



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400034206

Rev.: 02

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# TEST REPORT

**Application No.:** SUCR2504000342WM  
**Applicant:** FCNT LLC.  
**Address of Applicant:** Sanki Yamato Bldg. 3F, 7-10-1, Chuorinkan, Yamato-shi, Kanagawa, 242-0007, Japan  
**Manufacturer:** FCNT LLC.  
**Address of Manufacturer:** Sanki Yamato Bldg. 3F, 7-10-1, Chuorinkan, Yamato-shi, Kanagawa, 242-0007, Japan  
**EUT Description:** Mobile Cellular Phone  
**Model No.:** M08, F-51F -----♣  
**♣** Please refer to section 2.4 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** FCNT LLC.  
**FCC ID:** 2BEPUFMP203  
**Standards:** FCC 47 CFR Part 2, Subpart J  
FCC 47 CFR Part 15, Subpart E  
**Date of Receipt:** April 18, 2025  
**Date of Test:** April 25, 2025 to May 8, 2025  
**Date of Issue:** June 6, 2025

|                      |               |
|----------------------|---------------|
| <b>Test Result :</b> | <b>PASS *</b> |
|----------------------|---------------|

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

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| Revision Record |                                   |              |        |
|-----------------|-----------------------------------|--------------|--------|
| Version         | Description                       | Date         | Remark |
| 01              | Original                          | May 26, 2025 | /      |
| 02              | Revise the comments raised by TCB | June 6, 2025 | /      |
|                 |                                   |              |        |

|                          |  |                                                                                     |  |  |
|--------------------------|--|-------------------------------------------------------------------------------------|--|--|
| Authorized for issue by: |  |                                                                                     |  |  |
| Tested By                |  |   |  |  |
|                          |  | Nature Shen / Project Manager                                                       |  |  |
| Approved By              |  |  |  |  |
|                          |  | Cloud Peng/Technical Manager                                                        |  |  |



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### 1 Test Summary

| Test Item                      | Band <sup>[1]</sup>                          | FCC rules No.              | Test Requirements                                                                                                                                                | Test Result | Result             |
|--------------------------------|----------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|
| Antenna Requirement            | --                                           | 15.203/15.407(a)           | --                                                                                                                                                               | Clause 5.1  | PASS               |
| 26dB Emission Bandwidth        | Band I                                       | 15.407(a)(1)               | No limit.                                                                                                                                                        | Clause 5.5  | For Report Purpose |
|                                | Band II-A                                    | 15.407(a)(2)               |                                                                                                                                                                  |             |                    |
|                                | Band II-C                                    | 15.407(a)(2)               |                                                                                                                                                                  |             |                    |
| 6dB Emission Bandwidth         | Band III                                     | 15.407(e)                  | ≥ 500 kHz.                                                                                                                                                       | Clause 5.6  | PASS               |
| 99% Occupied Bandwidth         | Band I                                       | KDB 789033<br>D02§ D       | No limit.                                                                                                                                                        | Clause 5.7  | For Report Purpose |
|                                | Band II-A                                    |                            |                                                                                                                                                                  |             |                    |
|                                | Band II-C                                    |                            |                                                                                                                                                                  |             |                    |
|                                | Band III                                     |                            |                                                                                                                                                                  |             |                    |
| Duty Cycle                     | Band I<br>Band II-A<br>Band II-C<br>Band III | --                         | No limit.                                                                                                                                                        | Clause 5.3  | For Report Purpose |
| Maximum Conducted Output Power | Band I                                       | 15.407(a)(iv)              | < 250mW                                                                                                                                                          | Clause 5.4  | PASS               |
|                                | Band II-A                                    | 15.407(a)(2)               | <MIN{250mW, 11dBm+10*Ig(EBW)}                                                                                                                                    |             |                    |
|                                | Band II-C                                    |                            |                                                                                                                                                                  |             |                    |
|                                | Band III                                     | 15.407(a)(3)               | < 1W                                                                                                                                                             |             |                    |
| Maximum Power Spectral Density | Band I                                       | 15.407(a)(iv)              | <11dBm/MHz                                                                                                                                                       | Clause 5.8  | PASS               |
|                                | Band II-A                                    | 15.407(a)(2)               | <11dBm/MHz                                                                                                                                                       |             |                    |
|                                | Band II-C                                    |                            |                                                                                                                                                                  |             |                    |
|                                | Band III                                     | 15.407(a)(3)               | <30dBm/500KHz                                                                                                                                                    |             |                    |
| Radiated Spurious Emissions    | Band I                                       | 15.407(b)<br>15.205/15.209 | F<1GHz:<br>§15.209 limit (QP).<br>F≥1GHz & out-restricted:<br><-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz).<br>F≥1GHz & in-restricted:<br>§15.209 limit (AV&PK). | Clause 5.9  | PASS               |
|                                | Band II-A                                    | 15.407(b)<br>15.205/15.209 | F<1GHz:<br>§15.209 limit (QP).<br>F≥1GHz & out-restricted:<br><-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz).<br>F≥1GHz & in-restricted:<br>§15.209 limit (AV&PK). |             | PASS               |
|                                | Band II-C                                    | 15.407(b)<br>15.205/15.209 | F<1GHz:<br>§15.209 limit (QP).<br>F≥1GHz & out-restricted:<br><-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz).                                                     |             | PASS               |



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| Test Item                                                                                                       | Band <sup>[1]</sup>                          | FCC rules No.              | Test Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test Result    | Result |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------|
|                                                                                                                 |                                              |                            | F≥1GHz & in-restricted:<br>§15.209 limit (AV&PK).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |        |
|                                                                                                                 | Band III                                     | 15.407(b)<br>15.205/15.209 | F<1GHz:<br>§15.209 limit (QP)<br>F≥1GHz & out-restricted: (PK)<br>All emissions shall be limited to a level of<br>-27 dBm/MHz at 75 MHz or more above<br>or below the band edge increasing linearly<br>to 10 dBm/MHz at 25 MHz above or below<br>the band edge, and from 25 MHz above or<br>below the band edge increasing linearly to<br>a level of 15.6 dBm/MHz at 5 MHz above<br>or below the band edge, and from 5 MHz<br>above or below the band edge increasing<br>linearly to a level of 27 dBm/MHz at the<br>band edge.<br>F≥1GHz & in-restricted:<br>§15.209 limit (AV&PK). |                | PASS   |
| Restricted bands<br>around<br>fundamental<br>frequency                                                          | Band I<br>Band II-A<br>Band II-C<br>Band III | 15.407(b)<br>15.205/15.209 | ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Clause<br>5.10 | PASS   |
| AC Power Line<br>Conducted<br>Emissions                                                                         | Band I<br>Band II-A<br>Band II-C<br>Band III | 15.207                     | ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Clause<br>5.2  | PASS   |
| Dynamic<br>Frequency<br>Selection                                                                               | Band II-A<br>Band II-C                       | 15.407                     | Channel Move Time:10 Seconds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Clause<br>5.11 | PASS   |
| Frequency<br>Stability                                                                                          | Band I<br>Band II-A<br>Band II-C<br>Band III | 15.407(g)                  | Manufacturers of U-NII devices are<br>responsible for ensuring frequency stability<br>such that an emission is maintained within<br>the band of operation under all conditions<br>of normal operation as specified in the<br>users manual                                                                                                                                                                                                                                                                                                                                            | N/A            | N/A    |
| Note 1:<br>Band I: 5150-5250MHz<br>Band II-A: 5250-5350MHz<br>Band II-C: 5470-5725MHz<br>Band III: 5725-5850MHz |                                              |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |        |



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## 2 General Information

### 2.1 Details of Client

|                          |                                                                                  |
|--------------------------|----------------------------------------------------------------------------------|
| Applicant:               | FCNT LLC.                                                                        |
| Address of Applicant:    | Sanki Yamato Bldg. 3F, 7-10-1, Chuorinkan, Yamato-shi, Kanagawa, 242-0007, Japan |
| Manufacturer:            | FCNT LLC.                                                                        |
| Address of Manufacturer: | Sanki Yamato Bldg. 3F, 7-10-1, Chuorinkan, Yamato-shi, Kanagawa, 242-0007, Japan |

### 2.2 Test Location

|                |                                                                                                                        |
|----------------|------------------------------------------------------------------------------------------------------------------------|
| Company:       | SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.                                                               |
| Address:       | South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone |
| Post code:     | 215000                                                                                                                 |
| Test engineer: | Tizzy Song, Ives Cheng                                                                                                 |

### 2.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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### 2.4 General Description of EUT

|                      |                                                                                                                                                                                                                  |                                                                   |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| EUT Description:     | Mobile Cellular Phone                                                                                                                                                                                            |                                                                   |
| Model No.:           | M08, F-51F                                                                                                                                                                                                       |                                                                   |
| Trade Mark:          | FCNT LLC.                                                                                                                                                                                                        |                                                                   |
| Hardware Version:    | DVT2                                                                                                                                                                                                             |                                                                   |
| Software Version:    | V2VH35.58-5                                                                                                                                                                                                      |                                                                   |
| IMEI:                | RF Conducted                                                                                                                                                                                                     | 354977560034184                                                   |
|                      | RSE & AC power line                                                                                                                                                                                              | 354977560034887                                                   |
| WLAN Mode Supported: | 802.11a:                                                                                                                                                                                                         | 20 MHz channel bandwidth                                          |
|                      | 802.11n:                                                                                                                                                                                                         | 20 MHz / 40 MHz channel bandwidth                                 |
|                      | 802.11ac:                                                                                                                                                                                                        | 20 MHz / 40 MHz / 80 MHz / 160 MHz channel bandwidth              |
|                      | 802.11ax:                                                                                                                                                                                                        | 20 MHz / 40 MHz / 80 MHz / 160 MHz channel bandwidth              |
| Operation Frequency: | 5150MHz to 5250MHz<br>5250MHz to 5350MHz<br>5470MHz to 5725MHz<br>5725MHz to 5850MHz                                                                                                                             |                                                                   |
| Modulation Type:     | 802.11a:                                                                                                                                                                                                         | OFDM (BPSK, QPSK, 16QAM, 64QAM)                                   |
|                      | 802.11n:                                                                                                                                                                                                         | OFDM (BPSK, QPSK, 16QAM, 64QAM)                                   |
|                      | 802.11ac:                                                                                                                                                                                                        | OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)                           |
|                      | 802.11ax:                                                                                                                                                                                                        | OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)            |
| Channel Spacing:     | 20MHz:                                                                                                                                                                                                           | 802.11a/n(HT20)/ac(VHT20)/ax(HE20)                                |
|                      | 40MHz:                                                                                                                                                                                                           | 802.11n(HT40)/ac(VHT40)/ax(HE40)                                  |
|                      | 80MHz:                                                                                                                                                                                                           | 802.11ac(VHT80)/ax(HE80)                                          |
|                      | 160MHz:                                                                                                                                                                                                          | 802.11ac(VHT160)/ax(HE160)                                        |
| Antenna Type:        | IFA Antenna                                                                                                                                                                                                      |                                                                   |
| Antenna Gain:        | 5150MHz to 5250MHz: -1.6dBi(Ant4); -3.8dBi(Ant5);<br>5250MHz to 5350MHz: -1.6dBi(Ant4); -3.5dBi(Ant5);<br>5470MHz to 5725MHz: -2.0dBi(Ant4); -3.3dBi(Ant5);<br>5725MHz to 5850MHz: -3.7dBi(Ant4); -3.2dBi(Ant5); |                                                                   |
|                      | Note:<br>The antenna gain are derived from the gain information report provided by the manufacturer.                                                                                                             |                                                                   |
| Smart System:        | <input type="checkbox"/> SISO                                                                                                                                                                                    | 802.11a/n/ac/ax                                                   |
|                      | <input checked="" type="checkbox"/> MIMO                                                                                                                                                                         | 802.11a/n/ac/ax: 2Tx & 2Rx                                        |
|                      | <input type="checkbox"/> Diversity                                                                                                                                                                               | 802.11a: Tx & Rx                                                  |
| TPC Function:        | <input checked="" type="checkbox"/> Support, <input type="checkbox"/> Not Support                                                                                                                                |                                                                   |
| DFS Function:        | <input type="checkbox"/> Master                                                                                                                                                                                  |                                                                   |
|                      | <input type="checkbox"/> Slave with radar detection                                                                                                                                                              | <input checked="" type="checkbox"/> Slave without radar detection |



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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| RF Cable*:                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1dB |
| <p>Note:</p> <p>1.Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</p> <p>2.The two models named M08, F-51F are the same product except that their model names are different for different market segments.</p> |     |

| Accessories Information |              |                                                                                                       |            |            |
|-------------------------|--------------|-------------------------------------------------------------------------------------------------------|------------|------------|
| AC Adapter              | Brand Name   | Motorola (AOHAI)                                                                                      | Model Name | MC-901     |
|                         | Power Rating | I/P: 100 - 240 Vac, 2000 mA, O/P: 5/9/15/20/5-15/5-20 Vdc, 3000/3000/3000/4500/3000~6000/3000~4500 mA |            |            |
|                         | Power Cord   | 0 meter, non-shielded cable, with w/o ferrite core                                                    |            |            |
| Battery                 | Brand Name   | ATL                                                                                                   | Model Name | SA18E67963 |
|                         | Power Rating | 3.91Vdc, 5000 mAh                                                                                     | Type       | Li-ion     |
| USB Cable 1             | Brand Name   | Saibao                                                                                                | Model Name | SC18D71644 |
|                         | Signal Line  | 1 meter, shielded cable, w/o ferrite core                                                             |            |            |
| USB Cable 2             | Brand Name   | Luxshare                                                                                              | Model Name | SC18E08104 |
|                         | Signal Line  | 1 meter, shielded cable, w/o ferrite core                                                             |            |            |

| <p>Remark:</p> <p>In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:</p> |                                            |                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|
| Frequency range over which device operates                                                                                                                                                                                                         | Number of Measurement Frequencies Required | Location of Measurement Frequency in Band of Operation |
| 1 MHz or less                                                                                                                                                                                                                                      | 1                                          | centre                                                 |
| 1 MHz to 10 MHz                                                                                                                                                                                                                                    | 2                                          | 1 near high end, 1 near low end                        |
| Greater than 10 MHz                                                                                                                                                                                                                                | 3                                          | 1 near high end, 1 near centre                         |



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| For UNII Band I:           |                     |                |
|----------------------------|---------------------|----------------|
| Mode                       | Channel             | Frequency(MHz) |
| IEEE 802.11a/n/ac/ax 20MHz | The Lowest channel  | 5180           |
|                            | The Middle channel  | 5200           |
|                            | The Highest channel | 5240           |
| IEEE 802.11n/ac/ax 40MHz   | The Lowest channel  | 5190           |
|                            | The Highest channel | 5230           |
| IEEE 802.11ac/ax 80MHz     | The Middle channel  | 5210           |

| For UNII Band II-A:        |                     |                |
|----------------------------|---------------------|----------------|
| Mode                       | Channel             | Frequency(MHz) |
| IEEE 802.11a/n/ac/ax 20MHz | The Lowest channel  | 5260           |
|                            | The Middle channel  | 5300           |
|                            | The Highest channel | 5320           |
| IEEE 802.11n/ac/ax 40MHz   | The Lowest channel  | 5270           |
|                            | The Highest channel | 5310           |
| IEEE 802.11ac/ax 80MHz     | The Middle channel  | 5290           |
| IEEE 802.11ax 160MHz       | The Middle channel  | 5250           |

| For UNII Band II-C:        |                     |                |
|----------------------------|---------------------|----------------|
| Mode                       | Channel             | Frequency(MHz) |
| IEEE 802.11a/n/ac/ax 20MHz | The Lowest channel  | 5500           |
|                            | The Middle channel  | 5580           |
|                            | The Highest channel | 5700           |
| IEEE 802.11n/ac/ax 40MHz   | The Lowest channel  | 5510           |
|                            | The Middle channel  | 5550           |
|                            | The Highest channel | 5670           |
| IEEE 802.11ac/ax 80MHz     | The Middle channel  | 5530           |
| IEEE 802.11ax 160MHz       | The Middle channel  | 5570           |



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| For UNII Band III:         |                     |                |
|----------------------------|---------------------|----------------|
| Mode                       | Channel             | Frequency(MHz) |
| IEEE 802.11a/n/ac/ax 20MHz | The Lowest channel  | 5745           |
|                            | The Middle channel  | 5785           |
|                            | The Highest channel | 5825           |
| IEEE 802.11n/ac/ax 40MHz   | The Lowest channel  | 5755           |
|                            | The Highest channel | 5795           |
| IEEE 802.11ac/ax 80MHz     | The Middle channel  | 5775           |

| Frequency Band   | Channel            | Freq.(MHz) | Channel            | Freq.(MHz) |
|------------------|--------------------|------------|--------------------|------------|
| Straddle Channel | 144 <sup>[1]</sup> | 5720       | 142 <sup>[2]</sup> | 5710       |
|                  | 138 <sup>[3]</sup> | 5690       | -                  | -          |
| TDWR Channel     | 120 <sup>[1]</sup> | 5600       | 124 <sup>[1]</sup> | 5620       |
|                  | 128 <sup>[1]</sup> | 5640       | 118 <sup>[2]</sup> | 5590       |
|                  | 126 <sup>[2]</sup> | 5630       | 122 <sup>[3]</sup> | 5610       |
|                  | 114 <sup>[4]</sup> | 5570       | -                  | -          |

Note:

1. The above Frequency and Channel were 802.11a, 802.11n HT20 and 802.11ac VHT20.
2. The above Frequency and Channel were 802.11n HT40 and 802.11ac VHT40.
3. The above Frequency and Channel were 802.11ac VHT80.
4. The above Frequency and Channel were 802.11ac VHT160.

Remark:

1. 802.11ax/be support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power, the full RU power > partial RU, therefore the full RU perform full test to cover partial RU except for PSD/ Duty cycle/BE.



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### 2.5 Test Environment and Mode

| Environment Parameter                                   | 101 kPa Selected Values During Tests |            |
|---------------------------------------------------------|--------------------------------------|------------|
| Relative Humidity                                       | 44-46 % RH Ambient                   |            |
| Value                                                   | Temperature(°C)                      | Voltage(V) |
| NTNV                                                    | 22~23                                | 3.91       |
| Remark:<br>NV: Normal Voltage<br>NT: Normal Temperature |                                      |            |

### 2.6 Description of Support Units

The EUT has been tested as an independent unit.

### 2.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

| Modulation Type    | SISO - Data Rate | MIMO - Data Rate |
|--------------------|------------------|------------------|
| 802.11a            | 6 Mbps           | 12 Mbps          |
| 802.11n (HT 20)    | MCS0 (6.5 Mbps)  | MCS0 (13 Mbps)   |
| 802.11n (HT 40)    | MCS0 (13.5 Mbps) | MCS0 (27 Mbps)   |
| 802.11ac (VHT 20)  | MCS0 (6.5 Mbps)  | MCS0 (13 Mbps)   |
| 802.11ac (VHT 40)  | MCS0 (13.5 Mbps) | MCS0 (27 Mbps)   |
| 802.11ac (VHT 80)  | MCS0 (29.3 Mbps) | MCS0 (58.5 Mbps) |
| 802.11ac (VHT 160) | MCS0 (58.5 Mbps) | MCS0 (117 Mbps)  |
| 802.11ax (HE 20)   | MCS0 (8 Mbps)    | MCS0 (16 Mbps)   |
| 802.11ax (HE 40)   | MCS0 (16 Mbps)   | MCS0 (32 Mbps)   |
| 802.11ax (HE 80)   | MCS0 (34 Mbps)   | MCS0 (68 Mbps)   |
| 802.11ax (HE 160)  | MCS0 (68 Mbps)   | MCS0 (136 Mbps)  |

The output power and PSD for the 802.11 ax mode were investigated between all different tones, and we found that SU mode had the highest output power and the lowest tone had the highest PSD readings. And after investigation, conducted tests were performed on both SU and lowest tones.



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### 3 Equipment List

| RF Test Equipment                   |               |                                  |               |                      |                      |
|-------------------------------------|---------------|----------------------------------|---------------|----------------------|----------------------|
| Equipment                           | Manufacturer  | Model No.                        | Inventory No. | Cal Date             | Cal Due Date         |
| Shielding Room                      | Brilliant-emc | N/A                              | SUWI-04-08-01 | 11/9/2022            | 11/8/2025            |
| Temperature and humidity meter      | MingGao       | TH101B                           | SUWI-01-01-07 | 2/13/2025            | 2/12/2026            |
| Measurement Software                | Tonscend      | TST272 V2.0                      | SUWI-03-55-03 | NCR                  | NCR                  |
| Signal Analyzer                     | ROHDE&SCHWARZ | FSW43                            | SUWI-01-02-04 | 1/20/2025            | 1/19/2026            |
| Temperature Chamber                 | ESPEC         | SU-242                           | SUWI-01-13-02 | 5/9/2024<br>5/7/2025 | 5/8/2025<br>5/6/2026 |
| Wideband Radio Communication Tester | ROHDE&SCHWARZ | CMW500                           | SUWI-01-16-05 | 1/21/2025            | 1/20/2026            |
| DC Power Supply                     | HYELEC        | HY3005B                          | SUWI-01-18-01 | 1/15/2025            | 1/14/2026            |
| Power meter                         | Anritsu       | ML2495A                          | SUWI-01-31-01 | 11/19/2024           | 11/18/2025           |
| Pulse power sensor                  | Anritsu       | MA2411B                          | SUWI-01-32-01 | 11/19/2024           | 11/18/2025           |
| MXG Vector signal genitor           | KEYSIGHT      | N5182B                           | SUWI-01-38-01 | 1/15/2025            | 1/14/2026            |
| Router                              | ASUS          | GT-AXE11000(FCC ID MSQ-RTAXJF00) | SUWI-03-14-02 | NCR                  | NCR                  |
| Signal Analyzer                     | KEYSIGHT      | N9020A                           | SUWI-01-02-07 | 11/19/2024           | 11/18/2025           |



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| CE Test System                 |               |                    |               |                      |                      |
|--------------------------------|---------------|--------------------|---------------|----------------------|----------------------|
| Equipment                      | Manufacturer  | Model No.          | Inventory No. | Cal Date             | Cal Due Date         |
| Test receiver                  | ROHDE&SCHWARZ | ESR7               | SUWI-01-10-01 | 1/15/2025            | 1/14/2026            |
| Temperature and humidity meter | MingGao       | TH101B             | SUWI-01-01-06 | 2/13/2025            | 2/12/2026            |
| Artificial network             | ROHDE&SCHWARZ | ENV216             | SUWI-01-19-03 | 5/6/2024<br>5/4/2025 | 5/5/2025<br>5/3/2026 |
| Artificial network             | ROHDE&SCHWARZ | ENV216             | SUWI-01-19-04 | 5/6/2024<br>5/4/2025 | 5/5/2025<br>5/3/2026 |
| Measurement Software           | Tonscend      | JS32-CE<br>4.0.0.2 | SUWI-02-09-05 | NCR                  | NCR                  |

| RSE Test Equipment             |                                   |                     |               |            |              |
|--------------------------------|-----------------------------------|---------------------|---------------|------------|--------------|
| Equipment                      | Manufacturer                      | Model No.           | Inventory No. | Cal Date   | Cal Due Date |
| Semi-Anechoic Chamber          | Brilliant-emc                     | N/A                 | SUWI-04-02-01 | 6/3/2023   | 6/2/2026     |
| Temperature and humidity meter | MingGao                           | TH101B              | SUWI-01-01-05 | 2/13/2025  | 2/12/2026    |
| Signal Analyzer                | ROHDE&SCHWARZ                     | FSW43               | SUWI-01-02-04 | 1/20/2025  | 1/19/2026    |
| Signal Analyzer                | KEYSIGHT                          | N9020A              | SUWI-01-02-07 | 11/21/2024 | 11/20/2025   |
| Test receiver                  | ROHDE&SCHWARZ                     | ESR7                | SUWI-01-10-01 | 1/15/2025  | 1/14/2026    |
| Receiving antenna              | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | VULB 9163           | SUWI-01-11-01 | 5/13/2023  | 5/12/2025    |
| Receiving antenna              | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | BBHA 9120D          | SUWI-01-11-02 | 5/13/2023  | 5/12/2025    |
| Receiving antenna              | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | BBHA 9170           | SUWI-01-11-03 | 5/12/2023  | 5/11/2025    |
| Active Loop Antenna            | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | FMZB 1519B          | SUWI-01-21-01 | 5/13/2023  | 5/12/2025    |
| Amplifier                      | Tonscend                          | TAP9K3G32           | SUWI-01-14-06 | 11/19/2024 | 11/24/2025   |
| Amplifier                      | Tonscend                          | TAP01018050         | SUWI-01-14-04 | 11/19/2024 | 11/24/2025   |
| Amplifier                      | Tonscend                          | TAP30M7G30          | SUWI-01-14-05 | 11/19/2024 | 11/24/2025   |
| Measurement Software           | Tonscend                          | JS32-RE<br>V4.0.0.0 | SUWI-02-09-04 | NCR        | NCR          |

Remark: NCR=No Calibration Requirement.



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### 4 Measurement Uncertainty (95% confidence levels, k=2)

| No.                                                                                                                                                                                                                                                                                                                                             | Item                          | Measurement Uncertainty    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------|
| 1                                                                                                                                                                                                                                                                                                                                               | Total RF power, conducted     | ±0.54dB                    |
| 2                                                                                                                                                                                                                                                                                                                                               | RF power density, conducted   | ±1.03dB                    |
| 3                                                                                                                                                                                                                                                                                                                                               | Spurious emissions, conducted | ±0.54dB                    |
| 4                                                                                                                                                                                                                                                                                                                                               | Radio Frequency               | 1%                         |
| 5                                                                                                                                                                                                                                                                                                                                               | Duty Cycle                    | ±0.37%                     |
| 6                                                                                                                                                                                                                                                                                                                                               | Occupied Bandwidth            | 1%                         |
| 7                                                                                                                                                                                                                                                                                                                                               | Conduction Emission           | ± 2.90dB (150kHz to 30MHz) |
| 8                                                                                                                                                                                                                                                                                                                                               | Radiated Emission             | ± 3.13dB (9k -30MHz)       |
|                                                                                                                                                                                                                                                                                                                                                 |                               | ± 4.88dB (30M -1GHz)       |
|                                                                                                                                                                                                                                                                                                                                                 |                               | ± 4.75dB (1GHz to 18GHz)   |
|                                                                                                                                                                                                                                                                                                                                                 |                               | ± 4.77dB (Above 18GHz)     |
| Remark:<br>The U <sub>lab</sub> (lab Uncertainty) is less than U <sub>cispr/ETSI</sub> (CISPR/ETSI Uncertainty), so the test results<br>– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;<br>– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. |                               |                            |



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**5 Test results and Measurement Data**

**5.1 Antenna Requirement**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 47 CFR Part 15 Section 15.203 |
| <p>The antenna is IFA Antenna and no consideration of replacement. The best case gain of the antenna is<br/>5150MHz to 5250MHz: -1.6dBi(Ant4); -3.8dBi(Ant5);<br/>5250MHz to 5350MHz: -1.6dBi(Ant4); -3.5dBi(Ant5);<br/>5470MHz to 5725MHz: -2.0dBi(Ant4); -3.3dBi(Ant5);<br/>5725MHz to 5850MHz: -3.7dBi(Ant4); -3.2dBi(Ant5);</p> <p><i>Note:</i><br/><i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i><br/><i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></p> |                               |



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### Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain,  $G_{ANT}$ , Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,  
 $Array\ Gain = 10 \log(N_{ANT}/N_{SS}=1) \text{ dB}$ .
- For power measurements on IEEE 802.11 devices:  
 $Array\ Gain = 0 \text{ dB}$  (i.e., no array gain) for  $N_{ANT} \leq 4$ ;

For power, the directional gain may be calculated by using the formulas applicable to equal gain antennas with  $G_{ANT}$  set equal to the gain of the antenna having the highest gain.

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

**The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.**

The EUT supports CDD System.

| Operation Frequency | ANT Gain0 (dBi) | ANT Gain1 (dBi) | Directional gain For Power (dBi) | Directional gain For PSD (dBi) | Power Limit Reduction (dBm) | PSD Limit Reduction (dBm) |
|---------------------|-----------------|-----------------|----------------------------------|--------------------------------|-----------------------------|---------------------------|
| 5150MHz to 5250MHz  | -1.60           | -3.80           | -1.60                            | 0.38                           | 0                           | 0                         |
| 5250MHz to 5350MHz  | -1.60           | -3.50           | -1.60                            | 0.51                           | 0                           | 0                         |
| 5470MHz to 5725MHz  | -2.00           | -3.30           | -2.00                            | 0.38                           | 0                           | 0                         |
| 5725MHz to 5850MHz  | -3.70           | -3.20           | -3.20                            | -0.44                          | 0                           | 0                         |

5150MHz to 5250MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0

5250MHz to 5350MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0

5470MHz to 5725MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0

5725MHz to 5850MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi ) =0



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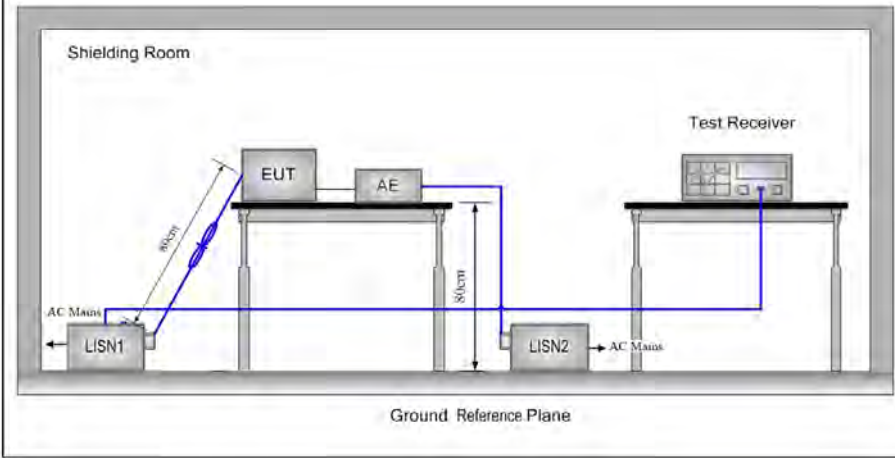
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### 5.2 AC Power Line Conducted Emissions

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|
| Test Requirement:                                | 47 CFR Part 15 Section 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |           |
| Test Method:                                     | ANSI C63.10: 2013 Section 6.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |           |
| Test Frequency Range:                            | 150kHz to 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |           |
| Receiver Setup:                                  | RBW = 9kHz, VBW = 30kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |           |
| Limit:                                           | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Limit (dBuV) |           |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quasi-peak   | Average   |
|                                                  | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 66 to 56*    | 56 to 46* |
|                                                  | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 56           | 46        |
|                                                  | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 60           | 50        |
| * Decreases with the logarithm of the frequency. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |           |
| Test Procedure:                                  | <ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a <math>50\Omega/50\mu\text{H} + 5\Omega</math> linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol> |              |           |

|                        |                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------|
| Test Setup:            |            |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. |
| Final Test Mode:       | Refer to section 2.7 for details.<br>Only the worst case is recorded in the report.          |
| Instruments Used:      | Refer to section 3 for details.                                                              |
| Test Results:          | Pass                                                                                         |



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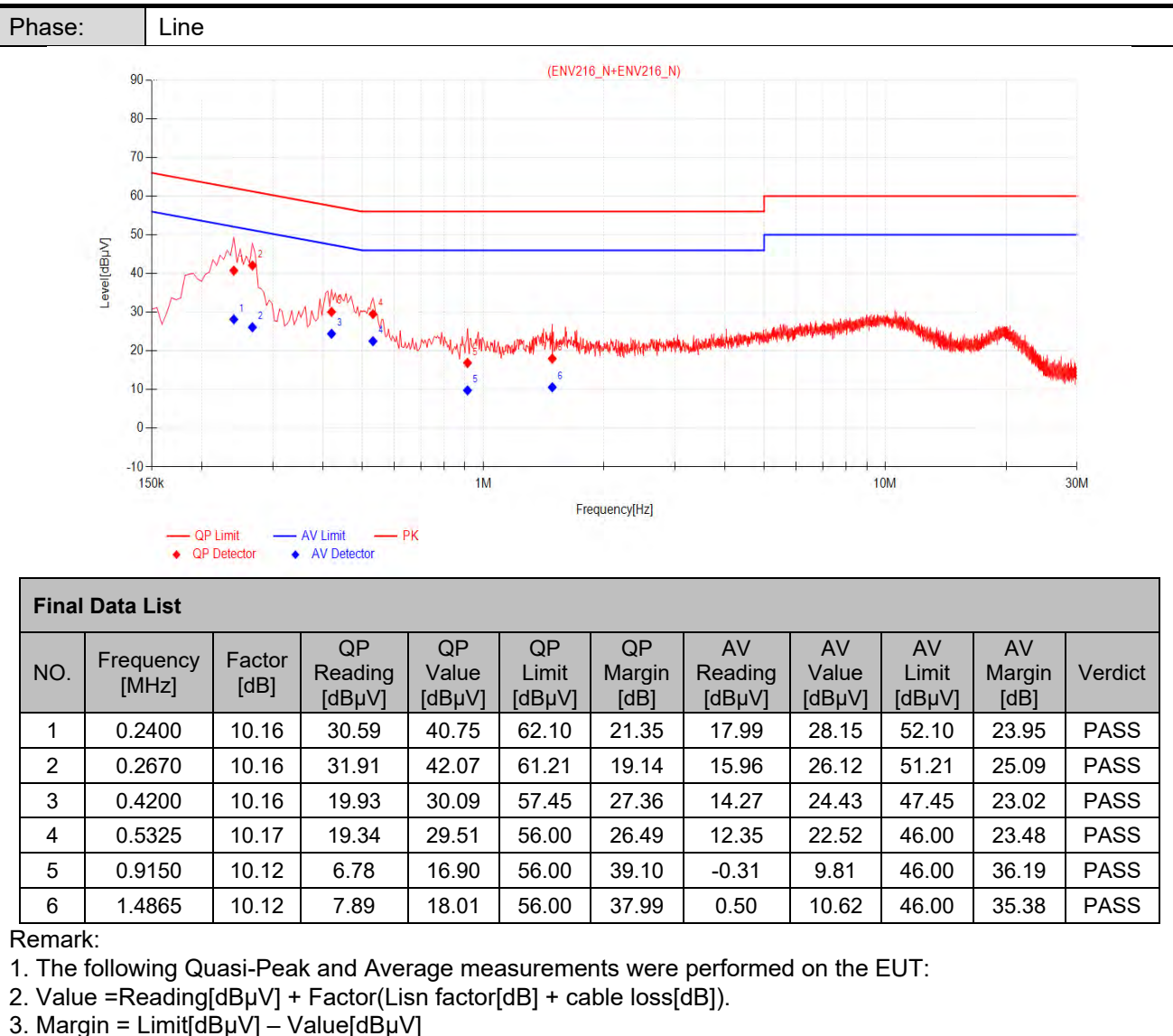
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### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



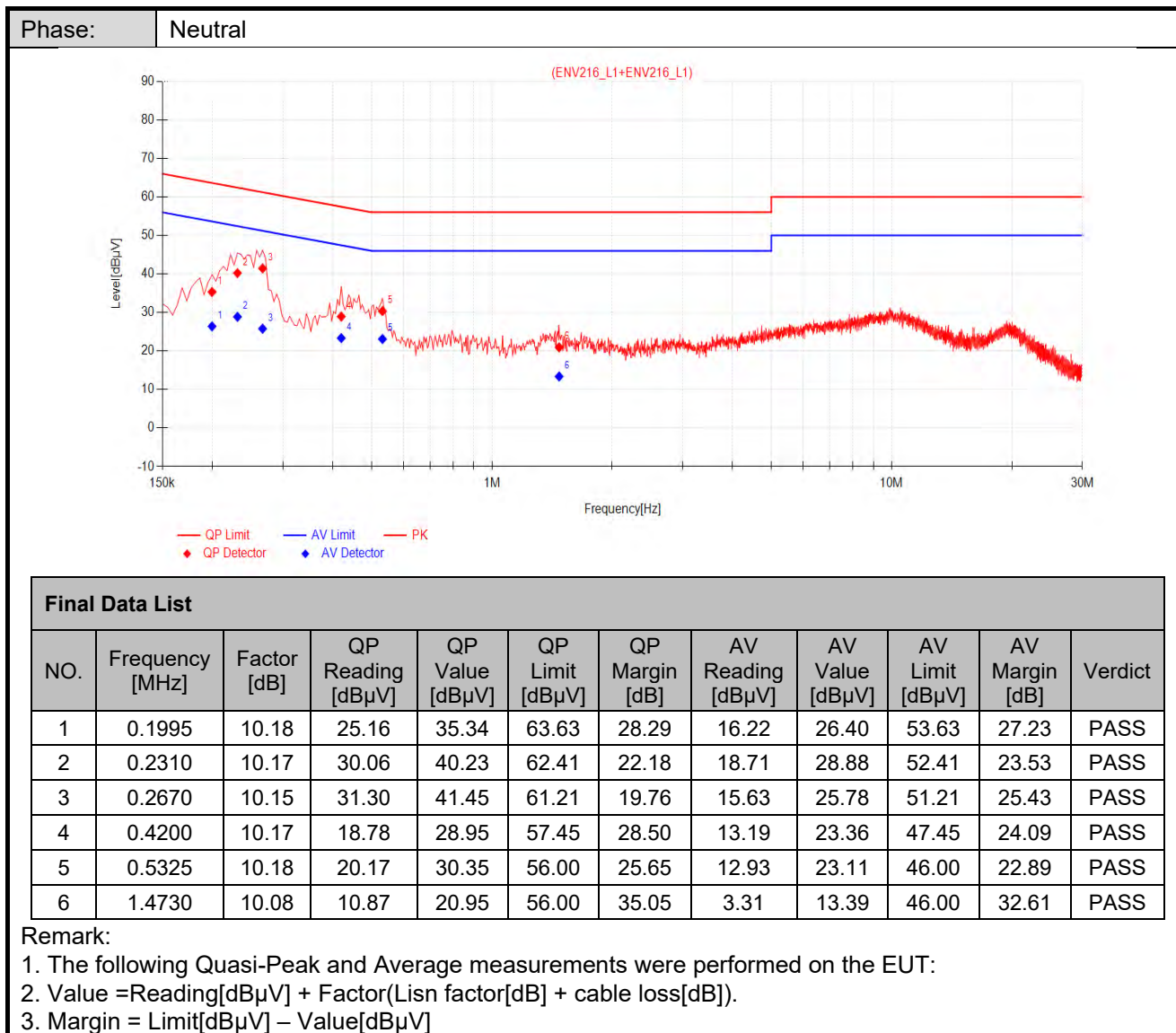


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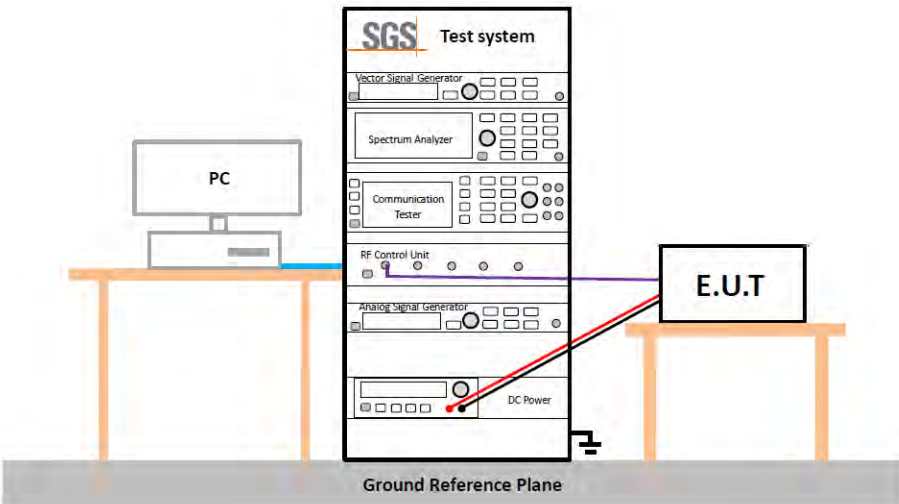
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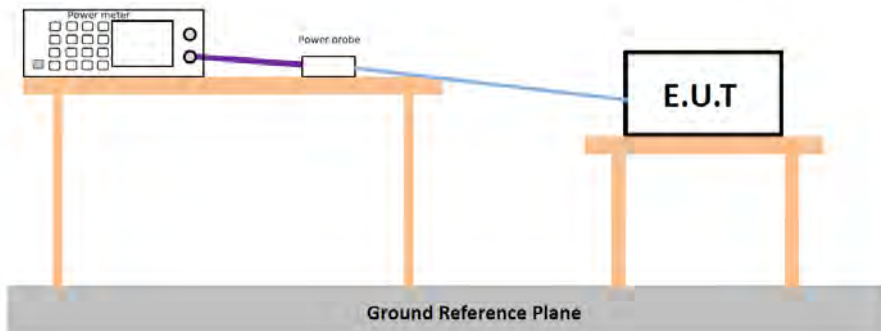
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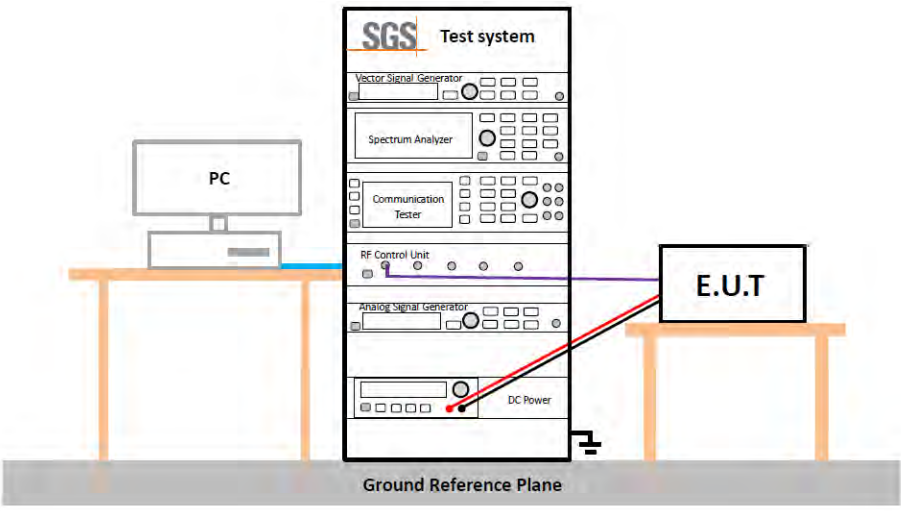
## 5.3 Duty Cycle

|                                             |                                                                                     |
|---------------------------------------------|-------------------------------------------------------------------------------------|
| Test Requirement:                           | ANSI C63.10 :2013 Section 12.2                                                      |
| Test Method:                                | ANSI C63.10 :2013 Section 12.2                                                      |
| Test Setup:                                 |  |
| Instruments Used:                           | Refer to section 3 for details                                                      |
| Exploratory Test Mode:                      | Transmitting with all kind of modulations, data rates                               |
| Final Test Mode:                            | Refer to section 2.7 for details.                                                   |
| Limit:                                      | No restriction limits                                                               |
| Test Results:                               | For report purpose                                                                  |
| The detailed test data see: <b>Appendix</b> |                                                                                     |

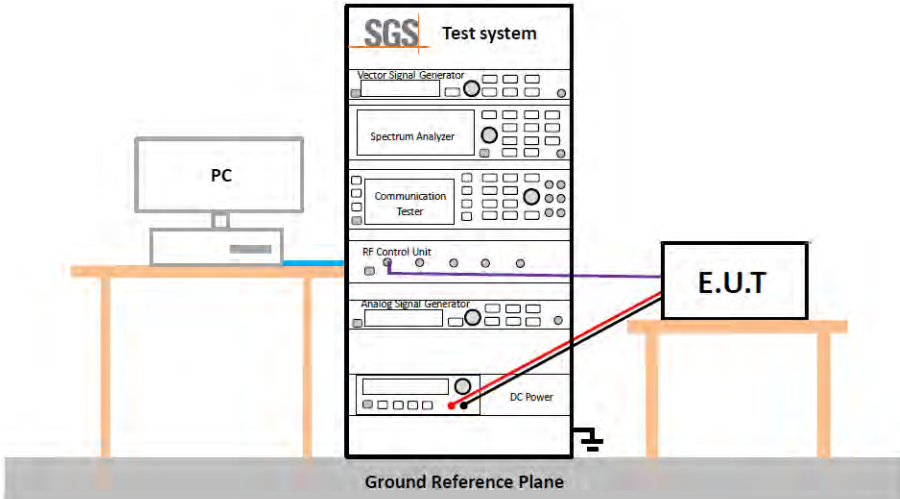
## 5.4 Conducted Output Power

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                             |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Test Requirement:                           | 47 CFR Part 15 Section 15.407(a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                             |
| Test Method:                                | ANSI C63.10 :2013 Section 12.3.3.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |
| Test Setup:                                 | <div></div> <p>* Test with power meter (Detector function: Average)<br/>Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.</p> |                                             |
| Test Instruments:                           | Refer to section 3 for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                             |
| Exploratory Test Mode:                      | Transmitting with all kind of modulations, data rates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |
| Final Test Mode:                            | Refer to section 2.7 for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |
| Limit:                                      | Frequency Band                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Limit                                       |
|                                             | 5150-5250MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Not exceed 250mW(23.98dBm)                  |
|                                             | 5250-5350MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | The lesser of 250mW(23.98dBm) or 11+ 10logB |
|                                             | 5470-5725MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | The lesser of 250mW(23.98dBm) or 11+ 10logB |
|                                             | 5725-5850MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Not exceed 1W(30dBm)                        |
|                                             | *Where B is the 26dB emission bandwidth in MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |
| Test Results:                               | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                             |
| The detailed test data see: <b>Appendix</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                             |

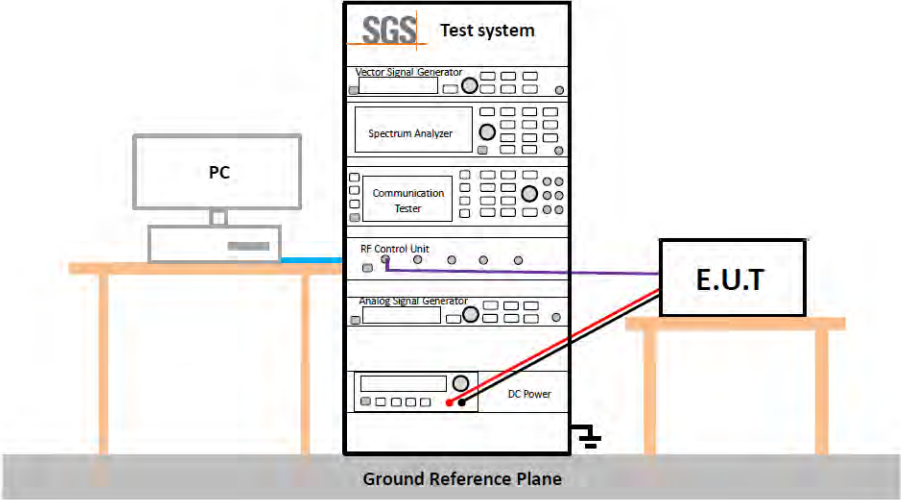
## 5.5 26dB Emission Bandwidth

|                                             |                                                                                     |
|---------------------------------------------|-------------------------------------------------------------------------------------|
| Test Requirement:                           | 47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C                                 |
| Test Method:                                | ANSI C63.10: 2013 Section 12.4.1                                                    |
| Test Setup:                                 |  |
| Instruments Used:                           | Refer to section 3 for details.                                                     |
| Exploratory Test Mode:                      | Transmitting with all kind of modulations, data rates                               |
| Final Test Mode:                            | Refer to section 2.7 for details.                                                   |
| Limit:                                      | No restriction limits                                                               |
| Test Results:                               | For Report Purpose                                                                  |
| The detailed test data see: <b>Appendix</b> |                                                                                     |

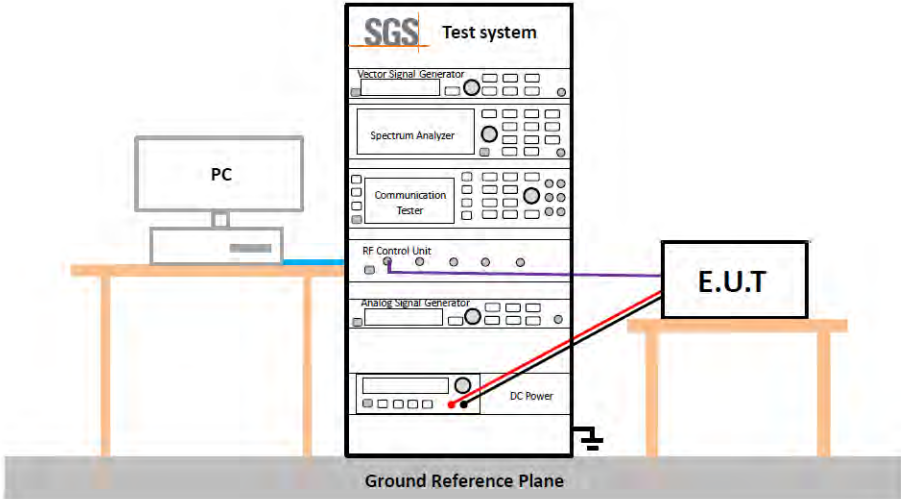
## 5.6 6dB Emission Bandwidth

|                                             |                                                                                     |                 |  |
|---------------------------------------------|-------------------------------------------------------------------------------------|-----------------|--|
| Test Requirement:                           | 47 CFR Part 15 Section 15.407(e)                                                    |                 |  |
| Test Method:                                | ANSI C63.10: 2013 Section 12.4.1                                                    |                 |  |
| Test Setup:                                 |  |                 |  |
| Test Instruments:                           | Refer to section 3 for details.                                                     |                 |  |
| Exploratory Test Mode:                      | Transmitting with all kind of modulations, data rates                               |                 |  |
| Final Test Mode:                            | Refer to section 2.7 for details.                                                   |                 |  |
| Limit:                                      | Frequency Band                                                                      | Limit           |  |
|                                             | 5725-5850MHz                                                                        | At least 500kHz |  |
| Test Results:                               | Pass                                                                                |                 |  |
| The detailed test data see: <b>Appendix</b> |                                                                                     |                 |  |

## 5.7 99% Occupied Bandwidth

|                                             |                                                                                     |
|---------------------------------------------|-------------------------------------------------------------------------------------|
| Test Requirement:                           | KDB 789033 D02§ D                                                                   |
| Test Method:                                | ANSI C63.10: 2013 Section 12.4.2                                                    |
| Test Setup:                                 |  |
| Instruments Used:                           | Refer to section 3 for details.                                                     |
| Exploratory Test Mode:                      | Transmitting with all kind of modulations, data rates                               |
| Final Test Mode:                            | Refer to section 2.7 for details.                                                   |
| Limit:                                      | No restriction limits                                                               |
| Test Results:                               | For Report Purpose                                                                  |
| The detailed test data see: <b>Appendix</b> |                                                                                     |

## 5.8 Power Spectral Density

|                                             |                                                                                     |                                                    |  |
|---------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------|--|
| Test Requirement:                           | 47 CFR Part 15 Section 15.407(a)                                                    |                                                    |  |
| Test Method:                                | ANSI C63.10: 2013 Section 12.5<br>KDB 789033 D02 v02r01, Section F.                 |                                                    |  |
| Test Setup:                                 |  |                                                    |  |
| Instruments Used:                           | Refer to section 3 for details.                                                     |                                                    |  |
| Exploratory Test Mode:                      | Transmitting with all kind of modulations, data rates                               |                                                    |  |
| Final Test Mode:                            | Refer to section 2.7 for details.                                                   |                                                    |  |
| Limit:                                      | Frequency Band                                                                      | Limit                                              |  |
|                                             | 5150-5250MHz                                                                        | The power spectral density less than 11dBm/1MHz    |  |
|                                             | 5250-5350MHz                                                                        | The power spectral density less than 11dBm/1MHz    |  |
|                                             | 5470-5725MHz                                                                        | The power spectral density less than 11dBm/1MHz    |  |
|                                             | 5725-5850MHz                                                                        | The power spectral density less than <30dBm/500KHz |  |
| Test Results:                               | Pass                                                                                |                                                    |  |
| The detailed test data see: <b>Appendix</b> |                                                                                     |                                                    |  |

### 5.9 Radiated Spurious Emissions

|                   |                                                         |
|-------------------|---------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15 Section 15.205 and 15.209                |
| Test Method:      | ANSI C63.10: 2013 Section 6.4 / 6.5 / 6.6               |
| Test Site:        | Measurement Distance: 3m or 10m (Semi-Anechoic Chamber) |
| Test frequency:   | 9kHz ~ 40GHz(or 10 Harmonic)                            |

Test Setup:

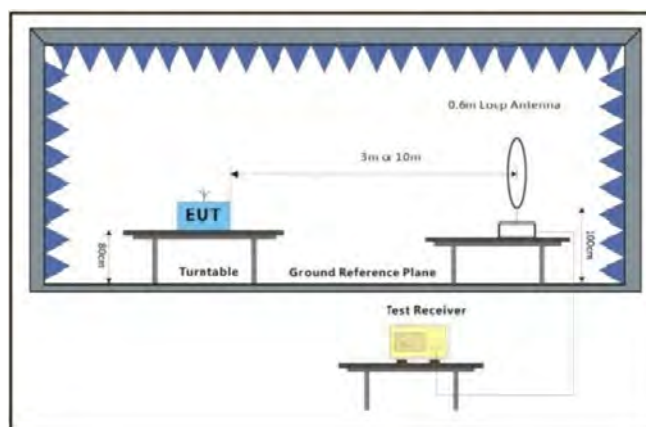


Figure 1. 9kHz to 30MHz

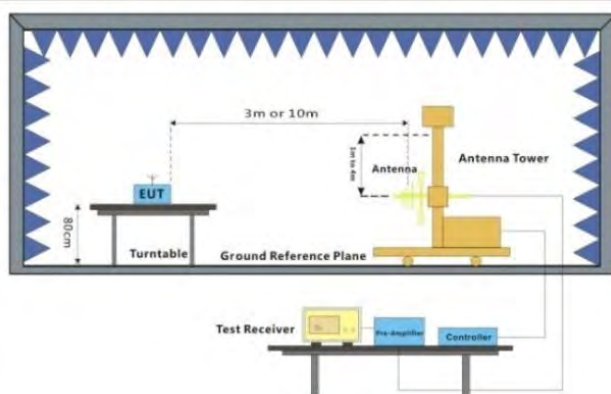


Figure 1. 30MHz to 1GHz

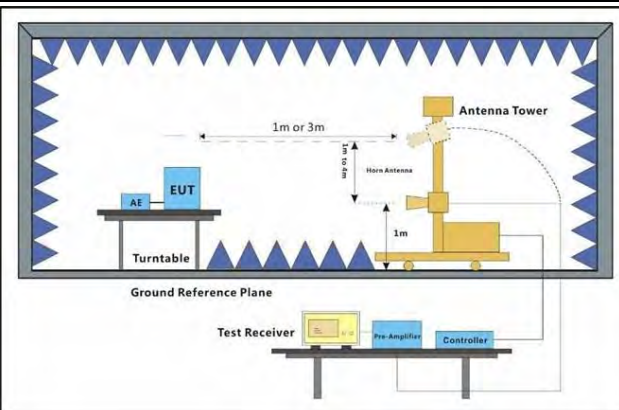


Figure 2. Above 1 GHz

Test Procedure:

- For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (Distance from antenna to EUT is 1m for measurements >18GHz).
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the



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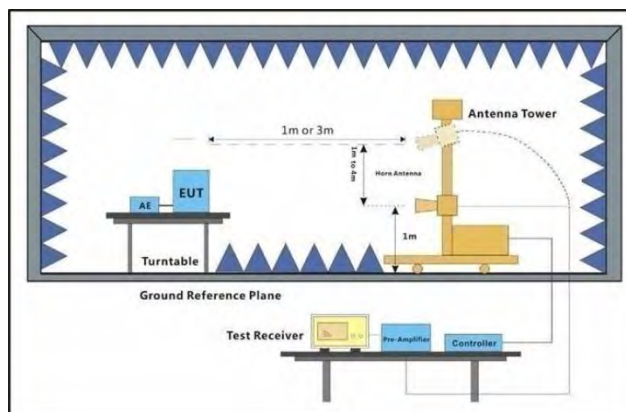
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|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                             | <p>rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the outermost channels.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by <math>20 \times \text{LOG}(3/1) = 9.54 \text{ dB}</math>.</p>                                                                                                                |
| Test Configuration:                         | <p>Measurements below 30MHz</p> <ul style="list-style-type: none"> <li>• RBW = 10 kHz</li> <li>• VBW = 30 kHz</li> <li>• Detector = Peak &amp; Average &amp; Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq 3 \text{ MHz}</math></li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW <math>\geq 1/T</math>, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul> |
| Exploratory Test Mode:                      | Transmitting with all kind of modulations, data rates.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Final Test Mode:                            | <p>Refer to section 2.7 for details.</p> <p>For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Instruments Used:                           | Refer to section 3 for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Results:                               | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| The detailed test data see: <b>Appendix</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 5.10 Restricted bands around fundamental frequency

|                   |                                                  |                |               |
|-------------------|--------------------------------------------------|----------------|---------------|
| Test Requirement: | 47 CFR Part 15 Section 15.407(b)                 |                |               |
| Test Method:      | ANSI C63.10: 2013 Section 12.7                   |                |               |
| Test Site:        | Measurement Distance: 3m (Semi-Anechoic Chamber) |                |               |
| Limit:            | Frequency                                        | Limit (dBuV/m) | Remark        |
|                   | 30MHz-88MHz                                      | 40.0           | Quasi-peak    |
|                   | 88MHz-216MHz                                     | 43.5           | Quasi-peak    |
|                   | 216MHz-960MHz                                    | 46.0           | Quasi-peak    |
|                   | 960MHz-1GHz                                      | 54.0           | Quasi-peak    |
|                   | Above 1GHz                                       | 54.0           | Average Value |
|                   |                                                  | 74.0           | Peak Value    |

### Test Setup:



### Test Procedure:

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel.
- Test the EUT in the outermost channels.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.



