

## **Appendix RF Test Data for WIFI 5G**

**Company:** : Shenzhen Speediance Living Technology co., Ltd.

**EUT** : Interactive Multi-Media DigitalFitness Equipment

**FCC ID:** : 2A4WP-GMBS3100A1

**Model Number** : GMBS3100A1

**Report No.** : HTT202606671F04

**Reviewed By** : Heber He

# 1. Duty Cycle

## 1.1 Test Result

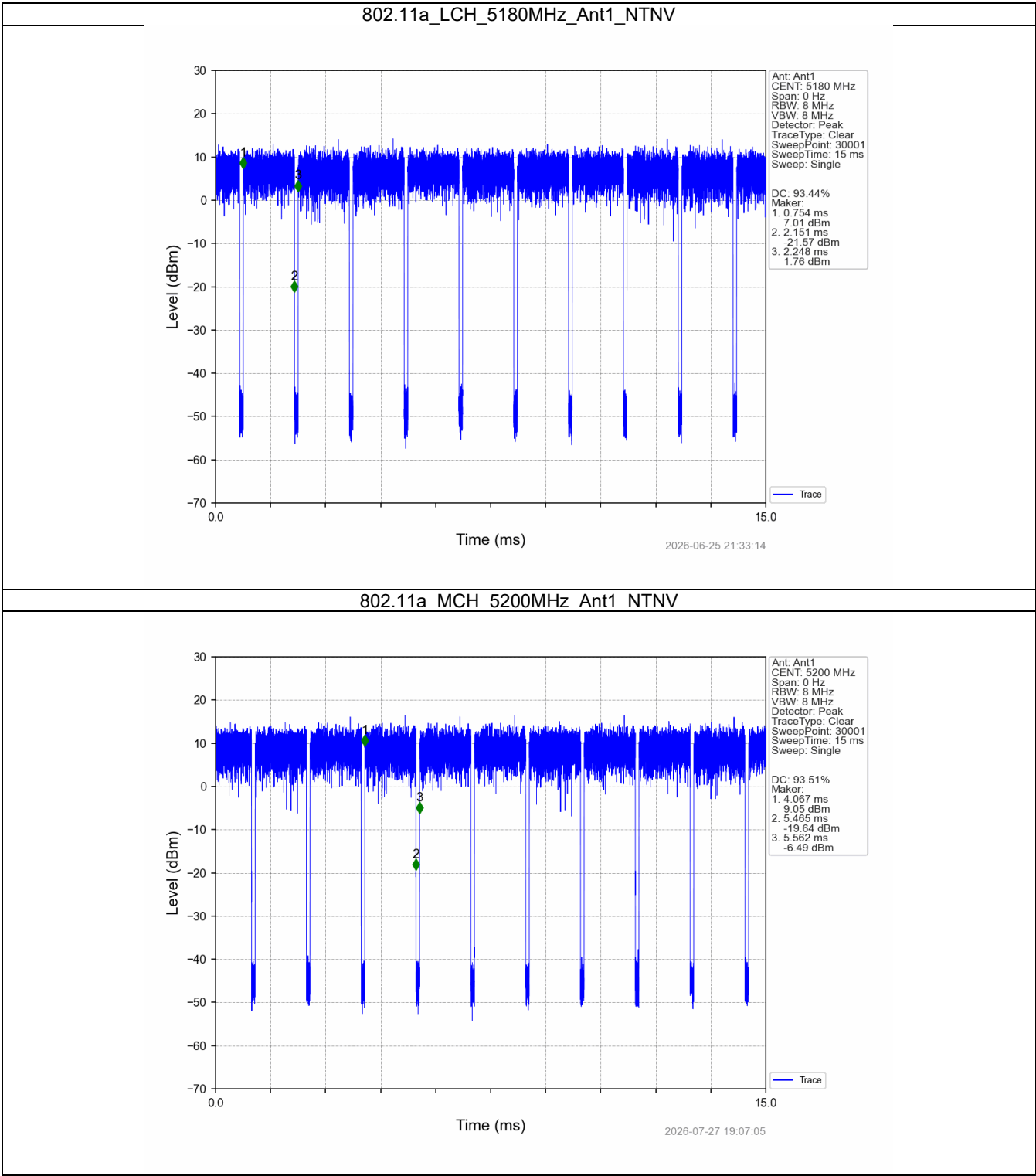
### 1.1.1 Ant1

| Ant1             |         |                 |    |        |           |             |                |                                   |                       |
|------------------|---------|-----------------|----|--------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode             | Tx Type | Frequency (MHz) | RU | RU Pos | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11a          | MIMO    | 5180            | /  | /      | 1.397     | 1.495       | 93.44          | 0.29                              | 0.03                  |
|                  |         | 5200            | /  | /      | 1.397     | 1.494       | 93.51          | 0.29                              | 0.03                  |
|                  |         | 5240            | /  | /      | 1.398     | 1.495       | 93.51          | 0.29                              | 0.06                  |
|                  |         | 5260            | /  | /      | 1.396     | 1.494       | 93.44          | 0.29                              | 0.03                  |
|                  |         | 5300            | /  | /      | 1.397     | 1.495       | 93.44          | 0.29                              | 0.03                  |
|                  |         | 5320            | /  | /      | 1.397     | 1.495       | 93.44          | 0.29                              | 0.03                  |
|                  |         | 5500            | /  | /      | 1.397     | 1.494       | 93.51          | 0.29                              | 0.03                  |
|                  |         | 5600            | /  | /      | 1.396     | 1.494       | 93.44          | 0.29                              | 0.03                  |
|                  |         | 5700            | /  | /      | 1.397     | 1.494       | 93.51          | 0.29                              | 0.03                  |
|                  |         | 5745            | /  | /      | 1.397     | 1.494       | 93.51          | 0.29                              | 0.03                  |
|                  |         | 5785            | /  | /      | 1.397     | 1.495       | 93.44          | 0.29                              | 0.03                  |
|                  |         | 5825            | /  | /      | 1.397     | 1.494       | 93.51          | 0.29                              | 0.06                  |
| 802.11n (HT20)   | MIMO    | 5180            | /  | /      | 1.310     | 1.408       | 93.04          | 0.31                              | 0.06                  |
|                  |         | 5200            | /  | /      | 1.309     | 1.407       | 93.03          | 0.31                              | 0.00                  |
|                  |         | 5240            | /  | /      | 1.309     | 1.407       | 93.03          | 0.31                              | 0.03                  |
|                  |         | 5260            | /  | /      | 1.309     | 1.406       | 93.10          | 0.31                              | 0.03                  |
|                  |         | 5300            | /  | /      | 1.309     | 1.406       | 93.10          | 0.31                              | 0.00                  |
|                  |         | 5320            | /  | /      | 1.309     | 1.406       | 93.10          | 0.31                              | 0.00                  |
|                  |         | 5500            | /  | /      | 1.309     | 1.407       | 93.03          | 0.31                              | 0.03                  |
|                  |         | 5600            | /  | /      | 1.309     | 1.406       | 93.10          | 0.31                              | 0.03                  |
|                  |         | 5700            | /  | /      | 1.309     | 1.406       | 93.10          | 0.31                              | 0.03                  |
|                  |         | 5745            | /  | /      | 1.309     | 1.407       | 93.03          | 0.31                              | 0.03                  |
|                  |         | 5785            | /  | /      | 1.310     | 1.407       | 93.11          | 0.31                              | 0.03                  |
|                  |         | 5825            | /  | /      | 1.309     | 1.407       | 93.03          | 0.31                              | 0.03                  |
| 802.11n (HT40)   | MIMO    | 5190            | /  | /      | 0.648     | 0.747       | 86.75          | 0.62                              | 0.04                  |
|                  |         | 5230            | /  | /      | 0.649     | 0.747       | 86.88          | 0.61                              | 0.04                  |
|                  |         | 5270            | /  | /      | 0.648     | 0.747       | 86.75          | 0.62                              | 0.04                  |
|                  |         | 5310            | /  | /      | 0.648     | 0.747       | 86.75          | 0.62                              | 0.04                  |
|                  |         | 5510            | /  | /      | 0.649     | 0.747       | 86.88          | 0.61                              | 0.07                  |
|                  |         | 5590            | /  | /      | 0.648     | 0.747       | 86.75          | 0.62                              | 0.00                  |
|                  |         | 5670            | /  | /      | 0.650     | 0.747       | 87.01          | 0.60                              | 0.04                  |
|                  |         | 5755            | /  | /      | 0.649     | 0.747       | 86.88          | 0.61                              | 0.00                  |
|                  |         | 5795            | /  | /      | 0.649     | 0.747       | 86.88          | 0.61                              | 0.07                  |
| 802.11ac (VHT20) | MIMO    | 5180            | /  | /      | 1.317     | 1.415       | 93.07          | 0.31                              | 0.03                  |
|                  |         | 5200            | /  | /      | 1.318     | 1.415       | 93.14          | 0.31                              | 0.03                  |
|                  |         | 5240            | /  | /      | 1.317     | 1.414       | 93.14          | 0.31                              | 0.03                  |
|                  |         | 5260            | /  | /      | 1.317     | 1.415       | 93.07          | 0.31                              | 0.07                  |
|                  |         | 5300            | /  | /      | 1.316     | 1.415       | 93.00          | 0.32                              | 0.03                  |
|                  |         | 5320            | /  | /      | 1.317     | 1.414       | 93.14          | 0.31                              | 0.04                  |
|                  |         | 5500            | /  | /      | 1.317     | 1.414       | 93.14          | 0.31                              | 0.03                  |
|                  |         | 5600            | /  | /      | 1.317     | 1.414       | 93.14          | 0.31                              | 0.04                  |
|                  |         | 5700            | /  | /      | 1.317     | 1.415       | 93.07          | 0.31                              | 0.00                  |
|                  |         | 5745            | /  | /      | 1.317     | 1.415       | 93.07          | 0.31                              | 0.06                  |
|                  |         | 5785            | /  | /      | 1.317     | 1.414       | 93.14          | 0.31                              | 0.03                  |
|                  |         | 5825            | /  | /      | 1.317     | 1.415       | 93.07          | 0.31                              | 0.06                  |
| 802.11ac (VHT40) | MIMO    | 5190            | /  | /      | 0.658     | 0.755       | 87.15          | 0.60                              | 0.04                  |
|                  |         | 5230            | /  | /      | 0.656     | 0.755       | 86.89          | 0.61                              | 0.07                  |
|                  |         | 5270            | /  | /      | 0.656     | 0.755       | 86.89          | 0.61                              | 0.07                  |
|                  |         | 5310            | /  | /      | 0.656     | 0.755       | 86.89          | 0.61                              | 0.04                  |

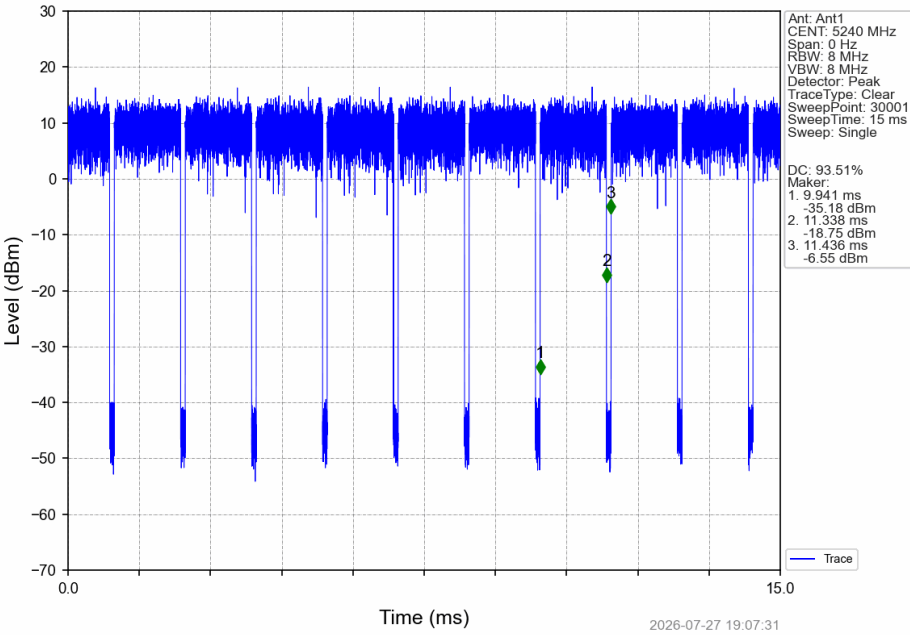
|                     |      |      |    |   |       |       |       |      |      |
|---------------------|------|------|----|---|-------|-------|-------|------|------|
|                     |      | 5510 | /  | / | 0.656 | 0.755 | 86.89 | 0.61 | 0.04 |
|                     |      | 5590 | /  | / | 0.658 | 0.755 | 87.15 | 0.60 | 0.07 |
|                     |      | 5670 | /  | / | 0.658 | 0.755 | 87.15 | 0.60 | 0.06 |
|                     |      | 5755 | /  | / | 0.658 | 0.755 | 87.15 | 0.60 | 0.04 |
|                     |      | 5795 | /  | / | 0.657 | 0.755 | 87.02 | 0.60 | 0.10 |
| 802.11ac<br>(VHT80) | MIMO | 5210 | /  | / | 0.330 | 0.424 | 77.83 | 1.09 | 0.07 |
|                     |      | 5290 | /  | / | 0.329 | 0.423 | 77.78 | 1.09 | 0.12 |
|                     |      | 5530 | /  | / | 0.329 | 0.423 | 77.78 | 1.09 | 0.14 |
|                     |      | 5610 | /  | / | 0.325 | 0.423 | 76.83 | 1.14 | 0.09 |
|                     |      | 5775 | /  | / | 0.325 | 0.423 | 76.83 | 1.14 | 0.08 |
| 802.11ax<br>(HEW20) | MIMO | 5180 | SU | / | 1.022 | 1.121 | 91.17 | 0.40 | 0.06 |
|                     |      | 5200 | SU | / | 1.022 | 1.121 | 91.17 | 0.40 | 0.03 |
|                     |      | 5240 | SU | / | 1.021 | 1.120 | 91.16 | 0.40 | 0.06 |
|                     |      | 5260 | SU | / | 1.021 | 1.119 | 91.24 | 0.40 | 0.04 |
|                     |      | 5300 | SU | / | 1.021 | 1.120 | 91.16 | 0.40 | 0.03 |
|                     |      | 5320 | SU | / | 1.022 | 1.120 | 91.25 | 0.40 | 0.03 |
|                     |      | 5500 | SU | / | 1.021 | 1.120 | 91.16 | 0.40 | 0.07 |
|                     |      | 5600 | SU | / | 1.022 | 1.120 | 91.25 | 0.40 | 0.06 |
|                     |      | 5700 | SU | / | 1.021 | 1.120 | 91.16 | 0.40 | 0.03 |
|                     |      | 5745 | SU | / | 1.021 | 1.120 | 91.16 | 0.40 | 0.07 |
|                     |      | 5785 | SU | / | 1.021 | 1.119 | 91.24 | 0.40 | 0.03 |
|                     |      | 5825 | SU | / | 1.021 | 1.120 | 91.16 | 0.40 | 0.07 |
| 802.11ax<br>(HEW40) | MIMO | 5190 | SU | / | 0.541 | 0.640 | 84.53 | 0.73 | 0.03 |
|                     |      | 5230 | SU | / | 0.541 | 0.640 | 84.53 | 0.73 | 0.06 |
|                     |      | 5270 | SU | / | 0.541 | 0.640 | 84.53 | 0.73 | 0.03 |
|                     |      | 5310 | SU | / | 0.542 | 0.640 | 84.69 | 0.72 | 0.00 |
|                     |      | 5510 | SU | / | 0.541 | 0.640 | 84.53 | 0.73 | 0.06 |
|                     |      | 5590 | SU | / | 0.541 | 0.640 | 84.53 | 0.73 | 0.03 |
|                     |      | 5670 | SU | / | 0.541 | 0.640 | 84.53 | 0.73 | 0.03 |
|                     |      | 5755 | SU | / | 0.541 | 0.640 | 84.53 | 0.73 | 0.03 |
| 802.11ax<br>(HEW80) | MIMO | 5795 | SU | / | 0.541 | 0.640 | 84.53 | 0.73 | 0.03 |
|                     |      | 5210 | SU | / | 0.291 | 0.390 | 74.62 | 1.27 | 0.04 |
|                     |      | 5290 | SU | / | 0.290 | 0.390 | 74.36 | 1.29 | 0.07 |
|                     |      | 5530 | SU | / | 0.289 | 0.390 | 74.10 | 1.30 | 0.11 |
|                     |      | 5610 | SU | / | 0.291 | 0.390 | 74.62 | 1.27 | 0.07 |
|                     |      | 5775 | SU | / | 0.290 | 0.389 | 74.55 | 1.28 | 0.04 |

# 1.2 Test Graph

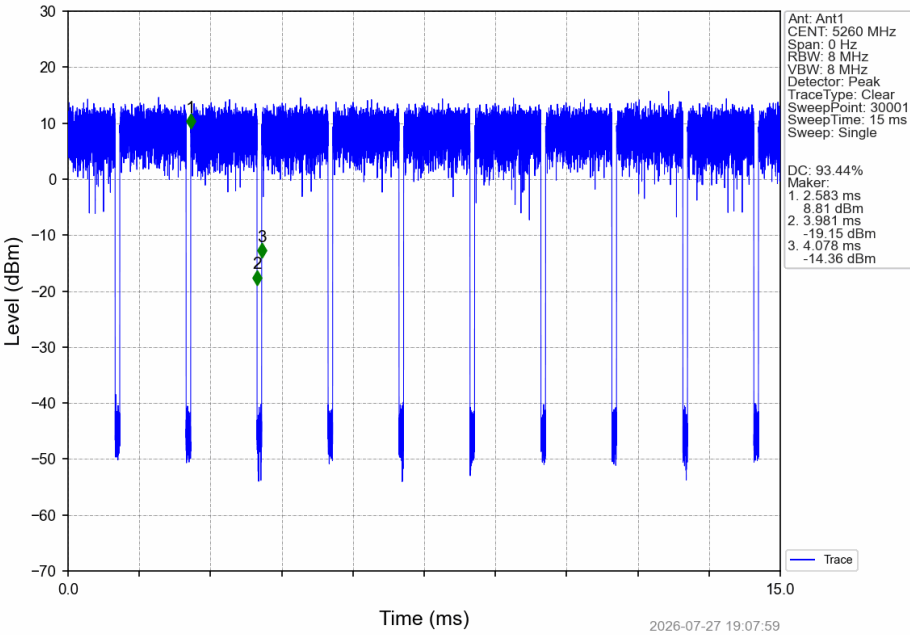
## 1.2.1 Ant1



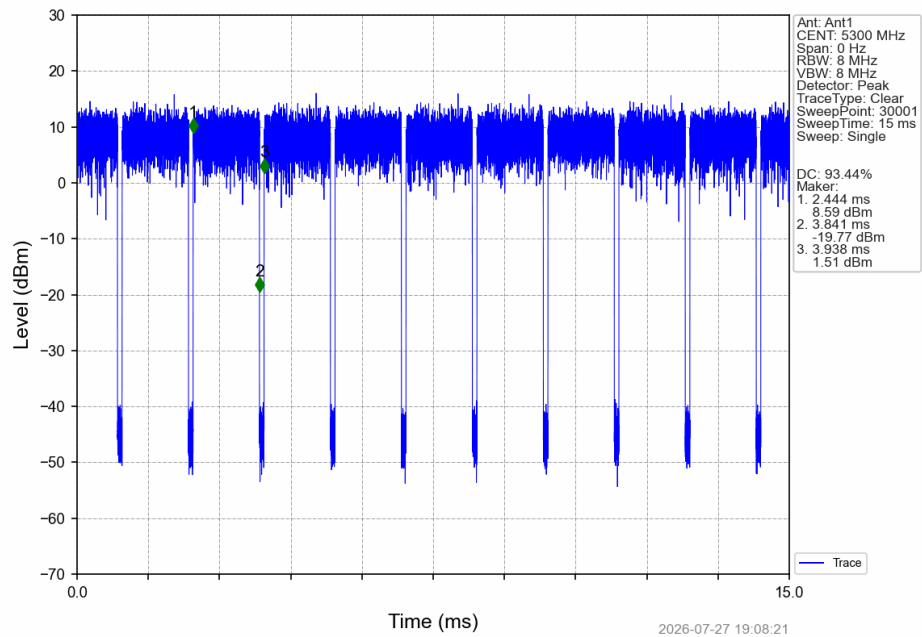
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



