

## 4. Maximum Power Spectral Density

### 4.1 Test Result

#### 4.1.1 PSD

| Mode           | TX Type | Frequency (MHz) | RU | RU Pos | Maximum PSD (dBm/MHz) |       |      |        | Verdict |
|----------------|---------|-----------------|----|--------|-----------------------|-------|------|--------|---------|
|                |         |                 |    |        | ANT1                  | ANT2  | MIMO | Limit  |         |
| 802.11a        | SISO    | 5180            | /  | /      | 3.27                  | 2.67  | /    | <=7.58 | Pass    |
|                |         | 5200            | /  | /      | 3.67                  | 3.15  | /    | <=7.58 | Pass    |
|                |         | 5240            | /  | /      | 3.65                  | 3.05  | /    | <=7.58 | Pass    |
|                |         | 5260            | /  | /      | 3.62                  | 3.28  | /    | <=7.58 | Pass    |
|                |         | 5300            | /  | /      | 3.47                  | 3.56  | /    | <=7.58 | Pass    |
|                |         | 5320            | /  | /      | 3.35                  | 3.12  | /    | <=7.58 | Pass    |
|                |         | 5500            | /  | /      | 3.30                  | 1.93  | /    | <=7.58 | Pass    |
|                |         | 5580            | /  | /      | 2.76                  | 1.90  | /    | <=7.58 | Pass    |
|                |         | 5700            | /  | /      | 2.92                  | 2.59  | /    | <=7.58 | Pass    |
| 802.11n (HT20) | MIMO    | 5180            | /  | /      | 3.31                  | 3.03  | 6.15 | <=7.58 | Pass    |
|                |         | 5200            | /  | /      | 3.53                  | 3.12  | 6.25 | <=7.58 | Pass    |
|                |         | 5240            | /  | /      | 3.74                  | 3.64  | 6.58 | <=7.58 | Pass    |
|                |         | 5260            | /  | /      | 3.16                  | 3.40  | 6.12 | <=7.58 | Pass    |
|                |         | 5300            | /  | /      | 3.25                  | 3.49  | 6.30 | <=7.58 | Pass    |
|                |         | 5320            | /  | /      | 3.53                  | 3.78  | 6.52 | <=7.58 | Pass    |
|                |         | 5500            | /  | /      | 4.19                  | 2.90  | 6.14 | <=7.58 | Pass    |
|                |         | 5580            | /  | /      | 3.69                  | 2.84  | 5.78 | <=7.58 | Pass    |
|                |         | 5700            | /  | /      | 3.37                  | 3.34  | 6.10 | <=7.58 | Pass    |
| 802.11n (HT40) | MIMO    | 5190            | /  | /      | 0.41                  | 0.21  | 3.26 | <=7.58 | Pass    |
|                |         | 5230            | /  | /      | 1.12                  | 0.90  | 4.02 | <=7.58 | Pass    |
|                |         | 5270            | /  | /      | 0.54                  | 0.78  | 3.50 | <=7.58 | Pass    |
|                |         | 5310            | /  | /      | 0.80                  | 0.73  | 3.53 | <=7.58 | Pass    |
|                |         | 5510            | /  | /      | 0.78                  | -0.07 | 2.87 | <=7.58 | Pass    |
|                |         | 5550            | /  | /      | 1.20                  | 0.31  | 3.26 | <=7.58 | Pass    |
|                |         | 5670            | /  | /      | 0.76                  | 0.51  | 3.24 | <=7.58 | Pass    |



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|                      |      |      |       |      |       |       |       |        |      |
|----------------------|------|------|-------|------|-------|-------|-------|--------|------|
| 802.11ac<br>(VHT20)  | MIMO | 5180 | /     | /    | 3.27  | 3.13  | 6.11  | <=7.58 | Pass |
|                      |      | 5200 | /     | /    | 3.38  | 3.07  | 6.15  | <=7.58 | Pass |
|                      |      | 5240 | /     | /    | 3.69  | 3.60  | 6.49  | <=7.58 | Pass |
|                      |      | 5260 | /     | /    | 3.16  | 3.28  | 6.12  | <=7.58 | Pass |
|                      |      | 5300 | /     | /    | 3.37  | 3.53  | 6.22  | <=7.58 | Pass |
|                      |      | 5320 | /     | /    | 3.39  | 3.73  | 6.52  | <=7.58 | Pass |
|                      |      | 5500 | /     | /    | 3.81  | 2.46  | 5.75  | <=7.58 | Pass |
|                      |      | 5580 | /     | /    | 3.99  | 3.26  | 6.22  | <=7.58 | Pass |
|                      |      | 5700 | /     | /    | 3.75  | 3.49  | 6.43  | <=7.58 | Pass |
| 802.11ac<br>(VHT40)  | MIMO | 5190 | /     | /    | 0.51  | 0.51  | 3.48  | <=7.58 | Pass |
|                      |      | 5230 | /     | /    | 0.88  | 0.85  | 3.76  | <=7.58 | Pass |
|                      |      | 5270 | /     | /    | 0.44  | 0.67  | 3.41  | <=7.58 | Pass |
|                      |      | 5310 | /     | /    | 0.70  | 0.91  | 3.58  | <=7.58 | Pass |
|                      |      | 5510 | /     | /    | 1.03  | -0.26 | 2.89  | <=7.58 | Pass |
|                      |      | 5550 | /     | /    | 0.81  | 0.28  | 2.97  | <=7.58 | Pass |
|                      |      | 5670 | /     | /    | 0.34  | 0.26  | 2.95  | <=7.58 | Pass |
| 802.11ac<br>(VHT80)  | MIMO | 5210 | /     | /    | -2.25 | -2.04 | 0.85  | <=7.58 | Pass |
|                      |      | 5290 | /     | /    | -2.47 | -2.33 | 0.55  | <=7.58 | Pass |
|                      |      | 5530 | /     | /    | -1.57 | -1.99 | 0.73  | <=7.58 | Pass |
|                      |      | 5610 | /     | /    | -2.40 | -2.51 | 0.08  | <=7.58 | Pass |
| 802.11ac<br>(VHT160) | MIMO | 5570 | /     | /    | -4.85 | -5.16 | -2.56 | <=7.58 | Pass |
| 802.11ax<br>(HEW20)  | MIMO | 5180 | RU242 | Left | 3.09  | 2.98  | 5.96  | <=7.58 | Pass |
|                      |      | 5200 | RU242 | Left | 3.44  | 3.07  | 6.27  | <=7.58 | Pass |
|                      |      | 5240 | RU242 | Left | 3.69  | 3.54  | 6.51  | <=7.58 | Pass |
|                      |      | 5260 | RU242 | Left | 3.14  | 3.43  | 6.28  | <=7.58 | Pass |
|                      |      | 5300 | RU242 | Left | 3.25  | 3.46  | 6.17  | <=7.58 | Pass |
|                      |      | 5320 | RU242 | Left | 3.34  | 3.88  | 6.33  | <=7.58 | Pass |
|                      |      | 5500 | RU242 | Left | 3.82  | 2.48  | 5.75  | <=7.58 | Pass |
|                      |      | 5580 | RU242 | Left | 3.67  | 2.99  | 5.91  | <=7.58 | Pass |
|                      |      | 5700 | RU242 | Left | 3.31  | 3.49  | 6.16  | <=7.58 | Pass |



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|----------------------|------|------|---------|------|-------|-------|-------|--------|------|
| 802.11ax<br>(HEW40)  | MIMO | 5190 | RU484   | Left | 0.13  | 0.05  | 3.07  | <=7.58 | Pass |
|                      |      | 5230 | RU484   | Left | 0.60  | 0.26  | 3.38  | <=7.58 | Pass |
|                      |      | 5270 | RU484   | Left | 0.12  | 0.18  | 3.08  | <=7.58 | Pass |
|                      |      | 5310 | RU484   | Left | 0.67  | 0.84  | 3.49  | <=7.58 | Pass |
|                      |      | 5510 | RU484   | Left | 0.74  | -0.24 | 2.86  | <=7.58 | Pass |
|                      |      | 5550 | RU484   | Left | 0.31  | -0.14 | 2.58  | <=7.58 | Pass |
|                      |      | 5670 | RU484   | Left | 0.05  | -0.02 | 2.71  | <=7.58 | Pass |
| 802.11ax<br>(HEW80)  | MIMO | 5210 | RU996   | Left | -2.33 | -2.08 | 0.80  | <=7.58 | Pass |
|                      |      | 5290 | RU996   | Left | -2.62 | -2.24 | 0.46  | <=7.58 | Pass |
|                      |      | 5530 | RU996   | Left | -1.43 | -1.95 | 0.74  | <=7.58 | Pass |
|                      |      | 5610 | RU996   | Left | -2.21 | -2.39 | 0.24  | <=7.58 | Pass |
| 802.11ax<br>(HEW160) | MIMO | 5570 | 2xRU996 | Left | -4.51 | -4.86 | -2.39 | <=7.58 | Pass |



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## 4.1.2 PSD-Band3

| Mode             | TX Type | Frequency (MHz) | RU    | RU Pos | Maximum PSD (dBm/500kHz) |       |       |         | Verdict |
|------------------|---------|-----------------|-------|--------|--------------------------|-------|-------|---------|---------|
|                  |         |                 |       |        | ANT1                     | ANT2  | MIMO  | Limit   |         |
| 802.11a          | SISO    | 5745            | /     | /      | 0.52                     | 0.06  | /     | <=27.22 | Pass    |
|                  |         | 5785            | /     | /      | 0.48                     | -0.48 | /     | <=27.22 | Pass    |
|                  |         | 5825            | /     | /      | 0.37                     | -0.99 | /     | <=27.22 | Pass    |
| 802.11n (HT20)   | MIMO    | 5745            | /     | /      | 1.08                     | 0.49  | 3.69  | <=27.22 | Pass    |
|                  |         | 5785            | /     | /      | 1.18                     | 0.36  | 3.59  | <=27.22 | Pass    |
|                  |         | 5825            | /     | /      | 1.22                     | -0.29 | 3.31  | <=27.22 | Pass    |
| 802.11n (HT40)   | MIMO    | 5755            | /     | /      | -2.25                    | -2.60 | 0.26  | <=27.22 | Pass    |
|                  |         | 5795            | /     | /      | -1.89                    | -2.89 | 0.33  | <=27.22 | Pass    |
| 802.11ac (VHT20) | MIMO    | 5745            | /     | /      | 0.86                     | 0.35  | 3.44  | <=27.22 | Pass    |
|                  |         | 5785            | /     | /      | 0.76                     | 0.12  | 3.37  | <=27.22 | Pass    |
|                  |         | 5825            | /     | /      | 1.15                     | 0.03  | 3.44  | <=27.22 | Pass    |
| 802.11ac (VHT40) | MIMO    | 5755            | /     | /      | -2.57                    | -2.84 | 0.16  | <=27.22 | Pass    |
|                  |         | 5795            | /     | /      | -2.03                    | -3.16 | 0.15  | <=27.22 | Pass    |
| 802.11ac (VHT80) | MIMO    | 5775            | /     | /      | -4.80                    | -5.20 | -2.03 | <=27.22 | Pass    |
| 802.11ax (HEW20) | MIMO    | 5745            | RU242 | Left   | 0.77                     | 0.43  | 3.50  | <=27.22 | Pass    |
|                  |         | 5785            | RU242 | Left   | 0.80                     | 0.22  | 3.26  | <=27.22 | Pass    |
|                  |         | 5825            | RU242 | Left   | 1.27                     | -0.06 | 3.46  | <=27.22 | Pass    |
| 802.11ax (HEW40) | MIMO    | 5755            | RU484 | Left   | -2.35                    | -2.68 | 0.35  | <=27.22 | Pass    |
|                  |         | 5795            | RU484 | Left   | -2.06                    | -2.99 | 0.37  | <=27.22 | Pass    |
| 802.11ax (HEW80) | MIMO    | 5775            | RU996 | Left   | -4.78                    | -4.99 | -2.03 | <=27.22 | Pass    |



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## 4.1.3 PSD for Straddle Channel

| Mode              | TX Type | Frequency (MHz) | RU      | RU Pos | Maximum PSD (dBm/MHz) |        |       |         | Verdict |
|-------------------|---------|-----------------|---------|--------|-----------------------|--------|-------|---------|---------|
|                   |         |                 |         |        | ANT1                  | ANT2   | MIMO  | Limit   |         |
| 802.11a           | SISO    | 5720-UNII 2C    | /       | /      | 2.95                  | 2.71   | /     | <=7.58  | Pass    |
|                   |         | 5720-UNII 3     | /       | /      | -2.58                 | -3.24  | /     | <=27.22 | Pass    |
| 802.11n (HT20)    | MIMO    | 5720-UNII 2C    | /       | /      | 3.52                  | 3.21   | 6.21  | <=7.58  | Pass    |
|                   |         | 5720-UNII 3     | /       | /      | -3.14                 | -3.13  | -0.30 | <=27.22 | Pass    |
| 802.11n (HT40)    | MIMO    | 5710-UNII 2C    | /       | /      | 0.25                  | -0.10  | 2.83  | <=7.58  | Pass    |
|                   |         | 5710-UNII 3     | /       | /      | -7.73                 | -7.37  | -4.66 | <=27.22 | Pass    |
| 802.11ac (VHT20)  | MIMO    | 5720-UNII 2C    | /       | /      | 3.58                  | 3.41   | 6.30  | <=7.58  | Pass    |
|                   |         | 5720-UNII 3     | /       | /      | -3.17                 | -2.81  | -0.11 | <=27.22 | Pass    |
| 802.11ac (VHT40)  | MIMO    | 5710-UNII 2C    | /       | /      | 0.68                  | 0.79   | 3.48  | <=7.58  | Pass    |
|                   |         | 5710-UNII 3     | /       | /      | -6.91                 | -6.60  | -3.85 | <=27.22 | Pass    |
| 802.11ac (VHT80)  | MIMO    | 5690-UNII 2C    | /       | /      | -2.02                 | -1.90  | 0.67  | <=7.58  | Pass    |
|                   |         | 5690-UNII 3     | /       | /      | -11.89                | -11.84 | -8.90 | <=27.22 | Pass    |
| 802.11ac (VHT160) | MIMO    | 5250-UNII 1     | /       | /      | -5.40                 | -5.32  | -2.54 | <=7.58  | Pass    |
|                   |         | 5250-UNII 2A    | /       | /      | -5.82                 | -5.37  | -2.67 | <=7.58  | Pass    |
| 802.11ax (HEW20)  | MIMO    | 5720-UNII 2C    | RU242   | Left   | 3.52                  | 3.43   | 6.31  | <=7.58  | Pass    |
|                   |         | 5720-UNII 3     | RU242   | Left   | -3.36                 | -2.85  | -0.25 | <=27.22 | Pass    |
| 802.11ax (HEW40)  | MIMO    | 5710-UNII 2C    | RU484   | Left   | 0.54                  | 0.70   | 3.34  | <=7.58  | Pass    |
|                   |         | 5710-UNII 3     | RU484   | Left   | -7.40                 | -7.19  | -4.52 | <=27.22 | Pass    |
| 802.11ax (HEW80)  | MIMO    | 5690-UNII 2C    | RU996   | Left   | -1.72                 | -1.76  | 0.87  | <=7.58  | Pass    |
|                   |         | 5690-UNII 3     | RU996   | Left   | -11.99                | -11.54 | -8.98 | <=27.22 | Pass    |
| 802.11ax (HEW160) | MIMO    | 5250-UNII 1     | 2xRU996 | Left   | -5.63                 | -5.04  | -2.38 | <=7.58  | Pass    |
|                   |         | 5250-UNII 2A    | 2xRU996 | Left   | -5.65                 | -5.29  | -2.52 | <=7.58  | Pass    |

Note: only the worst test plots are displayed.