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|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Configuration:                         | <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"><li>• RBW = 120 kHz</li><li>• VBW = 300 kHz</li><li>• Detector = Quasi-peak</li><li>• Trace mode = max hold</li></ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"><li>• RBW = 1 MHz</li><li>• VBW <math>\geq</math> 3 MHz</li><li>• Detector = Peak</li><li>• Sweep time = auto</li><li>• Trace mode = max hold</li></ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"><li>• RBW = 1 MHz</li><li>• VBW = 10Hz, when duty cycle is no less than 98 percent.</li><li>• VBW <math>\geq</math> 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li></ul> |
| Exploratory Test Mode:                      | Transmitting with all kind of modulations, data rates.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Final Test Mode:                            | Refer to section 2.7 for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Instruments Used:                           | Refer to section 3 for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test Results:                               | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| The detailed test data see: <b>Appendix</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## 5.11 Dynamic Frequency Selection

### 5.11.1 DFS Overview

**Table 1: Applicability of DFS Requirements Prior to Use of a Channel**

| Requirement                            | Operational Mode |                                |                             |
|----------------------------------------|------------------|--------------------------------|-----------------------------|
|                                        | Master           | Client Without Radar Detection | Client With Radar Detection |
| <i>Non-Occupancy Period</i>            | Yes              | Not required                   | Yes                         |
| <i>DFS Detection Threshold</i>         | Yes              | Not required                   | Yes                         |
| <i>Channel Availability Check Time</i> | Yes              | Not required                   | Not required                |
| <i>U-NII Detection Bandwidth</i>       | Yes              | Not required                   | Yes                         |

**Table 2: Applicability of DFS requirements during normal operation**

| Requirement                                                                                                                                                                                                                                                                                                                                                  | Operational Mode                                    |                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                              | Master Device or Client with Radar Detection        | Client Without Radar Detection                       |
| <i>DFS Detection Threshold</i>                                                                                                                                                                                                                                                                                                                               | Yes                                                 | Not required                                         |
| <i>Channel Closing Transmission Time</i>                                                                                                                                                                                                                                                                                                                     | Yes                                                 | Yes                                                  |
| <i>Channel Move Time</i>                                                                                                                                                                                                                                                                                                                                     | Yes                                                 | Yes                                                  |
| <i>U-NII Detection Bandwidth</i>                                                                                                                                                                                                                                                                                                                             | Yes                                                 | Not required                                         |
| <b>Additional requirements for devices with multiple bandwidth modes</b>                                                                                                                                                                                                                                                                                     | <b>Master Device or Client with Radar Detection</b> | <b>Client Without Radar Detection</b>                |
| <i>U-NII Detection Bandwidth and Statistical Performance Check</i>                                                                                                                                                                                                                                                                                           | All BW modes must be tested                         | Not required                                         |
| <i>Channel Move Time and Channel Closing Transmission Time</i>                                                                                                                                                                                                                                                                                               | Test using widest BW mode available                 | Test using the widest BW mode available for the link |
| <i>All other tests</i>                                                                                                                                                                                                                                                                                                                                       | Any single BW mode                                  | Not required                                         |
| <b>Note:</b> Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency. |                                                     |                                                      |

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### 5.11.2 DFS Detection Thresholds

**Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection**

| Maximum Transmit Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Value<br>(See Notes 1, 2, and 3) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| EIRP $\geq$ 200 milliwatt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -64 dBm                          |
| EIRP $<$ 200 milliwatt and power spectral density $<$ 10 dBm/MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -62 dBm                          |
| EIRP $<$ 200 milliwatt that do not meet the power spectral density requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -64 dBm                          |
| <p><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> <p><b>Note3:</b> EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p> |                                  |

### 5.11.3 RADAR TEST WAVEFORMS

**Table 5 – Short Pulse Radar Test Waveforms**

| Radar Type                                                                                                                                         | Pulse Width ( $\mu$ sec) | PRI ( $\mu$ sec)                                                                                                                                                                                                                                                                                    | Number of Pulses                                                                                                                     | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|
| 0                                                                                                                                                  | 1                        | 1428                                                                                                                                                                                                                                                                                                | 18                                                                                                                                   | See Note 1                                 | See Note 1               |
| 1                                                                                                                                                  | 1                        | <p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>Test B: 15 unique PRI values randomly selected within the range of 518-3066 <math>\mu</math>sec, with a minimum increment of 1 <math>\mu</math>sec, excluding PRI values selected in Test A</p> | $\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$ | 60%                                        | 30                       |
| 2                                                                                                                                                  | 1-5                      | 150-230                                                                                                                                                                                                                                                                                             | 23-29                                                                                                                                | 60%                                        | 30                       |
| 3                                                                                                                                                  | 6-10                     | 200-500                                                                                                                                                                                                                                                                                             | 16-18                                                                                                                                | 60%                                        | 30                       |
| 4                                                                                                                                                  | 11-20                    | 200-500                                                                                                                                                                                                                                                                                             | 12-16                                                                                                                                | 60%                                        | 30                       |
| Aggregate (Radar Types 1-4)                                                                                                                        |                          |                                                                                                                                                                                                                                                                                                     |                                                                                                                                      | 80%                                        | 120                      |
| <p><b>Note 1:</b> Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.</p> |                          |                                                                                                                                                                                                                                                                                                     |                                                                                                                                      |                                            |                          |

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**Table 5a - Pulse Repetition Intervals Values for Test A**

| Pulse Repetition Frequency Number | Pulse Repetition Frequency (Pulses Per Second) | Pulse Repetition Interval (Microseconds) |
|-----------------------------------|------------------------------------------------|------------------------------------------|
| 1                                 | 1930.5                                         | 518                                      |
| 2                                 | 1858.7                                         | 538                                      |
| 3                                 | 1792.1                                         | 558                                      |
| 4                                 | 1730.1                                         | 578                                      |
| 5                                 | 1672.2                                         | 598                                      |
| 6                                 | 1618.1                                         | 618                                      |
| 7                                 | 1567.4                                         | 638                                      |
| 8                                 | 1519.8                                         | 658                                      |
| 9                                 | 1474.9                                         | 678                                      |
| 10                                | 1432.7                                         | 698                                      |
| 11                                | 1392.8                                         | 718                                      |
| 12                                | 1355                                           | 738                                      |
| 13                                | 1319.3                                         | 758                                      |
| 14                                | 1285.3                                         | 778                                      |
| 15                                | 1253.1                                         | 798                                      |
| 16                                | 1222.5                                         | 818                                      |
| 17                                | 1193.3                                         | 838                                      |
| 18                                | 1165.6                                         | 858                                      |
| 19                                | 1139                                           | 878                                      |
| 20                                | 1113.6                                         | 898                                      |
| 21                                | 1089.3                                         | 918                                      |
| 22                                | 1066.1                                         | 938                                      |
| 23                                | 326.2                                          | 3066                                     |

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

| Radar Type                                           | Number of Trials | Number of Successful Detections | Minimum Percentage of Successful Detection |
|------------------------------------------------------|------------------|---------------------------------|--------------------------------------------|
| 1                                                    | 35               | 29                              | 82.9%                                      |
| 2                                                    | 30               | 18                              | 60%                                        |
| 3                                                    | 30               | 27                              | 90%                                        |
| 4                                                    | 50               | 44                              | 88%                                        |
| Aggregate $(82.9\% + 60\% + 90\% + 88\%)/4 = 80.2\%$ |                  |                                 |                                            |

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**Table 6 – Long Pulse Radar Test Waveform**

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses per Burst | Number of Bursts | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|------------|--------------------|-------------------|------------|----------------------------|------------------|--------------------------------------------|--------------------------|
| 5          | 50-100             | 5-20              | 1000-2000  | 1-3                        | 8-20             | 80%                                        | 30                       |

**Table 7 – Frequency Hopping Radar Test Waveform**

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|--------------------------------------------|--------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 70%                                        | 30                       |

### 5.11.4 Response Requirements

**Table 4: DFS Response Requirement Values**

| Parameter                                | Value                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <i>Non-occupancy period</i>              | Minimum 30 minutes                                                                                        |
| <i>Channel Availability Check Time</i>   | 60 seconds                                                                                                |
| <i>Channel Move Time</i>                 | 10 seconds<br>See Note 1.                                                                                 |
| <i>Channel Closing Transmission Time</i> | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.<br>See Notes 1 and 2. |
| <i>U-NII Detection Bandwidth</i>         | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.                                   |

**Note 1:** *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

**Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel move* (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

**Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

The detailed test data see: **Appendix**



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### **6 Photographs - Setup Photos**

Refer to Appendix A.2 BT&WLAN&NFC Setup Photos.



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## 7 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

##### 1.1.1 Ant4

| Ant4              |         |                 |    |        |           |             |                |                                   |                       |
|-------------------|---------|-----------------|----|--------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| 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            | /  | /      | 1.393     | 1.435       | 97.07          | 0.13                              | 0.00                  |
| 802.11n (HT20)    | MIMO    | 5180            | /  | /      | 1.014     | 1.057       | 95.93          | 0.18                              | 0.03                  |
| 802.11n (HT40)    | MIMO    | 5190            | /  | /      | 0.534     | 0.577       | 92.55          | 0.34                              | 0.07                  |
| 802.11ac (VHT20)  | MIMO    | 5180            | /  | /      | 1.014     | 1.057       | 95.93          | 0.18                              | 0.07                  |
| 802.11ac (VHT40)  | MIMO    | 5190            | /  | /      | 0.534     | 0.577       | 92.55          | 0.34                              | 0.03                  |
| 802.11ac (VHT80)  | MIMO    | 5210            | /  | /      | 0.288     | 0.330       | 87.27          | 0.59                              | 0.06                  |
| 802.11ac (VHT160) | MIMO    | 5570            | /  | /      | 0.288     | 0.331       | 87.01          | 0.60                              | 0.25                  |
| 802.11ax (HEW20)  | MIMO    | 5180            | SU | /      | 1.014     | 1.057       | 95.93          | 0.18                              | 0.03                  |
| 802.11ax (HEW40)  | MIMO    | 5190            | SU | /      | 0.534     | 0.577       | 92.55          | 0.34                              | 0.07                  |
| 802.11ax (HEW80)  | MIMO    | 5210            | SU | /      | 0.290     | 0.330       | 87.88          | 0.56                              | 0.09                  |
| 802.11ax (HEW160) | MIMO    | 5570            | SU | /      | 0.288     | 0.330       | 87.27          | 0.59                              | 0.06                  |

##### 1.1.2 Ant5

| Ant5              |         |                 |    |        |           |             |                |                                   |                       |
|-------------------|---------|-----------------|----|--------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| 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            | /  | /      | 1.393     | 1.435       | 97.07          | 0.13                              | 0.00                  |
| 802.11n (HT20)    | MIMO    | 5180            | /  | /      | 1.014     | 1.057       | 95.93          | 0.18                              | 0.03                  |
| 802.11n (HT40)    | MIMO    | 5190            | /  | /      | 0.534     | 0.577       | 92.55          | 0.34                              | 0.07                  |
| 802.11ac (VHT20)  | MIMO    | 5180            | /  | /      | 1.015     | 1.058       | 95.94          | 0.18                              | 0.03                  |
| 802.11ac (VHT40)  | MIMO    | 5190            | /  | /      | 0.534     | 0.578       | 92.39          | 0.34                              | 0.13                  |
| 802.11ac (VHT80)  | MIMO    | 5210            | /  | /      | 0.287     | 0.330       | 86.97          | 0.61                              | 0.06                  |
| 802.11ac (VHT160) | MIMO    | 5570            | /  | /      | 0.290     | 0.330       | 87.88          | 0.56                              | 0.06                  |
| 802.11ax (HEW20)  | MIMO    | 5180            | SU | /      | 1.014     | 1.057       | 95.93          | 0.18                              | 0.04                  |
| 802.11ax (HEW40)  | MIMO    | 5190            | SU | /      | 0.534     | 0.577       | 92.55          | 0.34                              | 0.07                  |
| 802.11ax          | MIMO    | 5210            | SU | /      | 0.290     | 0.331       | 87.61          | 0.57                              | 0.09                  |



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|                      |      |      |    |   |       |       |       |      |      |
|----------------------|------|------|----|---|-------|-------|-------|------|------|
| (HEW80)              |      |      |    |   |       |       |       |      |      |
| 802.11ax<br>(HEW160) | MIMO | 5570 | SU | / | 0.288 | 0.330 | 87.27 | 0.59 | 0.09 |

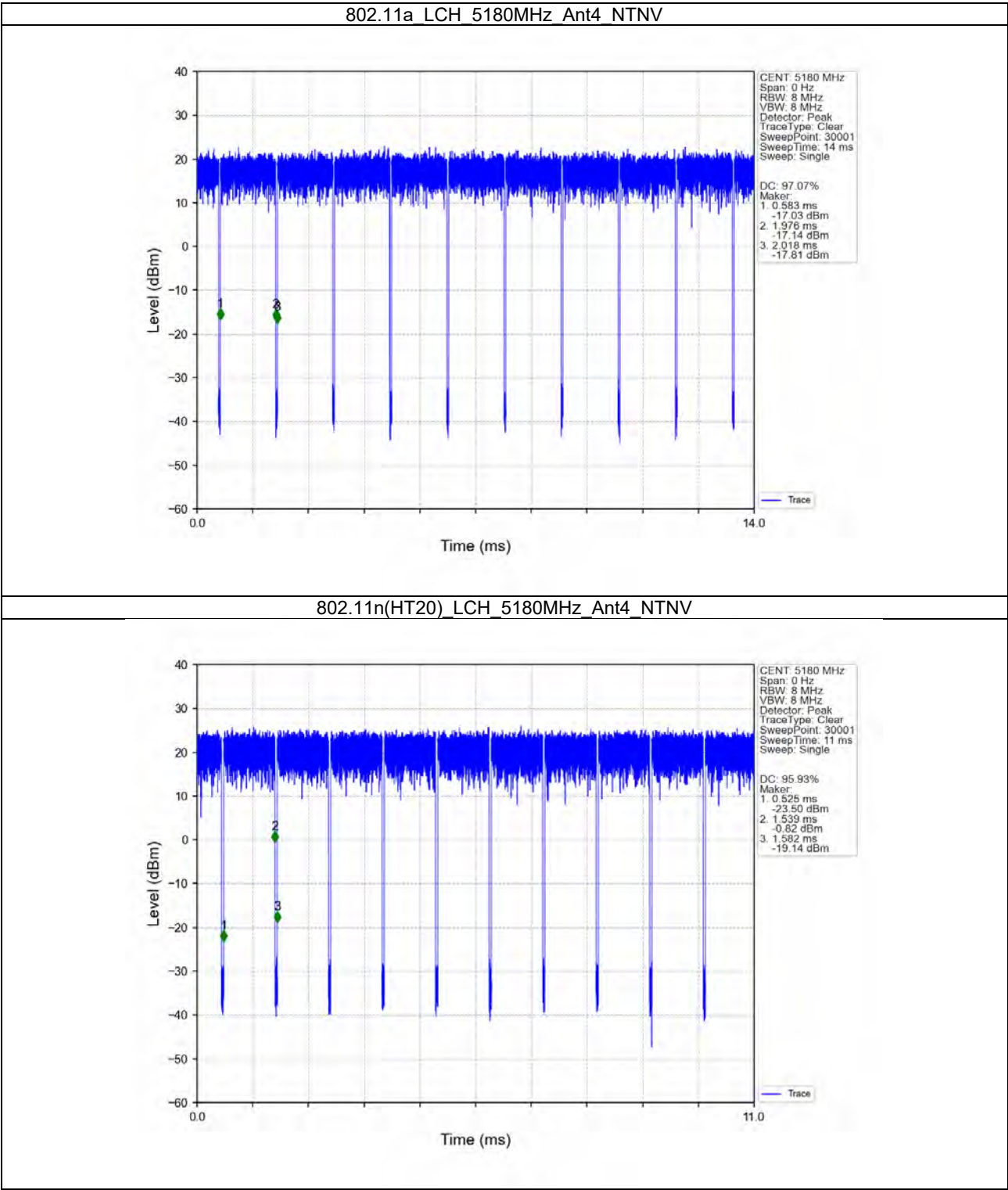


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1.2 Test Graph

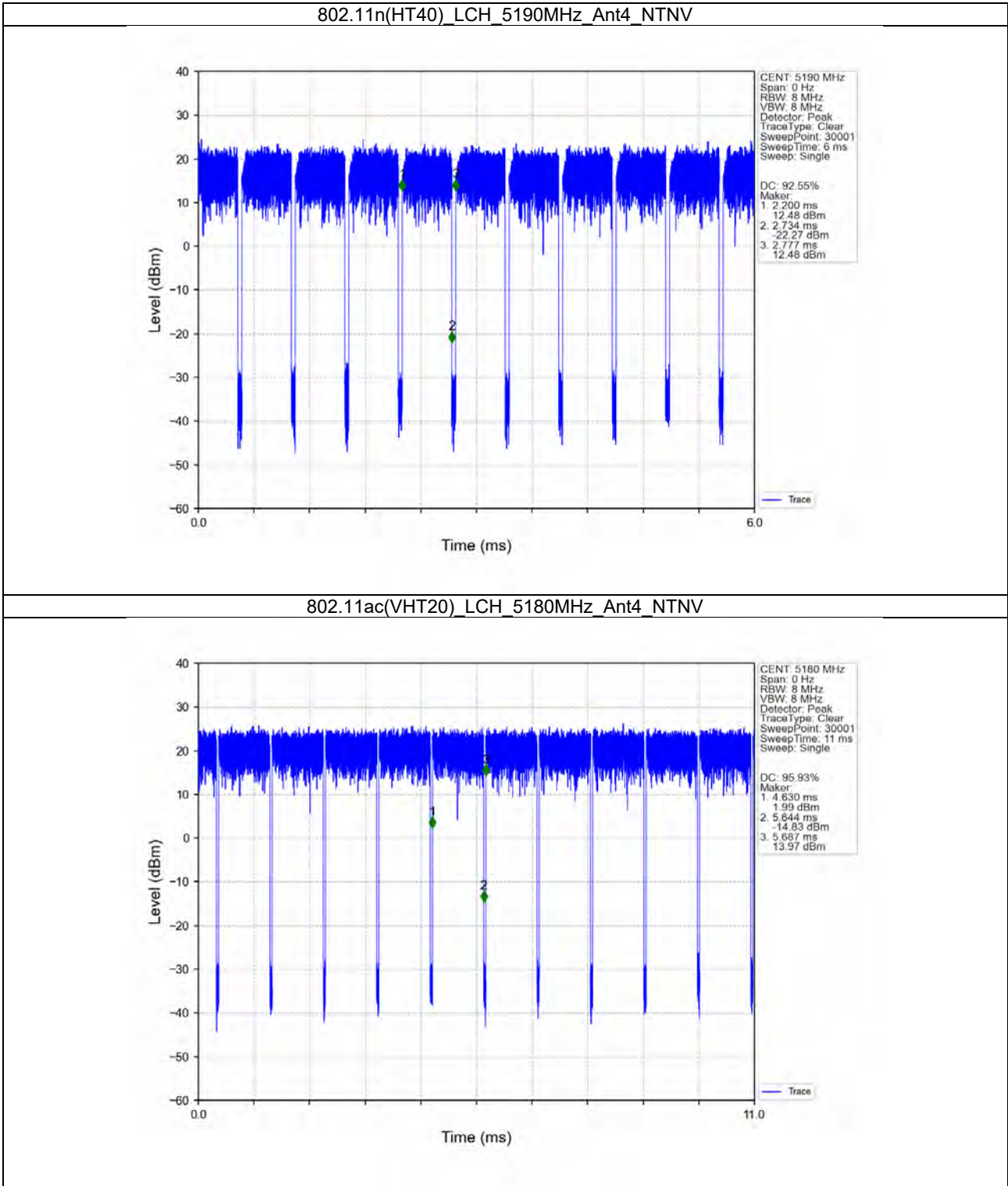
1.2.1 Ant4





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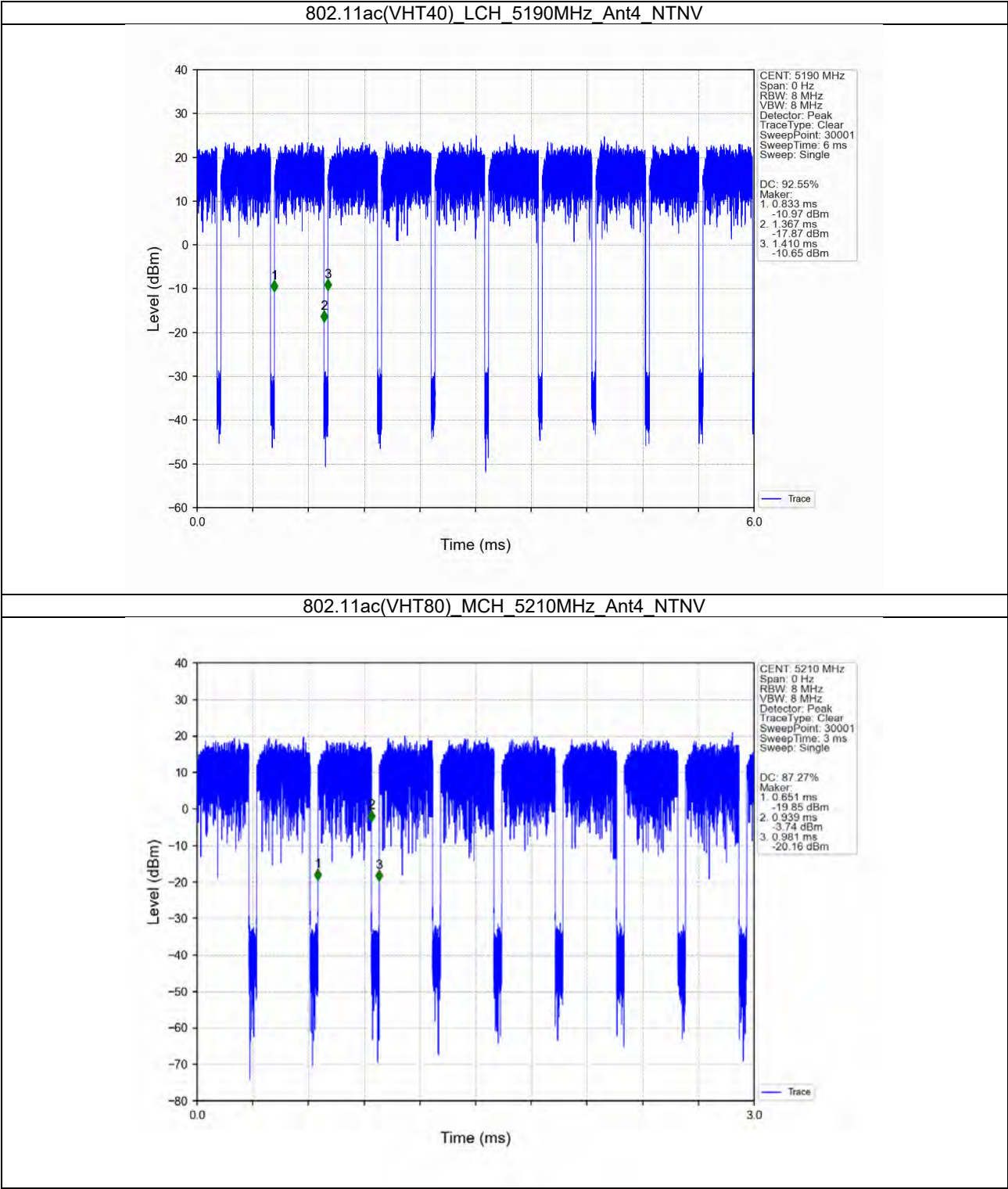
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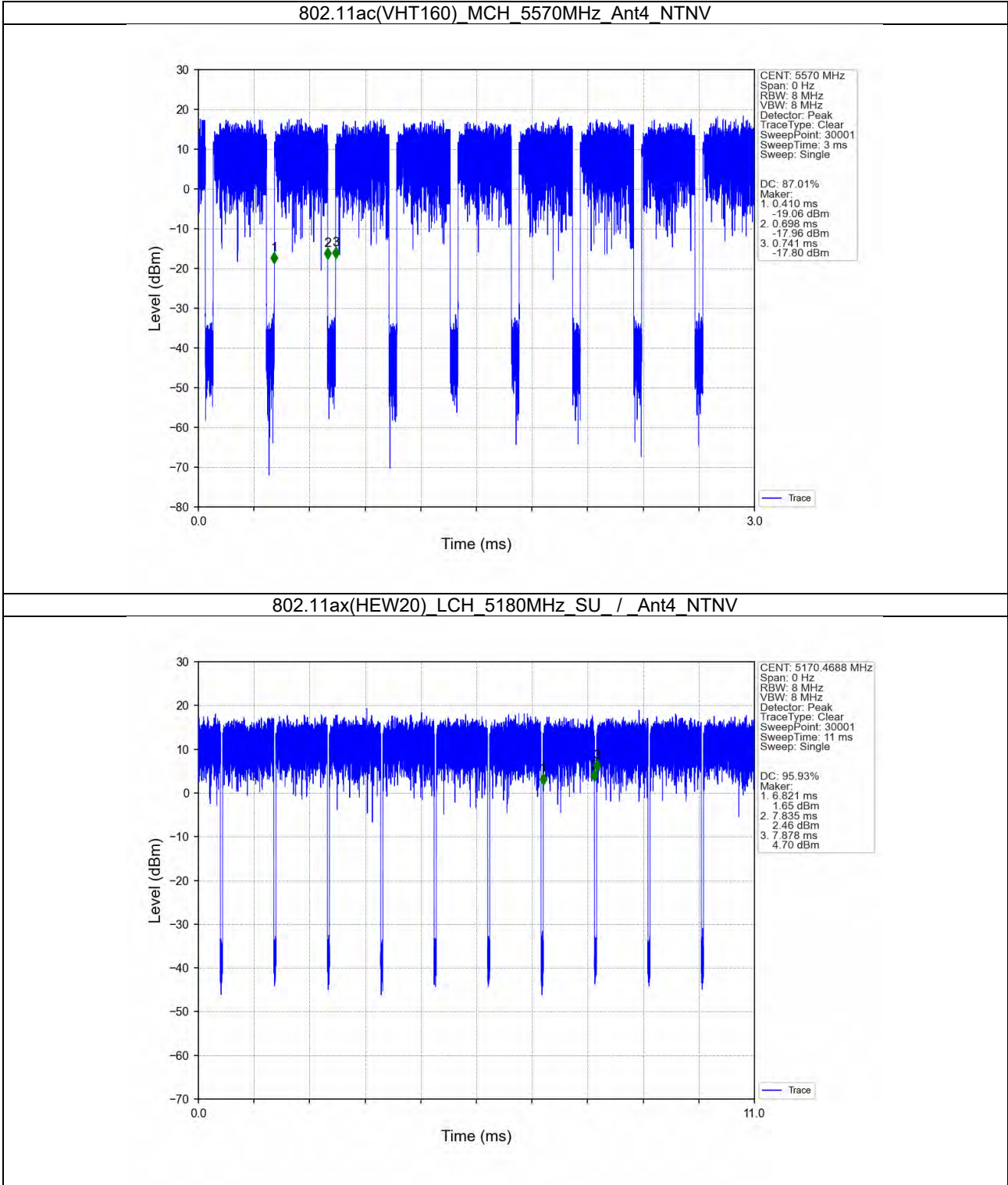
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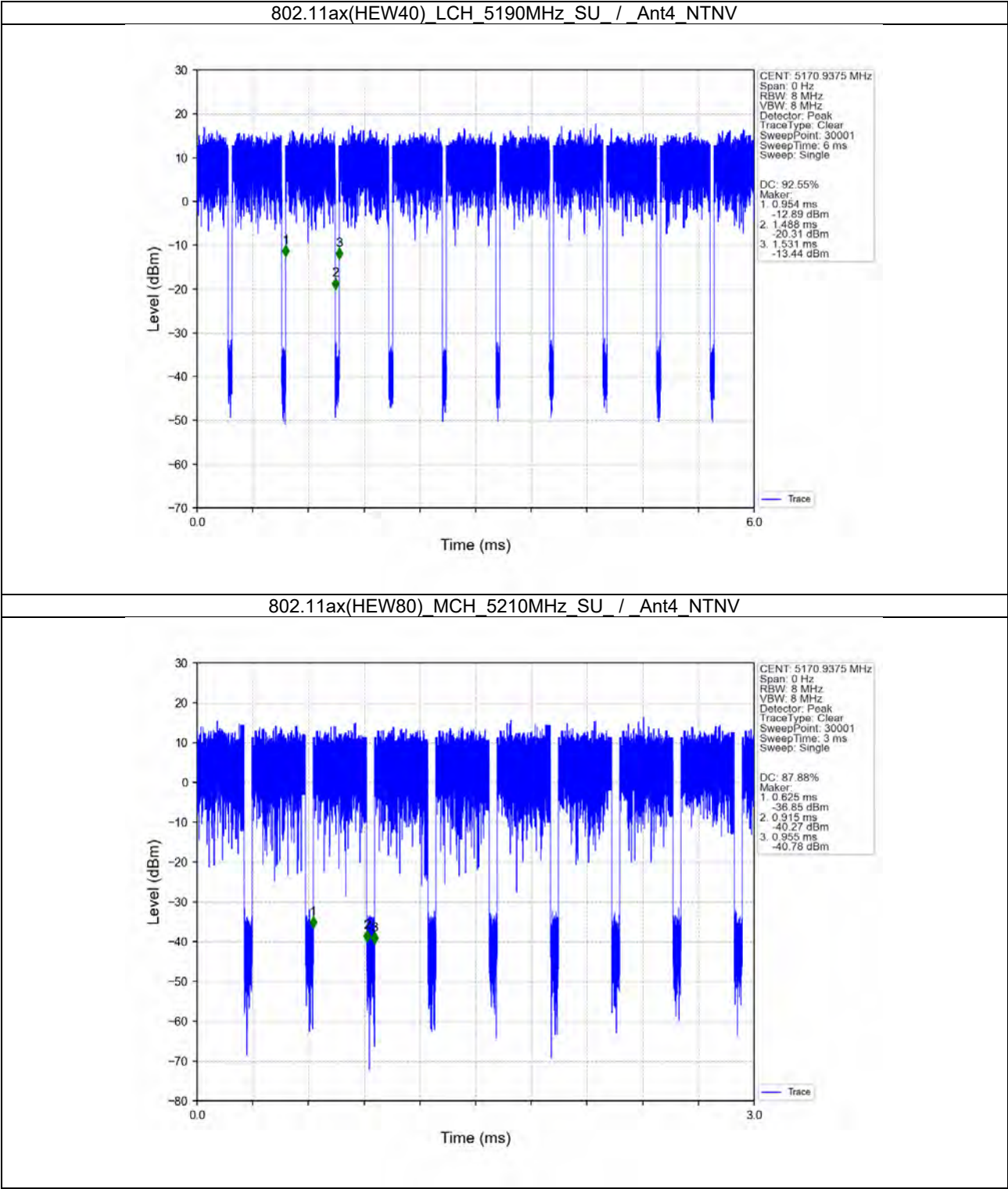
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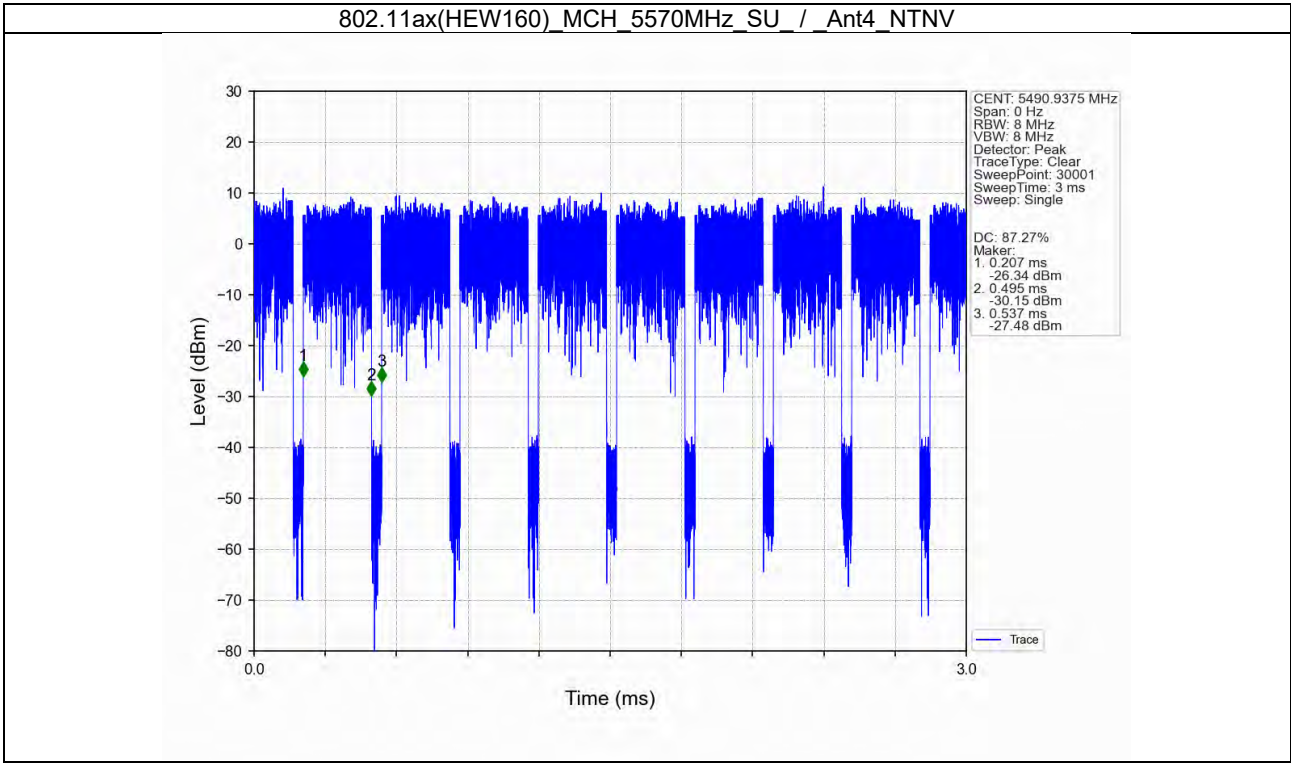
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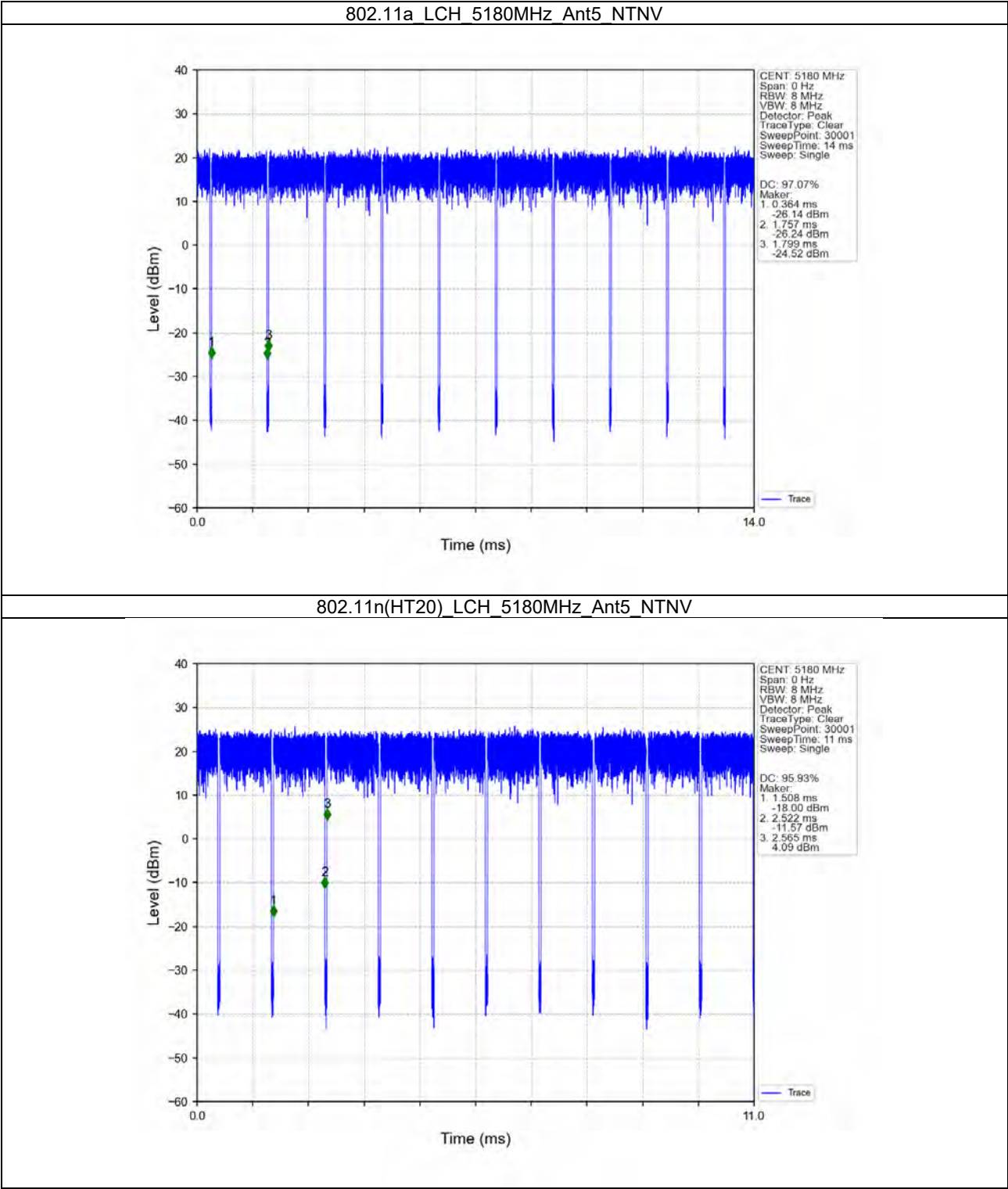




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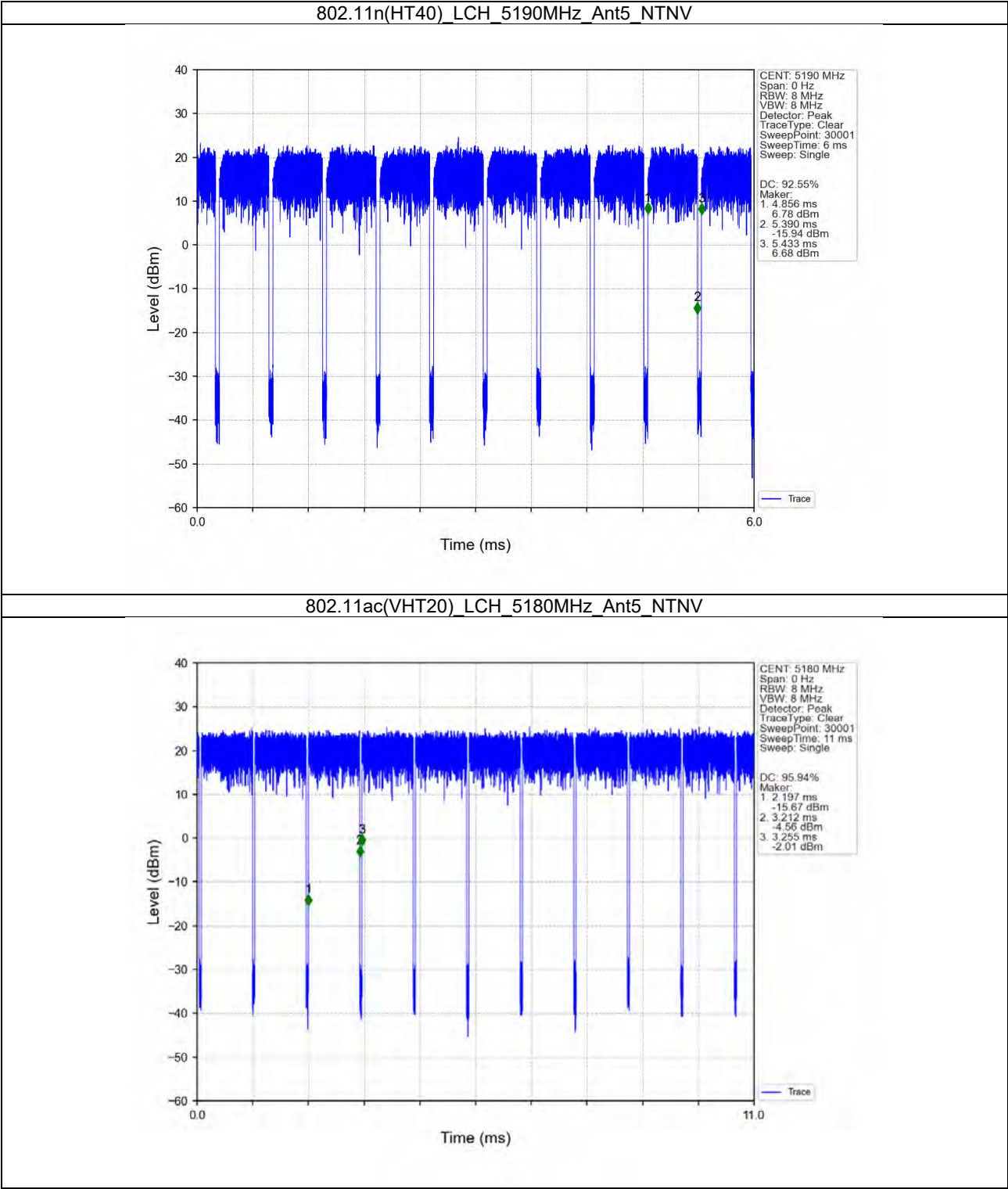
1.2.2 Ant5