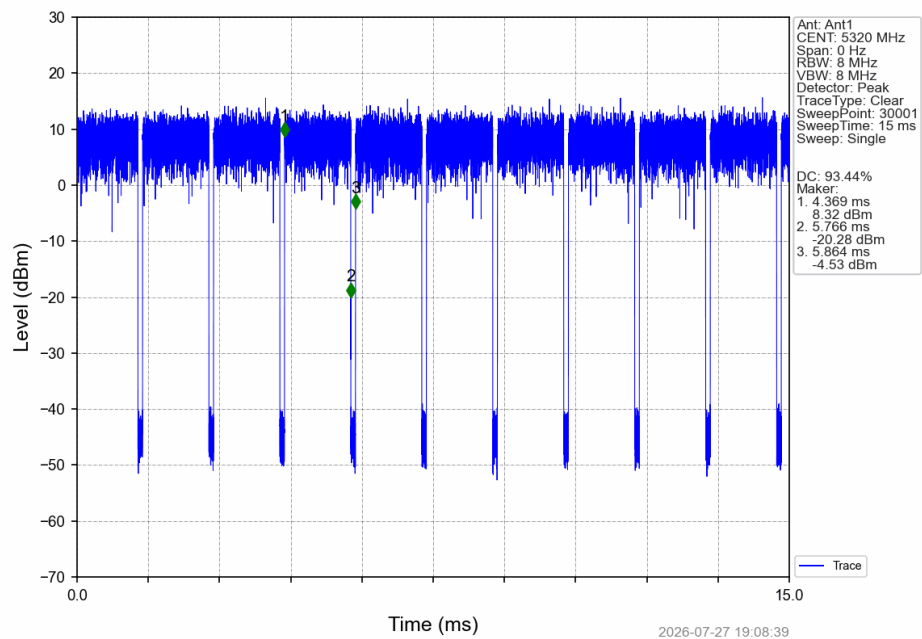
802.11a\_LCH\_5260MHz\_Ant1\_NTNV



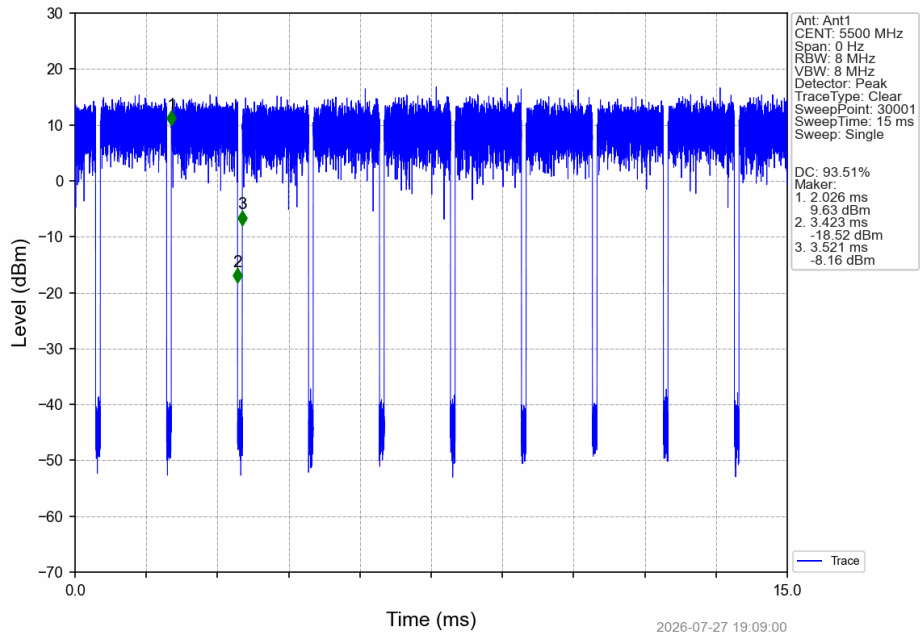
# 802.11a\_MCH\_5300MHz\_Ant1\_NTNV



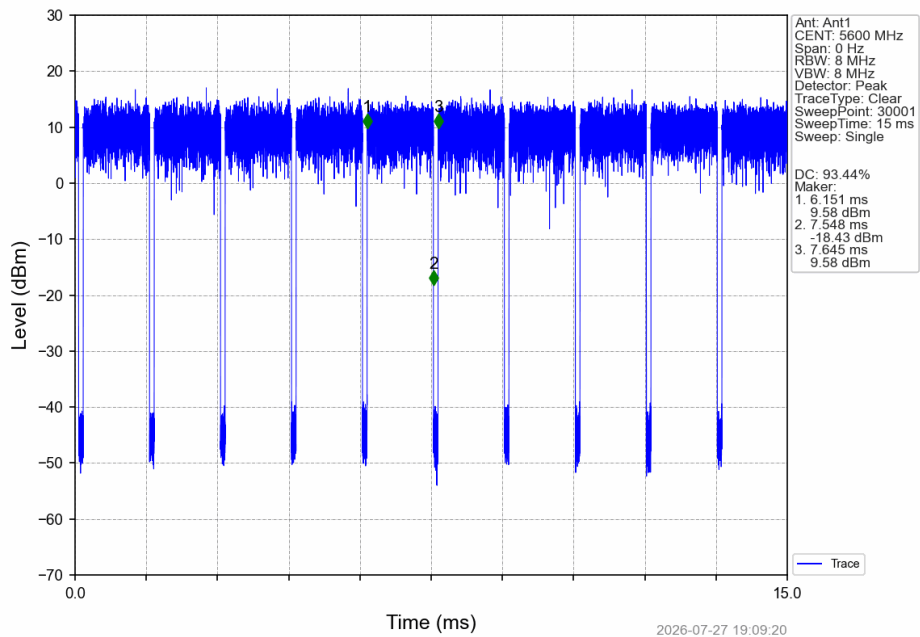
# 802.11a\_HCH\_5320MHz\_Ant1\_NTNV



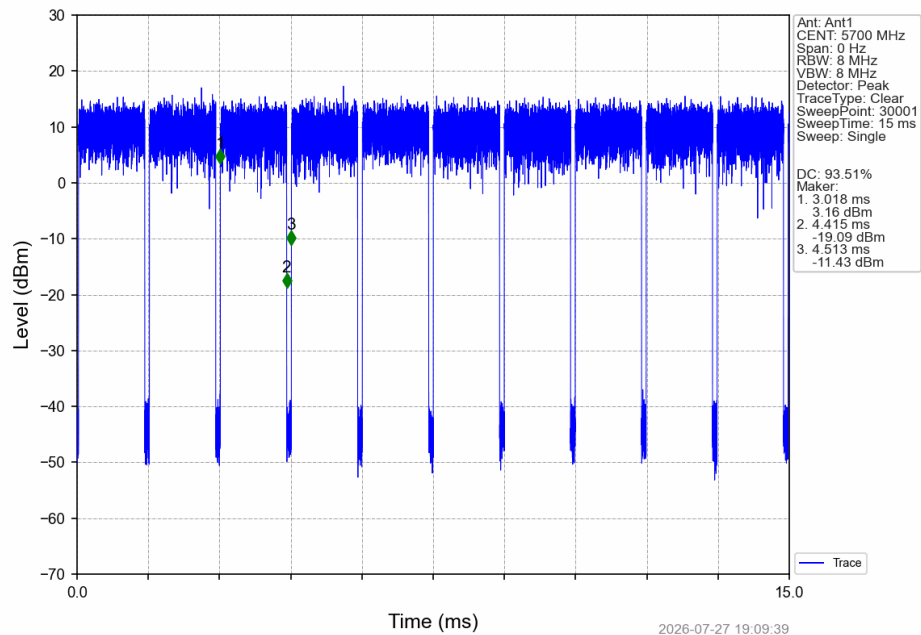
# 802.11a LCH 5500MHz Ant1 NTN



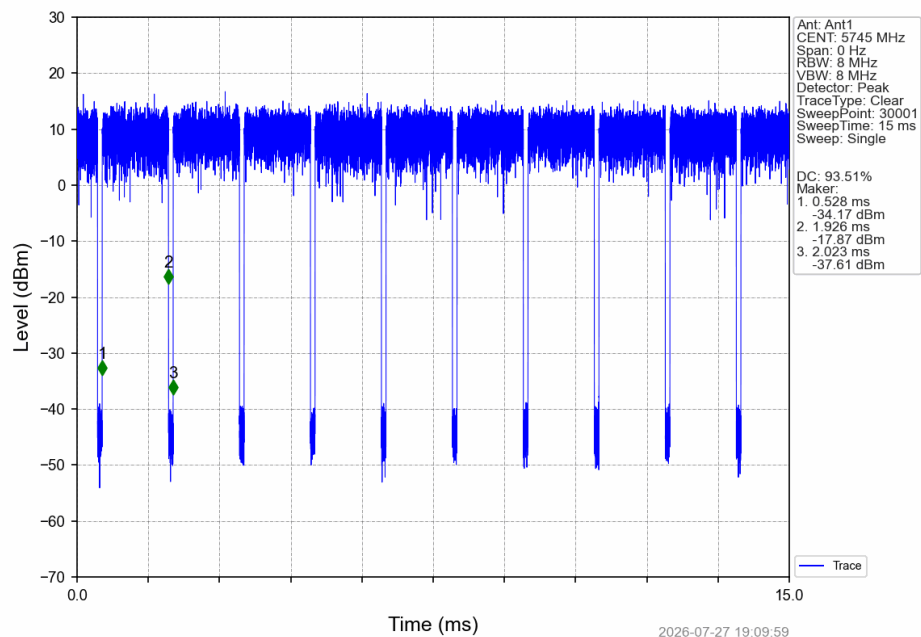
# 802.11a\_MCH 5600MHz\_Ant1 NTN



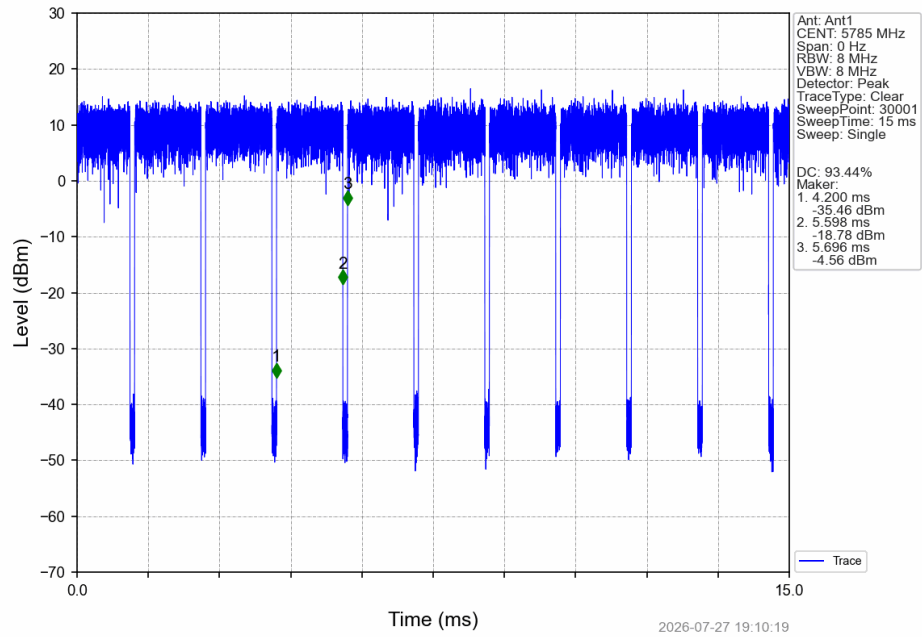
802.11a\_HCH\_5700MHz\_Ant1\_NTNV



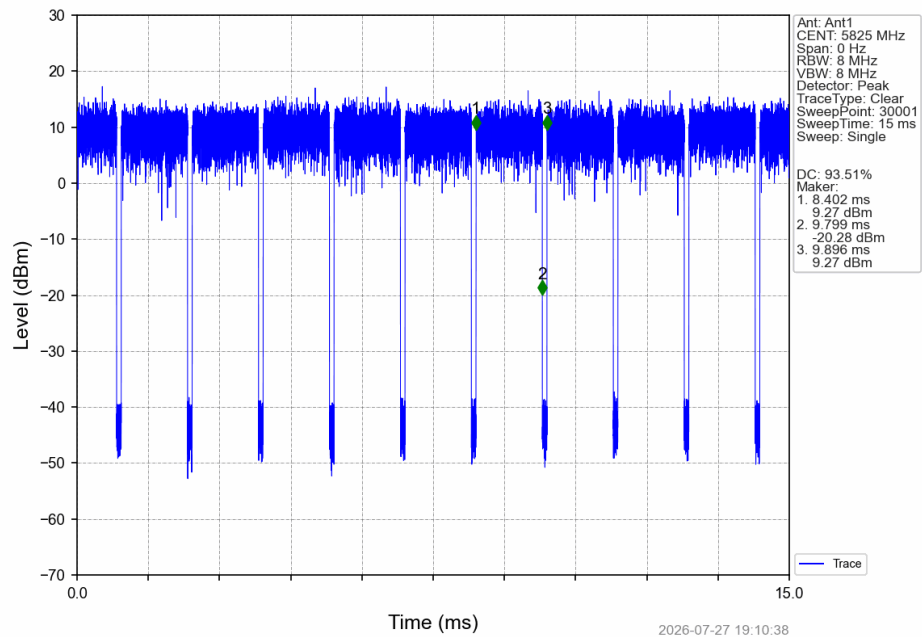
802.11a\_LCH\_5745MHz\_Ant1\_NTNV



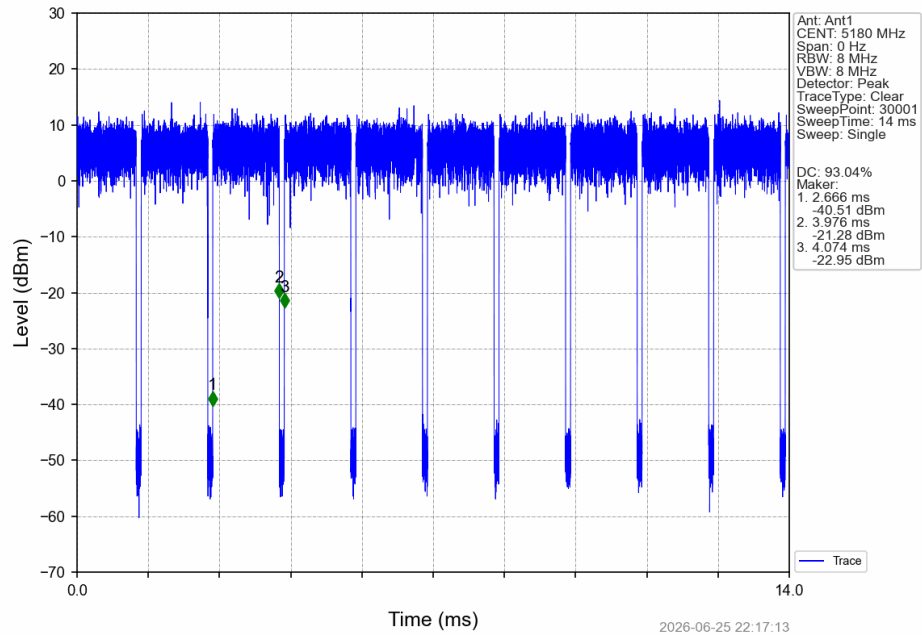
# 802.11a\_MCH\_5785MHz\_Ant1\_NTNV



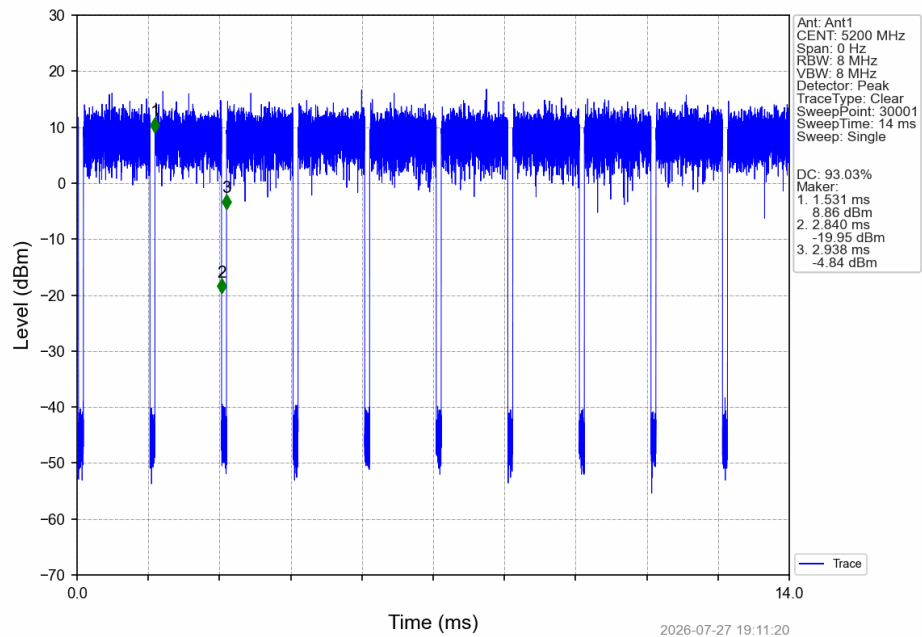
# 802.11a\_HCH\_5825MHz\_Ant1\_NTNV



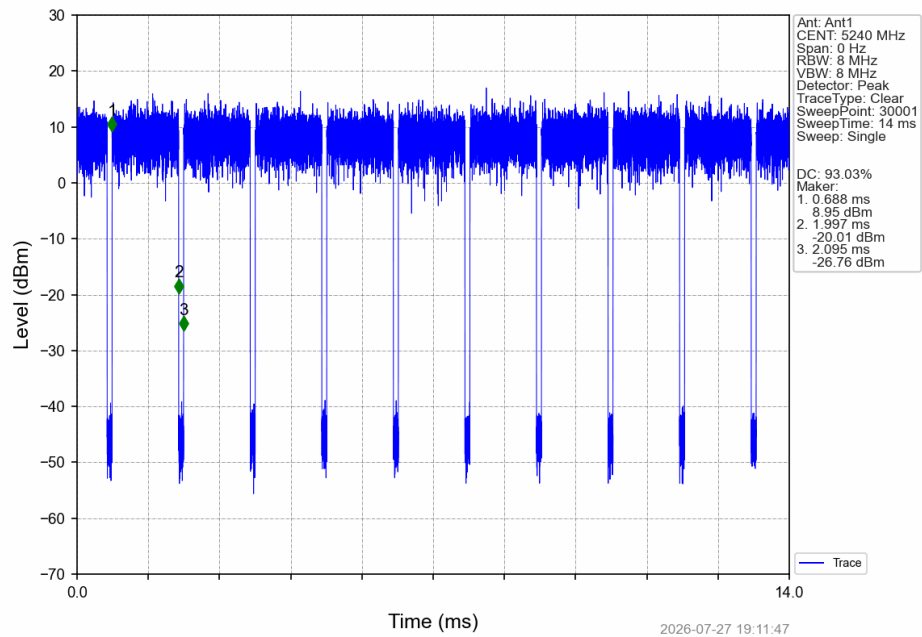
# 802.11n(HT20) LCH 5180MHz Ant1 NTN



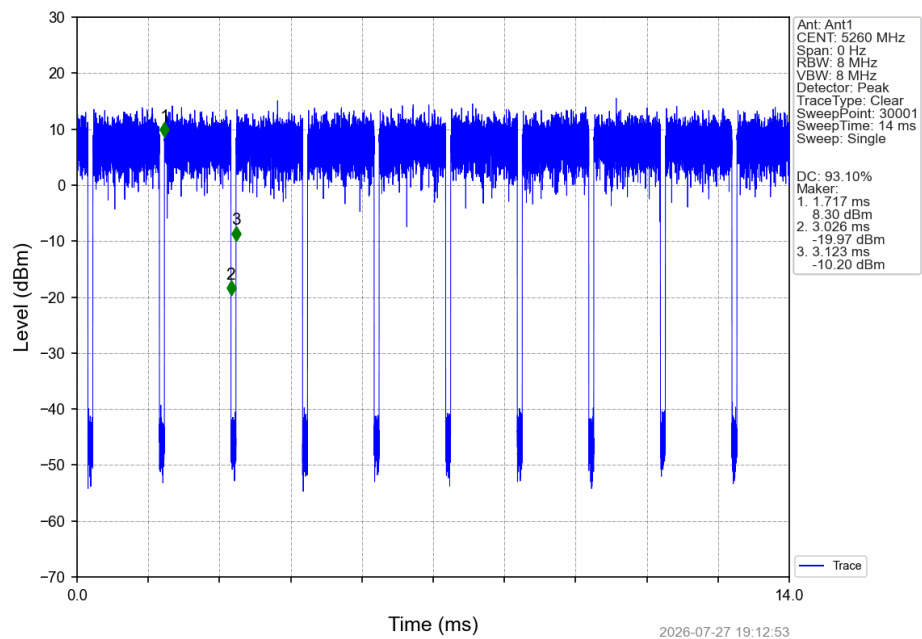
# 802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTN



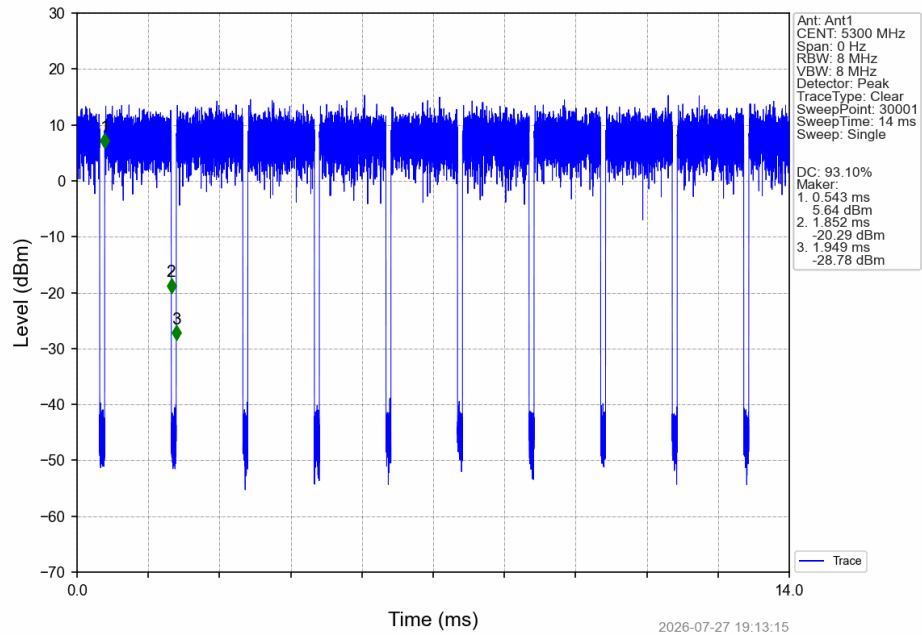
# 802.11n(HT20) HCH 5240MHz Ant1 NTN



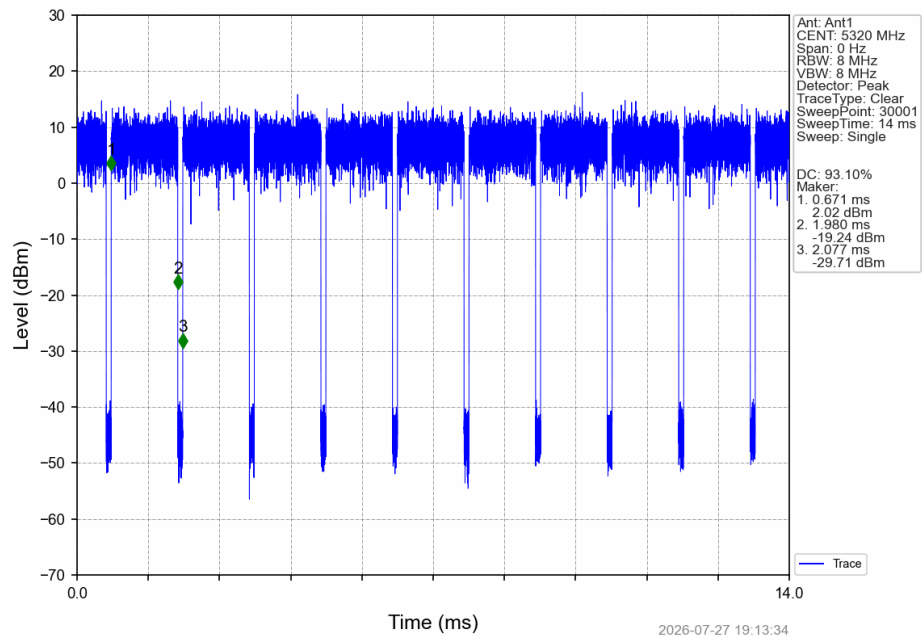
# 802.11n(HT20)\_LCH\_5260MHz\_Ant1\_NTN



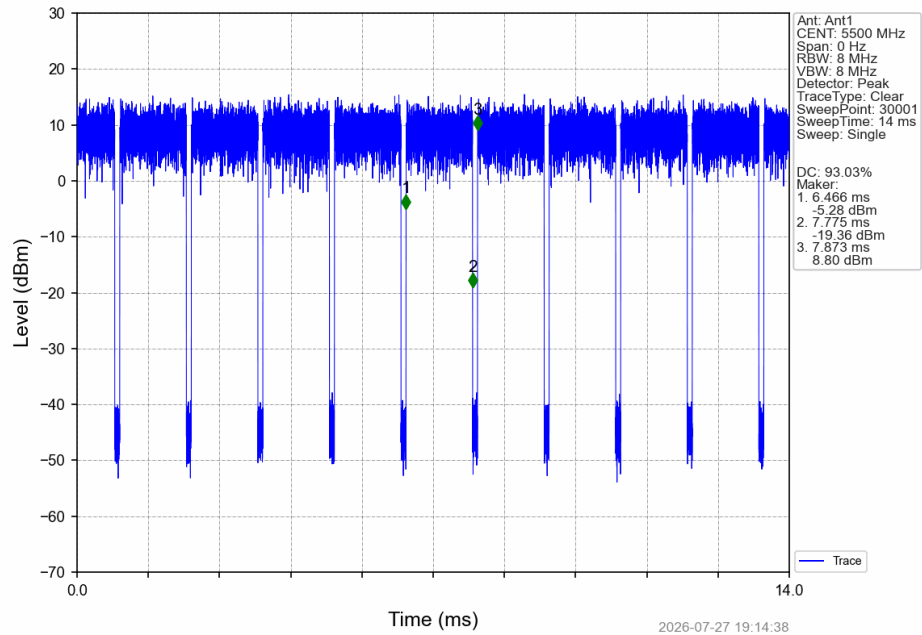
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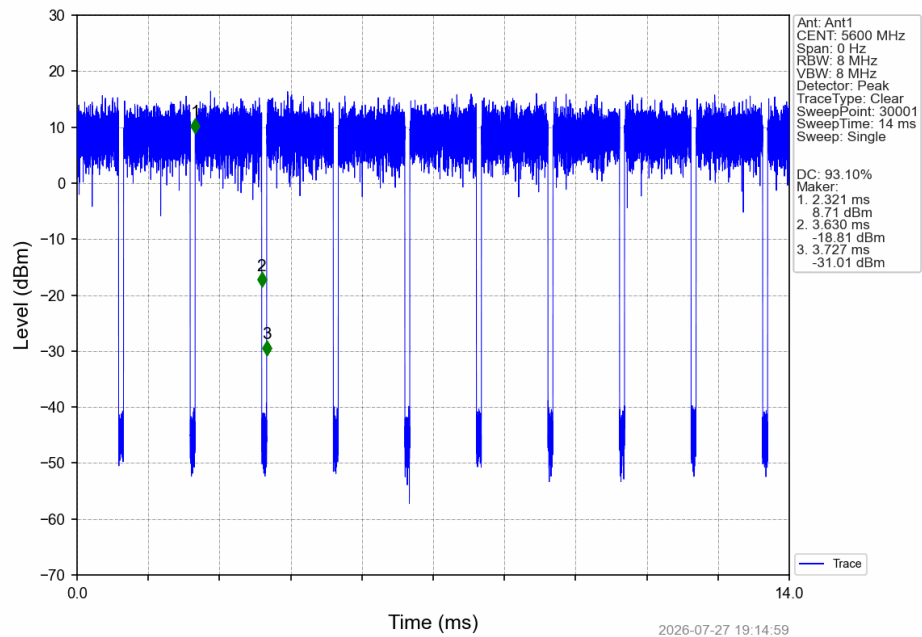
# 802.11n(HT20)\_HCH\_5320MHz\_Ant1\_NTN