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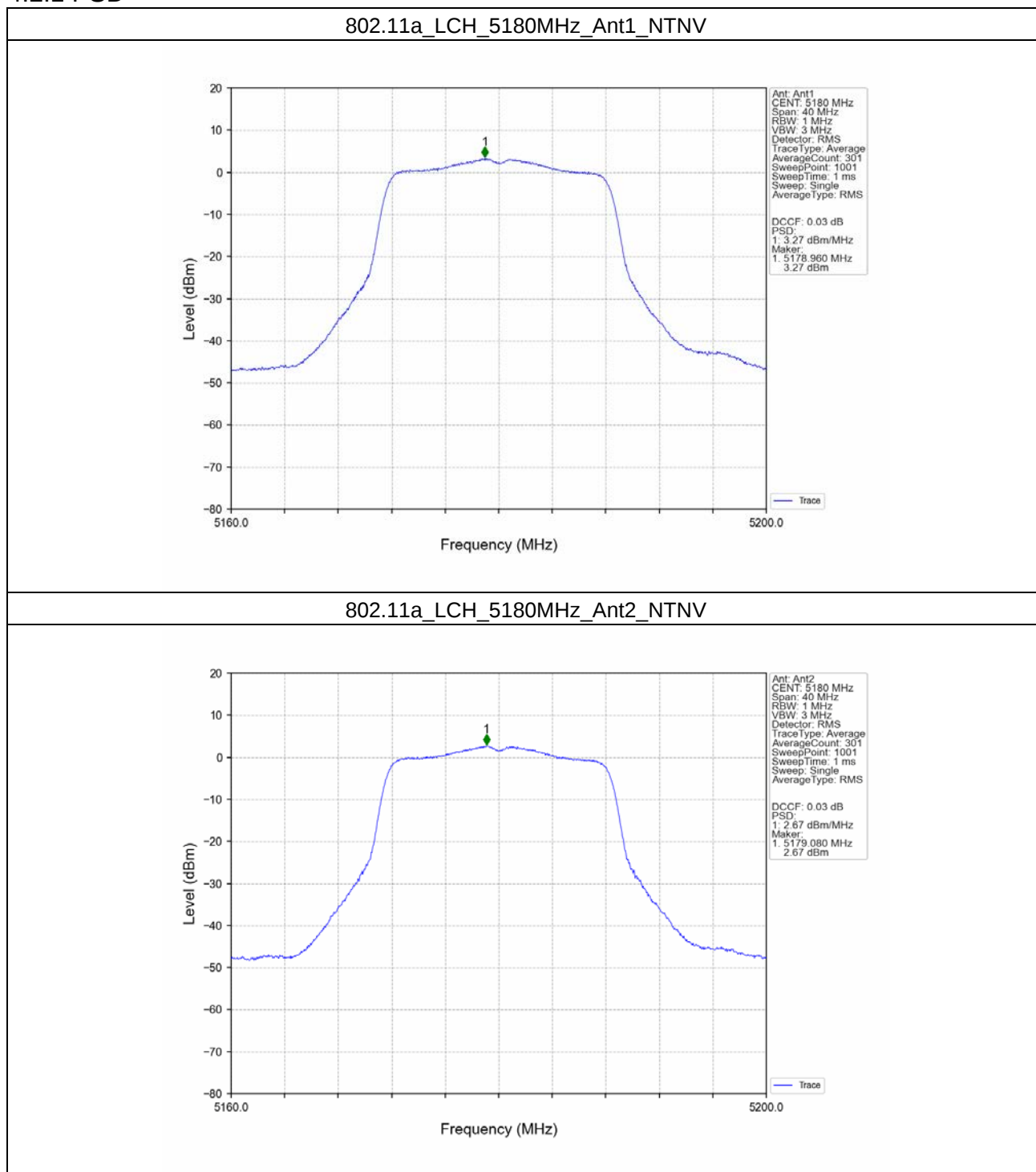
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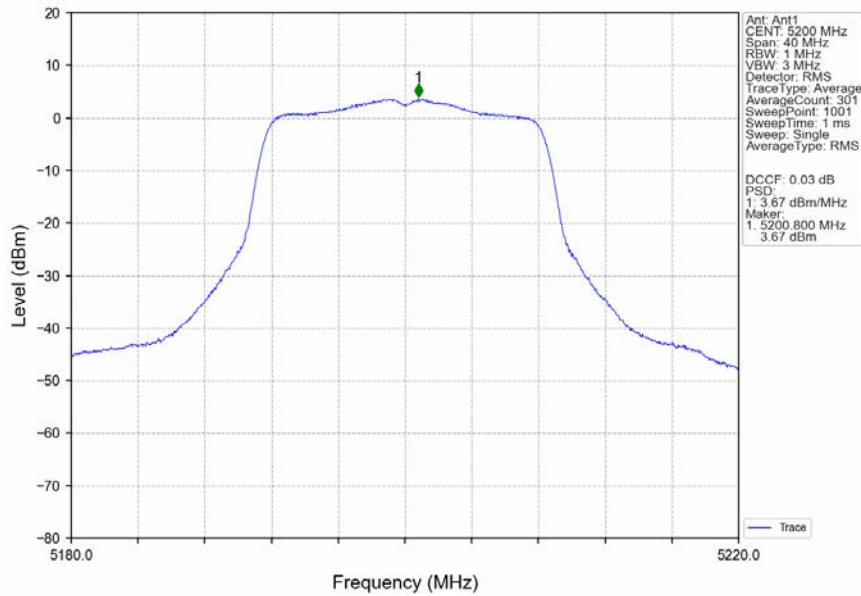
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### 4.2 Test Graph

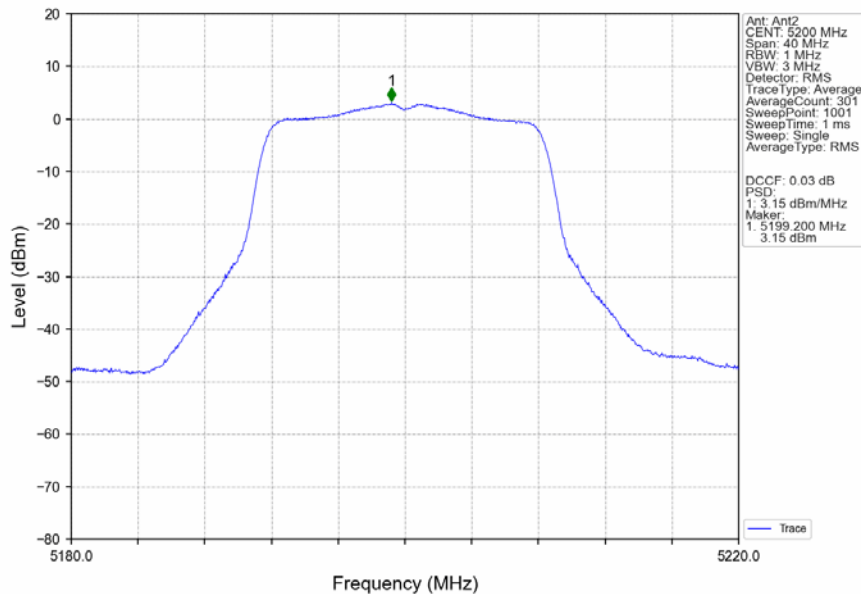
#### 4.2.1 PSD



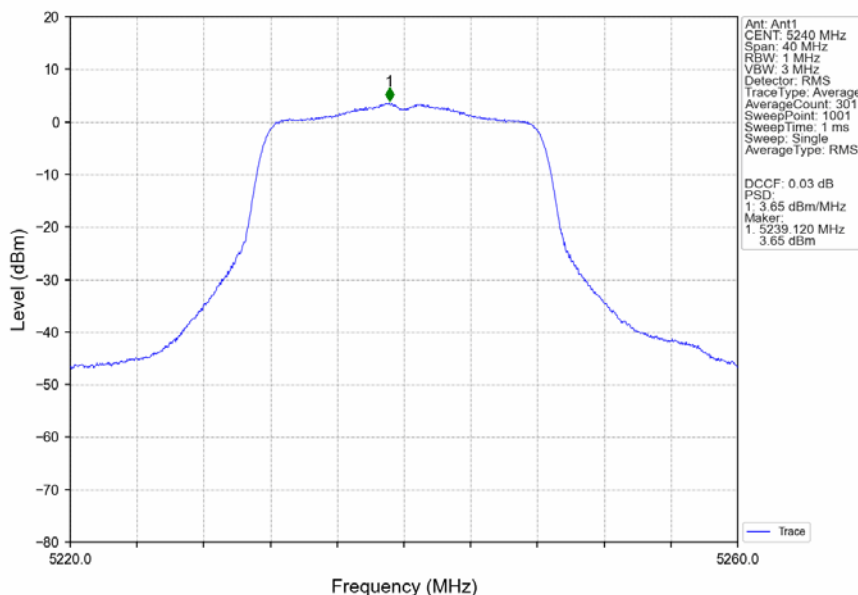
802.11a\_MCH\_5200MHz\_Ant1\_NTNV



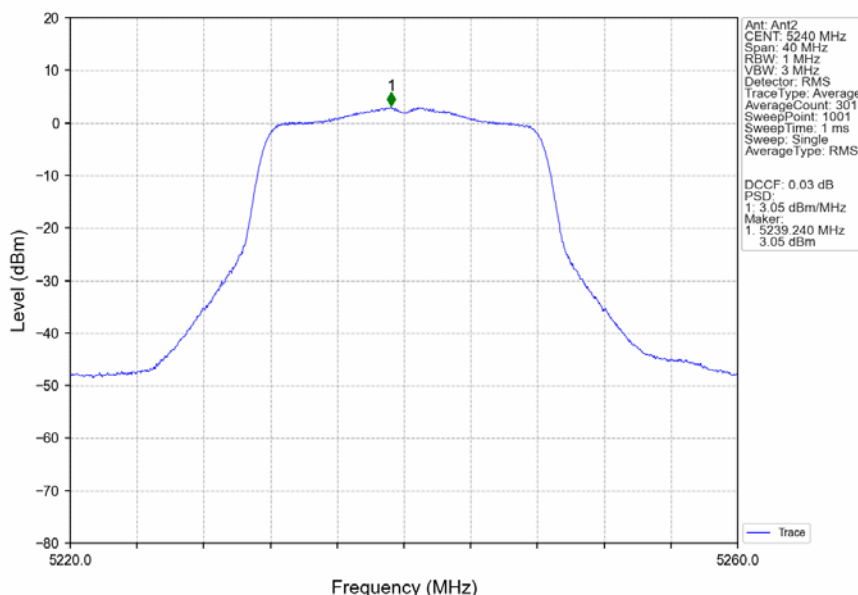
802.11a\_MCH\_5200MHz\_Ant2\_NTNV



802.11a\_HCH\_5240MHz\_Ant1\_NTNV



802.11a\_HCH\_5240MHz\_Ant2\_NTNV



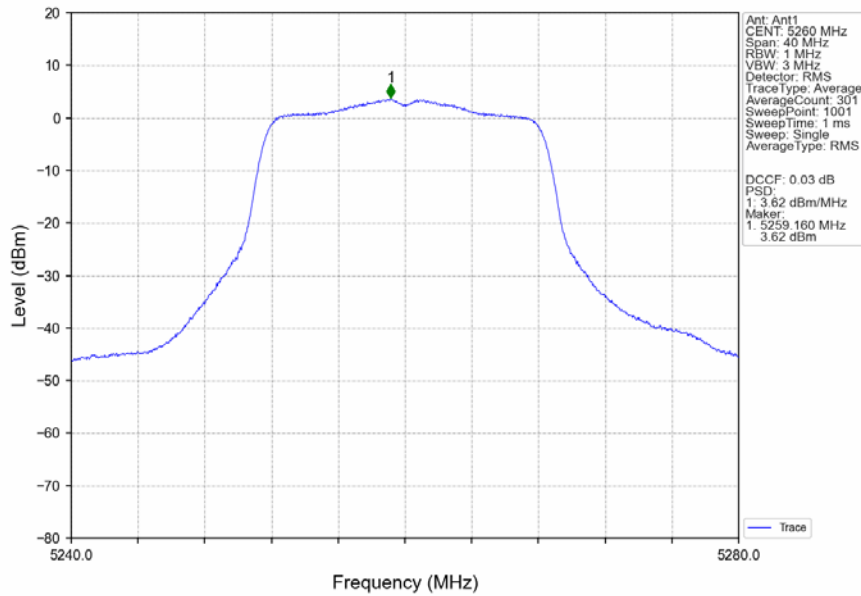
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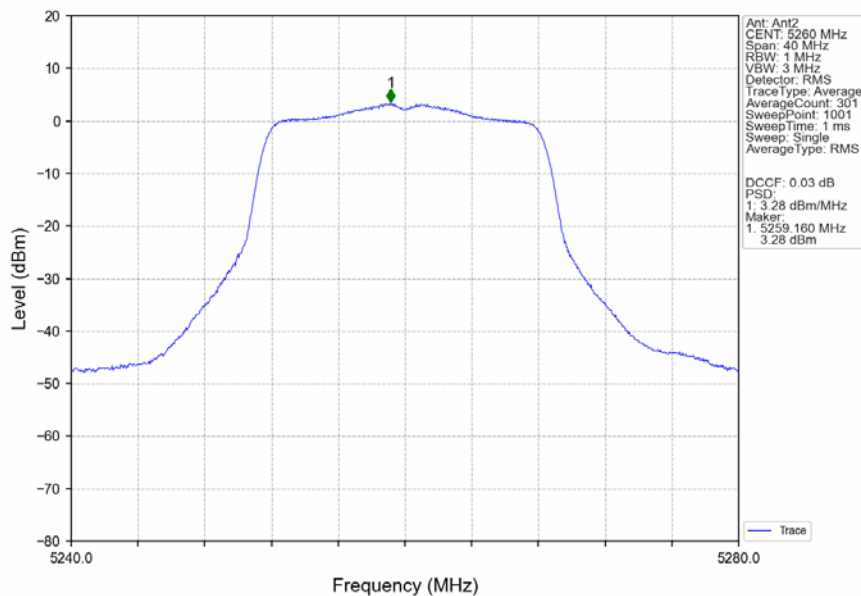
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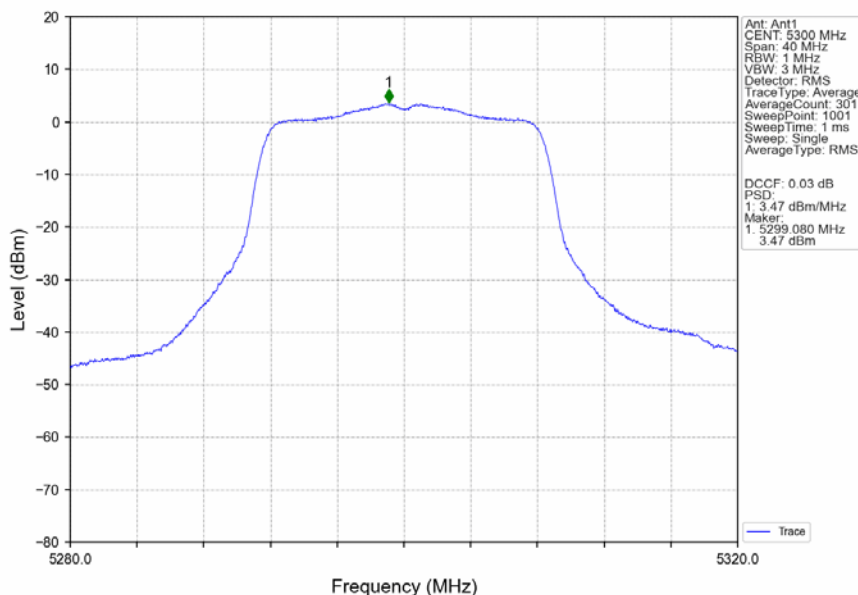
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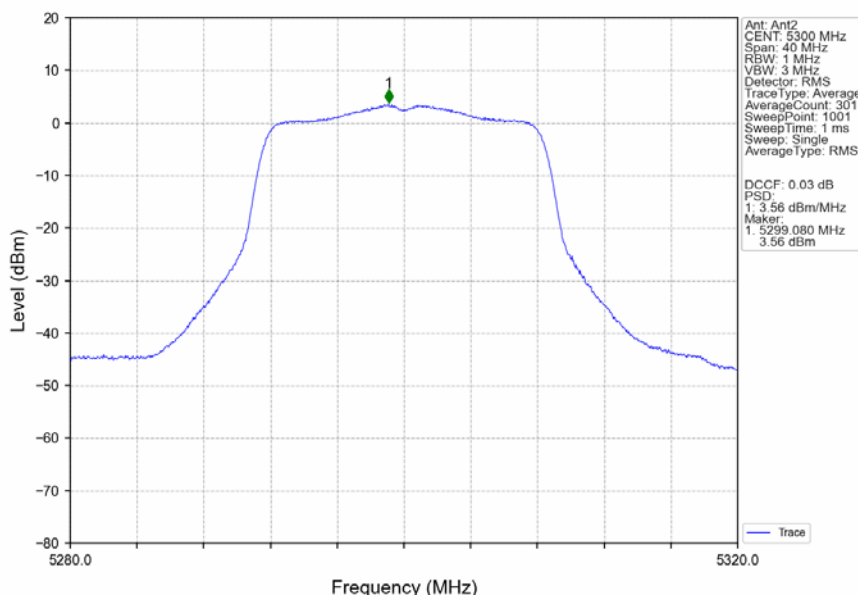
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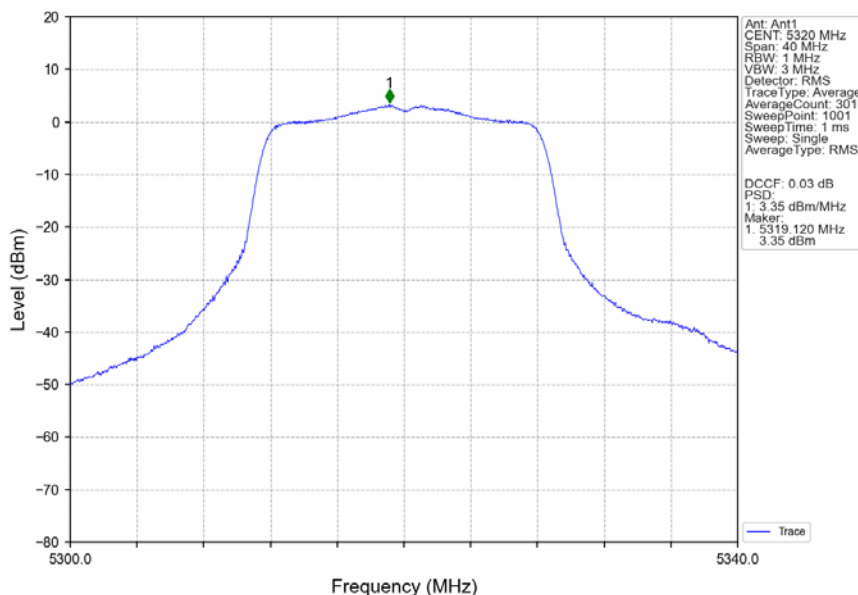
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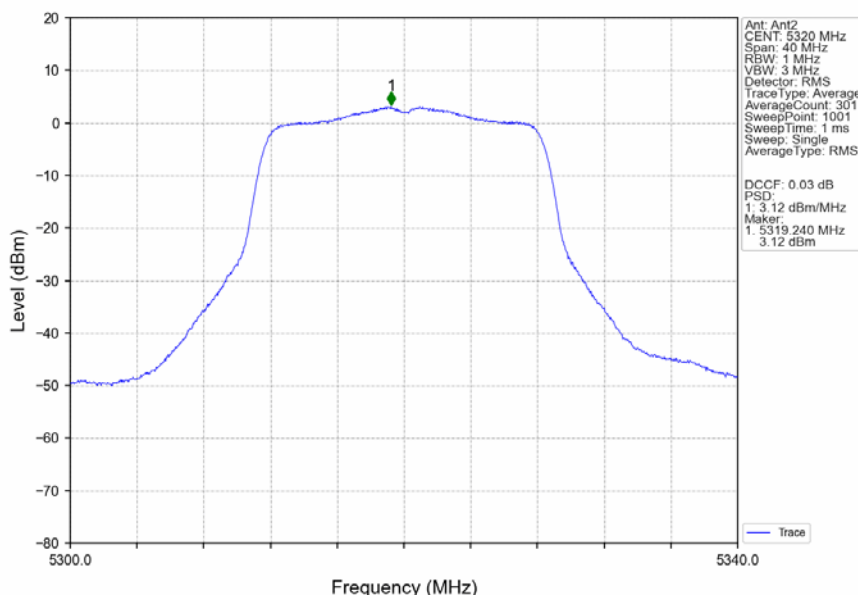
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802.11a\_HCH\_5320MHz\_Ant1\_NTNV