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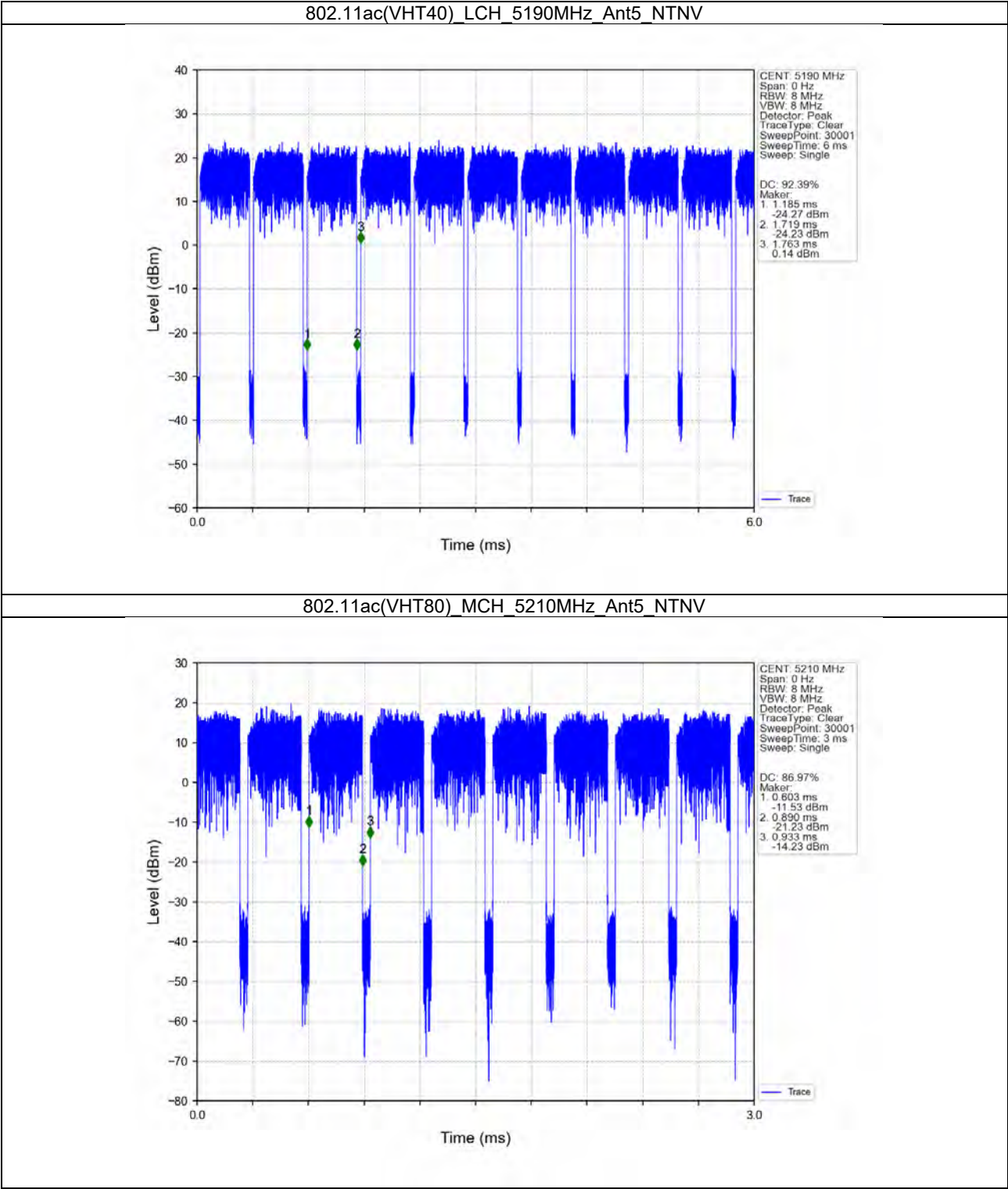
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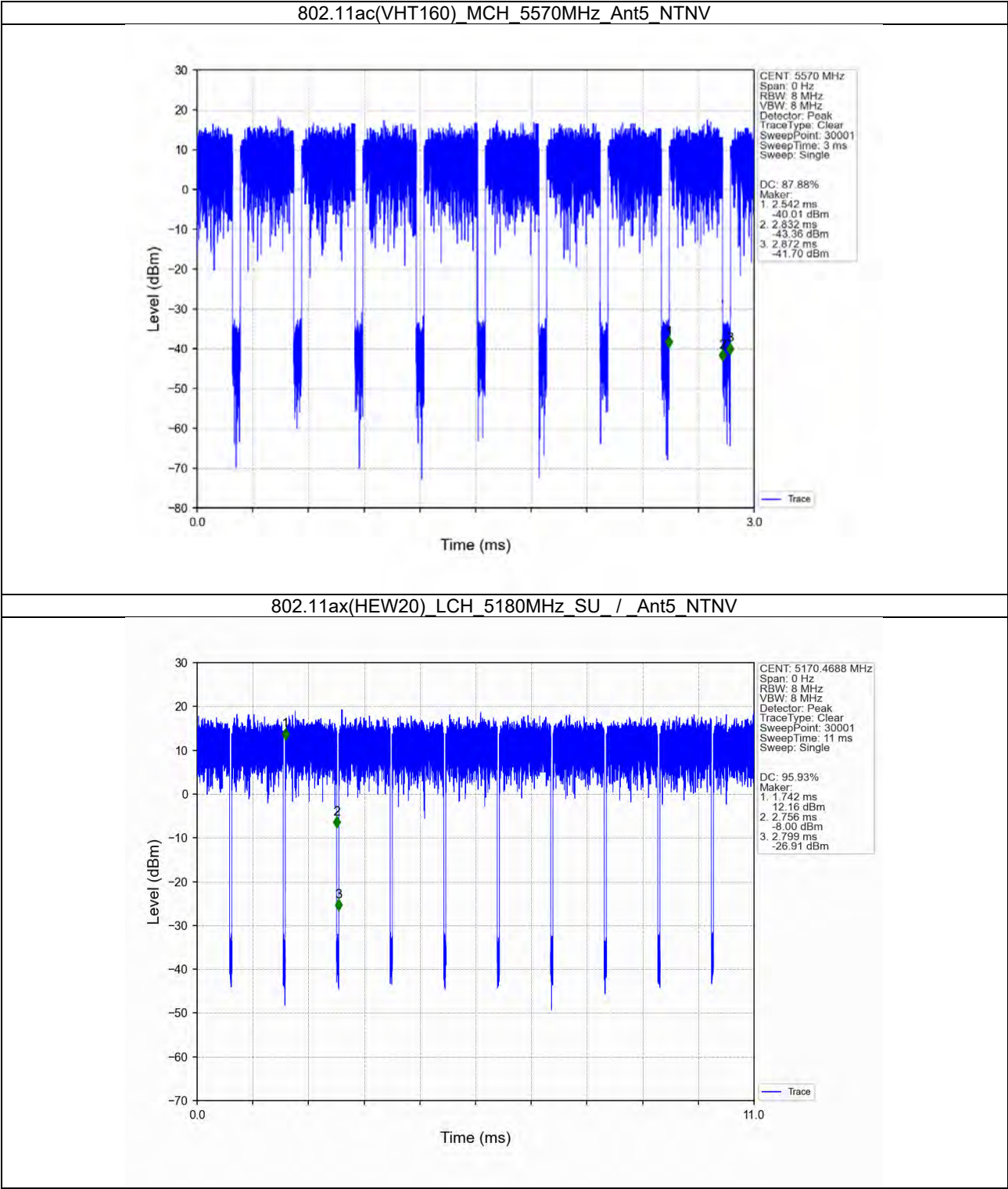
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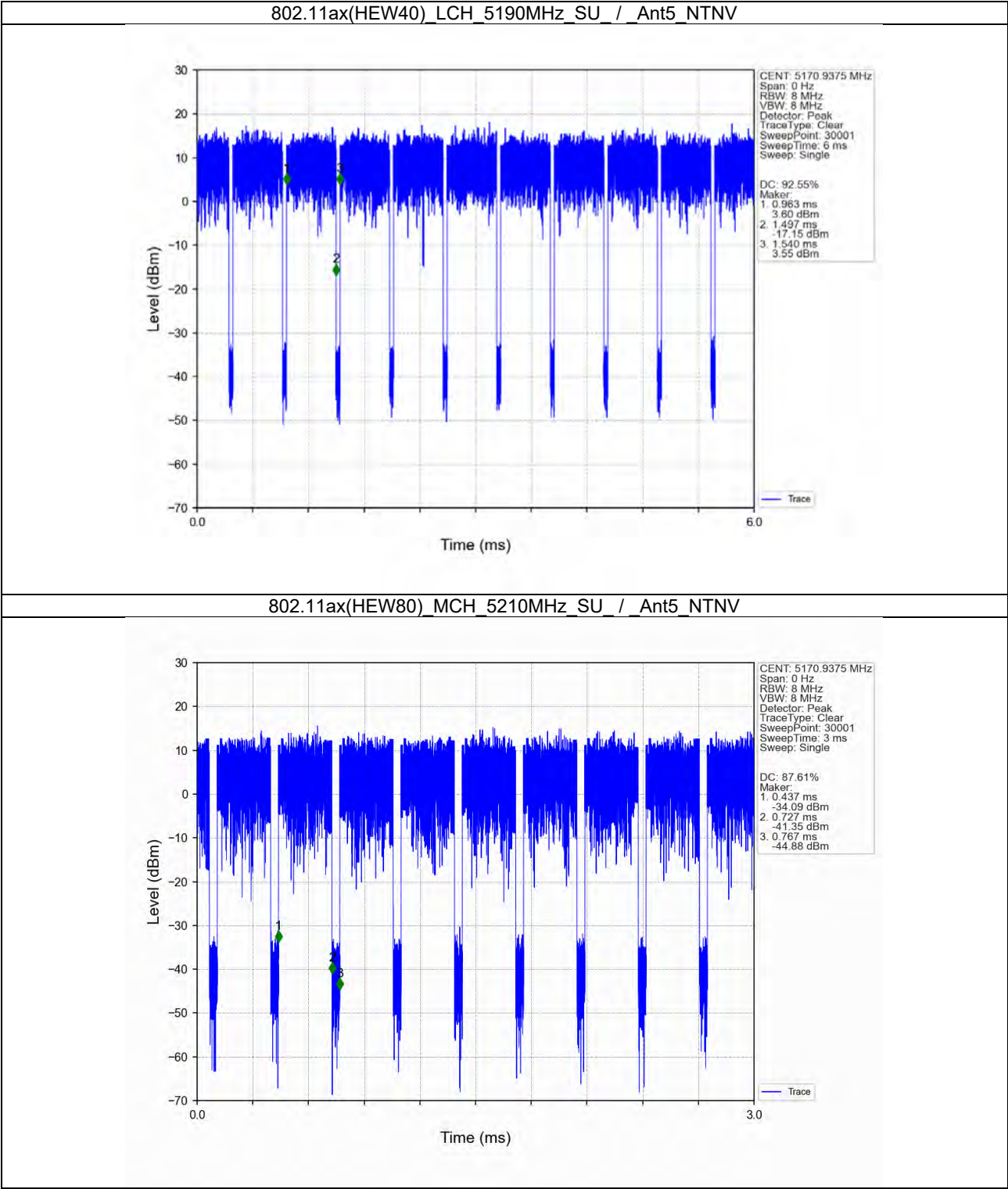
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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

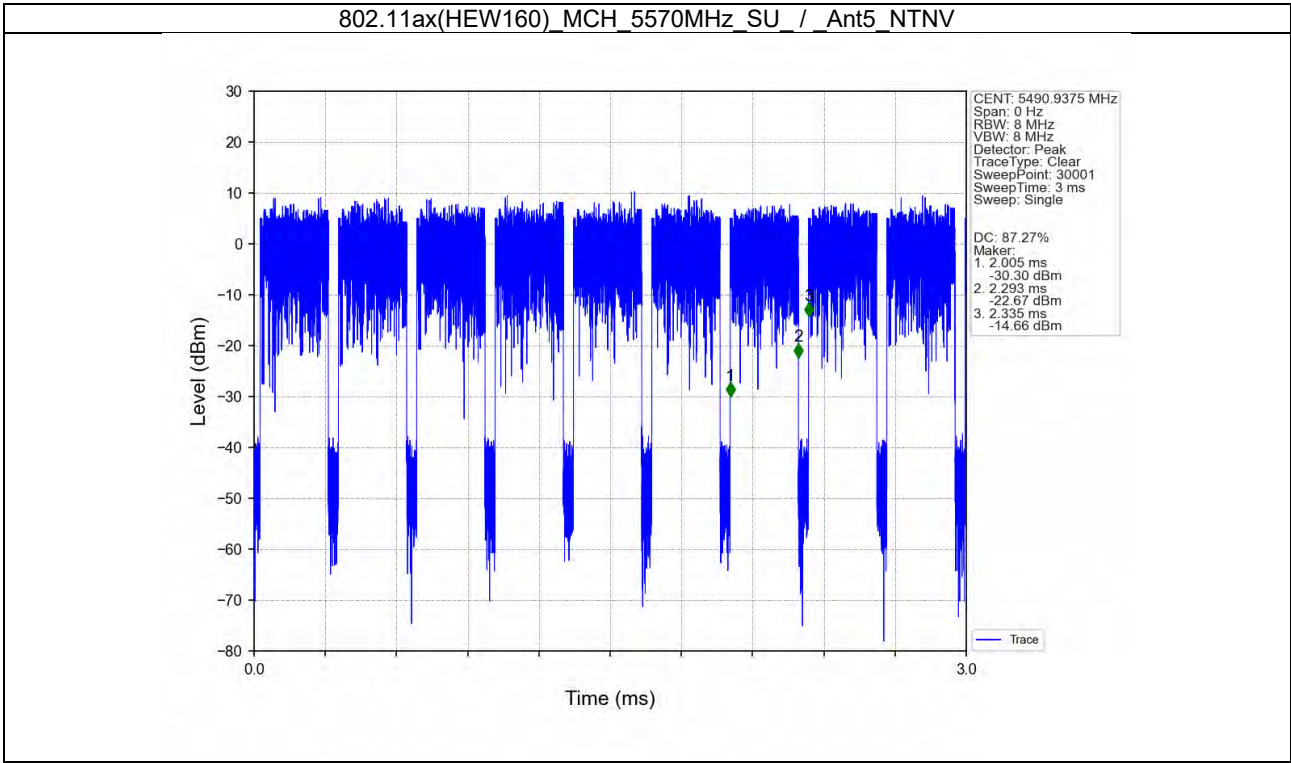
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### 2. Bandwidth

#### 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            | /  | /      | 4   | 19.797                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 19.078                       | /     | Pass    |
|                  |         | 5200            | /  | /      | 4   | 19.170                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 19.180                       | /     | Pass    |
|                  |         | 5240            | /  | /      | 4   | 17.465                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 17.075                       | /     | Pass    |
|                  |         | 5260            | /  | /      | 4   | 17.405                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 17.018                       | /     | Pass    |
|                  |         | 5300            | /  | /      | 4   | 18.047                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 17.744                       | /     | Pass    |
|                  |         | 5320            | /  | /      | 4   | 18.064                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 17.503                       | /     | Pass    |
|                  |         | 5500            | /  | /      | 4   | 17.761                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 17.504                       | /     | Pass    |
|                  |         | 5580            | /  | /      | 4   | 17.385                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 17.087                       | /     | Pass    |
|                  |         | 5700            | /  | /      | 4   | 17.867                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 17.594                       | /     | Pass    |
|                  |         | 5745            | /  | /      | 4   | 17.794                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 17.806                       | /     | Pass    |
|                  |         | 5785            | /  | /      | 4   | 17.964                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 18.540                       | /     | Pass    |
|                  |         | 5825            | /  | /      | 4   | 20.300                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 19.121                       | /     | Pass    |
| 802.11ax (HEW20) | MIMO    | 5180            | SU | /      | 4   | 19.412                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 19.356                       | /     | Pass    |
|                  |         | 5200            | SU | /      | 4   | 19.390                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 19.370                       | /     | Pass    |
|                  |         | 5240            | SU | /      | 4   | 19.183                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 19.164                       | /     | Pass    |
|                  |         | 5260            | SU | /      | 4   | 19.167                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 19.140                       | /     | Pass    |
|                  |         | 5300            | SU | /      | 4   | 19.448                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 19.320                       | /     | Pass    |
|                  |         | 5320            | SU | /      | 4   | 19.354                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 19.338                       | /     | Pass    |
|                  |         | 5500            | SU | /      | 4   | 19.375                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 19.328                       | /     | Pass    |
|                  |         | 5580            | SU | /      | 4   | 19.156                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 19.110                       | /     | Pass    |
|                  |         | 5700            | SU | /      | 4   | 19.341                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 19.297                       | /     | Pass    |
|                  |         | 5745            | SU | /      | 4   | 19.295                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 19.416                       | /     | Pass    |
|                  |         | 5785            | SU | /      | 4   | 20.612                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 19.389                       | /     | Pass    |
|                  |         | 5825            | SU | /      | 4   | 20.723                       | /     | Pass    |
|                  |         |                 |    |        | 5   | 19.621                       | /     | Pass    |



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|                      |      |      |    |   |   |         |   |      |
|----------------------|------|------|----|---|---|---------|---|------|
|                      |      | 5720 | SU | / | 4 | 19.138  | / | Pass |
|                      |      |      |    |   | 5 | 19.077  | / | Pass |
| 802.11ax<br>(HEW40)  | MIMO | 5190 | SU | / | 4 | 38.201  | / | Pass |
|                      |      |      |    |   | 5 | 38.479  | / | Pass |
|                      |      | 5230 | SU | / | 4 | 38.297  | / | Pass |
|                      |      |      |    |   | 5 | 38.411  | / | Pass |
|                      |      | 5270 | SU | / | 4 | 38.686  | / | Pass |
|                      |      |      |    |   | 5 | 38.560  | / | Pass |
|                      |      | 5310 | SU | / | 4 | 38.441  | / | Pass |
|                      |      |      |    |   | 5 | 38.583  | / | Pass |
|                      |      | 5510 | SU | / | 4 | 38.366  | / | Pass |
|                      |      |      |    |   | 5 | 38.407  | / | Pass |
|                      |      | 5550 | SU | / | 4 | 38.696  | / | Pass |
|                      |      |      |    |   | 5 | 38.732  | / | Pass |
|                      |      | 5670 | SU | / | 4 | 38.564  | / | Pass |
|                      |      |      |    |   | 5 | 38.696  | / | Pass |
|                      |      | 5755 | SU | / | 4 | 38.117  | / | Pass |
|                      |      |      |    |   | 5 | 38.381  | / | Pass |
|                      |      | 5795 | SU | / | 4 | 38.203  | / | Pass |
|                      |      |      |    |   | 5 | 38.817  | / | Pass |
|                      |      | 5710 | SU | / | 4 | 38.347  | / | Pass |
|                      |      |      |    |   | 5 | 38.476  | / | Pass |
| 802.11ax<br>(HEW80)  | MIMO | 5210 | SU | / | 4 | 78.904  | / | Pass |
|                      |      |      |    |   | 5 | 79.082  | / | Pass |
|                      |      | 5290 | SU | / | 4 | 78.875  | / | Pass |
|                      |      |      |    |   | 5 | 79.142  | / | Pass |
|                      |      | 5530 | SU | / | 4 | 79.328  | / | Pass |
|                      |      |      |    |   | 5 | 78.832  | / | Pass |
|                      |      | 5610 | SU | / | 4 | 79.356  | / | Pass |
|                      |      |      |    |   | 5 | 79.419  | / | Pass |
|                      |      | 5775 | SU | / | 4 | 78.836  | / | Pass |
|                      |      |      |    |   | 5 | 79.238  | / | Pass |
|                      |      | 5690 | SU | / | 4 | 78.958  | / | Pass |
|                      |      |      |    |   | 5 | 79.643  | / | Pass |
| 802.11ax<br>(HEW160) | MIMO | 5570 | SU | / | 4 | 158.213 | / | Pass |
|                      |      |      |    |   | 5 | 157.916 | / | Pass |
|                      |      | 5250 | SU | / | 4 | 157.763 | / | Pass |
|                      |      |      |    |   | 5 | 158.354 | / | 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            | /  | /      | 4   | 29.073               | /     | Pass    |
|         |         |                 |    |        | 5   | 29.111               | /     | Pass    |
|         |         | 5200            | /  | /      | 4   | 31.525               | /     | Pass    |
|         |         |                 |    |        | 5   | 28.942               | /     | Pass    |
|         |         | 5240            | /  | /      | 4   | 20.419               | /     | Pass    |
|         |         |                 |    |        | 5   | 21.128               | /     | Pass    |
|         |         | 5260            | /  | /      | 4   | 20.882               | /     | Pass    |
|         |         |                 |    |        | 5   | 20.103               | /     | Pass    |
|         |         | 5300            | /  | /      | 4   | 25.865               | /     | Pass    |
|         |         |                 |    |        | 5   | 27.080               | /     | Pass    |
|         |         | 5320            | /  | /      | 4   | 25.118               | /     | Pass    |
|         |         |                 |    |        | 5   | 24.710               | /     | Pass    |
|         |         | 5500            | /  | /      | 4   | 25.034               | /     | Pass    |
|         |         |                 |    |        | 5   | 25.107               | /     | Pass    |
|         |         | 5580            | /  | /      | 4   | 20.307               | /     | Pass    |



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|                      |      |      |    |   |   |         |   |      |
|----------------------|------|------|----|---|---|---------|---|------|
|                      |      |      |    |   | 5 | 22.518  | / | Pass |
|                      |      | 5700 | /  | / | 4 | 24.180  | / | Pass |
|                      |      |      |    |   | 5 | 24.102  | / | Pass |
|                      |      | 5720 | /  | / | 4 | 20.385  | / | Pass |
|                      |      |      |    |   | 5 | 20.197  | / | Pass |
| 802.11ax<br>(HEW20)  | MIMO | 5180 | SU | / | 4 | 30.033  | / | Pass |
|                      |      |      |    |   | 5 | 29.603  | / | Pass |
|                      |      | 5200 | SU | / | 4 | 27.682  | / | Pass |
|                      |      |      |    |   | 5 | 26.985  | / | Pass |
|                      |      | 5240 | SU | / | 4 | 21.861  | / | Pass |
|                      |      |      |    |   | 5 | 22.066  | / | Pass |
|                      |      | 5260 | SU | / | 4 | 21.188  | / | Pass |
|                      |      |      |    |   | 5 | 21.535  | / | Pass |
|                      |      | 5300 | SU | / | 4 | 33.198  | / | Pass |
|                      |      |      |    |   | 5 | 28.515  | / | Pass |
|                      |      | 5320 | SU | / | 4 | 21.926  | / | Pass |
|                      |      |      |    |   | 5 | 26.897  | / | Pass |
|                      |      | 5500 | SU | / | 4 | 25.741  | / | Pass |
|                      |      |      |    |   | 5 | 26.265  | / | Pass |
|                      |      | 5580 | SU | / | 4 | 21.256  | / | Pass |
| 802.11ax<br>(HEW40)  | MIMO |      |    |   | 5 | 21.637  | / | Pass |
|                      |      | 5700 | SU | / | 4 | 25.264  | / | Pass |
|                      |      |      |    |   | 5 | 26.979  | / | Pass |
|                      |      | 5720 | SU | / | 4 | 21.301  | / | Pass |
|                      |      |      |    |   | 5 | 21.233  | / | Pass |
|                      |      | 5190 | SU | / | 4 | 47.090  | / | Pass |
|                      |      |      |    |   | 5 | 56.725  | / | Pass |
|                      |      | 5230 | SU | / | 4 | 48.815  | / | Pass |
|                      |      |      |    |   | 5 | 50.164  | / | Pass |
|                      |      | 5270 | SU | / | 4 | 57.797  | / | Pass |
|                      |      |      |    |   | 5 | 62.811  | / | Pass |
|                      |      | 5310 | SU | / | 4 | 56.970  | / | Pass |
|                      |      |      |    |   | 5 | 64.633  | / | Pass |
|                      |      | 5510 | SU | / | 4 | 59.105  | / | Pass |
|                      |      |      |    |   | 5 | 57.049  | / | Pass |
| 802.11ax<br>(HEW80)  | MIMO | 5550 | SU | / | 4 | 40.769  | / | Pass |
|                      |      |      |    |   | 5 | 62.454  | / | Pass |
|                      |      | 5670 | SU | / | 4 | 63.285  | / | Pass |
|                      |      |      |    |   | 5 | 60.544  | / | Pass |
|                      |      | 5710 | SU | / | 4 | 39.357  | / | Pass |
|                      |      |      |    |   | 5 | 60.474  | / | Pass |
|                      |      | 5210 | SU | / | 4 | 124.622 | / | Pass |
|                      |      |      |    |   | 5 | 116.210 | / | Pass |
|                      |      | 5290 | SU | / | 4 | 111.248 | / | Pass |
|                      |      |      |    |   | 5 | 118.898 | / | Pass |
|                      |      | 5530 | SU | / | 4 | 125.909 | / | Pass |
|                      |      |      |    |   | 5 | 120.319 | / | Pass |
|                      |      | 5610 | SU | / | 4 | 138.352 | / | Pass |
|                      |      |      |    |   | 5 | 137.630 | / | Pass |
|                      |      | 5690 | SU | / | 4 | 112.823 | / | Pass |
| 802.11ax<br>(HEW160) | MIMO |      |    |   | 5 | 133.277 | / | Pass |
|                      |      | 5570 | SU | / | 4 | 165.821 | / | Pass |
|                      |      |      |    |   | 5 | 170.255 | / | Pass |
|                      |      | 5250 | SU | / | 4 | 174.248 | / | Pass |
|                      |      |      |    |   | 5 | 178.209 | / | Pass |

### 2.1.3 6dB BW



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| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------------------|---------|-----------------|----|--------|-----|---------------------|------------|---------|
|                  |         |                 |    |        |     | Result              | Limit      |         |
| 802.11a          | MIMO    | 5745            | /  | /      | 4   | 15.141              | $\geq 0.5$ | Pass    |
|                  |         |                 |    |        | 5   | 15.153              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | /  | /      | 4   | 15.124              | $\geq 0.5$ | Pass    |
|                  |         |                 |    |        | 5   | 15.148              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | /  | /      | 4   | 15.350              | $\geq 0.5$ | Pass    |
|                  |         |                 |    |        | 5   | 15.105              | $\geq 0.5$ | Pass    |
| 802.11ax (HEW20) | MIMO    | 5745            | SU | /      | 4   | 18.328              | $\geq 0.5$ | Pass    |
|                  |         |                 |    |        | 5   | 15.146              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | SU | /      | 4   | 16.151              | $\geq 0.5$ | Pass    |
|                  |         |                 |    |        | 5   | 15.733              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | SU | /      | 4   | 15.265              | $\geq 0.5$ | Pass    |
|                  |         |                 |    |        | 5   | 16.173              | $\geq 0.5$ | Pass    |
| 802.11ax (HEW40) | MIMO    | 5755            | SU | /      | 4   | 36.805              | $\geq 0.5$ | Pass    |
|                  |         |                 |    |        | 5   | 35.245              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | SU | /      | 4   | 36.123              | $\geq 0.5$ | Pass    |
|                  |         |                 |    |        | 5   | 35.176              | $\geq 0.5$ | Pass    |
| 802.11ax (HEW80) | MIMO    | 5775            | SU | /      | 4   | 77.978              | $\geq 0.5$ | Pass    |
|                  |         |                 |    |        | 5   | 78.069              | $\geq 0.5$ | Pass    |

