



# RF TEST REPORT

Product Name: AC1200 Wireless Dual Band Network card

Model Name: WF2190 Pro, WF2190 Plus , WF2190XX

FCC ID: T58WF2190PROR

Issued For : NETIS SYSTEMS CO., LTD

Floor 8, Building B, TongFang Information Harbor, No.11  
Langshan Road, Nanshan District, Shenzhen, China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Chen Hsong Industrial Park,  
No.177 Renmin West Road, Jinsha Community, Kengzi  
Street, Pingshan New District, Shenzhen, China

Report Number: LGT22H037RF06

Sample Received Date: Aug. 30, 2022

Date of Tested: Aug. 30, 2022 ~ Sep. 25, 2022

Date of Issue: Sep. 25, 2022

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## TEST REPORT CERTIFICATION

**Applicant** NETIS SYSTEMS CO., LTD  
**Address** Floor,8, Building B, TongFang Information Harbor, No.11  
Langshan Road, Nanshan District, Shenzhen, China  
**Manufacturer** NETIS SYSTEMS CO., LTD  
**Address** Floor,8, Building B, TongFang Information Harbor, No.11  
Langshan Road, Nanshan District, Shenzhen, China  
**Product Name** AC1200 Wireless Dual Band Network card  
**Trade Mark** N/A  
**Model Name** WF2190 Pro, WF2190 Plus , WF2190XX  
**Sample Status:** Normal

| APPLICABLE STANDARDS                           |              |
|------------------------------------------------|--------------|
| STANDARD                                       | TEST RESULTS |
| FCC Part 15.247, Subpart C<br>ANSI C63.10-2013 | PASS         |

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Technical Director





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### **Revision History**

| Rev. | Issue Date         | Contents      |
|------|--------------------|---------------|
| 00   | September 21, 2022 | Initial Issue |
|      |                    |               |



## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

§ 15.407, KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

| FCC Part 15.407         |                                                        |         |
|-------------------------|--------------------------------------------------------|---------|
| FCC standard            | Test Item                                              | Results |
| 15.207                  | AC Conducted Emission                                  | PASS    |
| 15.407 (a) /15.407 (e)  | 26dB/6dB &99% Bandwidth                                | PASS    |
| 15.407(a)               | Maximum Conducted Output Power                         | PASS    |
| 15.407(b)/15.205/15.209 | Radiated Emission And (bandedge Emissions) Measurement | PASS    |
| 15.407(a)               | Power Spectral Density                                 | PASS    |
| 15.407(c)               | Automatically Discontinue Transmission                 | PASS    |
| 15.203/15.204           | Antenna Requirement                                    | PASS    |

### NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.



## 1.1 TEST FACTORY

|                           |                                                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company Name:             | Shenzhen LGT Test Service Co., Ltd.                                                                                                                         |
| Address:                  | Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China |
| Accreditation Certificate | A2LA Certificate No.: 6727.01                                                                                                                               |
|                           | FCC Registration No.: 746540                                                                                                                                |
|                           | CAB ID: CN0136                                                                                                                                              |

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95 %**.

| No. | Item                                  | Uncertainty          |
|-----|---------------------------------------|----------------------|
| 1   | RF Output Power, Conducted            | $\pm 0.71\text{dB}$  |
| 2   | Power Spectral Density, Conducted     | $\pm 1.57\text{ dB}$ |
| 3   | Unwanted Emission, Conducted          | $\pm 0.63\text{dB}$  |
| 4   | Conducted emission                    | $\pm 2.80\text{dB}$  |
| 5   | All Emissions, Radiated (0.009-30MHz) | $\pm 2.16\text{dB}$  |
| 6   | All Emissions, Radiated (30MHz-1GHz)  | $\pm 4.40\text{dB}$  |
| 7   | All Emissions, Radiated (1GHz-18GHz)  | $\pm 5.49\text{dB}$  |



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF THE EUT

|                         |                                                                                                                   |                                                                                                                                                            |
|-------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name            | AC1200 Wireless Dual Band Network card                                                                            |                                                                                                                                                            |
| Trade Mark              | N/A                                                                                                               |                                                                                                                                                            |
| Model Name              | WF2190 Pro                                                                                                        |                                                                                                                                                            |
| Series Model            | WF2190 Plus, WF2190XX                                                                                             |                                                                                                                                                            |
| Model Difference        | This device hardware and Function is same, Only the sales market (area) is different, So model name is different. |                                                                                                                                                            |
| Product Description     | The EUT is a AC1200 Wireless Dual Band Network card                                                               |                                                                                                                                                            |
|                         | Operation Frequency:                                                                                              | IEEE 802.11a/ n(HT20)/ac(VHT20):<br>5.180GHz-5.240GHz<br>IEEE 802.11n(HT40)/ac(VHT40):<br>5.190GHz-5.230GHz<br>IEEE 802.11ac(VHT80): 5.210GHz              |
|                         |                                                                                                                   | IEEE 802.11a/n(HT20)/ac(VHT20):<br>5.260GHz-5.320GHz<br>IEEE 802.11 n(HT40)/ac(VHT40):<br>5.270GHz-5.310GHz<br>IEEE 802.11ac(VHT80): 5.290GHz              |
|                         |                                                                                                                   | IEEE 802.11a/ n(HT20)/ac(VHT20):<br>5.500GHz-5.700GHz<br>IEEE 802.11 n(HT40)/ac(VHT40):<br>5.510GHz-5.670GHz<br>IEEE 802.11ac(VHT80):<br>5.530GHz-5.610GHz |
|                         |                                                                                                                   | IEEE 802.11a/n(HT20)/ac(VHT20):<br>5.745GHz-5.825GHz<br>IEEE 802.11a/ n(HT40)/ac(VHT40):<br>5.755GHz-5.795GHz<br>IEEE 802.11ac(VHT80): 5.775GHz            |
|                         | Modulation Type:                                                                                                  | 802.11a(OFDM):<br>BPSK,QPSK,16-QAM,64-QAM<br>802.11n(OFDM):<br>BPSK,QPSK,16-QAM,64-QAM<br>802.11ac(OFDM):<br>BPSK,QPSK,16-QAM,64-QAM,256-QAM               |
|                         | Antenna Designation:                                                                                              | Please refer to the Note 3.                                                                                                                                |
|                         | More details of EUT technical specification, please refer to the User Manual.                                     |                                                                                                                                                            |
| Test Channel            | Please refer to the Note 2.                                                                                       |                                                                                                                                                            |
| Rating                  | USB DC 5V                                                                                                         |                                                                                                                                                            |
| Adapter                 | N/A                                                                                                               |                                                                                                                                                            |
| Battery                 | N/A                                                                                                               |                                                                                                                                                            |
| Hardware version number | N/A                                                                                                               |                                                                                                                                                            |
| Software version number | N/A                                                                                                               |                                                                                                                                                            |
| Connecting I/O Port(s)  | Please refer to the Note 1.                                                                                       |                                                                                                                                                            |

#### Note

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.

|    |                                |           |                   |           |
|----|--------------------------------|-----------|-------------------|-----------|
| 2. | Operation Frequency of channel |           |                   |           |
|    | 5.180GHz-5.240GHz              |           | 5.500GHz-5.720GHz |           |
|    | Channel                        | Frequency | Channel           | Frequency |
|    | 36                             | 5180      | 100               | 5500      |
|    | 38                             | 5190      | 102               | 5510      |
|    | 40                             | 5200      | 104               | 5520      |
|    | 42                             | 5210      | 106               | 5530      |
|    | 44                             | 5220      | 108               | 5540      |
|    | 46                             | 5230      | 110               | 5550      |
|    | 48                             | 5240      | 112               | 5560      |
|    |                                |           | 116               | 5580      |
|    | 5.260GHz-5.320GHz              |           | 118               | 5590      |
|    | Channel                        | Frequency | 120               | 5600      |
|    | 52                             | 5260      | 122               | 5610      |
|    | 54                             | 5270      | 124               | 5620      |
|    | 56                             | 5280      | 126               | 5630      |
|    | 58                             | 5290      | 128               | 5640      |
|    | 60                             | 5300      | 132               | 5660      |
|    | 62                             | 5310      | 134               | 5670      |
|    | 64                             | 5320      | 136               | 5680      |
|    |                                |           | 140               | 5700      |
|    | 5.745GHz-5.825GHz              |           |                   |           |
|    | Channel                        | Frequency |                   |           |
|    | 149                            | 5745      |                   |           |
|    | 151                            | 5755      |                   |           |
|    | 153                            | 5765      |                   |           |
|    | 157                            | 5785      |                   |           |
|    | 159                            | 5795      |                   |           |
|    | 161                            | 5805      |                   |           |
|    | 165                            | 5825      |                   |           |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

### Carrier Frequency Channel

5GHz:

|                               |            |         |            |
|-------------------------------|------------|---------|------------|
| For 802.11a/n(HT20)/ac(VHT20) |            |         |            |
| Channel                       | Freq.(MHz) | Channel | Freq.(MHz) |
| 36                            | 5180       | 52      | 5260       |
| 40                            | 5200       | 60      | 5300       |
| 48                            | 5240       | 64      | 5320       |

| For 802.11a/n(HT20)/ac(VHT20) |            |         |            |
|-------------------------------|------------|---------|------------|
| Channel                       | Freq.(MHz) | Channel | Freq.(MHz) |
| 100                           | 5500       | 149     | 5745       |
| 116                           | 5580       | 157     | 5785       |
| 140                           | 5700       | 165     | 5825       |



| For 802.11 n(HT40)/ac(VHT40) |            |         |            |
|------------------------------|------------|---------|------------|
| Channel                      | Freq.(MHz) | Channel | Freq.(MHz) |
| 38                           | 5190       | 54      | 5270       |
| 46                           | 5230       | 62      | 5310       |

| For 802.11 n(HT40)/ac(VHT40) |            |         |            |
|------------------------------|------------|---------|------------|
| Channel                      | Freq.(MHz) | Channel | Freq.(MHz) |
| 102                          | 5510       | 151     | 5755       |
| 110                          | 5550       | 159     | 5795       |
| 134                          | 5670       |         |            |

| For 802.11ac (VHT80) |            |         |            |
|----------------------|------------|---------|------------|
| Channel              | Freq.(MHz) | Channel | Freq.(MHz) |
| 42                   | 5210       | 58      | 5290       |
|                      |            |         |            |

| For 802.11ac (VHT80) |            |         |            |
|----------------------|------------|---------|------------|
| Channel              | Freq.(MHz) | Channel | Freq.(MHz) |
| 106                  | 5530       | 155     | 5775       |
| 122                  | 5610       |         |            |

### 3. KDB 662911 D01 Multiple Transmitter Output v02r01

#### 2) Directional Gain Calculations for In-Band Measurements

a) Basic methodology with NANT transmit antennas, each with the same directional gain  $G_{ANT}$  dBi, being driven by NANT transmitter outputs of equal power. Directional gain is to be computed as follows:

(i) If any transmit signals are correlated with each other,

Directional gain =  $G_{ANT} + 10 \log(N_{ANT})$  dBi

(ii) If all transmit signals are completely uncorrelated with each other,

Directional gain =  $G_{ANT}$

| Ant. | Brand | Model Name | Antenna Type     | Connector | Gain (dBi)                         | Note         |
|------|-------|------------|------------------|-----------|------------------------------------|--------------|
| 1    | N/A   | WF2190 Pro | Integral Antenna | N/A       | ANT 1: 5<br>ANT 2: 5<br>MIMO: 8.01 | WLAN Antenna |
| 2    | N/A   | WF2190 Pro | Integral Antenna | N/A       |                                    |              |

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.



## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Worst Mode | Description                             | Data Rate |
|------------|-----------------------------------------|-----------|
| Mode 1     | TX IEEE 802.11a HT20 CH36&CH40&CH48     | 6 Mbps    |
| Mode 2     | TX IEEE 802.11a HT20 CH52&CH60&CH64     | 6 Mbps    |
| Mode 3     | TX IEEE 802.11a HT20 CH100&CH116&CH140  | 6 Mbps    |
| Mode 4     | TX IEEE 802.11a HT20 CH149&CH157&CH165  | 6 Mbps    |
| Mode 5     | TX IEEE 802.11n HT20 CH36&CH40&CH48     | MCS 0     |
| Mode 6     | TX IEEE 802.11ac HT20 CH36&CH40&CH48    | NSS1 MCS0 |
| Mode 7     | TX IEEE 802.11n HT20 CH52&CH60&CH64     | MCS 0     |
| Mode 8     | TX IEEE 802.11ac HT20 CH52&CH60&CH64    | NSS1 MCS0 |
| Mode 9     | TX IEEE 802.11n HT20 CH100&CH116&CH140  | MCS 0     |
| Mode 10    | TX IEEE 802.11ac HT20 CH100&CH116&CH140 | NSS1 MCS0 |
| Mode 11    | TX IEEE 802.11n HT20 CH149&CH157&CH165  | MCS 0     |
| Mode 12    | TX IEEE 802.11ac HT20 CH149&CH157&CH165 | NSS1 MCS0 |
| Mode 13    | TX IEEE 802.11n HT40 CH38&CH46          | MCS 0     |
| Mode 14    | TX IEEE 802.11ac HT40 CH38&CH46         | NSS1 MCS0 |
| Mode 15    | TX IEEE 802.11n HT40 CH54 &CH62         | MCS 0     |
| Mode 16    | TX IEEE 802.11ac HT40 CH54 &CH62        | NSS1 MCS0 |
| Mode 17    | TX IEEE 802.11n HT40 CH102&CH110&CH134  | MCS 0     |
| Mode 18    | TX IEEE 802.11ac HT40 CH102&CH110&CH134 | NSS1 MCS0 |
| Mode 19    | TX IEEE 802.11n HT40 CH151&CH159        | MCS 0     |
| Mode 20    | TX IEEE 802.11ac HT40 CH151&CH159       | NSS1 MCS0 |
| Mode 21    | TX IEEE 802.11ac HT80 CH42              | NSS1 MCS0 |
| Mode 22    | TX IEEE 802.11ac HT80 CH58              | NSS1 MCS0 |
| Mode 23    | TX IEEE 802.11ac HT80 CH106&122         | NSS1 MCS0 |
| Mode 24    | TX IEEE 802.11ac HT80 CH155             | NSS1 MCS0 |

Note: (1) The measurements are performed at the highest, middle, lowest available channels.

(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.



## AC Conducted Emission

| Test Case             |             |
|-----------------------|-------------|
| AC Conducted Emission | Mode 25: TX |

### 2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

| RF Function | Type          | Mode Or Modulation type | ANT Gain(dBi)                      | Power Class | Software For Testing |
|-------------|---------------|-------------------------|------------------------------------|-------------|----------------------|
| WIFI 2.4G   | 5150-5250 MHz | 802.11a                 | ANT 1: 5<br>ANT 2: 5<br>MIMO: 8.01 | 14          | MT7662UQA 1.0.3.24   |
|             |               | 802.11n(HT20)           |                                    | 14          |                      |
|             |               | 802.11n(HT40)           |                                    | 14          |                      |
|             |               | 802.11ac(VHT20)         |                                    | 14          |                      |
|             |               | 802.11ac(VHT40)         |                                    | 14          |                      |
|             |               | 802.11ac(VHT80)         |                                    | 14          |                      |
| RF Function | Type          | Mode Or Modulation type | ANT Gain(dBi)                      | Power Class | Software For Testing |
| WIFI 2.4G   | 5250-5350 MHz | 802.11a                 | ANT 1: 5<br>ANT 2: 5<br>MIMO: 8.01 | 14          | MT7662UQA 1.0.3.24   |
|             |               | 802.11n(HT20)           |                                    | 14          |                      |
|             |               | 802.11n(HT40)           |                                    | 14          |                      |
|             |               | 802.11ac(VHT20)         |                                    | 14          |                      |
|             |               | 802.11ac(VHT40)         |                                    | 14          |                      |
|             |               | 802.11ac(VHT80)         |                                    | 14          |                      |
| RF Function | Type          | Mode Or Modulation type | ANT Gain(dBi)                      | Power Class | Software For Testing |
| WIFI 2.4G   | 5470-5725 MHz | 802.11a                 | ANT 1: 5<br>ANT 2: 5<br>MIMO: 8.01 | 14          | MT7662UQA 1.0.3.24   |
|             |               | 802.11n(HT20)           |                                    | 14          |                      |
|             |               | 802.11n(HT40)           |                                    | 14          |                      |
|             |               | 802.11ac(VHT20)         |                                    | 14          |                      |
|             |               | 802.11ac(VHT40)         |                                    | 14          |                      |
|             |               | 802.11ac(VHT80)         |                                    | 14          |                      |
| RF Function | Type          | Mode Or Modulation type | ANT Gain(dBi)                      | Power Class | Software For Testing |
| WIFI 2.4G   | 5725-5850 MHz | 802.11a                 | ANT 1: 5<br>ANT 2: 5<br>MIMO: 8.01 | 14          | MT7662UQA 1.0.3.24   |
|             |               | 802.11n(HT20)           |                                    | 14          |                      |
|             |               | 802.11n(HT40)           |                                    | 14          |                      |
|             |               | 802.11ac(VHT20)         |                                    | 14          |                      |
|             |               | 802.11ac(VHT40)         |                                    | 14          |                      |
|             |               | 802.11ac(VHT80)         |                                    | 14          |                      |



## 2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

### Accessories Equipment

| Description | Manufacturer | Model | S/N | Rating         |
|-------------|--------------|-------|-----|----------------|
| USB Cable   | N/A          | N/A   | N/A | 1.2m, shielded |
|             |              |       |     |                |
|             |              |       |     |                |
|             |              |       |     |                |

### Auxiliary Equipment

| Description               | Manufacturer | Model        | S/N | Rating                                                                                                     |
|---------------------------|--------------|--------------|-----|------------------------------------------------------------------------------------------------------------|
| Laptop                    | HUAWEI       | HKF-16       | N/A | N/A                                                                                                        |
| Adapter                   | HUAWEI       | HW-200450CP0 | N/A | Input:<br>100-240V~50/60Hz,<br>1.6A<br>Output: 5V/3A or<br>9V/3A or 12V/3A or<br>15V/5A or 20V/4.5A<br>MAX |
| USB-C to USB-C<br>adapter | HUAWEI       | N/A          | N/A | 1.8m, shielded                                                                                             |

Note:

(1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

### Radiation Test equipment

| Kind of Equipment                | Manufacturer               | Type No. | Company No.      | Last calibration | Calibrated until |
|----------------------------------|----------------------------|----------|------------------|------------------|------------------|
| EMI Test Receiver                | R&S                        | ESU8     | 100372           | 2022.04.12       | 2023.04.11       |
| Active loop Antenna              | R&S                        | HFH2-Z2  | POS87139818<br>1 | 2022.06.02       | 2024.06.01       |
| Spectrum Analyzer                | Kesight                    | N9010B   | MY60242508       | 2022.04.29       | 2023.04.28       |
| Bilog Antenna                    | SCHAFFNER                  | CBL6112B | 2705             | 2022.06.05       | 2024.06.04       |
| Horn Antenna                     | SCHWARZBECK                | 3115     | 10SL0060         | 2022.06.02       | 2024.06.01       |
| Pre-amplifier(0.1M-3G Hz)        | HP                         | 8447D    | 2727A05655       | 2022.04.11       | 2023.04.10       |
| Pre-amplifier(1-26.5G)           | Agilent                    | 8449B    | 3008A4722        | 2022.04.13       | 2023.04.12       |
| RE Cable (9K-1G)                 | N.A                        | R01      | N.A              | 2022.05.05       | 2023.05.04       |
| RE Cable (1-26G)                 | N.A                        | R02      | N.A              | 2022.05.05       | 2023.05.04       |
| Wireless Communications Test Set | R&S                        | CMW 500  | 137737           | 2022.04.29       | 2023.04.28       |
| Temperature & Humidity           | KTJ                        | TA218B   | N.A              | 2022.05.05       | 2023.05.04       |
| Testing Software                 | EZ-EMC(Ver.STSLAB 03A1 RE) |          |                  |                  |                  |

### Conduction Test equipment

| Kind of Equipment      | Manufacturer              | Type No.  | Company No. | Last calibration | Calibrated until |
|------------------------|---------------------------|-----------|-------------|------------------|------------------|
| EMI Test Receiver      | R&S                       | ESU8      | 100372      | 2022.04.12       | 2023.04.11       |
| LISN                   | COM-POWER                 | LI-115    | 02032       | 2022.04.13       | 2023.04.12       |
| LISN                   | SCHWARZBECK               | NNLK 8121 | 00847       | 2022.08.19       | 2023.08.18       |
| CE Cable               | N.A                       | C01       | N.A         | 2022.05.05       | 2023.05.04       |
| Transient Limiter      | CYBERTEK                  | EM5010A   | E2250100049 | 2022.08.19       | 2023.08.18       |
| Temperature & Humidity | KTJ                       | TA218B    | N.A         | 2022.05.05       | 2023.05.04       |
| Testing Software       | EZ-EMC(Ver.EMC-CON 3A1.1) |           |             |                  |                  |

### RF Connected Test

| Kind of Equipment                  | Manufacturer        | Type No.   | Company No.   | Last calibration | Calibrated until |
|------------------------------------|---------------------|------------|---------------|------------------|------------------|
| Signal Analyzer                    | keysight            | N9010B     | MY60242508    | 2022.04.29       | 2023.04.28       |
| RF Automatic Test system           | 迈微                  | MW200-RFCB | MW220322LG    | 2022.04.29       | 2023.04.28       |
| Temperature & Humidity             | KTJ                 | TA218B     | N.A           | 2022.05.05       | 2023.05.04       |
| Temperature& Humidity test chamber | AISRY               | LX-1000L   | 171200018     | 2022.05.10       | 2023.05.09       |
| Attenuator                         | eastsheep           | 90db       | N.A           | 2022.04.29       | 2023.04.28       |
| Router                             | WAVLINK             | WL-WN575A2 | WL1512260336  | N.C.R            | N.C.R            |
| Router                             | TP-LINK             | TL-WR885N  | 1125074010735 | N.C.R            | N.C.R            |
| Testing Software                   | MTS8310_V2.0.0.0_迈微 |            |               |                  |                  |



### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

| FREQUENCY (MHz) | Class B (dBuV) |           | Standard |
|-----------------|----------------|-----------|----------|
|                 | Quasi-peak     | Average   |          |
| 0.15 -0.5       | 66 - 56 *      | 56 - 46 * | CISPR    |
| 0.50 -5.0       | 56.00          | 46.00     | CISPR    |
| 5.0 -30.0       | 60.00          | 50.00     | CISPR    |

|           |           |           |     |
|-----------|-----------|-----------|-----|
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * | FCC |
| 0.50 -5.0 | 56.00     | 46.00     | FCC |
| 5.0 -30.0 | 60.00     | 50.00     | FCC |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ \* ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

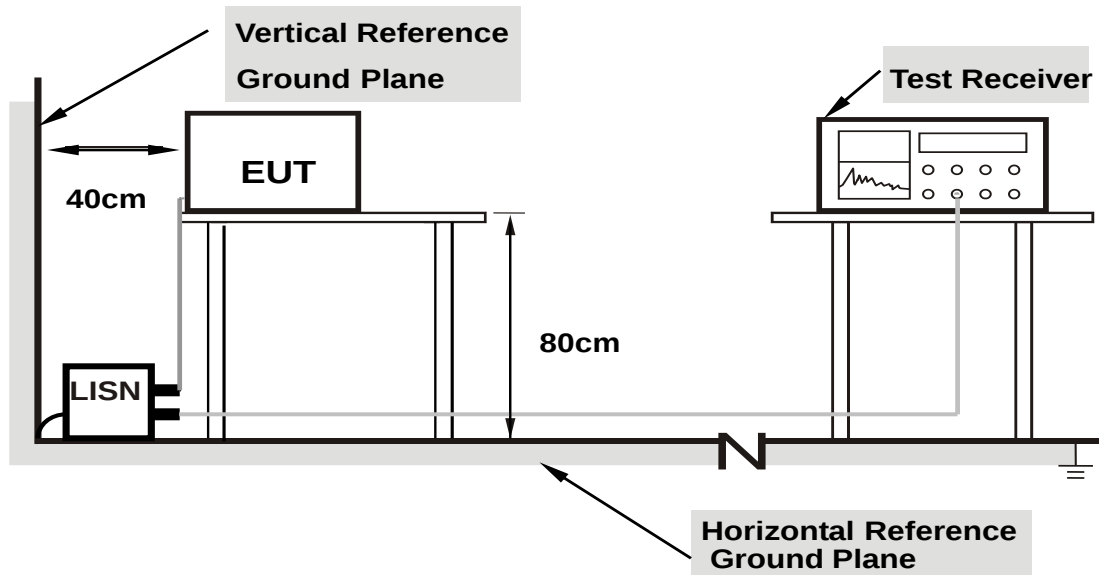
### 3.1.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.1.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.1.4 TEST SETUP



**Note: 1. Support units were connected to second LISN.**

**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.**

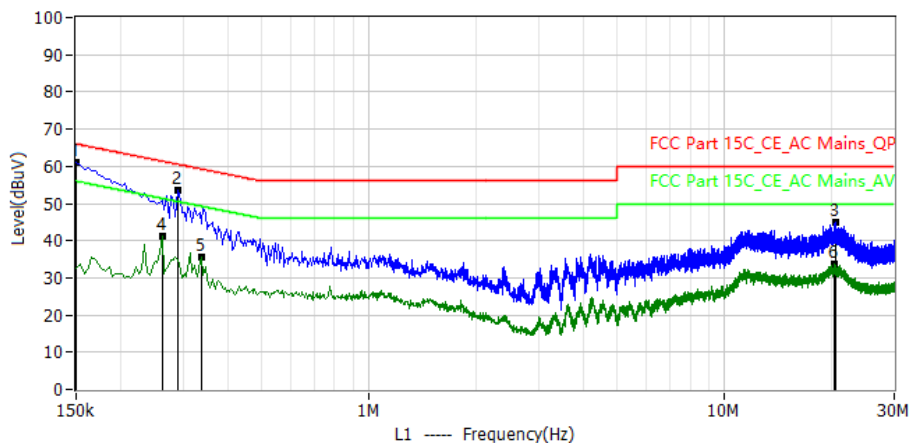
### 3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

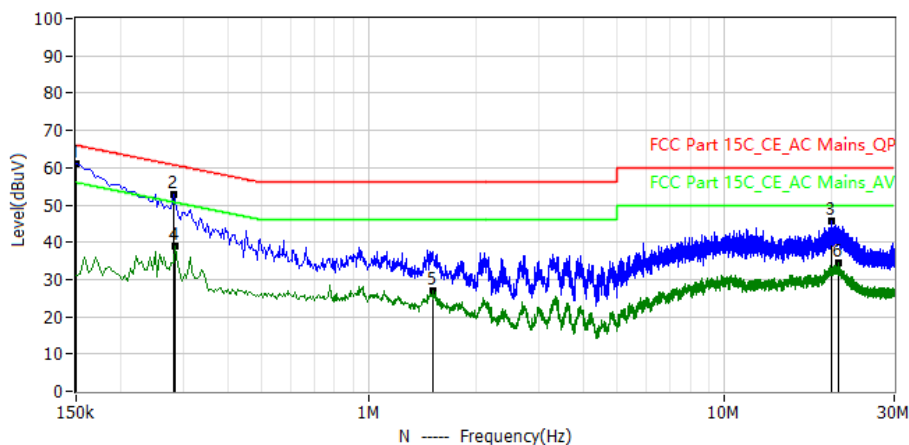


### 3.1.6 TEST RESULTS

|                         |                       |
|-------------------------|-----------------------|
| M/N: WF2190 Pro         | Temperature: 25°C     |
| S/N:                    | Humidity: 45%RH       |
| Test Mode: 5GHz WIFI TX | Test Voltage: DC 5V   |
| Note:                   | Test Data: 2022-09-05 |



| No. | Frequency  | Limit dBuV | Level dBuV | Margin dB | Reading dBuV | Factor dB | Detector | Phase |
|-----|------------|------------|------------|-----------|--------------|-----------|----------|-------|
| 1*  | 150.000kHz | 66.00      | 61.06      | -4.94     | 50.56        | 10.50     | QP       | L1    |
| 2*  | 290.000kHz | 60.52      | 53.51      | -7.02     | 43.01        | 10.50     | QP       | L1    |
| 3*  | 20.526MHz  | 60.00      | 44.87      | -15.13    | 33.77        | 11.10     | QP       | L1    |
| 4*  | 262.000kHz | 51.37      | 41.19      | -10.17    | 30.69        | 10.50     | AV       | L1    |
| 5*  | 338.000kHz | 49.25      | 35.76      | -13.49    | 25.26        | 10.50     | AV       | L1    |
| 6*  | 20.394MHz  | 50.00      | 33.58      | -16.42    | 22.48        | 11.10     | AV       | L1    |



| No. | Frequency  | Limit dBuV | Level dBuV | Margin dB | Reading dBuV | Factor dB | Detector | Phase |
|-----|------------|------------|------------|-----------|--------------|-----------|----------|-------|
| 1*  | 150.000kHz | 66.00      | 61.20      | -4.80     | 50.70        | 10.50     | QP       | N     |
| 2*  | 282.000kHz | 60.76      | 52.95      | -7.81     | 42.45        | 10.50     | QP       | N     |
| 3*  | 19.914MHz  | 60.00      | 45.82      | -14.18    | 34.72        | 11.10     | QP       | N     |
| 4*  | 286.000kHz | 50.64      | 38.83      | -11.81    | 28.33        | 10.50     | AV       | N     |
| 5*  | 1.514MHz   | 46.00      | 27.05      | -18.95    | 16.41        | 10.64     | AV       | N     |
| 6*  | 20.966MHz  | 50.00      | 34.39      | -15.61    | 23.28        | 11.11     | AV       | N     |



### 3.2 RADIATED EMISSION AND ( BANDEDGE) MEASUREMENT

#### 3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.407(b)7&15.205/209(a), then the limit in the table below has to be followed.

| Frequencies<br>(MHz) | Field Strength<br>(micorvolts/meter) | Measurement Distance<br>(meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009~0.490          | 2400/F(KHz)                          | 300                              |
| 0.490~1.705          | 24000/F(KHz)                         | 30                               |
| 1.705~30.0           | 30                                   | 30                               |
| 30~88                | 100                                  | 3                                |
| 88~216               | 150                                  | 3                                |
| 216~960              | 200                                  | 3                                |
| Above 960            | 500                                  | 3                                |

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Class B (dBuV/m) (at 3M) |         |
|-----------------|--------------------------|---------|
|                 | PEAK                     | AVERAGE |
| Above 1000      | 68.2                     | 54      |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15E.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### LIMITS OF RESTRICTED FREQUENCY BANDS

| FREQUENCY (MHz)   | FREQUENCY (MHz)     | FREQUENCY (MHz) | FREQUENCY (GHz) |
|-------------------|---------------------|-----------------|-----------------|
| 0.090-0.110       | 16.42-16.423        | 399.9-410       | 4.5-5.15        |
| 0.495-0.505       | 16.69475-16.69525   | 608-614         | 5.35-5.46       |
| 2.1735-2.1905     | 16.80425-16.80475   | 960-1240        | 7.25-7.75       |
| 4.125-4.128       | 25.5-25.67          | 1300-1427       | 8.025-8.5       |
| 4.17725-4.17775   | 37.5-38.25          | 1435-1626.5     | 9.0-9.2         |
| 4.20725-4.20775   | 73-74.6             | 1645.5-1646.5   | 9.3-9.5         |
| 6.215-6.218       | 74.8-75.2           | 1660-1710       | 10.6-12.7       |
| 6.26775-6.26825   | 108-121.94          | 1718.8-1722.2   | 13.25-13.4      |
| 6.31175-6.31225   | 123-138             | 2200-2300       | 14.47-14.5      |
| 8.291-8.294       | 149.9-150.05        | 2310-2390       | 15.35-16.2      |
| 8.362-8.366       | 156.52475-156.52525 | 2483.5-2500     | 17.7-21.4       |
| 8.37625-8.38675   | 156.7-156.9         | 2690-2900       | 22.01-23.12     |
| 8.41425-8.41475   | 162.0125-167.17     | 3260-3267       | 23.6-24.0       |
| 12.29-12.293      | 167.72-173.2        | 3332-3339       | 31.2-31.8       |
| 12.51975-12.52025 | 240-285             | 3345.8-3358     | 36.43-36.5      |
| 12.57675-12.57725 | 322-335.4           | 3600-4400       | Above 38.6      |
| 13.36-13.41       |                     |                 |                 |

Note: In case the emission radiated emission above 1000MHz fall within the restricted band the restricted frequency bands, the peak limit is 74 dBuV/m.

