 5550 | SISO  | 14.09  | ≤23.98 | PASS |
|               | 5590 | SISO  | 13.44  | ≤23.98 | PASS |
| 5670          | SISO | 13.71 | ≤23.98 | PASS   |      |

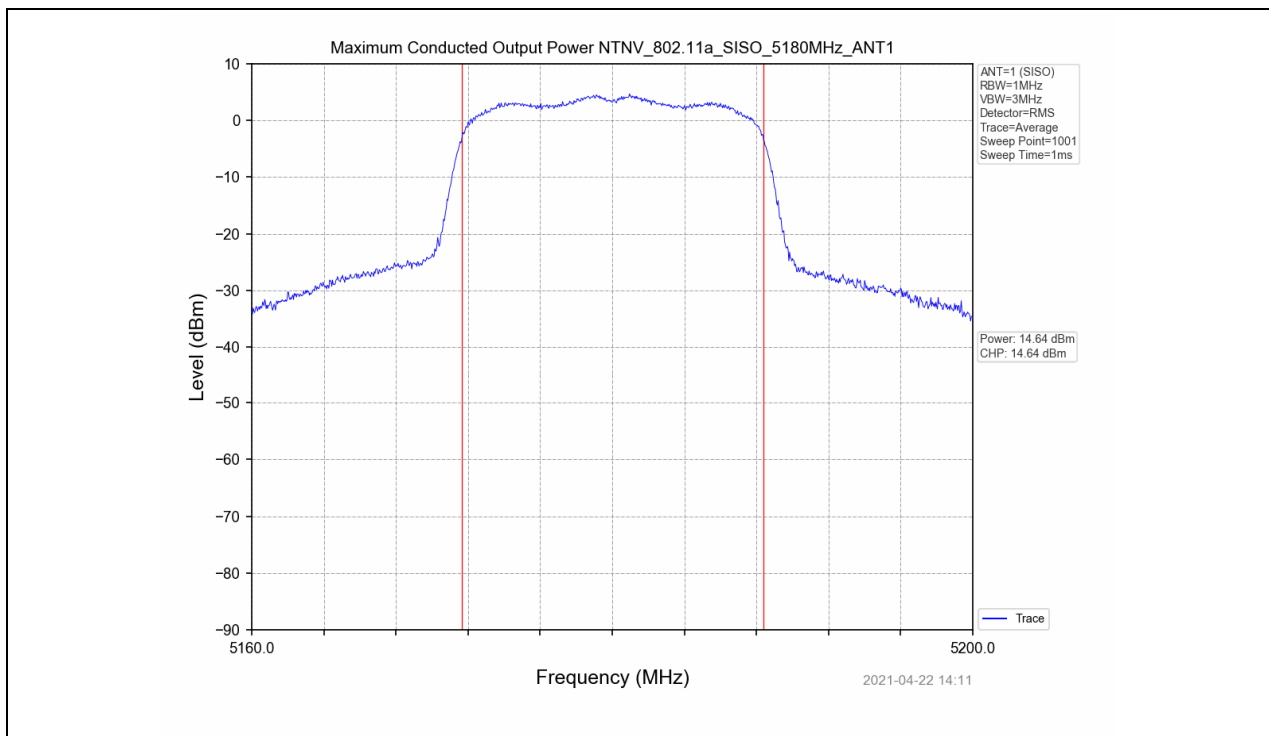
| Test Mode     | Frequency (MHz) | Tx Type | Measured Output Power (dBm) | Limit (dBm) | Verdict |
|---------------|-----------------|---------|-----------------------------|-------------|---------|
|               |                 |         | Ant 1                       |             |         |
| 802.11a       | 5180            | SISO    | 14.64                       | /           | PASS    |
|               | 5200            | SISO    | 14.59                       | /           | PASS    |
|               | 5240            | SISO    | 14.47                       | /           | PASS    |
|               | 5260            | SISO    | 14.39                       | ≤23.22      | PASS    |
|               | 5300            | SISO    | 14.26                       | ≤23.19      | PASS    |
|               | 5320            | SISO    | 14.56                       | ≤23.22      | PASS    |
|               | 5500            | SISO    | 14.14                       | ≤23.19      | PASS    |
|               | 5580            | SISO    | 13.41                       | ≤23.20      | PASS    |
|               | 5600            | SISO    | 13.14                       | ≤23.20      | PASS    |
|               | 5700            | SISO    | 13.40                       | ≤23.20      | PASS    |
| 802.11n(HT20) | 5180            | SISO    | 14.26                       | /           | PASS    |
|               | 5200            | SISO    | 14.27                       | /           | PASS    |
|               | 5240            | SISO    | 14.07                       | /           | PASS    |
|               | 5260            | SISO    | 13.97                       | ≤23.46      | PASS    |
|               | 5300            | SISO    | 14.36                       | ≤23.20      | PASS    |
|               | 5320            | SISO    | 14.18                       | ≤23.47      | PASS    |
|               | 5500            | SISO    | 13.74                       | ≤23.46      | PASS    |
|               | 5580            | SISO    | 13.02                       | ≤23.46      | PASS    |
|               | 5600            | SISO    | 12.76                       | ≤23.46      | PASS    |
|               | 5700            | SISO    | 13.09                       | ≤23.47      | PASS    |
| 802.11n(HT40) | 5190            | SISO    | 14.41                       | /           | PASS    |
|               | 5230            | SISO    | 14.86                       | /           | PASS    |



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|  |      |      |       |        |      |
|--|------|------|-------|--------|------|
|  | 5270 | SISO | 14.06 | ≤23.98 | PASS |
|  | 5310 | SISO | 14.70 | ≤23.98 | PASS |
|  | 5510 | SISO | 14.31 | ≤23.98 | PASS |
|  | 5550 | SISO | 14.09 | ≤23.98 | PASS |
|  | 5590 | SISO | 13.44 | ≤23.98 | PASS |
|  | 5670 | SISO | 13.71 | ≤23.98 | PASS |

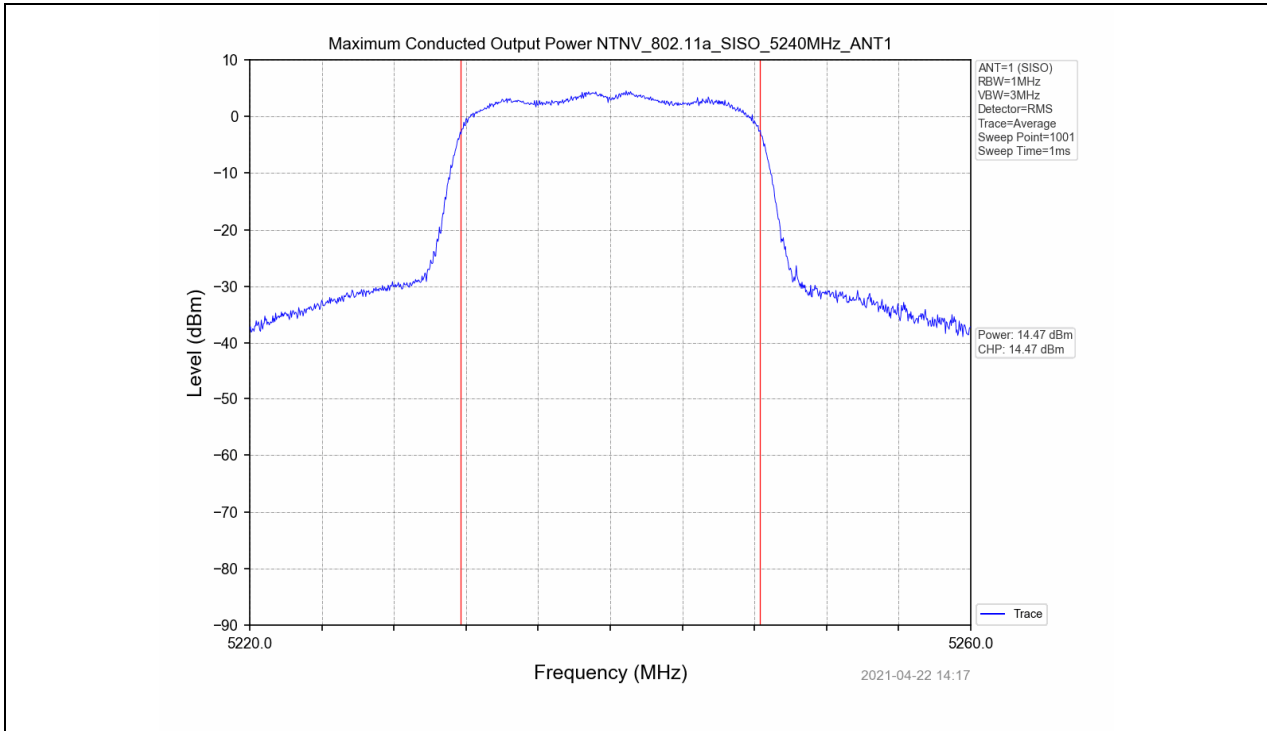
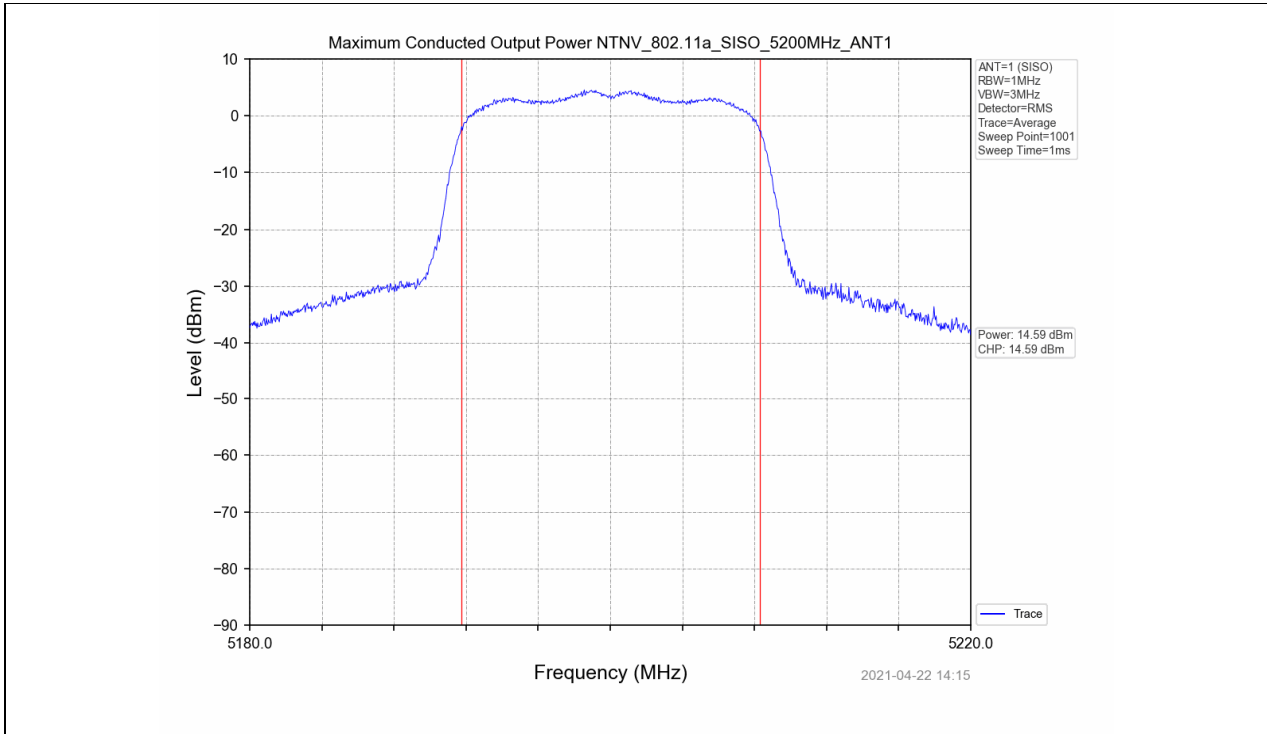
**3.2 Test Graph**