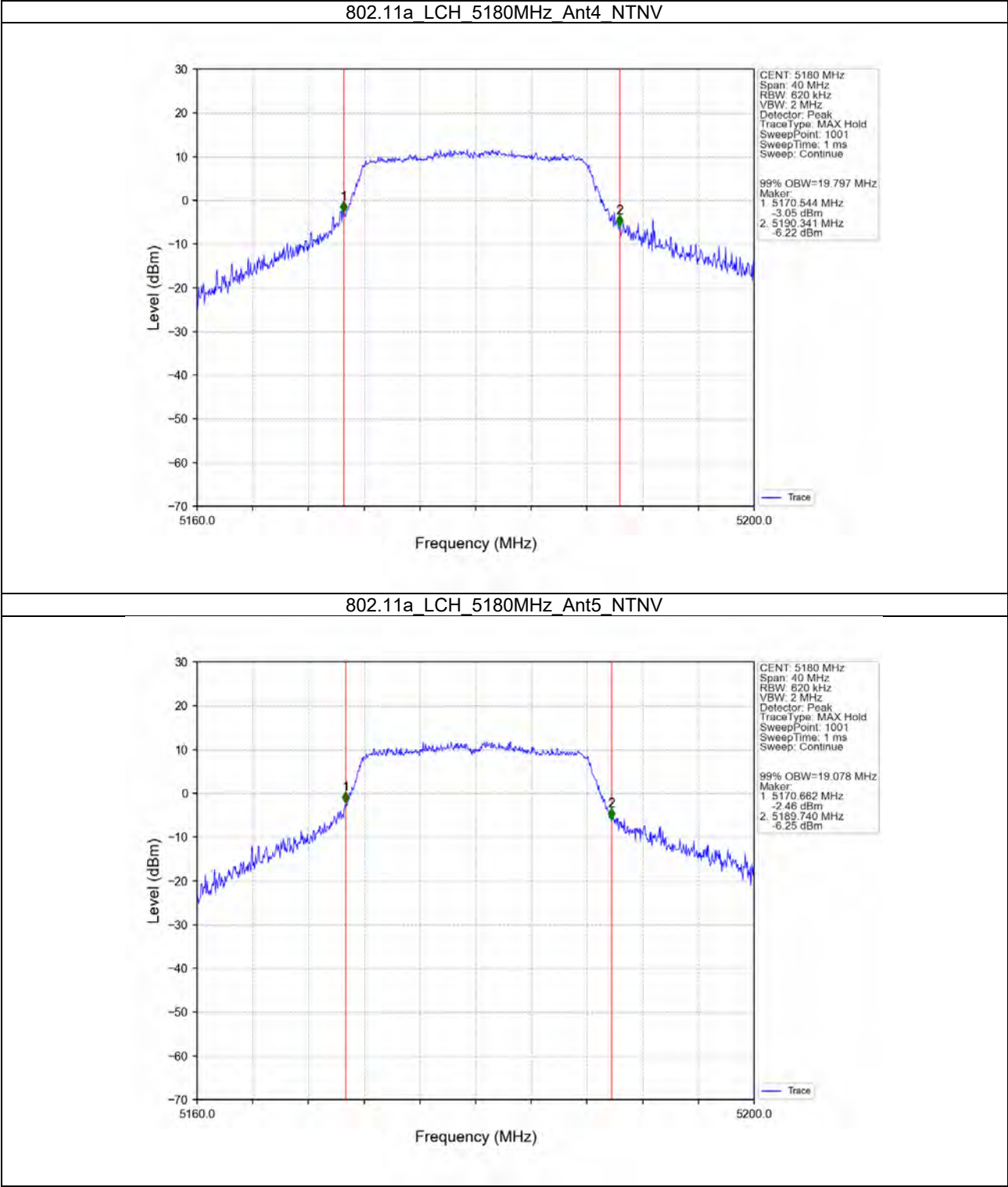


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2.2 Test Graph

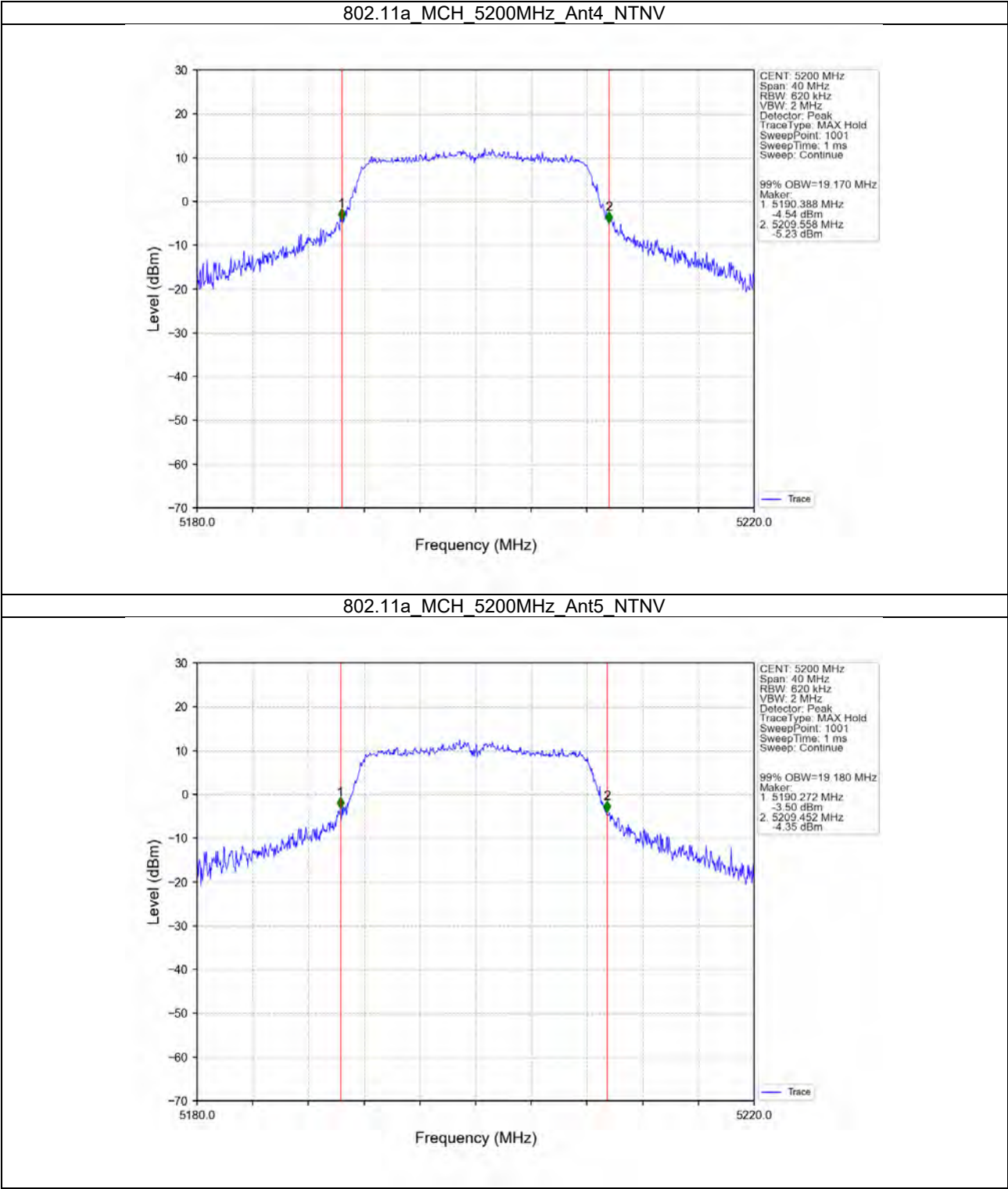
2.2.1 OBW





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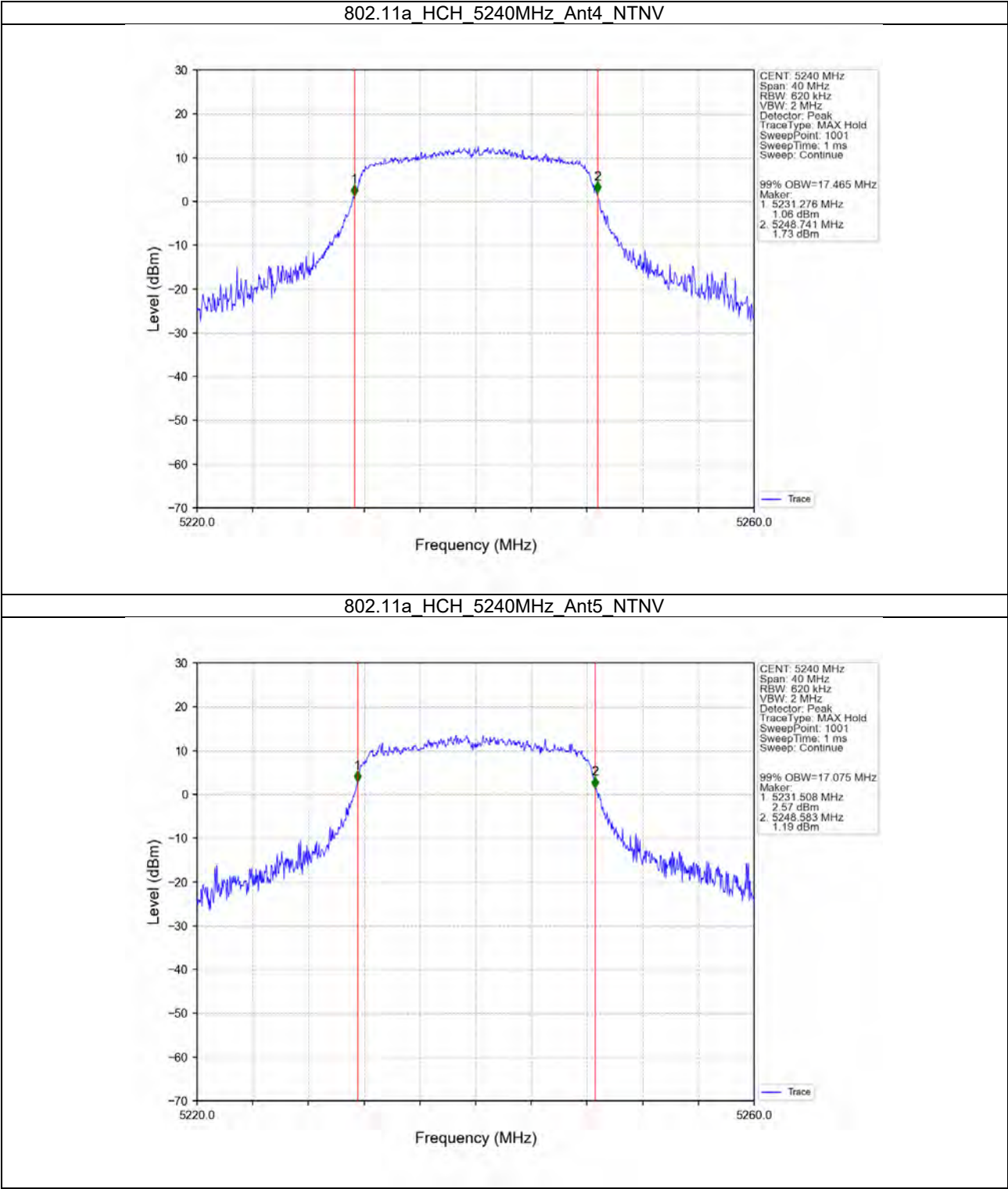
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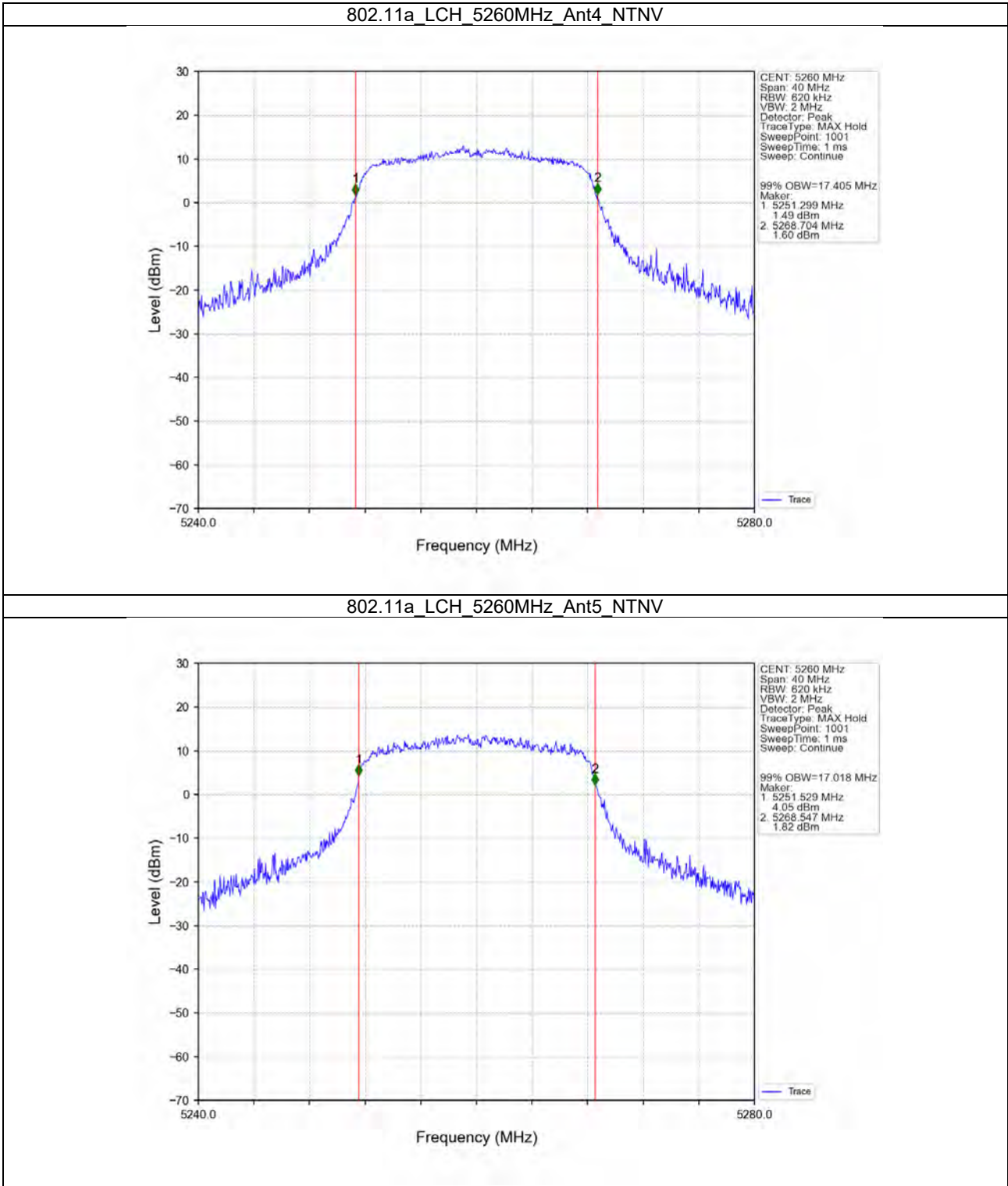
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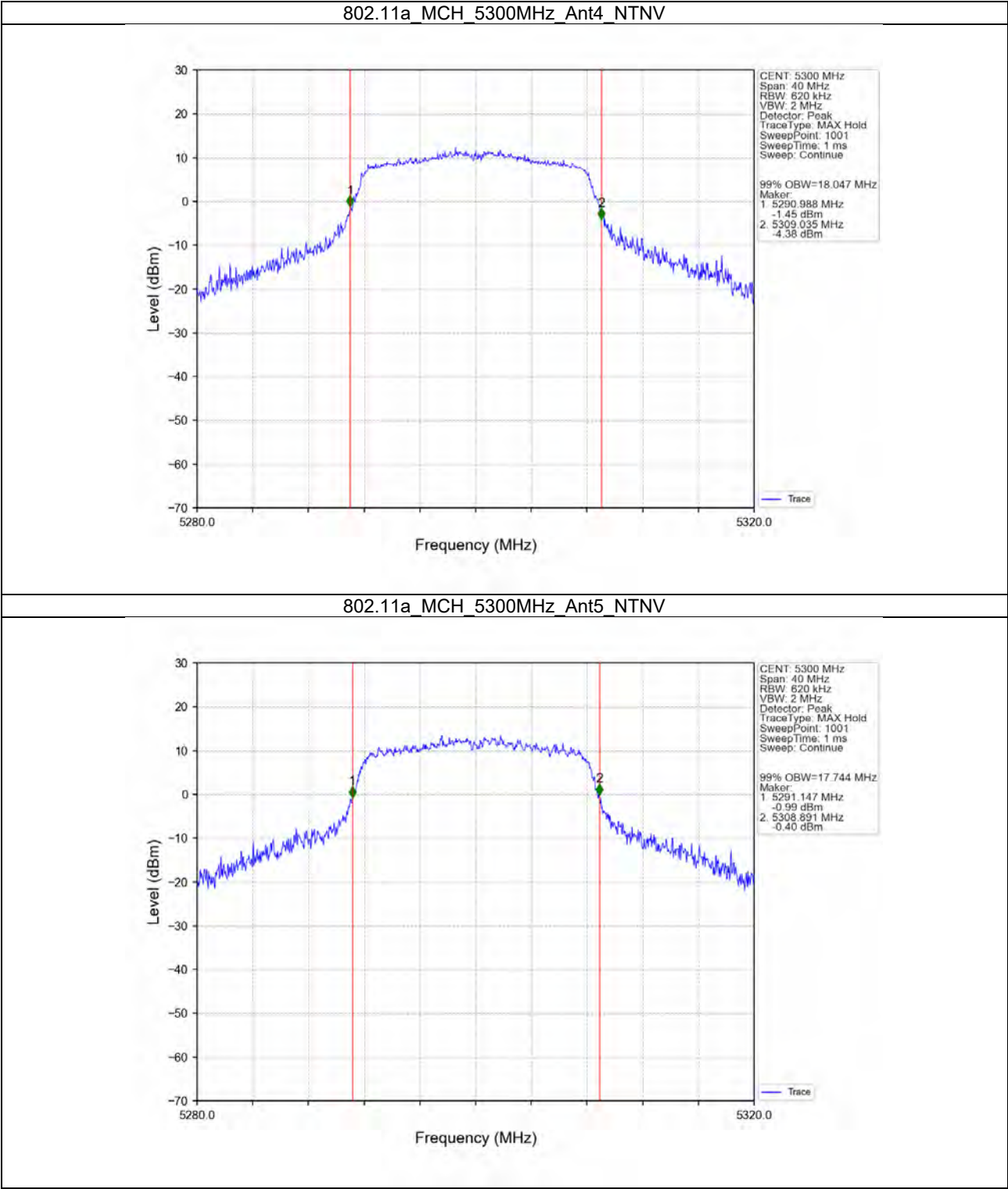
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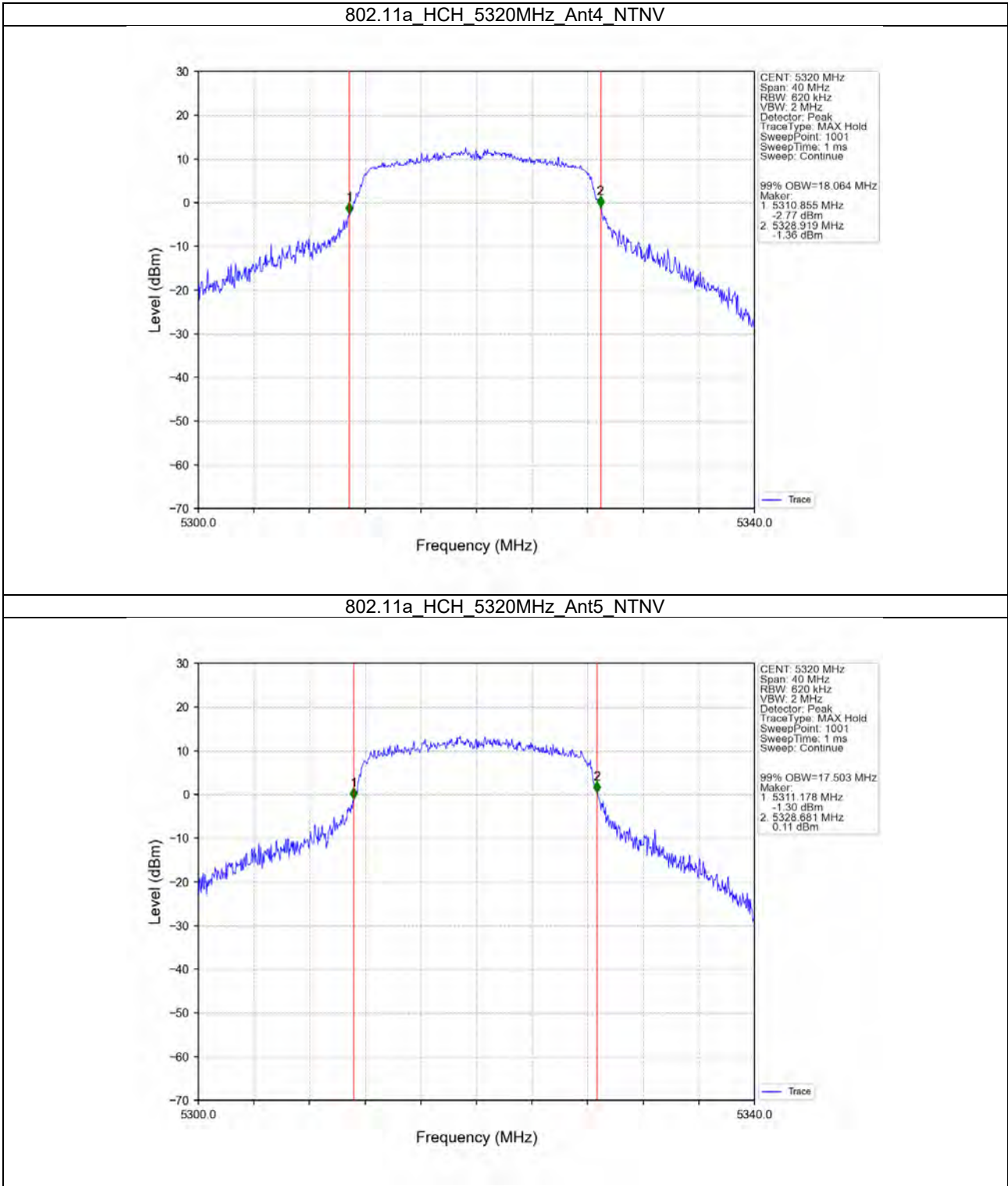
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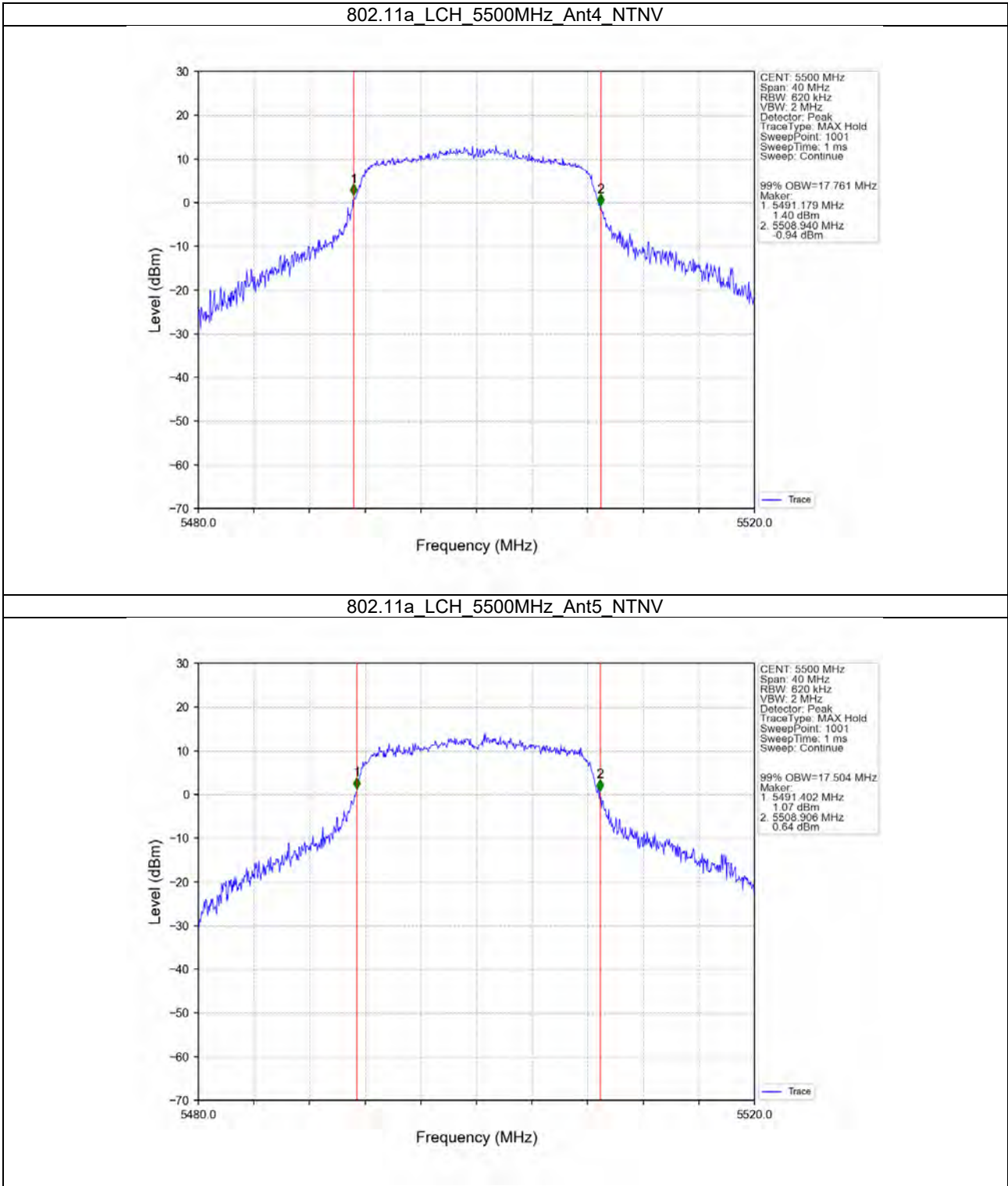
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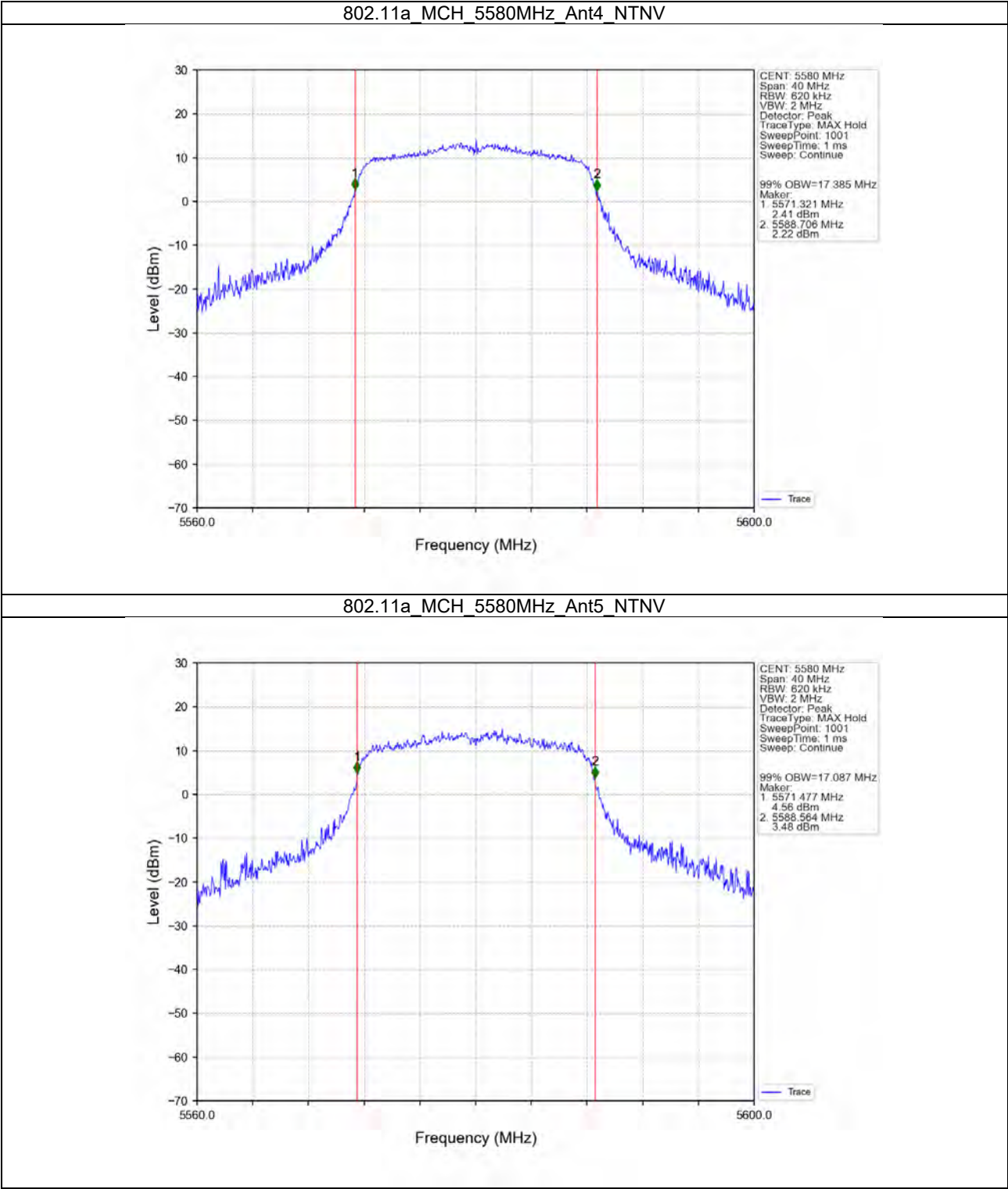
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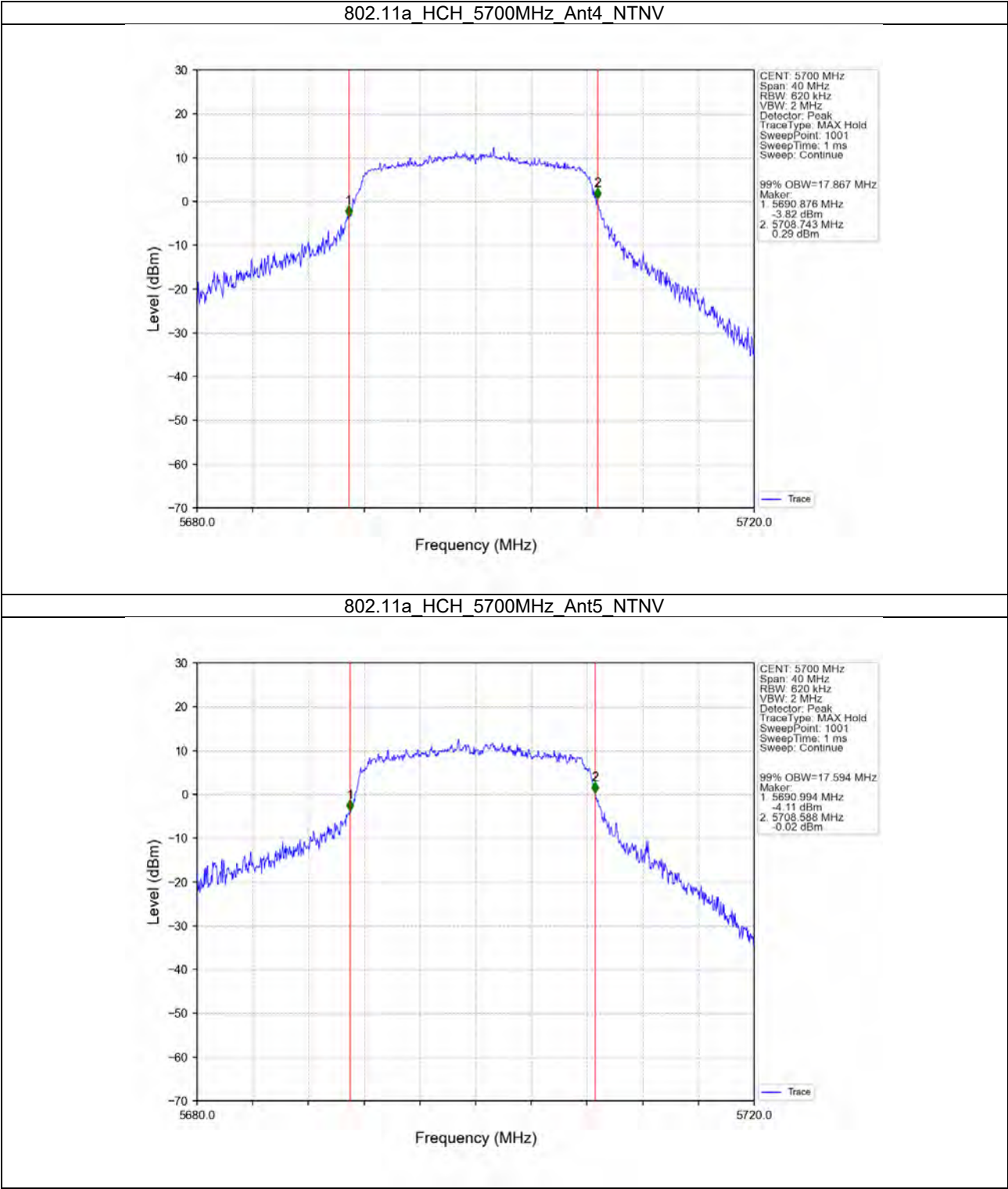
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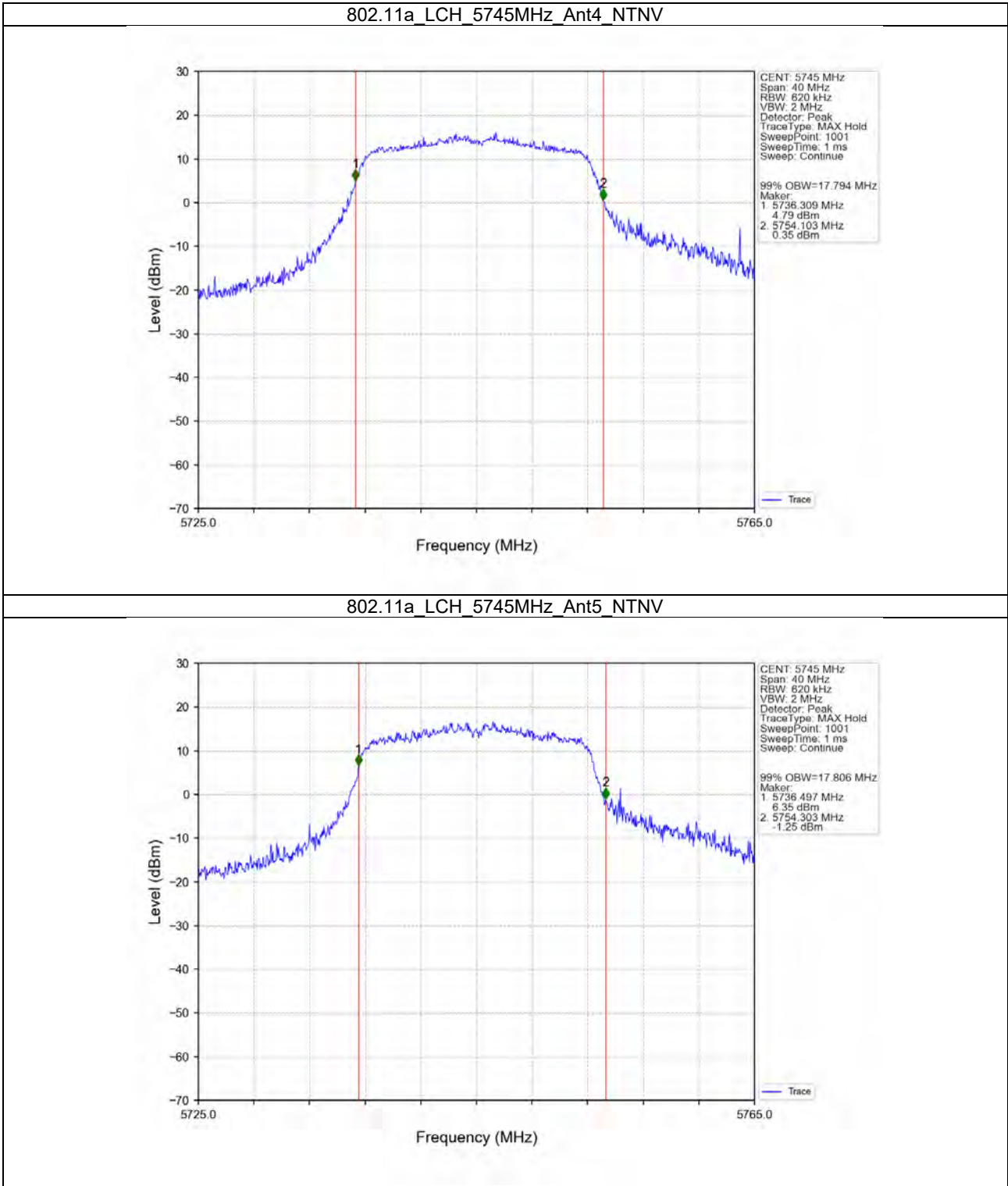
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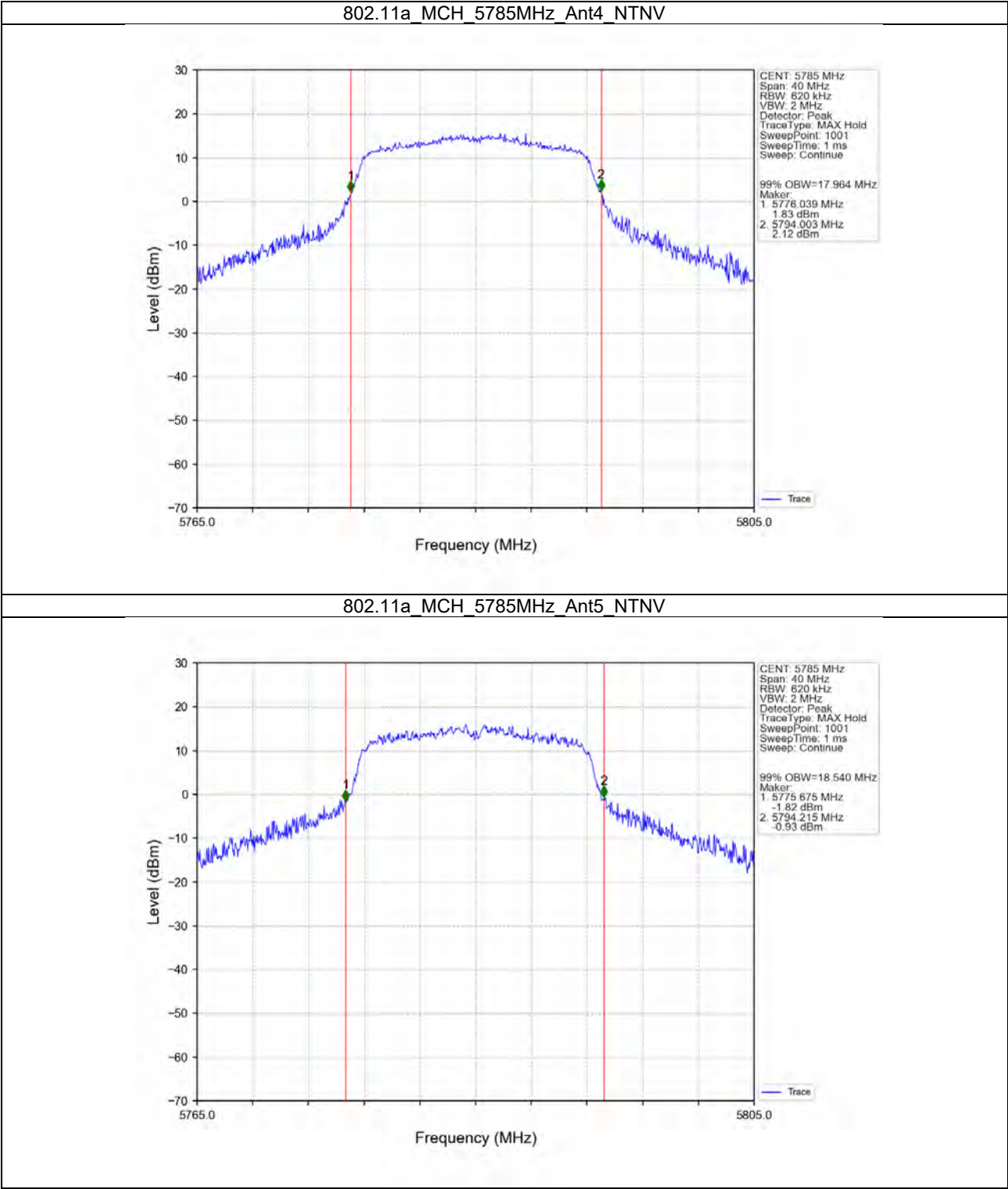
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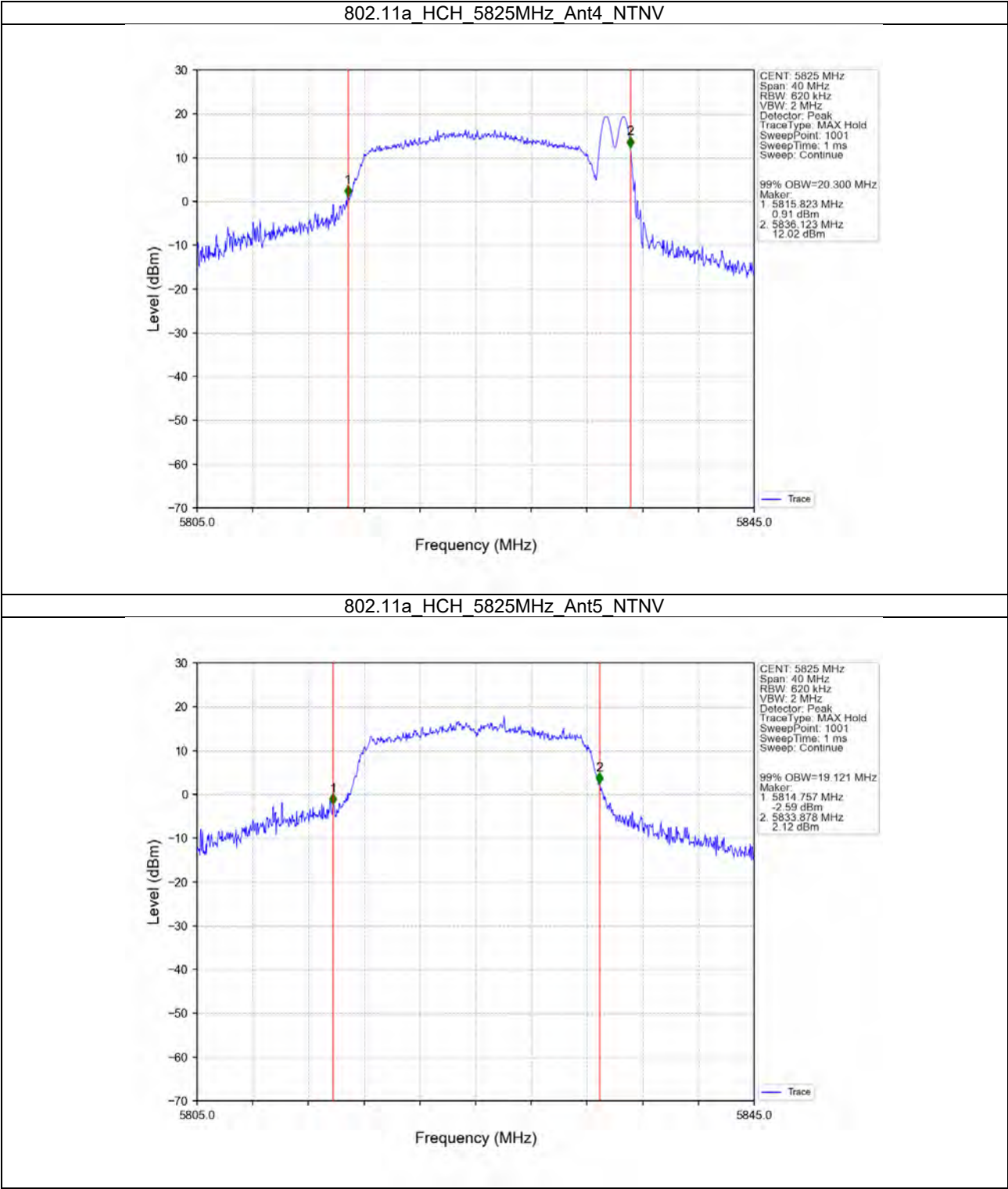
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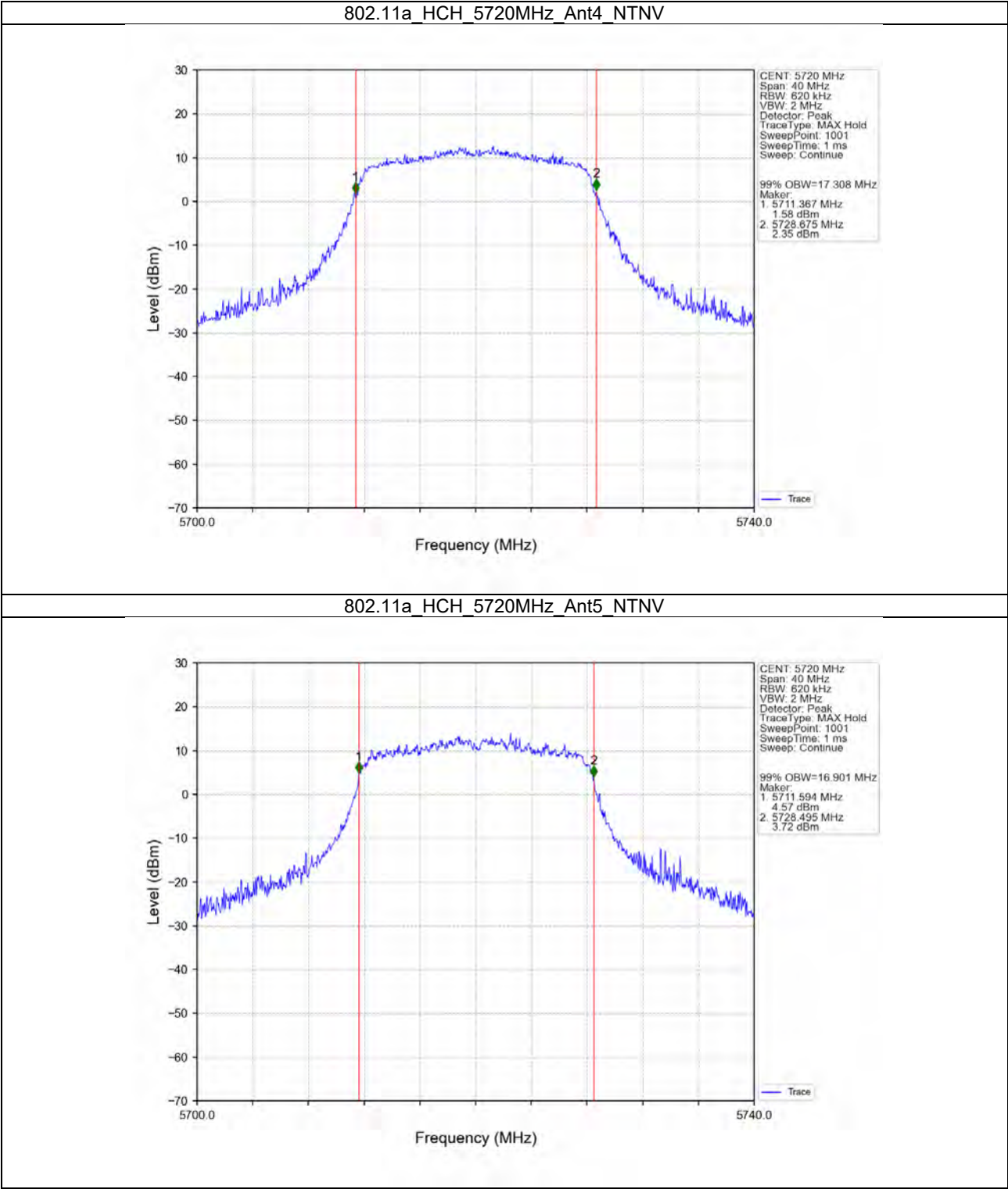
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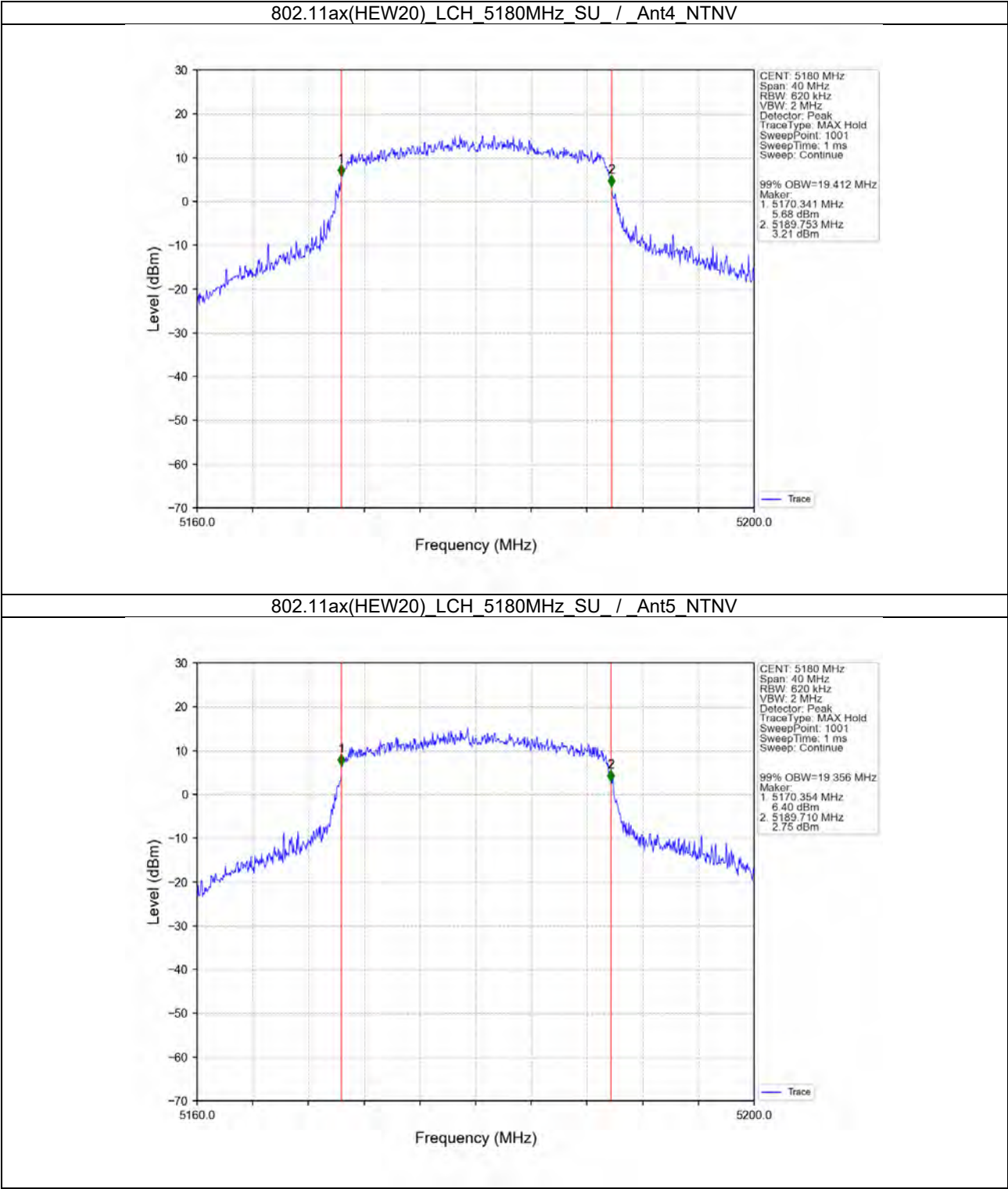
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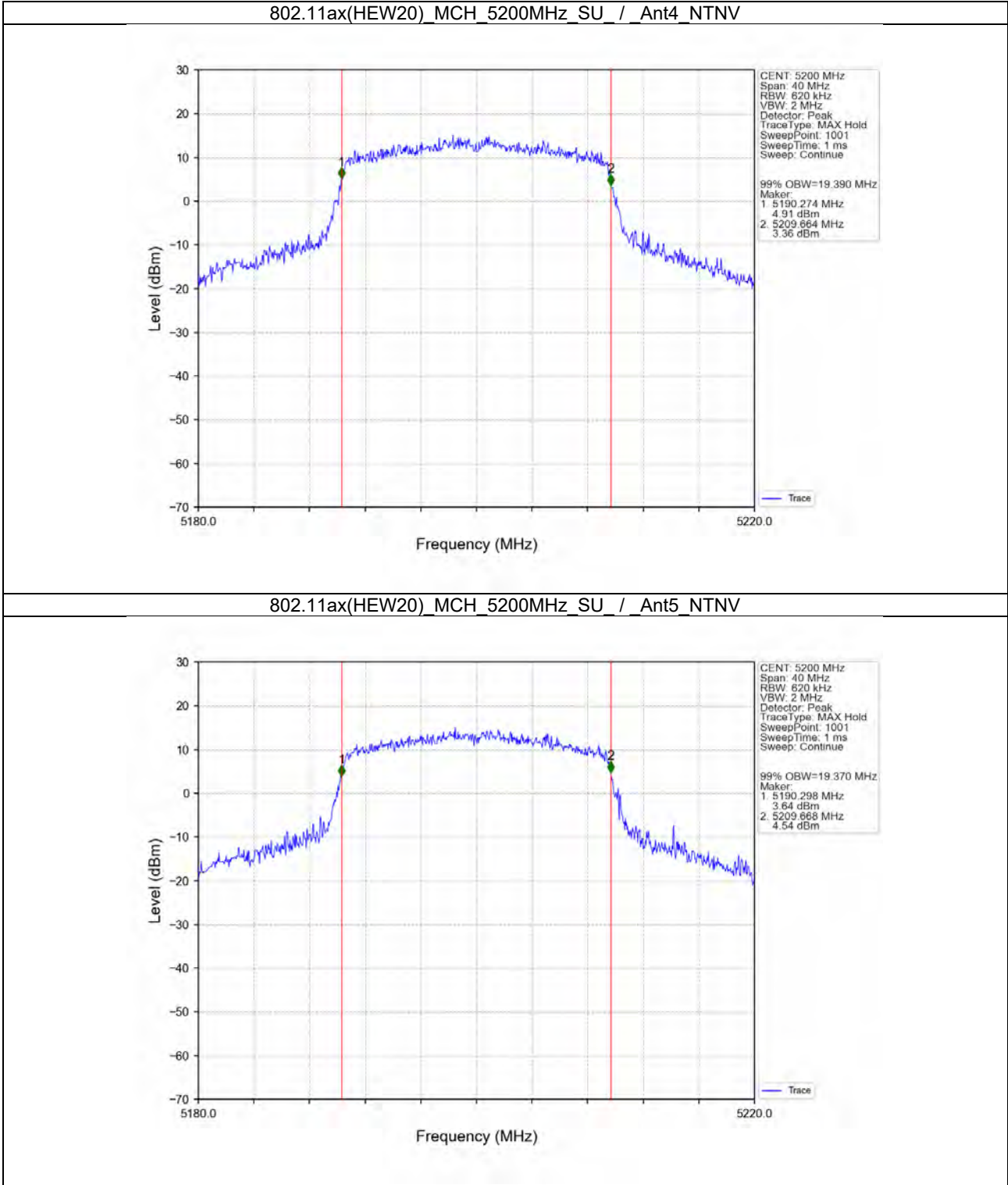
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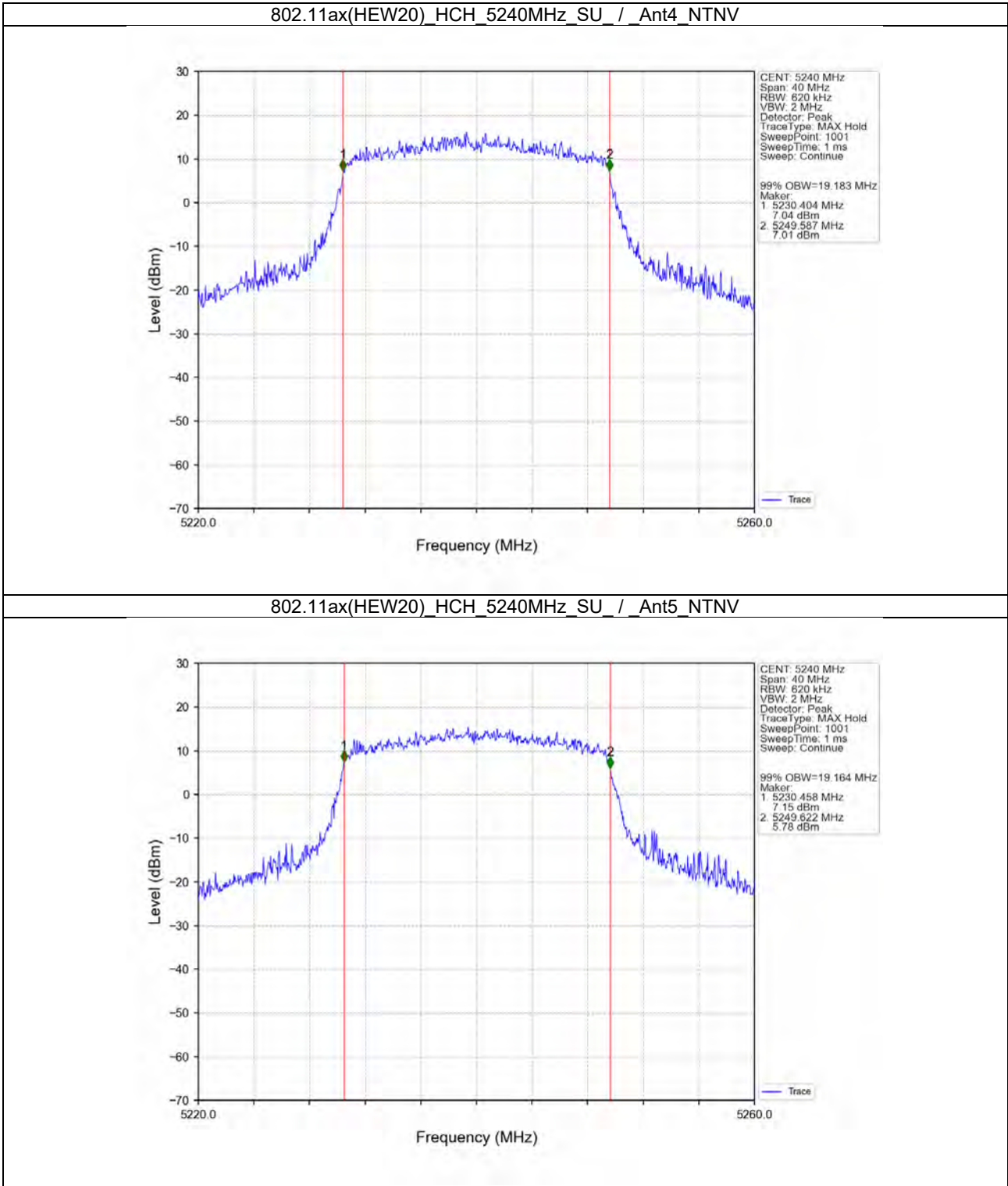
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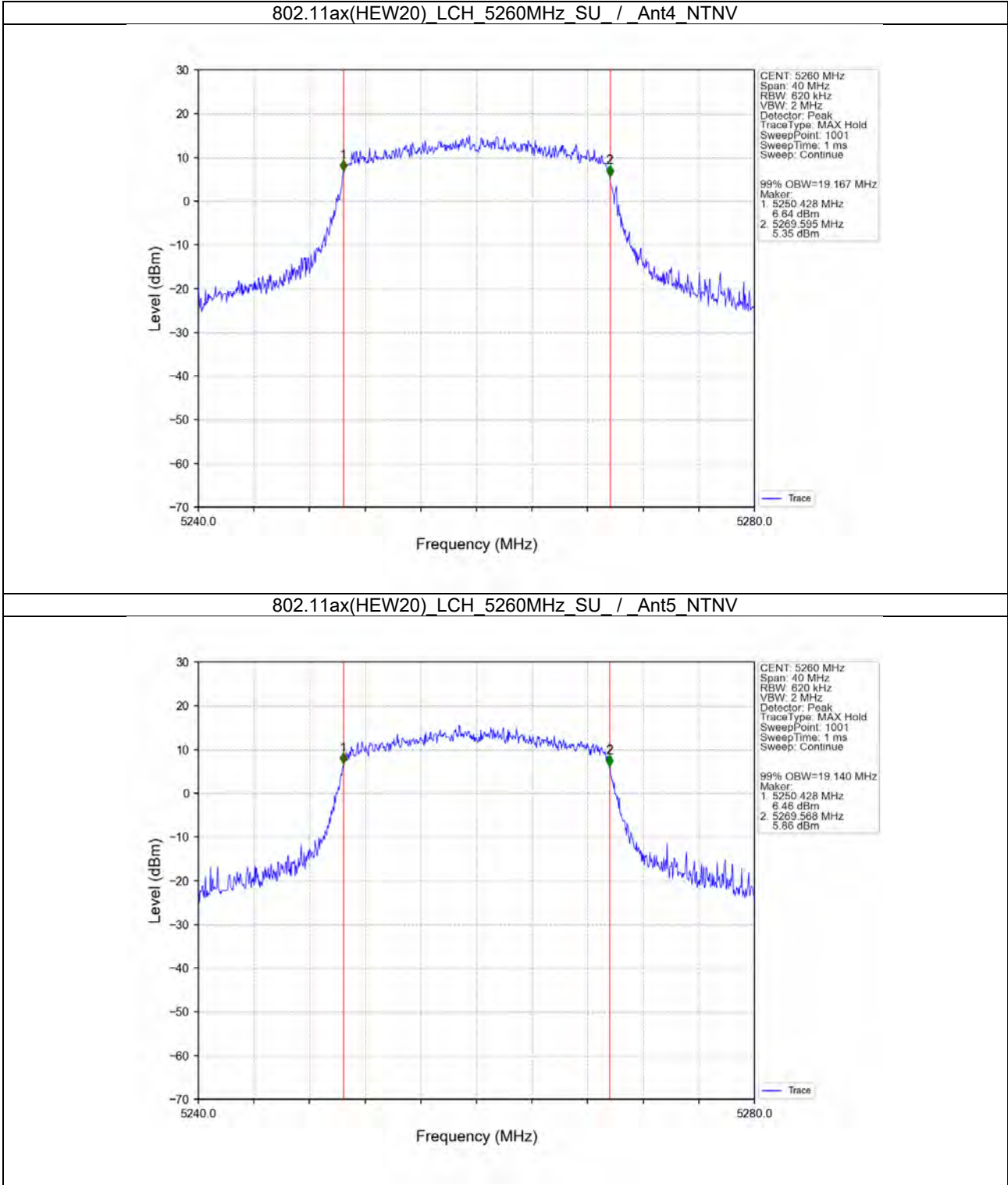
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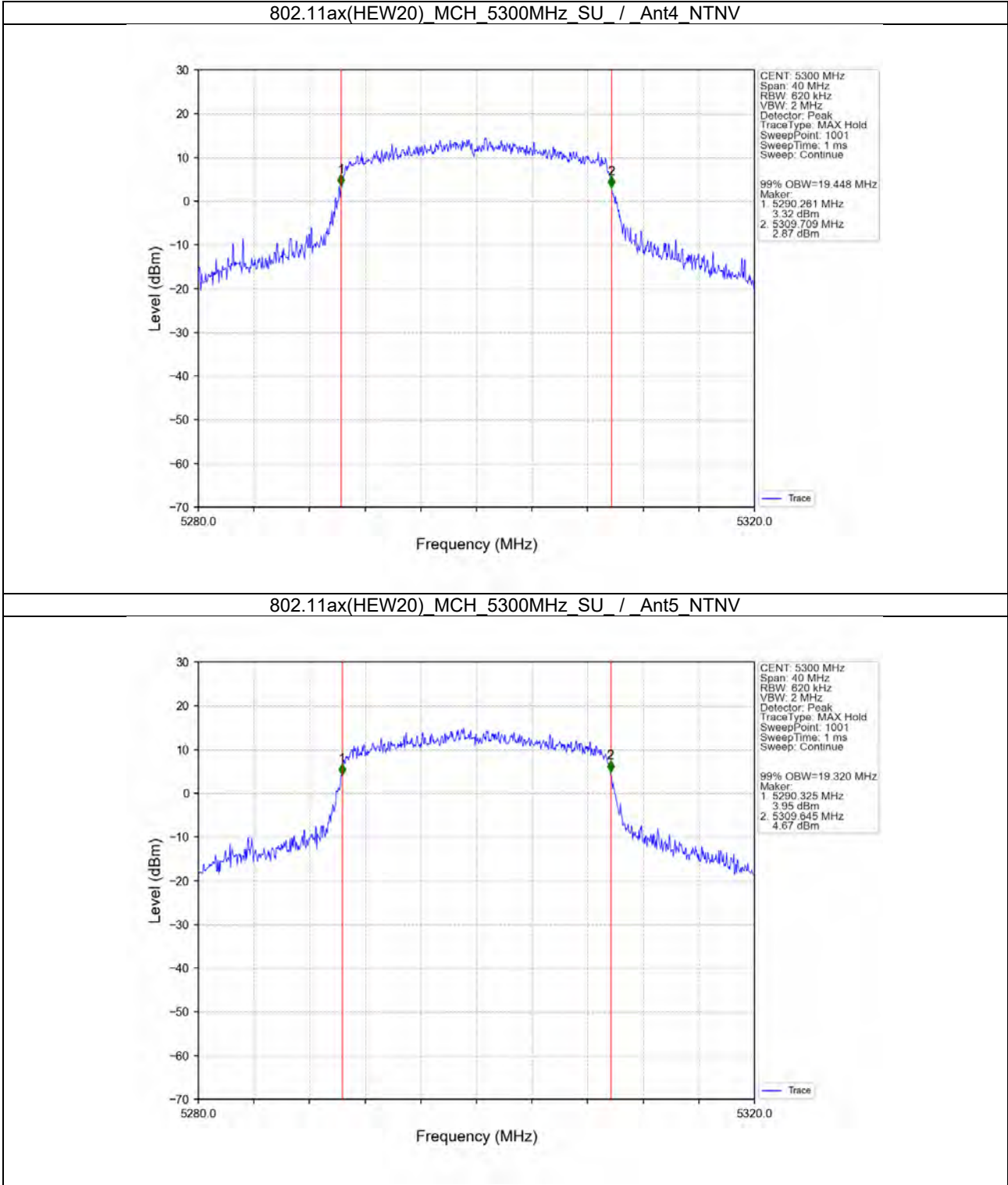
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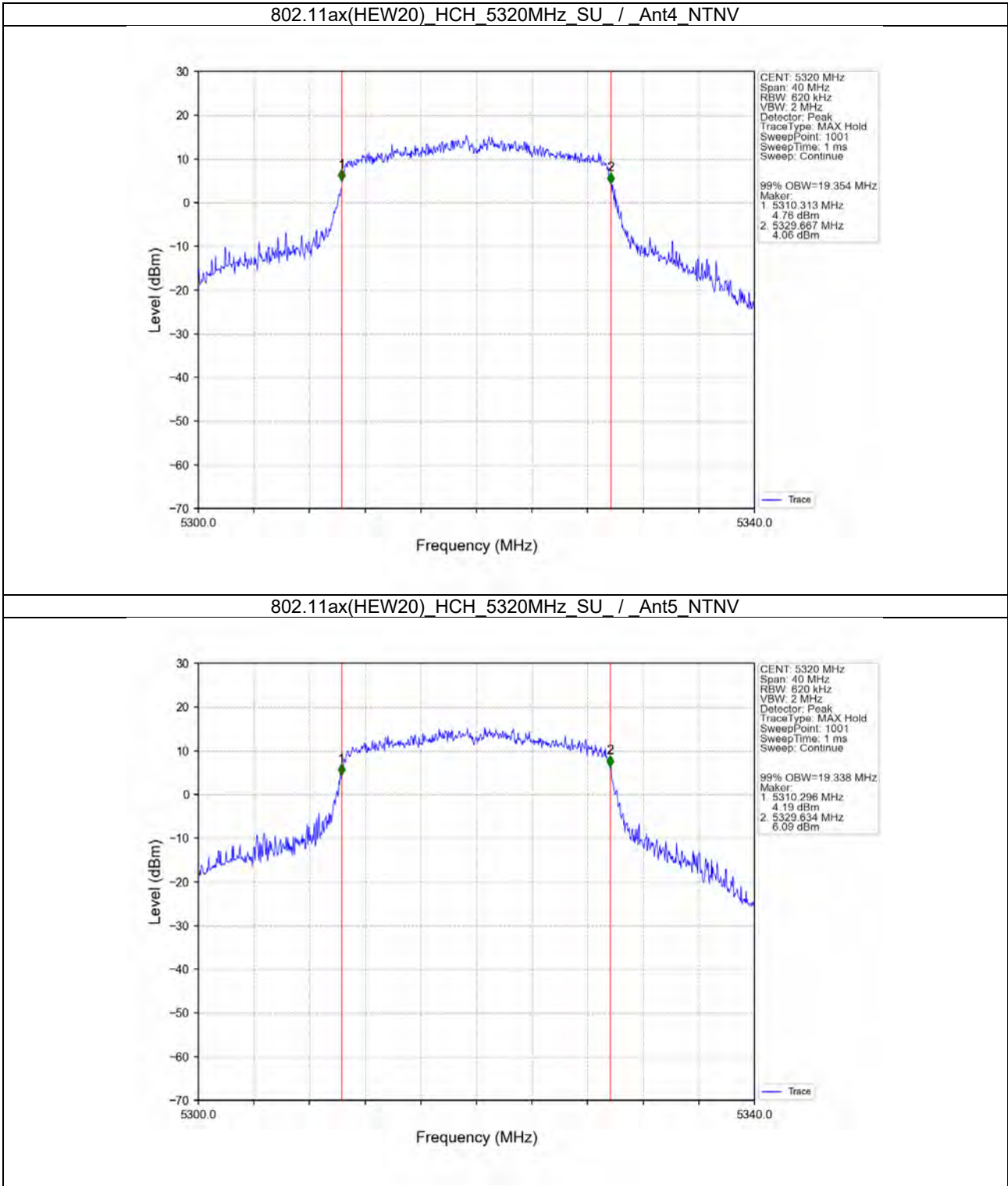
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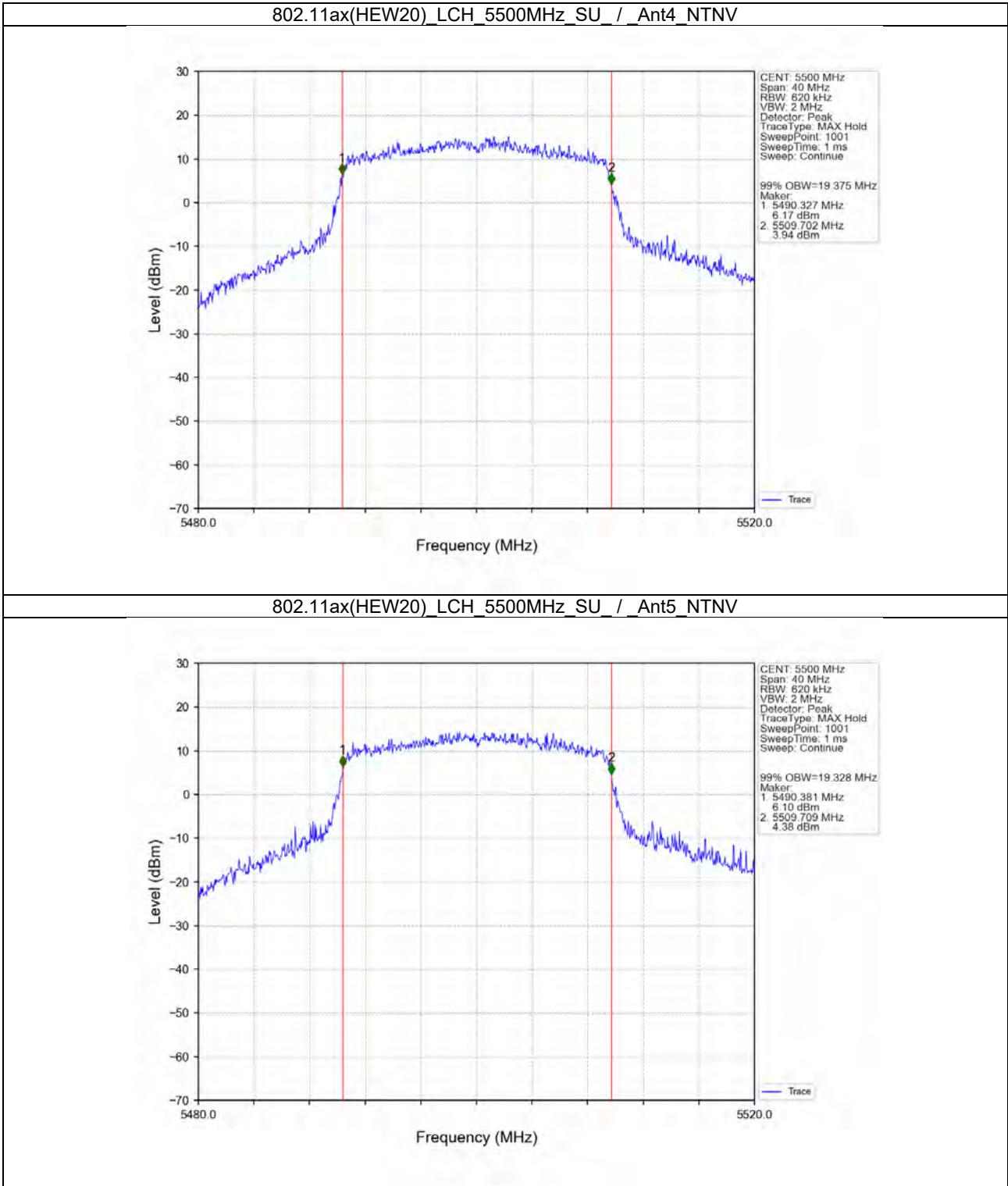
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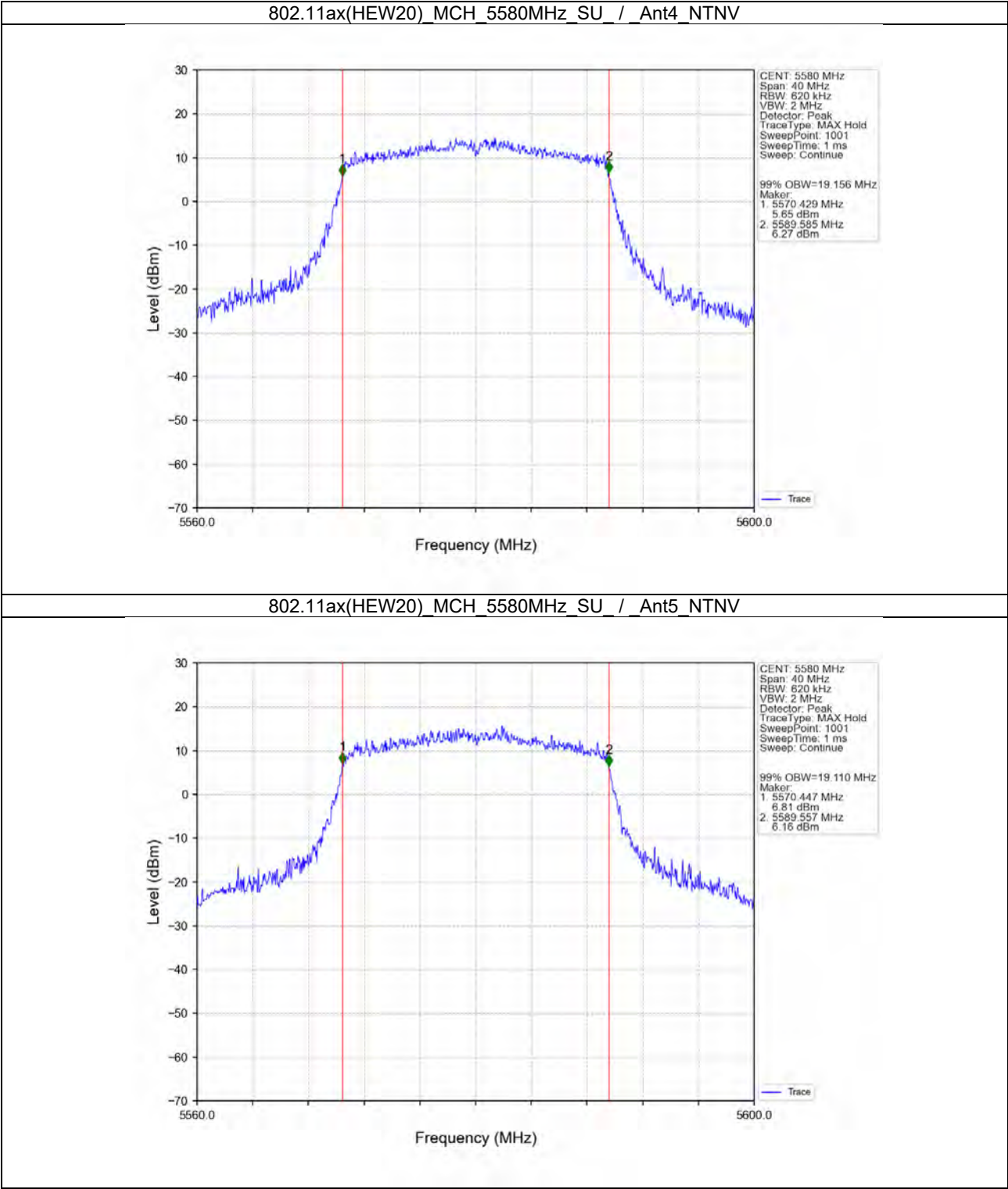
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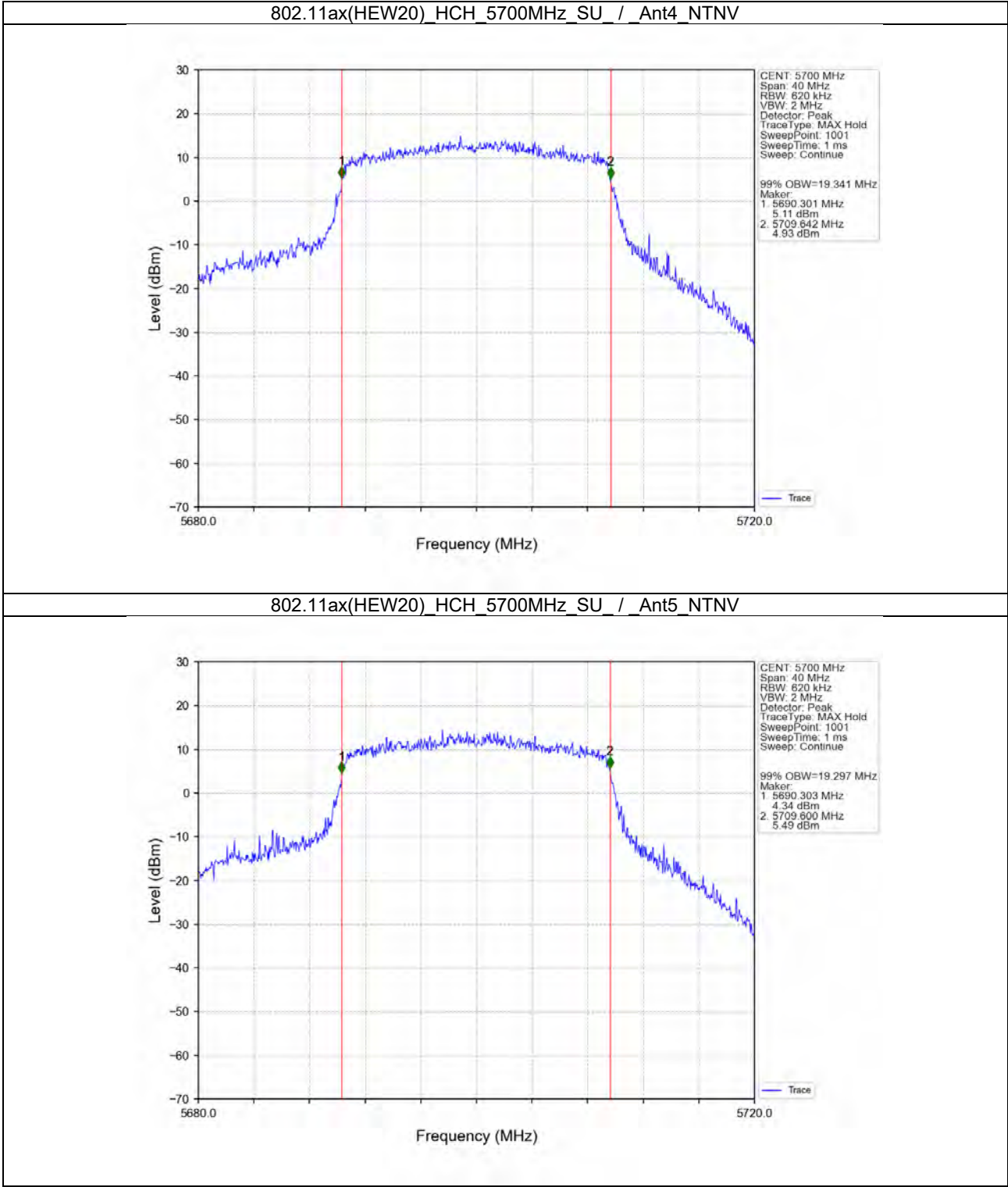
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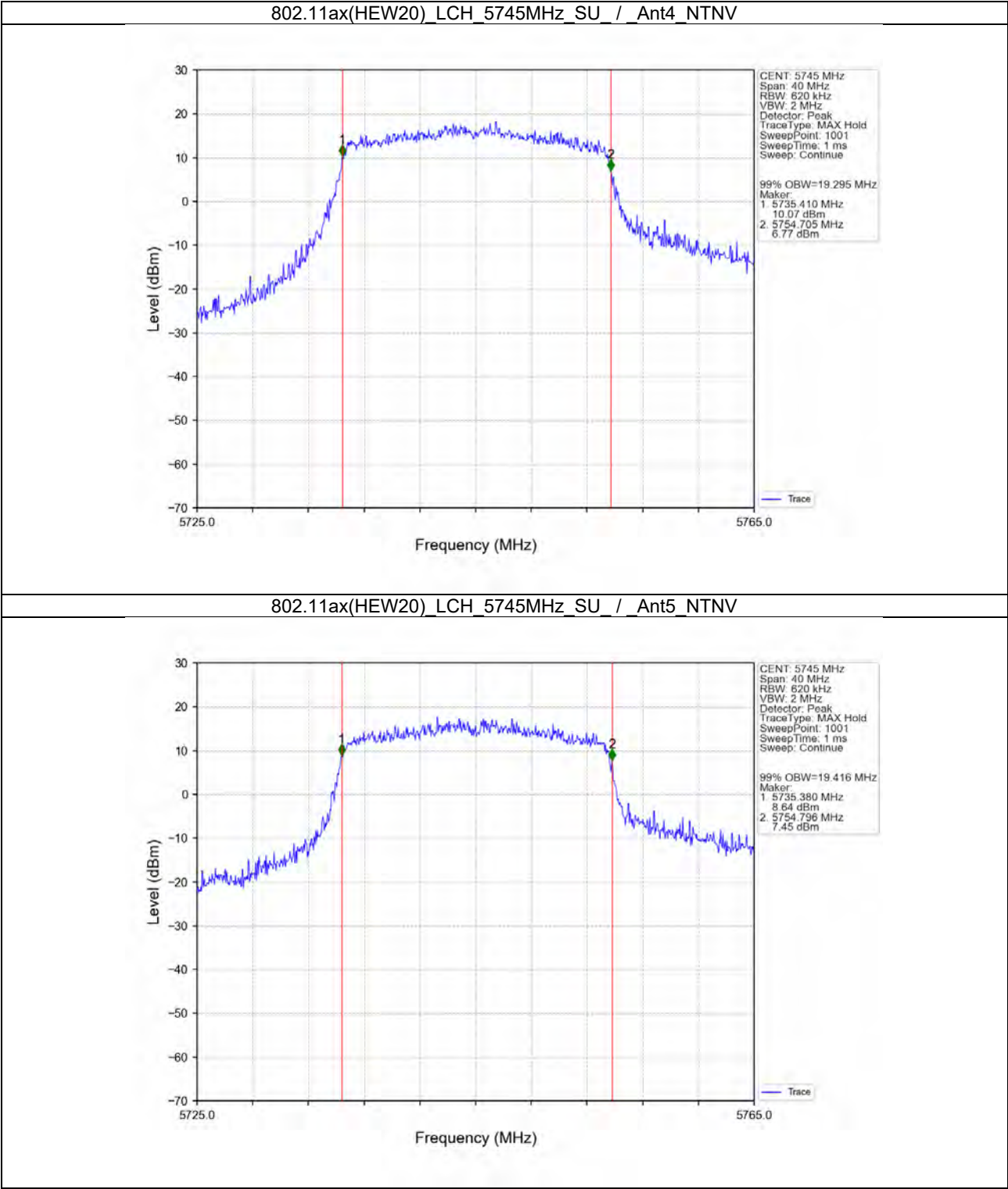
