

## 1. Duty Cycle

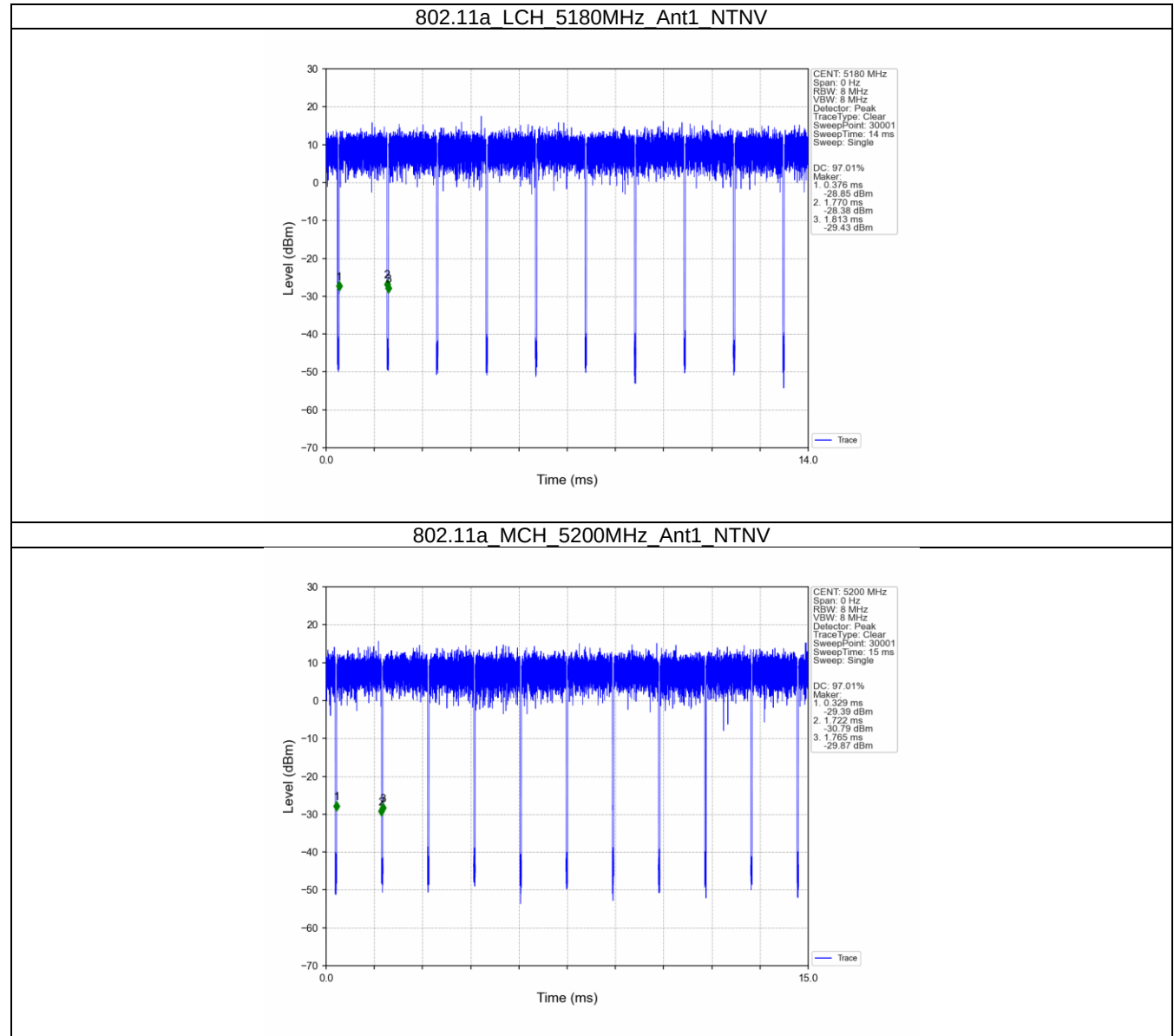
### 1.1 Test Result

#### 1.1.1 Ant1

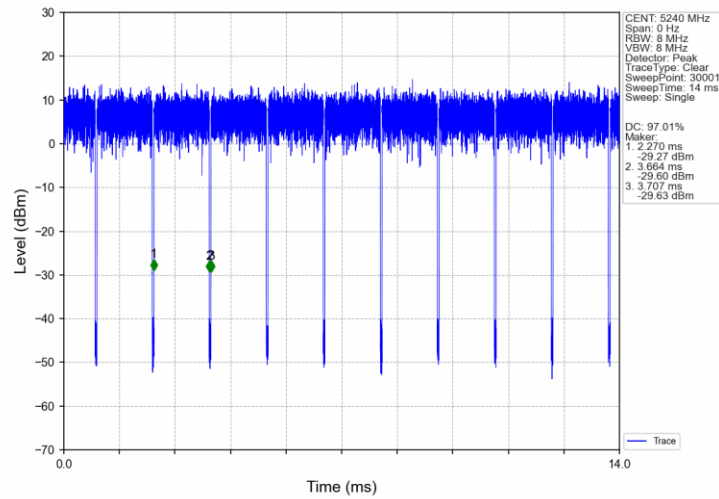
| Ant1             |         |                 |           |             |                |                                   |                       |
|------------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode             | Tx Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11a          | SISO    | 5180            | 1.394     | 1.437       | 97.01          | 0.13                              | 0.00                  |
|                  |         | 5200            | 1.394     | 1.437       | 97.01          | 0.13                              | 0.03                  |
|                  |         | 5240            | 1.394     | 1.437       | 97.01          | 0.13                              | 0.03                  |
|                  |         | 5745            | 1.394     | 1.436       | 97.08          | 0.13                              | 0.00                  |
|                  |         | 5785            | 1.394     | 1.436       | 97.08          | 0.13                              | 0.03                  |
|                  |         | 5825            | 1.394     | 1.437       | 97.01          | 0.13                              | 0.03                  |
| 802.11n (HT20)   | SISO    | 5180            | 1.290     | 1.332       | 96.85          | 0.14                              | 0.04                  |
|                  |         | 5200            | 1.290     | 1.333       | 96.77          | 0.14                              | 0.00                  |
|                  |         | 5240            | 1.290     | 1.332       | 96.85          | 0.14                              | 0.04                  |
|                  |         | 5745            | 1.290     | 1.332       | 96.85          | 0.14                              | 0.04                  |
|                  |         | 5785            | 1.290     | 1.333       | 96.77          | 0.14                              | 0.00                  |
|                  |         | 5825            | 1.290     | 1.332       | 96.85          | 0.14                              | 0.04                  |
| 802.11n (HT40)   | SISO    | 5190            | 0.638     | 0.680       | 93.82          | 0.28                              | 0.03                  |
|                  |         | 5230            | 0.638     | 0.680       | 93.82          | 0.28                              | 0.03                  |
|                  |         | 5755            | 0.637     | 0.680       | 93.68          | 0.28                              | 0.07                  |
|                  |         | 5795            | 0.637     | 0.680       | 93.68          | 0.28                              | 0.07                  |
| 802.11ac (VHT20) | SISO    | 5180            | 1.315     | 1.357       | 96.90          | 0.14                              | 0.03                  |
|                  |         | 5200            | 1.315     | 1.357       | 96.90          | 0.14                              | 0.03                  |
|                  |         | 5240            | 1.314     | 1.356       | 96.90          | 0.14                              | 0.00                  |
|                  |         | 5745            | 1.314     | 1.356       | 96.90          | 0.14                              | 0.03                  |
|                  |         | 5785            | 1.314     | 1.357       | 96.83          | 0.14                              | 0.03                  |
|                  |         | 5825            | 1.314     | 1.357       | 96.83          | 0.14                              | 0.03                  |
| 802.11ac (VHT40) | SISO    | 5190            | 0.653     | 0.696       | 93.82          | 0.28                              | 0.03                  |
|                  |         | 5230            | 0.654     | 0.696       | 93.97          | 0.27                              | 0.00                  |
|                  |         | 5755            | 0.653     | 0.696       | 93.82          | 0.28                              | 0.03                  |
|                  |         | 5795            | 0.653     | 0.696       | 93.82          | 0.28                              | 0.03                  |
| 802.11ac (VHT80) | SISO    | 5210            | 0.326     | 0.368       | 88.59          | 0.53                              | 0.04                  |
|                  |         | 5775            | 0.324     | 0.369       | 87.80          | 0.56                              | 0.04                  |