#### LIMITS OF EMISSIONS OUTSIDE OF THE FREQUENCY BANDS



Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
  - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note: dBuV/m(at 3M) = EIRP(dBm) + 95.3.

Peak Limit = -27dBm/MHz + 95.3 = 68.3 dBuV/m.

| Spectrum Parameter                    | Setting                         |
|---------------------------------------|---------------------------------|
| Attenuation                           | Auto                            |
| Detector                              | Peak                            |
| Start Frequency                       | 1000 MHz(Peak/AV)               |
| Stop Frequency                        | 10th carrier harmonic (Peak/AV) |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz, AV=1 MHz /3 MHz  |

For Band edge

| Spectrum Parameter                    | Setting                        |
|---------------------------------------|--------------------------------|
| Detector                              | Peak                           |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz, AV=1 MHz /3 MHz |

| Receiver Parameter     | Setting                              |
|------------------------|--------------------------------------|
| Attenuation            | Auto                                 |
| Start ~ Stop Frequency | 9kHz~90kHz / RB 200Hz for PK & AV    |
| Start ~ Stop Frequency | 90kHz~110kHz / RB 200Hz for QP       |
| Start ~ Stop Frequency | 110kHz~490kHz / RB 200Hz for PK & AV |
| Start ~ Stop Frequency | 490kHz~30MHz / RB 9kHz for QP        |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP     |

### 3.2.2 TEST PROCEDURE

- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.



- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

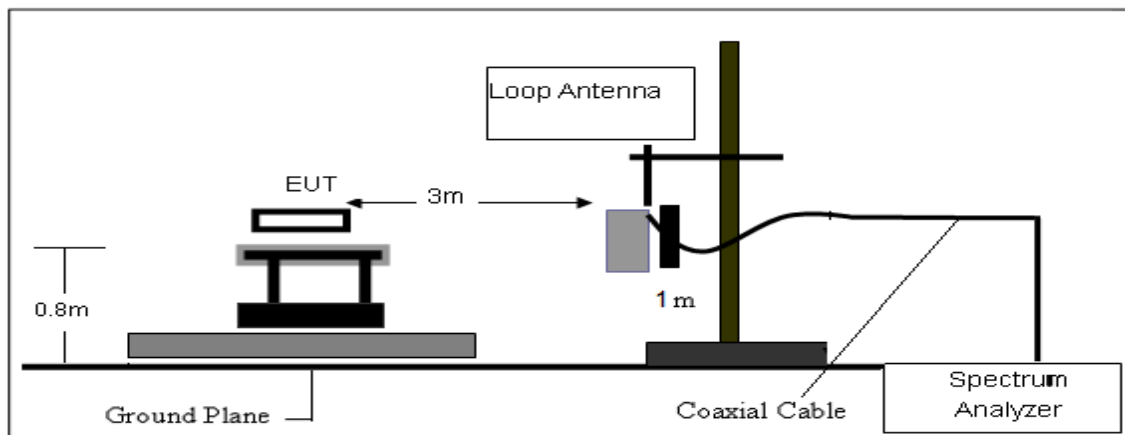
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

### 3.2.2 DEVIATION FROM TEST STANDARD

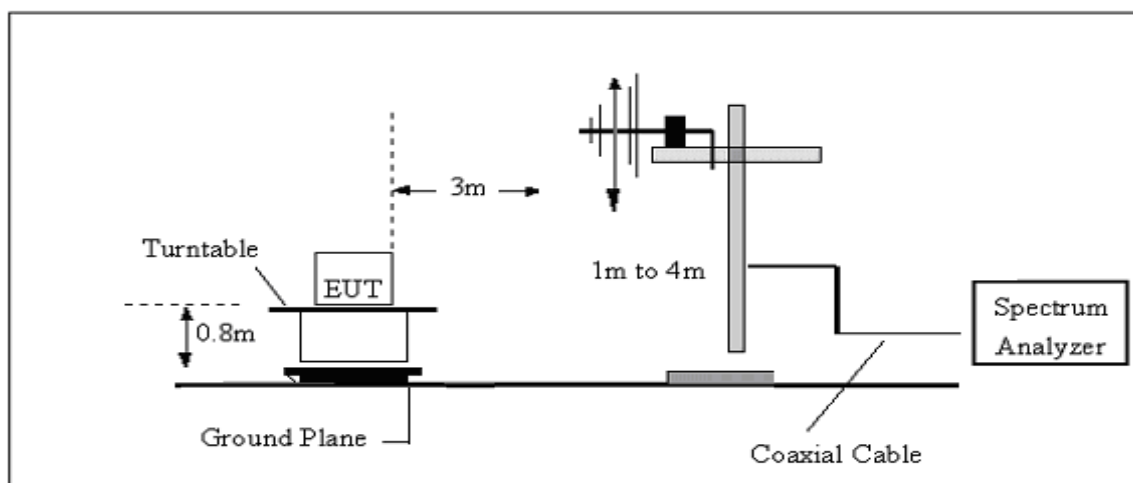
No deviation

### 3.2.3 TEST SETUP

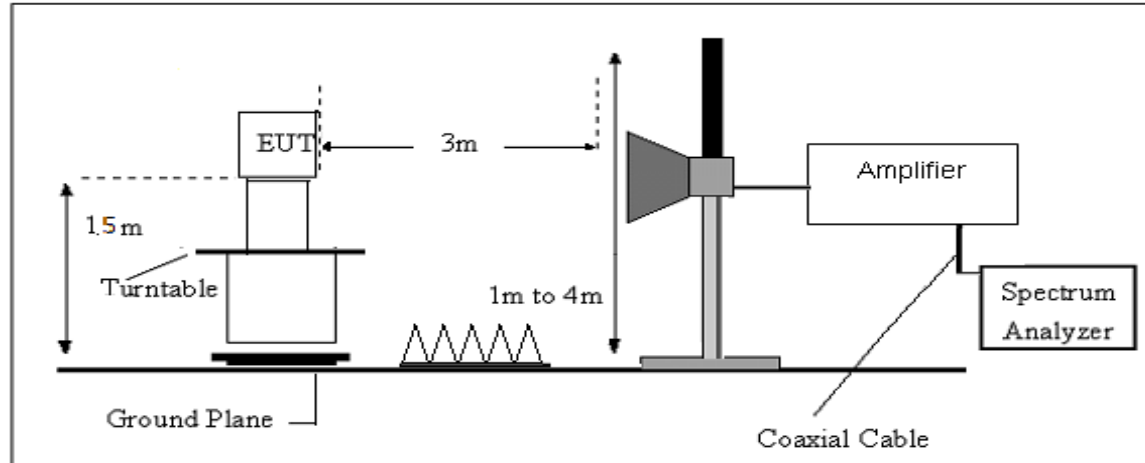
#### (A) Radiated Emission Test-Up Frequency Below 30MHz



#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz





### 3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

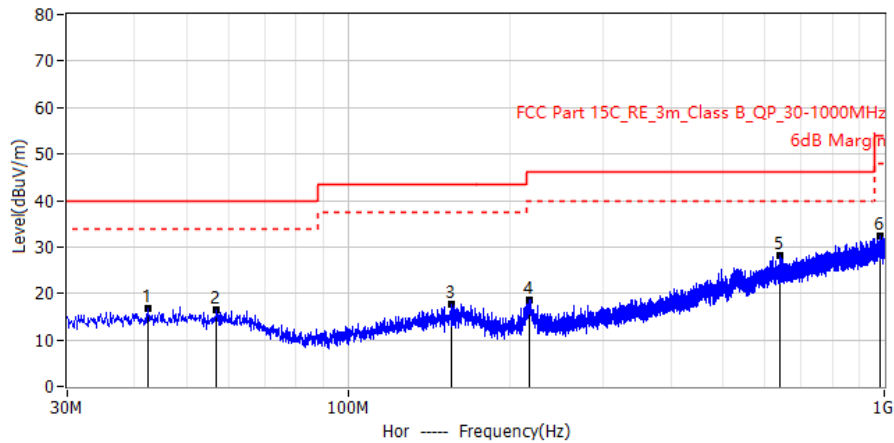
| Frequency | FS       | RA       | AF   | CL   | AG   | Factor |
|-----------|----------|----------|------|------|------|--------|
| (MHz)     | (dBμV/m) | (dBμV/m) | (dB) | (dB) | (dB) | (dB)   |
| 300       | 40       | 58.1     | 12.2 | 1.6  | 31.9 | -18.1  |

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$

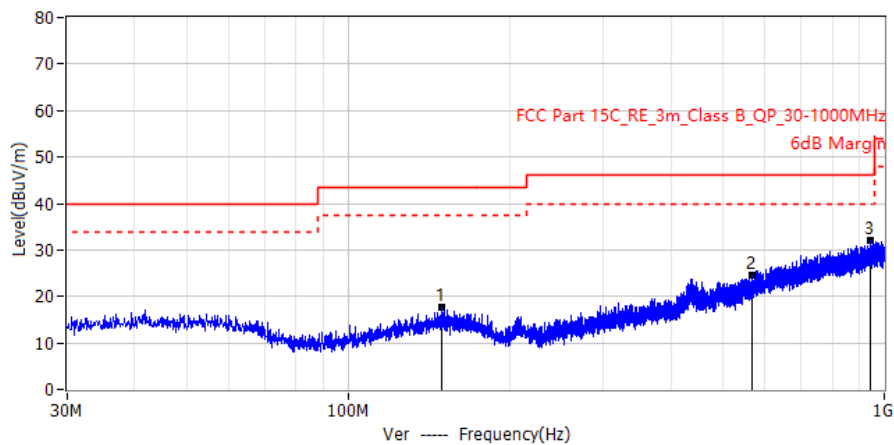


### 3.2.6 TEST RESULTS

|                         |                       |
|-------------------------|-----------------------|
| M/N: WF2190 Pro         | Temperature: 25°C     |
| S/N:                    | Humidity: 45%RH       |
| Test Mode: 5GHz WIFI TX | Test Voltage: DC 5V   |
| Note:                   | Test Data: 2022-09-20 |



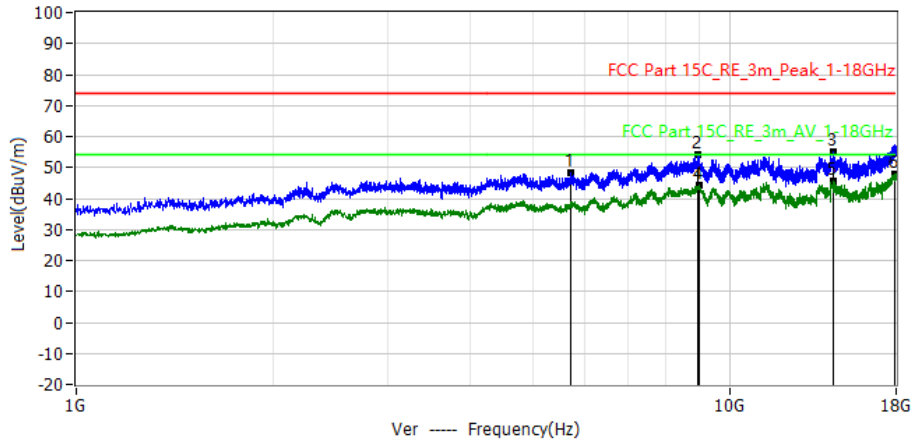
| No. | Frequency  | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|------------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 42.489MHz  | 40.00        | 16.86        | -23.14   | 3.05         | 13.81       | QP       | Hor   |
| 2*  | 56.918MHz  | 40.00        | 16.54        | -23.46   | 3.27         | 13.27       | QP       | Hor   |
| 3*  | 155.736MHz | 43.50        | 17.77        | -25.73   | 3.57         | 14.20       | QP       | Hor   |
| 4*  | 217.574MHz | 46.00        | 18.68        | -27.32   | 7.96         | 10.72       | QP       | Hor   |
| 5*  | 637.341MHz | 46.00        | 28.20        | -17.80   | 5.36         | 22.84       | QP       | Hor   |
| 6*  | 984.359MHz | 54.00        | 32.25        | -21.75   | 4.39         | 27.86       | QP       | Hor   |



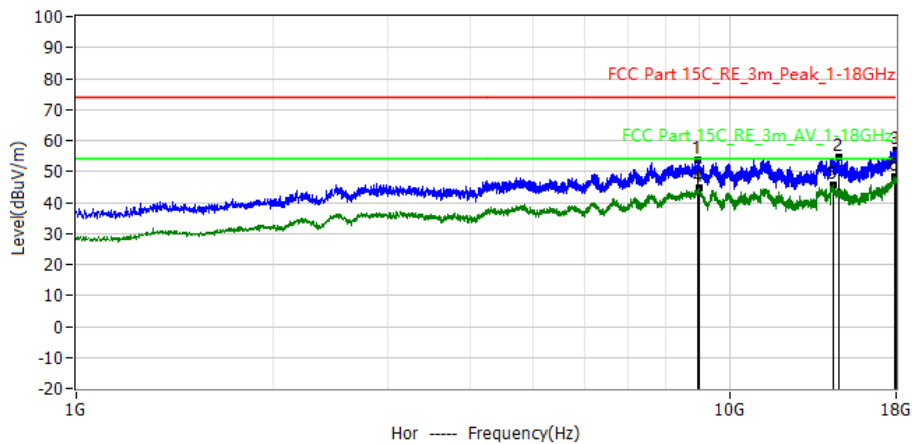
| No. | Frequency  | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|------------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 149.795MHz | 43.50        | 17.75        | -25.75   | 3.57         | 14.18       | QP       | Ver   |
| 2*  | 566.895MHz | 46.00        | 24.70        | -21.30   | 3.48         | 21.22       | QP       | Ver   |
| 3*  | 944.225MHz | 46.00        | 32.12        | -13.88   | 4.52         | 27.60       | QP       | Ver   |



|                               |                       |
|-------------------------------|-----------------------|
| M/N: WF2190 Pro               | Temperature: 25°C     |
| S/N:                          | Humidity: 45%RH       |
| Test Mode: B1 802.11ac20 5180 | Test Voltage: DC 5V   |
| Note:                         | Test Data: 2022-09-20 |



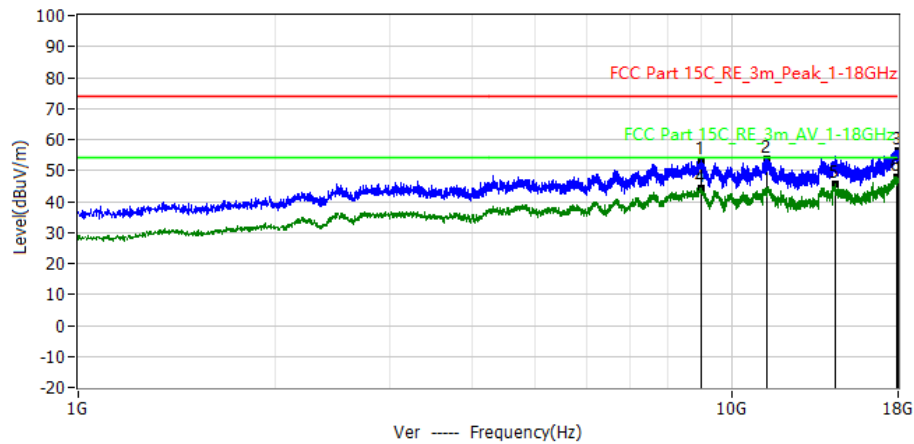
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 5.724GHz  | 74.00        | 48.28        | -25.72   | 55.93        | -7.65       | PK       | Ver   |
| 2*  | 8.941GHz  | 74.00        | 53.96        | -20.04   | 55.30        | -1.34       | PK       | Ver   |
| 3*  | 14.411GHz | 74.00        | 55.19        | -18.81   | 49.28        | 5.91        | PK       | Ver   |
| 4*  | 8.999GHz  | 54.00        | 44.10        | -9.90    | 45.27        | -1.17       | AV       | Ver   |
| 5*  | 14.413GHz | 54.00        | 45.57        | -8.43    | 39.66        | 5.91        | AV       | Ver   |
| 6*  | 17.913GHz | 54.00        | 47.93        | -6.07    | 39.47        | 8.46        | AV       | Ver   |



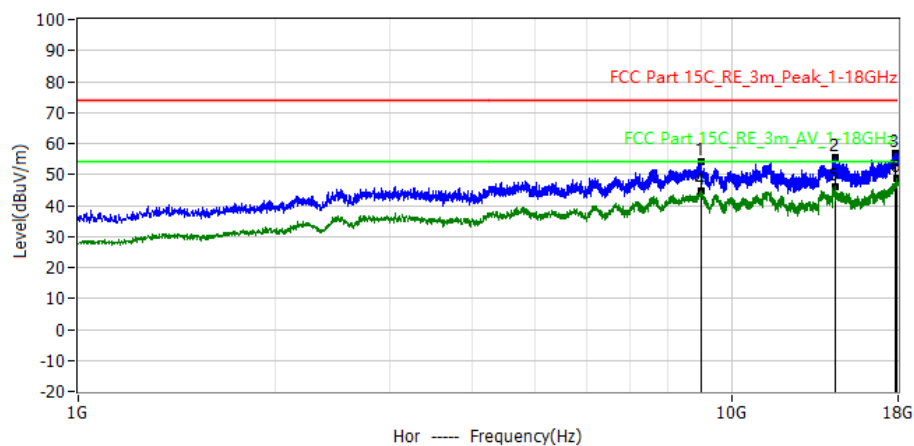
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 8.952GHz  | 74.00        | 53.77        | -20.23   | 55.08        | -1.31       | PK       | Hor   |
| 2*  | 14.732GHz | 74.00        | 54.65        | -19.35   | 48.71        | 5.94        | PK       | Hor   |
| 3*  | 17.996GHz | 74.00        | 56.99        | -17.01   | 48.47        | 8.52        | PK       | Hor   |
| 4*  | 8.996GHz  | 54.00        | 44.75        | -9.25    | 45.93        | -1.18       | AV       | Hor   |
| 5*  | 14.422GHz | 54.00        | 45.77        | -8.23    | 39.86        | 5.91        | AV       | Hor   |
| 6*  | 17.949GHz | 54.00        | 48.41        | -5.59    | 39.93        | 8.48        | AV       | Hor   |



|                               |                                |
|-------------------------------|--------------------------------|
| M/N: WF2190 Pro               | Temperature: 25°C              |
| S/N:                          | Humidity: 45%RH                |
| Test Mode: B1 802.11ac20 5200 | Test Voltage: DC 5V            |
| Note:                         | Test Data: 2022-09-20 14:02:14 |



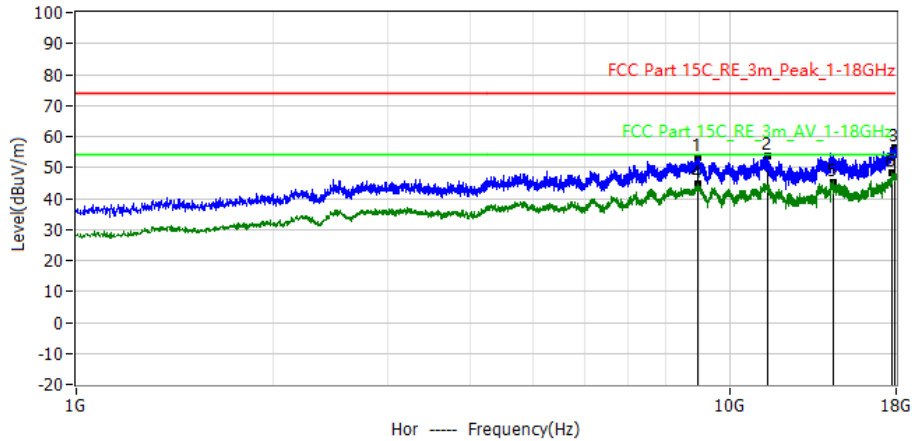
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 8.982GHz  | 74.00        | 53.15        | -20.85   | 54.37        | -1.22       | PK       | Ver   |
| 2*  | 11.336GHz | 74.00        | 53.85        | -20.15   | 52.02        | 1.83        | PK       | Ver   |
| 3*  | 17.964GHz | 74.00        | 56.43        | -17.57   | 47.94        | 8.49        | PK       | Ver   |
| 4*  | 8.984GHz  | 54.00        | 44.25        | -9.75    | 45.47        | -1.22       | AV       | Ver   |
| 5*  | 14.422GHz | 54.00        | 45.71        | -8.29    | 39.80        | 5.91        | AV       | Ver   |
| 6*  | 17.900GHz | 54.00        | 48.06        | -5.94    | 39.61        | 8.45        | AV       | Ver   |



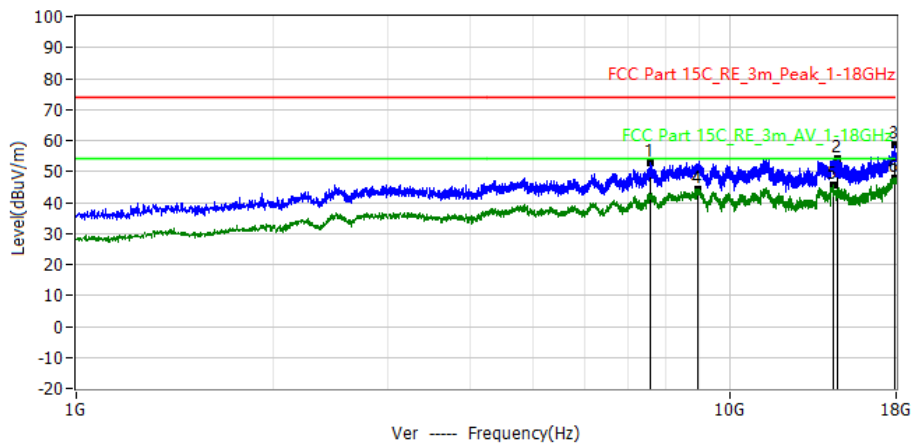
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 9.001GHz  | 74.00        | 54.18        | -19.82   | 55.35        | -1.17       | PK       | Hor   |
| 2*  | 14.394GHz | 74.00        | 55.48        | -18.52   | 49.57        | 5.91        | PK       | Hor   |
| 3*  | 17.860GHz | 74.00        | 57.07        | -16.93   | 48.65        | 8.42        | PK       | Hor   |
| 4*  | 9.009GHz  | 54.00        | 44.51        | -9.49    | 45.68        | -1.17       | AV       | Hor   |
| 5*  | 14.417GHz | 54.00        | 46.09        | -7.91    | 40.18        | 5.91        | AV       | Hor   |
| 6*  | 17.915GHz | 54.00        | 48.60        | -5.40    | 40.14        | 8.46        | AV       | Hor   |



|                               |                                |
|-------------------------------|--------------------------------|
| M/N: WF2190 Pro               | Temperature: 25°C              |
| S/N:                          | Humidity: 45%RH                |
| Test Mode: B1 802.11ac20 5240 | Test Voltage: DC 5V            |
| Note:                         | Test Data: 2022-09-20 14:03:51 |



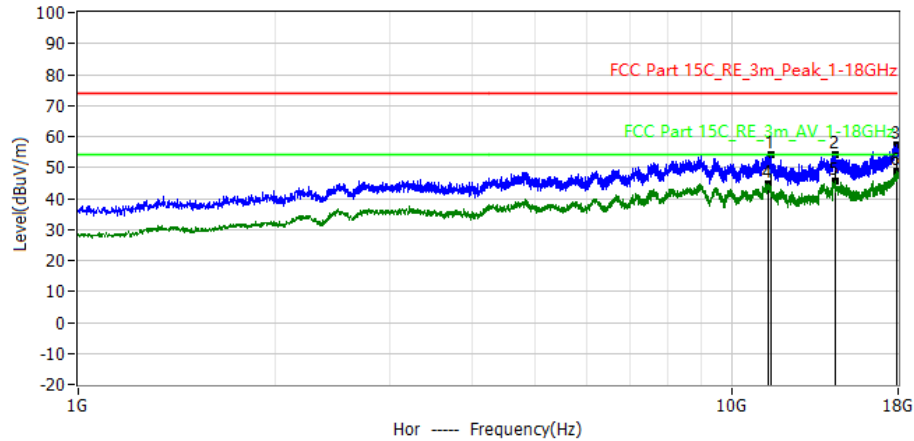
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 8.928GHz  | 74.00        | 53.06        | -20.94   | 54.43        | -1.37       | PK       | Hor   |
| 2*  | 11.442GHz | 74.00        | 53.67        | -20.33   | 51.78        | 1.89        | PK       | Hor   |
| 3*  | 17.898GHz | 74.00        | 56.37        | -17.63   | 47.92        | 8.45        | PK       | Hor   |
| 4*  | 8.931GHz  | 54.00        | 44.61        | -9.39    | 45.98        | -1.37       | AV       | Hor   |
| 5*  | 14.415GHz | 54.00        | 45.39        | -8.61    | 39.48        | 5.91        | AV       | Hor   |
| 6*  | 17.717GHz | 54.00        | 48.13        | -5.87    | 39.81        | 8.32        | AV       | Hor   |



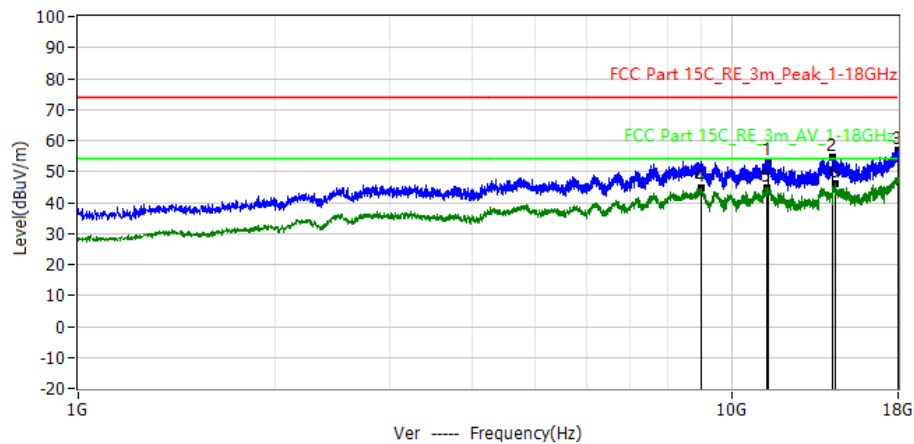
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 7.583GHz  | 74.00        | 52.71        | -21.29   | 56.96        | -4.25       | PK       | Ver   |
| 2*  | 14.660GHz | 74.00        | 54.37        | -19.63   | 48.44        | 5.93        | PK       | Ver   |
| 3*  | 17.943GHz | 74.00        | 58.43        | -15.57   | 49.95        | 8.48        | PK       | Ver   |
| 4*  | 8.956GHz  | 54.00        | 44.43        | -9.57    | 45.72        | -1.29       | AV       | Ver   |
| 5*  | 14.415GHz | 54.00        | 45.71        | -8.29    | 39.80        | 5.91        | AV       | Ver   |
| 6*  | 17.902GHz | 54.00        | 48.03        | -5.97    | 39.58        | 8.45        | AV       | Ver   |



|                               |                                |
|-------------------------------|--------------------------------|
| M/N: WF2190 Pro               | Temperature: 25°C              |
| S/N:                          | Humidity: 45%RH                |
| Test Mode: B2 802.11ac20 5260 | Test Voltage: DC 5V            |
| Note:                         | Test Data: 2022-09-20 14:05:49 |