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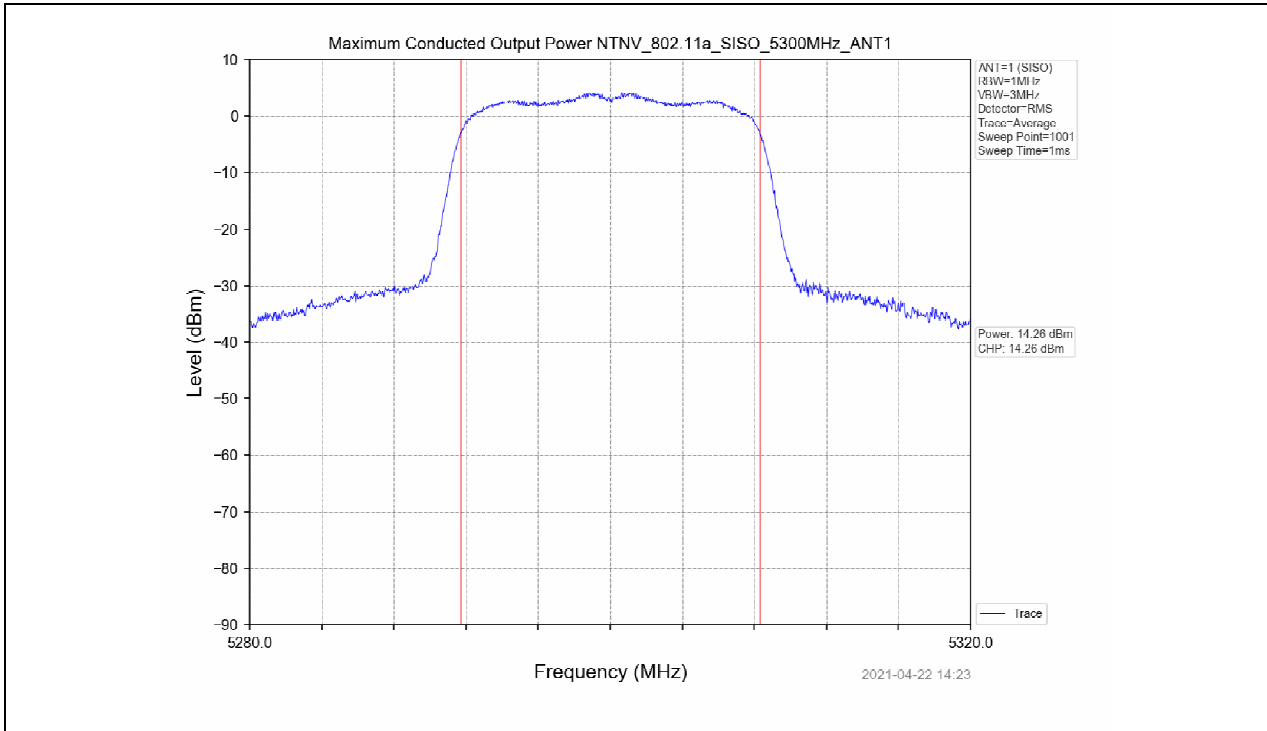
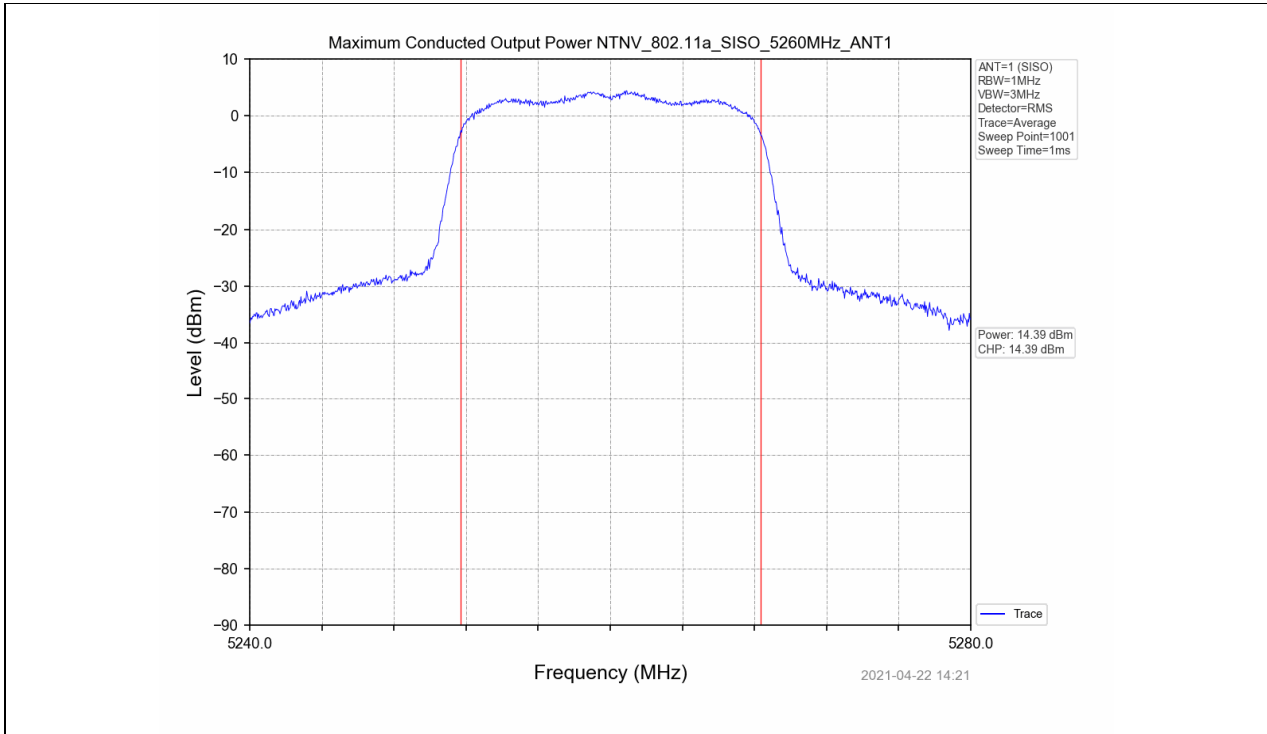
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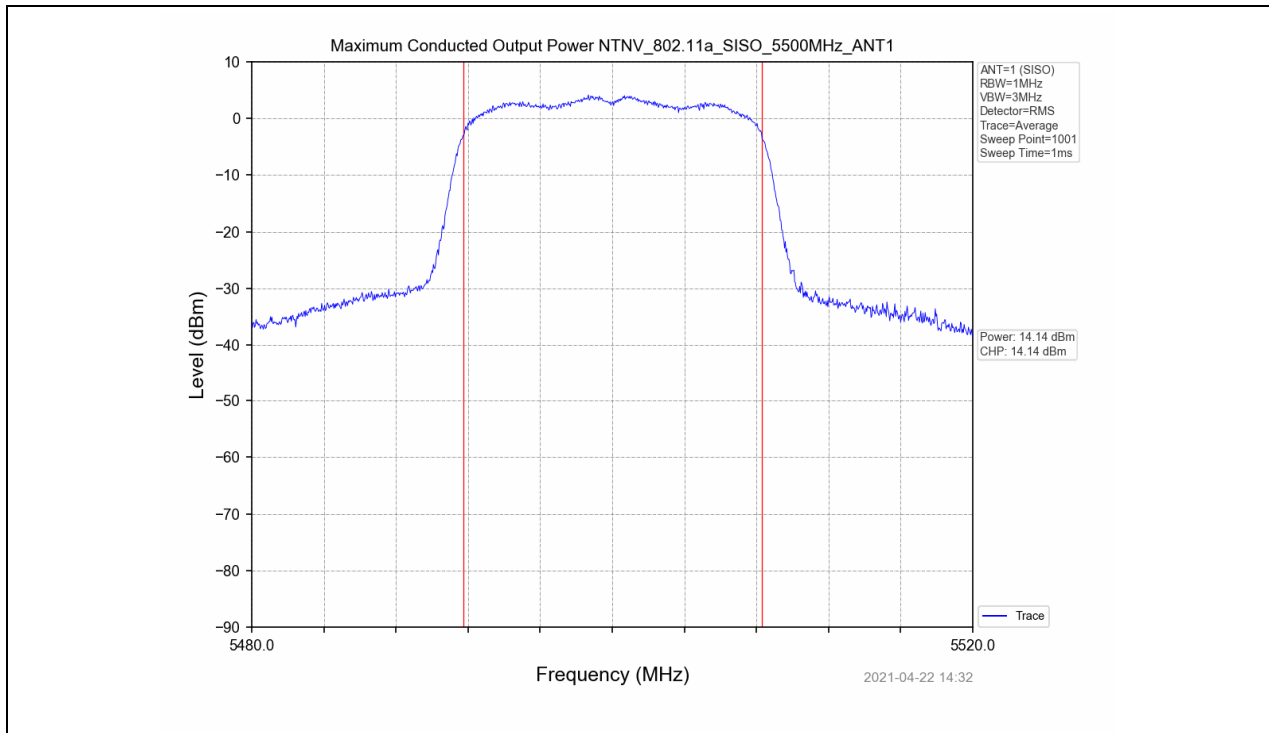
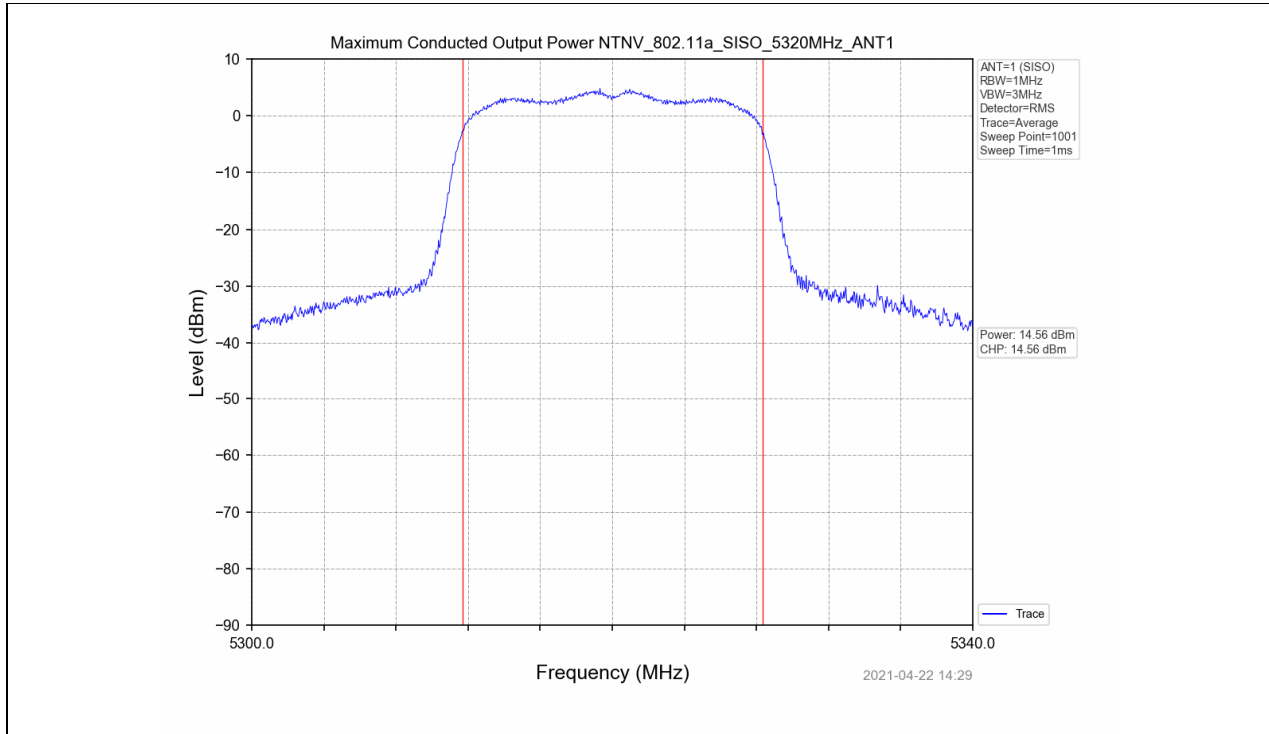
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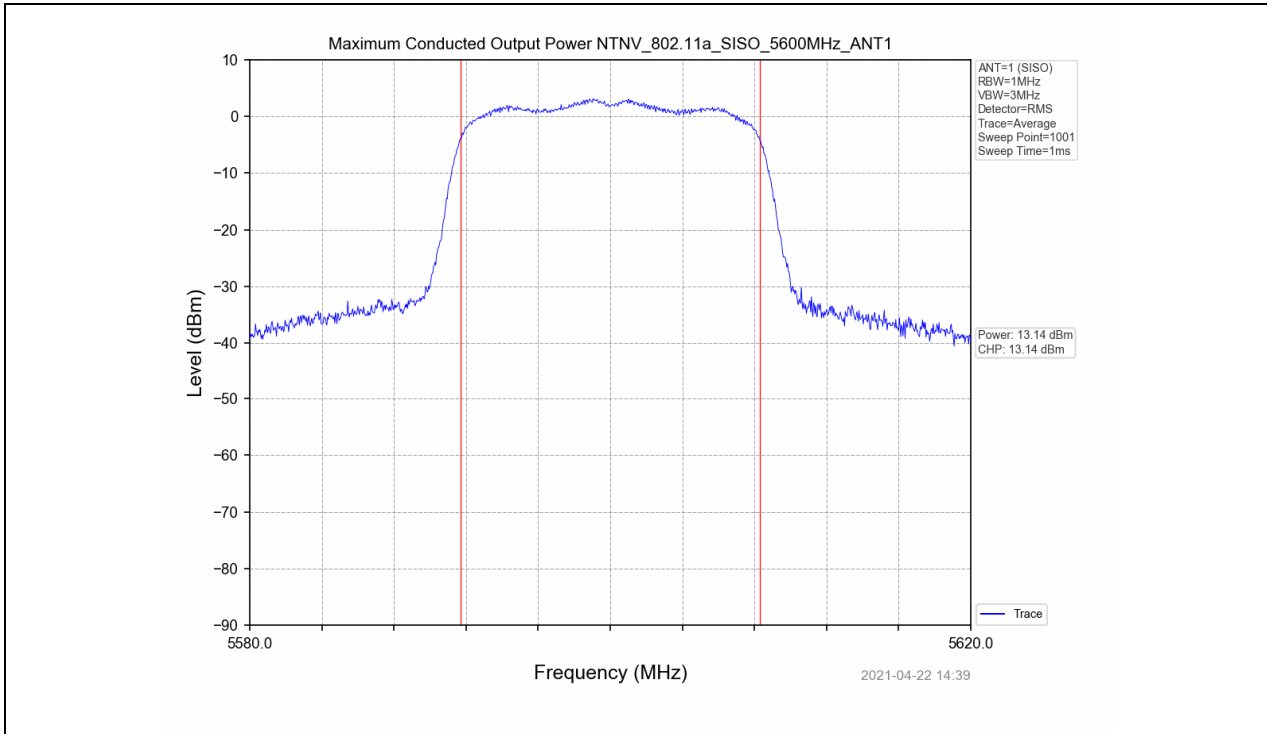
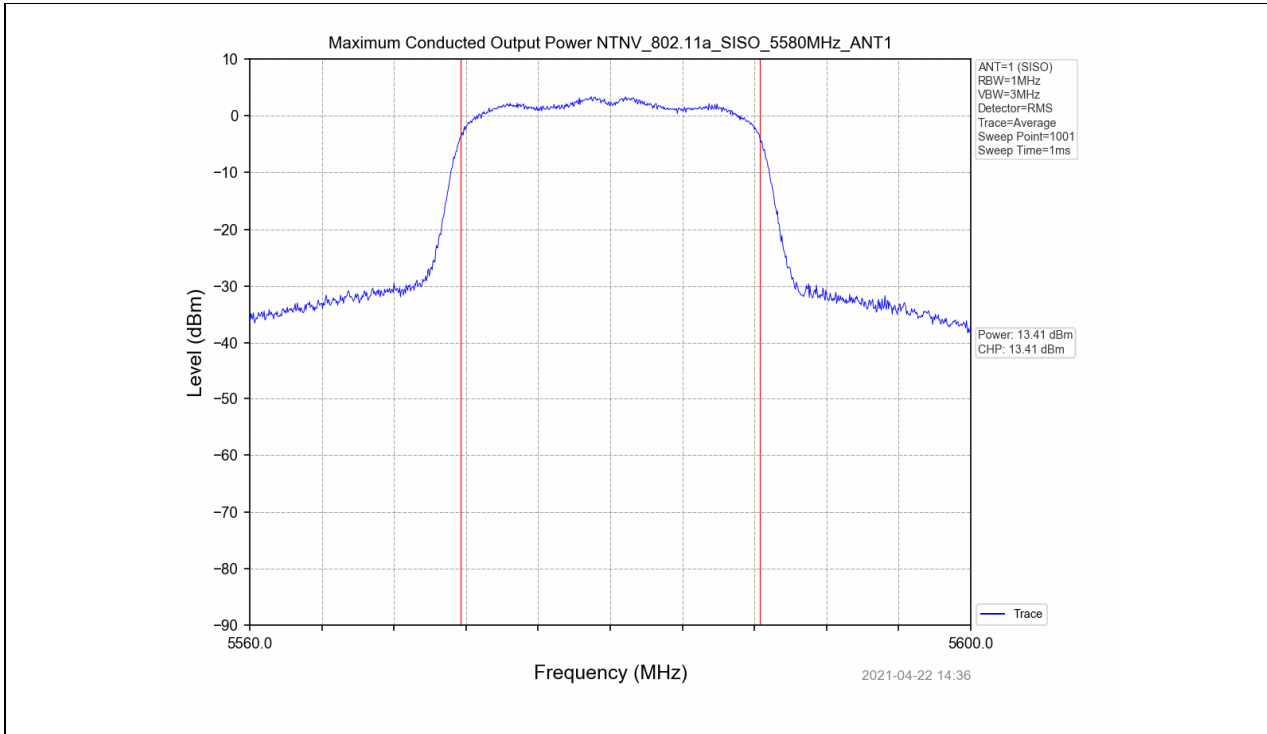
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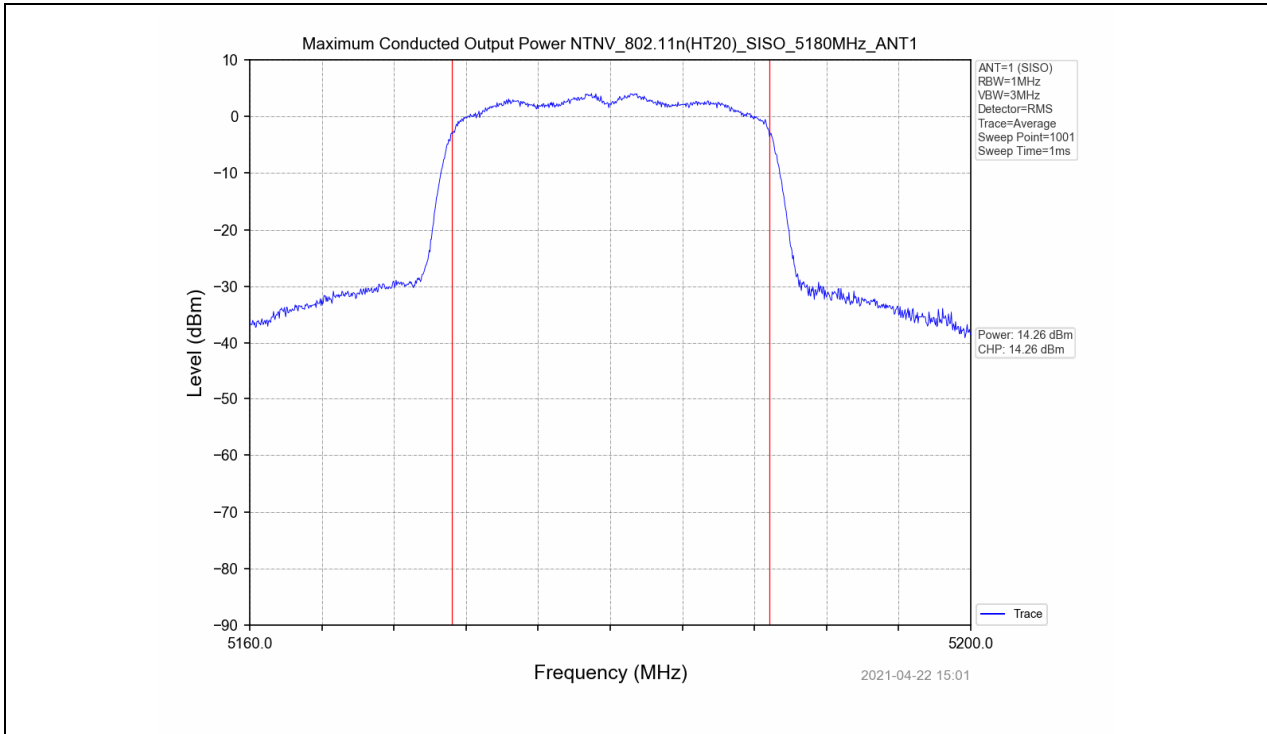
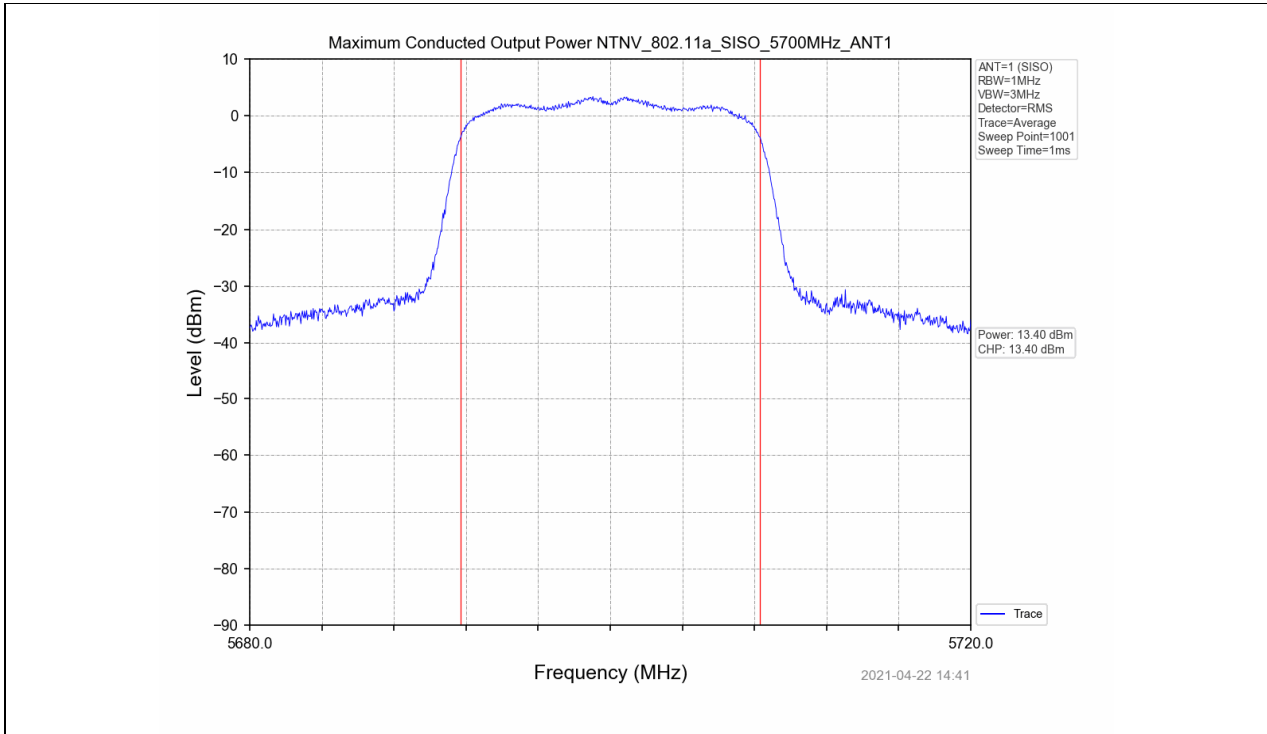


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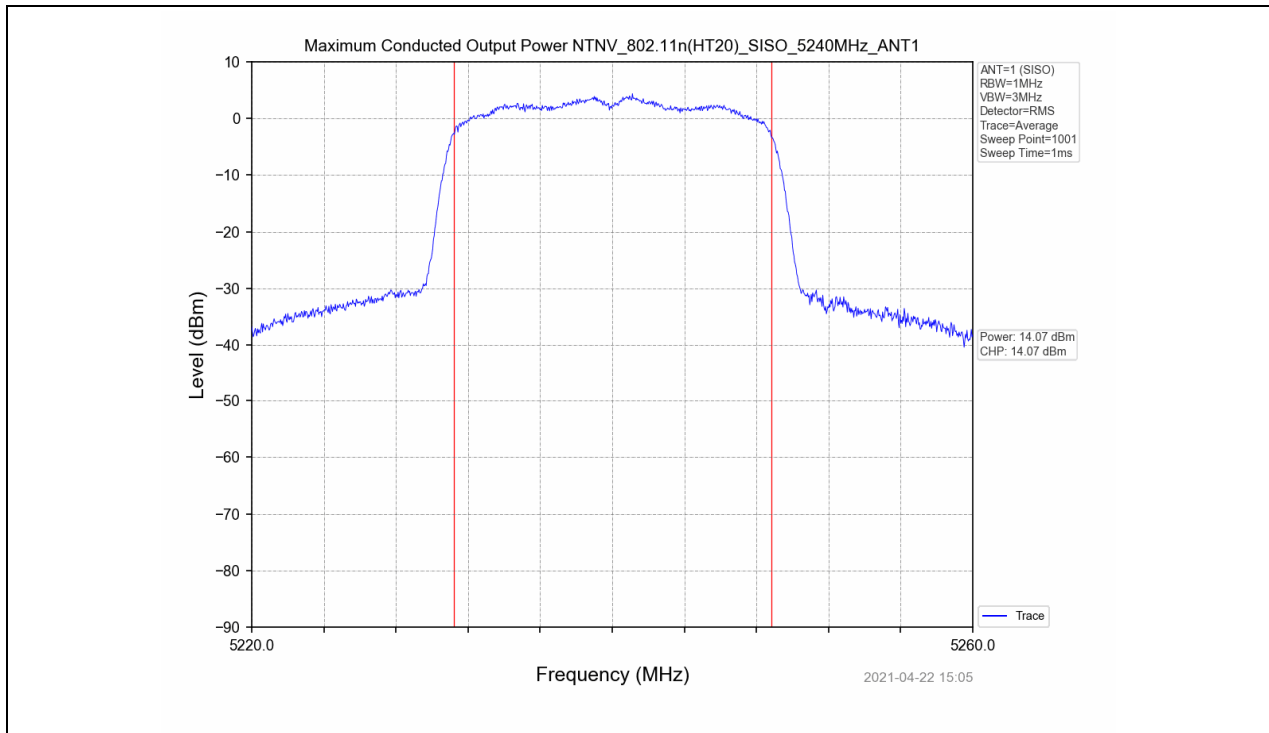
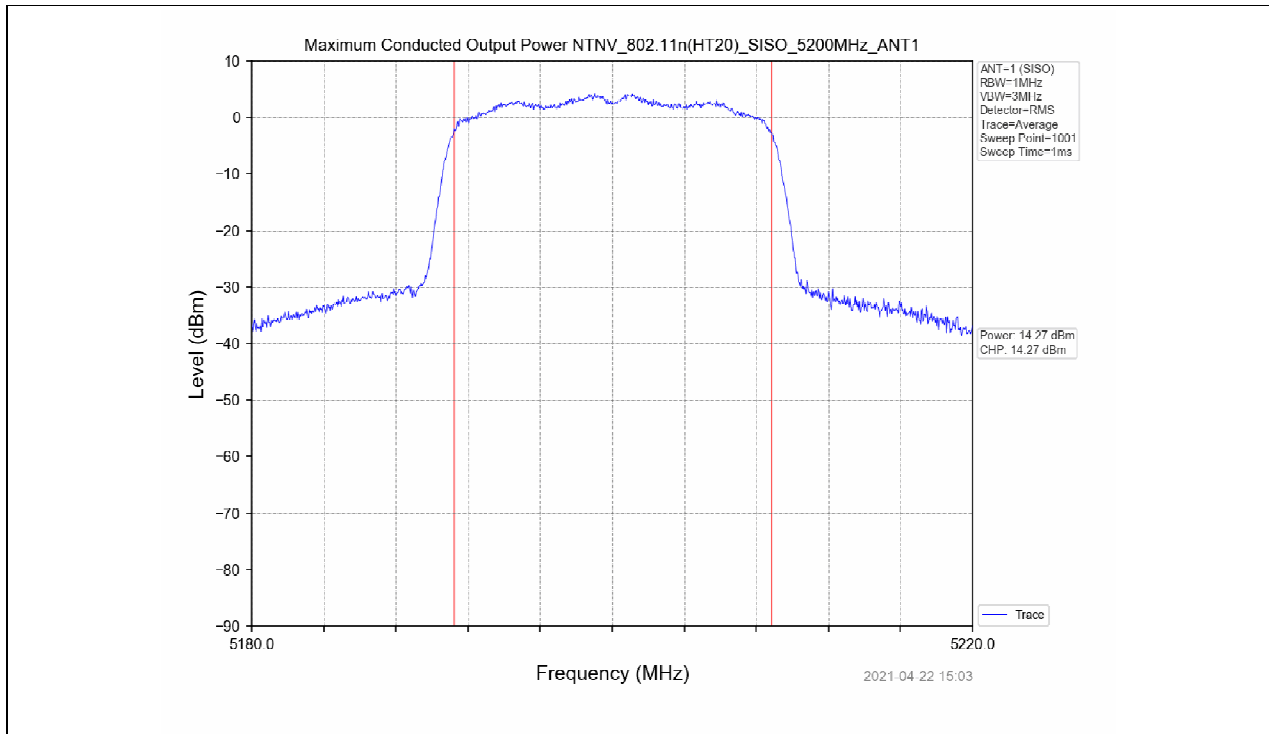




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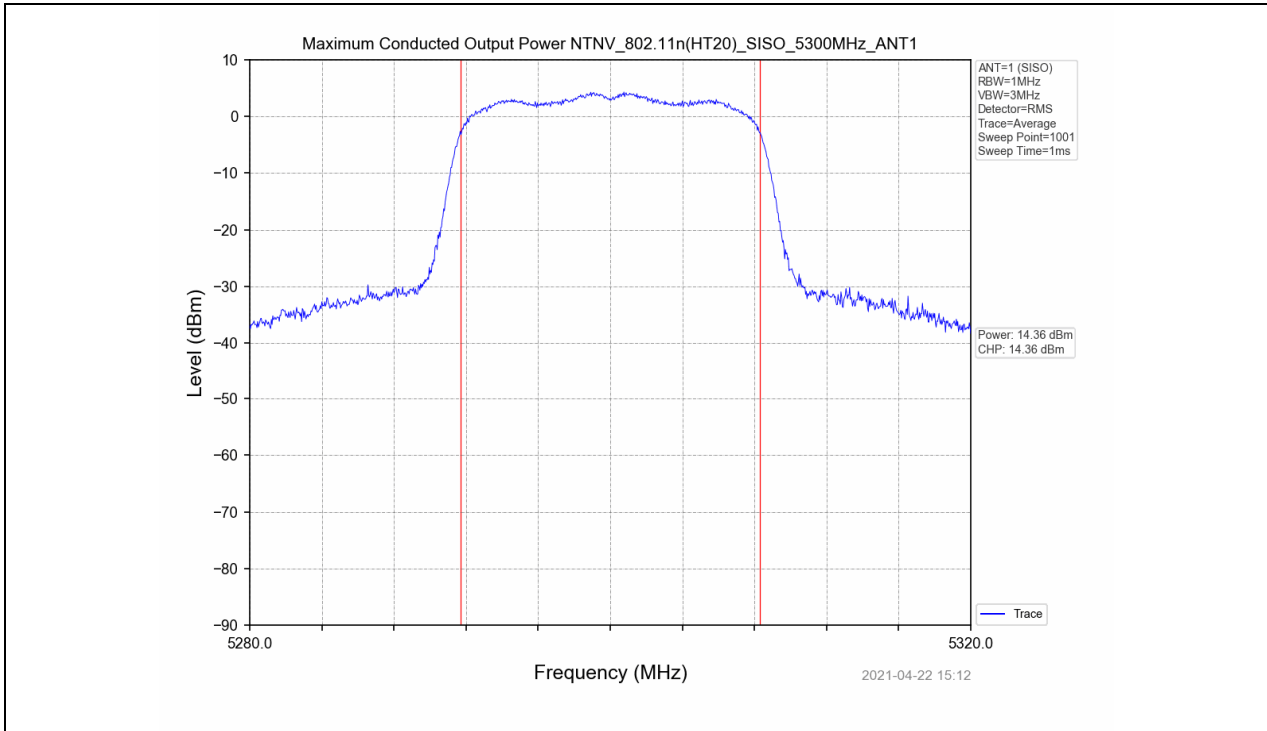
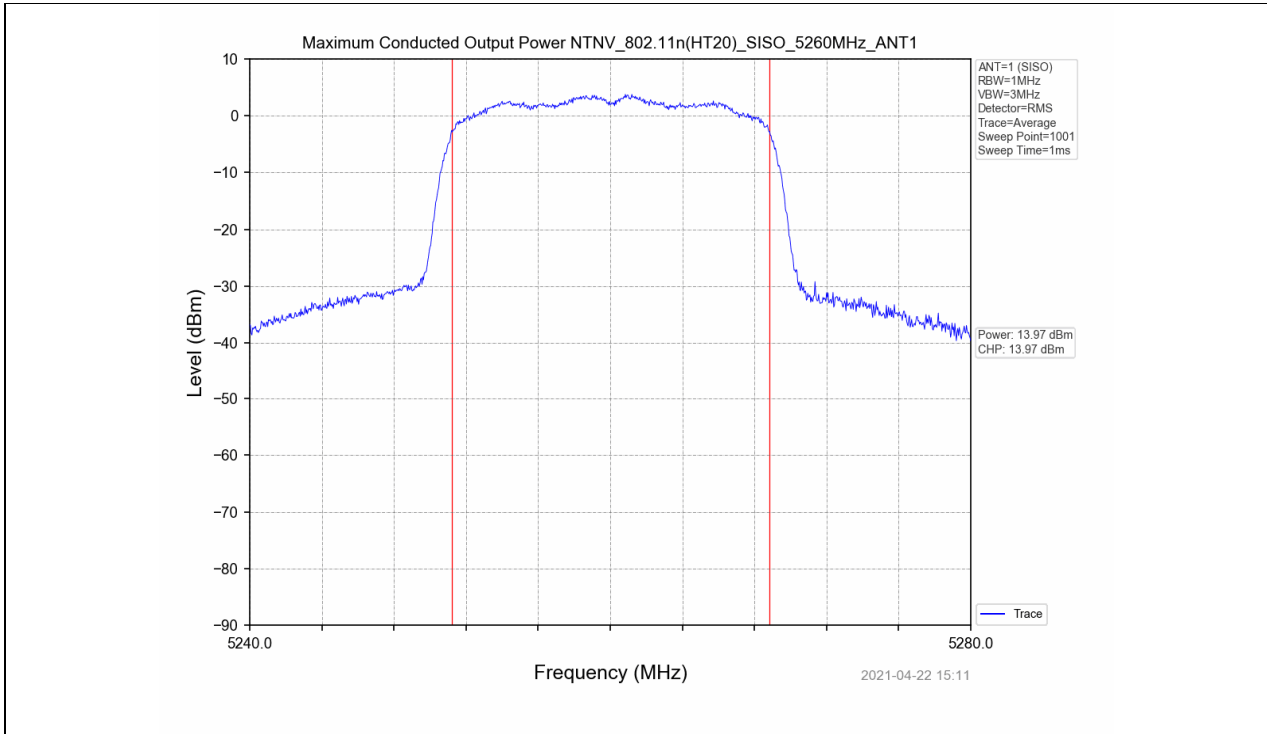