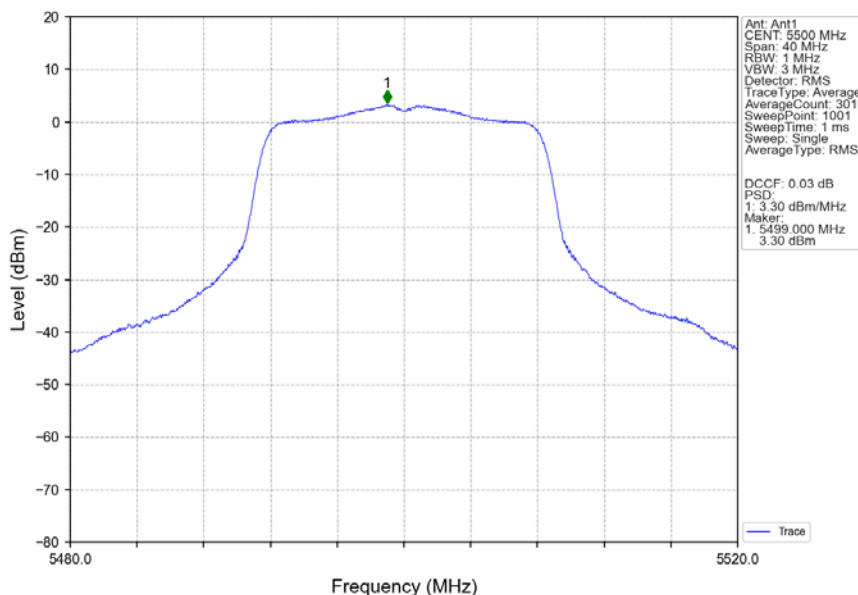
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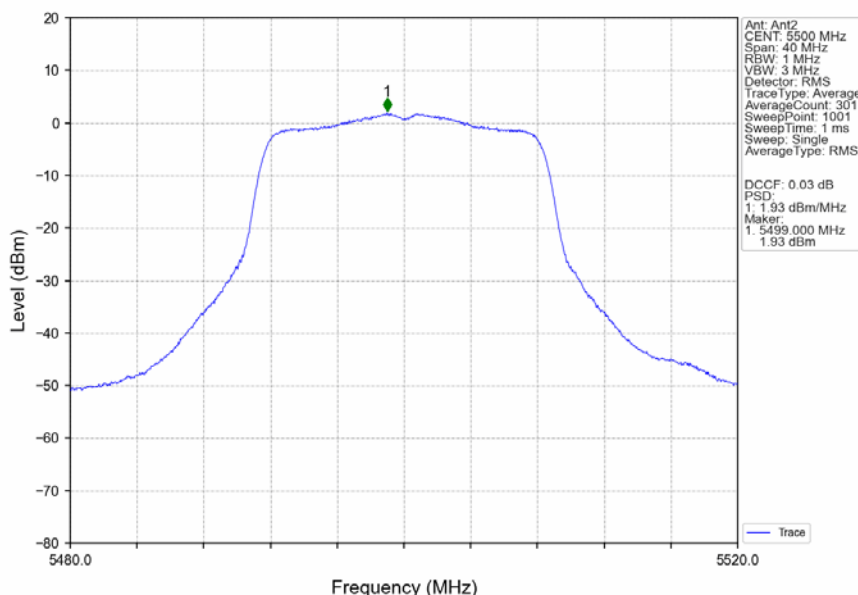
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802.11a\_LCH\_5500MHz\_Ant1\_NTNV



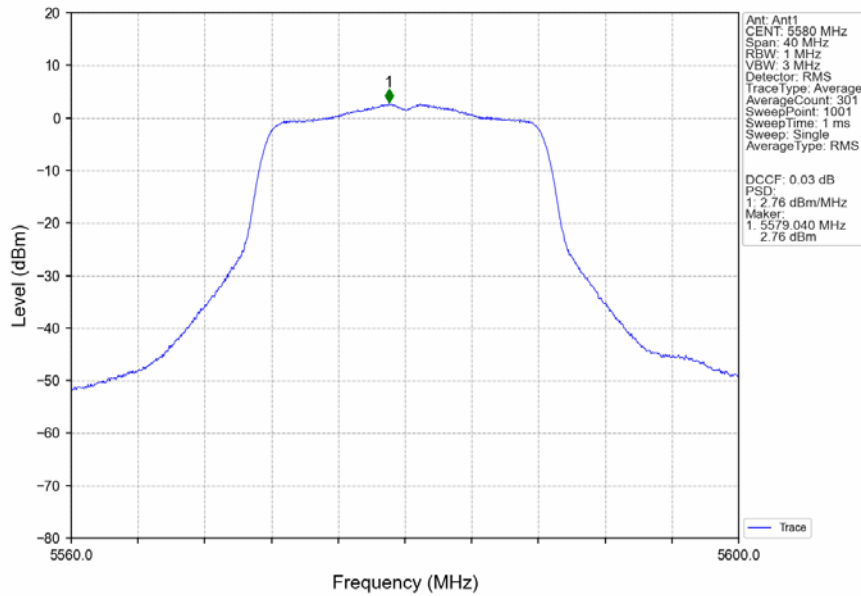
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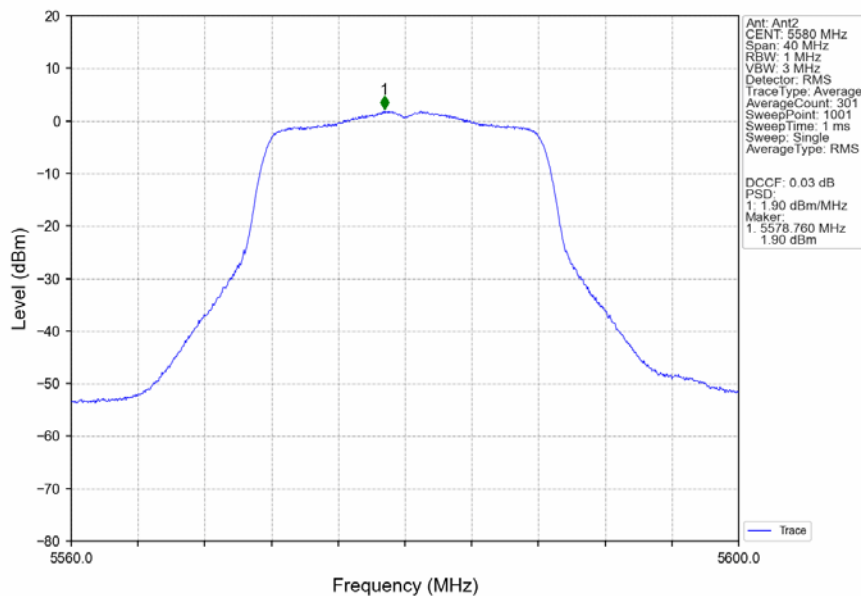
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802.11a\_MCH\_5580MHz\_Ant1\_NTNV



802.11a\_MCH\_5580MHz\_Ant2\_NTNV



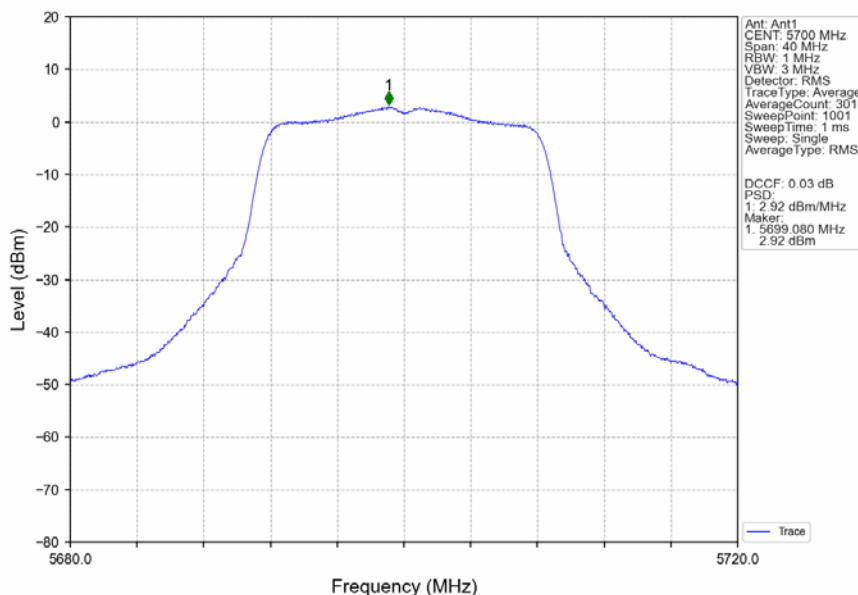
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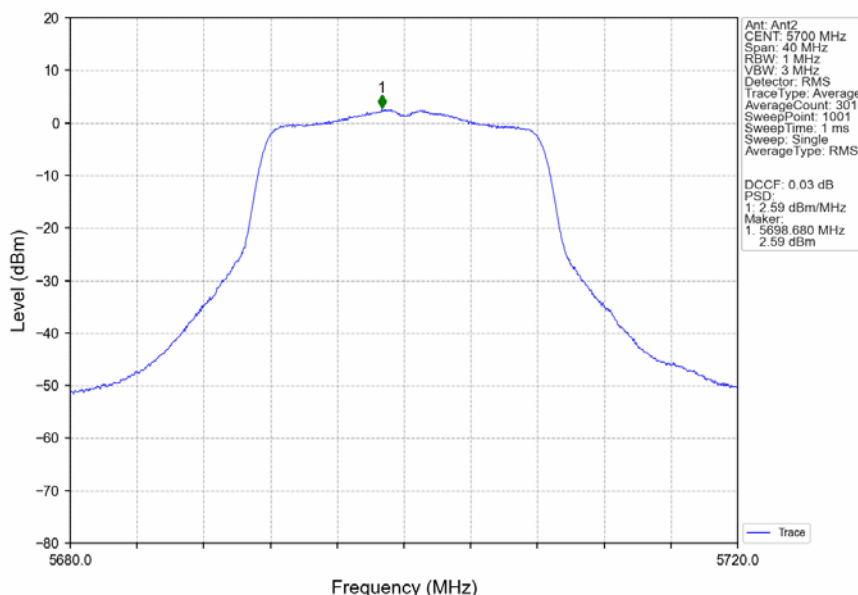
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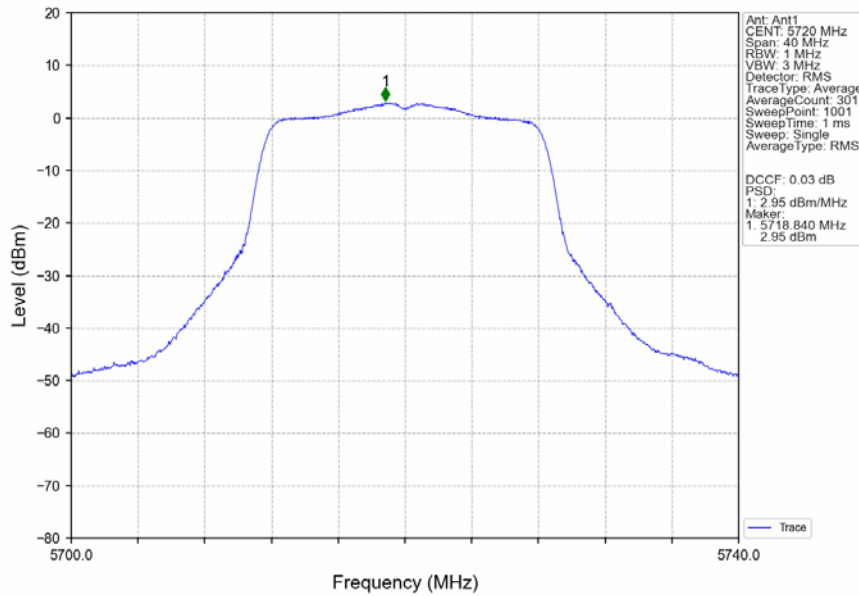
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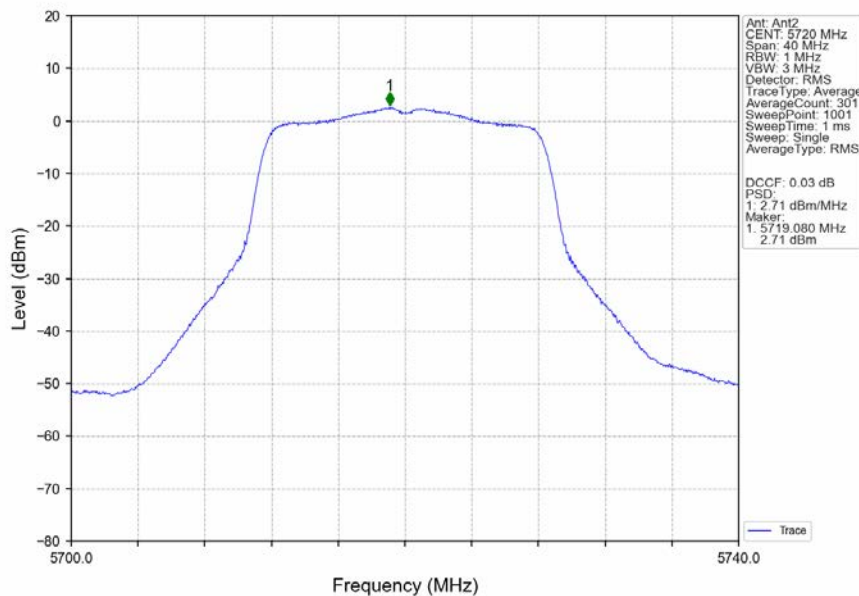
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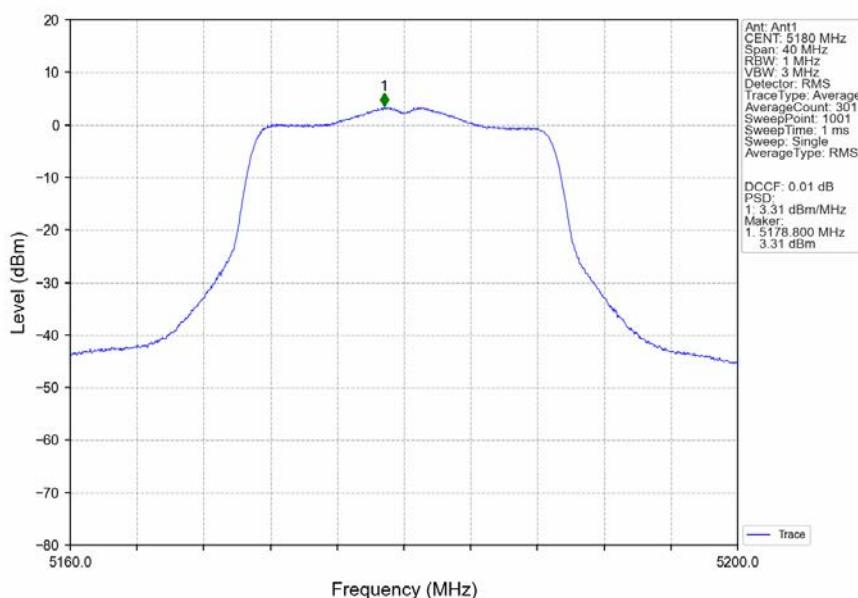
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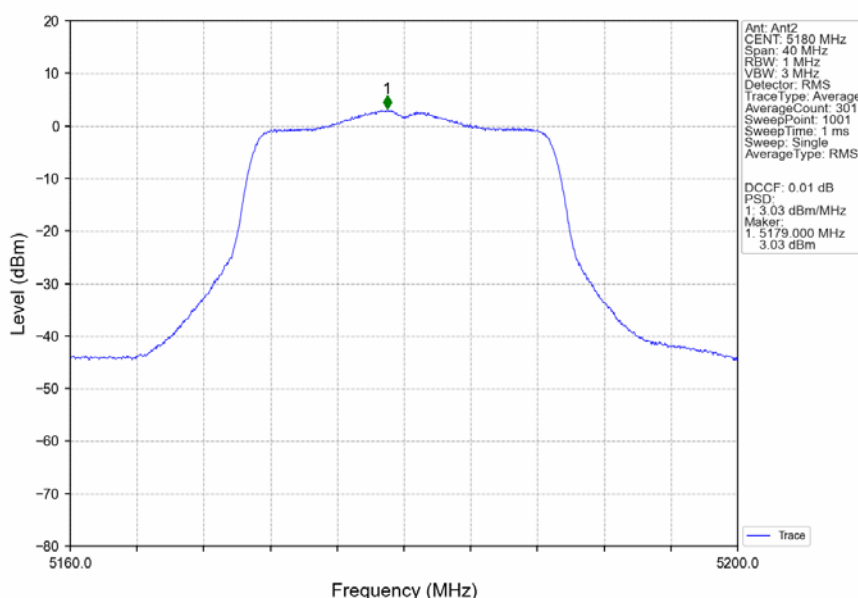
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802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5180MHz\_Ant2\_NTNV