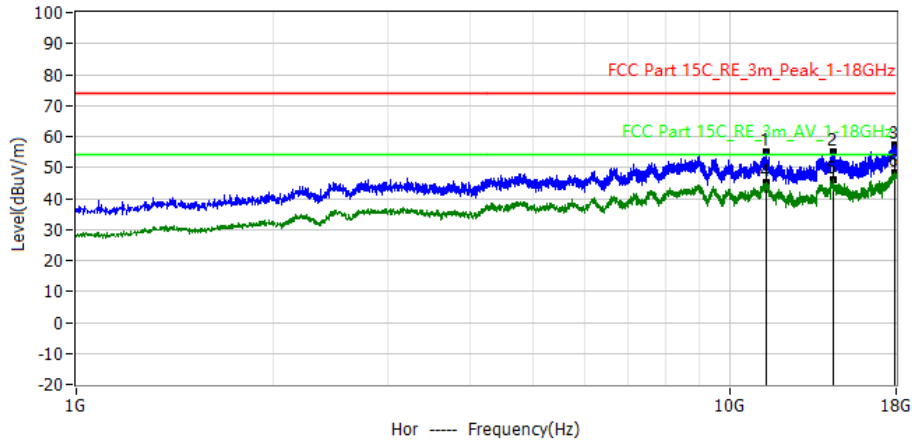
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 11.495GHz | 74.00        | 54.16        | -19.84   | 52.24        | 1.92        | PK       | Hor   |
| 2*  | 14.413GHz | 74.00        | 54.11        | -19.89   | 48.20        | 5.91        | PK       | Hor   |
| 3*  | 17.904GHz | 74.00        | 57.47        | -16.53   | 49.02        | 8.45        | PK       | Hor   |
| 4*  | 11.400GHz | 54.00        | 44.66        | -9.34    | 42.79        | 1.87        | AV       | Hor   |
| 5*  | 14.417GHz | 54.00        | 45.49        | -8.51    | 39.58        | 5.91        | AV       | Hor   |
| 6*  | 17.907GHz | 54.00        | 48.56        | -5.44    | 40.11        | 8.45        | AV       | Hor   |



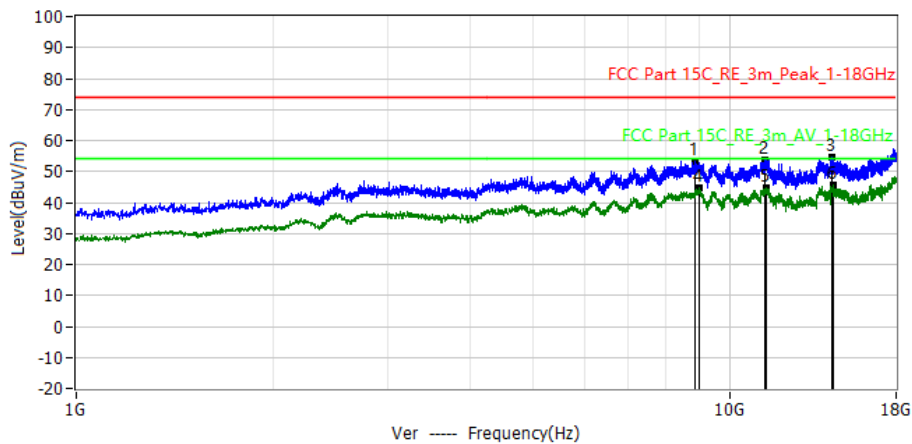
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|
| 1*  | 11.400GHz | 74.00        | 53.41        | -20.59   | 51.54        | 1.87        | PK       |
| 2*  | 14.290GHz | 74.00        | 54.61        | -19.39   | 48.71        | 5.90        | PK       |
| 3*  | 17.960GHz | 74.00        | 56.92        | -17.08   | 48.43        | 8.49        | PK       |
| 4*  | 9.009GHz  | 54.00        | 44.64        | -9.36    | 45.81        | -1.17       | AV       |
| 5*  | 11.342GHz | 54.00        | 44.70        | -9.30    | 42.87        | 1.83        | AV       |
| 6*  | 14.411GHz | 54.00        | 45.97        | -8.03    | 40.06        | 5.91        | AV       |



|                               |                                |
|-------------------------------|--------------------------------|
| M/N: WF2190 Pro               | Temperature: 25°C              |
| S/N:                          | Humidity: 45%RH                |
| Test Mode: B2 802.11ac20 5300 | Test Voltage: DC 5V            |
| Note:                         | Test Data: 2022-09-20 14:06:10 |



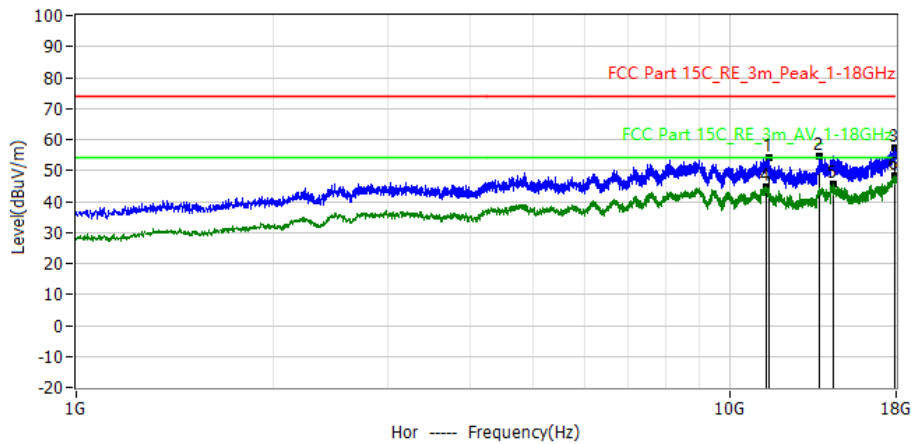
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 11.402GHz | 74.00        | 55.04        | -18.96   | 53.17        | 1.87        | PK       | Hor   |
| 2*  | 14.405GHz | 74.00        | 55.14        | -18.86   | 49.23        | 5.91        | PK       | Hor   |
| 3*  | 17.955GHz | 74.00        | 57.36        | -16.64   | 48.87        | 8.49        | PK       | Hor   |
| 4*  | 11.387GHz | 54.00        | 45.00        | -9.00    | 43.14        | 1.86        | AV       | Hor   |
| 5*  | 14.415GHz | 54.00        | 45.93        | -8.07    | 40.02        | 5.91        | AV       | Hor   |
| 6*  | 17.947GHz | 54.00        | 48.43        | -5.57    | 39.95        | 8.48        | AV       | Hor   |



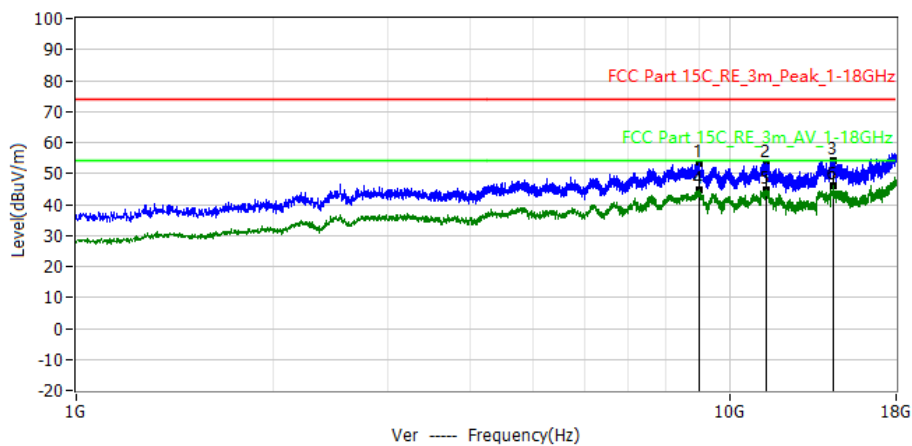
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 8.869GHz  | 74.00        | 53.47        | -20.53   | 55.01        | -1.54       | PK       | Ver   |
| 2*  | 11.347GHz | 74.00        | 53.89        | -20.11   | 52.06        | 1.83        | PK       | Ver   |
| 3*  | 14.351GHz | 74.00        | 54.39        | -19.61   | 48.49        | 5.90        | PK       | Ver   |
| 4*  | 8.999GHz  | 54.00        | 44.64        | -9.36    | 45.81        | -1.17       | AV       | Ver   |
| 5*  | 11.402GHz | 54.00        | 44.63        | -9.37    | 42.76        | 1.87        | AV       | Ver   |
| 6*  | 14.411GHz | 54.00        | 45.59        | -8.41    | 39.68        | 5.91        | AV       | Ver   |



|                               |                                |
|-------------------------------|--------------------------------|
| M/N: WF2190 Pro               | Temperature: 25°C              |
| S/N:                          | Humidity: 45%RH                |
| Test Mode: B2 802.11ac20 5320 | Test Voltage: DC 5V            |
| Note:                         | Test Data: 2022-09-20 14:06:34 |



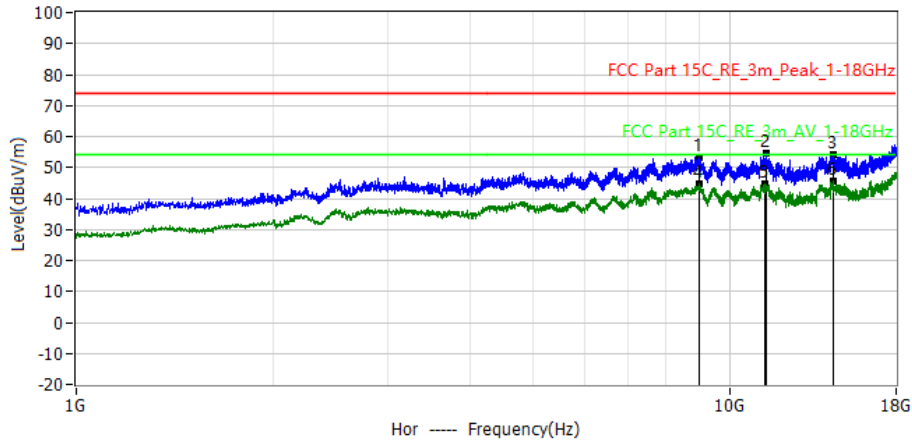
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 11.502GHz | 74.00        | 53.98        | -20.02   | 52.05        | 1.93        | PK       | Hor   |
| 2*  | 13.744GHz | 74.00        | 54.55        | -19.45   | 49.56        | 4.99        | PK       | Hor   |
| 3*  | 17.941GHz | 74.00        | 57.50        | -16.50   | 49.02        | 8.48        | PK       | Hor   |
| 4*  | 11.391GHz | 54.00        | 44.75        | -9.25    | 42.89        | 1.86        | AV       | Hor   |
| 5*  | 14.417GHz | 54.00        | 45.58        | -8.42    | 39.67        | 5.91        | AV       | Hor   |
| 6*  | 17.953GHz | 54.00        | 48.22        | -5.78    | 39.73        | 8.49        | AV       | Hor   |



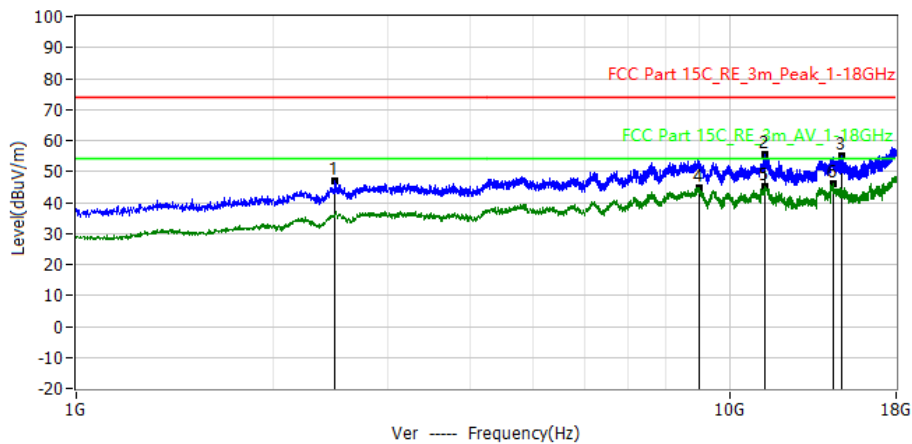
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 8.973GHz  | 74.00        | 53.04        | -20.96   | 54.29        | -1.25       | PK       | Ver   |
| 2*  | 11.400GHz | 74.00        | 53.27        | -20.73   | 51.40        | 1.87        | PK       | Ver   |
| 3*  | 14.413GHz | 74.00        | 54.32        | -19.68   | 48.41        | 5.91        | PK       | Ver   |
| 4*  | 9.001GHz  | 54.00        | 44.53        | -9.47    | 45.70        | -1.17       | AV       | Ver   |
| 5*  | 11.406GHz | 54.00        | 44.63        | -9.37    | 42.76        | 1.87        | AV       | Ver   |
| 6*  | 14.396GHz | 54.00        | 45.87        | -8.13    | 39.96        | 5.91        | AV       | Ver   |



|                               |                                |
|-------------------------------|--------------------------------|
| M/N: WF2190 Pro               | Temperature: 25°C              |
| S/N:                          | Humidity: 45%RH                |
| Test Mode: B3 802.11ac80 5530 | Test Voltage: DC 5V            |
| Note:                         | Test Data: 2022-09-20 14:10:14 |



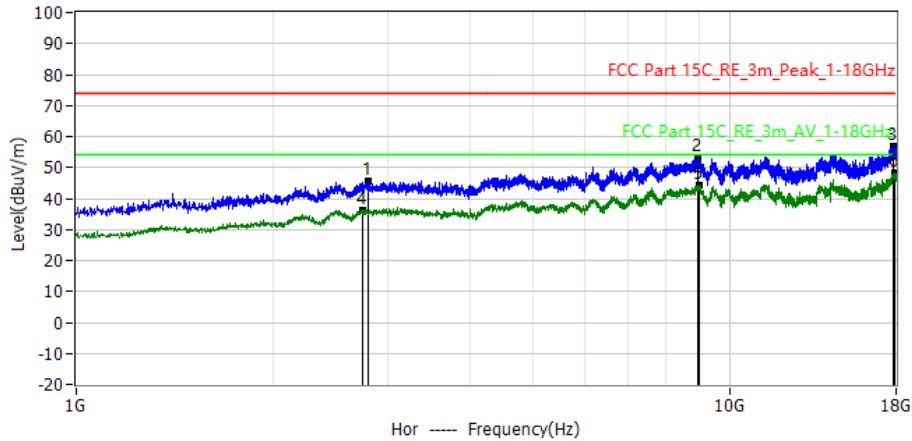
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 9.007GHz  | 74.00        | 53.33        | -20.67   | 54.50        | -1.17       | PK       | Hor   |
| 2*  | 11.402GHz | 74.00        | 54.40        | -19.60   | 52.53        | 1.87        | PK       | Hor   |
| 3*  | 14.400GHz | 74.00        | 54.05        | -19.95   | 48.14        | 5.91        | PK       | Hor   |
| 4*  | 9.007GHz  | 54.00        | 44.52        | -9.48    | 45.69        | -1.17       | AV       | Hor   |
| 5*  | 11.349GHz | 54.00        | 44.63        | -9.37    | 42.79        | 1.84        | AV       | Hor   |
| 6*  | 14.413GHz | 54.00        | 45.55        | -8.45    | 39.64        | 5.91        | AV       | Hor   |



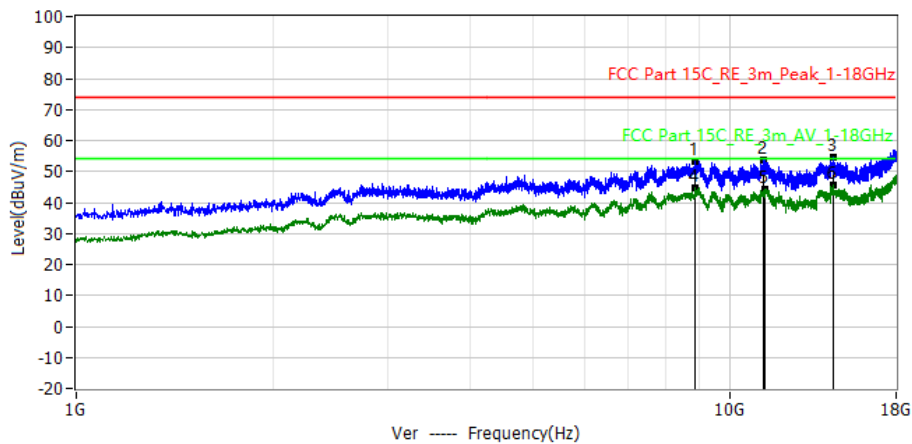
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 2.492GHz  | 74.00        | 47.02        | -26.98   | 58.09        | -11.07      | PK       | Ver   |
| 2*  | 11.334GHz | 74.00        | 55.35        | -18.65   | 53.52        | 1.83        | PK       | Ver   |
| 3*  | 14.842GHz | 74.00        | 55.04        | -18.96   | 49.09        | 5.95        | PK       | Ver   |
| 4*  | 8.994GHz  | 54.00        | 44.72        | -9.28    | 45.91        | -1.19       | AV       | Ver   |
| 5*  | 11.342GHz | 54.00        | 44.99        | -9.01    | 43.16        | 1.83        | AV       | Ver   |
| 6*  | 14.415GHz | 54.00        | 46.08        | -7.92    | 40.17        | 5.91        | AV       | Ver   |



|                               |                                |
|-------------------------------|--------------------------------|
| M/N: WF2190 Pro               | Temperature: 25°C              |
| S/N:                          | Humidity: 45%RH                |
| Test Mode: B3 802.11ac80 5610 | Test Voltage: DC 5V            |
| Note:                         | Test Data: 2022-09-20 14:11:05 |



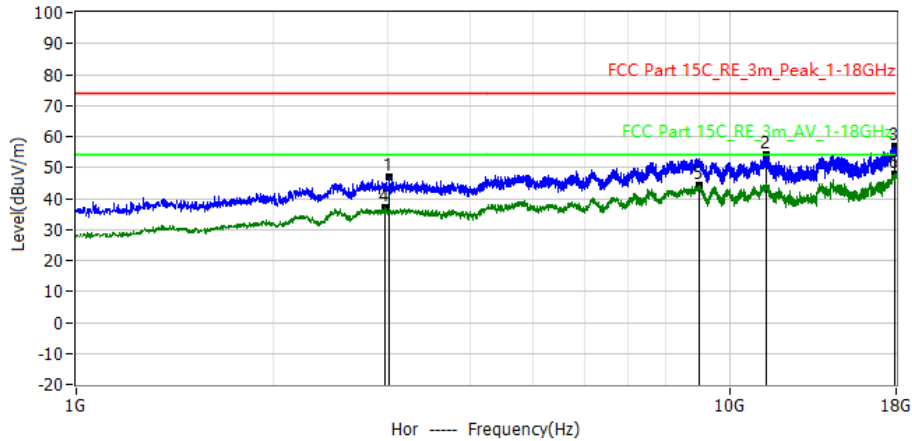
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 2.804GHz  | 74.00        | 45.51        | -28.49   | 54.89        | -9.38       | PK       | Hor   |
| 2*  | 8.952GHz  | 74.00        | 53.32        | -20.68   | 54.63        | -1.31       | PK       | Hor   |
| 3*  | 17.790GHz | 74.00        | 56.79        | -17.21   | 48.42        | 8.37        | PK       | Hor   |
| 4*  | 2.747GHz  | 54.00        | 36.39        | -17.61   | 46.07        | -9.68       | AV       | Hor   |
| 5*  | 9.005GHz  | 54.00        | 44.33        | -9.67    | 45.50        | -1.17       | AV       | Hor   |
| 6*  | 17.917GHz | 54.00        | 48.43        | -5.57    | 39.97        | 8.46        | AV       | Hor   |



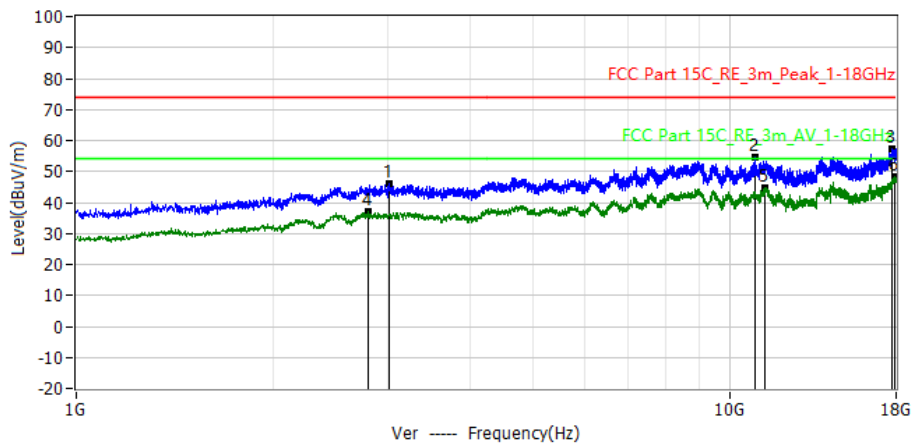
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 8.854GHz  | 74.00        | 53.21        | -20.79   | 54.79        | -1.58       | PK       | Ver   |
| 2*  | 11.277GHz | 74.00        | 53.73        | -20.27   | 51.94        | 1.79        | PK       | Ver   |
| 3*  | 14.413GHz | 74.00        | 54.66        | -19.34   | 48.75        | 5.91        | PK       | Ver   |
| 4*  | 8.867GHz  | 54.00        | 44.83        | -9.17    | 46.38        | -1.55       | AV       | Ver   |
| 5*  | 11.355GHz | 54.00        | 44.39        | -9.61    | 42.55        | 1.84        | AV       | Ver   |
| 6*  | 14.409GHz | 54.00        | 45.56        | -8.44    | 39.65        | 5.91        | AV       | Ver   |



|                              |                                |
|------------------------------|--------------------------------|
| M/N: WF2190 Pro              | Temperature: 25°C              |
| S/N:                         | Humidity: 45%RH                |
| Test Mode: B4 802.11n20 5745 | Test Voltage: DC 5V            |
| Note:                        | Test Data: 2022-09-20 14:12:17 |



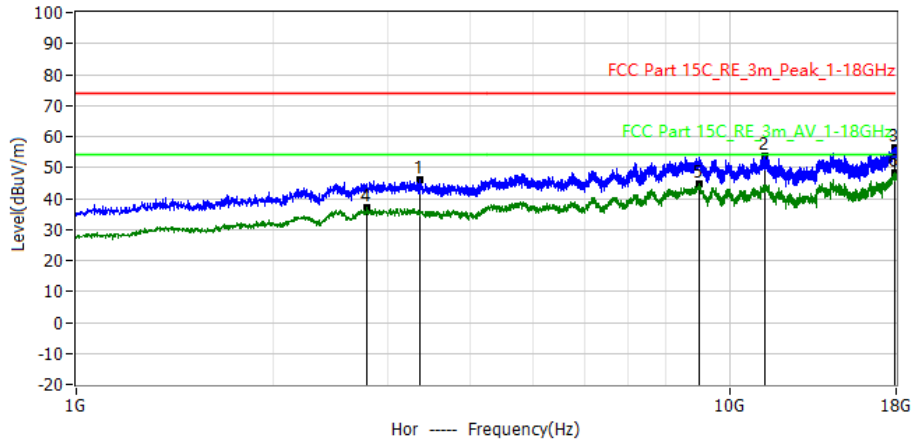
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 3.012GHz  | 74.00        | 46.90        | -27.10   | 55.24        | -8.34       | PK       | Hor   |
| 2*  | 11.406GHz | 74.00        | 54.21        | -19.79   | 52.34        | 1.87        | PK       | Hor   |
| 3*  | 17.898GHz | 74.00        | 57.04        | -16.96   | 48.59        | 8.45        | PK       | Hor   |
| 4*  | 2.970GHz  | 54.00        | 37.01        | -16.99   | 45.51        | -8.50       | AV       | Hor   |
| 5*  | 8.990GHz  | 54.00        | 44.31        | -9.69    | 45.51        | -1.20       | AV       | Hor   |
| 6*  | 17.941GHz | 54.00        | 48.06        | -5.94    | 39.58        | 8.48        | AV       | Hor   |



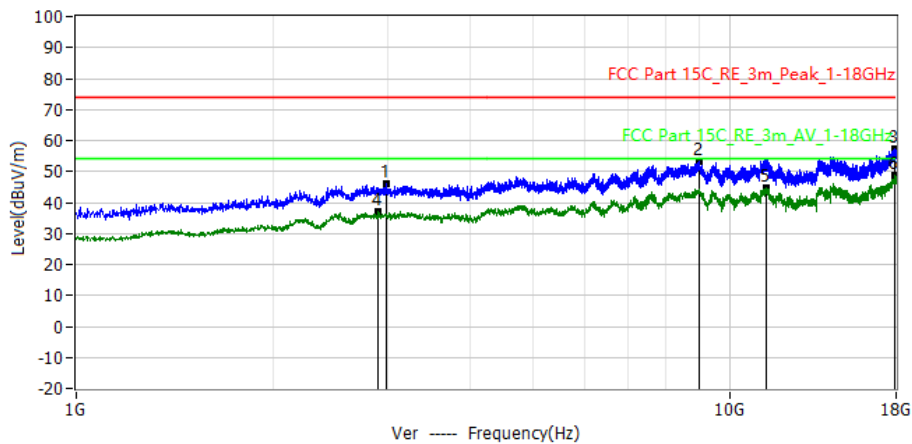
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 3.006GHz  | 74.00        | 45.90        | -28.10   | 54.24        | -8.34       | PK       | Ver   |
| 2*  | 10.966GHz | 74.00        | 54.82        | -19.18   | 53.28        | 1.54        | PK       | Ver   |
| 3*  | 17.711GHz | 74.00        | 57.41        | -16.59   | 49.09        | 8.32        | PK       | Ver   |
| 4*  | 2.802GHz  | 54.00        | 36.93        | -17.07   | 46.32        | -9.39       | AV       | Ver   |
| 5*  | 11.338GHz | 54.00        | 44.72        | -9.28    | 42.89        | 1.83        | AV       | Ver   |
| 6*  | 17.904GHz | 54.00        | 48.51        | -5.49    | 40.06        | 8.45        | AV       | Ver   |



|                              |                                |
|------------------------------|--------------------------------|
| M/N: WF2190 Pro              | Temperature: 25°C              |
| S/N:                         | Humidity: 45%RH                |
| Test Mode: B4 802.11n20 5785 | Test Voltage: DC 5V            |
| Note:                        | Test Data: 2022-09-20 14:13:02 |



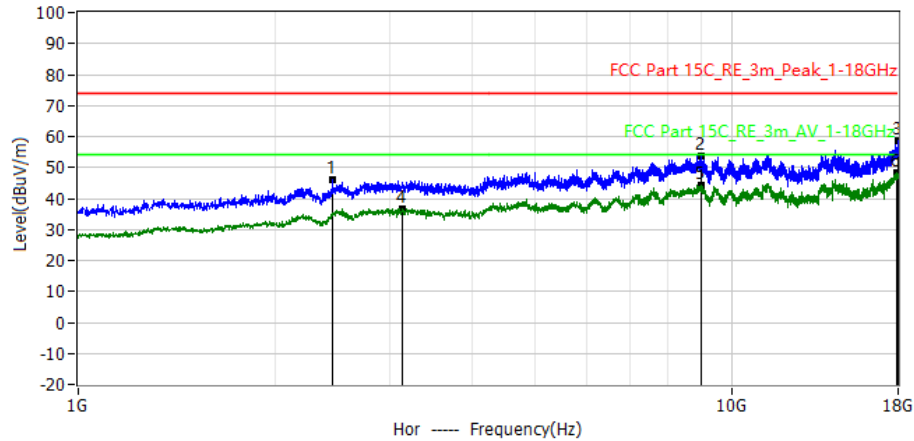
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 3.350GHz  | 74.00        | 46.16        | -27.84   | 54.62        | -8.46       | PK       | Hor   |
| 2*  | 11.328GHz | 74.00        | 53.64        | -20.36   | 51.82        | 1.82        | PK       | Hor   |
| 3*  | 17.936GHz | 74.00        | 56.27        | -17.73   | 47.79        | 8.48        | PK       | Hor   |
| 4*  | 2.783GHz  | 54.00        | 37.17        | -16.83   | 46.66        | -9.49       | AV       | Hor   |
| 5*  | 8.990GHz  | 54.00        | 44.50        | -9.50    | 45.70        | -1.20       | AV       | Hor   |
| 6*  | 17.945GHz | 54.00        | 48.48        | -5.52    | 40.00        | 8.48        | AV       | Hor   |



