

# ANNEX F TEST DATA

## For

|                      |                                        |
|----------------------|----------------------------------------|
| Project No.:         | 8333EU121802W                          |
| Client:              | Shenzhen XinZhengYu technology co.,ltd |
| Product Description: | Smart Digital Calendar                 |
| Model No.:           | TF15                                   |
| FCC ID:              | 2AKR3-TF15                             |
| Technology:          | WiFi 5G                                |
| Test Engineer:       | <i>Mikoy zhu</i>                       |
| Test Date:           | 2025-08-25                             |

## Test Summary

| Item                                                 | Result |
|------------------------------------------------------|--------|
| Duty Cycle                                           | Pass   |
| Bandwidth                                            | Pass   |
| Maximum Conducted Output Power                       | Pass   |
| Maximum Power Spectral Density                       | Pass   |
| Unwanted Emissions In Non-restricted Frequency Bands | Pass   |
| Frequency Stability                                  | Pass   |

## 1. Duty Cycle

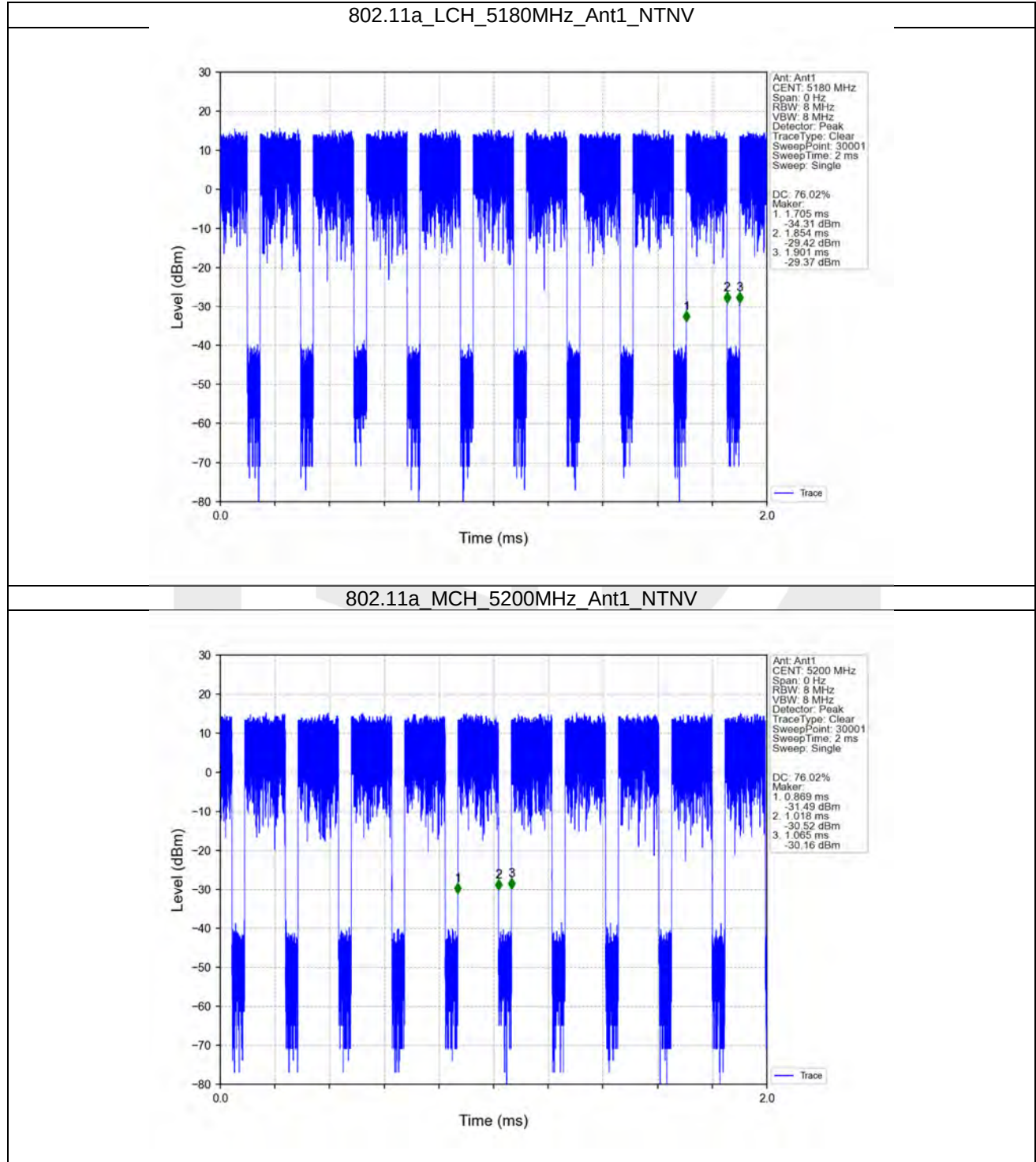
### 1.1 Test Result

#### 1.1.1 Ant1

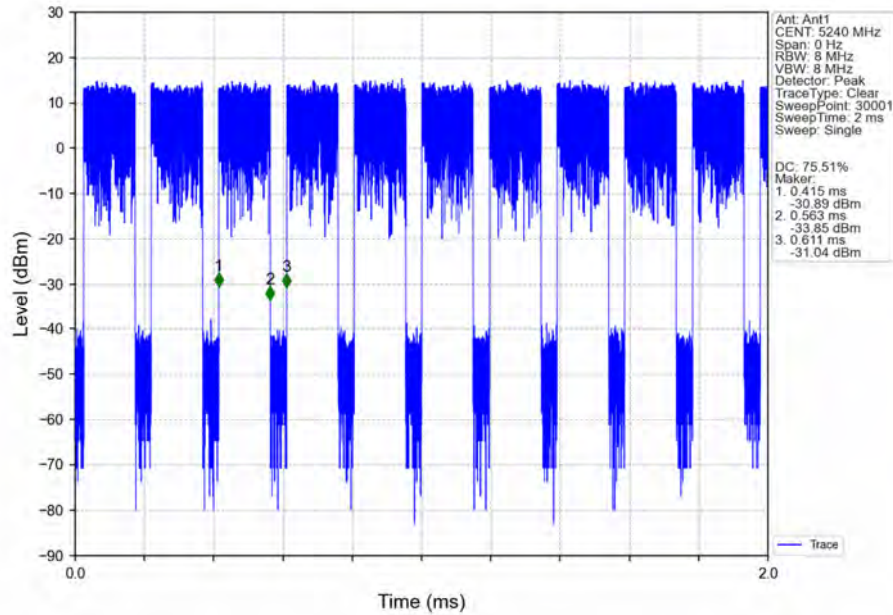
| Ant1             |         |                 |           |             |                |                                   |                       |
|------------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode             | Tx Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11a          | SISO    | 5180            | 0.149     | 0.196       | 76.02          | 1.19                              | 0.24                  |
|                  |         | 5200            | 0.149     | 0.196       | 76.02          | 1.19                              | 0.56                  |
|                  |         | 5240            | 0.148     | 0.196       | 75.51          | 1.22                              | 0.60                  |
|                  |         | 5745            | 0.149     | 0.196       | 76.02          | 1.19                              | 0.60                  |
|                  |         | 5785            | 0.148     | 0.196       | 75.51          | 1.22                              | 0.62                  |
|                  |         | 5825            | 0.149     | 0.197       | 75.63          | 1.21                              | 0.63                  |
| 802.11n (HT20)   | SISO    | 5180            | 0.177     | 0.224       | 79.02          | 1.02                              | 0.29                  |
|                  |         | 5200            | 0.176     | 0.224       | 78.57          | 1.05                              | 0.42                  |
|                  |         | 5240            | 0.177     | 0.224       | 79.02          | 1.02                              | 0.24                  |
|                  |         | 5745            | 0.177     | 0.223       | 79.37          | 1.00                              | 0.17                  |
|                  |         | 5785            | 0.177     | 0.223       | 79.37          | 1.00                              | 0.07                  |
|                  |         | 5825            | 0.176     | 0.224       | 78.57          | 1.05                              | 0.36                  |
| 802.11n (HT40)   | SISO    | 5190            | 0.181     | 0.227       | 79.74          | 0.98                              | 0.12                  |
|                  |         | 5230            | 0.180     | 0.227       | 79.30          | 1.01                              | 0.20                  |
|                  |         | 5755            | 0.181     | 0.228       | 79.39          | 1.00                              | 0.54                  |
|                  |         | 5795            | 0.180     | 0.227       | 79.30          | 1.01                              | 0.22                  |
| 802.11ac (VHT20) | SISO    | 5180            | 0.165     | 0.212       | 77.83          | 1.09                              | 0.46                  |
|                  |         | 5200            | 0.165     | 0.212       | 77.83          | 1.09                              | 0.44                  |
|                  |         | 5240            | 0.165     | 0.211       | 78.20          | 1.07                              | 0.06                  |
|                  |         | 5745            | 0.165     | 0.212       | 77.83          | 1.09                              | 0.43                  |
|                  |         | 5785            | 0.167     | 0.212       | 78.77          | 1.04                              | 0.48                  |
|                  |         | 5825            | 0.164     | 0.212       | 77.36          | 1.11                              | 0.61                  |
| 802.11ac (VHT40) | SISO    | 5190            | 0.157     | 0.205       | 76.59          | 1.16                              | 0.51                  |
|                  |         | 5230            | 0.157     | 0.203       | 77.34          | 1.12                              | 0.21                  |
|                  |         | 5755            | 0.157     | 0.205       | 76.59          | 1.16                              | 0.72                  |
|                  |         | 5795            | 0.157     | 0.203       | 77.34          | 1.12                              | 0.22                  |

## 1.2 Test Graph

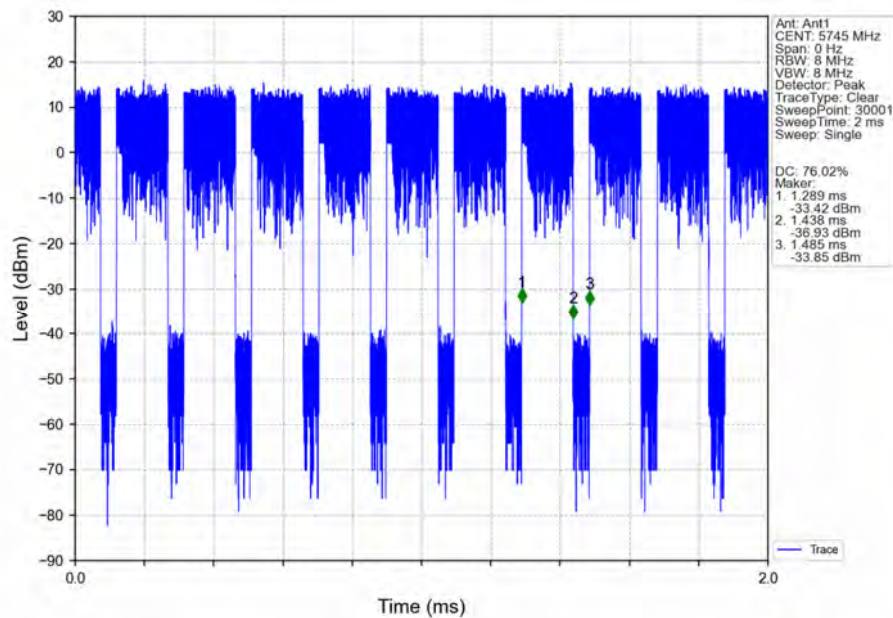
### 1.2.1 Ant1



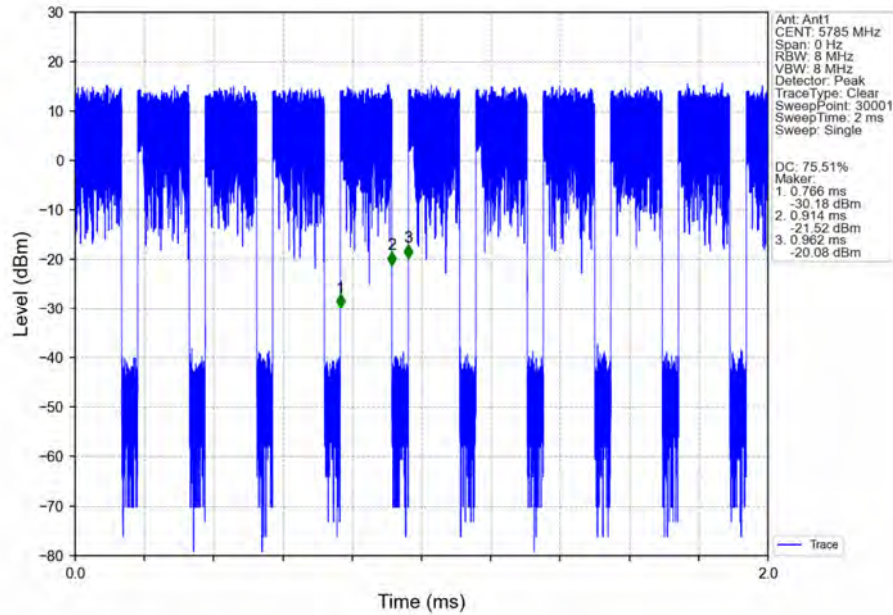
802.11a HCH\_5240MHz\_Ant1\_NTNV



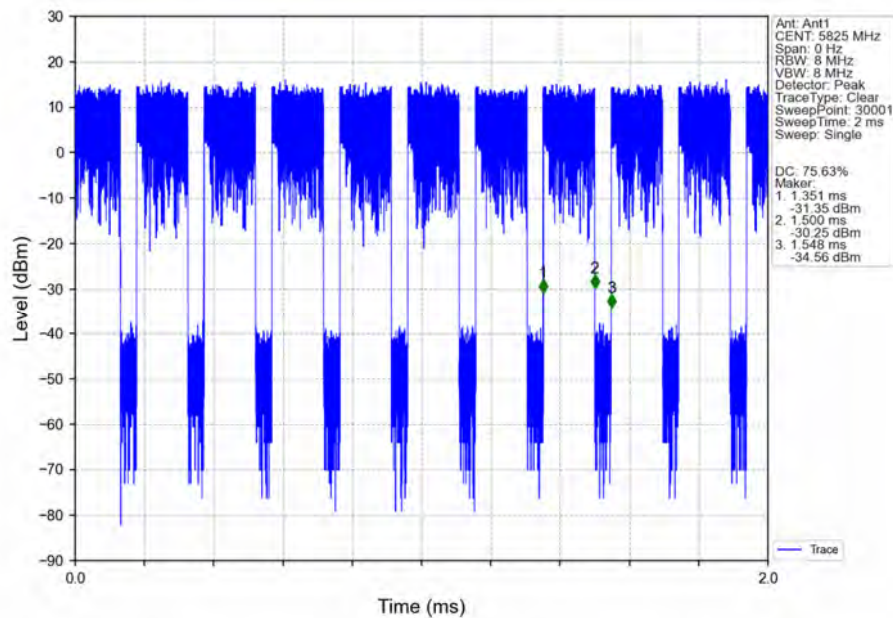
802.11a LCH\_5745MHz\_Ant1\_NTNV



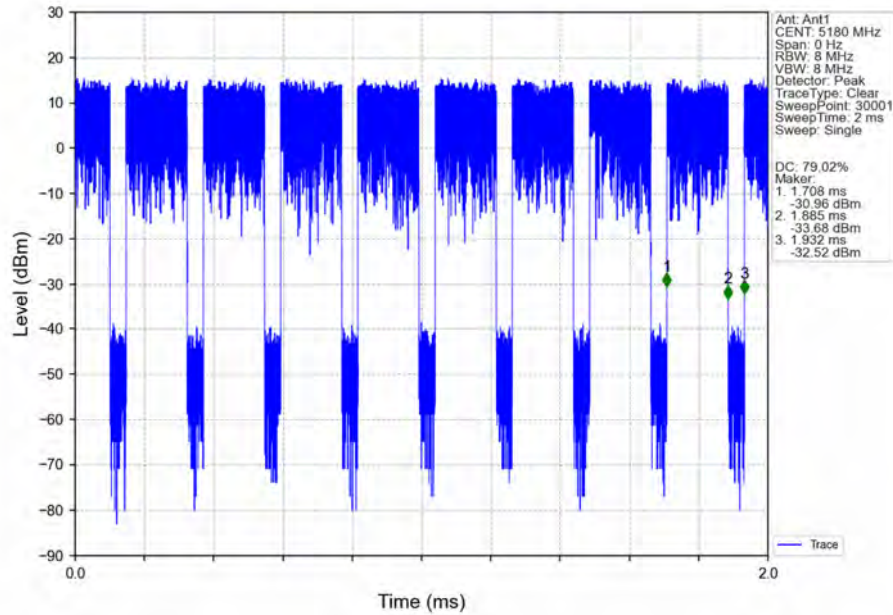
802.11a MCH\_5785MHz\_Ant1\_NTNV



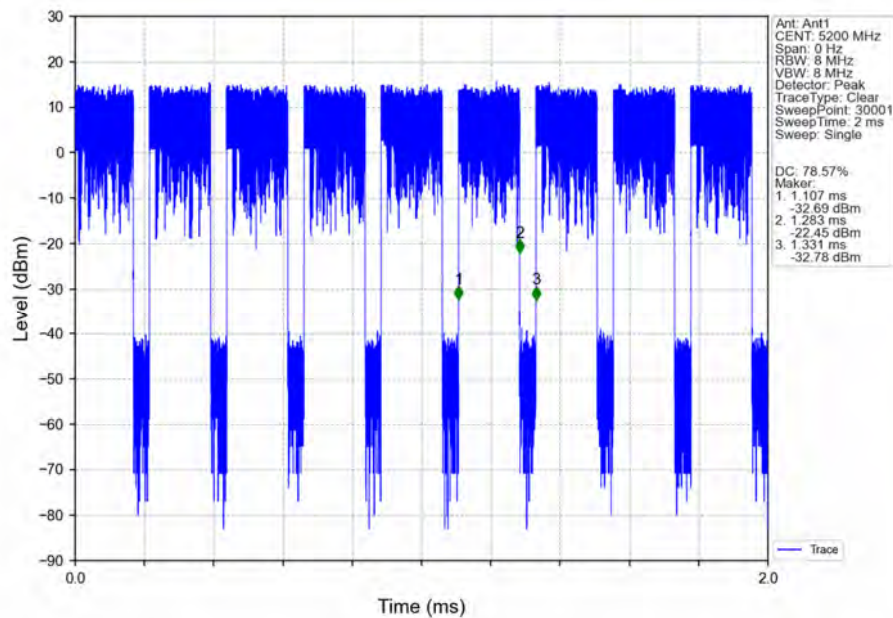
802.11a HCH\_5825MHz\_Ant1\_NTNV



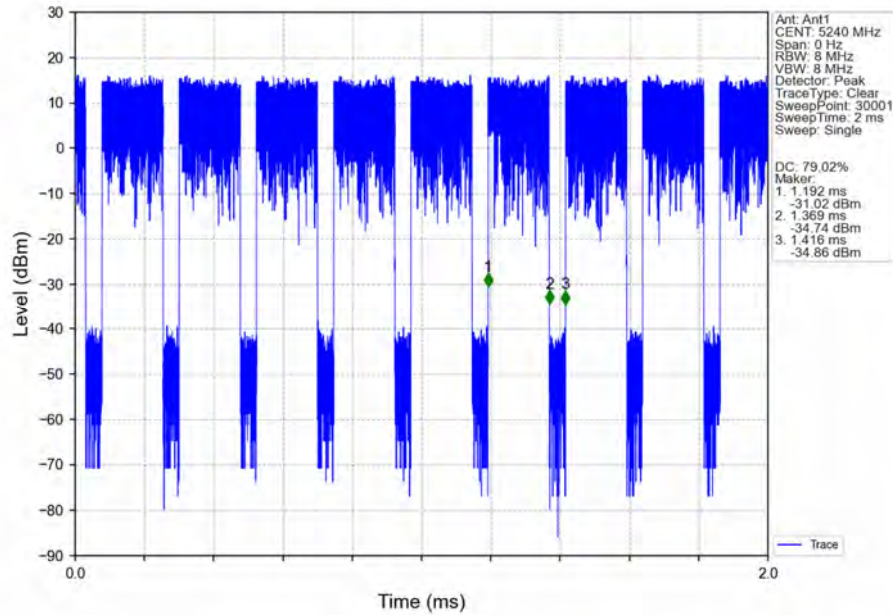
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



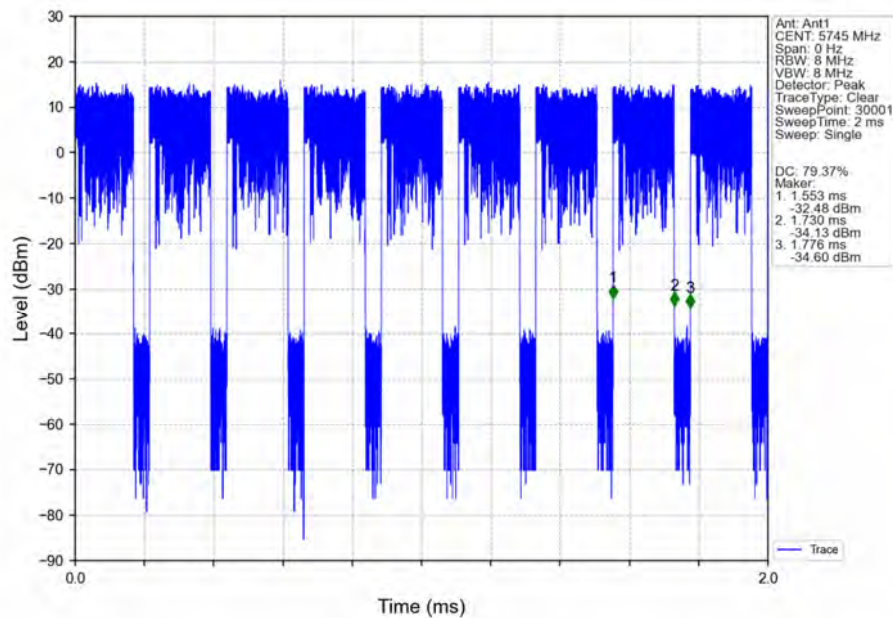
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



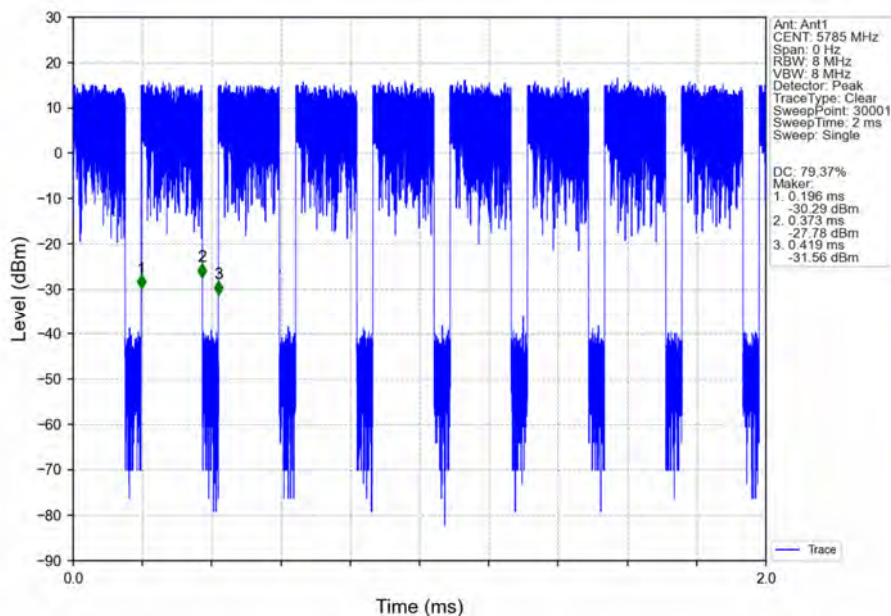
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



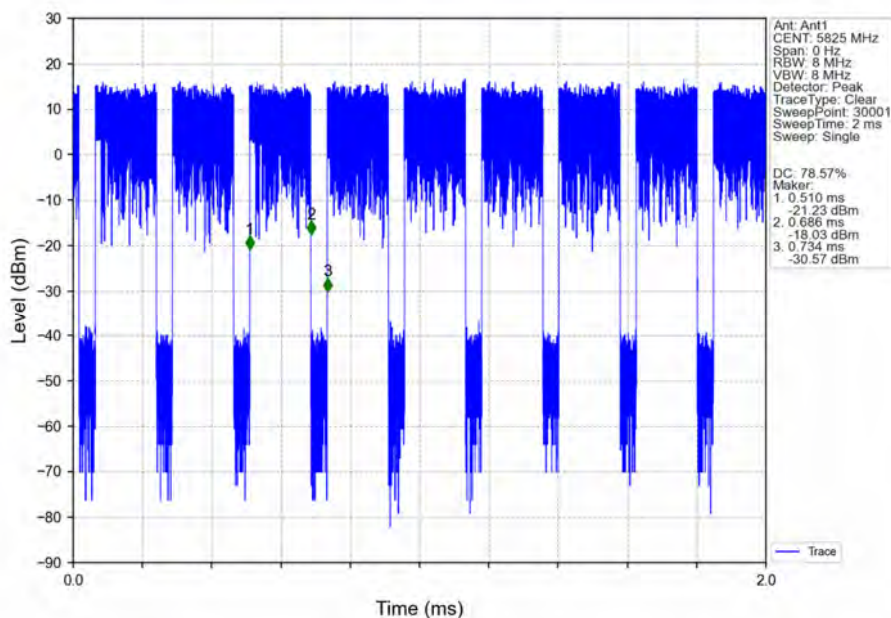
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



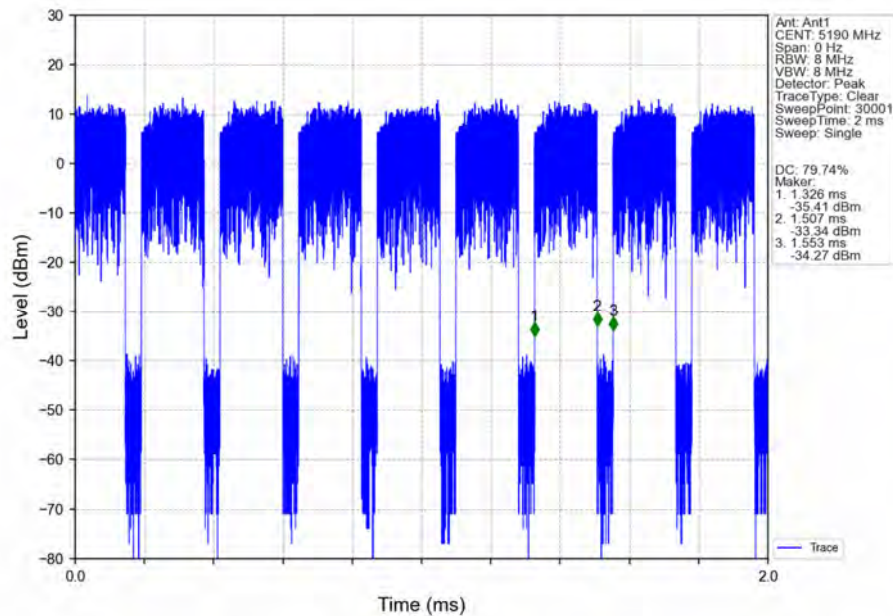
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



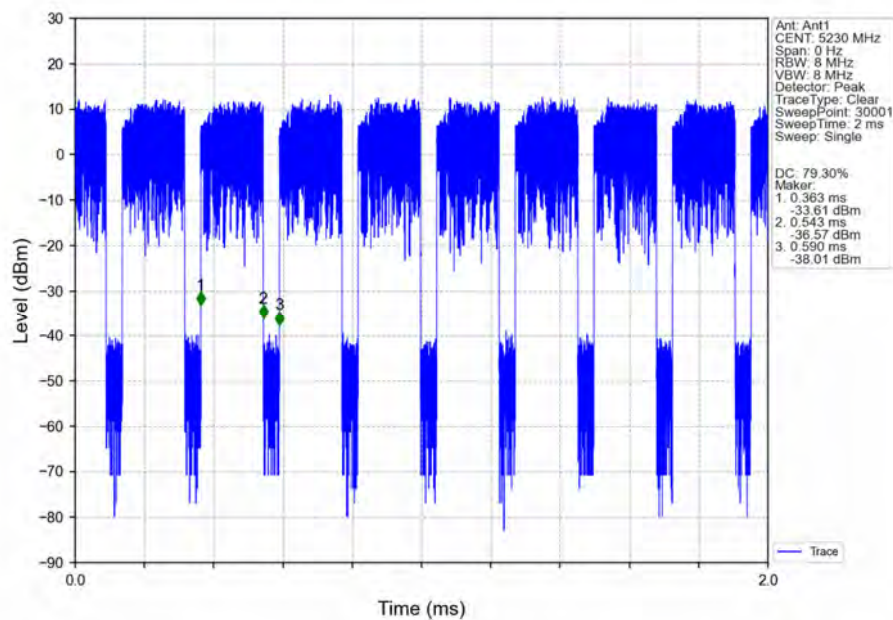
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



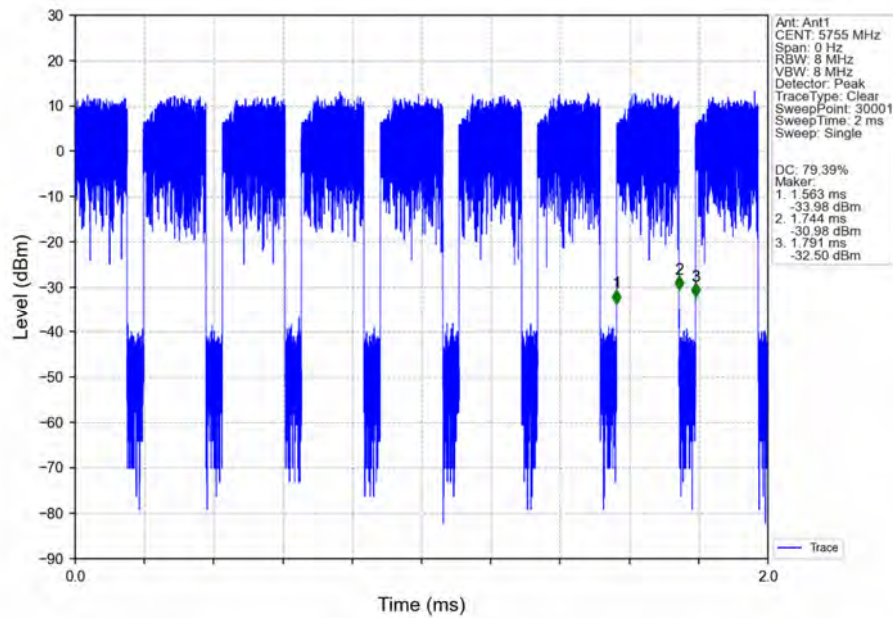
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



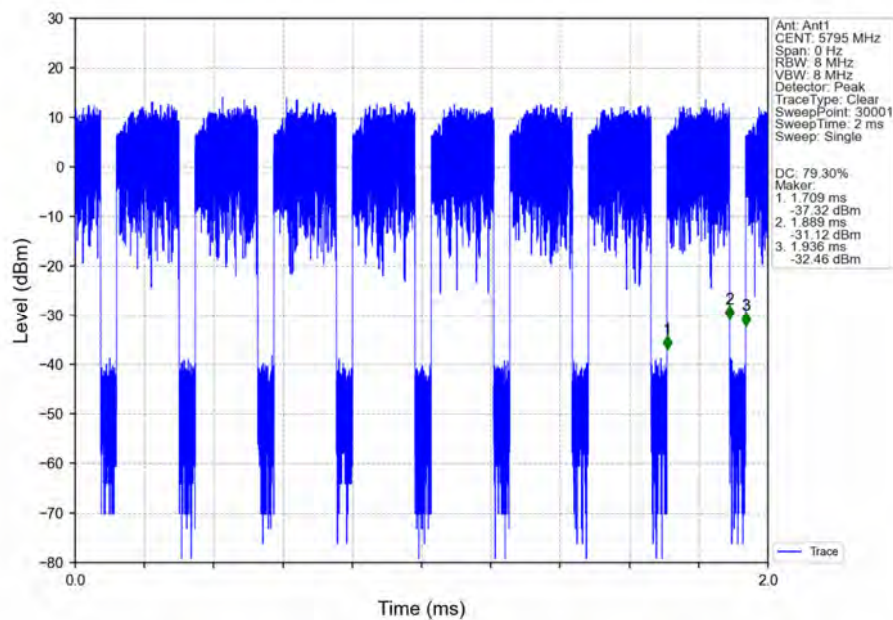
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



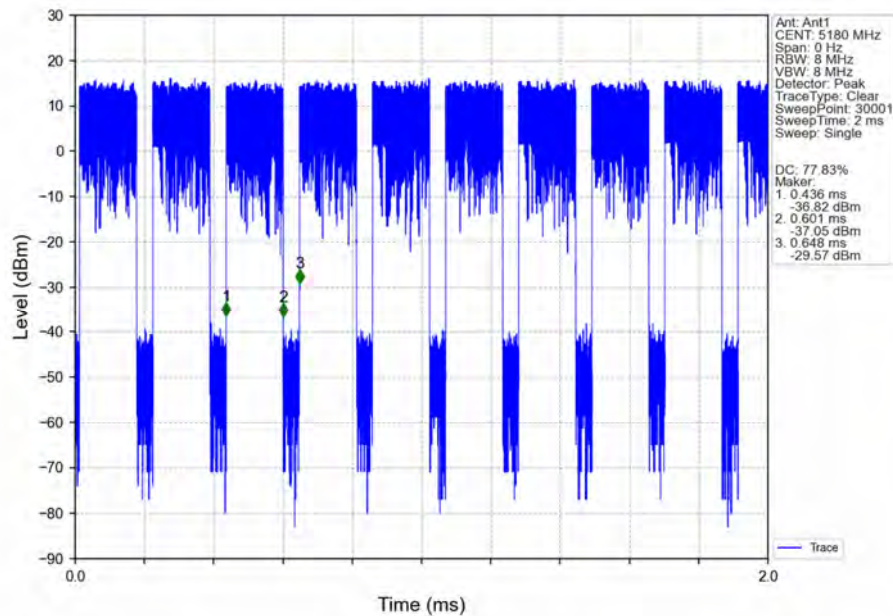
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



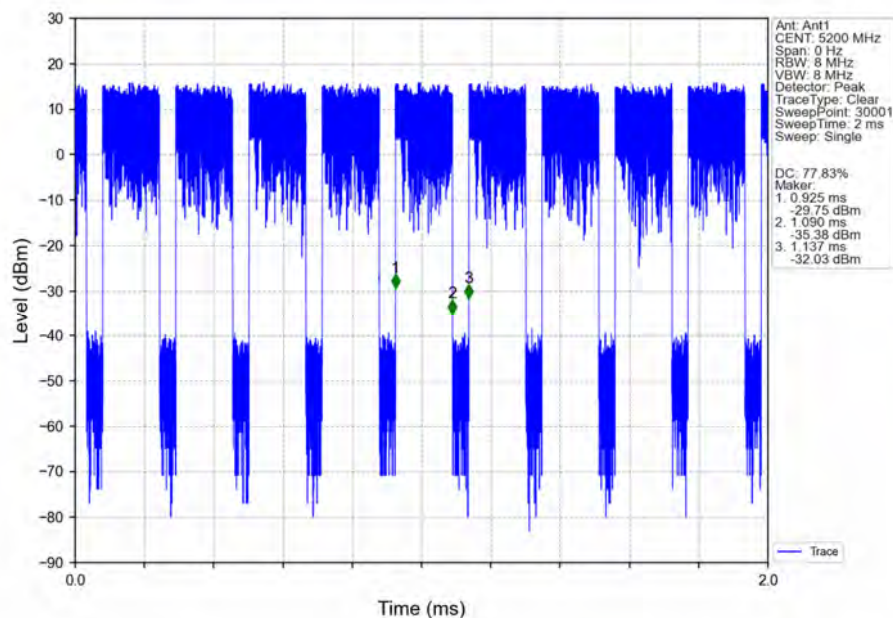
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



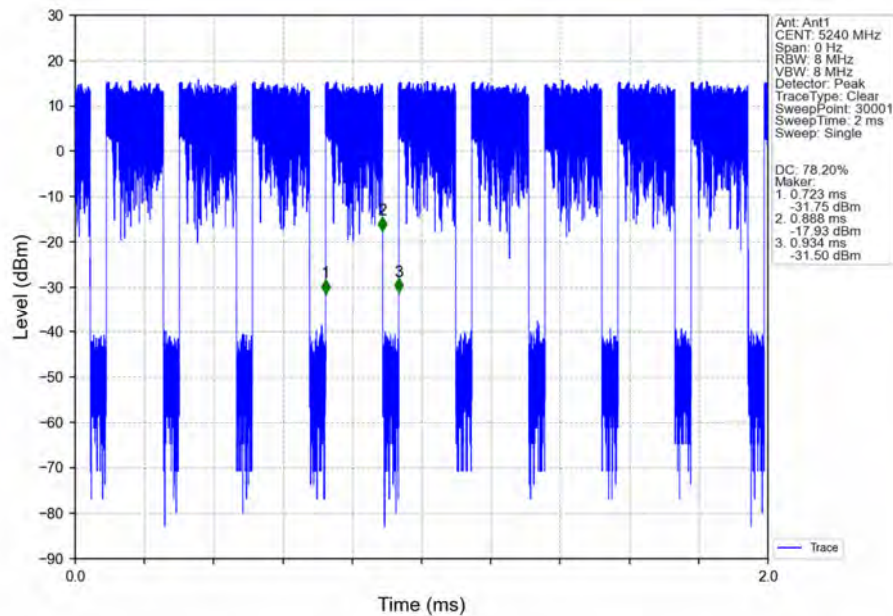
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



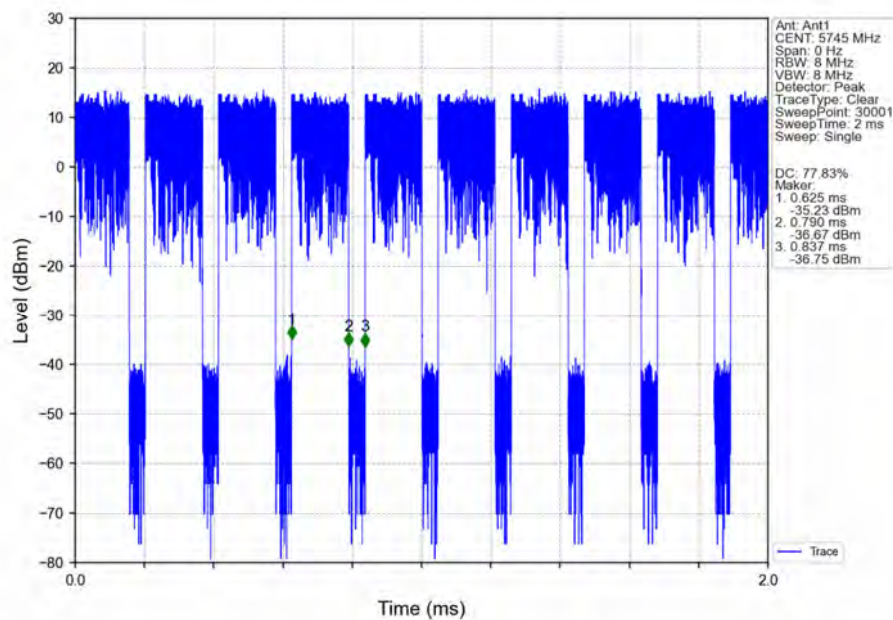
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