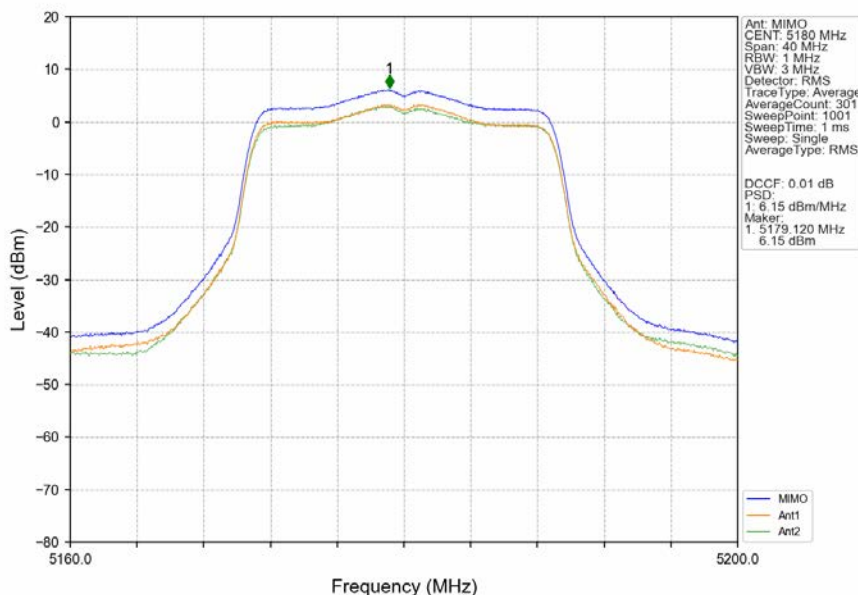
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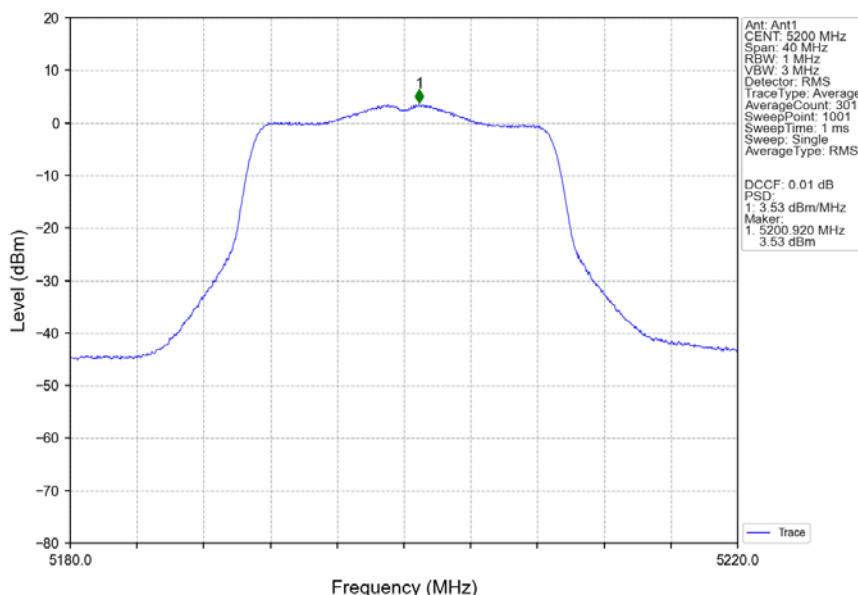
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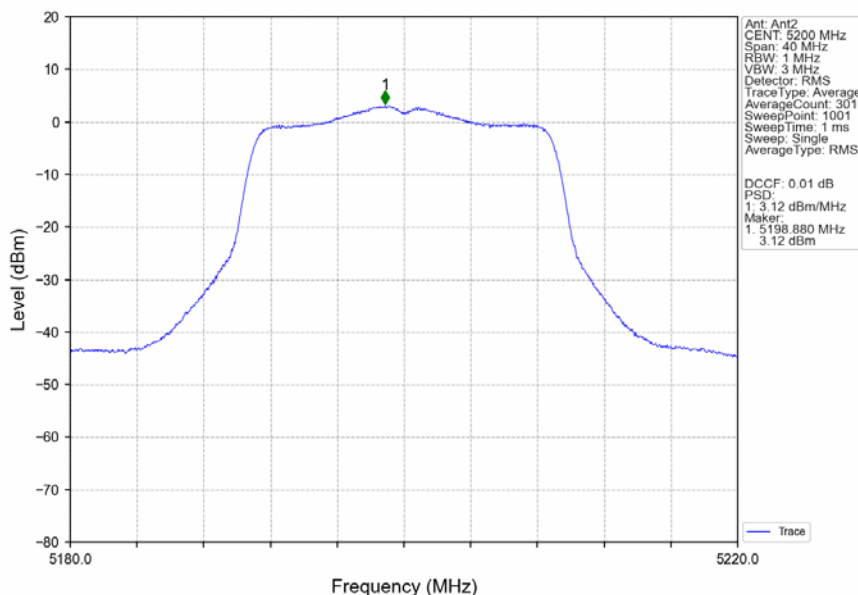
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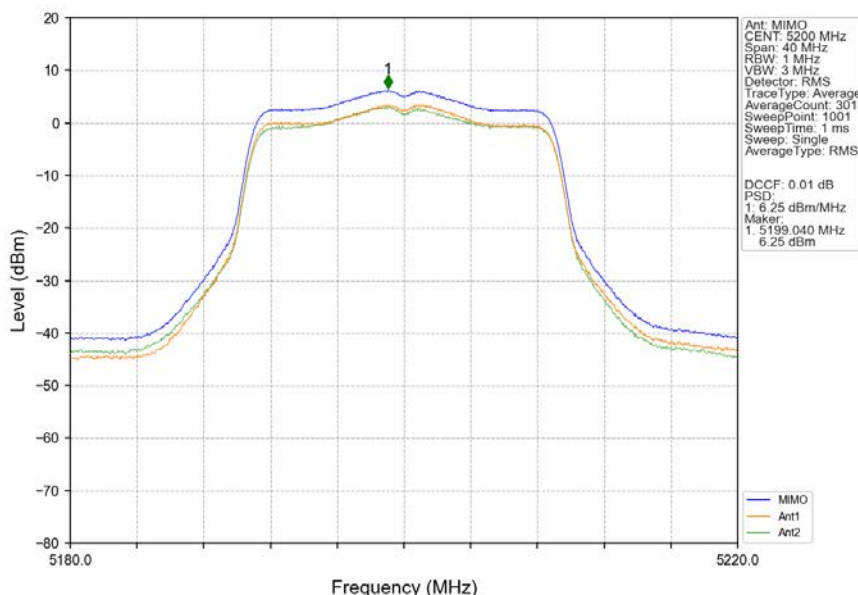
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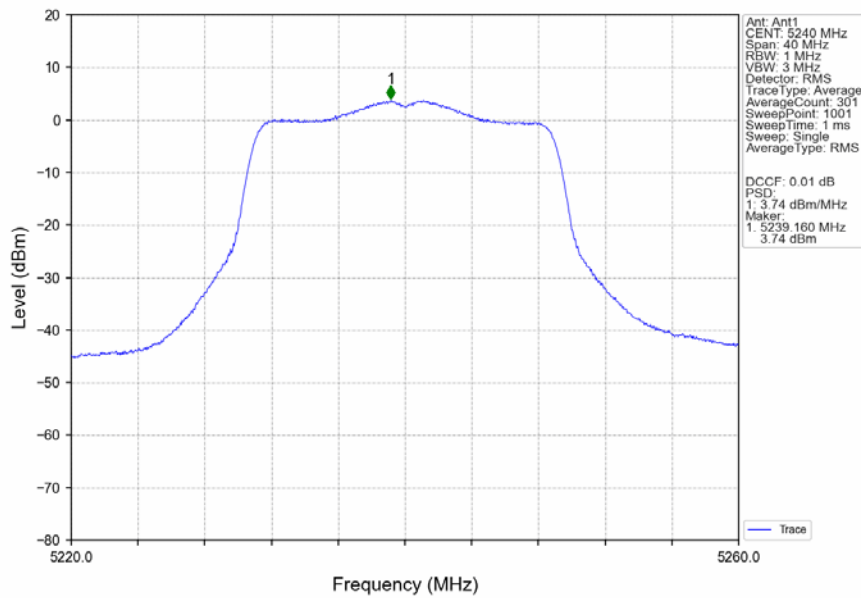
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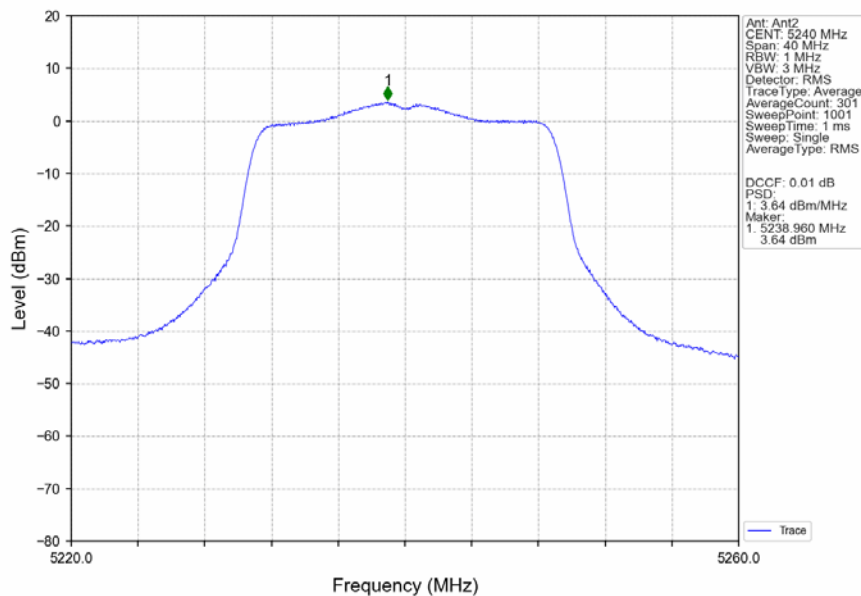
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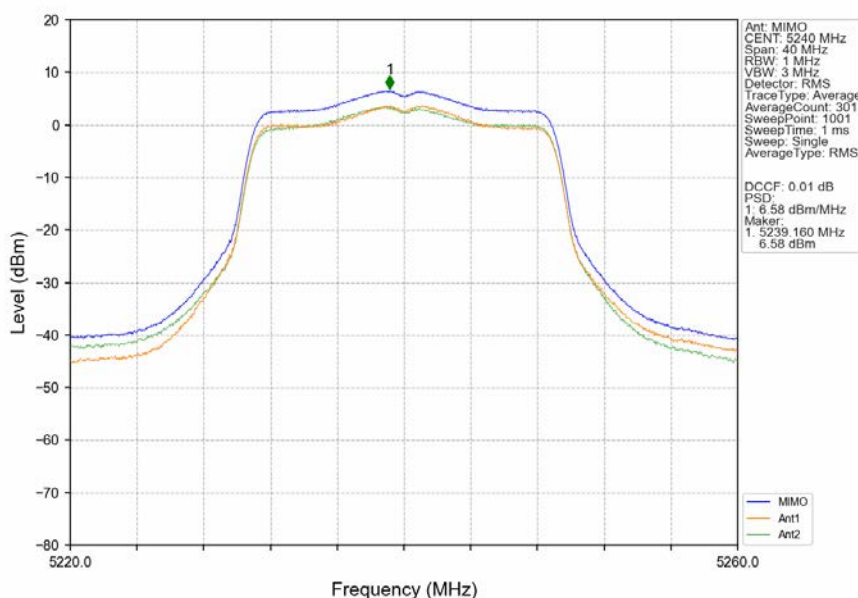
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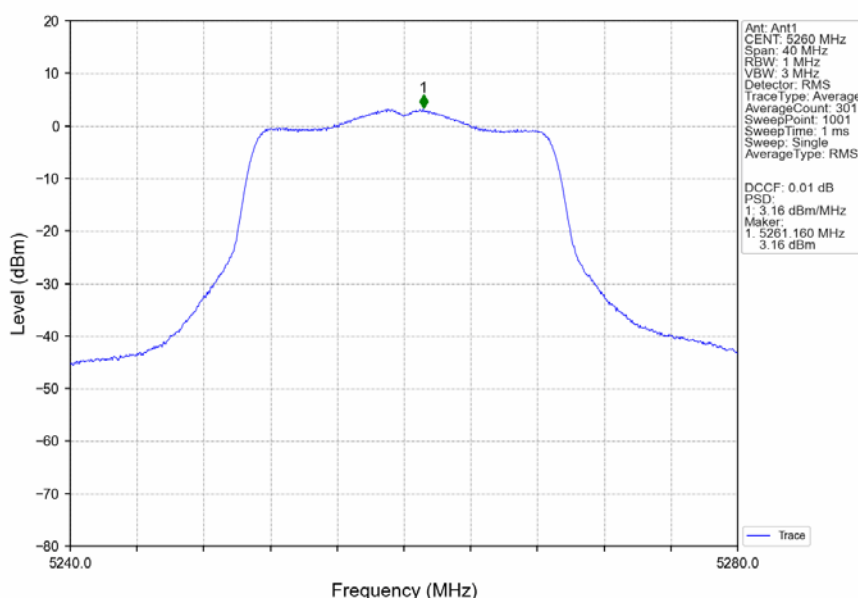
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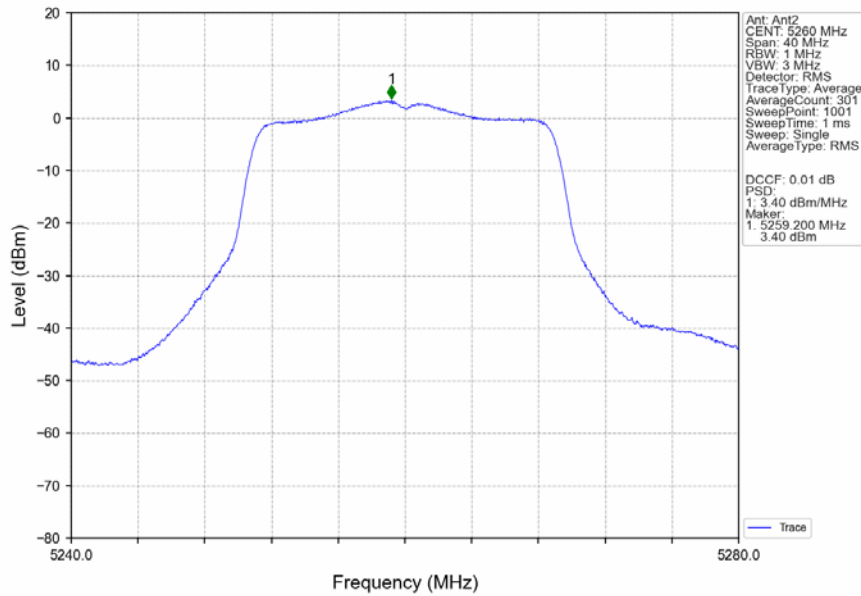
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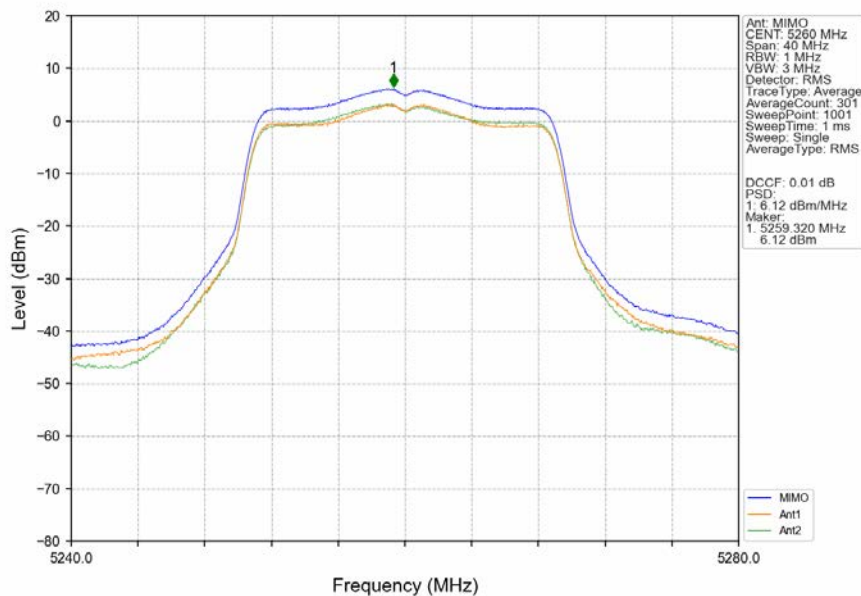
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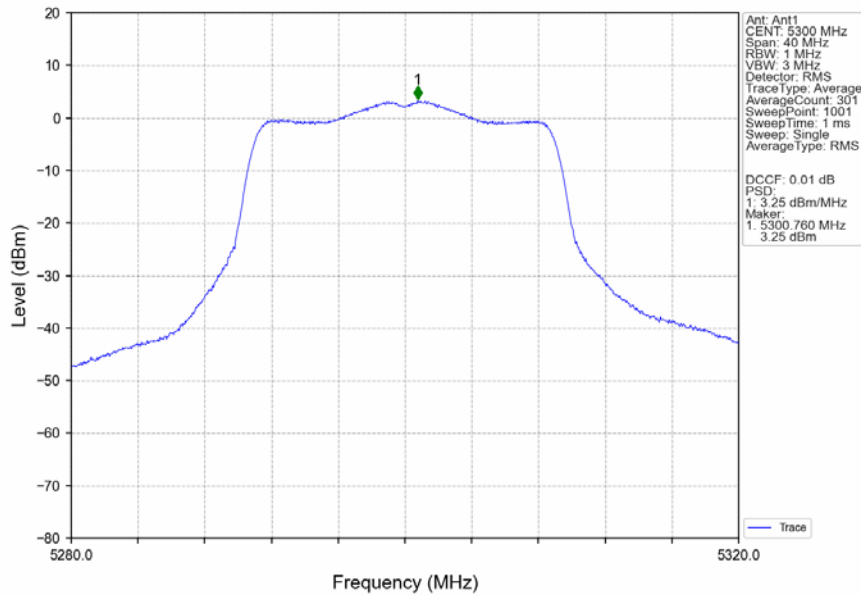