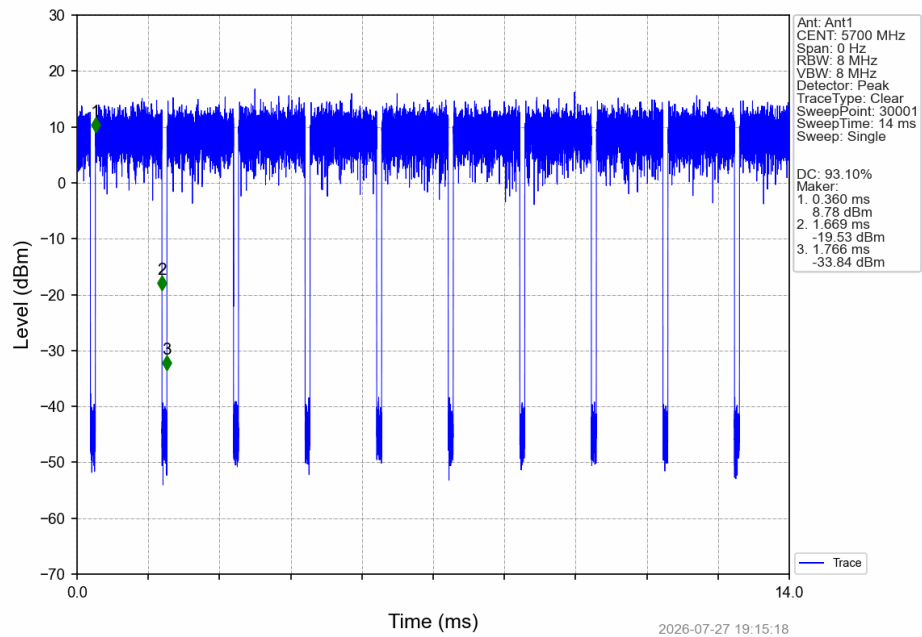
# 802.11n(HT20) LCH 5500MHz Ant1 NTN



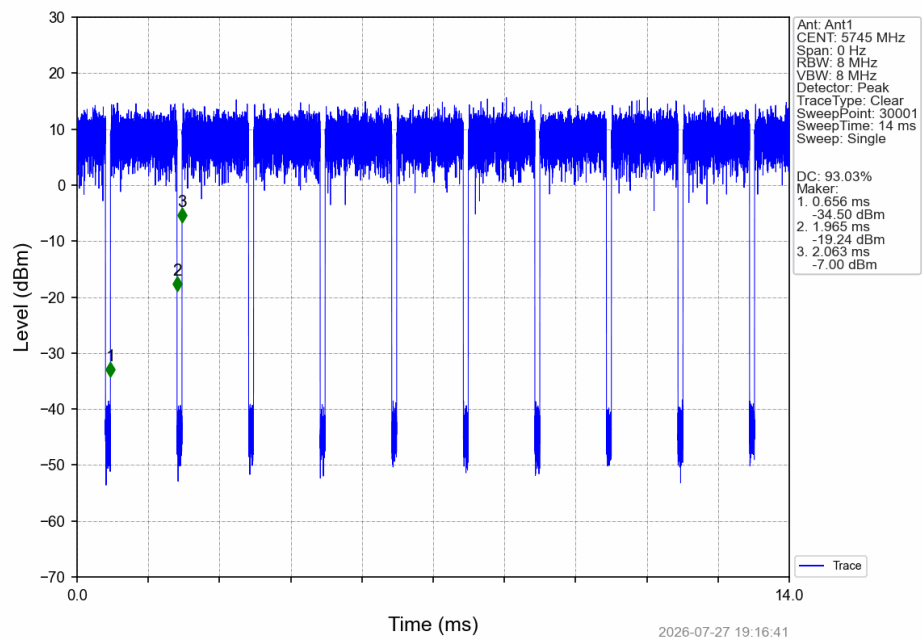
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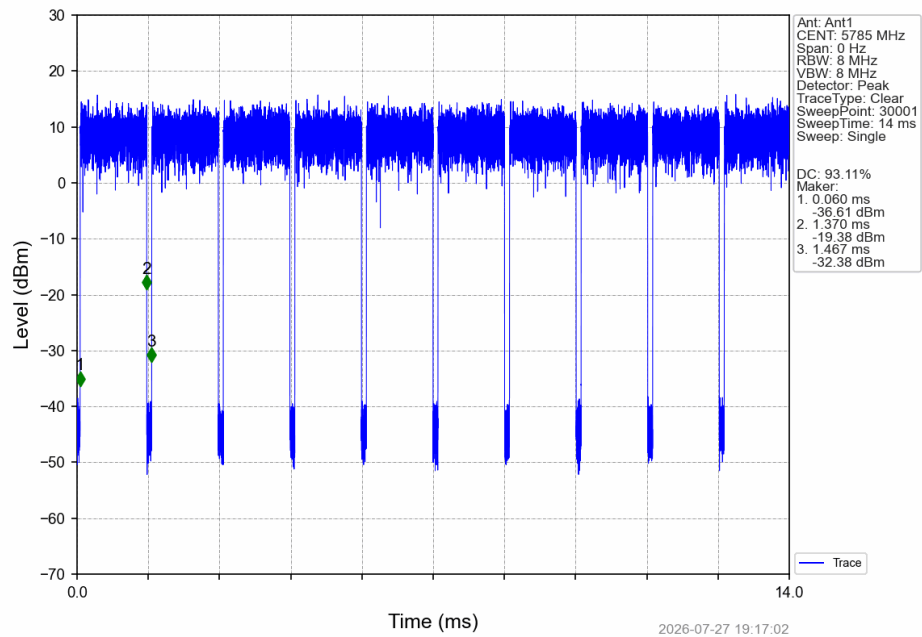
# 802.11n(HT20) HCH 5700MHz Ant1 NTN



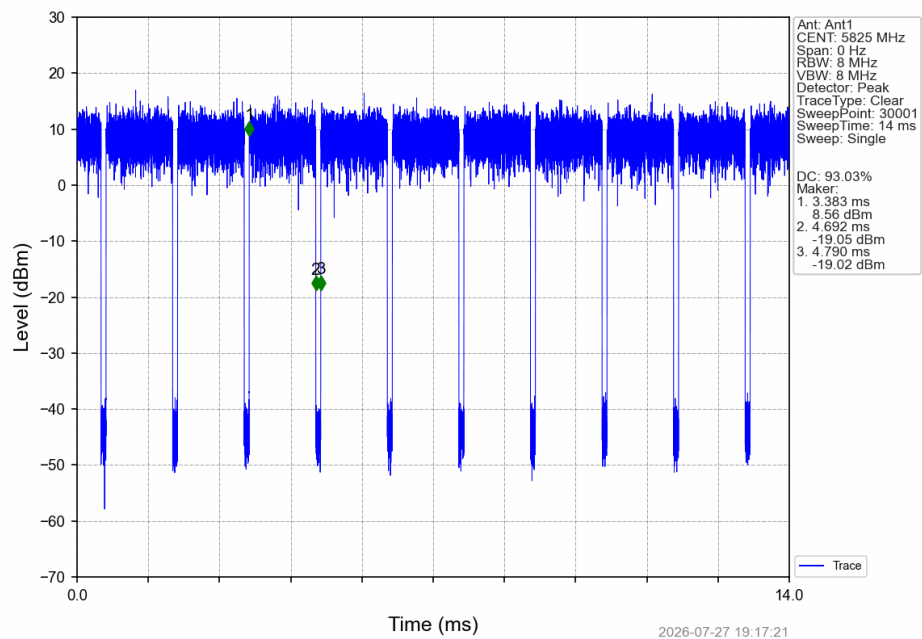
# 802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTN



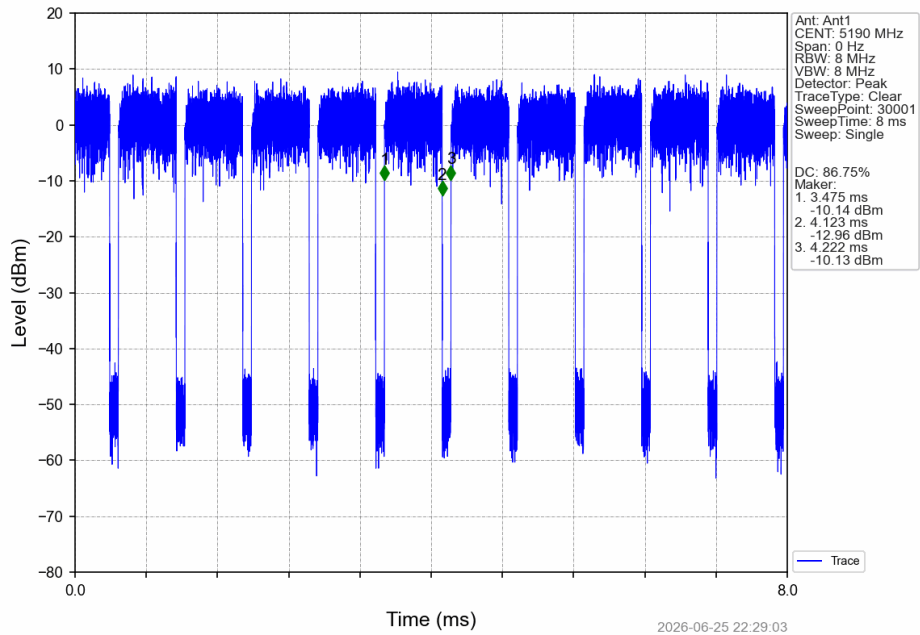
# 802.11n(HT20) MCH 5785MHz Ant1 NTN



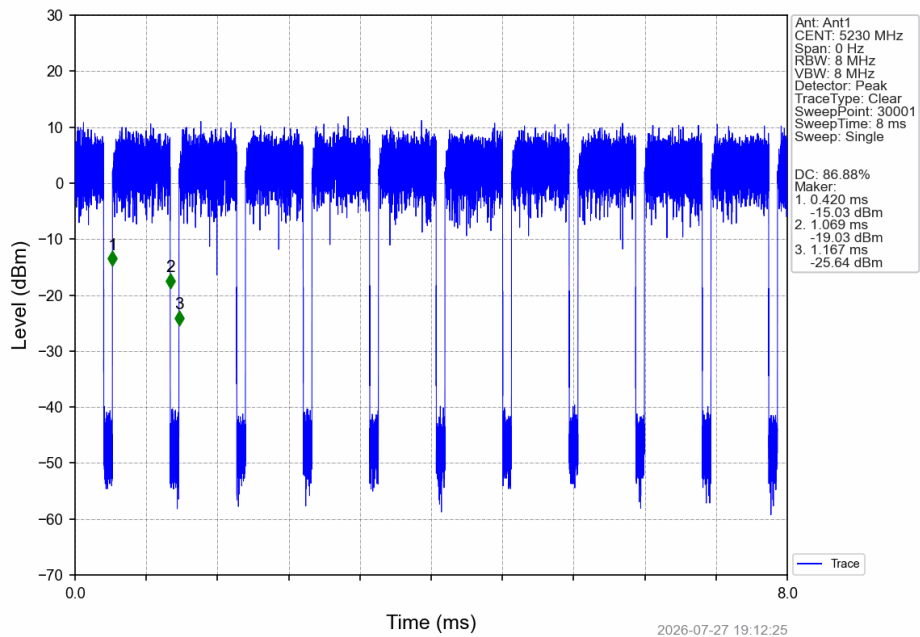
# 802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTN



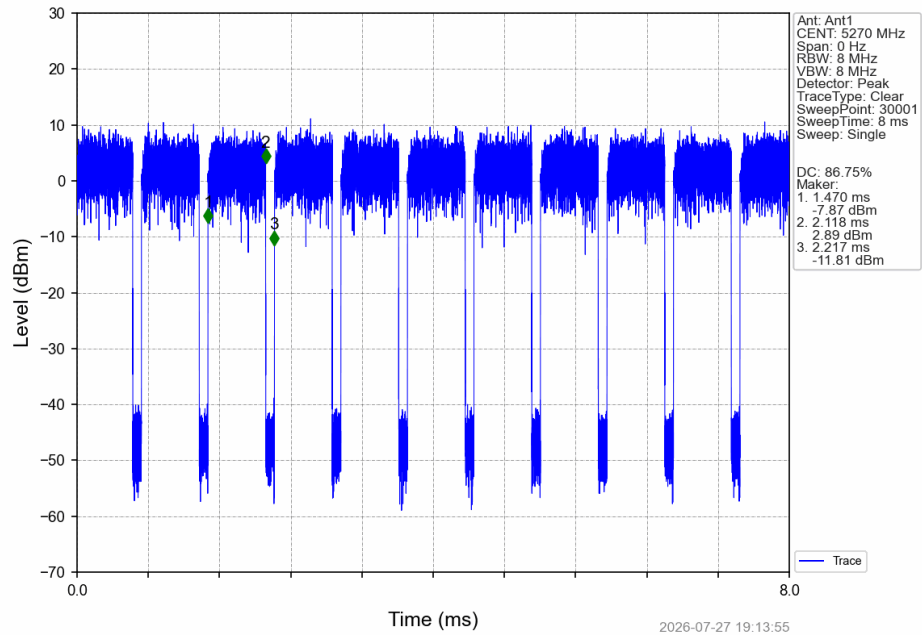
# 802.11n(HT40) LCH 5190MHz Ant1 NTN



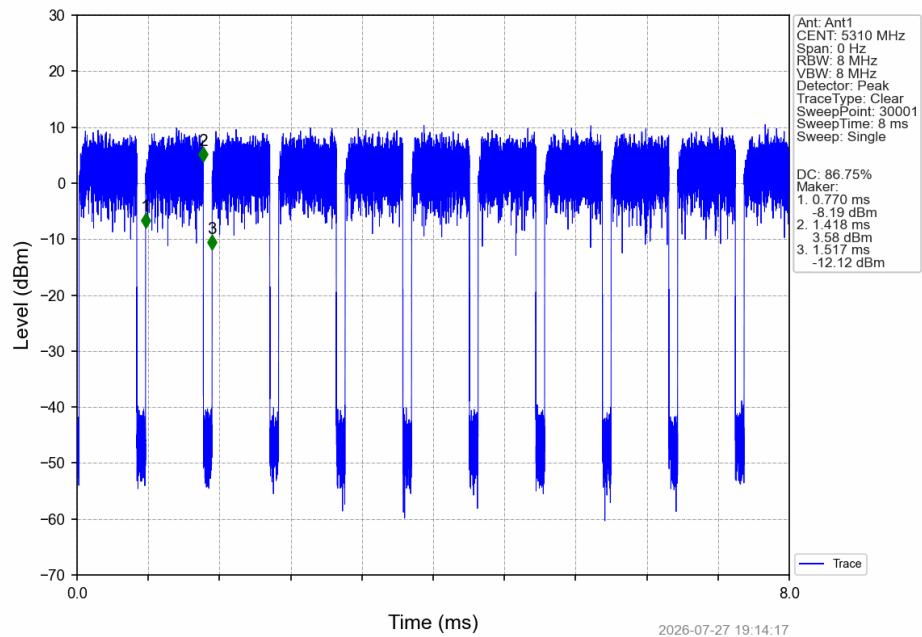
# 802.11n(HT40)\_HCH 5230MHz Ant1 NTN



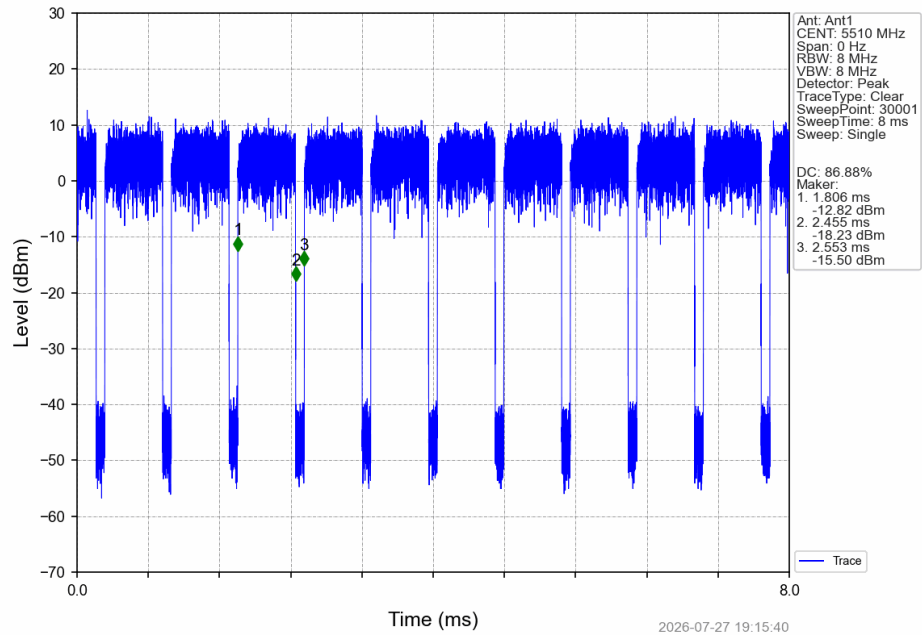
# 802.11n(HT40) LCH 5270MHz Ant1 NTN



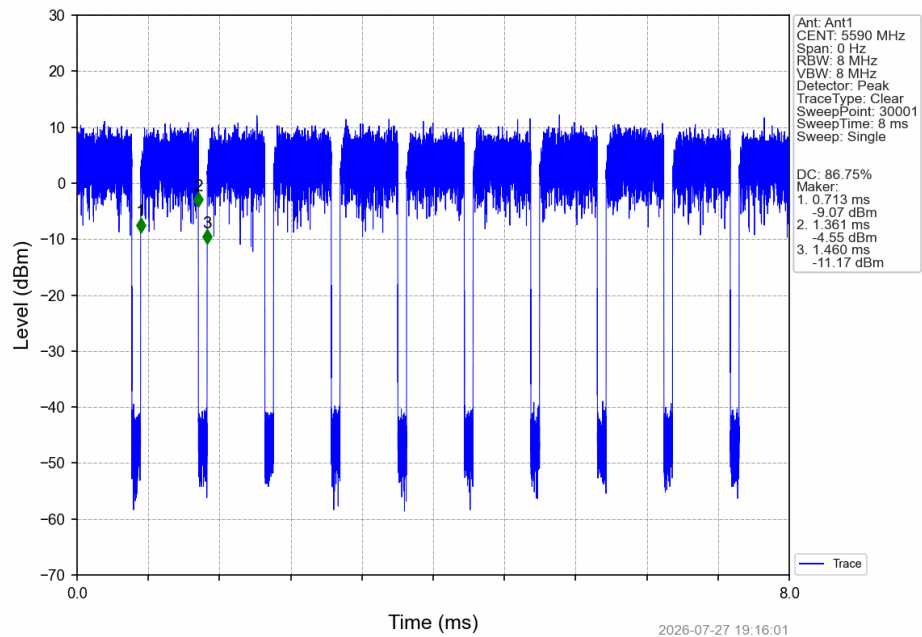
# 802.11n(HT40)\_HCH\_5310MHz\_Ant1\_NTN



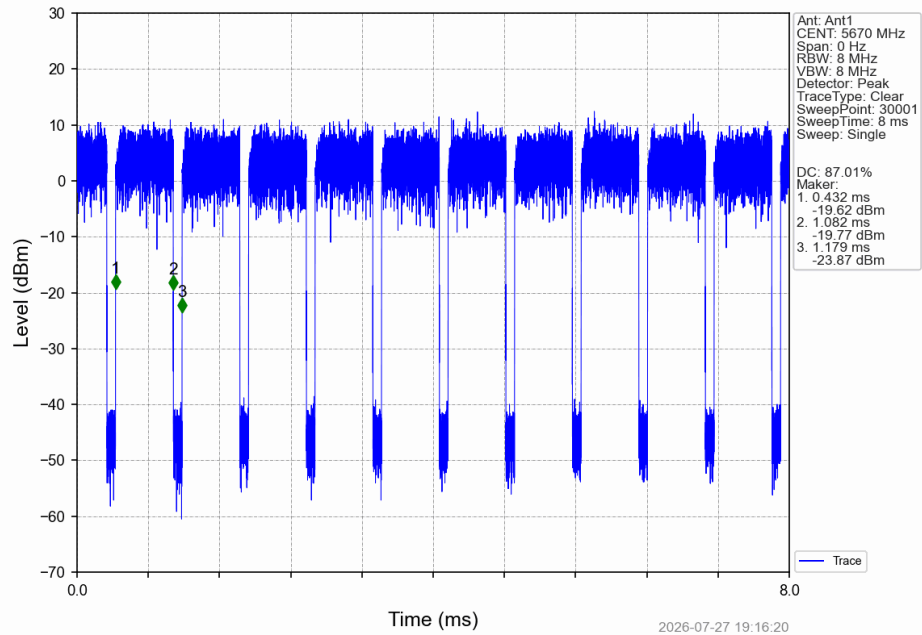
# 802.11n(HT40) LCH 5510MHz Ant1 NTN



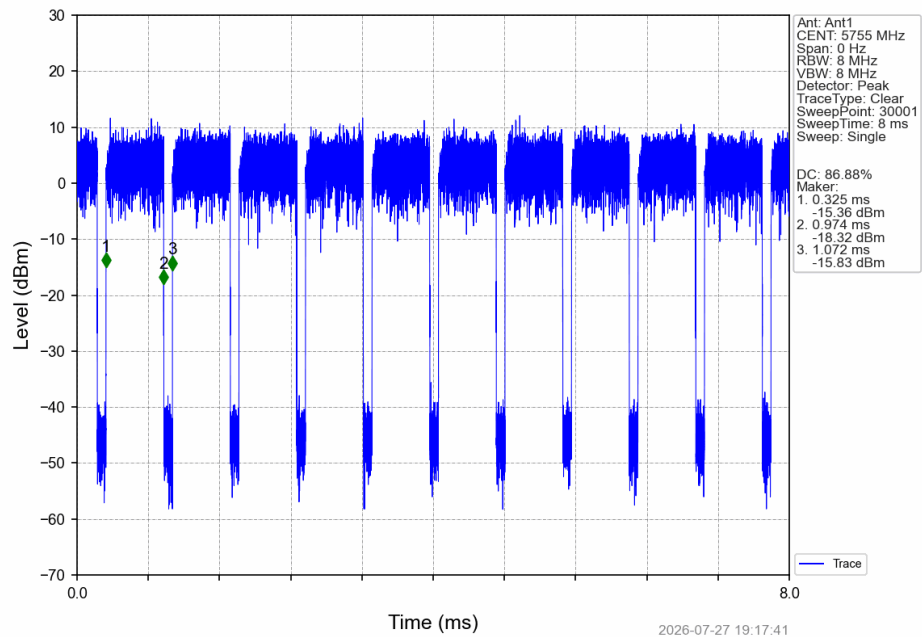
# 802.11n(HT40)\_MCH\_5590MHz\_Ant1\_NTN



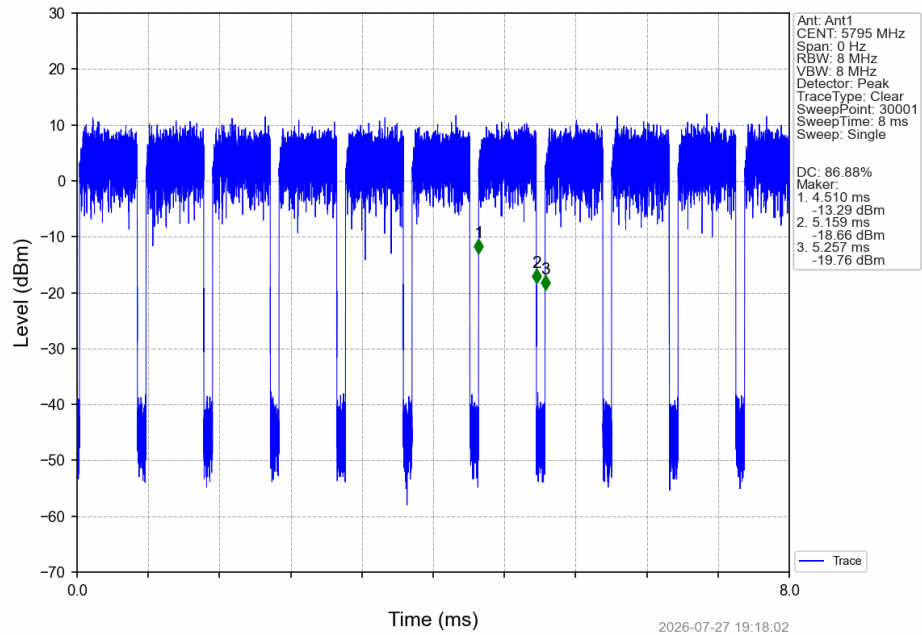
# 802.11n(HT40) HCH 5670MHz Ant1 NTN



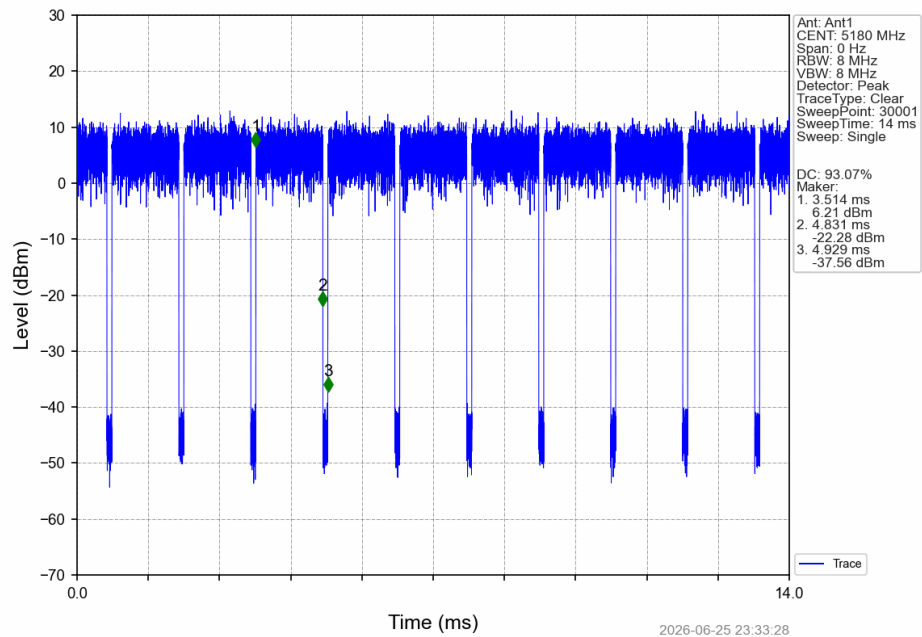
# 802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTN



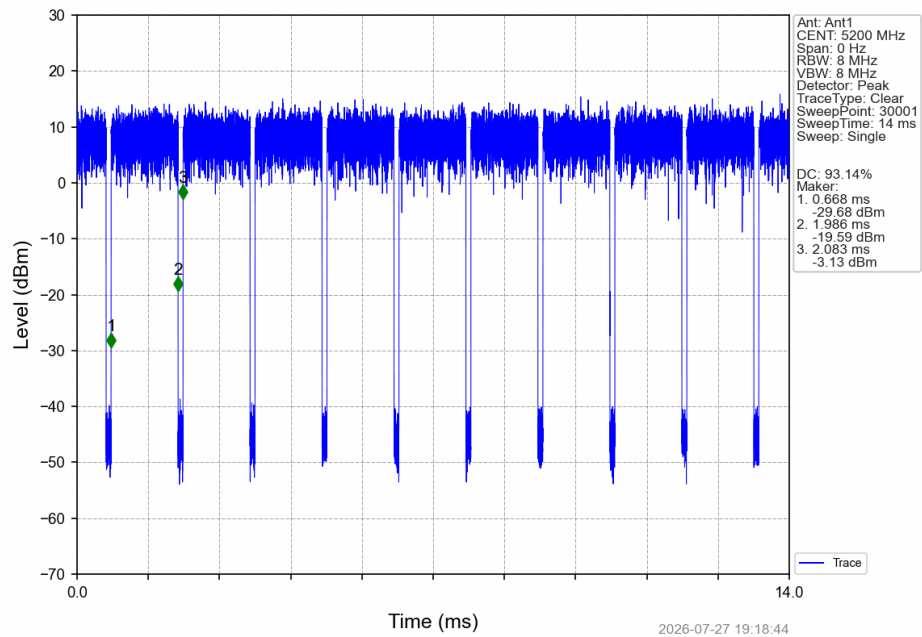
# 802.11n(HT40) HCH 5795MHz Ant1 NTN



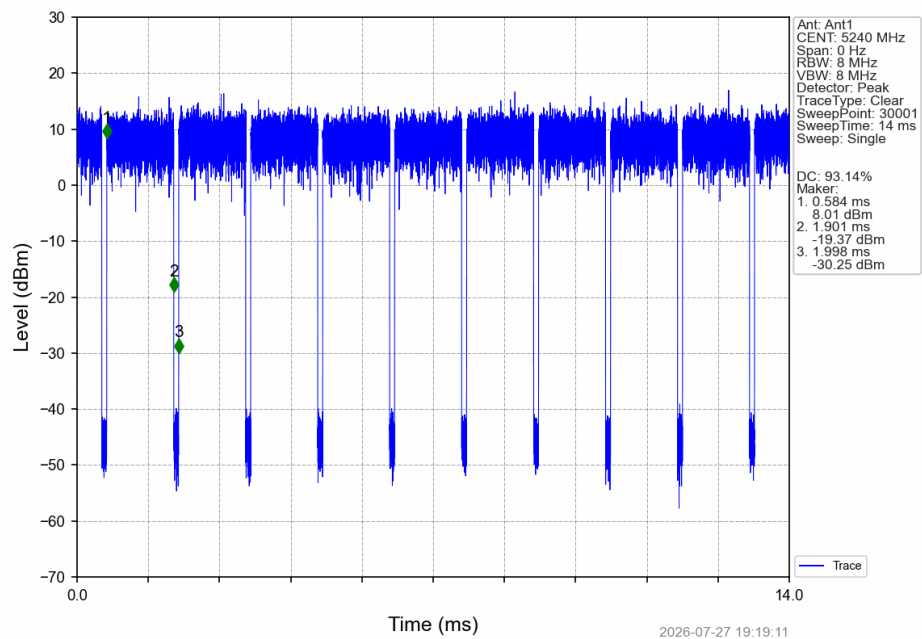
# 802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTN



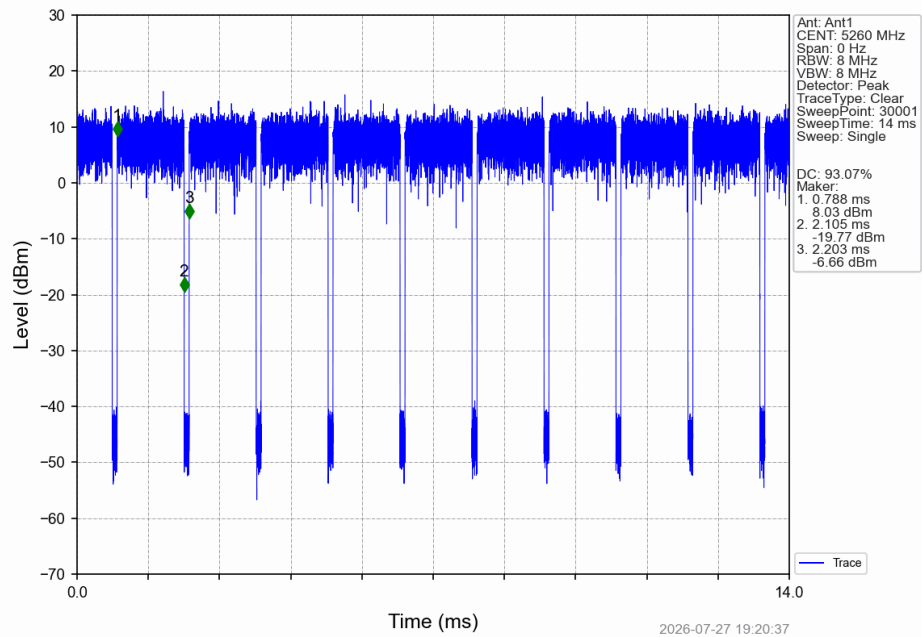
# 802.11ac(VHT20) MCH 5200MHz Ant1 NTN



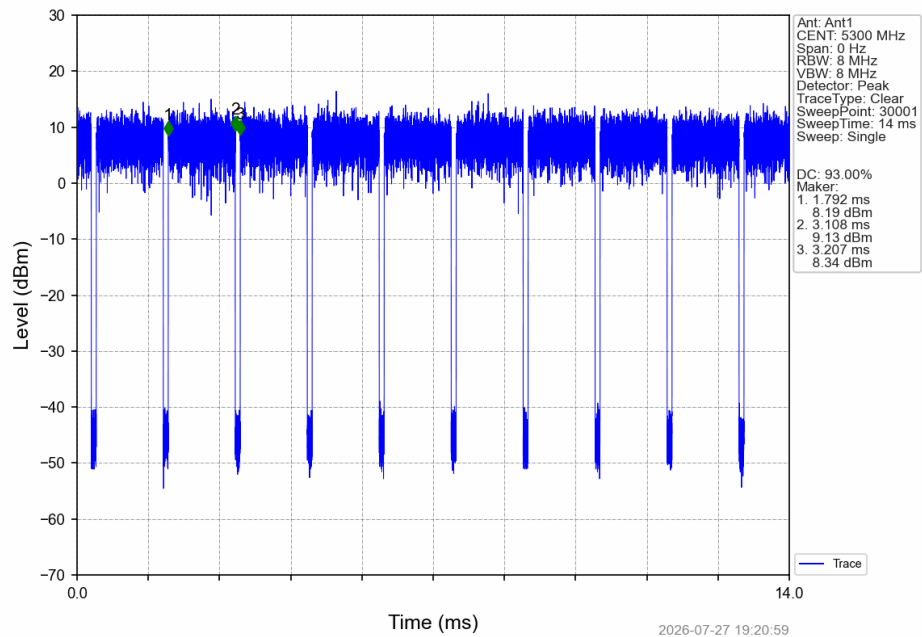
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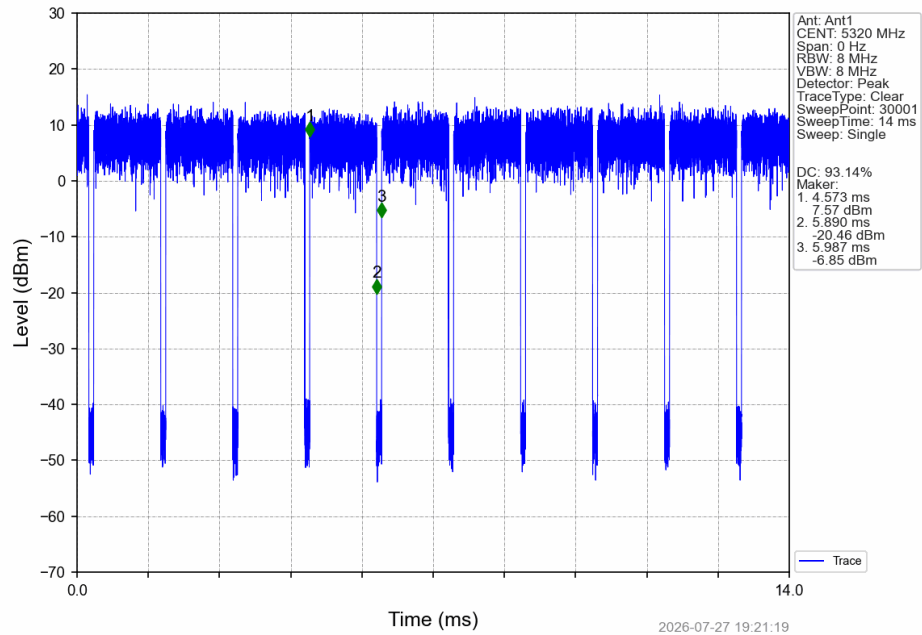
# 802.11ac(VHT20) LCH 5260MHz Ant1 NTN



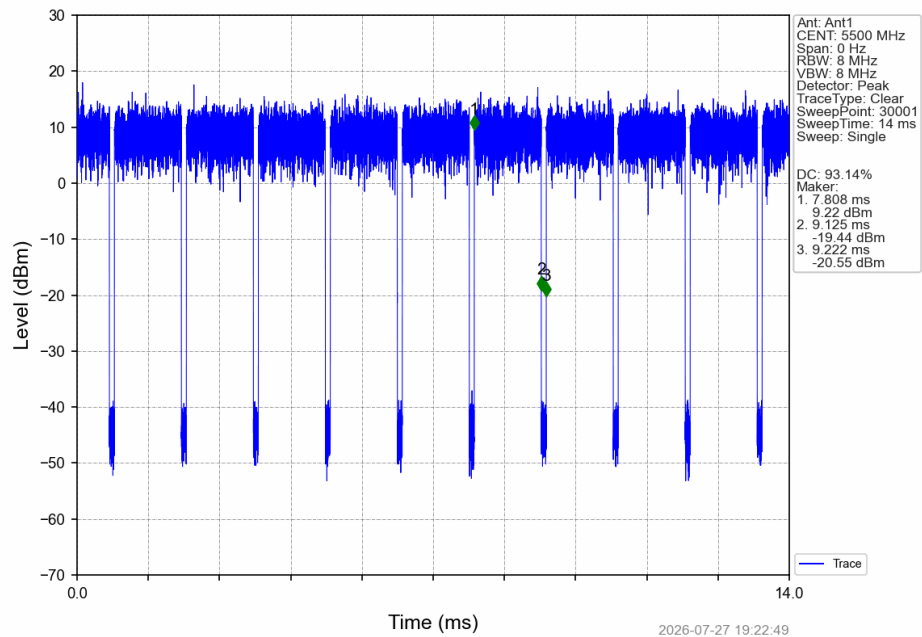
# 802.11ac(VHT20) MCH 5300MHz Ant1 NTN



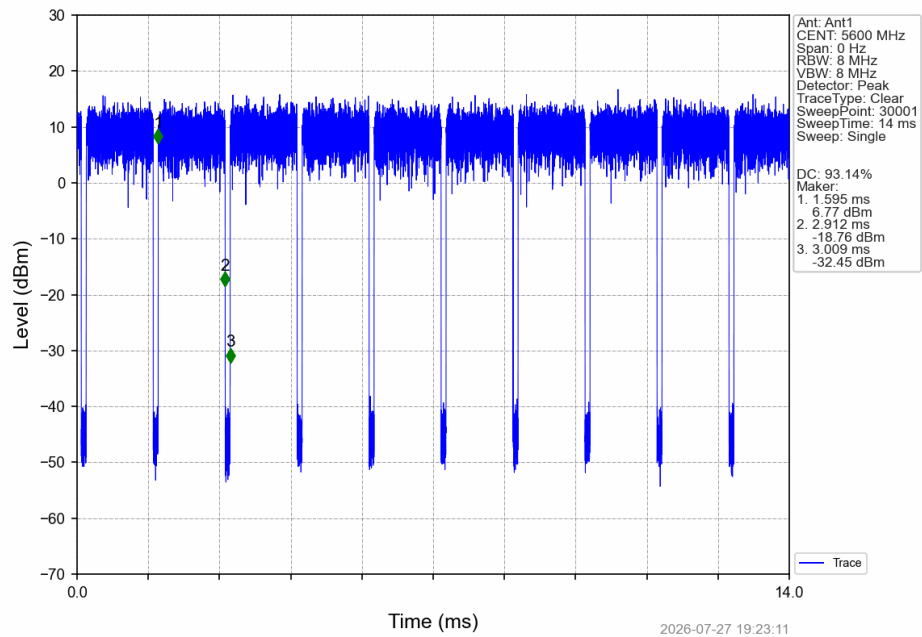
# 802.11ac(VHT20) HCH 5320MHz Ant1 NTN



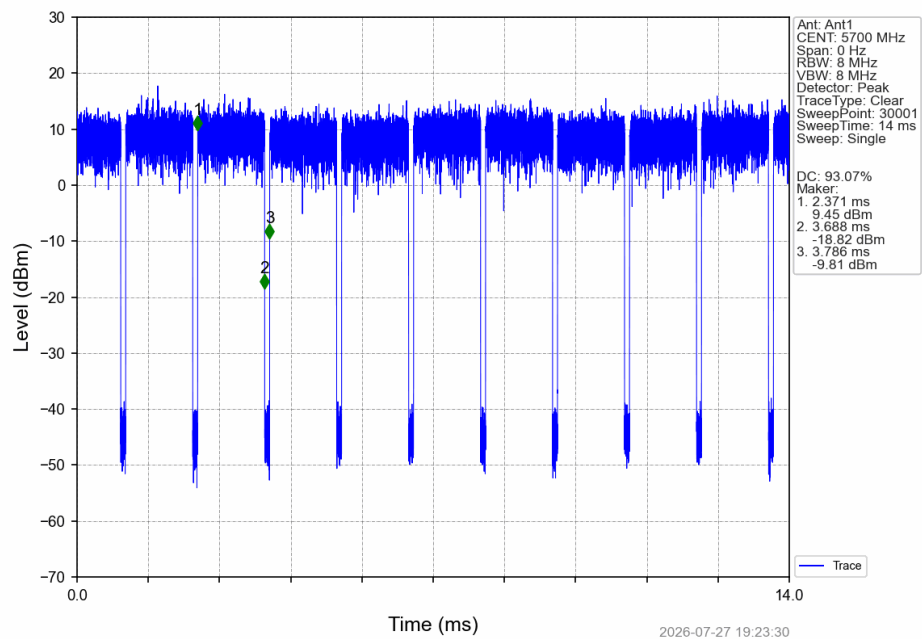
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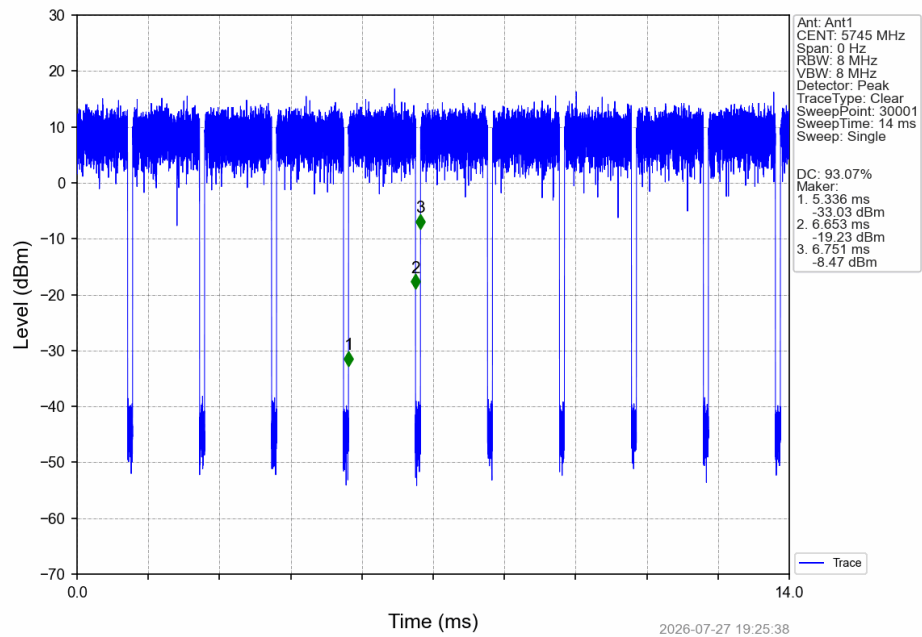
# 802.11ac(VHT20) MCH 5600MHz Ant1 NTN



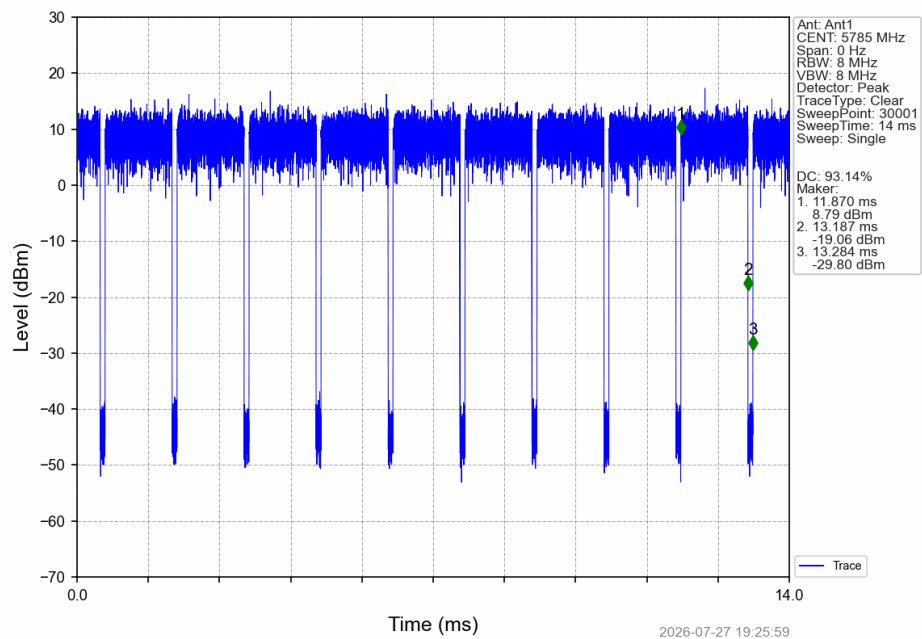
# 802.11ac(VHT20)\_HCH\_5700MHz\_Ant1\_NTN



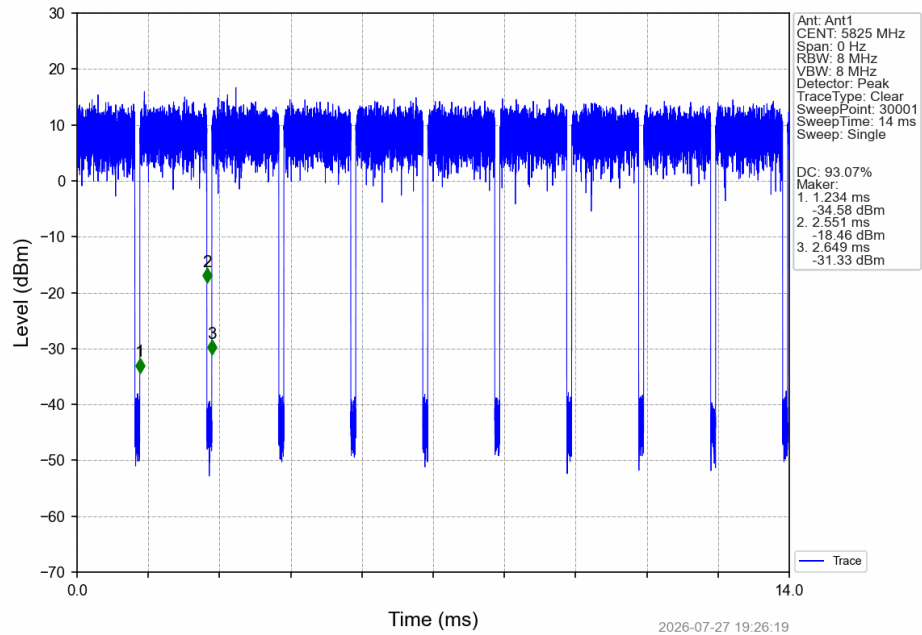
# 802.11ac(VHT20) LCH\_5745MHz\_Ant1\_NTNV



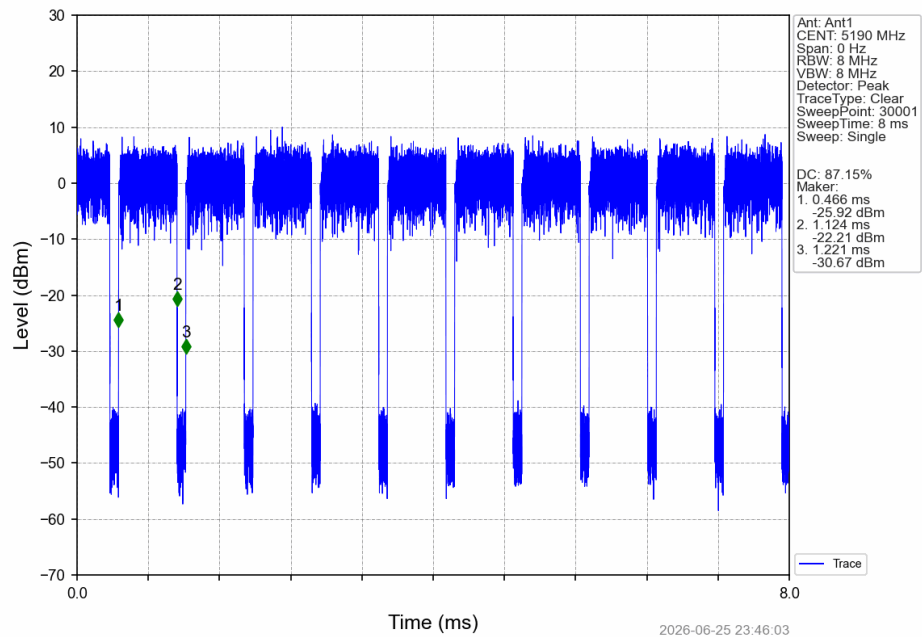
# 802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



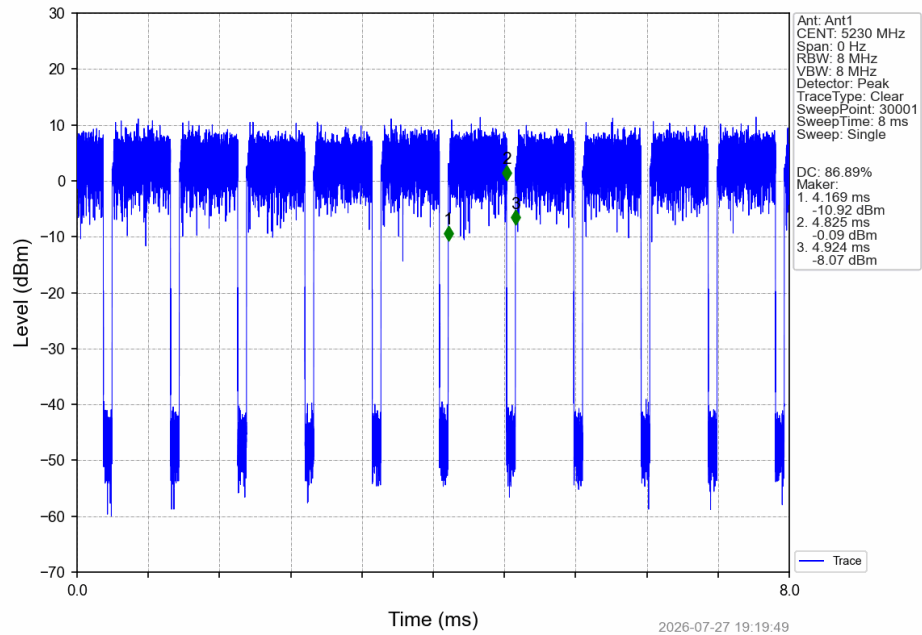
# 802.11ac(VHT20) HCH 5825MHz Ant1 NTN



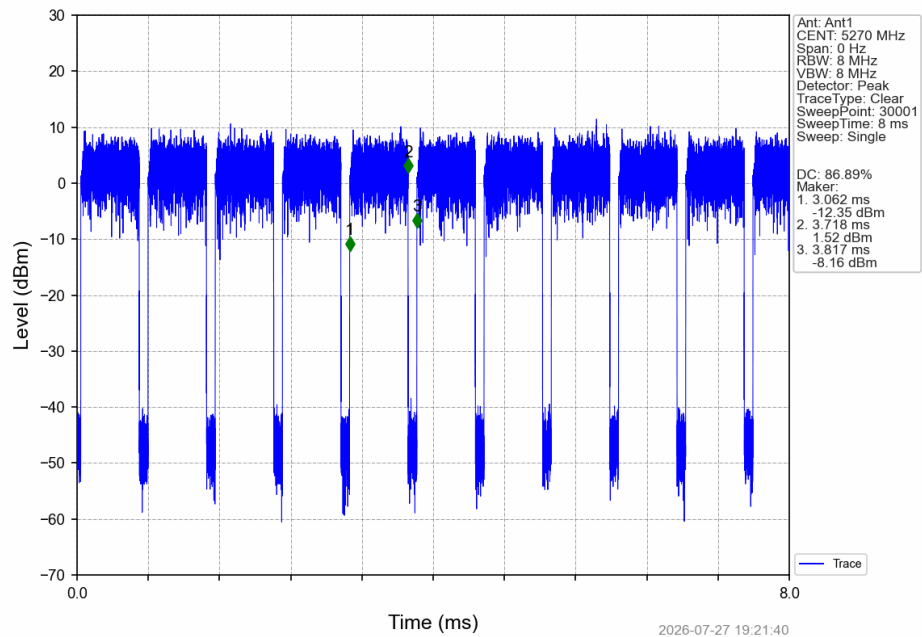
# 802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTN