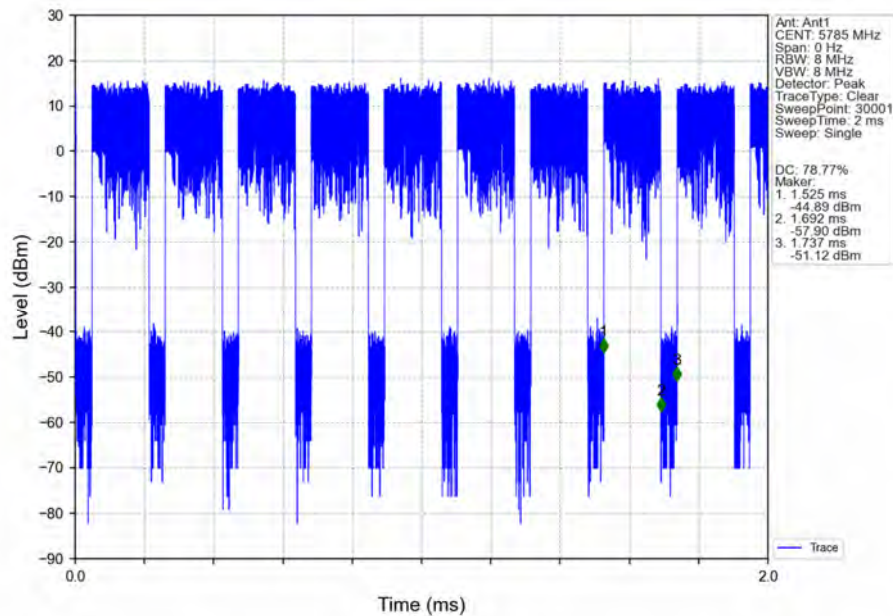
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



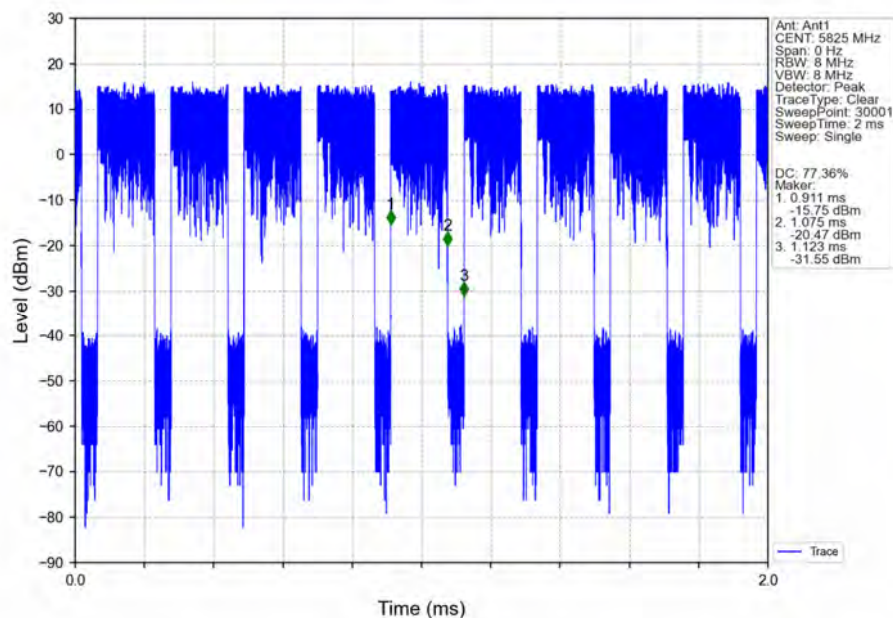
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



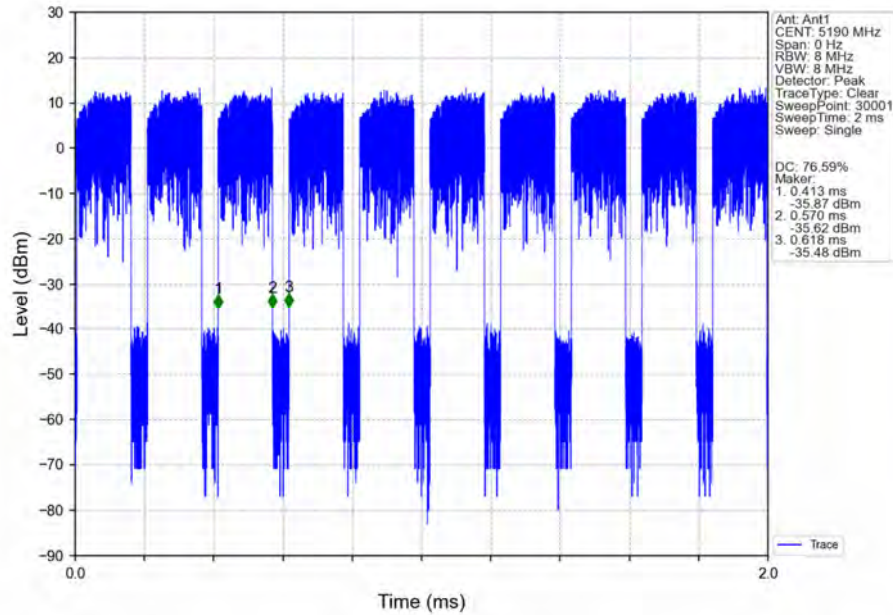
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



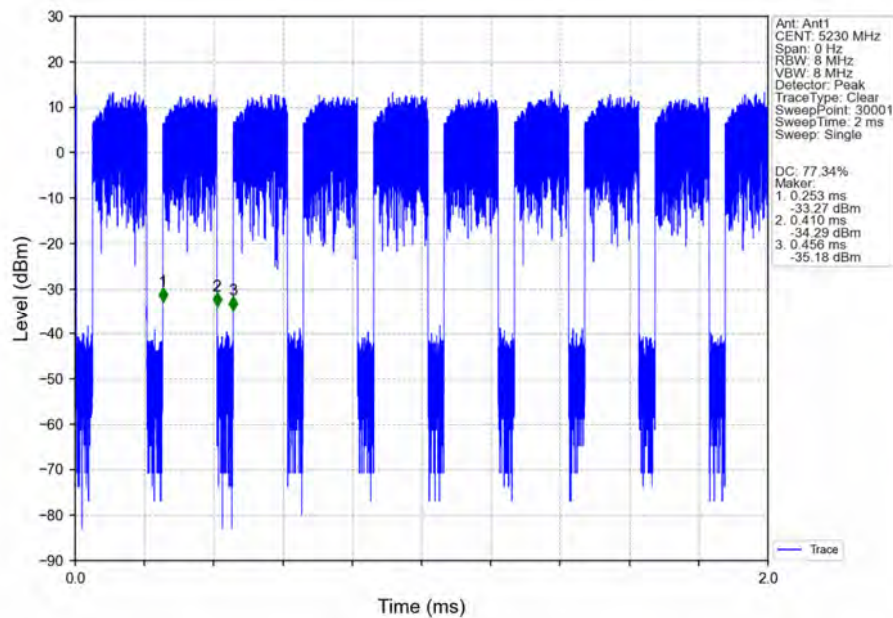
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



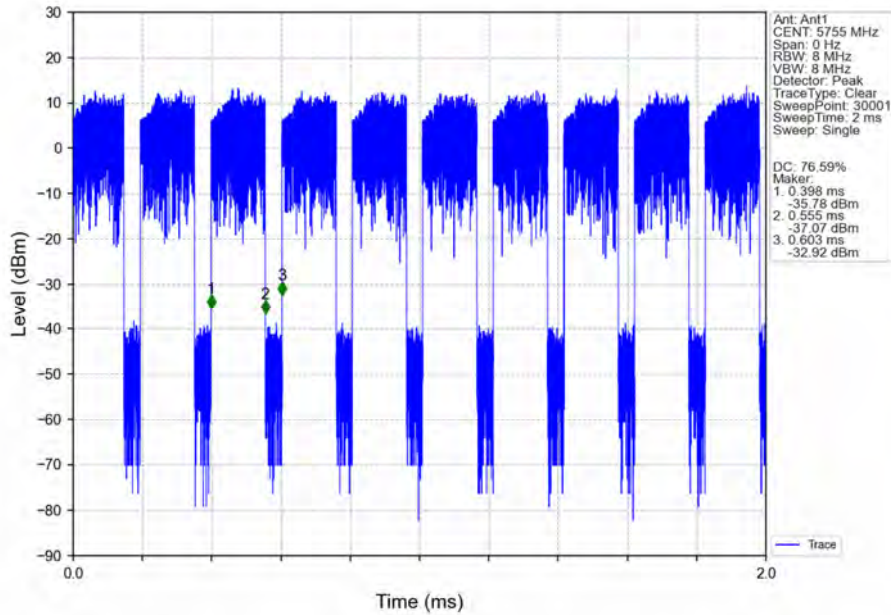
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



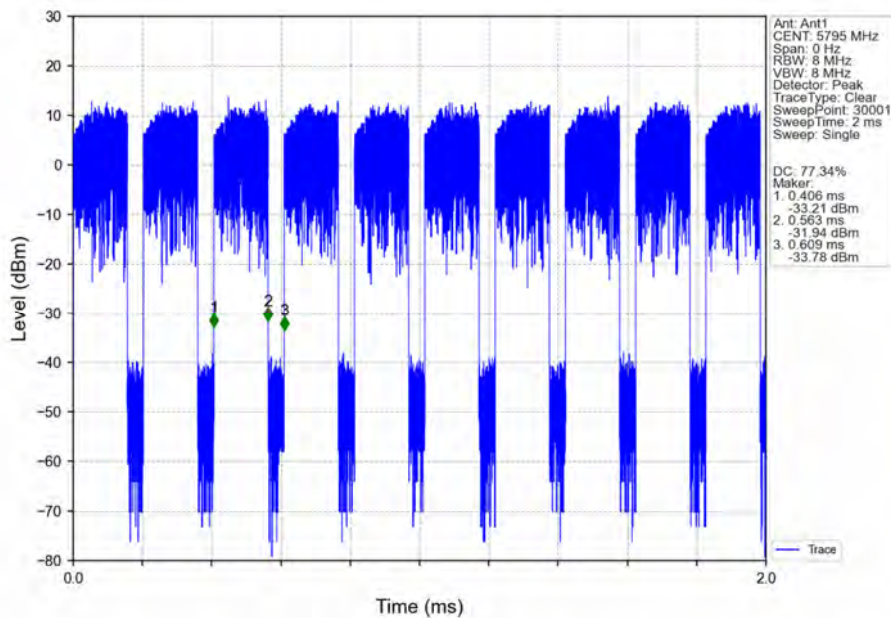
802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



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



802.11ac(VHT40)\_HCH\_5795MHz\_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   | 17.055                       | /     | Pass    |
|                  |         | 5200            | 1   | 17.124                       | /     | Pass    |
|                  |         | 5240            | 1   | 17.084                       | /     | Pass    |
|                  |         | 5745            | 1   | 17.495                       | /     | Pass    |
|                  |         | 5785            | 1   | 17.472                       | /     | Pass    |
|                  |         | 5825            | 1   | 17.453                       | /     | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | 1   | 18.123                       | /     | Pass    |
|                  |         | 5200            | 1   | 18.120                       | /     | Pass    |
|                  |         | 5240            | 1   | 18.098                       | /     | Pass    |
|                  |         | 5745            | 1   | 18.561                       | /     | Pass    |
|                  |         | 5785            | 1   | 18.427                       | /     | Pass    |
|                  |         | 5825            | 1   | 18.451                       | /     | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | 1   | 36.353                       | /     | Pass    |
|                  |         | 5230            | 1   | 36.276                       | /     | Pass    |
|                  |         | 5755            | 1   | 36.947                       | /     | Pass    |
|                  |         | 5795            | 1   | 36.931                       | /     | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | 1   | 18.125                       | /     | Pass    |
|                  |         | 5200            | 1   | 18.107                       | /     | Pass    |
|                  |         | 5240            | 1   | 18.079                       | /     | Pass    |
|                  |         | 5745            | 1   | 18.486                       | /     | Pass    |
|                  |         | 5785            | 1   | 18.506                       | /     | Pass    |
|                  |         | 5825            | 1   | 18.508                       | /     | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | 1   | 36.349                       | /     | Pass    |
|                  |         | 5230            | 1   | 36.199                       | /     | Pass    |
|                  |         | 5755            | 1   | 36.893                       | /     | Pass    |
|                  |         | 5795            | 1   | 36.957                       | /     | Pass    |

#### 2.1.2 26dB BW

| Mode             | TX Type | Frequency (MHz) | ANT | 26dB Bandwidth (MHz) |       | Verdict |
|------------------|---------|-----------------|-----|----------------------|-------|---------|
|                  |         |                 |     | Result               | Limit |         |
| 802.11a          | SISO    | 5180            | 1   | 22.737               | /     | Pass    |
|                  |         | 5200            | 1   | 22.534               | /     | Pass    |
|                  |         | 5240            | 1   | 22.056               | /     | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | 1   | 23.321               | /     | Pass    |
|                  |         | 5200            | 1   | 23.639               | /     | Pass    |
|                  |         | 5240            | 1   | 23.355               | /     | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | 1   | 43.325               | /     | Pass    |
|                  |         | 5230            | 1   | 43.839               | /     | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | 1   | 23.076               | /     | Pass    |
|                  |         | 5200            | 1   | 23.203               | /     | Pass    |
|                  |         | 5240            | 1   | 23.645               | /     | Pass    |

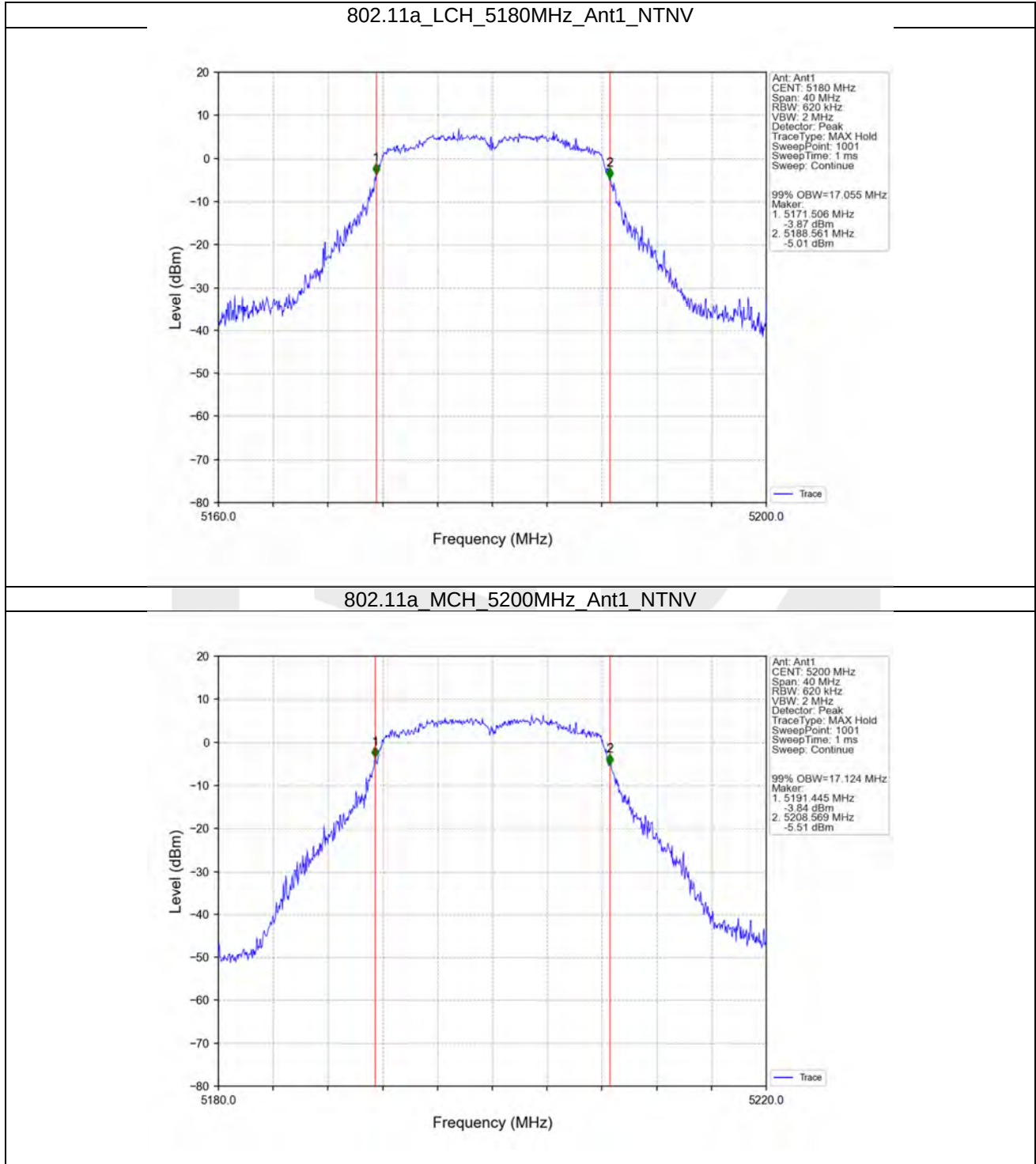
|                     |      |      |   |        |   |      |
|---------------------|------|------|---|--------|---|------|
| 802.11ac<br>(VHT40) | SISO | 5190 | 1 | 43.164 | / | Pass |
|                     |      | 5230 | 1 | 43.700 | / | Pass |

### 2.1.3 6dB BW

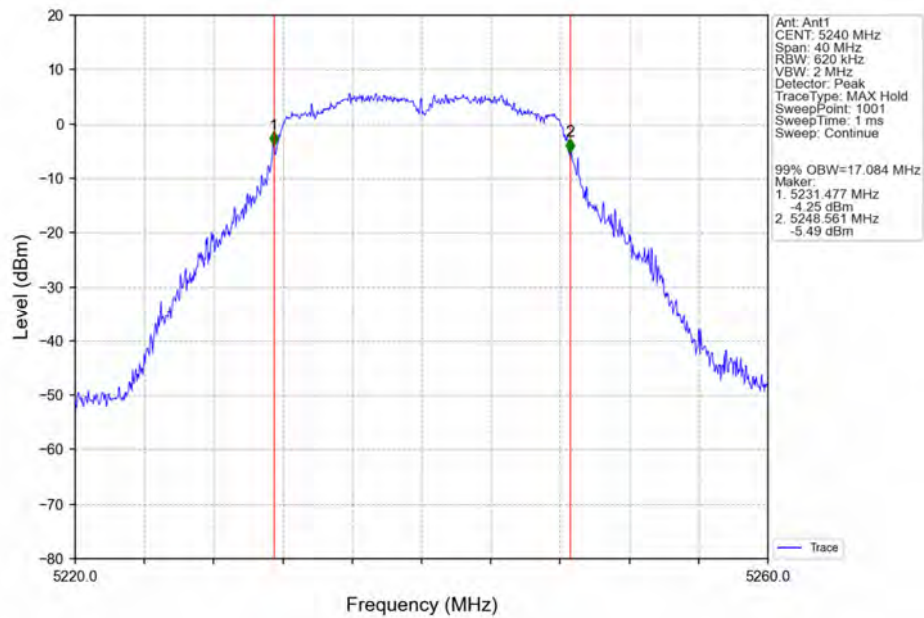
| Mode                | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|---------------------|---------|-----------------|-----|---------------------|------------|---------|
|                     |         |                 |     | Result              | Limit      |         |
| 802.11a             | SISO    | 5745            | 1   | 16.351              | $\geq 0.5$ | Pass    |
|                     |         | 5785            | 1   | 16.346              | $\geq 0.5$ | Pass    |
|                     |         | 5825            | 1   | 16.350              | $\geq 0.5$ | Pass    |
| 802.11n<br>(HT20)   | SISO    | 5745            | 1   | 17.617              | $\geq 0.5$ | Pass    |
|                     |         | 5785            | 1   | 17.590              | $\geq 0.5$ | Pass    |
|                     |         | 5825            | 1   | 17.561              | $\geq 0.5$ | Pass    |
| 802.11n<br>(HT40)   | SISO    | 5755            | 1   | 36.327              | $\geq 0.5$ | Pass    |
|                     |         | 5795            | 1   | 36.322              | $\geq 0.5$ | Pass    |
| 802.11ac<br>(VHT20) | SISO    | 5745            | 1   | 17.556              | $\geq 0.5$ | Pass    |
|                     |         | 5785            | 1   | 17.557              | $\geq 0.5$ | Pass    |
|                     |         | 5825            | 1   | 17.542              | $\geq 0.5$ | Pass    |
| 802.11ac<br>(VHT40) | SISO    | 5755            | 1   | 36.329              | $\geq 0.5$ | Pass    |
|                     |         | 5795            | 1   | 36.325              | $\geq 0.5$ | Pass    |

## 2.2 Test Graph

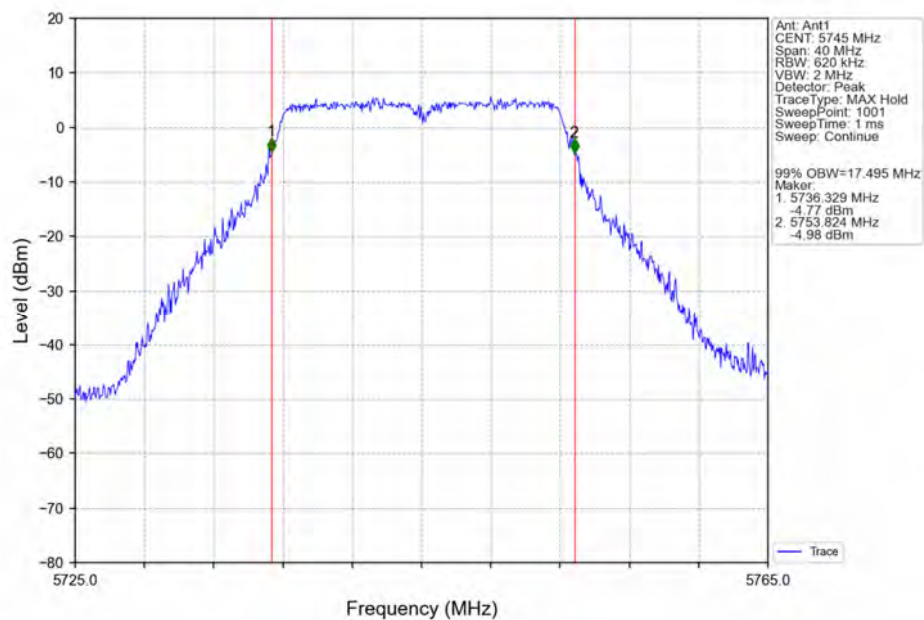
### 2.2.1 OBW



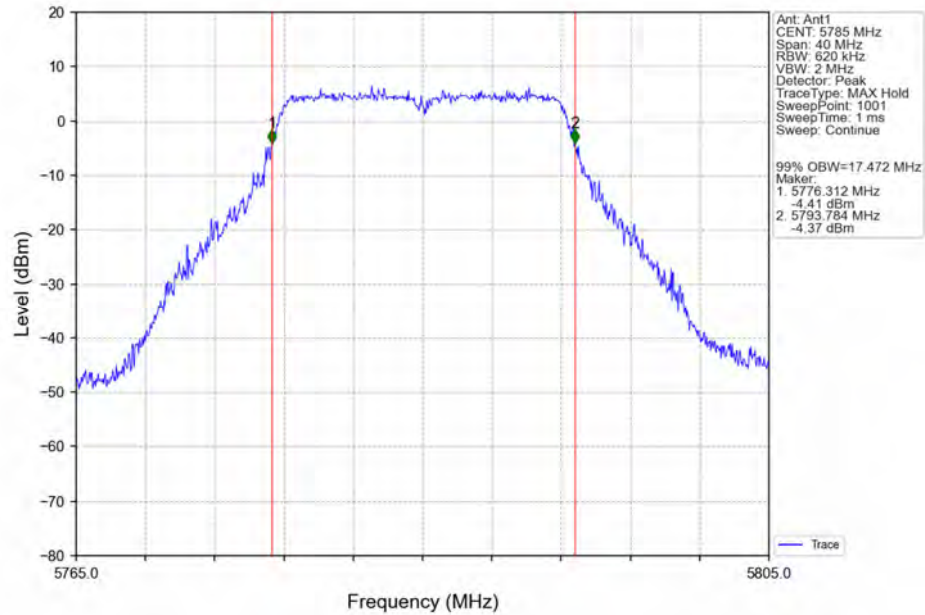
802.11a HCH\_5240MHz\_Ant1\_NTNV



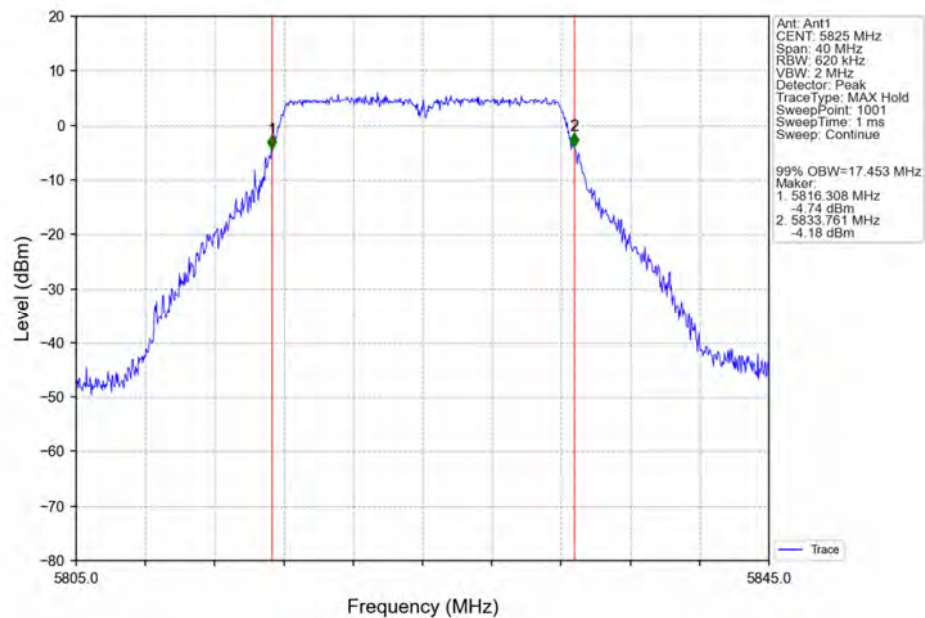
802.11a LCH\_5745MHz\_Ant1\_NTNV



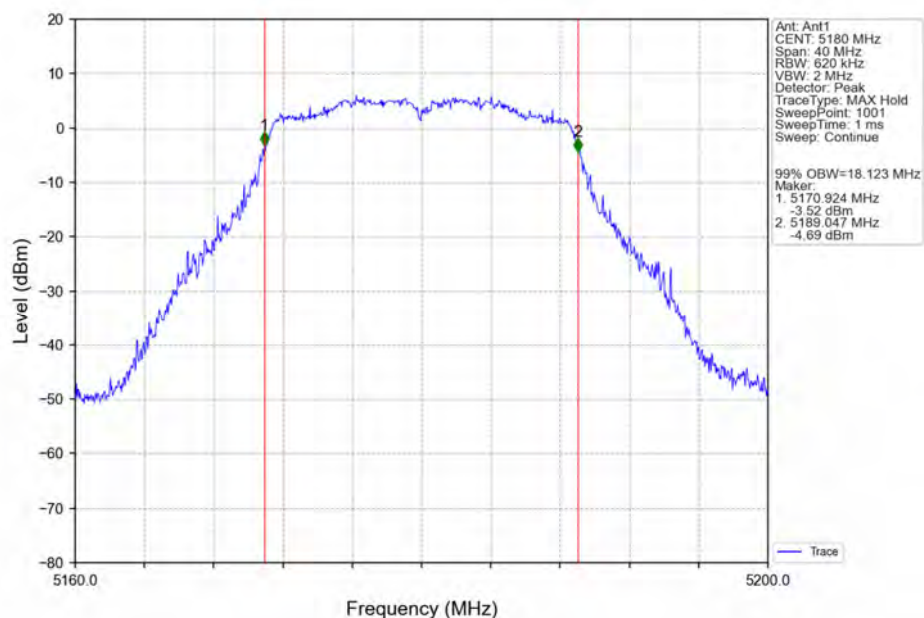
802.11a MCH\_5785MHz\_Ant1\_NTNV



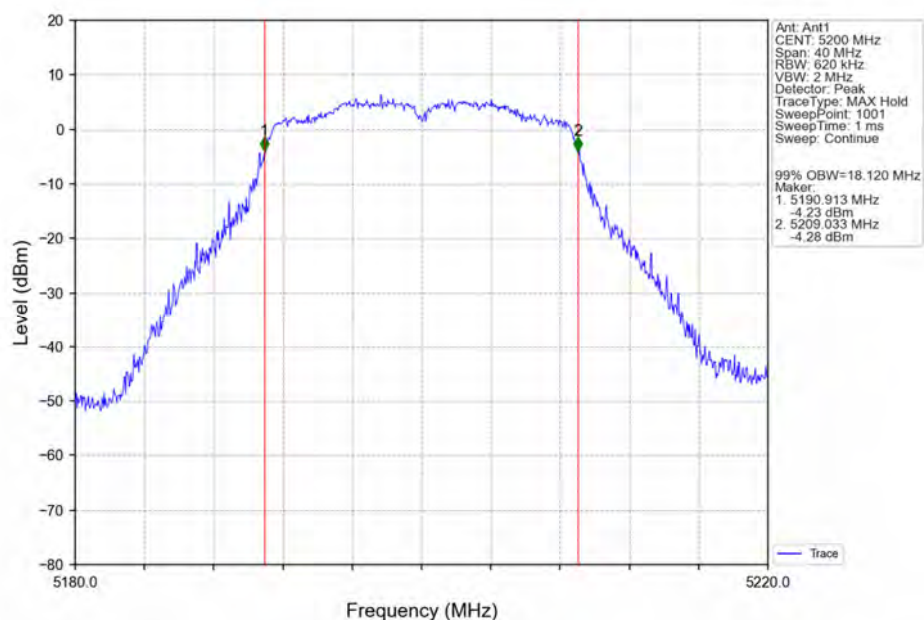
802.11a HCH\_5825MHz\_Ant1\_NTNV



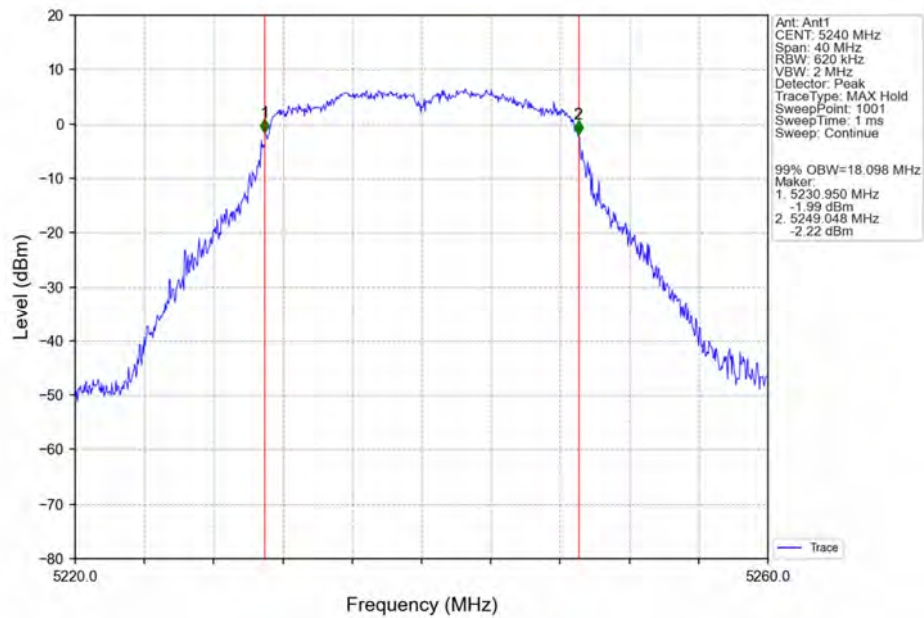
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



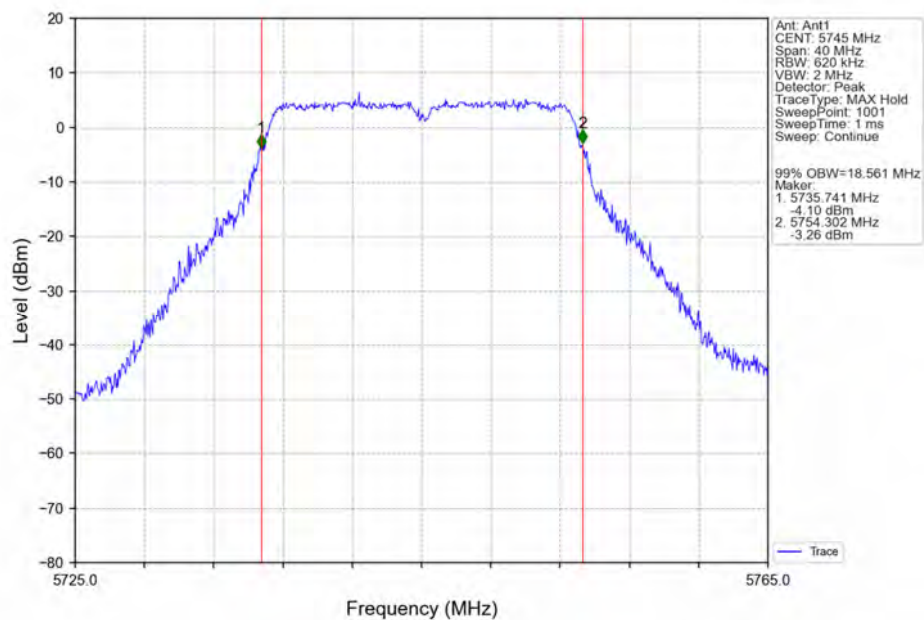
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



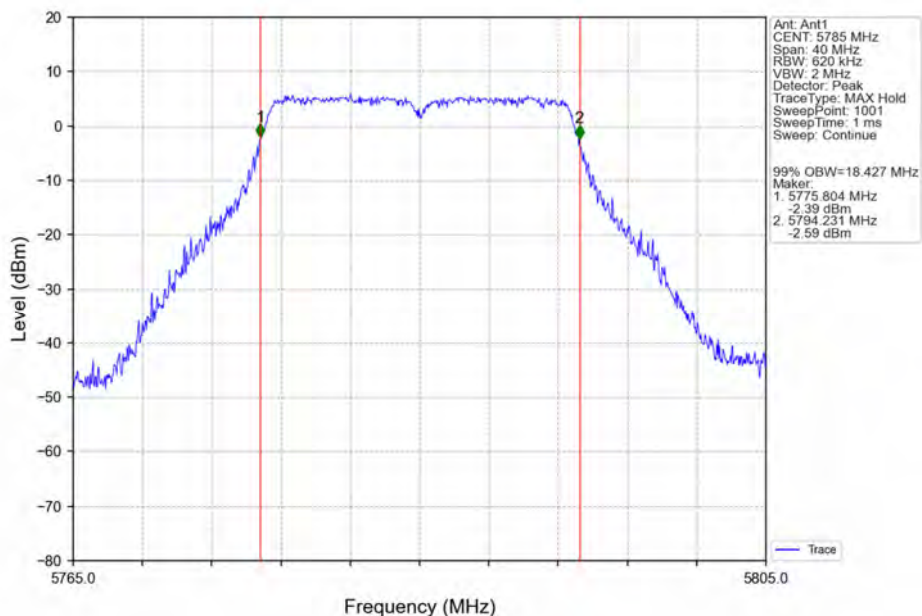
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



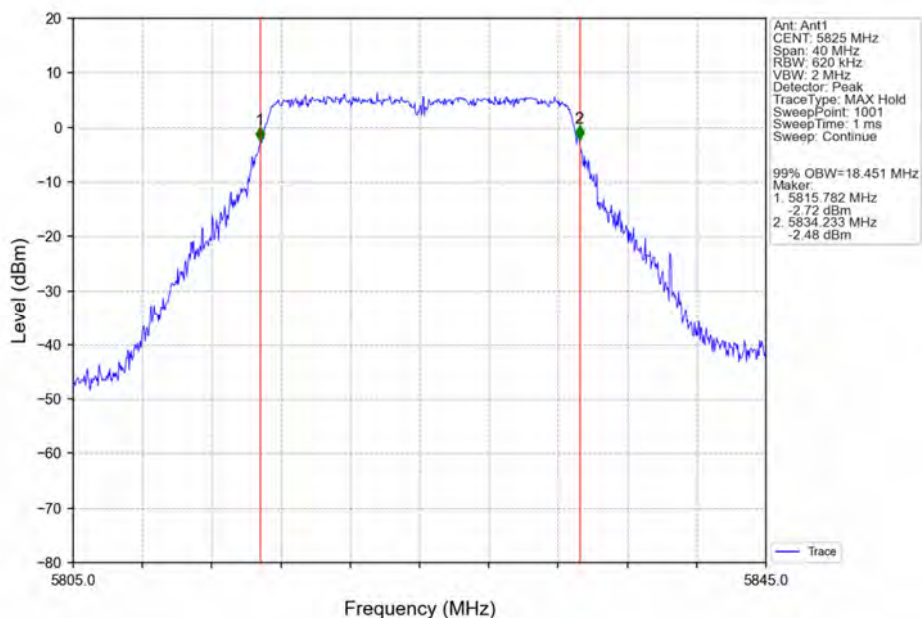
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