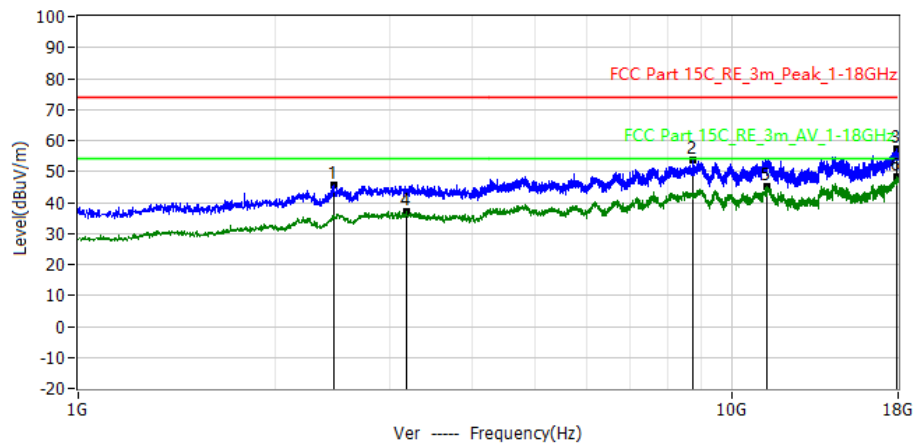
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 2.978GHz  | 74.00        | 45.88        | -28.12   | 54.33        | -8.45       | PK       | Ver   |
| 2*  | 8.992GHz  | 74.00        | 53.08        | -20.92   | 54.27        | -1.19       | PK       | Ver   |
| 3*  | 17.883GHz | 74.00        | 57.19        | -16.81   | 48.75        | 8.44        | PK       | Ver   |
| 4*  | 2.902GHz  | 54.00        | 37.05        | -16.95   | 45.91        | -8.86       | AV       | Ver   |
| 5*  | 11.398GHz | 54.00        | 44.76        | -9.24    | 42.90        | 1.86        | AV       | Ver   |
| 6*  | 17.909GHz | 54.00        | 48.55        | -5.45    | 40.09        | 8.46        | AV       | Ver   |



|                              |                                |
|------------------------------|--------------------------------|
| M/N: WF2190 Pro              | Temperature: 25°C              |
| S/N:                         | Humidity: 45%RH                |
| Test Mode: B4 802.11n20 5825 | Test Voltage: DC 5V            |
| Note:                        | Test Data: 2022-09-20 14:13:29 |



| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 2.447GHz  | 74.00        | 46.23        | -27.77   | 57.77        | -11.54      | PK       | Hor   |
| 2*  | 8.992GHz  | 74.00        | 53.89        | -20.11   | 55.08        | -1.19       | PK       | Hor   |
| 3*  | 17.979GHz | 74.00        | 58.78        | -15.22   | 50.27        | 8.51        | PK       | Hor   |
| 4*  | 3.136GHz  | 54.00        | 36.78        | -17.22   | 45.16        | -8.38       | AV       | Hor   |
| 5*  | 8.994GHz  | 54.00        | 44.17        | -9.83    | 45.36        | -1.19       | AV       | Hor   |
| 6*  | 17.938GHz | 54.00        | 48.10        | -5.90    | 39.62        | 8.48        | AV       | Hor   |

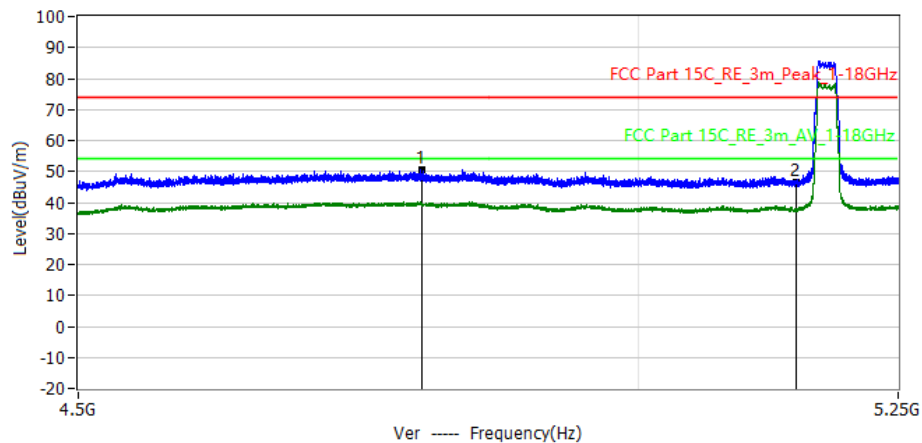


| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 2.458GHz  | 74.00        | 45.42        | -28.58   | 56.85        | -11.43      | PK       | Ver   |
| 2*  | 8.744GHz  | 74.00        | 53.58        | -20.42   | 55.48        | -1.90       | PK       | Ver   |
| 3*  | 17.894GHz | 74.00        | 57.17        | -16.83   | 48.72        | 8.45        | PK       | Ver   |
| 4*  | 3.178GHz  | 54.00        | 37.19        | -16.81   | 45.59        | -8.40       | AV       | Ver   |
| 5*  | 11.338GHz | 54.00        | 45.39        | -8.61    | 43.56        | 1.83        | AV       | Ver   |
| 6*  | 17.949GHz | 54.00        | 48.38        | -5.62    | 39.90        | 8.48        | AV       | Ver   |

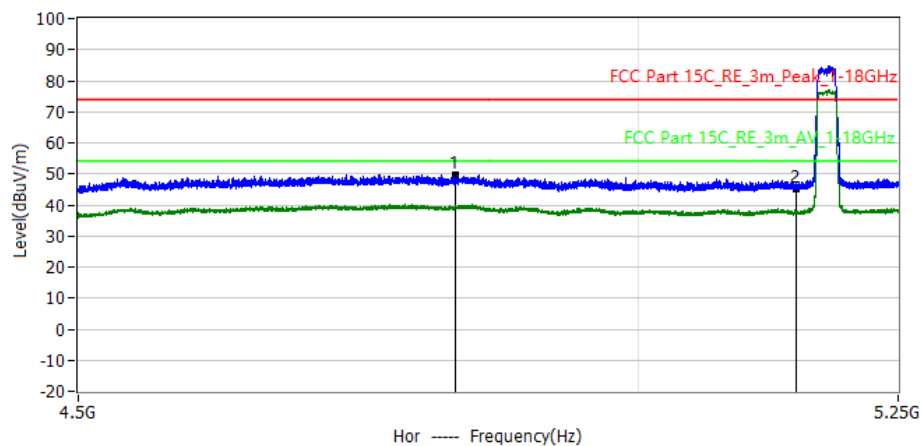


### 3.2.7 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

|                                 |                       |
|---------------------------------|-----------------------|
| M/N: WF2190 Pro                 | Temperature: 25°C     |
| S/N:                            | Humidity: 45%RH       |
| Test Mode: MIMO_802.11ac20_5180 | Test Voltage: DC 5V   |
| Note:                           | Test Data: 2022-09-20 |



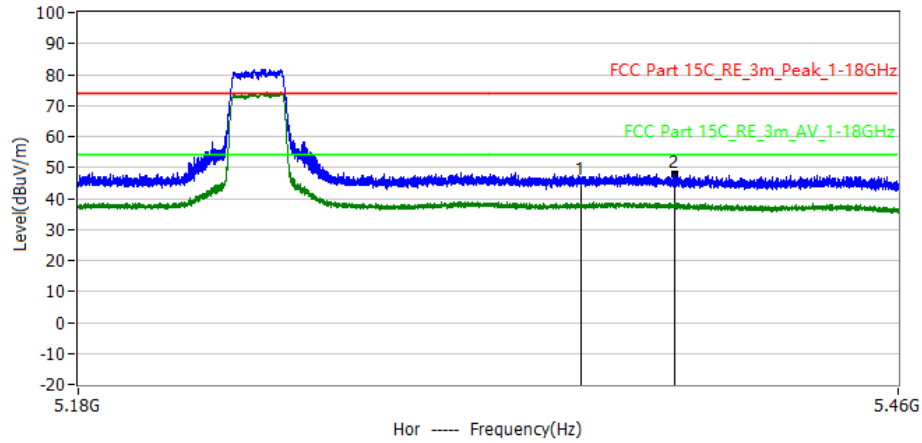
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 4.800GHz  | 74.00        | 50.70        | -23.30   | 56.69        | -5.99       | PK       | Ver   |
| 2*  | 5.150GHz  | 74.00        | 46.70        | -27.30   | 53.32        | -6.62       | PK       | Ver   |



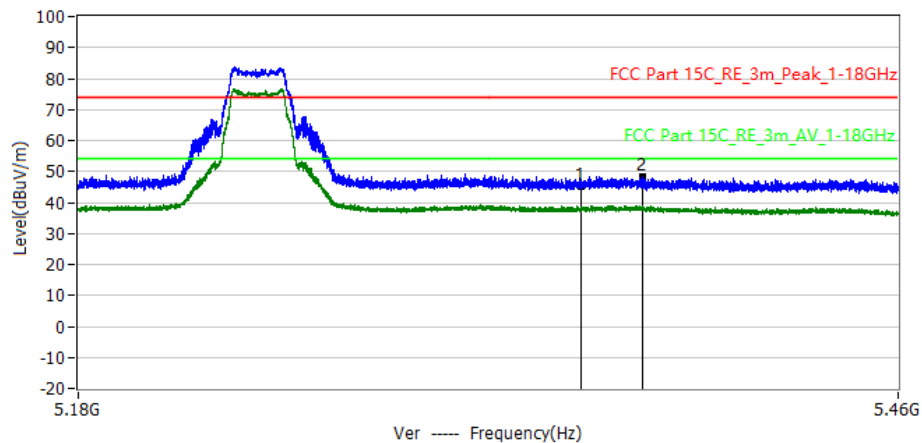
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 4.831GHz  | 74.00        | 49.83        | -24.17   | 55.84        | -6.01       | PK       | Hor   |
| 2*  | 5.150GHz  | 74.00        | 45.30        | -28.70   | 51.92        | -6.62       | PK       | Hor   |



|                                 |                       |
|---------------------------------|-----------------------|
| M/N: WF2190 Pro                 | Temperature: 25°C     |
| S/N:                            | Humidity: 45%RH       |
| Test Mode: MIMO_802.11ac20_5240 | Test Voltage: DC 5V   |
| Note:                           | Test Data: 2022-09-20 |



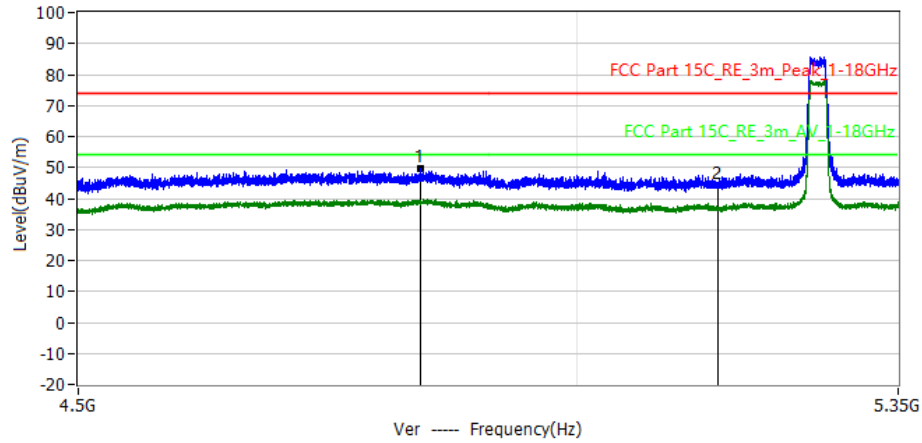
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 5.350GHz  | 74.00        | 45.80        | -28.20   | 53.06        | -7.26       | PK       | Hor   |
| 2*  | 5.382GHz  | 74.00        | 48.00        | -26.00   | 55.36        | -7.36       | PK       | Hor   |



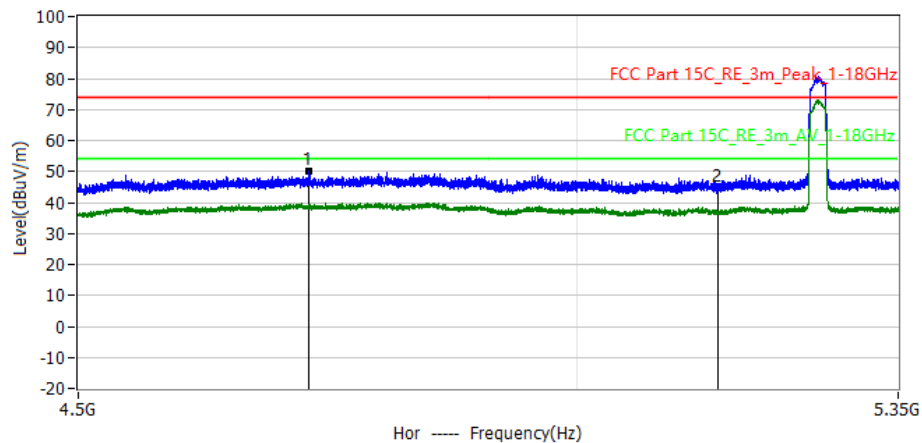
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 5.350GHz  | 74.00        | 45.30        | -28.70   | 52.56        | -7.26       | PK       | Ver   |
| 2*  | 5.371GHz  | 74.00        | 48.15        | -25.85   | 55.48        | -7.33       | PK       | Ver   |



|                                 |                       |
|---------------------------------|-----------------------|
| M/N: WF2190 Pro                 | Temperature: 25°C     |
| S/N:                            | Humidity: 45%RH       |
| Test Mode: MIMO_802.11ac20_5260 | Test Voltage: DC 5V   |
| Note:                           | Test Data: 2022-09-20 |



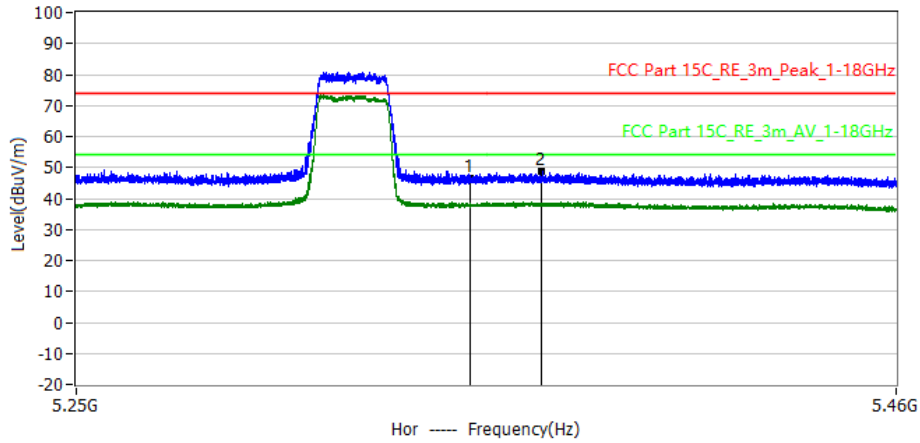
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 4.837GHz  | 74.00        | 49.46        | -24.54   | 55.47        | -6.01       | PK       | Ver   |
| 2*  | 5.150GHz  | 74.00        | 44.10        | -29.90   | 50.72        | -6.62       | PK       | Ver   |



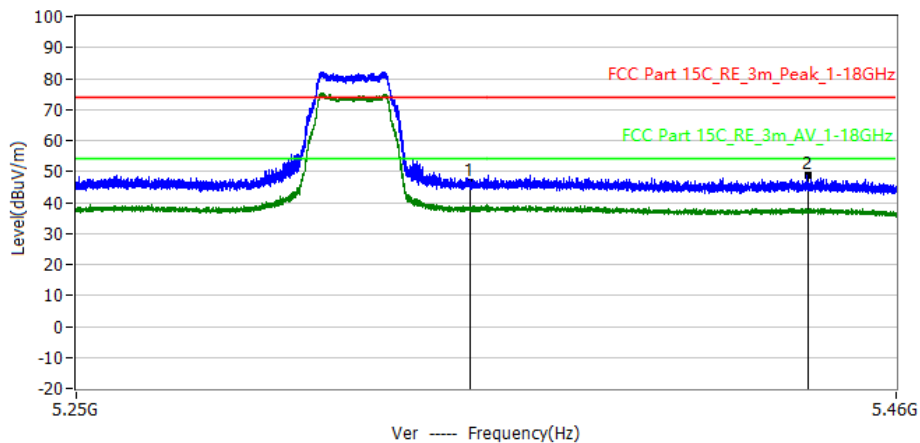
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 4.724GHz  | 74.00        | 50.24        | -23.76   | 56.17        | -5.93       | PK       | Hor   |
| 2*  | 5.150GHz  | 74.00        | 44.60        | -29.40   | 51.22        | -6.62       | PK       | Hor   |



|                                 |                       |
|---------------------------------|-----------------------|
| M/N: WF2190 Pro                 | Temperature: 25°C     |
| S/N:                            | Humidity: 45%RH       |
| Test Mode: MIMO_802.11ac20_5320 | Test Voltage: DC 5V   |
| Note:                           | Test Data: 2022-09-20 |



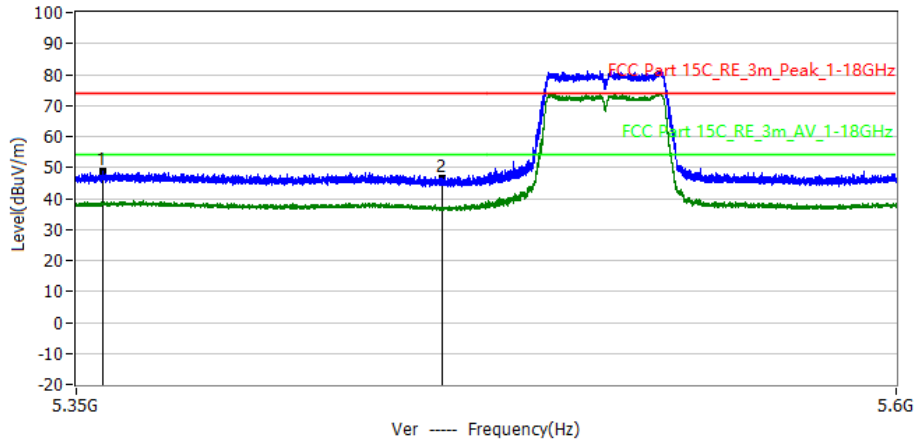
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 5.350GHz  | 74.00        | 46.60        | -27.40   | 53.86        | -7.26       | PK       | Hor   |
| 2*  | 5.368GHz  | 74.00        | 48.64        | -25.36   | 55.96        | -7.32       | PK       | Hor   |



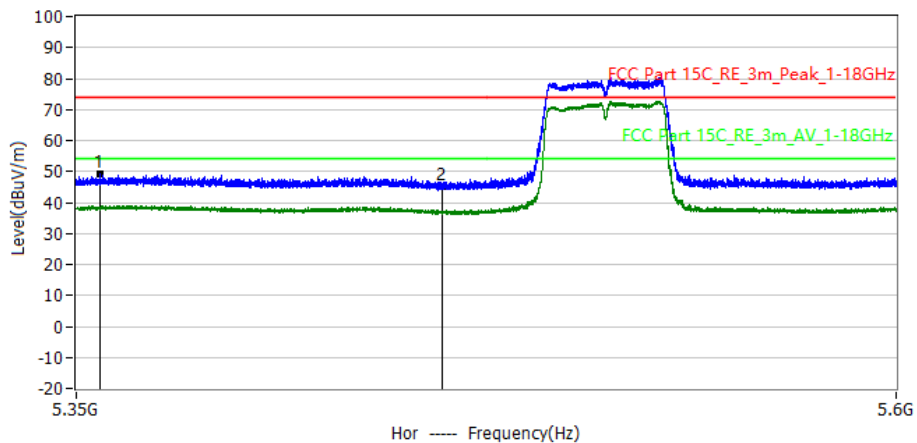
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 5.350GHz  | 74.00        | 46.50        | -27.50   | 53.76        | -7.26       | PK       | Ver   |
| 2*  | 5.437GHz  | 74.00        | 48.96        | -25.04   | 56.50        | -7.54       | PK       | Ver   |



|                                 |                       |
|---------------------------------|-----------------------|
| M/N: WF2190 Pro                 | Temperature: 25°C     |
| S/N:                            | Humidity: 45%RH       |
| Test Mode: MIMO_802.11ac80_5530 | Test Voltage: DC 5V   |
| Note:                           | Test Data: 2022-09-20 |



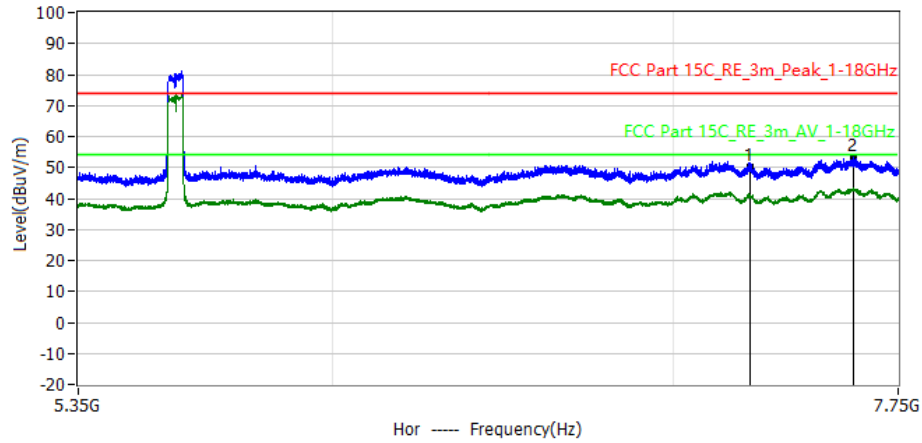
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 5.358GHz  | 74.00        | 48.62        | -25.38   | 55.90        | -7.28       | PK       | Ver   |
| 2*  | 5.460GHz  | 74.00        | 46.40        | -27.60   | 54.01        | -7.61       | PK       | Ver   |



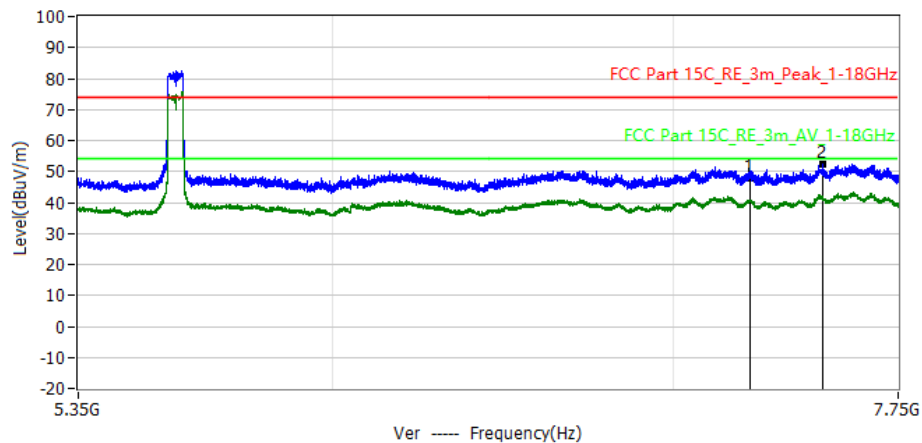
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 5.357GHz  | 74.00        | 49.21        | -24.79   | 56.49        | -7.28       | PK       | Hor   |
| 2*  | 5.460GHz  | 74.00        | 45.30        | -28.70   | 52.91        | -7.61       | PK       | Hor   |



|                                 |                       |
|---------------------------------|-----------------------|
| M/N: WF2190 Pro                 | Temperature: 25°C     |
| S/N:                            | Humidity: 45%RH       |
| Test Mode: MIMO_802.11ac80_5610 | Test Voltage: DC 5V   |
| Note:                           | Test Data: 2022-09-20 |



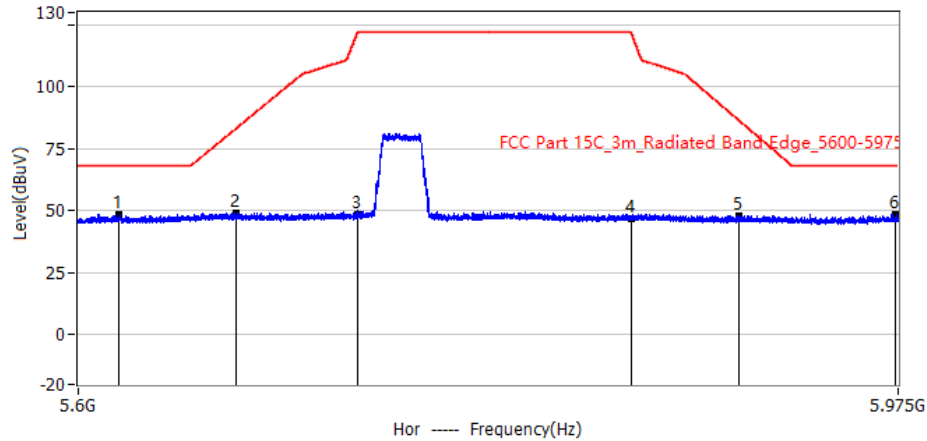
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 7.250GHz  | 74.00        | 49.90        | -24.10   | 54.89        | -4.99       | PK       | Hor   |
| 2*  | 7.597GHz  | 74.00        | 53.09        | -20.91   | 57.33        | -4.24       | PK       | Hor   |



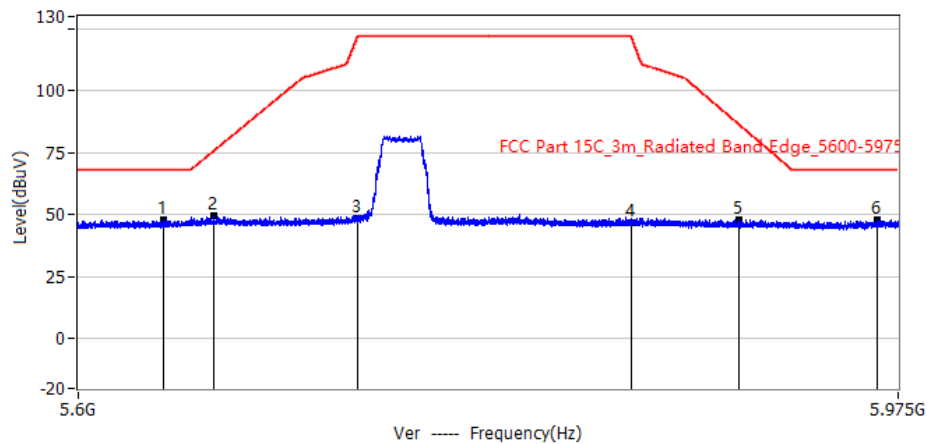
| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|-----------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1*  | 7.250GHz  | 74.00        | 48.00        | -26.00   | 52.99        | -4.99       | PK       | Ver   |
| 2*  | 7.491GHz  | 74.00        | 52.21        | -21.79   | 56.53        | -4.32       | PK       | Ver   |



|                                |                       |
|--------------------------------|-----------------------|
| M/N: WF2190 Pro                | Temperature: 25°C     |
| S/N:                           | Humidity: 45%RH       |
| Test Mode: MIMO_802.11n20_5745 | Test Voltage: DC 5V   |
| Note:                          | Test Data: 2022-09-20 |



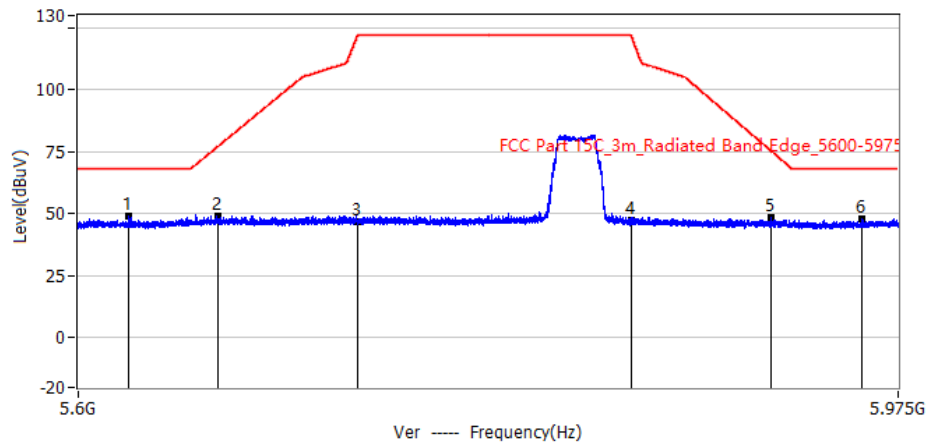
| No. | Frequency | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector | Polar |
|-----|-----------|------------|------------|----------|--------------|-----------|----------|-------|
| 1*  | 5.618GHz  | 68.20      | 48.50      | -19.70   | 56.19        | -7.69     | PK       | Hor   |
| 2*  | 5.670GHz  | 82.78      | 49.26      | -33.53   | 56.93        | -7.67     | PK       | Hor   |
| 3*  | 5.725GHz  | 122.20     | 48.30      | -73.90   | 55.95        | -7.65     | PK       | Hor   |
| 4*  | 5.850GHz  | 122.20     | 46.90      | -75.20   | 54.50        | -7.60     | PK       | Hor   |
| 5*  | 5.900GHz  | 86.52      | 48.14      | -38.38   | 55.72        | -7.58     | PK       | Hor   |
| 6*  | 5.974GHz  | 68.20      | 48.54      | -19.66   | 56.09        | -7.55     | PK       | Hor   |