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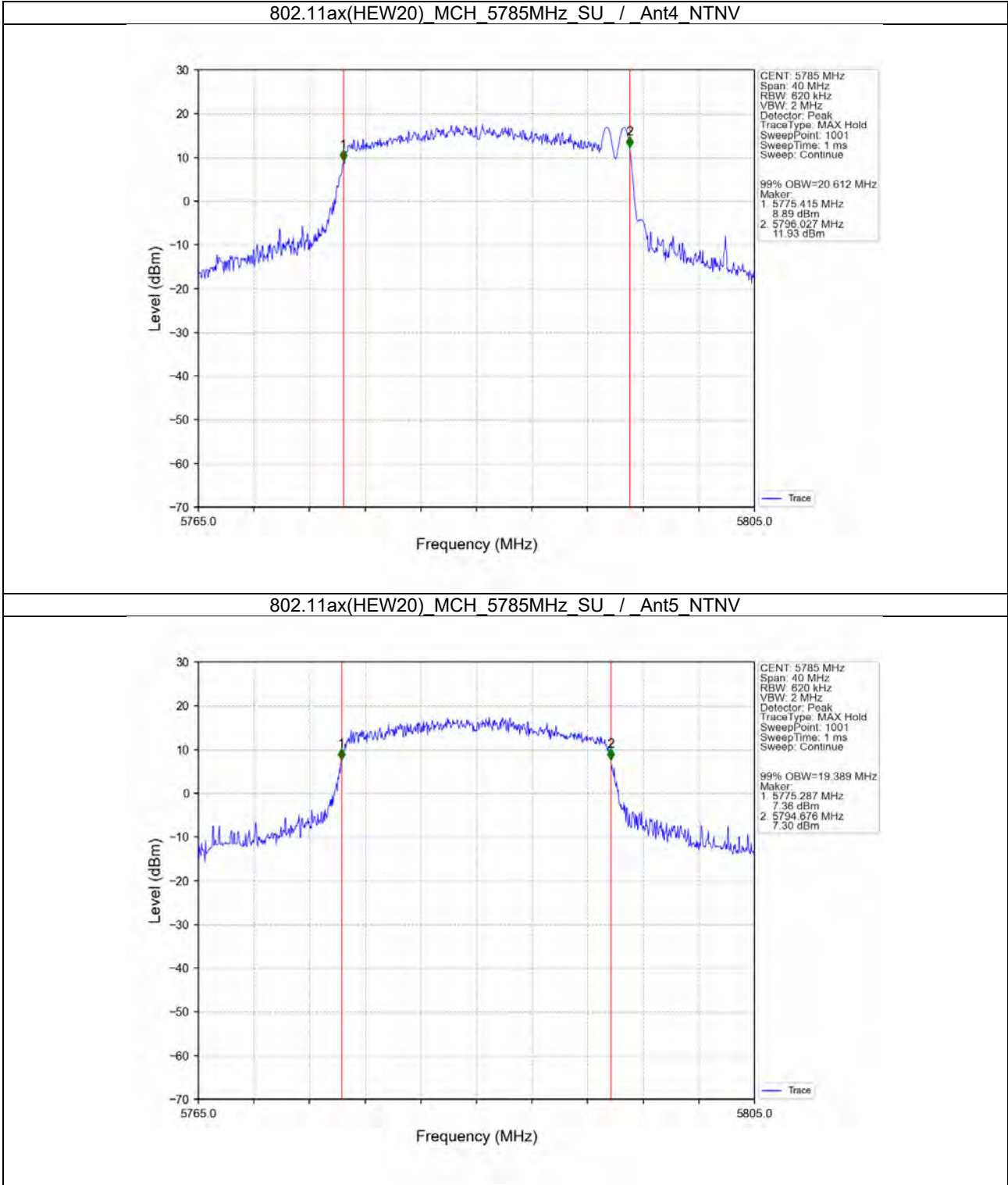
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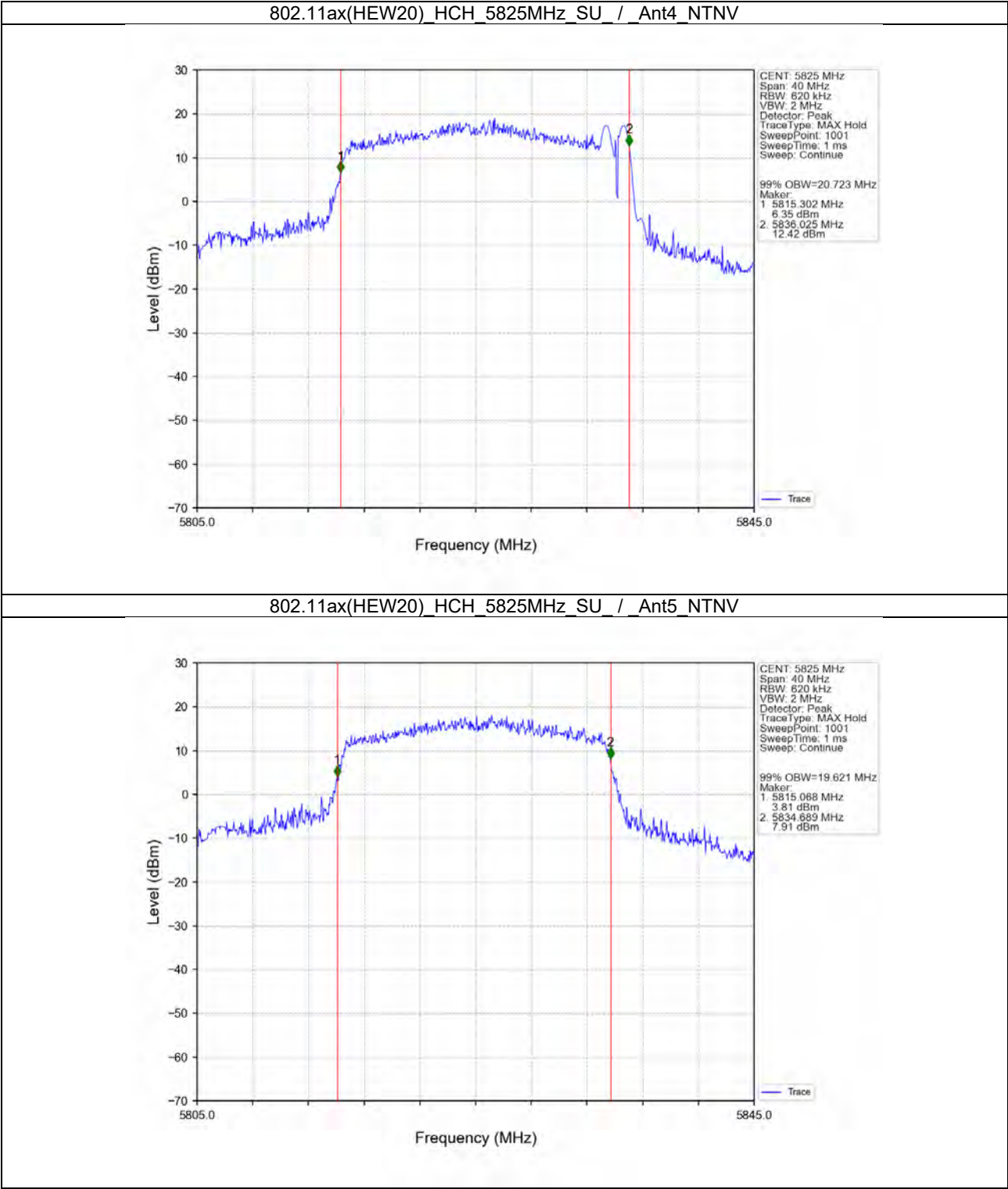
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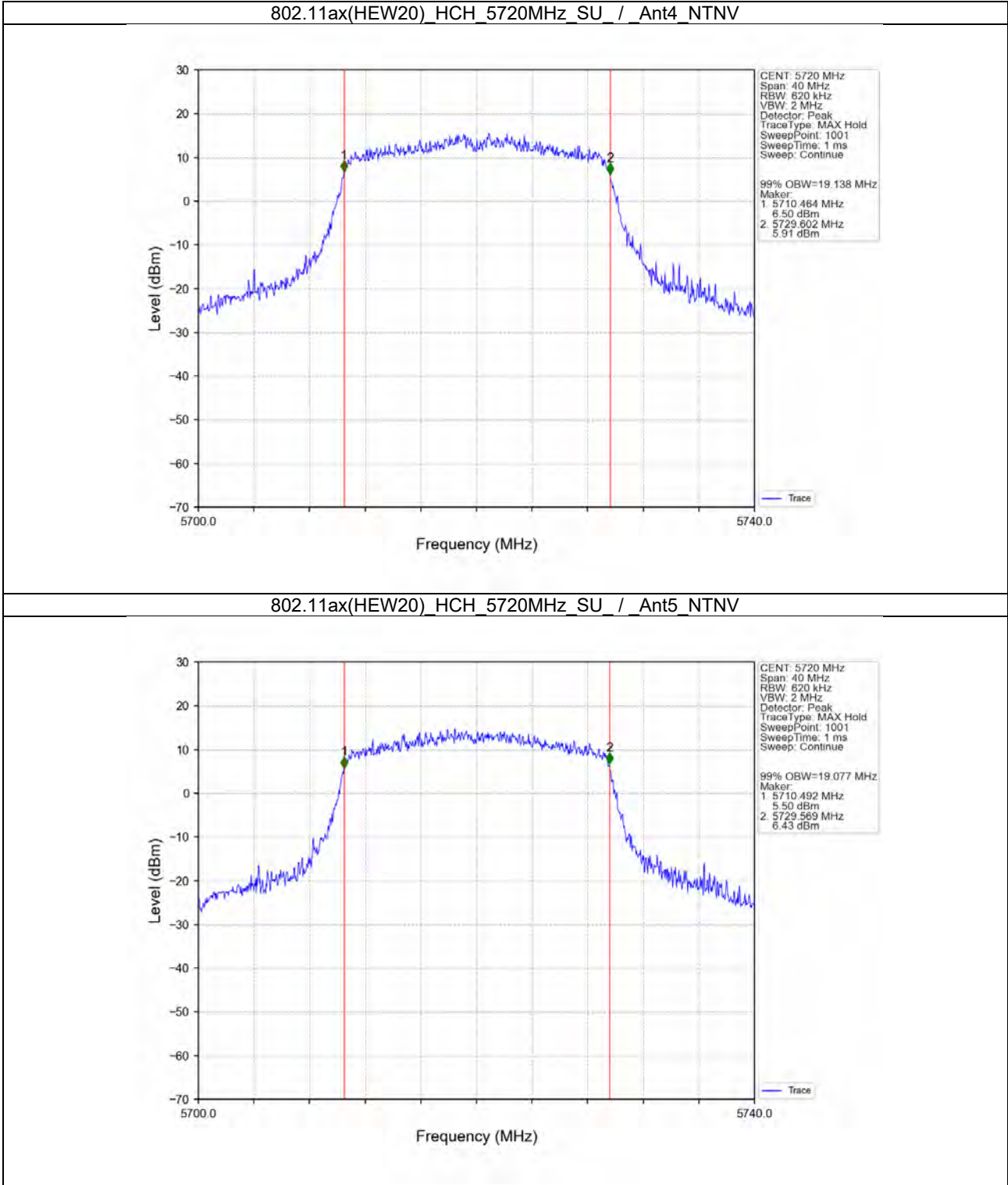
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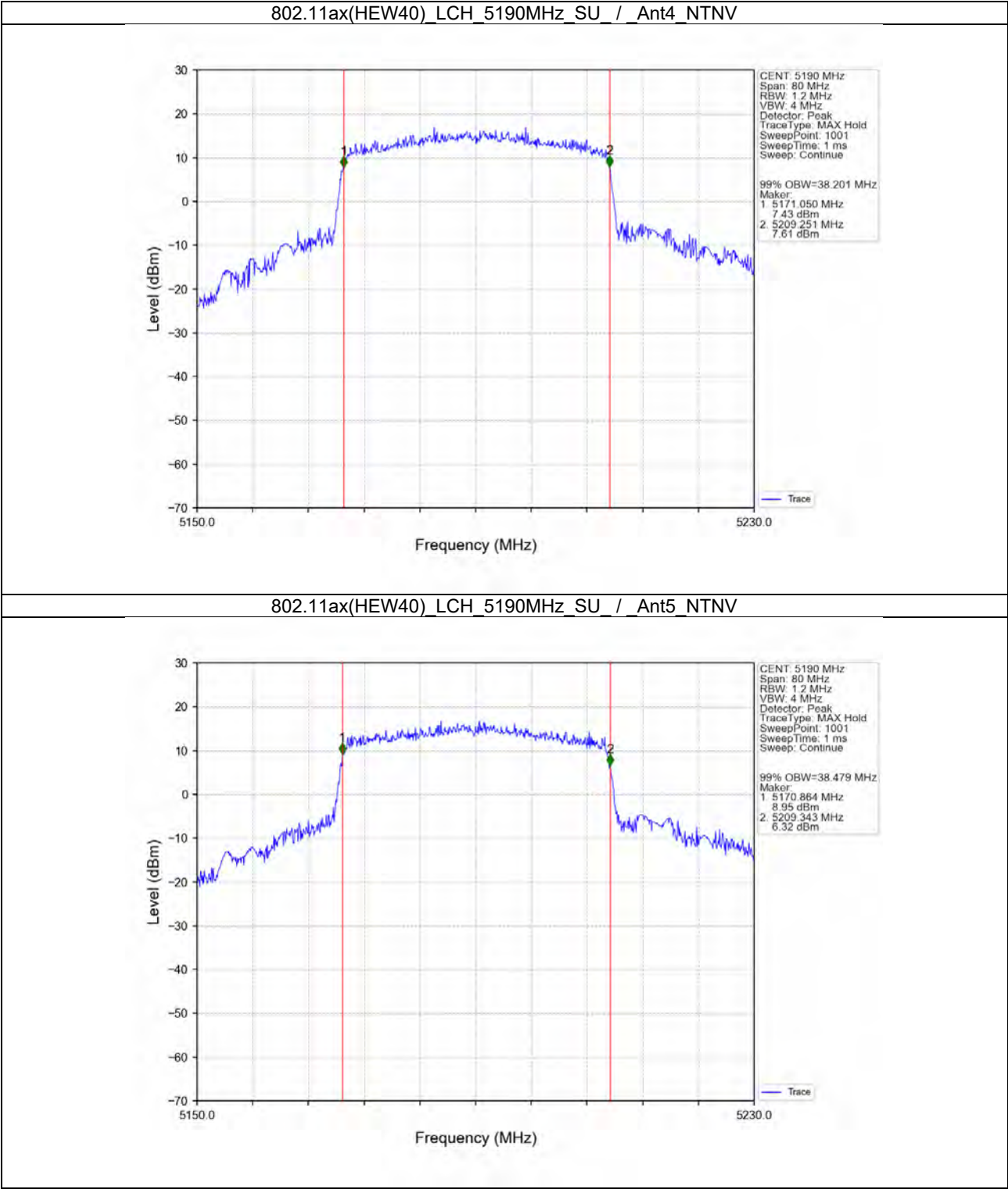
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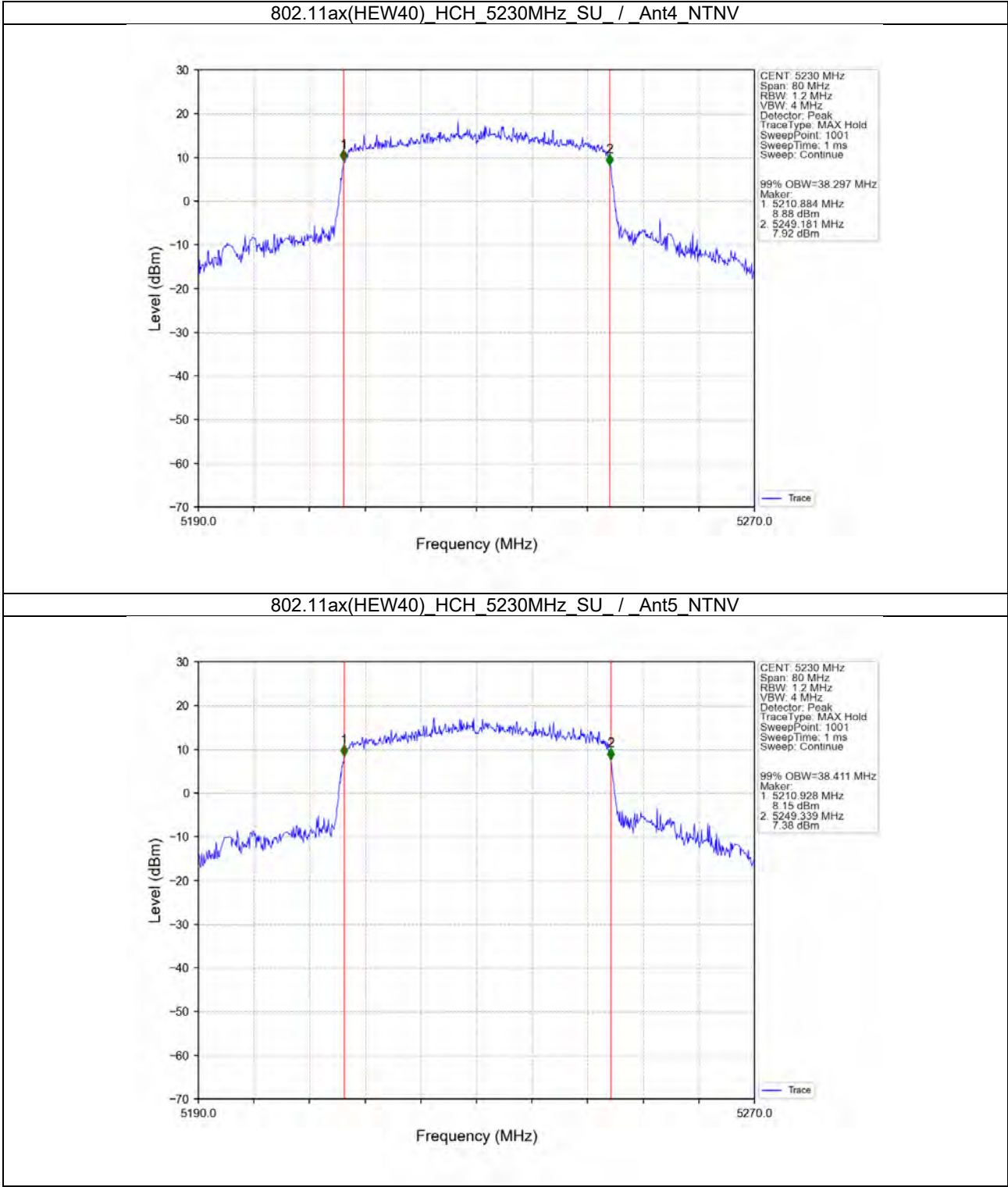
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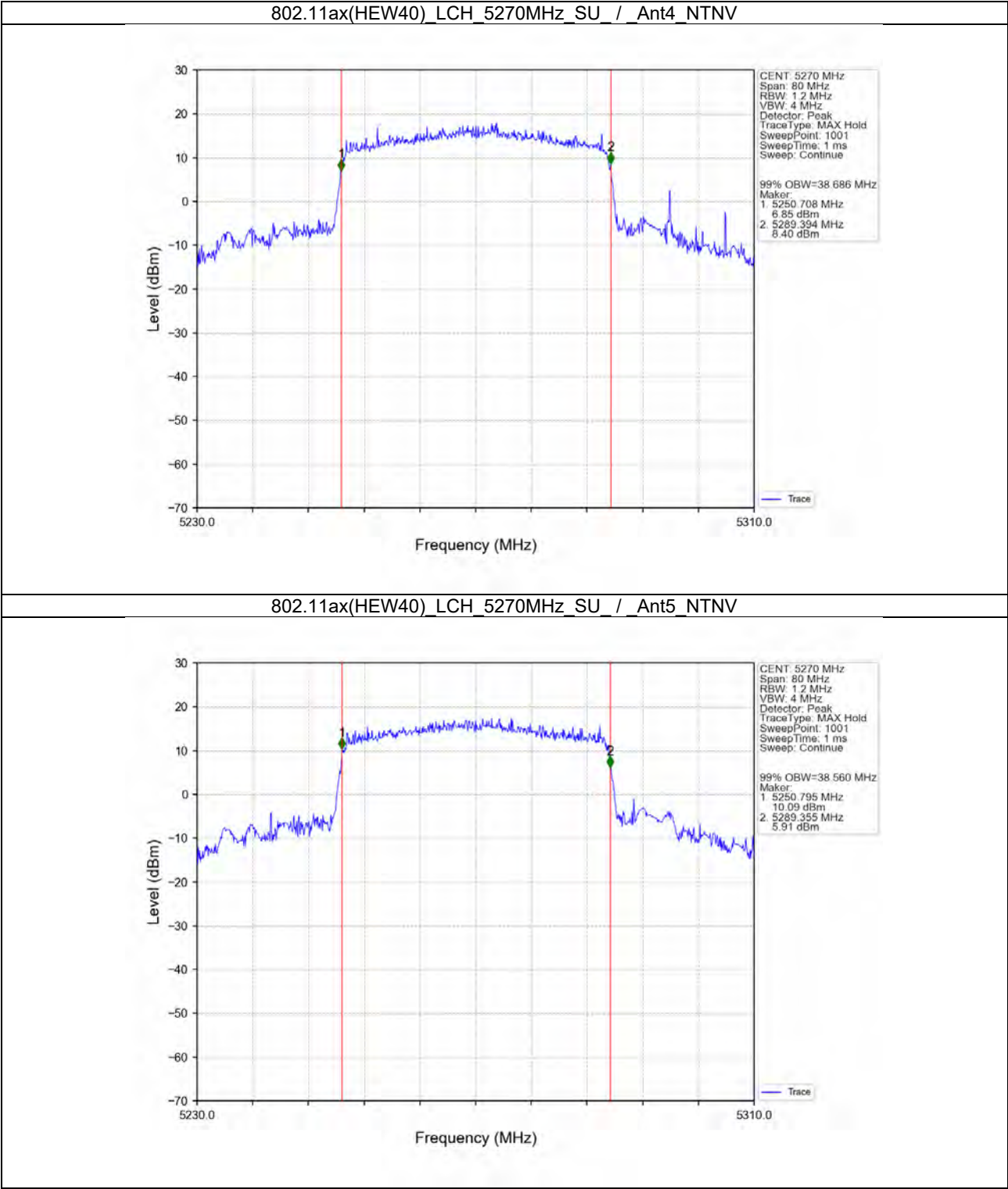
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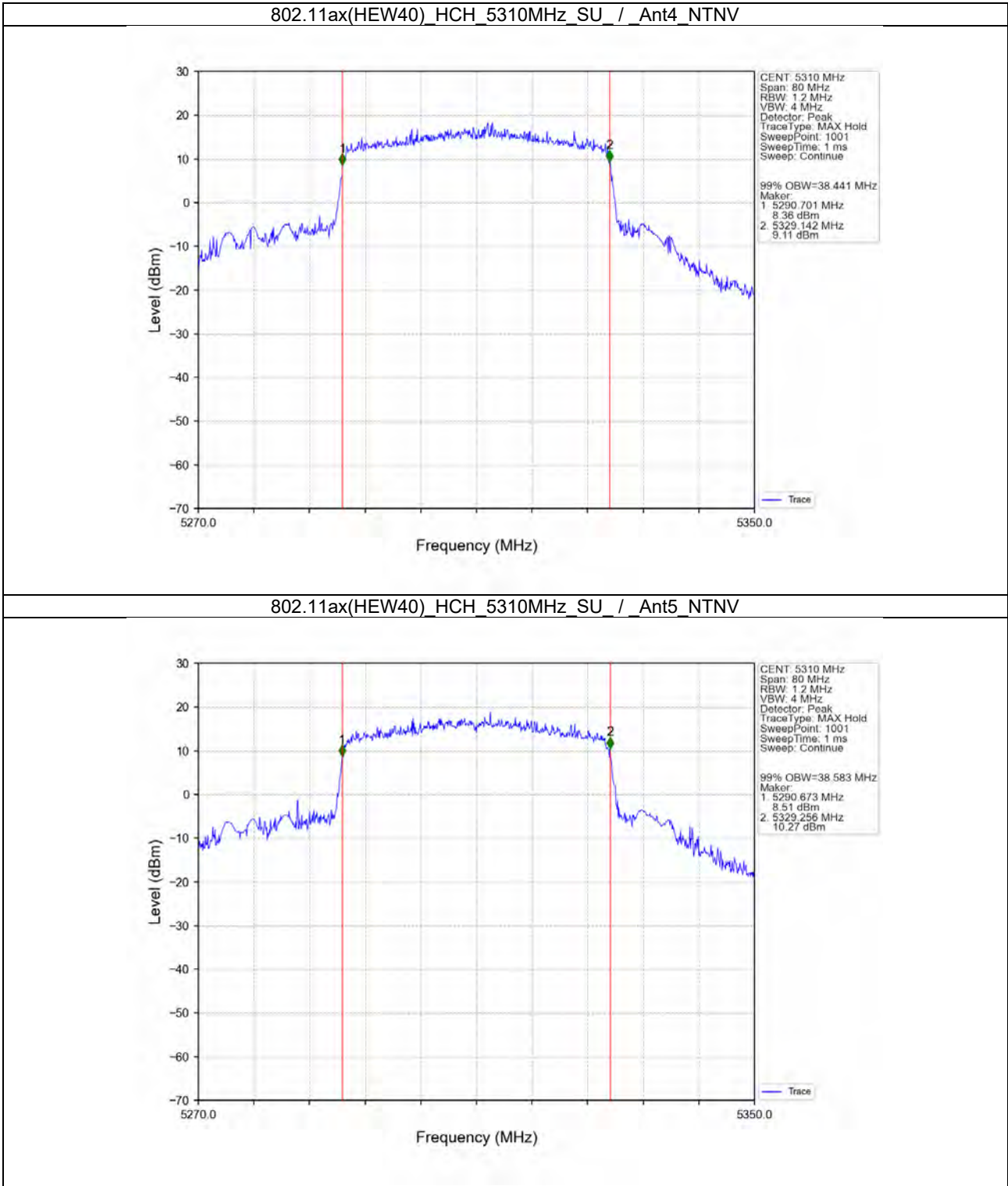
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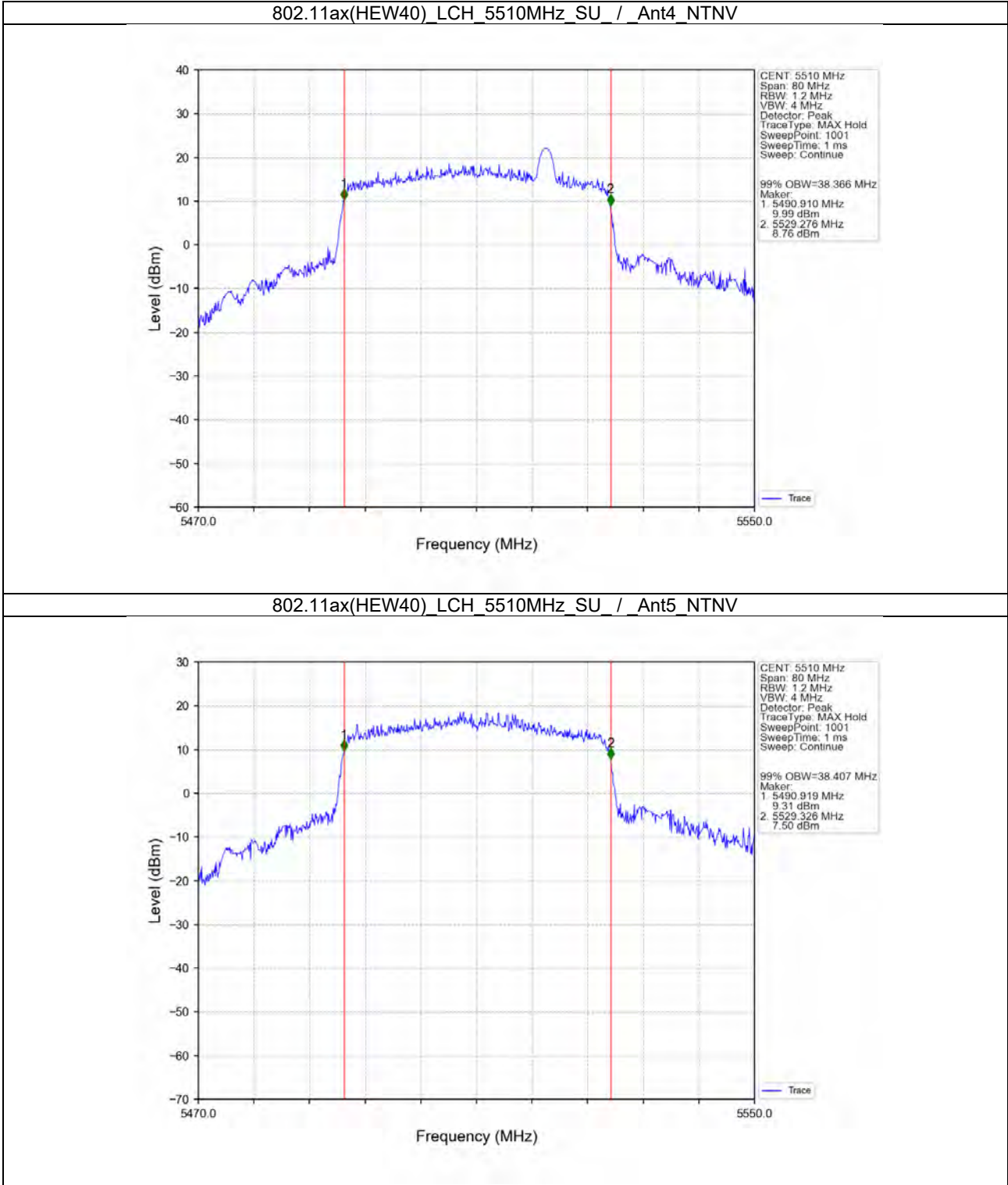
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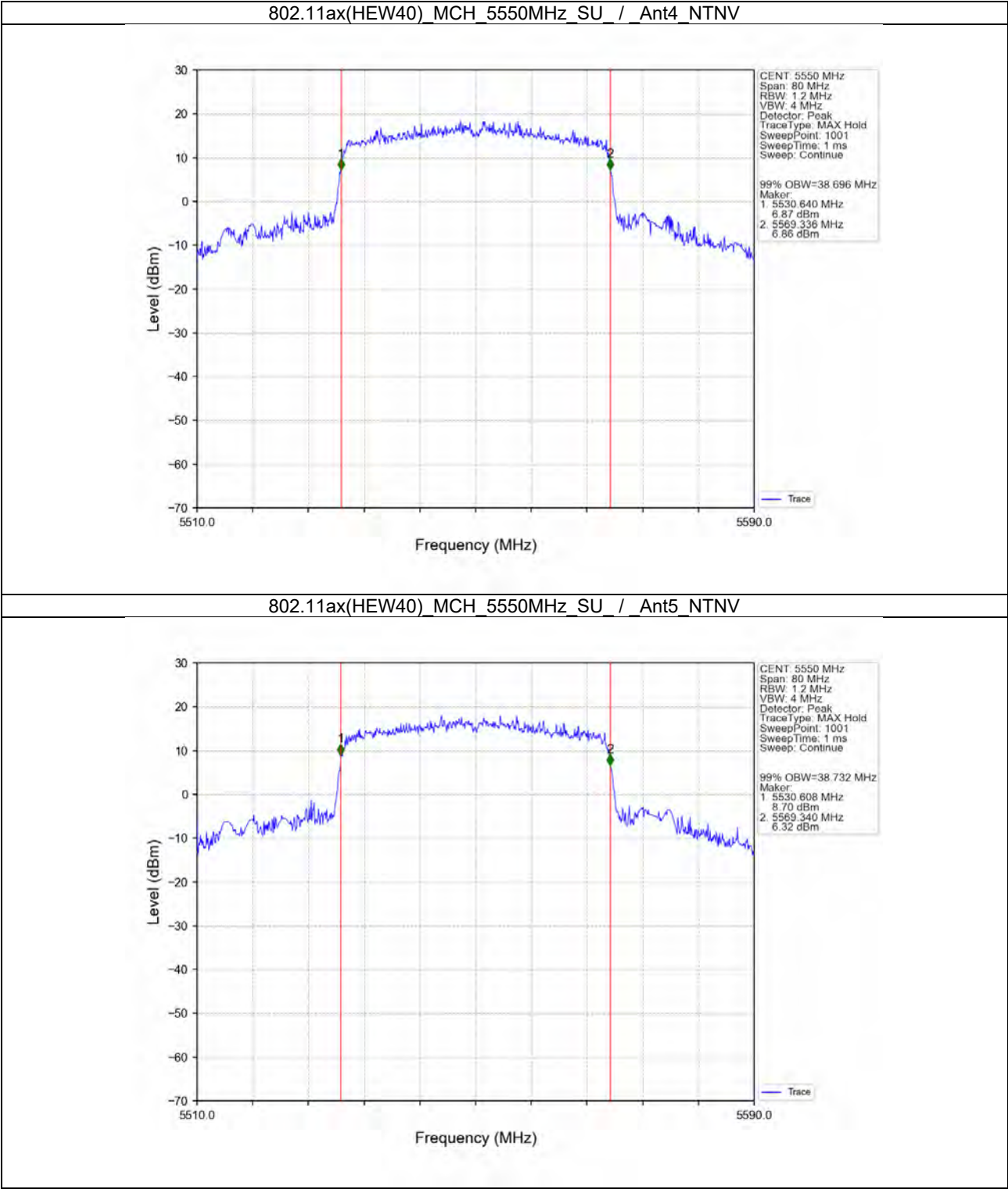
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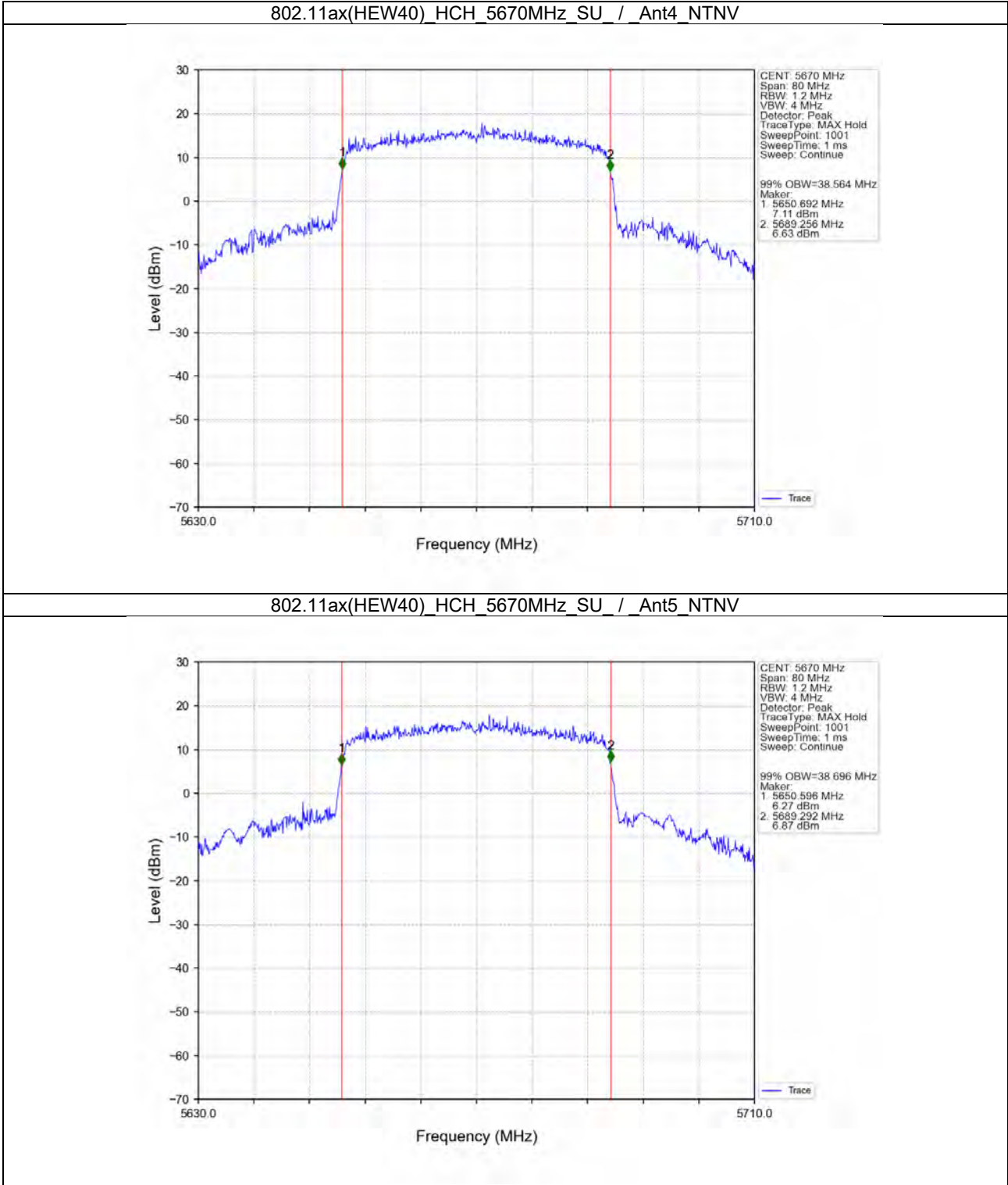
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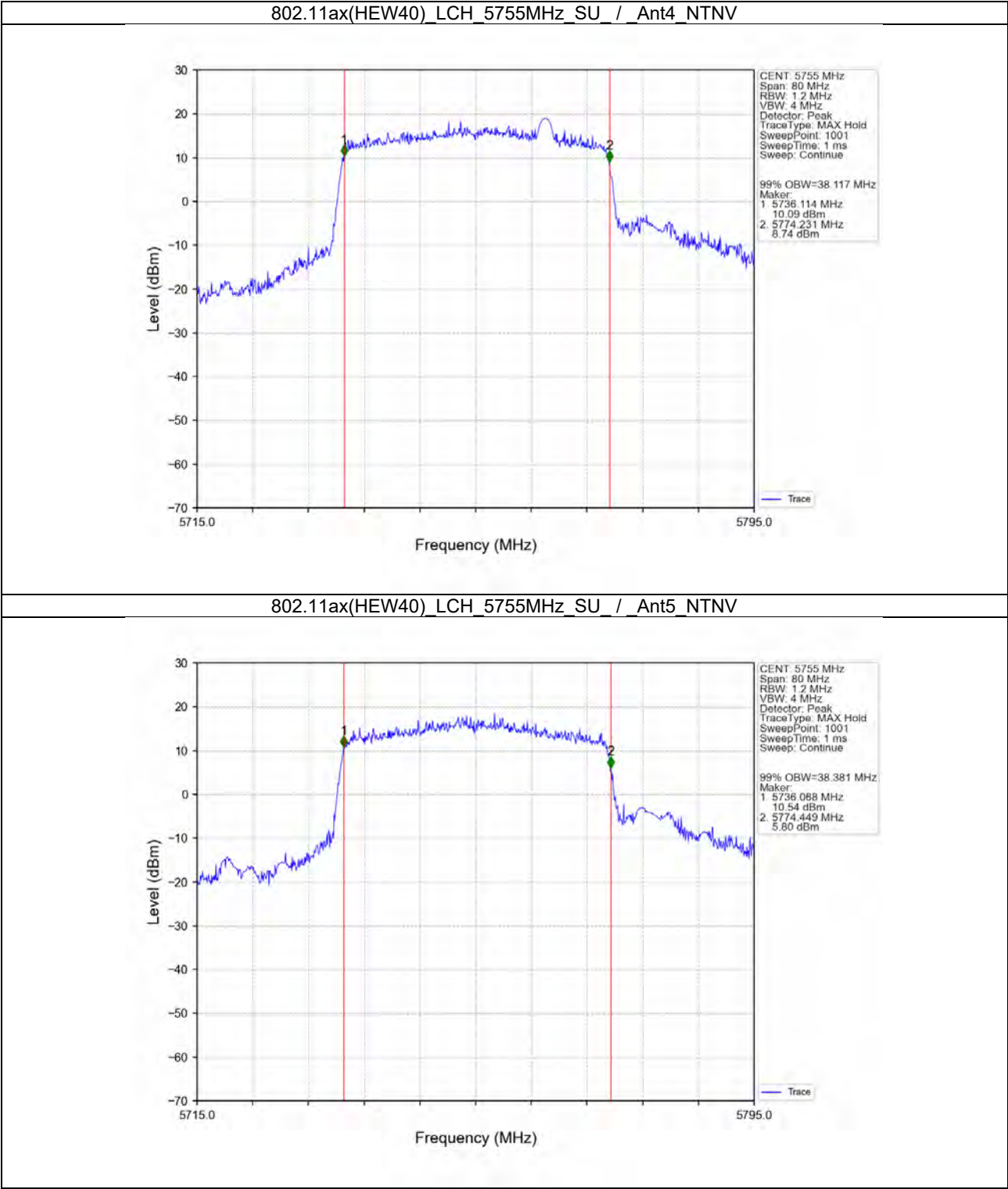
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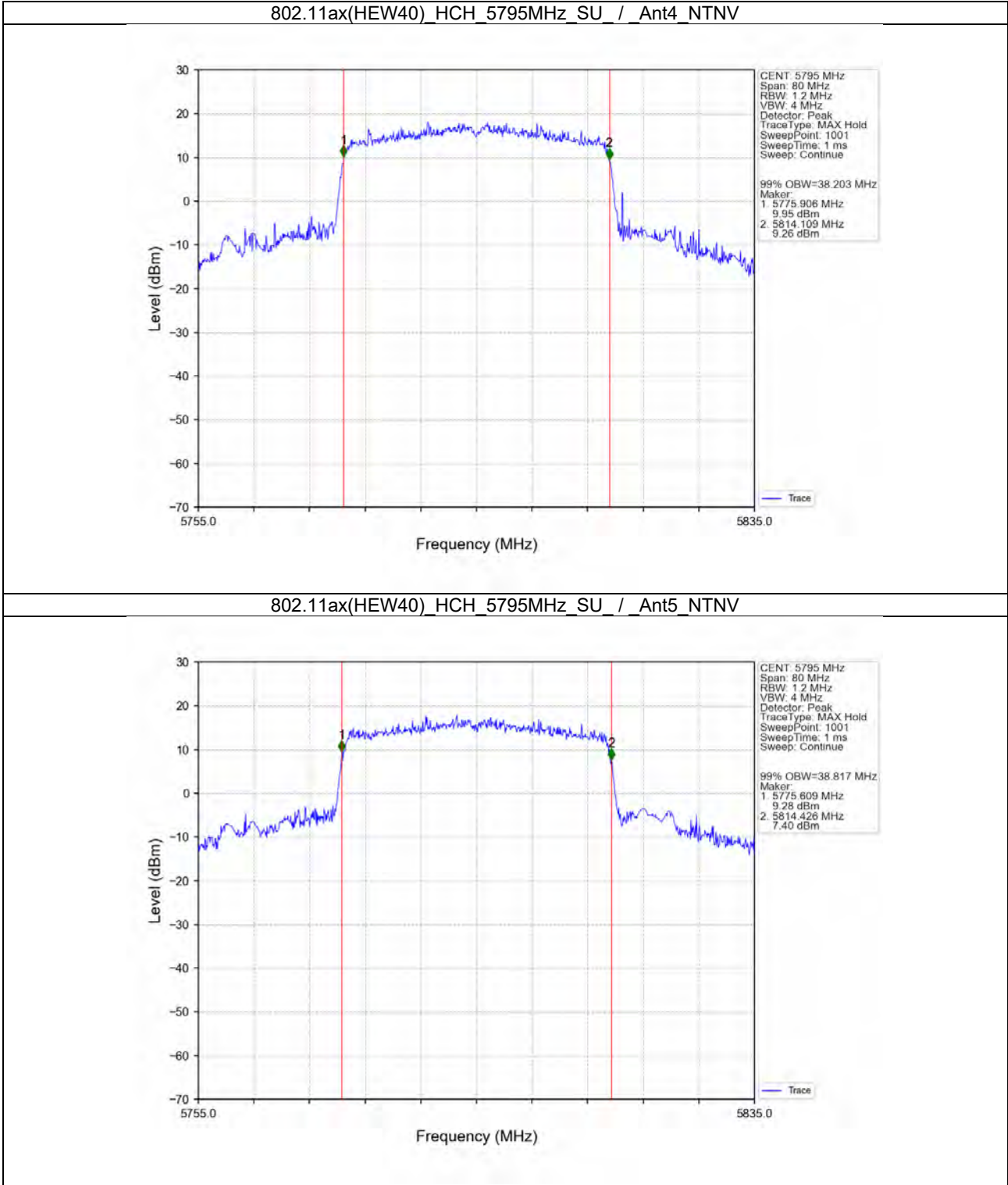
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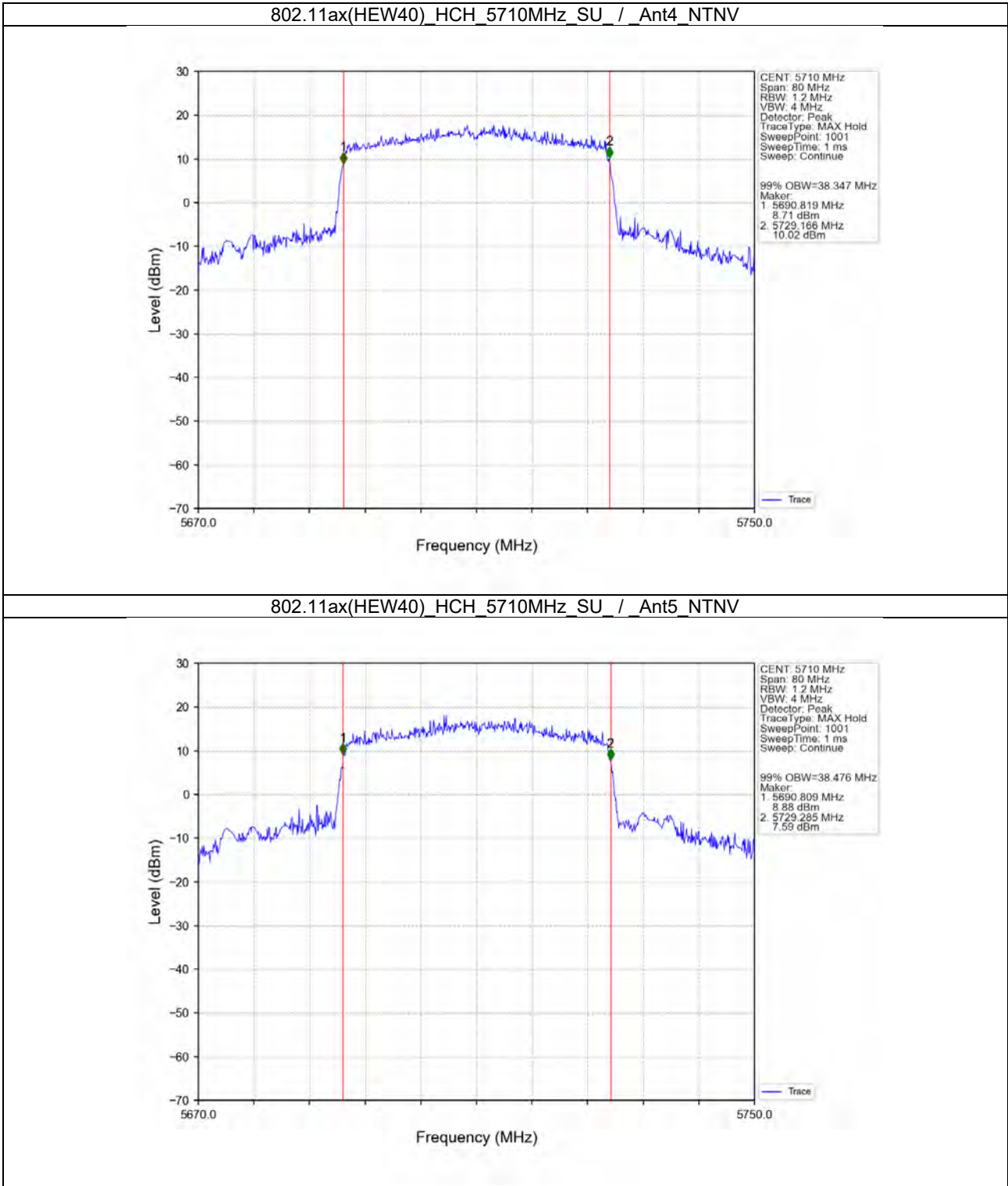
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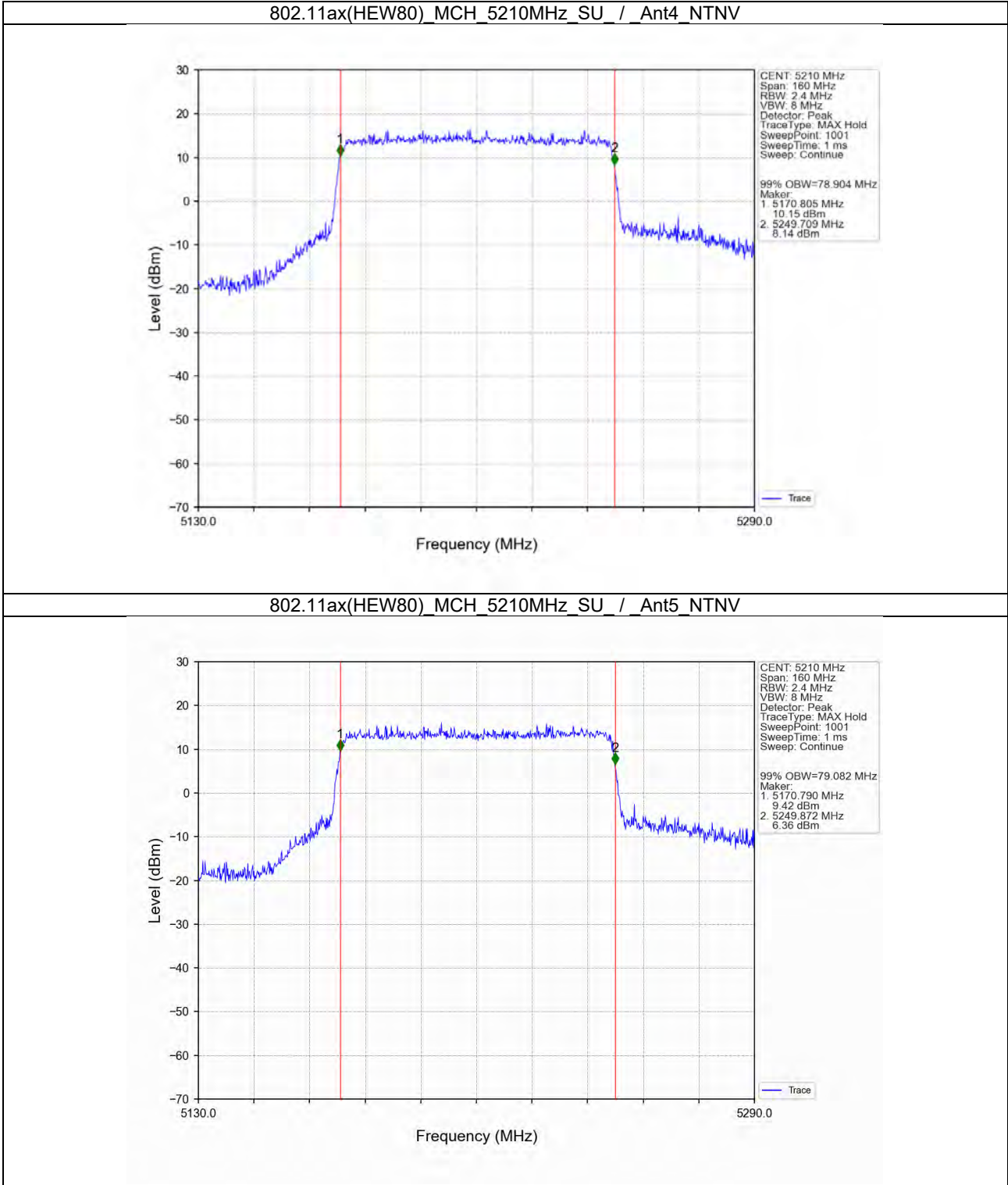
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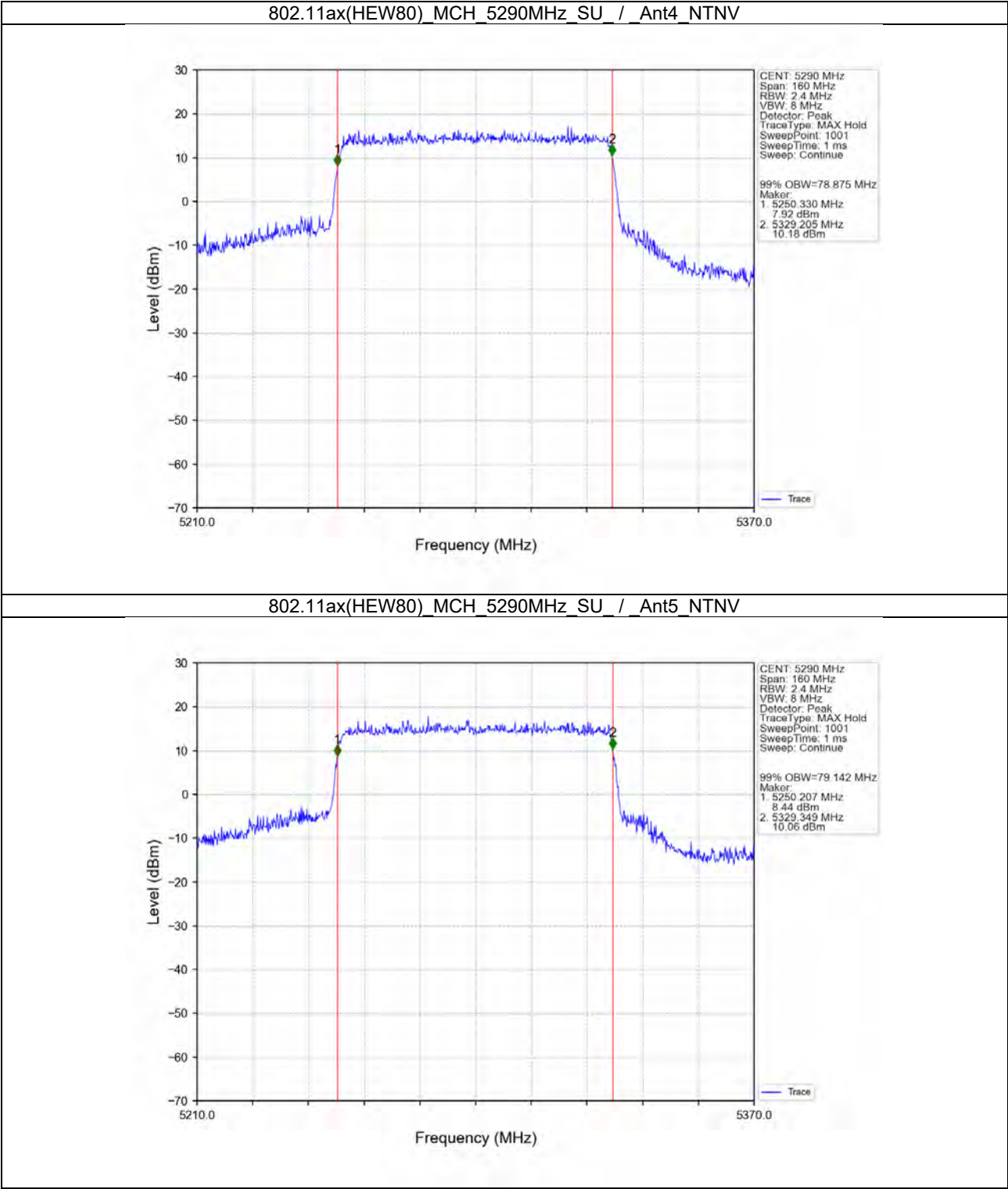
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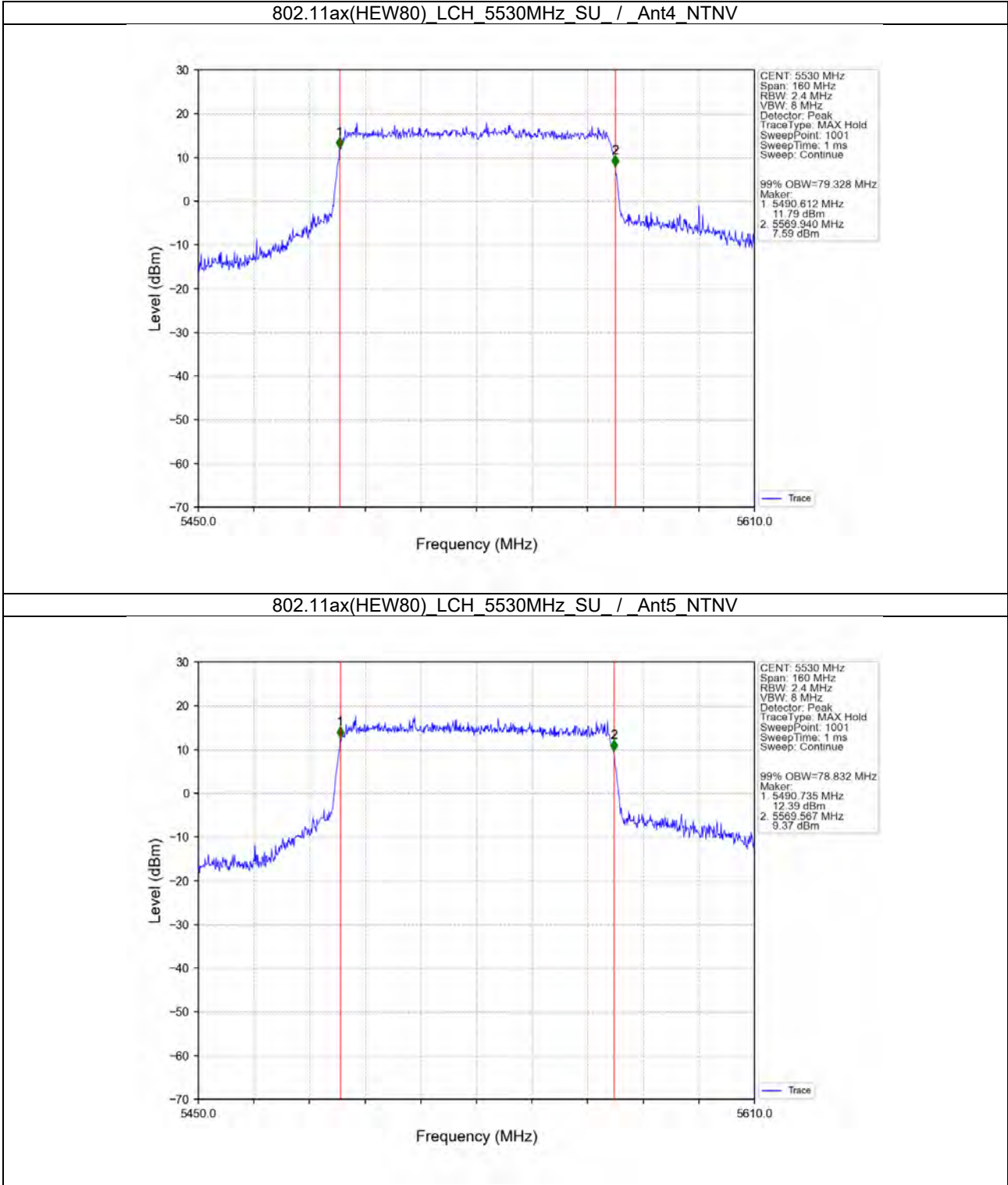
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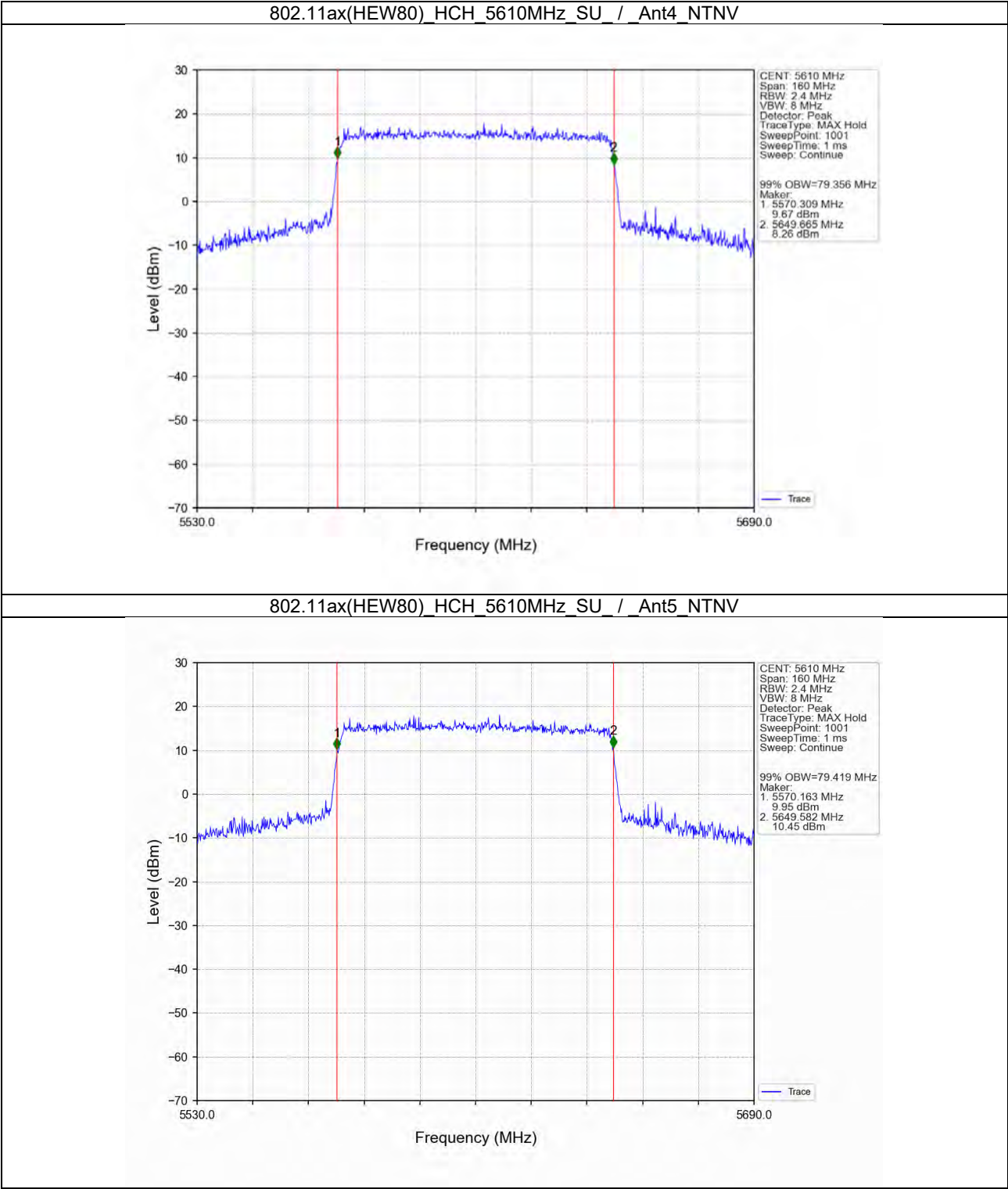
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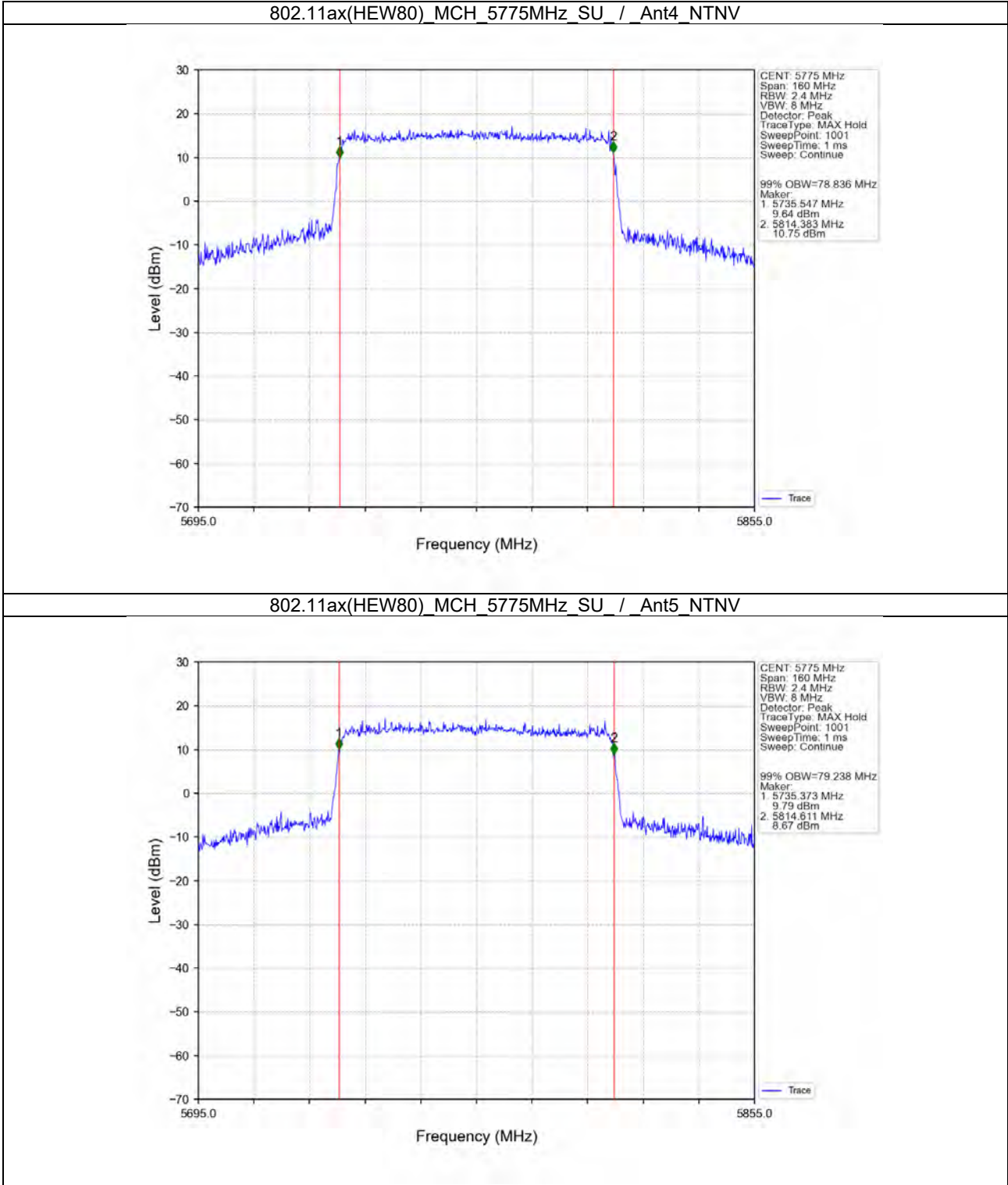
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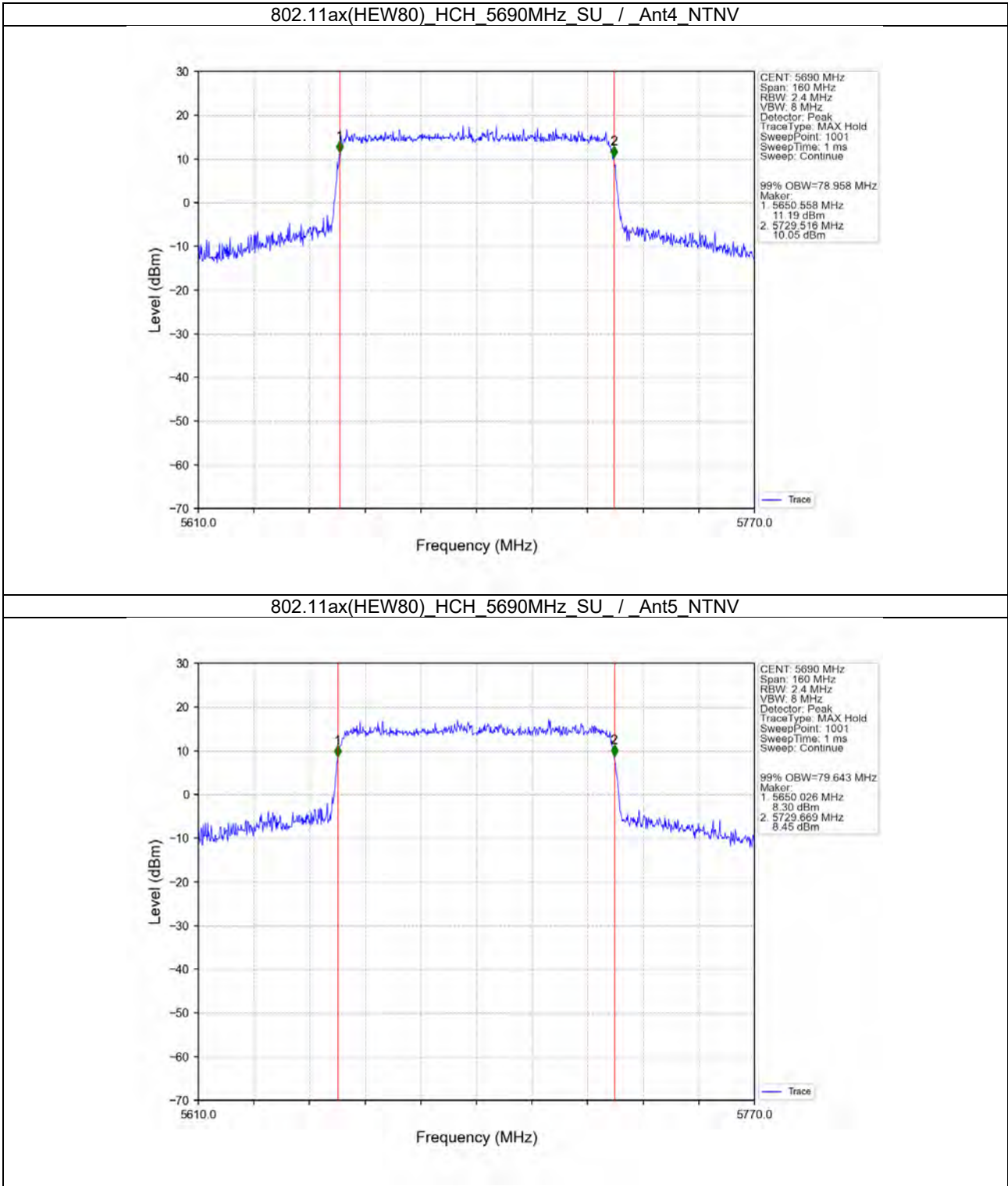
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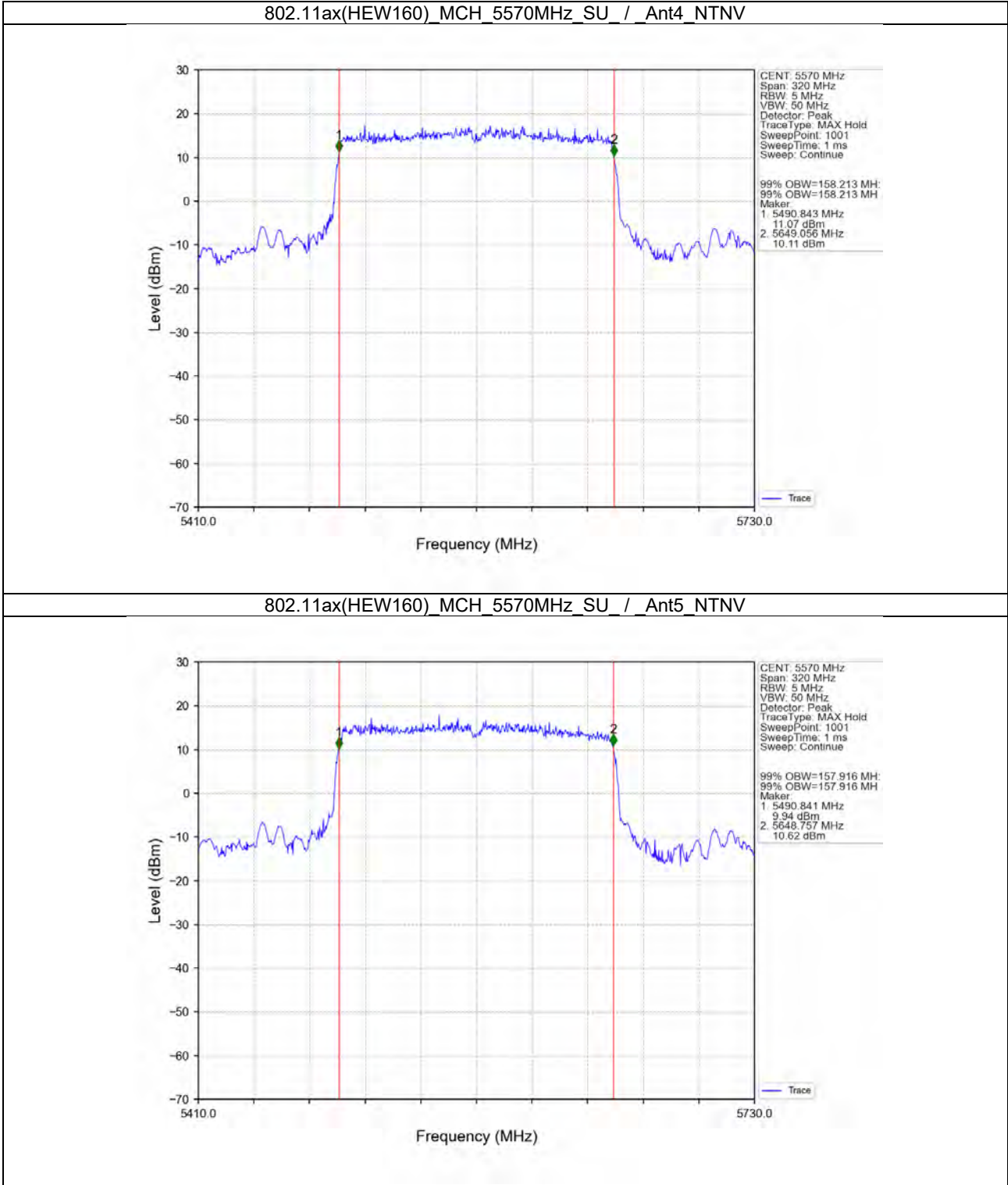
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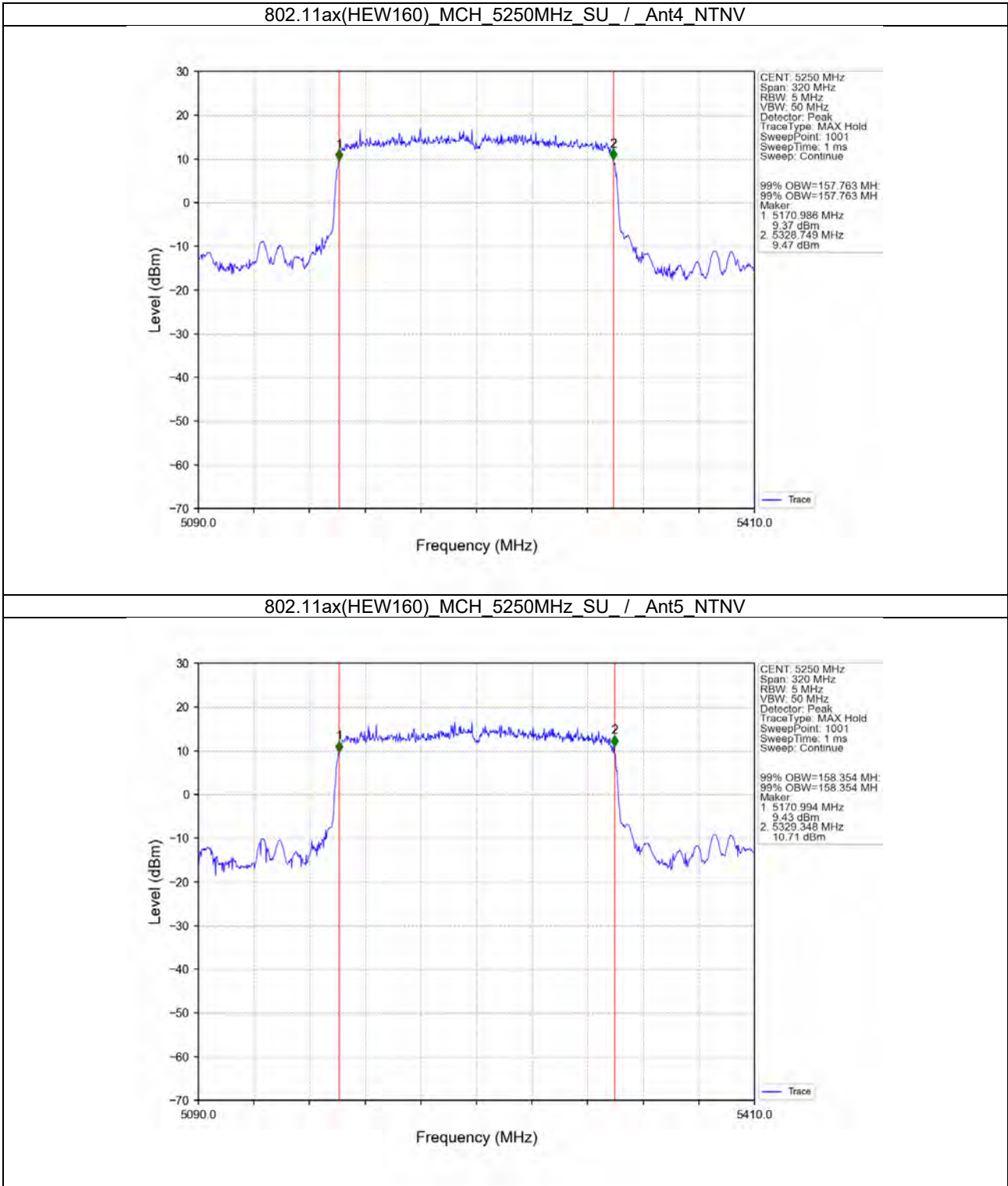
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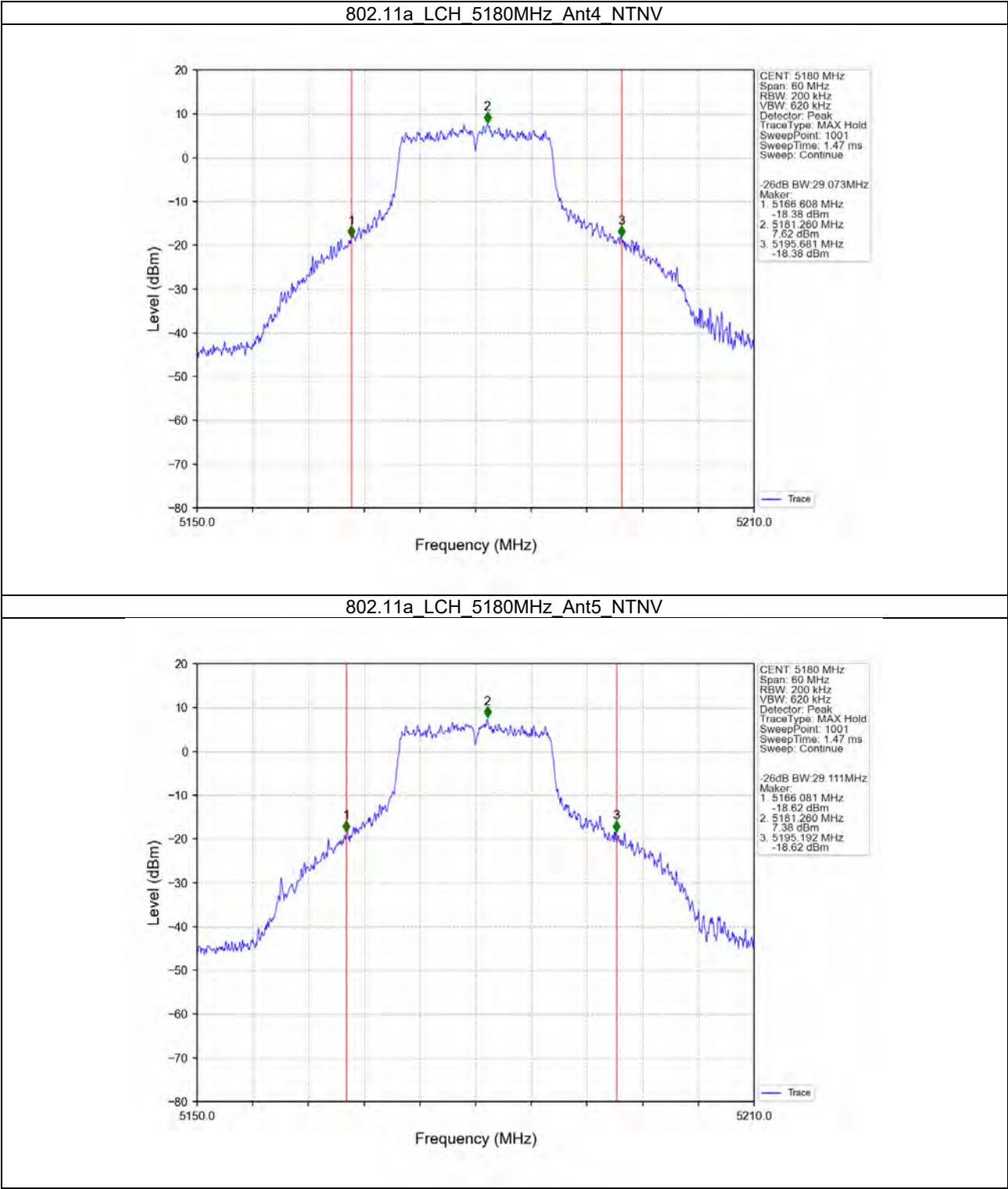