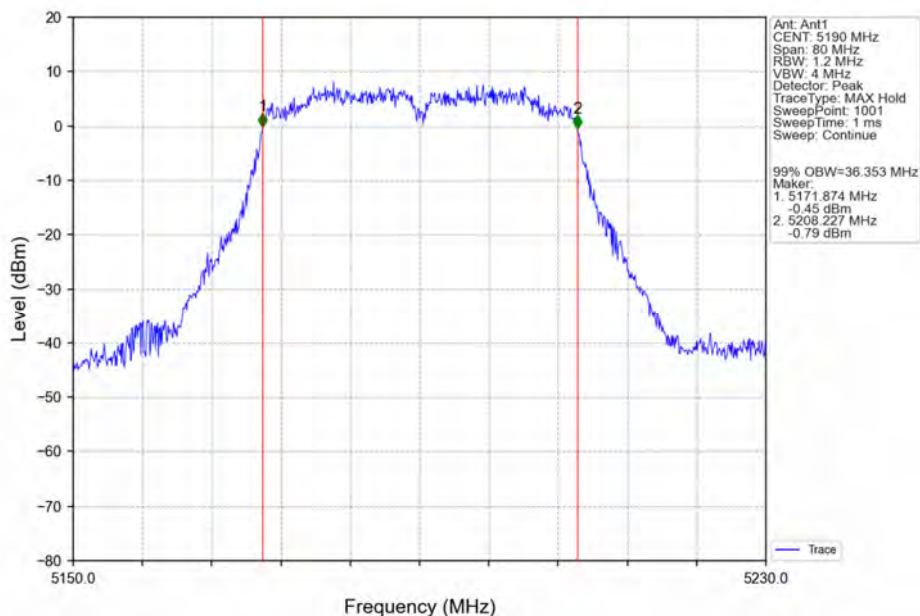
802.11n(HT20)\_MCH 5785MHz\_Ant1\_NTNV



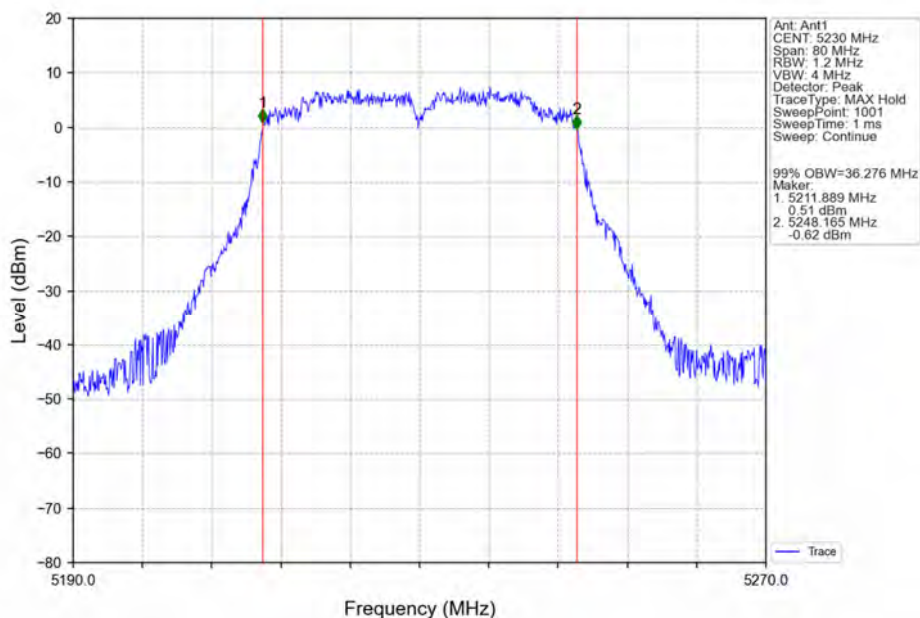
802.11n(HT20)\_HCH 5825MHz\_Ant1\_NTNV



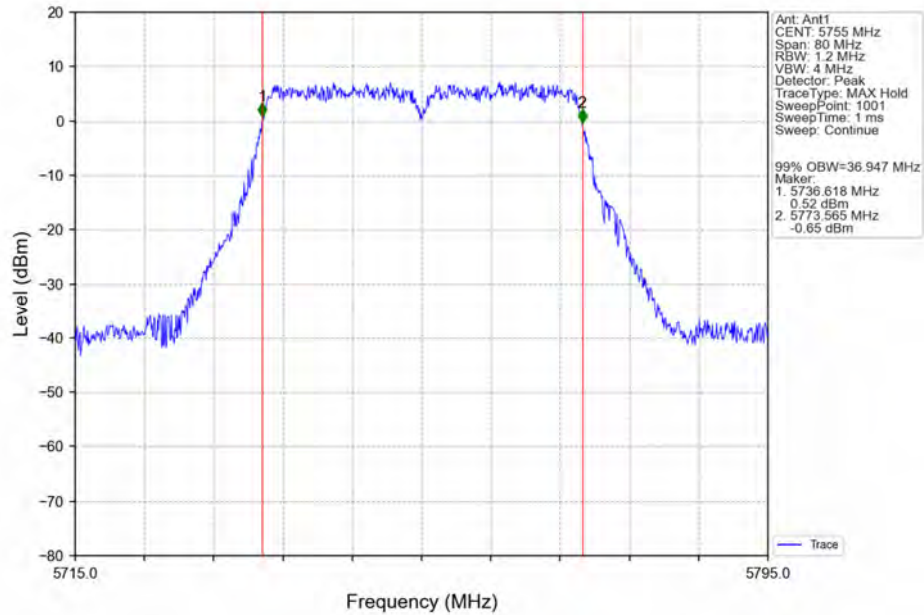
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



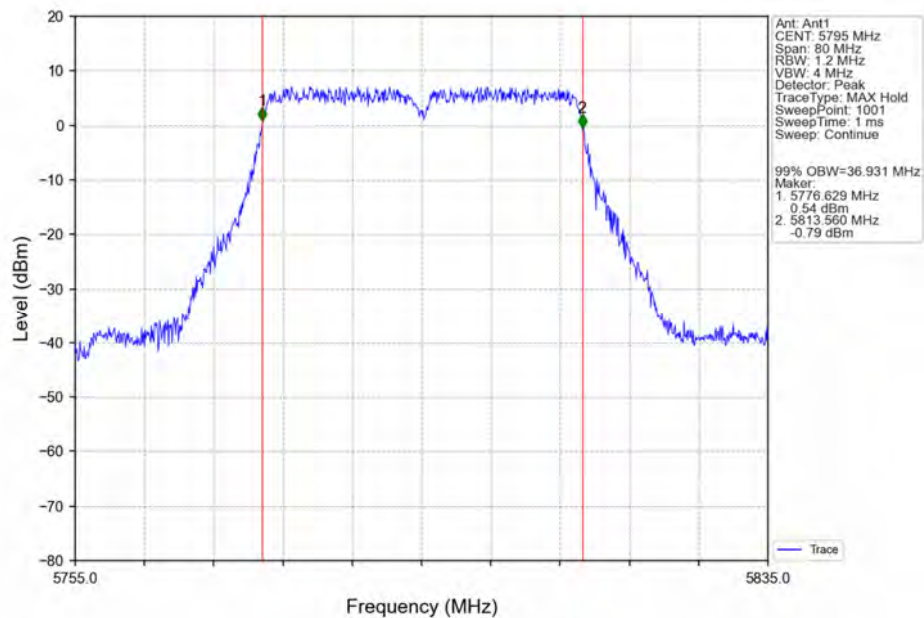
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



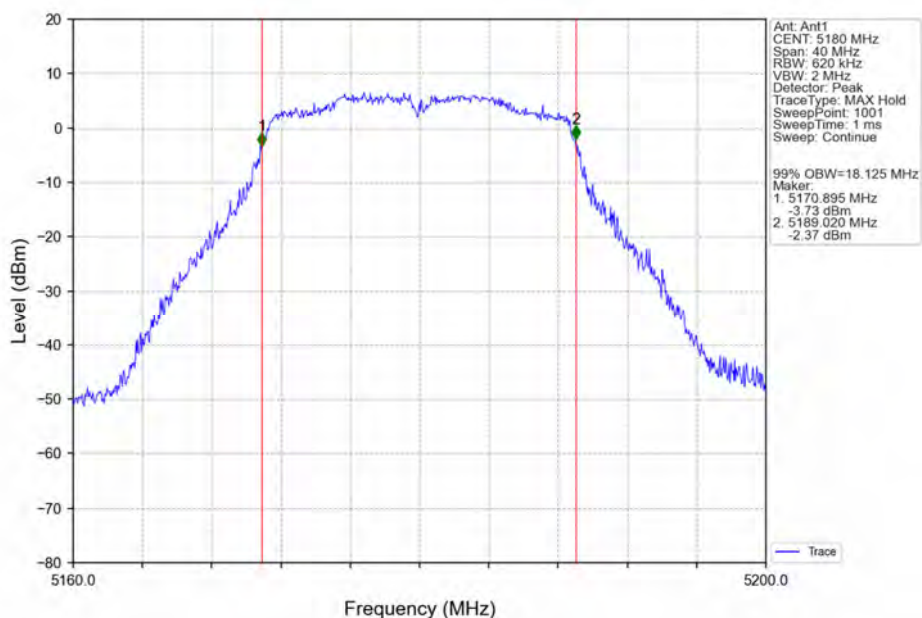
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



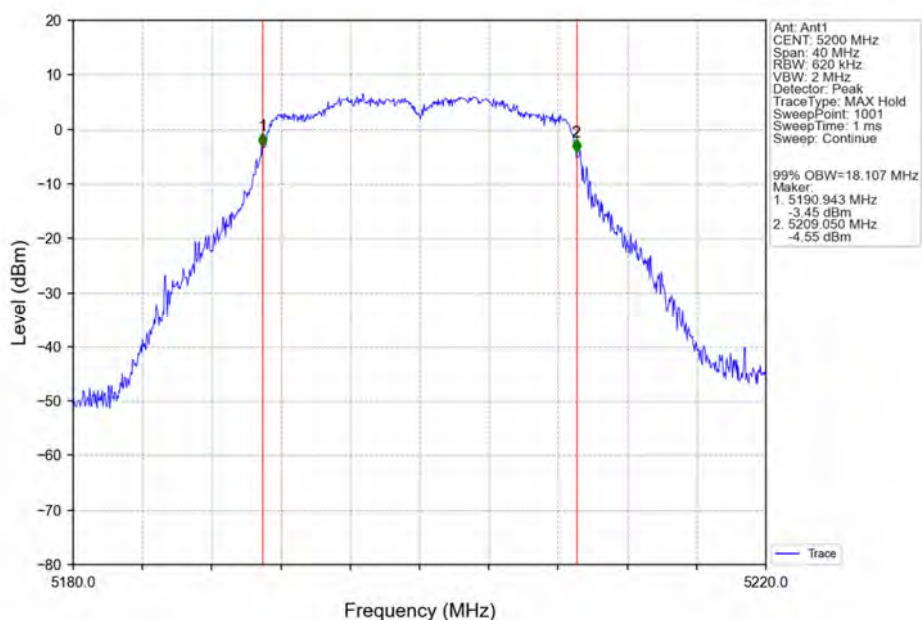
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



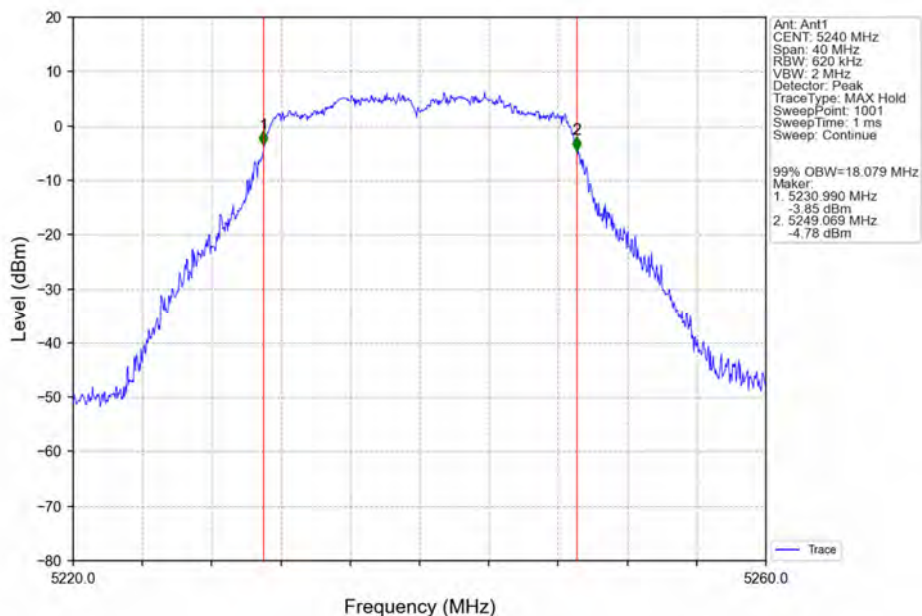
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



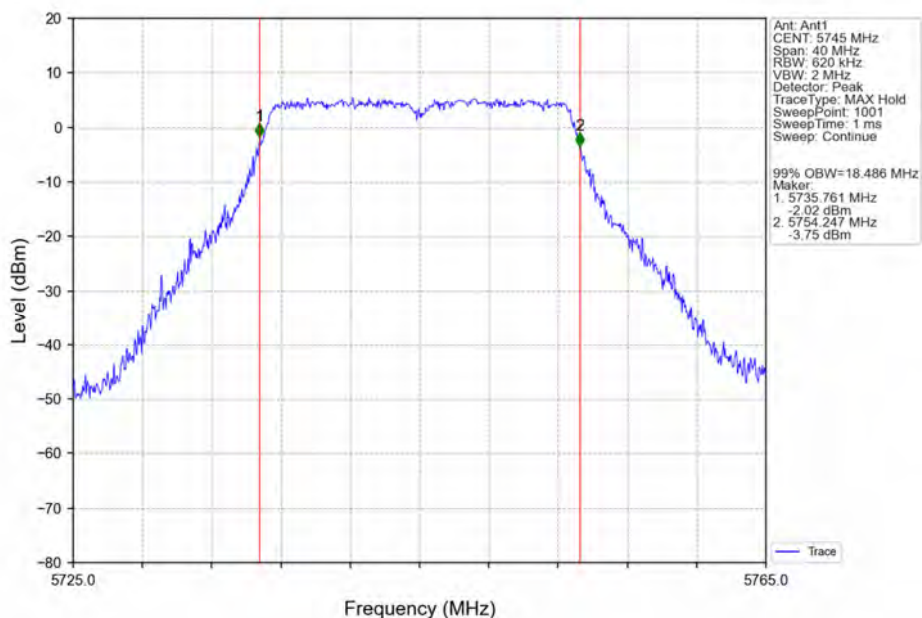
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



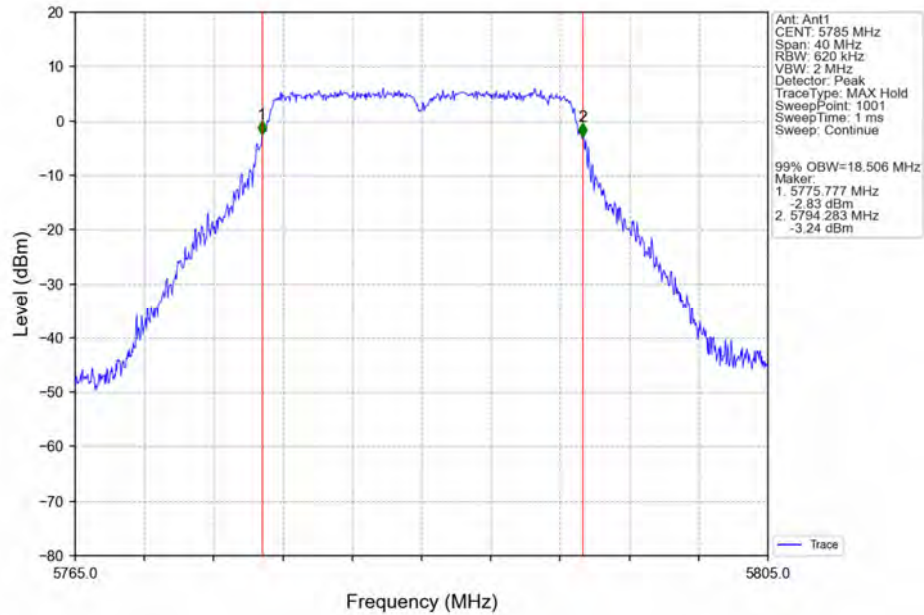
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



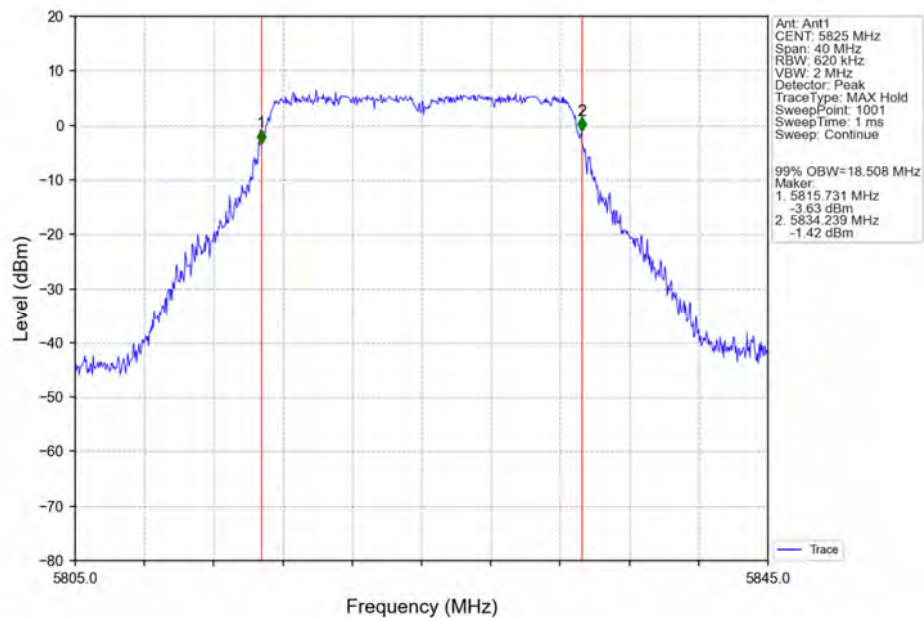
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



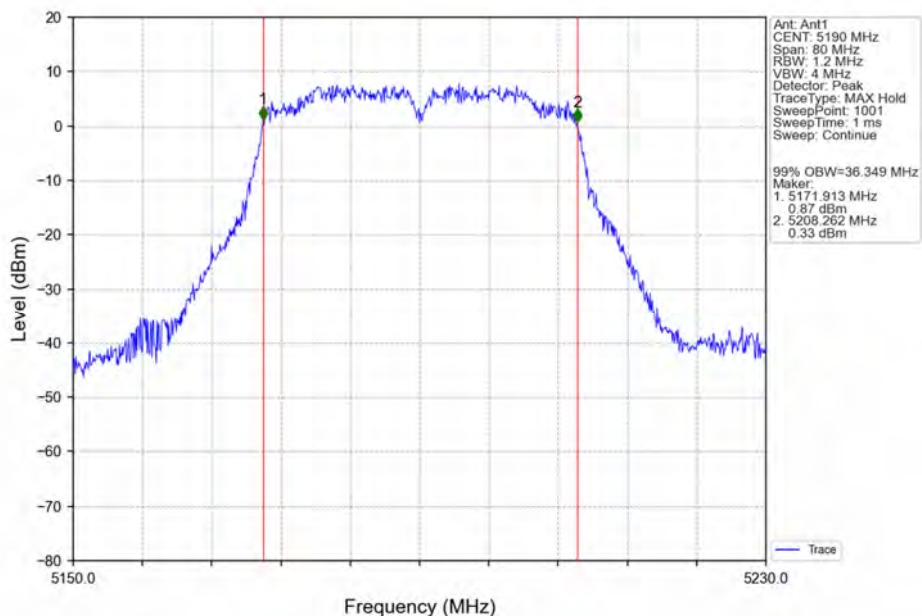
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



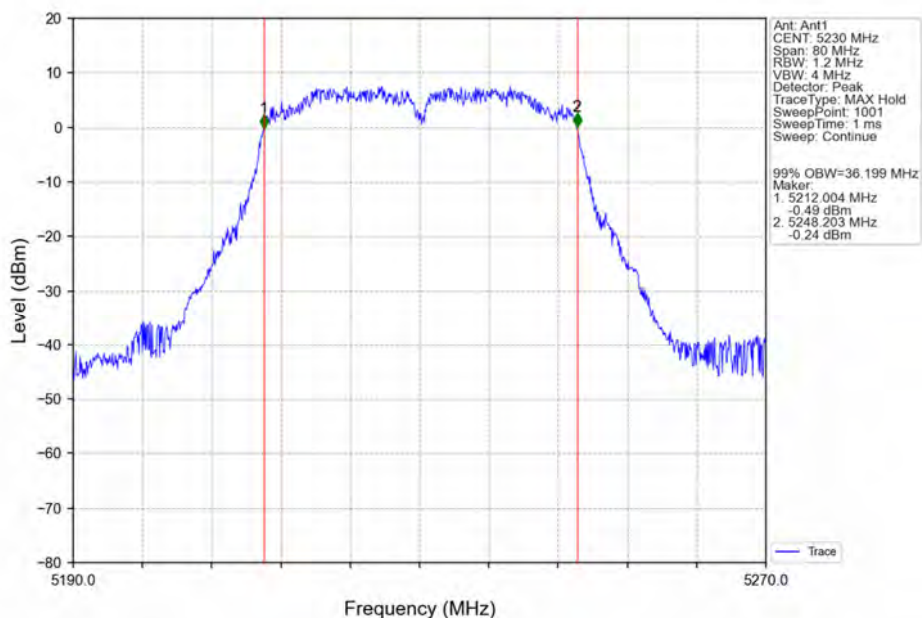
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



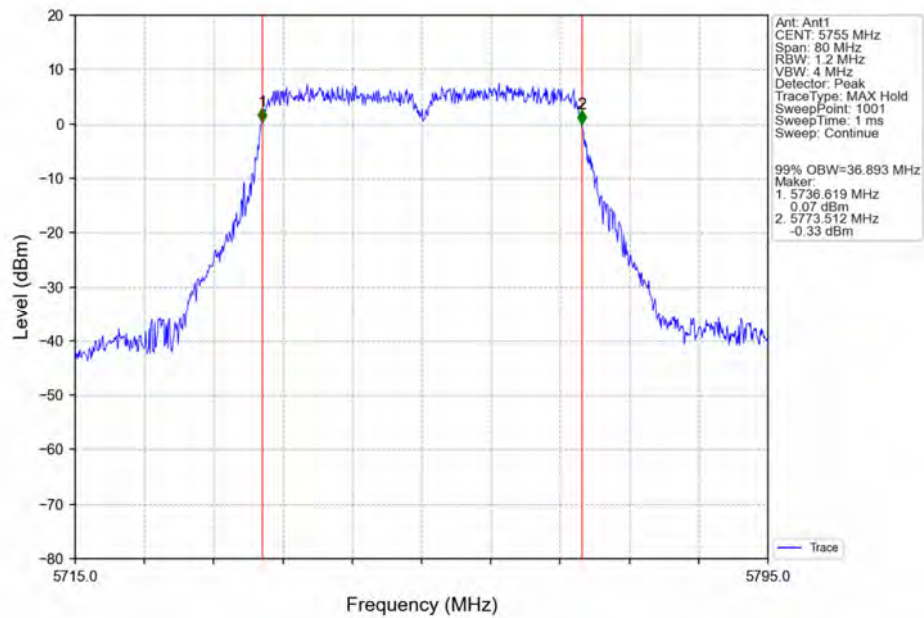
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



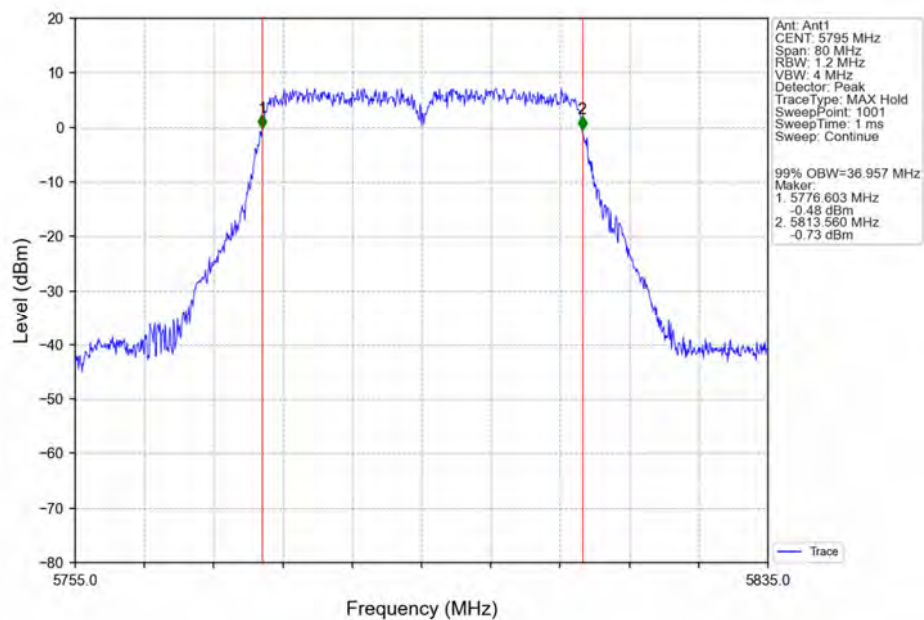
802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



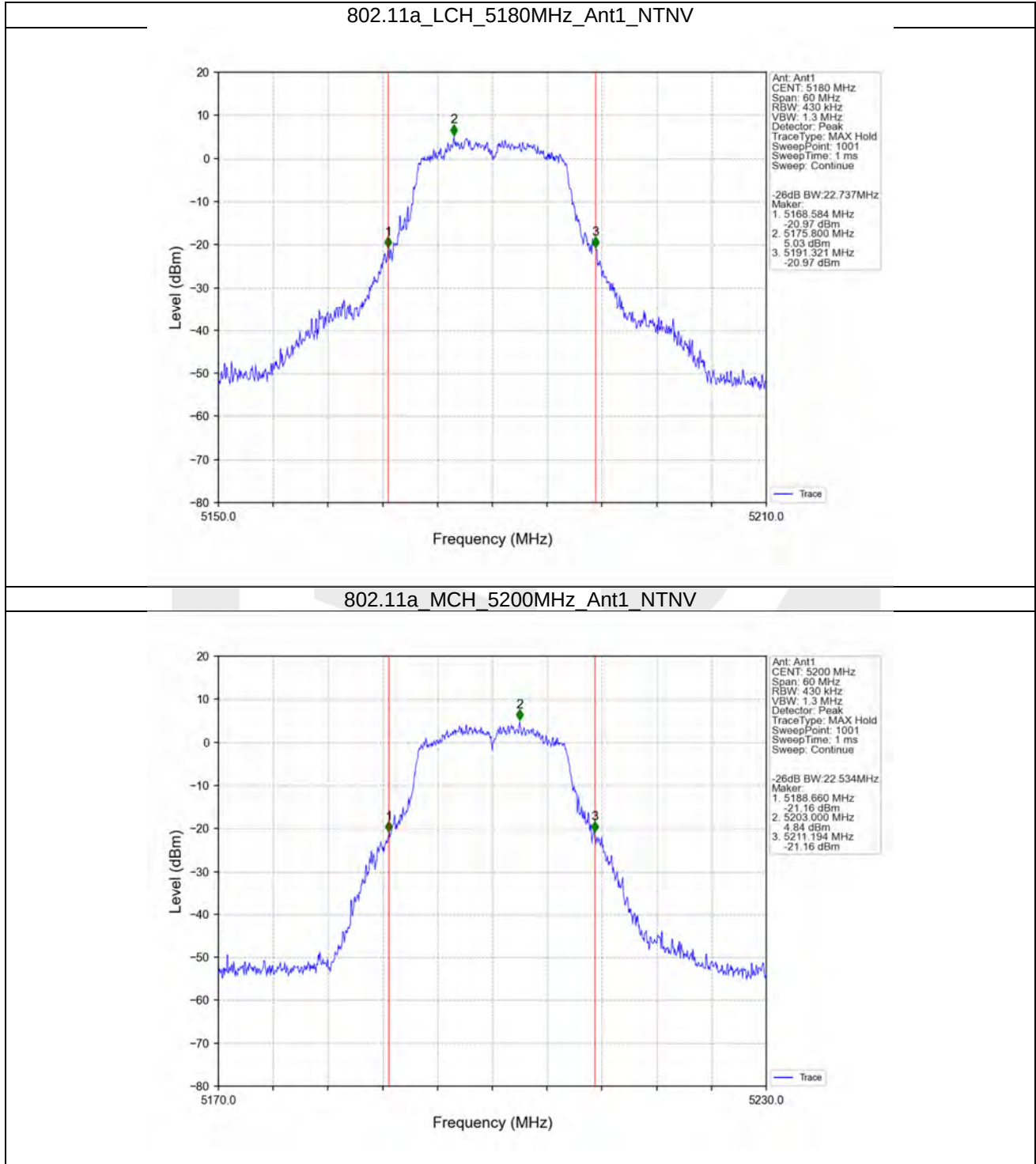
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



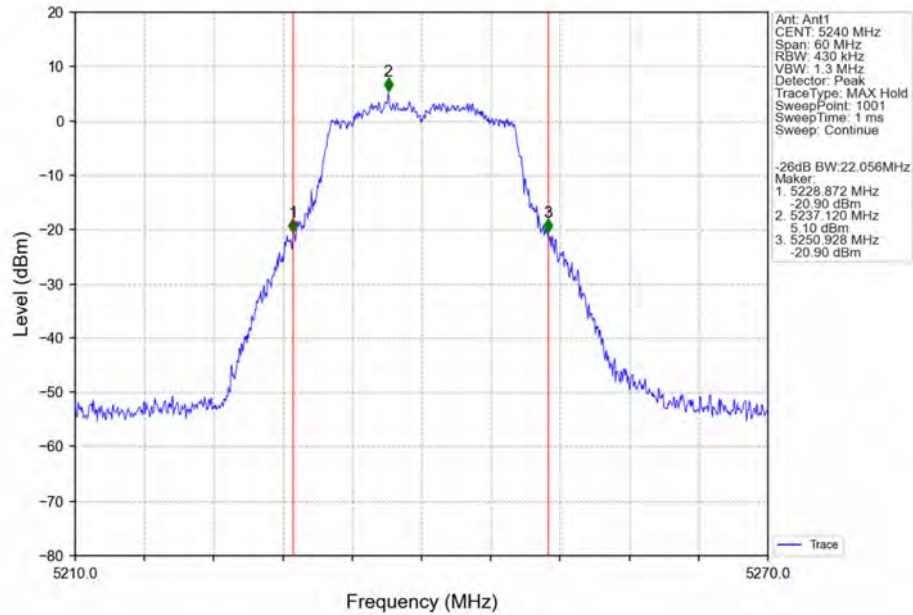
802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



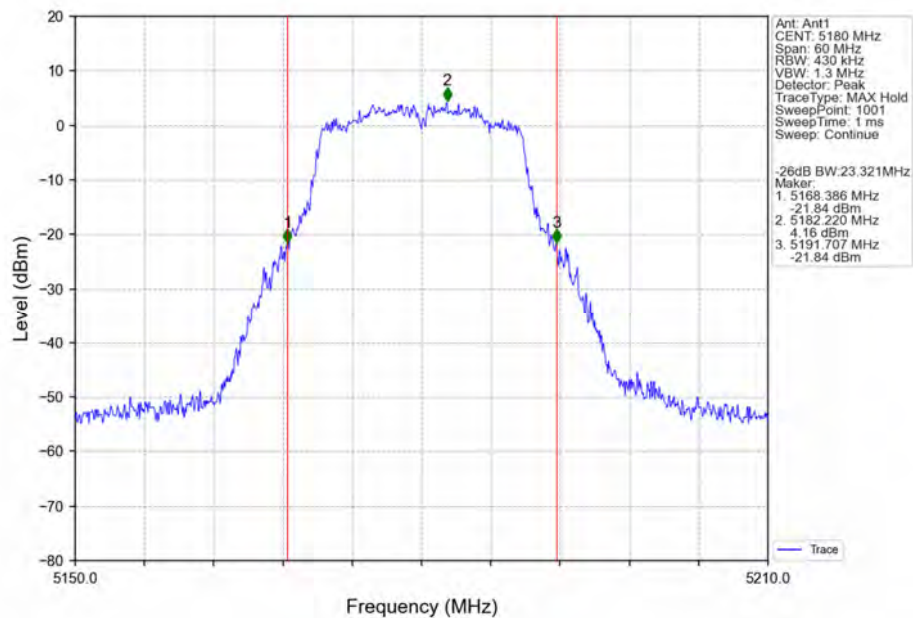
## 2.2.2 26dB BW



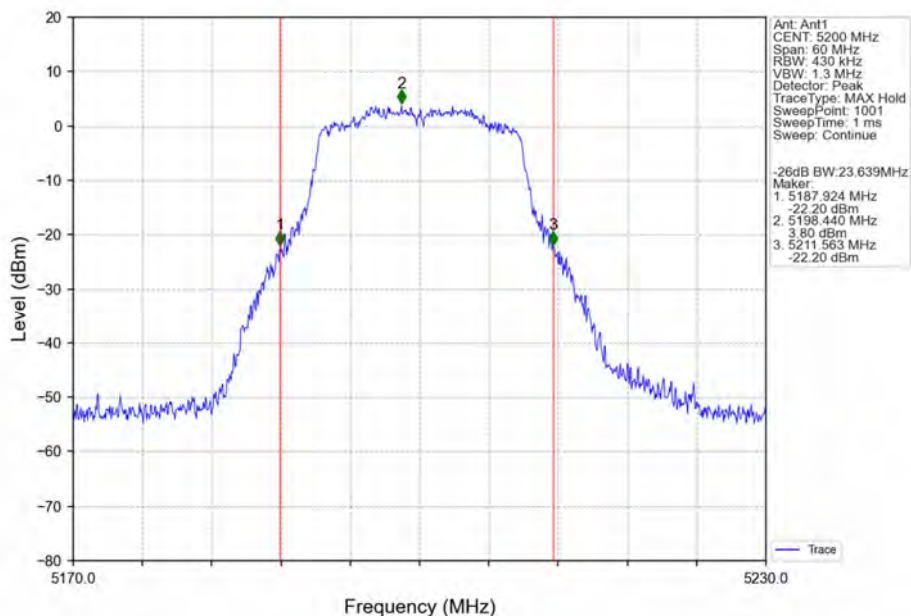
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



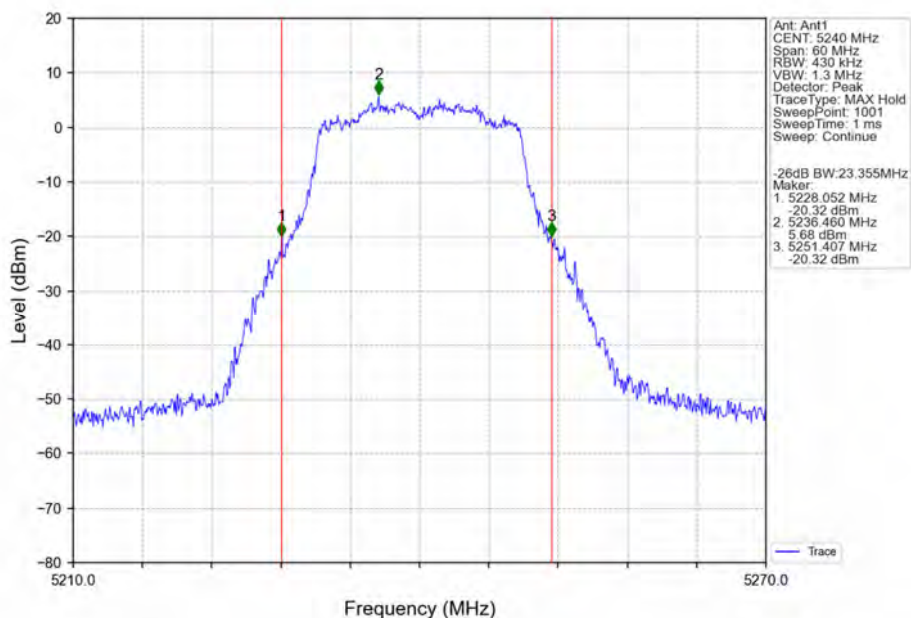
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



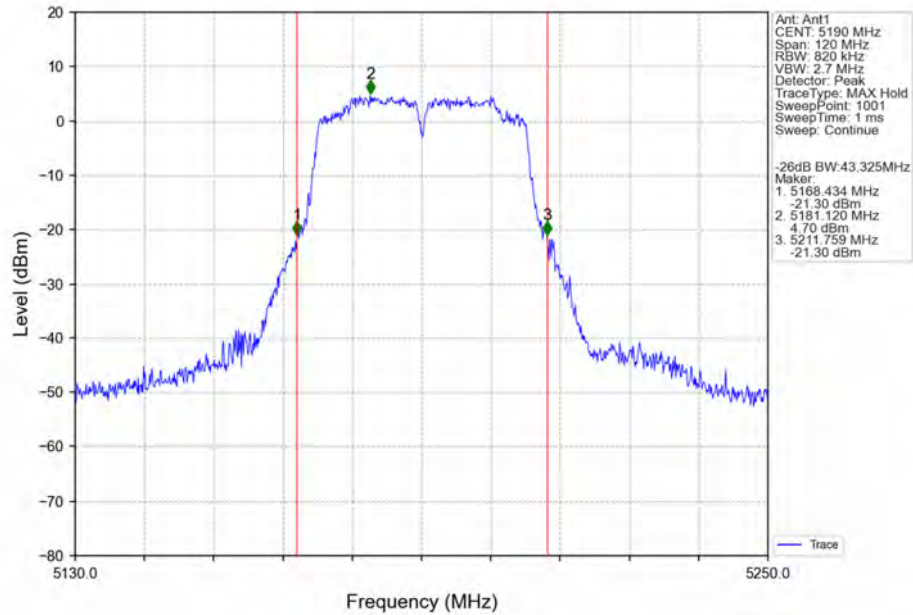
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



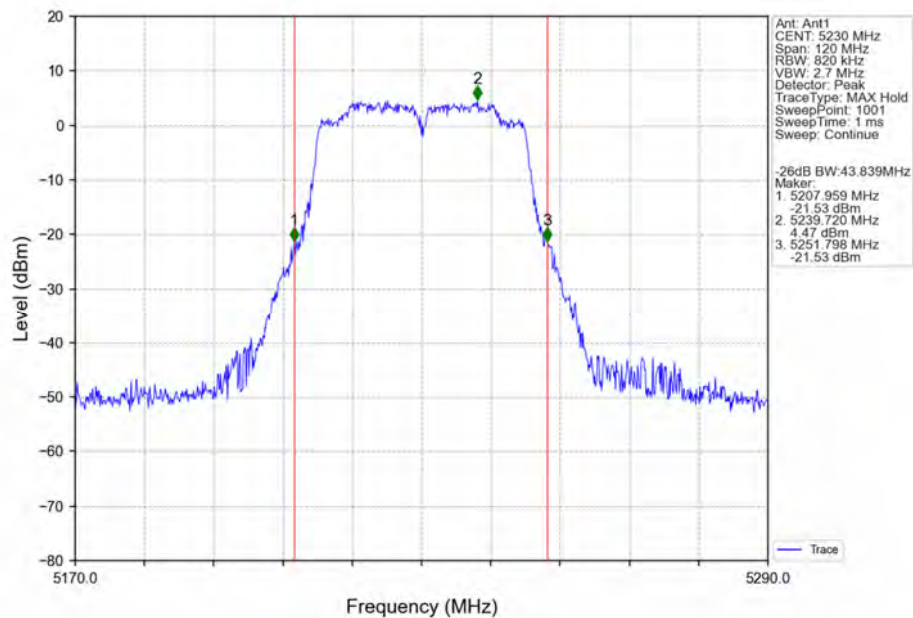
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



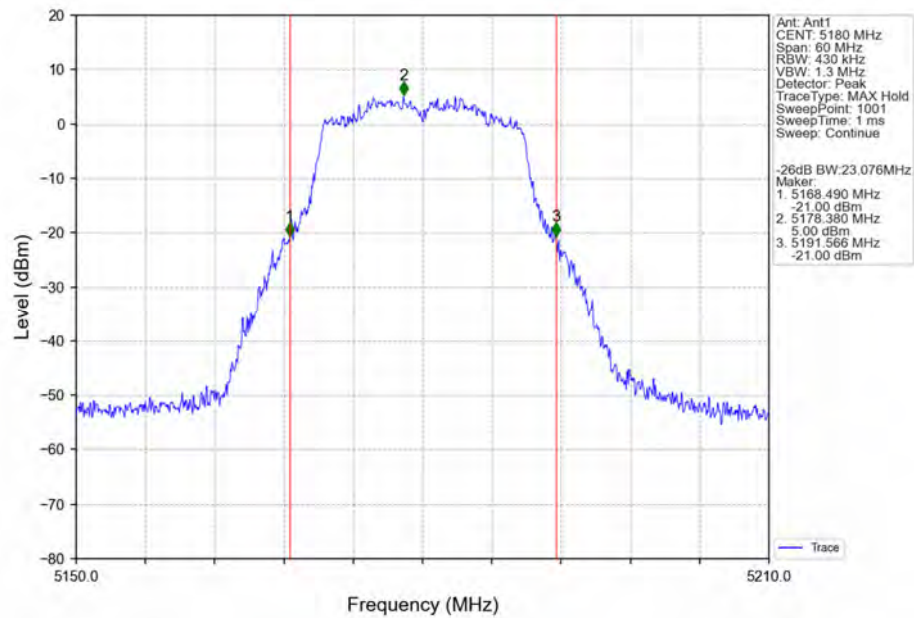
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