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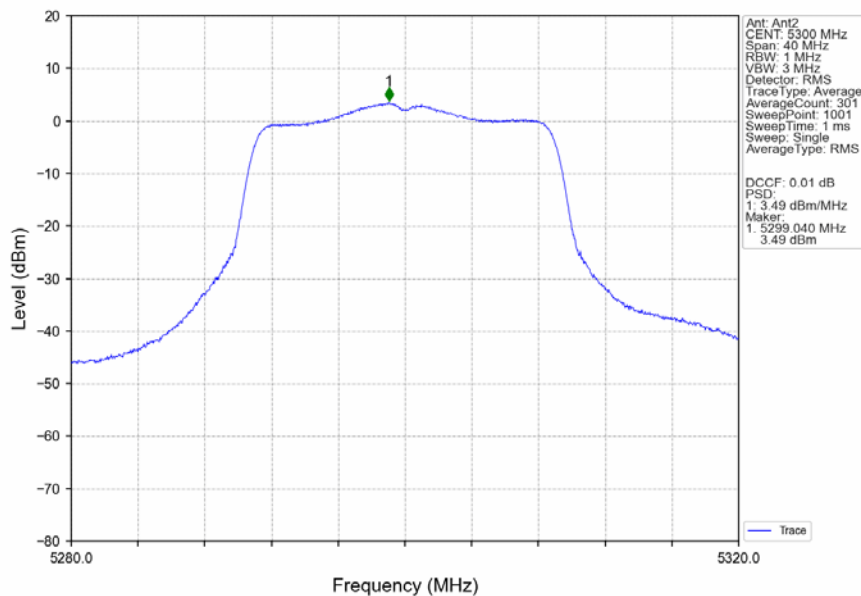
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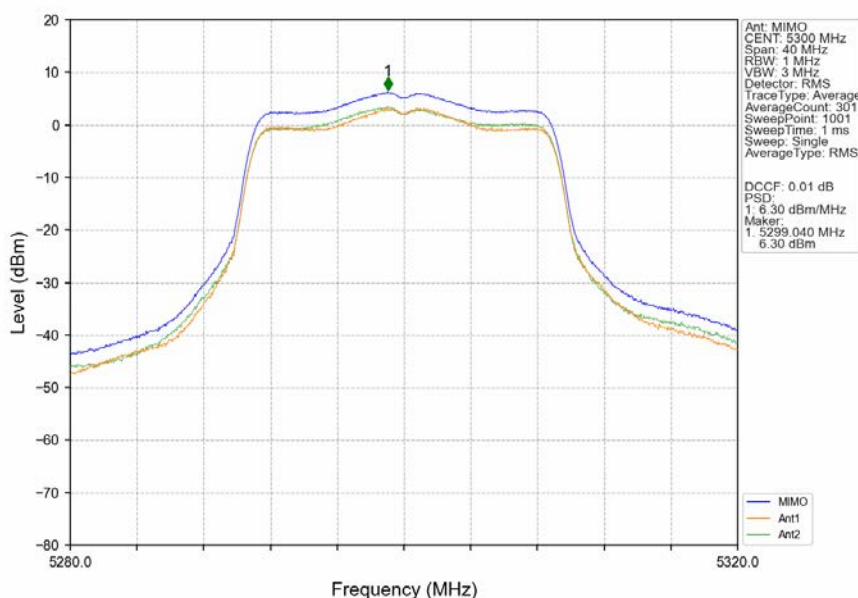
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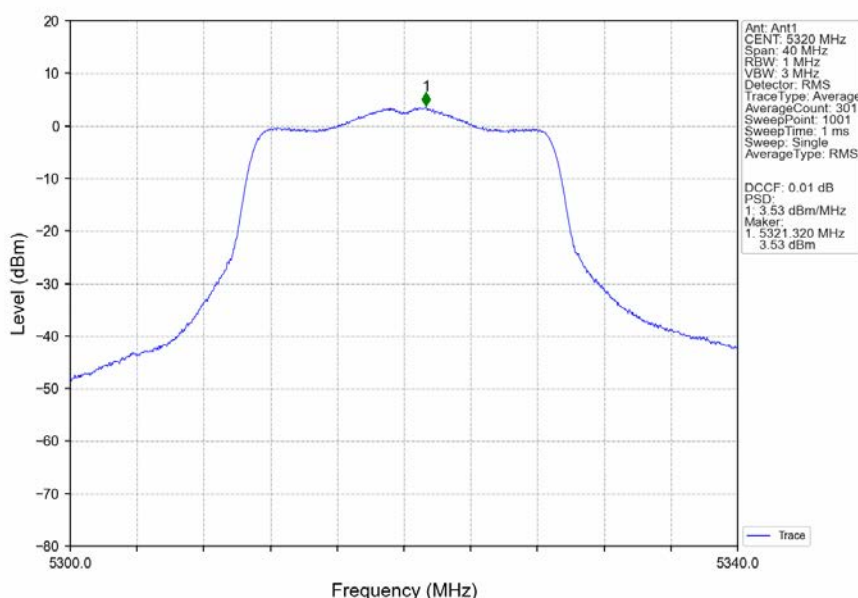
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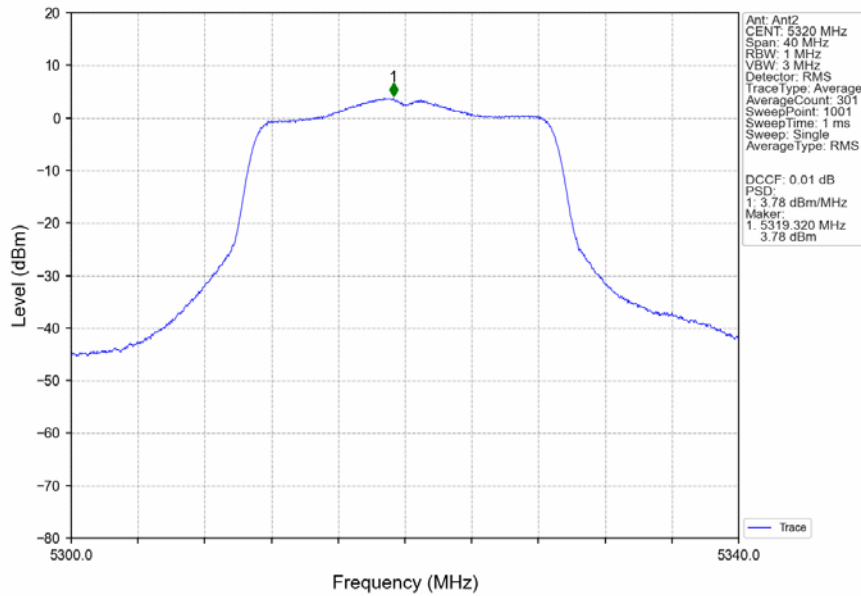
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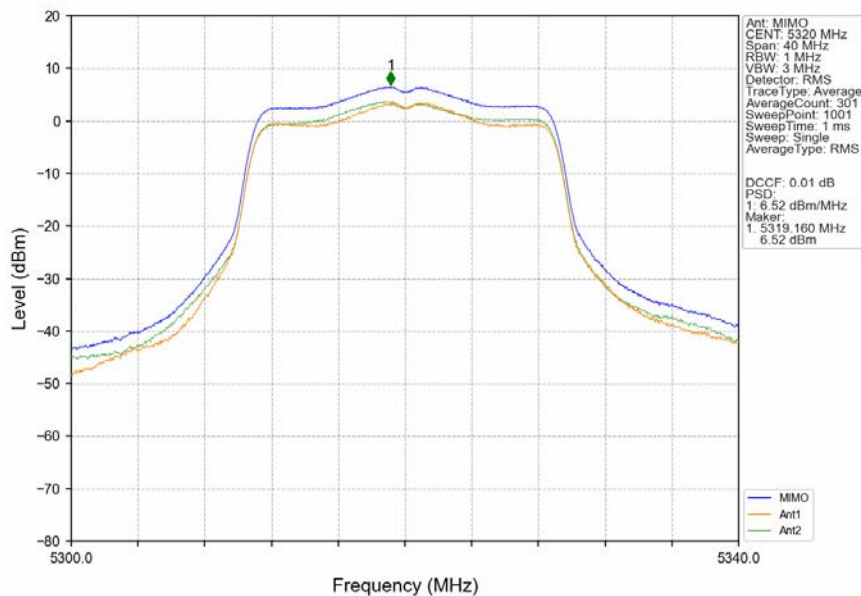
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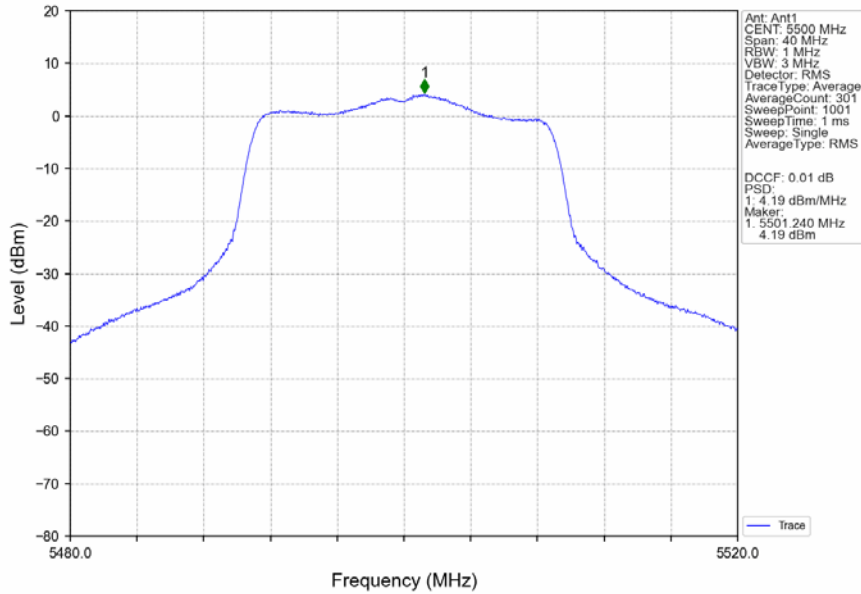
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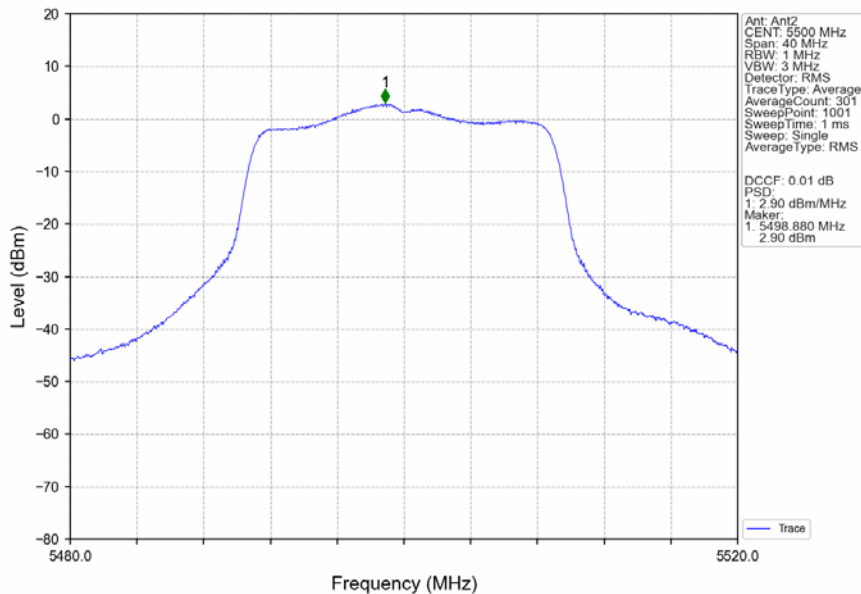
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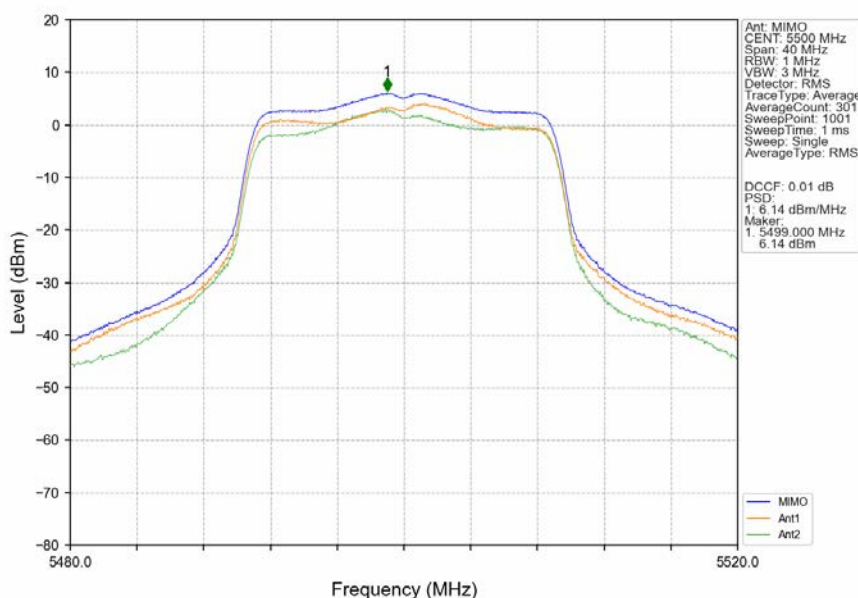
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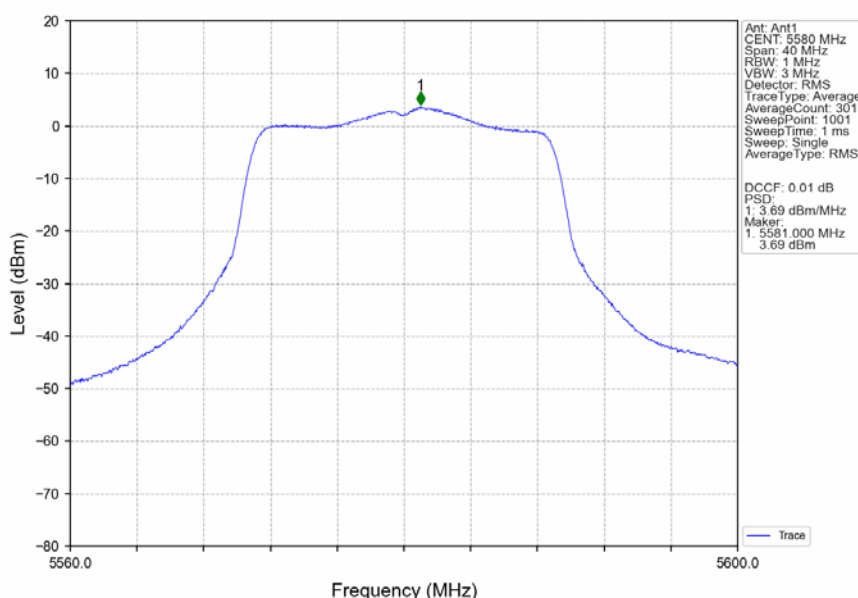
802.11n(HT20)\_LCH\_5500MHz\_Ant2\_NTNV