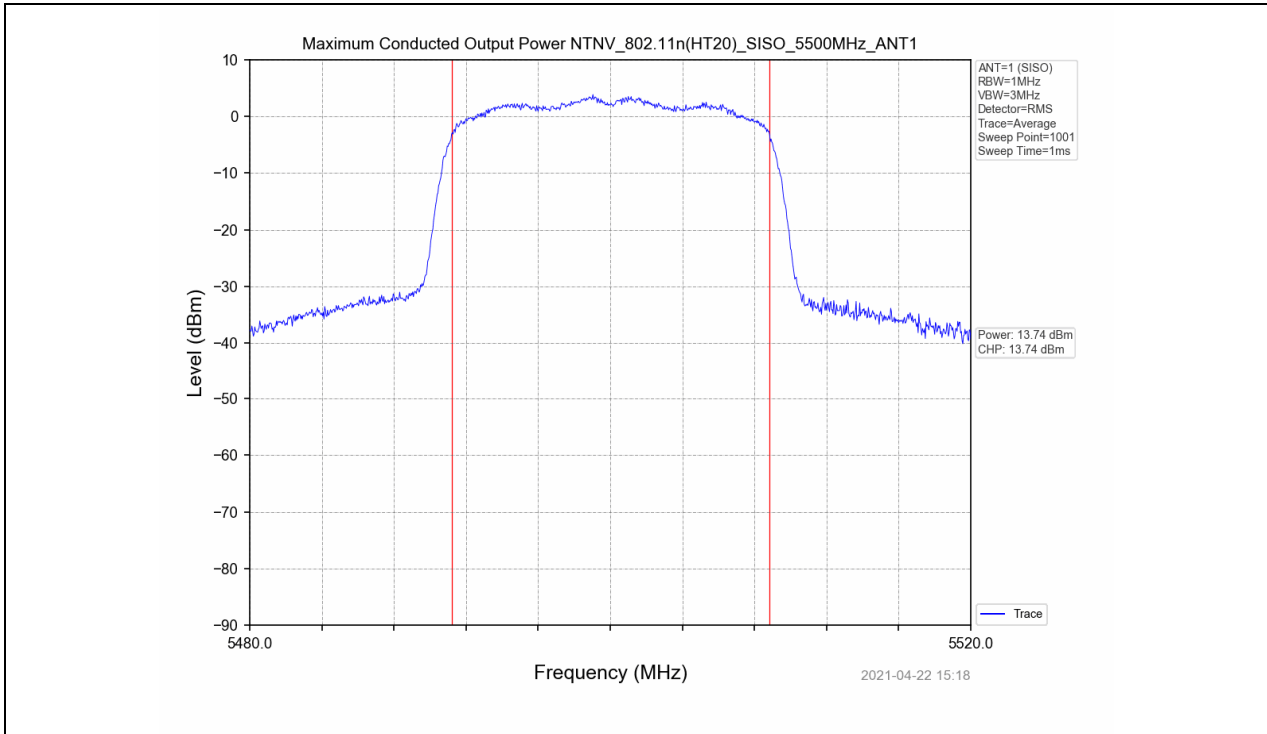
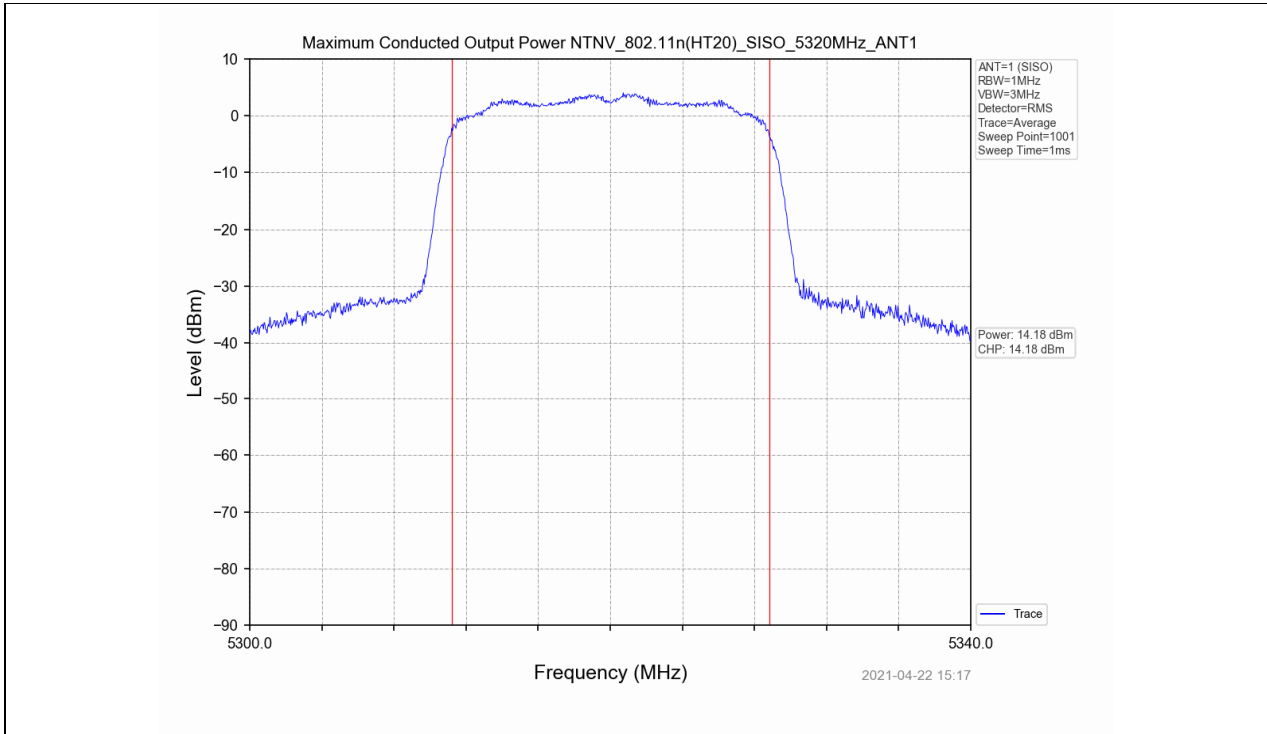
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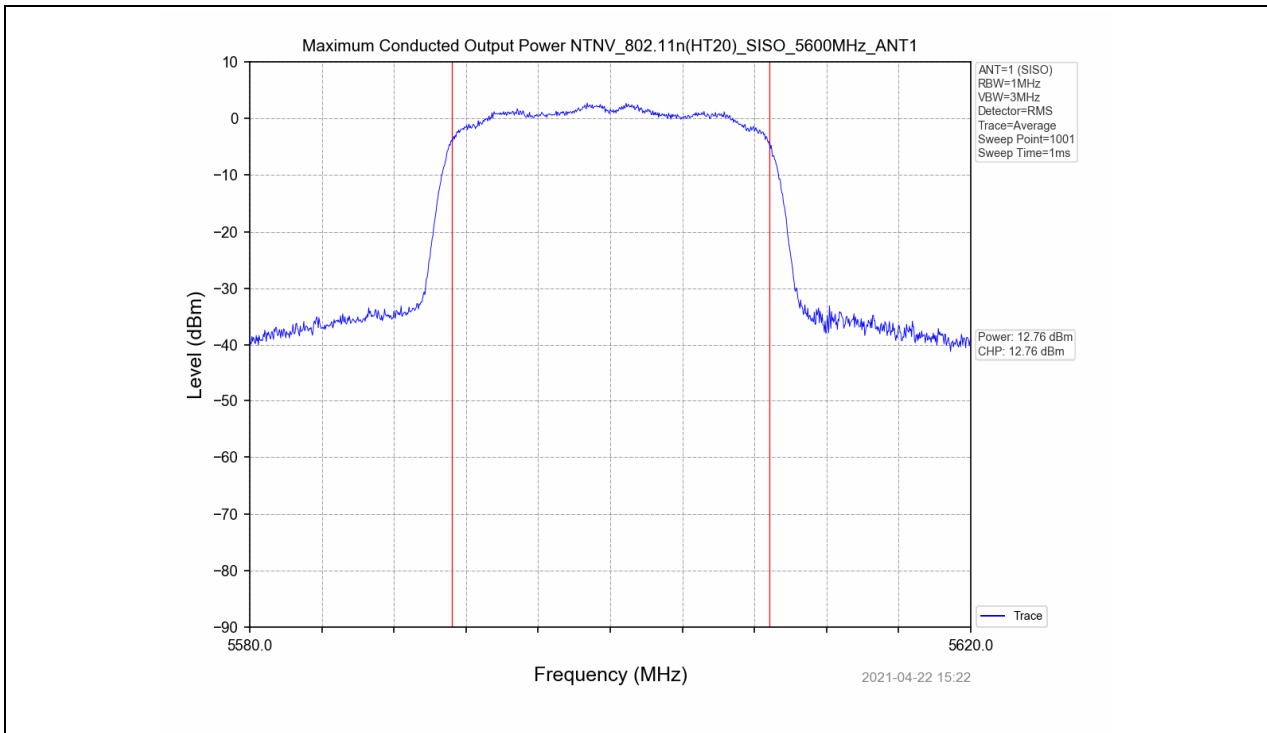
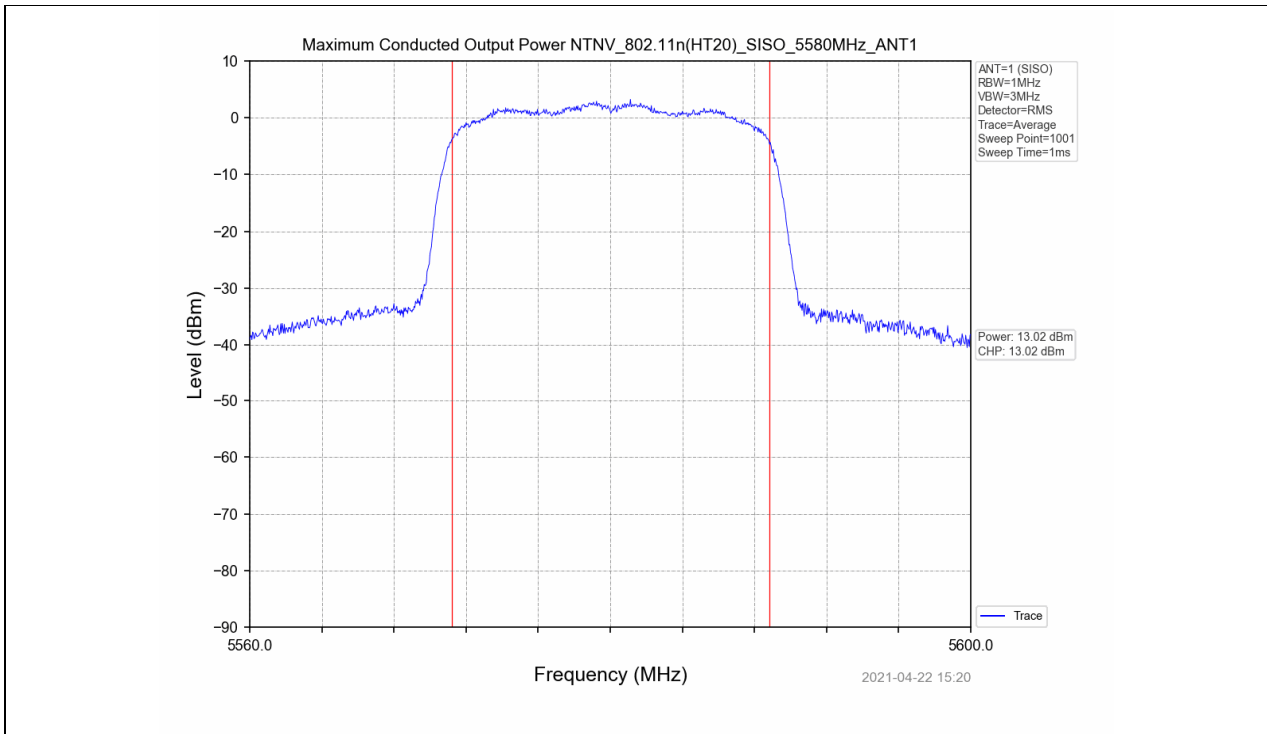
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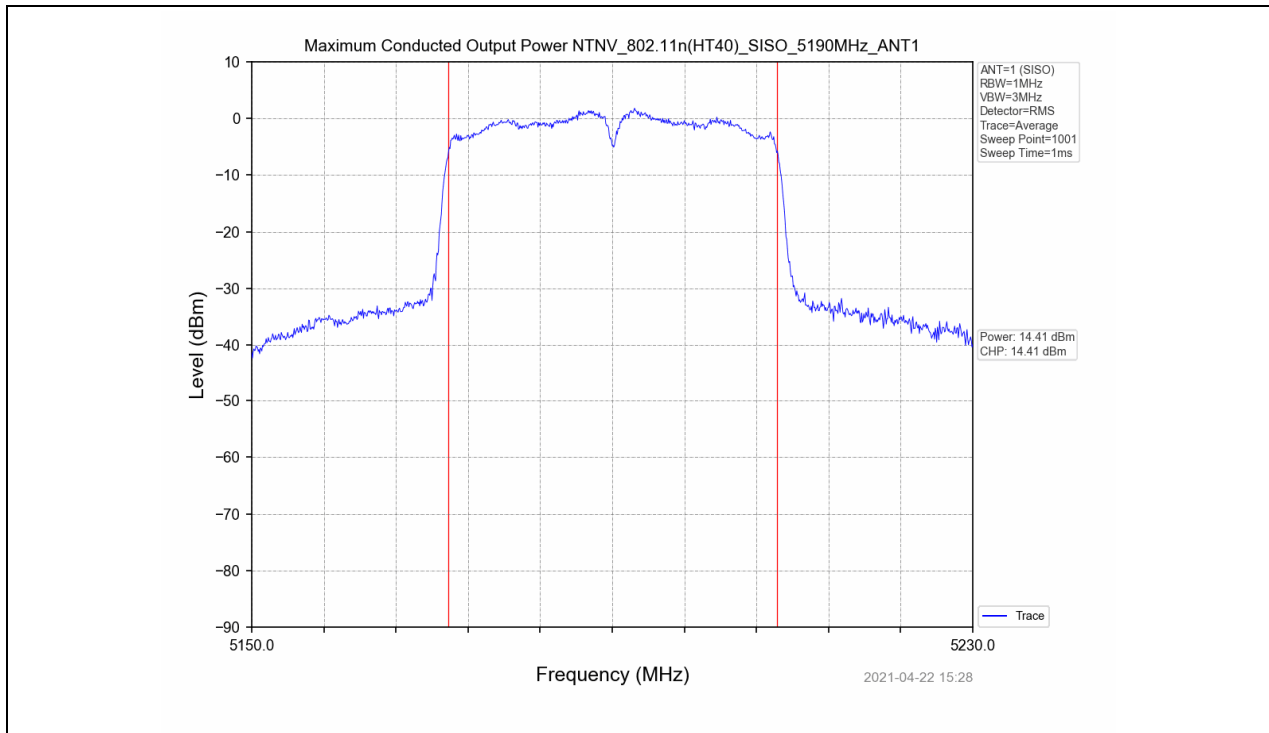
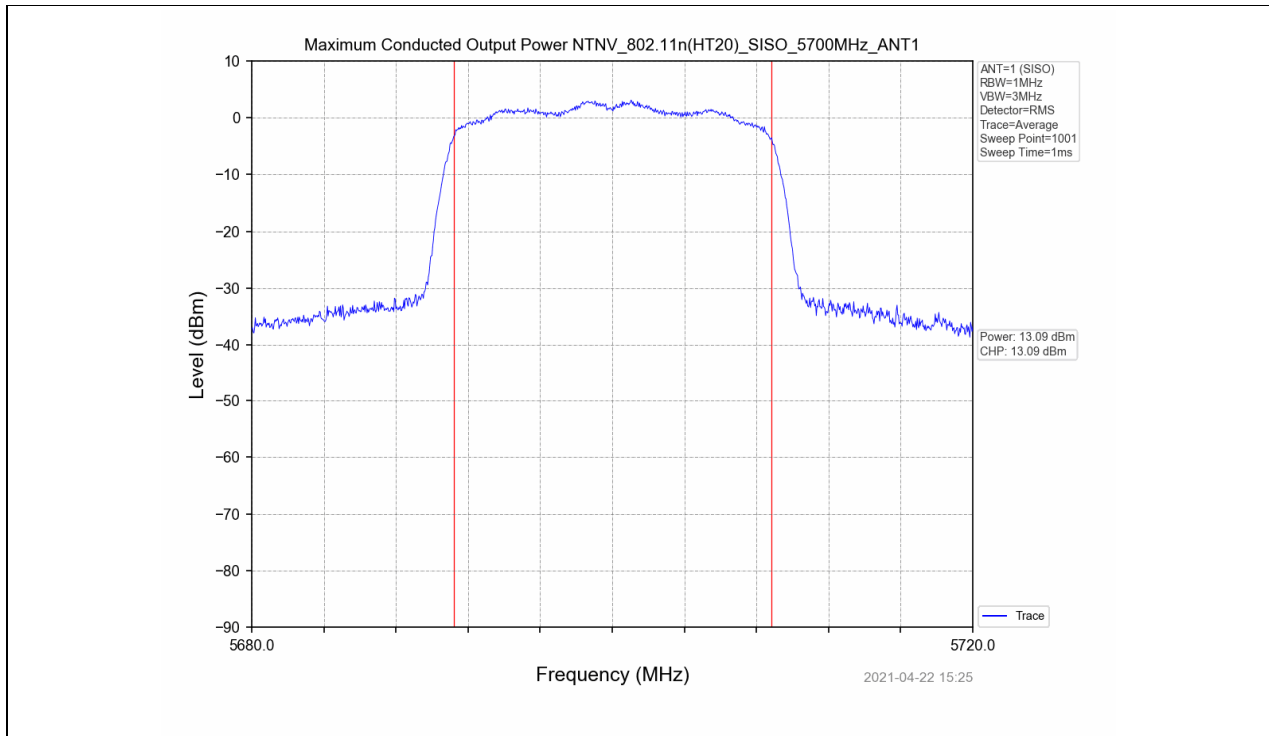
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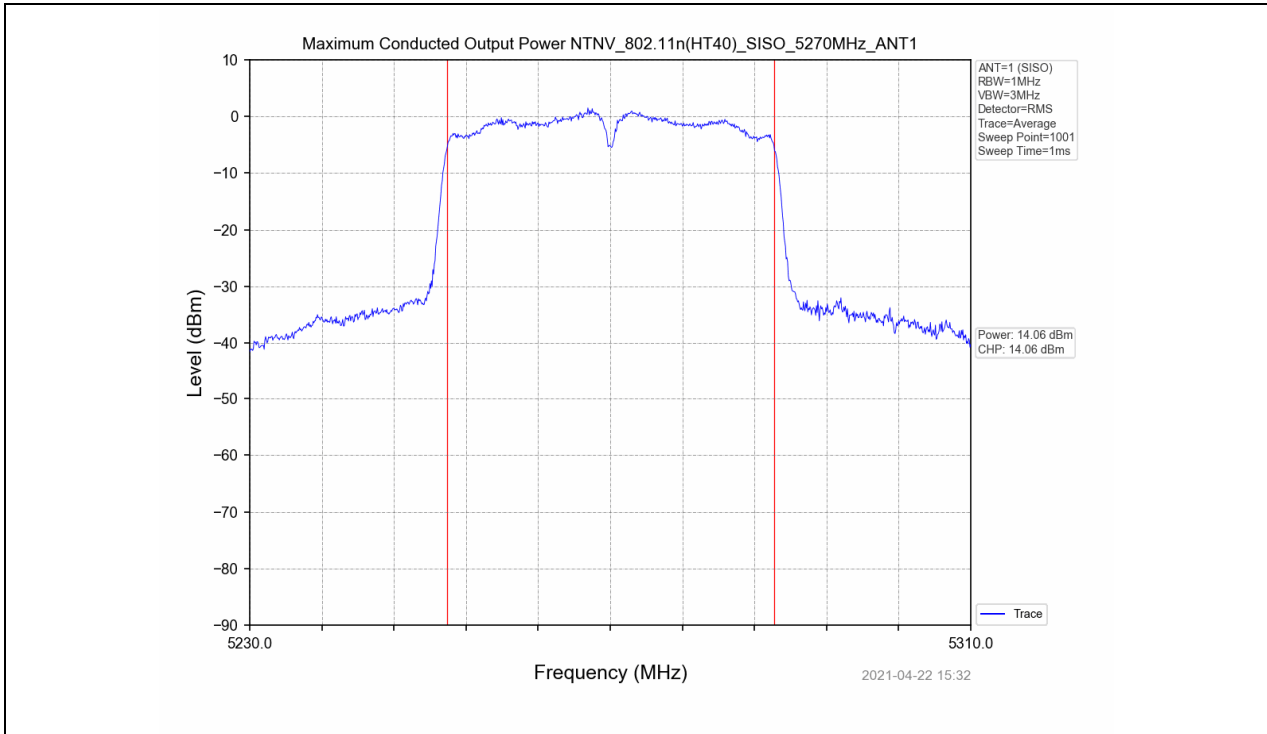
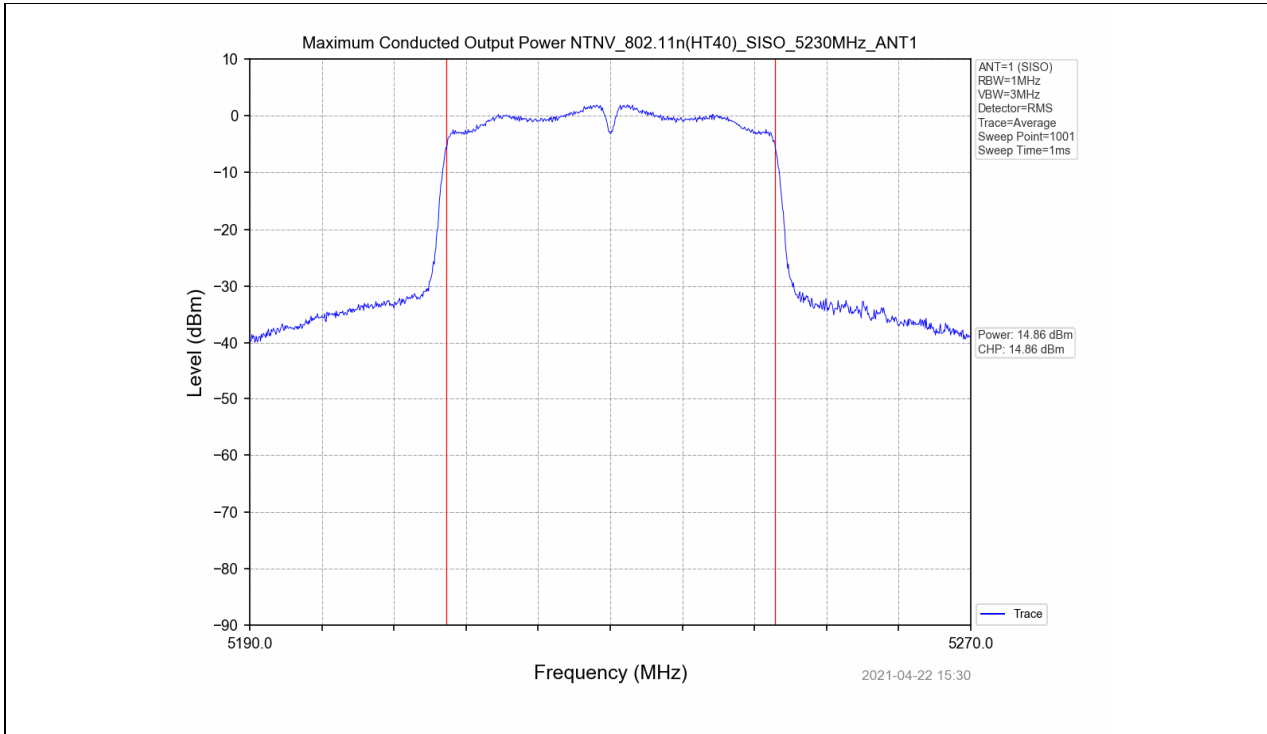
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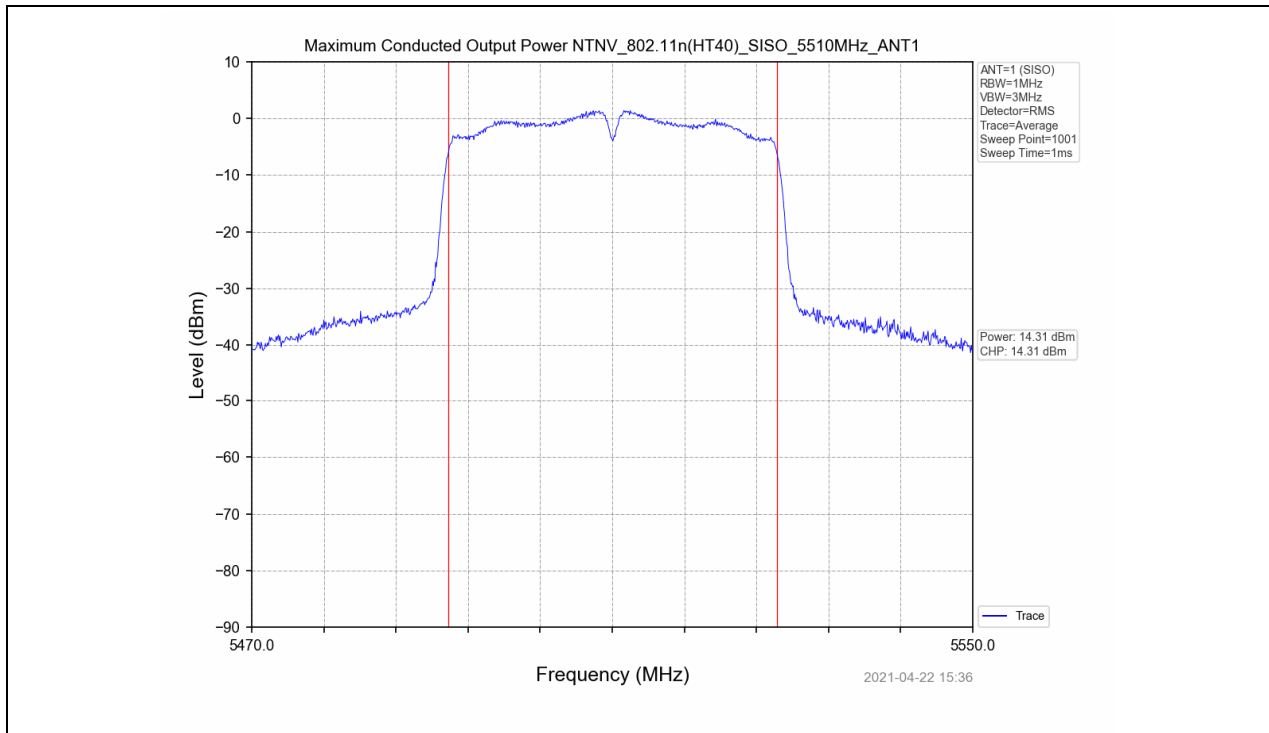
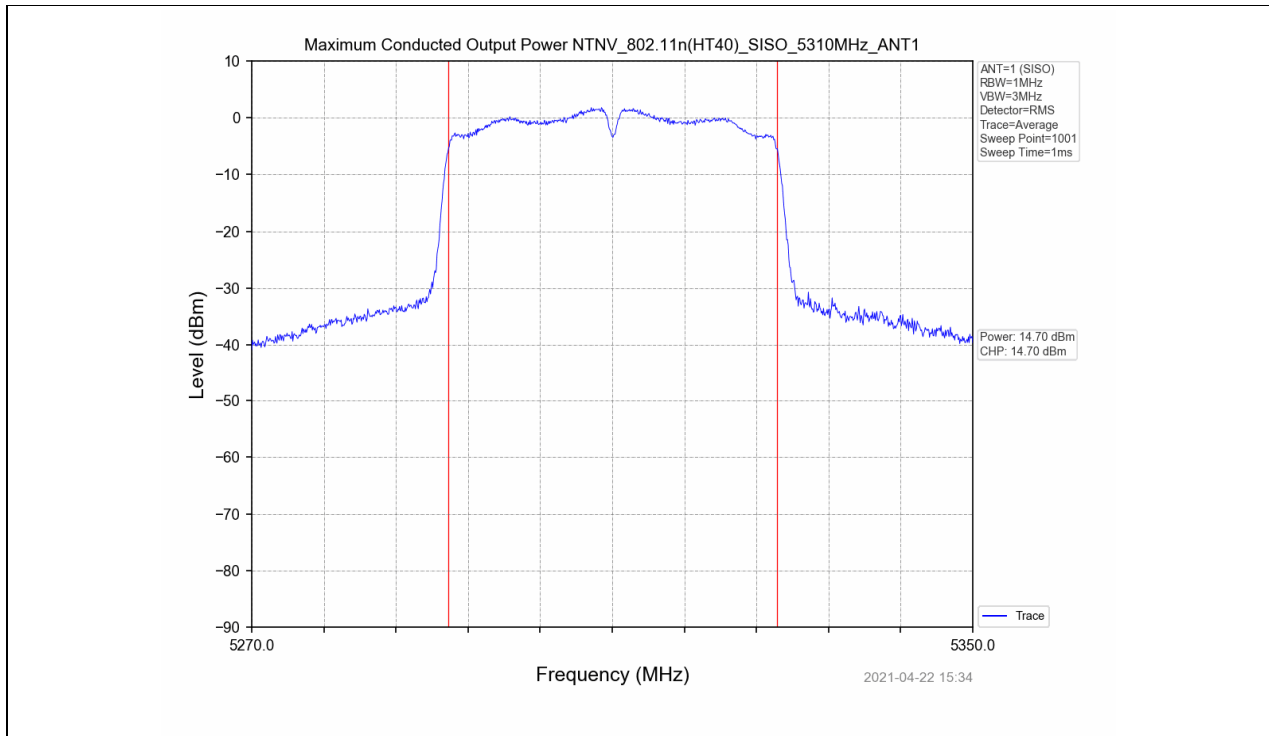
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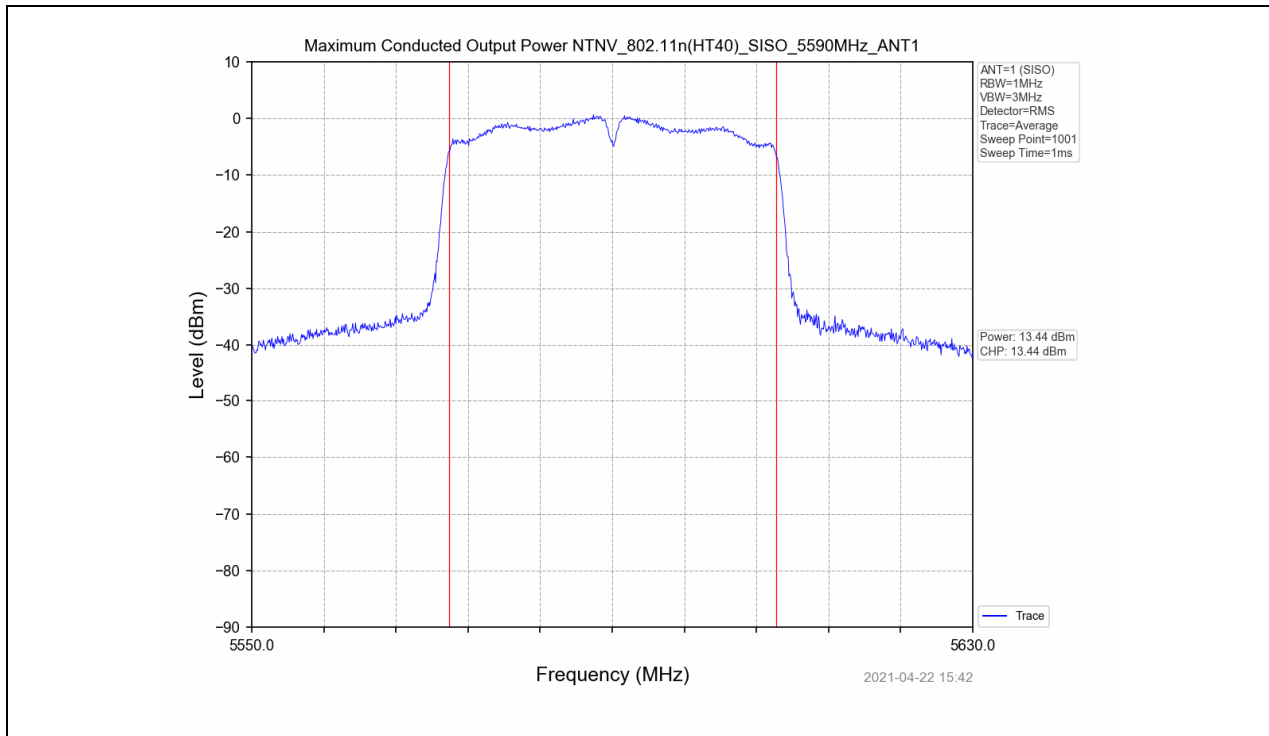
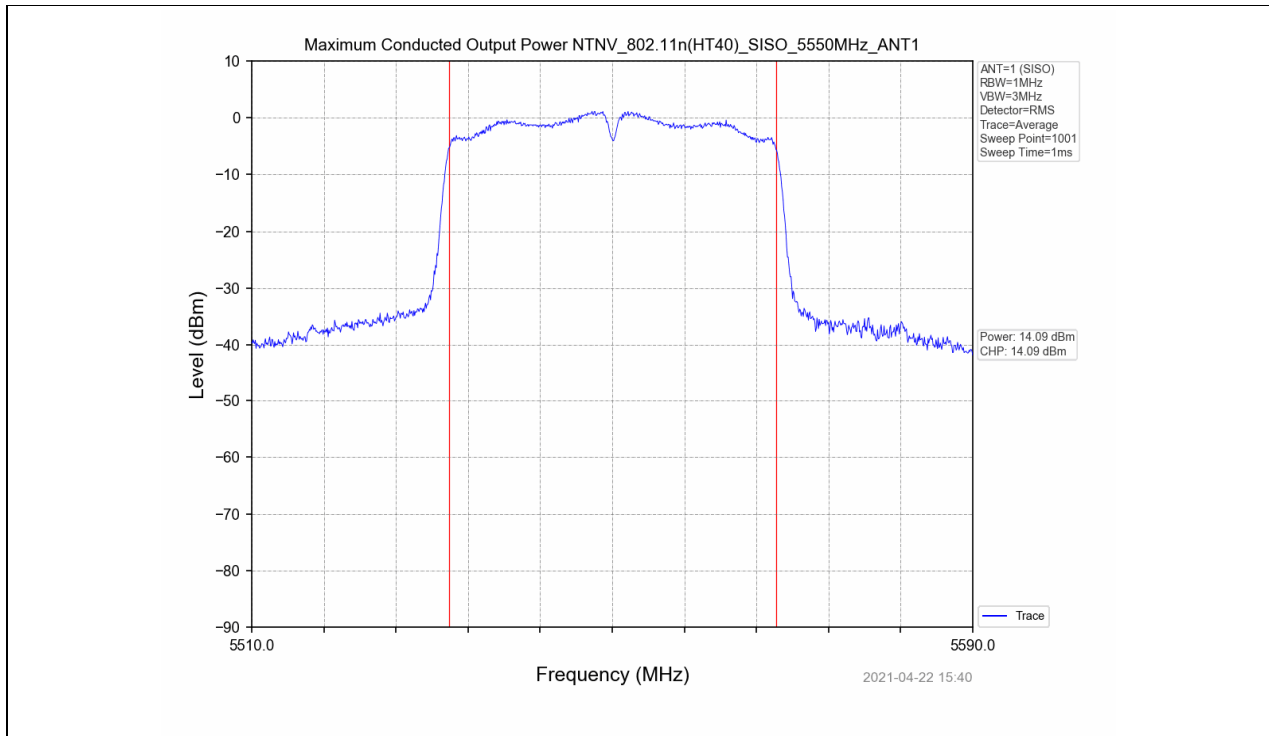