## 1.2 Test Graph

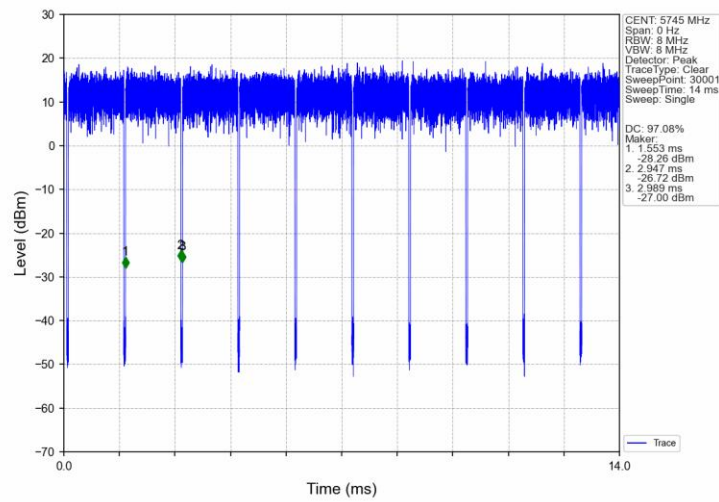
### 1.2.1 Ant1



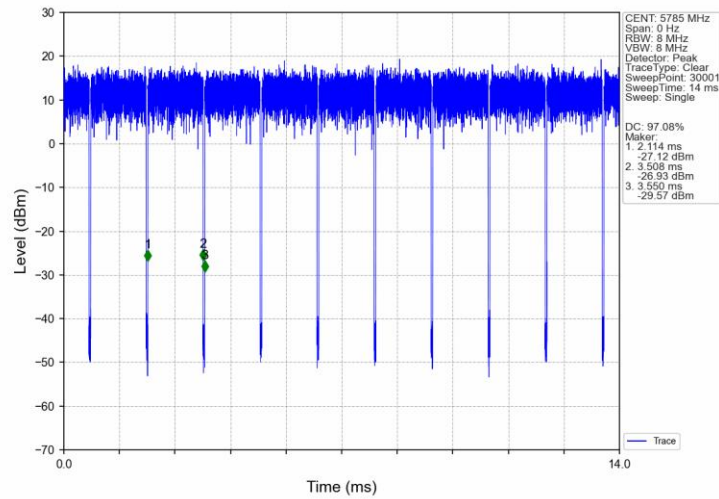
## 802.11a\_HCH\_5240MHz\_Ant1\_NTNV



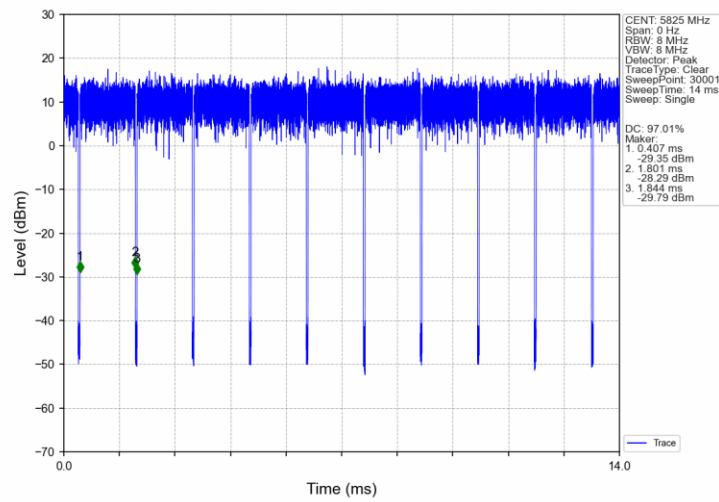
## 802.11a\_LCH\_5745MHz\_Ant1\_NTNV



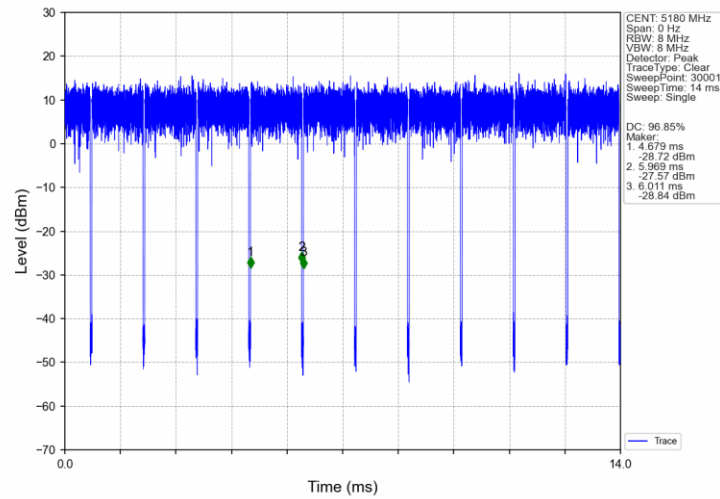
## 802.11a\_MCH\_5785MHz\_Ant1\_NTNV



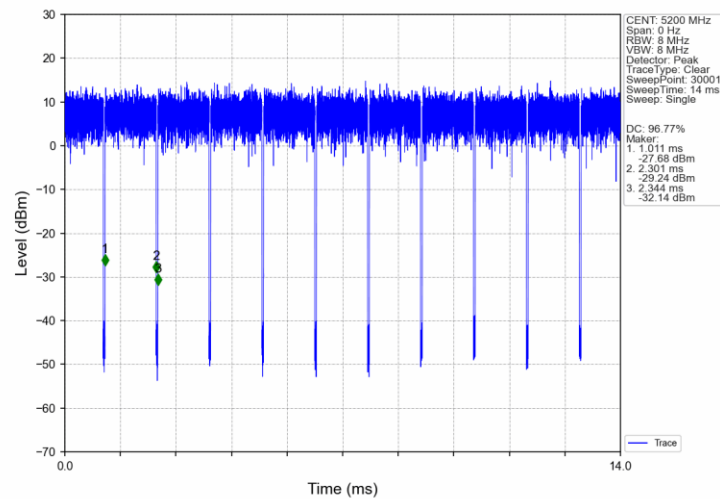
## 802.11a\_HCH\_5825MHz\_Ant1\_NTNV



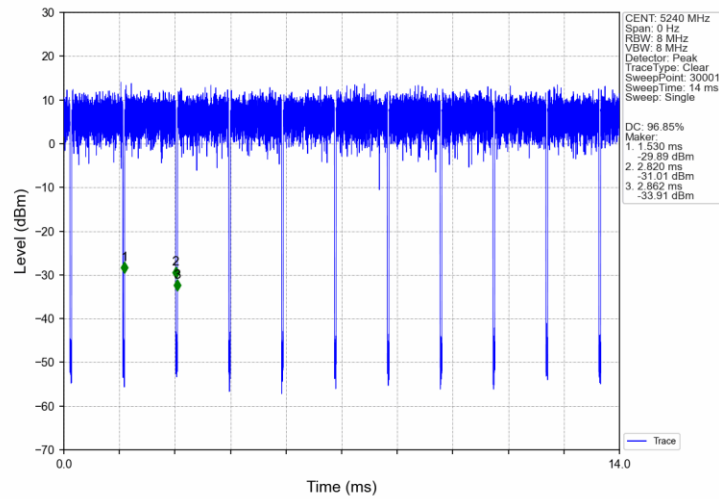
## 802.11n(HT20) LCH 5180MHz Ant1 NTN



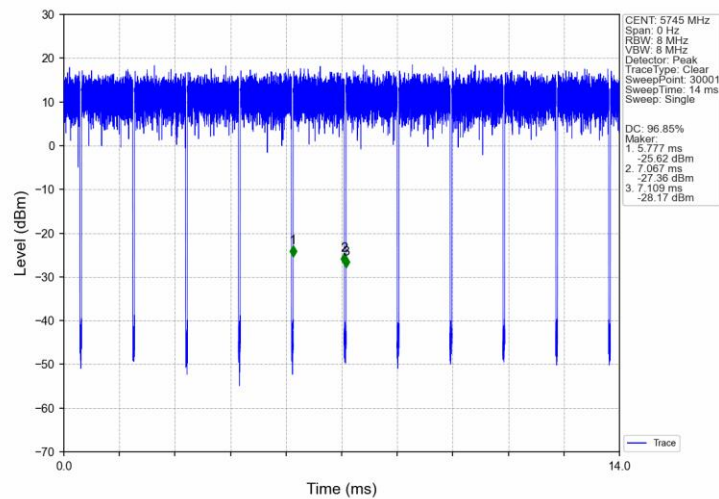
## 802.11n(HT20) MCH 5200MHz Ant1 NTN



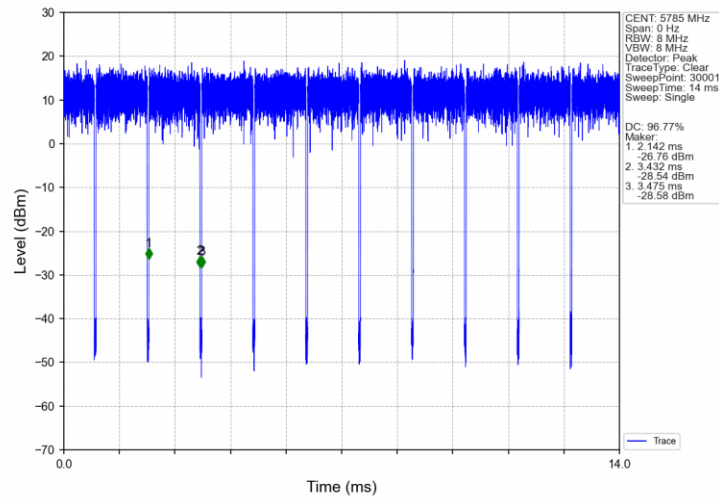
## 802.11n(HT20) HCH 5240MHz Ant1 NTN



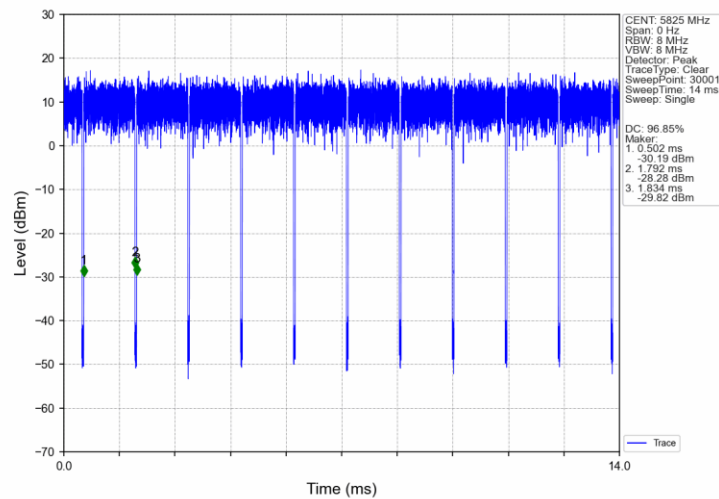
## 802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTN



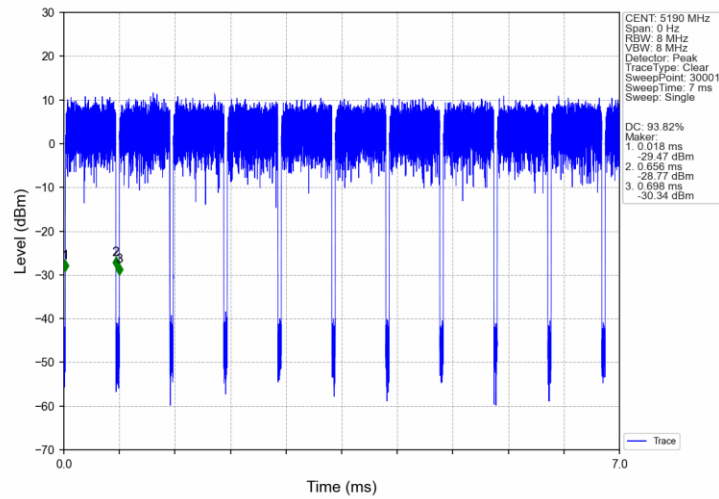
## 802.11n(HT20) MCH 5785MHz Ant1 NTNv



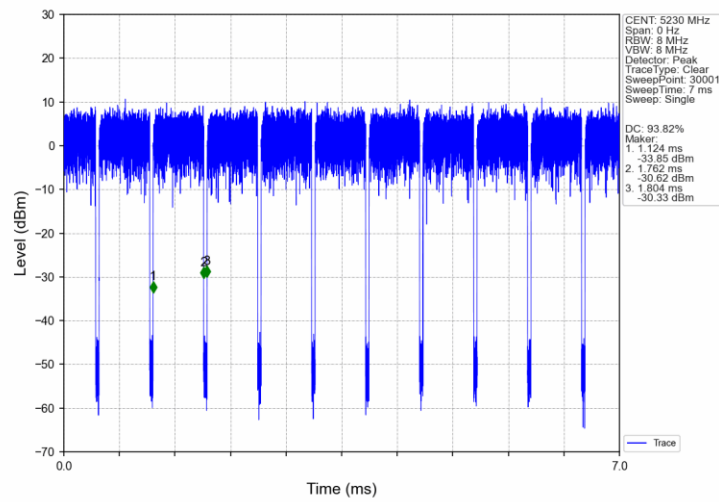
## 802.11n(HT20) HCH 5825MHz Ant1 NTNv



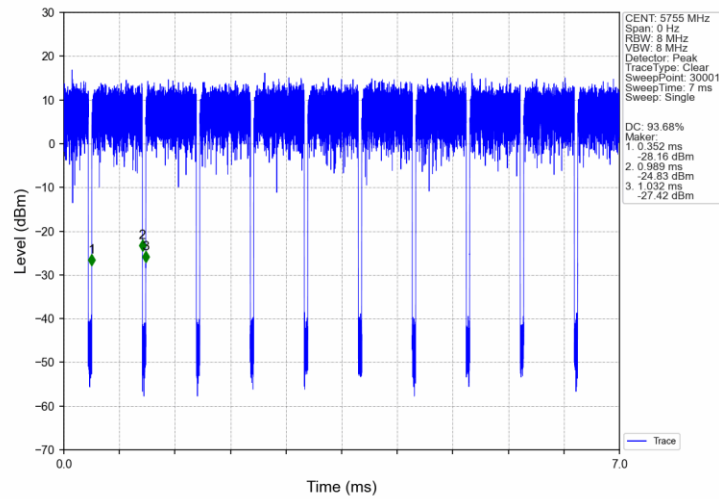
## 802.11n(HT40) LCH 5190MHz Ant1 NTN



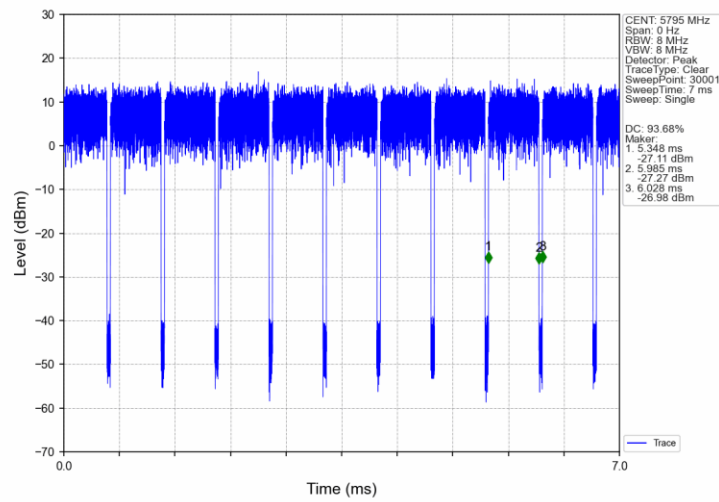
## 802.11n(HT40)\_HCH 5230MHz\_Ant1 NTN



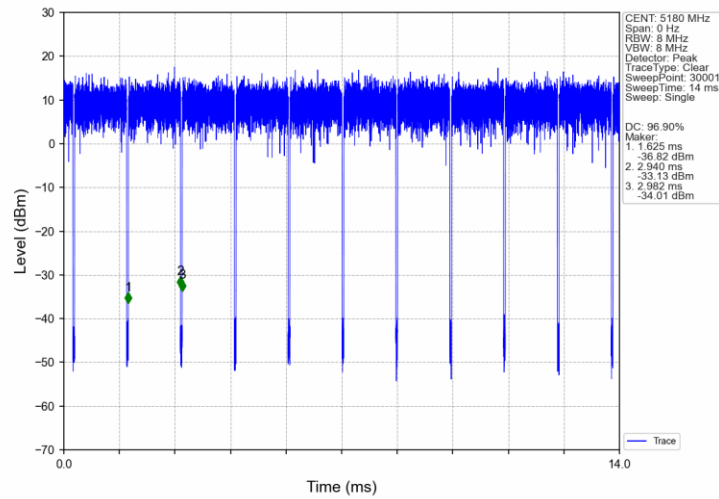
## 802.11n(HT40) LCH 5755MHz Ant1 NTN



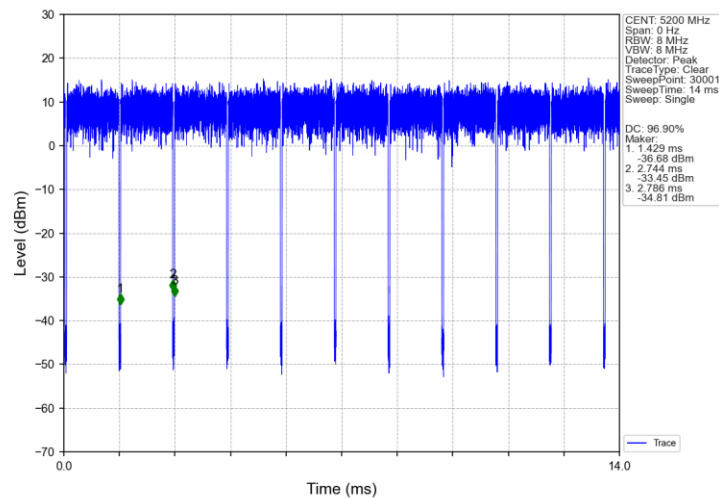
## 802.11n(HT40)\_HCH 5795MHz\_Ant1 NTN



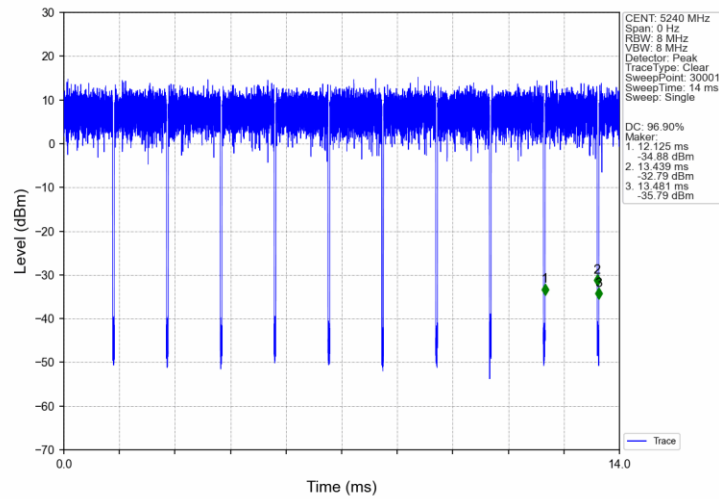
## 802.11ac(VHT20) LCH 5180MHz Ant1 NTN



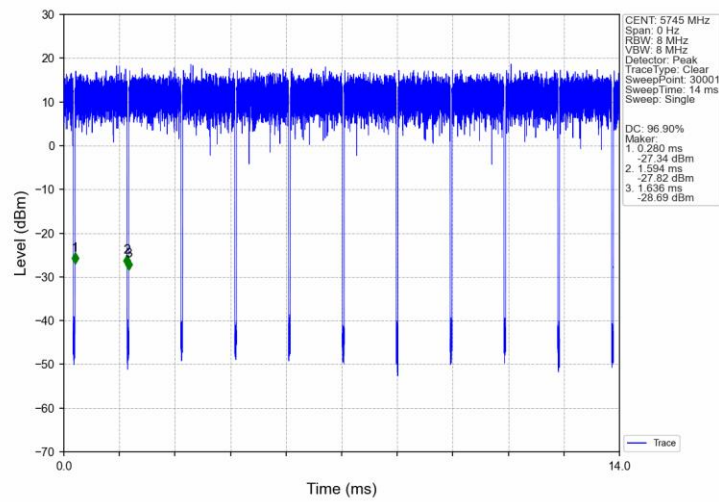
## 802.11ac(VHT20) MCH 5200MHz Ant1 NTN



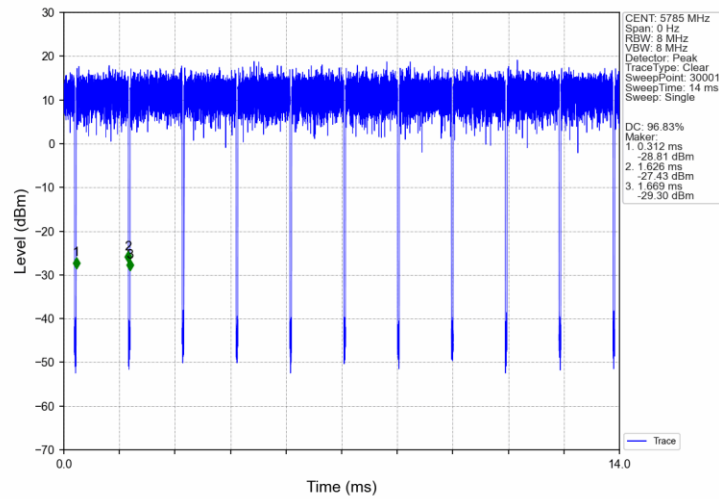
## 802.11ac(VHT20) HCH 5240MHz Ant1 NTN



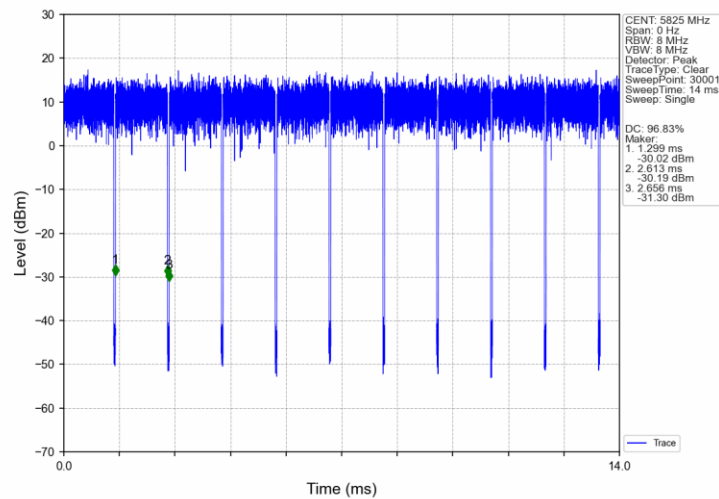
## 802.11ac(VHT20) LCH 5745MHz Ant1 NTN



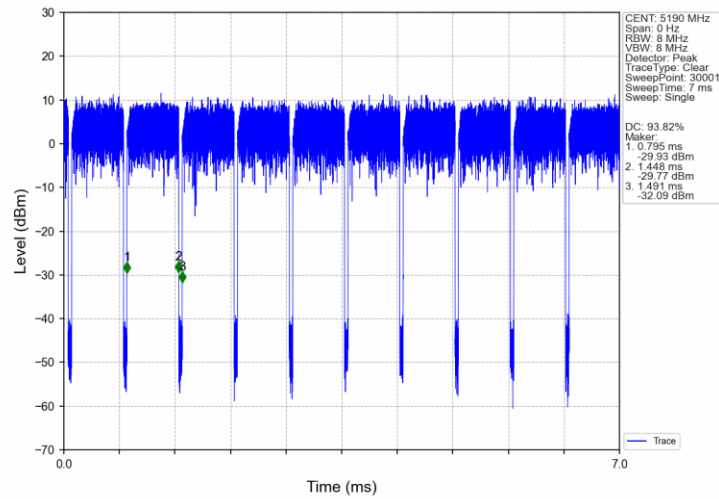
## 802.11ac(VHT20) MCH 5785MHz Ant1 NTN



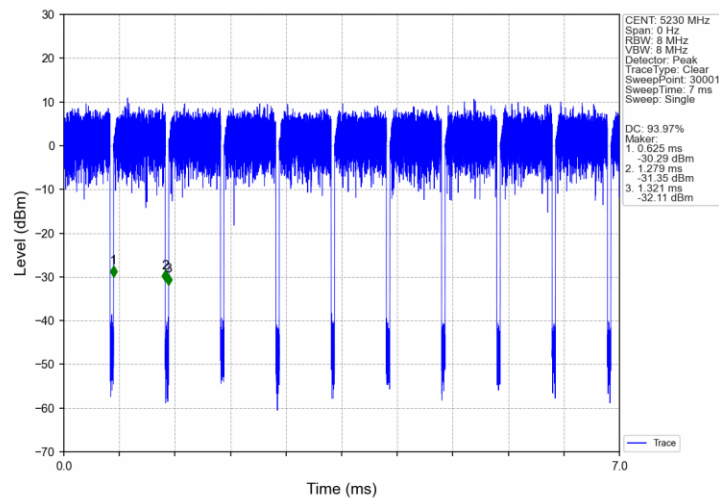
## 802.11ac(VHT20) HCH 5825MHz Ant1 NTN



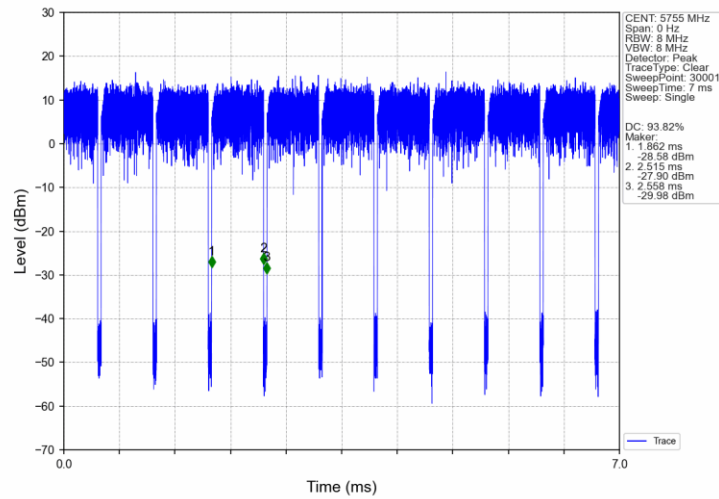
## 802.11ac(VHT40) LCH 5190MHz Ant1 NTN



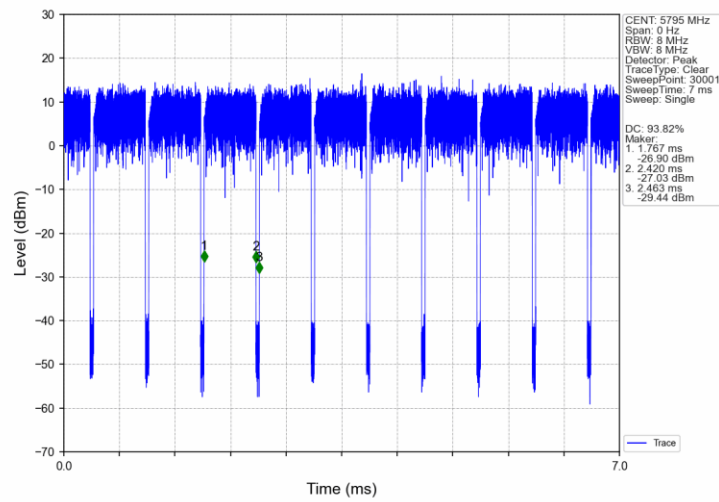
## 802.11ac(VHT40) HCH 5230MHz Ant1 NTN



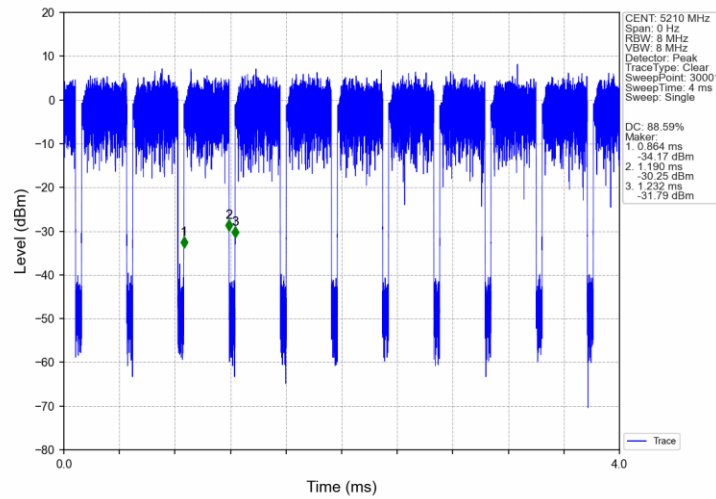
## 802.11ac(VHT40) LCH 5755MHz Ant1 NTN



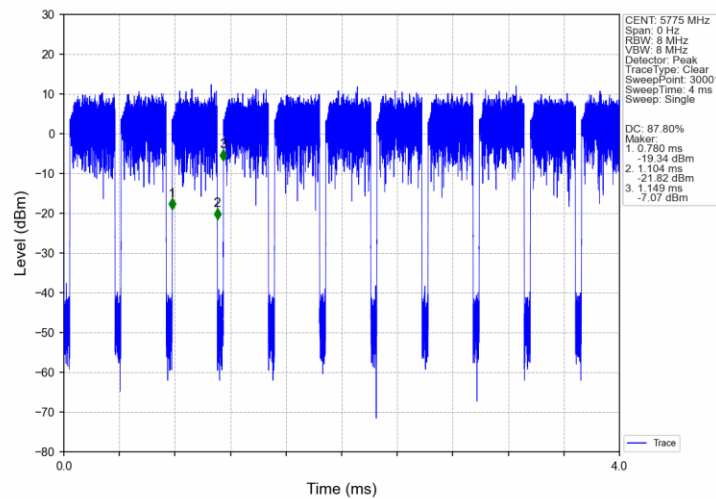
## 802.11ac(VHT40) HCH 5795MHz Ant1 NTN



## 802.11ac(VHT80) MCH\_5210MHz\_Ant1\_NTNV



## 802.11ac(VHT80) MCH\_5775MHz\_Ant1\_NTNV



## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

| Mode             | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------------------|---------|-----------------|-----|------------------------------|-------|---------|
|                  |         |                 |     | Result                       | Limit |         |
| 802.11a          | SISO    | 5180            | 1   | 17.393                       | /     | Pass    |
|                  |         | 5200            | 1   | 17.446                       | /     | Pass    |
|                  |         | 5240            | 1   | 17.451                       | /     | Pass    |
|                  |         | 5745            | 1   | 17.467                       | /     | Pass    |
|                  |         | 5785            | 1   | 17.407                       | /     | Pass    |
|                  |         | 5825            | 1   | 17.435                       | /     | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | 1   | 18.258                       | /     | Pass    |
|                  |         | 5200            | 1   | 18.329                       | /     | Pass    |
|                  |         | 5240            | 1   | 18.379                       | /     | Pass    |
|                  |         | 5745            | 1   | 18.370                       | /     | Pass    |
|                  |         | 5785            | 1   | 18.328                       | /     | Pass    |
|                  |         | 5825            | 1   | 18.322                       | /     | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | 1   | 36.591                       | /     | Pass    |
|                  |         | 5230            | 1   | 36.774                       | /     | Pass    |