802.11n(HT20)\_LCH\_5500MHz\_MIMO\_NTNV



802.11n(HT20)\_MCH\_5580MHz\_Ant1\_NTNV

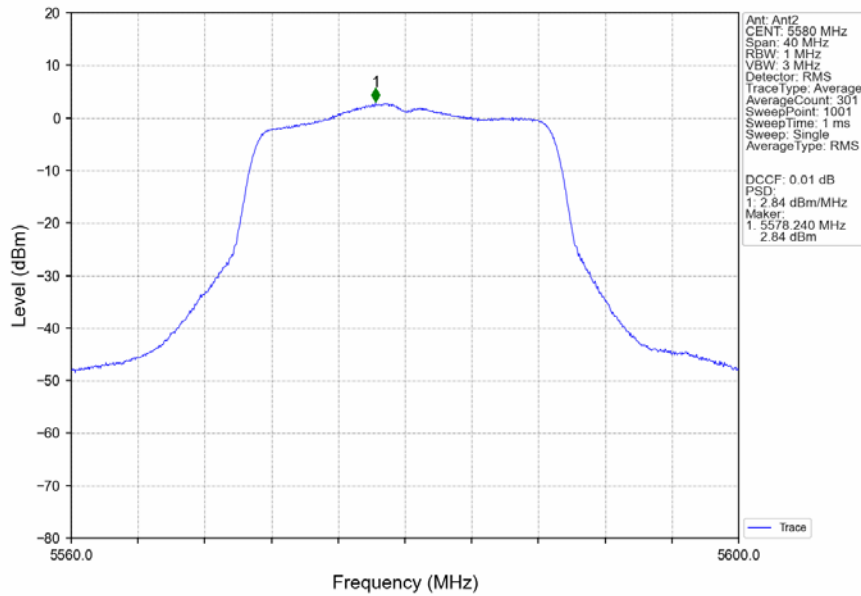


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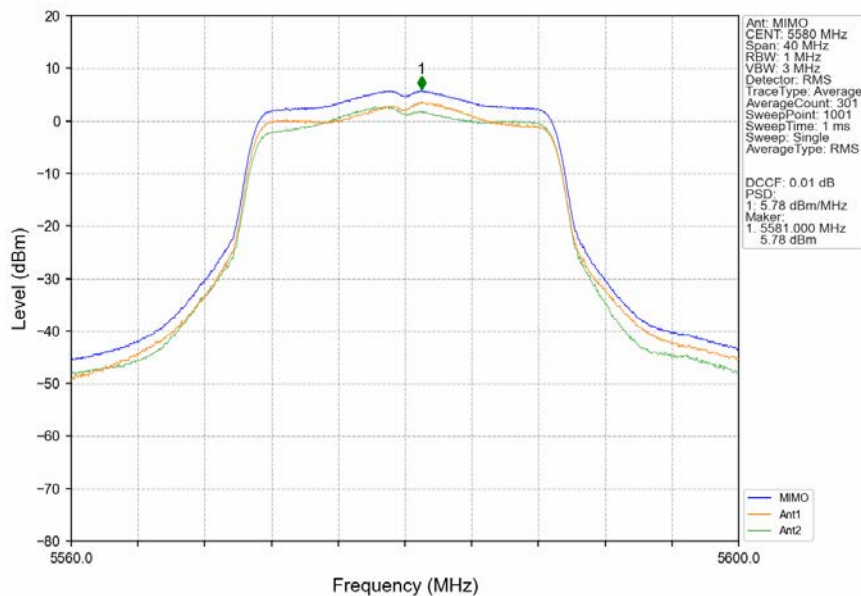
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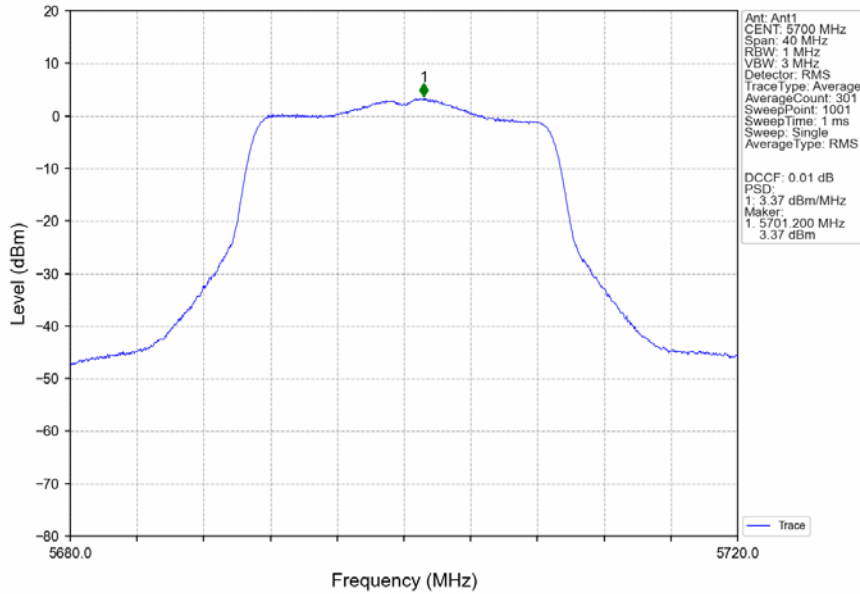
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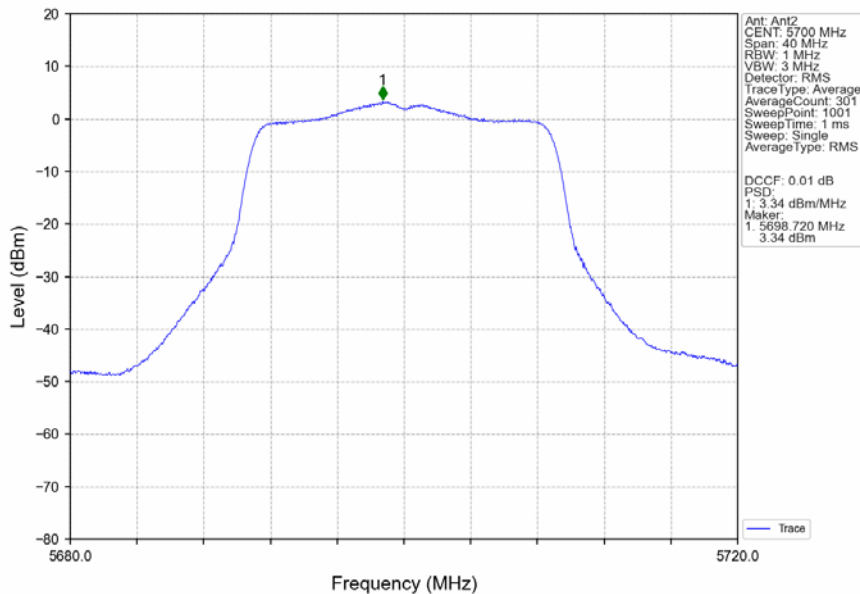
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802.11n(HT20)\_HCH\_5700MHz\_Ant1\_NTNV



802.11n(HT20)\_HCH\_5700MHz\_Ant2\_NTNV



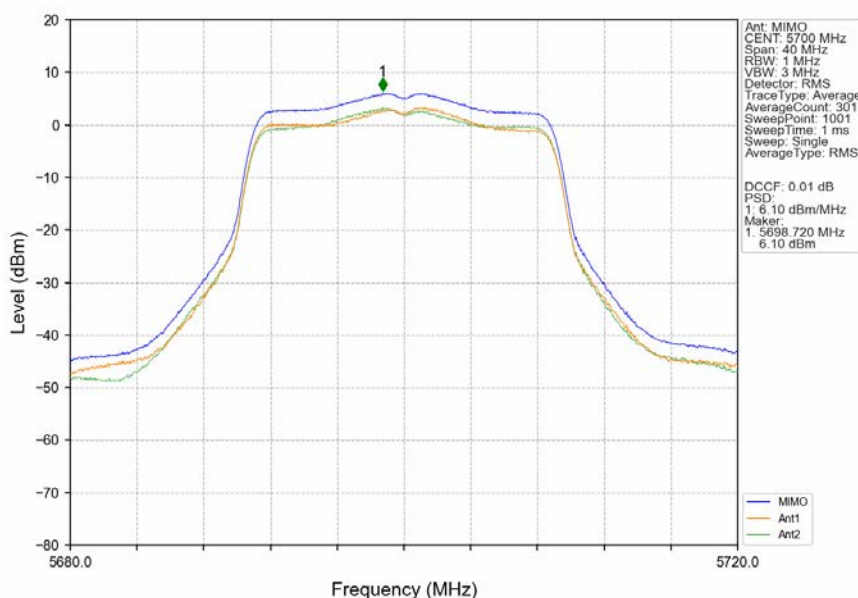
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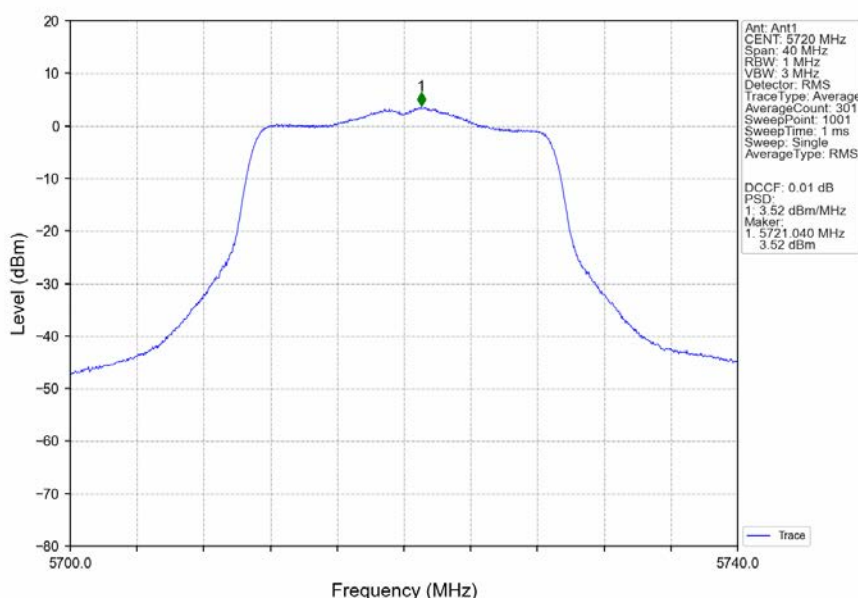
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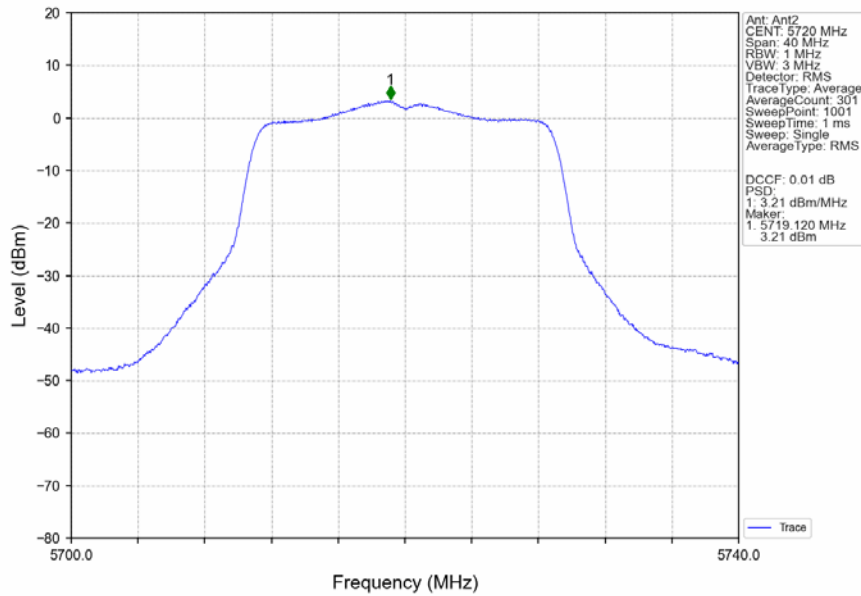
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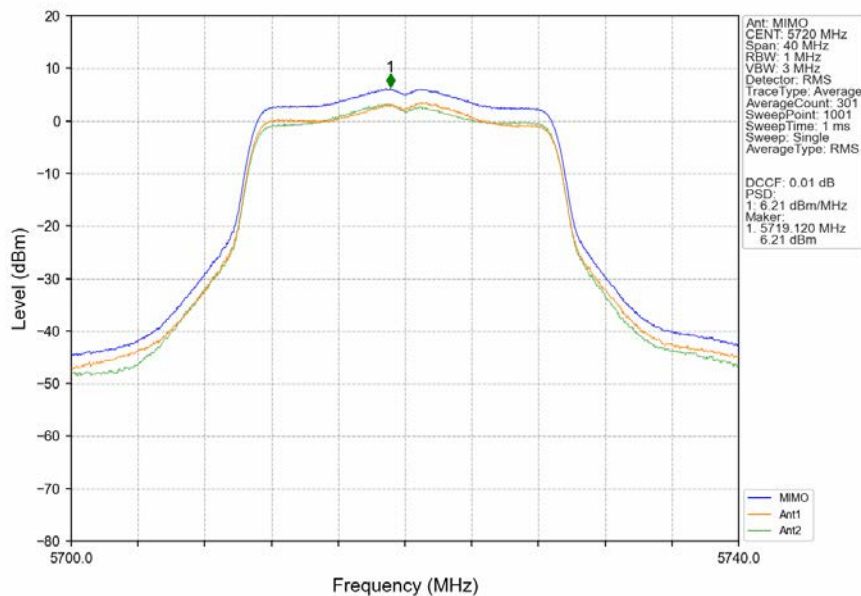
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802.11n(HT20)\_HCH\_5720MHz\_Ant2\_NTNV



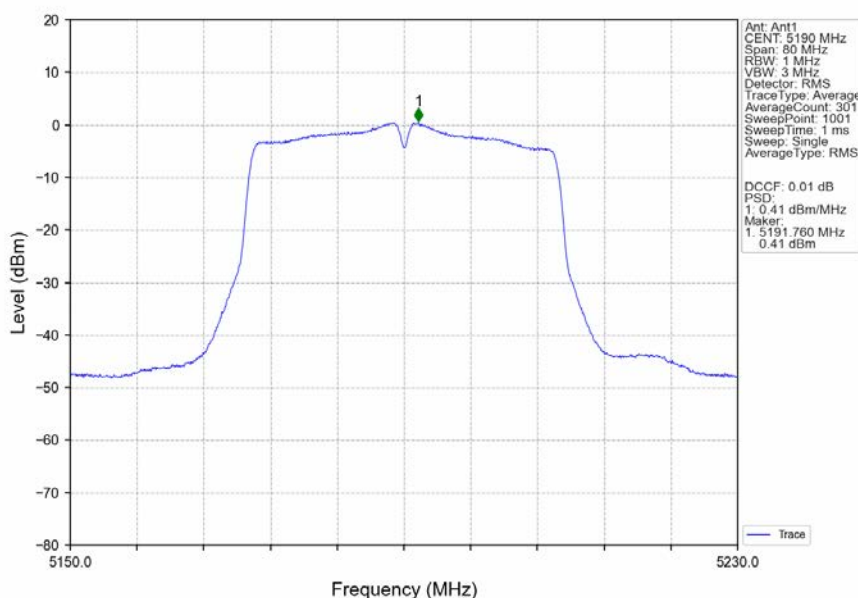
802.11n(HT20)\_HCH\_5720MHz\_MIMO\_NTNV



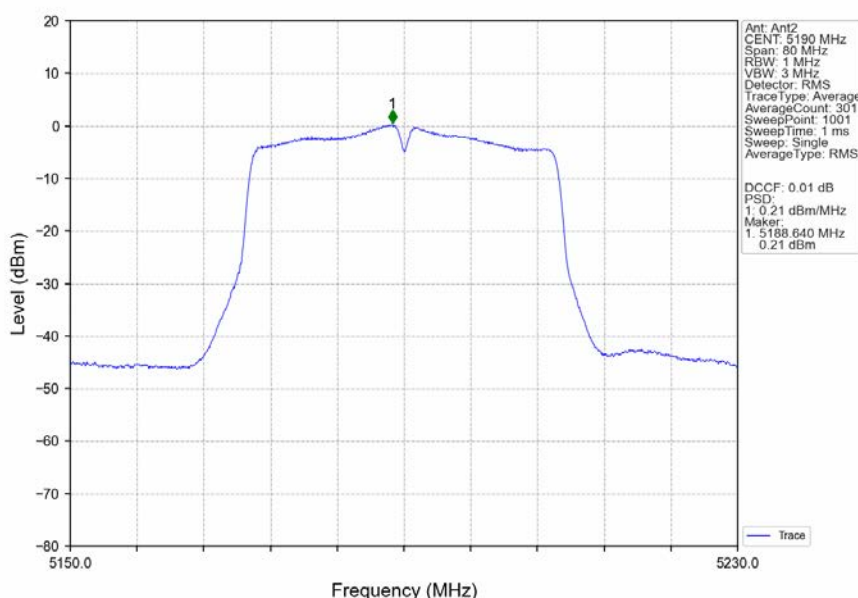
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802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5190MHz\_Ant2\_NTNV