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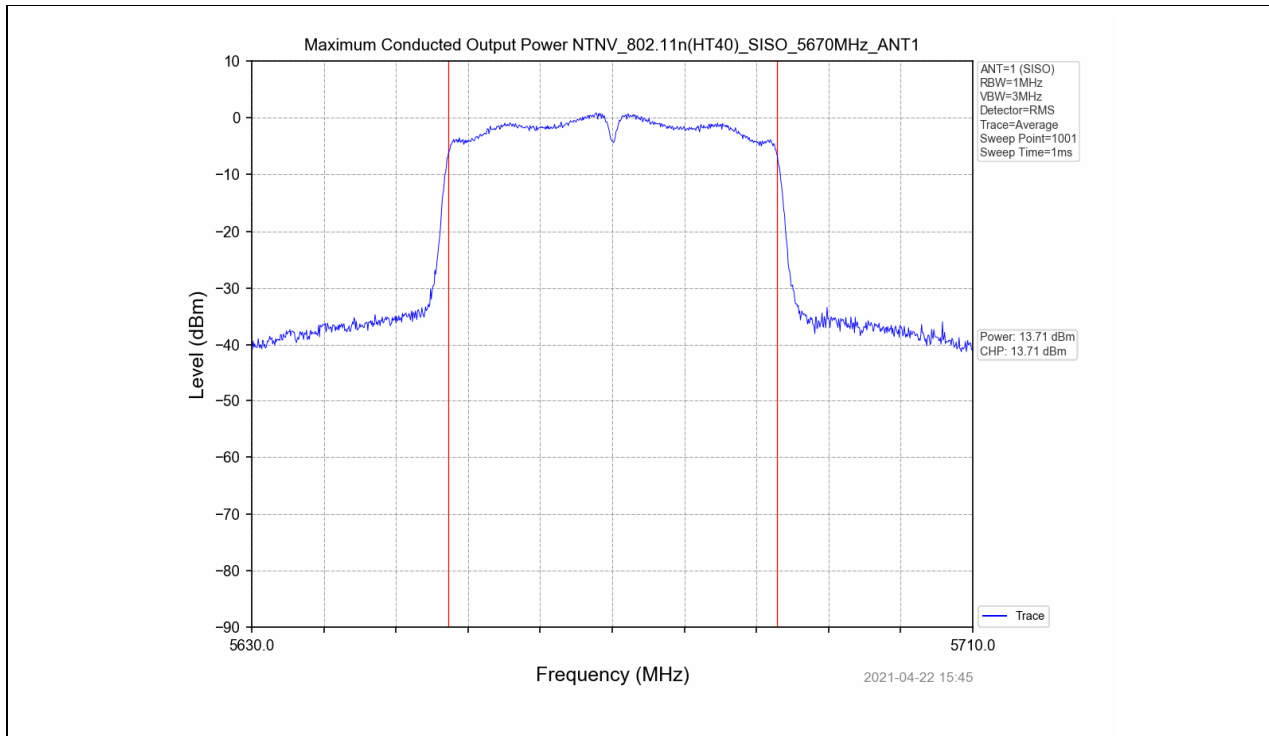


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**4. Maximum Power Spectral Density (PSD)**

**4.1 Test Result**

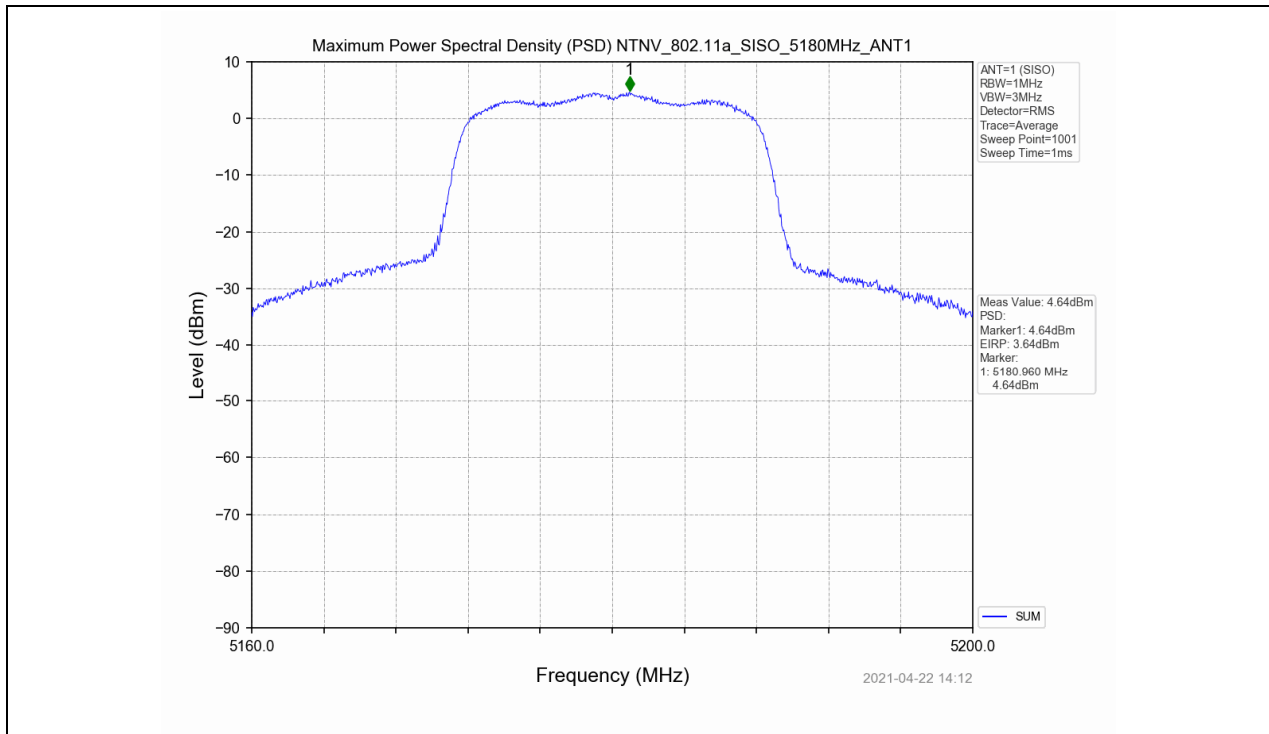
| Test Mode     | Frequency (MHz) | Tx Type | Maximum Power Spectral Density (dBm/MHz) | Limits (dBm/MHz) | Verdict |
|---------------|-----------------|---------|--|------------------|---------|
|               |                 |         | Ant 1                                    |                  |         |
| 802.11a       | 5180            | SISO    | 4.64                                     | ≤11              | PASS    |
|               | 5200            | SISO    | 4.64                                     | ≤11              | PASS    |
|               | 5240            | SISO    | 4.49                                     | ≤11              | PASS    |
|               | 5260            | SISO    | 4.32                                     | ≤11              | PASS    |
|               | 5300            | SISO    | 4.51                                     | ≤11              | PASS    |
|               | 5320            | SISO    | 4.65                                     | ≤11              | PASS    |
|               | 5500            | SISO    | 4.25                                     | ≤11              | PASS    |
|               | 5580            | SISO    | 3.63                                     | ≤11              | PASS    |
|               | 5600            | SISO    | 3.16                                     | ≤11              | PASS    |
| 802.11n(HT20) | 5700            | SISO    | 3.45                                     | ≤11              | PASS    |
|               | 5180            | SISO    | 4.63                                     | ≤11              | PASS    |
|               | 5200            | SISO    | 4.80                                     | ≤11              | PASS    |
|               | 5240            | SISO    | 4.18                                     | ≤11              | PASS    |