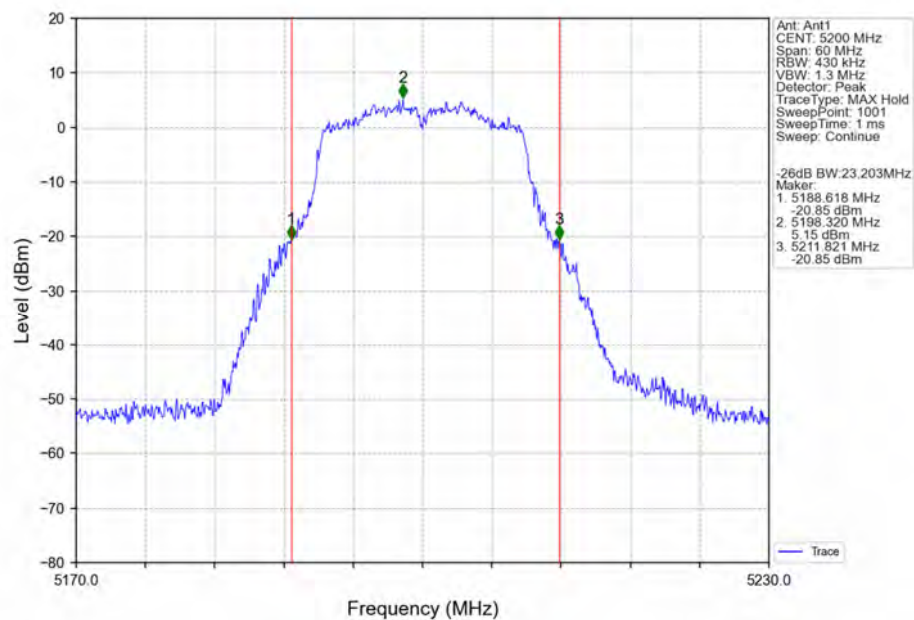
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



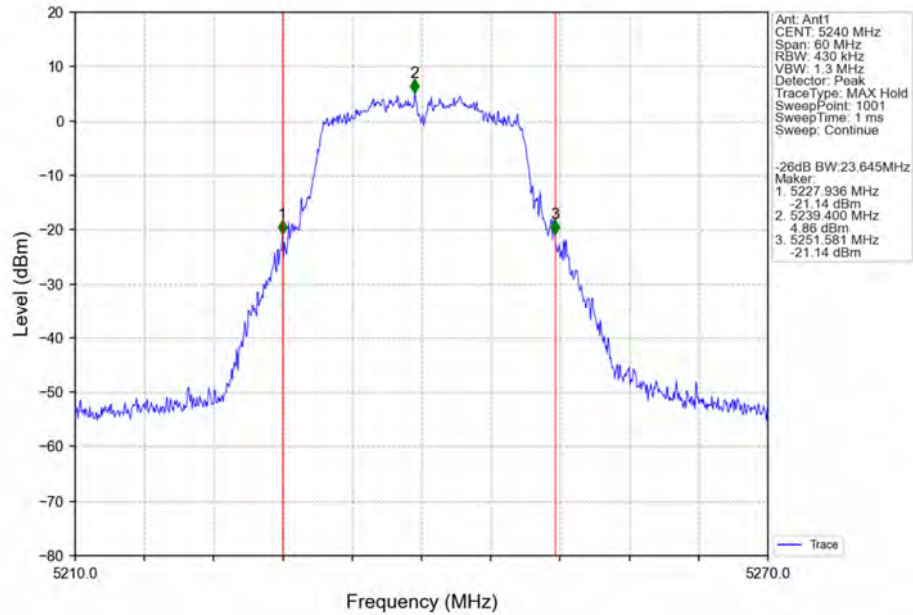
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



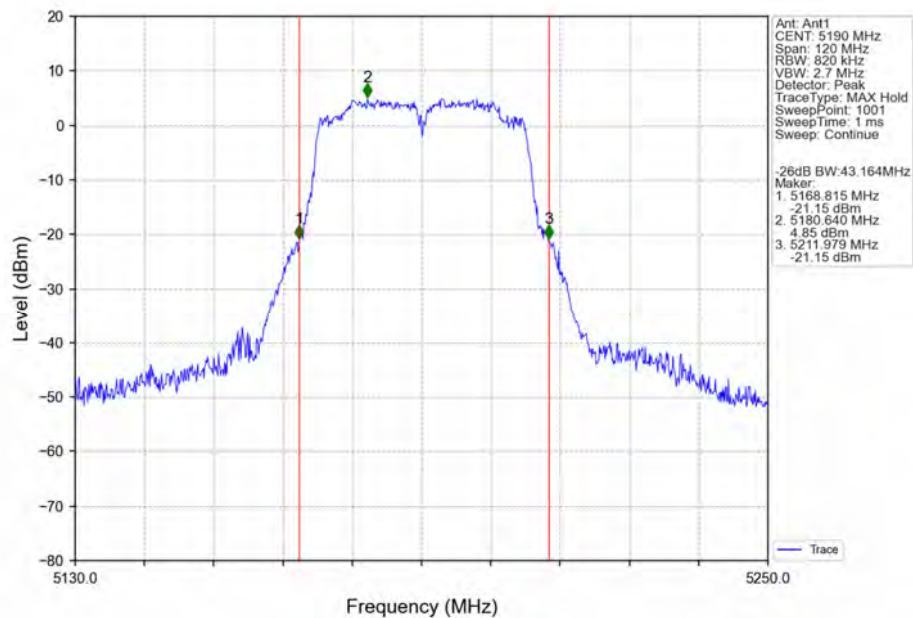
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV

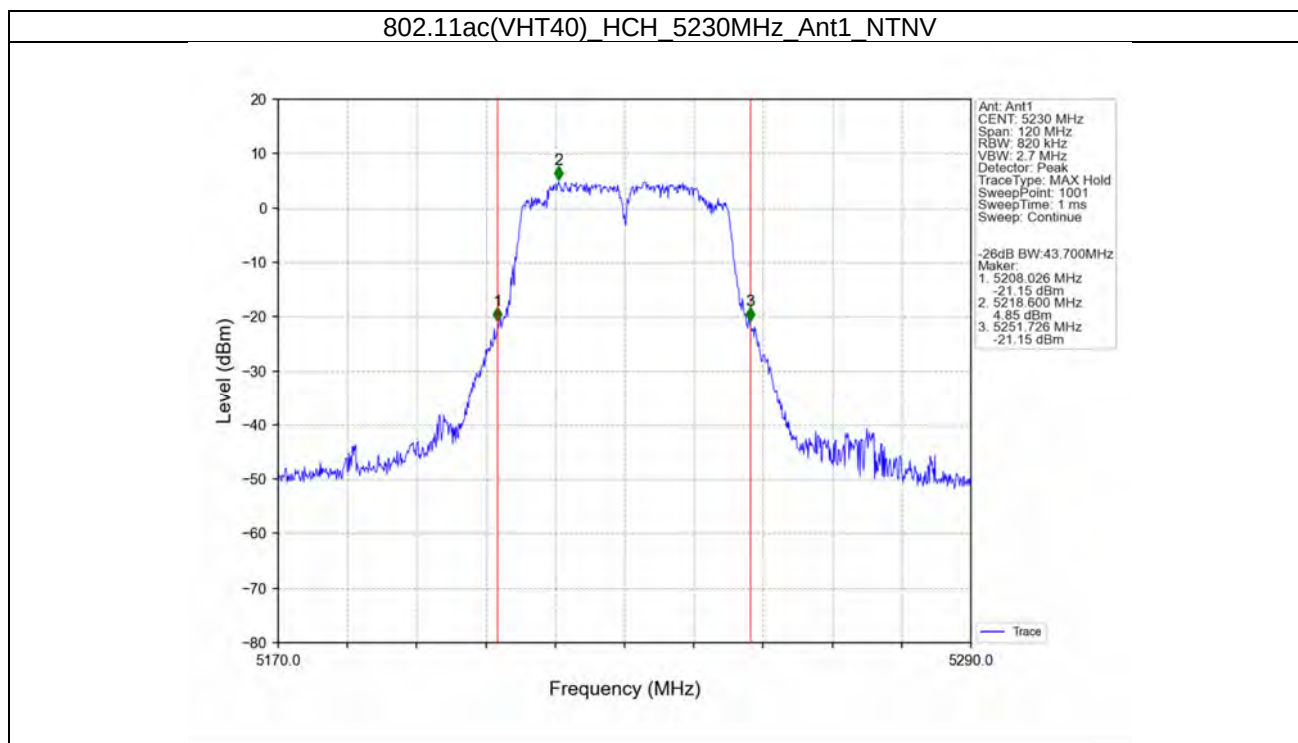


802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV





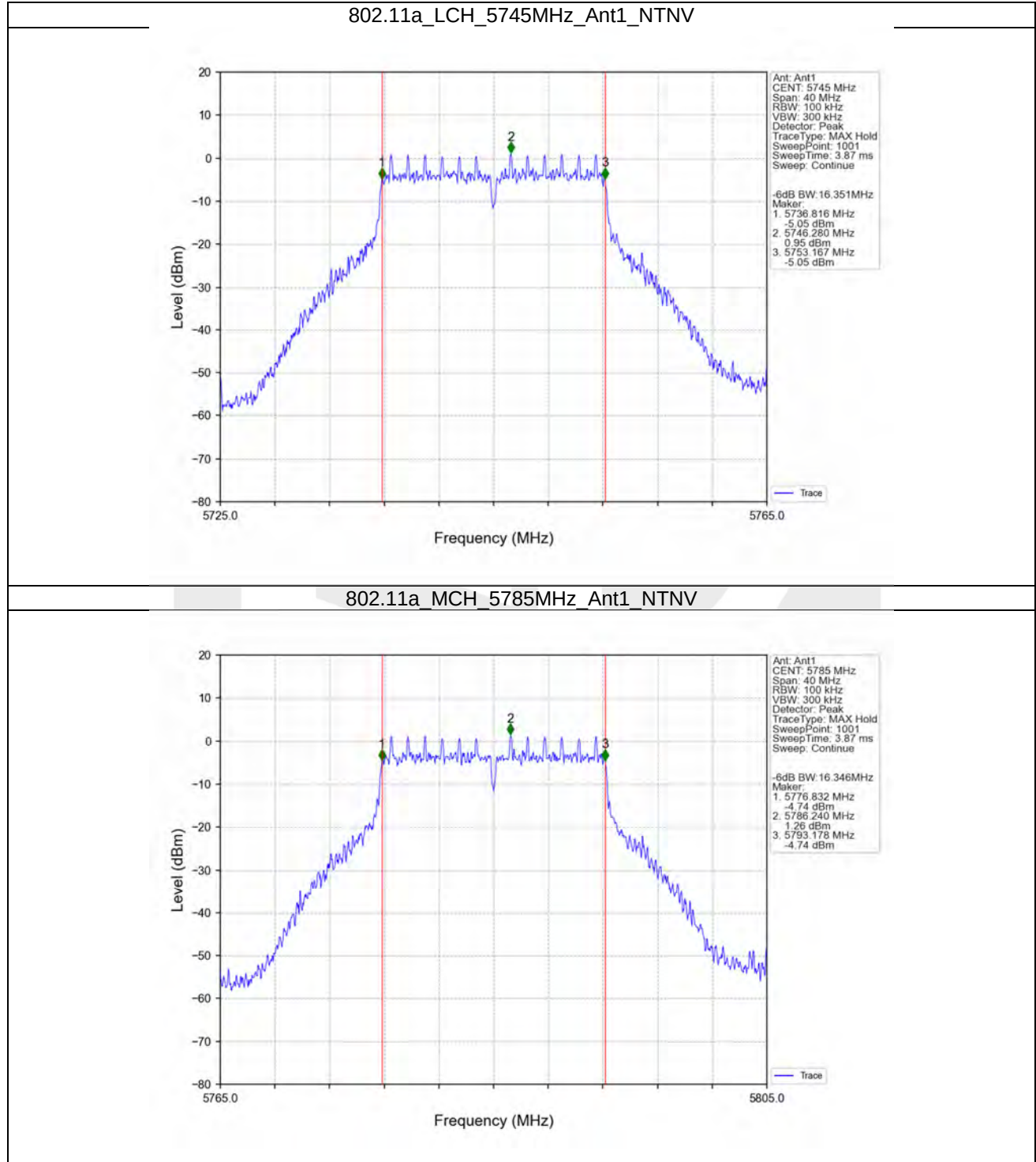
## SHENZHEN EU TESTING LABORATORY LIMITED

Address: 101, Building B1, Fuqiao Fourth Area, Qiaotou Community,  
 Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China

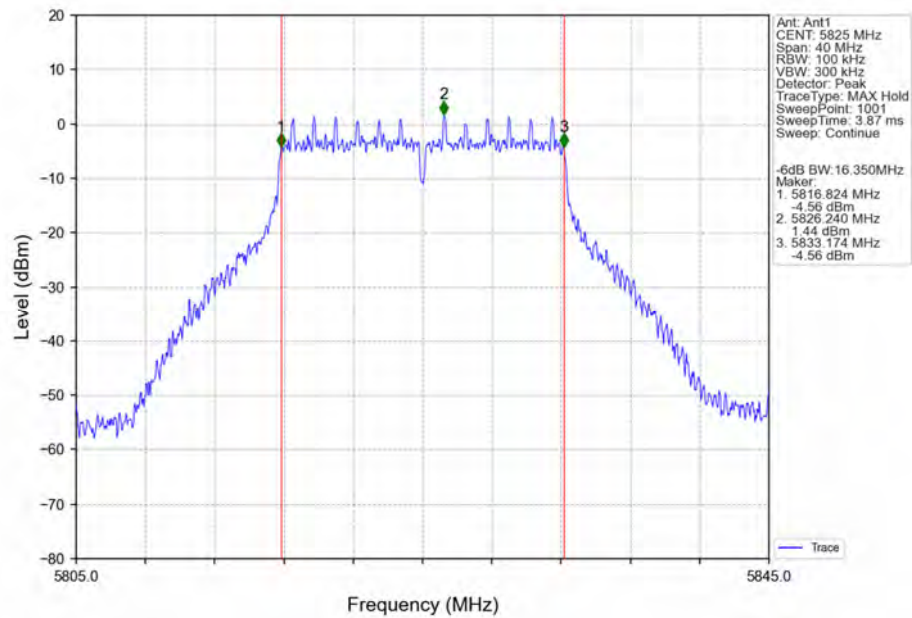
Website: [www.eu-test.com](http://www.eu-test.com)

Tel: (86)-755-2357-9714 Email: [Service@eu-test.com](mailto:Service@eu-test.com)

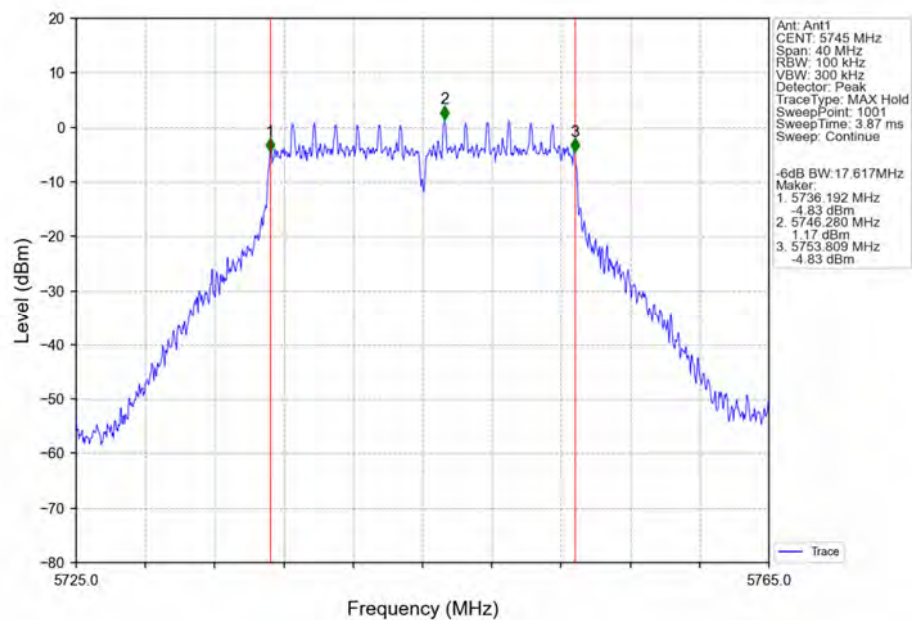
### 2.2.3 6dB BW



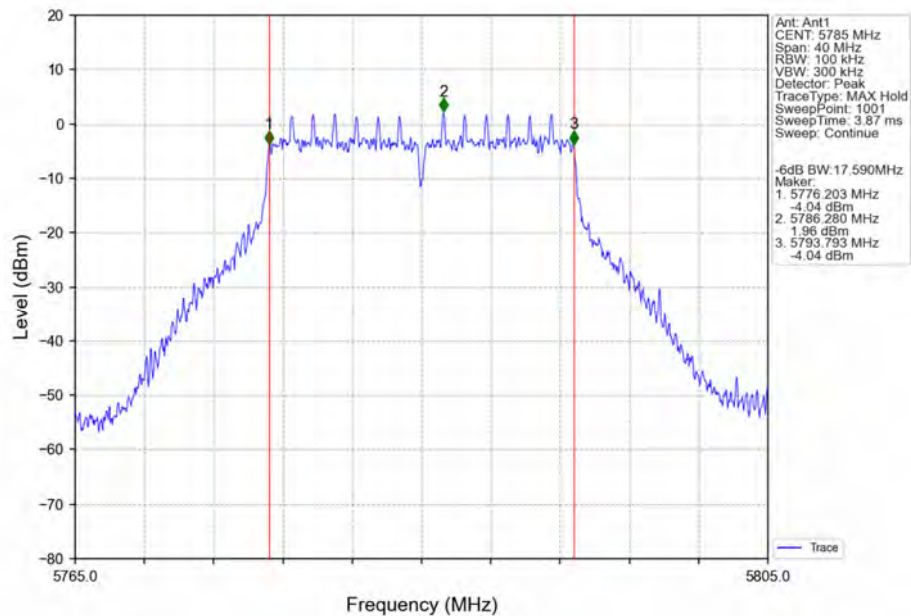
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



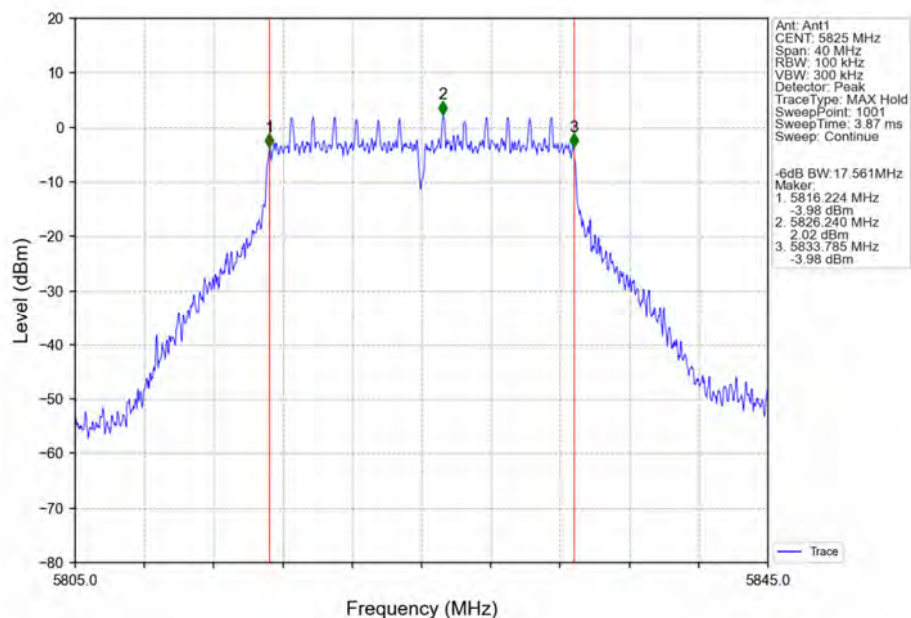
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



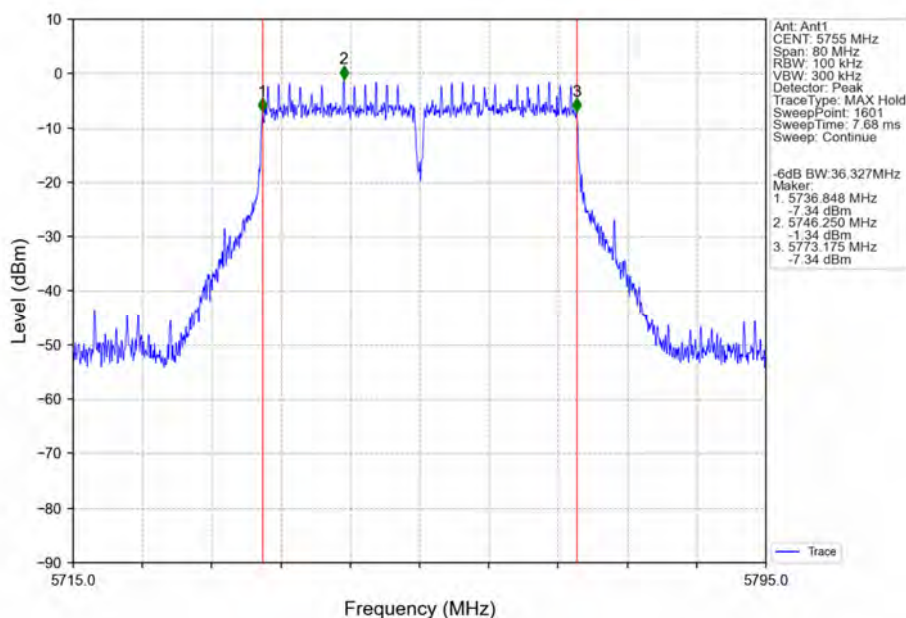
802.11n(HT20)\_MCH 5785MHz\_Ant1\_NTNV



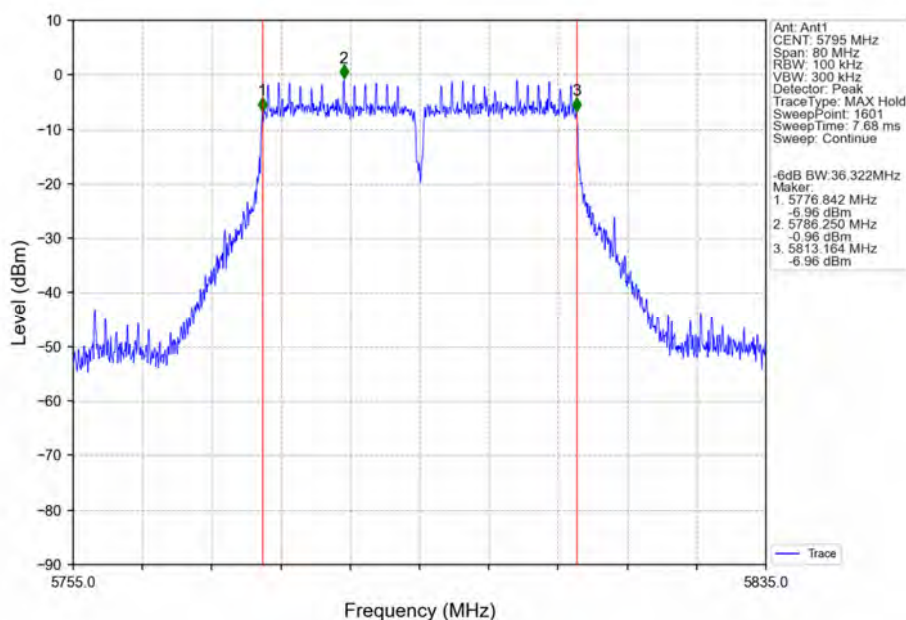
802.11n(HT20)\_HCH 5825MHz\_Ant1\_NTNV



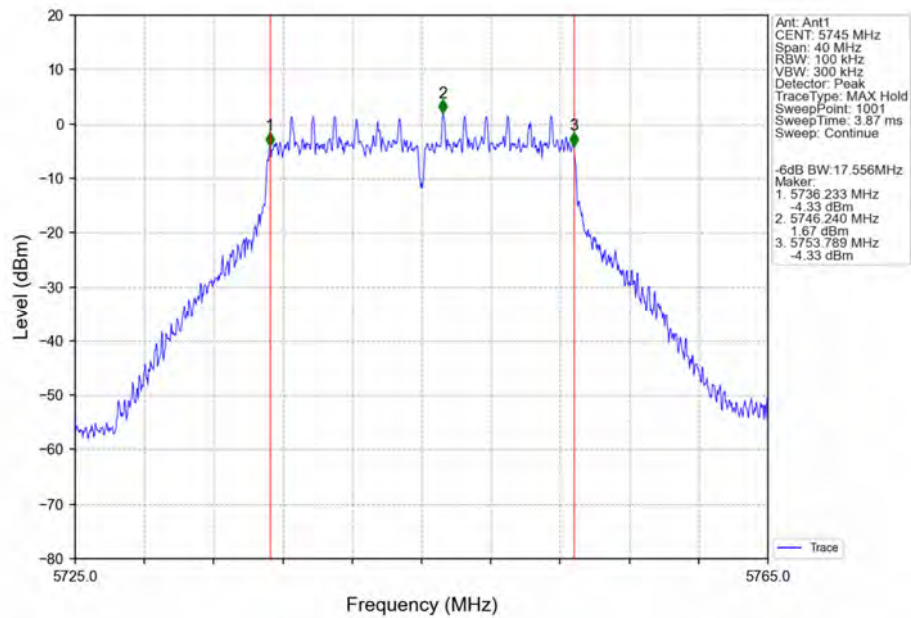
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



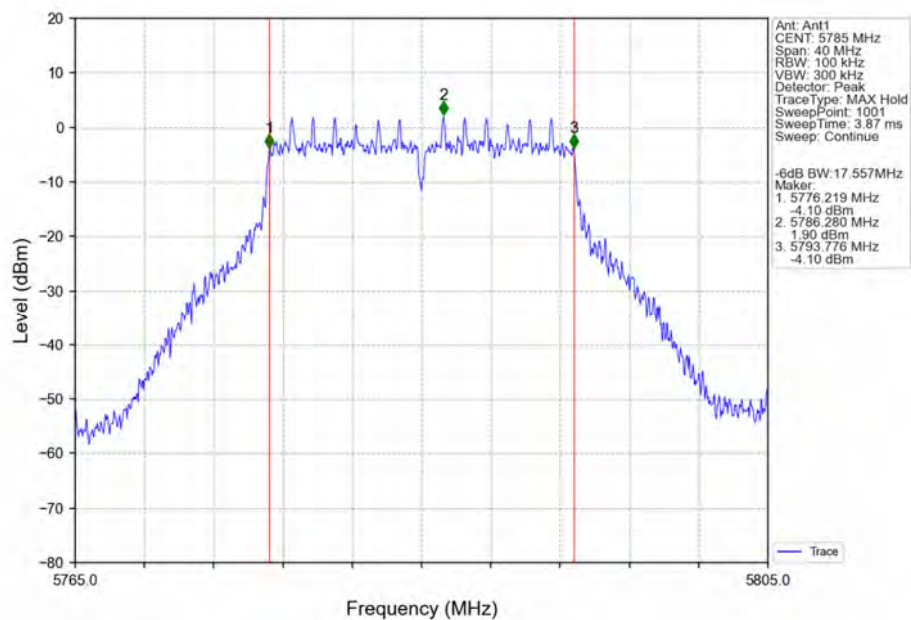
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



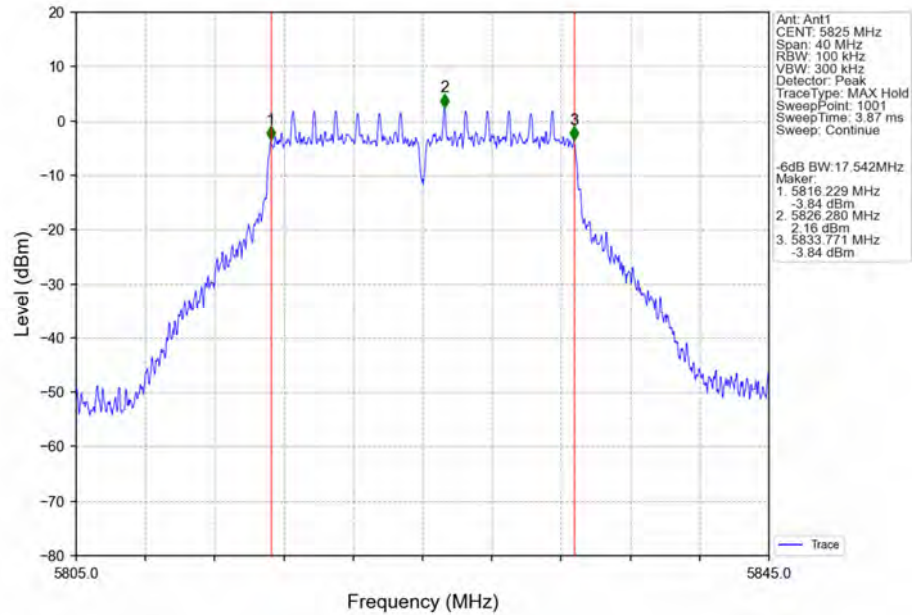
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



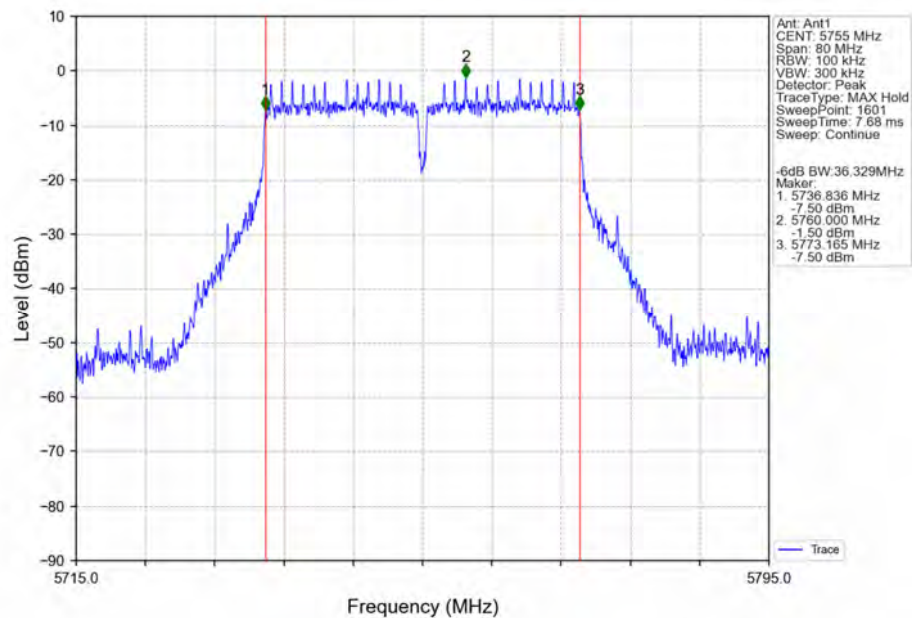
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV

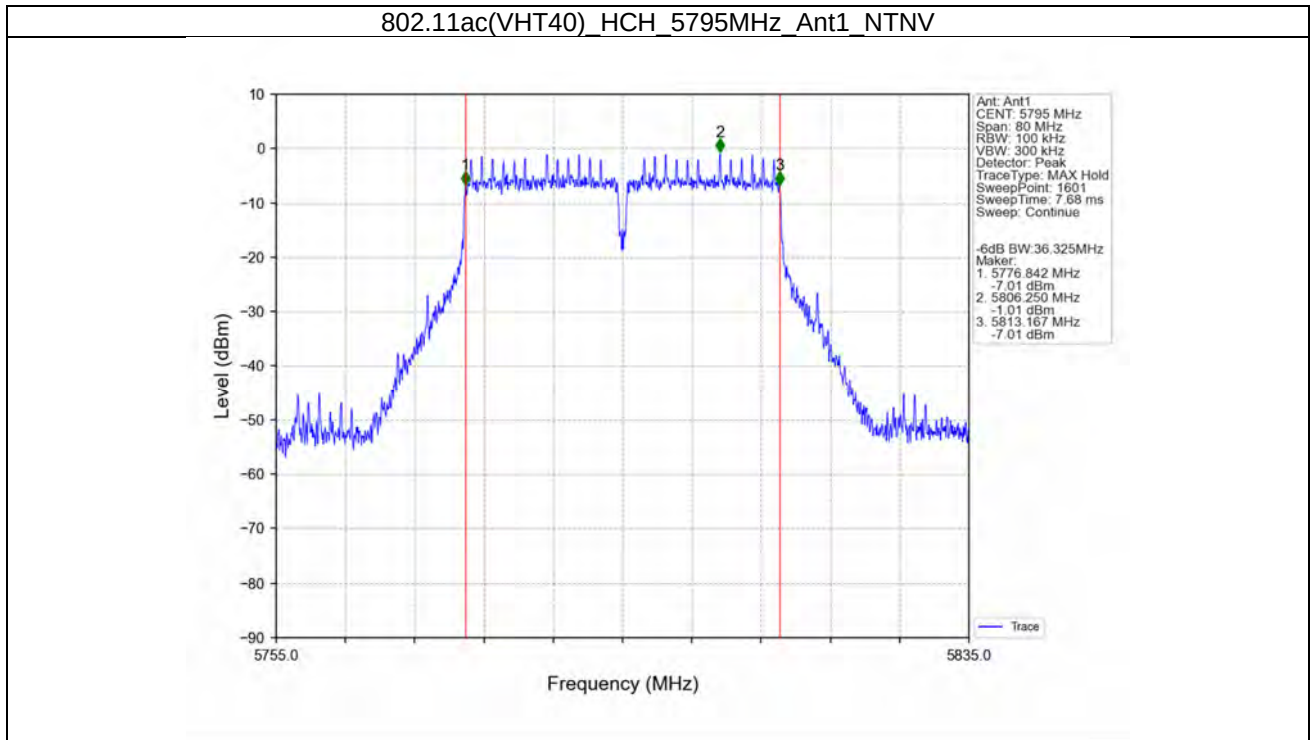


802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



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





### 3. Maximum Conducted Output Power

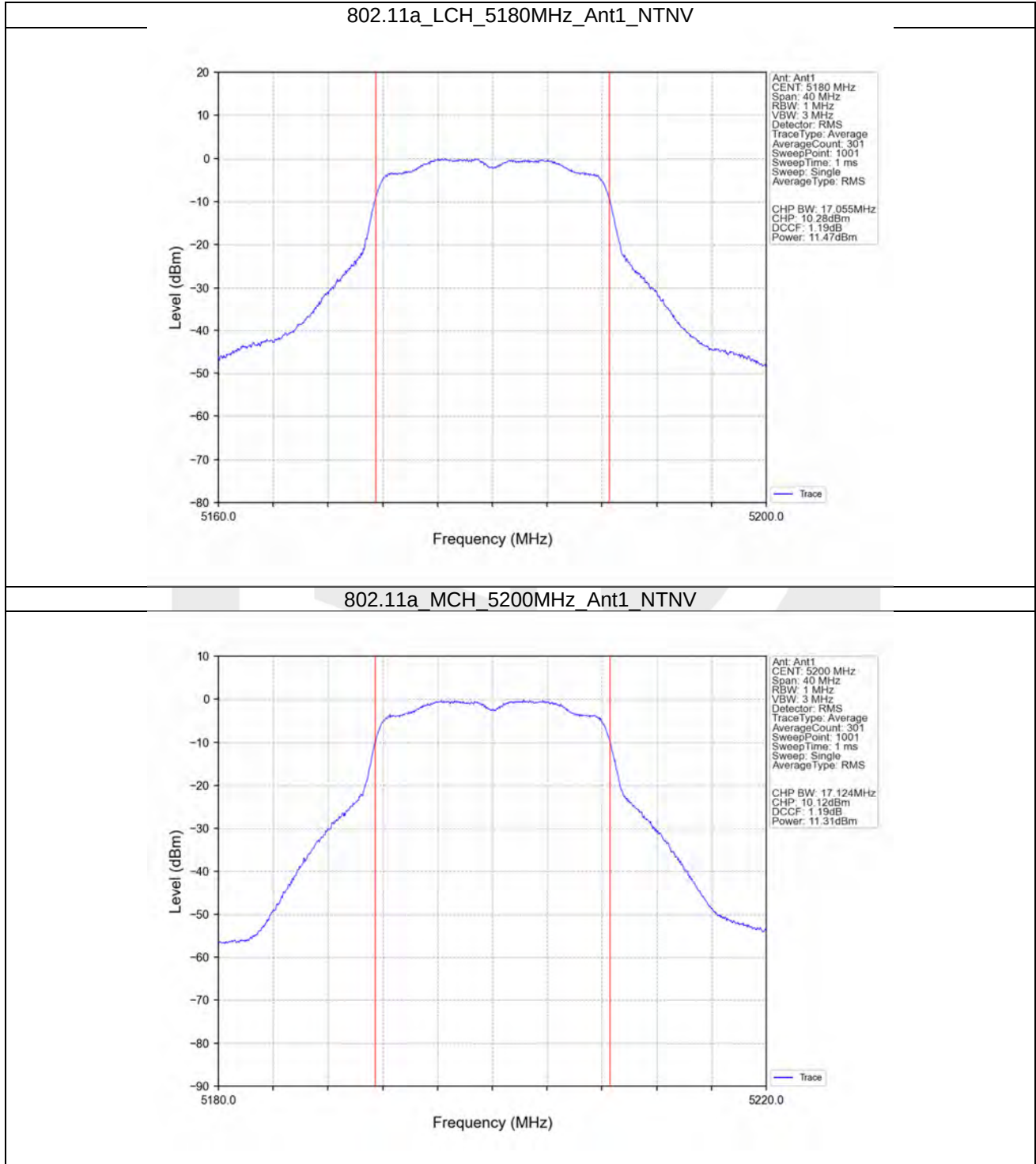
#### 3.1 Test Result

##### 3.1.1 Power

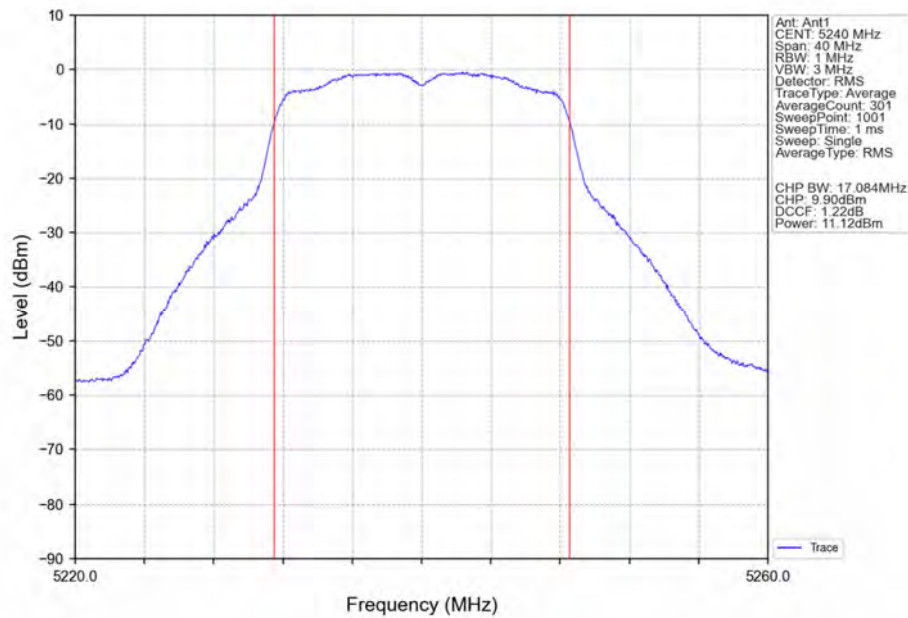
| Mode             | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |              | Verdict |
|------------------|---------|-----------------|----------------------------------------------|--------------|---------|
|                  |         |                 | ANT1                                         | Limit        |         |
| 802.11a          | SISO    | 5180            | 11.47                                        | $\leq 23.98$ | Pass    |
|                  |         | 5200            | 11.31                                        | $\leq 23.98$ | Pass    |
|                  |         | 5240            | 11.12                                        | $\leq 23.98$ | Pass    |
|                  |         | 5745            | 11.54                                        | $\leq 30$    | Pass    |
|                  |         | 5785            | 11.89                                        | $\leq 30$    | Pass    |
|                  |         | 5825            | 11.96                                        | $\leq 30$    | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | 11.47                                        | $\leq 23.98$ | Pass    |
|                  |         | 5200            | 11.35                                        | $\leq 23.98$ | Pass    |
|                  |         | 5240            | 12.16                                        | $\leq 23.98$ | Pass    |
|                  |         | 5745            | 11.73                                        | $\leq 30$    | Pass    |
|                  |         | 5785            | 12.42                                        | $\leq 30$    | Pass    |
|                  |         | 5825            | 12.65                                        | $\leq 30$    | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | 11.71                                        | $\leq 23.98$ | Pass    |
|                  |         | 5230            | 11.62                                        | $\leq 23.98$ | Pass    |
|                  |         | 5755            | 12.19                                        | $\leq 30$    | Pass    |
|                  |         | 5795            | 12.58                                        | $\leq 30$    | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | 12.12                                        | $\leq 23.98$ | Pass    |
|                  |         | 5200            | 11.94                                        | $\leq 23.98$ | Pass    |
|                  |         | 5240            | 11.64                                        | $\leq 23.98$ | Pass    |
|                  |         | 5745            | 12.11                                        | $\leq 30$    | Pass    |
|                  |         | 5785            | 12.39                                        | $\leq 30$    | Pass    |
|                  |         | 5825            | 12.63                                        | $\leq 30$    | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | 12.08                                        | $\leq 23.98$ | Pass    |
|                  |         | 5230            | 11.96                                        | $\leq 23.98$ | Pass    |
|                  |         | 5755            | 12.22                                        | $\leq 30$    | Pass    |
|                  |         | 5795            | 12.54                                        | $\leq 30$    | Pass    |