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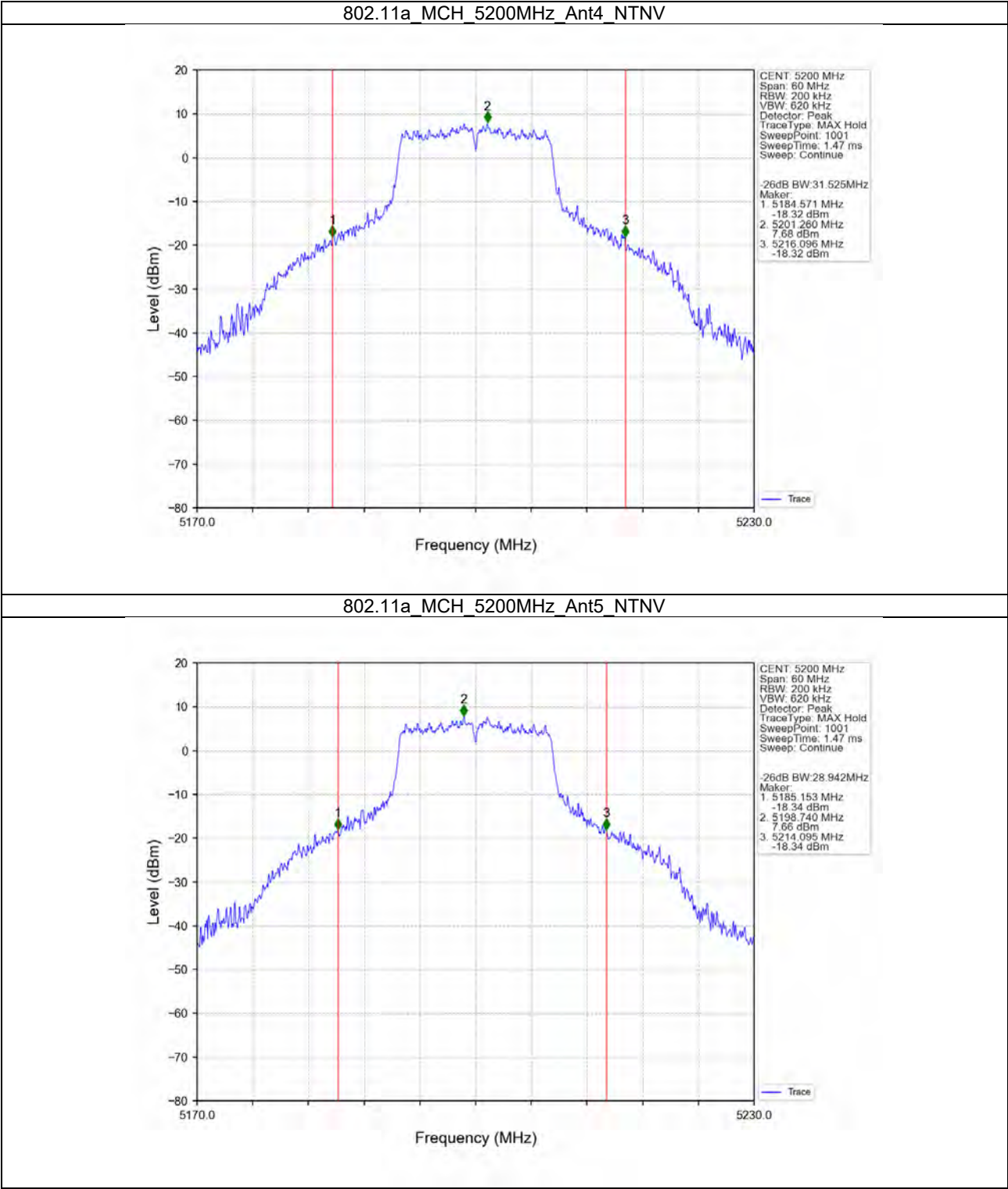
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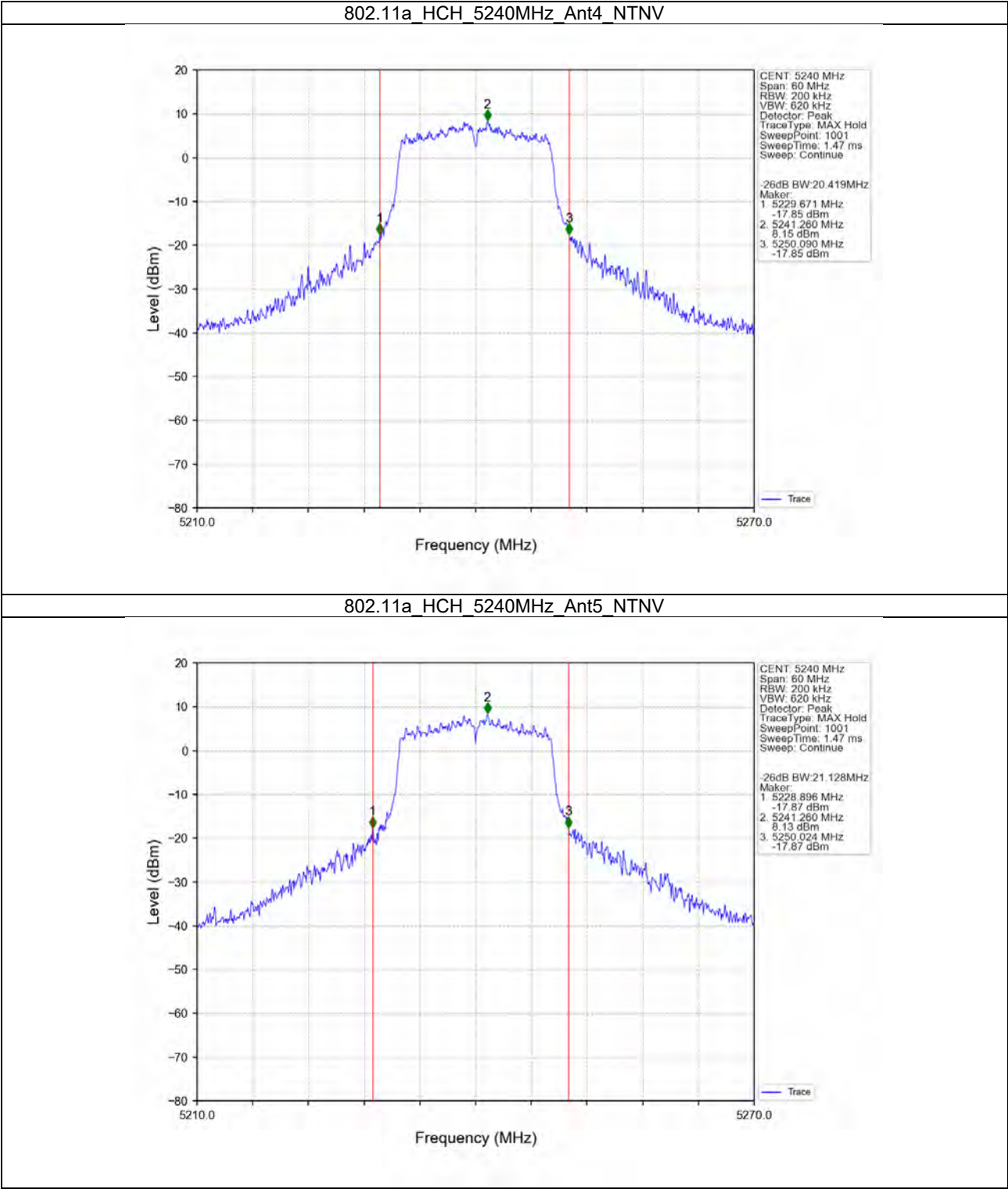
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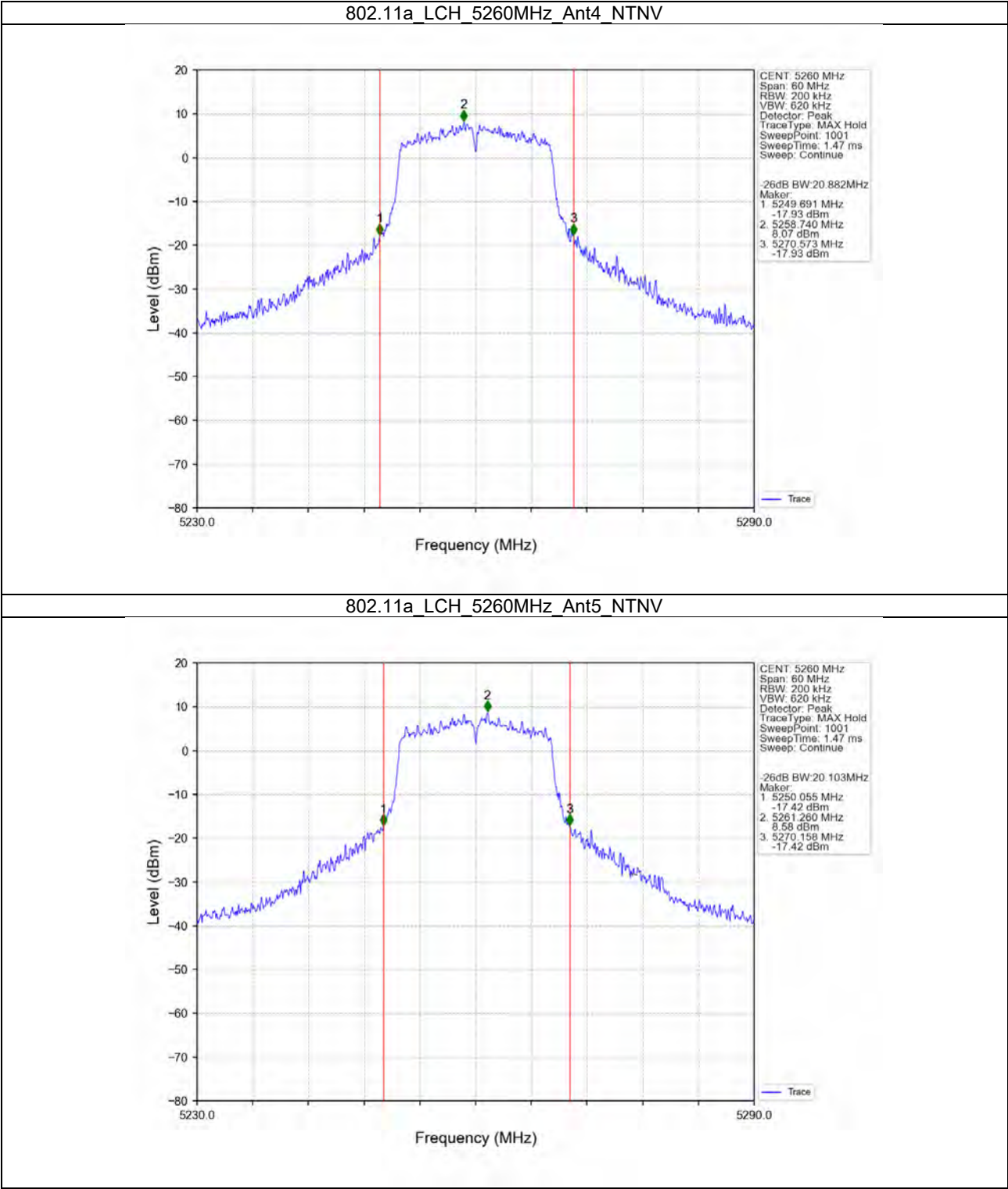
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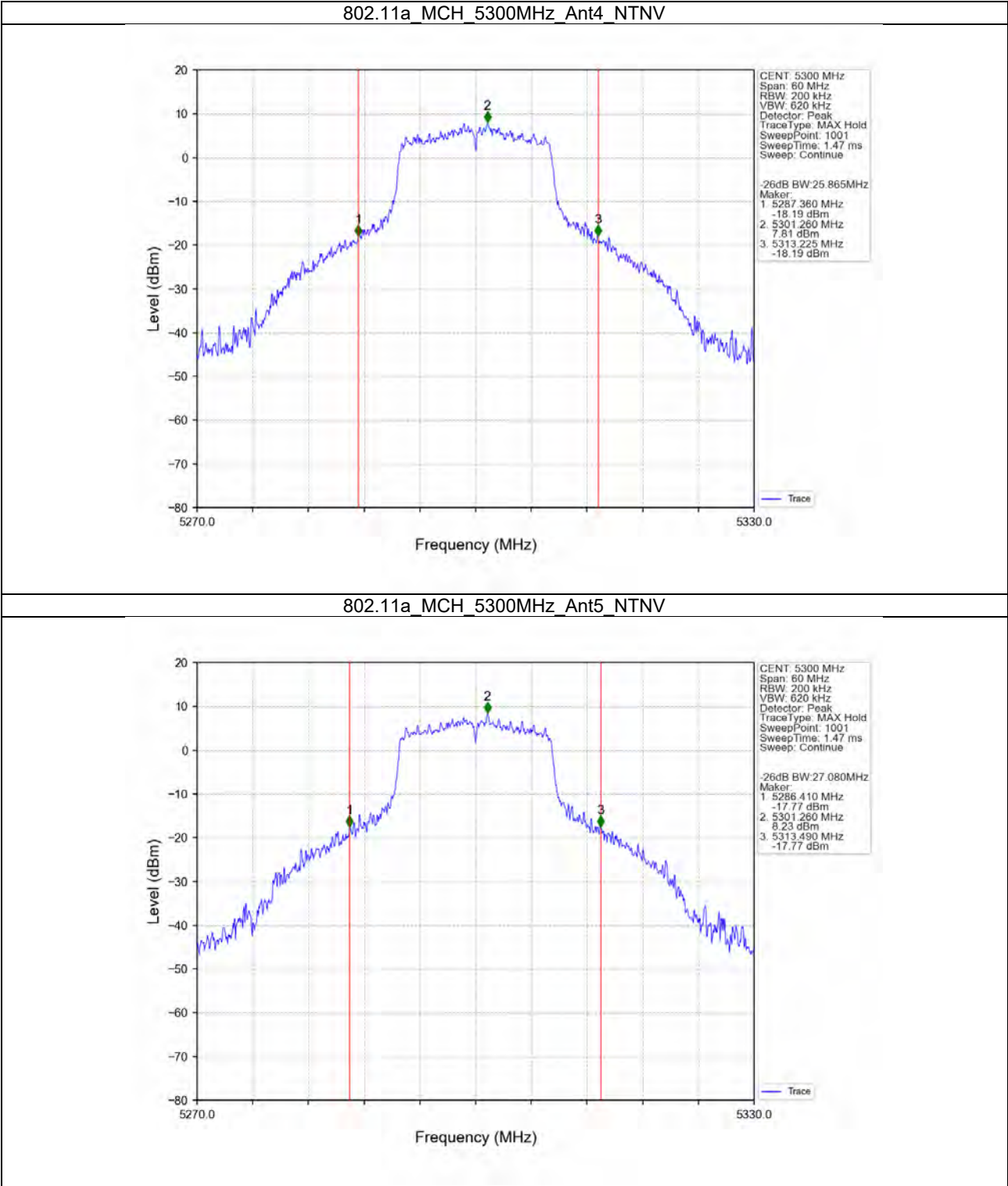
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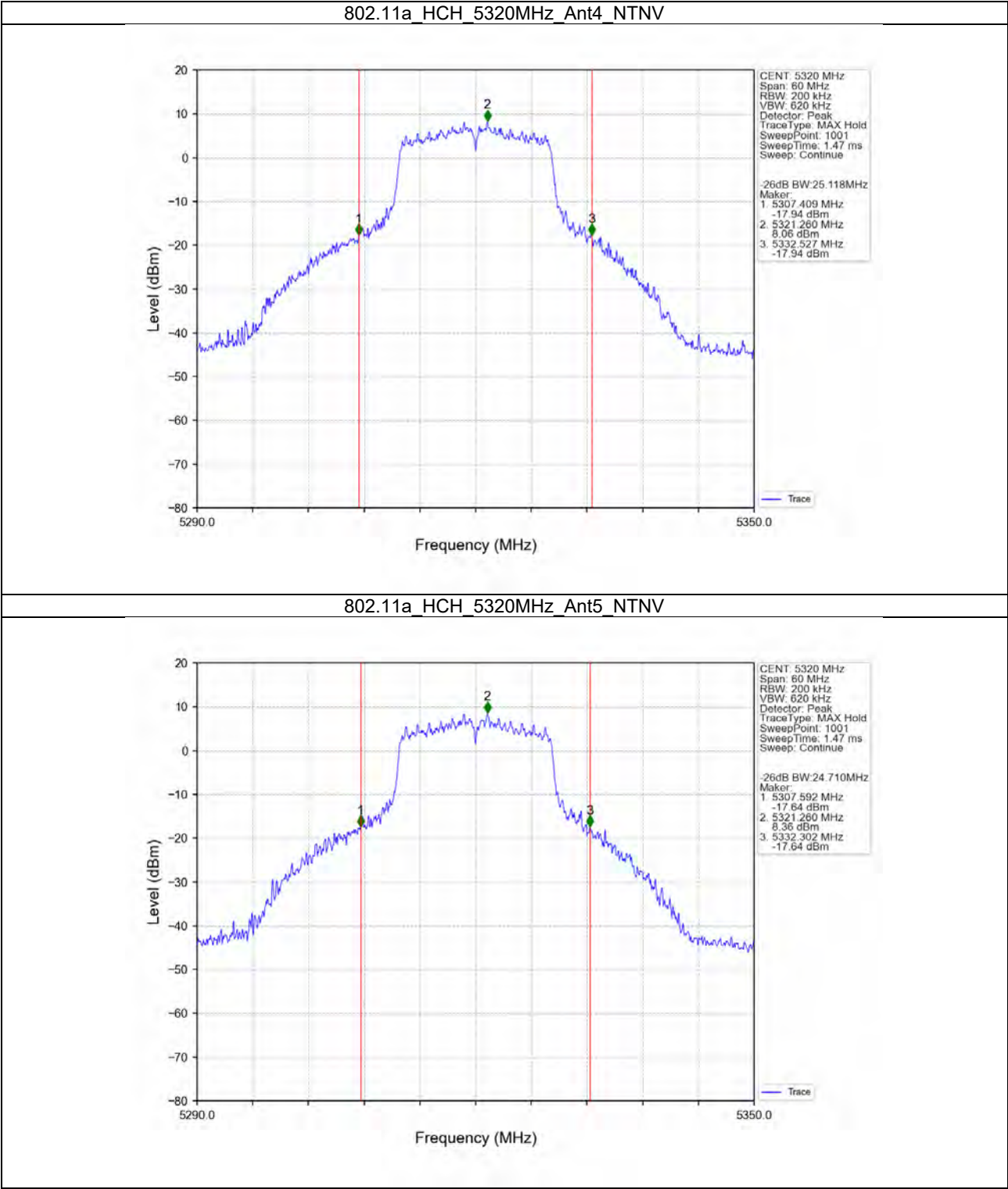
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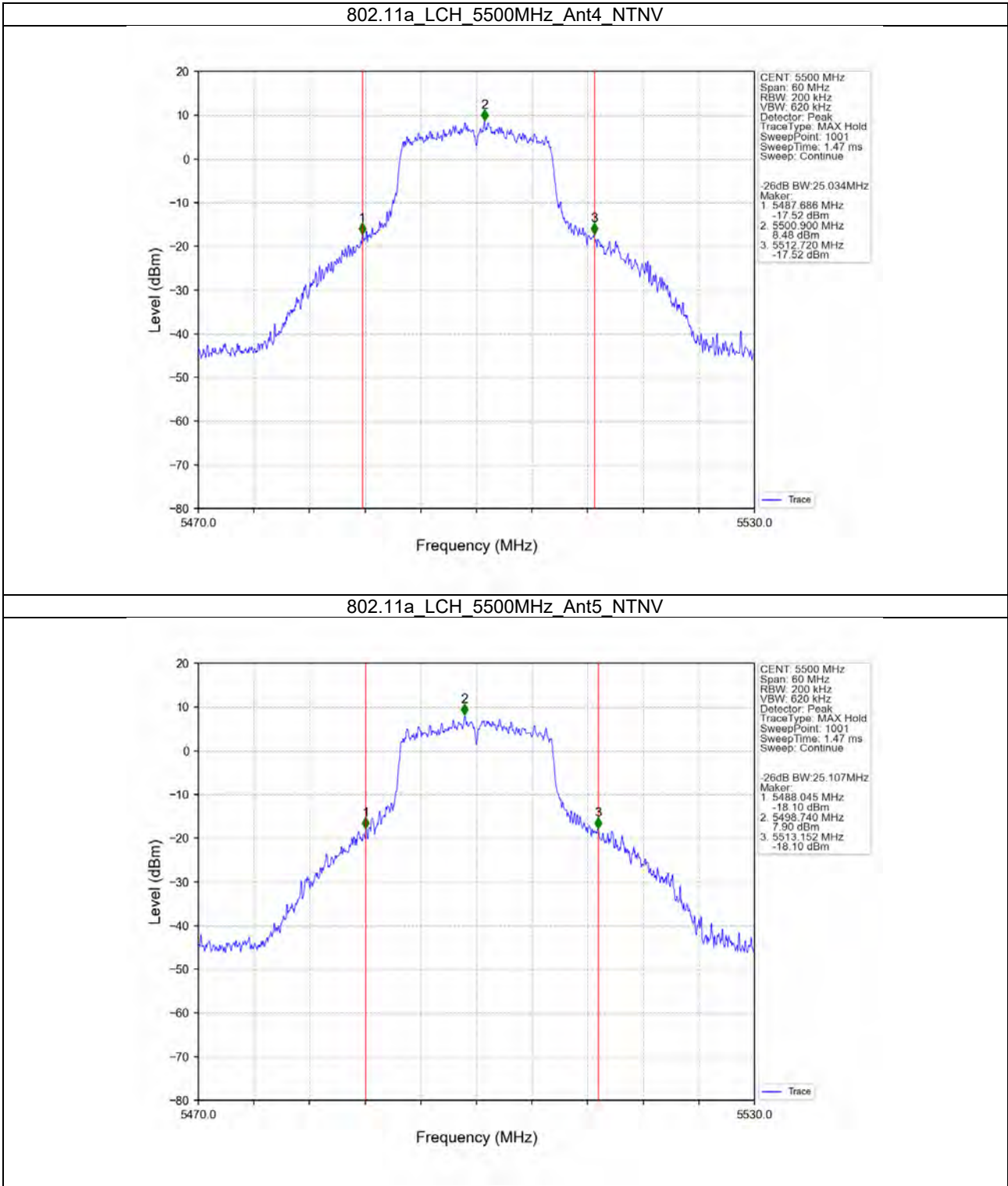
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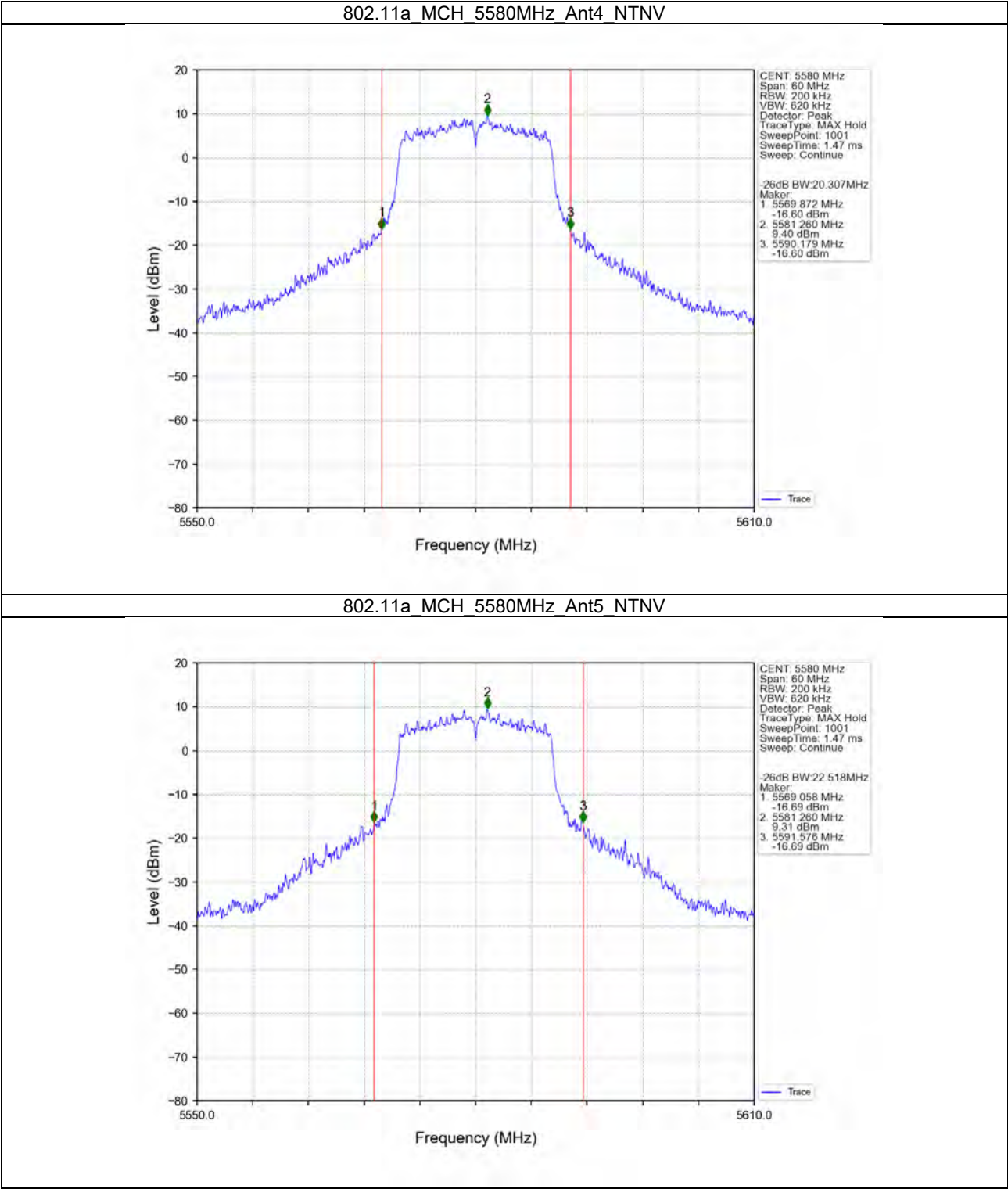
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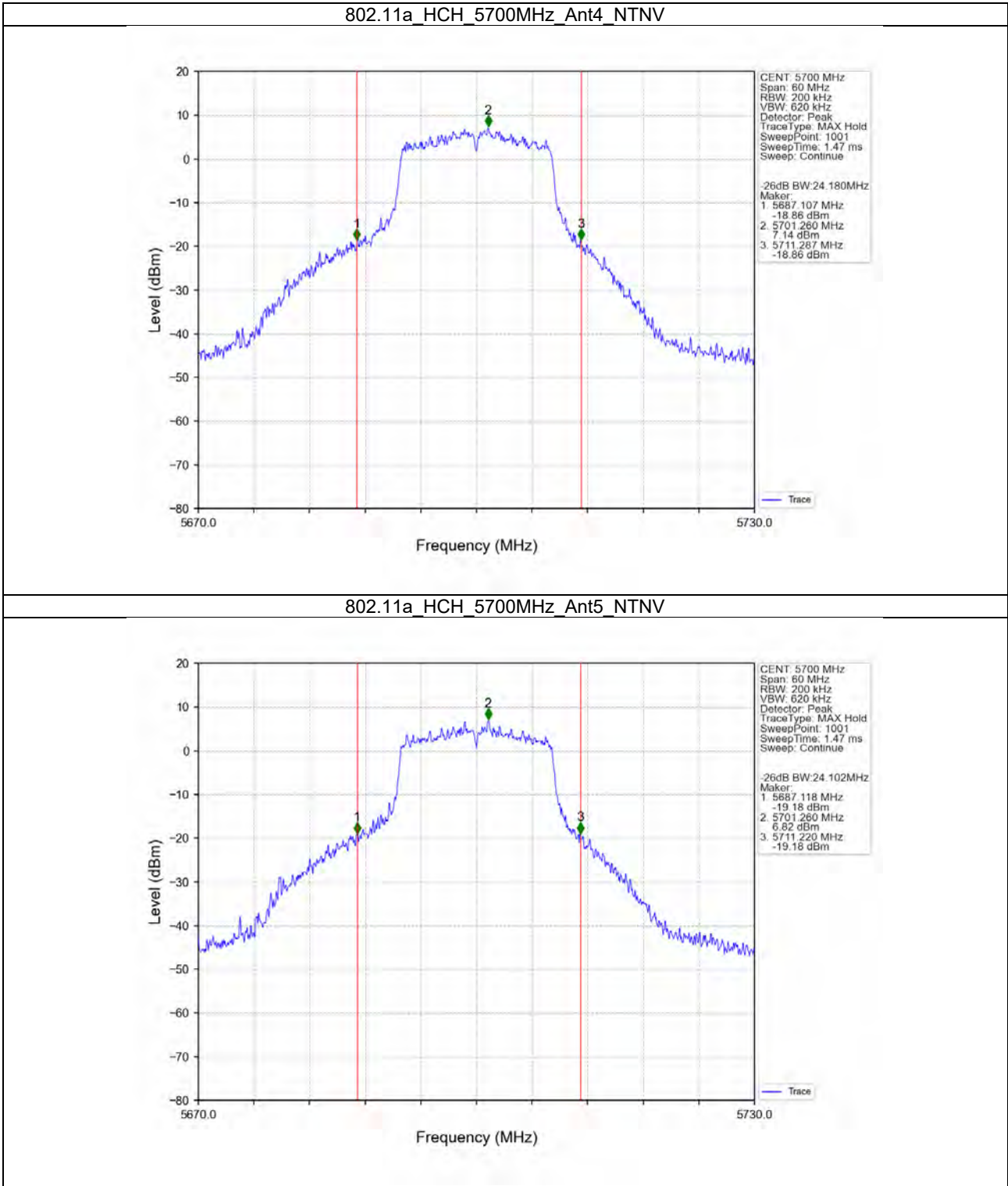
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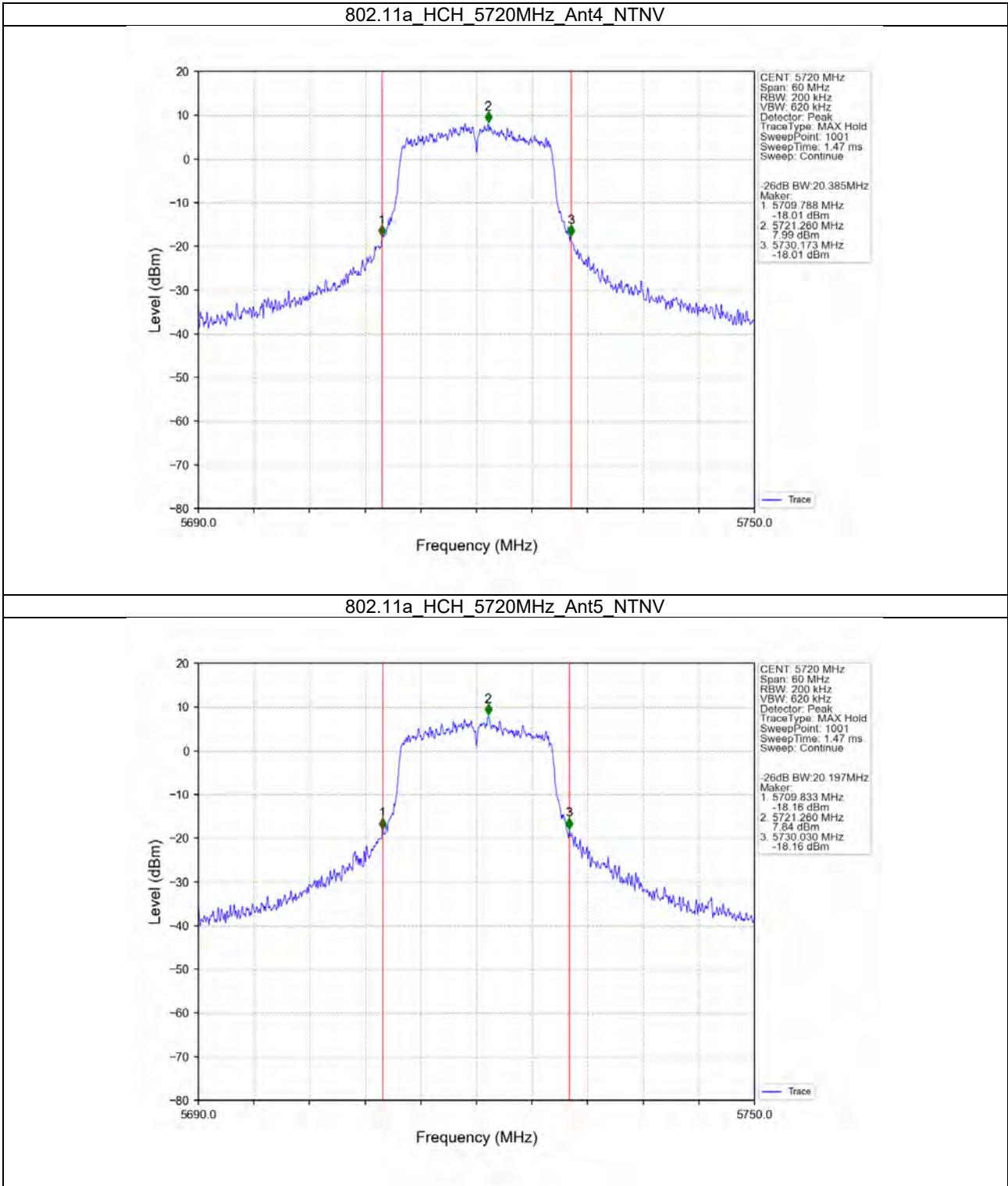
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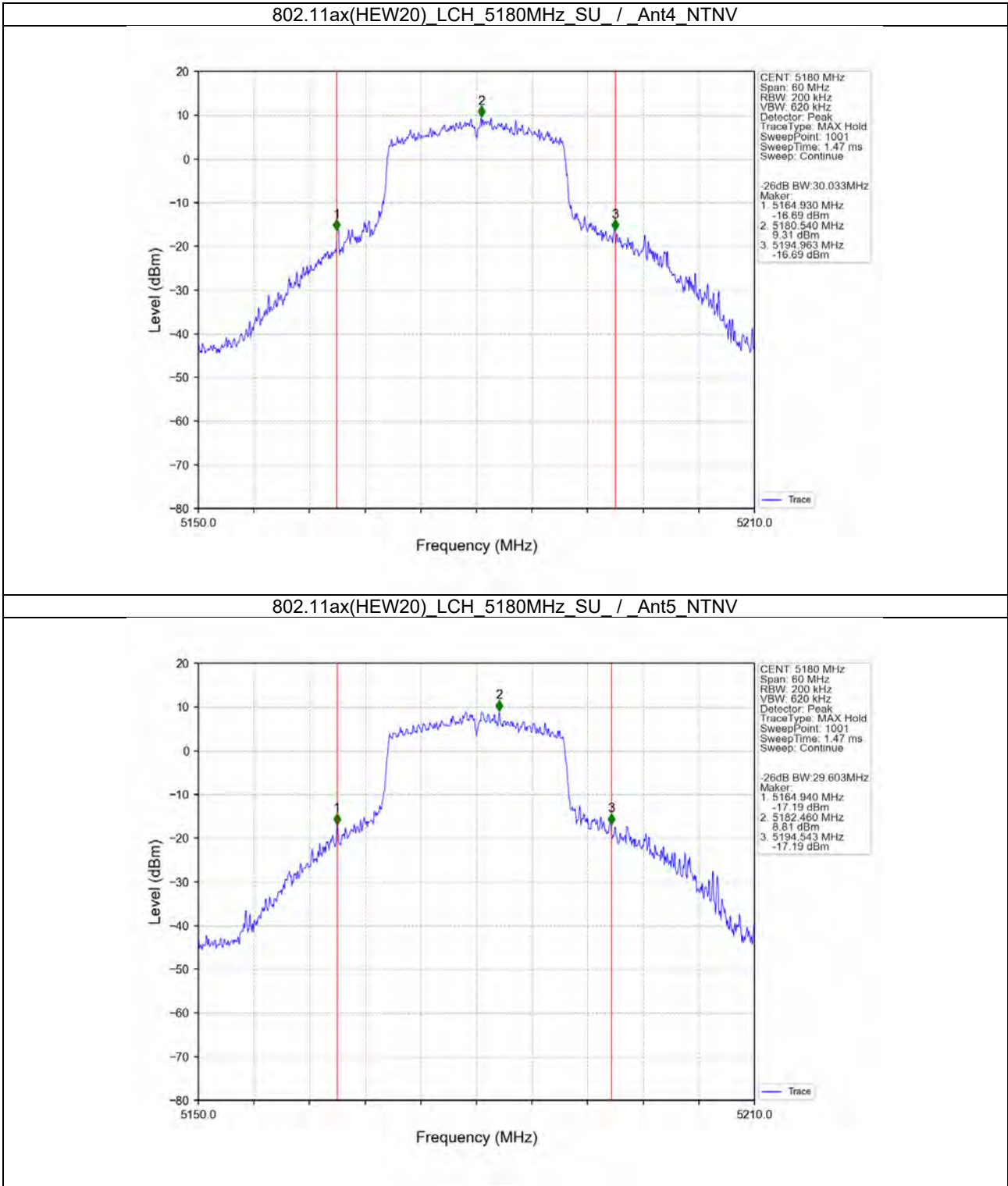
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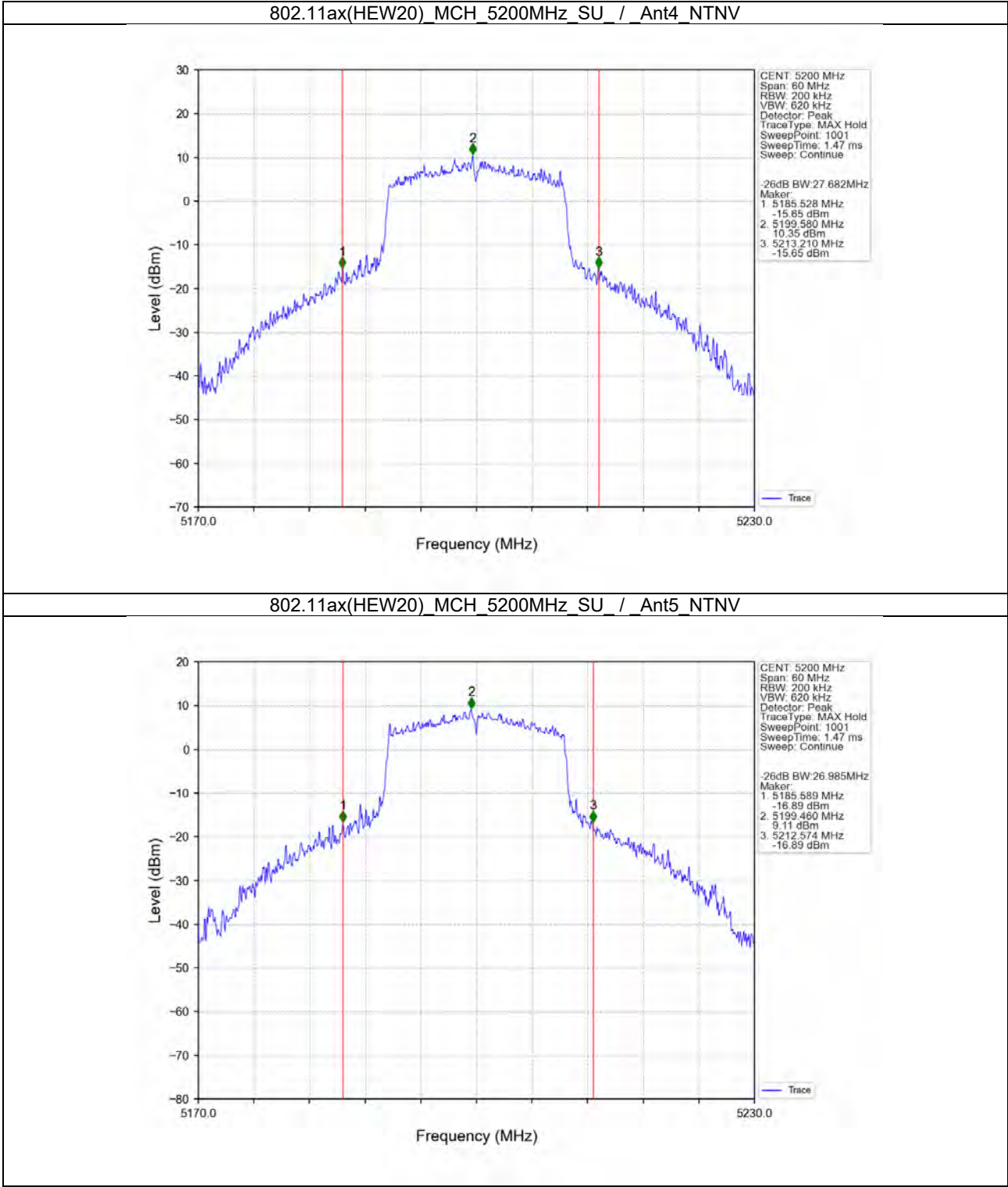
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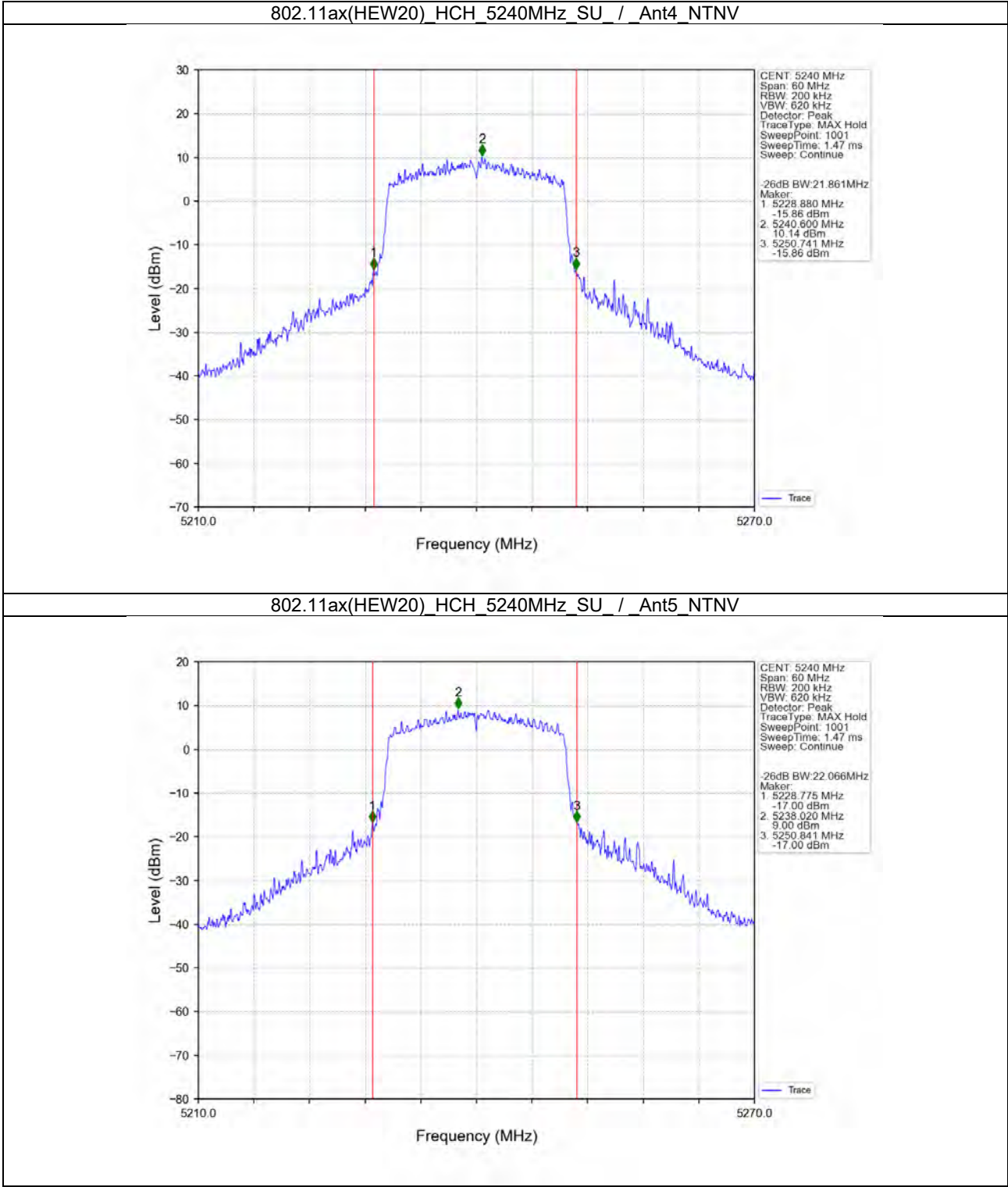
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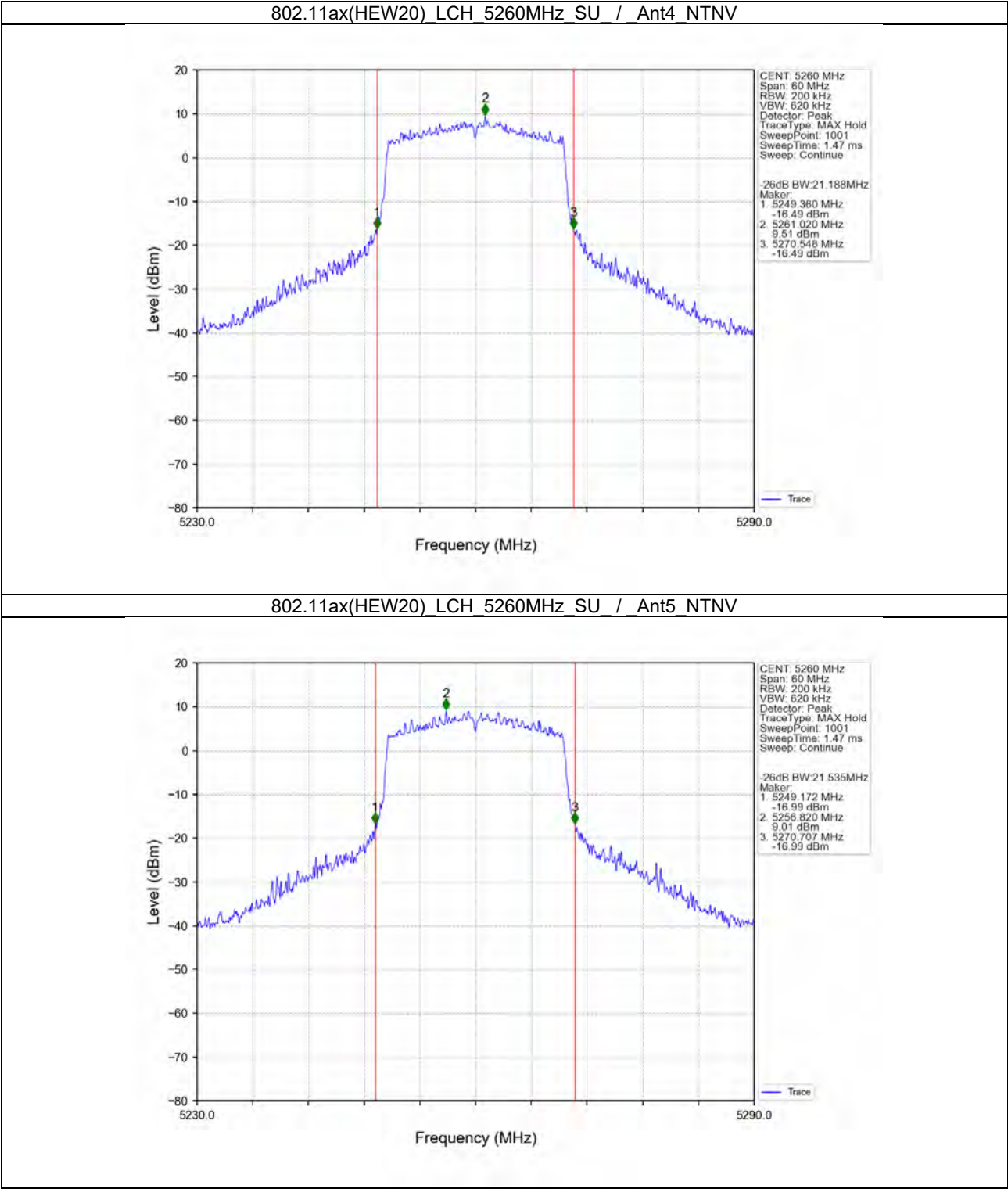
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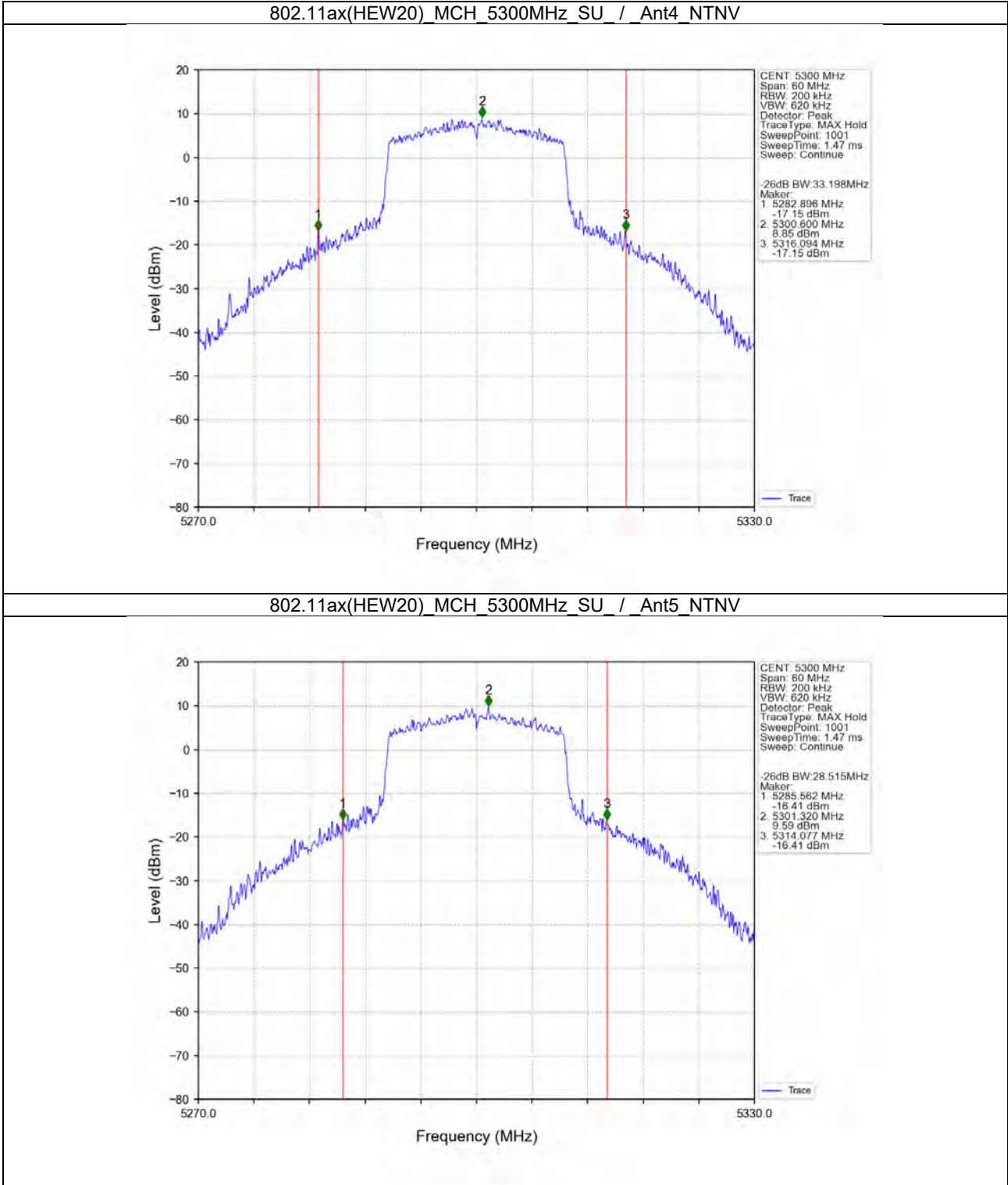
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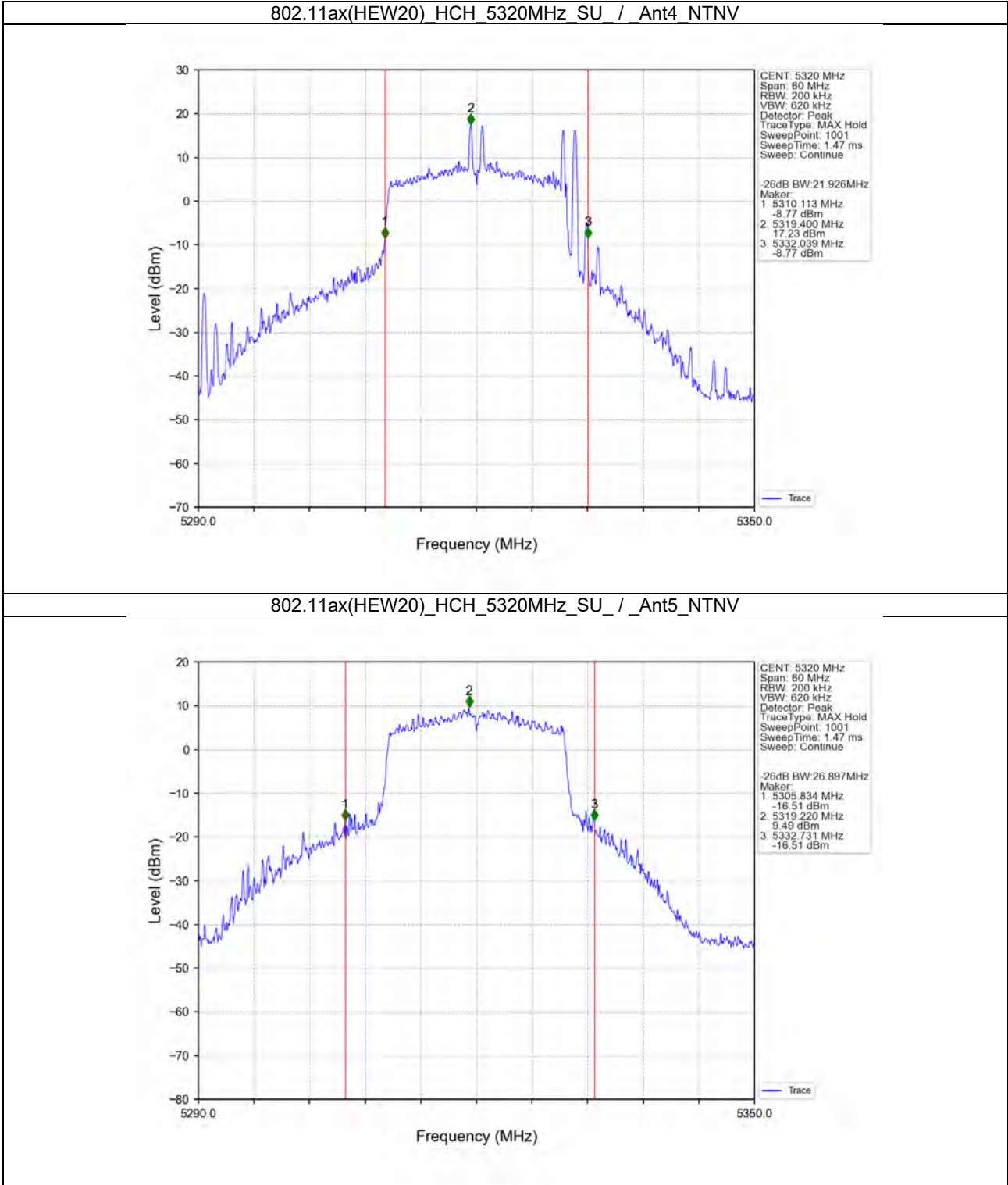
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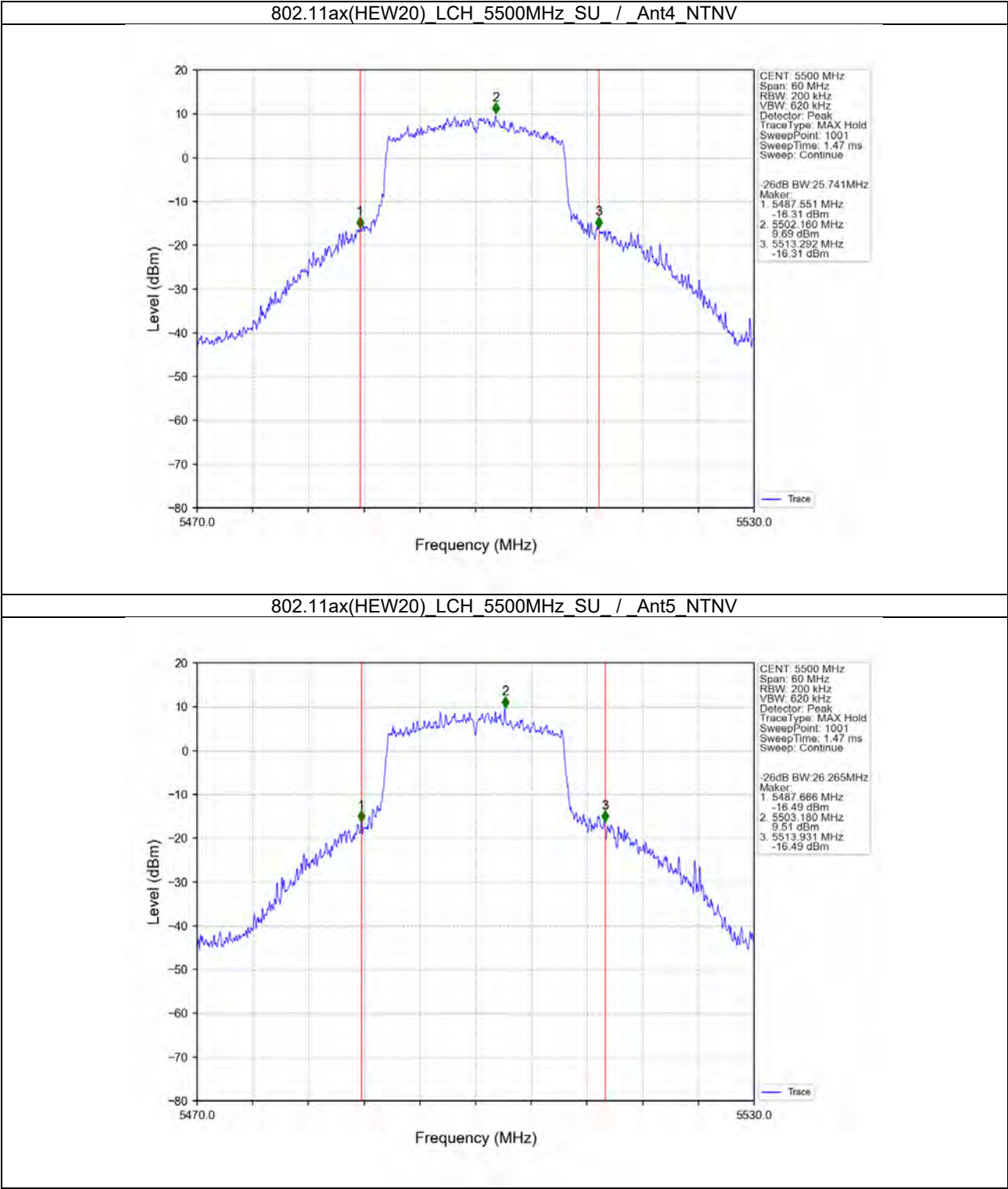
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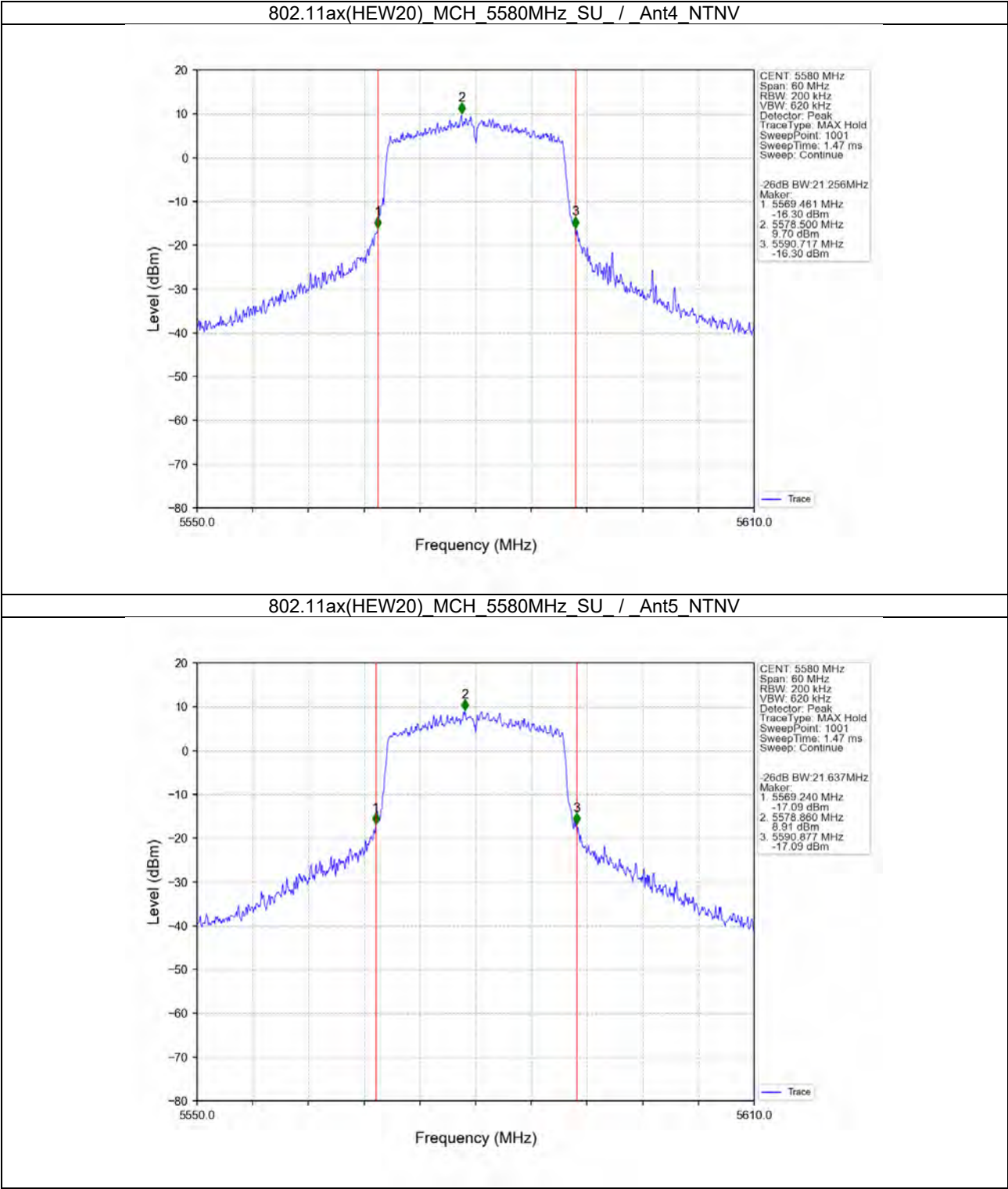
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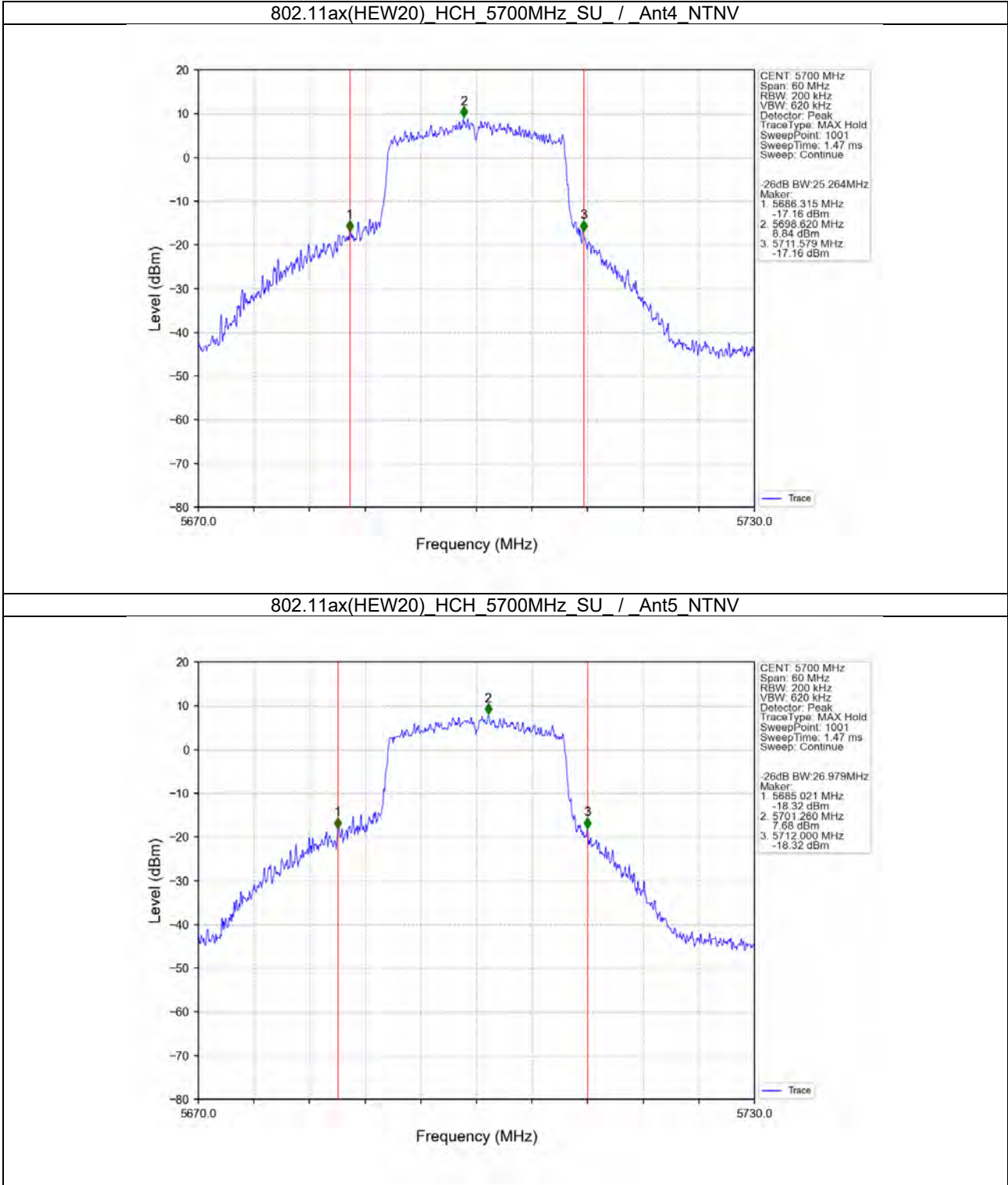
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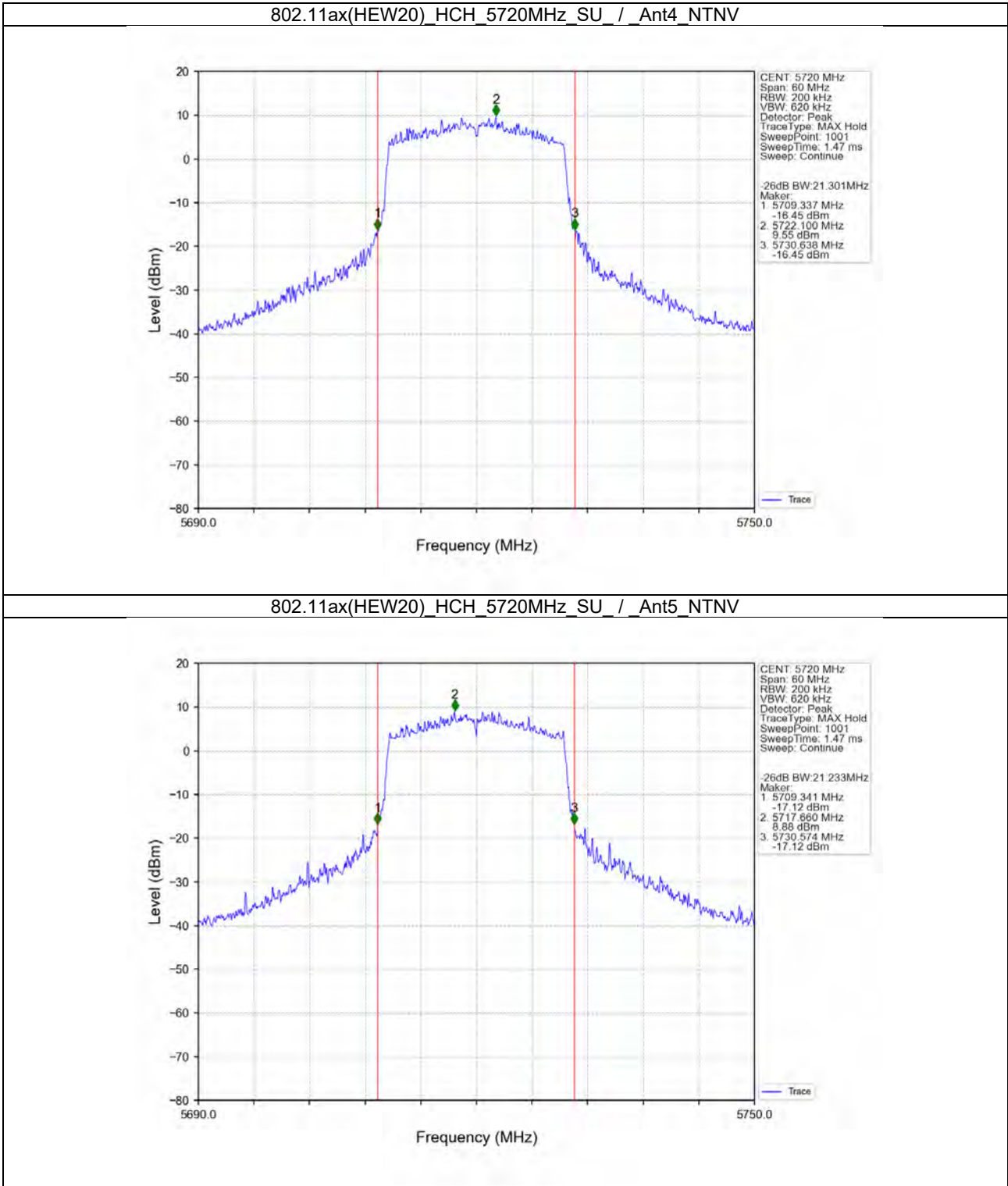
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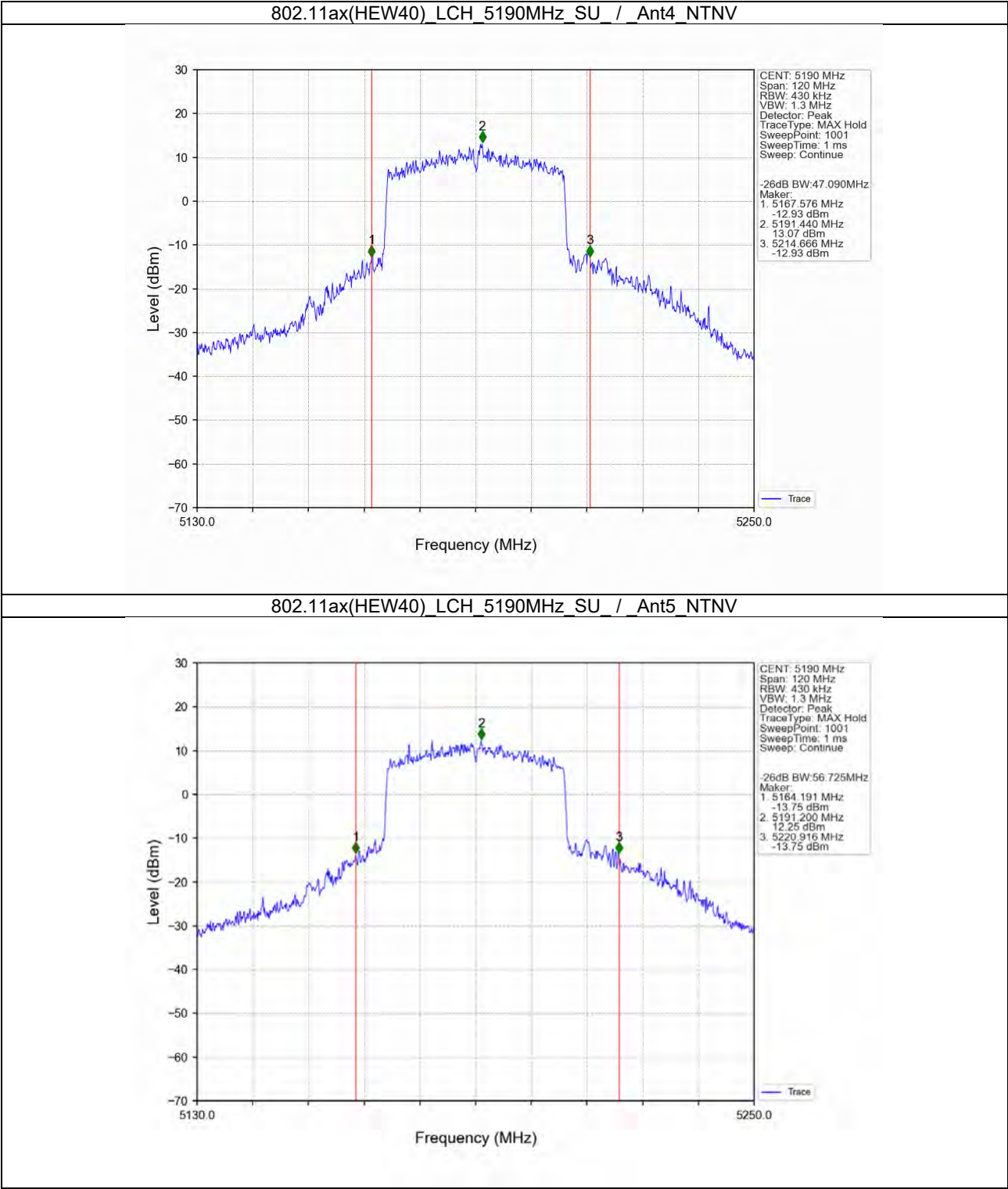
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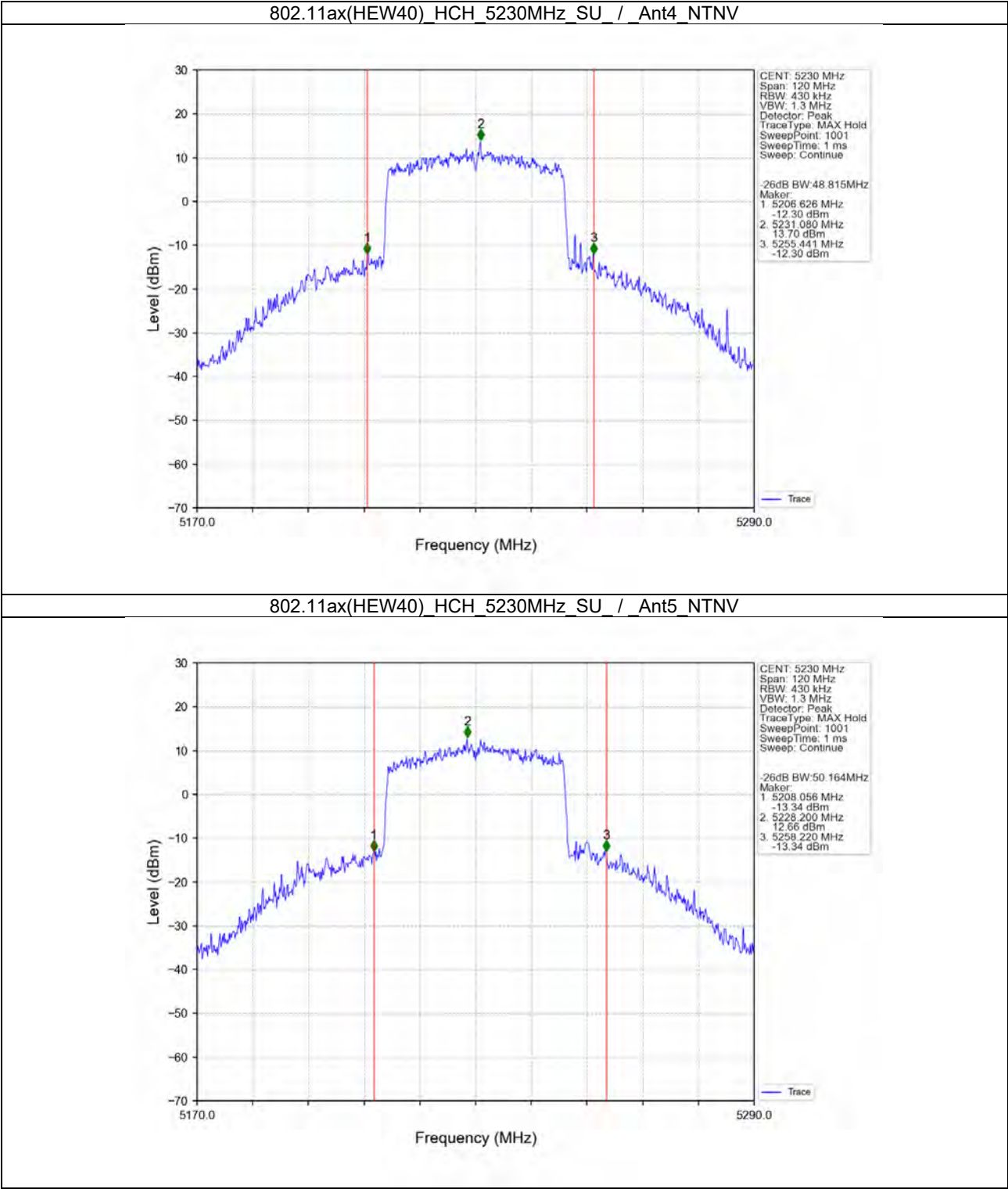
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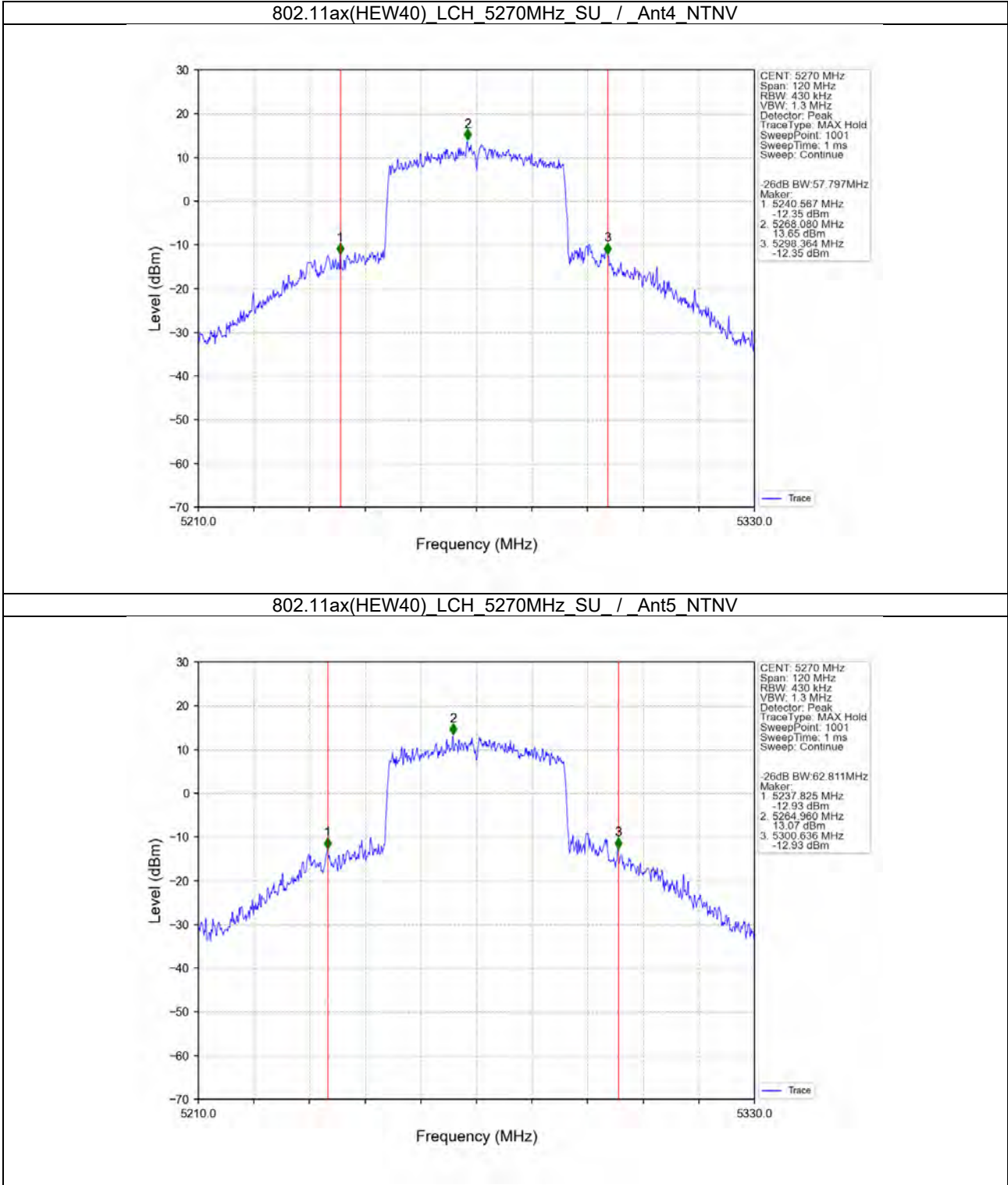
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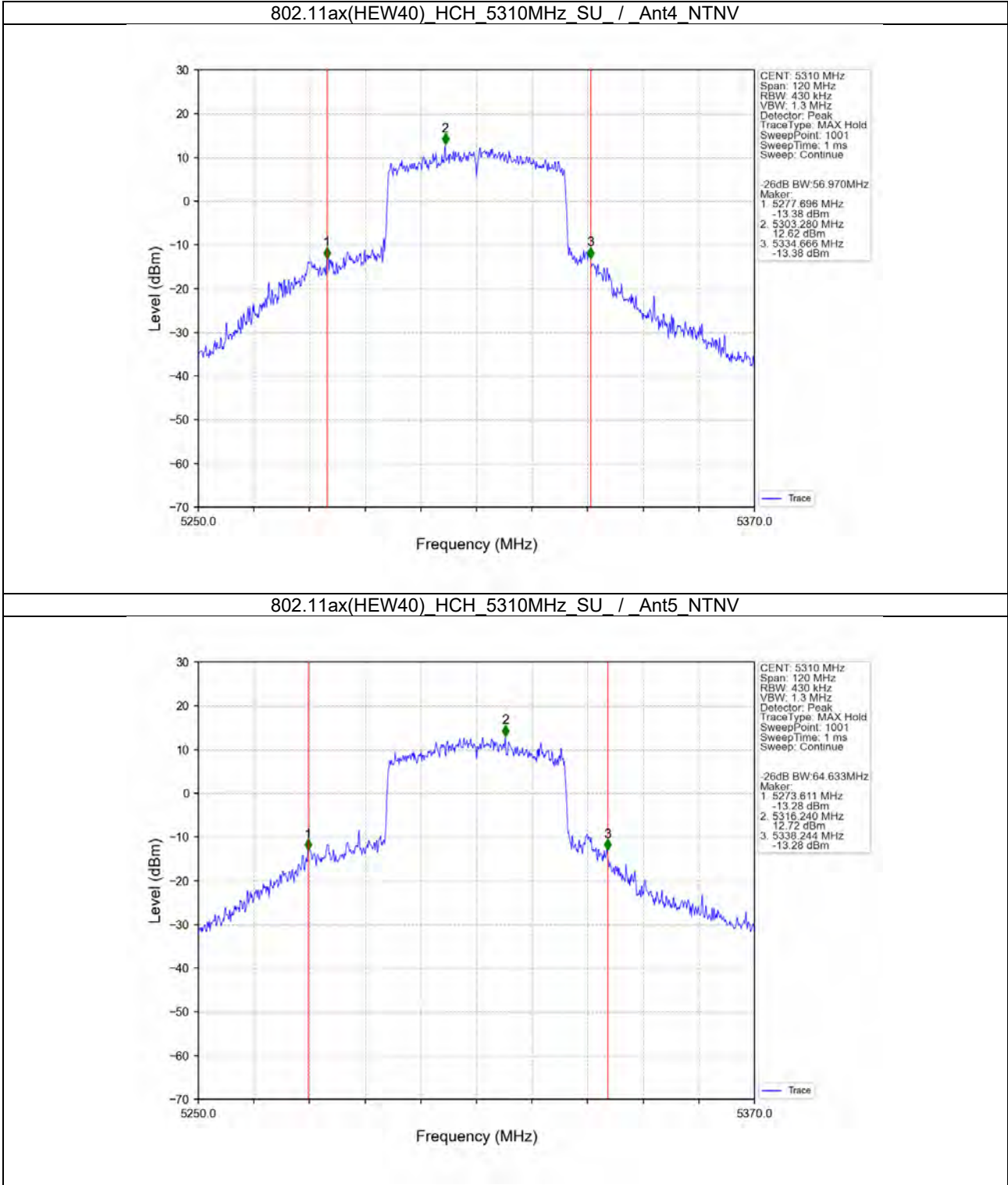
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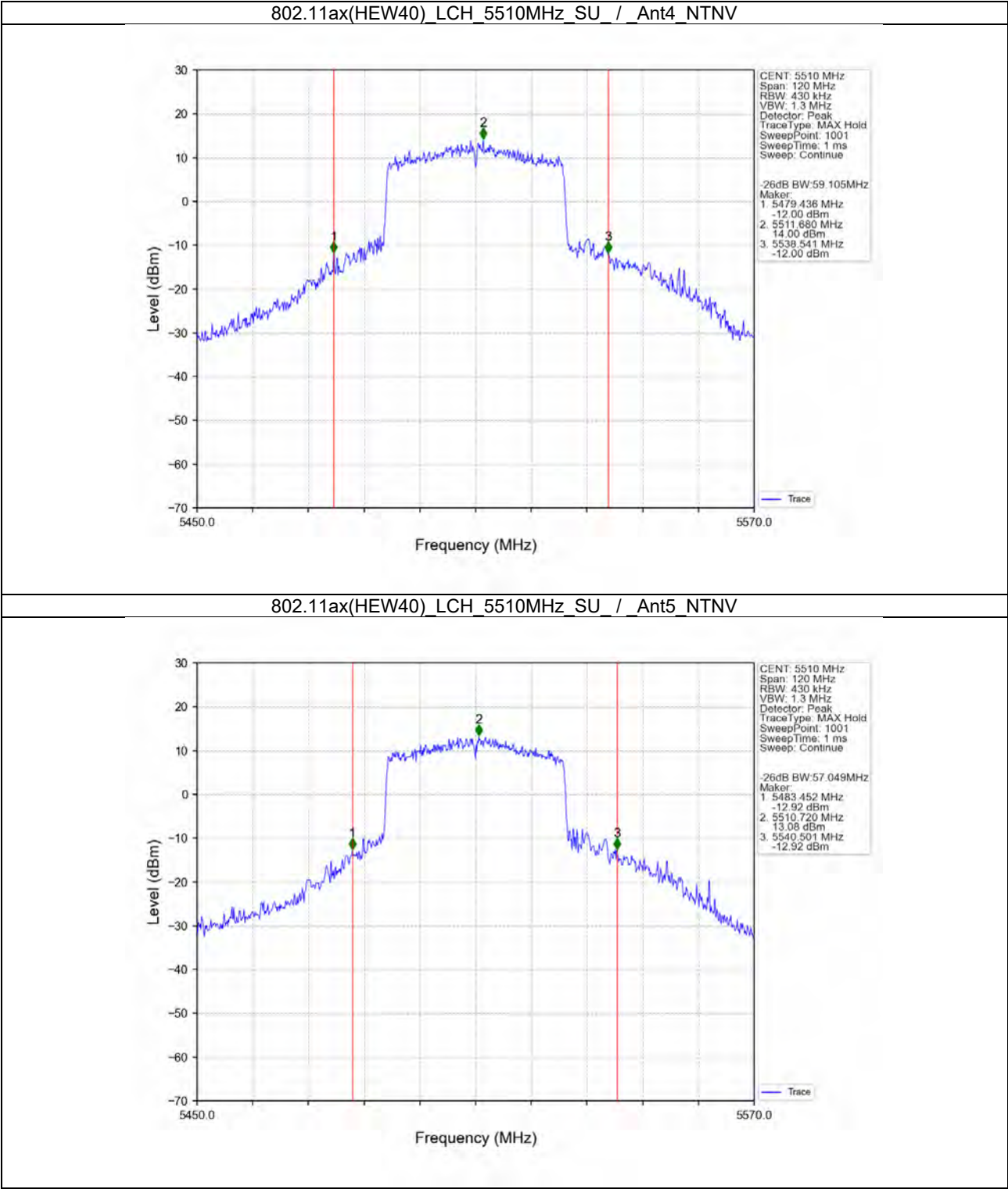
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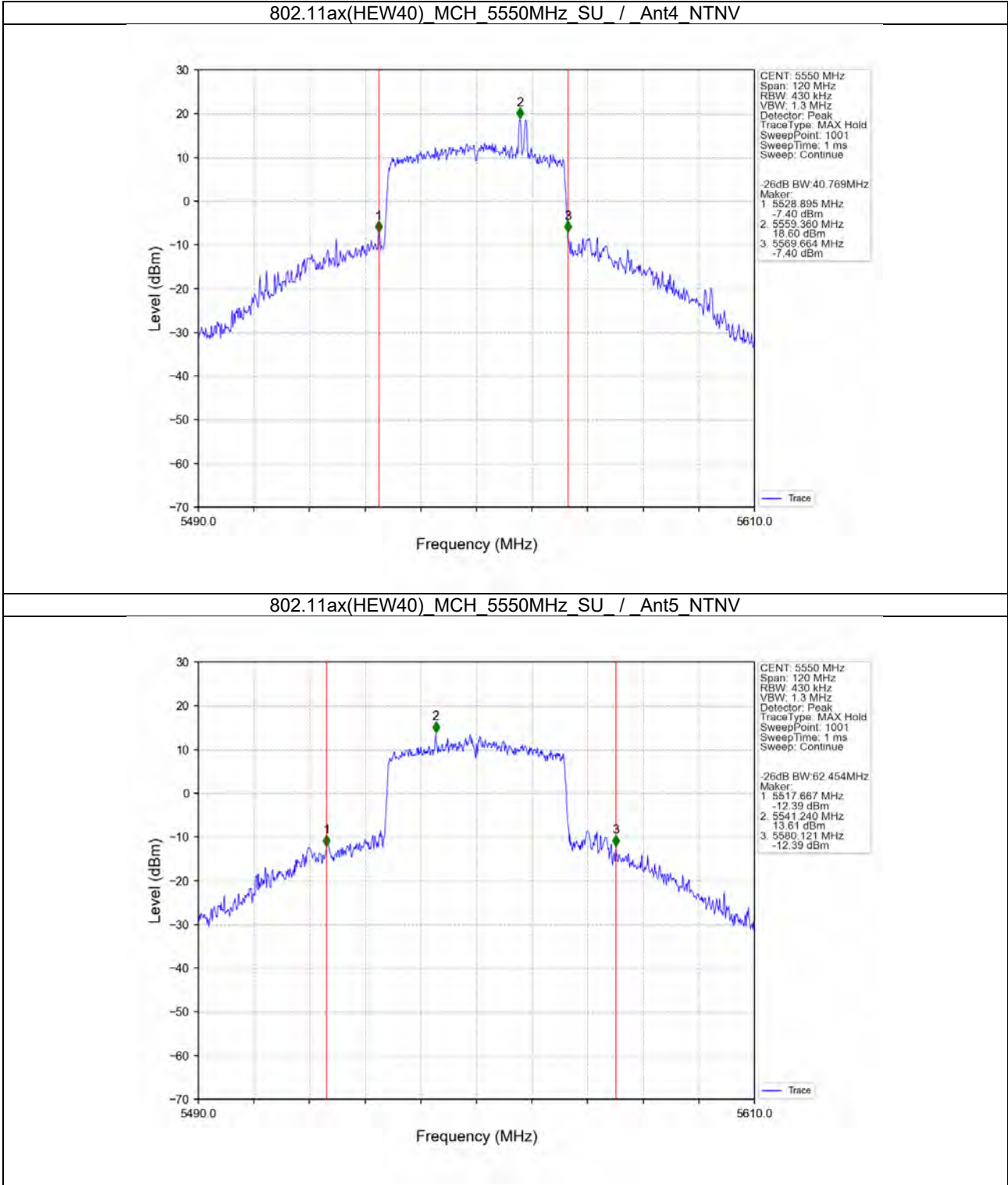
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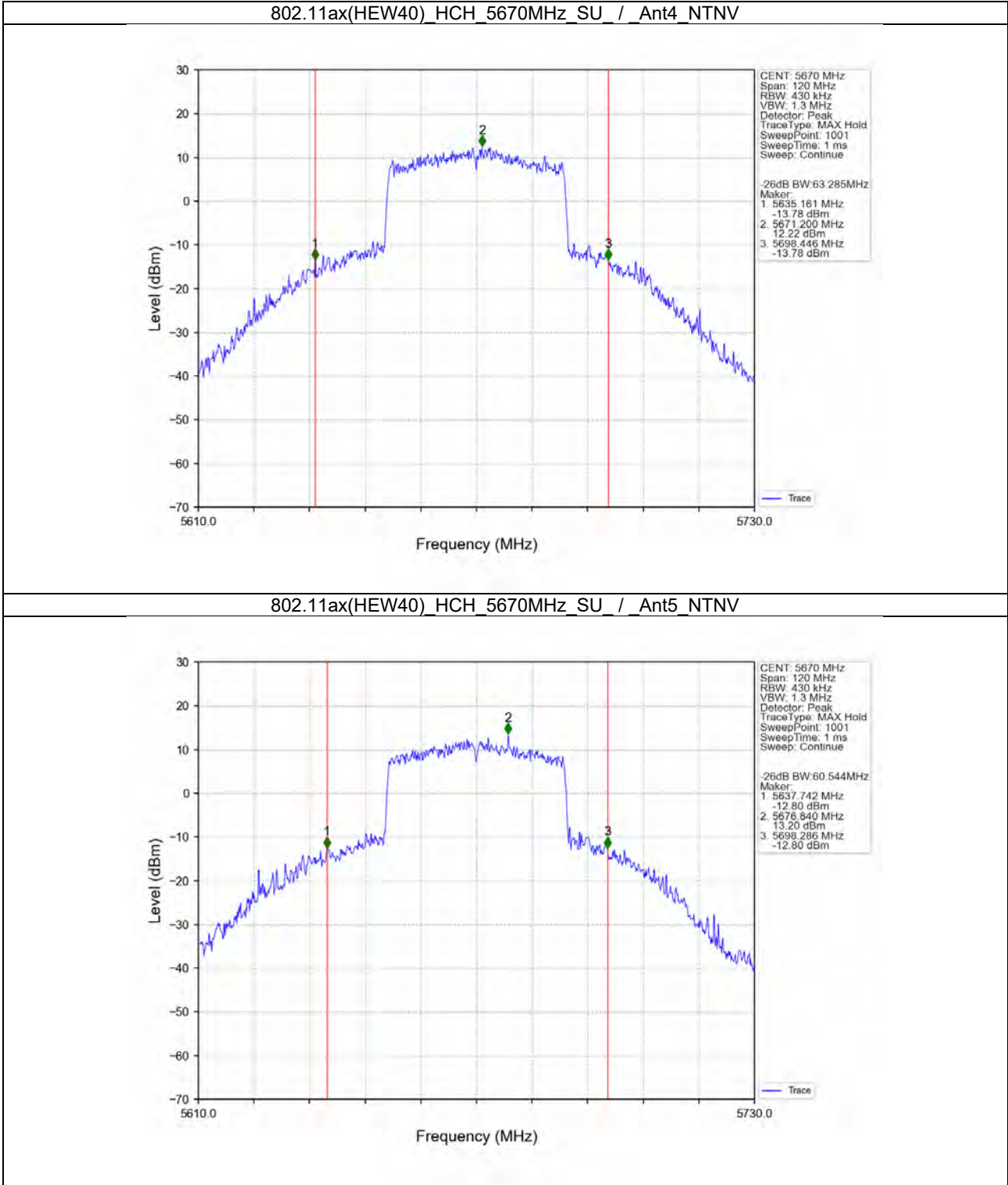
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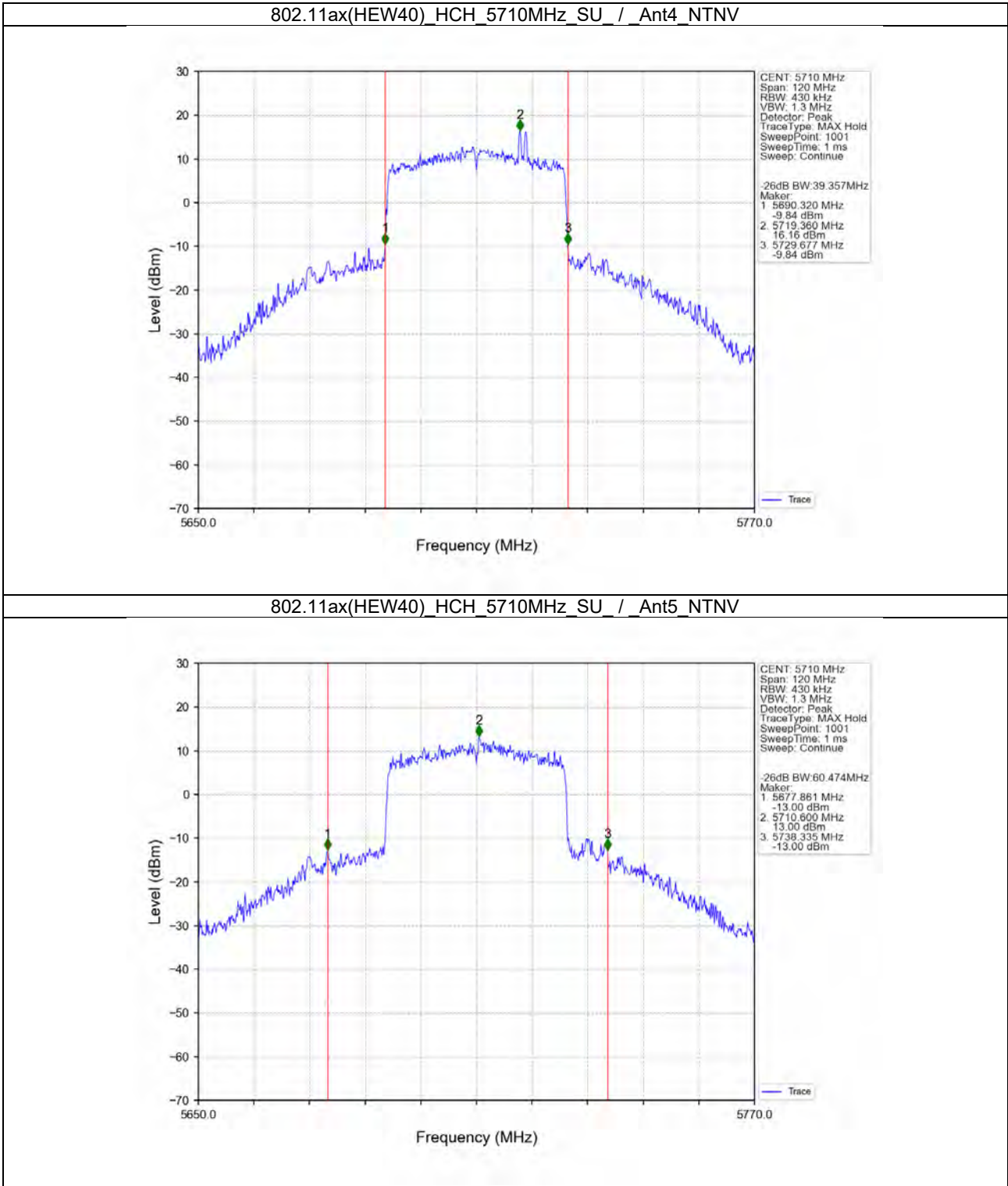
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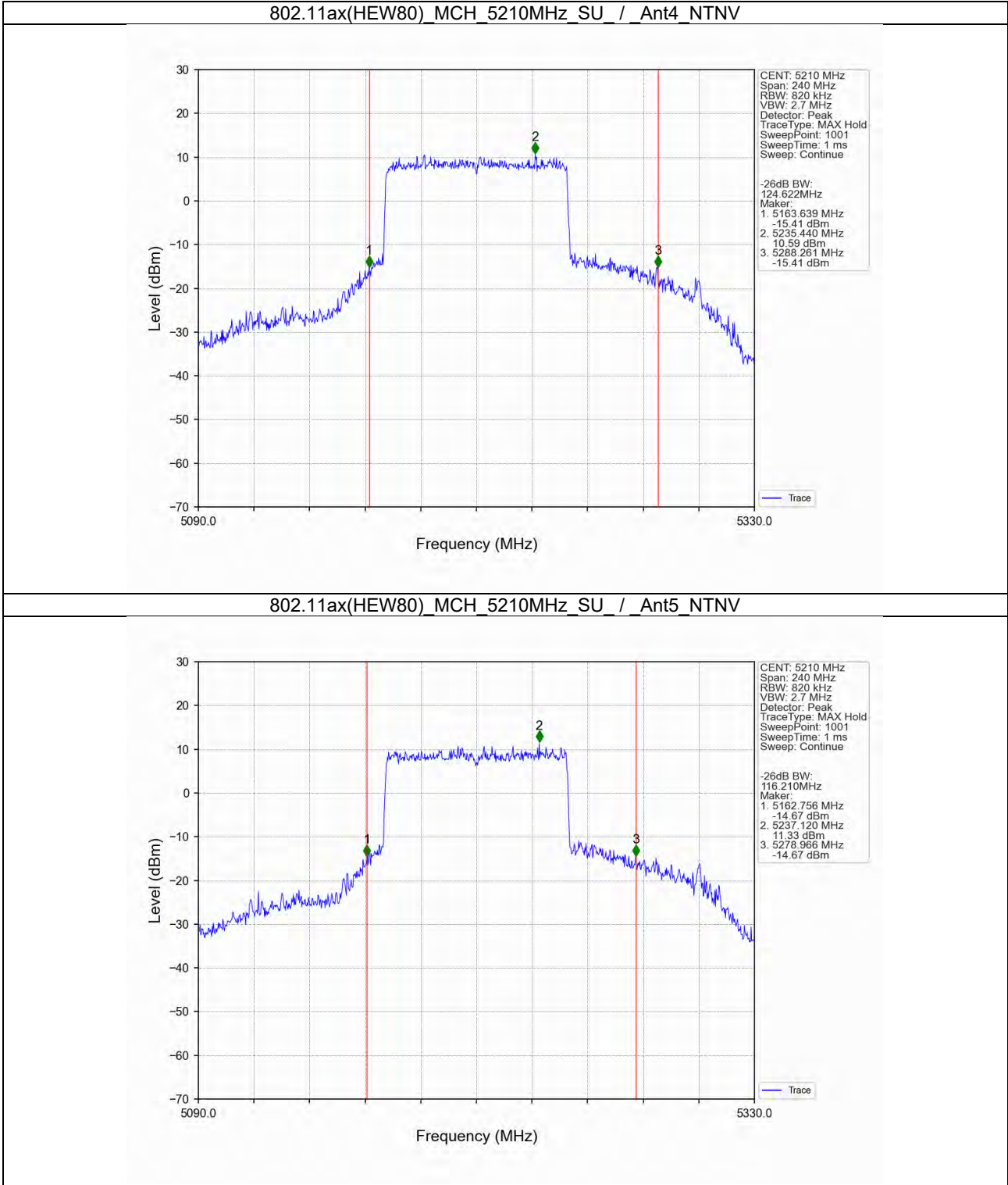
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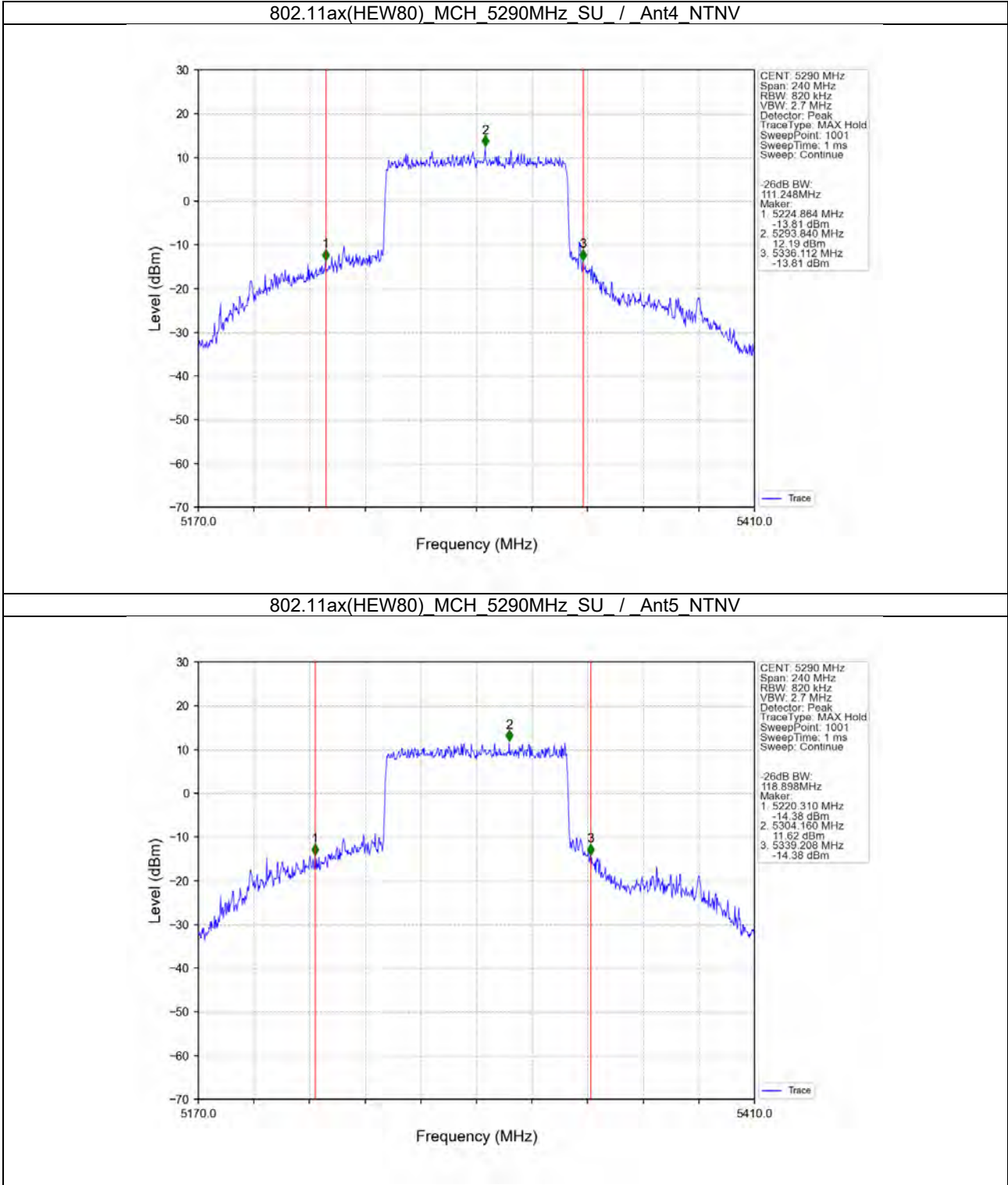
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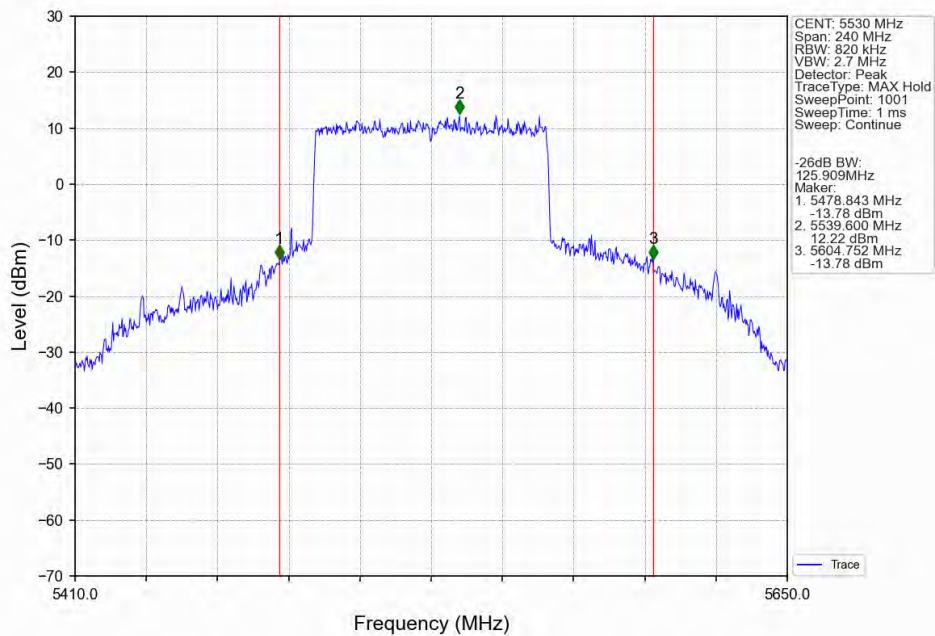