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|               |      |      |      |     |      |
|---------------|------|------|------|-----|------|
|               | 5260 | SISO | 4.21 | ≤11 | PASS |
|               | 5300 | SISO | 4.46 | ≤11 | PASS |
|               | 5320 | SISO | 4.32 | ≤11 | PASS |
|               | 5500 | SISO | 3.94 | ≤11 | PASS |
|               | 5580 | SISO | 3.61 | ≤11 | PASS |
|               | 5600 | SISO | 3.27 | ≤11 | PASS |
|               | 5700 | SISO | 3.52 | ≤11 | PASS |
| 802.11n(HT40) | 5190 | SISO | 2.17 | ≤11 | PASS |
|               | 5230 | SISO | 2.28 | ≤11 | PASS |
|               | 5270 | SISO | 2.04 | ≤11 | PASS |
|               | 5310 | SISO | 1.97 | ≤11 | PASS |
|               | 5510 | SISO | 1.78 | ≤11 | PASS |
|               | 5550 | SISO | 1.17 | ≤11 | PASS |
|               | 5590 | SISO | 0.67 | ≤11 | PASS |
|               | 5670 | SISO | 1.01 | ≤11 | PASS |

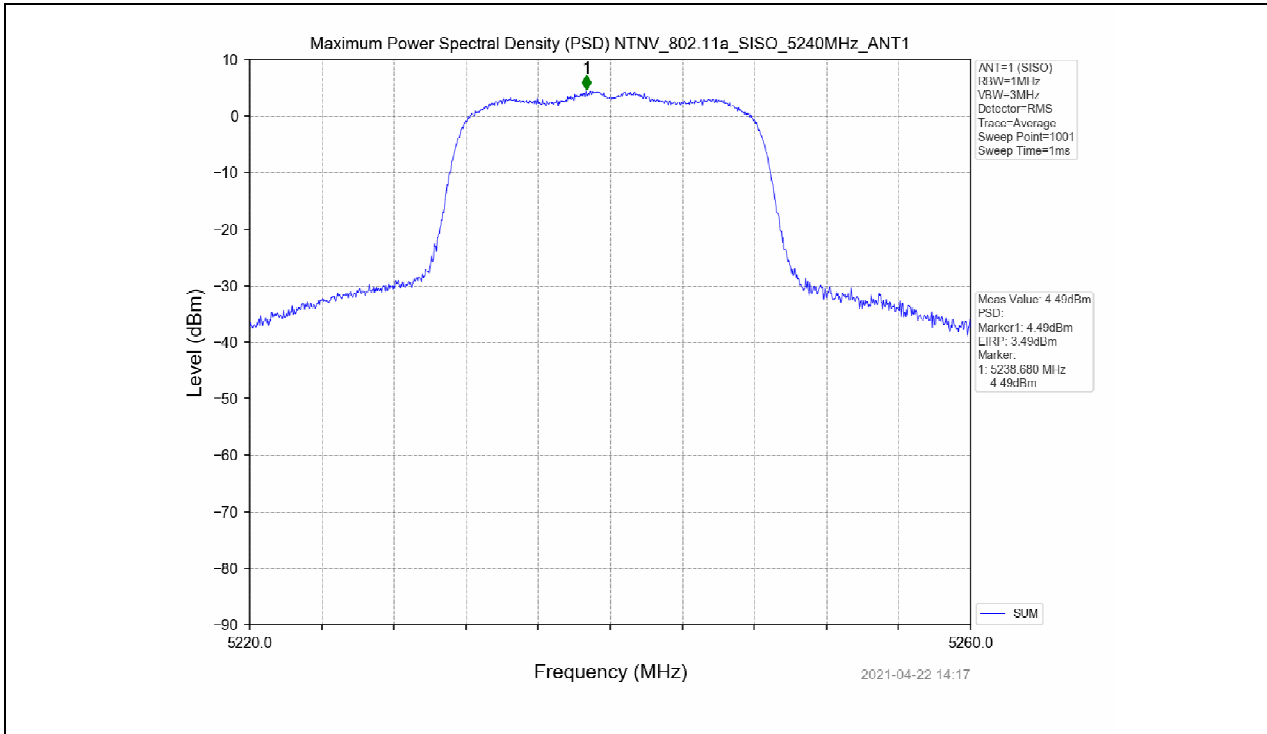
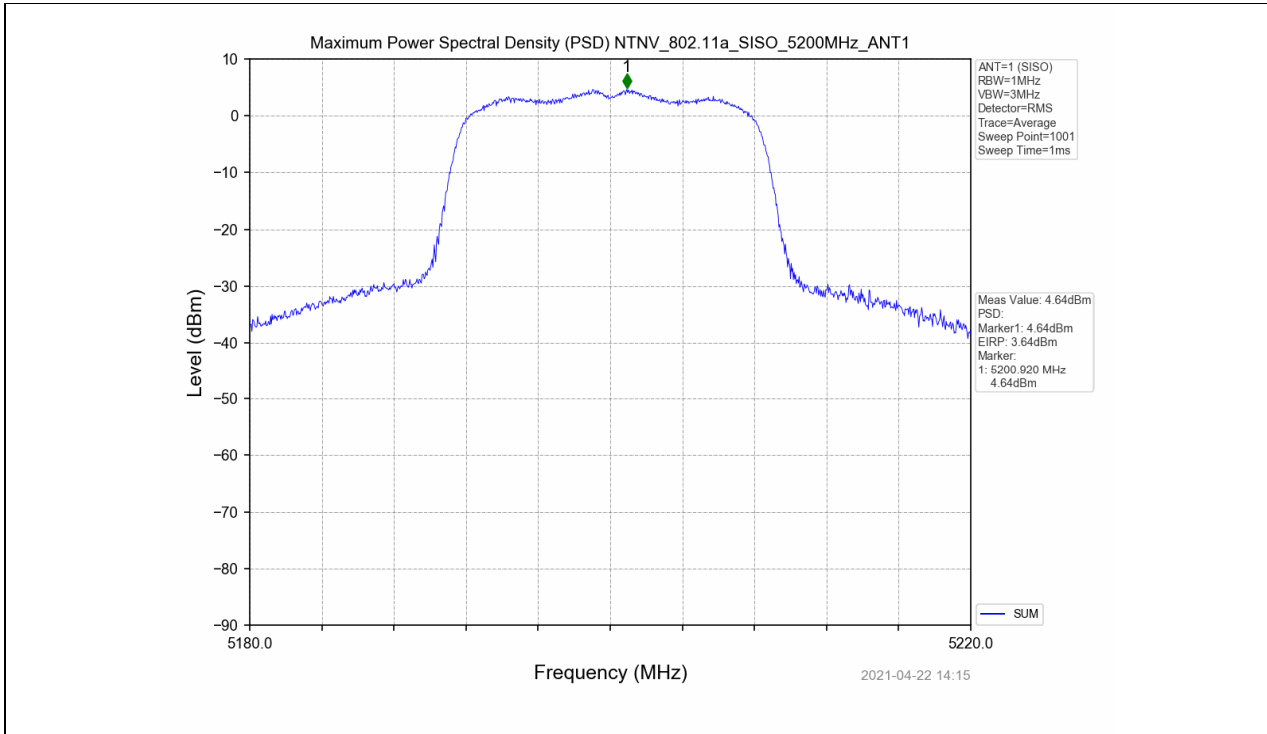
#### 4.2 Test Graph



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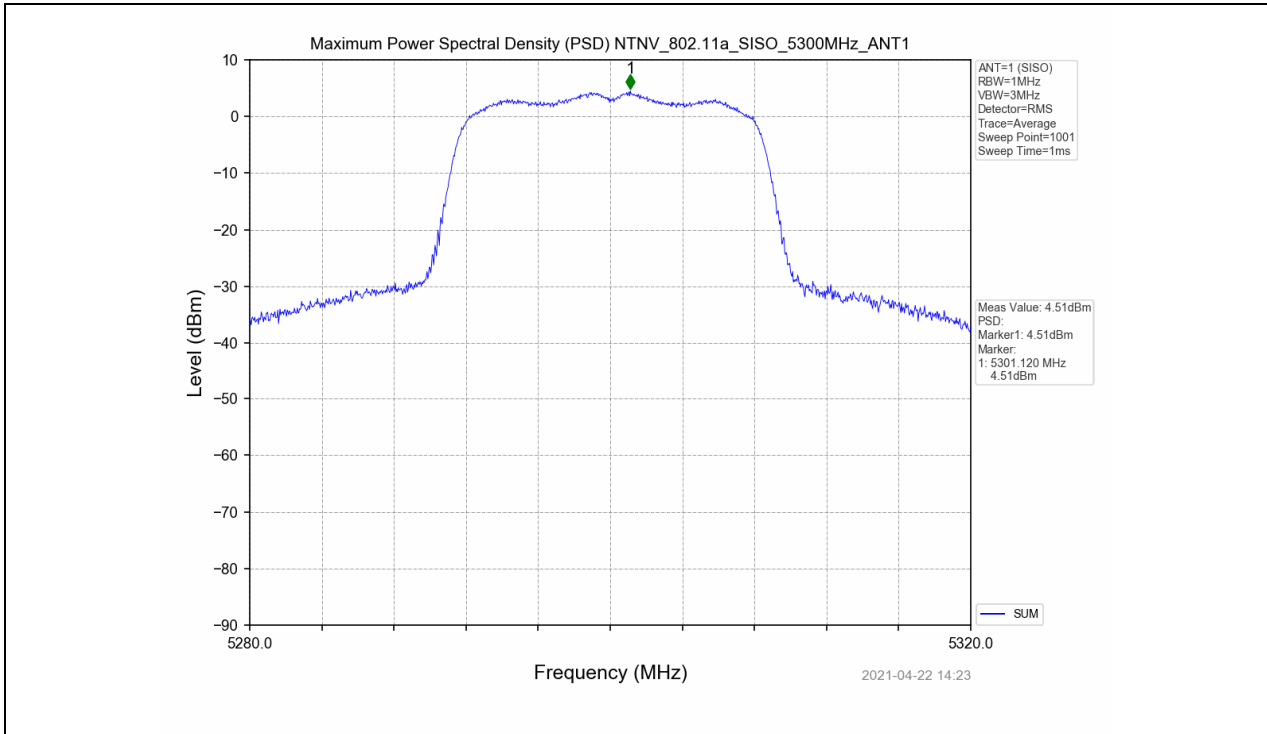
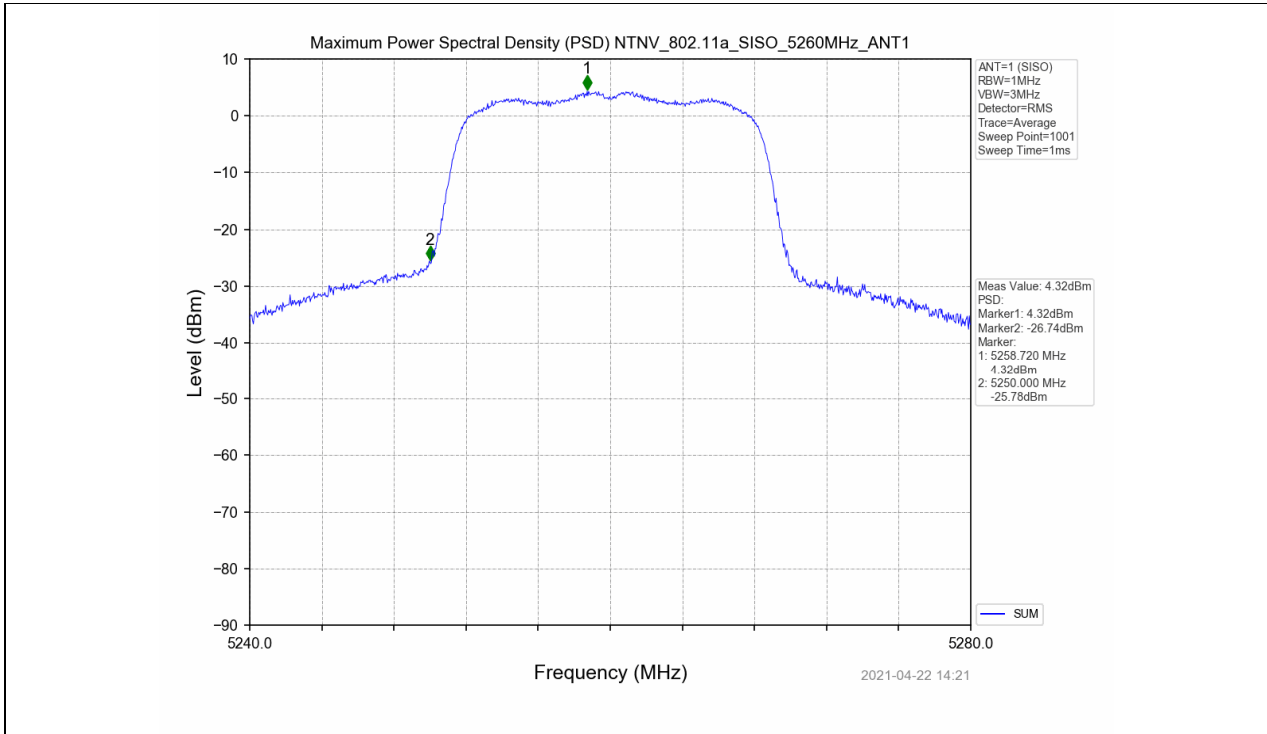