## 3.2 Test Graph

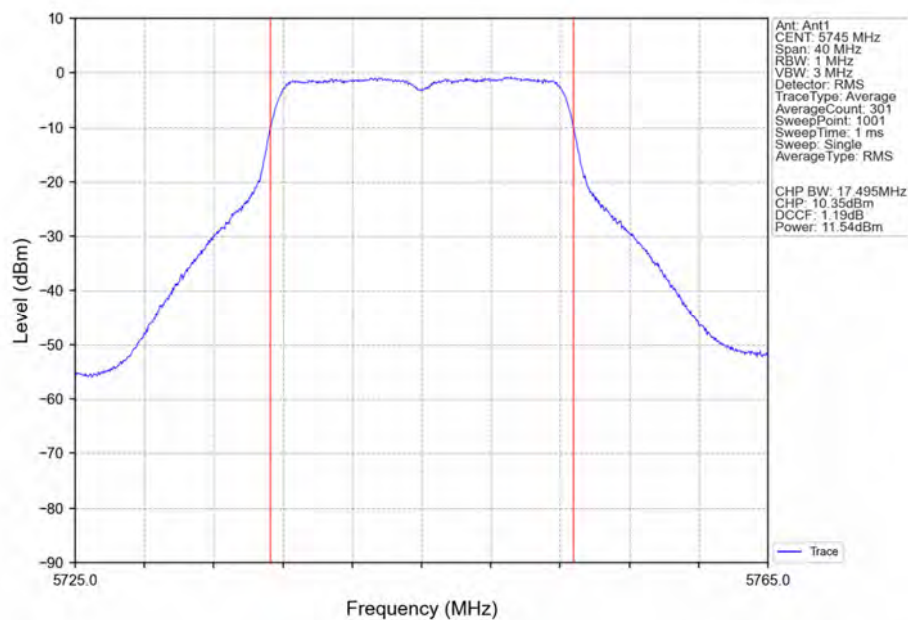
### 3.2.1 Power



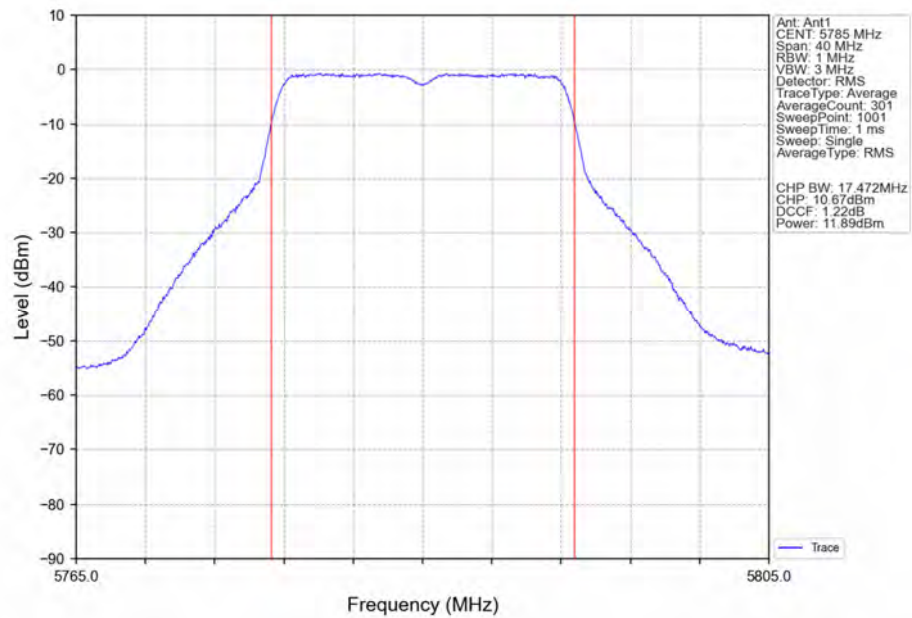
802.11a HCH\_5240MHz\_Ant1\_NTNV



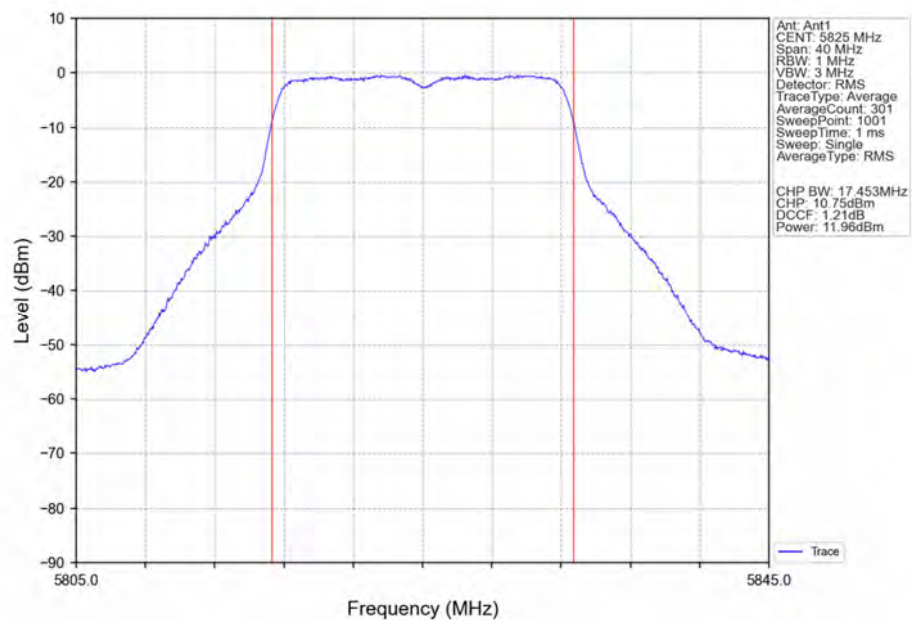
802.11a LCH\_5745MHz\_Ant1\_NTNV



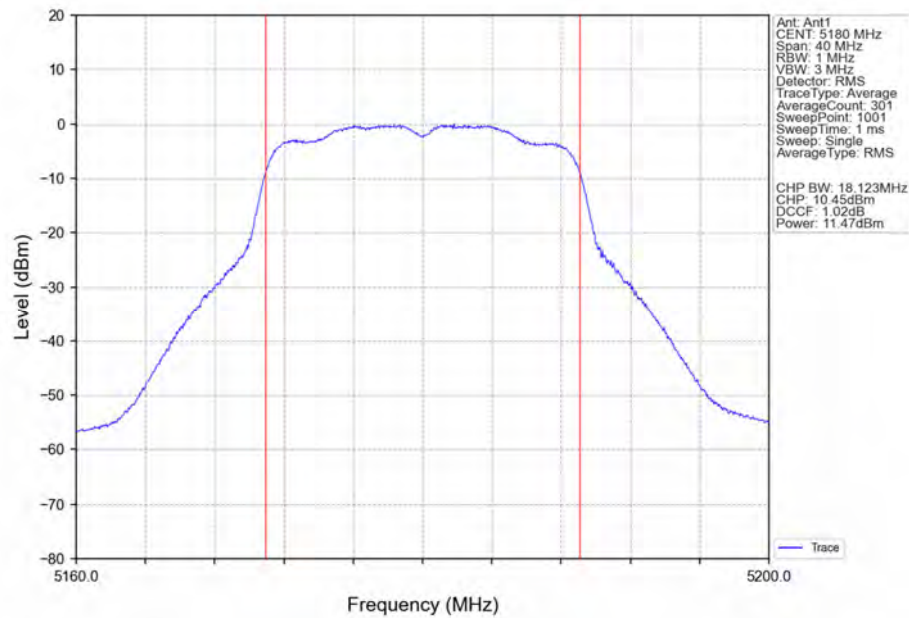
802.11a MCH\_5785MHz\_Ant1\_NTNV



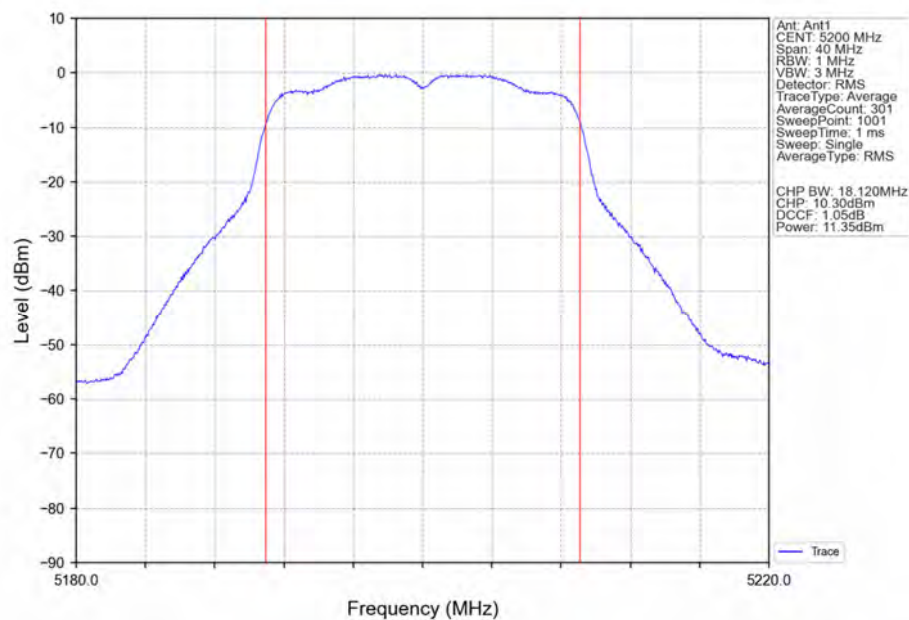
802.11a HCH\_5825MHz\_Ant1\_NTNV



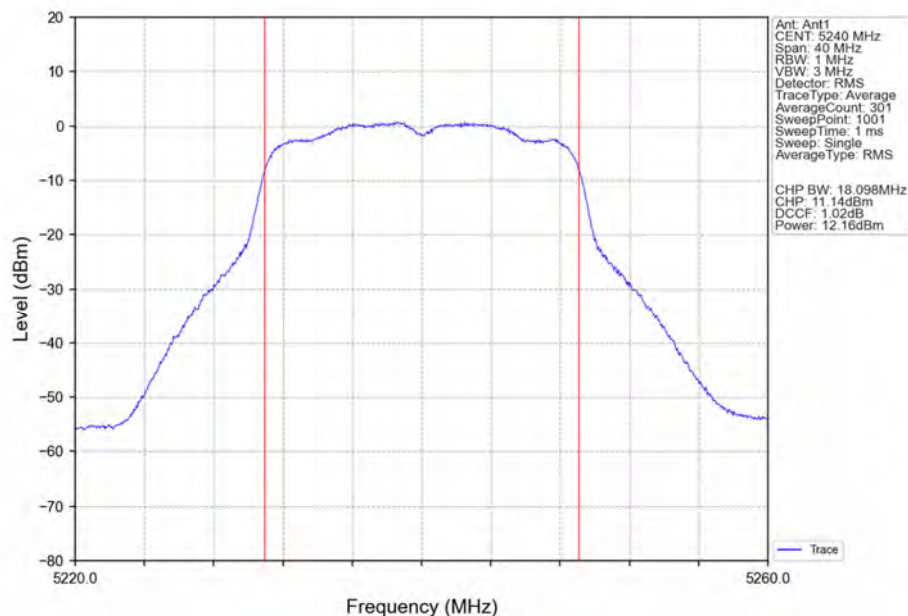
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



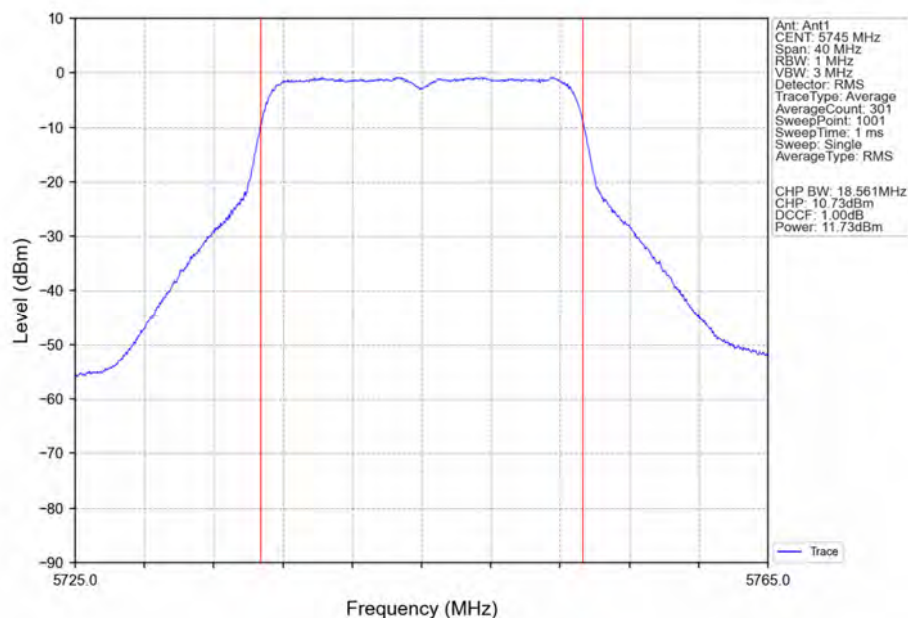
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



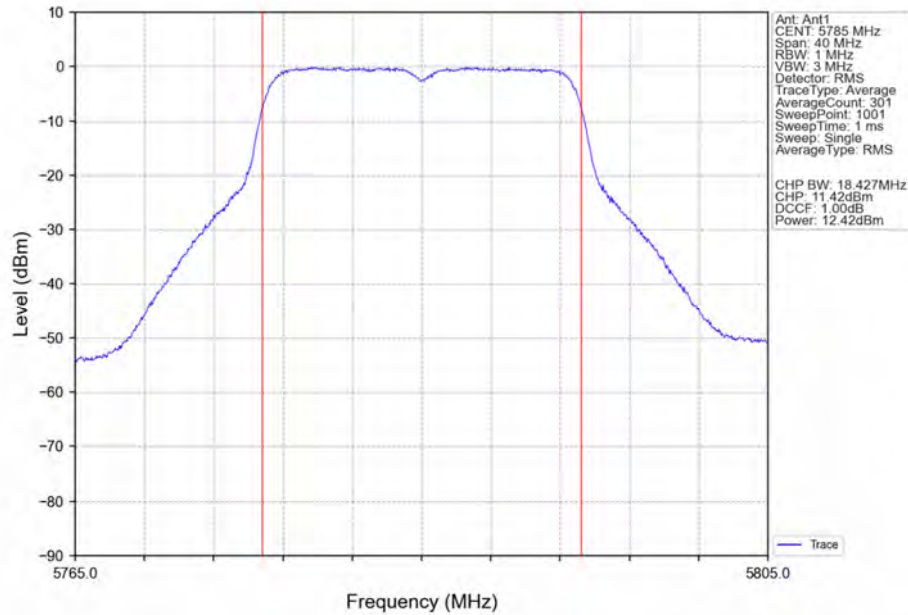
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



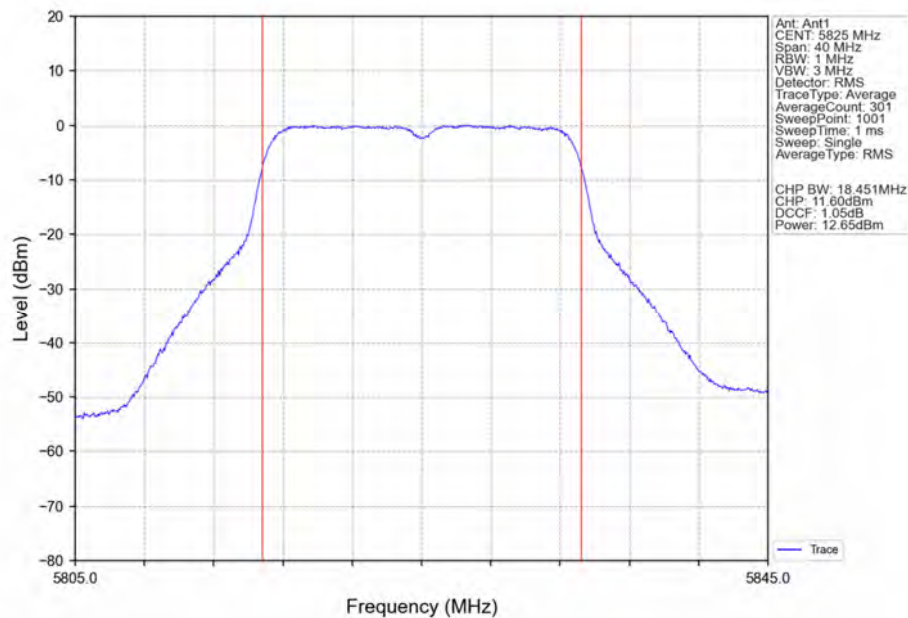
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



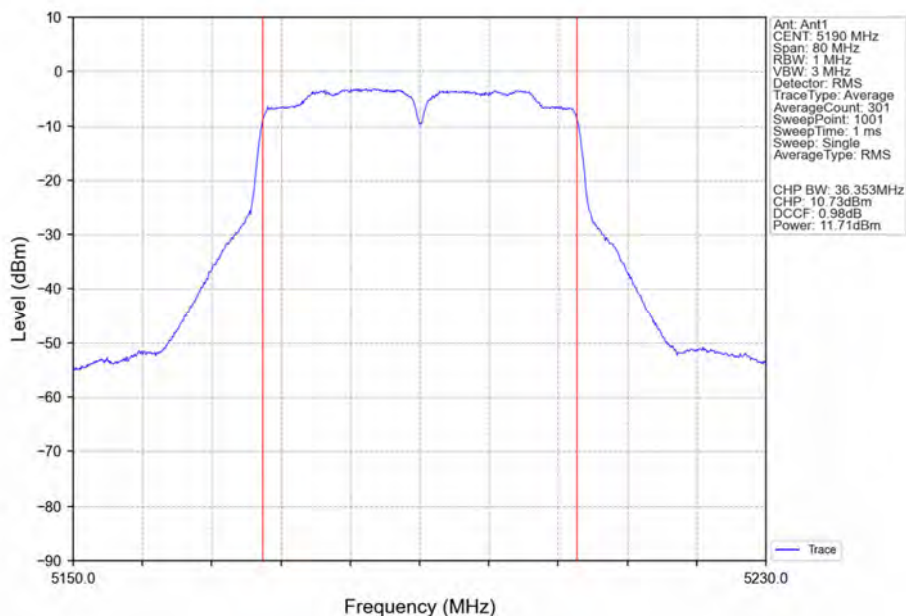
802.11n(HT20)\_MCH 5785MHz\_Ant1\_NTNV



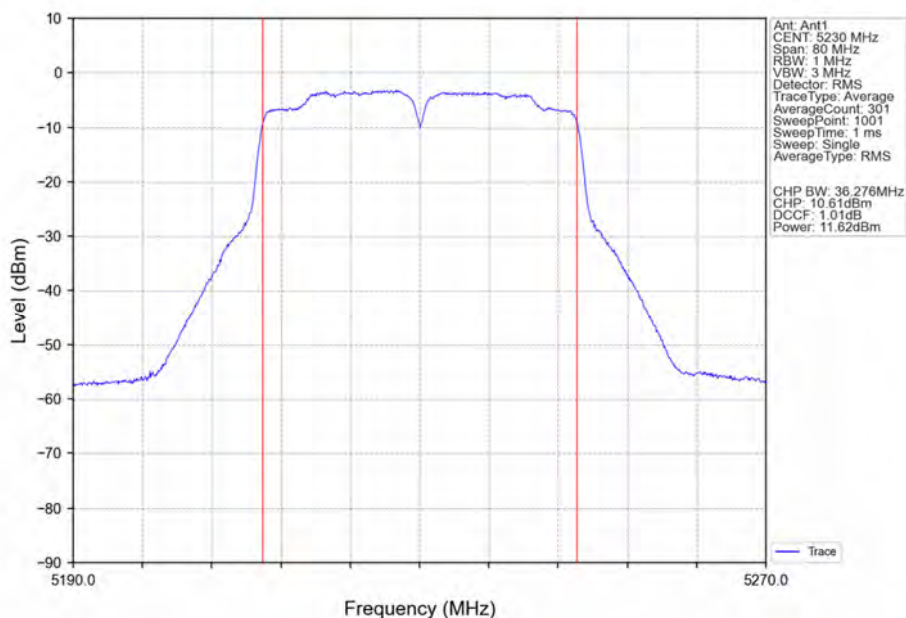
802.11n(HT20)\_HCH 5825MHz\_Ant1\_NTNV



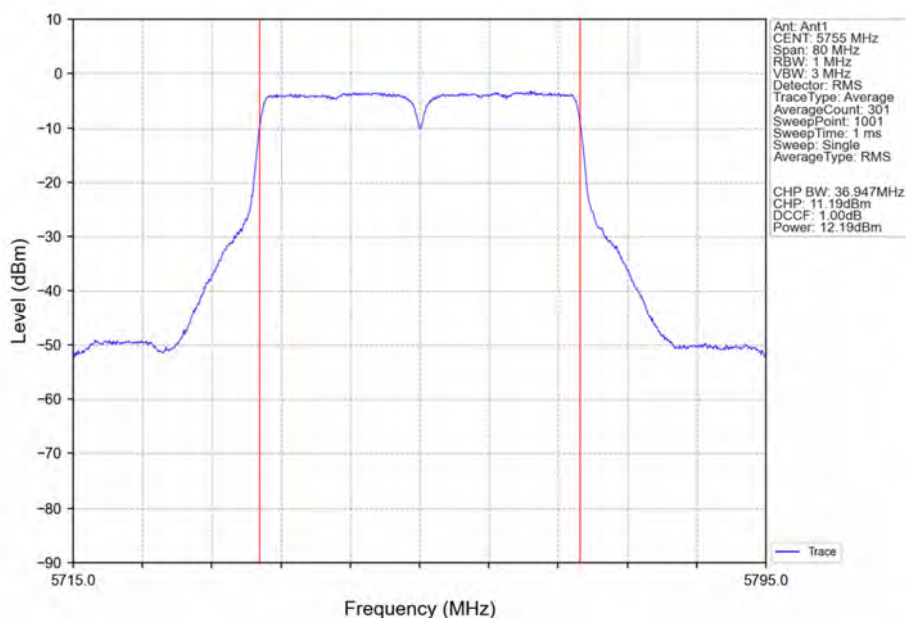
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



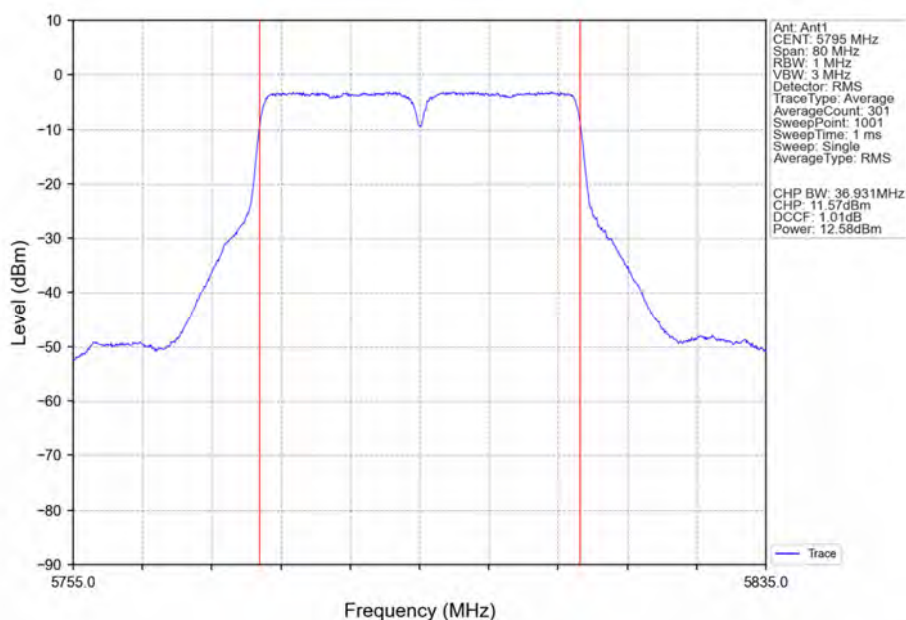
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



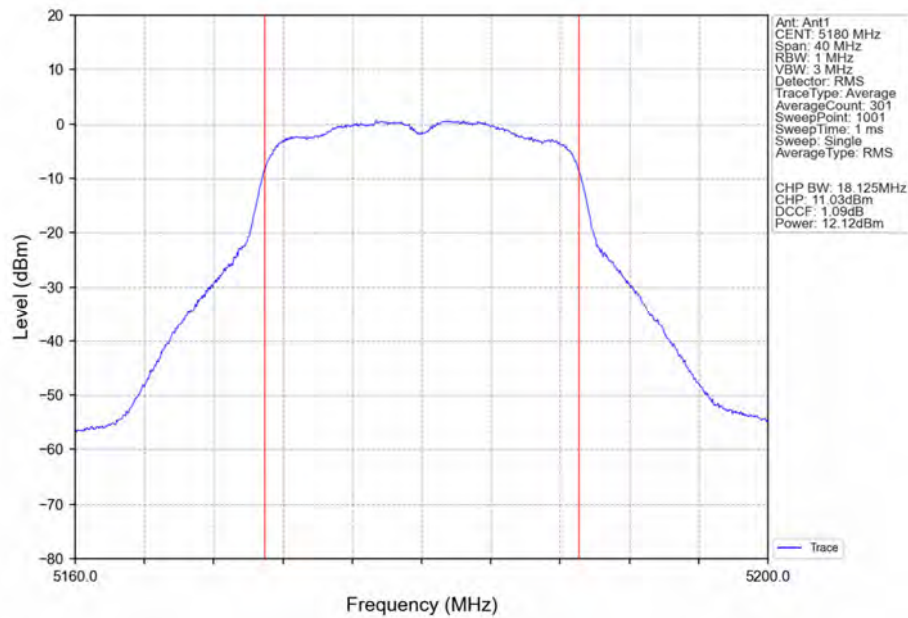
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



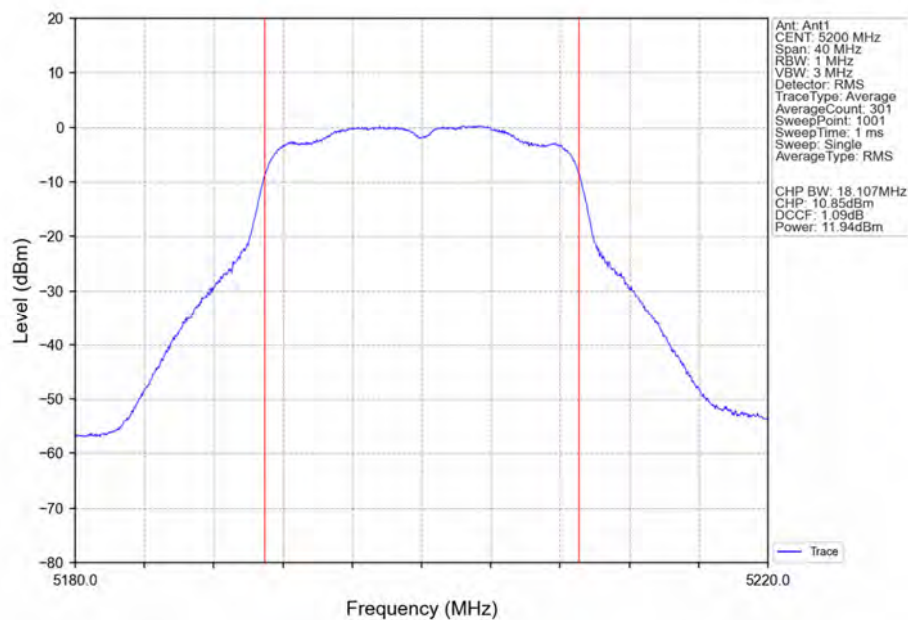
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



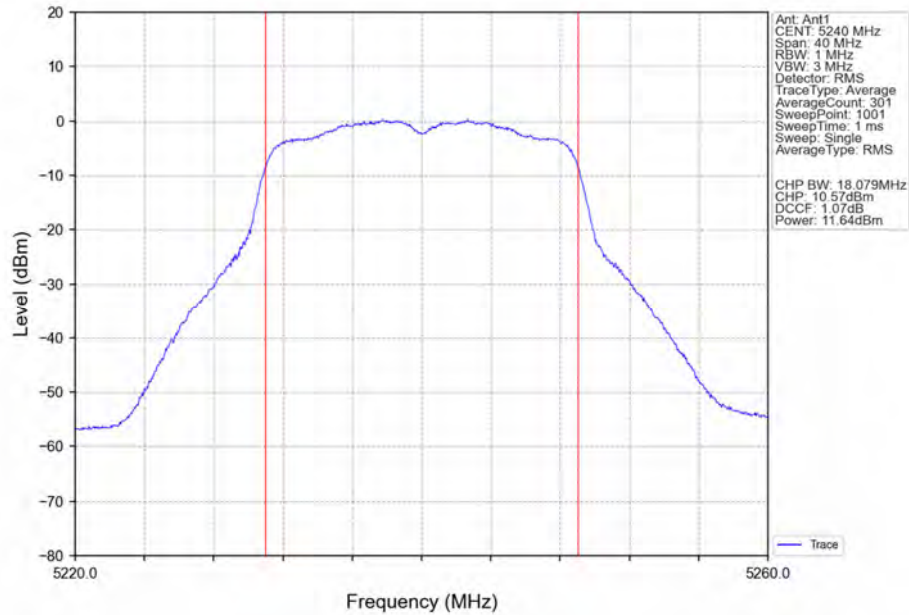
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



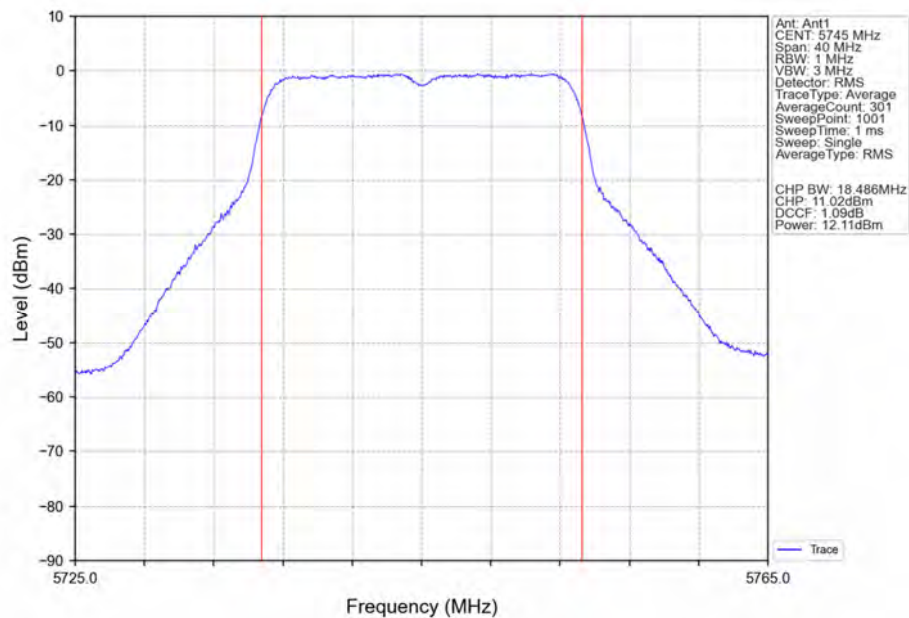
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



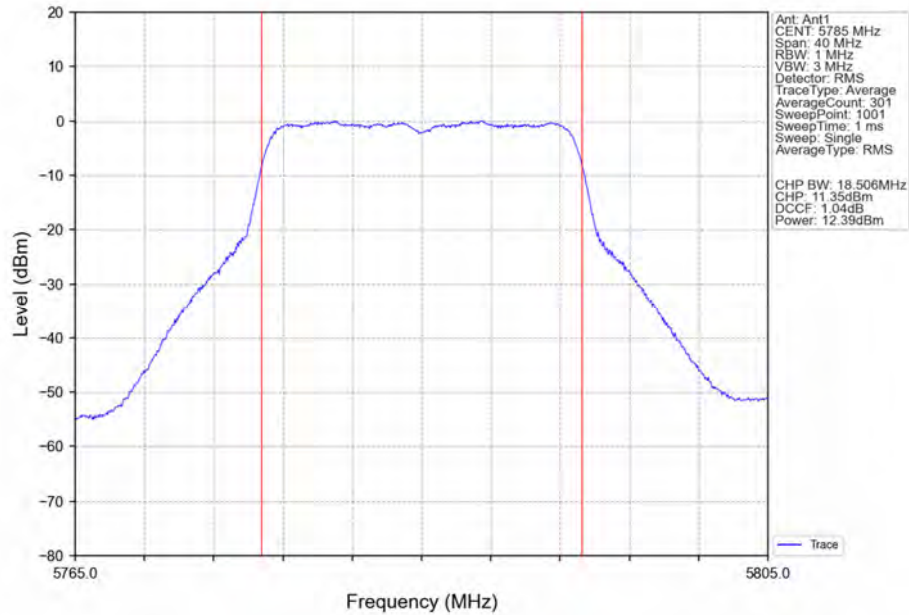
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



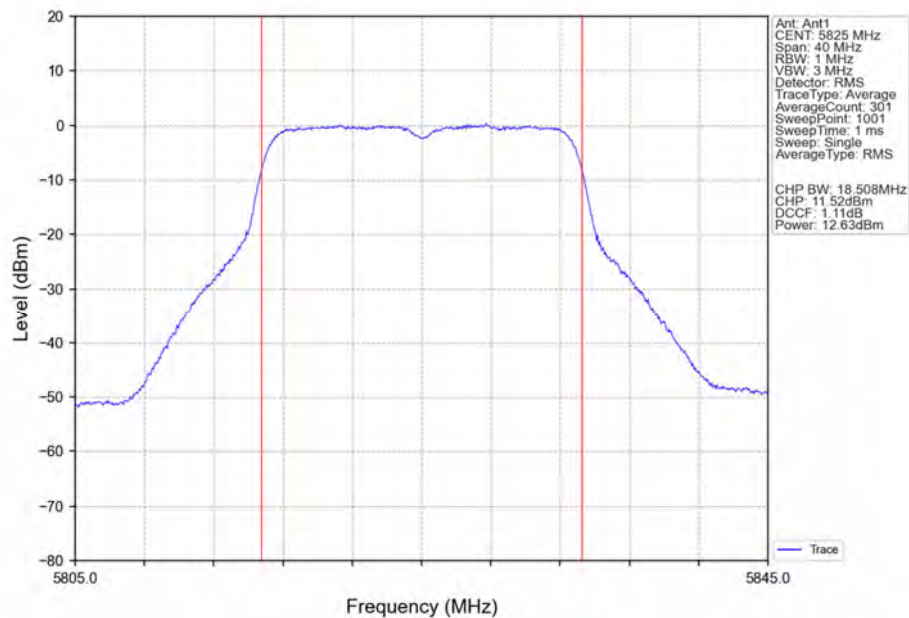
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



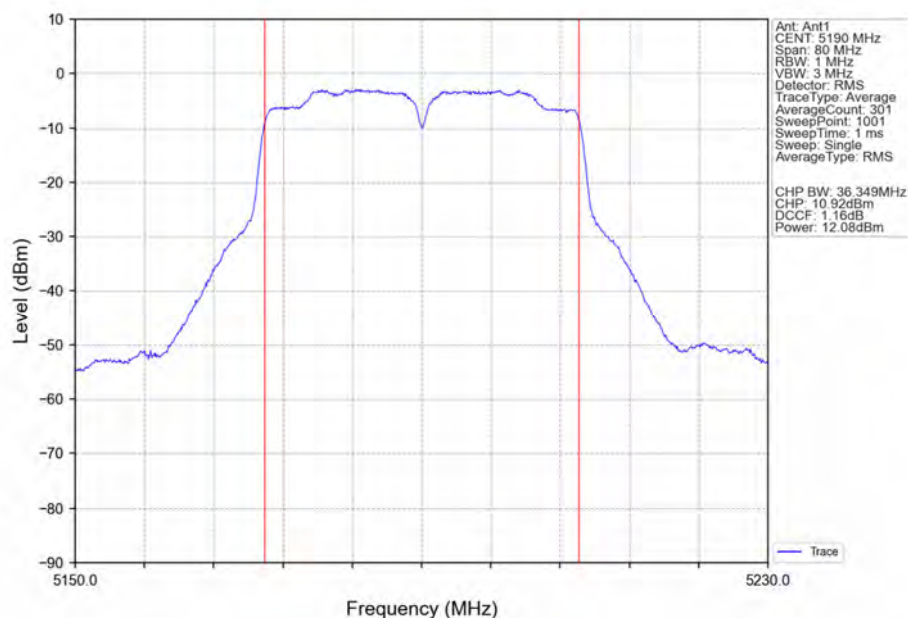
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



