

## 1. Duty Cycle

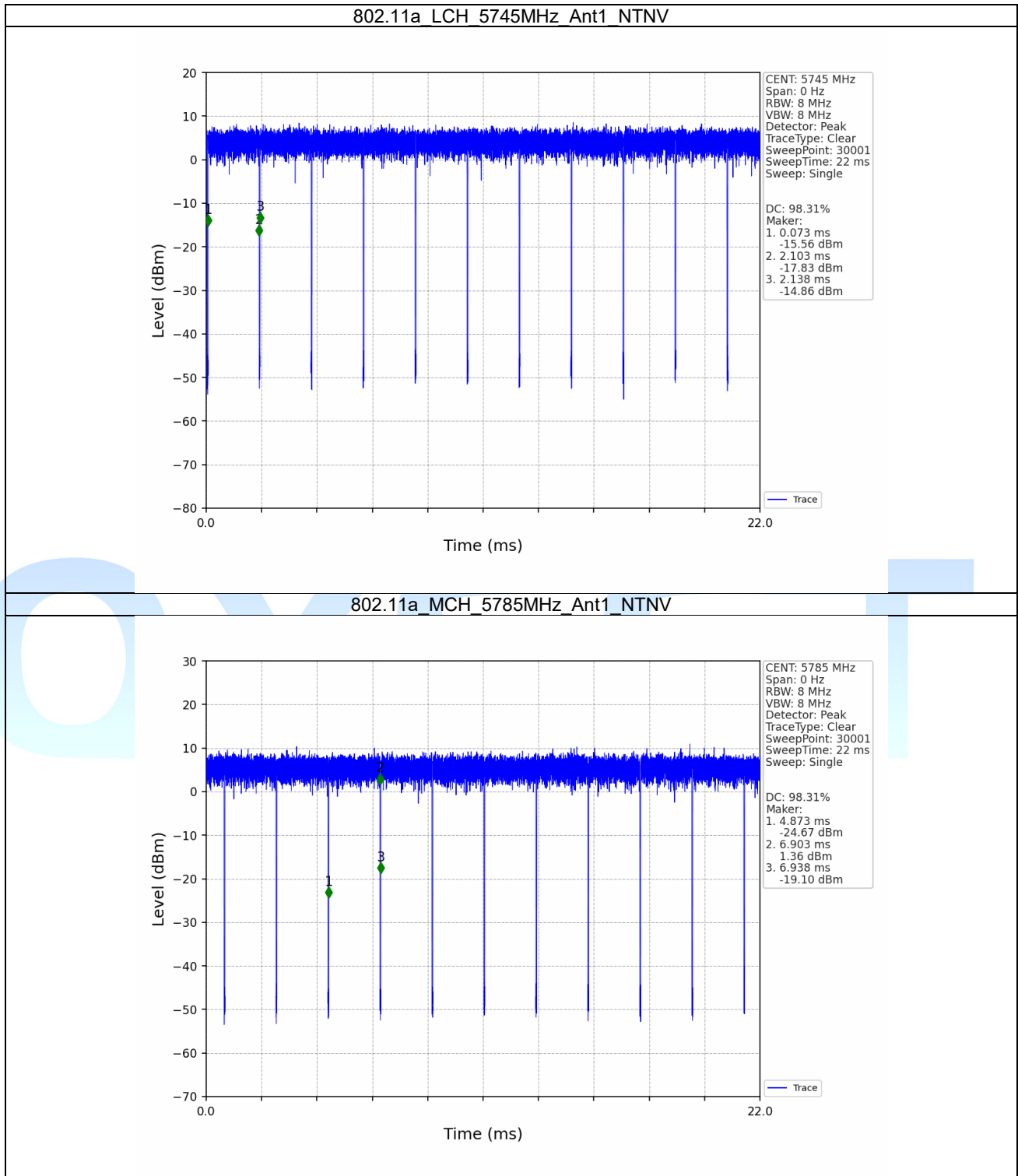
### 1.1 Test Result

#### 1.1.1 Ant1

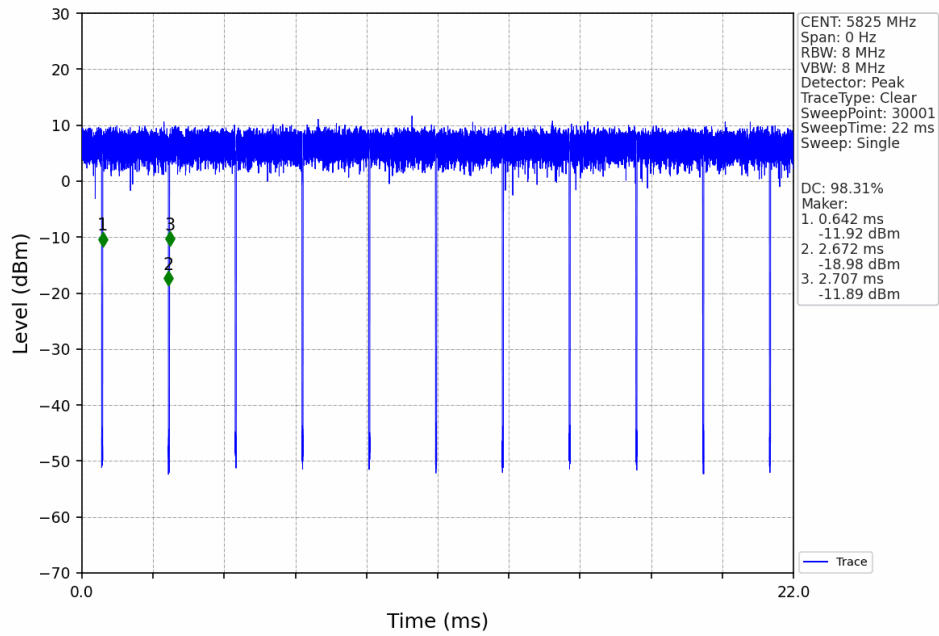
| Ant1             |         |                 |           |             |                |                                   |                       |
|------------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode             | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11a          | SISO    | 5745            | 2.030     | 2.065       | 98.31          | 0.07                              | 0.03                  |
|                  |         | 5785            | 2.030     | 2.065       | 98.31          | 0.07                              | 0.04                  |
|                  |         | 5825            | 2.030     | 2.065       | 98.31          | 0.07                              | 0.04                  |
| 802.11n (HT20)   | SISO    | 5745            | 1.890     | 1.926       | 98.13          | 0.08                              | 0.03                  |
|                  |         | 5785            | 1.890     | 1.925       | 98.18          | 0.08                              | 0.03                  |
|                  |         | 5825            | 1.890     | 1.926       | 98.13          | 0.08                              | 0.03                  |
| 802.11n (HT40)   | SISO    | 5755            | 0.930     | 0.964       | 96.47          | 0.16                              | 0.03                  |
|                  |         | 5795            | 0.930     | 0.964       | 96.47          | 0.16                              | 0.00                  |
| 802.11ac (VHT20) | SISO    | 5745            | 1.902     | 1.938       | 98.14          | 0.08                              | 0.03                  |
|                  |         | 5785            | 1.901     | 1.937       | 98.14          | 0.08                              | 0.04                  |
|                  |         | 5825            | 1.902     | 1.937       | 98.19          | 0.08                              | 0.03                  |
| 802.11ac (VHT40) | SISO    | 5755            | 0.938     | 0.972       | 96.50          | 0.15                              | 0.03                  |
|                  |         | 5795            | 0.938     | 0.972       | 96.50          | 0.15                              | 0.03                  |
| 802.11ac (VHT80) | SISO    | 5775            | 0.458     | 0.492       | 93.09          | 0.31                              | 0.03                  |

## 1.2 Test Graph

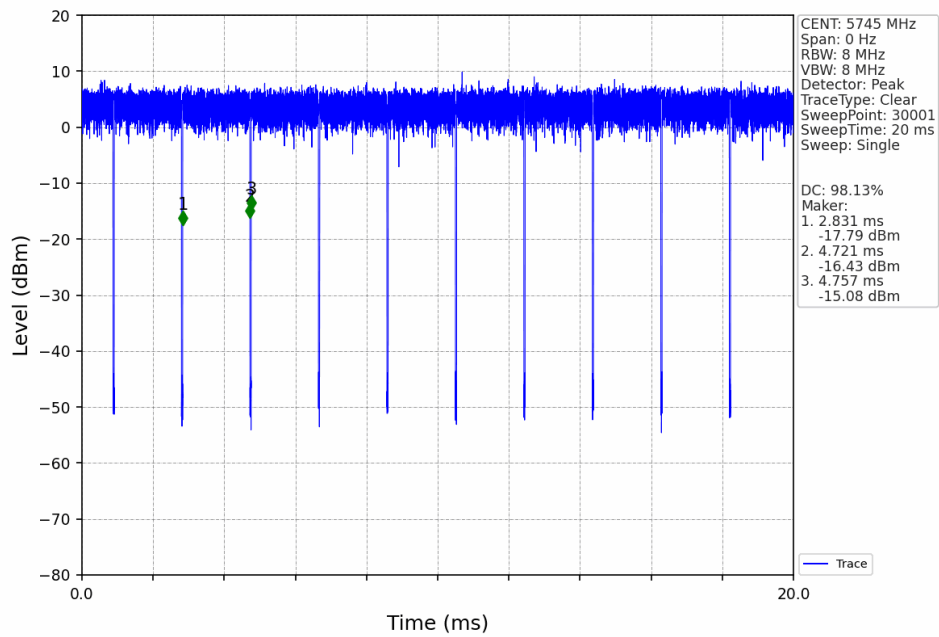
### 1.2.1 Ant1



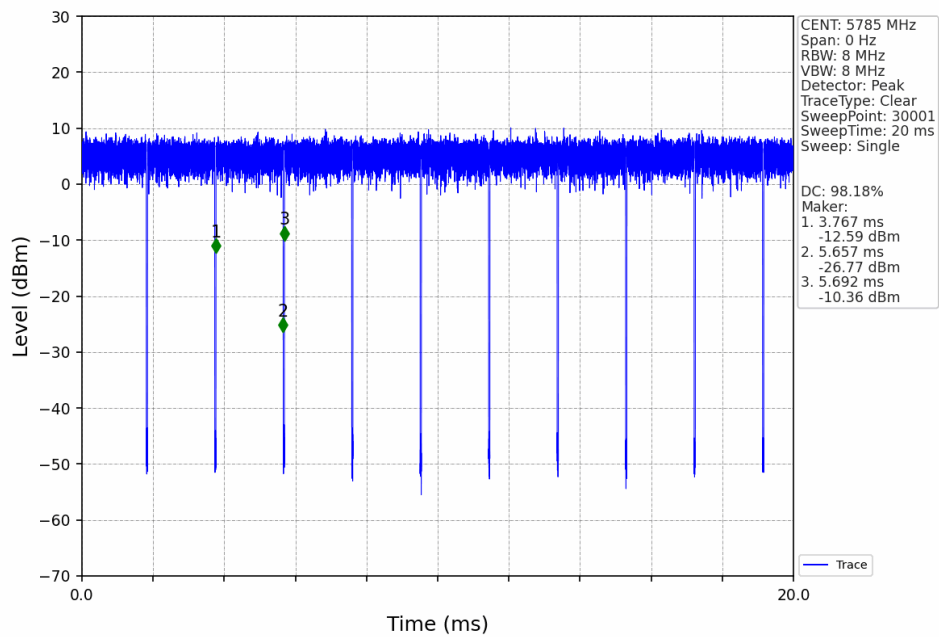
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



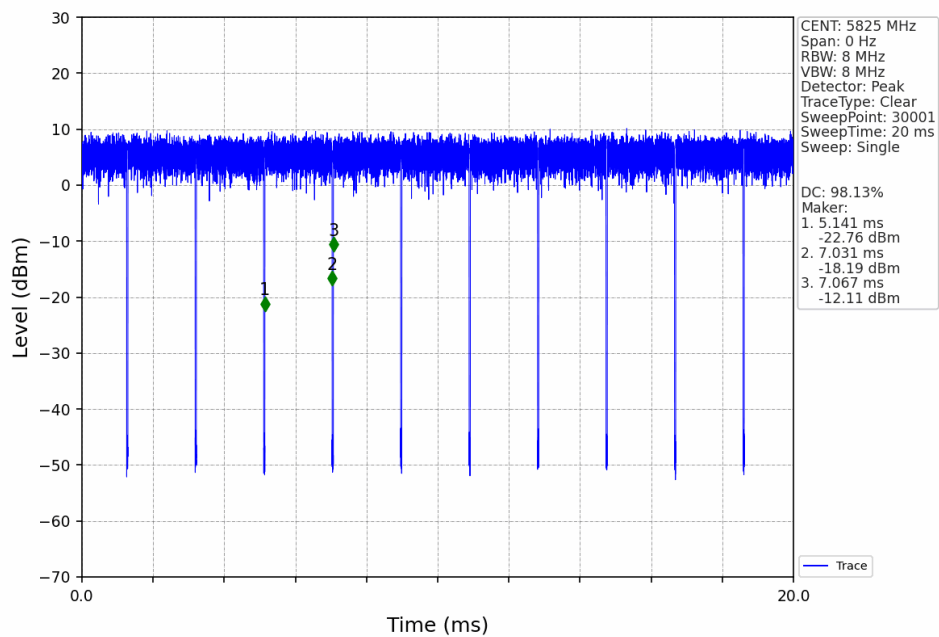
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



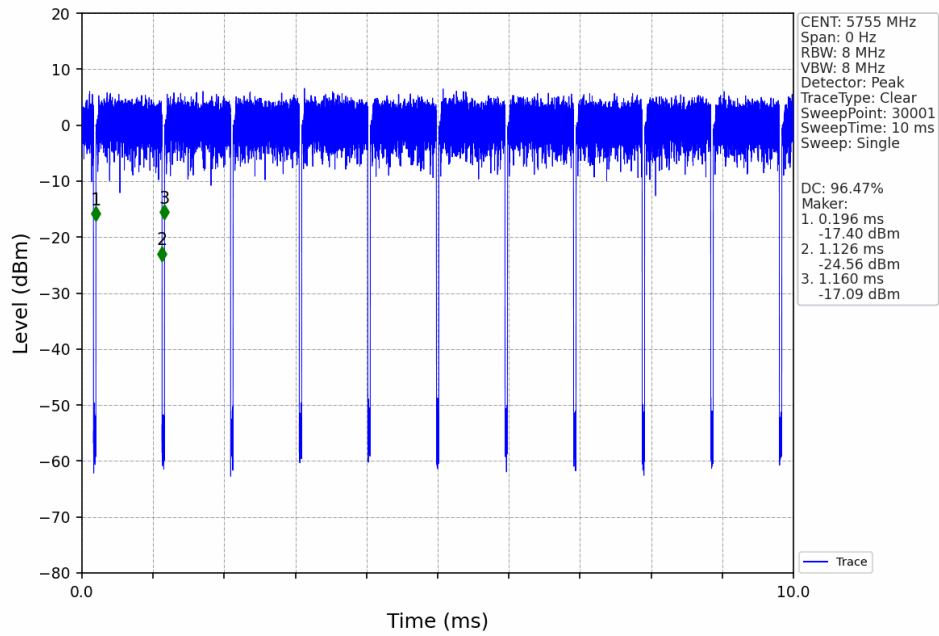
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



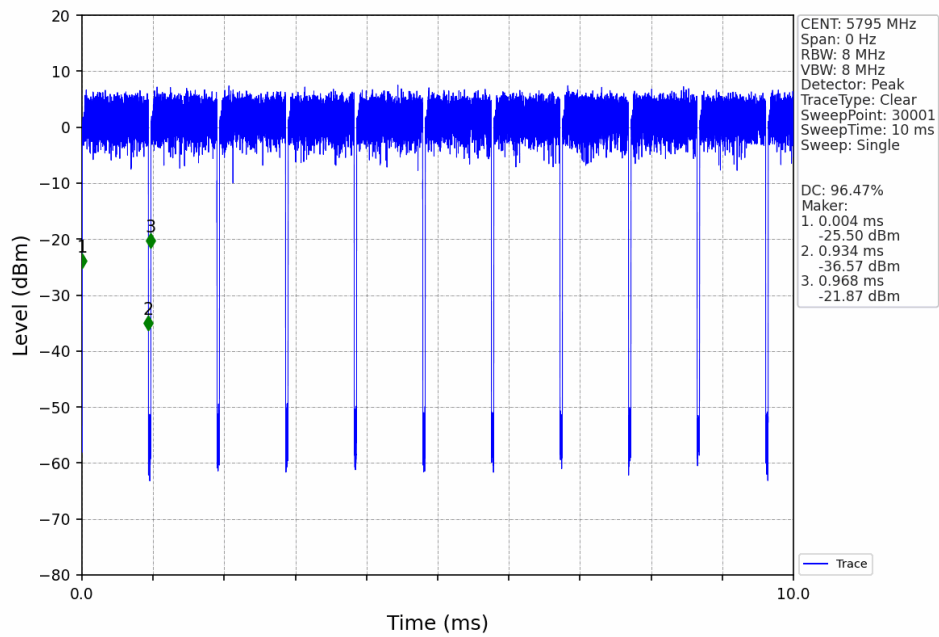
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



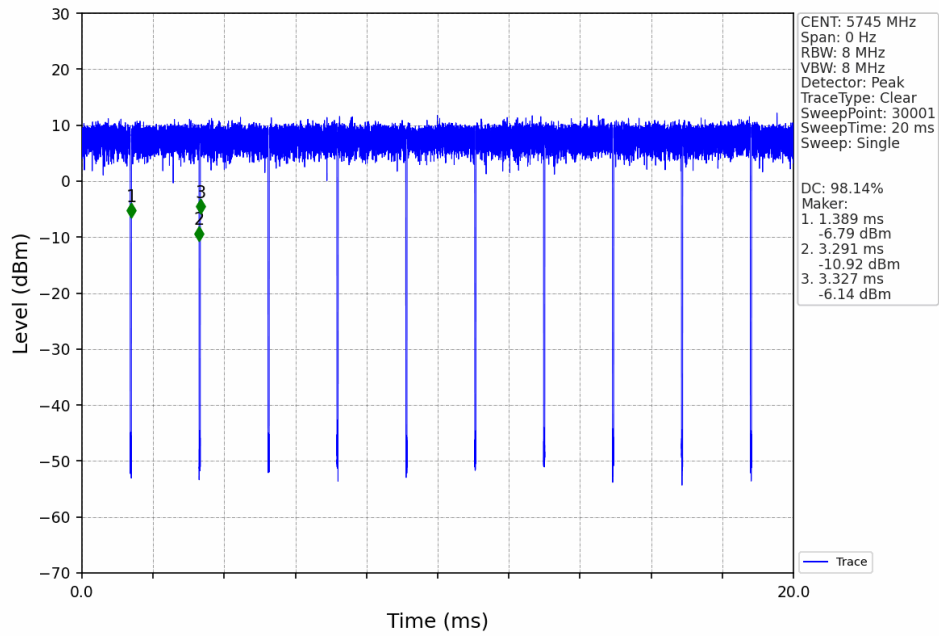
802.11n(HT40) LCH 5755MHz\_Ant1\_NTNV



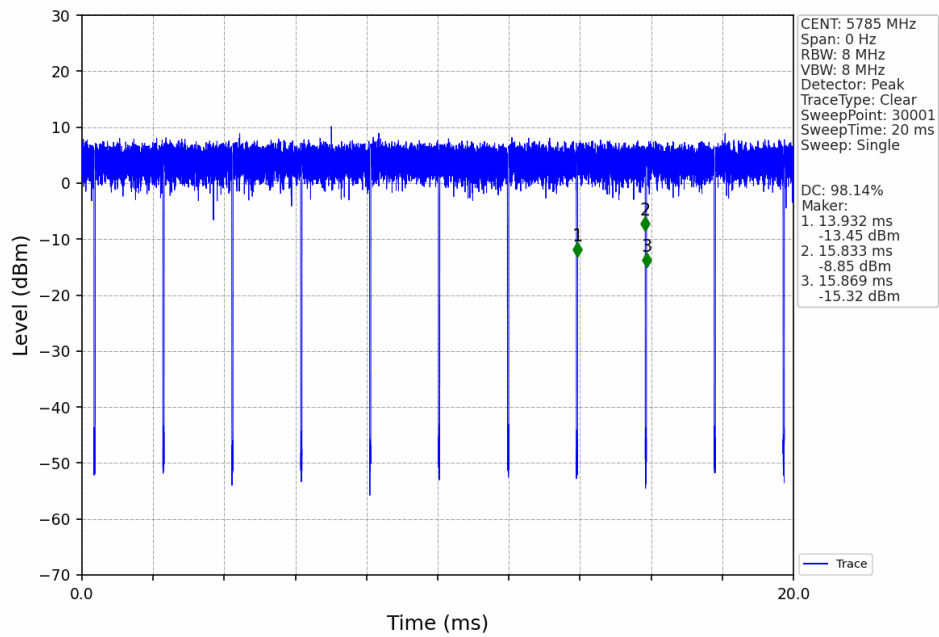
802.11n(HT40) HCH 5795MHz\_Ant1\_NTNV



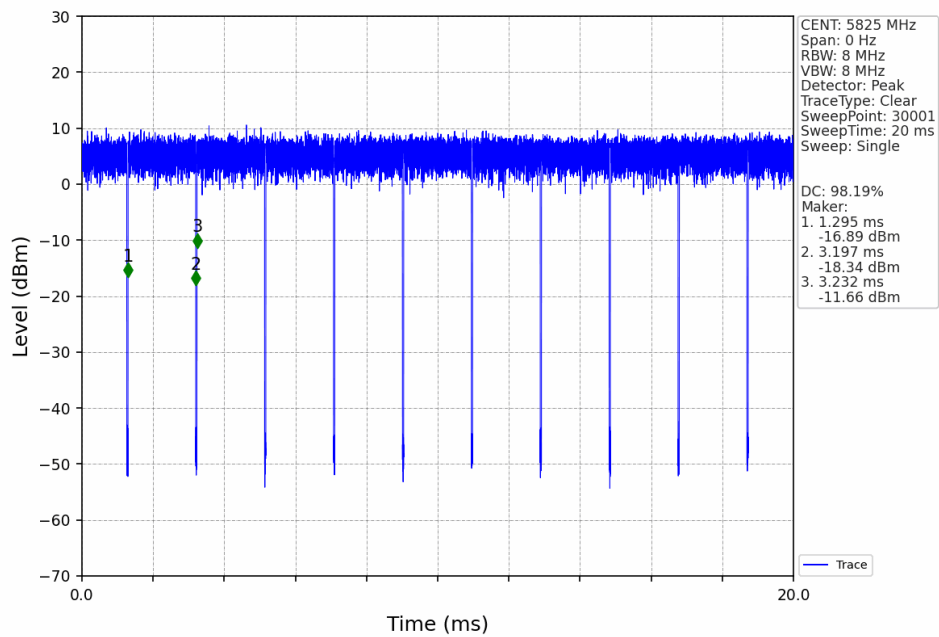
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