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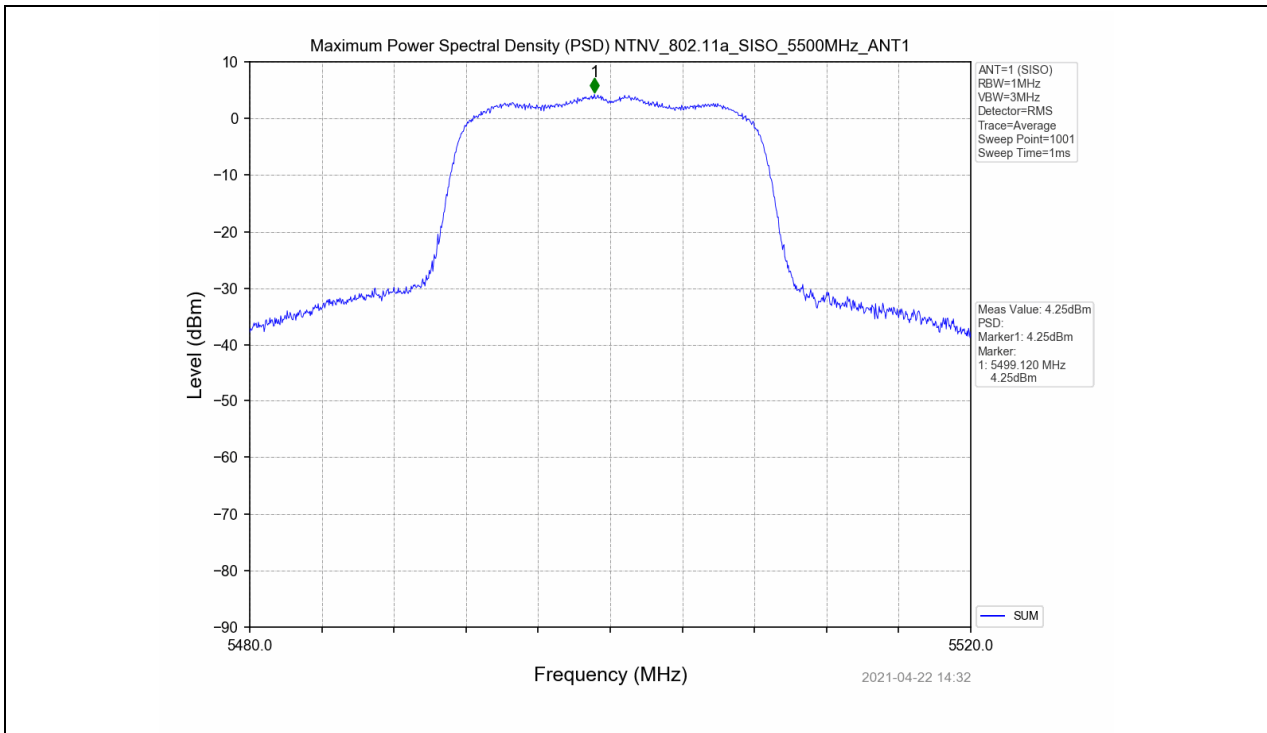
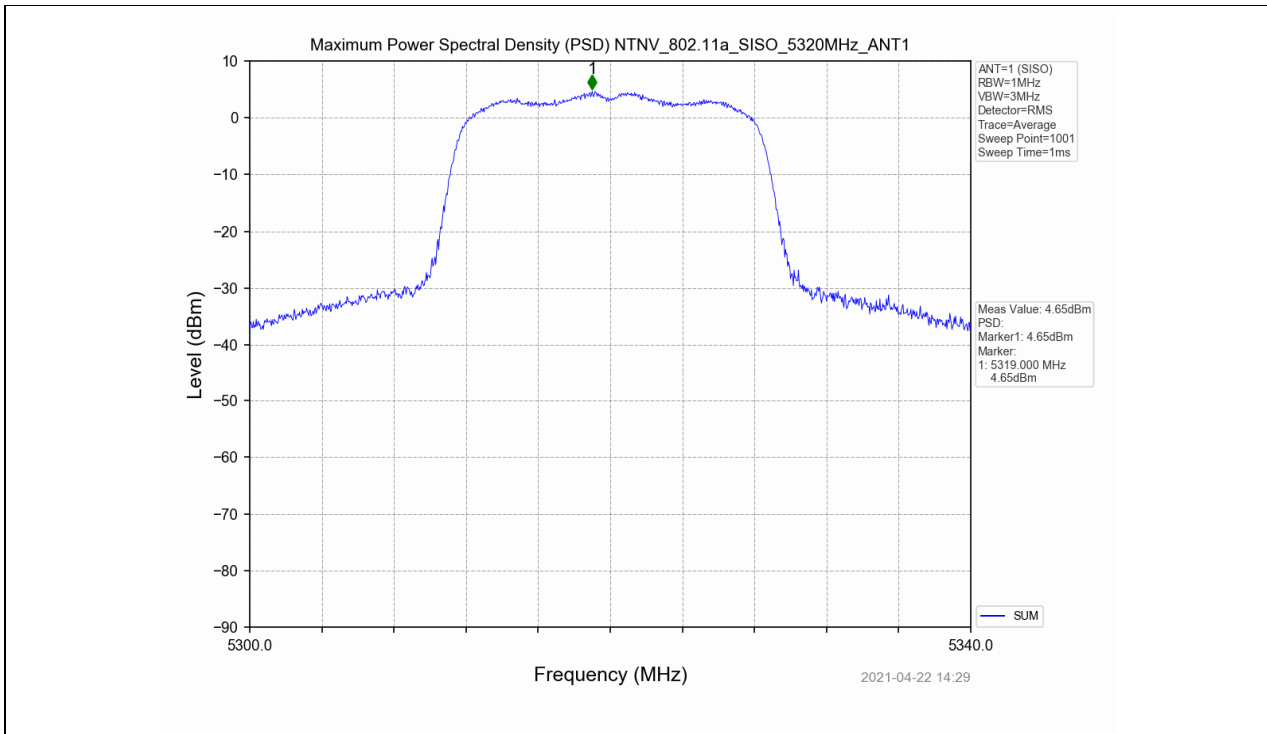
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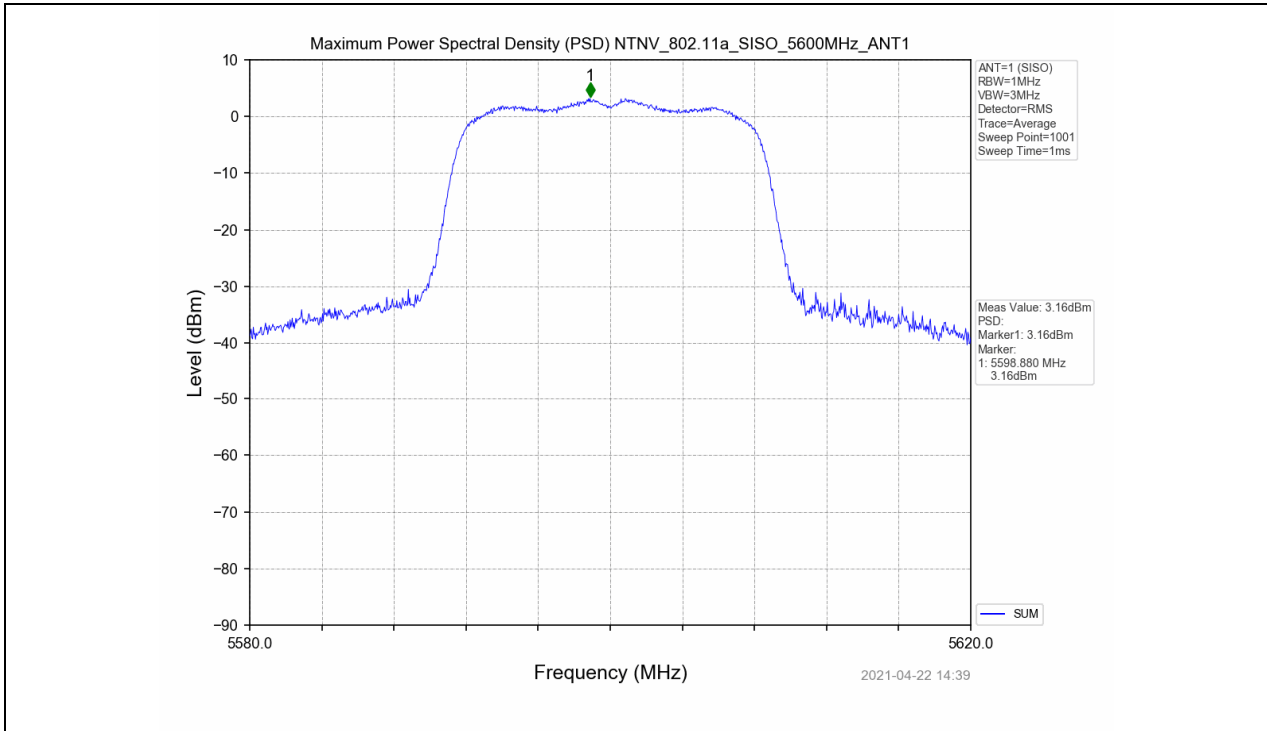
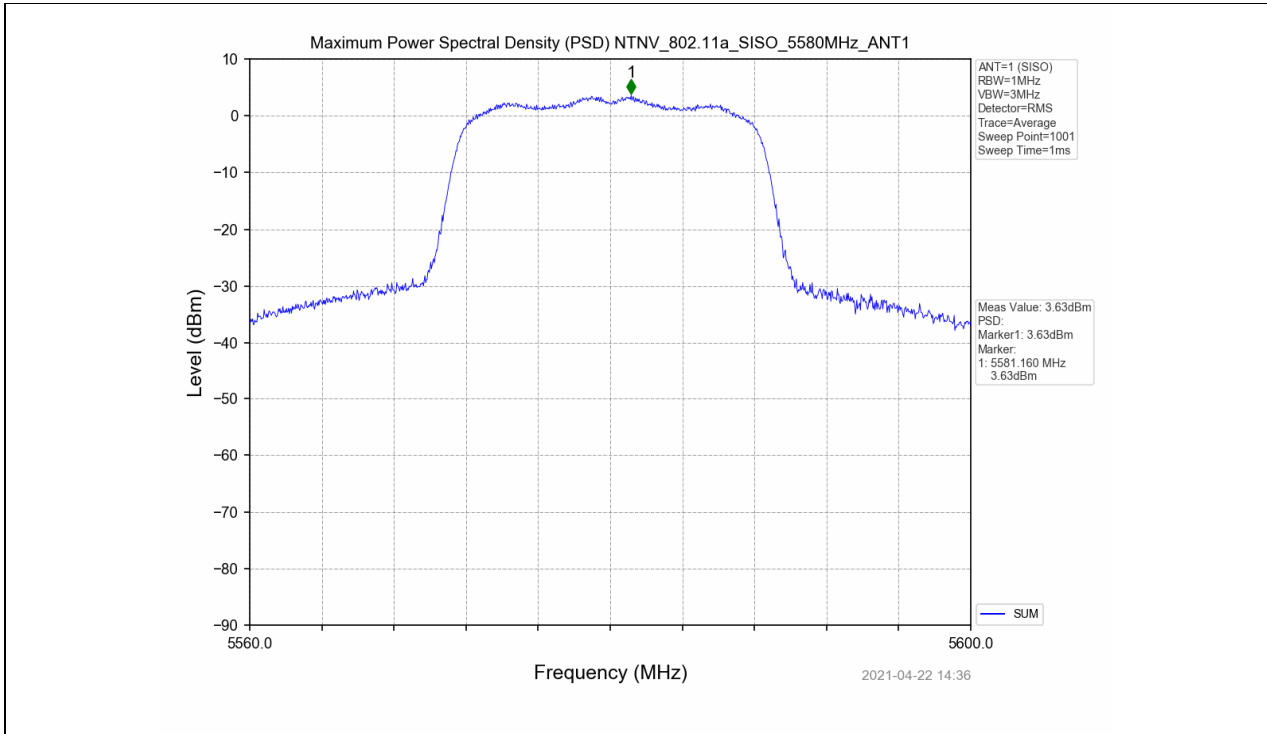
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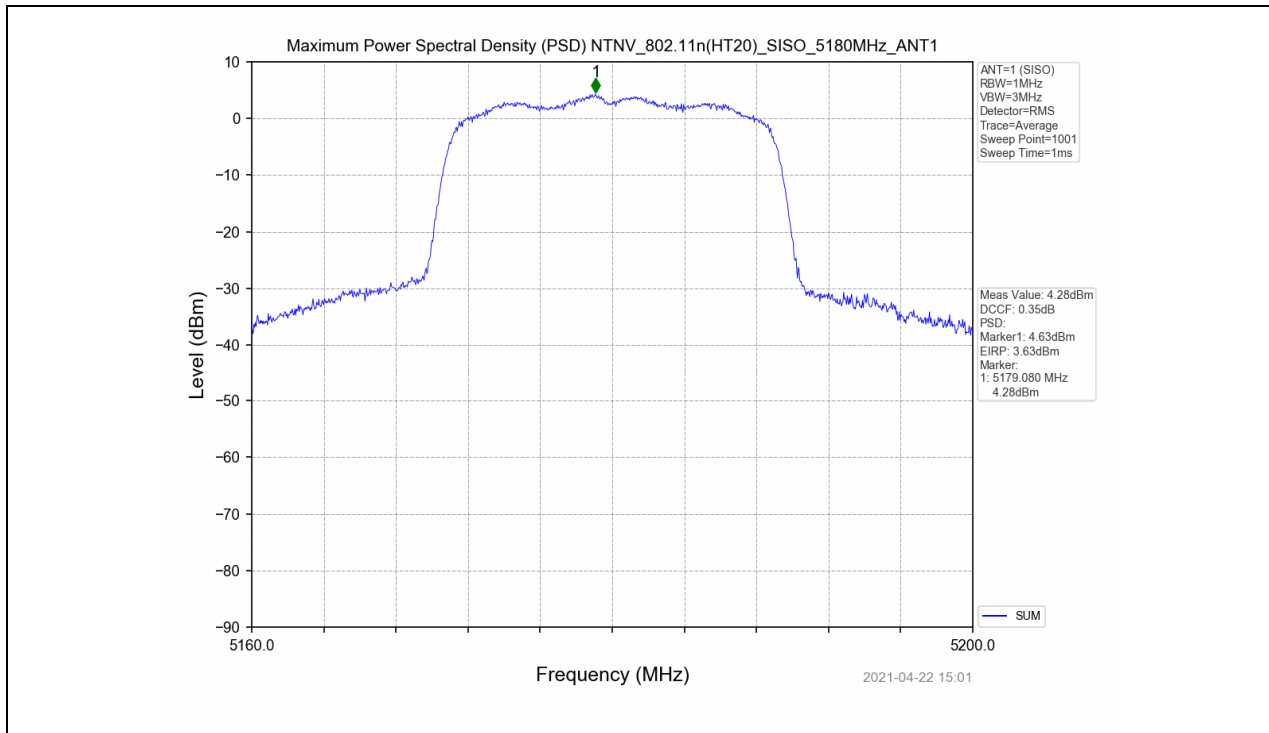
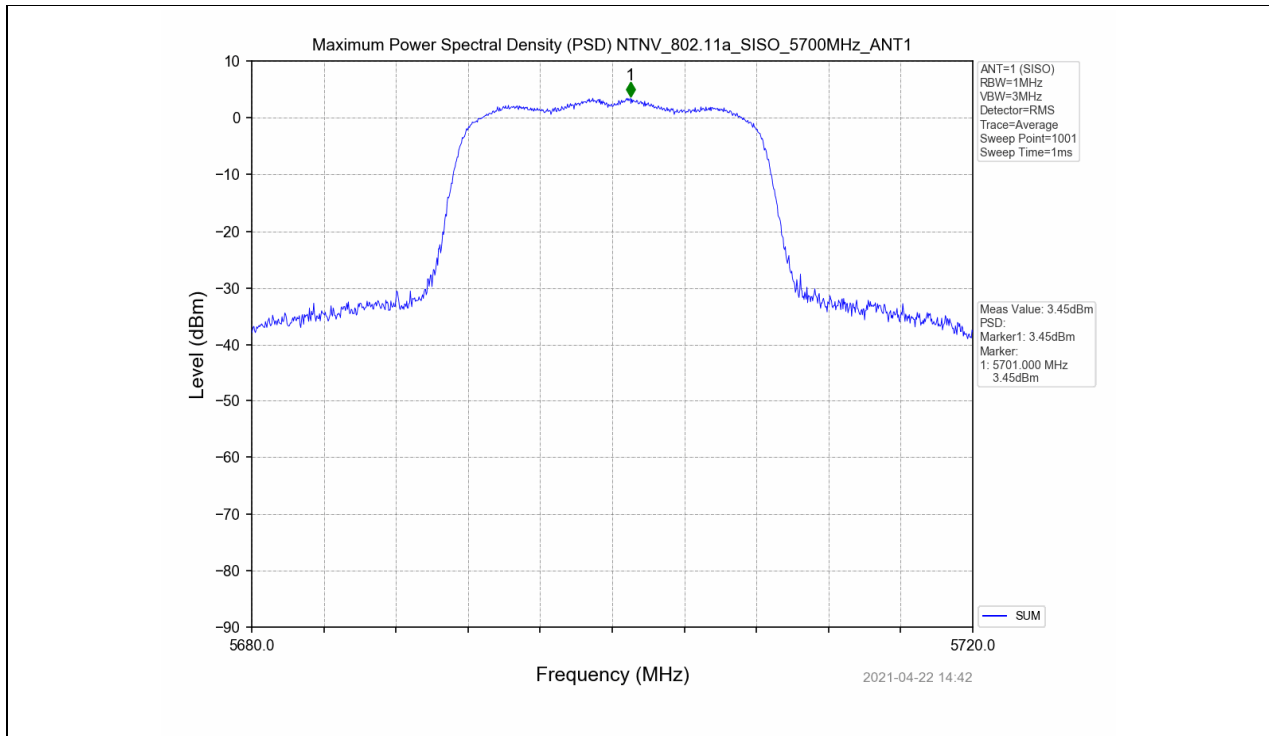
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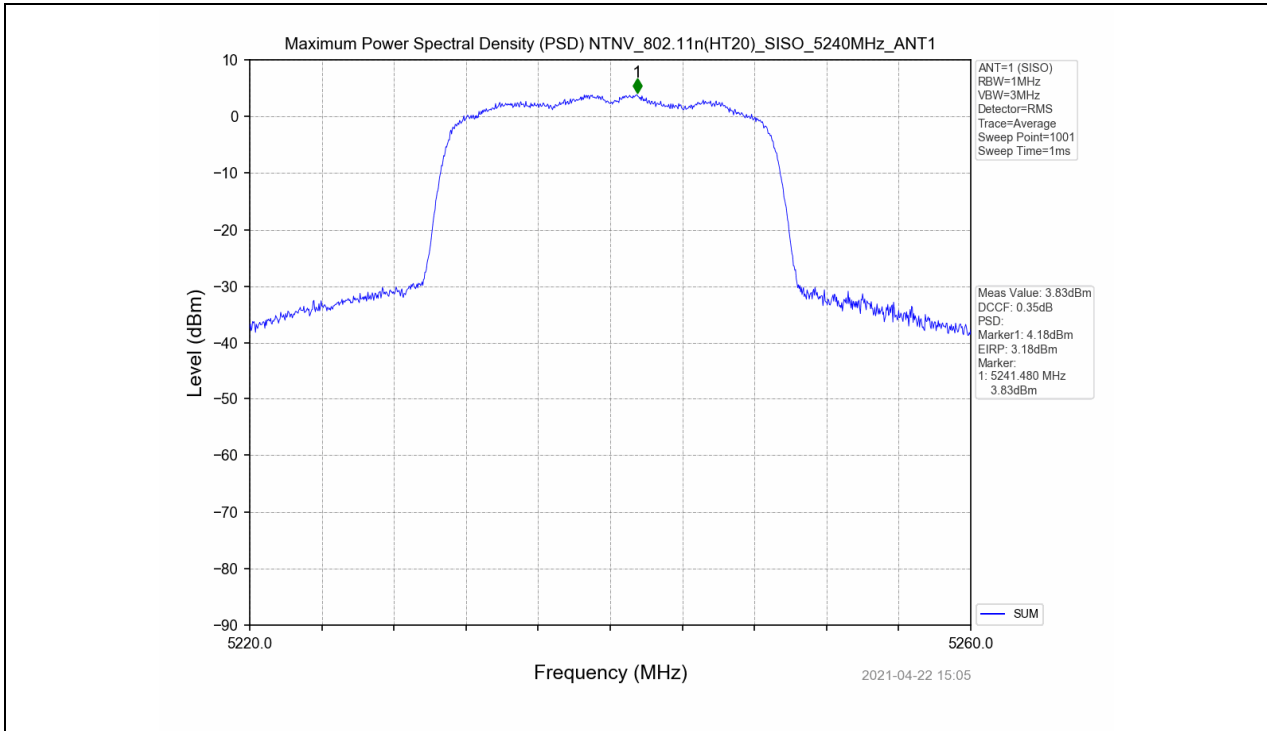
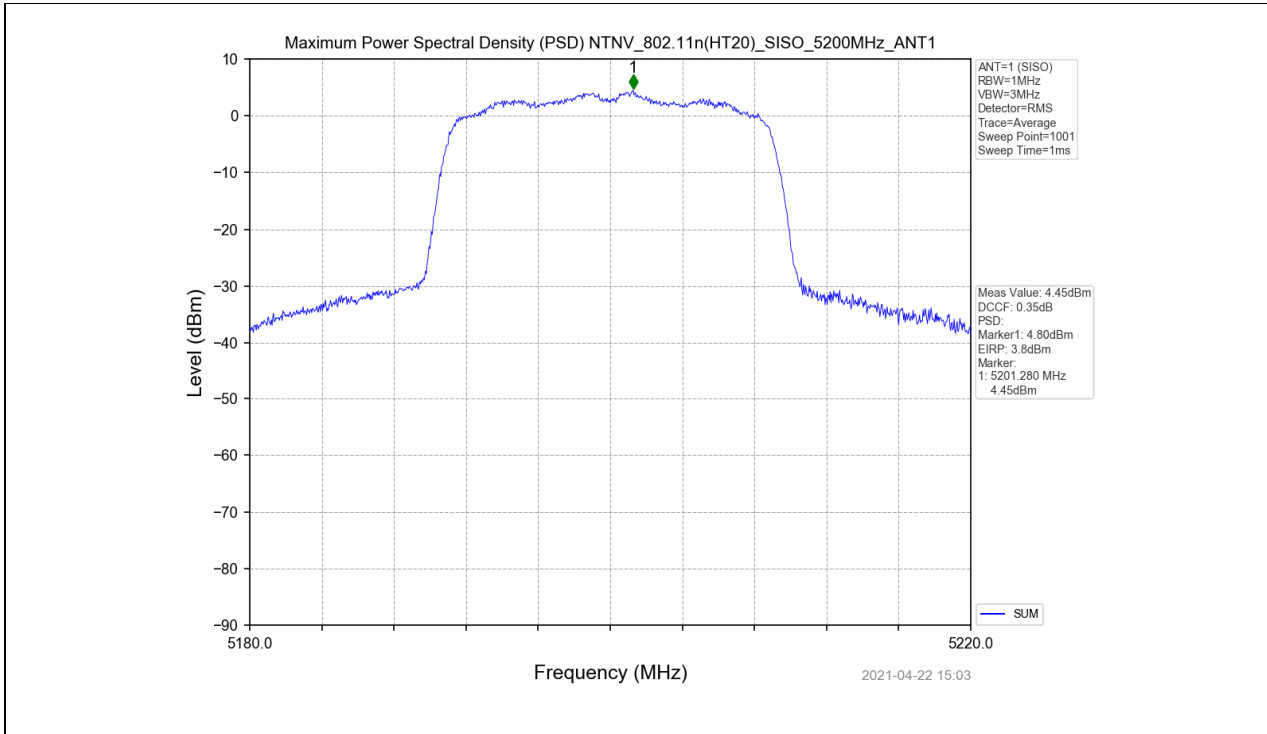
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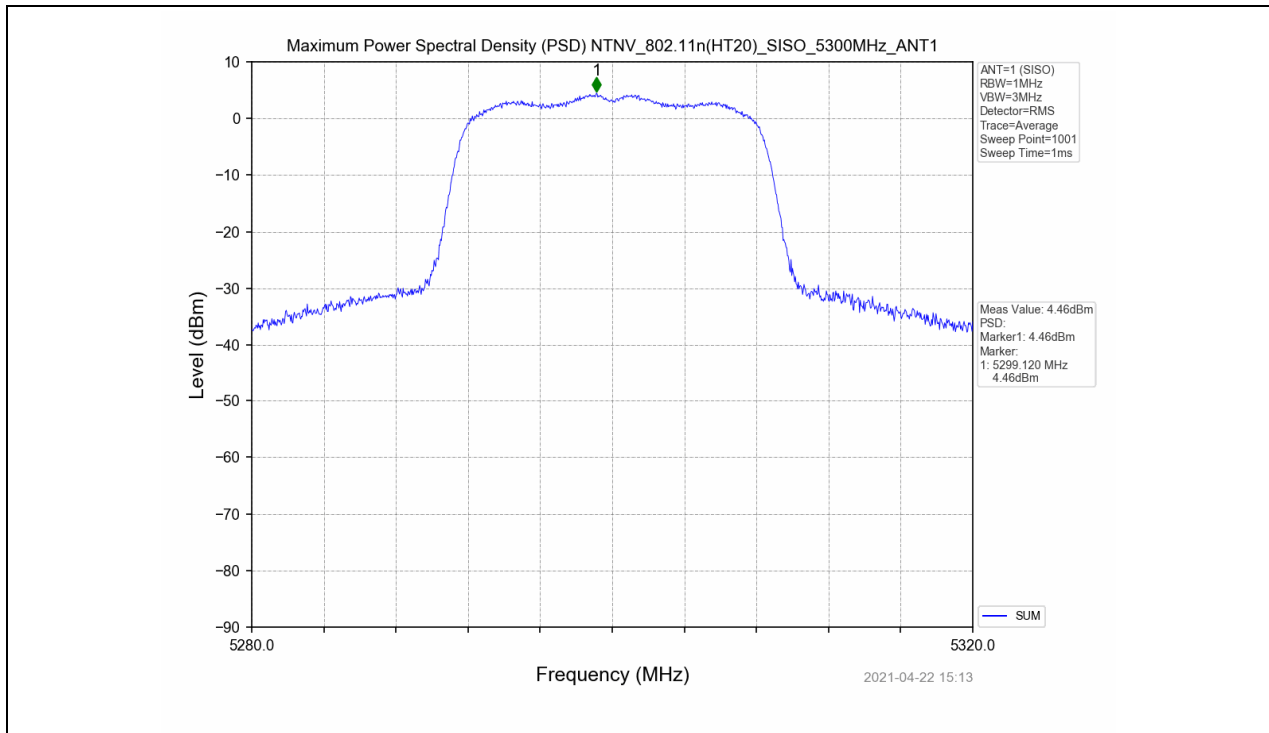
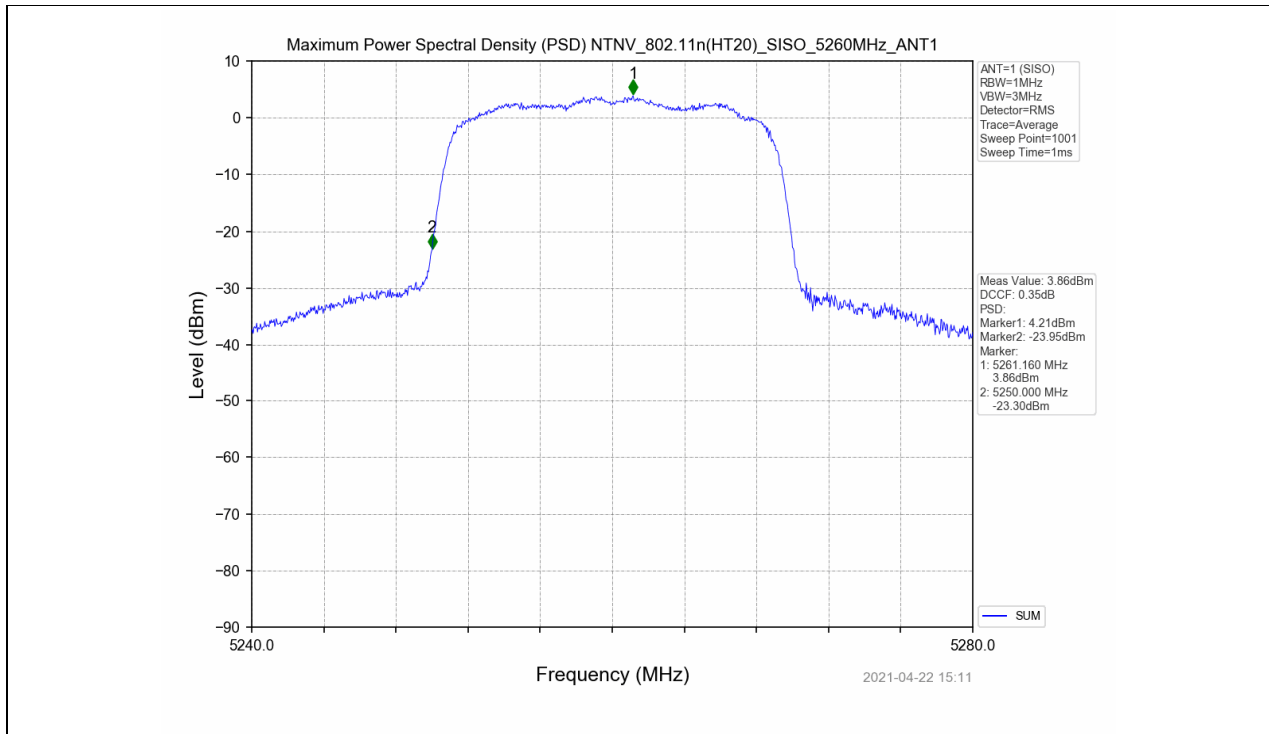
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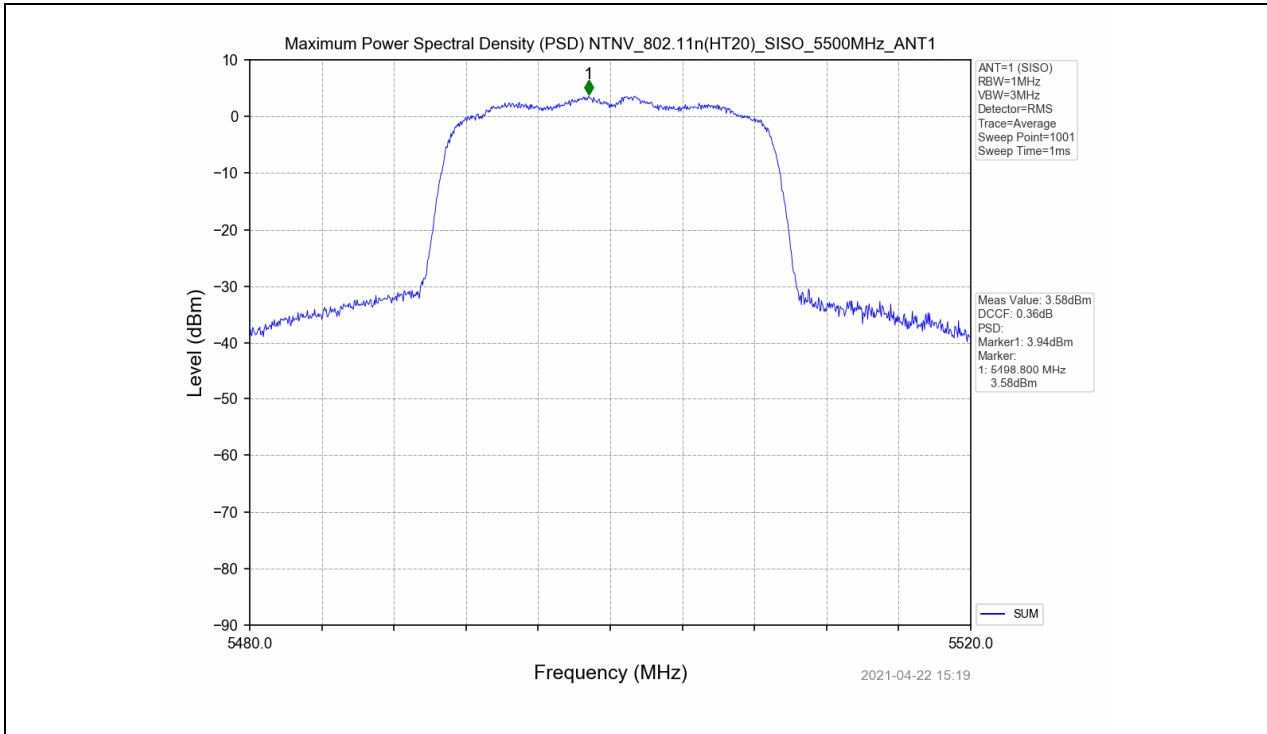
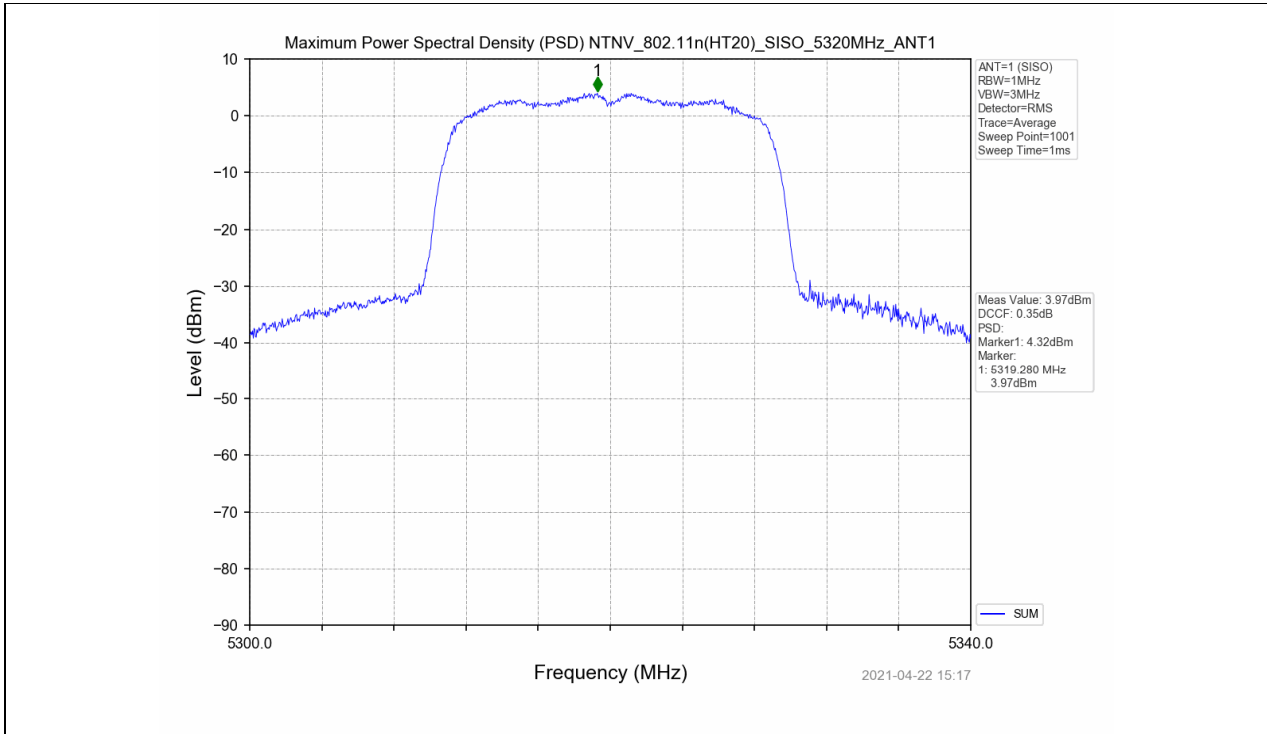