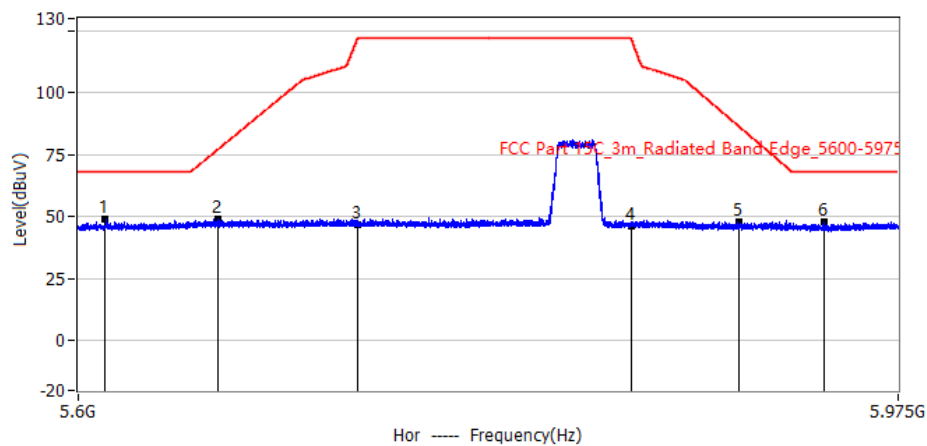
| No. | Frequency | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector | Polar |
|-----|-----------|------------|------------|----------|--------------|-----------|----------|-------|
| 1*  | 5.638GHz  | 68.20      | 47.92      | -20.28   | 55.60        | -7.68     | PK       | Ver   |
| 2*  | 5.660GHz  | 75.83      | 49.48      | -26.35   | 57.16        | -7.68     | PK       | Ver   |
| 3*  | 5.725GHz  | 122.20     | 48.60      | -73.60   | 56.25        | -7.65     | PK       | Ver   |
| 4*  | 5.850GHz  | 122.20     | 46.70      | -75.40   | 54.30        | -7.60     | PK       | Ver   |
| 5*  | 5.900GHz  | 86.38      | 48.21      | -38.18   | 55.79        | -7.58     | PK       | Ver   |
| 6*  | 5.965GHz  | 68.20      | 47.89      | -20.31   | 55.44        | -7.55     | PK       | Ver   |



|                                |                       |
|--------------------------------|-----------------------|
| M/N: WF2190 Pro                | Temperature: 25°C     |
| S/N:                           | Humidity: 45%RH       |
| Test Mode: MIMO_802.11n20_5825 | Test Voltage: DC 5V   |
| Note:                          | Test Data: 2022-09-20 |



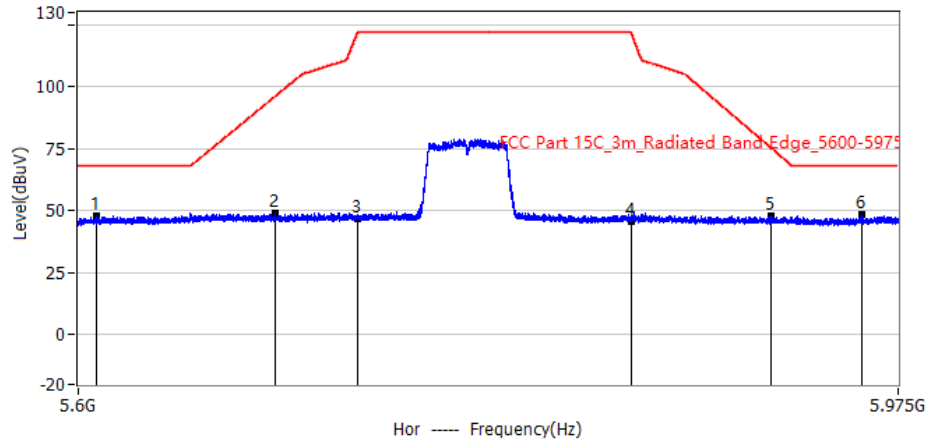
| No. | Frequency | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector | Polar |
|-----|-----------|------------|------------|----------|--------------|-----------|----------|-------|
| 1*  | 5.622GHz  | 68.20      | 48.87      | -19.33   | 56.56        | -7.69     | PK       | Ver   |
| 2*  | 5.662GHz  | 76.81      | 49.24      | -27.57   | 56.92        | -7.68     | PK       | Ver   |
| 3*  | 5.725GHz  | 122.20     | 46.70      | -75.50   | 54.35        | -7.65     | PK       | Ver   |
| 4*  | 5.850GHz  | 122.20     | 47.50      | -74.70   | 55.10        | -7.60     | PK       | Ver   |
| 5*  | 5.915GHz  | 75.61      | 48.30      | -27.31   | 55.87        | -7.57     | PK       | Ver   |
| 6*  | 5.958GHz  | 68.20      | 47.88      | -20.32   | 55.44        | -7.56     | PK       | Ver   |



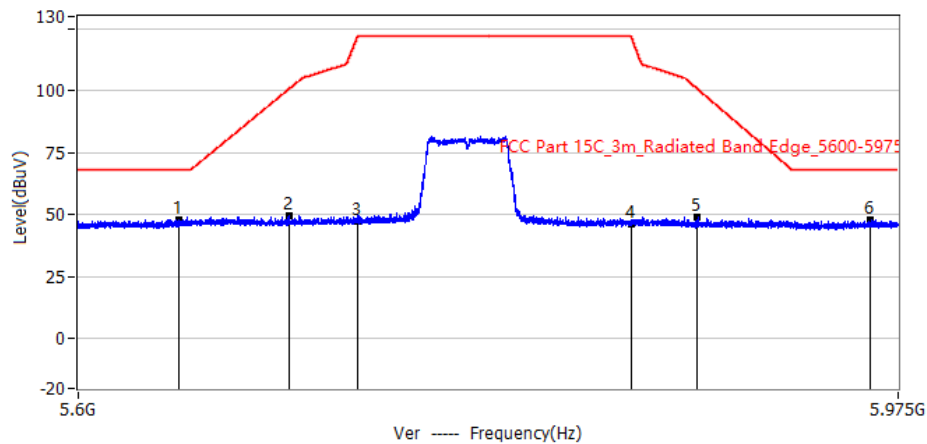
| No. | Frequency | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector | Polar |
|-----|-----------|------------|------------|----------|--------------|-----------|----------|-------|
| 1*  | 5.612GHz  | 68.20      | 48.91      | -19.29   | 56.61        | -7.70     | PK       | Hor   |
| 2*  | 5.662GHz  | 77.47      | 48.85      | -28.62   | 56.53        | -7.68     | PK       | Hor   |
| 3*  | 5.725GHz  | 122.20     | 46.80      | -75.40   | 54.45        | -7.65     | PK       | Hor   |
| 4*  | 5.850GHz  | 122.20     | 46.20      | -76.00   | 53.80        | -7.60     | PK       | Hor   |
| 5*  | 5.900GHz  | 86.80      | 48.01      | -38.79   | 55.59        | -7.58     | PK       | Hor   |
| 6*  | 5.940GHz  | 68.20      | 47.81      | -20.39   | 55.37        | -7.56     | PK       | Hor   |



|                                |                       |
|--------------------------------|-----------------------|
| M/N: WF2190 Pro                | Temperature: 25°C     |
| S/N:                           | Humidity: 45%RH       |
| Test Mode: MIMO_802.11n40_5755 | Test Voltage: DC 5V   |
| Note:                          | Test Data: 2022-09-20 |



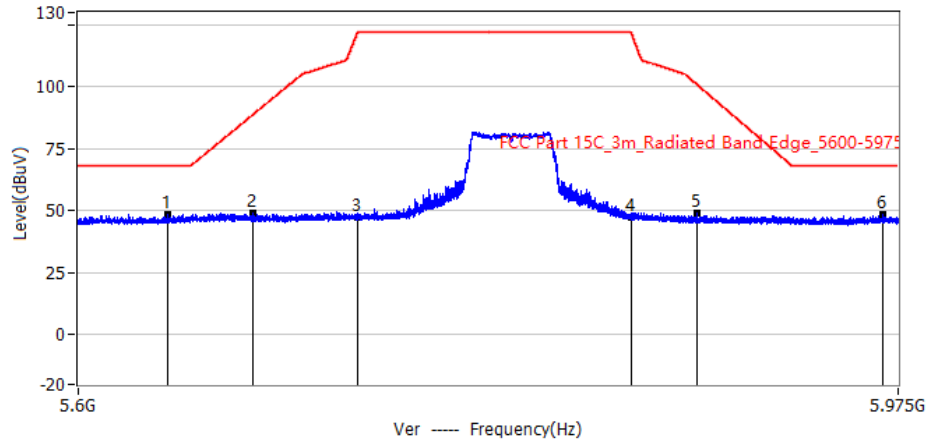
| No. | Frequency | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector | Polar |
|-----|-----------|------------|------------|----------|--------------|-----------|----------|-------|
| 1*  | 5.608GHz  | 68.20      | 47.90      | -20.30   | 55.60        | -7.70     | PK       | Hor   |
| 2*  | 5.688GHz  | 96.17      | 48.88      | -47.29   | 56.54        | -7.66     | PK       | Hor   |
| 3*  | 5.725GHz  | 122.20     | 47.10      | -75.10   | 54.75        | -7.65     | PK       | Hor   |
| 4*  | 5.850GHz  | 122.20     | 46.00      | -76.20   | 53.60        | -7.60     | PK       | Hor   |
| 5*  | 5.915GHz  | 75.57      | 48.21      | -27.36   | 55.78        | -7.57     | PK       | Hor   |
| 6*  | 5.958GHz  | 68.20      | 48.26      | -19.94   | 55.82        | -7.56     | PK       | Hor   |



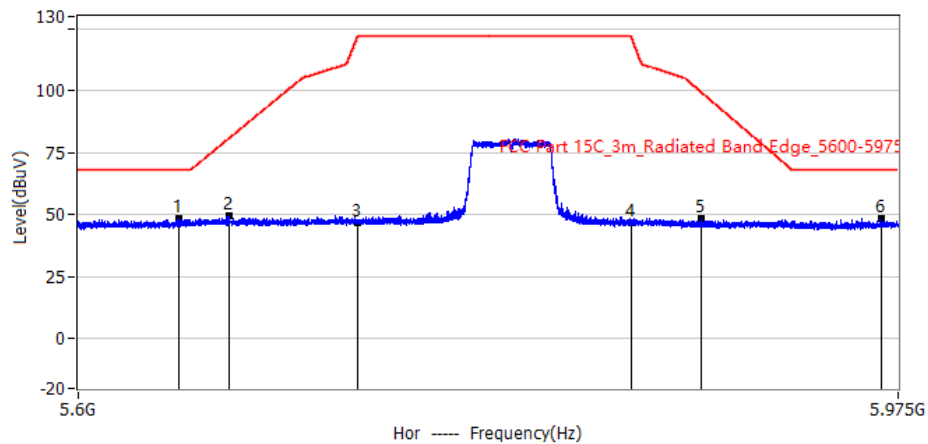
| No. | Frequency | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector | Polar |
|-----|-----------|------------|------------|----------|--------------|-----------|----------|-------|
| 1*  | 5.645GHz  | 68.20      | 47.93      | -20.27   | 55.61        | -7.68     | PK       | Ver   |
| 2*  | 5.694GHz  | 100.73     | 49.58      | -51.16   | 57.24        | -7.66     | PK       | Ver   |
| 3*  | 5.725GHz  | 122.20     | 47.40      | -74.80   | 55.05        | -7.65     | PK       | Ver   |
| 4*  | 5.850GHz  | 122.20     | 46.40      | -75.80   | 54.00        | -7.60     | PK       | Ver   |
| 5*  | 5.881GHz  | 100.42     | 48.91      | -51.51   | 56.50        | -7.59     | PK       | Ver   |
| 6*  | 5.962GHz  | 68.20      | 47.79      | -20.41   | 55.35        | -7.56     | PK       | Ver   |



|                                |                       |
|--------------------------------|-----------------------|
| M/N: WF2190 Pro                | Temperature: 25°C     |
| S/N:                           | Humidity: 45%RH       |
| Test Mode: MIMO_802.11n40_5795 | Test Voltage: DC 5V   |
| Note:                          | Test Data: 2022-09-20 |



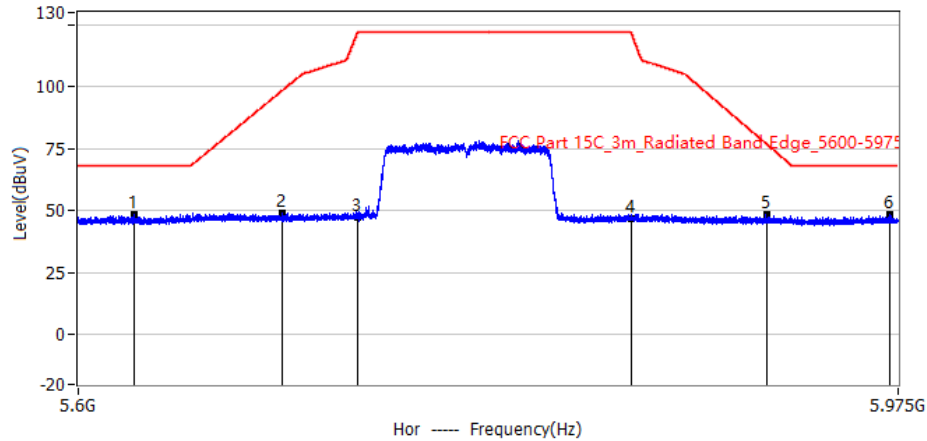
| No. | Frequency | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector | Polar |
|-----|-----------|------------|------------|----------|--------------|-----------|----------|-------|
| 1*  | 5.640GHz  | 68.20      | 48.76      | -19.44   | 56.44        | -7.68     | PK       | Ver   |
| 2*  | 5.678GHz  | 88.82      | 49.24      | -39.58   | 56.91        | -7.67     | PK       | Ver   |
| 3*  | 5.725GHz  | 122.20     | 47.30      | -74.90   | 54.95        | -7.65     | PK       | Ver   |
| 4*  | 5.850GHz  | 122.20     | 47.50      | -74.70   | 55.10        | -7.60     | PK       | Ver   |
| 5*  | 5.881GHz  | 100.98     | 48.96      | -52.02   | 56.55        | -7.59     | PK       | Ver   |
| 6*  | 5.968GHz  | 68.20      | 48.30      | -19.90   | 55.85        | -7.55     | PK       | Ver   |



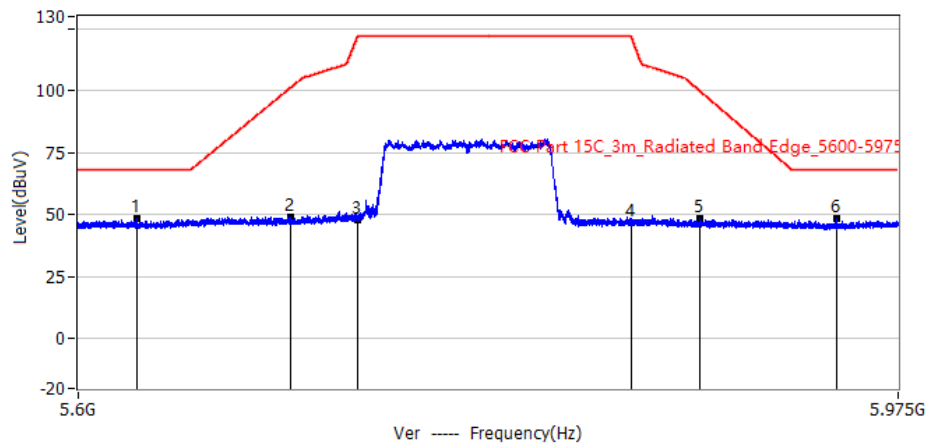
| No. | Frequency | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector | Polar |
|-----|-----------|------------|------------|----------|--------------|-----------|----------|-------|
| 1*  | 5.645GHz  | 68.20      | 48.46      | -19.74   | 56.14        | -7.68     | PK       | Hor   |
| 2*  | 5.667GHz  | 81.01      | 49.47      | -31.54   | 57.14        | -7.67     | PK       | Hor   |
| 3*  | 5.725GHz  | 122.20     | 47.10      | -75.10   | 54.75        | -7.65     | PK       | Hor   |
| 4*  | 5.850GHz  | 122.20     | 46.60      | -75.60   | 54.20        | -7.60     | PK       | Hor   |
| 5*  | 5.883GHz  | 99.34      | 48.47      | -50.87   | 56.06        | -7.59     | PK       | Hor   |
| 6*  | 5.967GHz  | 68.20      | 48.52      | -19.68   | 56.07        | -7.55     | PK       | Hor   |



|                                 |                       |
|---------------------------------|-----------------------|
| M/N: WF2190 Pro                 | Temperature: 25°C     |
| S/N:                            | Humidity: 45%RH       |
| Test Mode: MIMO_802.11ac80_5775 | Test Voltage: DC 5V   |
| Note:                           | Test Data: 2022-09-20 |



| No. | Frequency | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector | Polar |
|-----|-----------|------------|------------|----------|--------------|-----------|----------|-------|
| 1*  | 5.625GHz  | 68.20      | 48.63      | -19.57   | 56.32        | -7.69     | PK       | Hor   |
| 2*  | 5.691GHz  | 98.34      | 49.24      | -49.10   | 56.90        | -7.66     | PK       | Hor   |
| 3*  | 5.725GHz  | 122.20     | 47.40      | -74.80   | 55.05        | -7.65     | PK       | Hor   |
| 4*  | 5.850GHz  | 122.20     | 46.70      | -75.50   | 54.30        | -7.60     | PK       | Hor   |
| 5*  | 5.913GHz  | 77.20      | 48.51      | -28.70   | 56.08        | -7.57     | PK       | Hor   |
| 6*  | 5.971GHz  | 68.20      | 48.42      | -19.78   | 55.97        | -7.55     | PK       | Hor   |



| No. | Frequency | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector | Polar |
|-----|-----------|------------|------------|----------|--------------|-----------|----------|-------|
| 1*  | 5.626GHz  | 68.20      | 48.49      | -19.71   | 56.18        | -7.69     | PK       | Ver   |
| 2*  | 5.695GHz  | 101.25     | 49.27      | -51.98   | 56.93        | -7.66     | PK       | Ver   |
| 3*  | 5.725GHz  | 122.20     | 48.10      | -74.10   | 55.75        | -7.65     | PK       | Ver   |
| 4*  | 5.850GHz  | 122.20     | 47.10      | -75.10   | 54.70        | -7.60     | PK       | Ver   |
| 5*  | 5.882GHz  | 100.00     | 48.68      | -51.33   | 56.27        | -7.59     | PK       | Ver   |
| 6*  | 5.946GHz  | 68.20      | 48.50      | -19.70   | 56.06        | -7.56     | PK       | Ver   |



## 4. POWER SPECTRAL DENSITY TEST

### 4.1 LIMIT

1. For mobile and portable client devices in the 5.15-5.25 GHz band, , the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500kHz band. If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in Db that the directional gain of the antenna exceeds 6 dBi.

### 4.2 TEST PROCEDURE

The setting follows Method SA-1 of FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

For devices operating in the band, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (*i.e.*, 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth ( $< 1$  MHz, or  $< 500$  kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set  $RBW \geq 1/T$ , where  $T$  is defined in section II.B.I.a).
- b) Set  $VBW \geq 3$  RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10 \log (500\text{kHz}/RBW)$  to the measured result, whereas  $RBW (< 500 \text{ kHz})$  is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add  $10 \log (1\text{MHz}/RBW)$  to the measured result, whereas  $RBW (< 1 \text{ MHz})$  is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since  $RBW=100 \text{ KHZ}$  is available on nearly all spectrum analyzers.



#### 4.3 DEVIATION FROM STANDARD

No deviation.

#### 4.4 TEST SETUP



#### 4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 4.5 EUT OPERATION CONDITIONS

For the measurement records, refer to the appendix I.



## 5. BANDWIDTH MEASUREMENT

### 5.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT

The following procedure shall be used for measuring 26 bandwidth.

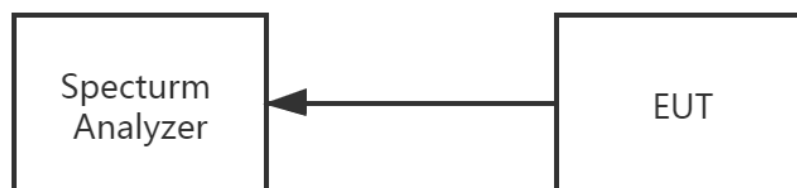
#### 5.1.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW  $\geq$  RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

#### 5.1.2 LIMIT

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 5.1.5 TEST RESULTS

FOR THE MEASUREMENT RECORDS, REFER TO THE APPENDIX I.



## 5.2 OCCUPIED BANDWIDTH ( 99%) TEST APPLIED PROCEDURES / LIMIT

The following procedure shall be used for measuring (99 %) power bandwidth.

### 5.2.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW  $\geq 3 \cdot$  RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

### 5.2.2 LIMIT

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

### 5.2.3 TEST SETUP



### 5.2.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 5.2.5 TEST RESULTS

For the measurement records, refer to the appendix I.



### 5.3 MINIMUM EMISSION BANDWIDTH(6 DB) PROCEDURES / LIMIT

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth.

#### 5.3.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.
  - a) Set RBW = 100 kHz.
  - b) Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
  - c) Detector = Peak.
  - d) Trace mode = max hold.
  - e) Sweep = auto couple.
  - f) Allow the trace to stabilize.
  - g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 5.3.2 DEVIATION FROM STANDARD

No deviation.

#### 5.3.3 TEST SETUP



#### 5.3.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 5.3.5 TEST RESULTS

**FOR THE MEASUREMENT RECORDS, REFER TO THE APPENDIX I.**



## 6. MAXIMUM CONDUCTED OUTPUT POWER

### 6.1 LIMIT

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz, if transmitting antennas of directional gain greater than 6 dBi are used.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used.

| FCC Part15 (15.407) , Subpart E |                   |                                                                                       |                        |        |
|---------------------------------|-------------------|---------------------------------------------------------------------------------------|------------------------|--------|
| Section                         | Test Item         | Limit                                                                                 | Frequency Range (MHz)  | Result |
| 15.407(a) (1) (iv)              | Peak Output Power | 0.25 watt                                                                             | 5150-5250              | PASS   |
|                                 |                   | The lesser of 250 mW or $11 \text{ dBm} + 10 \log (26 \text{ dB emission bandwidth})$ | 5250-5350<br>5470-5725 |        |
| 15.407(a) (3)                   |                   | 1 watt                                                                                | 5725-5825              |        |

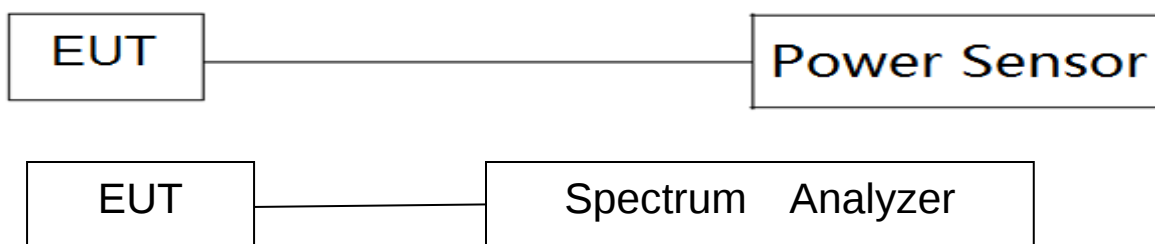
### 6.2 TEST PROCEDURE

The EUT was directly connected to the Power Sensor&PC

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

### 6.6 TEST RESULTS

For the measurement records, refer to the appendix I.



## **7. AUTOMATICALLY DISCONTINUE TRANSMISSION**

### **7.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION**

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

### **7.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION**

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission



## **8. ANTENNA REQUIREMENT**

### **8.1 STANDARD REQUIREMENT**

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### **8.2 EUT ANTENNA**

The EUT antenna is Integral Antenna. It comply with the standard requirement.



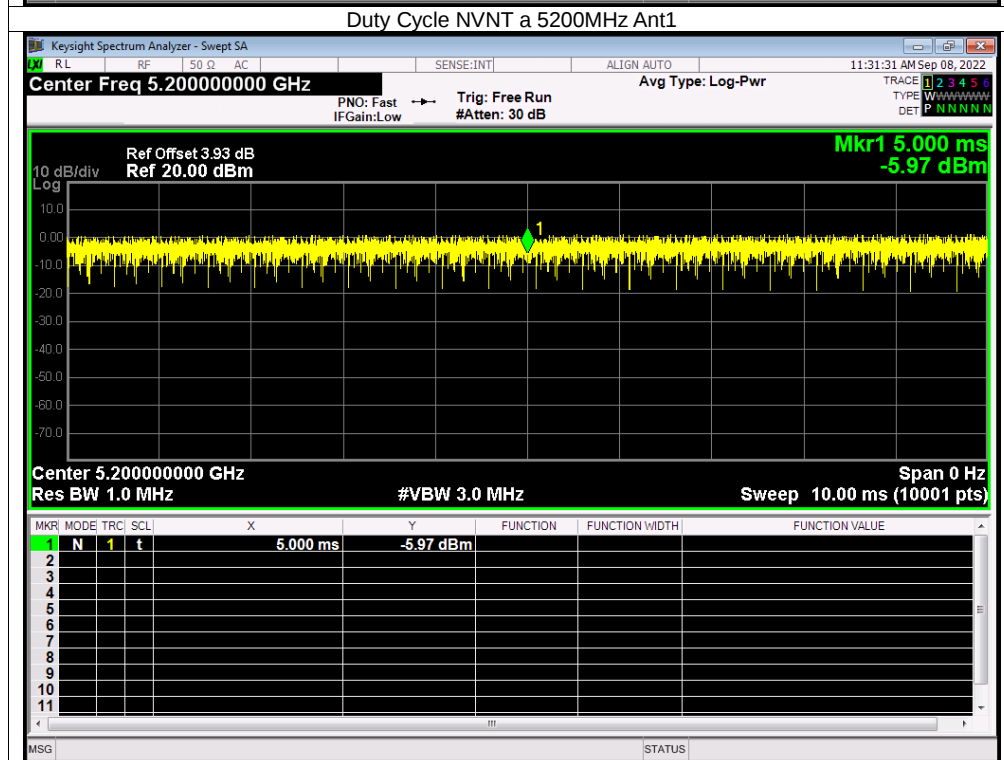
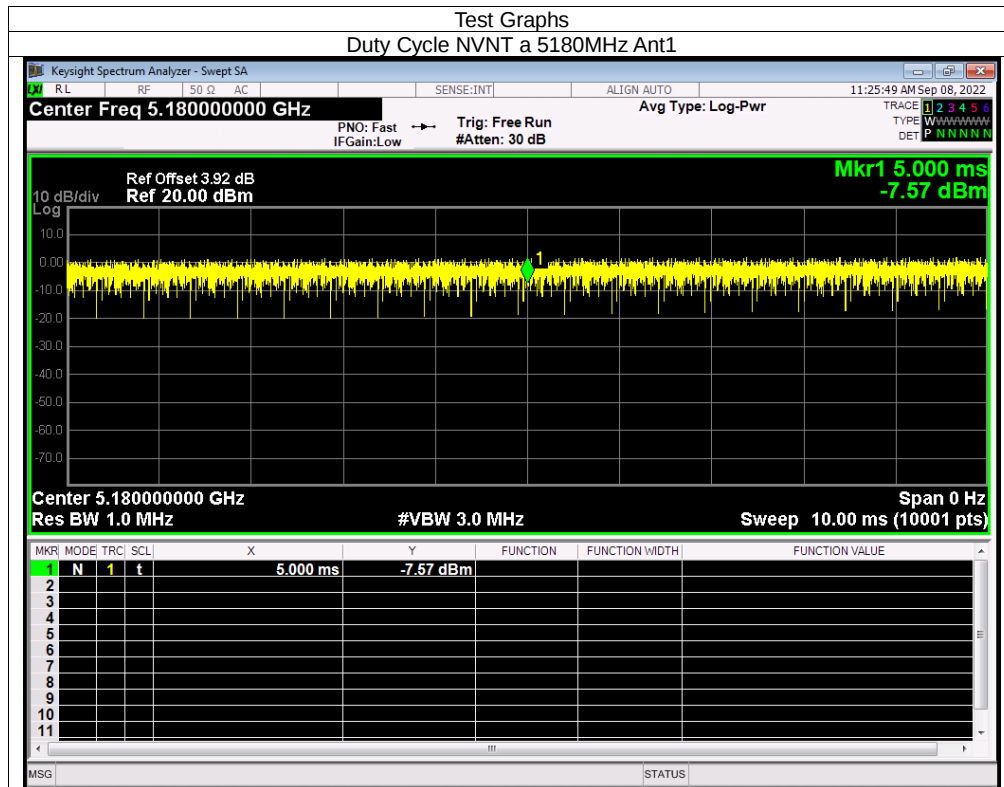
## APPENDIX I:TEST RESULTS