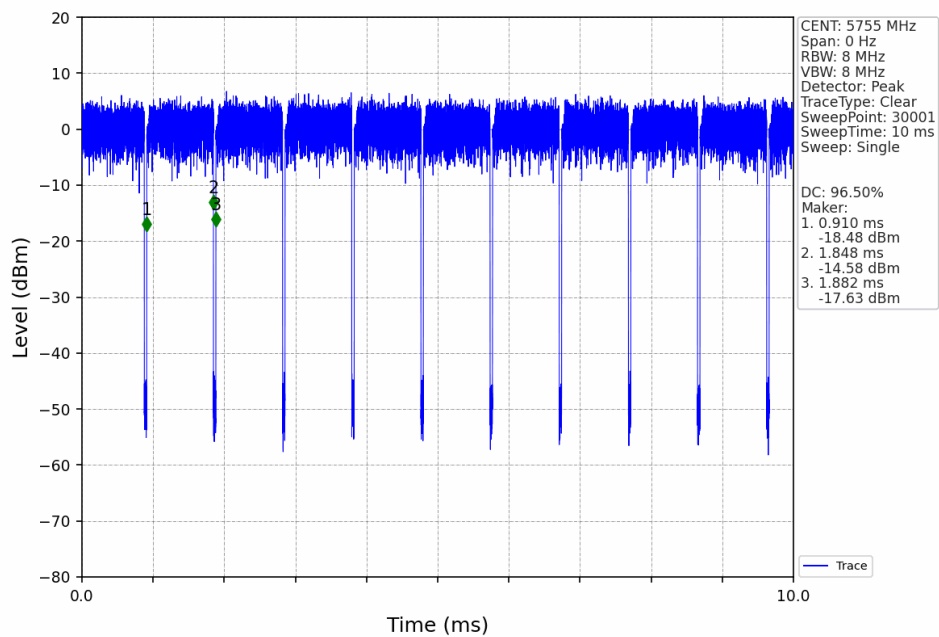
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



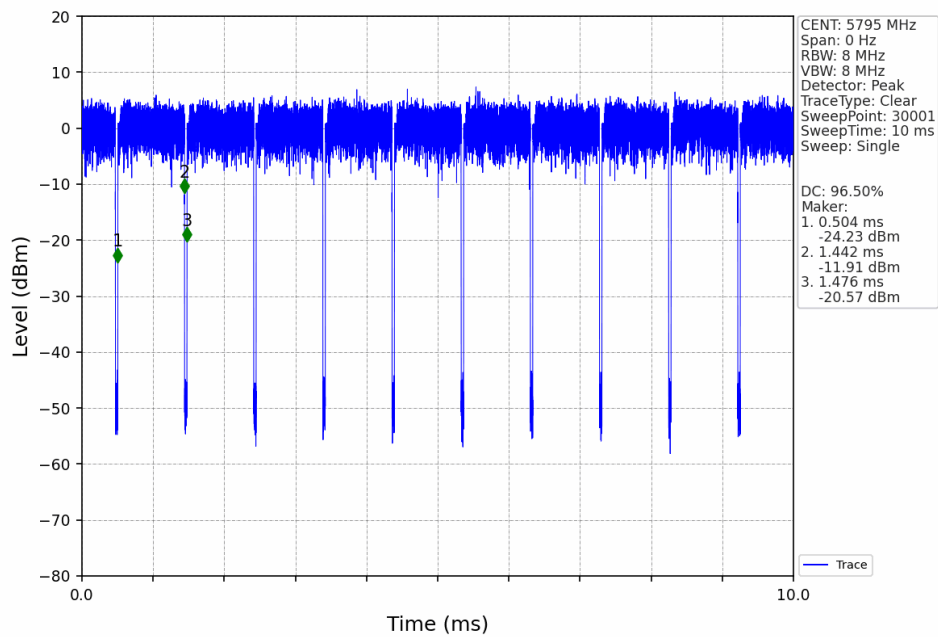
802.11ac(VHT20) HCH\_5825MHz\_Ant1\_NTNV



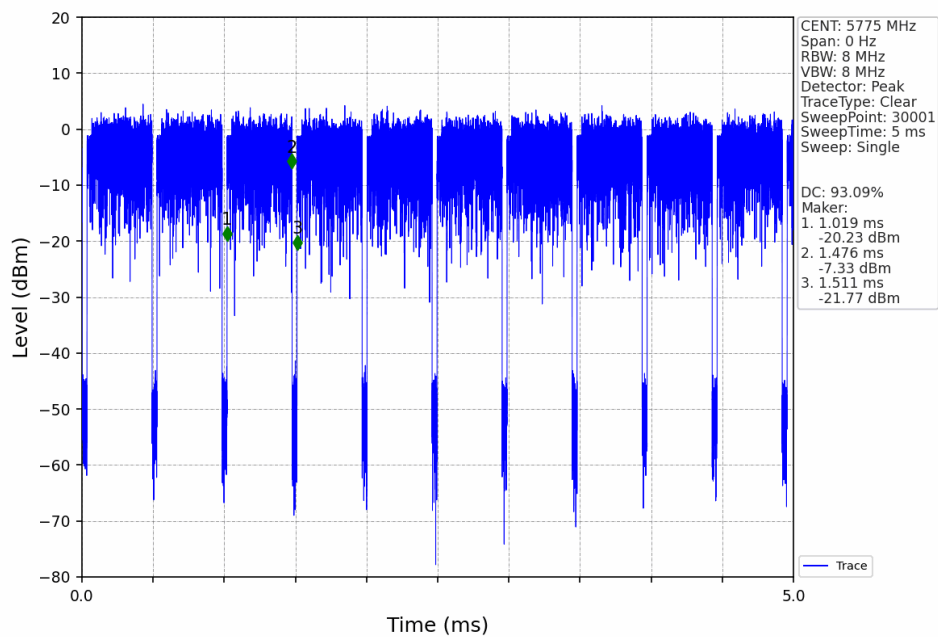
802.11ac(VHT40) LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40) HCH\_5795MHz\_Ant1\_NTNV



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



## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

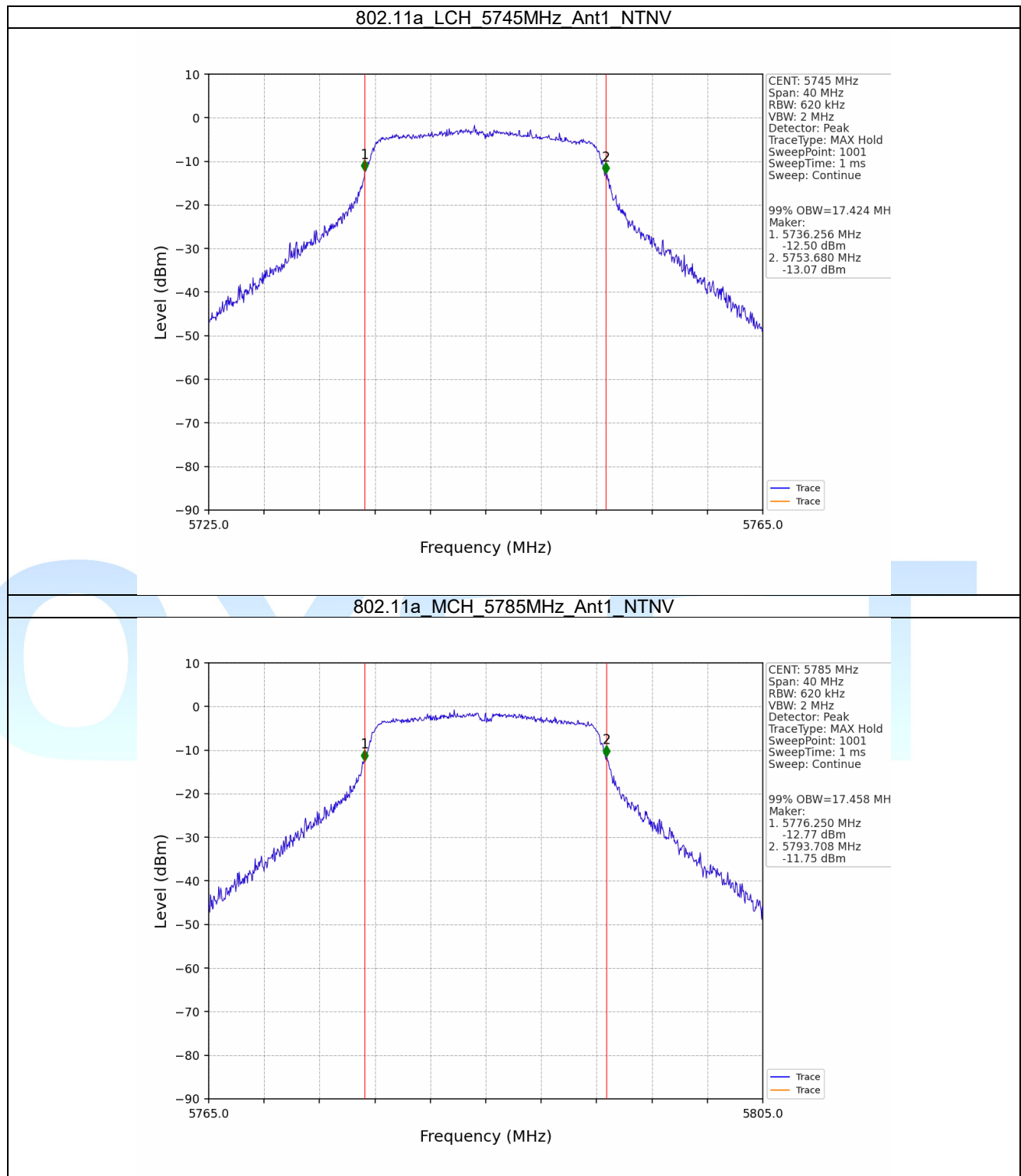
| Mode             | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------------------|---------|-----------------|-----|------------------------------|-------|---------|
|                  |         |                 |     | Result                       | Limit |         |
| 802.11a          | SISO    | 5745            | 1   | 17.424                       | /     | Pass    |
|                  |         | 5785            | 1   | 17.458                       | /     | Pass    |
|                  |         | 5825            | 1   | 17.407                       | /     | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | 1   | 18.518                       | /     | Pass    |
|                  |         | 5785            | 1   | 18.526                       | /     | Pass    |
|                  |         | 5825            | 1   | 18.548                       | /     | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | 1   | 36.629                       | /     | Pass    |
|                  |         | 5795            | 1   | 36.607                       | /     | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | 1   | 20.419                       | /     | Pass    |
|                  |         | 5785            | 1   | 18.654                       | /     | Pass    |
|                  |         | 5825            | 1   | 18.493                       | /     | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | 1   | 36.634                       | /     | Pass    |
|                  |         | 5795            | 1   | 36.806                       | /     | Pass    |
| 802.11ac (VHT80) | SISO    | 5775            | 1   | 76.459                       | /     | Pass    |

#### 2.1.2 6dB BW

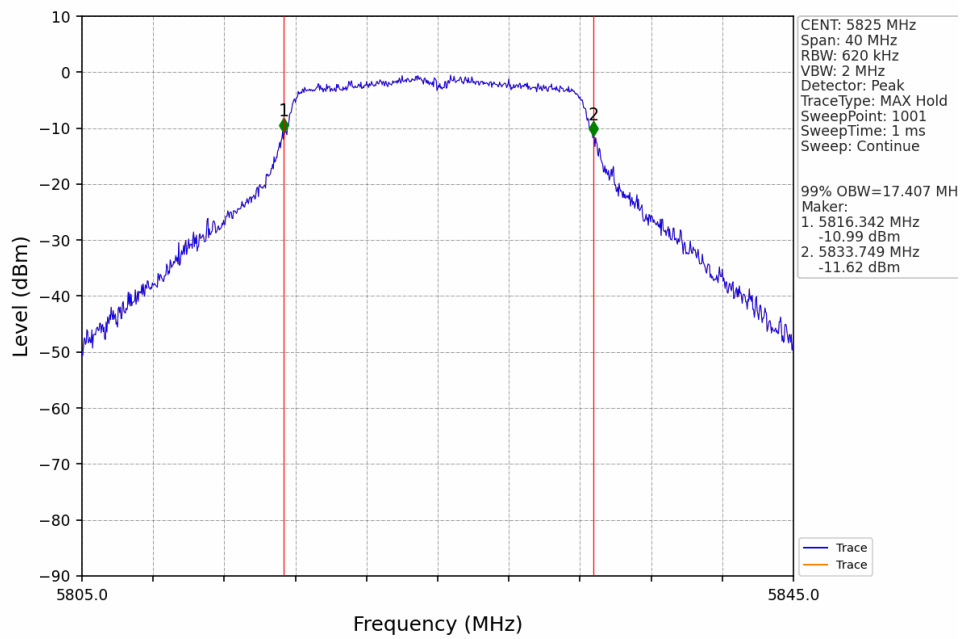
| Mode             | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------------------|---------|-----------------|-----|---------------------|------------|---------|
|                  |         |                 |     | Result              | Limit      |         |
| 802.11a          | SISO    | 5745            | 1   | 15.520              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 16.303              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 16.330              | $\geq 0.5$ | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | 1   | 17.189              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 15.745              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 16.536              | $\geq 0.5$ | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | 1   | 35.776              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | 1   | 35.761              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | 1   | 16.327              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 16.376              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 15.683              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | 1   | 35.767              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | 1   | 33.226              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT80) | SISO    | 5775            | 1   | 75.692              | $\geq 0.5$ | Pass    |

## 2.2 Test Graph

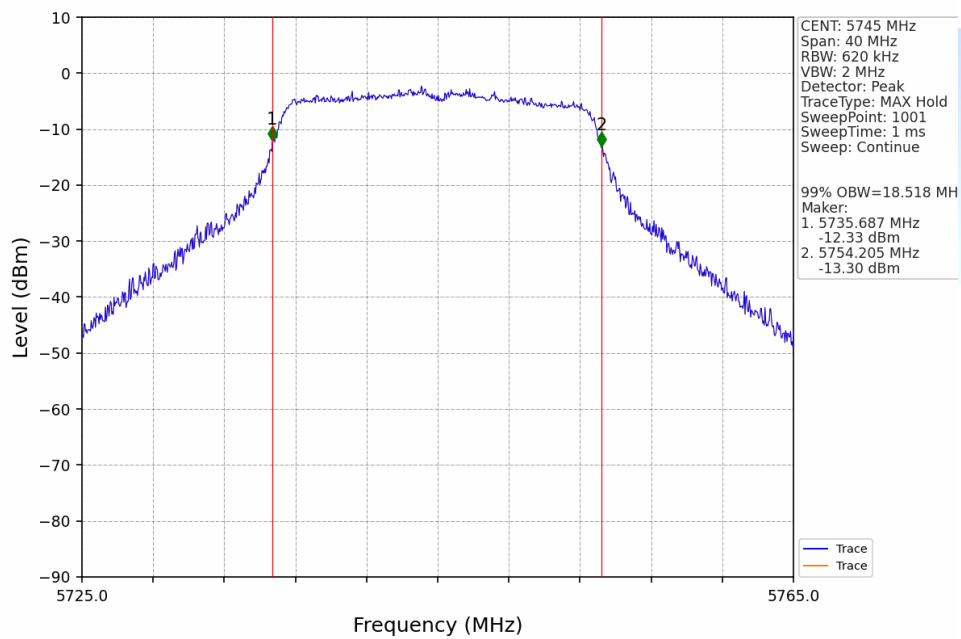
### 2.2.1 OBW



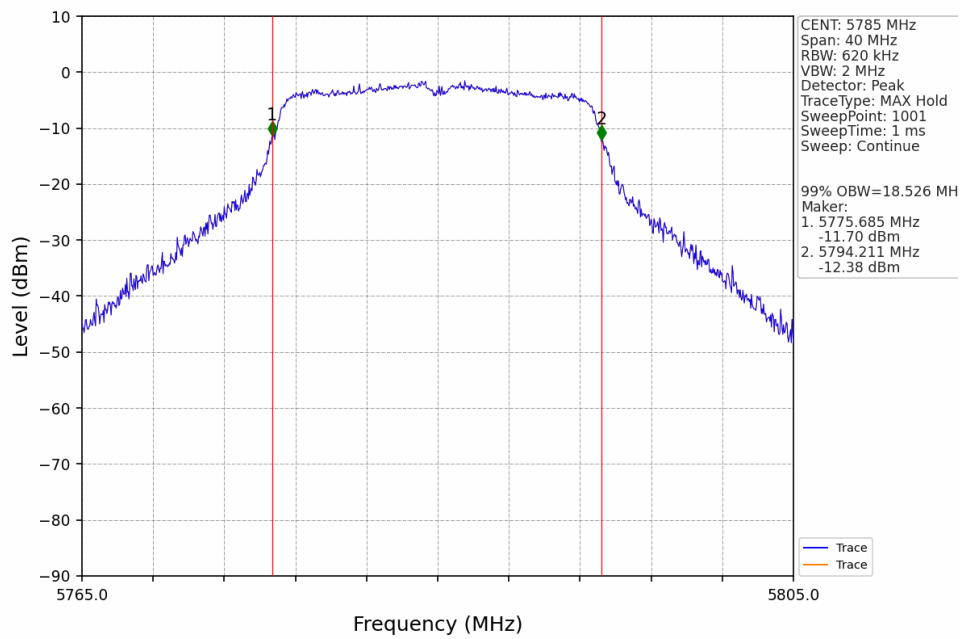
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



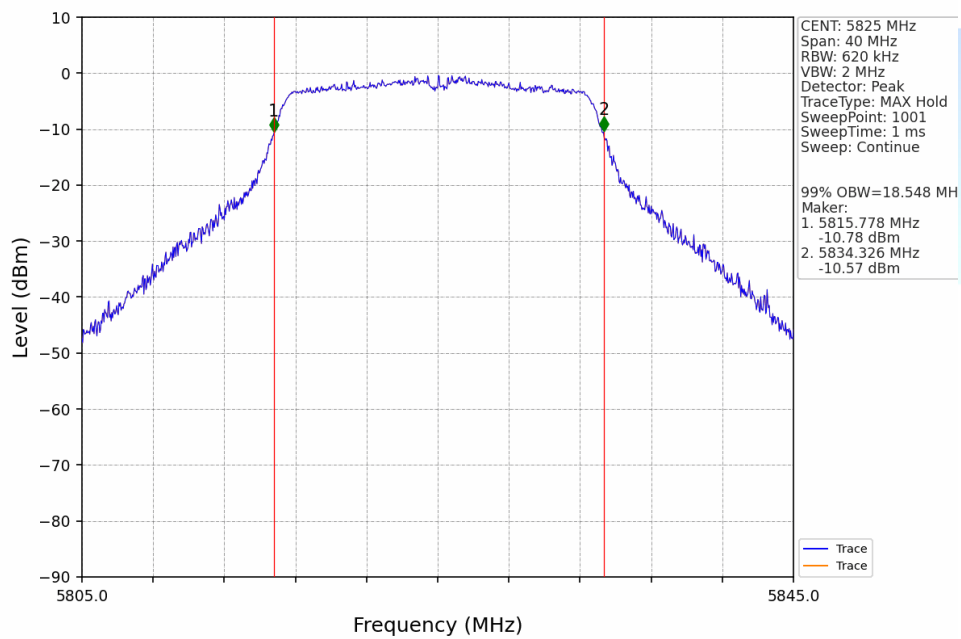
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