|                  |         | 5755            | 1   | 36.634                       | /     | Pass    |
|                  |         | 5795            | 1   | 36.630                       | /     | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | 1   | 18.274                       | /     | Pass    |
|                  |         | 5200            | 1   | 18.330                       | /     | Pass    |
|                  |         | 5240            | 1   | 18.299                       | /     | Pass    |
|                  |         | 5745            | 1   | 18.261                       | /     | Pass    |
|                  |         | 5785            | 1   | 18.221                       | /     | Pass    |
|                  |         | 5825            | 1   | 18.176                       | /     | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | 1   | 36.585                       | /     | Pass    |
|                  |         | 5230            | 1   | 36.649                       | /     | Pass    |
|                  |         | 5755            | 1   | 36.431                       | /     | Pass    |
|                  |         | 5795            | 1   | 36.441                       | /     | Pass    |
| 802.11ac (VHT80) | SISO    | 5210            | 1   | 75.801                       | /     | Pass    |
|                  |         | 5775            | 1   | 75.361                       | /     | Pass    |

#### 2.1.2 6dB BW

| Mode             | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------------------|---------|-----------------|-----|---------------------|------------|---------|
|                  |         |                 |     | Result              | Limit      |         |
| 802.11a          | SISO    | 5745            | 1   | 15.152              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 15.158              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 15.155              | $\geq 0.5$ | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | 1   | 15.162              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 15.145              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 15.147              | $\geq 0.5$ | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | 1   | 35.149              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | 1   | 35.144              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | 1   | 15.160              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 15.157              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 15.155              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | 1   | 35.131              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | 1   | 35.141              | $\geq 0.5$ | Pass    |

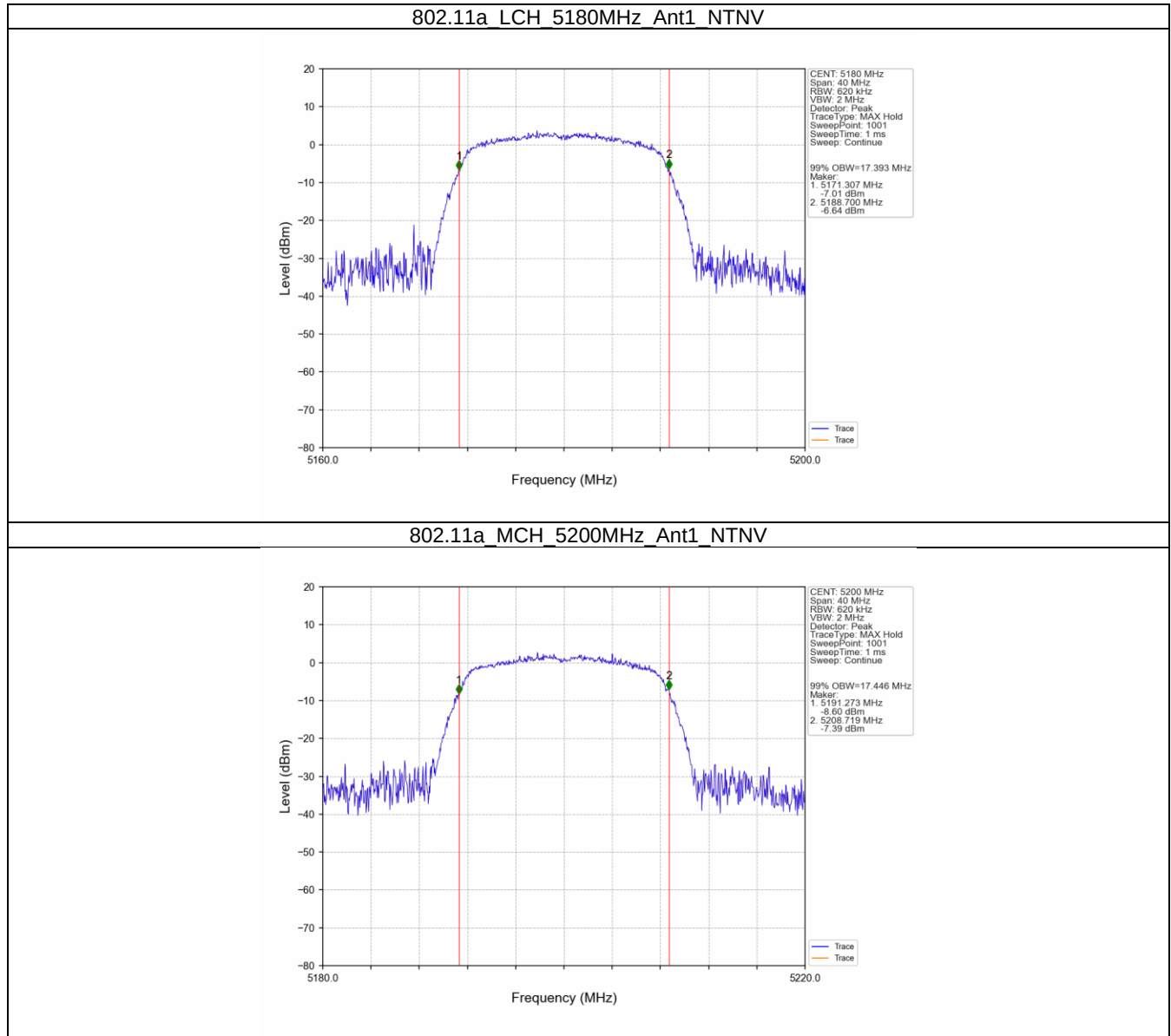
|                     |      |      |   |        |            |      |
|---------------------|------|------|---|--------|------------|------|
| 802.11ac<br>(VHT80) | SISO | 5775 | 1 | 75.142 | $\geq 0.5$ | Pass |
|---------------------|------|------|---|--------|------------|------|