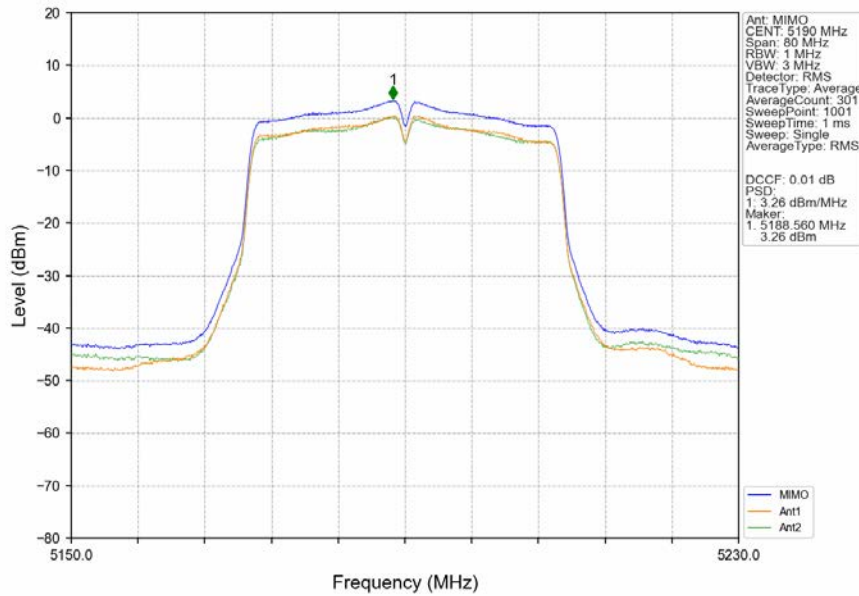


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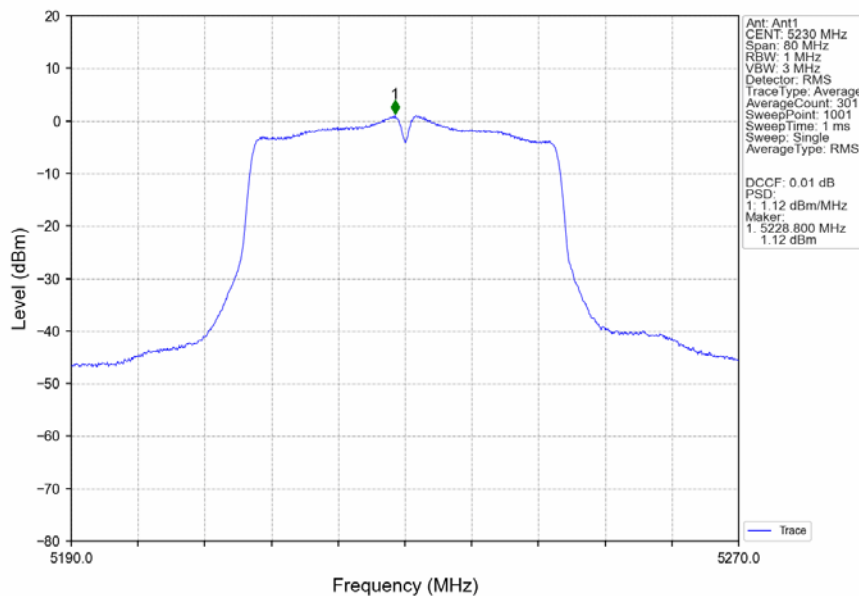
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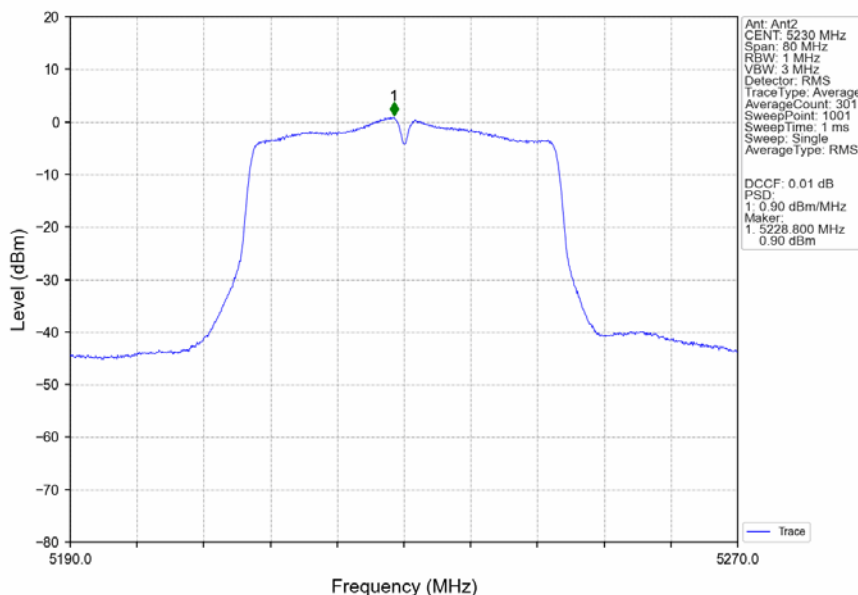
802.11n(HT40)\_LCH\_5190MHz\_MIMO\_NTNV



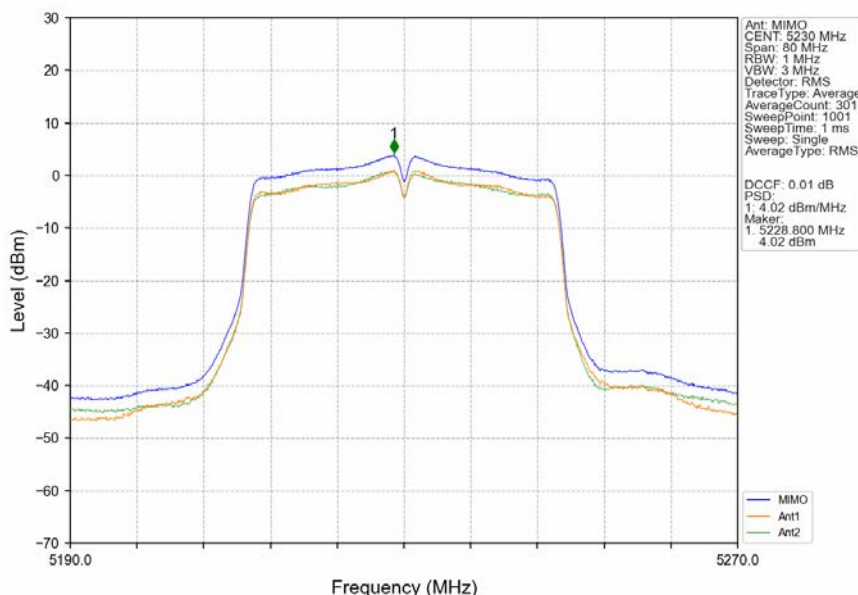
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5230MHz\_Ant2\_NTNV



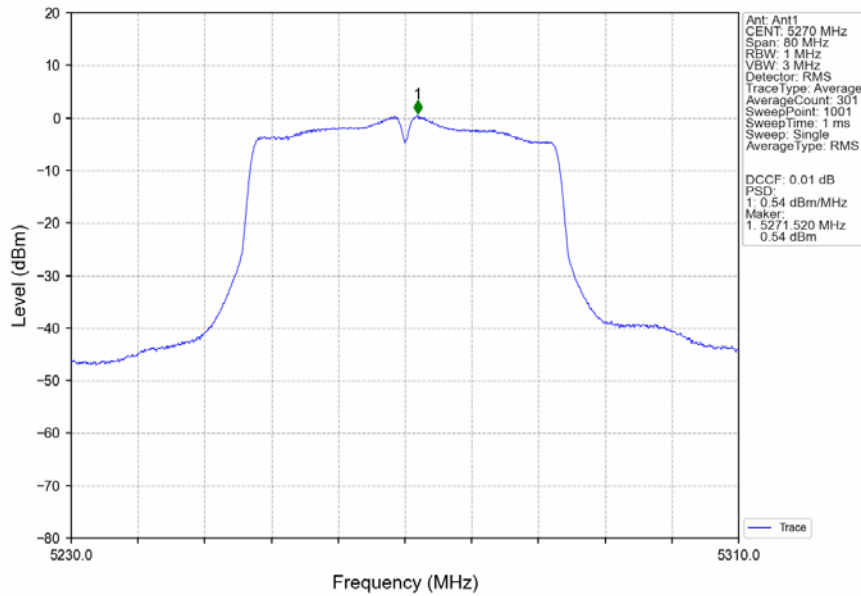
802.11n(HT40)\_HCH\_5230MHz\_MIMO\_NTNV



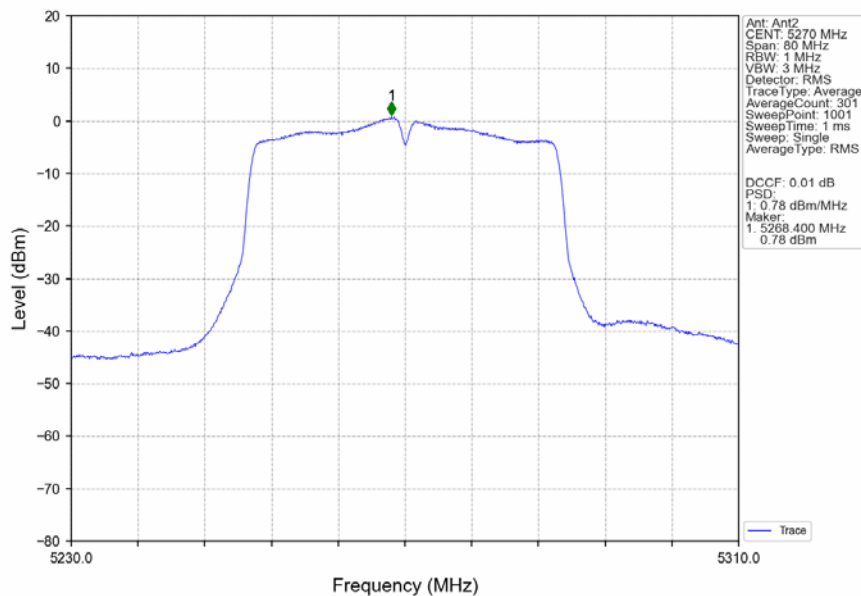
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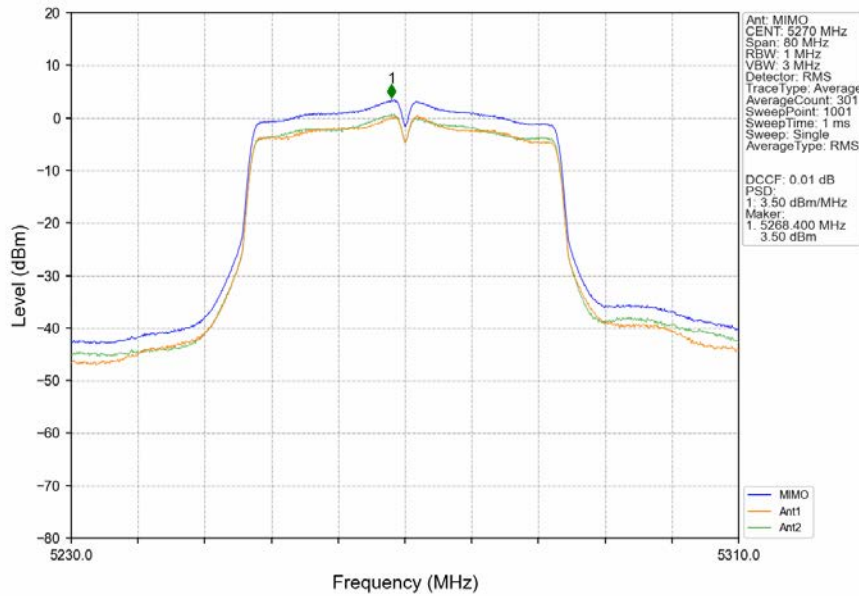
802.11n(HT40)\_LCH\_5270MHz\_Ant1\_NTNV



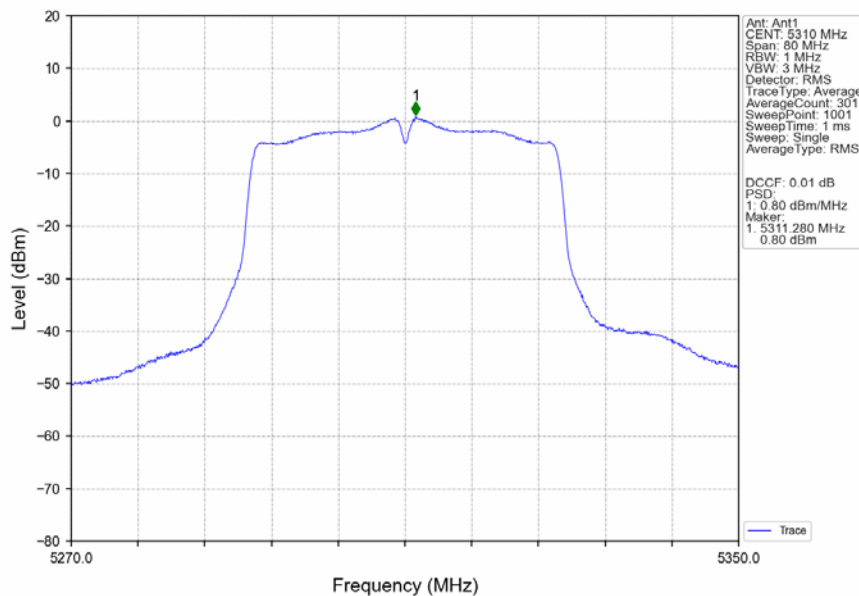
802.11n(HT40)\_LCH\_5270MHz\_Ant2\_NTNV



### 802.11n(HT40)\_LCH\_5270MHz\_MIMO\_NTNV



### 802.11n(HT40)\_HCH\_5310MHz\_Ant1\_NTNV



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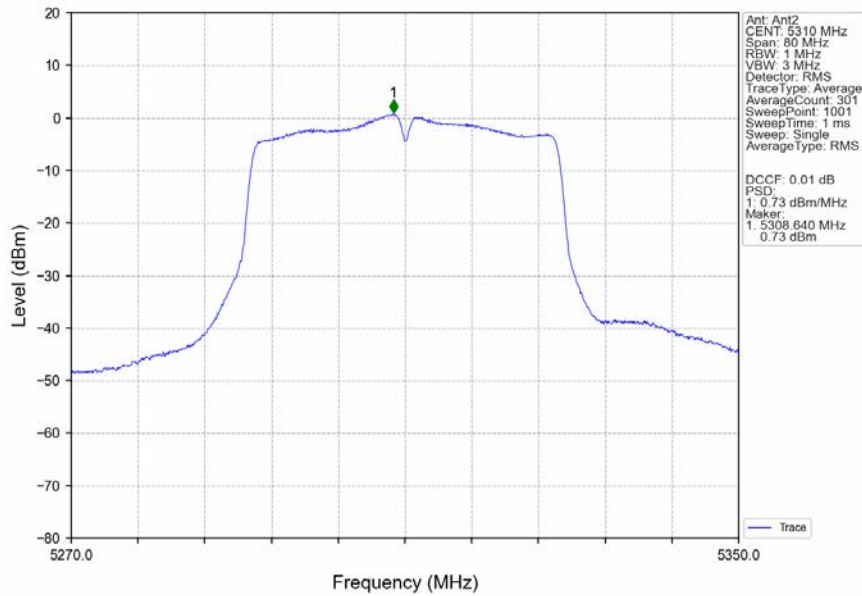
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Shenzhen Branch Calibration Laboratory