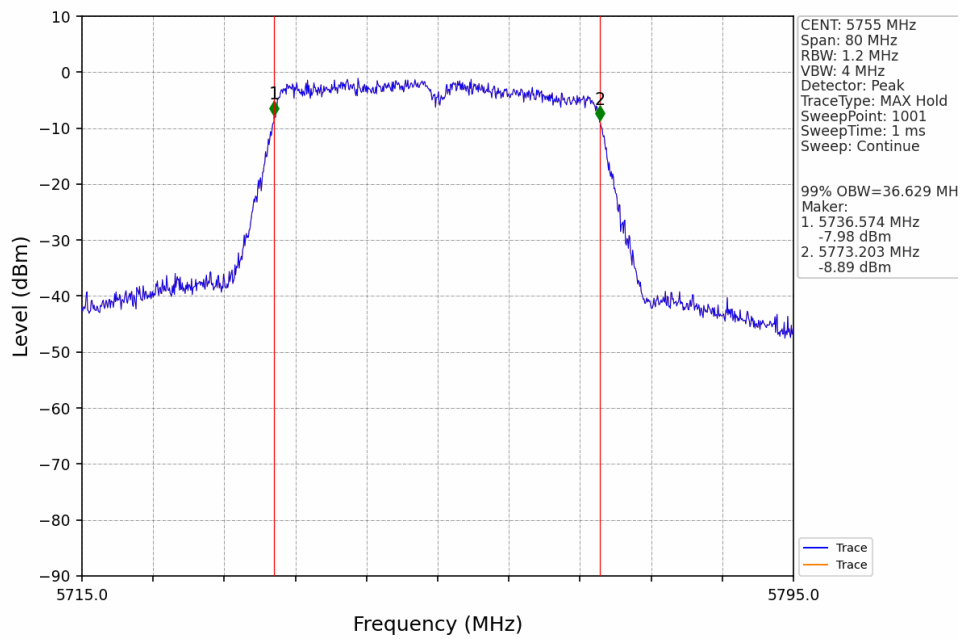
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



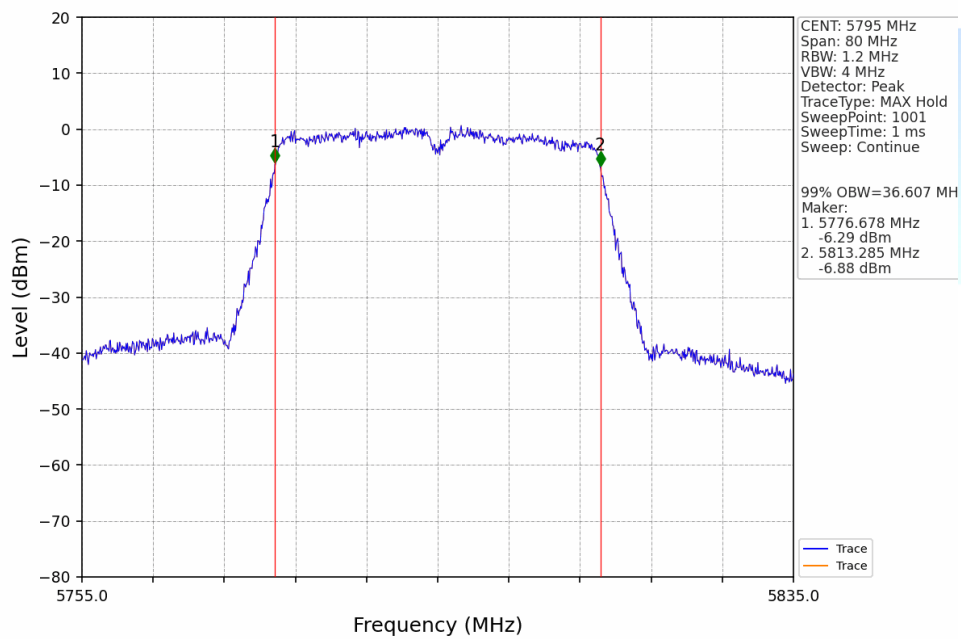
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



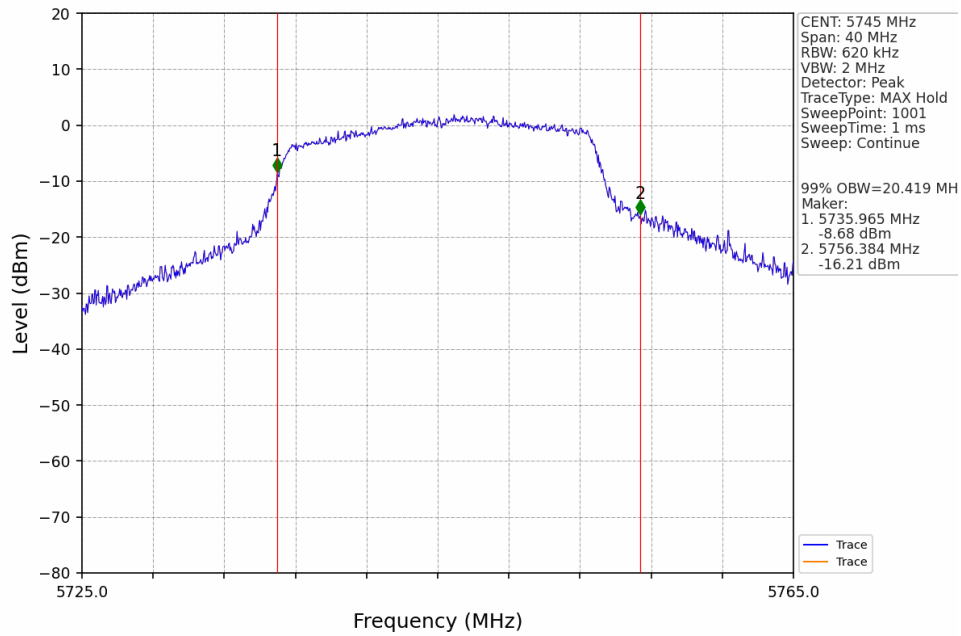
802.11n(HT40) LCH 5755MHz\_Ant1\_NTNV



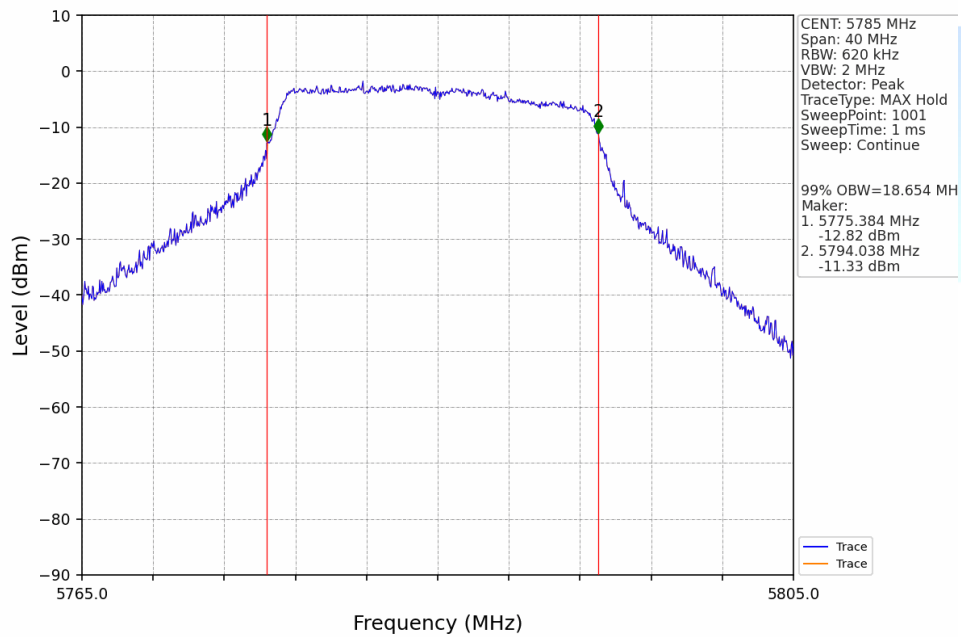
802.11n(HT40) HCH 5795MHz\_Ant1\_NTNV



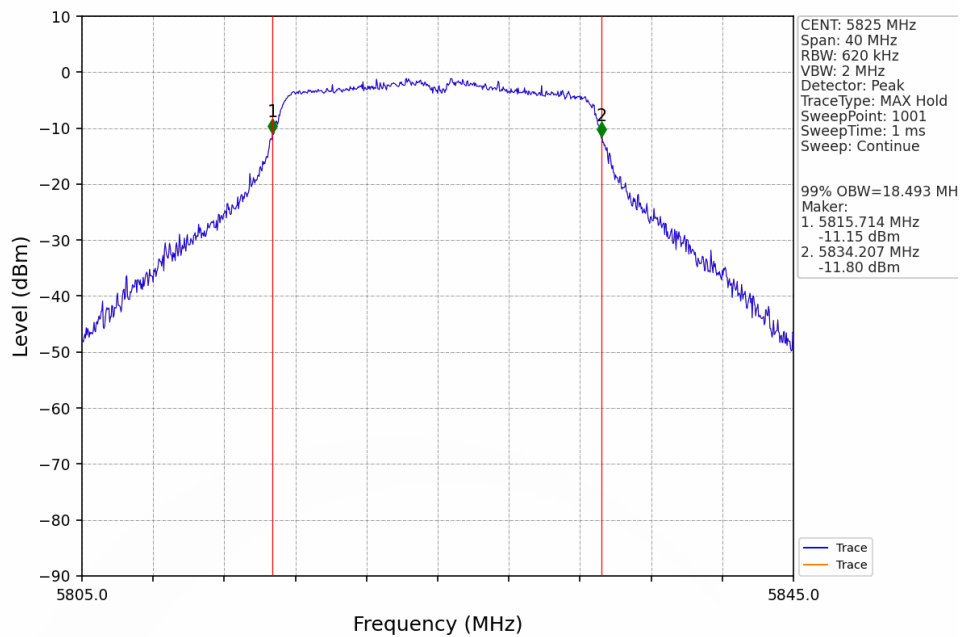
802.11ac(VHT20) LCH\_5745MHz\_Ant1\_NTNV



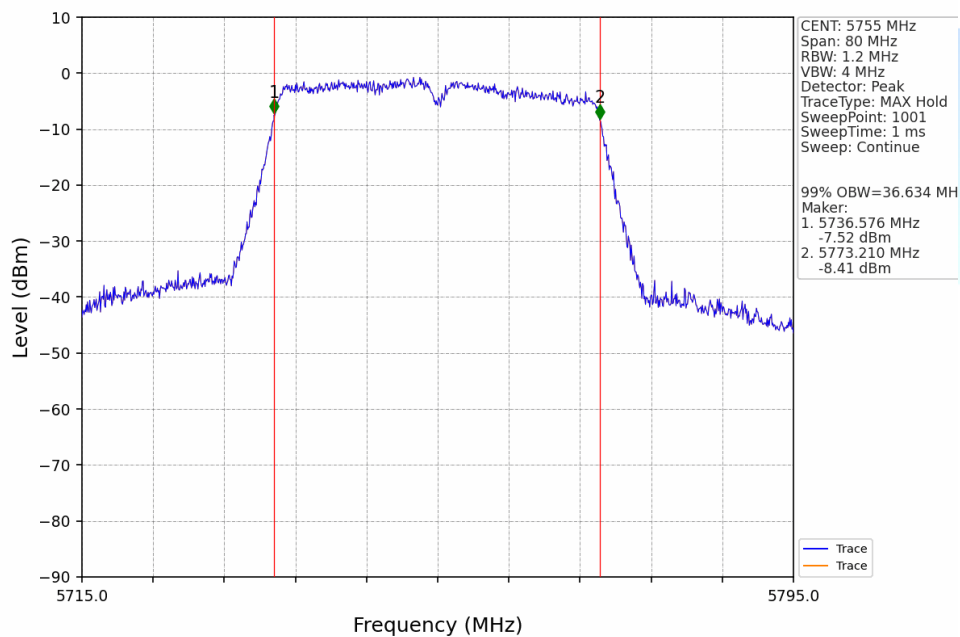
802.11ac(VHT20) MCH\_5785MHz\_Ant1\_NTNV



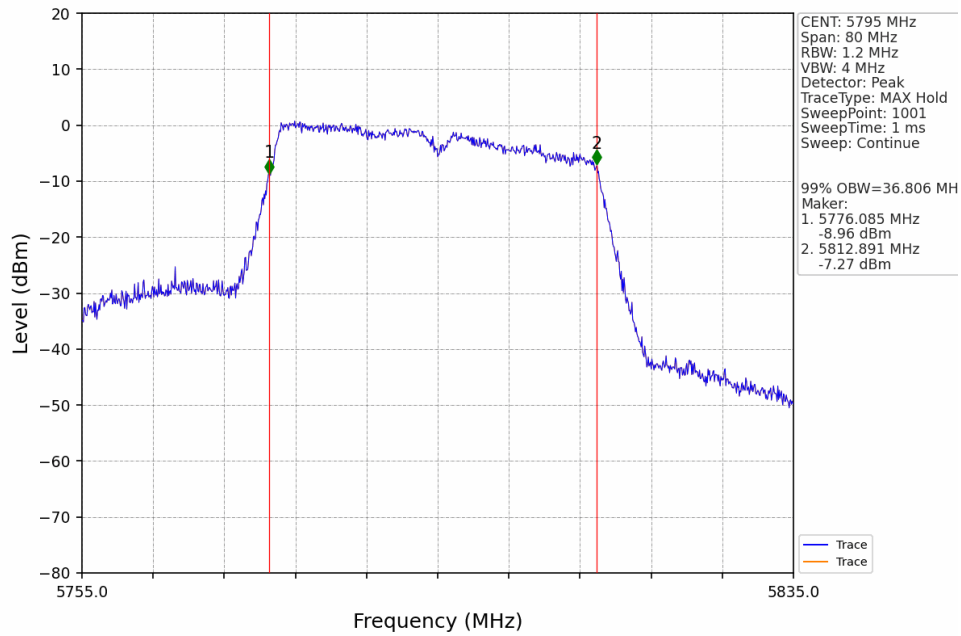
802.11ac(VHT20) HCH\_5825MHz\_Ant1\_NTNV



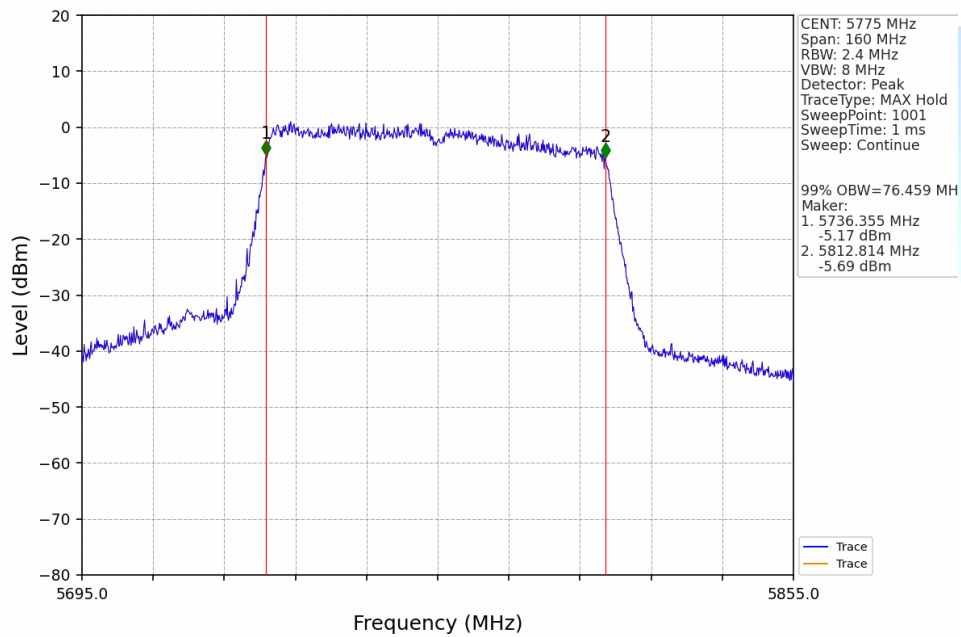
802.11ac(VHT40) LCH\_5755MHz\_Ant1\_NTNV