### 2.1.3 26dB BW

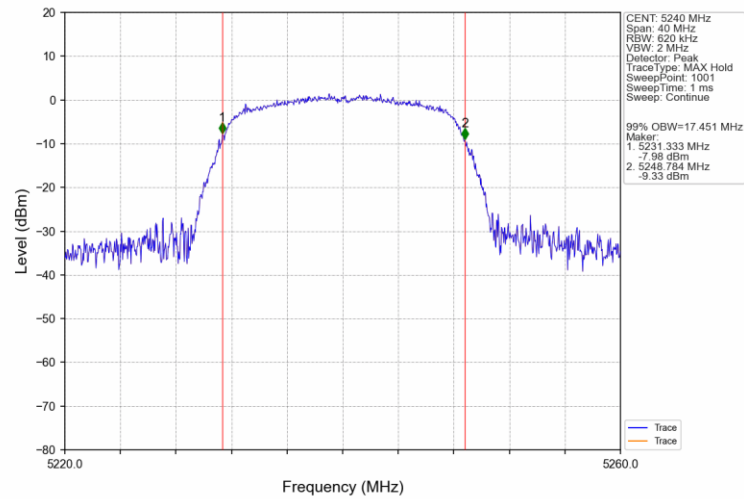
| Mode                | TX Type | Frequency (MHz) | ANT | 26dB Bandwidth (MHz) |       | Verdict |
|---------------------|---------|-----------------|-----|----------------------|-------|---------|
|                     |         |                 |     | Result               | Limit |         |
| 802.11a             | SISO    | 5180            | 1   | 19.988               | /     | Pass    |
|                     |         | 5200            | 1   | 19.988               | /     | Pass    |
|                     |         | 5240            | 1   | 19.988               | /     | Pass    |
| 802.11n<br>(HT20)   | SISO    | 5180            | 1   | 20.219               | /     | Pass    |
|                     |         | 5200            | 1   | 20.274               | /     | Pass    |
|                     |         | 5240            | 1   | 20.096               | /     | Pass    |
| 802.11n<br>(HT40)   | SISO    | 5190            | 1   | 40.729               | /     | Pass    |
|                     |         | 5230            | 1   | 40.793               | /     | Pass    |
| 802.11ac<br>(VHT20) | SISO    | 5180            | 1   | 20.294               | /     | Pass    |
|                     |         | 5200            | 1   | 20.386               | /     | Pass    |
|                     |         | 5240            | 1   | 20.253               | /     | Pass    |
| 802.11ac<br>(VHT40) | SISO    | 5190            | 1   | 40.604               | /     | Pass    |
|                     |         | 5230            | 1   | 40.980               | /     | Pass    |
| 802.11ac<br>(VHT80) | SISO    | 5210            | 1   | 81.351               | /     | Pass    |