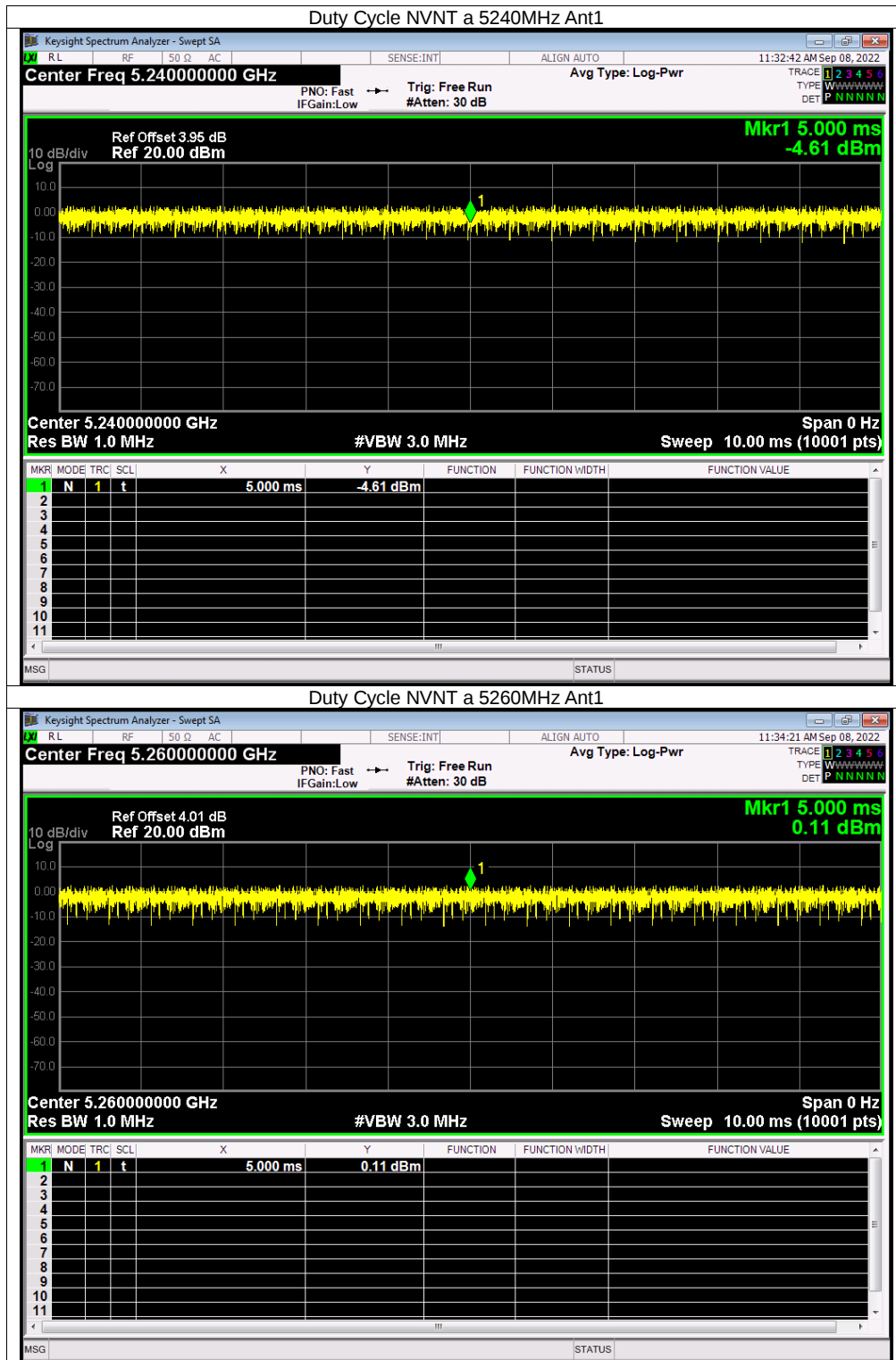
### DUTY CYCLE

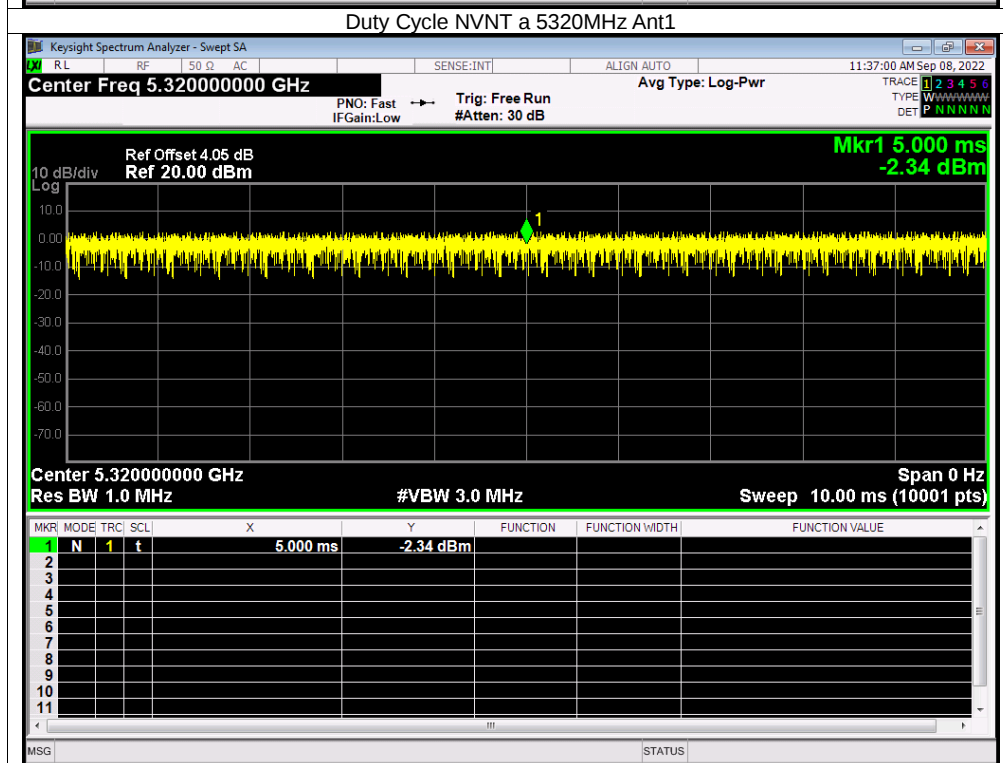
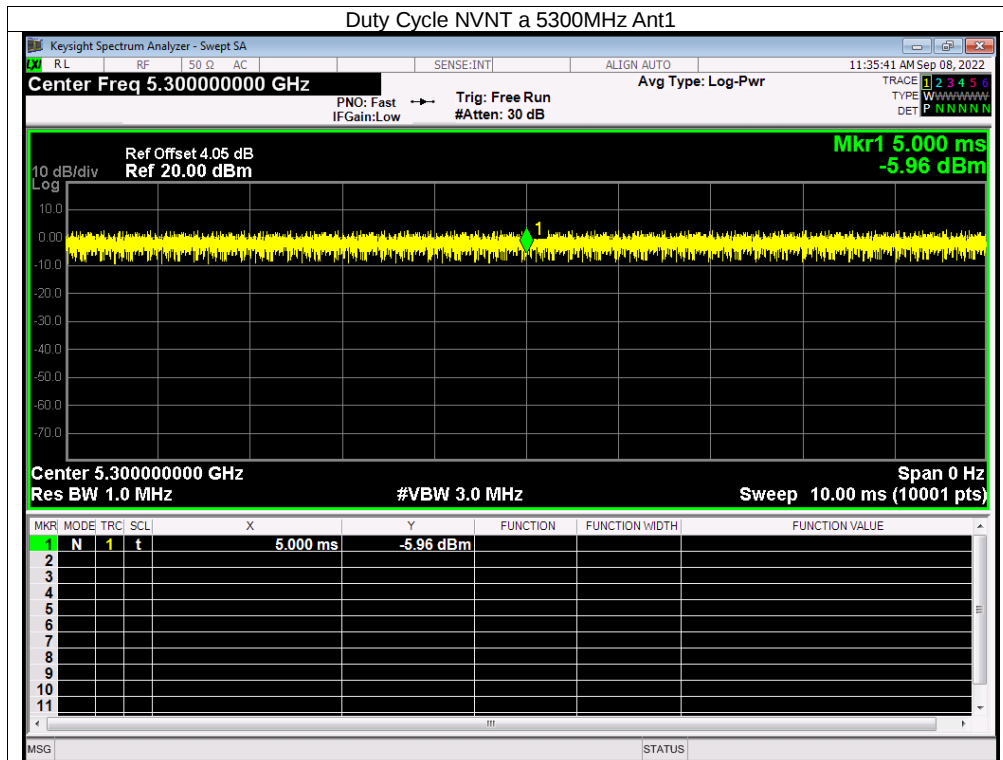
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | a    | 5180            | Ant1    | 100            | 0                      | 0         |
| NVNT      | a    | 5200            | Ant1    | 100            | 0                      | 0         |
| NVNT      | a    | 5240            | Ant1    | 100            | 0                      | 0         |
| NVNT      | a    | 5260            | Ant1    | 100            | 0                      | 0         |
| NVNT      | a    | 5300            | Ant1    | 100            | 0                      | 0         |
| NVNT      | a    | 5320            | Ant1    | 100            | 0                      | 0         |
| NVNT      | a    | 5500            | Ant1    | 100            | 0                      | 0         |
| NVNT      | a    | 5580            | Ant1    | 100            | 0                      | 0         |
| NVNT      | a    | 5700            | Ant1    | 100            | 0                      | 0         |
| NVNT      | a    | 5745            | Ant1    | 100            | 0                      | 0         |
| NVNT      | a    | 5785            | Ant1    | 100            | 0                      | 0         |
| NVNT      | a    | 5825            | Ant1    | 100            | 0                      | 0         |
| NVNT      | a    | 5180            | Ant2    | 100            | 0                      | 0         |
| NVNT      | a    | 5200            | Ant2    | 100            | 0                      | 0         |
| NVNT      | a    | 5240            | Ant2    | 100            | 0                      | 0         |
| NVNT      | a    | 5260            | Ant2    | 100            | 0                      | 0         |
| NVNT      | a    | 5300            | Ant2    | 100            | 0                      | 0         |
| NVNT      | a    | 5320            | Ant2    | 100            | 0                      | 0         |
| NVNT      | a    | 5500            | Ant2    | 100            | 0                      | 0         |
| NVNT      | a    | 5580            | Ant2    | 100            | 0                      | 0         |
| NVNT      | a    | 5700            | Ant2    | 100            | 0                      | 0         |
| NVNT      | a    | 5745            | Ant2    | 100            | 0                      | 0         |
| NVNT      | a    | 5785            | Ant2    | 100            | 0                      | 0         |
| NVNT      | a    | 5825            | Ant2    | 100            | 0                      | 0         |
| NVNT      | ac20 | 5180            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac20 | 5200            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac20 | 5240            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac20 | 5260            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac20 | 5300            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac20 | 5320            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac20 | 5500            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac20 | 5580            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac20 | 5700            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac20 | 5745            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac20 | 5785            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac20 | 5825            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac40 | 5190            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac40 | 5230            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac40 | 5270            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac40 | 5310            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac40 | 5510            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac40 | 5550            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac40 | 5670            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac40 | 5755            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac40 | 5795            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac80 | 5210            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac80 | 5290            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac80 | 5530            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac80 | 5610            | Sum     | 100            | 0                      | 0         |
| NVNT      | ac80 | 5775            | Sum     | 100            | 0                      | 0         |
| NVNT      | n20  | 5180            | Sum     | 100            | 0                      | 0         |
| NVNT      | n20  | 5200            | Sum     | 100            | 0                      | 0         |
| NVNT      | n20  | 5240            | Sum     | 100            | 0                      | 0         |
| NVNT      | n20  | 5260            | Sum     | 100            | 0                      | 0         |
| NVNT      | n20  | 5300            | Sum     | 100            | 0                      | 0         |

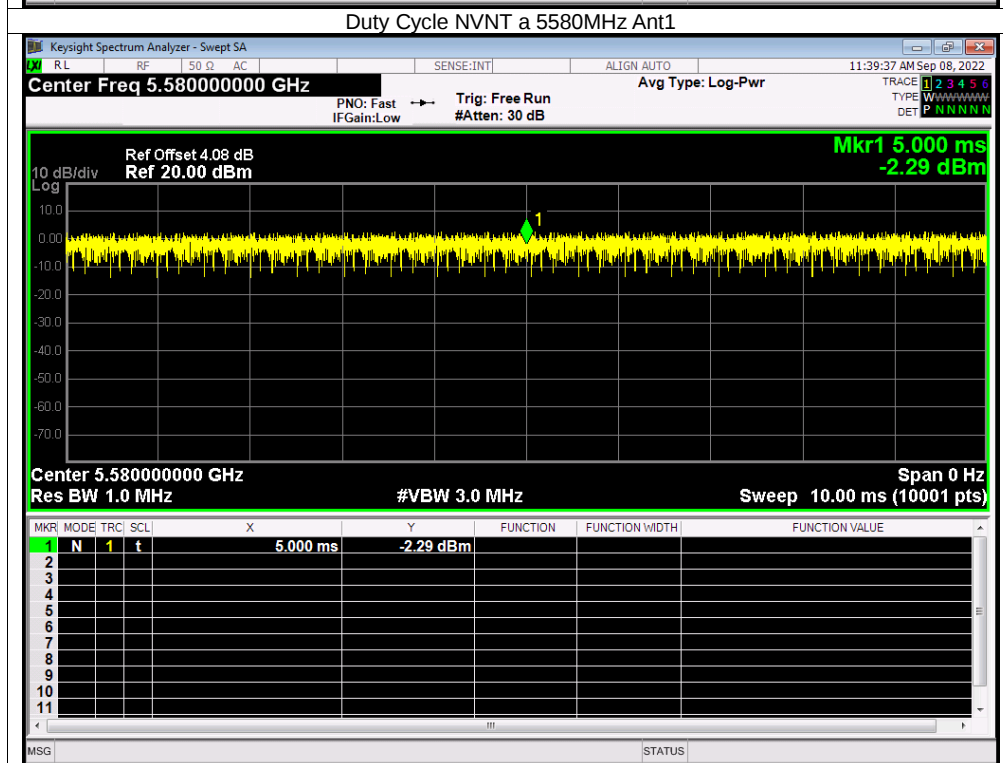
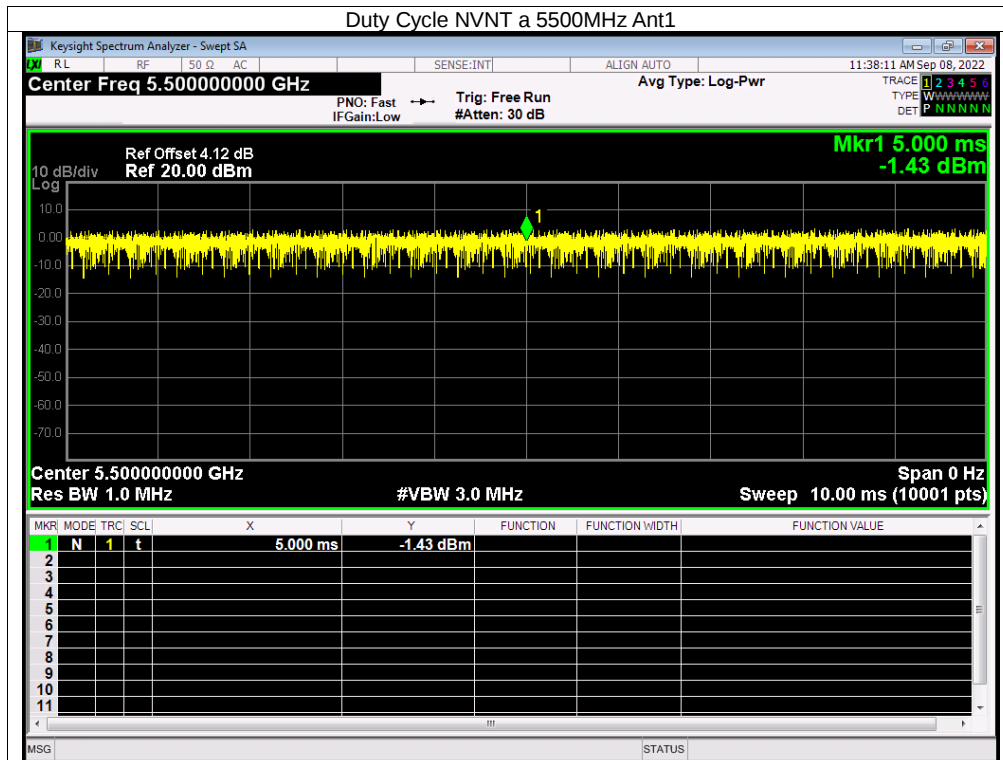


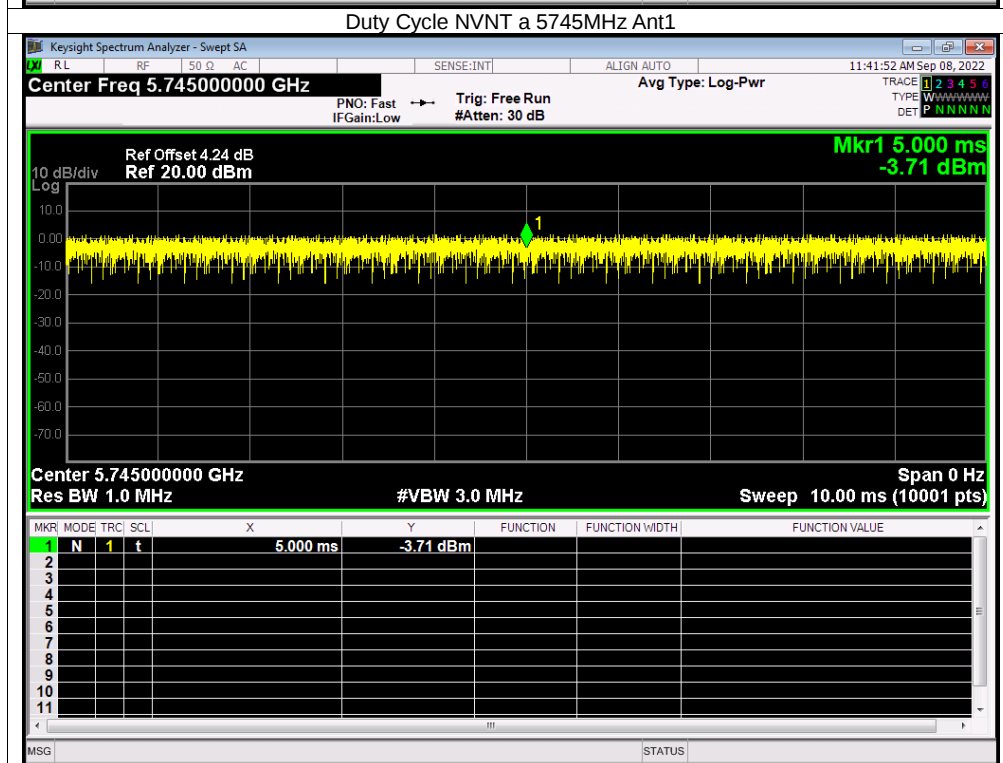
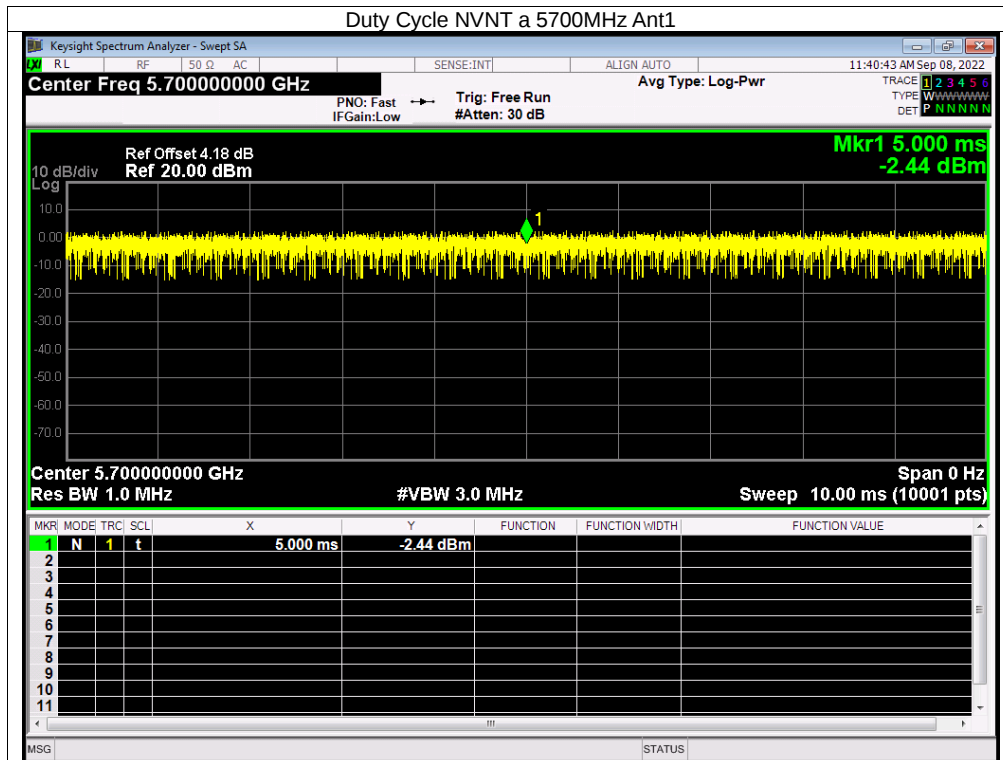
|      |     |      |     |     |   |   |
|------|-----|------|-----|-----|---|---|
| NVNT | n20 | 5320 | Sum | 100 | 0 | 0 |
| NVNT | n20 | 5500 | Sum | 100 | 0 | 0 |
| NVNT | n20 | 5580 | Sum | 100 | 0 | 0 |
| NVNT | n20 | 5700 | Sum | 100 | 0 | 0 |
| NVNT | n20 | 5745 | Sum | 100 | 0 | 0 |
| NVNT | n20 | 5785 | Sum | 100 | 0 | 0 |
| NVNT | n20 | 5825 | Sum | 100 | 0 | 0 |
| NVNT | n40 | 5190 | Sum | 100 | 0 | 0 |
| NVNT | n40 | 5230 | Sum | 100 | 0 | 0 |
| NVNT | n40 | 5270 | Sum | 100 | 0 | 0 |
| NVNT | n40 | 5310 | Sum | 100 | 0 | 0 |
| NVNT | n40 | 5510 | Sum | 100 | 0 | 0 |
| NVNT | n40 | 5550 | Sum | 100 | 0 | 0 |
| NVNT | n40 | 5670 | Sum | 100 | 0 | 0 |
| NVNT | n40 | 5755 | Sum | 100 | 0 | 0 |
| NVNT | n40 | 5795 | Sum | 100 | 0 | 0 |

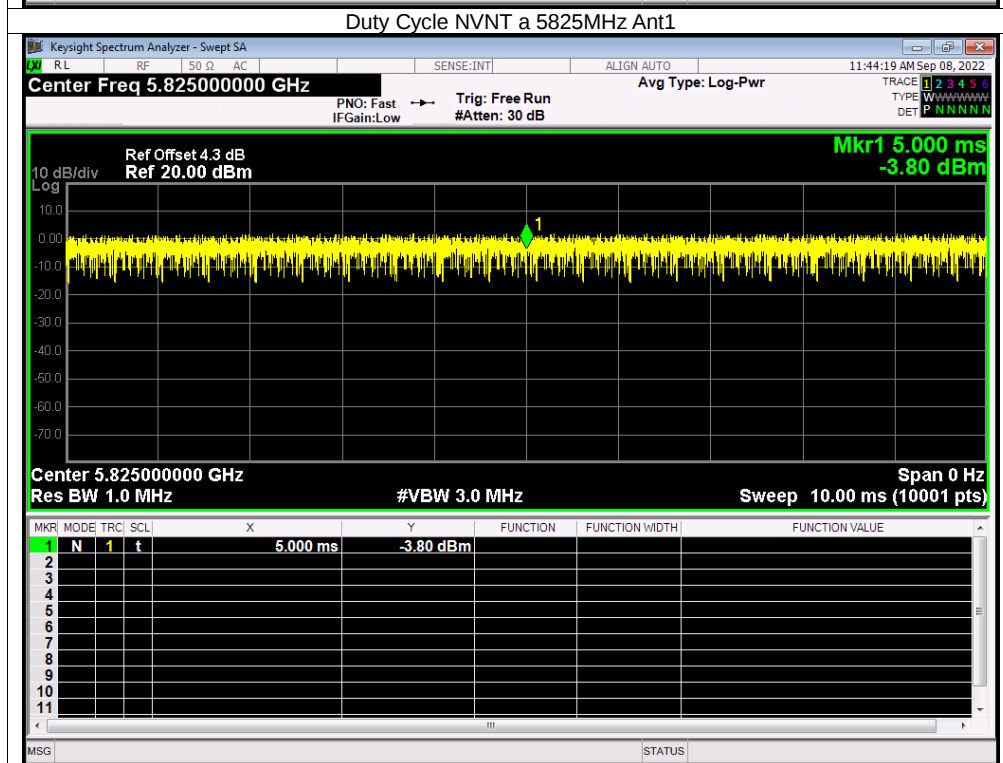
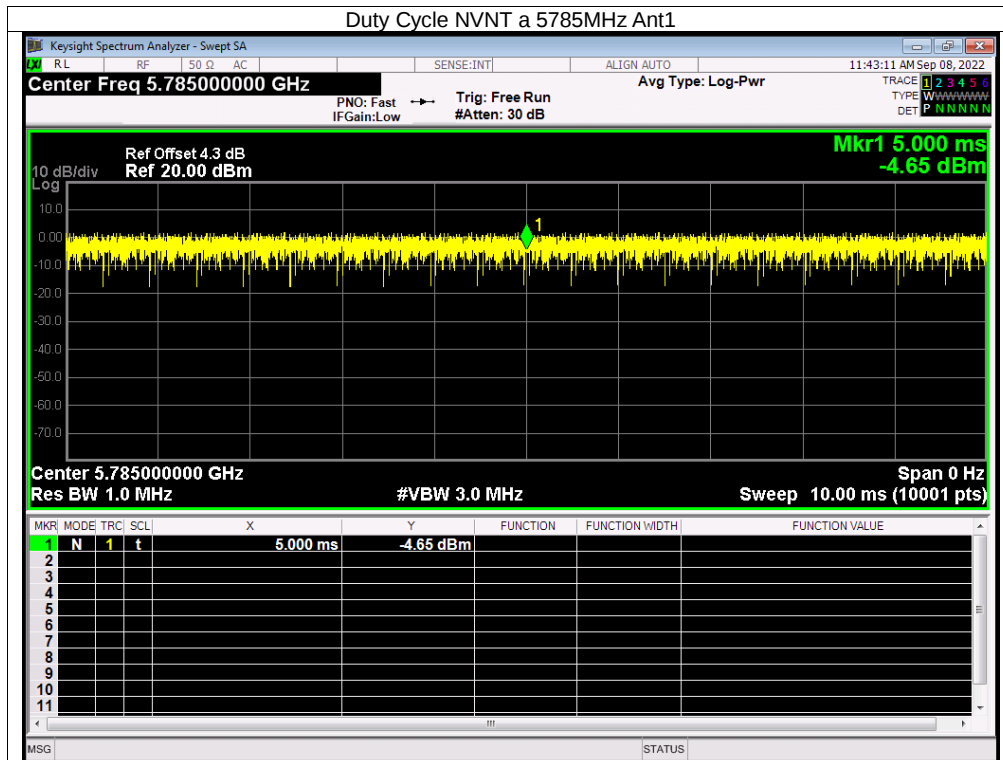


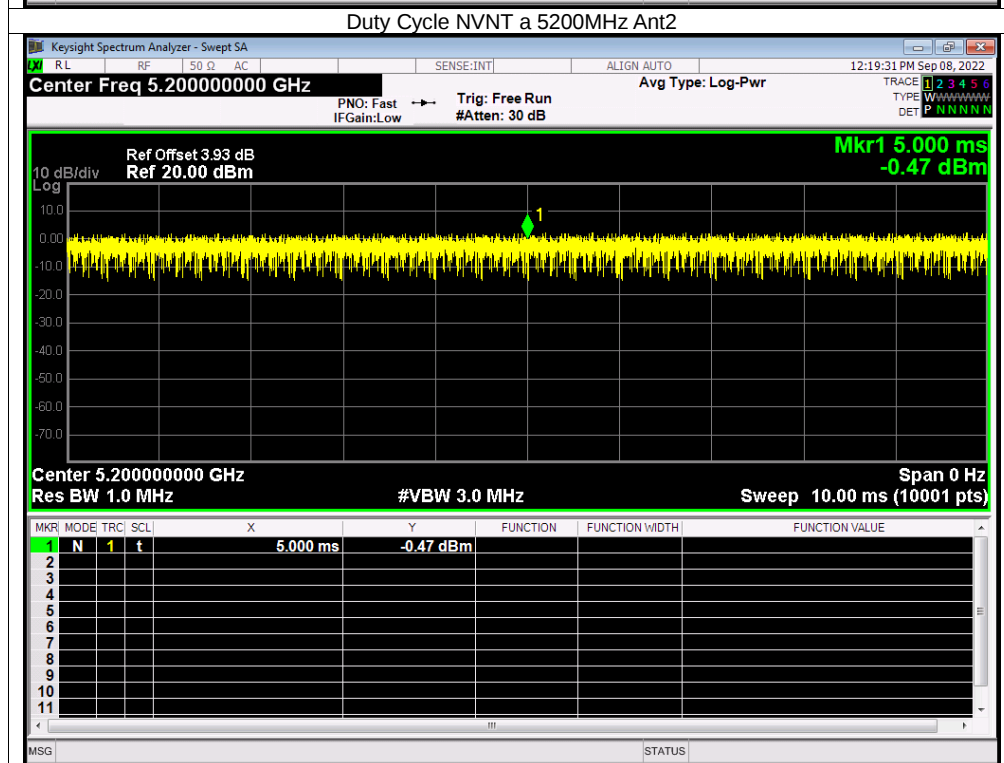
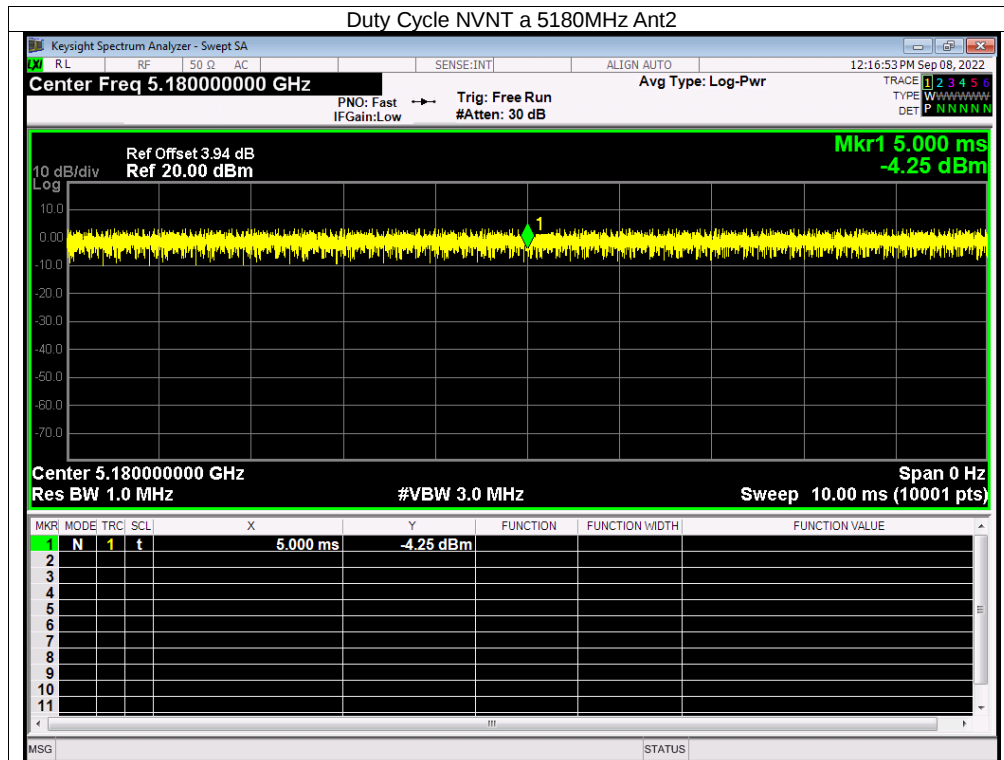