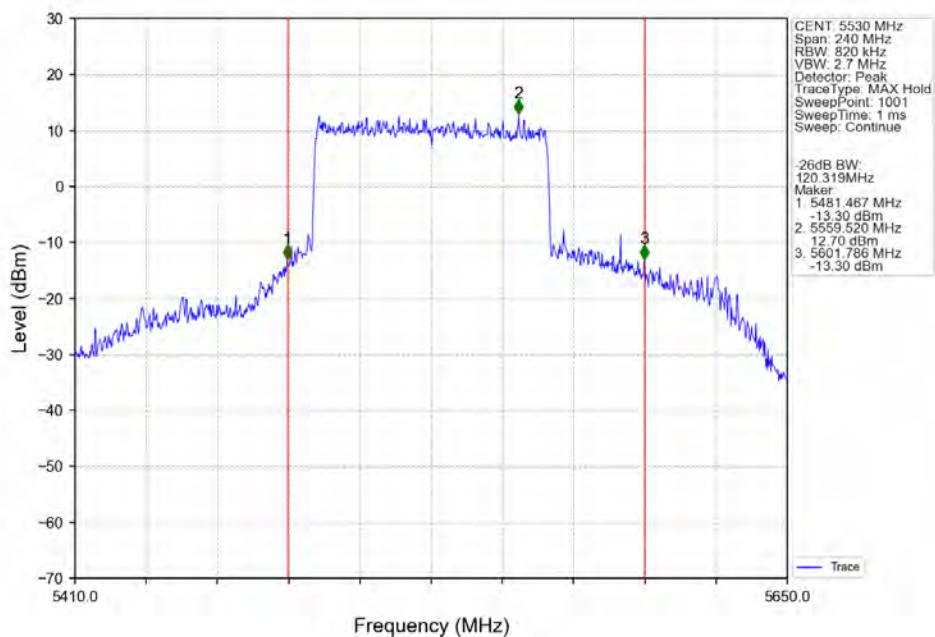
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802.11ax(HEW80)\_LCH\_5530MHz\_SU\_ / Ant4\_NTNV