## 2.2 Test Graph

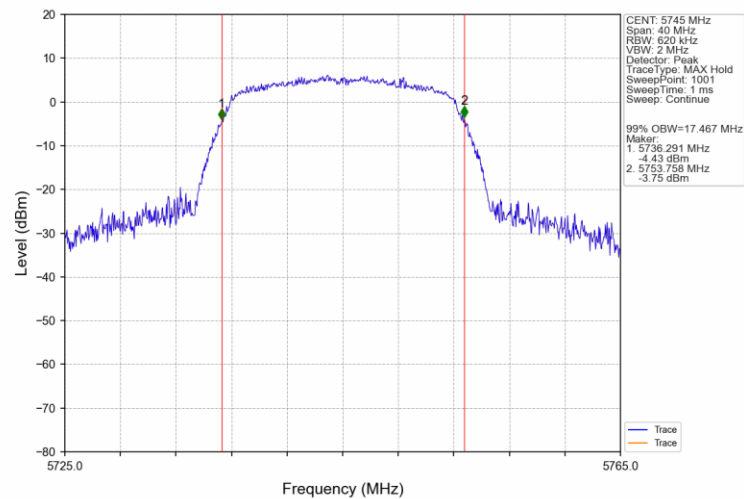
### 2.2.1 OBW



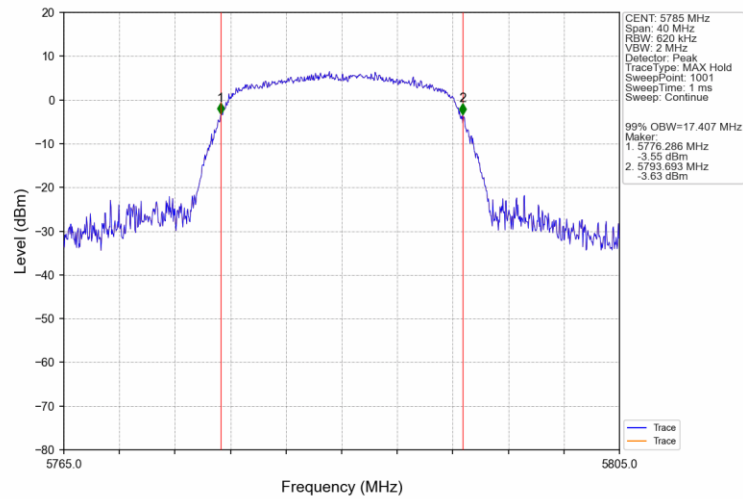
## 802.11a\_HCH\_5240MHz\_Ant1\_NTNV



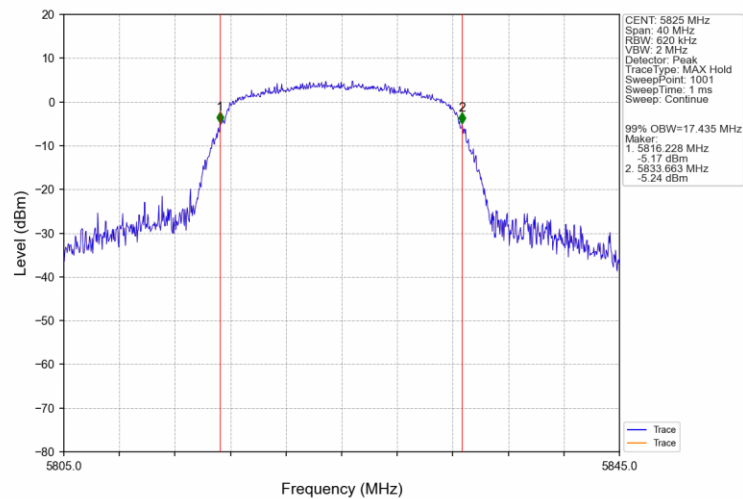
## 802.11a\_LCH\_5745MHz\_Ant1\_NTNV



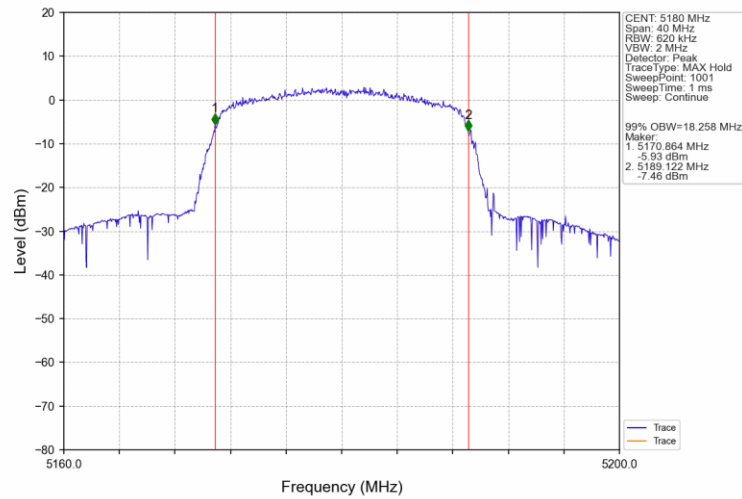
## 802.11a\_MCH\_5785MHz\_Ant1\_NTNV



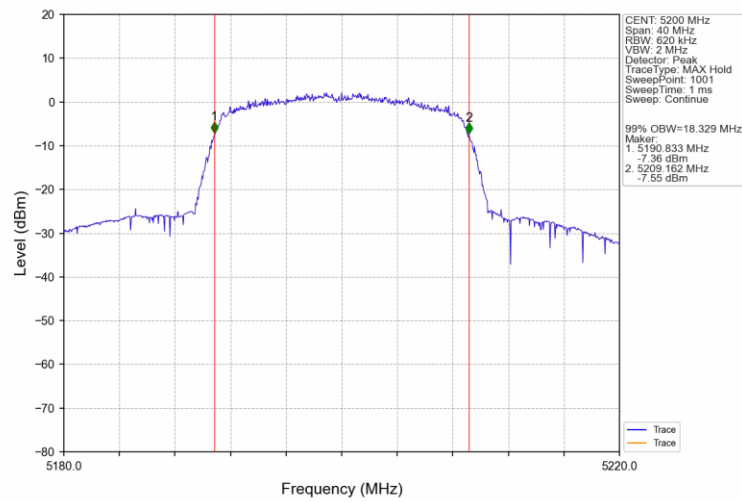
## 802.11a\_HCH\_5825MHz\_Ant1\_NTNV



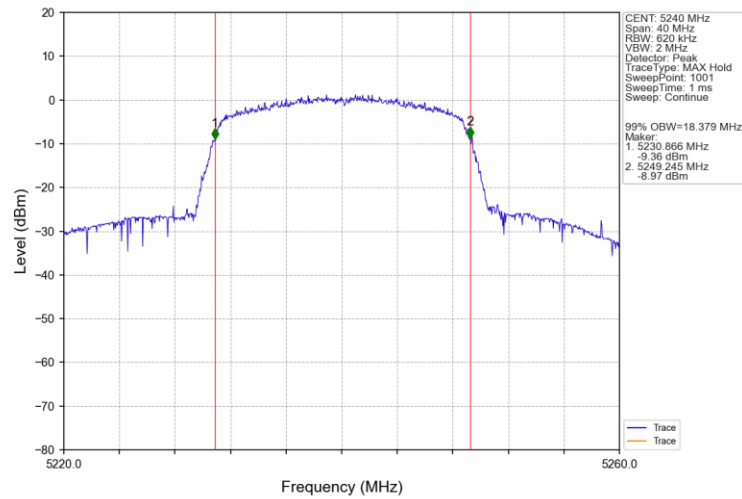
## 802.11n(HT20) LCH 5180MHz Ant1 NTN



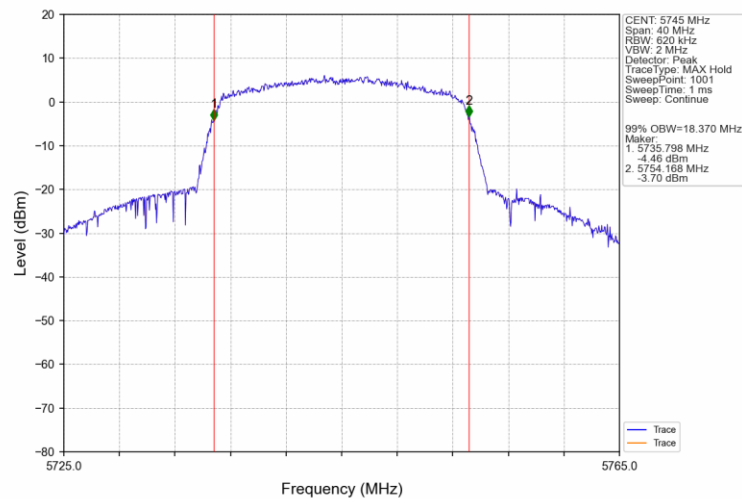
## 802.11n(HT20) MCH 5200MHz Ant1 NTN



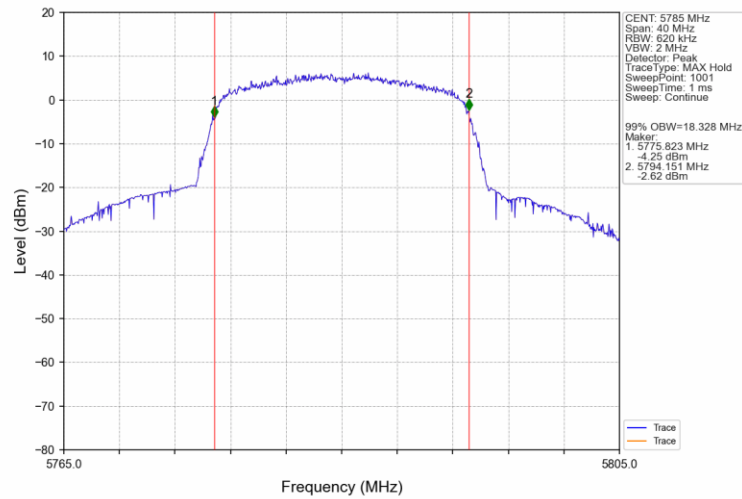
## 802.11n(HT20) HCH 5240MHz Ant1 NTN



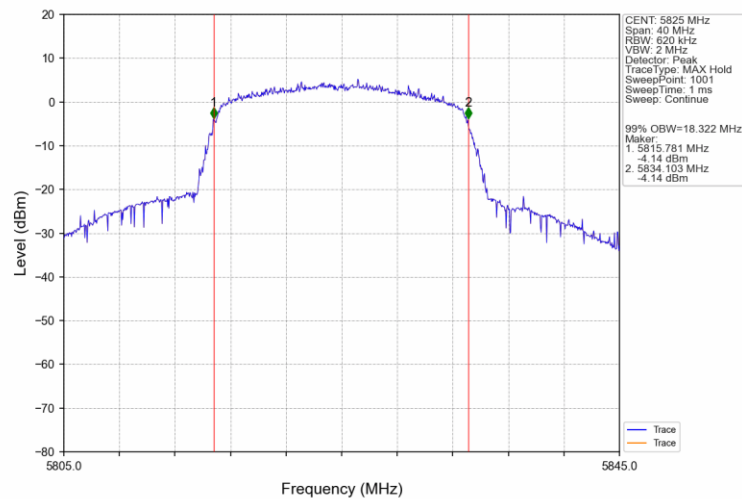
## 802.11n(HT20) LCH 5745MHz Ant1 NTN



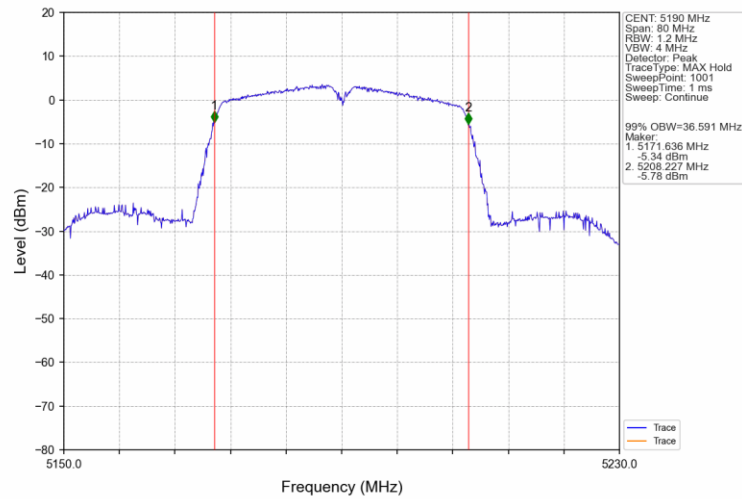
## 802.11n(HT20) MCH 5785MHz Ant1 NTN



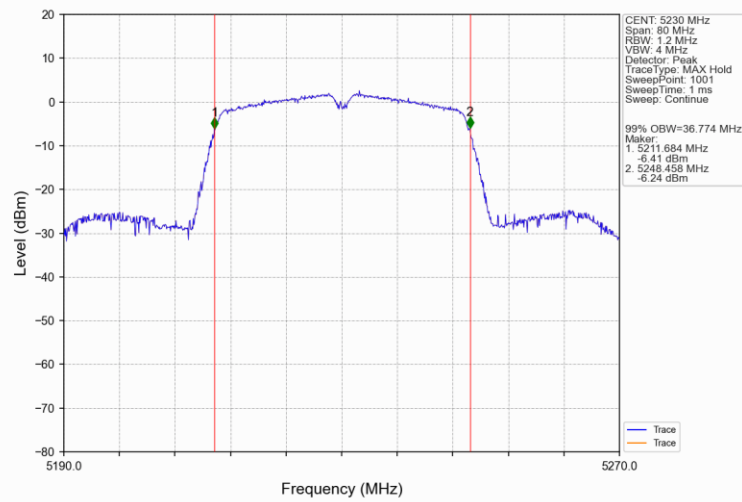
## 802.11n(HT20) HCH 5825MHz Ant1 NTN



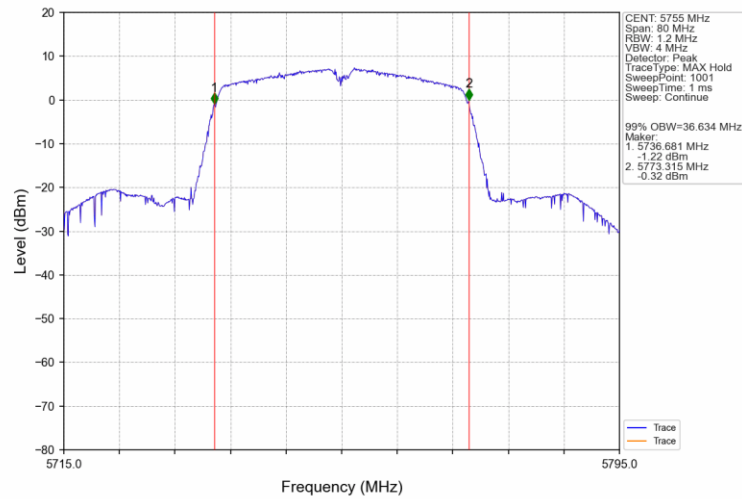
## 802.11n(HT40) LCH 5190MHz Ant1 NTN



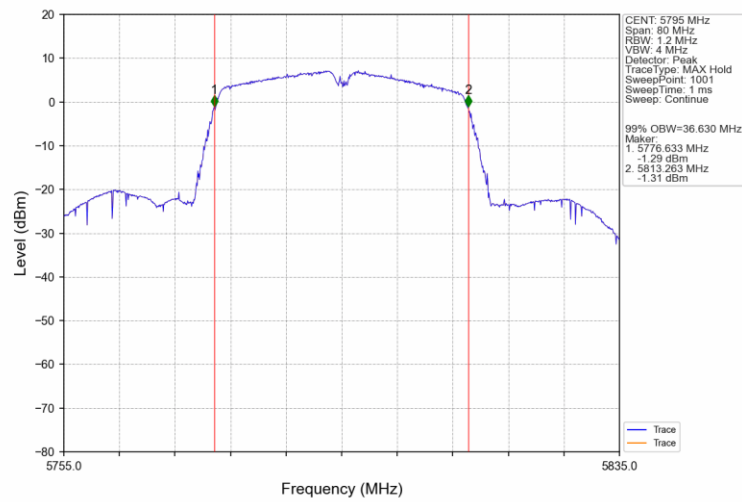