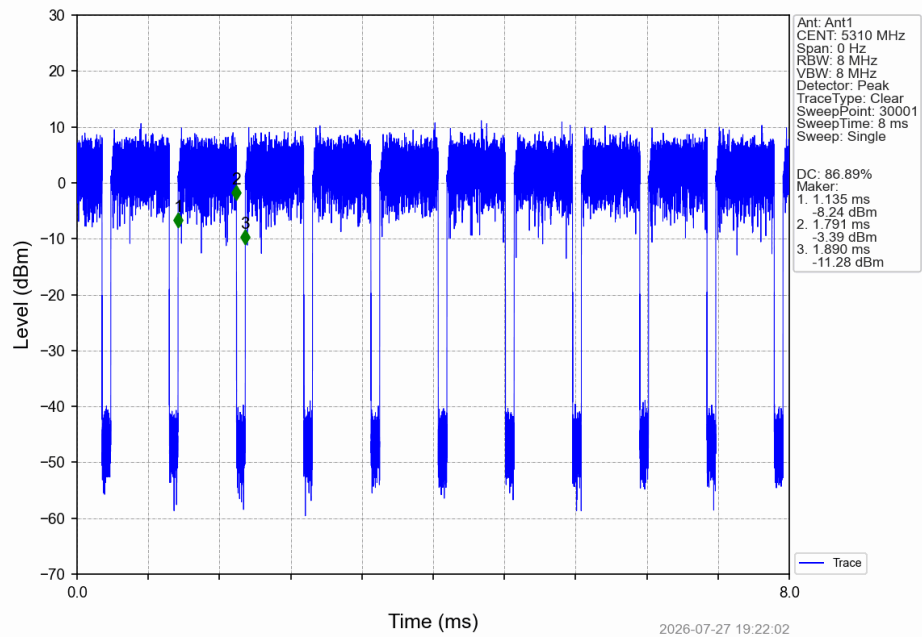
# 802.11ac(VHT40) HCH 5230MHz Ant1 NTN



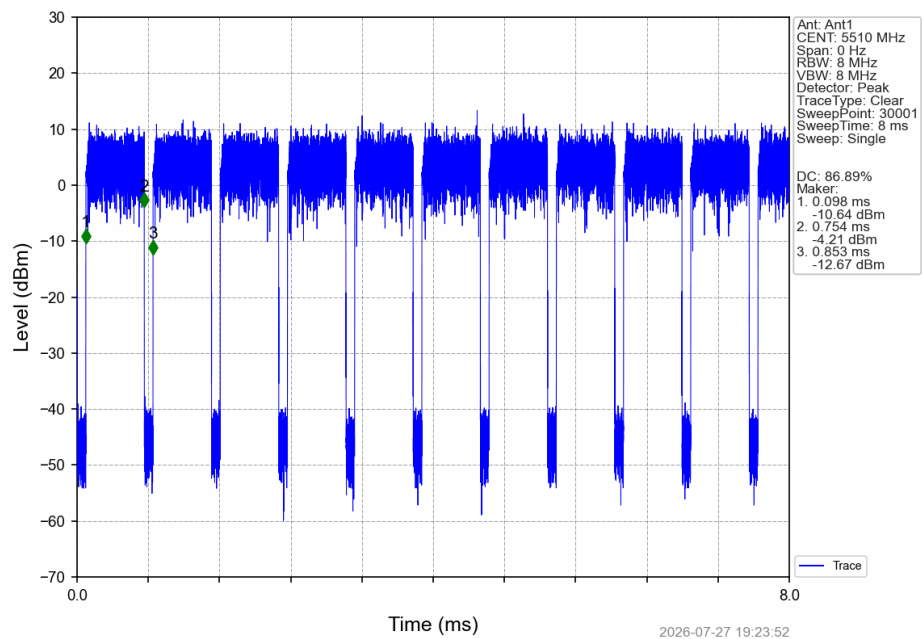
# 802.11ac(VHT40)\_LCH 5270MHz Ant1 NTN



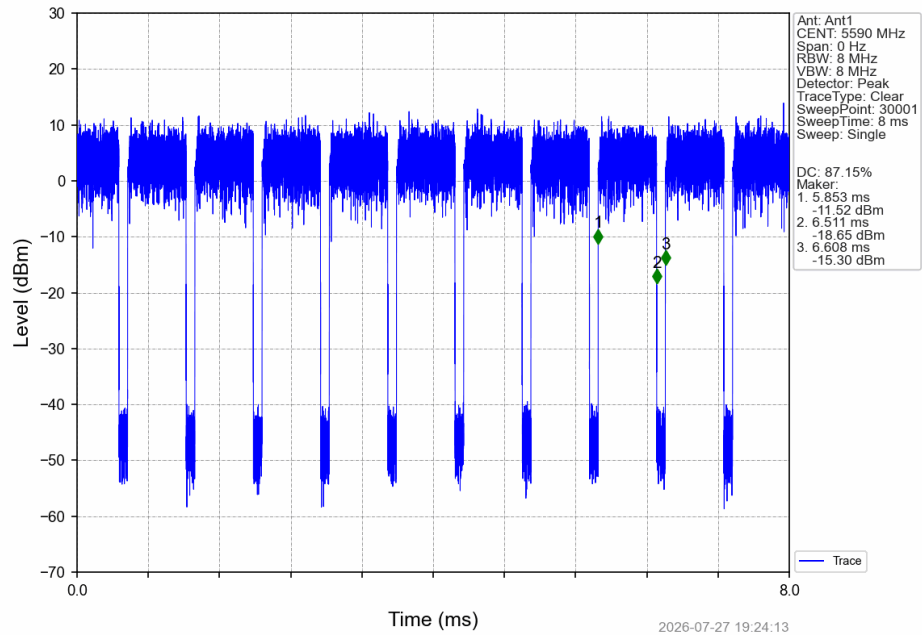
# 802.11ac(VHT40) HCH 5310MHz Ant1 NTN



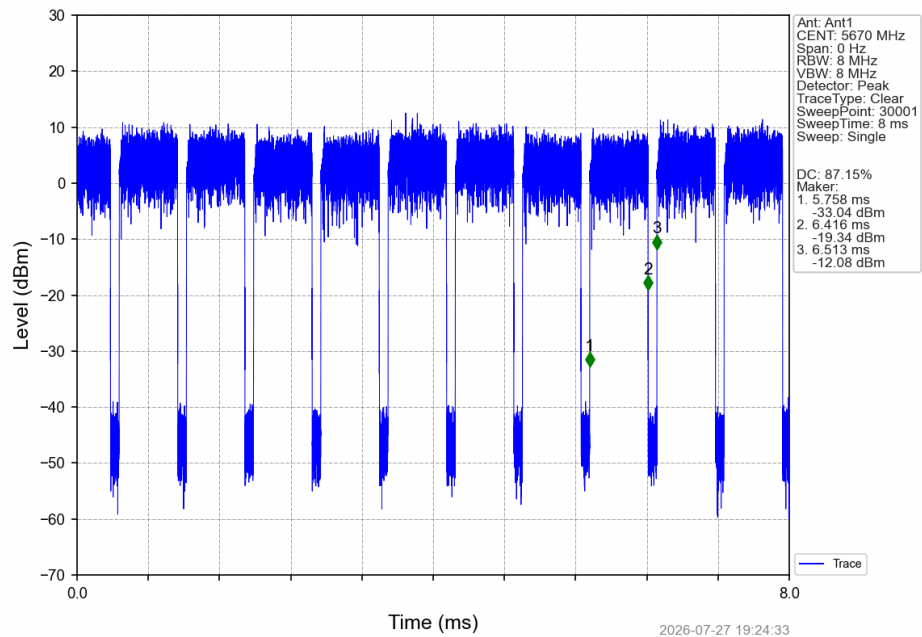
# 802.11ac(VHT40)\_LCH\_5510MHz\_Ant1\_NTN



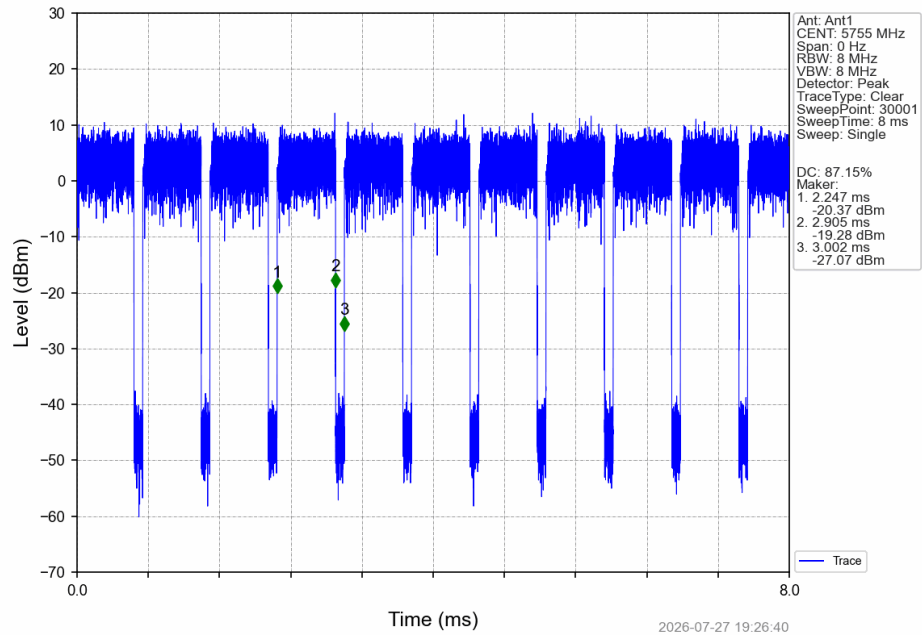
# 802.11ac(VHT40) MCH 5590MHz Ant1 NTN



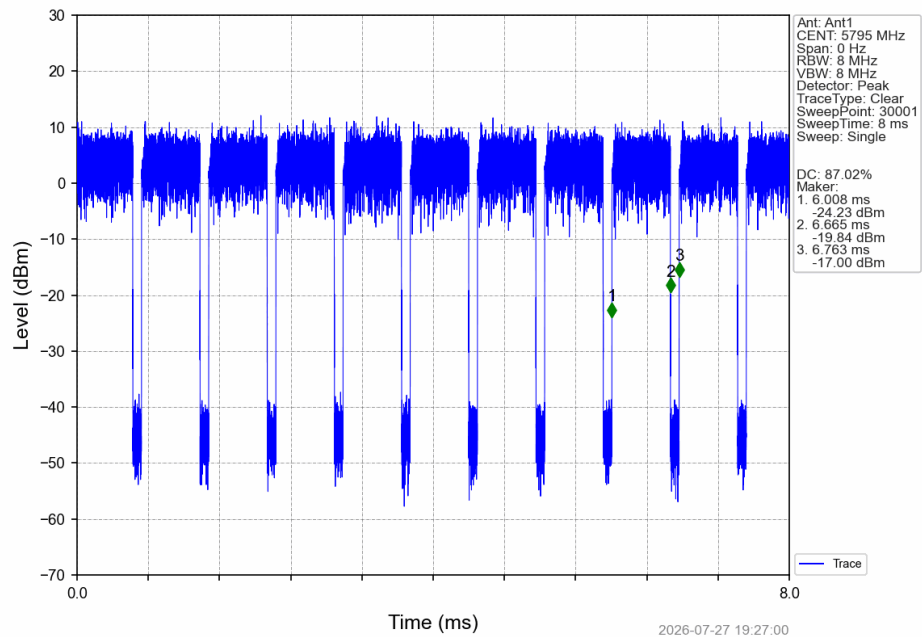
# 802.11ac(VHT40)\_HCH\_5670MHz\_Ant1\_NTN



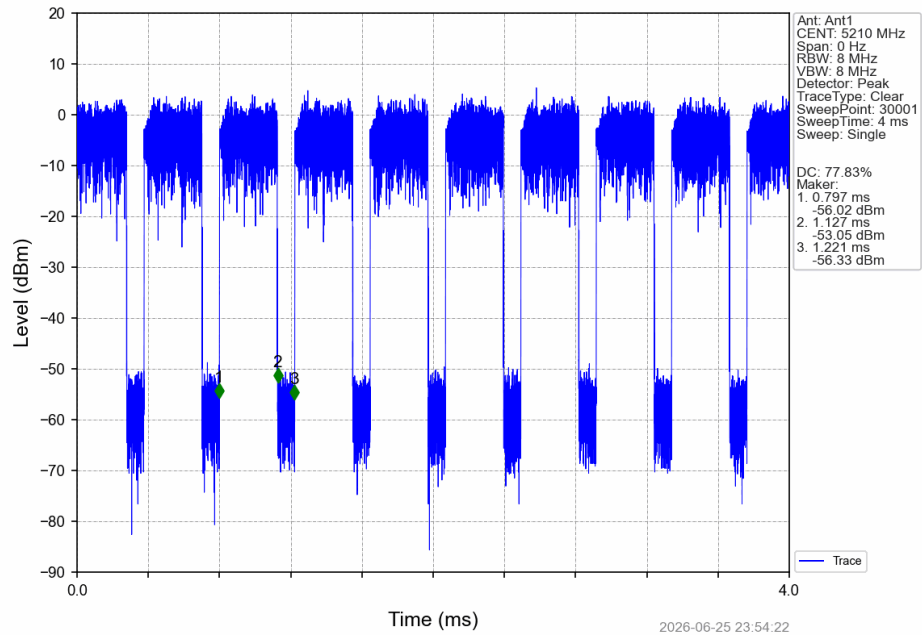
# 802.11ac(VHT40) LCH 5755MHz Ant1 NTN



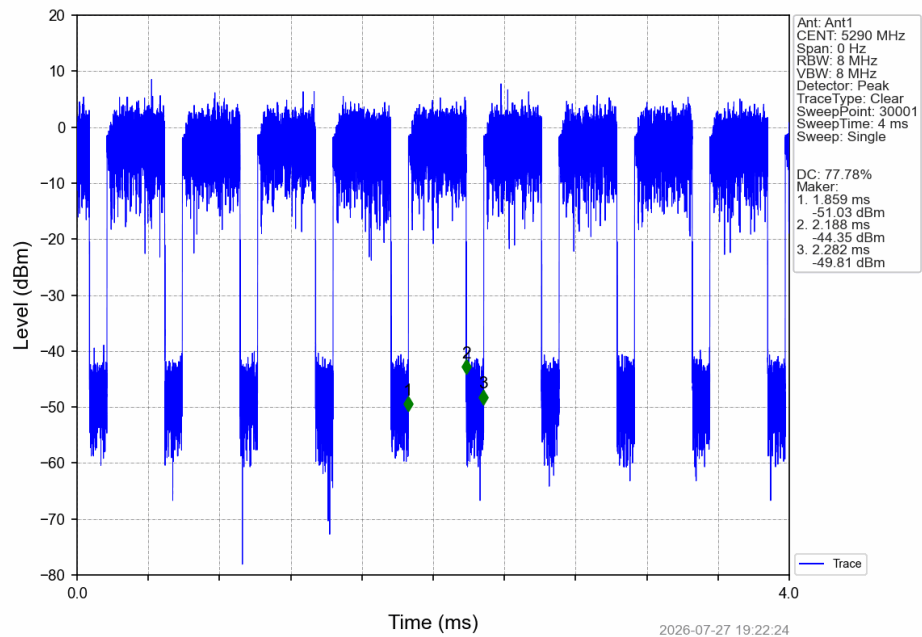
# 802.11ac(VHT40) HCH 5795MHz Ant1 NTN



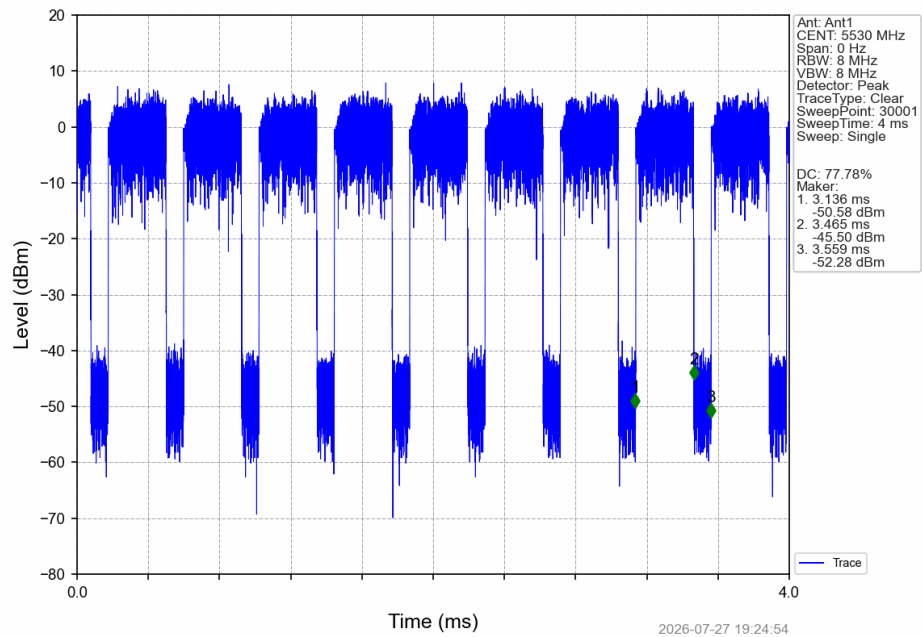
# 802.11ac(VHT80) MCH 5210MHz Ant1 NTN



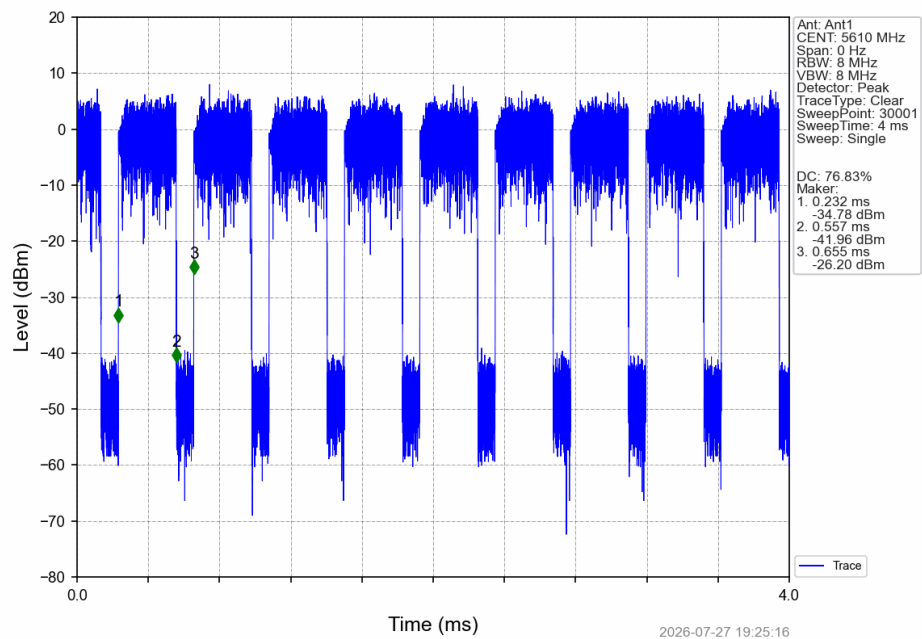
# 802.11ac(VHT80) MCH 5290MHz Ant1 NTN



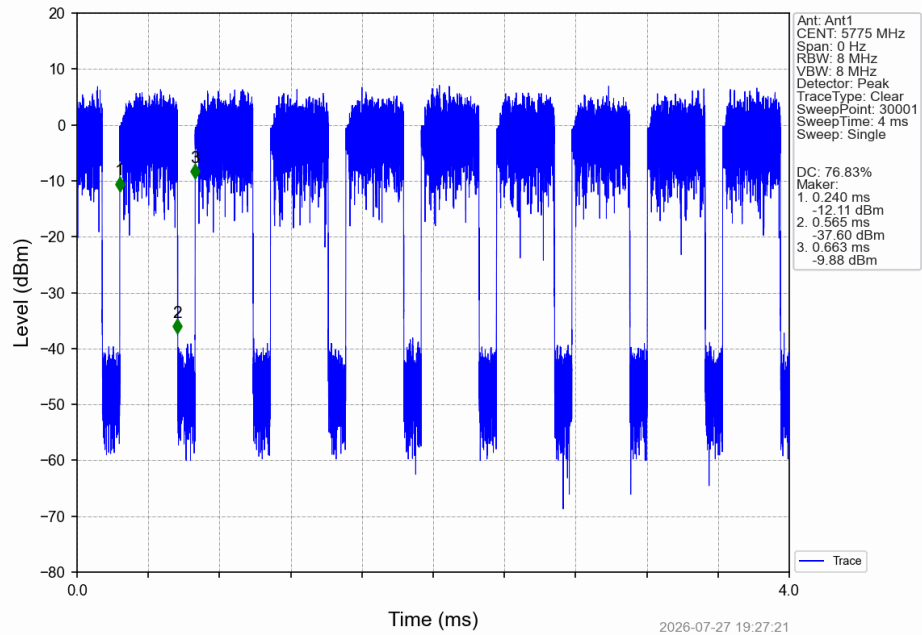
# 802.11ac(VHT80) LCH 5530MHz Ant1 NTN



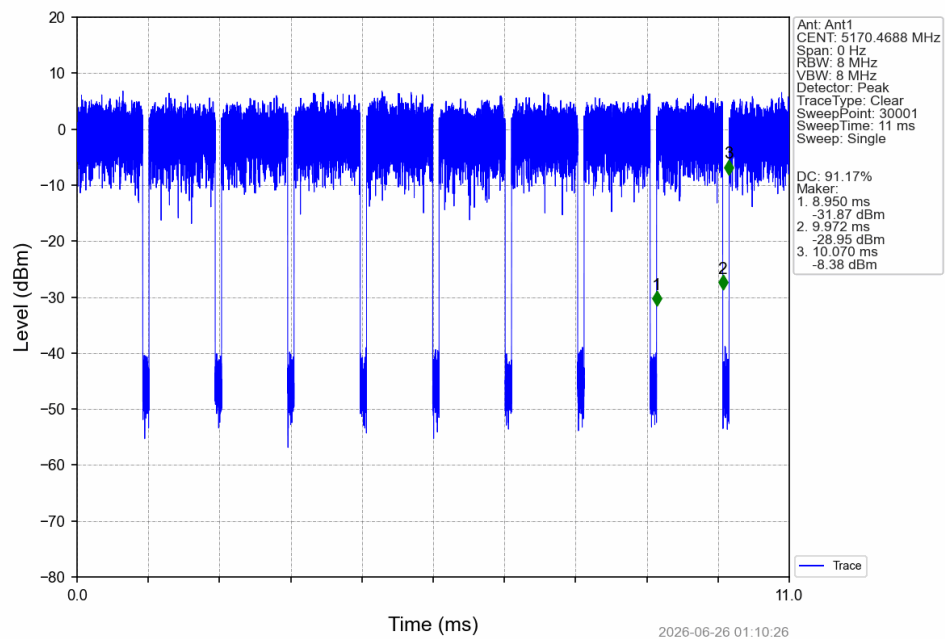
# 802.11ac(VHT80)\_HCH\_5610MHz\_Ant1\_NTN



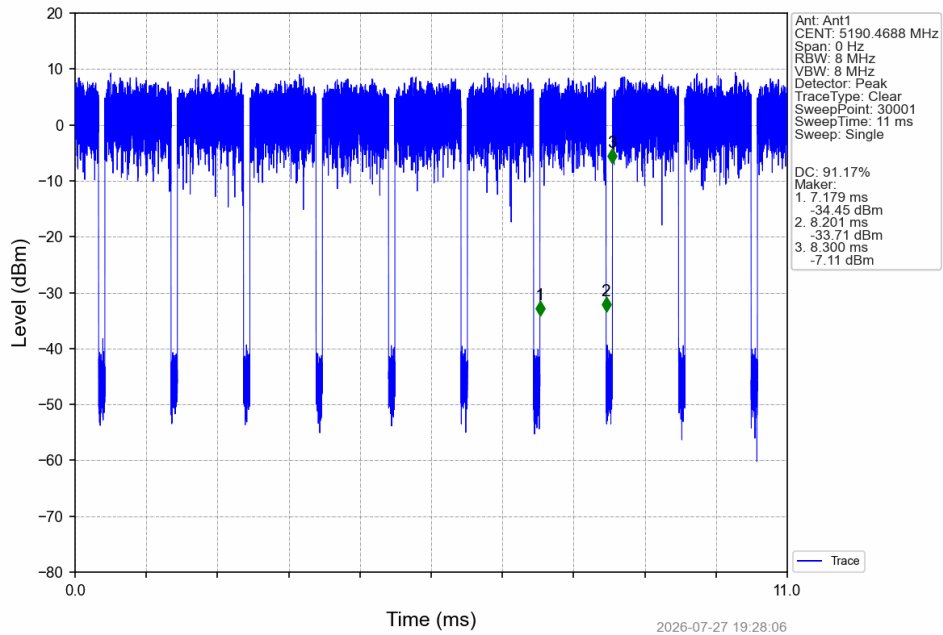
# 802.11ac(VHT80) MCH 5775MHz Ant1 NTN



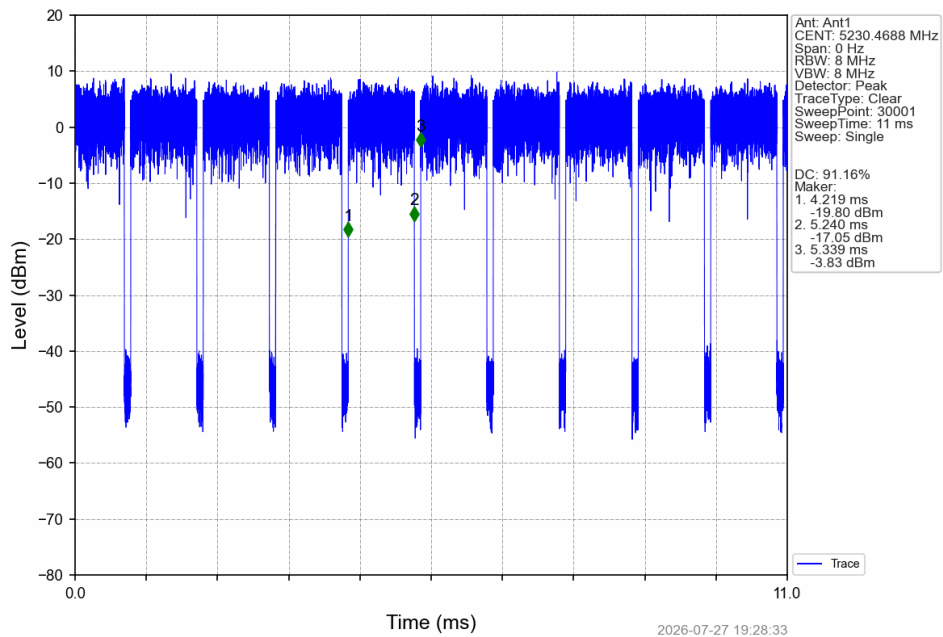
# 802.11ax(HEW20) LCH 5180MHz SU / Ant1 NTN