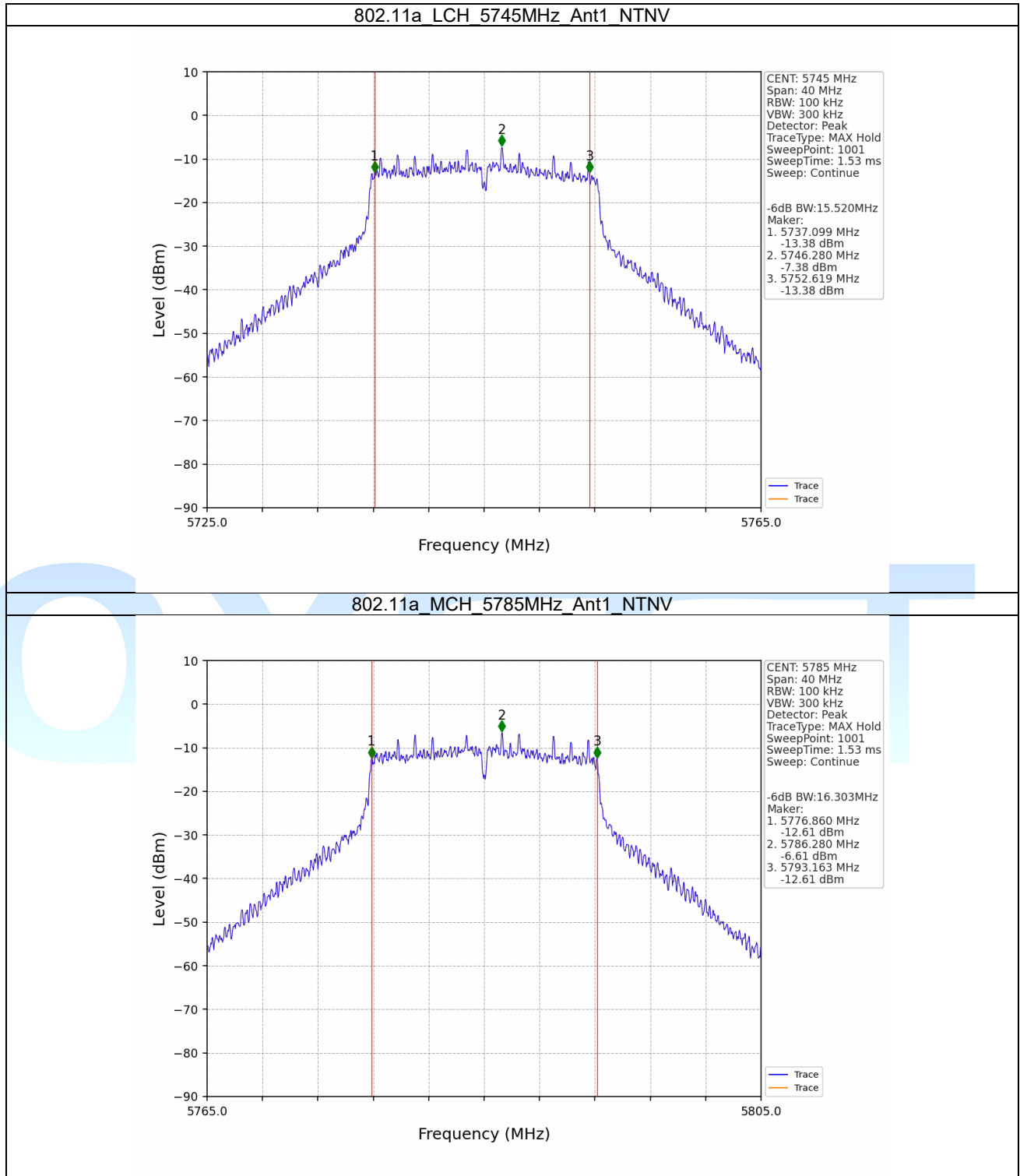
802.11ac(VHT40) HCH 5795MHz Ant1\_NTNV



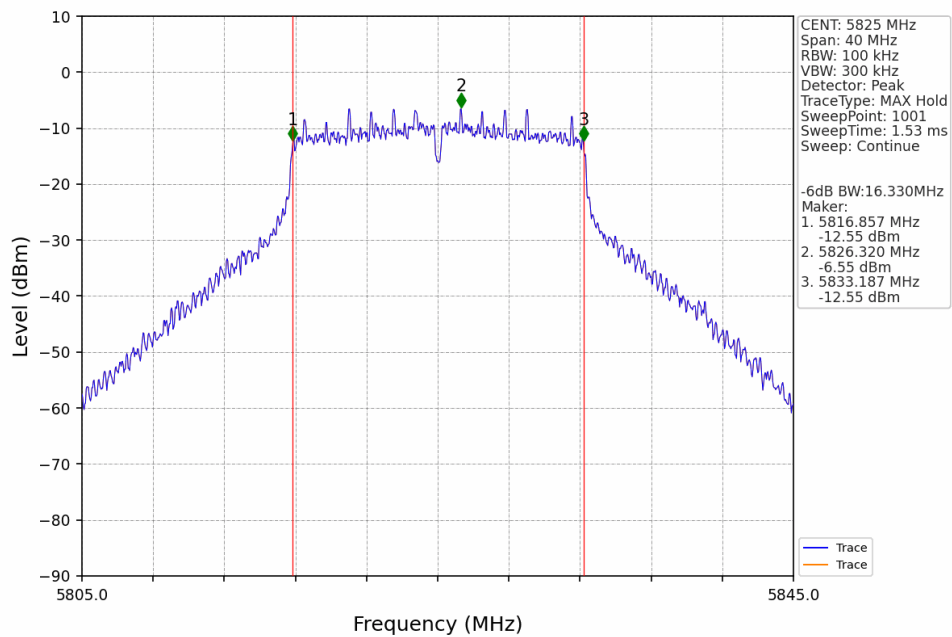
802.11ac(VHT80) MCH 5775MHz Ant1\_NTNV



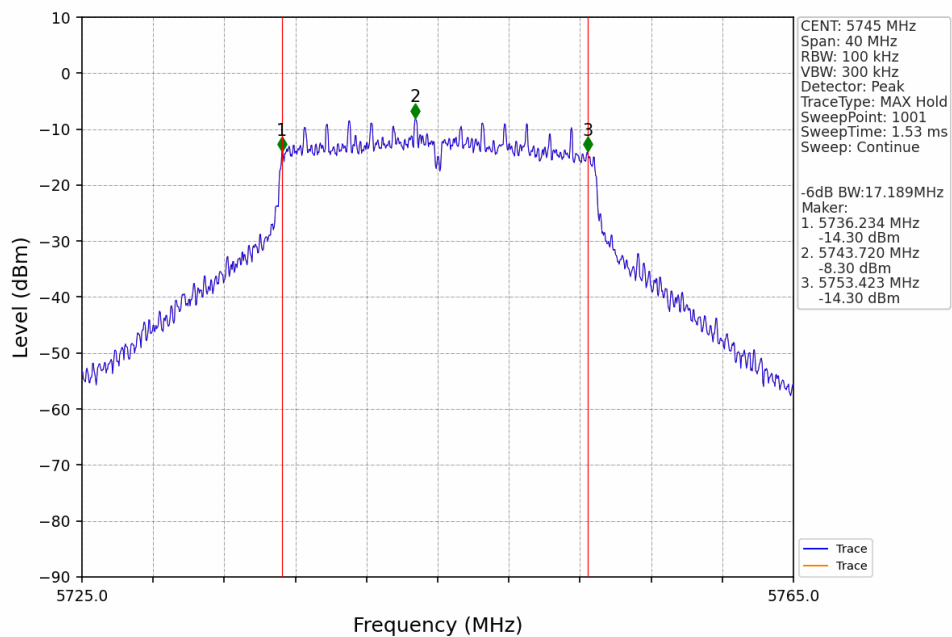
## 2.2.2 6dB BW



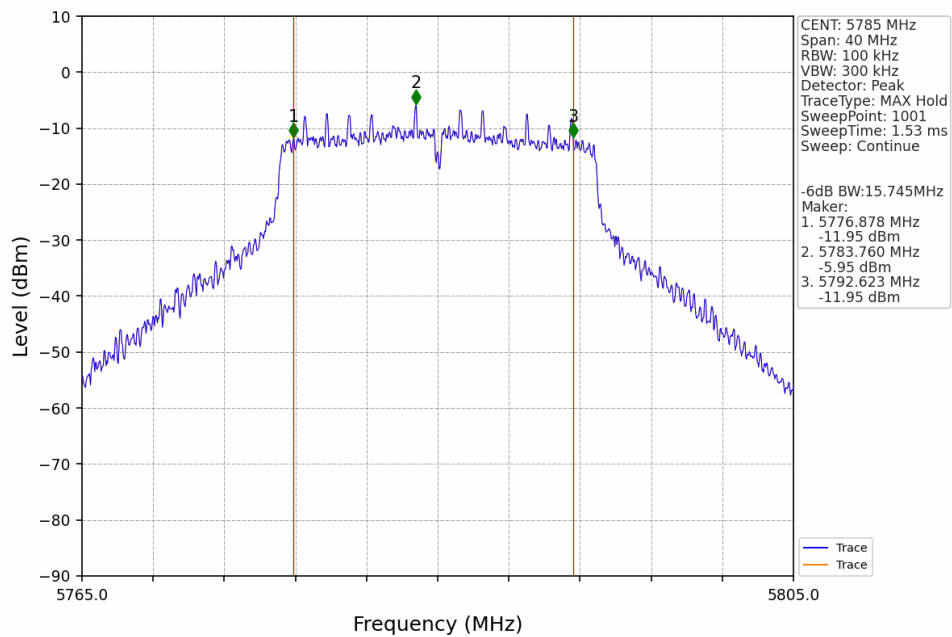
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



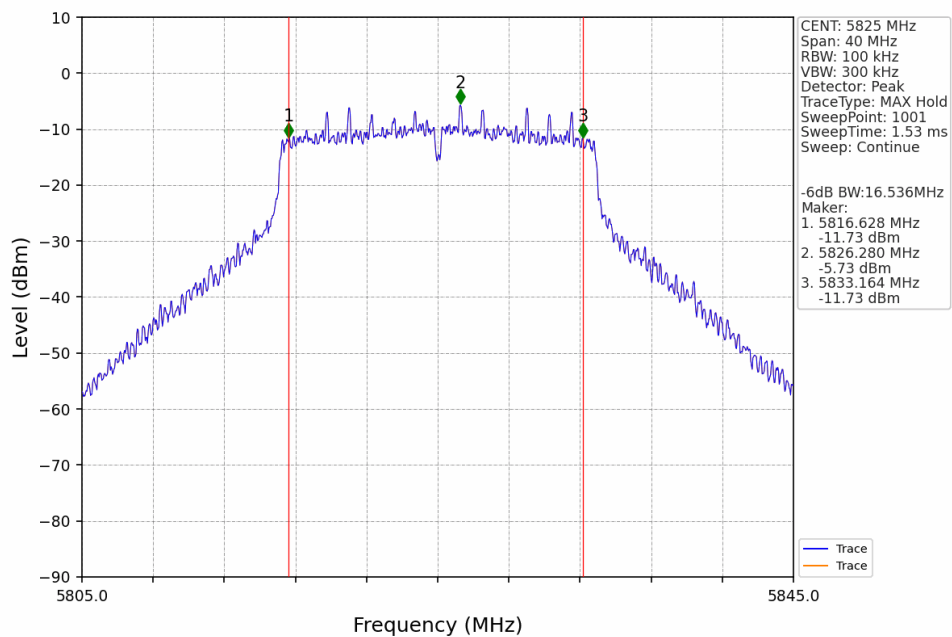
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



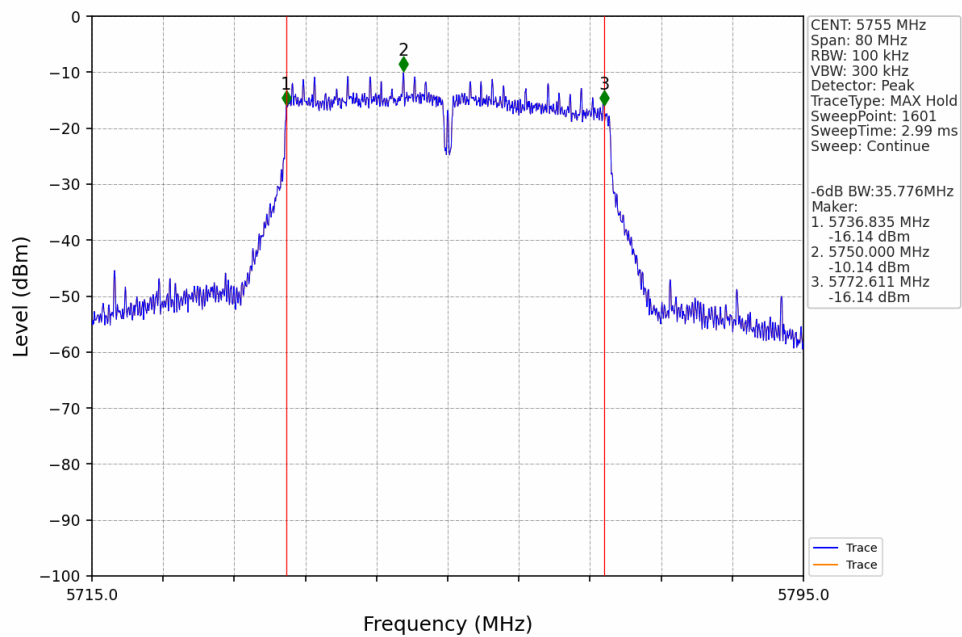
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



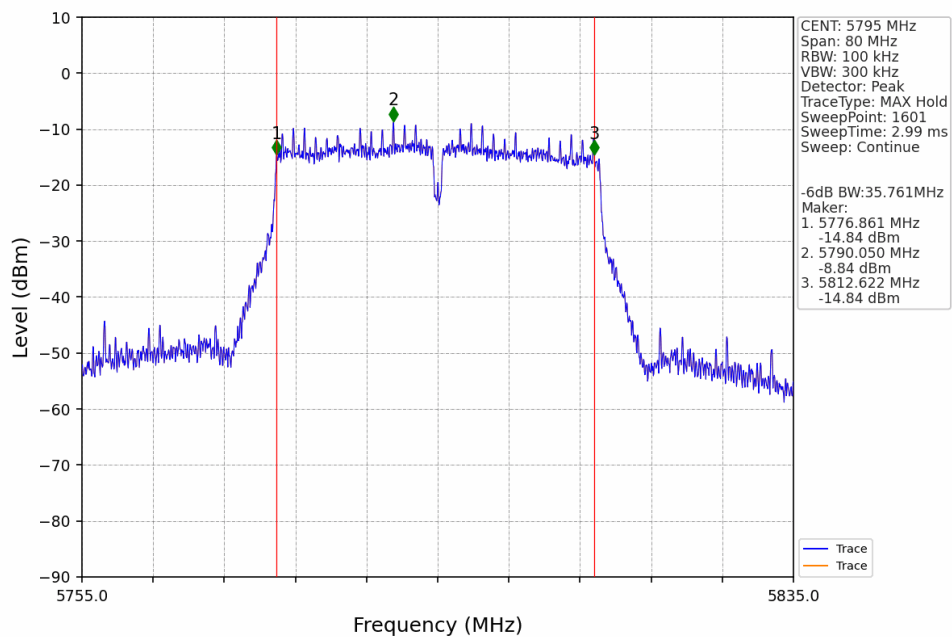
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



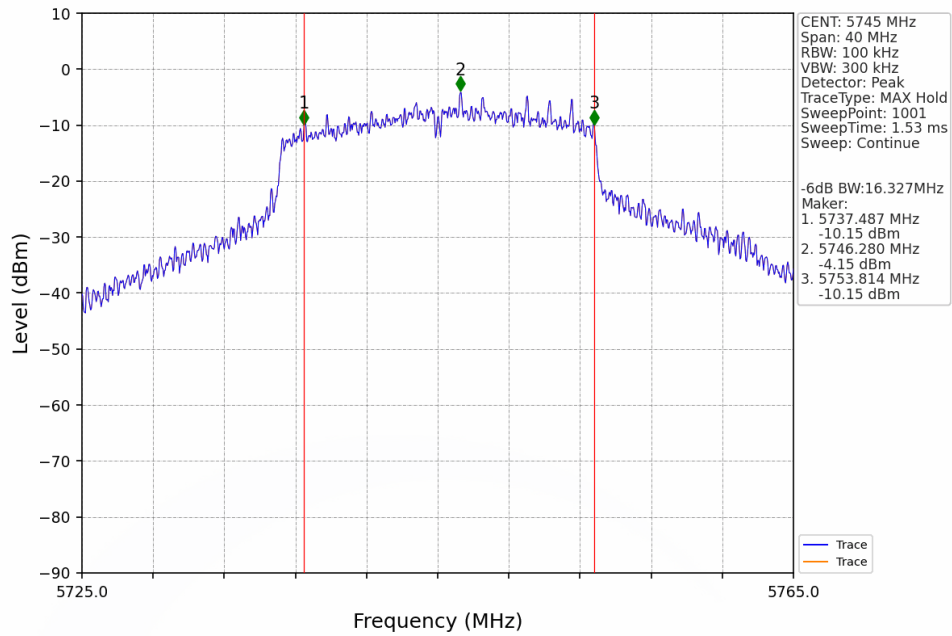
802.11n(HT40) LCH 5755MHz\_Ant1\_NTNV



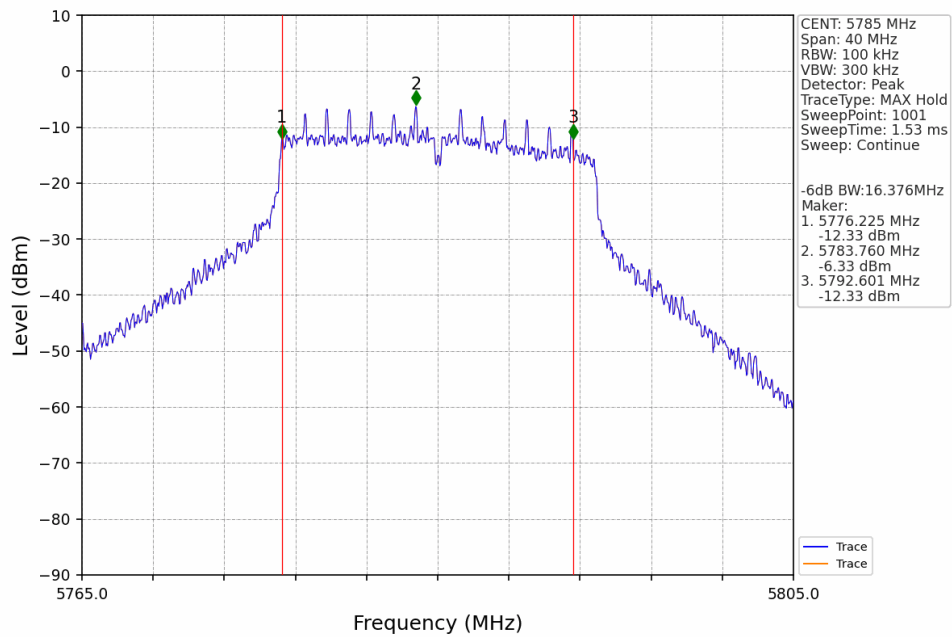
802.11n(HT40) HCH 5795MHz\_Ant1\_NTNV



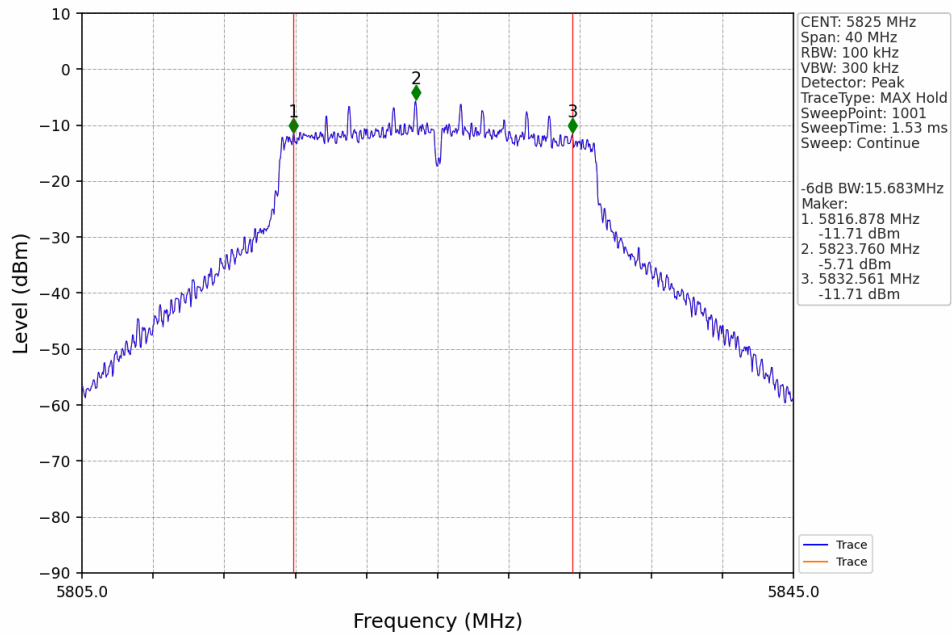
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



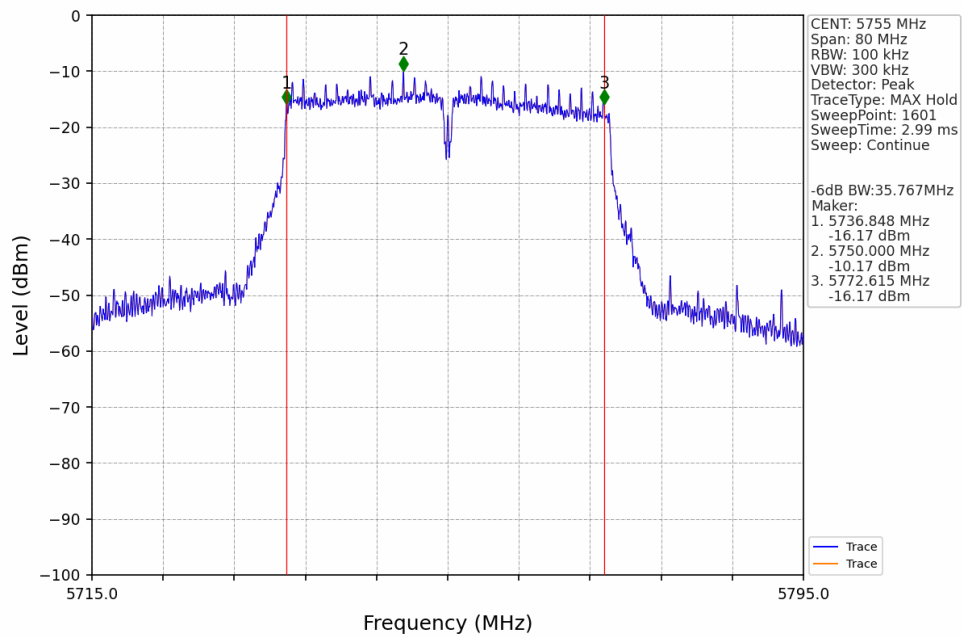
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



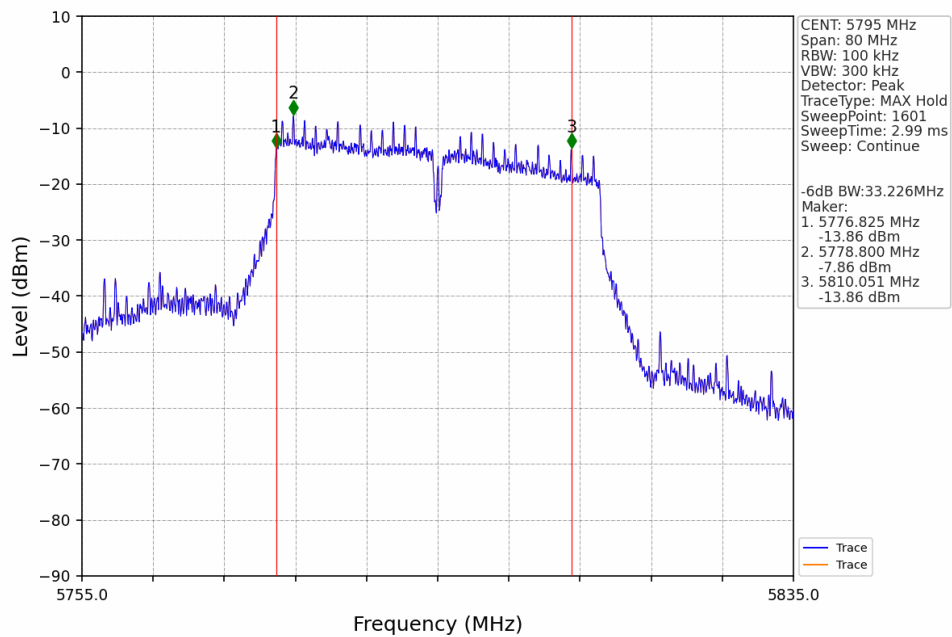
802.11ac(VHT20) HCH\_5825MHz\_Ant1\_NTNV



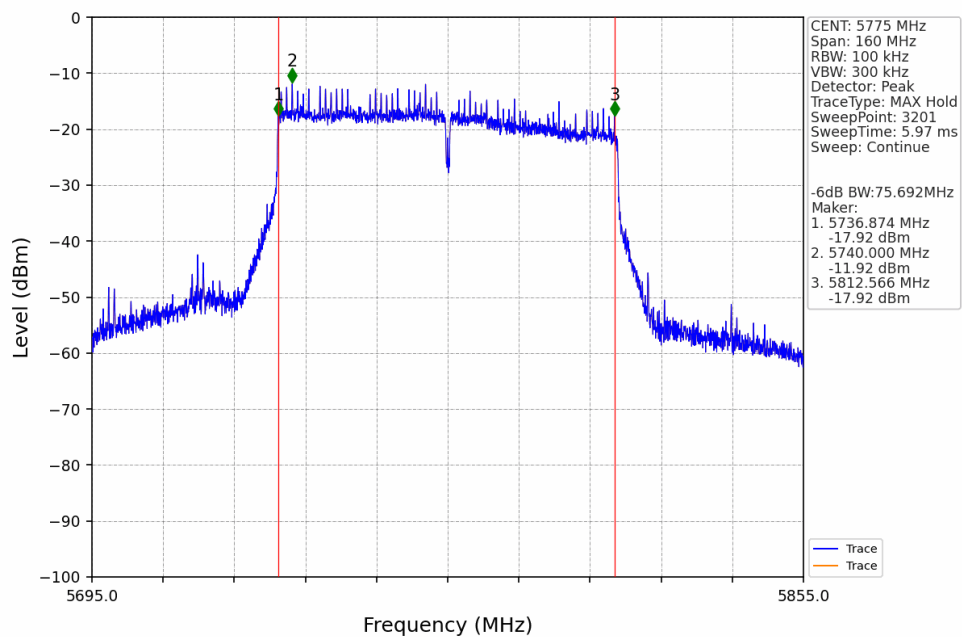
802.11ac(VHT40) LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40) HCH\_5795MHz\_Ant1\_NTNV