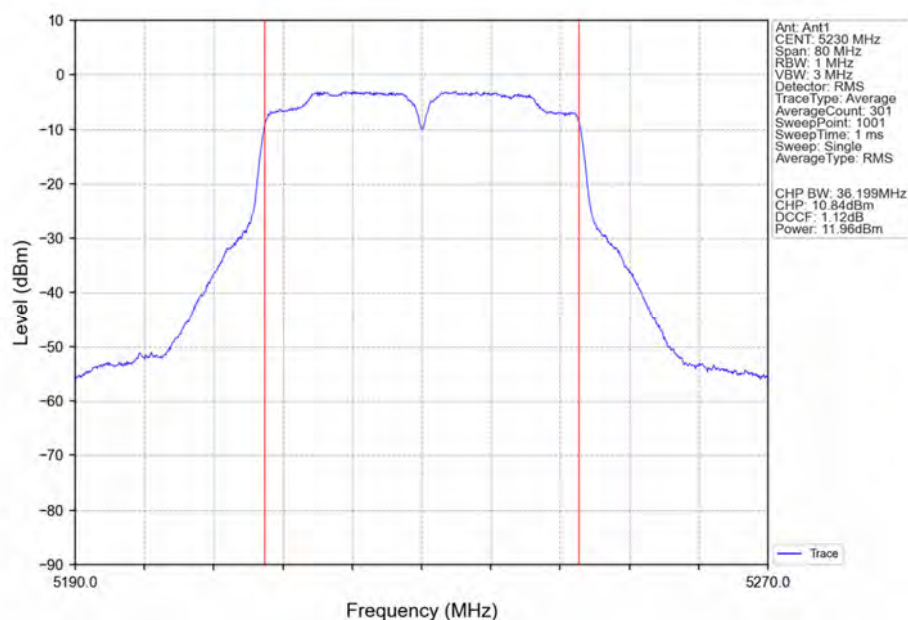
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



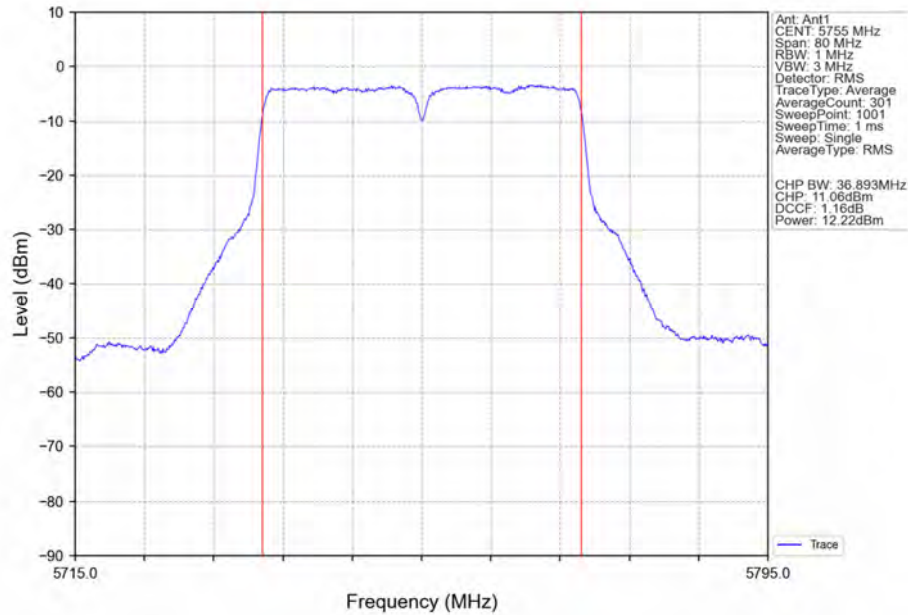
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



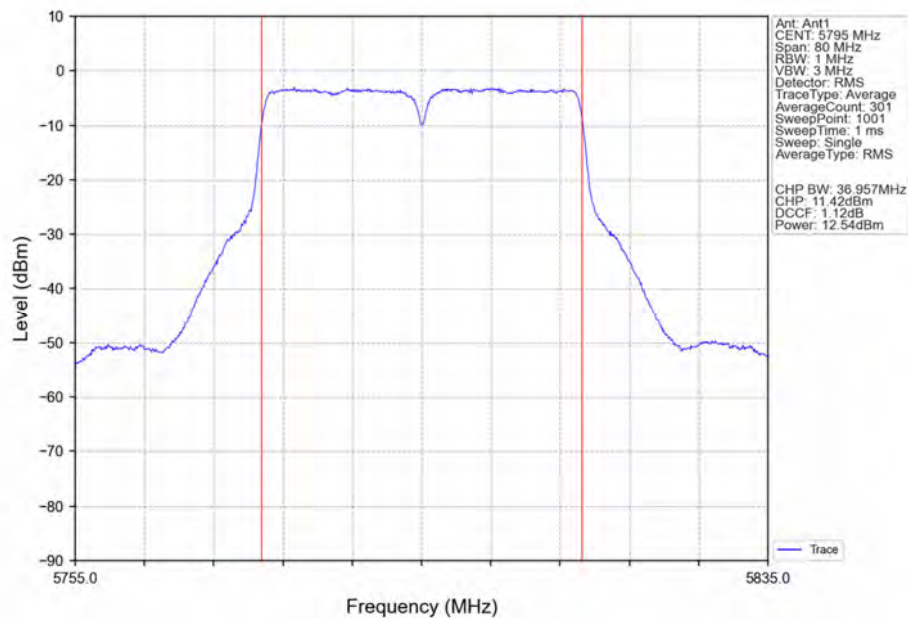
802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



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



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



#### 4. Maximum Power Spectral Density

##### 4.1 Test Result

###### 4.1.1 PSD

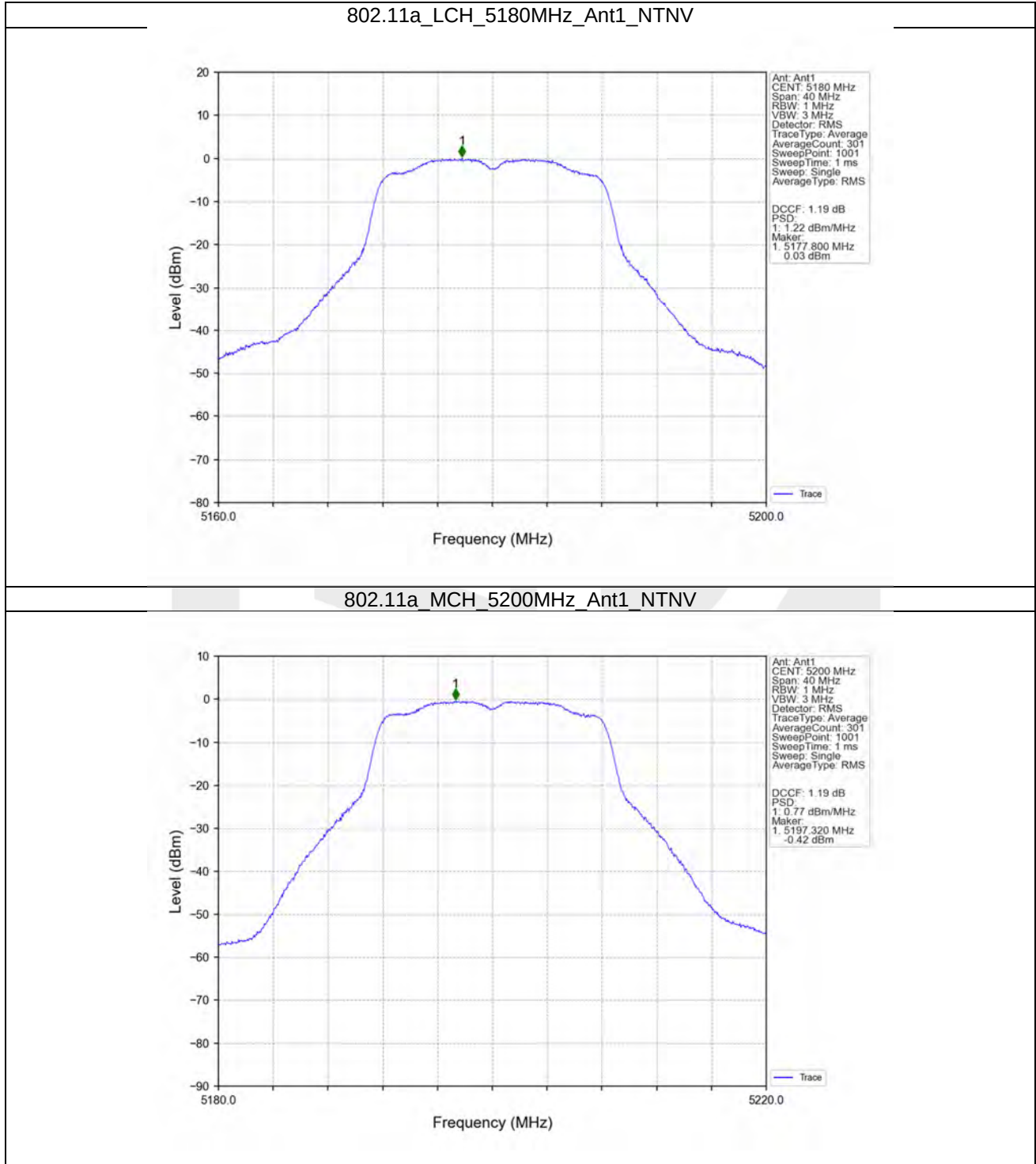
| Mode             | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) |            | Verdict |
|------------------|---------|-----------------|-----------------------|------------|---------|
|                  |         |                 | ANT1                  | Limit      |         |
| 802.11a          | SISO    | 5180            | 1.22                  | $\leq -11$ | Pass    |
|                  |         | 5200            | 0.77                  | $\leq -11$ | Pass    |
|                  |         | 5240            | 0.60                  | $\leq -11$ | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | 1.16                  | $\leq -11$ | Pass    |
|                  |         | 5200            | 0.89                  | $\leq -11$ | Pass    |
|                  |         | 5240            | 1.75                  | $\leq -11$ | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | -2.06                 | $\leq -11$ | Pass    |
|                  |         | 5230            | -2.29                 | $\leq -11$ | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | 1.60                  | $\leq -11$ | Pass    |
|                  |         | 5200            | 1.45                  | $\leq -11$ | Pass    |
|                  |         | 5240            | 1.11                  | $\leq -11$ | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | -1.62                 | $\leq -11$ | Pass    |
|                  |         | 5230            | -1.98                 | $\leq -11$ | Pass    |

###### 4.1.2 PSD-Band3

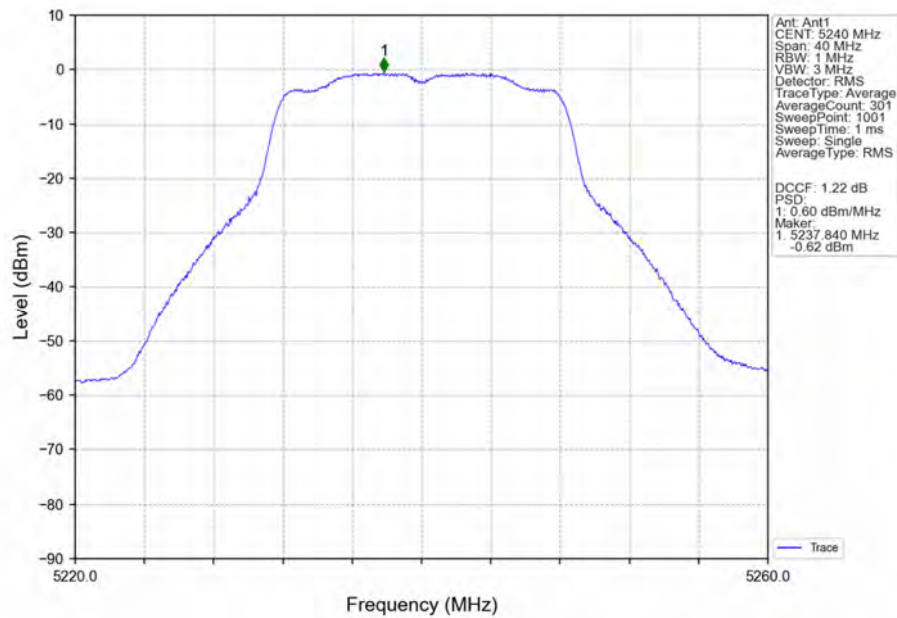
| Mode             | TX Type | Frequency (MHz) | Maximum PSD (dBm/500kHz) |            | Verdict |
|------------------|---------|-----------------|--------------------------|------------|---------|
|                  |         |                 | ANT1                     | Limit      |         |
| 802.11a          | SISO    | 5745            | -2.07                    | $\leq -30$ | Pass    |
|                  |         | 5785            | -1.83                    | $\leq -30$ | Pass    |
|                  |         | 5825            | -1.78                    | $\leq -30$ | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | -2.04                    | $\leq -30$ | Pass    |
|                  |         | 5785            | -1.28                    | $\leq -30$ | Pass    |
|                  |         | 5825            | -1.03                    | $\leq -30$ | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | -4.98                    | $\leq -30$ | Pass    |
|                  |         | 5795            | -4.24                    | $\leq -30$ | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | -1.49                    | $\leq -30$ | Pass    |
|                  |         | 5785            | -1.36                    | $\leq -30$ | Pass    |
|                  |         | 5825            | -1.04                    | $\leq -30$ | Pass    |
| 802.11ac (VHT40) | SISO    | 5755            | -4.59                    | $\leq -30$ | Pass    |
|                  |         | 5795            | -4.36                    | $\leq -30$ | Pass    |

## 4.2 Test Graph

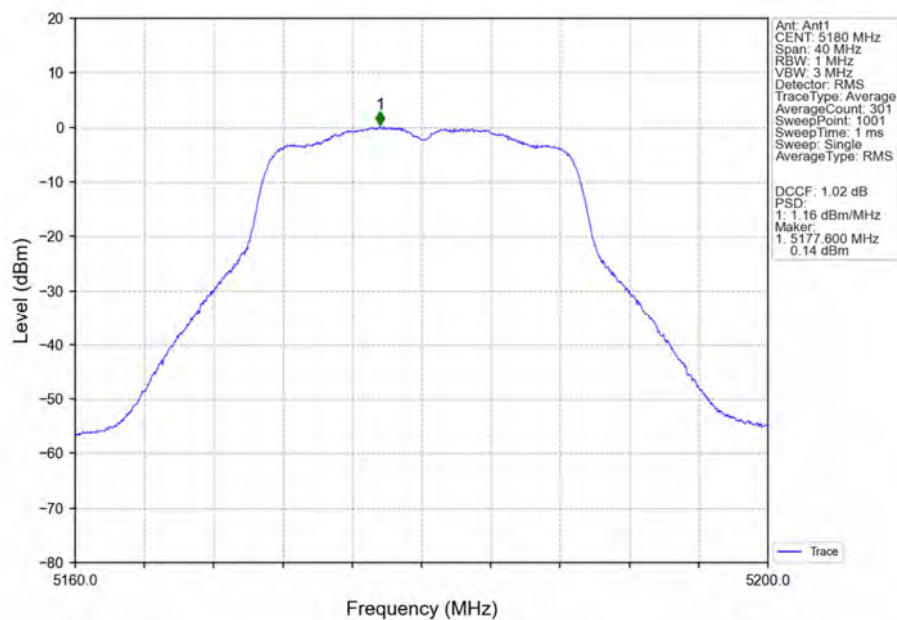
### 4.2.1 PSD



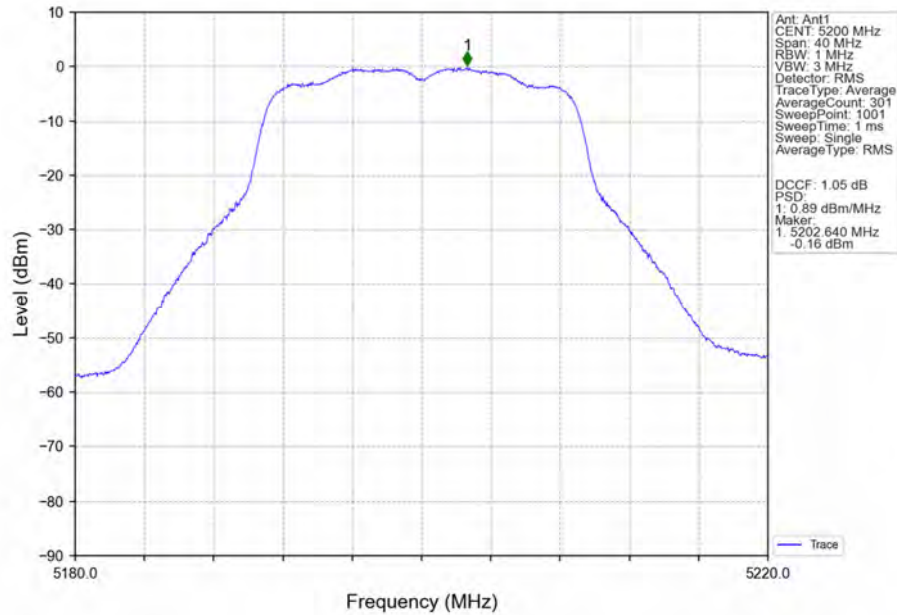
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



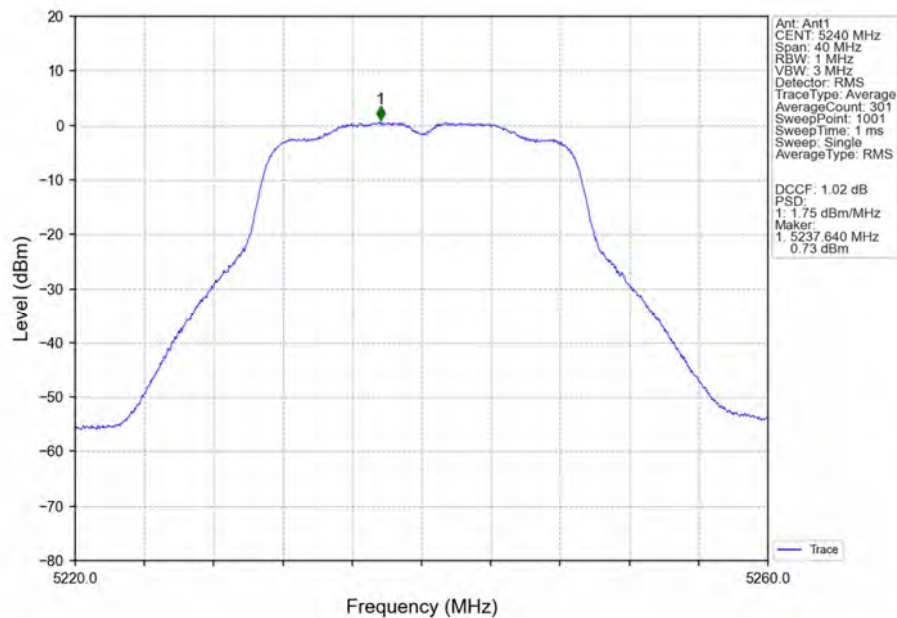
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



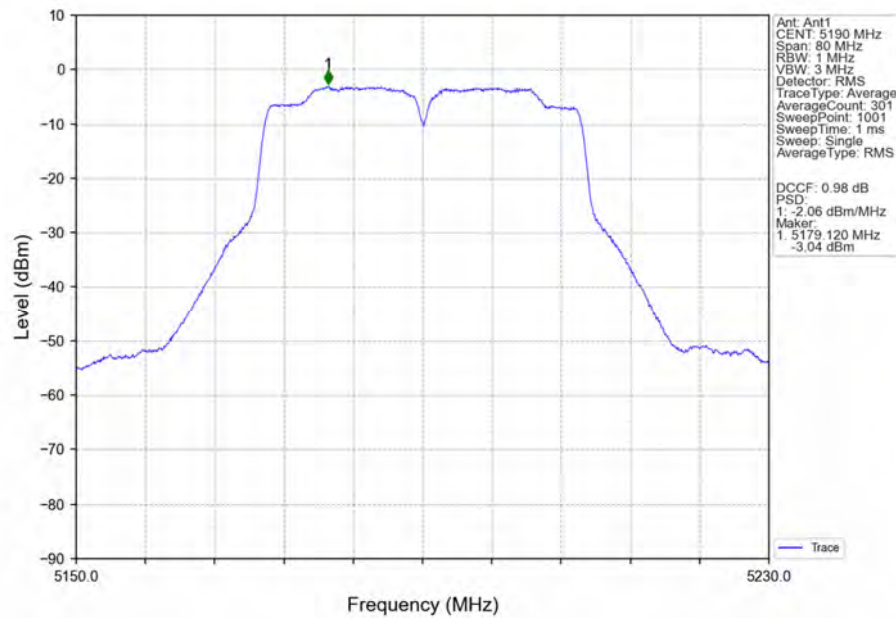
802.11n(HT20)\_MCH 5200MHz\_Ant1\_NTNV



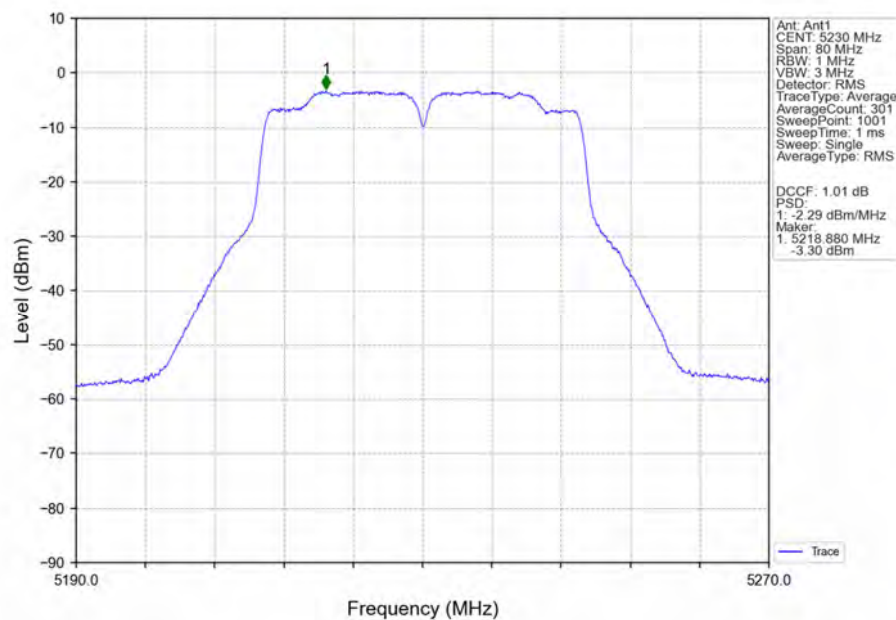
802.11n(HT20)\_HCH 5240MHz\_Ant1\_NTNV



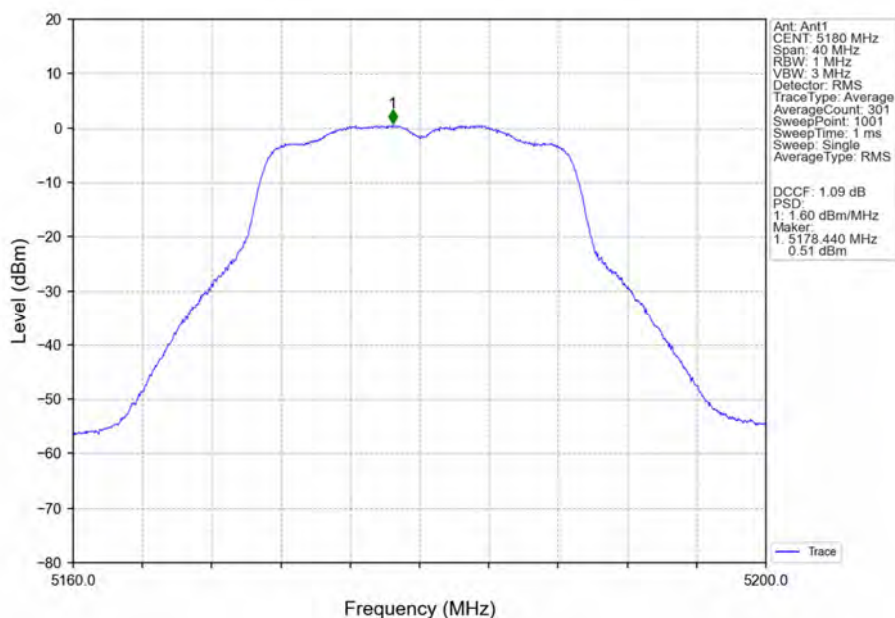
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



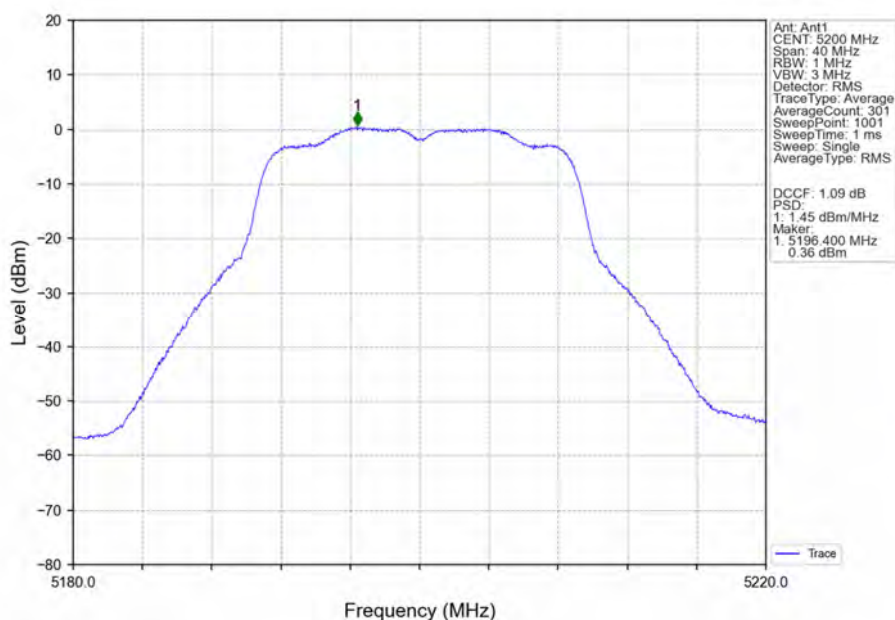
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



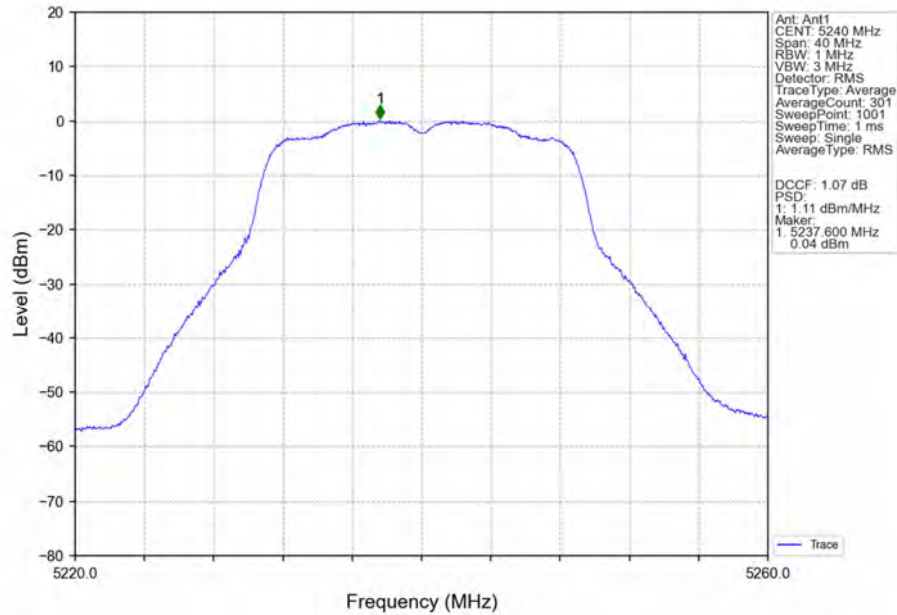
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



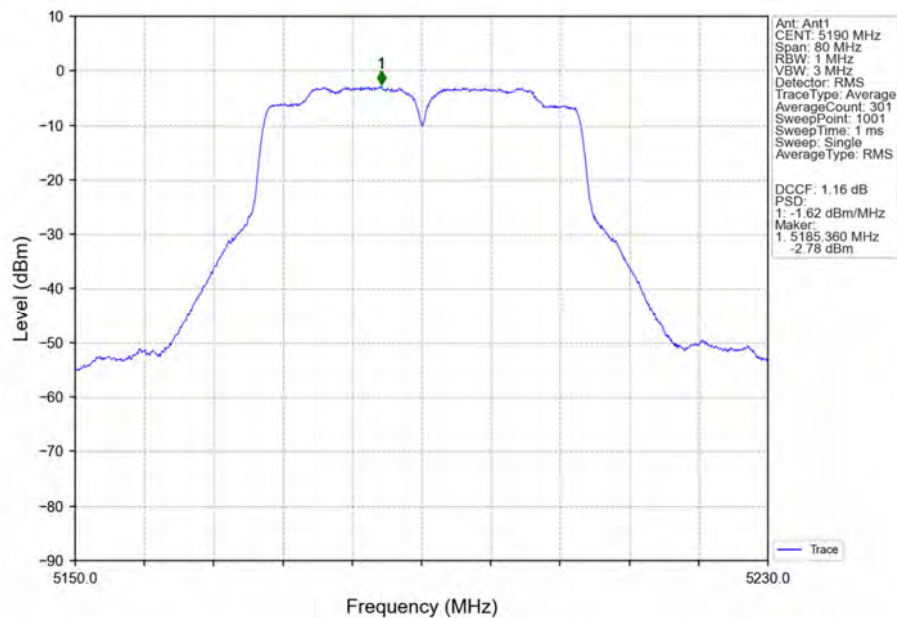
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV

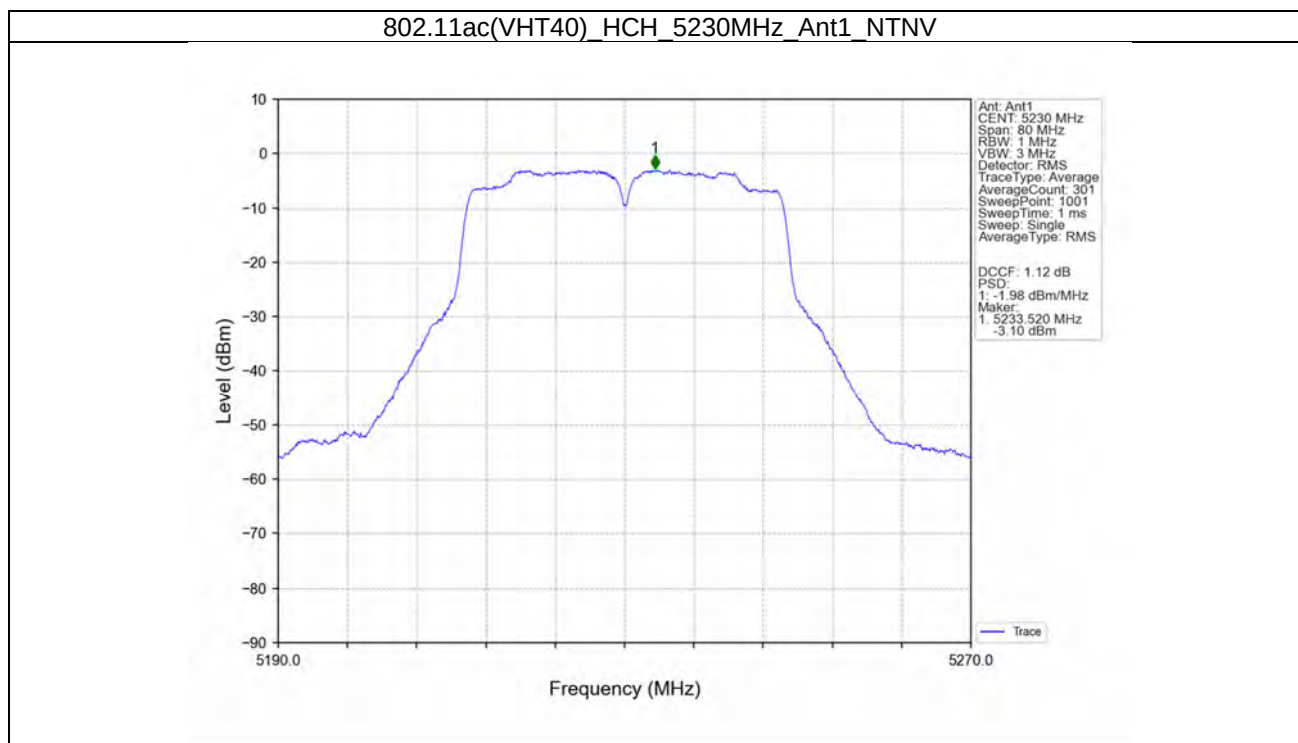


802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV

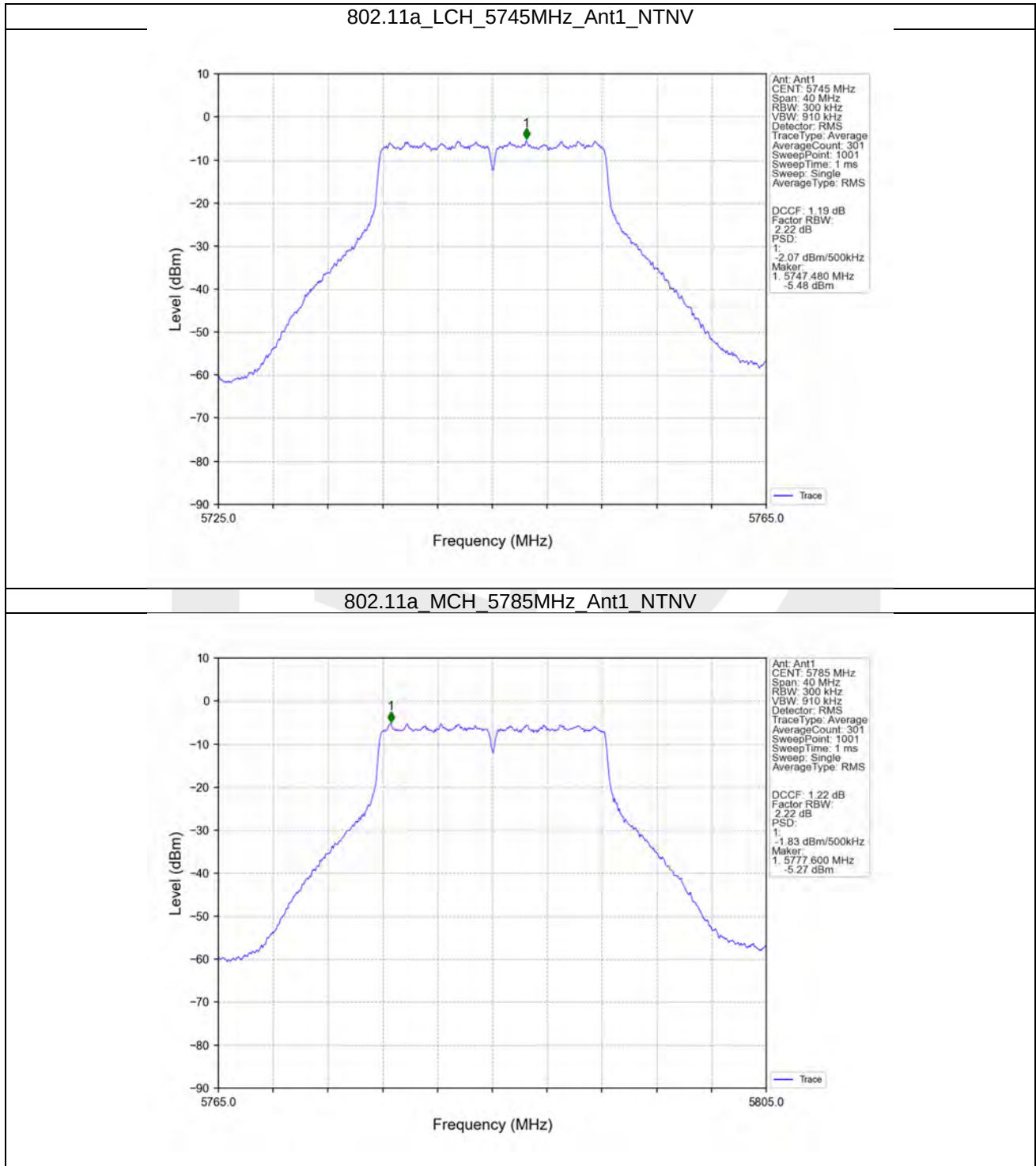


802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV

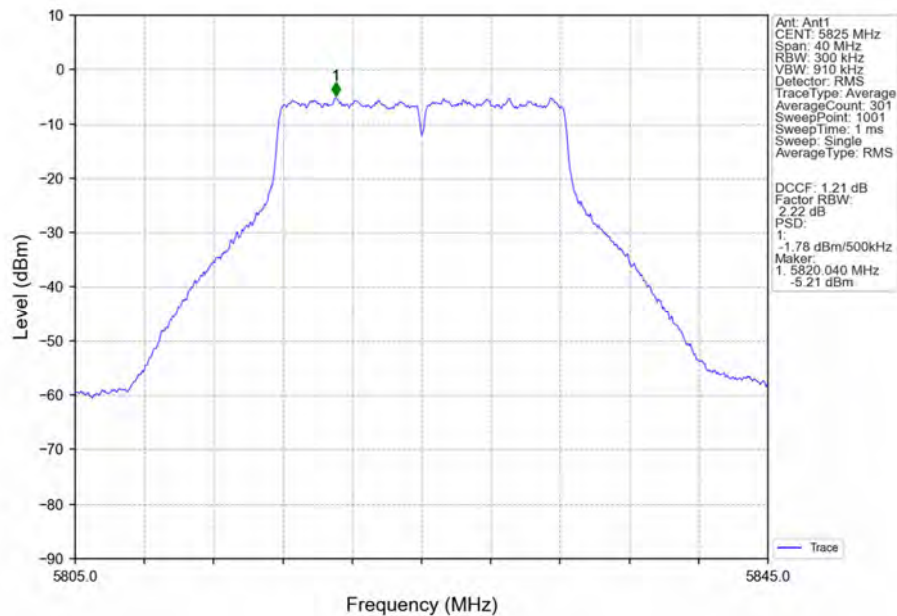




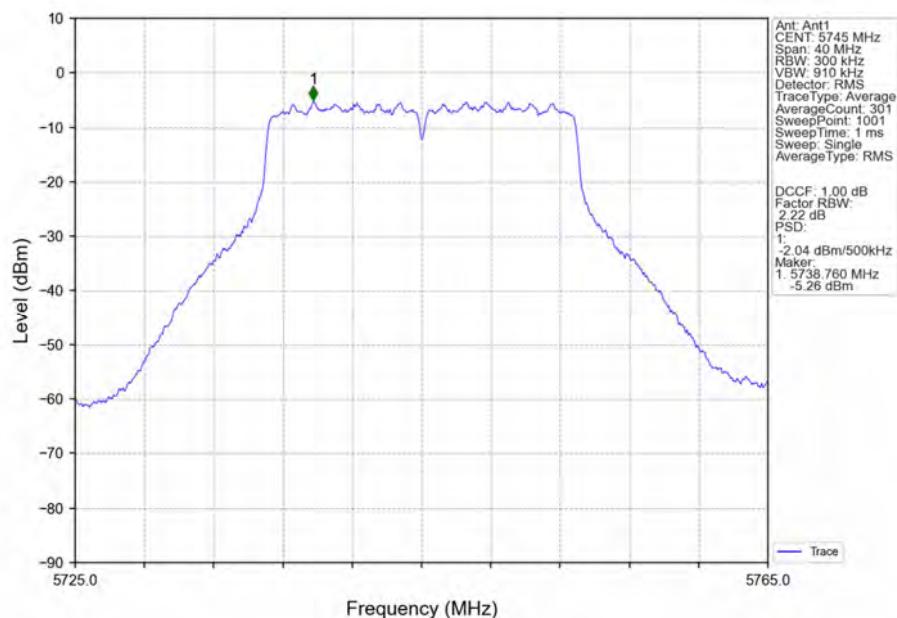
#### 4.2.2 PSD-Band3



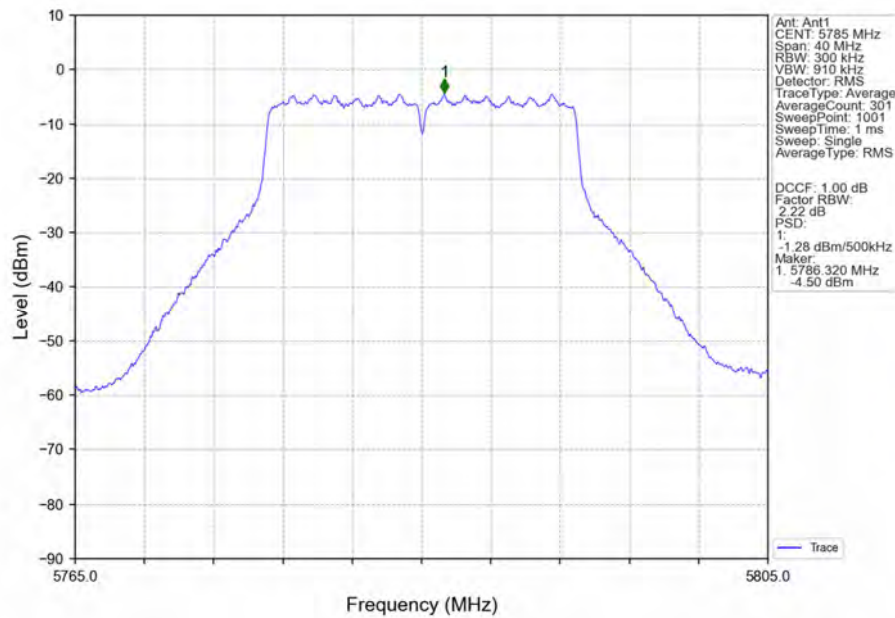
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