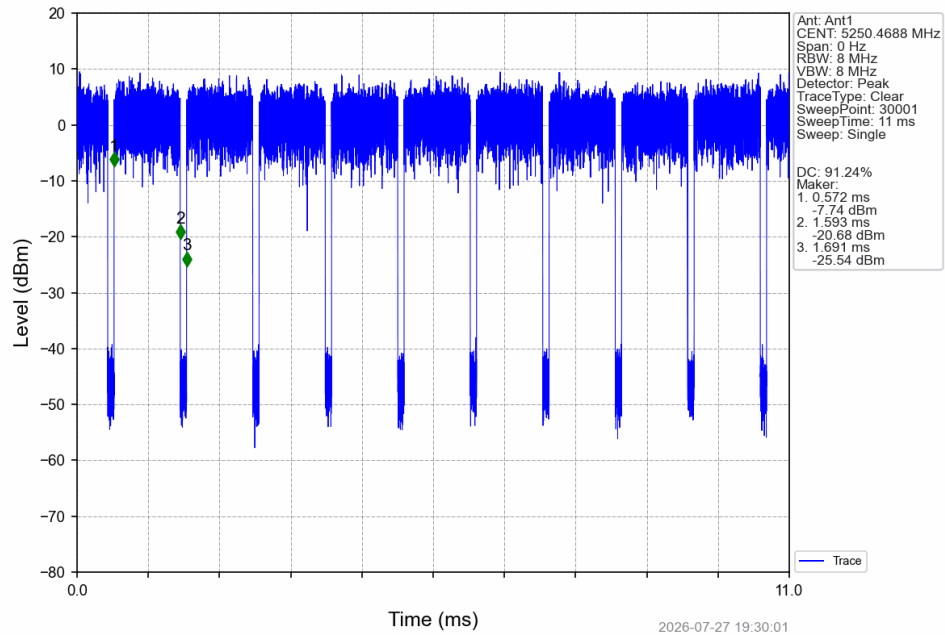
802.11ax(HEW20) MCH 5200MHz SU / Ant1 NTN



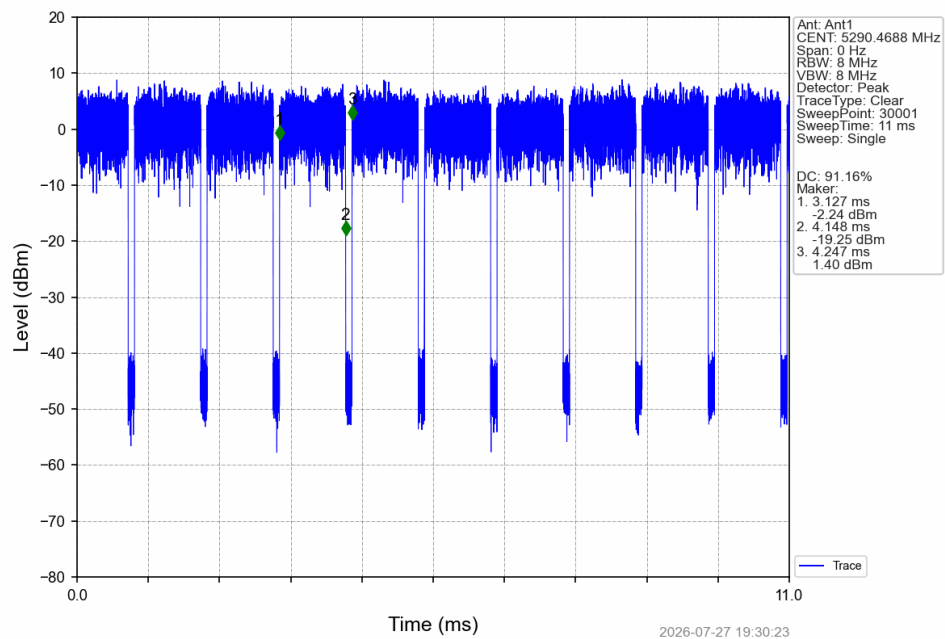
802.11ax(HEW20) HCH 5240MHz SU / Ant1 NTN



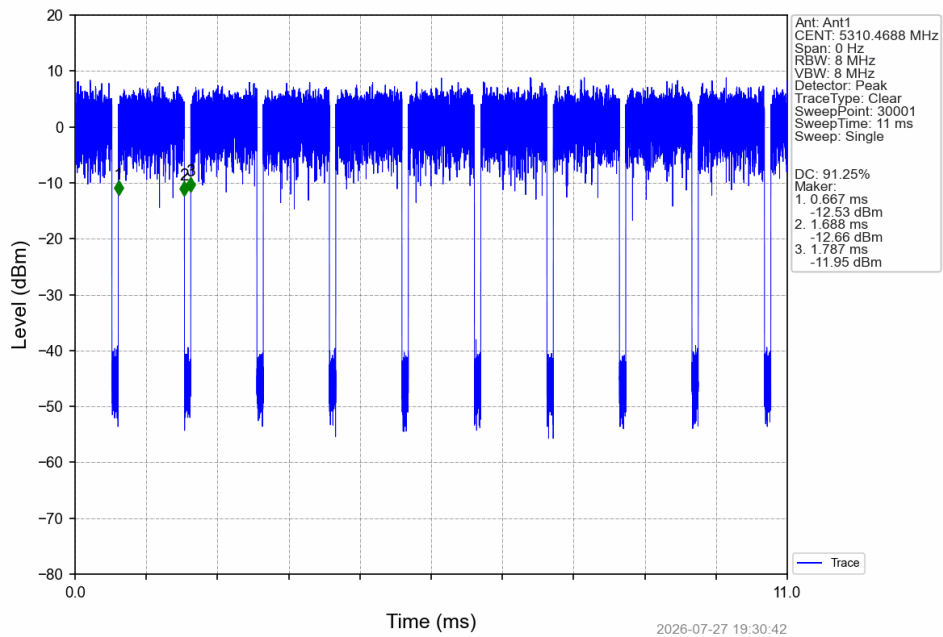
# 802.11ax(HEW20) LCH 5260MHz SU / Ant1 NTN



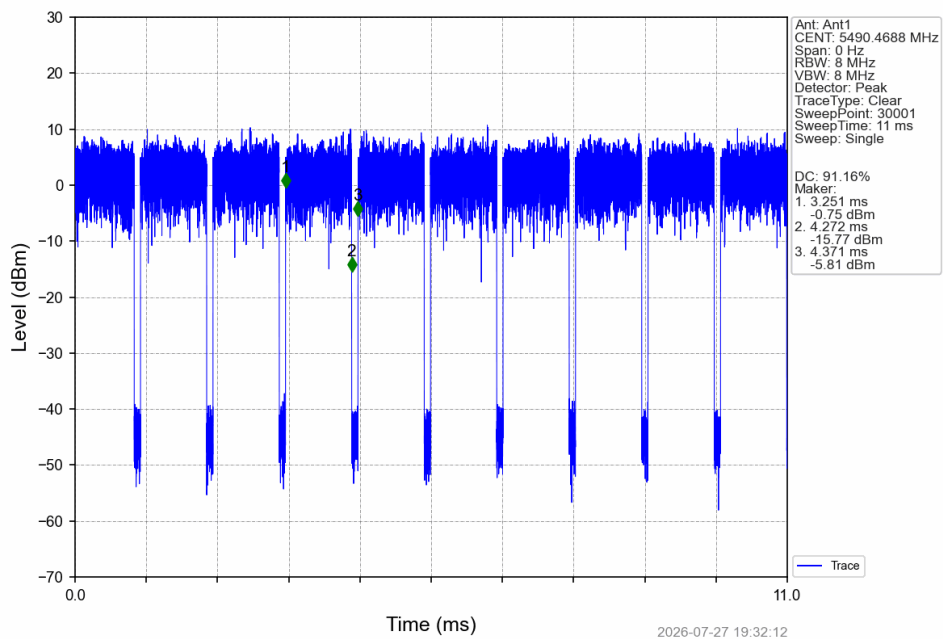
# 802.11ax(HEW20) MCH 5300MHz SU / Ant1 NTN



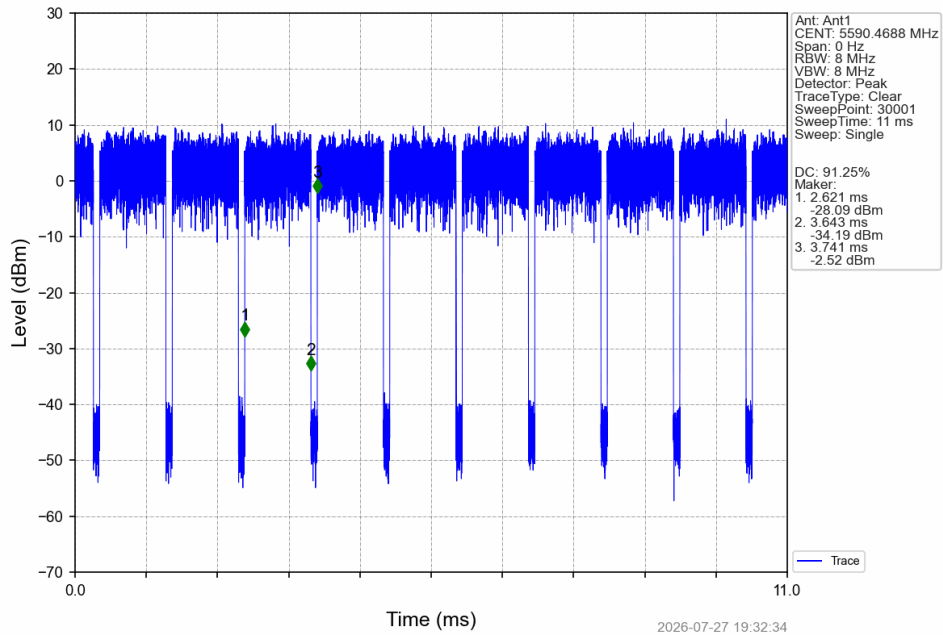
# 802.11ax(HEW20) HCH 5320MHz SU / Ant1 NTN



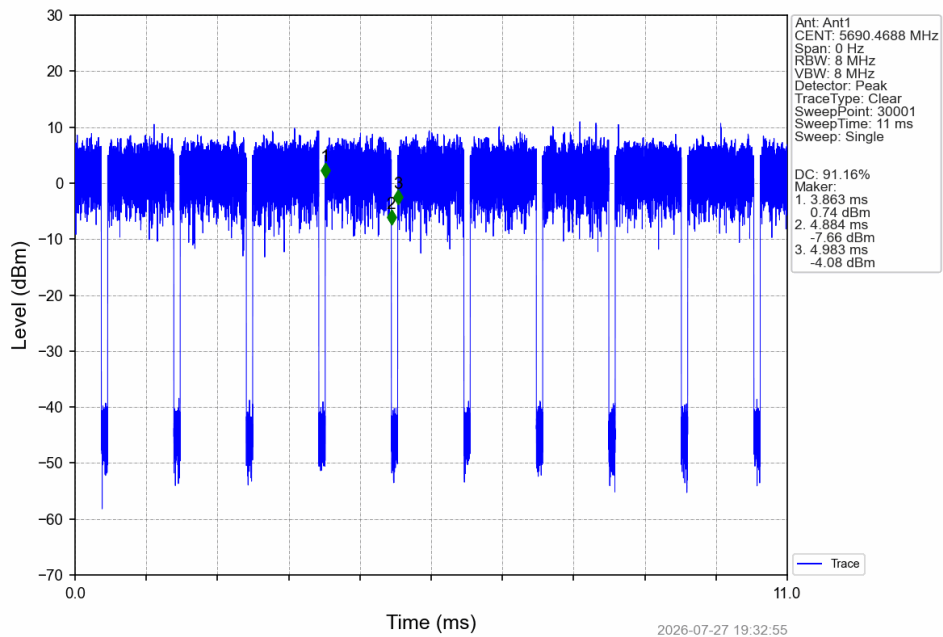
# 802.11ax(HEW20) LCH 5500MHz SU / Ant1 NTN



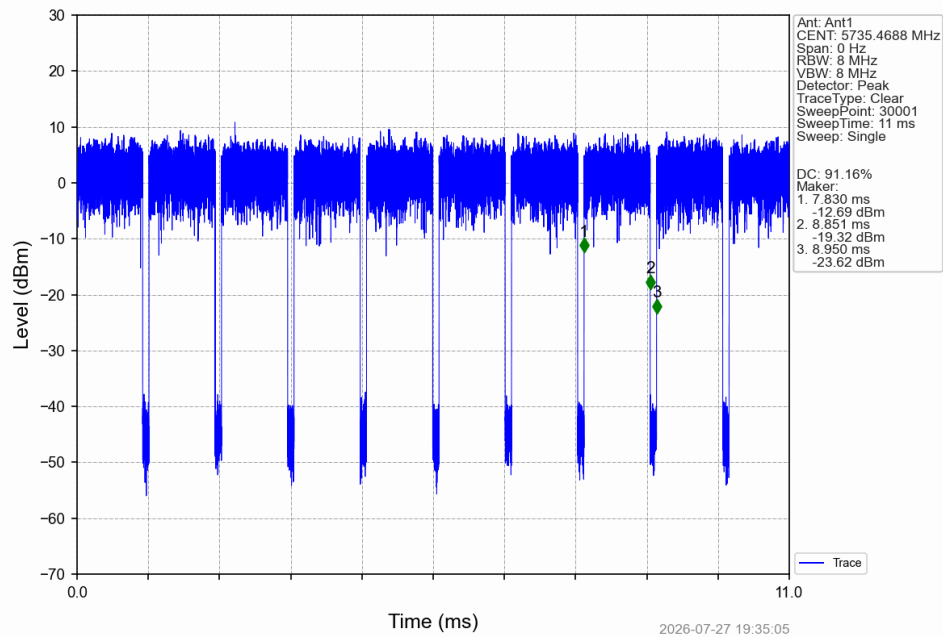
802.11ax(HEW20) MCH 5600MHz SU / Ant1 NTN



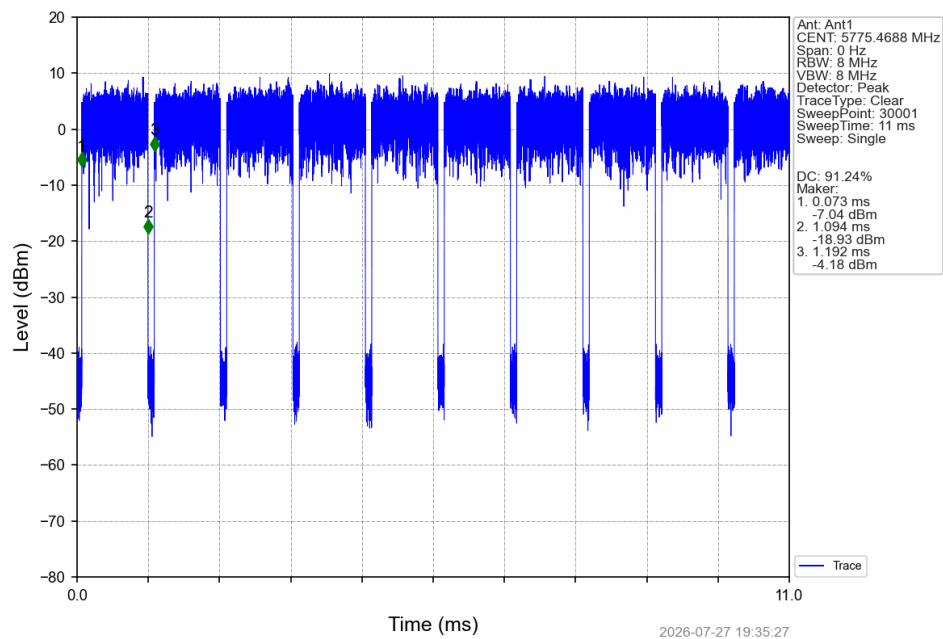
802.11ax(HEW20) HCH 5700MHz SU / Ant1 NTN



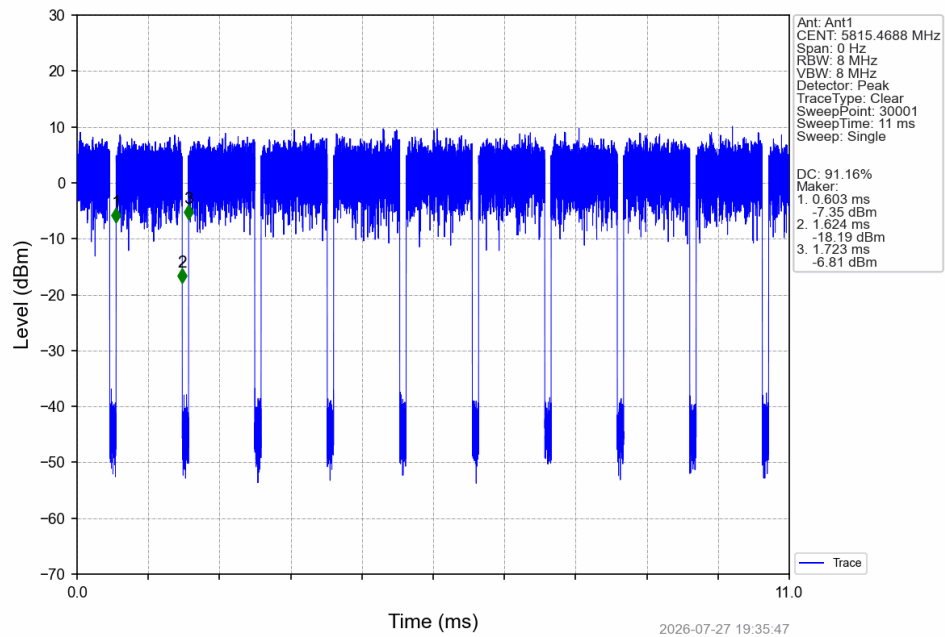
# 802.11ax(HEW20) LCH 5745MHz SU / Ant1 NTN



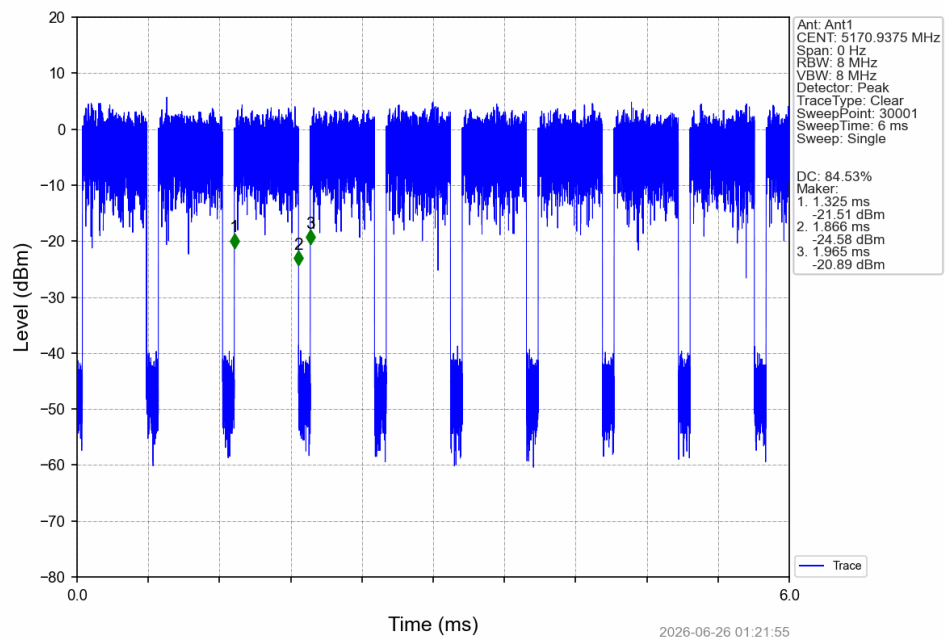
# 802.11ax(HEW20) MCH 5785MHz SU / Ant1 NTN



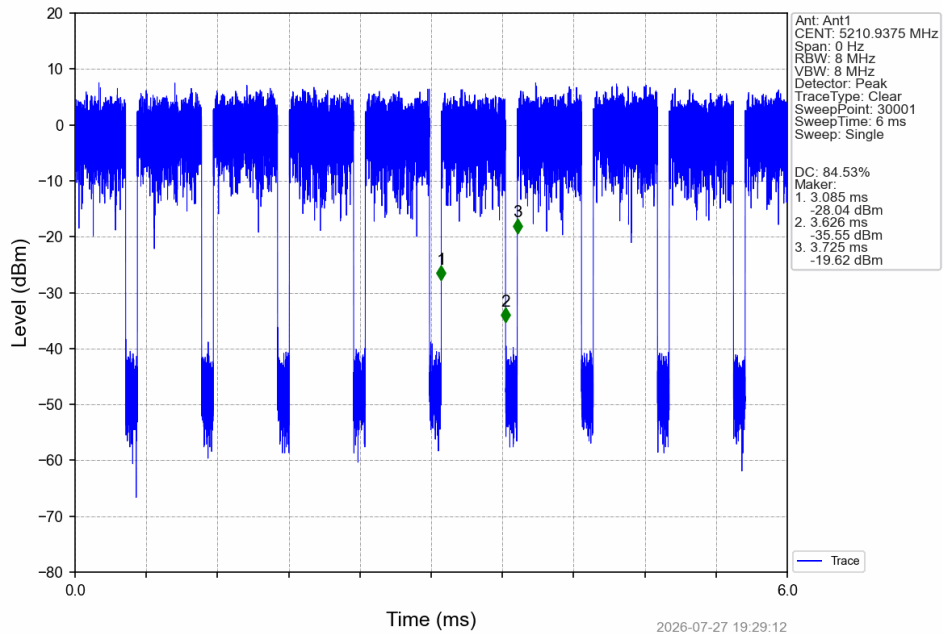
802.11ax(HEW20) HCH 5825MHz SU / Ant1 NTN



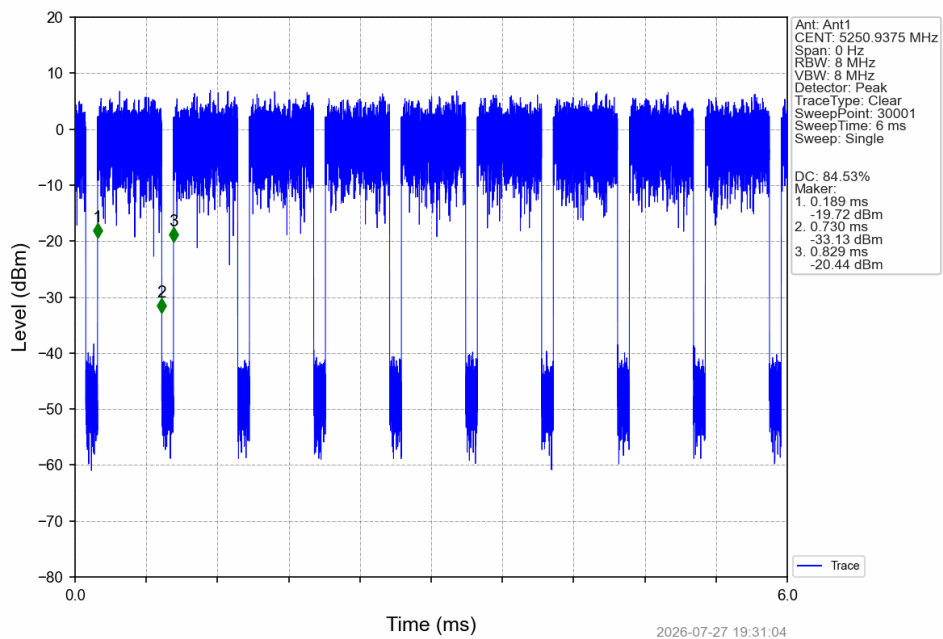
802.11ax(HEW40) LCH 5190MHz SU / Ant1 NTN