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



### 3. Maximum Conducted Output Power

#### 3.1 Test Result

##### 3.1.1 Power

| Mode             | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       | Verdict |
|------------------|---------|-----------------|----------------------------------------------|-------|---------|
|                  |         |                 | ANT1                                         | Limit |         |
| 802.11a          | SISO    | 5745            | 2.35                                         | <=30  | Pass    |
|                  |         | 5785            | 3.72                                         | <=30  | Pass    |
|                  |         | 5825            | 4.36                                         | <=30  | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | 2.20                                         | <=30  | Pass    |
|                  |         | 5785            | 3.50                                         | <=30  | Pass    |
|                  |         | 5825            | 4.45                                         | <=30  | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | 3.16                                         | <=30  | Pass    |
|                  |         | 5795            | 4.56                                         | <=30  | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | 6.08                                         | <=30  | Pass    |
|                  |         | 5785            | 2.70                                         | <=30  | Pass    |
|                  |         | 5825            | 3.73                                         | <=30  | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | 3.17                                         | <=30  | Pass    |
|                  |         | 5795            | 3.77                                         | <=30  | Pass    |
| 802.11ac (VHT80) | SISO    | 5775            | 3.68                                         | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 2.00dBi;

## 4. Maximum Power Spectral Density

### 4.1 Test Result

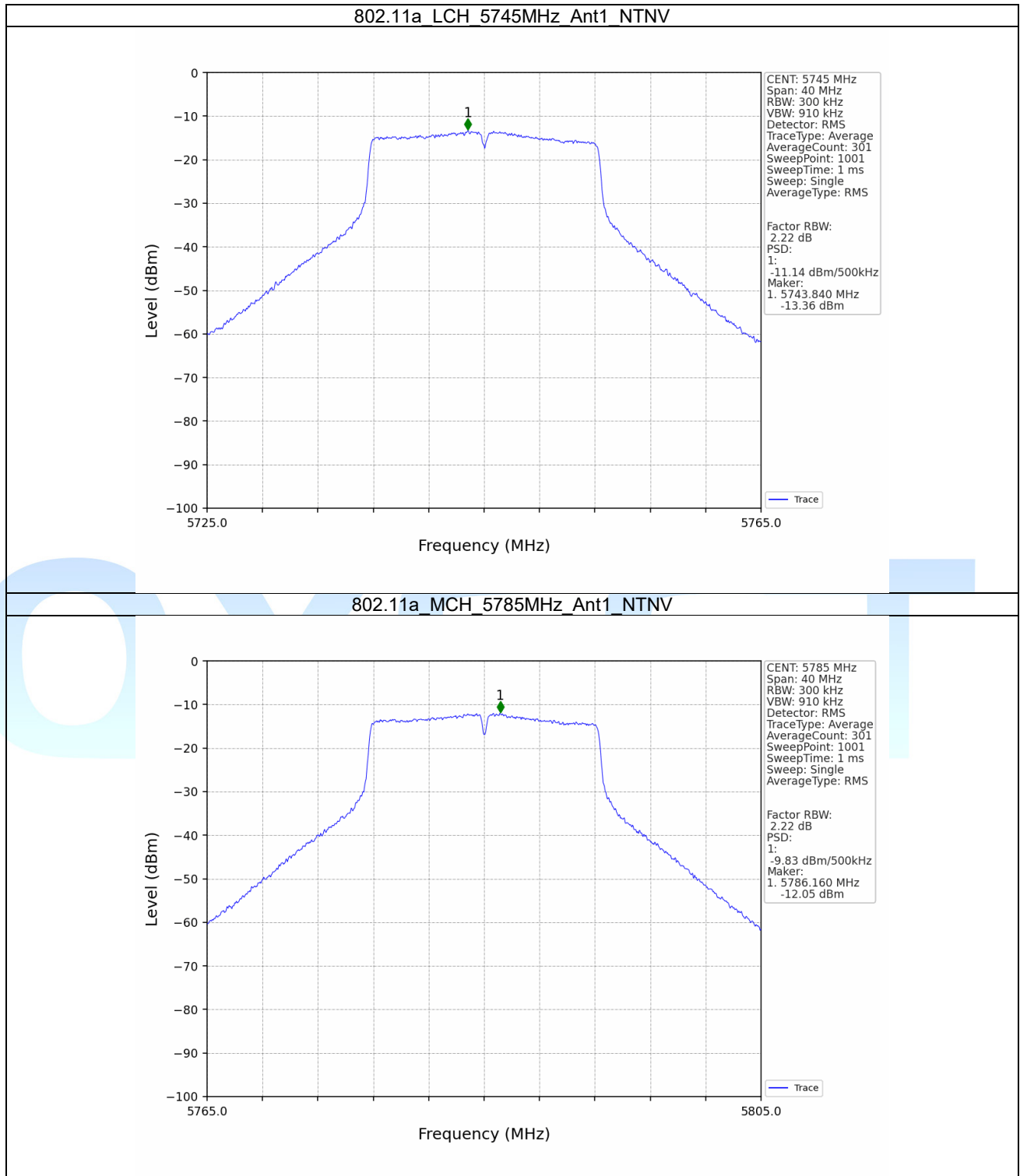
#### 4.1.1 PSD

| Mode             | TX Type | Frequency (MHz) | Maximum PSD (dBm/500kHz) |       | Verdict |
|------------------|---------|-----------------|--------------------------|-------|---------|
|                  |         |                 | ANT1                     | Limit |         |
| 802.11a          | SISO    | 5745            | -11.14                   | <=30  | Pass    |
|                  |         | 5785            | -9.83                    | <=30  | Pass    |
|                  |         | 5825            | -9.09                    | <=30  | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | -11.64                   | <=30  | Pass    |
|                  |         | 5785            | -10.06                   | <=30  | Pass    |
|                  |         | 5825            | -9.33                    | <=30  | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | -13.55                   | <=30  | Pass    |
|                  |         | 5795            | -12.24                   | <=30  | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | -7.29                    | <=30  | Pass    |
|                  |         | 5785            | -11.04                   | <=30  | Pass    |
|                  |         | 5825            | -10.07                   | <=30  | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | -13.72                   | <=30  | Pass    |
|                  |         | 5795            | -11.67                   | <=30  | Pass    |
| 802.11ac (VHT80) | SISO    | 5775            | -15.77                   | <=30  | Pass    |

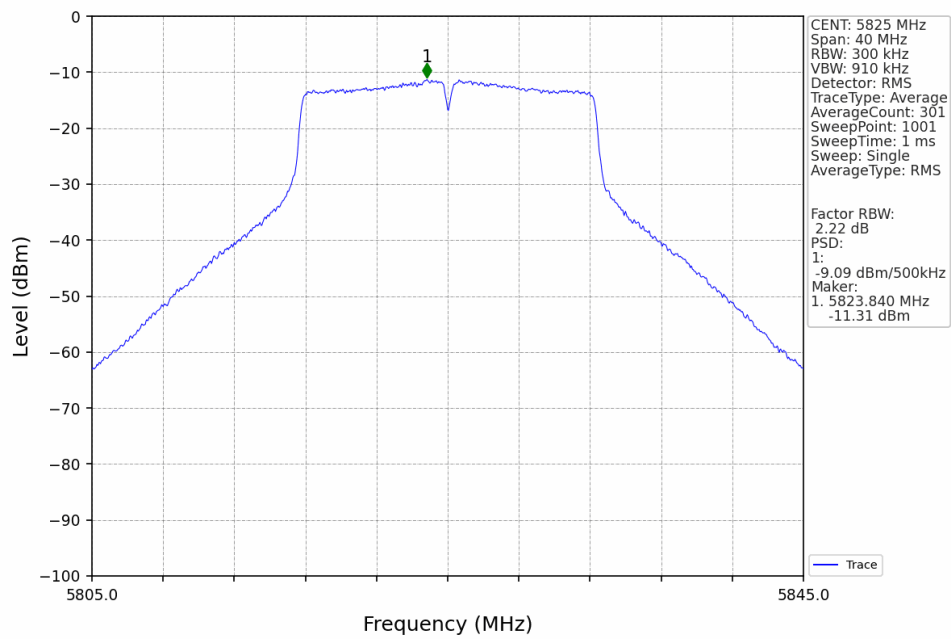
Note1: Antenna Gain: Ant1: 2.00dBi;  
Note2: Test result contains DCCF and RBW Factor(=10\*log(500kHz/300kHz=2.22)

## 4.2 Test Graph

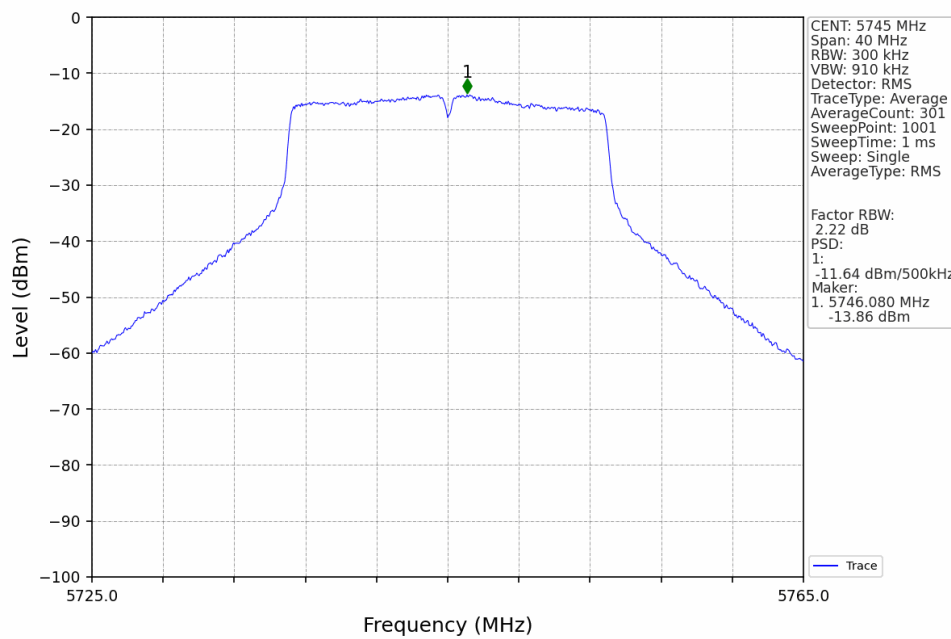
### 4.2.1 PSD



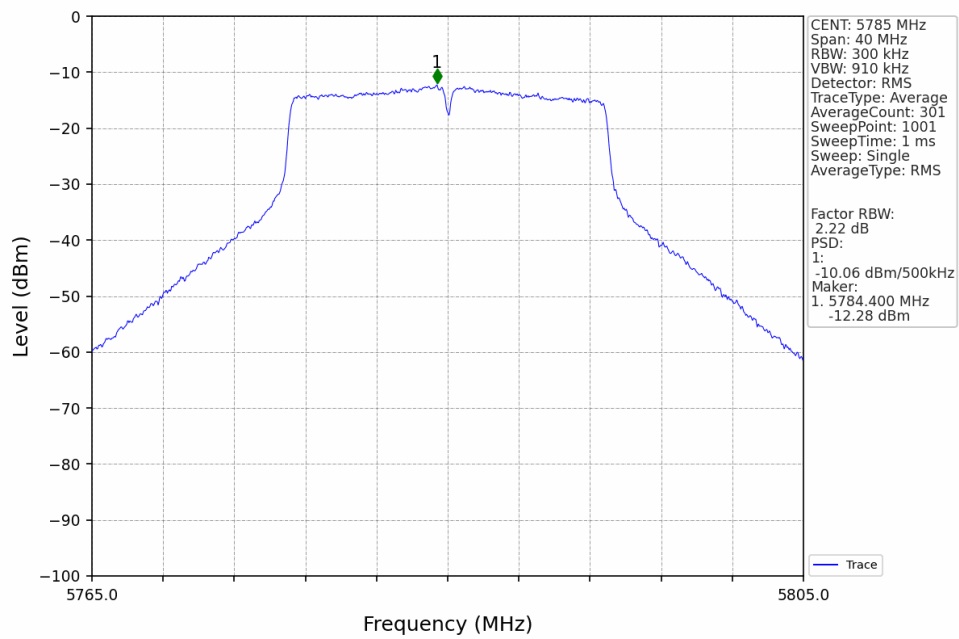
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



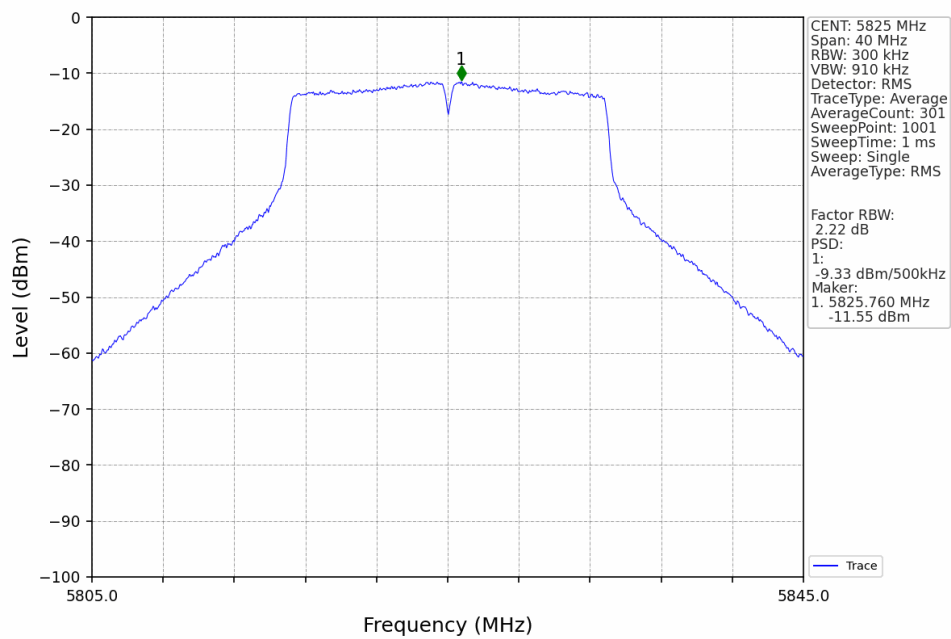
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



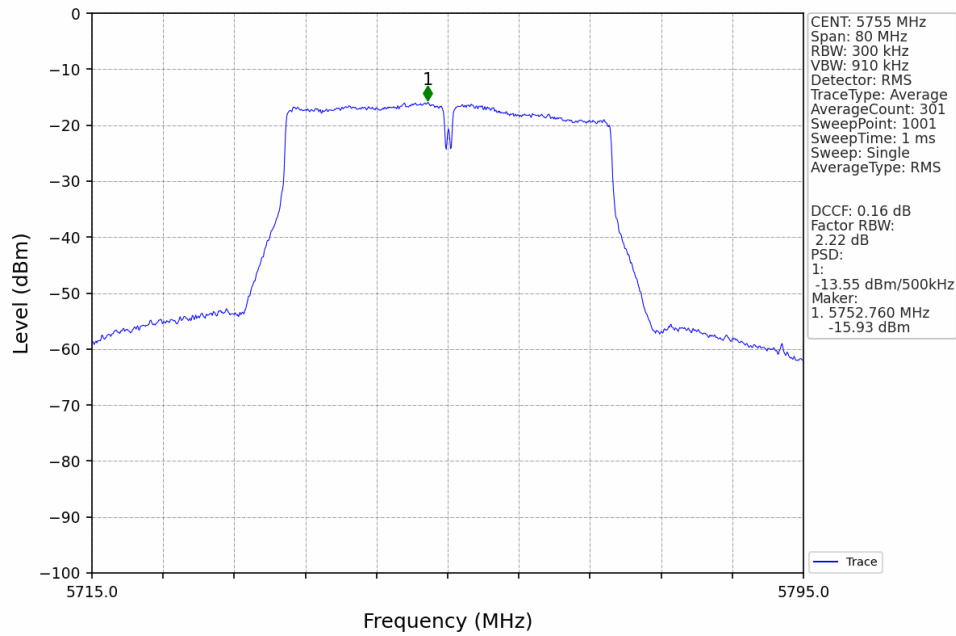
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



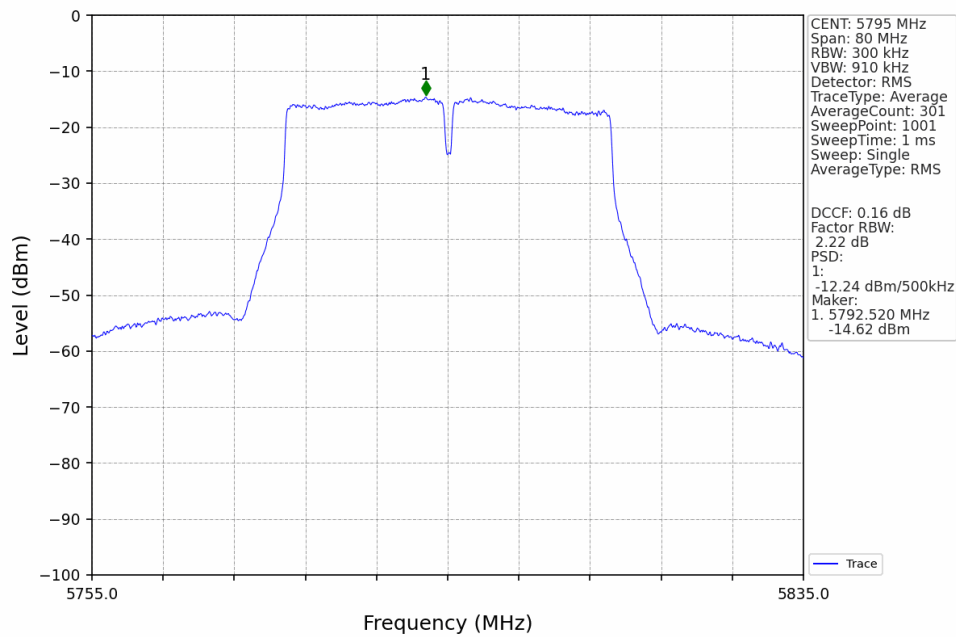
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



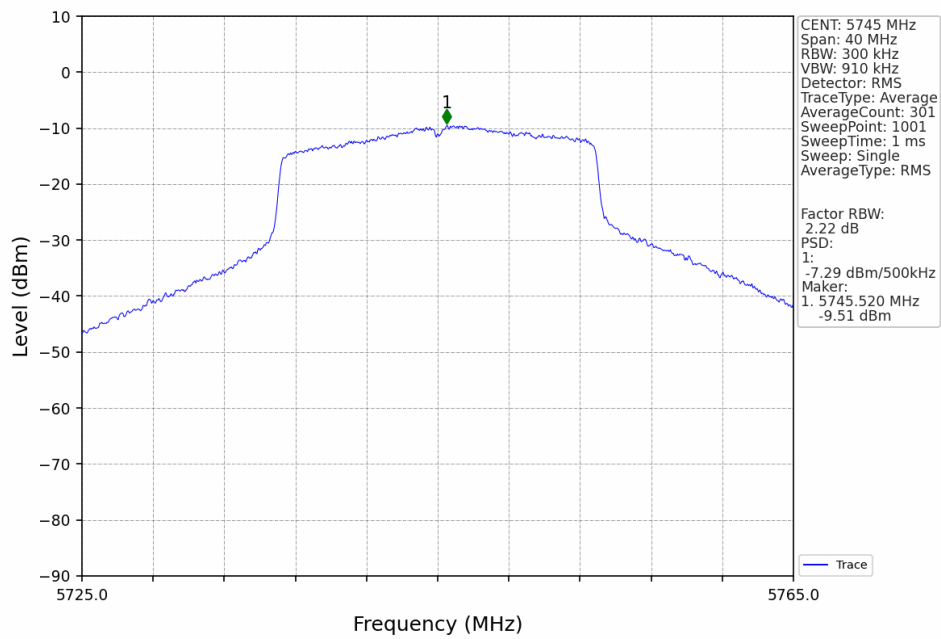
802.11n(HT40) LCH 5755MHz\_Ant1\_NTNV



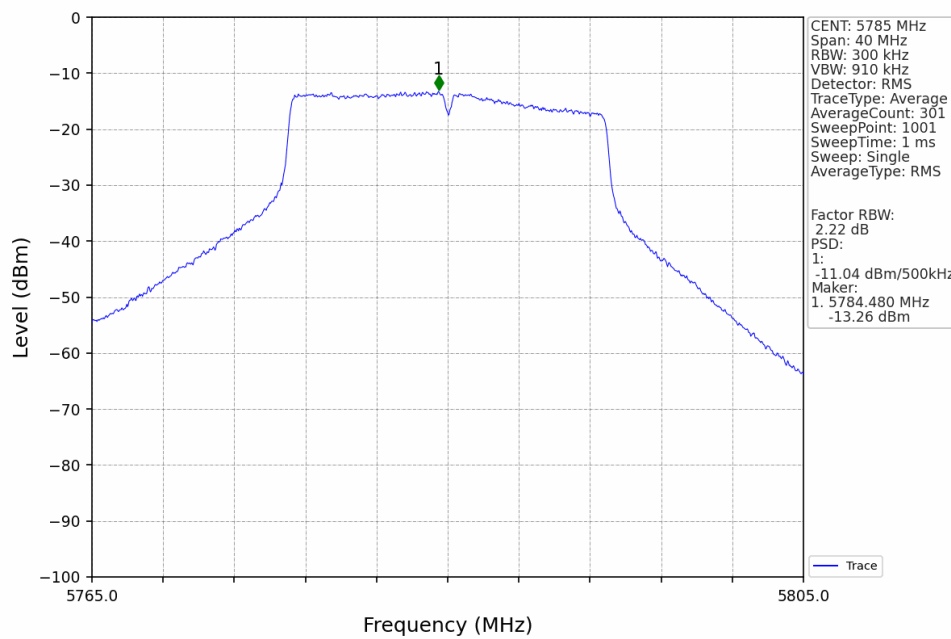
802.11n(HT40) HCH 5795MHz\_Ant1\_NTNV



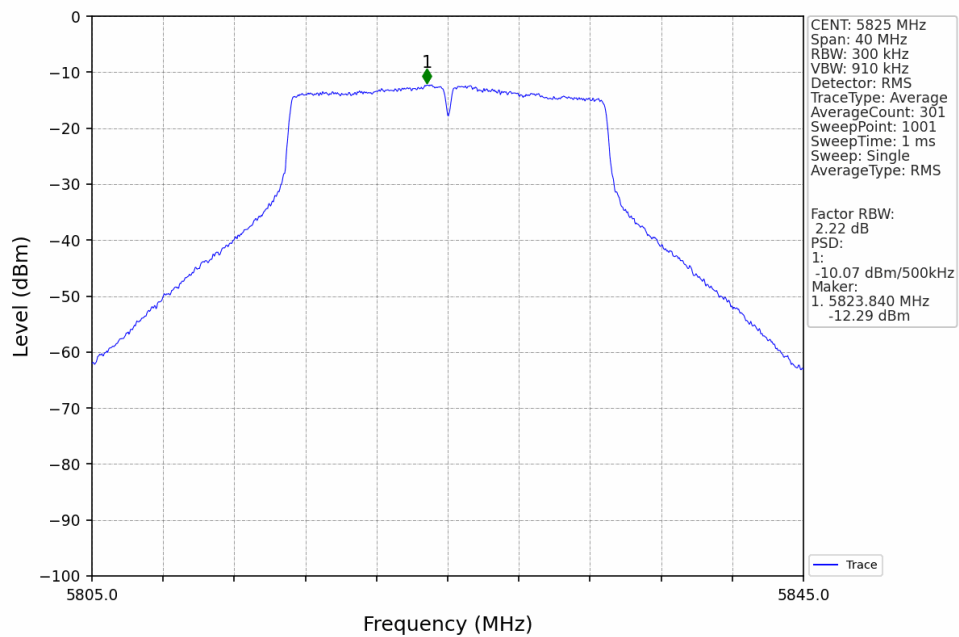
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