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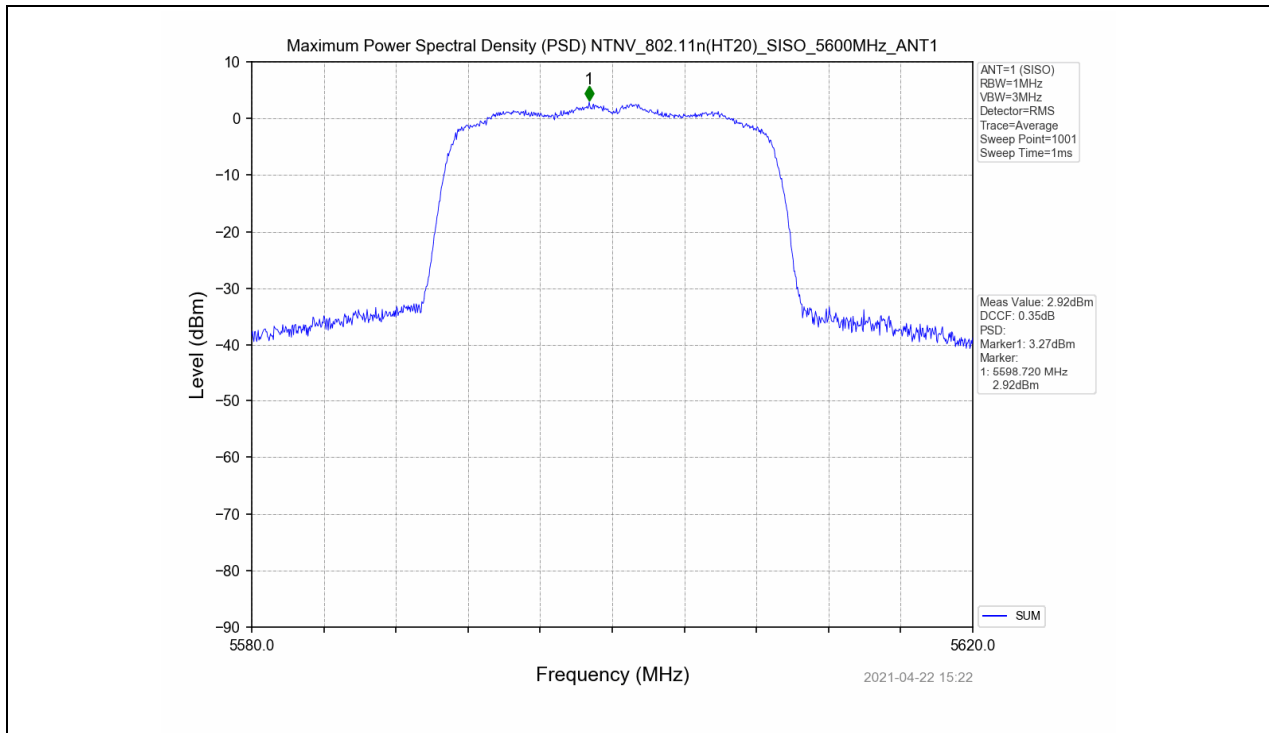
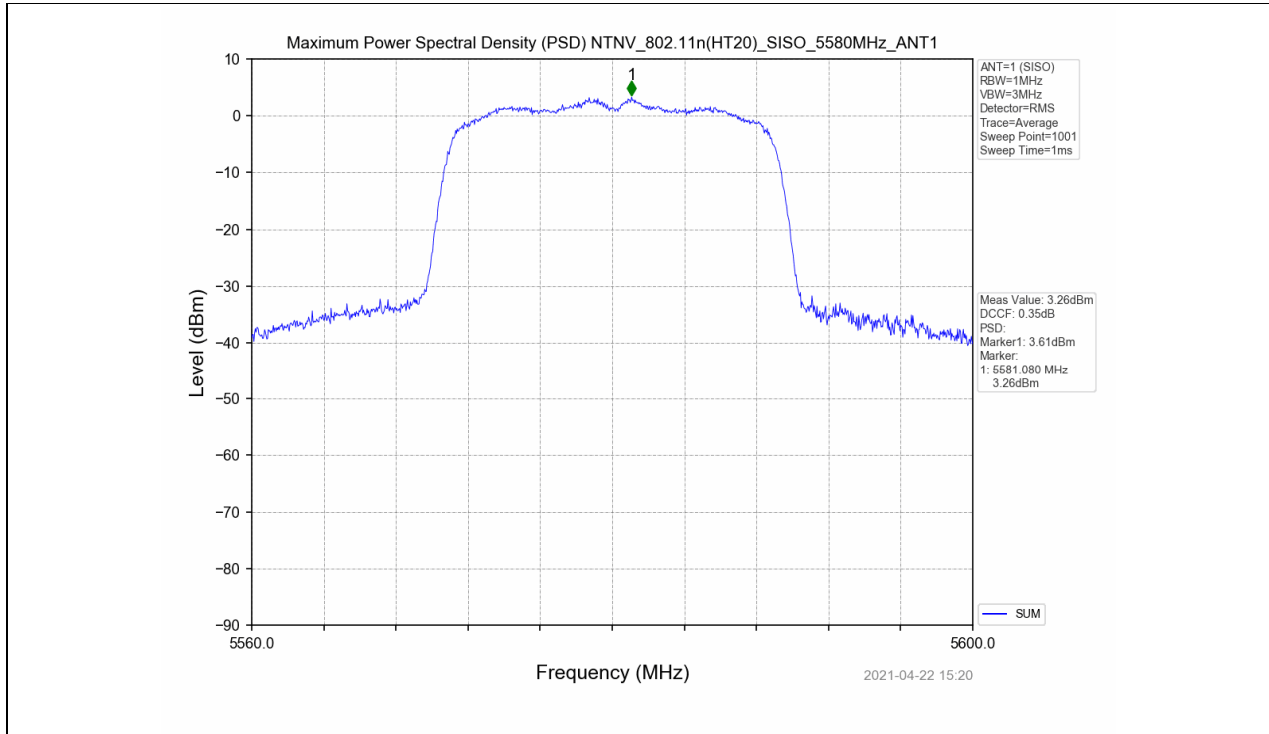
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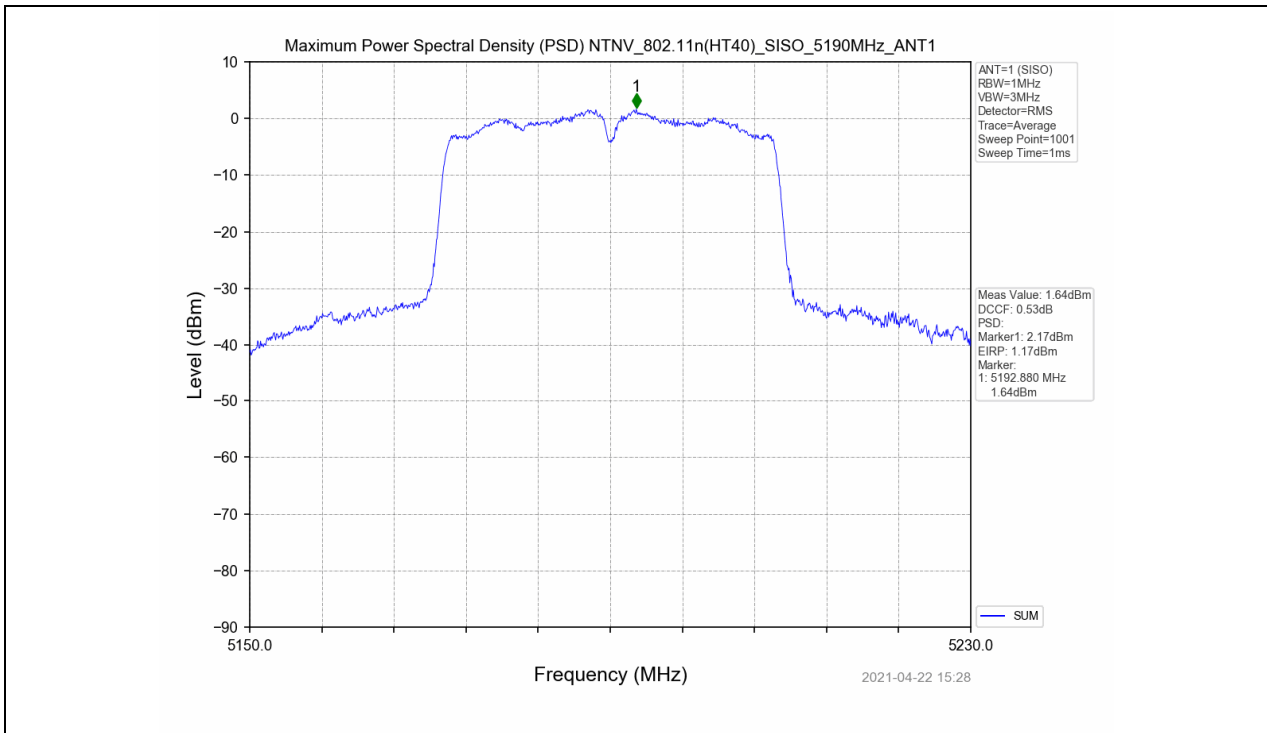
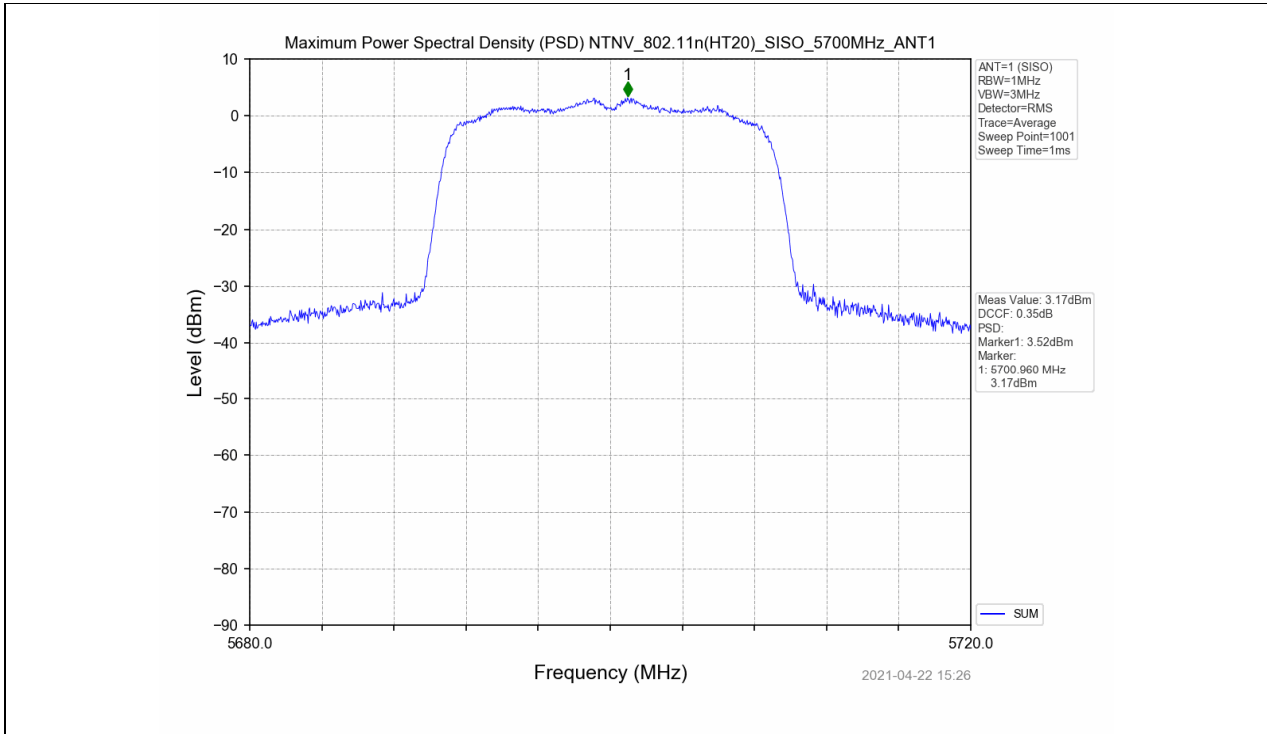
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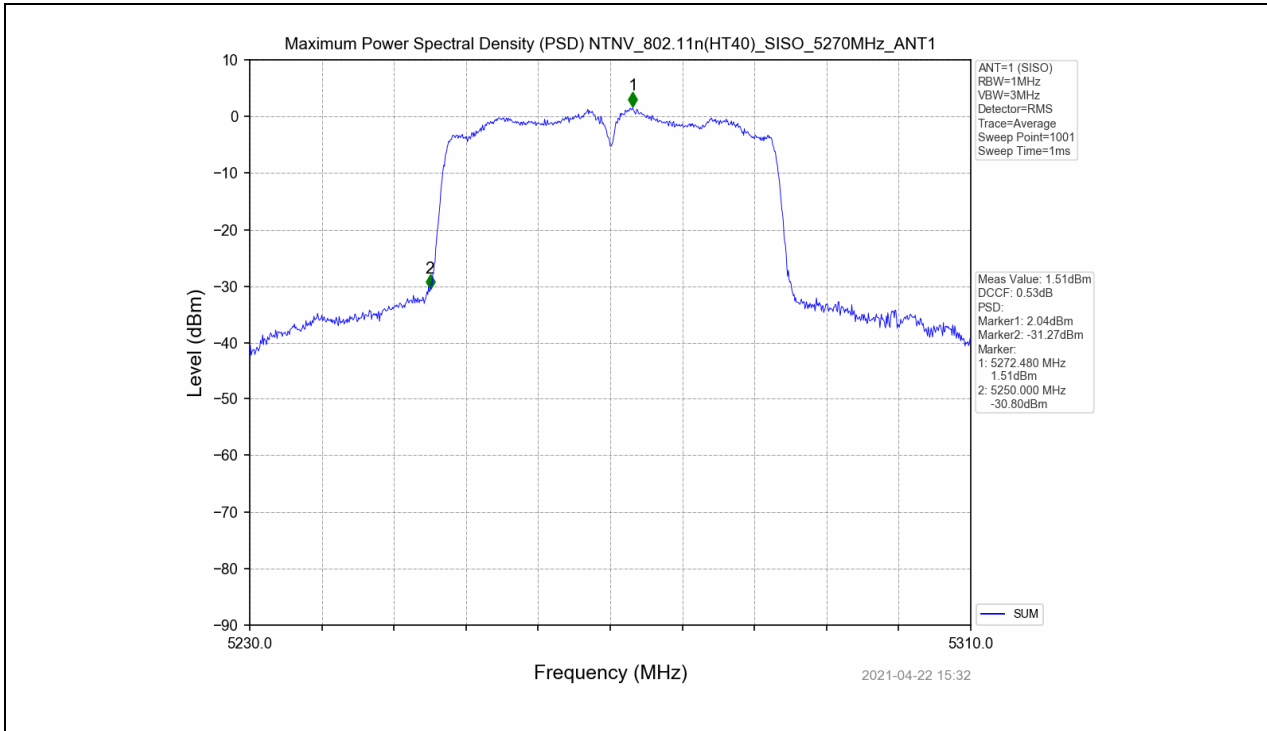
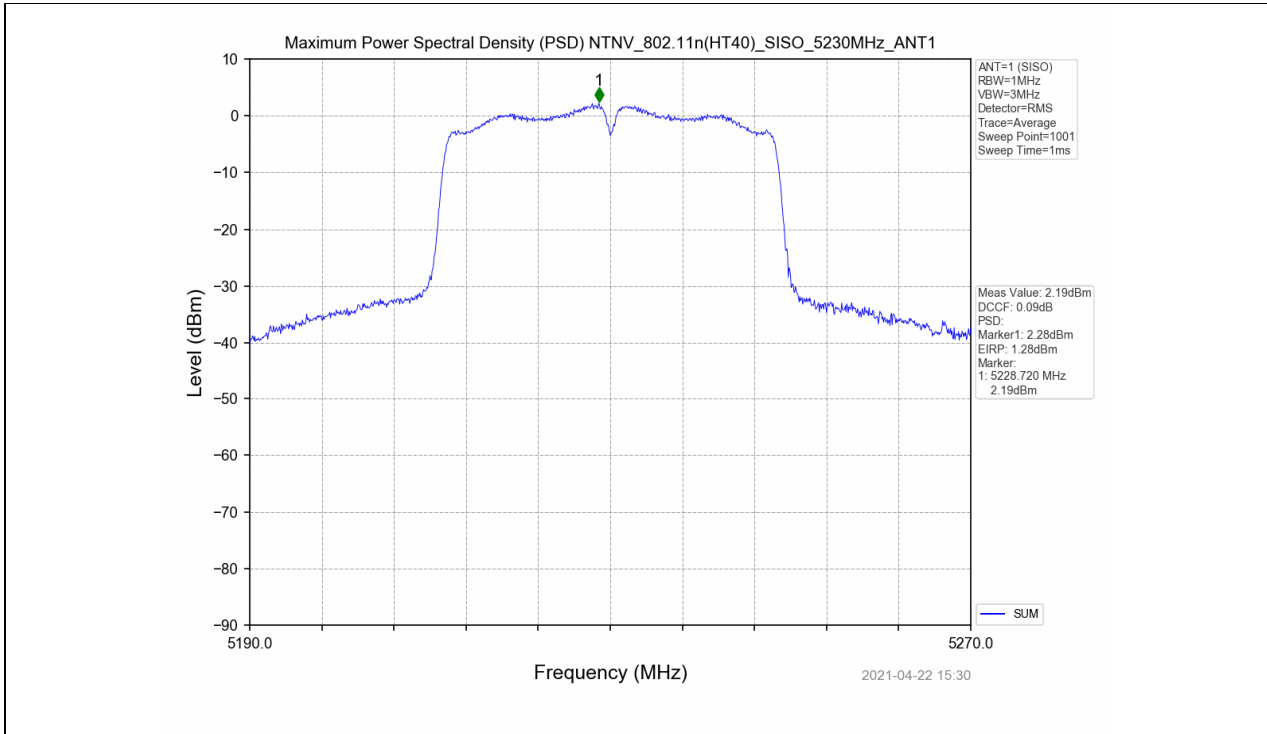
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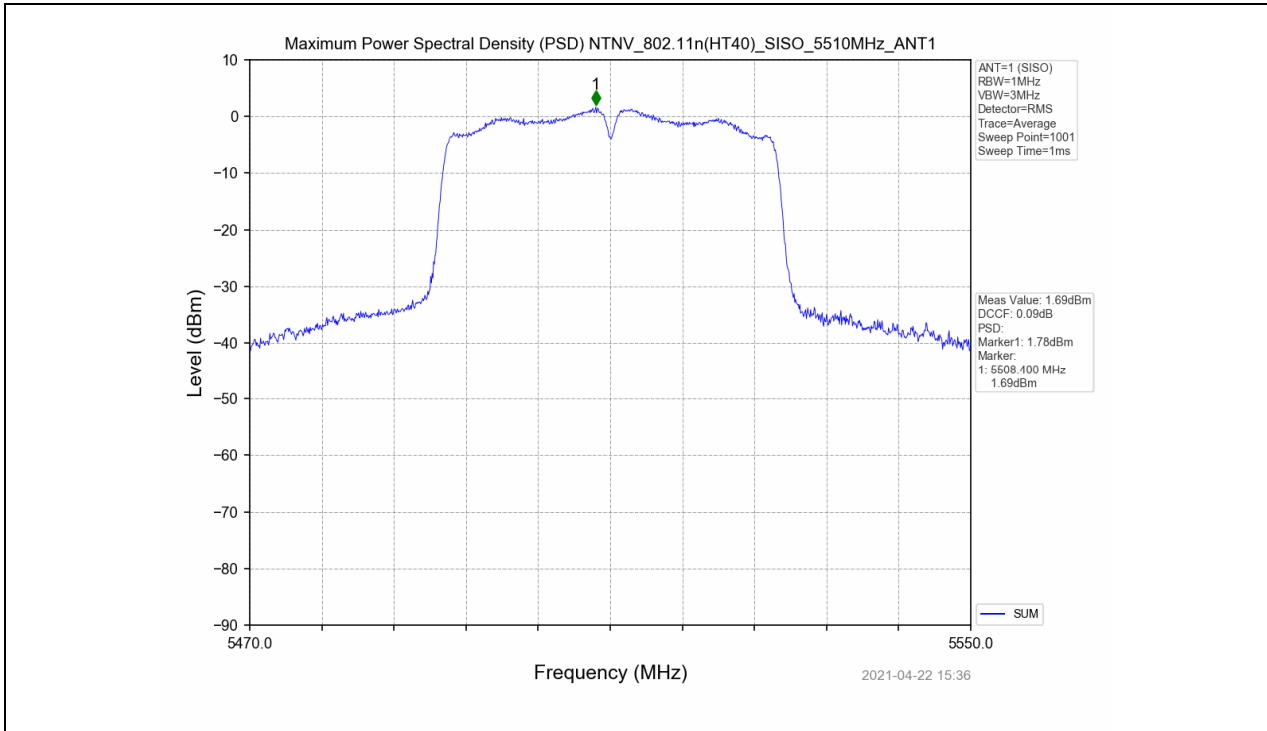
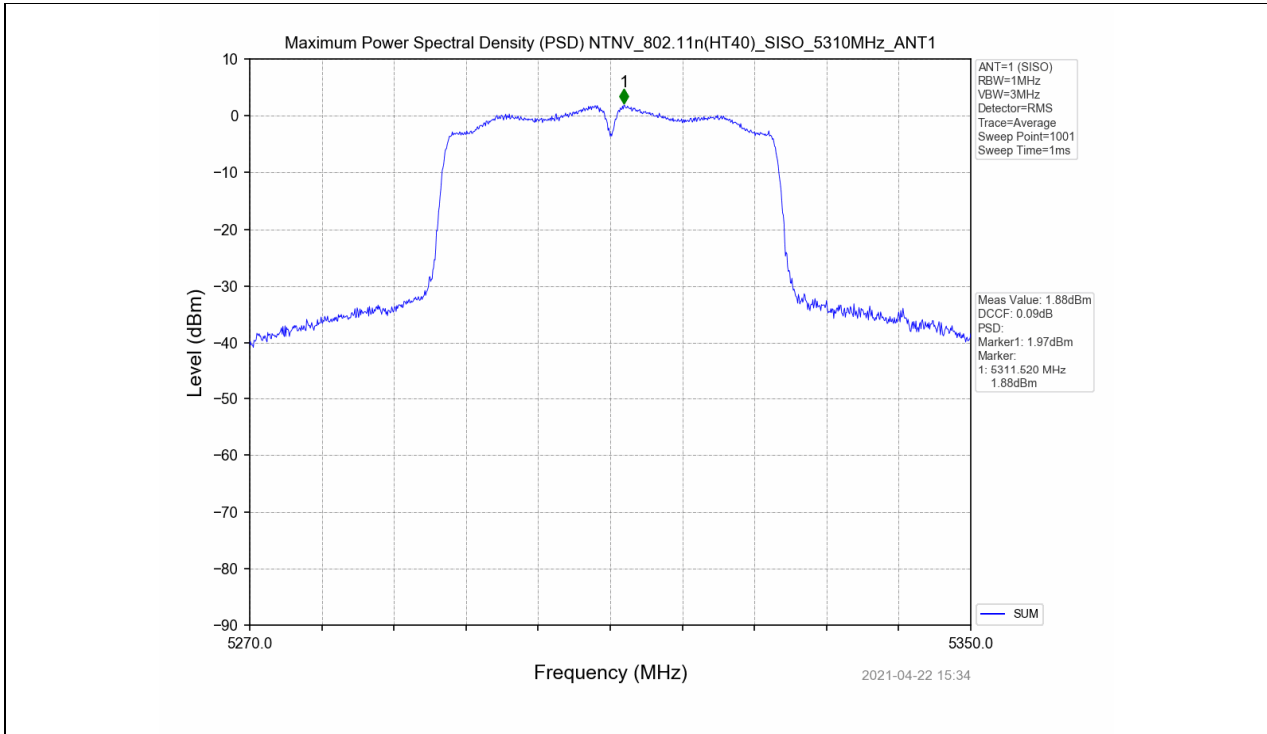
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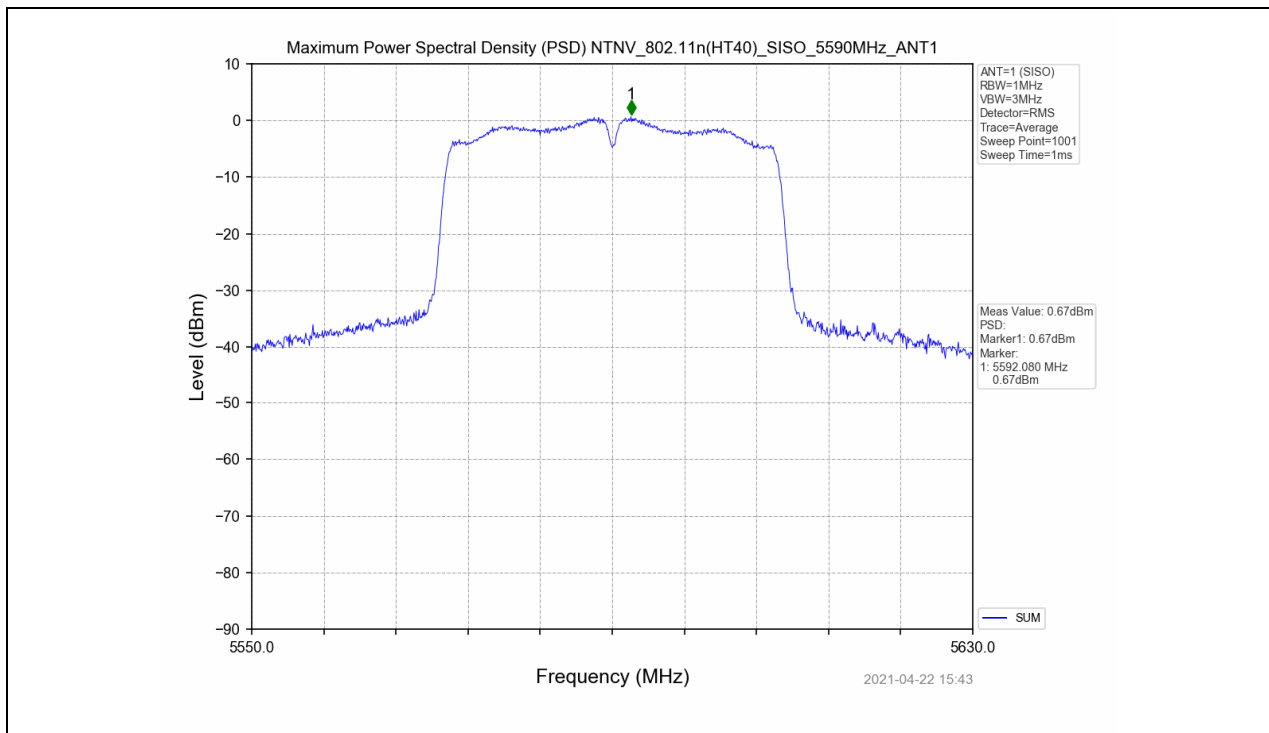
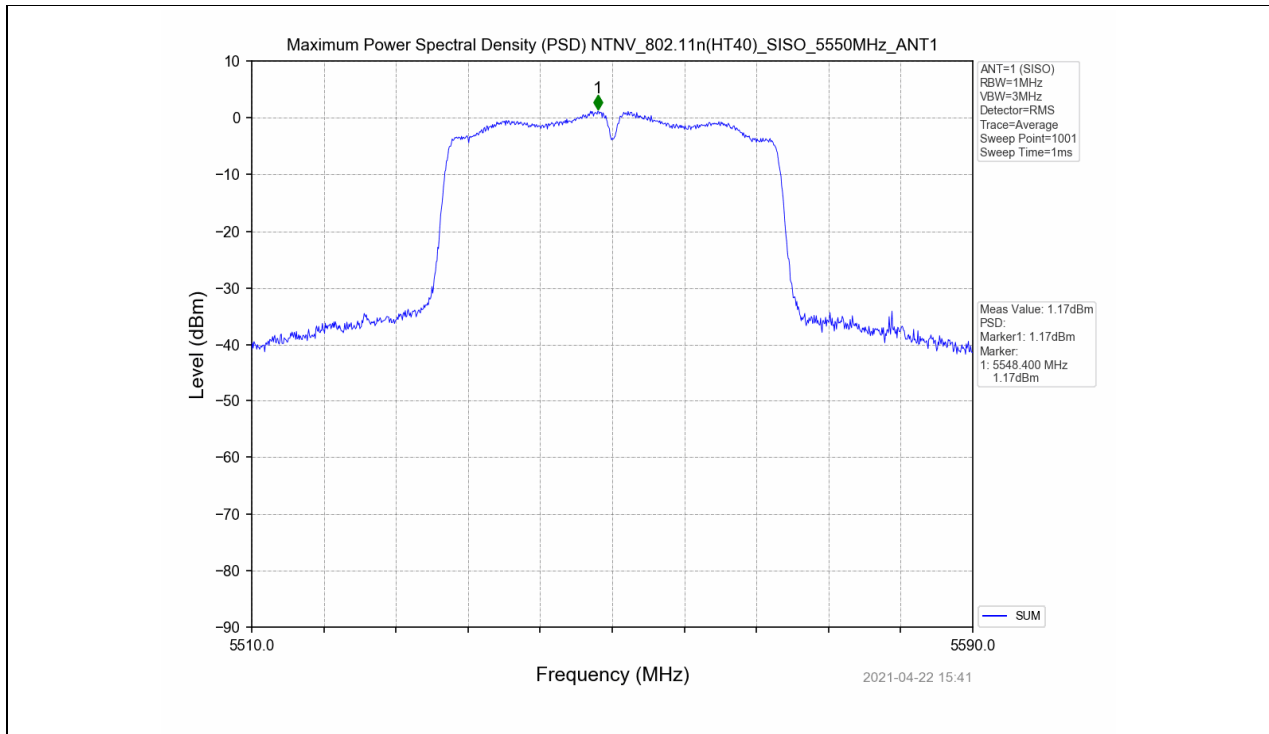
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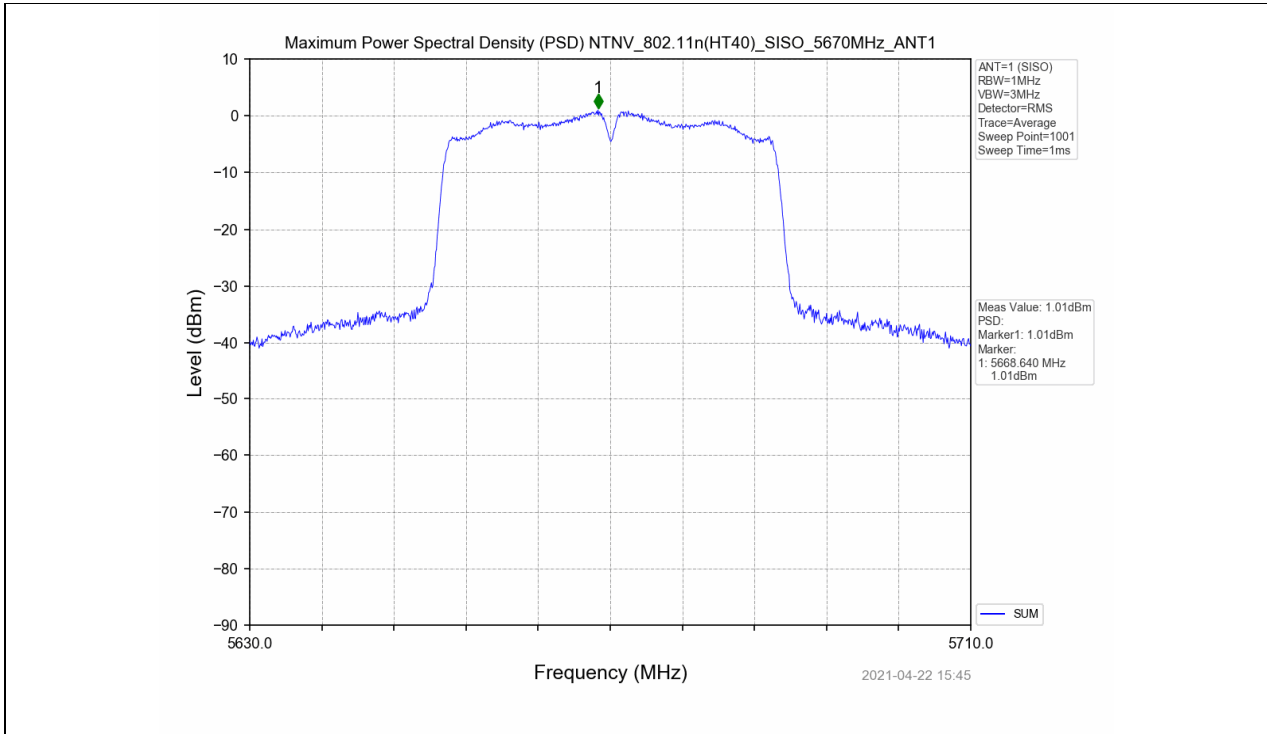
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**5. Frequency Stability**