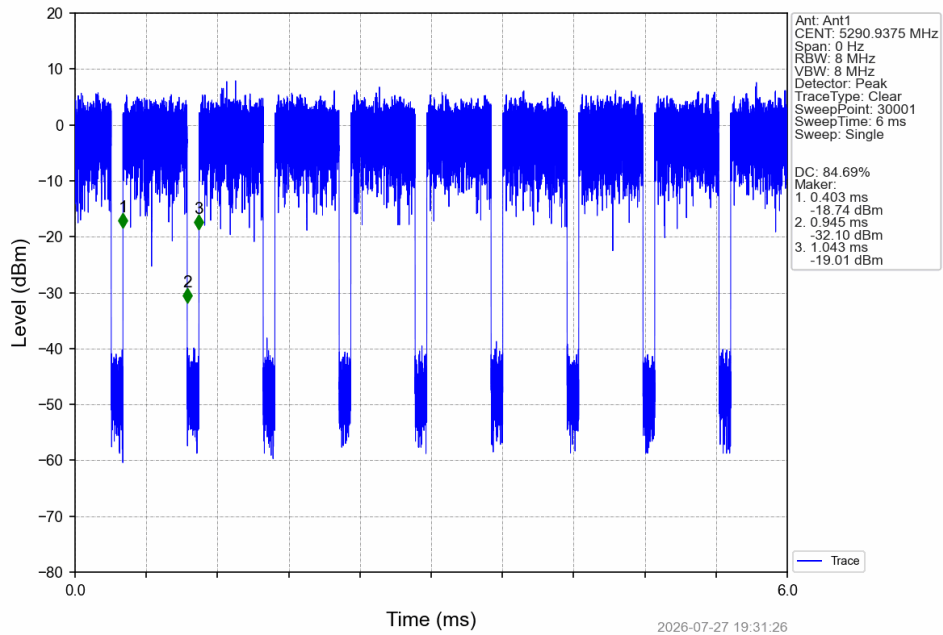
802.11ax(HEW40) HCH 5230MHz SU / Ant1 NTN



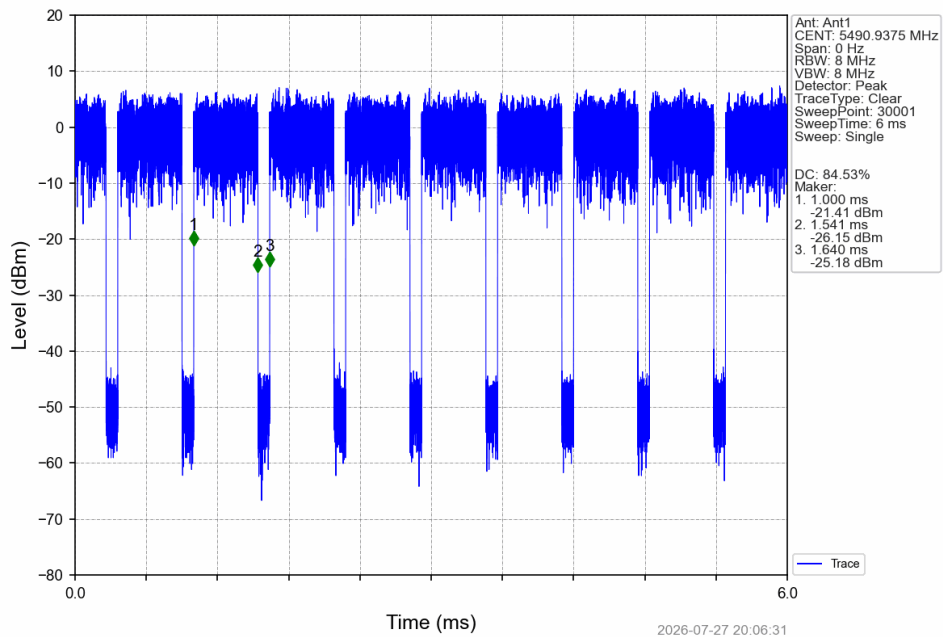
802.11ax(HEW40) LCH 5270MHz SU / Ant1 NTN



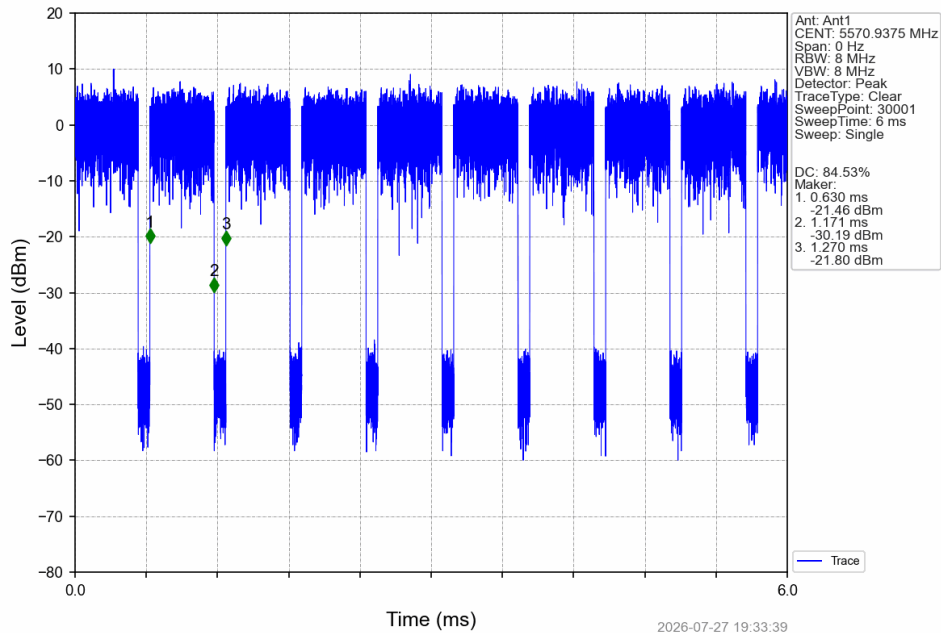
# 802.11ax(HEW40) HCH 5310MHz SU / Ant1 NTN



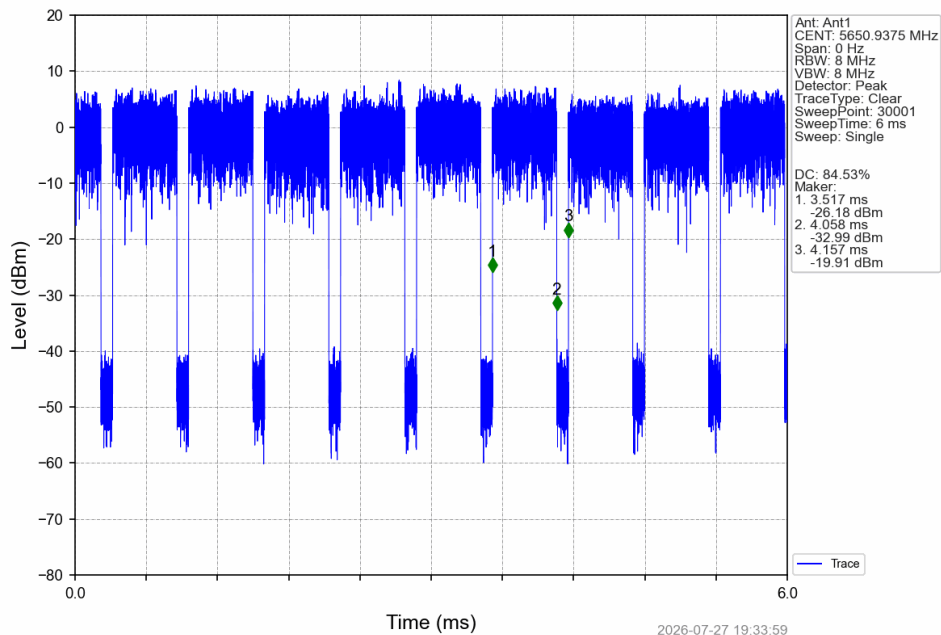
# 802.11ax(HEW40) LCH 5510MHz SU / Ant1 NTN



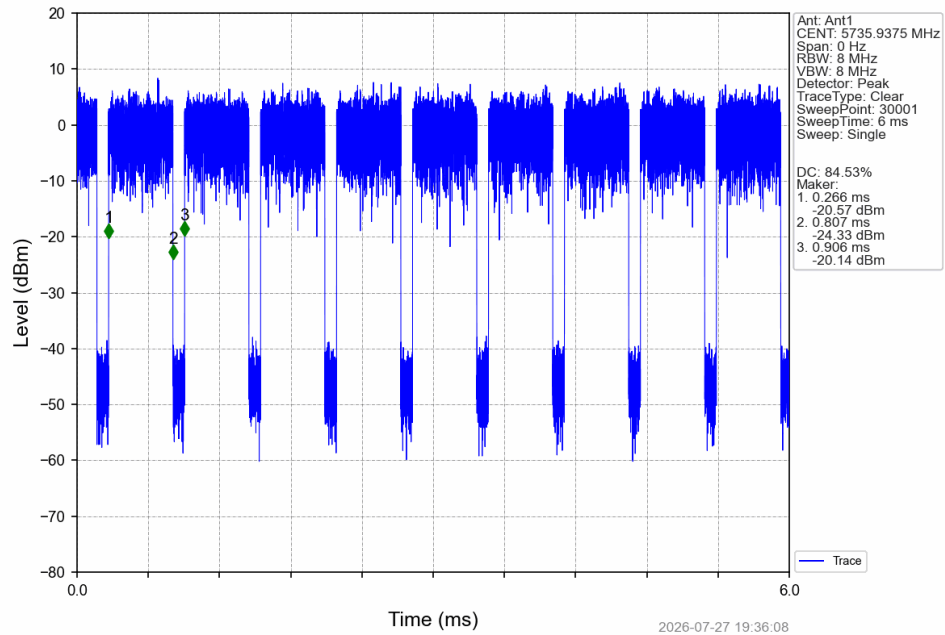
802.11ax(HEW40) MCH 5590MHz SU / Ant1 NTN



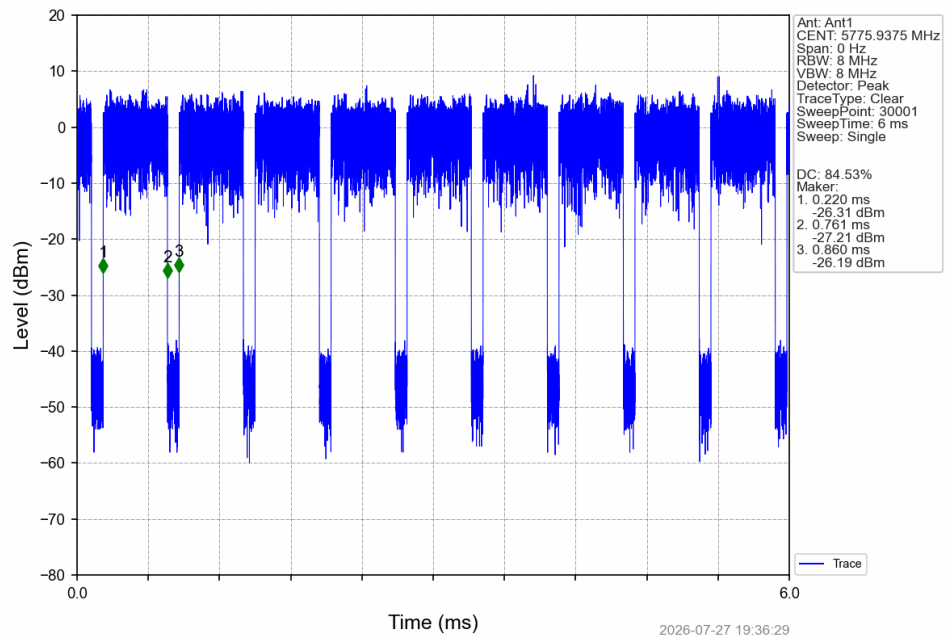
802.11ax(HEW40) HCH 5670MHz SU / Ant1 NTN



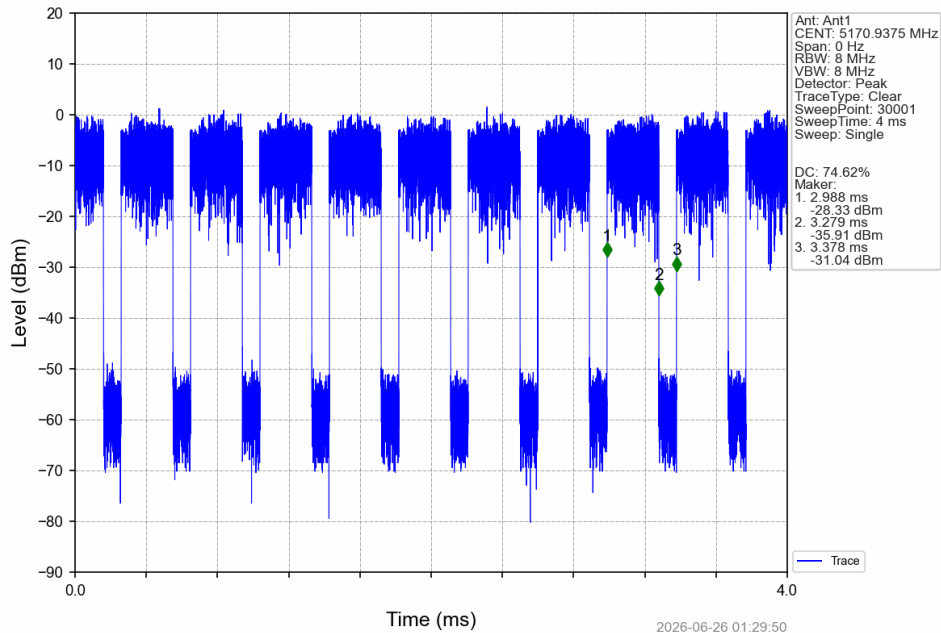
# 802.11ax(HEW40) LCH 5755MHz SU / Ant1 NTN



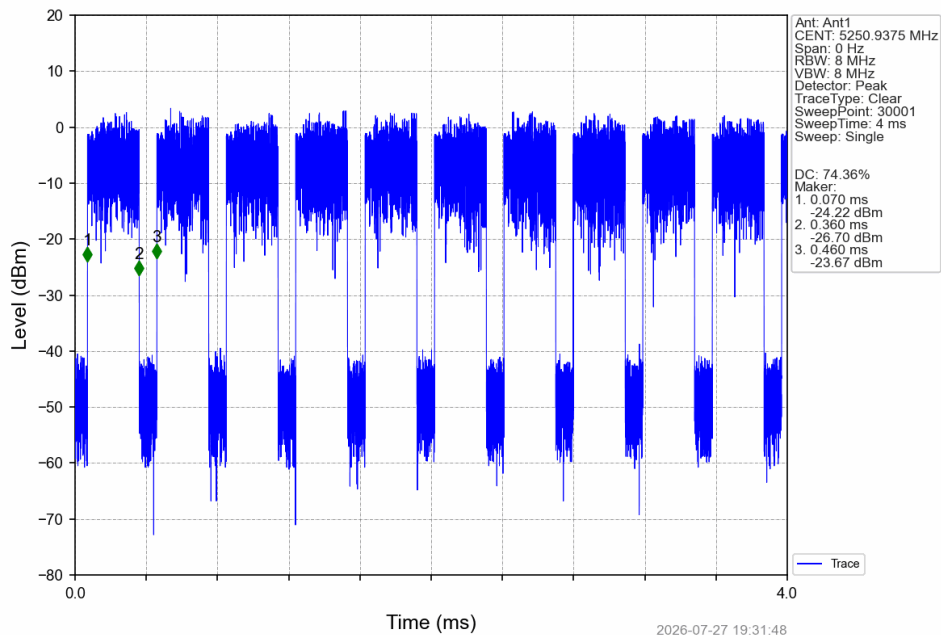
# 802.11ax(HEW40) HCH 5795MHz SU / Ant1 NTN



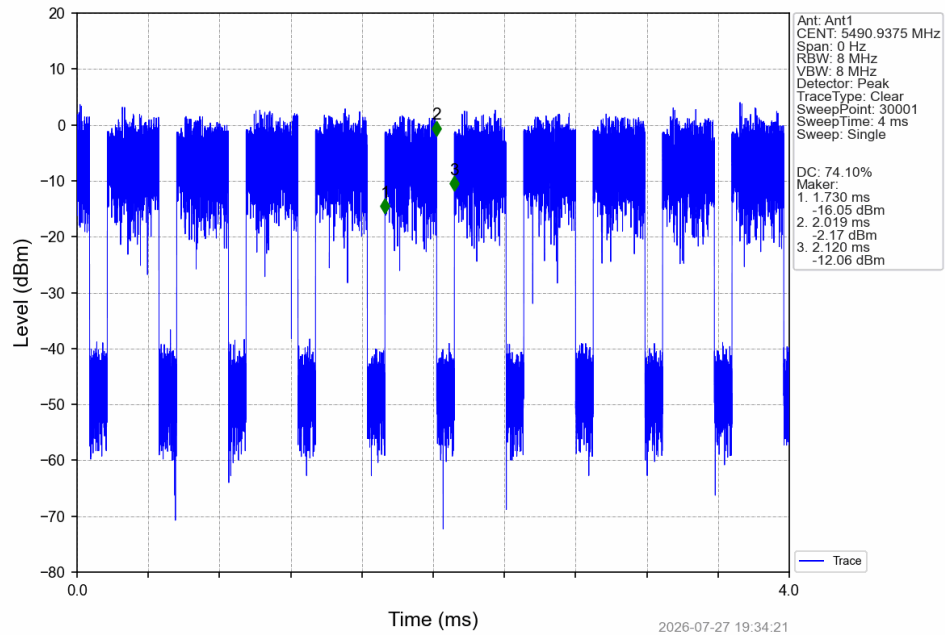
802.11ax(HEW80) MCH 5210MHz SU / Ant1 NTN



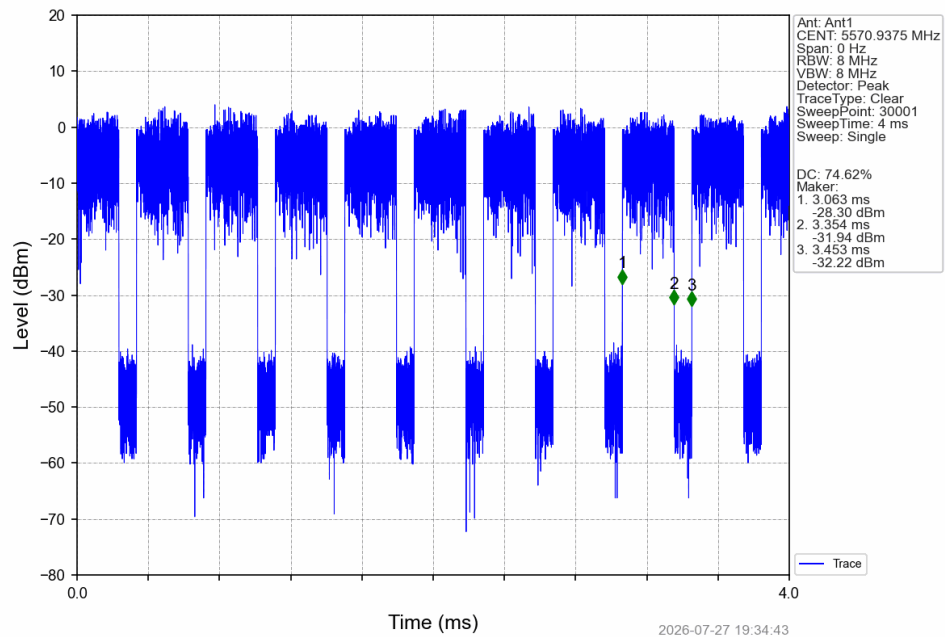
802.11ax(HEW80) MCH 5290MHz SU / Ant1 NTN

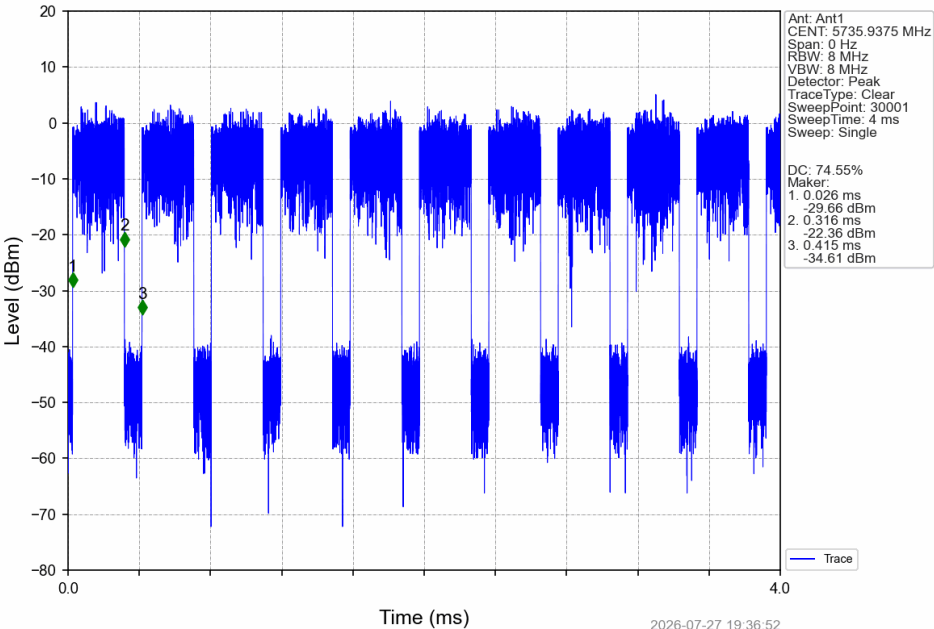


# 802.11ax(HEW80) LCH 5530MHz SU / Ant1 NTN



# 802.11ax(HEW80) HCH 5610MHz SU / Ant1 NTN





## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------------------|---------|-----------------|----|--------|-----|------------------------------|-------|---------|
|                  |         |                 |    |        |     | Result                       | Limit |         |
| 802.11a          | MIMO    | 5180            | /  | /      | 1   | 16.649                       | /     | Pass    |
|                  |         | 5200            | /  | /      | 1   | 16.650                       | /     | Pass    |
|                  |         | 5240            | /  | /      | 1   | 16.655                       | /     | Pass    |
|                  |         | 5260            | /  | /      | 1   | 16.619                       | /     | Pass    |
|                  |         | 5300            | /  | /      | 1   | 16.616                       | /     | Pass    |
|                  |         | 5320            | /  | /      | 1   | 16.570                       | /     | Pass    |
|                  |         | 5500            | /  | /      | 1   | 16.629                       | /     | Pass    |
|                  |         | 5600            | /  | /      | 1   | 16.594                       | /     | Pass    |
|                  |         | 5700            | /  | /      | 1   | 16.581                       | /     | Pass    |
|                  |         | 5745            | /  | /      | 1   | 16.586                       | /     | Pass    |
|                  |         | 5785            | /  | /      | 1   | 16.652                       | /     | Pass    |
|                  |         | 5825            | /  | /      | 1   | 16.561                       | /     | Pass    |
| 802.11n (HT20)   | MIMO    | 5180            | /  | /      | 1   | 17.786                       | /     | Pass    |
|                  |         | 5200            | /  | /      | 1   | 17.783                       | /     | Pass    |
|                  |         | 5240            | /  | /      | 1   | 17.766                       | /     | Pass    |
|                  |         | 5260            | /  | /      | 1   | 17.774                       | /     | Pass    |
|                  |         | 5300            | /  | /      | 1   | 17.771                       | /     | Pass    |
|                  |         | 5320            | /  | /      | 1   | 17.755                       | /     | Pass    |
|                  |         | 5500            | /  | /      | 1   | 17.780                       | /     | Pass    |
|                  |         | 5600            | /  | /      | 1   | 17.730                       | /     | Pass    |
|                  |         | 5700            | /  | /      | 1   | 17.759                       | /     | Pass    |
|                  |         | 5745            | /  | /      | 1   | 17.792                       | /     | Pass    |
|                  |         | 5785            | /  | /      | 1   | 17.804                       | /     | Pass    |
|                  |         | 5825            | /  | /      | 1   | 17.699                       | /     | Pass    |
| 802.11n (HT40)   | MIMO    | 5190            | /  | /      | 1   | 36.557                       | /     | Pass    |
|                  |         | 5230            | /  | /      | 1   | 36.544                       | /     | Pass    |
|                  |         | 5270            | /  | /      | 1   | 36.542                       | /     | Pass    |
|                  |         | 5310            | /  | /      | 1   | 36.564                       | /     | Pass    |
|                  |         | 5510            | /  | /      | 1   | 36.582                       | /     | Pass    |
|                  |         | 5590            | /  | /      | 1   | 36.737                       | /     | Pass    |
|                  |         | 5670            | /  | /      | 1   | 36.638                       | /     | Pass    |
|                  |         | 5755            | /  | /      | 1   | 36.650                       | /     | Pass    |
|                  |         | 5795            | /  | /      | 1   | 36.559                       | /     | Pass    |
| 802.11ac (VHT20) | MIMO    | 5180            | /  | /      | 1   | 17.775                       | /     | Pass    |
|                  |         | 5200            | /  | /      | 1   | 17.738                       | /     | Pass    |
|                  |         | 5240            | /  | /      | 1   | 17.754                       | /     | Pass    |
|                  |         | 5260            | /  | /      | 1   | 17.741                       | /     | Pass    |
|                  |         | 5300            | /  | /      | 1   | 17.759                       | /     | Pass    |
|                  |         | 5320            | /  | /      | 1   | 17.806                       | /     | Pass    |
|                  |         | 5500            | /  | /      | 1   | 17.819                       | /     | Pass    |
|                  |         | 5600            | /  | /      | 1   | 17.797                       | /     | Pass    |
|                  |         | 5700            | /  | /      | 1   | 17.800                       | /     | Pass    |
|                  |         | 5745            | /  | /      | 1   | 17.718                       | /     | Pass    |
|                  |         | 5785            | /  | /      | 1   | 17.749                       | /     | Pass    |
|                  |         | 5825            | /  | /      | 1   | 17.730                       | /     | Pass    |
| 802.11ac (VHT40) | MIMO    | 5190            | /  | /      | 1   | 36.662                       | /     | Pass    |
|                  |         | 5230            | /  | /      | 1   | 36.600                       | /     | Pass    |

|                     |      |      |    |   |   |        |   |      |
|---------------------|------|------|----|---|---|--------|---|------|
|                     |      | 5270 | /  | / | 1 | 36.573 | / | Pass |
|                     |      | 5310 | /  | / | 1 | 36.590 | / | Pass |
|                     |      | 5510 | /  | / | 1 | 36.640 | / | Pass |
|                     |      | 5590 | /  | / | 1 | 36.601 | / | Pass |
|                     |      | 5670 | /  | / | 1 | 36.672 | / | Pass |
|                     |      | 5755 | /  | / | 1 | 36.629 | / | Pass |
|                     |      | 5795 | /  | / | 1 | 36.586 | / | Pass |
| 802.11ac<br>(VHT80) | MIMO | 5210 | /  | / | 1 | 75.810 | / | Pass |
|                     |      | 5290 | /  | / | 1 | 75.744 | / | Pass |
|                     |      | 5530 | /  | / | 1 | 75.847 | / | Pass |
|                     |      | 5610 | /  | / | 1 | 75.656 | / | Pass |
|                     |      | 5775 | /  | / | 1 | 75.869 | / | Pass |
| 802.11ax<br>(HEW20) | MIMO | 5180 | SU | / | 1 | 18.979 | / | Pass |
|                     |      | 5200 | SU | / | 1 | 18.896 | / | Pass |
|                     |      | 5240 | SU | / | 1 | 18.894 | / | Pass |
|                     |      | 5260 | SU | / | 1 | 18.876 | / | Pass |
|                     |      | 5300 | SU | / | 1 | 18.908 | / | Pass |
|                     |      | 5320 | SU | / | 1 | 18.912 | / | Pass |
|                     |      | 5500 | SU | / | 1 | 18.926 | / | Pass |
|                     |      | 5600 | SU | / | 1 | 18.899 | / | Pass |
|                     |      | 5700 | SU | / | 1 | 18.899 | / | Pass |
|                     |      | 5745 | SU | / | 1 | 18.930 | / | Pass |
|                     |      | 5785 | SU | / | 1 | 18.920 | / | Pass |
| 802.11ax<br>(HEW40) | MIMO | 5825 | SU | / | 1 | 18.880 | / | Pass |
|                     |      | 5190 | SU | / | 1 | 37.784 | / | Pass |
|                     |      | 5230 | SU | / | 1 | 37.719 | / | Pass |
|                     |      | 5270 | SU | / | 1 | 37.789 | / | Pass |
|                     |      | 5310 | SU | / | 1 | 37.772 | / | Pass |
|                     |      | 5510 | SU | / | 1 | 37.743 | / | Pass |
|                     |      | 5590 | SU | / | 1 | 37.791 | / | Pass |
|                     |      | 5670 | SU | / | 1 | 37.756 | / | Pass |
|                     |      | 5755 | SU | / | 1 | 37.974 | / | Pass |
| 802.11ax<br>(HEW80) | MIMO | 5795 | SU | / | 1 | 37.779 | / | Pass |
|                     |      | 5210 | SU | / | 1 | 77.135 | / | Pass |
|                     |      | 5290 | SU | / | 1 | 77.095 | / | Pass |
|                     |      | 5530 | SU | / | 1 | 77.138 | / | Pass |
|                     |      | 5610 | SU | / | 1 | 76.905 | / | Pass |
|                     |      | 5775 | SU | / | 1 | 77.196 | / | Pass |