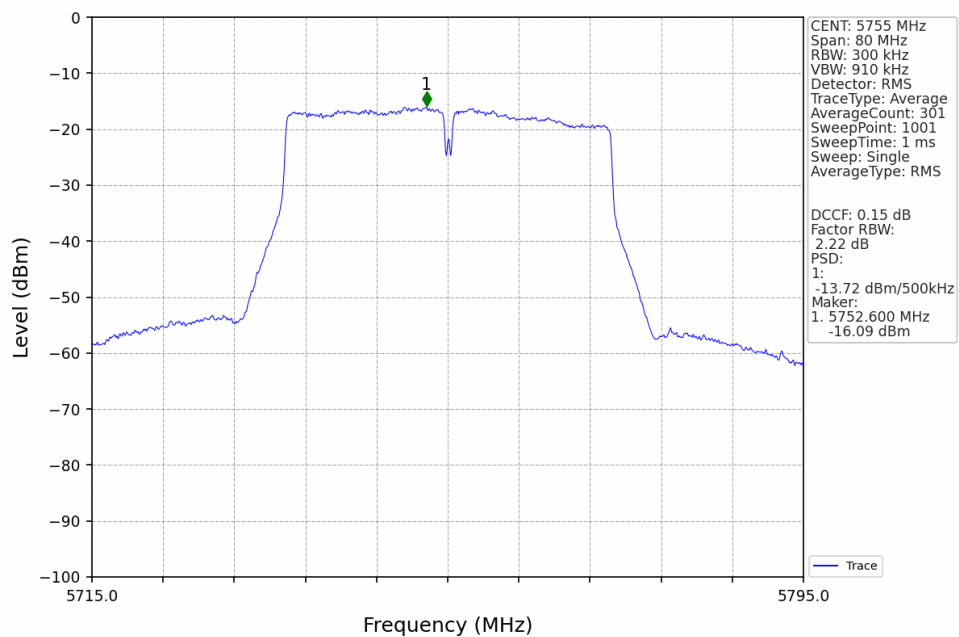
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



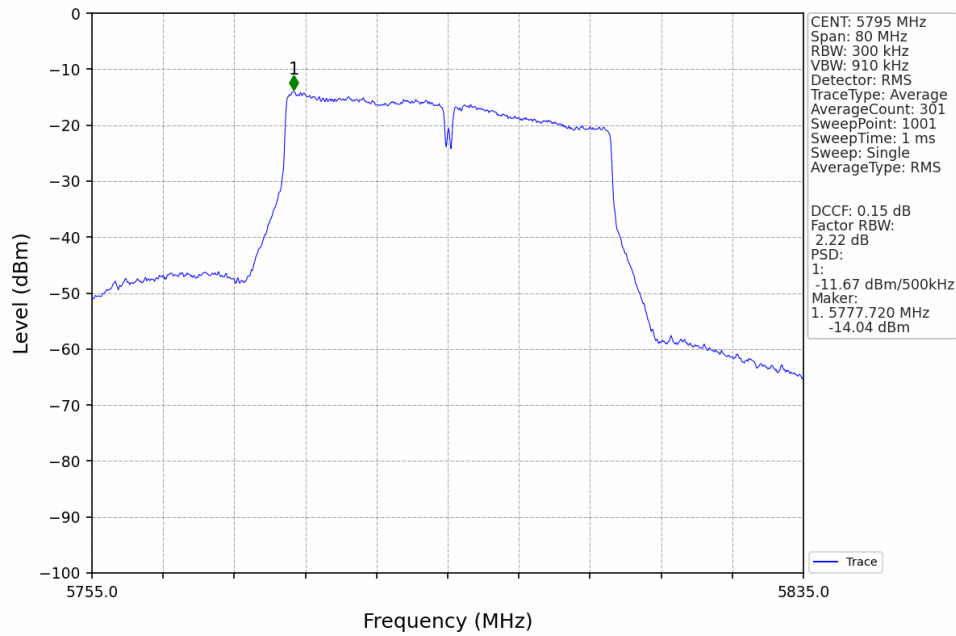
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



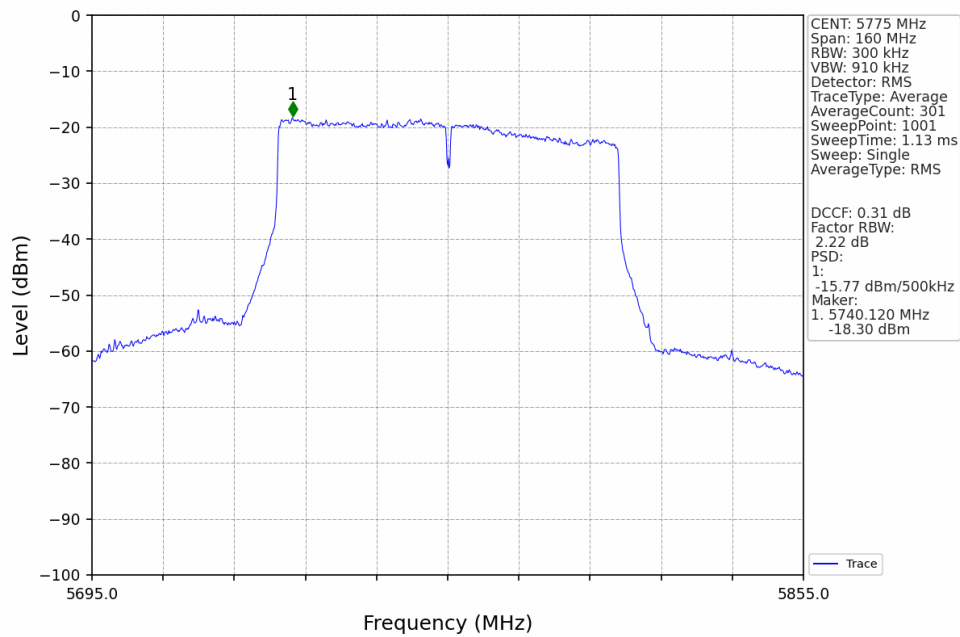
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40) HCH 5795MHz\_Ant1\_NTNV



802.11ac(VHT80) MCH 5775MHz\_Ant1\_NTNV



## 5. Unwanted Emissions In Restricted Frequency Bands

### 5.1 Test Result

#### 5.1.1 RSE

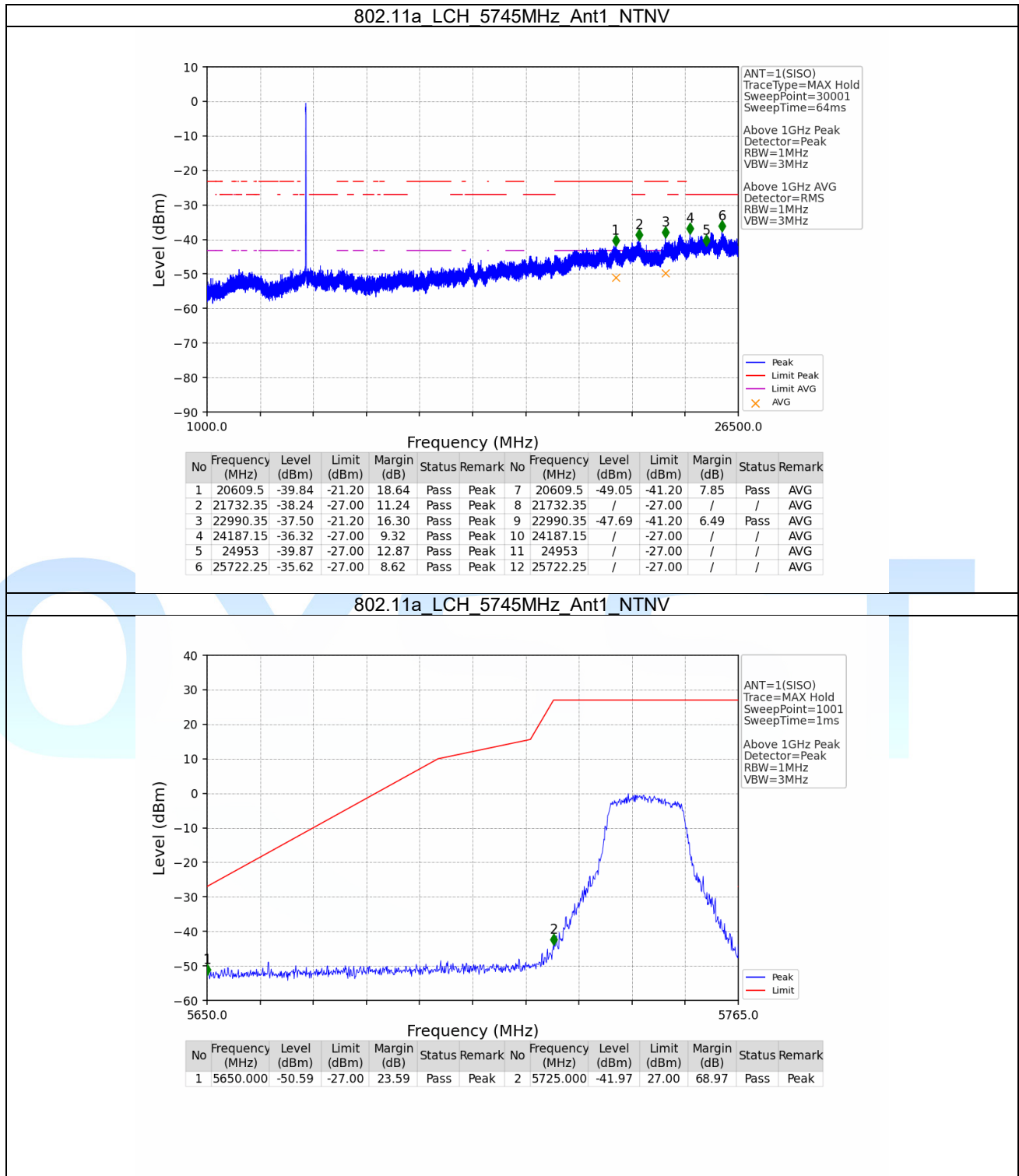
| Mode             | TX Type | Frequency (MHz) | ANT | Level of Unwanted Emissions (dBm) |       | Verdict |
|------------------|---------|-----------------|-----|-----------------------------------|-------|---------|
|                  |         |                 |     | Result                            | Limit |         |
| 802.11a          | SISO    | 5745            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5785            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5825            | 1   | Refer To Test Graph               |       | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5785            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5825            | 1   | Refer To Test Graph               |       | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5795            | 1   | Refer To Test Graph               |       | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5785            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5825            | 1   | Refer To Test Graph               |       | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5795            | 1   | Refer To Test Graph               |       | Pass    |
| 802.11ac (VHT80) | SISO    | 5775            | 1   | Refer To Test Graph               |       | Pass    |

Note1: level contains DCCF and antenna gain

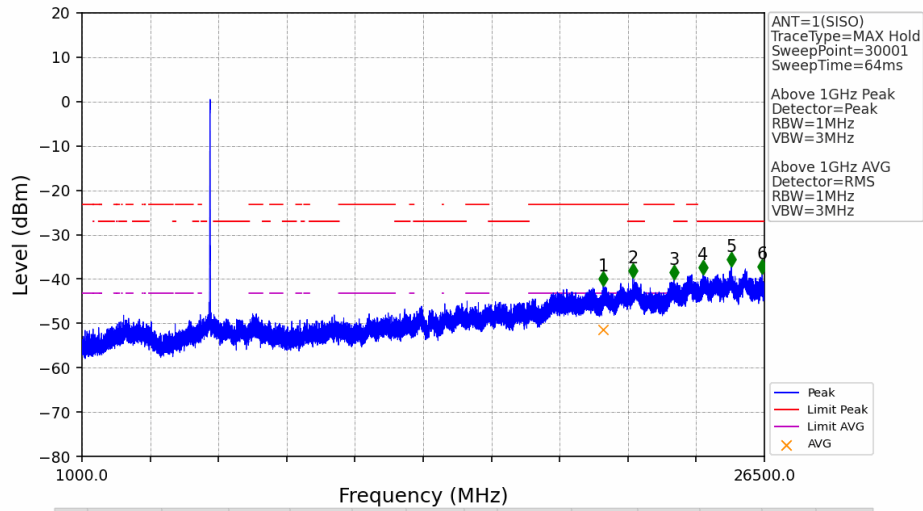
Note2: Margin=Limit- level

## 5.2 Test Graph

### 5.2.1 RSE

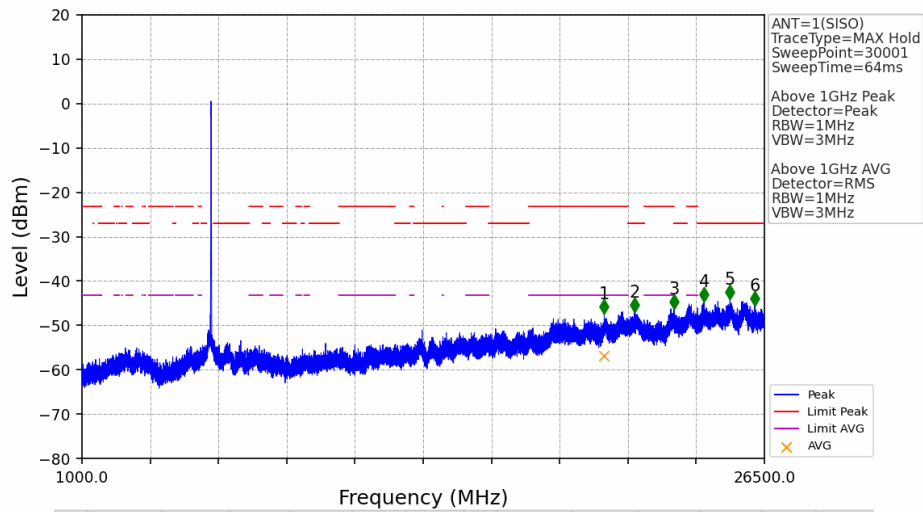


## 802.11a\_MCH\_5785MHz\_Ant1\_NTNV

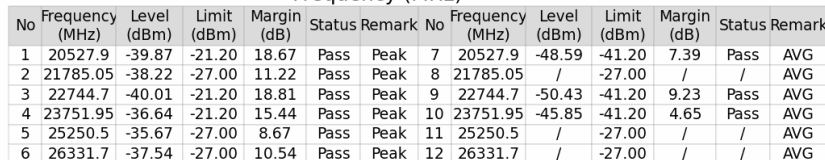
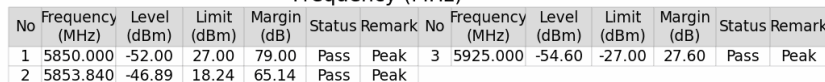


| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 20476.9         | -39.53      | -21.20      | 18.33       | Pass   | Peak   | 7  | 20476.9         | -49.37      | -41.20      | 8.17        | Pass   | AVG    |
| 2  | 21577.65        | -37.64      | -27.00      | 10.64       | Pass   | Peak   | 8  | 21577.65        | /           | -27.00      | /           | /      | AVG    |
| 3  | 23121.25        | -37.97      | -27.00      | 10.97       | Pass   | Peak   | 9  | 23121.25        | /           | -27.00      | /           | /      | AVG    |
| 4  | 24210.1         | -36.97      | -27.00      | 9.97        | Pass   | Peak   | 10 | 24210.1         | /           | -27.00      | /           | /      | AVG    |
| 5  | 25264.95        | -35.07      | -27.00      | 8.07        | Pass   | Peak   | 11 | 25264.95        | /           | -27.00      | /           | /      | AVG    |
| 6  | 26413.3         | -36.79      | -27.00      | 9.79        | Pass   | Peak   | 12 | 26413.3         | /           | -27.00      | /           | /      | AVG    |

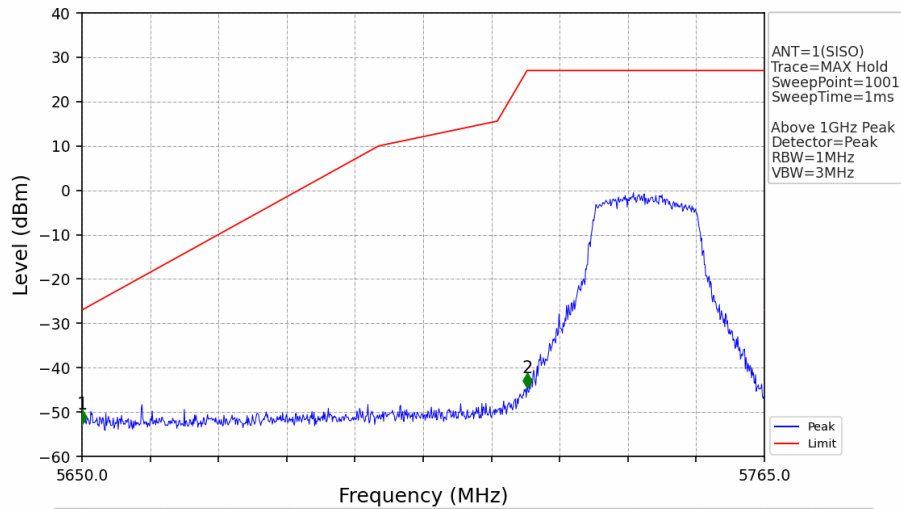
## 802.11a\_HCH\_5825MHz\_Ant1\_NTNV



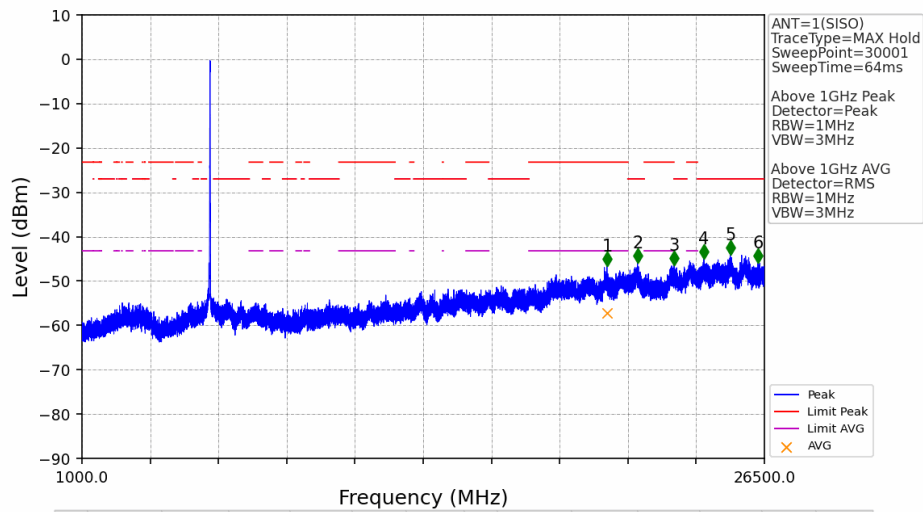
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 20516           | -45.30      | -21.20      | 24.10       | Pass   | Peak   | 7  | 20516           | -54.78      | -41.20      | 13.58       | Pass   | AVG    |
| 2  | 21646.5         | -44.93      | -27.00      | 17.93       | Pass   | Peak   | 8  | 21646.5         | /           | -27.00      | /           | /      | AVG    |
| 3  | 23134.85        | -44.18      | -27.00      | 17.18       | Pass   | Peak   | 9  | 23134.85        | /           | -27.00      | /           | /      | AVG    |
| 4  | 24243.25        | -42.60      | -27.00      | 15.60       | Pass   | Peak   | 10 | 24243.25        | /           | -27.00      | /           | /      | AVG    |
| 5  | 25213.1         | -42.00      | -27.00      | 15.00       | Pass   | Peak   | 11 | 25213.1         | /           | -27.00      | /           | /      | AVG    |
| 6  | 26137.9         | -43.57      | -27.00      | 16.57       | Pass   | Peak   | 12 | 26137.9         | /           | -27.00      | /           | /      | AVG    |