## 802.11n(HT40) HCH 5230MHz Ant1 NTN



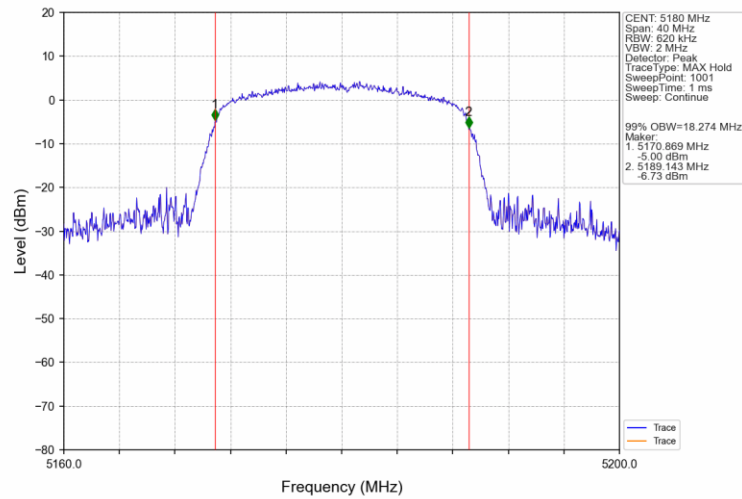
## 802.11n(HT40) LCH 5755MHz Ant1 NTN



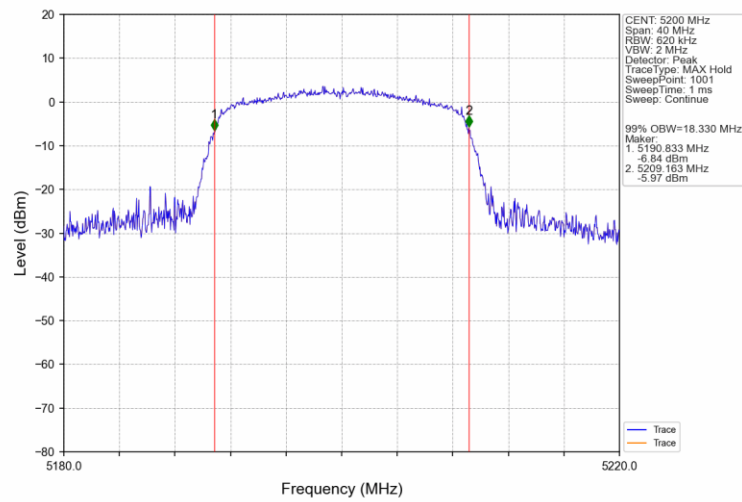
## 802.11n(HT40) HCH 5795MHz Ant1 NTN



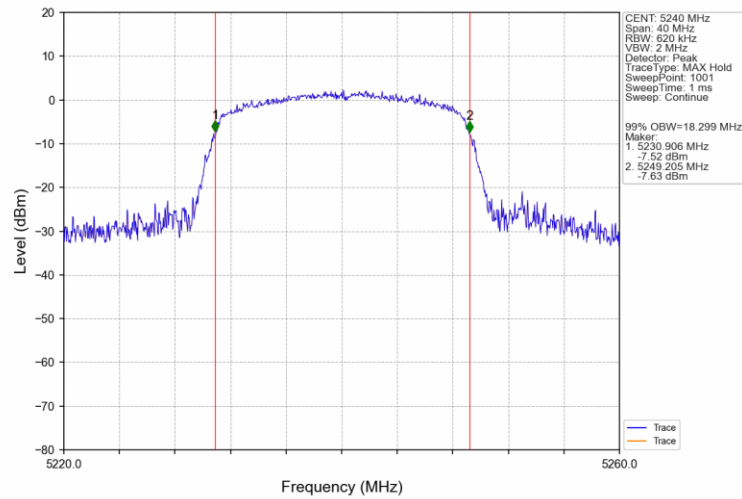
## 802.11ac(VHT20) LCH 5180MHz Ant1 NTN



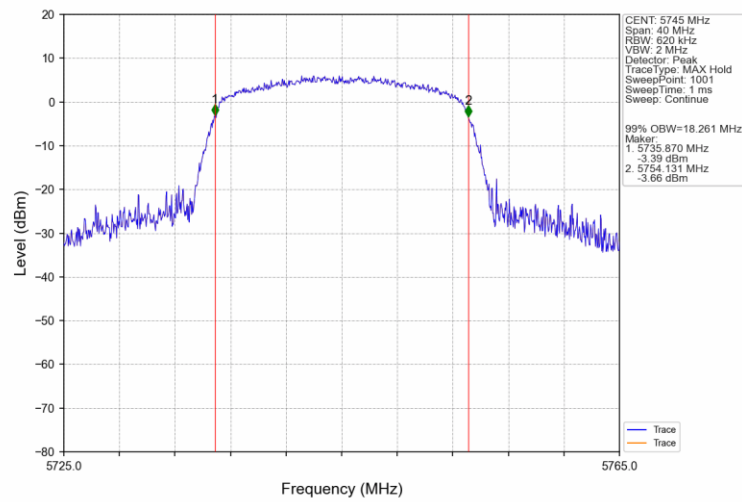
## 802.11ac(VHT20) MCH 5200MHz Ant1 NTN



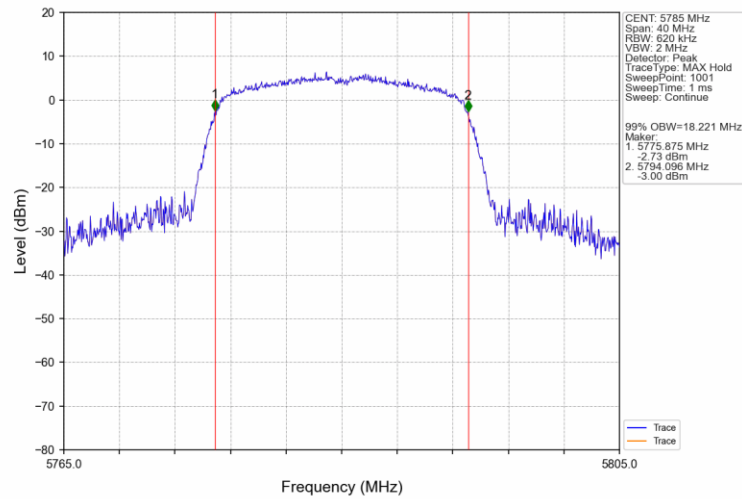
## 802.11ac(VHT20) HCH 5240MHz Ant1 NTN



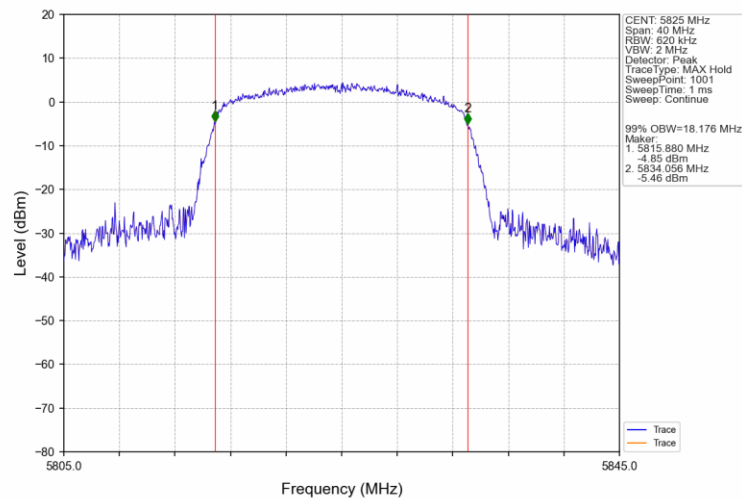
## 802.11ac(VHT20) LCH 5745MHz Ant1 NTN



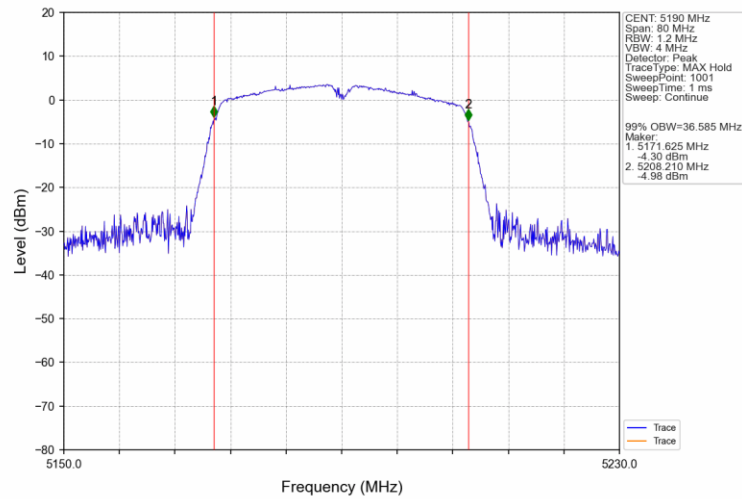
## 802.11ac(VHT20) MCH 5785MHz Ant1 NTN



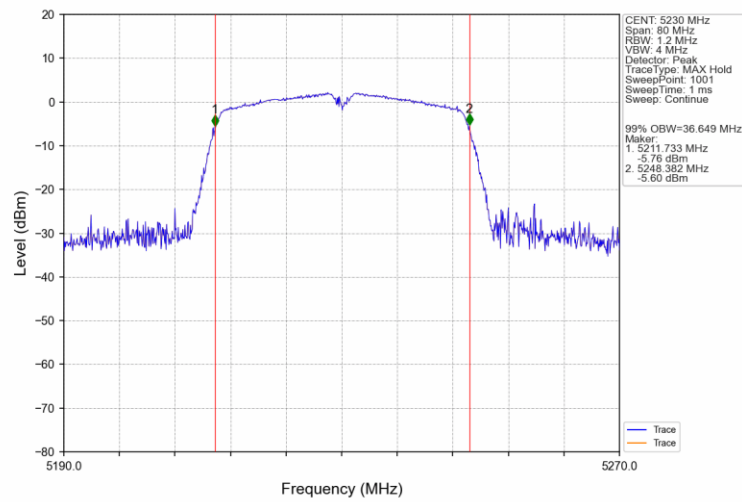
## 802.11ac(VHT20) HCH 5825MHz Ant1 NTN



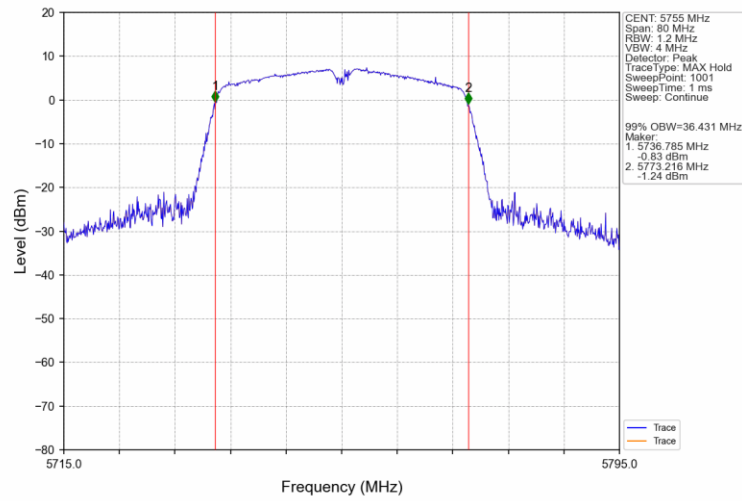
## 802.11ac(VHT40) LCH 5190MHz Ant1 NTN



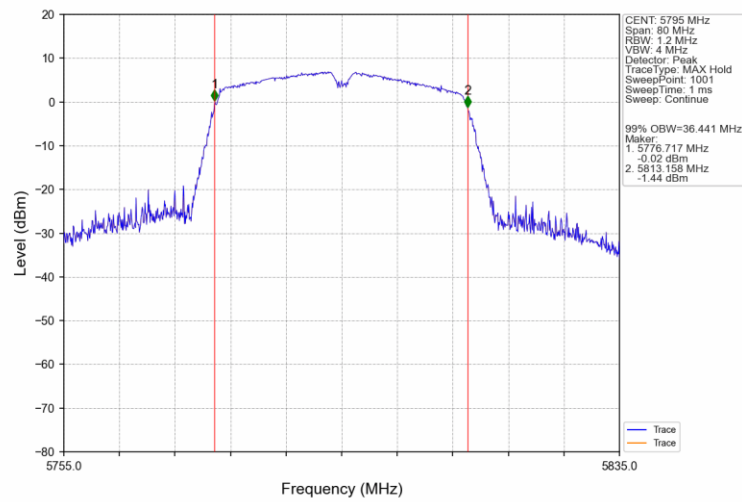
## 802.11ac(VHT40) HCH 5230MHz Ant1 NTN



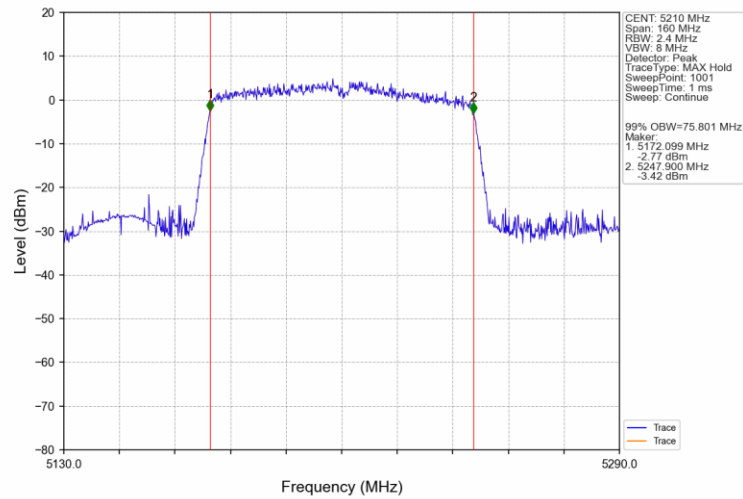
## 802.11ac(VHT40) LCH 5755MHz Ant1 NTN



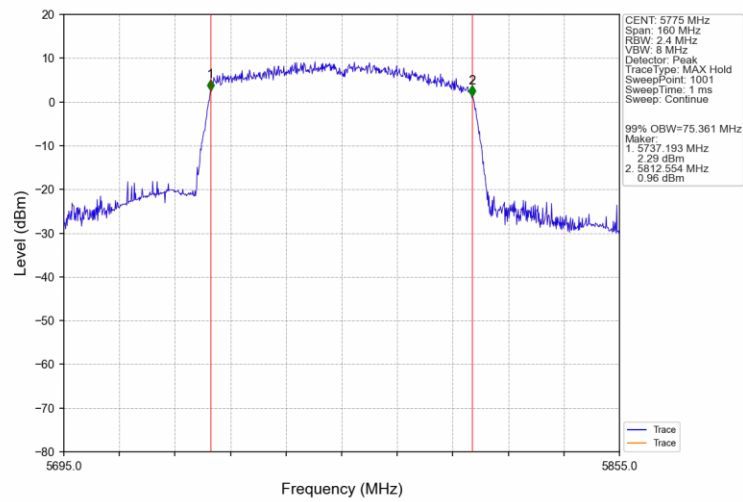