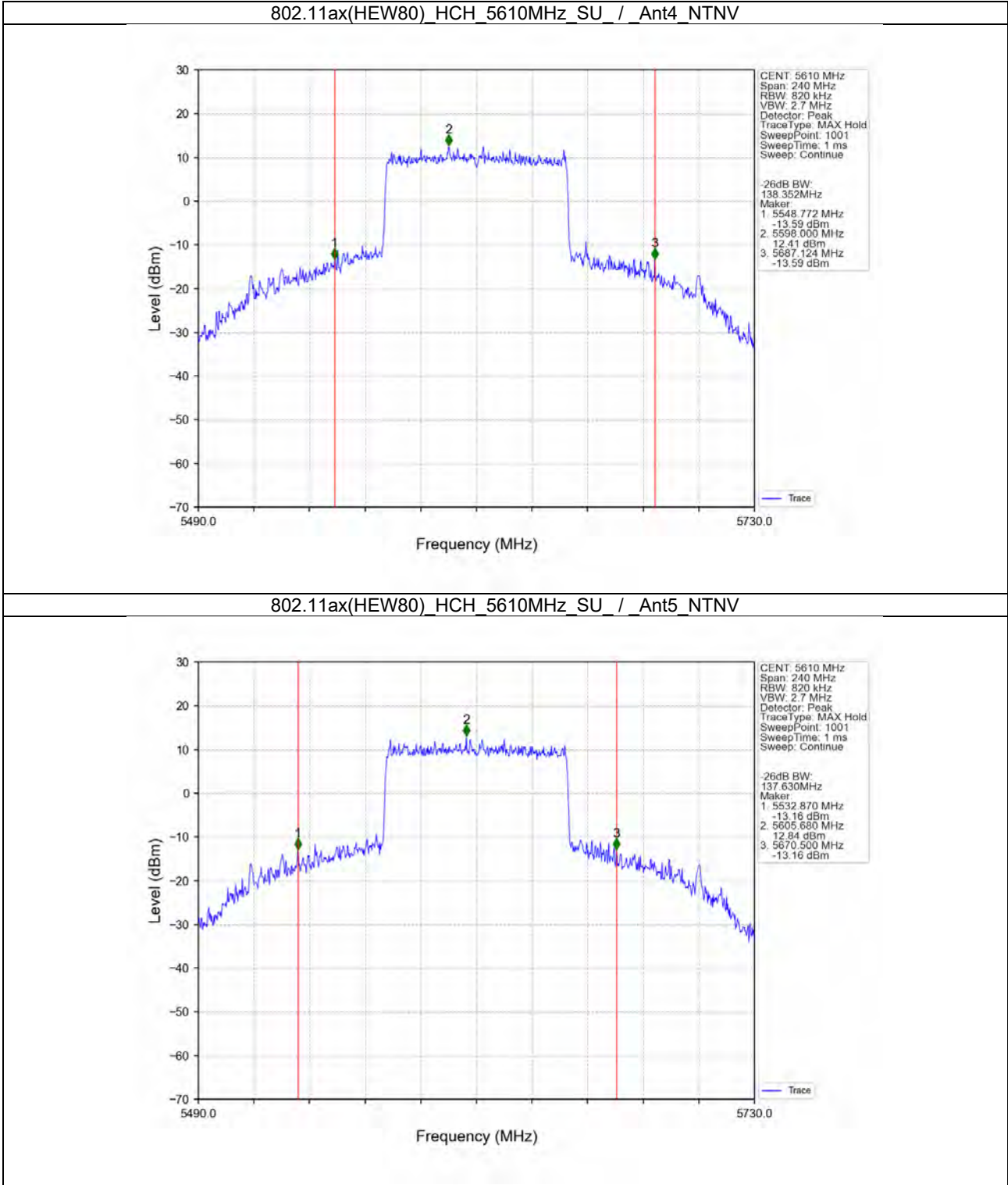
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