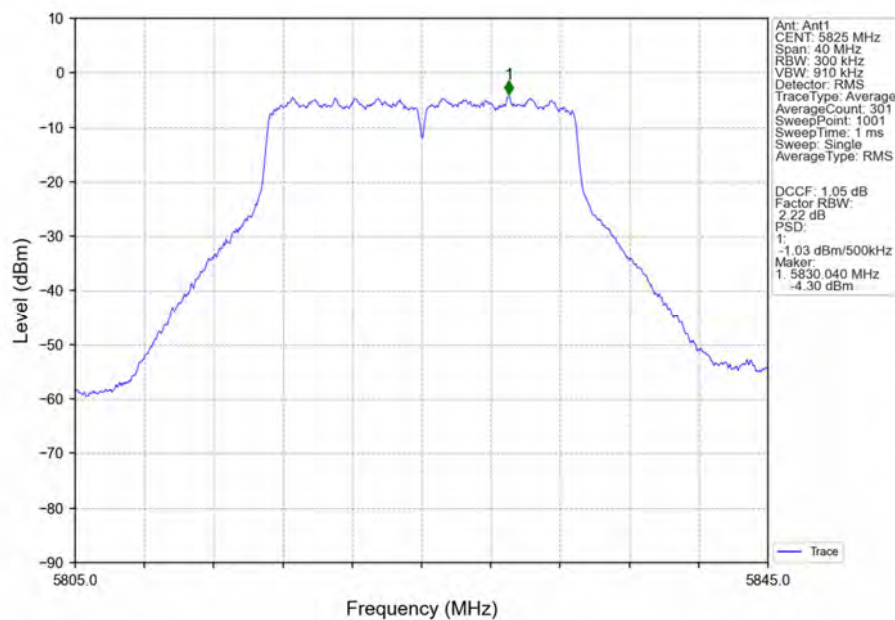
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



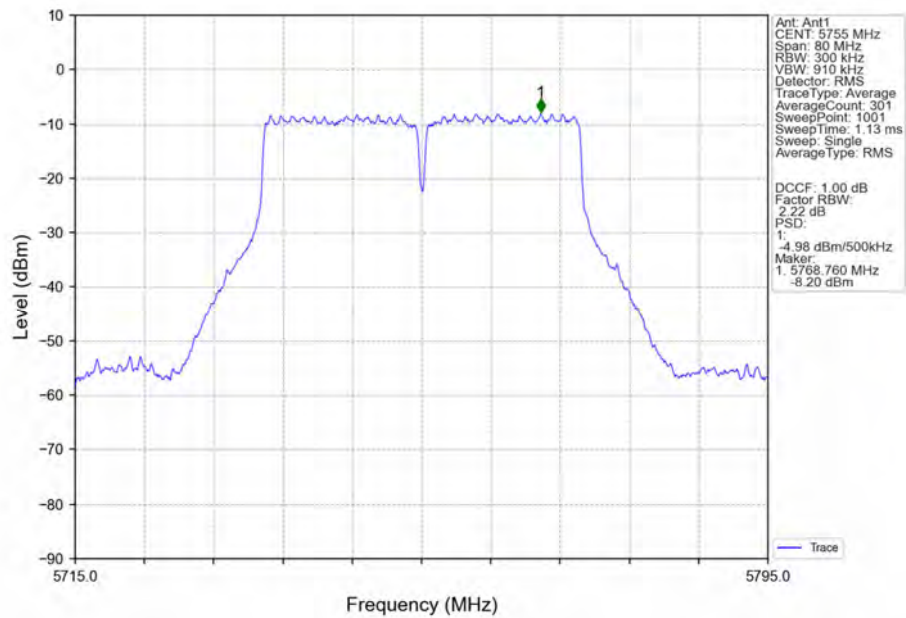
802.11n(HT20)\_MCH 5785MHz\_Ant1\_NTNV



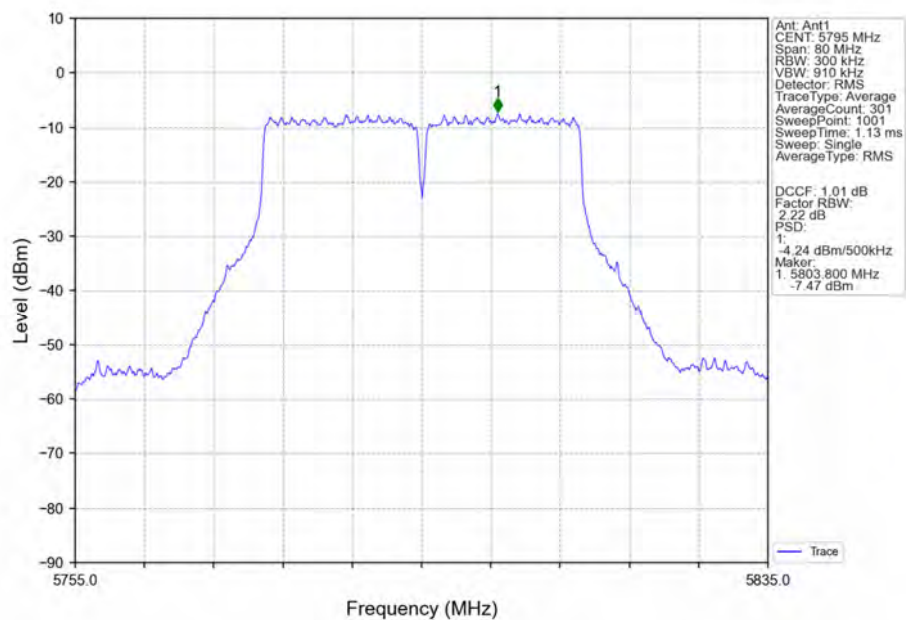
802.11n(HT20)\_HCH 5825MHz\_Ant1\_NTNV



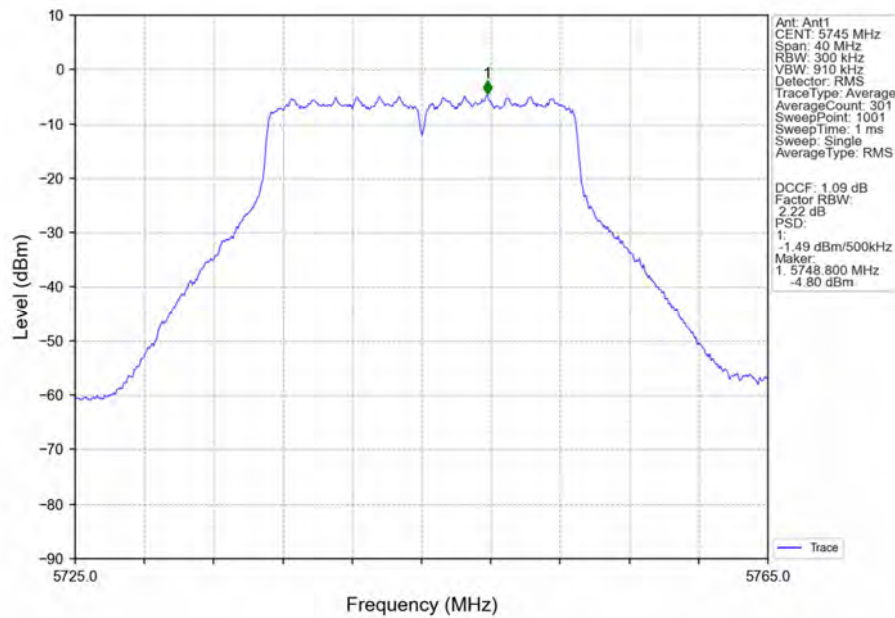
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



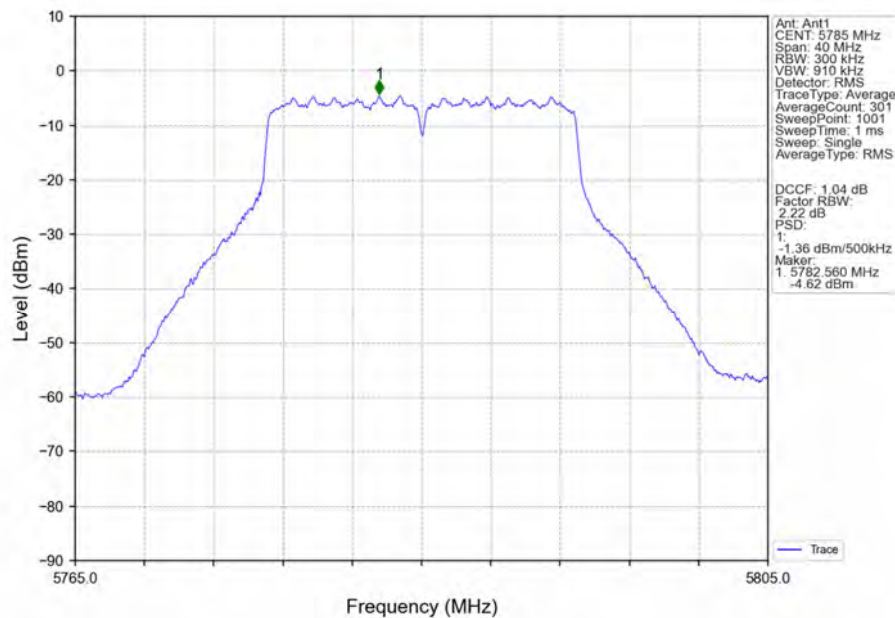
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



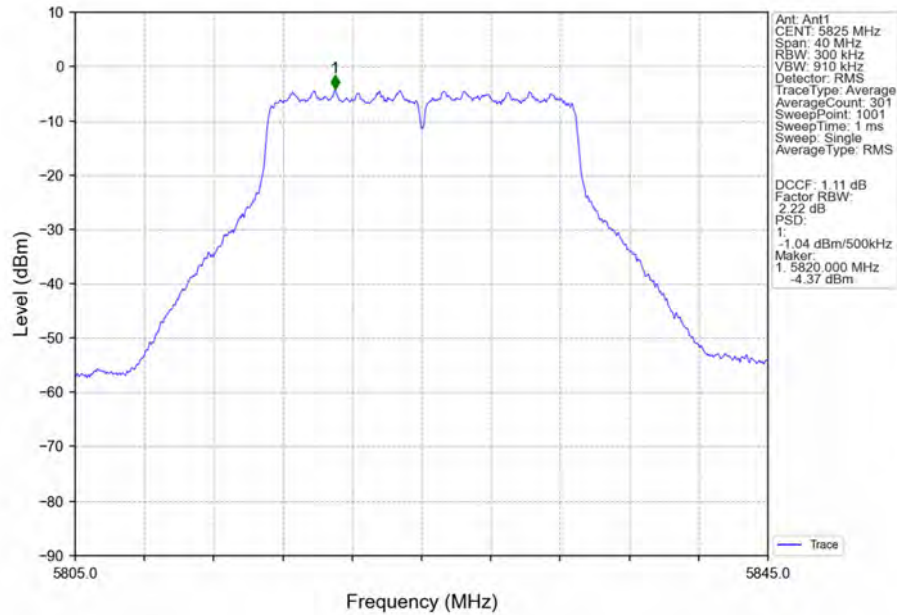
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



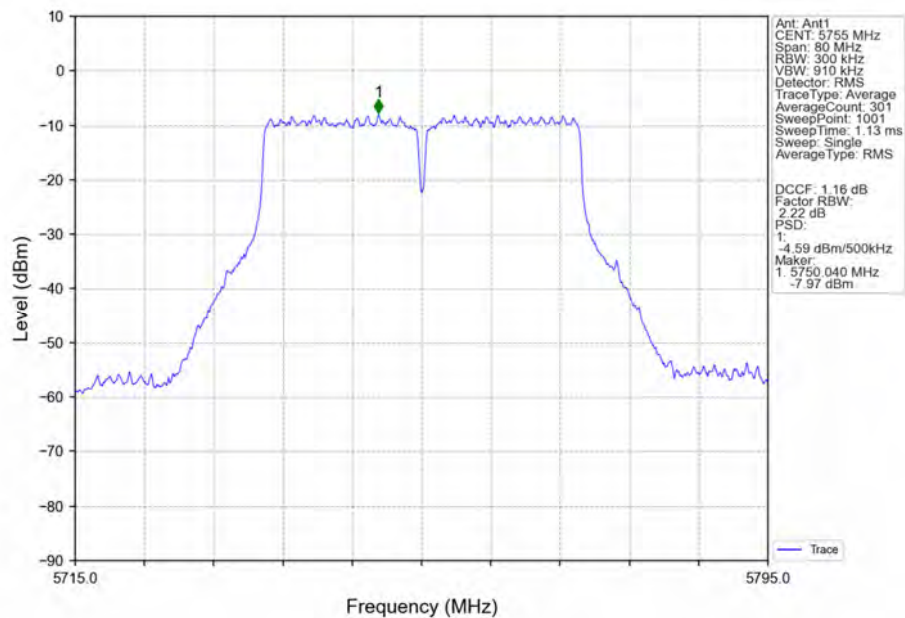
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV

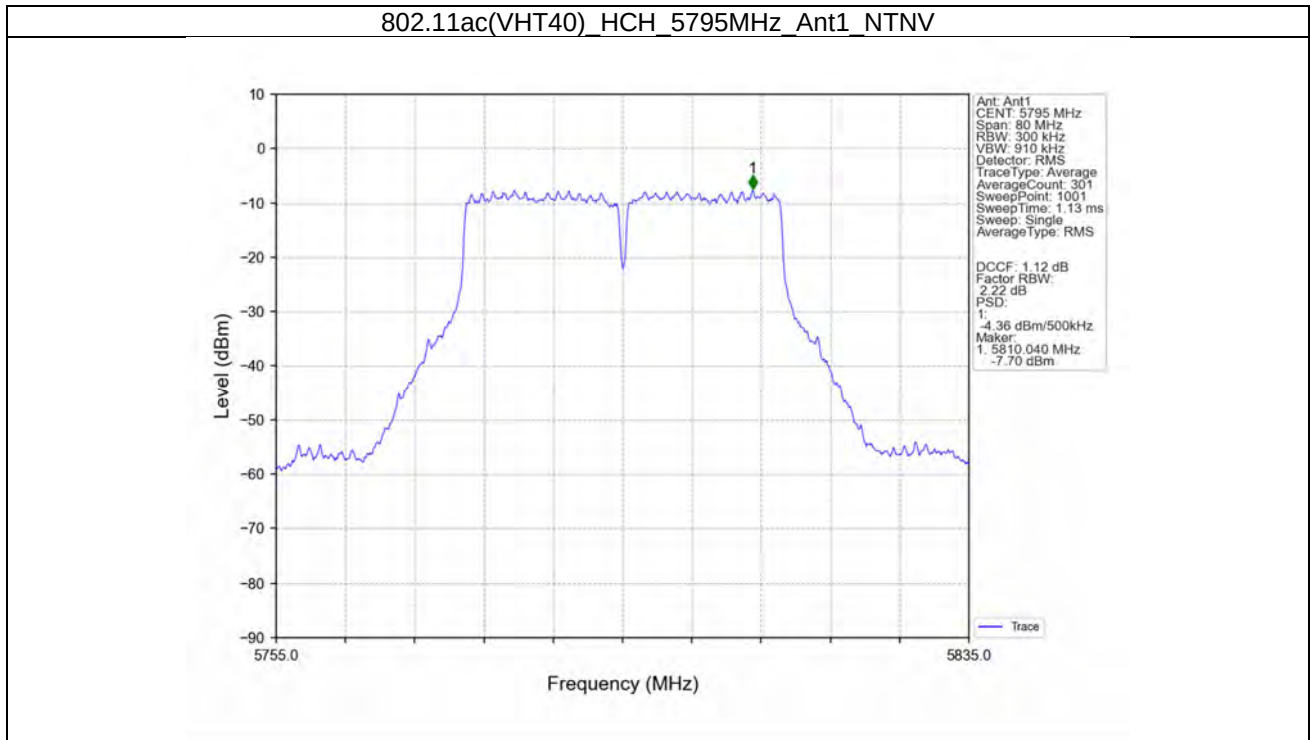


802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



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





## 5. Unwanted Emissions In Restricted Frequency Bands

### 5.1 Test Result

#### 5.1.1 CSE

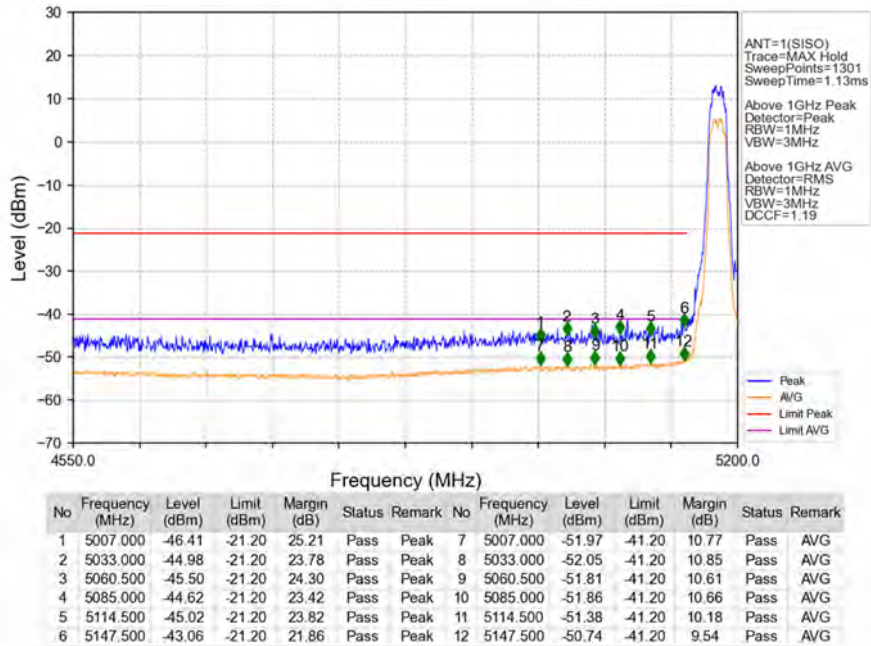
| Mode             | TX Type | Frequency (MHz) | ANT | Level of Unwanted Emissions (dBm) |       | Verdict |
|------------------|---------|-----------------|-----|-----------------------------------|-------|---------|
|                  |         |                 |     | Result                            | Limit |         |
| 802.11a          | SISO    | 5180            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5240            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5745            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5825            | 1   | Refer To Test Graph               |       | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5240            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5745            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5825            | 1   | Refer To Test Graph               |       | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5230            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5755            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5795            | 1   | Refer To Test Graph               |       | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5240            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5745            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5825            | 1   | Refer To Test Graph               |       | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5230            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5755            | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5795            | 1   | Refer To Test Graph               |       | Pass    |

Note:  
1) EIRP[dBm]=E[dBuV/m]- 95.2, for d= 3 m;  
2) Level[dBm] results have calculated the antenna gain;  
3) Antenna gain= U-NII-1: 5150 MHz to 5250 MHz: 4.86 dBi and U-NII-3: 5725 MHz to 5850 MHz: 4.41 dBi

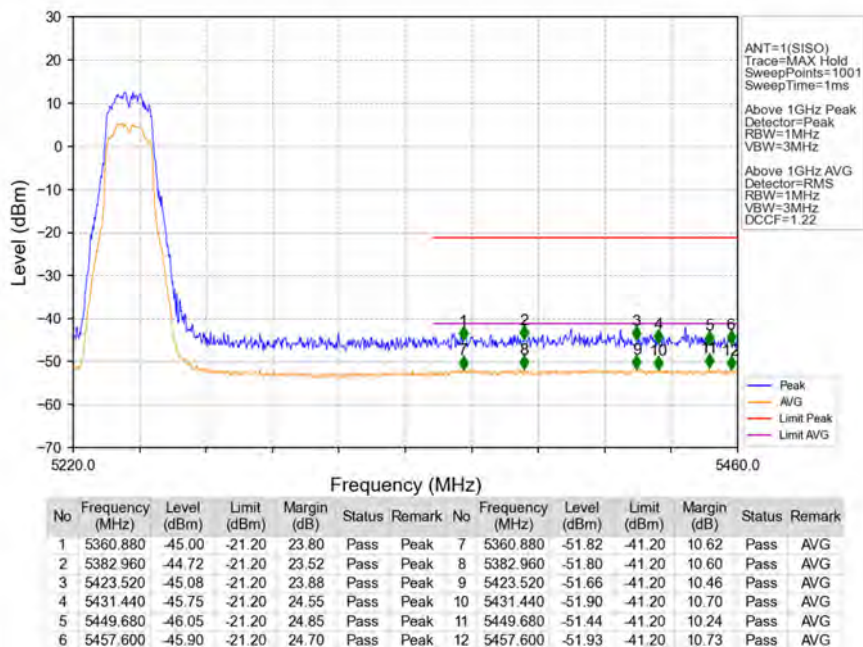
## 5.2 Test Graph

### 5.2.1 CSE

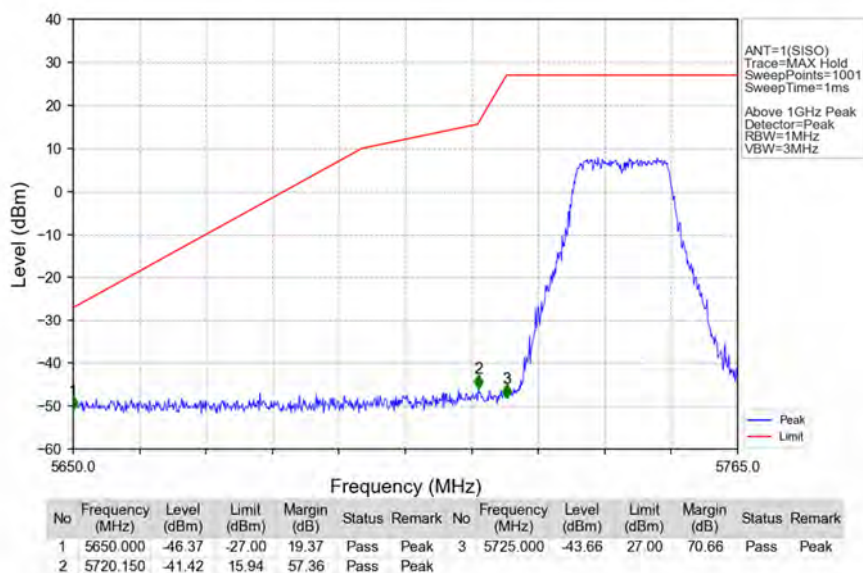
802.11a\_LCH\_5180MHz\_Ant1\_NTNV



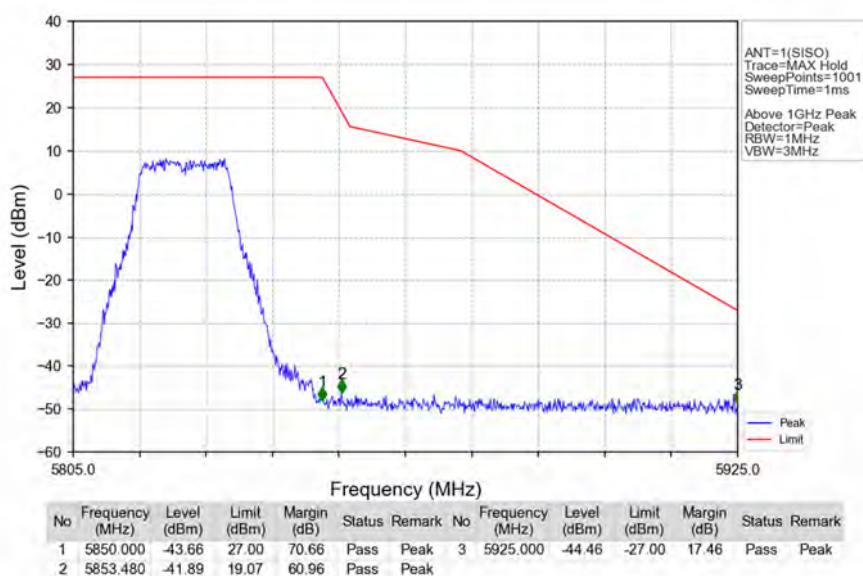
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



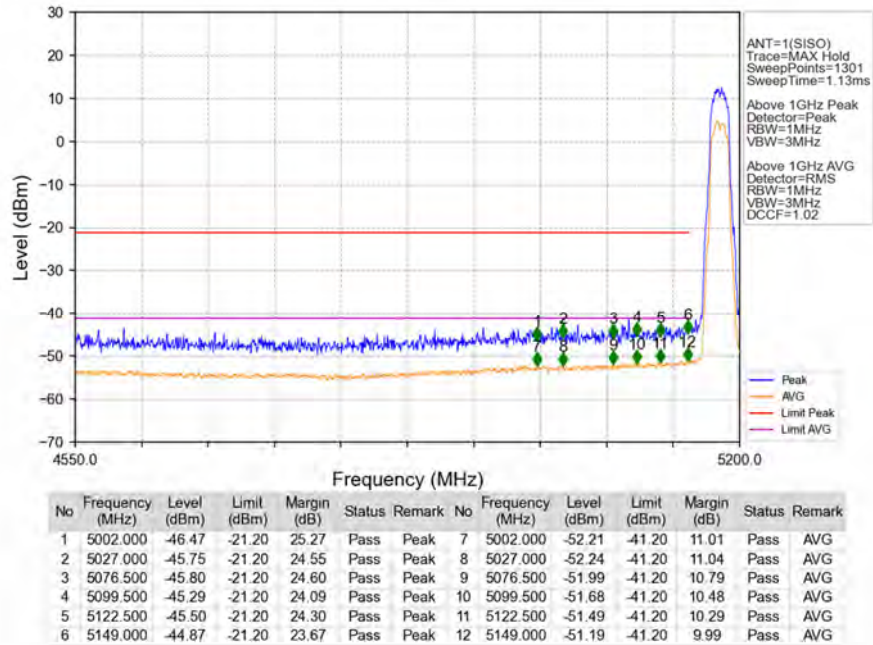
802.11a LCH\_5745MHz\_Ant1\_NTNV



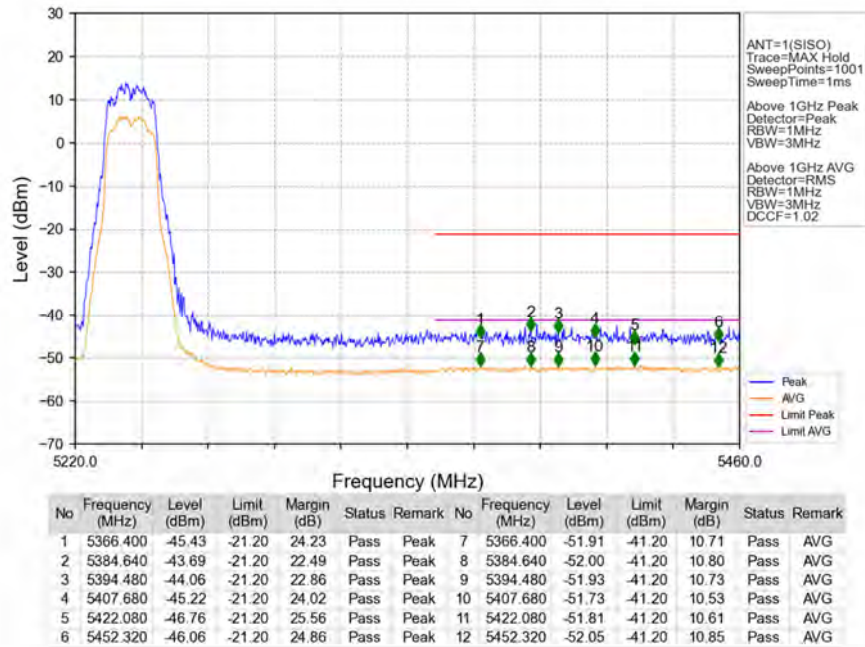
802.11a HCH\_5825MHz\_Ant1\_NTNV



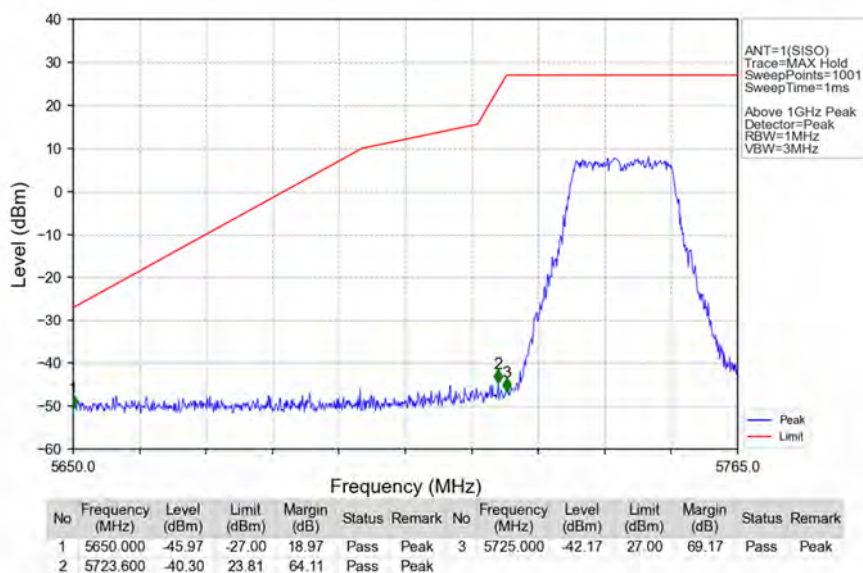
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



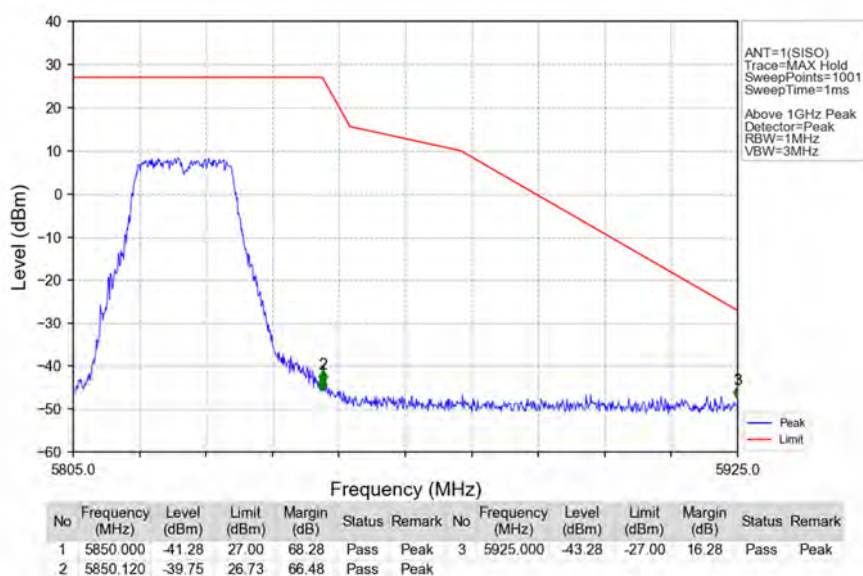
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



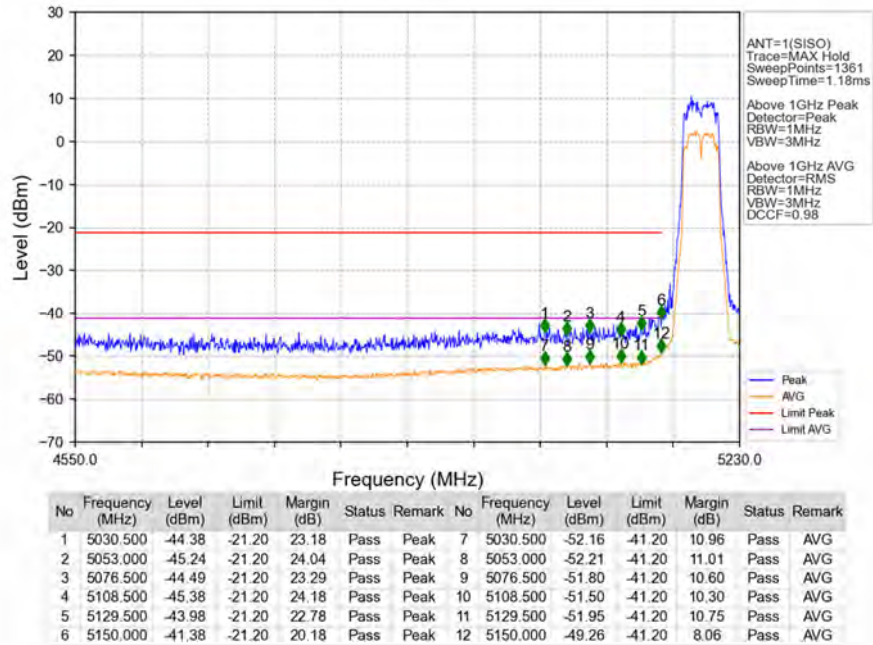
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



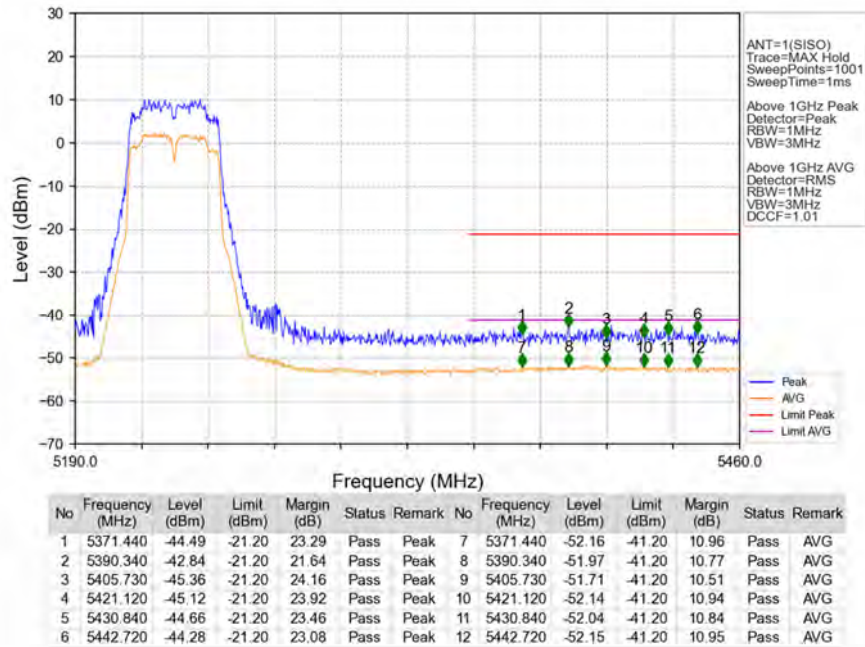
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



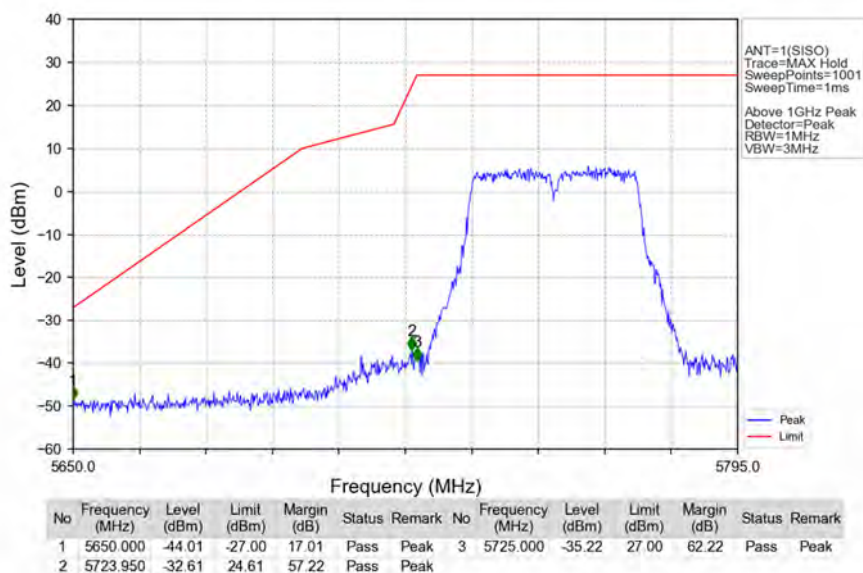
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



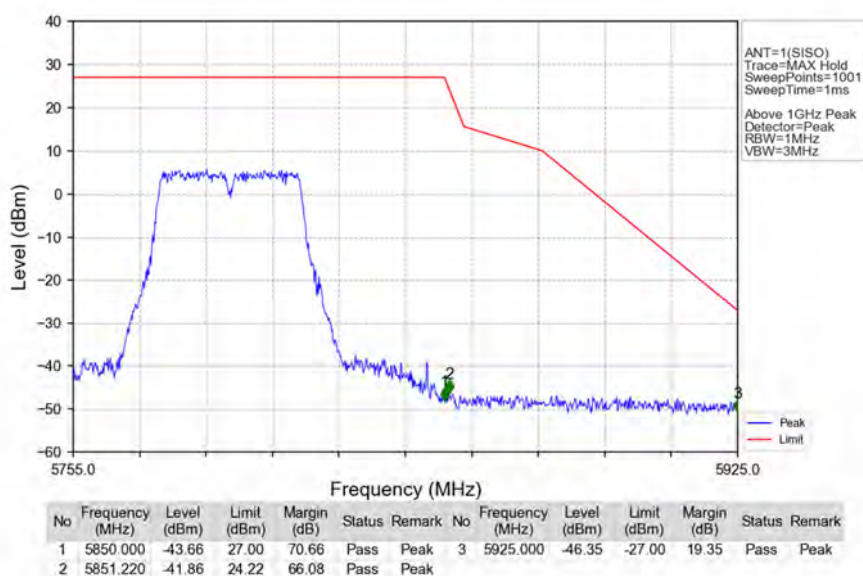
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