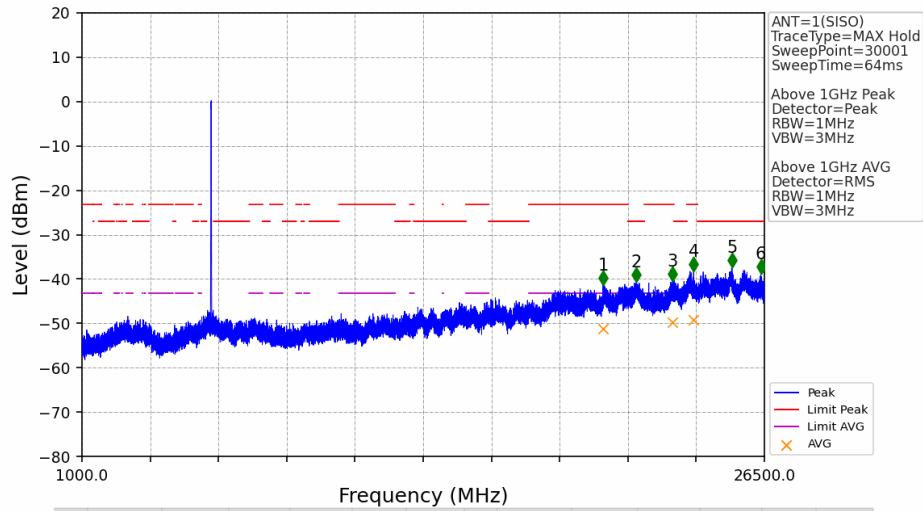
## 802.11n(HT20) LCH\_5745MHz\_Ant1\_NTNV



## 802.11n(HT20) MCH\_5785MHz\_Ant1\_NTNV

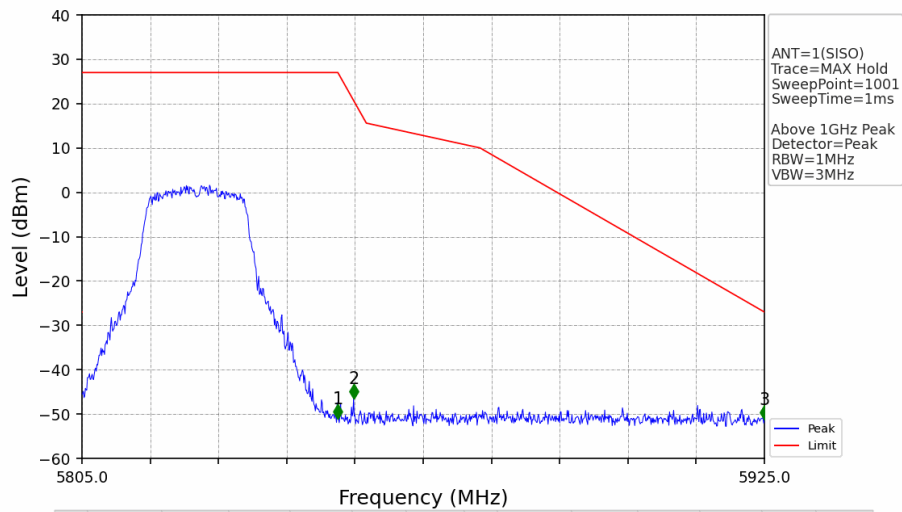


## 802.11n(HT20) HCH 5825MHz\_Ant1\_NTNV



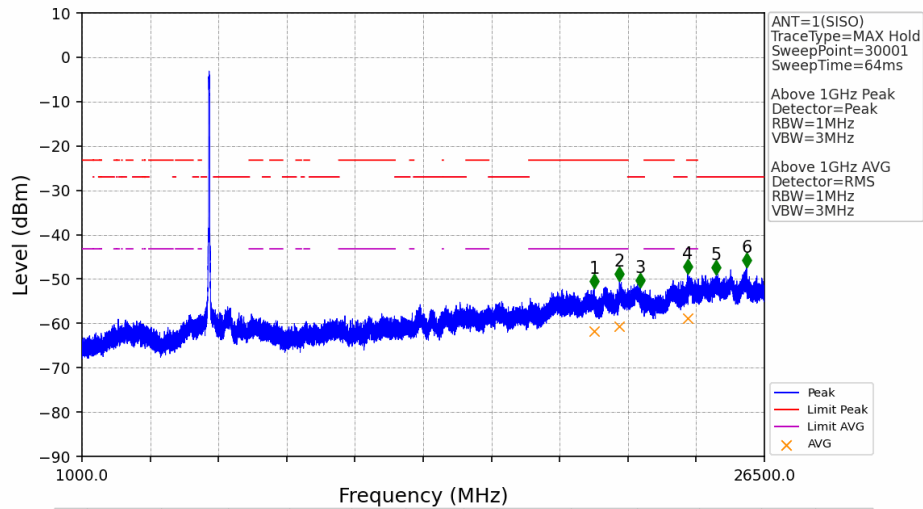
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 20471.8         | -39.40      | -21.20      | 18.20       | Pass   | Peak   | 7  | 20471.8         | -49.24      | -41.20      | 8.04        | Pass   | AVG    |
| 2  | 21714.5         | -38.52      | -27.00      | 11.52       | Pass   | Peak   | 8  | 21714.5         | /           | -27.00      | /           | /      | AVG    |
| 3  | 23056.65        | -38.38      | -21.20      | 17.18       | Pass   | Peak   | 9  | 23056.65        | -47.70      | -41.20      | 6.50        | Pass   | AVG    |
| 4  | 23854.8         | -36.18      | -21.20      | 14.98       | Pass   | Peak   | 10 | 23854.8         | -47.30      | -41.20      | 6.10        | Pass   | AVG    |
| 5  | 25289.6         | -35.31      | -27.00      | 8.31        | Pass   | Peak   | 11 | 25289.6         | /           | -27.00      | /           | /      | AVG    |
| 6  | 26365.7         | -36.70      | -27.00      | 9.70        | Pass   | Peak   | 12 | 26365.7         | /           | -27.00      | /           | /      | AVG    |

## 802.11n(HT20) HCH 5825MHz\_Ant1\_NTNV



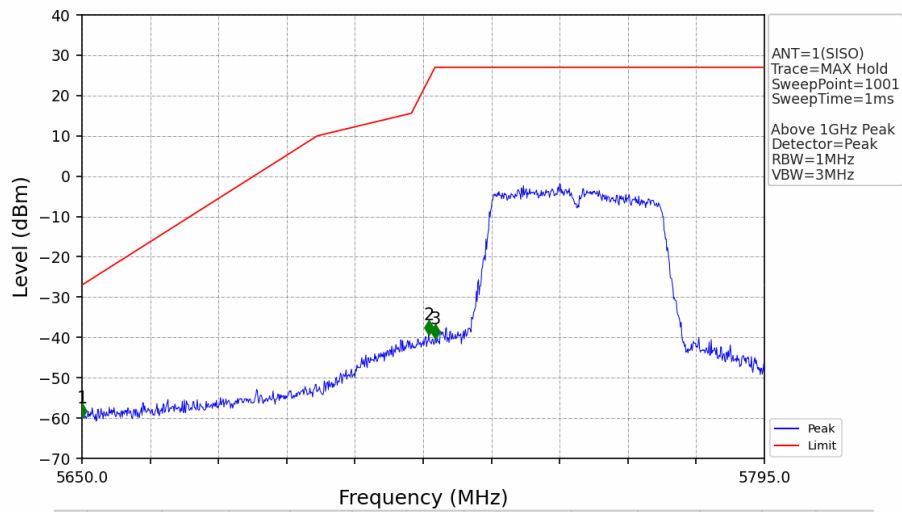
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5850.000        | -48.94      | 27.00       | 75.94       | Pass   | Peak   | 3  | 5925.000        | -49.15      | -27.00      | 22.15       | Pass   | Peak   |
| 2  | 5852.760        | -44.46      | 20.71       | 65.17       | Pass   | Peak   |    |                 |             |             |             |        |        |

## 802.11n(HT40) LCH\_5755MHz\_Ant1\_NTNV



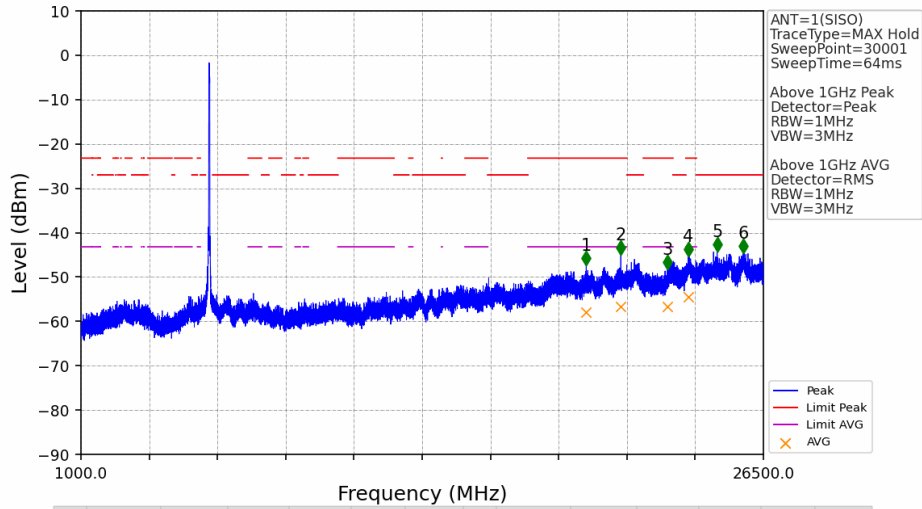
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 20136.9         | -50.12      | -21.20      | 28.92       | Pass   | Peak   | 7  | 20136.9         | -59.84      | -41.20      | 18.64       | Pass   | AVG    |
| 2  | 21086.35        | -48.41      | -21.20      | 27.21       | Pass   | Peak   | 8  | 21086.35        | -58.65      | -41.20      | 17.45       | Pass   | AVG    |
| 3  | 21859.85        | -49.83      | -27.00      | 22.82       | Pass   | Peak   | 9  | 21859.85        | /           | -27.00      | /           | /      | AVG    |
| 4  | 23634.65        | -46.74      | -21.20      | 25.54       | Pass   | Peak   | 10 | 23634.65        | -56.94      | -41.20      | 15.74       | Pass   | AVG    |
| 5  | 24704.8         | -46.98      | -27.00      | 19.98       | Pass   | Peak   | 11 | 24704.8         | /           | -27.00      | /           | /      | AVG    |
| 6  | 25834.45        | -45.26      | -27.00      | 18.26       | Pass   | Peak   | 12 | 25834.45        | /           | -27.00      | /           | /      | AVG    |

## 802.11n(HT40) LCH\_5755MHz\_Ant1\_NTNV



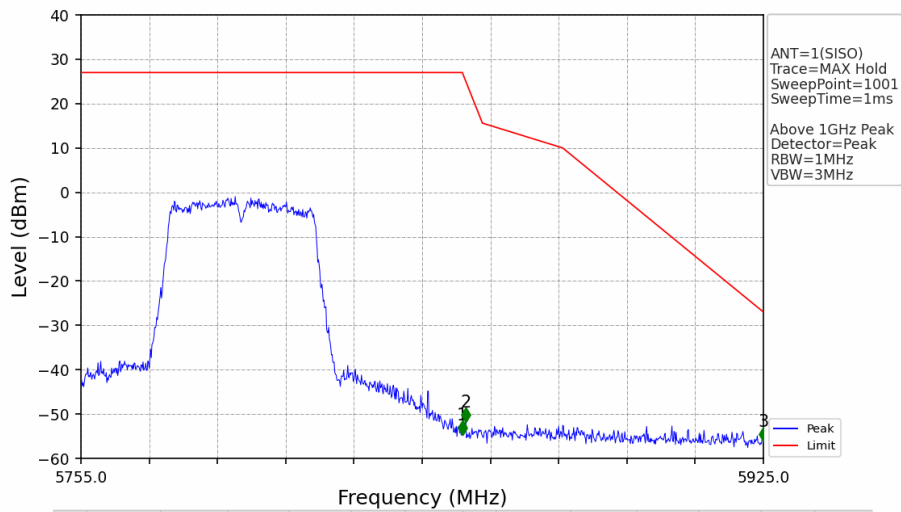
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5650.000        | -57.90      | -27.00      | 30.90       | Pass   | Peak   | 3  | 5725.000        | -38.33      | 27.00       | 65.33       | Pass   | Peak   |
| 2  | 5723.660        | -37.27      | 23.94       | 61.22       | Pass   | Peak   |    |                 |             |             |             |        |        |

## 802.11n(HT40) HCH 5795MHz\_Ant1\_NTNV



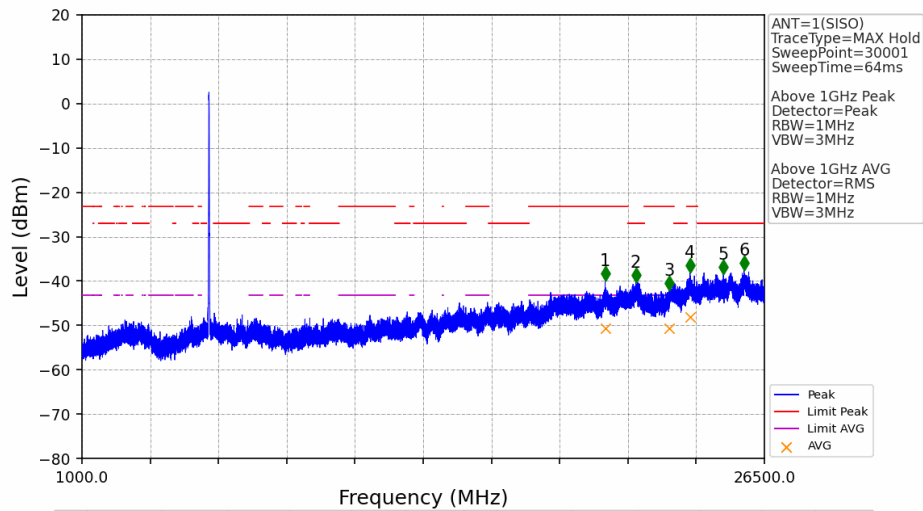
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 19880.2         | -45.24      | -21.20      | 24.04       | Pass   | Peak   | 7  | 19880.2         | -55.94      | -41.20      | 14.73       | Pass   | AVG    |
| 2  | 21173.05        | -42.89      | -21.20      | 21.69       | Pass   | Peak   | 8  | 21173.05        | -54.62      | -41.20      | 13.43       | Pass   | AVG    |
| 3  | 22919.8         | -46.30      | -21.20      | 25.10       | Pass   | Peak   | 9  | 22919.8         | -54.68      | -41.20      | 13.48       | Pass   | AVG    |
| 4  | 23695.85        | -43.24      | -21.20      | 22.05       | Pass   | Peak   | 10 | 23695.85        | -52.53      | -41.20      | 11.33       | Pass   | AVG    |
| 5  | 24771.1         | -42.18      | -27.00      | 15.18       | Pass   | Peak   | 11 | 24771.1         | /           | -27.00      | /           | /      | AVG    |
| 6  | 25749.45        | -42.57      | -27.00      | 15.57       | Pass   | Peak   | 12 | 25749.45        | /           | -27.00      | /           | /      | AVG    |

## 802.11n(HT40) HCH 5795MHz\_Ant1\_NTNV



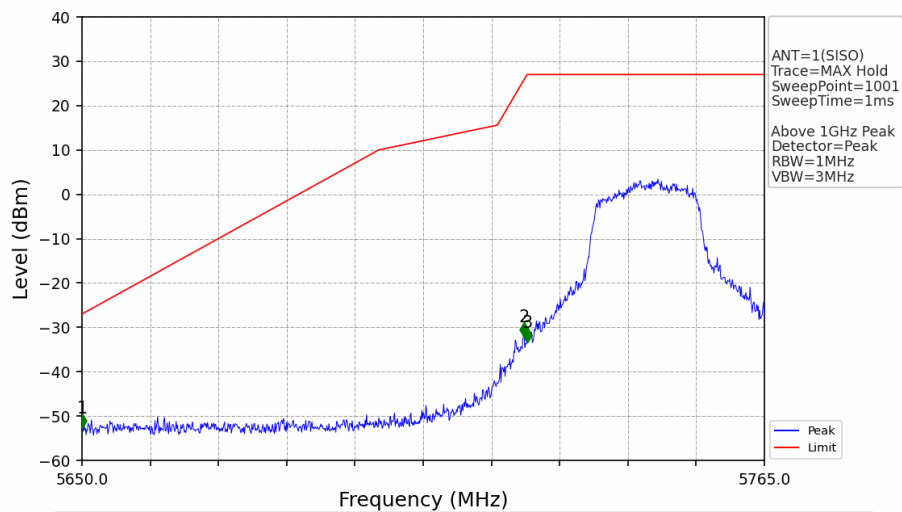
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5850.000        | -52.58      | 27.00       | 79.58       | Pass   | Peak   | 3  | 5925.000        | -54.07      | -27.00      | 27.07       | Pass   | Peak   |
| 2  | 5850.880        | -49.78      | 24.99       | 74.77       | Pass   | Peak   |    |                 |             |             |             |        |        |

## 802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



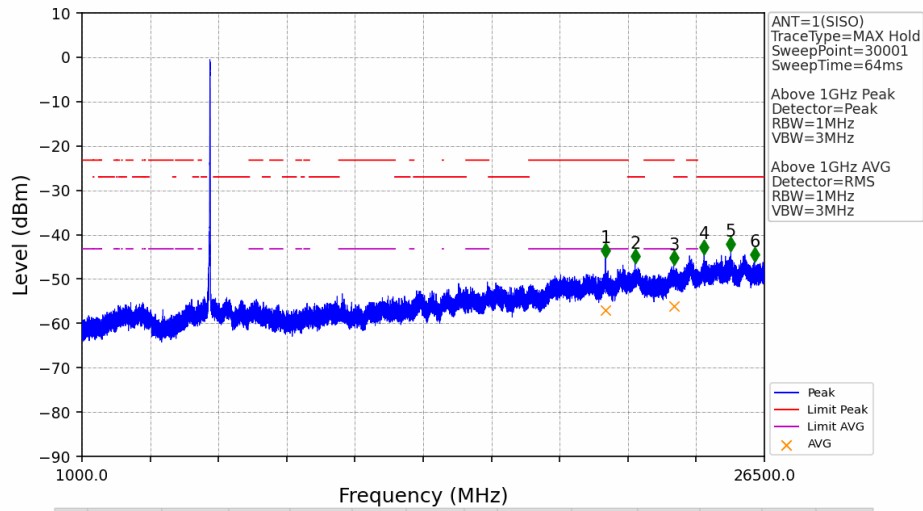
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 20548.3         | -37.92      | -21.20      | 16.72       | Pass   | Peak   | 7  | 20548.3         | -48.64      | -41.20      | 7.44        | Pass   | AVG    |
| 2  | 21695.8         | -38.30      | -27.00      | 11.30       | Pass   | Peak   | 8  | 21695.8         | /           | -27.00      | /           | /      | AVG    |
| 3  | 22935.95        | -40.00      | -21.20      | 18.80       | Pass   | Peak   | 9  | 22935.95        | -48.72      | -41.20      | 7.52        | Pass   | AVG    |
| 4  | 23718.8         | -35.97      | -21.20      | 14.77       | Pass   | Peak   | 10 | 23718.8         | -46.11      | -41.20      | 4.91        | Pass   | AVG    |
| 5  | 24967.45        | -36.38      | -27.00      | 9.38        | Pass   | Peak   | 11 | 24967.45        | /           | -27.00      | /           | /      | AVG    |
| 6  | 25738.4         | -35.51      | -27.00      | 8.51        | Pass   | Peak   | 12 | 25738.4         | /           | -27.00      | /           | /      | AVG    |