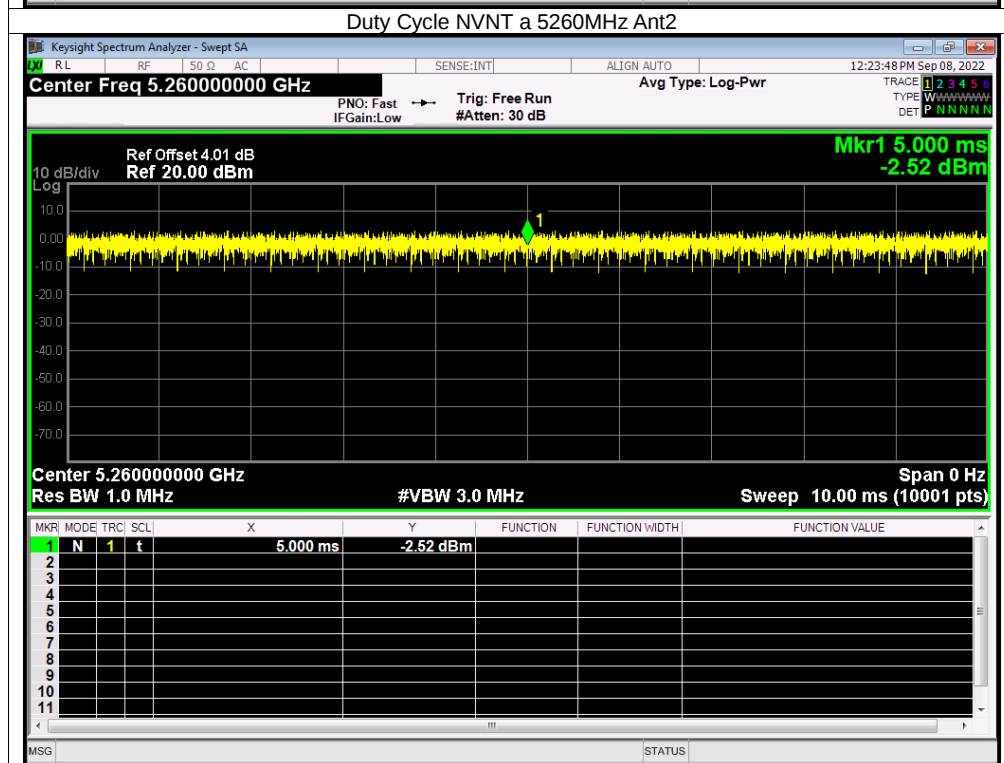
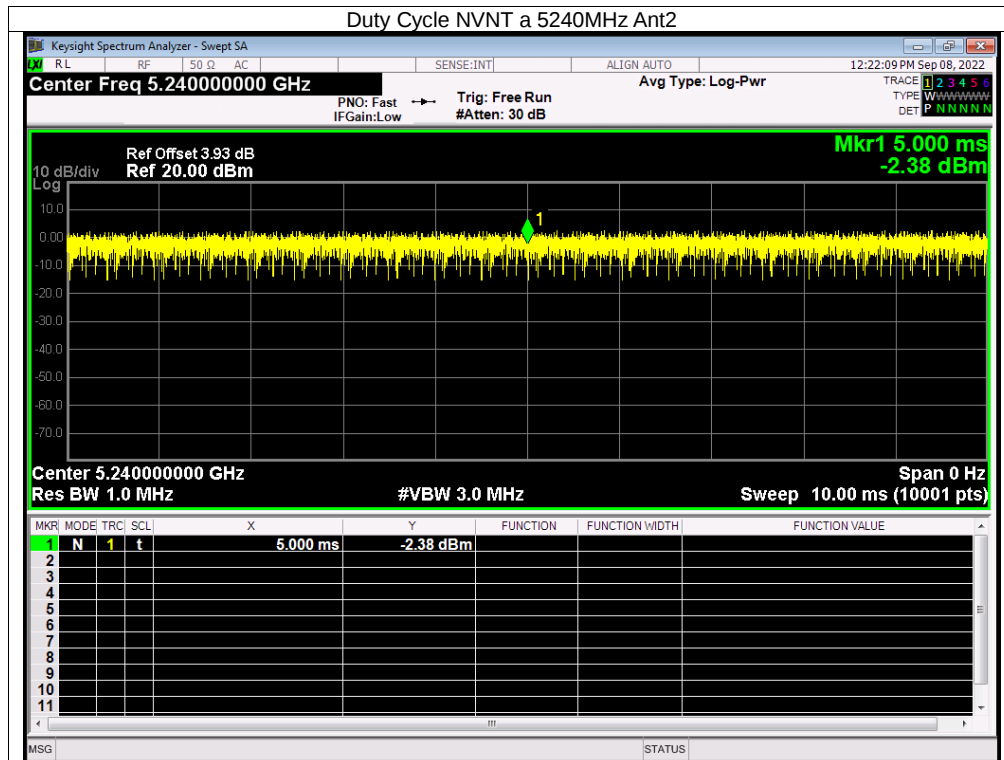


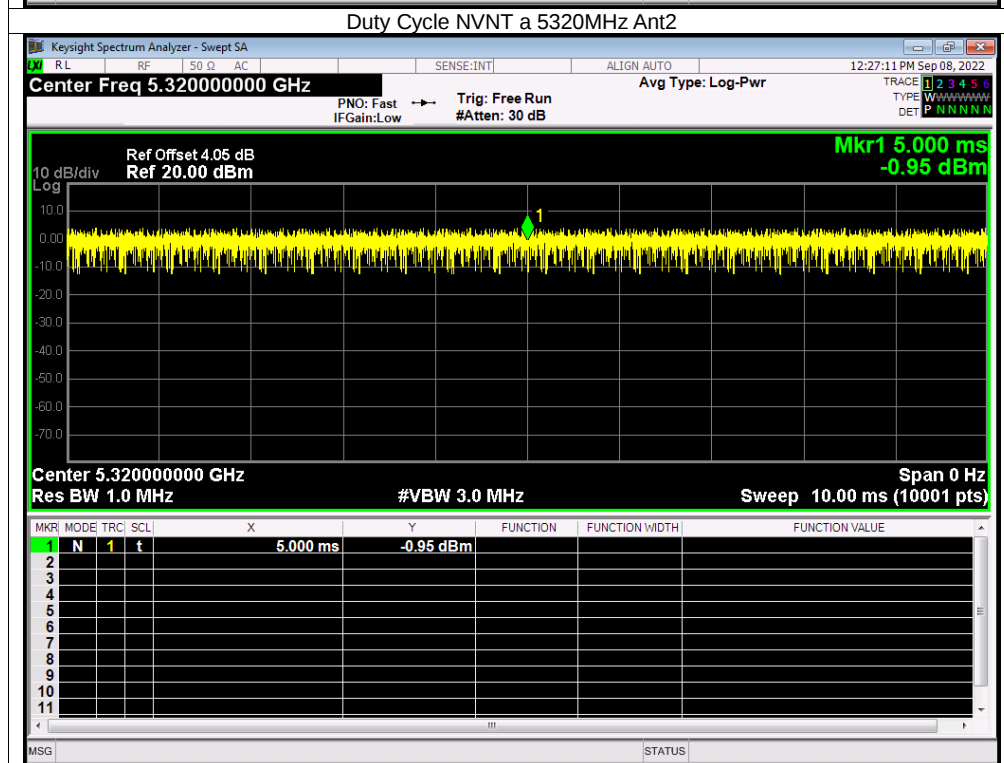
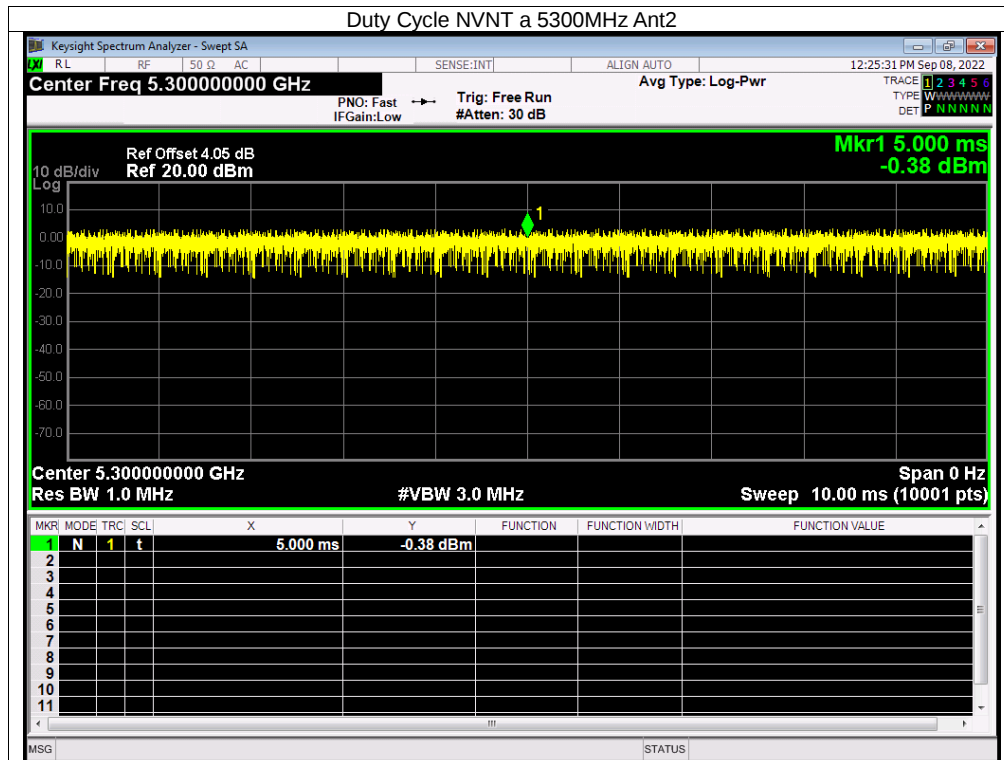


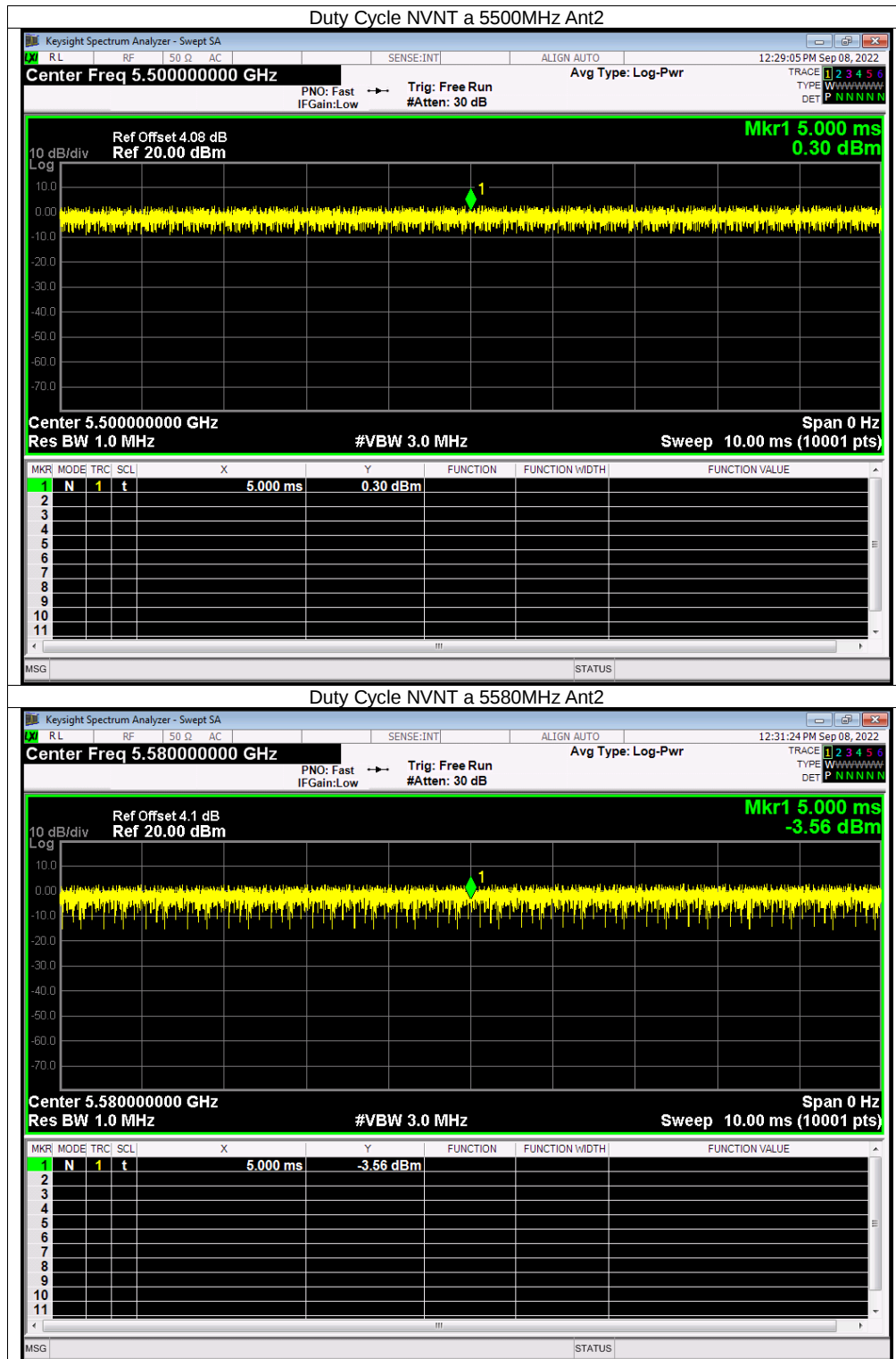


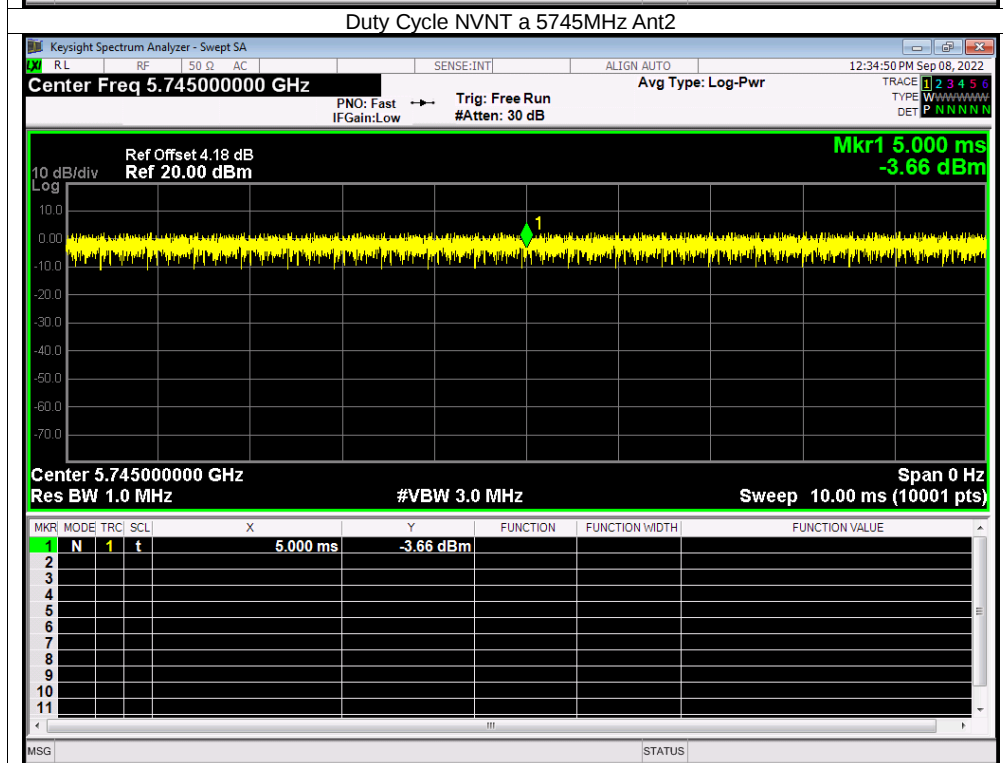
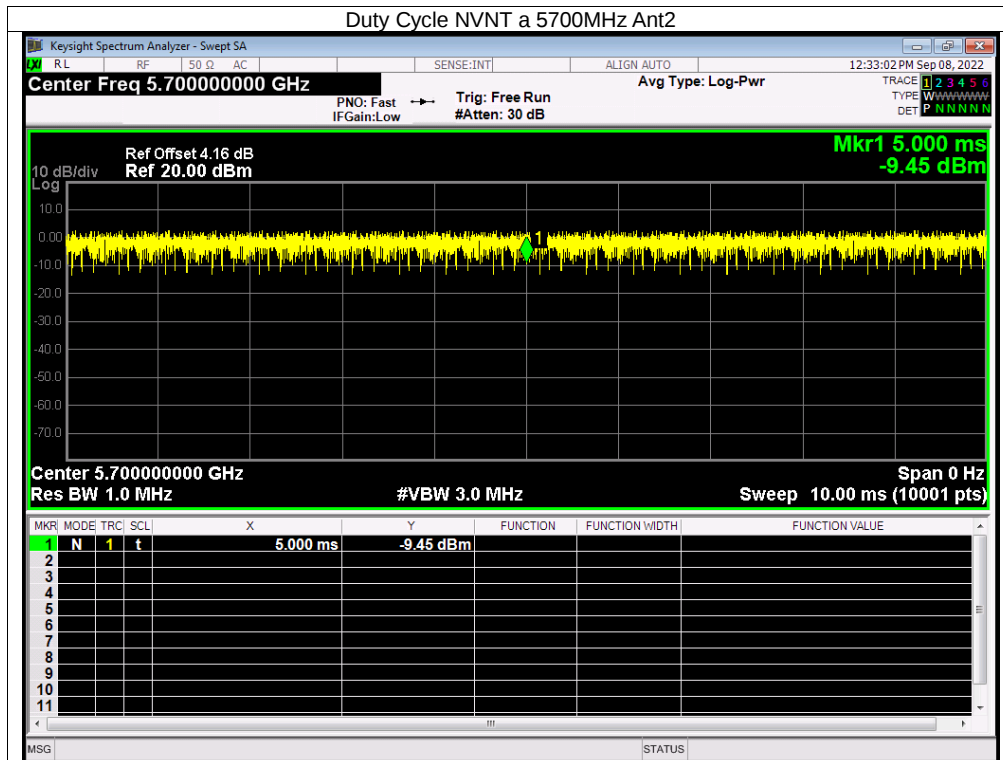


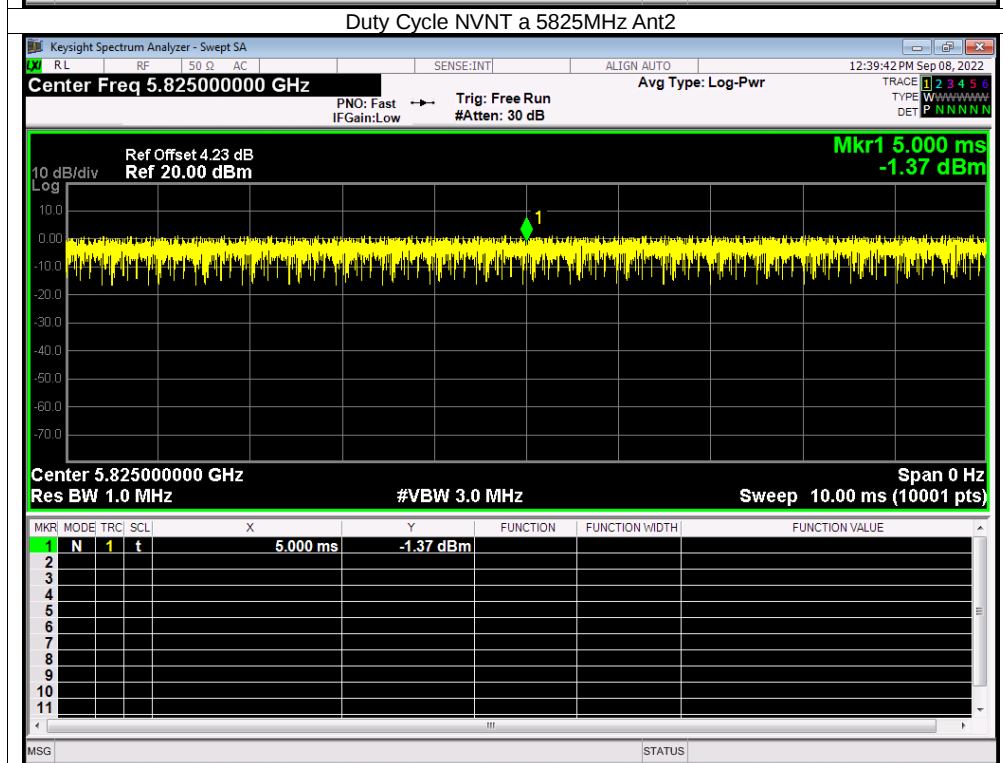
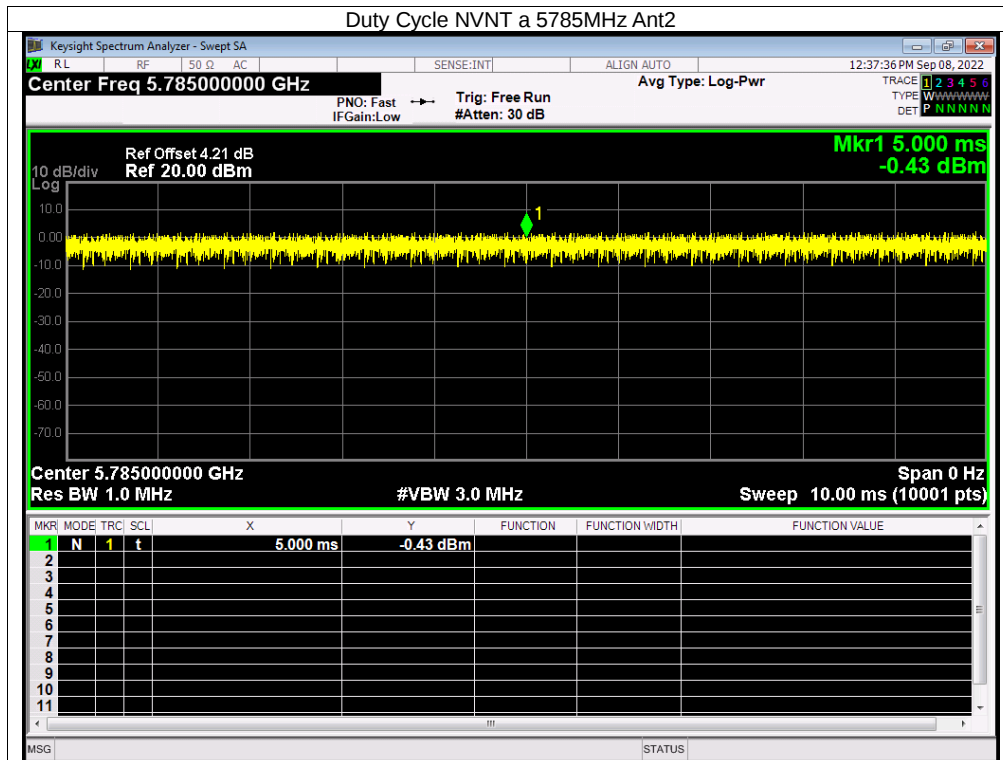


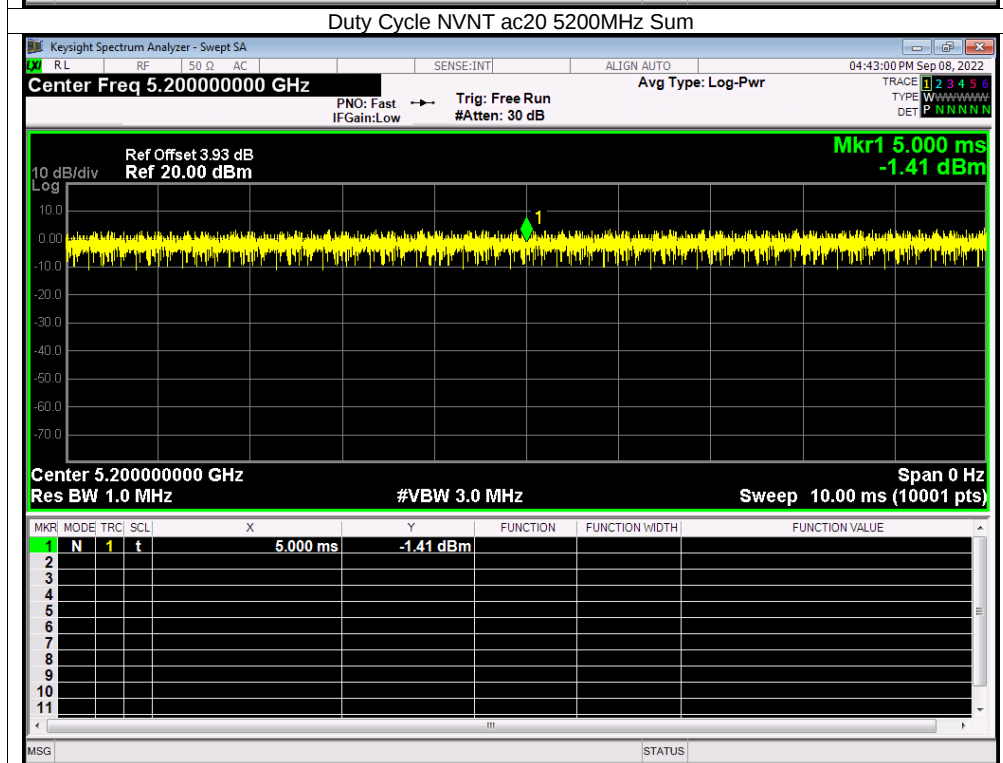
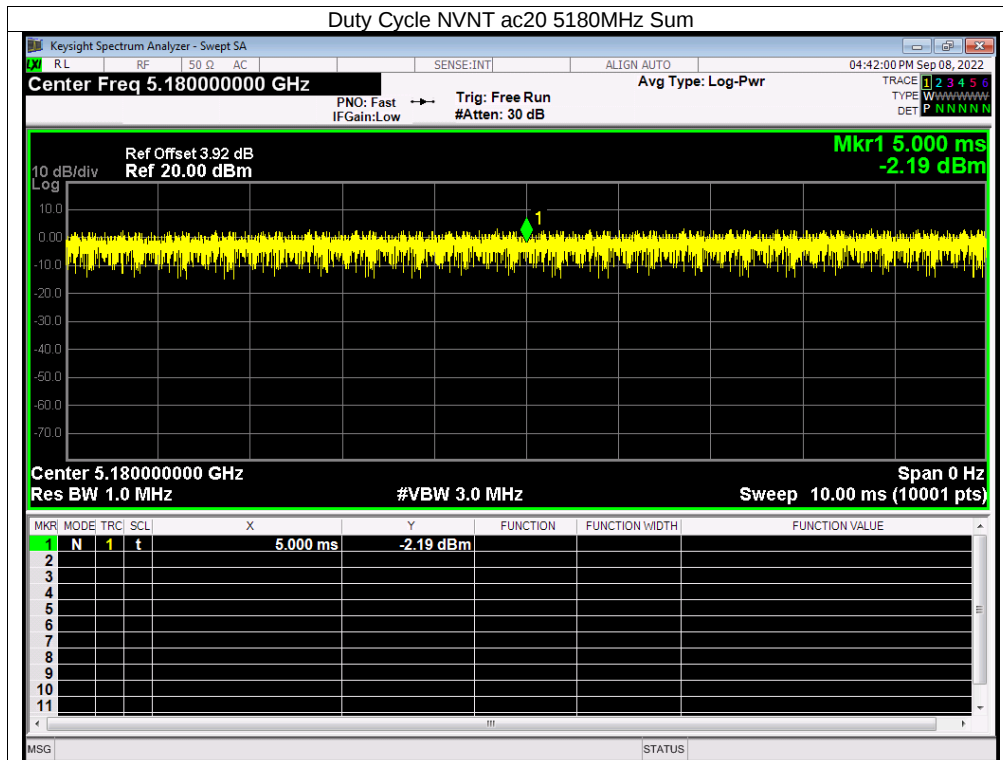