## 802.11ac(VHT40) HCH 5795MHz Ant1 NTN



## 802.11ac(VHT80) MCH 5210MHz Ant1 NTNv

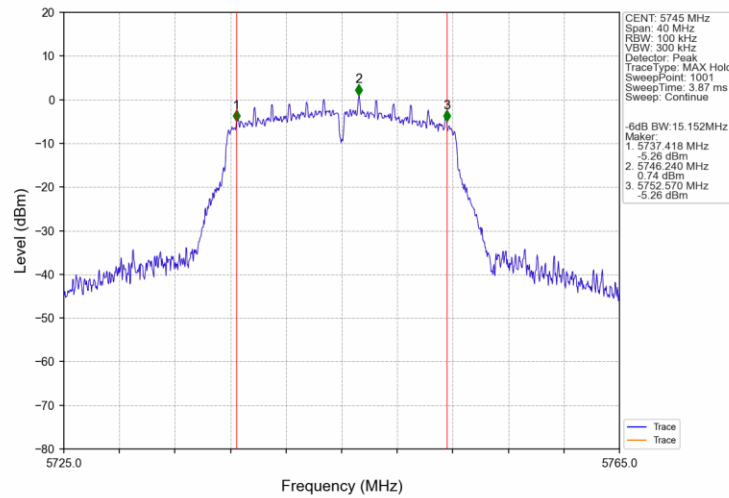


## 802.11ac(VHT80) MCH 5775MHz Ant1 NTNv

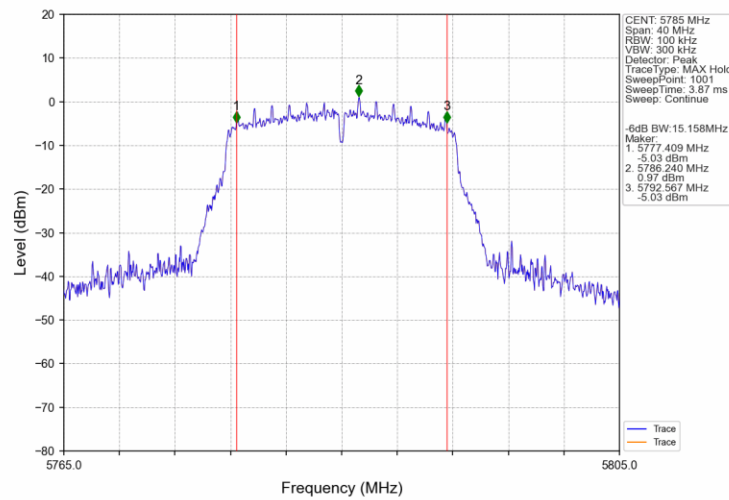


## 2.2.2 6dB BW

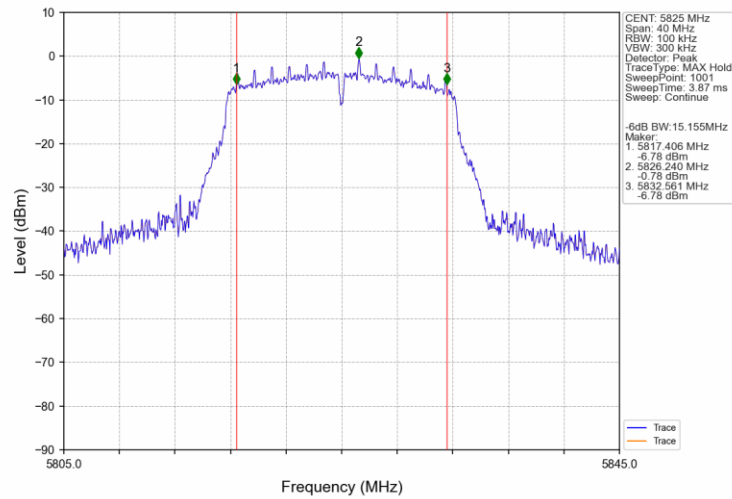
802.11a LCH 5745MHz Ant1 NTN



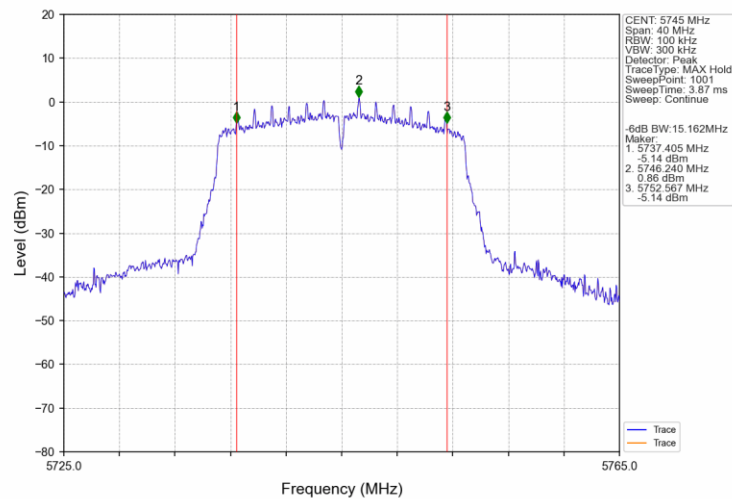
802.11a MCH 5785MHz Ant1 NTN



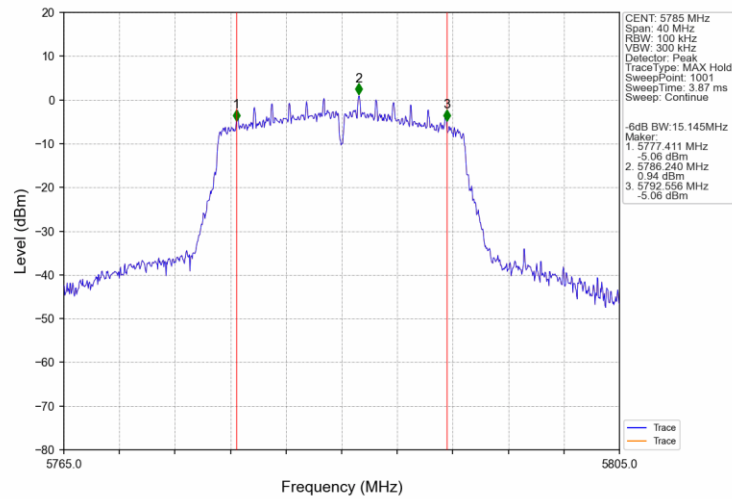
## 802.11a HCH 5825MHz Ant1 NTN



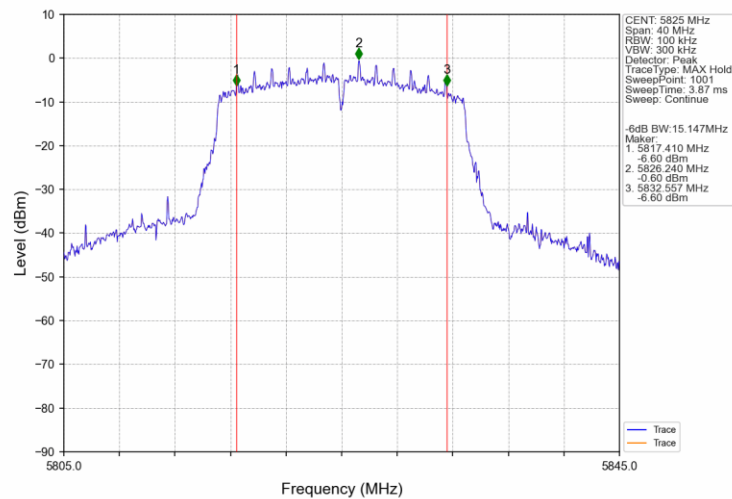
## 802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTN



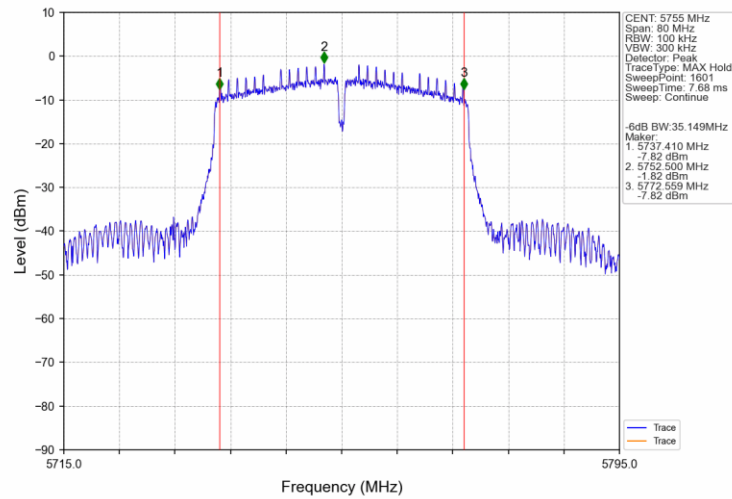
## 802.11n(HT20) MCH 5785MHz Ant1 NTNv



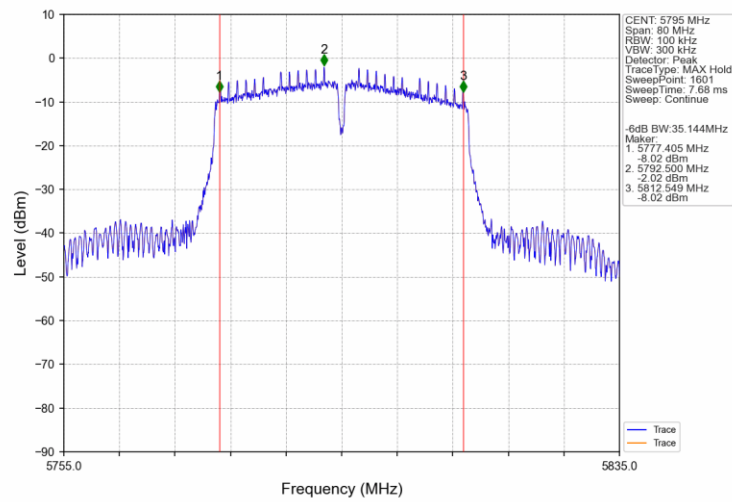
## 802.11n(HT20) HCH 5825MHz Ant1 NTNv



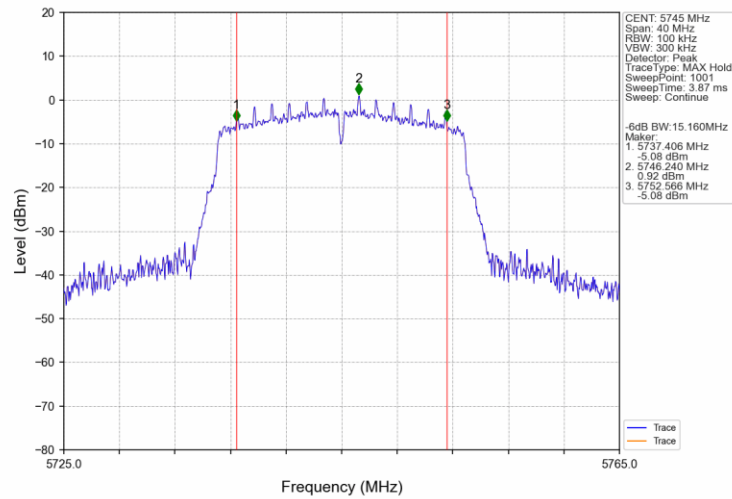
## 802.11n(HT40) LCH 5755MHz Ant1 NTN



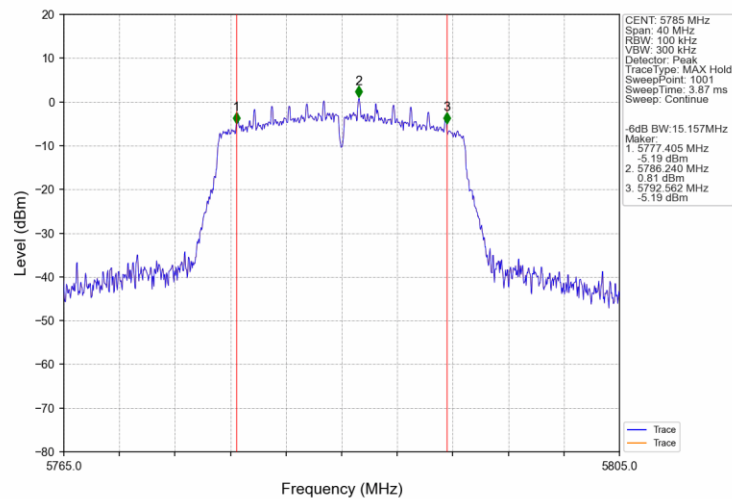
## 802.11n(HT40) HCH 5795MHz Ant1 NTN



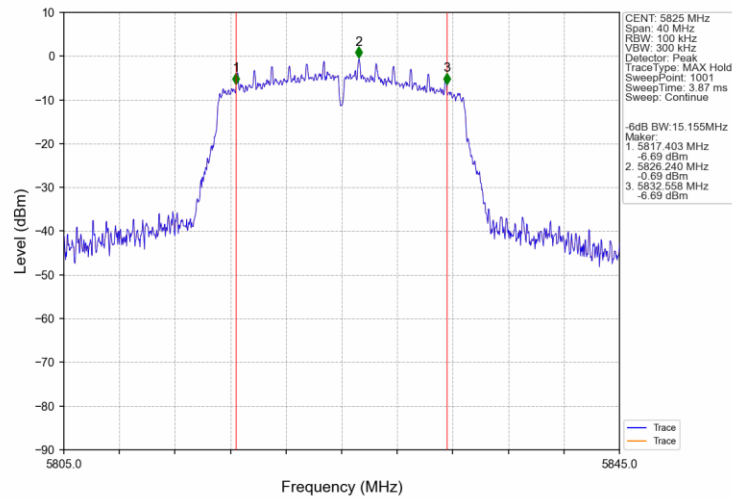
## 802.11ac(VHT20) LCH 5745MHz Ant1 NTN



## 802.11ac(VHT20) MCH 5785MHz Ant1 NTN



## 802.11ac(VHT20) HCH 5825MHz Ant1 NTN



## 802.11ac(VHT40) LCH 5755MHz Ant1 NTN