**5.1 Test Result**

| Test Condition | Test Mode | Test Frequency [MHz] | Ant   | Result [ppm] | Limit [ppm] | Verdict |
|----------------|-----------|----------------------|-------|--------------|-------------|---------|
| NTNV           | 802.11a   | 5180                 | 1     | -7.72        | <=20        | PASS    |
|                |           | 5200                 | 1     | -3.85        | <=20        | PASS    |
|                |           | 5240                 | 1     | 0            | <=20        | PASS    |
|                |           | 5260                 | 1     | -3.8         | <=20        | PASS    |
|                |           | 5300                 | 1     | -3.77        | <=20        | PASS    |
|                |           | 5320                 | 1     | -7.52        | <=20        | PASS    |
|                |           | 5500                 | 1     | 0            | <=20        | PASS    |
|                |           | 5580                 | 1     | 0            | <=20        | PASS    |
|                | 5700      | 1                    | -3.51 | <=20         | PASS        |         |
|                | 802.11n   | 5190                 | 1     | 0            | <=20        | PASS    |
|                |           | 5230                 | 1     | 0            | <=20        | PASS    |
|                |           | 5270                 | 1     | 0            | <=20        | PASS    |
|                |           | 5310                 | 1     | 0            | <=20        | PASS    |
|                |           | 5510                 | 1     | 0            | <=20        | PASS    |
| 5550           |           | 1                    | 0     | <=20         | PASS        |         |
|                |           | 5670                 | 1     | 0            | <=20        | PASS    |





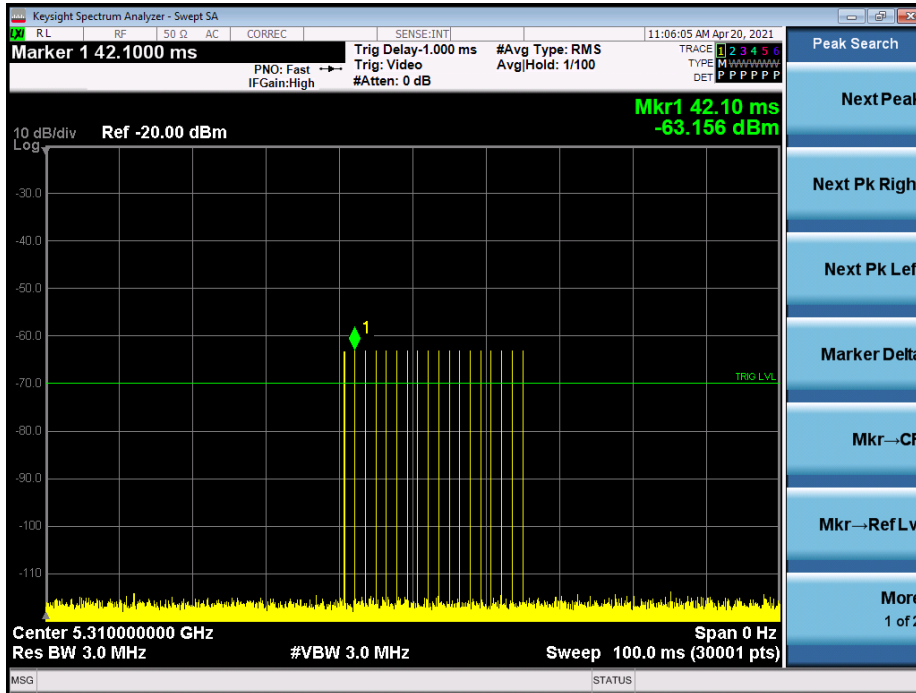
**6. DFS**

DFS: Non-occupancy period, DFS: Channel Move Time, DFS: Channel Closing Transmission Time  
 Test plots as follows:

**Remark:** Channel loading of Timing plots is greater than 17%.

**Radar Waveform Calibration**

Radar Type 1 (40MHz / 5310MHz)



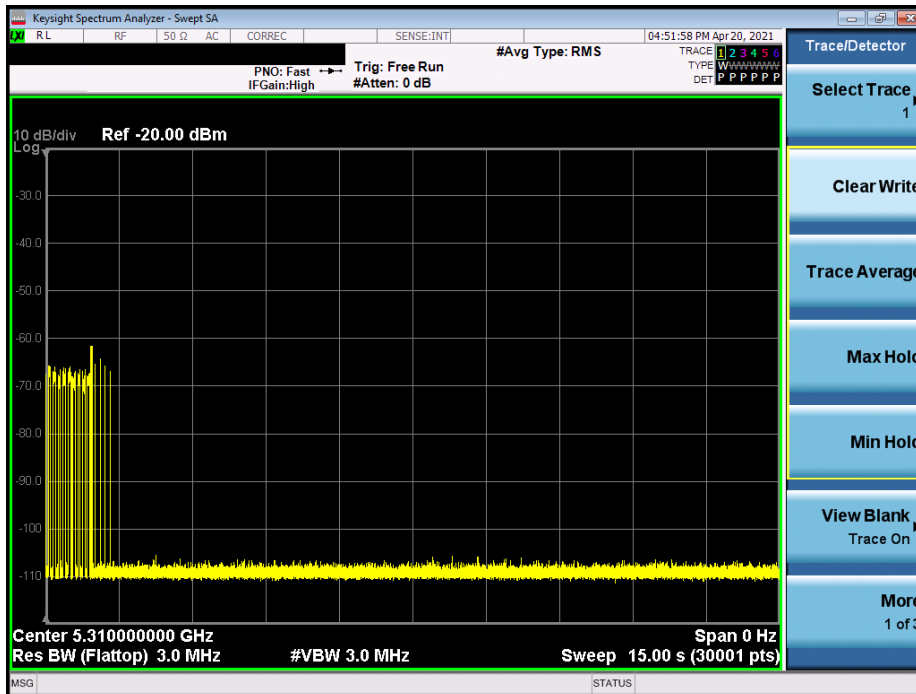
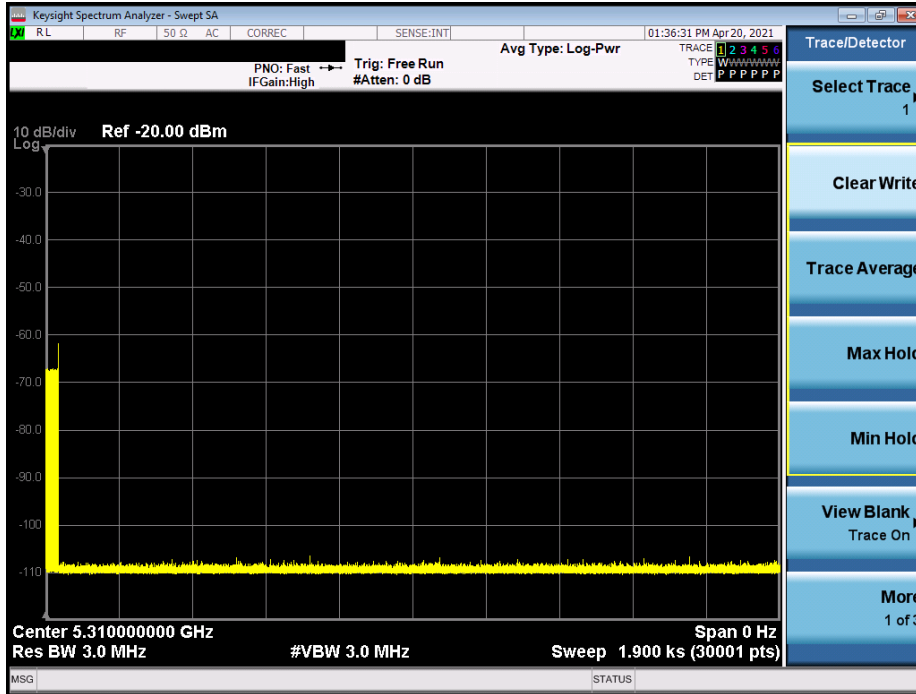
**Test Data:**

| BW/Channel      | Test Item                         | Test Result         | Limit   | Results |
|-----------------|-----------------------------------|---------------------|---------|---------|
| 40MHz / 5310MHz | Non-occupancy period              | Refer to test point | >30 min | pass    |
|                 | Channel Move Time                 | 0.37s               | <10s    | Pass    |
|                 | Channel Closing Transmission Time | 2.00ms              | <60ms   | Pass    |



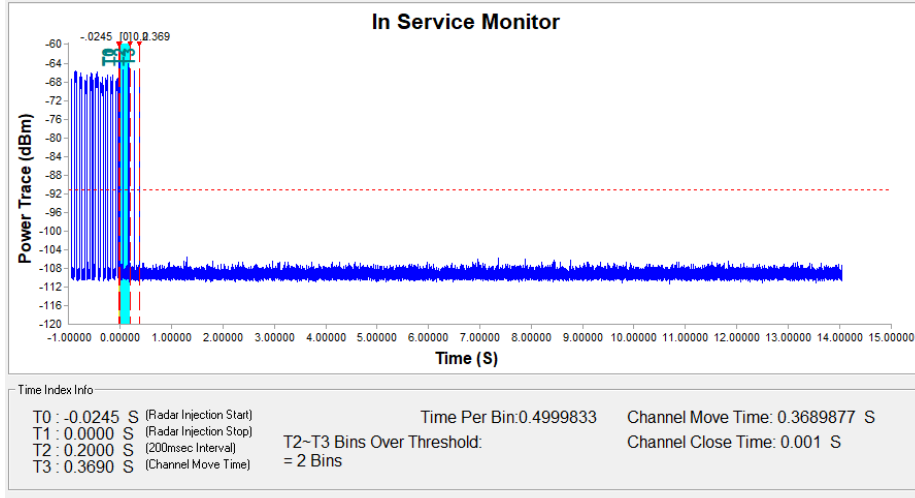
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40MHz / 5310MHz



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- End of the Report -



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