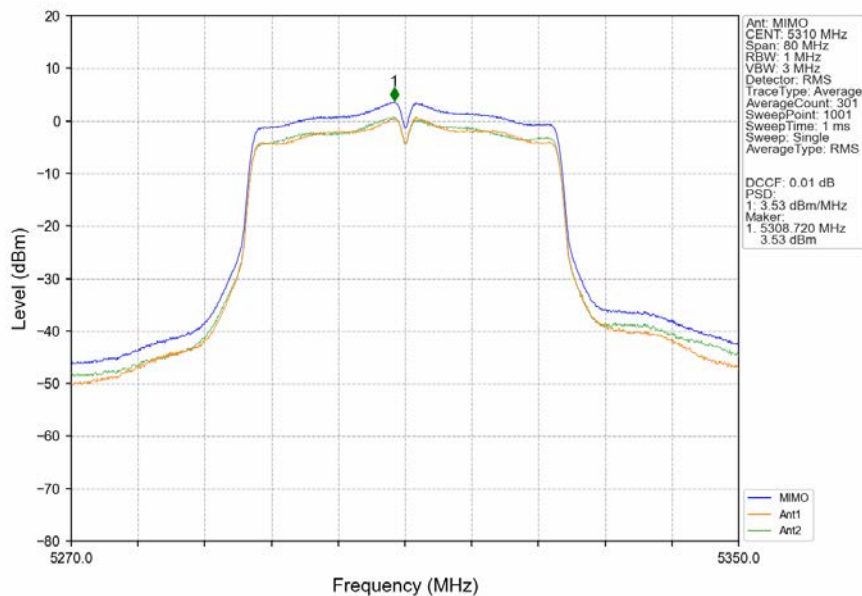
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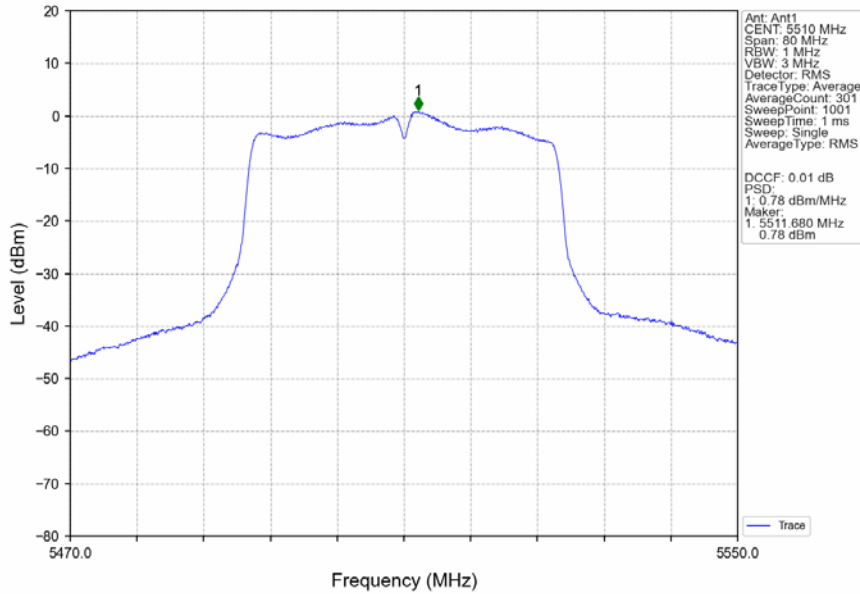
802.11n(HT40)\_HCH\_5310MHz\_Ant2\_NTNV



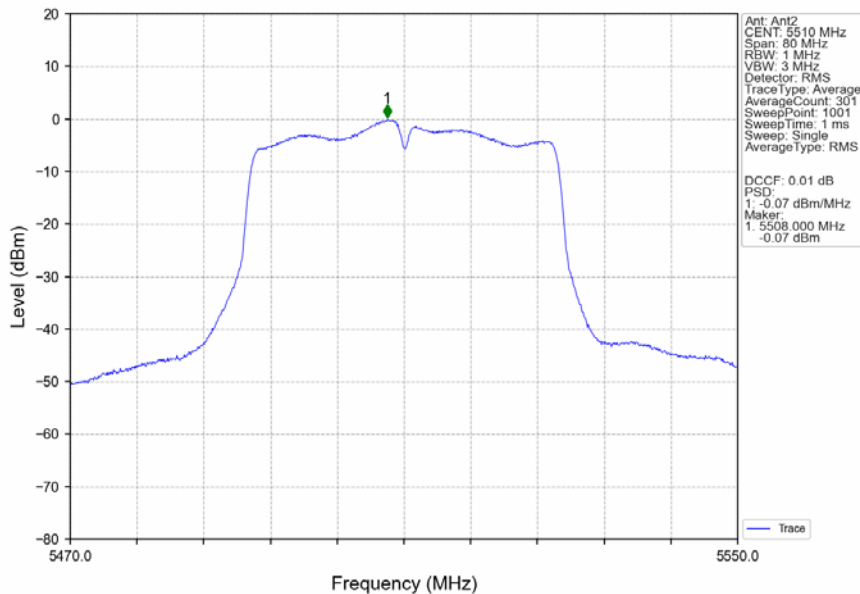
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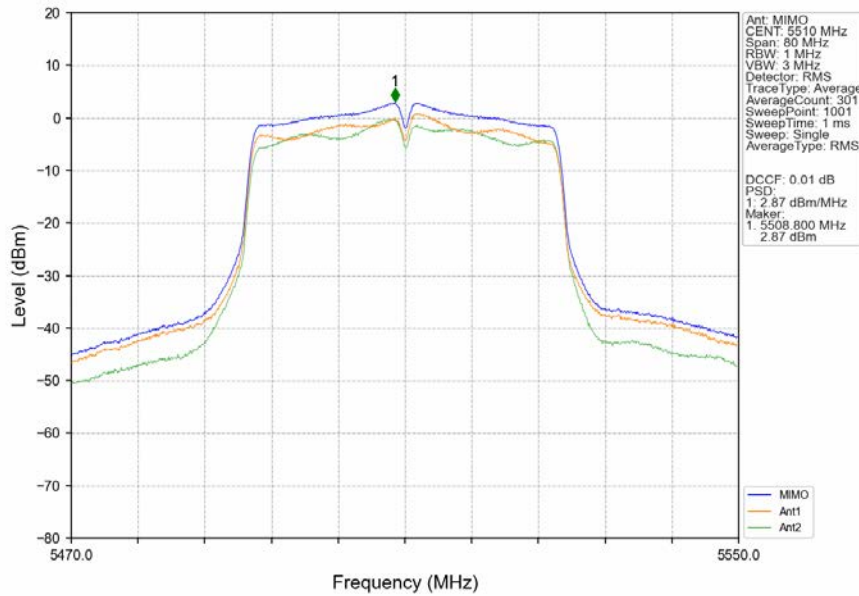
802.11n(HT40)\_LCH\_5510MHz\_Ant1\_NTNV



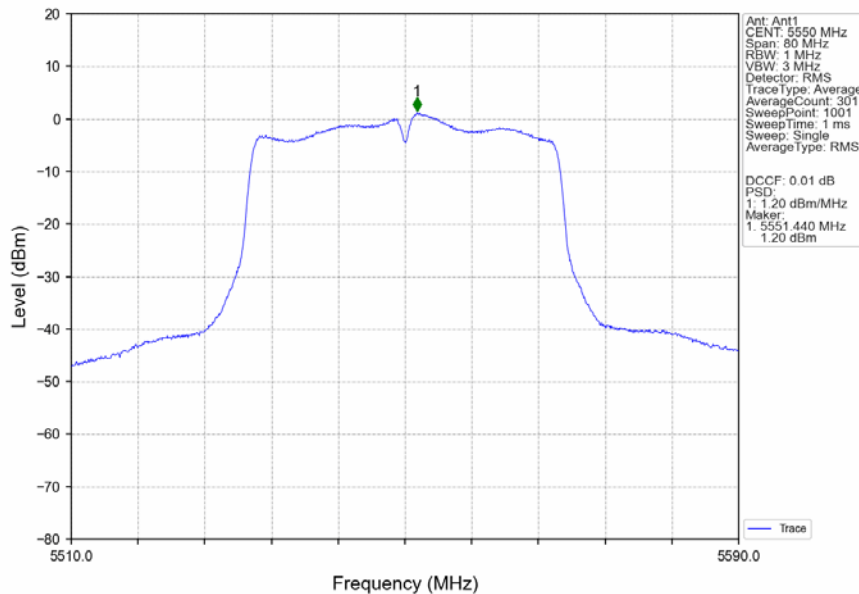
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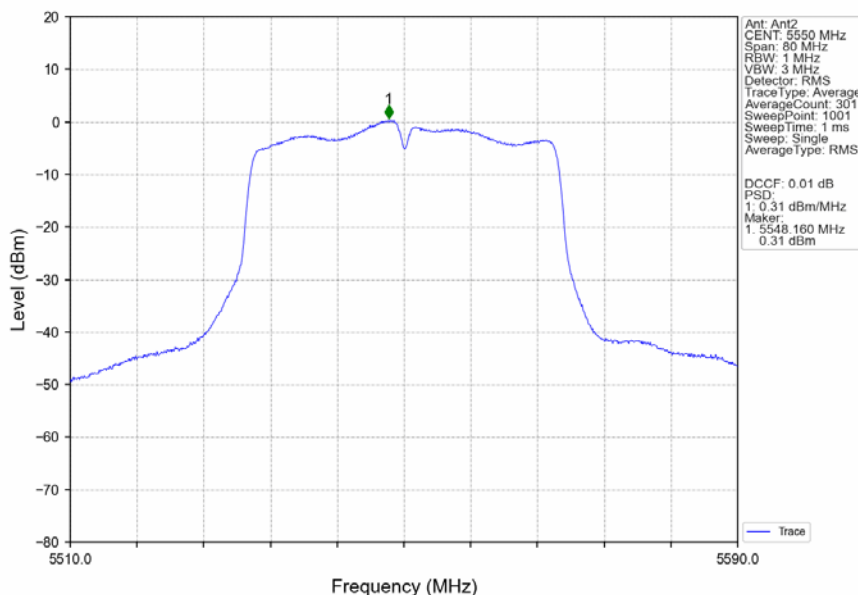
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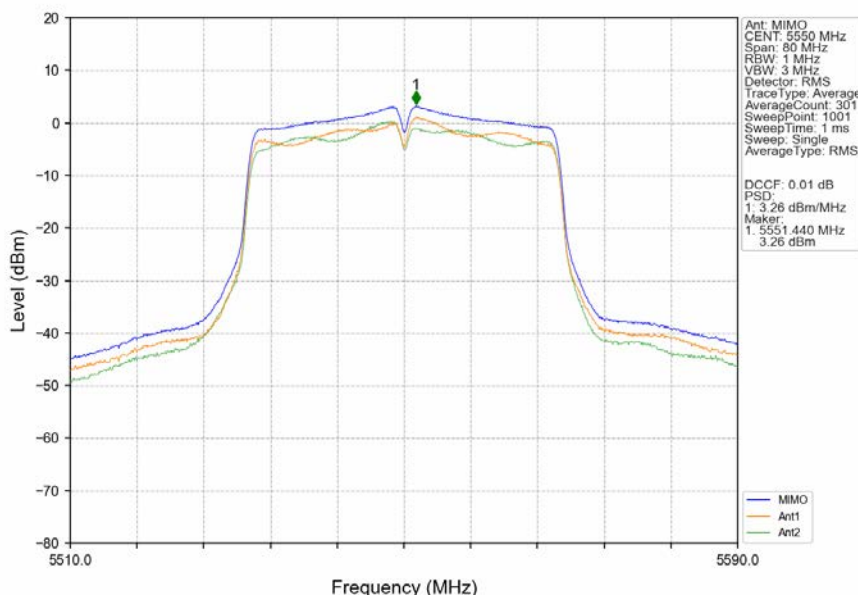
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802.11n(HT40)\_MCH\_5550MHz\_Ant2\_NTNV



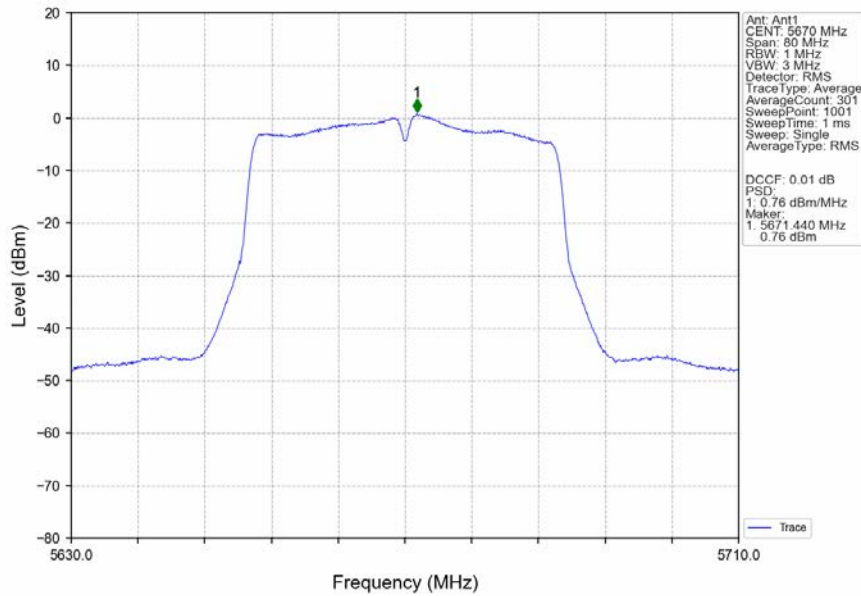
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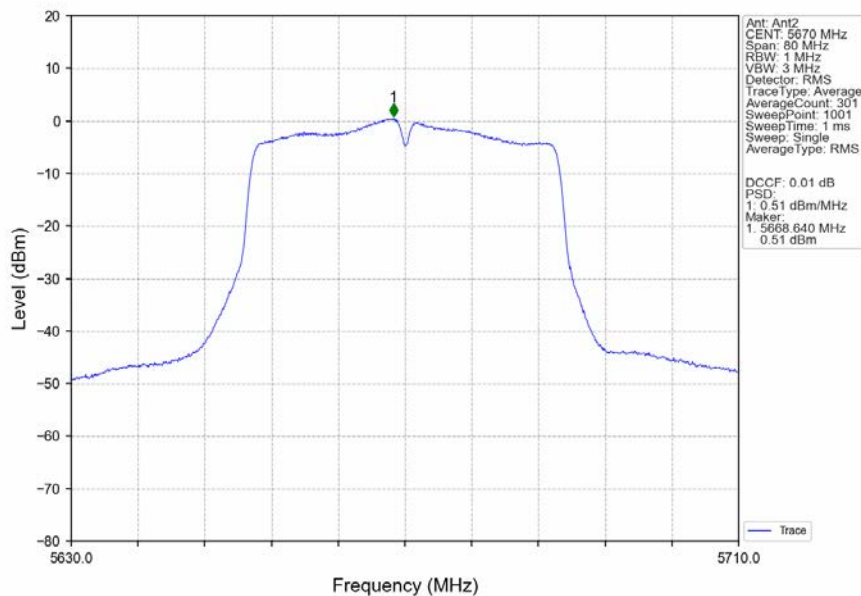
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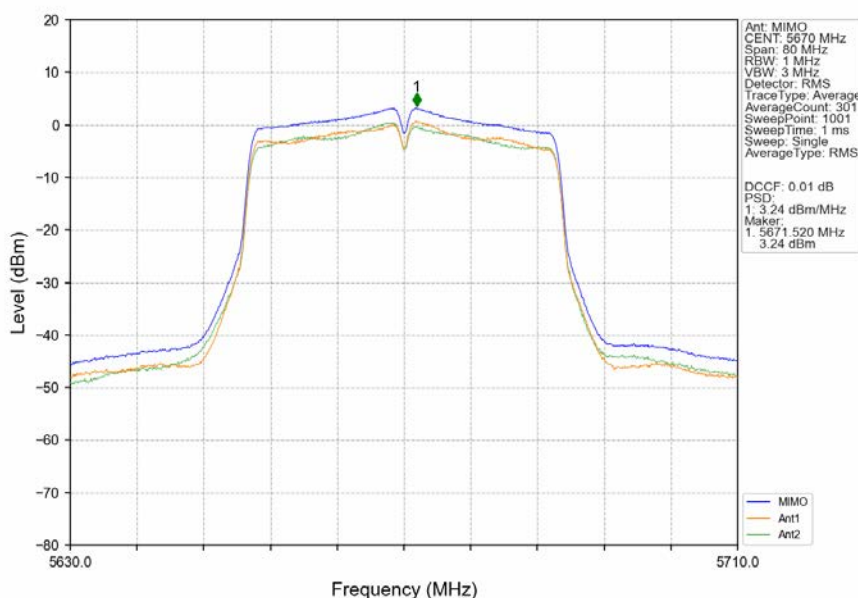
802.11n(HT40)\_HCH\_5670MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5670MHz\_Ant2\_NTNV



### 802.11n(HT40)\_HCH\_5670MHz\_MIMO\_NTNV



### 802.11n(HT40)\_HCH\_5710MHz\_Ant1\_NTNV