## 802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



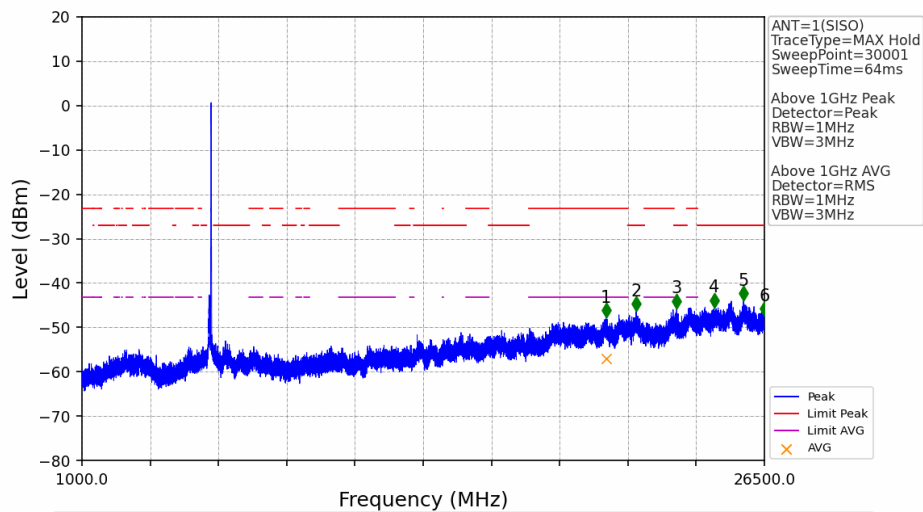
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5650.000        | -50.72      | -27.00      | 23.72       | Pass   | Peak   | 3  | 5725.000        | -31.34      | 27.00       | 58.34       | Pass   | Peak   |
| 2  | 5724.520        | -30.14      | 25.91       | 56.05       | Pass   | Peak   |    |                 |             |             |             |        |        |

## 802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



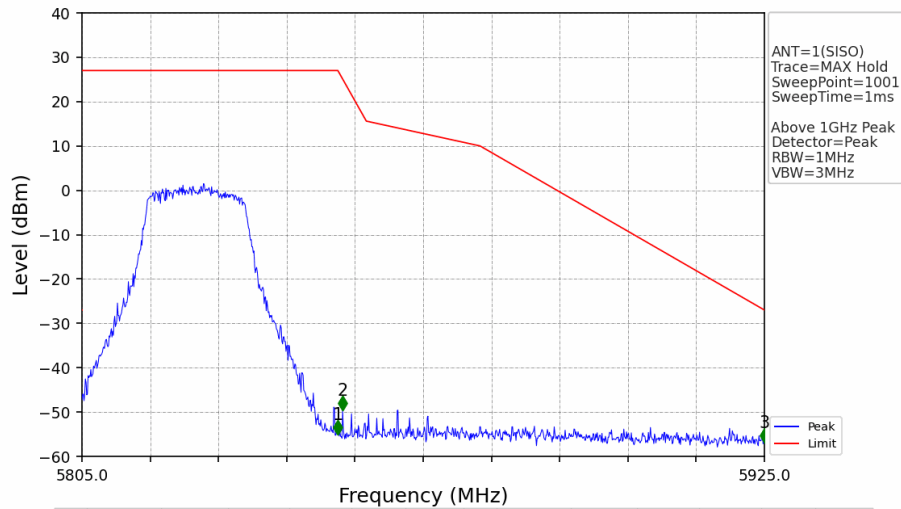
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 20559.35        | -43.21      | -21.20      | 22.01       | Pass   | Peak   | 7  | 20559.35        | -55.02      | -41.20      | 13.82       | Pass   | AVG    |
| 2  | 21666.9         | -44.37      | -27.00      | 17.37       | Pass   | Peak   | 8  | 21666.9         | /           | -27.00      | /           | /      | AVG    |
| 3  | 23111.05        | -44.79      | -21.20      | 23.59       | Pass   | Peak   | 9  | 23111.05        | -54.19      | -41.20      | 12.99       | Pass   | AVG    |
| 4  | 24245.8         | -42.32      | -27.00      | 15.32       | Pass   | Peak   | 10 | 24245.8         | /           | -27.00      | /           | /      | AVG    |
| 5  | 25245.4         | -41.64      | -27.00      | 14.64       | Pass   | Peak   | 11 | 25245.4         | /           | -27.00      | /           | /      | AVG    |
| 6  | 26129.4         | -44.01      | -27.00      | 17.01       | Pass   | Peak   | 12 | 26129.4         | /           | -27.00      | /           | /      | AVG    |

## 802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV

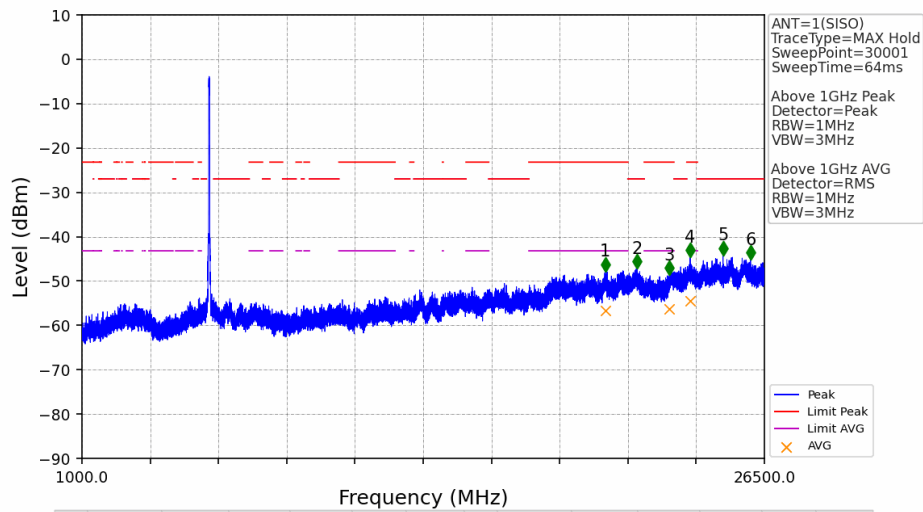


| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 20580.6         | -45.75      | -21.20      | 24.55       | Pass   | Peak   | 7  | 20580.6         | -55.13      | -41.20      | 13.93       | Pass   | AVG    |
| 2  | 21706.85        | -44.22      | -27.00      | 17.22       | Pass   | Peak   | 8  | 21706.85        | /           | -27.00      | /           | /      | AVG    |
| 3  | 23220.7         | -43.61      | -27.00      | 16.61       | Pass   | Peak   | 9  | 23220.7         | /           | -27.00      | /           | /      | AVG    |
| 4  | 24621.5         | -43.42      | -27.00      | 16.42       | Pass   | Peak   | 10 | 24621.5         | /           | -27.00      | /           | /      | AVG    |
| 5  | 25718.85        | -41.85      | -27.00      | 14.85       | Pass   | Peak   | 11 | 25718.85        | /           | -27.00      | /           | /      | AVG    |
| 6  | 26492.35        | -45.41      | -27.00      | 18.41       | Pass   | Peak   | 12 | 26492.35        | /           | -27.00      | /           | /      | AVG    |

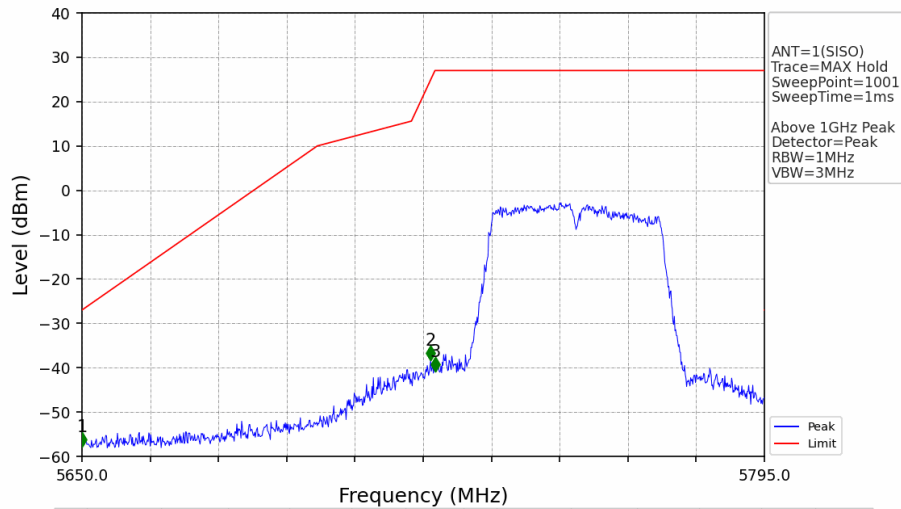
## 802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



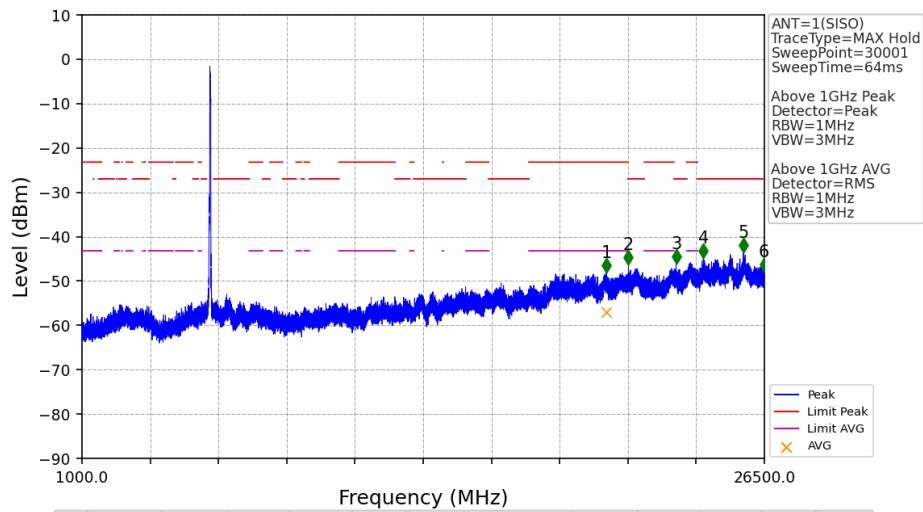
## 802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



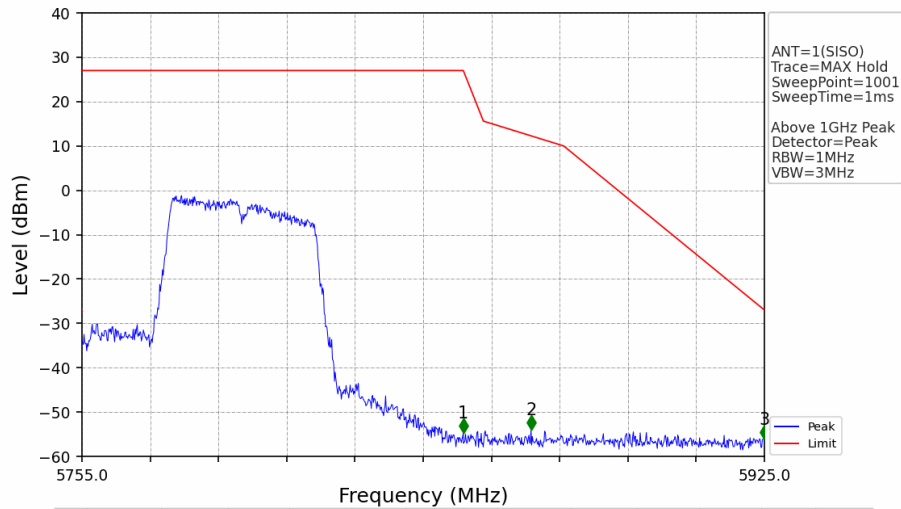
## 802.11ac(VHT40) LCH 5755MHz Ant1\_NTNV



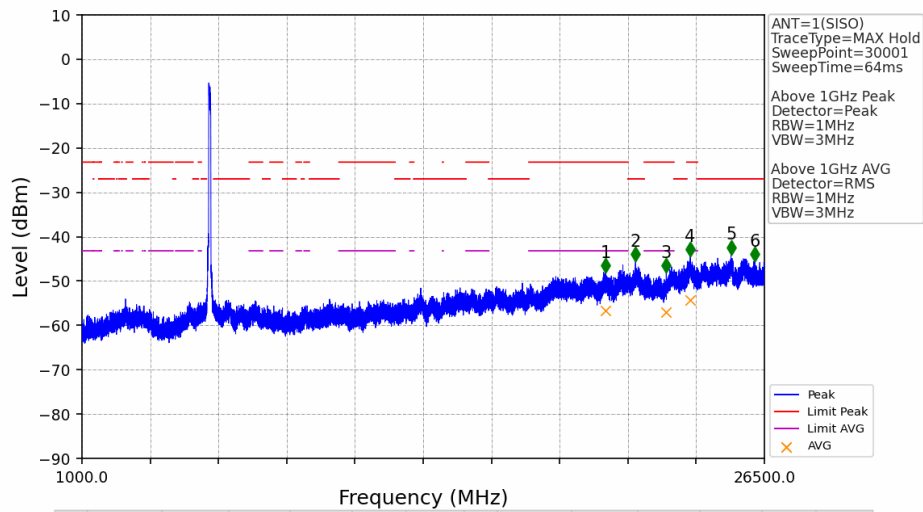
## 802.11ac(VHT40) HCH 5795MHz Ant1\_NTNV



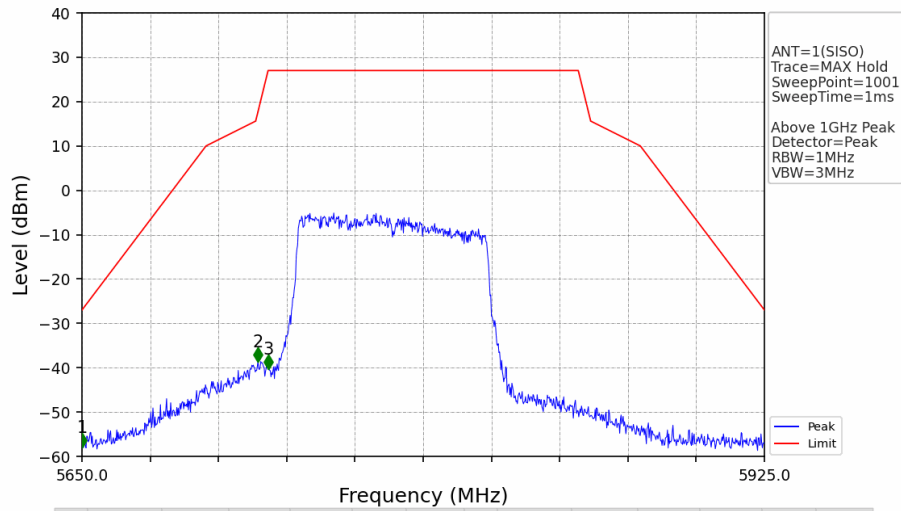
## 802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



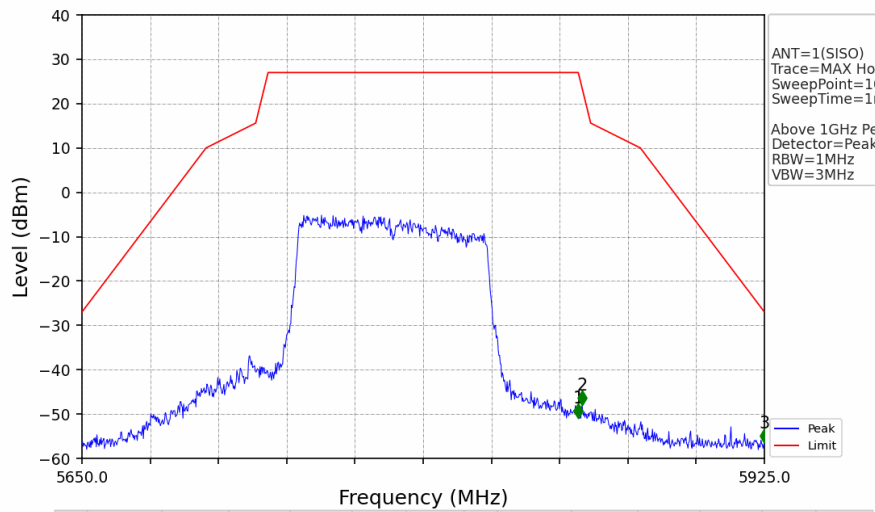
## 802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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



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



## 6. Frequency Stability

### 6.1 Test Result

#### 6.1.1 Ant1

| Ant1         |         |                 |                  |               |                          |              |         |
|--------------|---------|-----------------|------------------|---------------|--------------------------|--------------|---------|
| Mode         | TX Type | Frequency (MHz) | Temperature (°C) | Voltage (VAC) | Measured Frequency (MHz) | Limit (MHz)  | Verdict |
| Carrier Wave | SISO    | 5745            | 20               | 102           | 5744.992                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 120           | 5744.992                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 138           | 5744.992                 | 5725 to 5850 | Pass    |
|              |         |                 | -30              | 120           | 5744.992                 | 5725 to 5850 | Pass    |
|              |         |                 | -20              | 120           | 5744.992                 | 5725 to 5850 | Pass    |
|              |         |                 | -10              | 120           | 5744.992                 | 5725 to 5850 | Pass    |
|              |         |                 | 0                | 120           | 5744.992                 | 5725 to 5850 | Pass    |
|              |         |                 | 10               | 120           | 5744.991                 | 5725 to 5850 | Pass    |
|              |         |                 | 30               | 120           | 5744.991                 | 5725 to 5850 | Pass    |
|              |         |                 | 40               | 120           | 5744.991                 | 5725 to 5850 | Pass    |
|              |         |                 | 50               | 120           | 5744.991                 | 5725 to 5850 | Pass    |
|              |         | 5785            | 20               | 102           | 5784.991                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 120           | 5784.991                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 138           | 5784.991                 | 5725 to 5850 | Pass    |
|              |         |                 | -30              | 120           | 5784.991                 | 5725 to 5850 | Pass    |
|              |         |                 | -20              | 120           | 5784.991                 | 5725 to 5850 | Pass    |
|              |         |                 | -10              | 120           | 5784.991                 | 5725 to 5850 | Pass    |
|              |         |                 | 0                | 120           | 5784.991                 | 5725 to 5850 | Pass    |
|              |         |                 | 10               | 120           | 5784.991                 | 5725 to 5850 | Pass    |
|              |         |                 | 30               | 120           | 5784.991                 | 5725 to 5850 | Pass    |
|              |         |                 | 40               | 120           | 5784.991                 | 5725 to 5850 | Pass    |
|              |         |                 | 50               | 120           | 5784.991                 | 5725 to 5850 | Pass    |
|              |         | 5825            | 20               | 102           | 5824.991                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 120           | 5824.991                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 138           | 5824.991                 | 5725 to 5850 | Pass    |
|              |         |                 | -30              | 120           | 5824.991                 | 5725 to 5850 | Pass    |
|              |         |                 | -20              | 120           | 5824.991                 | 5725 to 5850 | Pass    |
|              |         |                 | -10              | 120           | 5824.991                 | 5725 to 5850 | Pass    |
|              |         |                 | 0                | 120           | 5824.991                 | 5725 to 5850 | Pass    |
|              |         |                 | 10               | 120           | 5824.991                 | 5725 to 5850 | Pass    |
|              |         |                 | 30               | 120           | 5824.991                 | 5725 to 5850 | Pass    |
|              |         |                 | 40               | 120           | 5824.991                 | 5725 to 5850 | Pass    |
|              |         |                 | 50               | 120           | 5824.991                 | 5725 to 5850 | Pass    |
|              |         | 5755            | 20               | 102           | 5754.992                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 120           | 5754.992                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 138           | 5754.992                 | 5725 to 5850 | Pass    |
|              |         |                 | -30              | 120           | 5754.992                 | 5725 to 5850 | Pass    |
|              |         |                 | -20              | 120           | 5754.992                 | 5725 to 5850 | Pass    |
|              |         |                 | -10              | 120           | 5754.992                 | 5725 to 5850 | Pass    |
|              |         |                 | 0                | 120           | 5754.992                 | 5725 to 5850 | Pass    |
|              |         |                 | 10               | 120           | 5754.992                 | 5725 to 5850 | Pass    |
|              |         |                 | 30               | 120           | 5754.992                 | 5725 to 5850 | Pass    |
|              |         |                 | 40               | 120           | 5754.992                 | 5725 to 5850 | Pass    |
|              |         |                 | 50               | 120           | 5754.992                 | 5725 to 5850 | Pass    |
|              |         | 5795            | 20               | 102           | 5794.992                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 120           | 5794.992                 | 5725 to 5850 | Pass    |
|              |         |                 |                  | 138           | 5794.992                 | 5725 to 5850 | Pass    |
|              |         |                 | -30              | 120           | 5794.992                 | 5725 to 5850 | Pass    |

|  |  |      |     |     |          |              |      |
|--|--|------|-----|-----|----------|--------------|------|
|  |  |      | -20 | 120 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5794.991 | 5725 to 5850 | Pass |
|  |  | 5775 | 20  | 102 | 5774.992 | 5725 to 5850 | Pass |
|  |  |      |     | 120 | 5774.992 | 5725 to 5850 | Pass |
|  |  |      |     | 138 | 5774.992 | 5725 to 5850 | Pass |
|  |  |      | -30 | 120 | 5774.992 | 5725 to 5850 | Pass |
|  |  |      | -20 | 120 | 5774.992 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5774.992 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5774.992 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5774.992 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5774.992 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5774.992 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5774.992 | 5725 to 5850 | Pass |

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