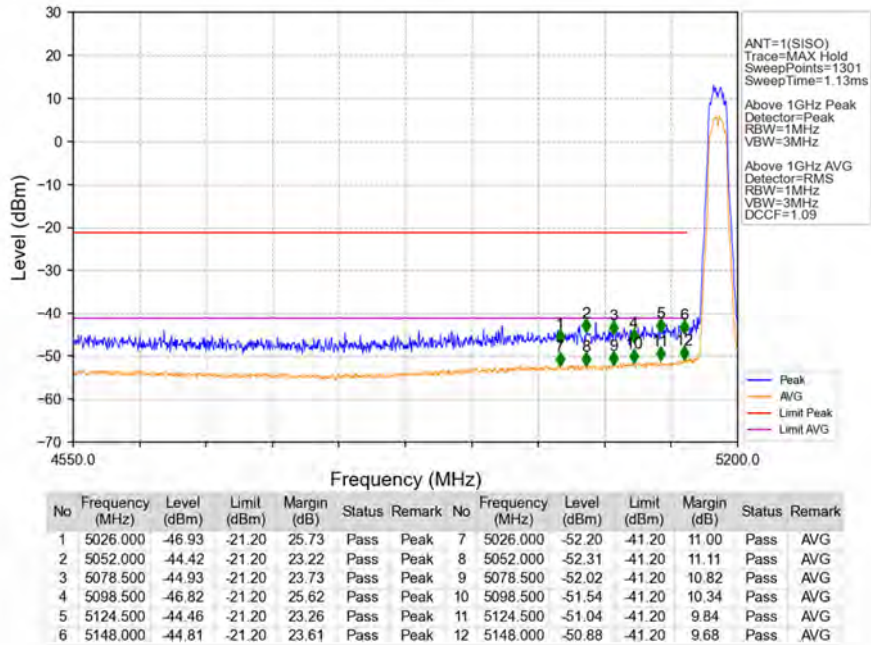
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



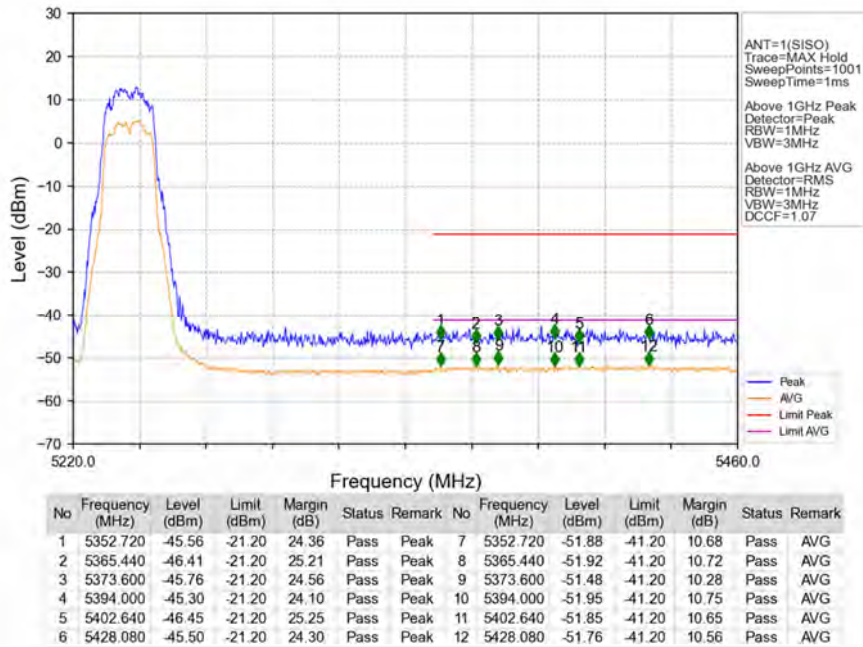
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



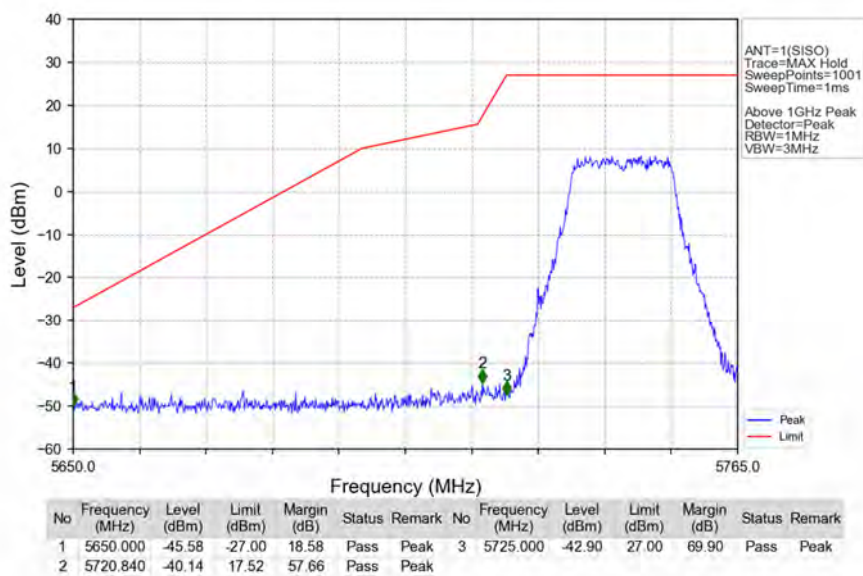
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



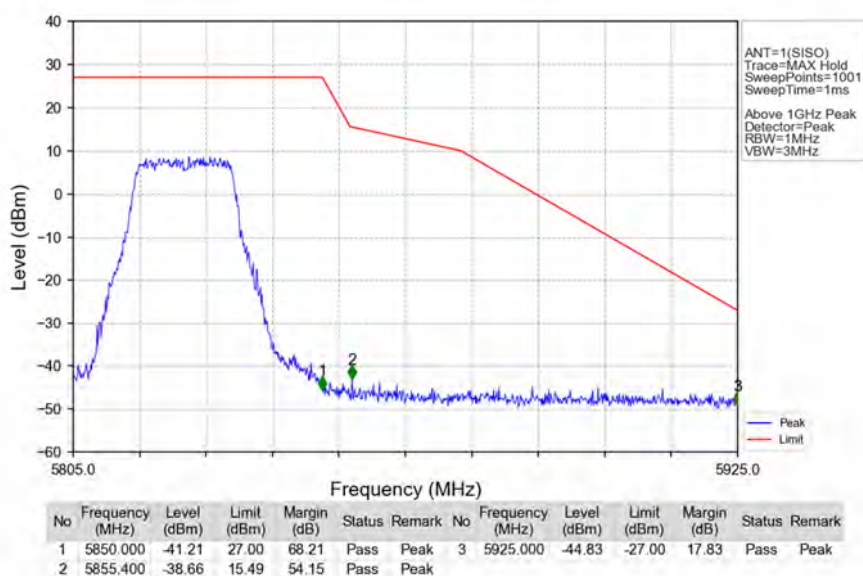
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



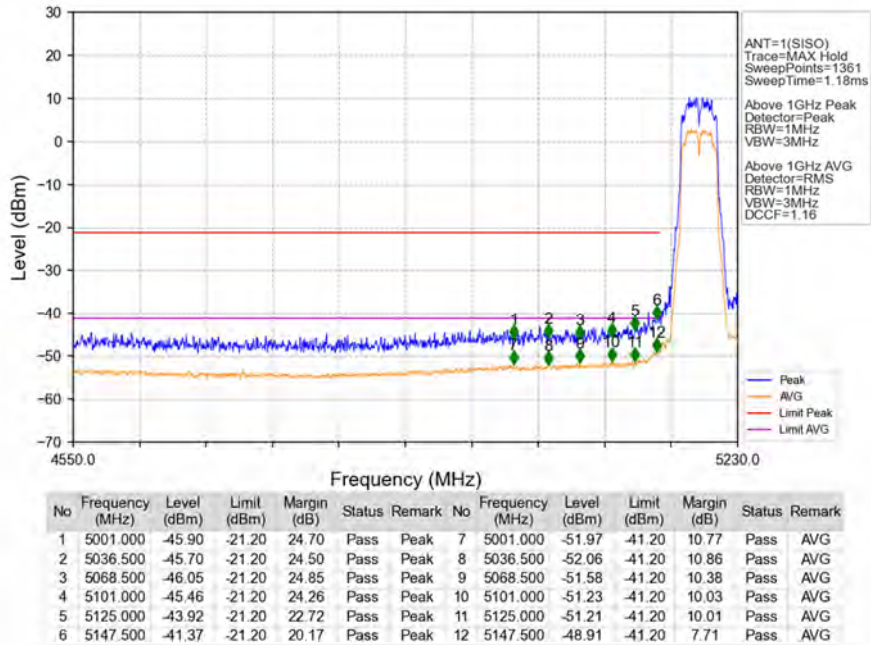
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



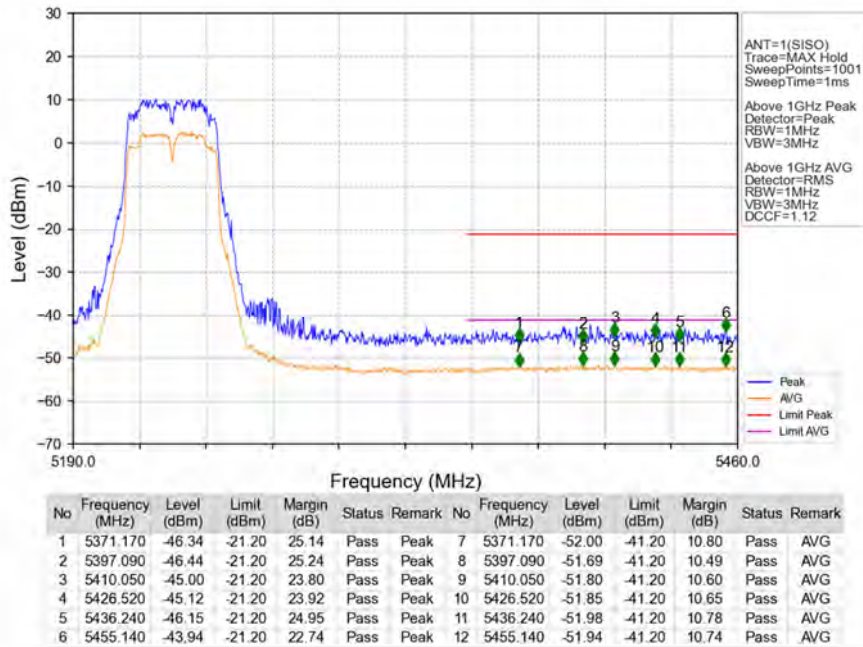
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



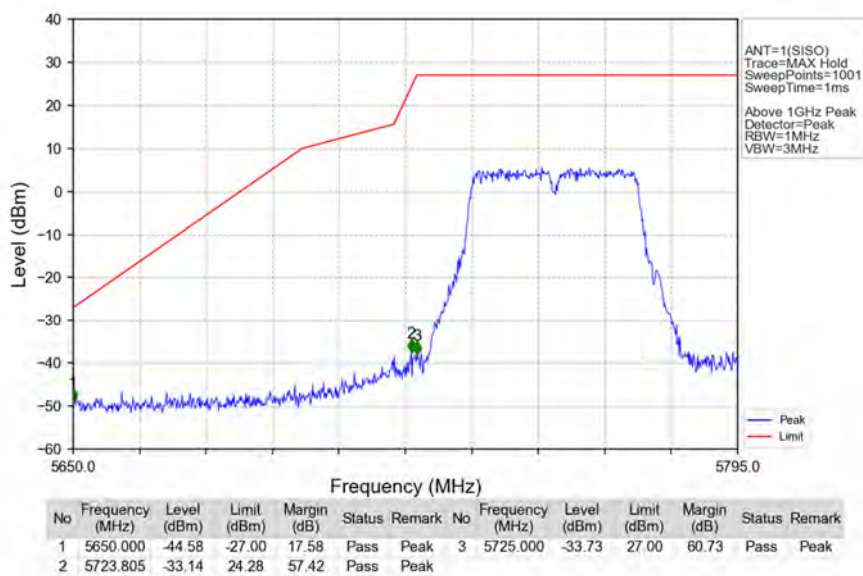
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



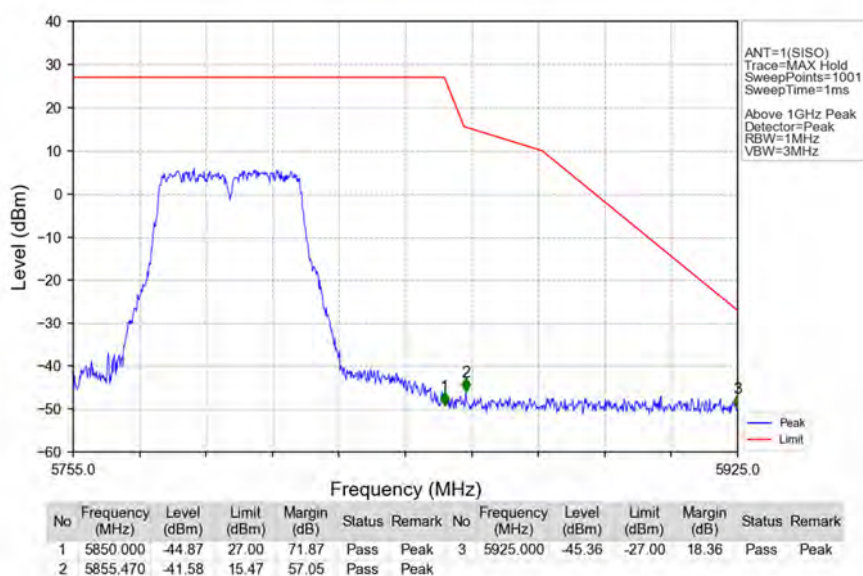
802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



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



802.11ac(VHT40)\_HCH\_5795MHz\_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 |
| 802.11a | SISO    | 5180            | 20               | 102           | 5180.040                 | 5150 to 5250 | Pass    |
|         |         |                 |                  | 120           | 5180.000                 | 5150 to 5250 | Pass    |
|         |         |                 |                  | 138           | 5180.040                 | 5150 to 5250 | Pass    |
|         |         |                 | -30              | 120           | 5180.000                 | 5150 to 5250 | Pass    |
|         |         |                 | -20              | 120           | 5180.000                 | 5150 to 5250 | Pass    |
|         |         |                 | -10              | 120           | 5180.000                 | 5150 to 5250 | Pass    |
|         |         |                 | 0                | 120           | 5180.040                 | 5150 to 5250 | Pass    |
|         |         |                 | 10               | 120           | 5180.000                 | 5150 to 5250 | Pass    |
|         |         |                 | 30               | 120           | 5179.980                 | 5150 to 5250 | Pass    |
|         |         |                 | 40               | 120           | 5180.040                 | 5150 to 5250 | Pass    |
|         |         |                 | 50               | 120           | 5180.020                 | 5150 to 5250 | Pass    |
|         |         | 5200            | 20               | 102           | 5200.060                 | 5150 to 5250 | Pass    |
|         |         |                 |                  | 120           | 5200.060                 | 5150 to 5250 | Pass    |
|         |         |                 |                  | 138           | 5200.040                 | 5150 to 5250 | Pass    |
|         |         |                 | -30              | 120           | 5200.020                 | 5150 to 5250 | Pass    |
|         |         |                 | -20              | 120           | 5199.940                 | 5150 to 5250 | Pass    |
|         |         |                 | -10              | 120           | 5199.980                 | 5150 to 5250 | Pass    |
|         |         |                 | 0                | 120           | 5199.980                 | 5150 to 5250 | Pass    |
|         |         |                 | 10               | 120           | 5199.940                 | 5150 to 5250 | Pass    |
|         |         |                 | 30               | 120           | 5200.020                 | 5150 to 5250 | Pass    |
|         |         |                 | 40               | 120           | 5200.000                 | 5150 to 5250 | Pass    |
|         |         |                 | 50               | 120           | 5200.080                 | 5150 to 5250 | Pass    |
|         |         | 5240            | 20               | 102           | 5240.040                 | 5150 to 5250 | Pass    |
|         |         |                 |                  | 120           | 5239.980                 | 5150 to 5250 | Pass    |
|         |         |                 |                  | 138           | 5240.020                 | 5150 to 5250 | Pass    |
|         |         |                 | -30              | 120           | 5239.980                 | 5150 to 5250 | Pass    |
|         |         |                 | -20              | 120           | 5240.020                 | 5150 to 5250 | Pass    |
|         |         |                 | -10              | 120           | 5239.960                 | 5150 to 5250 | Pass    |
|         |         |                 | 0                | 120           | 5240.040                 | 5150 to 5250 | Pass    |
|         |         |                 | 10               | 120           | 5240.020                 | 5150 to 5250 | Pass    |
|         |         |                 | 30               | 120           | 5240.100                 | 5150 to 5250 | Pass    |
|         |         |                 | 40               | 120           | 5240.060                 | 5150 to 5250 | Pass    |
|         |         |                 | 50               | 120           | 5240.000                 | 5150 to 5250 | Pass    |
|         |         | 5745            | 20               | 102           | 5744.960                 | 5725 to 5850 | Pass    |
|         |         |                 |                  | 120           | 5745.020                 | 5725 to 5850 | Pass    |
|         |         |                 |                  | 138           | 5745.000                 | 5725 to 5850 | Pass    |
|         |         |                 | -30              | 120           | 5745.000                 | 5725 to 5850 | Pass    |
|         |         |                 | -20              | 120           | 5745.040                 | 5725 to 5850 | Pass    |
|         |         |                 | -10              | 120           | 5745.040                 | 5725 to 5850 | Pass    |
|         |         |                 | 0                | 120           | 5745.060                 | 5725 to 5850 | Pass    |
|         |         |                 | 10               | 120           | 5745.020                 | 5725 to 5850 | Pass    |

|                   |      |      |     |     |          |              |      |
|-------------------|------|------|-----|-----|----------|--------------|------|
|                   |      |      | 30  | 120 | 5745.040 | 5725 to 5850 | Pass |
|                   |      |      | 40  | 120 | 5745.020 | 5725 to 5850 | Pass |
|                   |      |      | 50  | 120 | 5745.060 | 5725 to 5850 | Pass |
|                   |      | 5785 | 20  | 102 | 5785.060 | 5725 to 5850 | Pass |
|                   |      |      |     | 120 | 5785.040 | 5725 to 5850 | Pass |
|                   |      |      |     | 138 | 5785.040 | 5725 to 5850 | Pass |
|                   |      |      | -30 | 120 | 5785.000 | 5725 to 5850 | Pass |
|                   |      |      | -20 | 120 | 5785.040 | 5725 to 5850 | Pass |
|                   |      |      | -10 | 120 | 5785.080 | 5725 to 5850 | Pass |
|                   |      |      | 0   | 120 | 5785.060 | 5725 to 5850 | Pass |
|                   |      |      | 10  | 120 | 5785.040 | 5725 to 5850 | Pass |
|                   |      |      | 30  | 120 | 5784.980 | 5725 to 5850 | Pass |
|                   |      |      | 40  | 120 | 5785.040 | 5725 to 5850 | Pass |
|                   |      |      | 50  | 120 | 5785.040 | 5725 to 5850 | Pass |
|                   |      | 5825 | 20  | 102 | 5825.040 | 5725 to 5850 | Pass |
|                   |      |      |     | 120 | 5825.020 | 5725 to 5850 | Pass |
|                   |      |      |     | 138 | 5825.000 | 5725 to 5850 | Pass |
|                   |      |      | -30 | 120 | 5825.000 | 5725 to 5850 | Pass |
|                   |      |      | -20 | 120 | 5825.000 | 5725 to 5850 | Pass |
|                   |      |      | -10 | 120 | 5825.080 | 5725 to 5850 | Pass |
|                   |      |      | 0   | 120 | 5825.000 | 5725 to 5850 | Pass |
|                   |      |      | 10  | 120 | 5825.020 | 5725 to 5850 | Pass |
|                   |      |      | 30  | 120 | 5825.020 | 5725 to 5850 | Pass |
|                   |      |      | 40  | 120 | 5825.060 | 5725 to 5850 | Pass |
|                   |      |      | 50  | 120 | 5825.020 | 5725 to 5850 | Pass |
| 802.11n<br>(HT20) | SISO | 5180 | 20  | 102 | 5179.960 | 5150 to 5250 | Pass |
|                   |      |      |     | 120 | 5180.040 | 5150 to 5250 | Pass |
|                   |      |      |     | 138 | 5180.040 | 5150 to 5250 | Pass |
|                   |      |      | -30 | 120 | 5180.000 | 5150 to 5250 | Pass |
|                   |      |      | -20 | 120 | 5180.000 | 5150 to 5250 | Pass |
|                   |      |      | -10 | 120 | 5180.000 | 5150 to 5250 | Pass |
|                   |      |      | 0   | 120 | 5180.060 | 5150 to 5250 | Pass |
|                   |      |      | 10  | 120 | 5180.040 | 5150 to 5250 | Pass |
|                   |      |      | 30  | 120 | 5179.960 | 5150 to 5250 | Pass |
|                   |      |      | 40  | 120 | 5180.000 | 5150 to 5250 | Pass |
|                   |      |      | 50  | 120 | 5179.960 | 5150 to 5250 | Pass |
|                   |      | 5200 | 20  | 102 | 5199.980 | 5150 to 5250 | Pass |
|                   |      |      |     | 120 | 5200.020 | 5150 to 5250 | Pass |
|                   |      |      |     | 138 | 5200.040 | 5150 to 5250 | Pass |
|                   |      |      | -30 | 120 | 5200.040 | 5150 to 5250 | Pass |
|                   |      |      | -20 | 120 | 5200.040 | 5150 to 5250 | Pass |
|                   |      |      | -10 | 120 | 5200.000 | 5150 to 5250 | Pass |
|                   |      |      | 0   | 120 | 5200.040 | 5150 to 5250 | Pass |
|                   |      |      | 10  | 120 | 5200.020 | 5150 to 5250 | Pass |
|                   |      |      | 30  | 120 | 5200.060 | 5150 to 5250 | Pass |
|                   |      |      | 40  | 120 | 5200.020 | 5150 to 5250 | Pass |
|                   |      |      | 50  | 120 | 5199.980 | 5150 to 5250 | Pass |
|                   |      | 5240 | 20  | 102 | 5240.040 | 5150 to 5250 | Pass |
|                   |      |      |     | 120 | 5239.980 | 5150 to 5250 | Pass |
|                   |      |      |     | 138 | 5239.960 | 5150 to 5250 | Pass |
|                   |      |      | -30 | 120 | 5240.020 | 5150 to 5250 | Pass |
|                   |      |      | -20 | 120 | 5240.000 | 5150 to 5250 | Pass |

|                   |      |      |     |     |          |              |      |
|-------------------|------|------|-----|-----|----------|--------------|------|
|                   |      |      | -10 | 120 | 5240.020 | 5150 to 5250 | Pass |
|                   |      |      | 0   | 120 | 5239.940 | 5150 to 5250 | Pass |
|                   |      |      | 10  | 120 | 5240.040 | 5150 to 5250 | Pass |
|                   |      |      | 30  | 120 | 5240.020 | 5150 to 5250 | Pass |
|                   |      |      | 40  | 120 | 5240.020 | 5150 to 5250 | Pass |
|                   |      |      | 50  | 120 | 5240.060 | 5150 to 5250 | Pass |
|                   |      | 5745 | 20  | 102 | 5745.060 | 5725 to 5850 | Pass |
|                   |      |      |     | 120 | 5745.020 | 5725 to 5850 | Pass |
|                   |      |      |     | 138 | 5745.060 | 5725 to 5850 | Pass |
|                   |      |      | -30 | 120 | 5744.980 | 5725 to 5850 | Pass |
|                   |      |      | -20 | 120 | 5745.020 | 5725 to 5850 | Pass |
|                   |      |      | -10 | 120 | 5745.060 | 5725 to 5850 | Pass |
|                   |      |      | 0   | 120 | 5744.960 | 5725 to 5850 | Pass |
|                   |      |      | 10  | 120 | 5745.020 | 5725 to 5850 | Pass |
|                   |      |      | 30  | 120 | 5745.080 | 5725 to 5850 | Pass |
|                   |      |      | 40  | 120 | 5745.040 | 5725 to 5850 | Pass |
|                   |      |      | 50  | 120 | 5745.040 | 5725 to 5850 | Pass |
|                   |      | 5785 | 20  | 102 | 5785.000 | 5725 to 5850 | Pass |
|                   |      |      |     | 120 | 5785.040 | 5725 to 5850 | Pass |
|                   |      |      |     | 138 | 5785.000 | 5725 to 5850 | Pass |
|                   |      |      | -30 | 120 | 5784.960 | 5725 to 5850 | Pass |
|                   |      |      | -20 | 120 | 5785.040 | 5725 to 5850 | Pass |
|                   |      |      | -10 | 120 | 5785.040 | 5725 to 5850 | Pass |
|                   |      |      | 0   | 120 | 5784.980 | 5725 to 5850 | Pass |
|                   |      |      | 10  | 120 | 5785.040 | 5725 to 5850 | Pass |
|                   |      |      | 30  | 120 | 5785.000 | 5725 to 5850 | Pass |
|                   |      |      | 40  | 120 | 5785.000 | 5725 to 5850 | Pass |
|                   |      |      | 50  | 120 | 5785.020 | 5725 to 5850 | Pass |
|                   |      | 5825 | 20  | 102 | 5825.000 | 5725 to 5850 | Pass |
|                   |      |      |     | 120 | 5825.040 | 5725 to 5850 | Pass |
|                   |      |      |     | 138 | 5825.040 | 5725 to 5850 | Pass |
|                   |      |      | -30 | 120 | 5825.080 | 5725 to 5850 | Pass |
|                   |      |      | -20 | 120 | 5825.000 | 5725 to 5850 | Pass |
|                   |      |      | -10 | 120 | 5824.980 | 5725 to 5850 | Pass |
|                   |      |      | 0   | 120 | 5825.000 | 5725 to 5850 | Pass |
|                   |      |      | 10  | 120 | 5825.020 | 5725 to 5850 | Pass |
|                   |      |      | 30  | 120 | 5824.980 | 5725 to 5850 | Pass |
|                   |      |      | 40  | 120 | 5825.000 | 5725 to 5850 | Pass |
|                   |      |      | 50  | 120 | 5825.100 | 5725 to 5850 | Pass |
| 802.11n<br>(HT40) | SISO | 5190 | 20  | 102 | 5190.080 | 5150 to 5250 | Pass |
|                   |      |      |     | 120 | 5190.080 | 5150 to 5250 | Pass |
|                   |      |      |     | 138 | 5190.080 | 5150 to 5250 | Pass |
|                   |      |      | -30 | 120 | 5190.080 | 5150 to 5250 | Pass |
|                   |      |      | -20 | 120 | 5190.080 | 5150 to 5250 | Pass |
|                   |      |      | -10 | 120 | 5190.080 | 5150 to 5250 | Pass |
|                   |      |      | 0   | 120 | 5190.000 | 5150 to 5250 | Pass |
|                   |      |      | 10  | 120 | 5190.040 | 5150 to 5250 | Pass |
|                   |      |      | 30  | 120 | 5190.080 | 5150 to 5250 | Pass |
|                   |      |      | 40  | 120 | 5190.040 | 5150 to 5250 | Pass |
|                   |      |      | 50  | 120 | 5190.080 | 5150 to 5250 | Pass |
|                   |      | 5230 | 20  | 102 | 5230.040 | 5150 to 5250 | Pass |
|                   |      |      |     | 120 | 5230.080 | 5150 to 5250 | Pass |

|                     |      |      |     |     |          |              |      |
|---------------------|------|------|-----|-----|----------|--------------|------|
| 802.11ac<br>(VHT20) | SISO |      |     | 138 | 5230.080 | 5150 to 5250 | Pass |
|                     |      |      | -30 | 120 | 5230.080 | 5150 to 5250 | Pass |
|                     |      |      | -20 | 120 | 5230.040 | 5150 to 5250 | Pass |
|                     |      |      | -10 | 120 | 5230.040 | 5150 to 5250 | Pass |
|                     |      |      | 0   | 120 | 5230.040 | 5150 to 5250 | Pass |
|                     |      |      | 10  | 120 | 5230.040 | 5150 to 5250 | Pass |
|                     |      |      | 30  | 120 | 5230.080 | 5150 to 5250 | Pass |
|                     |      |      | 40  | 120 | 5230.080 | 5150 to 5250 | Pass |
|                     |      |      | 50  | 120 | 5230.000 | 5150 to 5250 | Pass |
|                     |      | 5755 | 20  | 102 | 5755.080 | 5725 to 5850 | Pass |
|                     |      |      |     | 120 | 5755.080 | 5725 to 5850 | Pass |
|                     |      |      |     | 138 | 5755.040 | 5725 to 5850 | Pass |
|                     |      |      | -30 | 120 | 5755.040 | 5725 to 5850 | Pass |
|                     |      |      | -20 | 120 | 5755.040 | 5725 to 5850 | Pass |
|                     |      |      | -10 | 120 | 5755.040 | 5725 to 5850 | Pass |
|                     |      |      | 0   | 120 | 5755.040 | 5725 to 5850 | Pass |
|                     |      |      | 10  | 120 | 5755.080 | 5725 to 5850 | Pass |
|                     |      |      | 30  | 120 | 5755.120 | 5725 to 5850 | Pass |
|                     |      |      | 40  | 120 | 5755.080 | 5725 to 5850 | Pass |
|                     |      |      | 50  | 120 | 5755.040 | 5725 to 5850 | Pass |
|                     |      | 5795 | 20  | 102 | 5795.080 | 5725 to 5850 | Pass |
|                     |      |      |     | 120 | 5795.040 | 5725 to 5850 | Pass |
|                     |      |      |     | 138 | 5795.080 | 5725 to 5850 | Pass |
|                     |      |      | -30 | 120 | 5795.080 | 5725 to 5850 | Pass |
|                     |      |      | -20 | 120 | 5795.080 | 5725 to 5850 | Pass |
|                     |      |      | -10 | 120 | 5795.120 | 5725 to 5850 | Pass |
|                     |      |      | 0   | 120 | 5795.120 | 5725 to 5850 | Pass |
|                     |      |      | 10  | 120 | 5795.040 | 5725 to 5850 | Pass |
|                     |      |      | 30  | 120 | 5795.040 | 5725 to 5850 | Pass |
|                     |      |      | 40  | 120 | 5795.040 | 5725 to 5850 | Pass |
|                     |      |      | 50  | 120 | 5795.080 | 5725 to 5850 | Pass |
|                     |      | 5180 | 20  | 102 | 5180.020 | 5150 to 5250 | Pass |
|                     |      |      |     | 120 | 5180.020 | 5150 to 5250 | Pass |
|                     |      |      |     | 138 | 5179.980 | 5150 to 5250 | Pass |
|                     |      |      | -30 | 120 | 5179.940 | 5150 to 5250 | Pass |
|                     |      |      | -20 | 120 | 5180.040 | 5150 to 5250 | Pass |
|                     |      |      | -10 | 120 | 5180.020 | 5150 to 5250 | Pass |
|                     |      |      | 0   | 120 | 5180.000 | 5150 to 5250 | Pass |
|                     |      |      | 10  | 120 | 5180.100 | 5150 to 5250 | Pass |
|                     |      |      | 30  | 120 | 5180.020 | 5150 to 5250 | Pass |
|                     |      |      | 40  | 120 | 5180.000 | 5150 to 5250 | Pass |
|                     |      |      | 50  | 120 | 5179.980 | 5150 to 5250 | Pass |
|                     |      | 5200 | 20  | 102 | 5200.060 | 5150 to 5250 | Pass |
|                     |      |      |     | 120 | 5200.060 | 5150 to 5250 | Pass |
|                     |      |      |     | 138 | 5200.020 | 5150 to 5250 | Pass |
|                     |      |      | -30 | 120 | 5200.000 | 5150 to 5250 | Pass |
|                     |      |      | -20 | 120 | 5200.020 | 5150 to 5250 | Pass |
|                     |      |      | -10 | 120 | 5199.980 | 5150 to 5250 | Pass |
|                     |      |      | 0   | 120 | 5199.960 | 5150 to 5250 | Pass |
|                     |      |      | 10  | 120 | 5200.040 | 5150 to 5250 | Pass |
|                     |      |      | 30  | 120 | 5200.020 | 5150 to 5250 | Pass |
|                     |      |      | 40  | 120 | 5200.020 | 5150 to 5250 | Pass |

|                     |      |      |     |     |          |              |      |
|---------------------|------|------|-----|-----|----------|--------------|------|
|                     |      | 5240 | 50  | 120 | 5200.020 | 5150 to 5250 | Pass |
|                     |      |      | 20  | 102 | 5240.020 | 5150 to 5250 | Pass |
|                     |      |      |     | 120 | 5240.040 | 5150 to 5250 | Pass |
|                     |      |      |     | 138 | 5239.980 | 5150 to 5250 | Pass |
|                     |      |      |     | 120 | 5240.060 | 5150 to 5250 | Pass |
|                     |      |      | -30 | 120 | 5240.020 | 5150 to 5250 | Pass |
|                     |      |      | -20 | 120 | 5240.060 | 5150 to 5250 | Pass |
|                     |      |      | -10 | 120 | 5240.040 | 5150 to 5250 | Pass |
|                     |      |      | 0   | 120 | 5240.060 | 5150 to 5250 | Pass |
|                     |      |      | 10  | 120 | 5240.040 | 5150 to 5250 | Pass |
|                     |      |      | 30  | 120 | 5240.080 | 5150 to 5250 | Pass |
|                     |      |      | 40  | 120 | 5239.980 | 5150 to 5250 | Pass |
|                     |      |      | 50  | 120 | 5240.020 | 5150 to 5250 | Pass |
|                     |      | 5745 | 20  | 102 | 5745.040 | 5725 to 5850 | Pass |
|                     |      |      |     | 120 | 5745.080 | 5725 to 5850 | Pass |
|                     |      |      |     | 138 | 5745.060 | 5725 to 5850 | Pass |
|                     |      |      |     | 120 | 5745.060 | 5725 to 5850 | Pass |
|                     |      |      | -30 | 120 | 5745.040 | 5725 to 5850 | Pass |
|                     |      |      | -20 | 120 | 5745.020 | 5725 to 5850 | Pass |
|                     |      |      | -10 | 120 | 5745.120 | 5725 to 5850 | Pass |
|                     |      |      | 0   | 120 | 5745.080 | 5725 to 5850 | Pass |
|                     |      |      | 10  | 120 | 5745.020 | 5725 to 5850 | Pass |
|                     |      |      | 30  | 120 | 5744.980 | 5725 to 5850 | Pass |
|                     |      |      | 40  | 120 | 5745.020 | 5725 to 5850 | Pass |
|                     |      |      | 50  | 120 | 5745.040 | 5725 to 5850 | Pass |
|                     |      | 5785 | 20  | 102 | 5785.040 | 5725 to 5850 | Pass |
|                     |      |      |     | 120 | 5785.060 | 5725 to 5850 | Pass |
|                     |      |      |     | 138 | 5784.940 | 5725 to 5850 | Pass |
|                     |      |      |     | 120 | 5784.960 | 5725 to 5850 | Pass |
|                     |      |      | -30 | 120 | 5785.100 | 5725 to 5850 | Pass |
|                     |      |      | -20 | 120 | 5784.980 | 5725 to 5850 | Pass |
|                     |      |      | -10 | 120 | 5785.100 | 5725 to 5850 | Pass |
|                     |      |      | 0   | 120 | 5785.040 | 5725 to 5850 | Pass |
|                     |      |      | 10  | 120 | 5785.020 | 5725 to 5850 | Pass |
|                     |      |      | 30  | 120 | 5784.980 | 5725 to 5850 | Pass |
|                     |      |      | 40  | 120 | 5785.000 | 5725 to 5850 | Pass |
|                     |      |      | 50  | 120 | 5785.040 | 5725 to 5850 | Pass |
|                     |      | 5825 | 20  | 102 | 5825.040 | 5725 to 5850 | Pass |
|                     |      |      |     | 120 | 5825.060 | 5725 to 5850 | Pass |
|                     |      |      |     | 138 | 5825.040 | 5725 to 5850 | Pass |
|                     |      |      |     | 120 | 5825.000 | 5725 to 5850 | Pass |
|                     |      |      | -30 | 120 | 5825.040 | 5725 to 5850 | Pass |
|                     |      |      | -20 | 120 | 5825.020 | 5725 to 5850 | Pass |
|                     |      |      | -10 | 120 | 5825.060 | 5725 to 5850 | Pass |
|                     |      |      | 0   | 120 | 5825.020 | 5725 to 5850 | Pass |
|                     |      |      | 10  | 120 | 5825.000 | 5725 to 5850 | Pass |
|                     |      |      | 30  | 120 | 5825.000 | 5725 to 5850 | Pass |
|                     |      |      | 40  | 120 | 5825.040 | 5725 to 5850 | Pass |
|                     |      |      | 50  | 120 | 5825.040 | 5725 to 5850 | Pass |
| 802.11ac<br>(VHT40) | SISO | 5190 | 20  | 102 | 5190.040 | 5150 to 5250 | Pass |
|                     |      |      |     | 120 | 5190.040 | 5150 to 5250 | Pass |
|                     |      |      |     | 138 | 5190.080 | 5150 to 5250 | Pass |
|                     |      |      | -30 | 120 | 5190.040 | 5150 to 5250 | Pass |
|                     |      |      | -20 | 120 | 5190.080 | 5150 to 5250 | Pass |
|                     |      |      | -10 | 120 | 5190.080 | 5150 to 5250 | Pass |
|                     |      |      | 0   | 120 | 5190.040 | 5150 to 5250 | Pass |

|  |  |      |     |     |          |              |      |
|--|--|------|-----|-----|----------|--------------|------|
|  |  |      | 10  | 120 | 5190.080 | 5150 to 5250 | Pass |
|  |  |      | 30  | 120 | 5190.080 | 5150 to 5250 | Pass |
|  |  |      | 40  | 120 | 5190.080 | 5150 to 5250 | Pass |
|  |  |      | 50  | 120 | 5190.000 | 5150 to 5250 | Pass |
|  |  | 5230 | 20  | 102 | 5230.080 | 5150 to 5250 | Pass |
|  |  |      |     | 120 | 5230.080 | 5150 to 5250 | Pass |
|  |  |      |     | 138 | 5230.080 | 5150 to 5250 | Pass |
|  |  |      | -30 | 120 | 5230.080 | 5150 to 5250 | Pass |
|  |  |      | -20 | 120 | 5230.040 | 5150 to 5250 | Pass |
|  |  |      | -10 | 120 | 5230.040 | 5150 to 5250 | Pass |
|  |  |      | 0   | 120 | 5230.040 | 5150 to 5250 | Pass |
|  |  |      | 10  | 120 | 5230.080 | 5150 to 5250 | Pass |
|  |  |      | 30  | 120 | 5230.040 | 5150 to 5250 | Pass |
|  |  |      | 40  | 120 | 5230.080 | 5150 to 5250 | Pass |
|  |  |      | 50  | 120 | 5230.080 | 5150 to 5250 | Pass |
|  |  | 5755 | 20  | 102 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      |     | 120 | 5755.000 | 5725 to 5850 | Pass |
|  |  |      |     | 138 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      | -30 | 120 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      | -20 | 120 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5755.040 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5755.000 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5755.080 | 5725 to 5850 | Pass |
|  |  | 5795 | 20  | 102 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |     | 120 | 5795.160 | 5725 to 5850 | Pass |
|  |  |      |     | 138 | 5795.120 | 5725 to 5850 | Pass |
|  |  |      | -30 | 120 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      | -20 | 120 | 5795.040 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5795.040 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5795.040 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5795.120 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5795.120 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5795.040 | 5725 to 5850 | Pass |

----- End of Report -----