## 2.1.2 26dB BW

| Mode              | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 26dB Bandwidth (MHz) |       | Verdict |
|-------------------|---------|-----------------|----|--------|-----|----------------------|-------|---------|
|                   |         |                 |    |        |     | Result               | Limit |         |
| 802.11a           | MIMO    | 5180            | /  | /      | 1   | 21.384               | /     | Pass    |
|                   |         | 5200            | /  | /      | 1   | 21.331               | /     | Pass    |
|                   |         | 5240            | /  | /      | 1   | 21.414               | /     | Pass    |
|                   |         | 5260            | /  | /      | 1   | 21.409               | /     | Pass    |
|                   |         | 5300            | /  | /      | 1   | 21.160               | /     | Pass    |
|                   |         | 5320            | /  | /      | 1   | 21.371               | /     | Pass    |
|                   |         | 5500            | /  | /      | 1   | 21.324               | /     | Pass    |
|                   |         | 5600            | /  | /      | 1   | 20.931               | /     | Pass    |
| 802.11n<br>(HT20) | MIMO    | 5700            | /  | /      | 1   | 21.083               | /     | Pass    |
|                   |         | 5180            | /  | /      | 1   | 21.861               | /     | Pass    |
|                   |         | 5200            | /  | /      | 1   | 21.461               | /     | Pass    |
|                   |         | 5240            | /  | /      | 1   | 21.562               | /     | Pass    |
|                   |         | 5260            | /  | /      | 1   | 21.487               | /     | Pass    |
|                   |         | 5300            | /  | /      | 1   | 21.546               | /     | Pass    |

|                     |      |      |    |   |   |        |   |      |
|---------------------|------|------|----|---|---|--------|---|------|
|                     |      | 5320 | /  | / | 1 | 21.445 | / | Pass |
|                     |      | 5500 | /  | / | 1 | 21.502 | / | Pass |
|                     |      | 5600 | /  | / | 1 | 21.425 | / | Pass |
|                     |      | 5700 | /  | / | 1 | 21.598 | / | Pass |
| 802.11n<br>(HT40)   | MIMO | 5190 | /  | / | 1 | 40.949 | / | Pass |
|                     |      | 5230 | /  | / | 1 | 40.836 | / | Pass |
|                     |      | 5270 | /  | / | 1 | 41.745 | / | Pass |
|                     |      | 5310 | /  | / | 1 | 40.932 | / | Pass |
|                     |      | 5510 | /  | / | 1 | 40.681 | / | Pass |
|                     |      | 5590 | /  | / | 1 | 40.766 | / | Pass |
|                     |      | 5670 | /  | / | 1 | 45.120 | / | Pass |
|                     |      | 5180 | /  | / | 1 | 21.626 | / | Pass |
| 802.11ac<br>(VHT20) | MIMO | 5200 | /  | / | 1 | 21.532 | / | Pass |
|                     |      | 5240 | /  | / | 1 | 21.521 | / | Pass |
|                     |      | 5260 | /  | / | 1 | 21.632 | / | Pass |
|                     |      | 5300 | /  | / | 1 | 21.651 | / | Pass |
|                     |      | 5320 | /  | / | 1 | 21.553 | / | Pass |
|                     |      | 5500 | /  | / | 1 | 21.571 | / | Pass |
|                     |      | 5600 | /  | / | 1 | 21.351 | / | Pass |
|                     |      | 5700 | /  | / | 1 | 21.484 | / | Pass |
| 802.11ac<br>(VHT40) | MIMO | 5190 | /  | / | 1 | 40.751 | / | Pass |
|                     |      | 5230 | /  | / | 1 | 41.097 | / | Pass |
|                     |      | 5270 | /  | / | 1 | 40.893 | / | Pass |
|                     |      | 5310 | /  | / | 1 | 40.692 | / | Pass |
|                     |      | 5510 | /  | / | 1 | 40.818 | / | Pass |
|                     |      | 5590 | /  | / | 1 | 40.957 | / | Pass |
|                     |      | 5670 | /  | / | 1 | 41.365 | / | Pass |
| 802.11ac<br>(VHT80) | MIMO | 5210 | /  | / | 1 | 81.425 | / | Pass |
|                     |      | 5290 | /  | / | 1 | 81.455 | / | Pass |
|                     |      | 5530 | /  | / | 1 | 81.822 | / | Pass |
|                     |      | 5610 | /  | / | 1 | 81.441 | / | Pass |
| 802.11ax<br>(HEW20) | MIMO | 5180 | SU | / | 1 | 21.088 | / | Pass |
|                     |      | 5200 | SU | / | 1 | 21.154 | / | Pass |
|                     |      | 5240 | SU | / | 1 | 21.361 | / | Pass |
|                     |      | 5260 | SU | / | 1 | 21.349 | / | Pass |
|                     |      | 5300 | SU | / | 1 | 21.157 | / | Pass |
|                     |      | 5320 | SU | / | 1 | 21.184 | / | Pass |
|                     |      | 5500 | SU | / | 1 | 20.846 | / | Pass |
|                     |      | 5600 | SU | / | 1 | 21.200 | / | Pass |
| 802.11ax<br>(HEW40) | MIMO | 5700 | SU | / | 1 | 21.433 | / | Pass |
|                     |      | 5190 | SU | / | 1 | 40.823 | / | Pass |
|                     |      | 5230 | SU | / | 1 | 40.512 | / | Pass |
|                     |      | 5270 | SU | / | 1 | 40.742 | / | Pass |
|                     |      | 5310 | SU | / | 1 | 41.168 | / | Pass |
|                     |      | 5510 | SU | / | 1 | 41.190 | / | Pass |
|                     |      | 5590 | SU | / | 1 | 40.931 | / | Pass |
| 802.11ax<br>(HEW80) | MIMO | 5670 | SU | / | 1 | 40.984 | / | Pass |
|                     |      | 5210 | SU | / | 1 | 80.827 | / | Pass |
|                     |      | 5290 | SU | / | 1 | 81.063 | / | Pass |
|                     |      | 5530 | SU | / | 1 | 81.082 | / | Pass |
|                     |      | 5610 | SU | / | 1 | 81.858 | / | Pass |

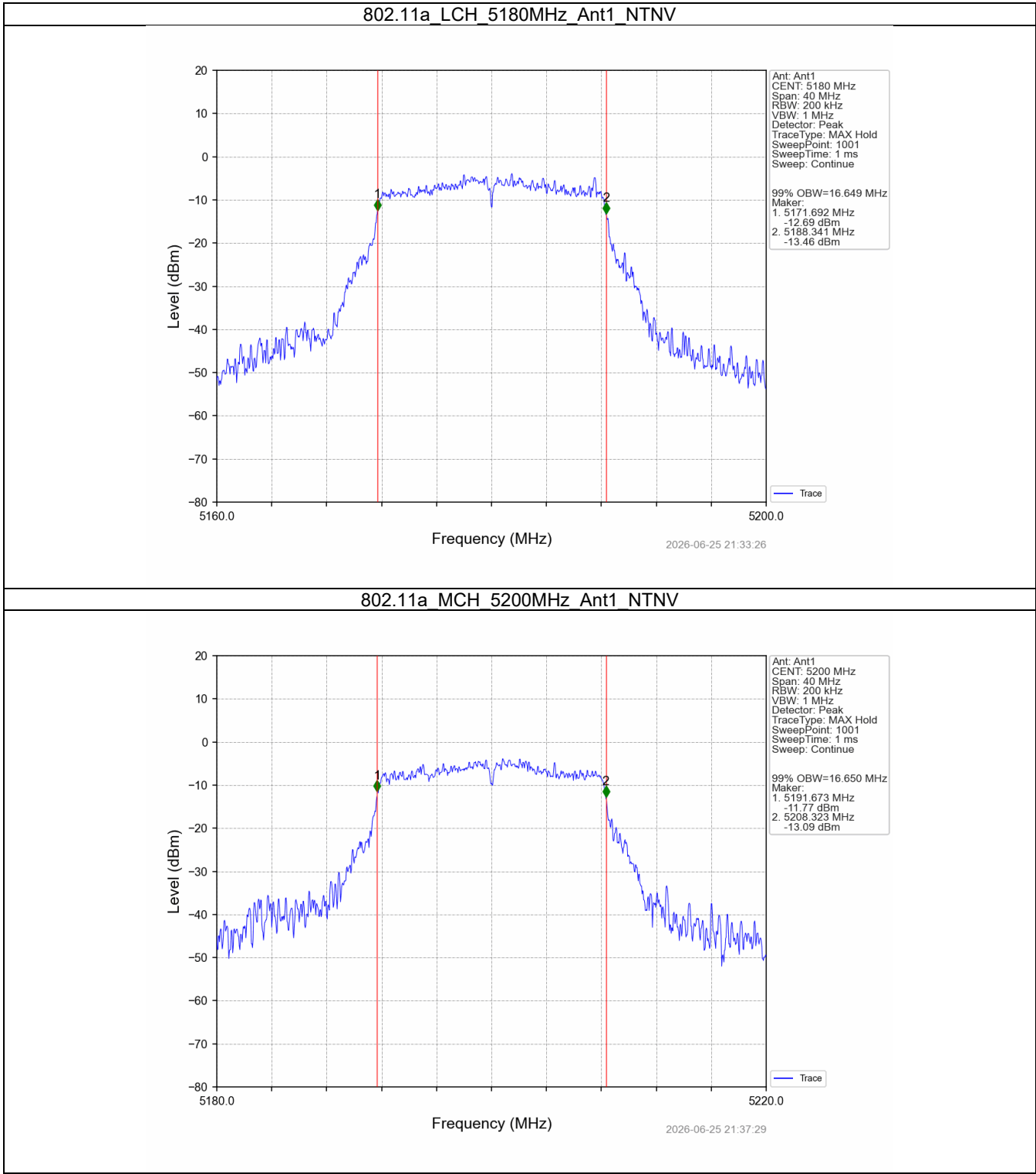
### 2.1.3 6dB BW

| Mode    | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 6dB Bandwidth (MHz) |       | Verdict |
|---------|---------|-----------------|----|--------|-----|---------------------|-------|---------|
|         |         |                 |    |        |     | Result              | Limit |         |
| 802.11a | MIMO    | 5745            | /  | /      | 1   | 16.337              | >=0.5 | Pass    |

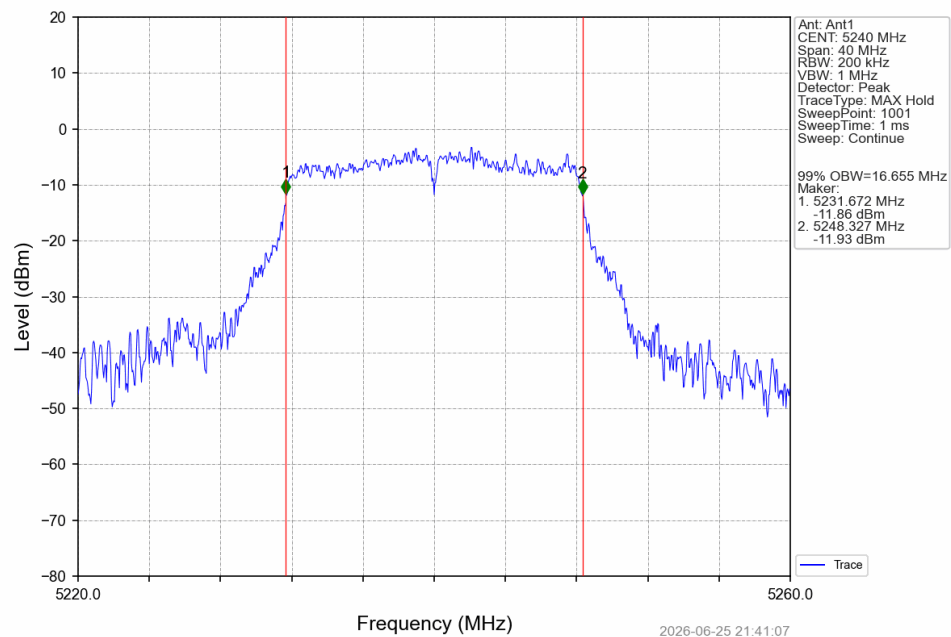
|                     |      |      |    |   |   |        |            |      |
|---------------------|------|------|----|---|---|--------|------------|------|
|                     |      | 5785 | /  | / | 1 | 16.106 | $\geq 0.5$ | Pass |
|                     |      | 5825 | /  | / | 1 | 15.971 | $\geq 0.5$ | Pass |
| 802.11n<br>(HT20)   | MIMO | 5745 | /  | / | 1 | 17.175 | $\geq 0.5$ | Pass |
|                     |      | 5785 | /  | / | 1 | 16.891 | $\geq 0.5$ | Pass |
|                     |      | 5825 | /  | / | 1 | 17.532 | $\geq 0.5$ | Pass |
| 802.11n<br>(HT40)   | MIMO | 5755 | /  | / | 1 | 36.370 | $\geq 0.5$ | Pass |
|                     |      | 5795 | /  | / | 1 | 36.034 | $\geq 0.5$ | Pass |
| 802.11ac<br>(VHT20) | MIMO | 5745 | /  | / | 1 | 17.625 | $\geq 0.5$ | Pass |
|                     |      | 5785 | /  | / | 1 | 16.593 | $\geq 0.5$ | Pass |
|                     |      | 5825 | /  | / | 1 | 17.574 | $\geq 0.5$ | Pass |
| 802.11ac<br>(VHT40) | MIMO | 5755 | /  | / | 1 | 36.374 | $\geq 0.5$ | Pass |
|                     |      | 5795 | /  | / | 1 | 35.770 | $\geq 0.5$ | Pass |
| 802.11ac<br>(VHT80) | MIMO | 5775 | /  | / | 1 | 75.781 | $\geq 0.5$ | Pass |
| 802.11ax<br>(HEW20) | MIMO | 5745 | SU | / | 1 | 18.325 | $\geq 0.5$ | Pass |
|                     |      | 5785 | SU | / | 1 | 18.339 | $\geq 0.5$ | Pass |
|                     |      | 5825 | SU | / | 1 | 18.306 | $\geq 0.5$ | Pass |
| 802.11ax<br>(HEW40) | MIMO | 5755 | SU | / | 1 | 37.760 | $\geq 0.5$ | Pass |
|                     |      | 5795 | SU | / | 1 | 37.618 | $\geq 0.5$ | Pass |
| 802.11ax<br>(HEW80) | MIMO | 5775 | SU | / | 1 | 76.724 | $\geq 0.5$ | Pass |

2.2 Test Graph

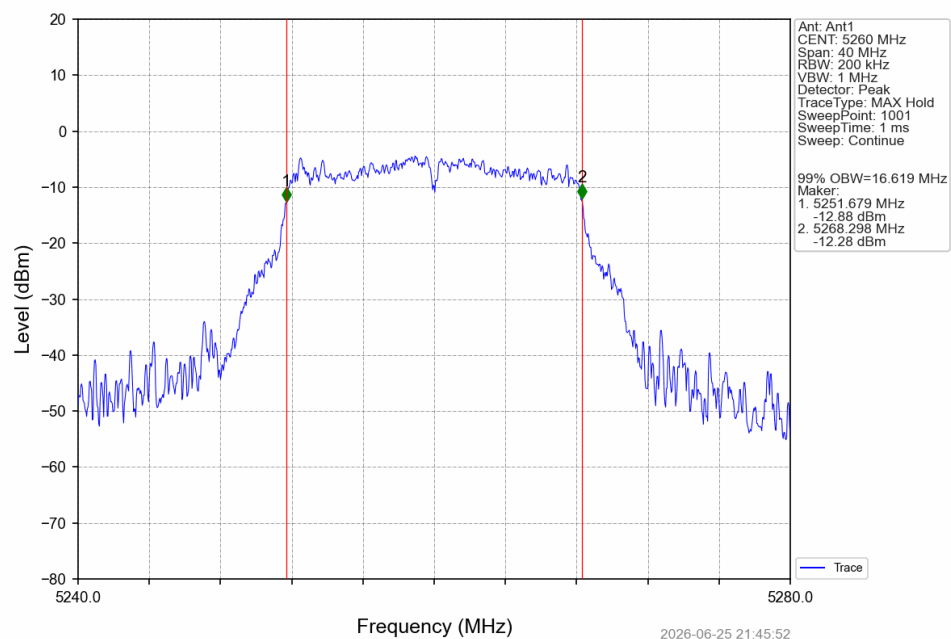
2.2.1 OBW



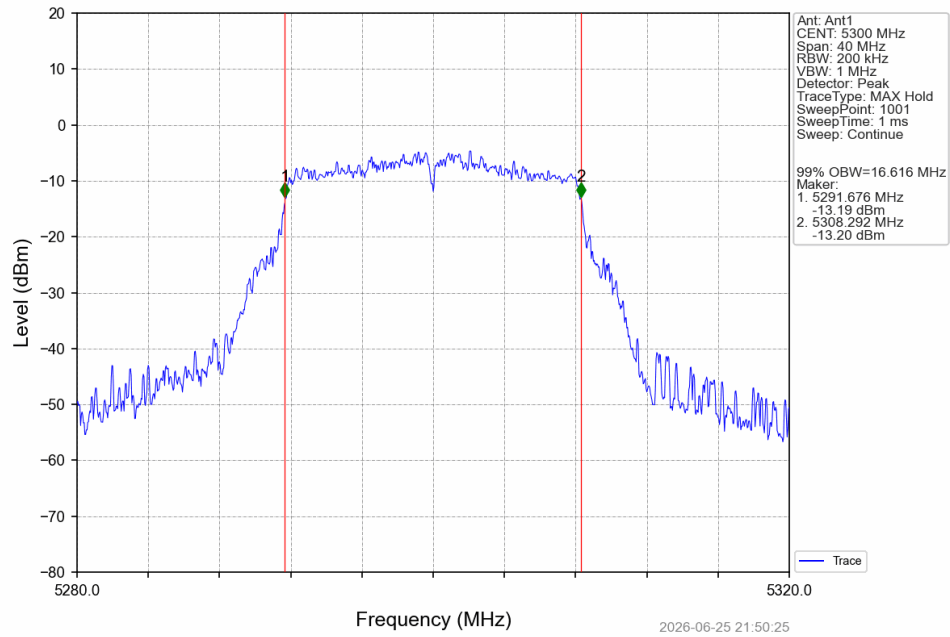
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



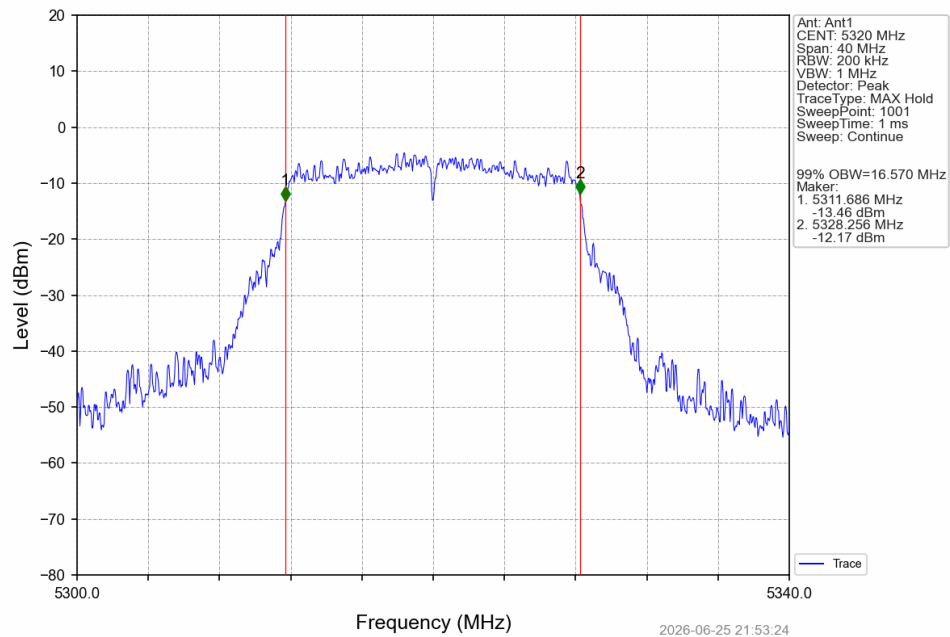
802.11a\_LCH\_5260MHz\_Ant1\_NTNV



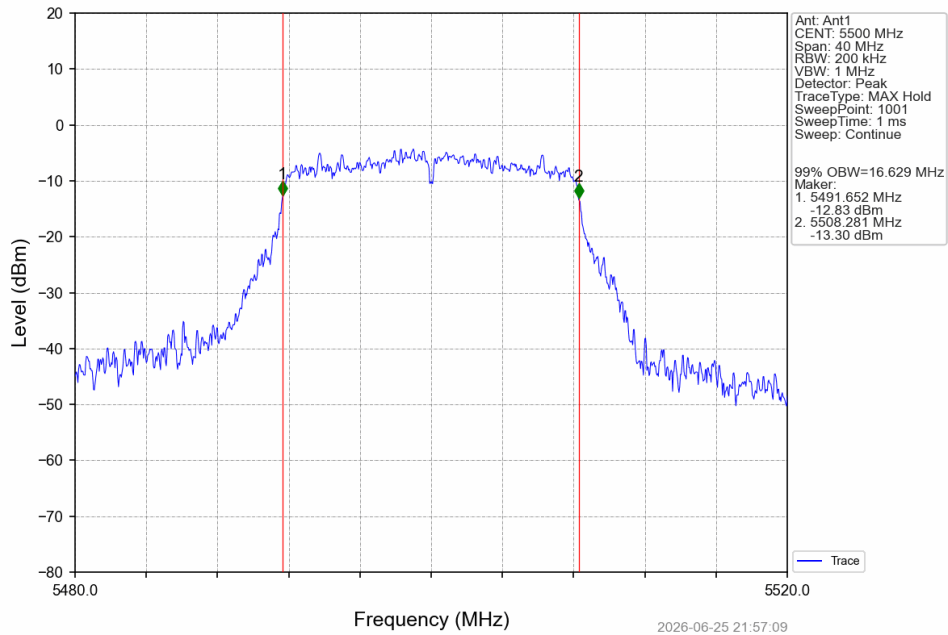
### 802.11a MCH 5300MHz Ant1 NTVN



### 802.11a\_HCH\_5320MHz\_Ant1\_NTVN



### 802.11a LCH 5500MHz Ant1 NTN



### 802.11a\_MCH\_5600MHz\_Ant1 NTN