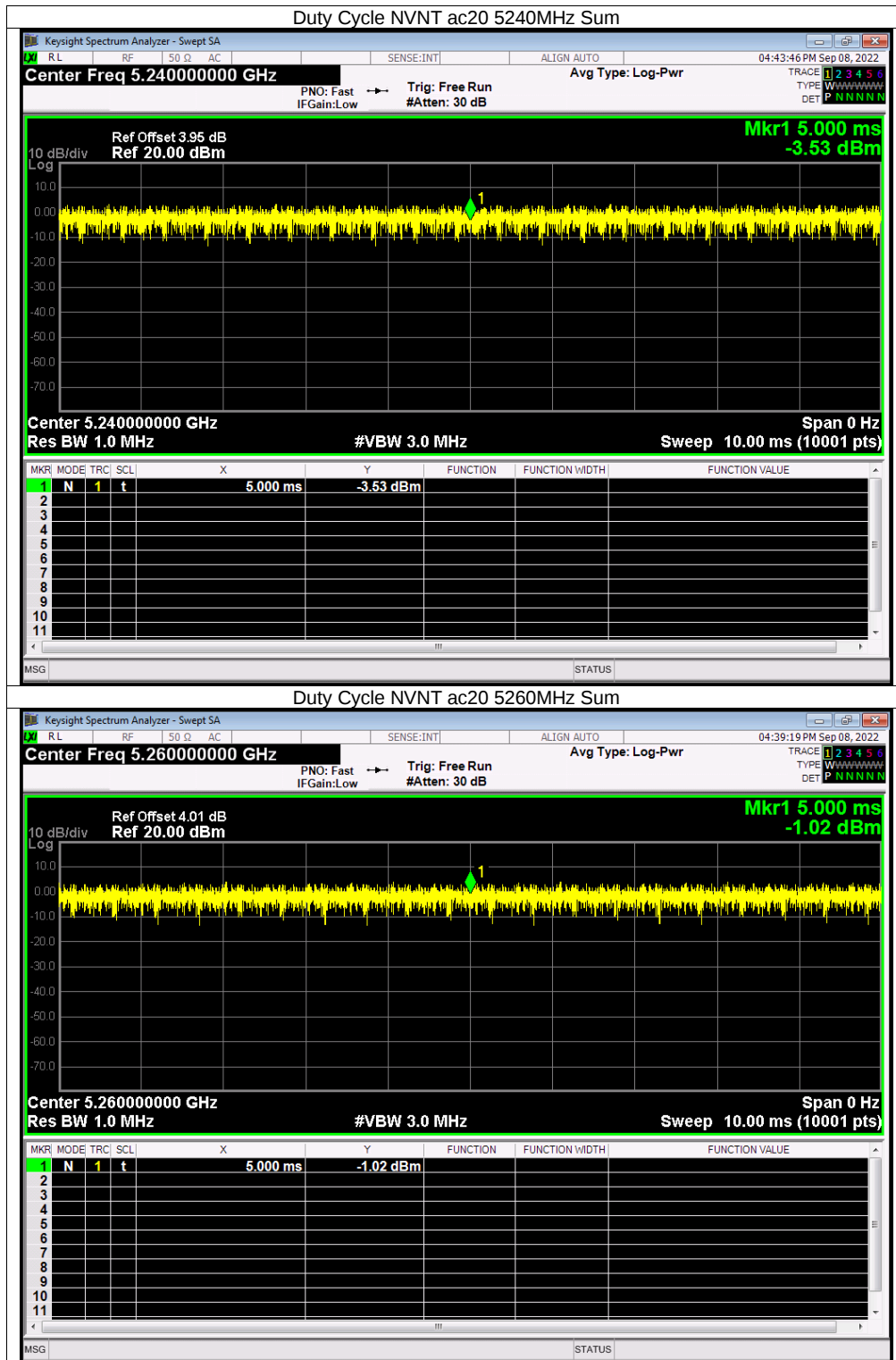


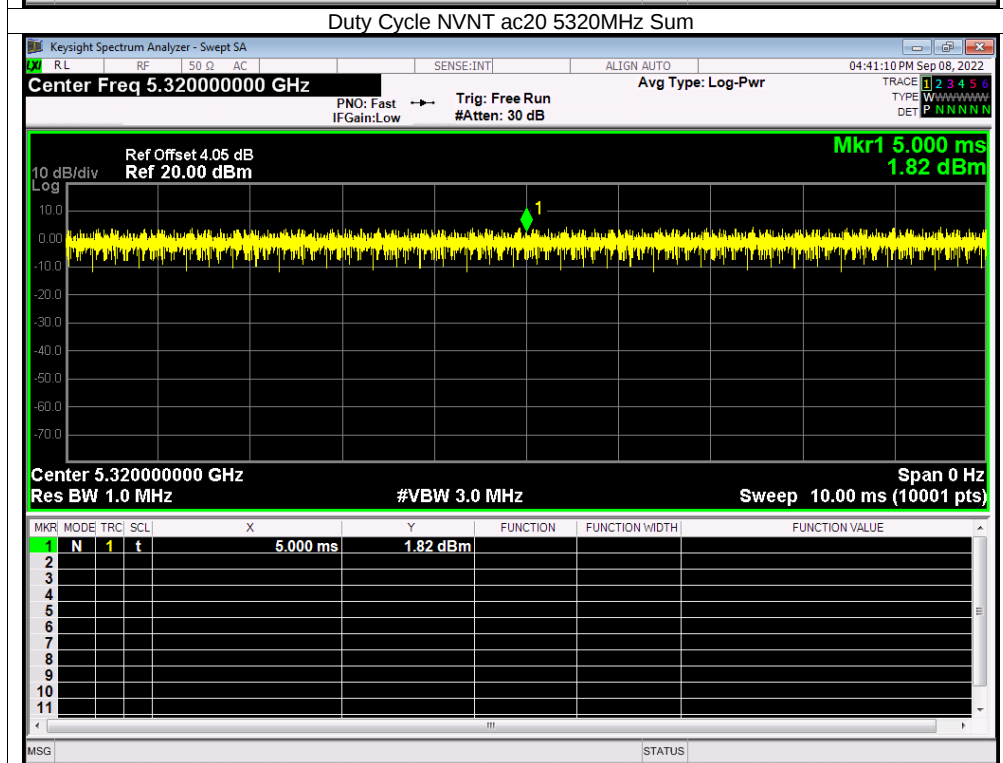
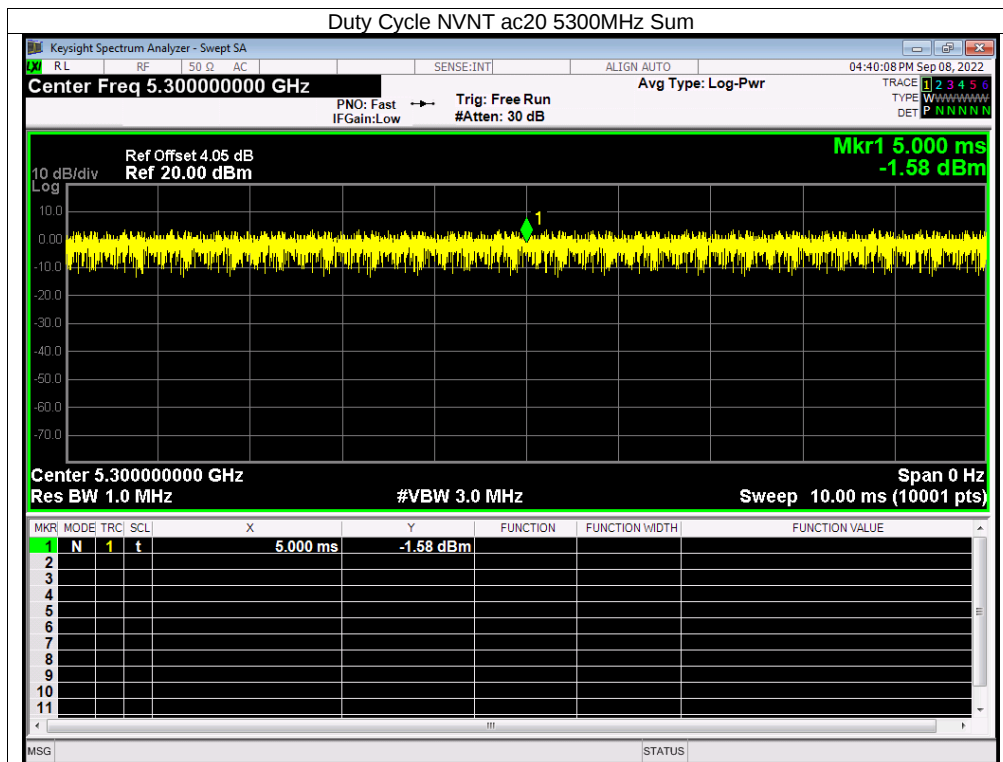


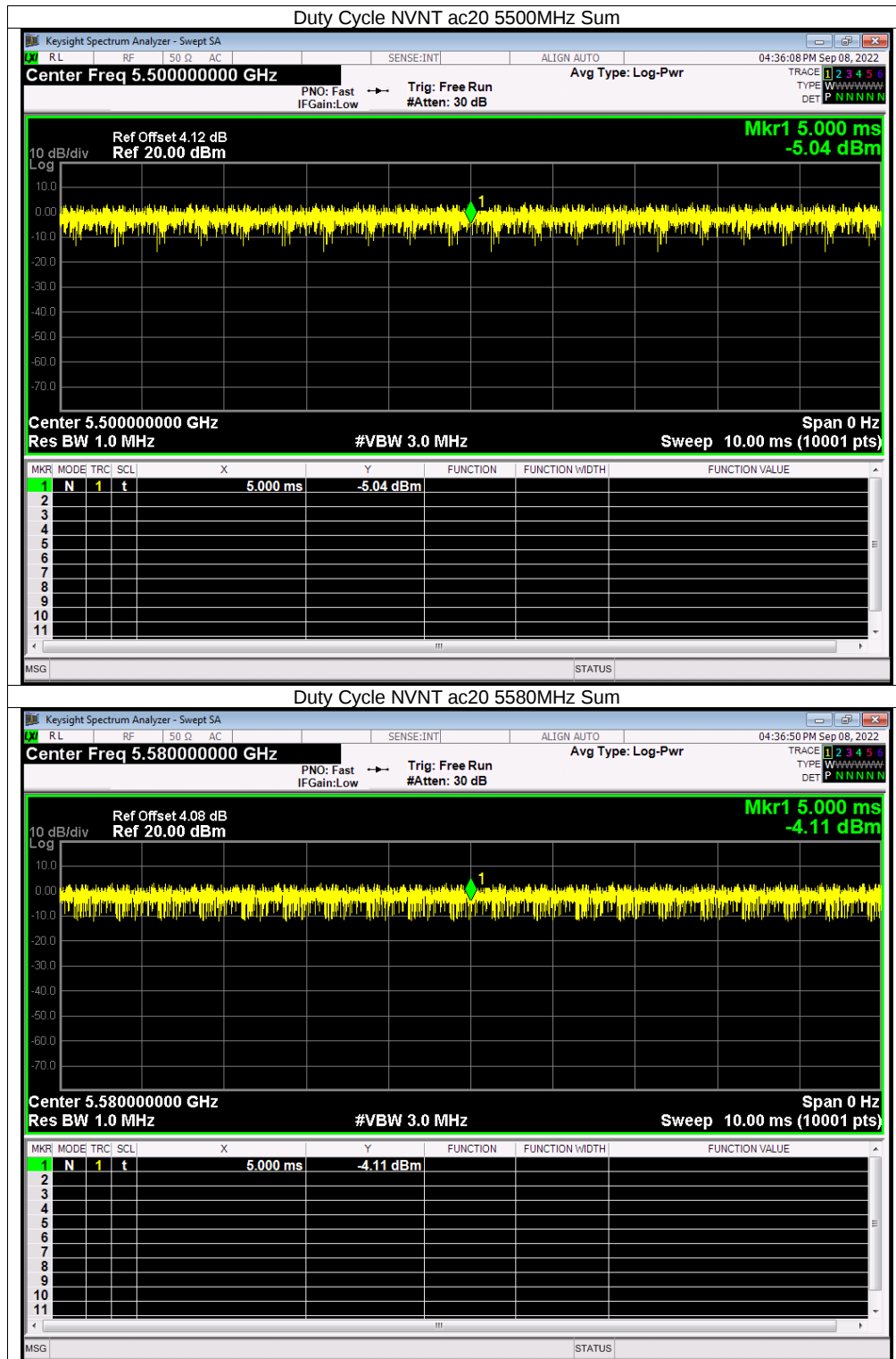


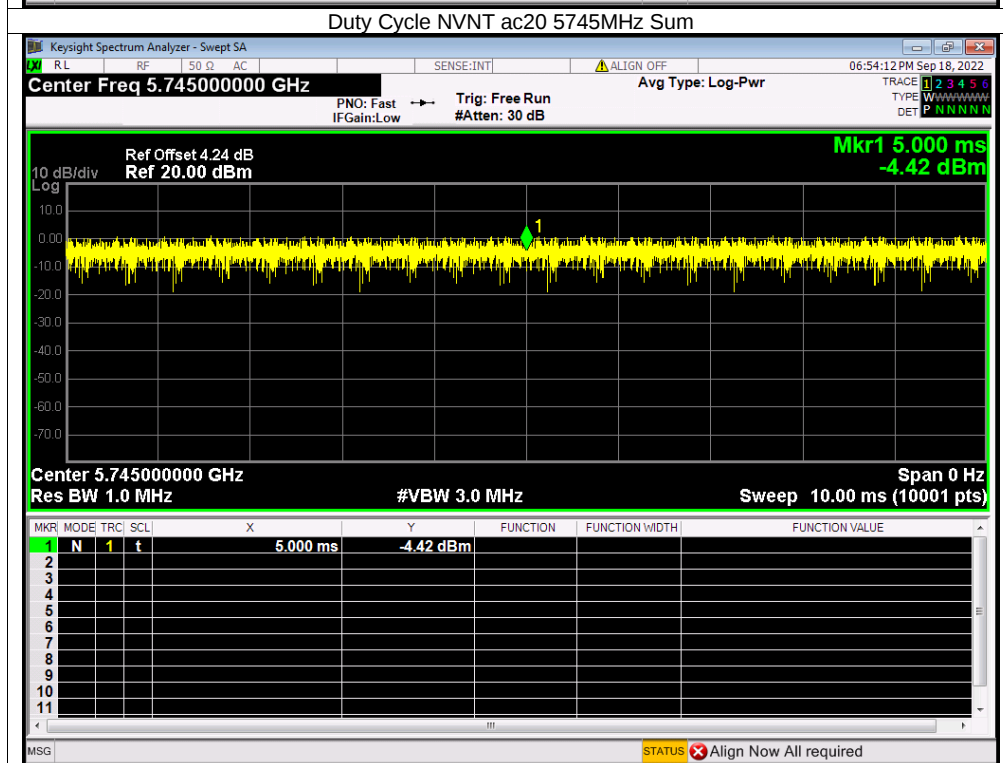
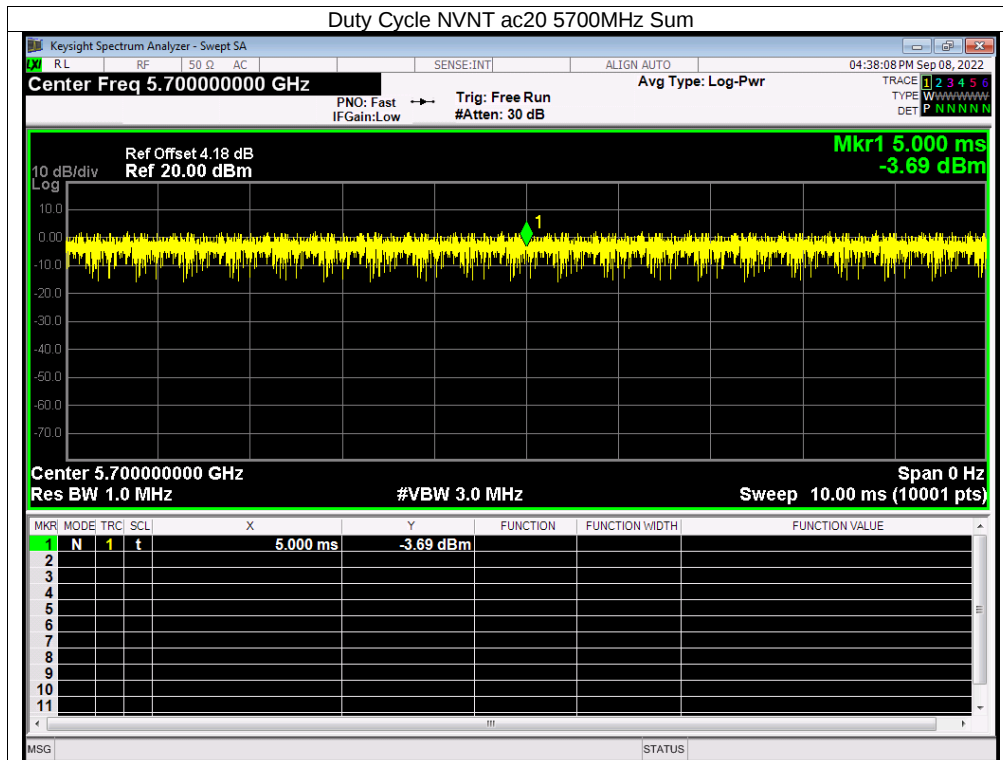


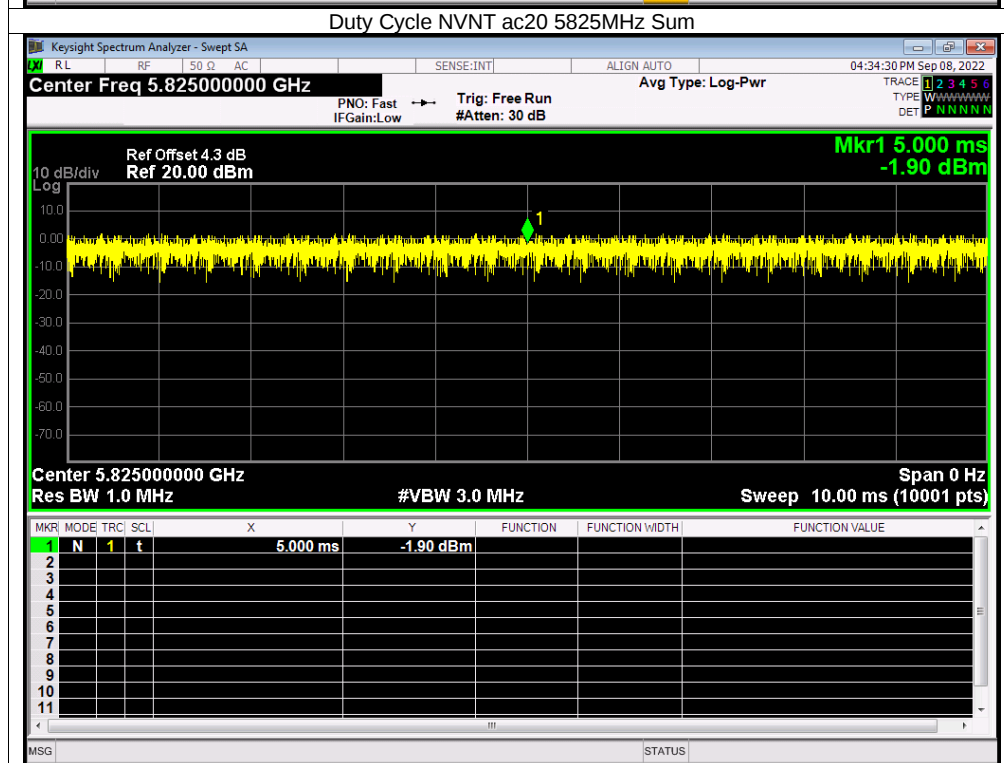
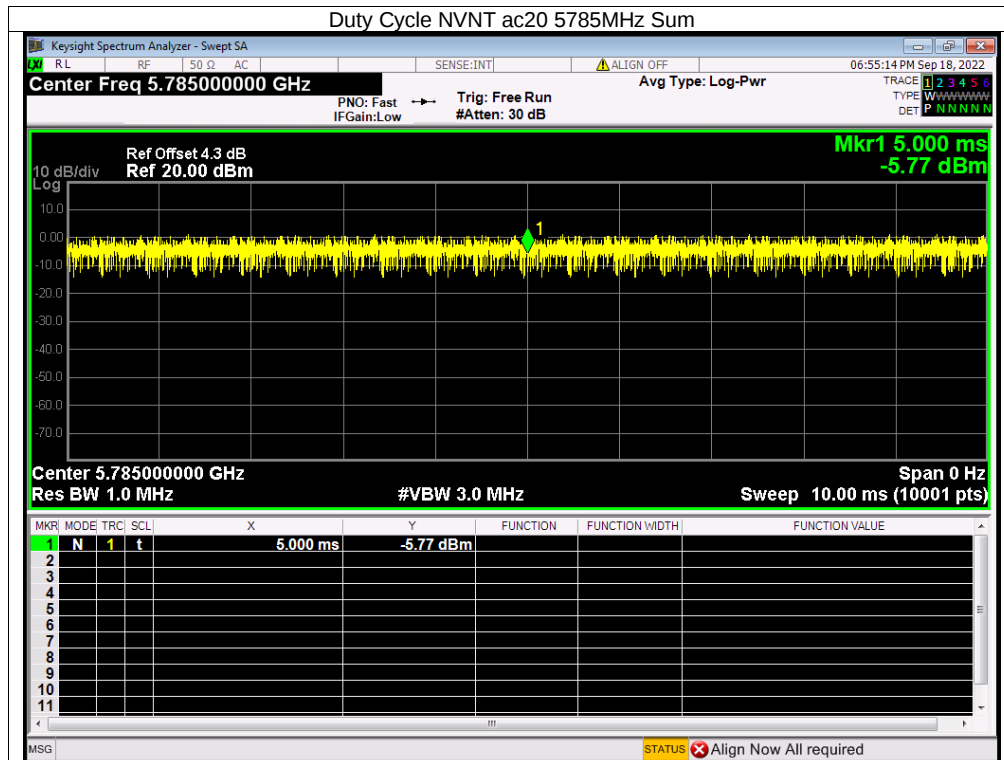


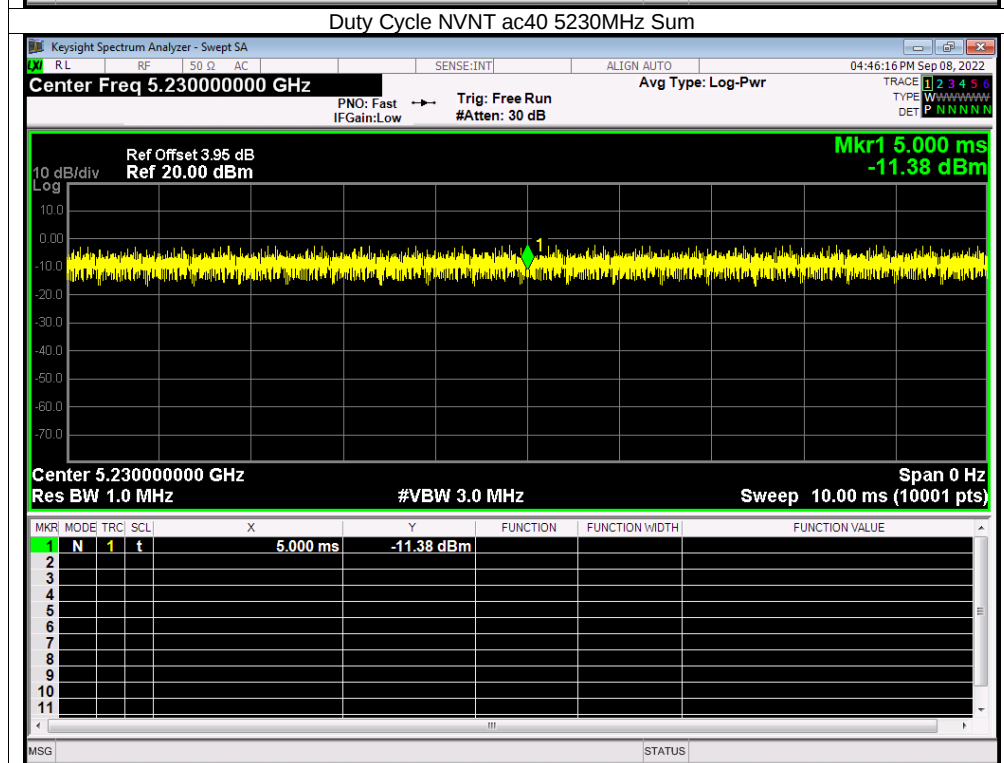
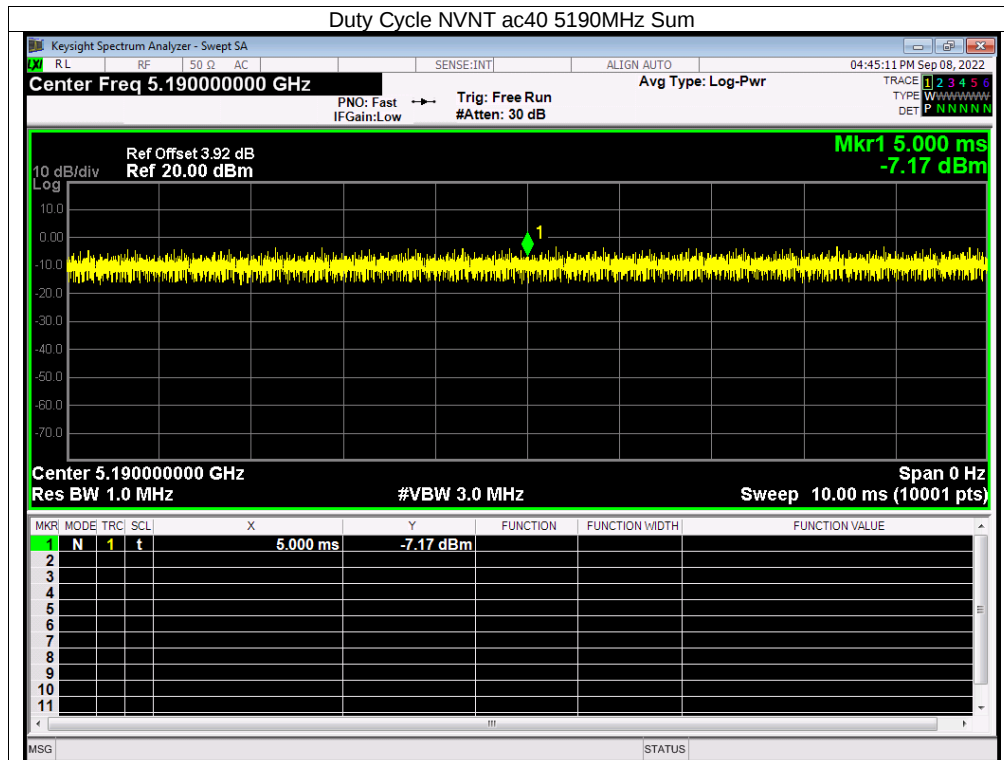


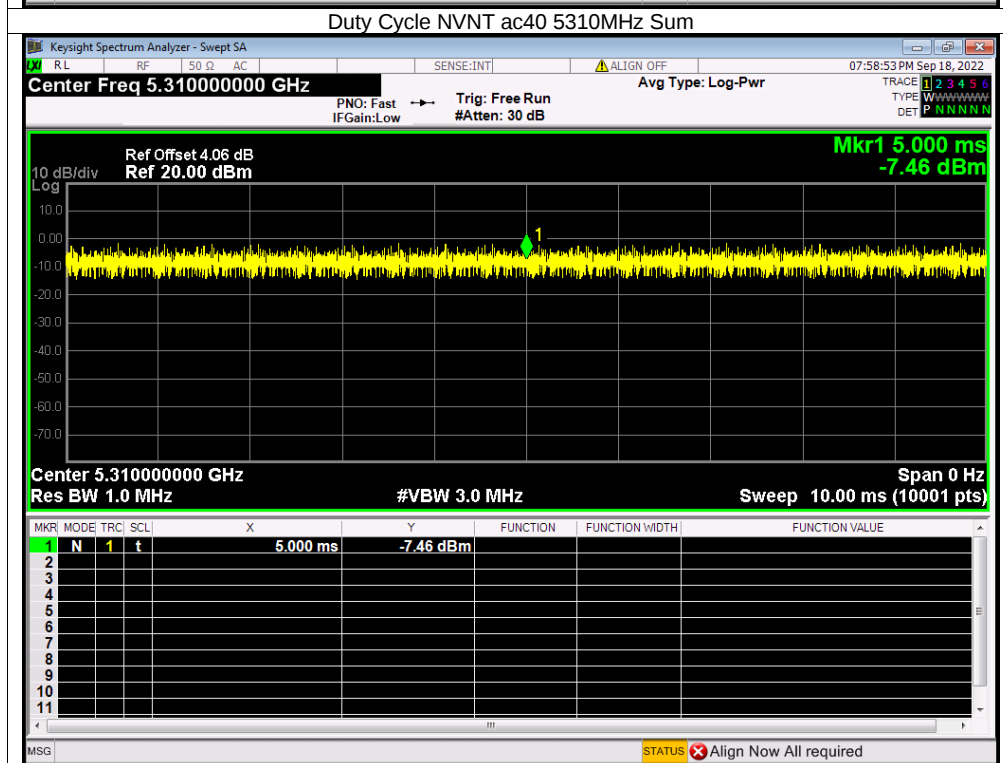
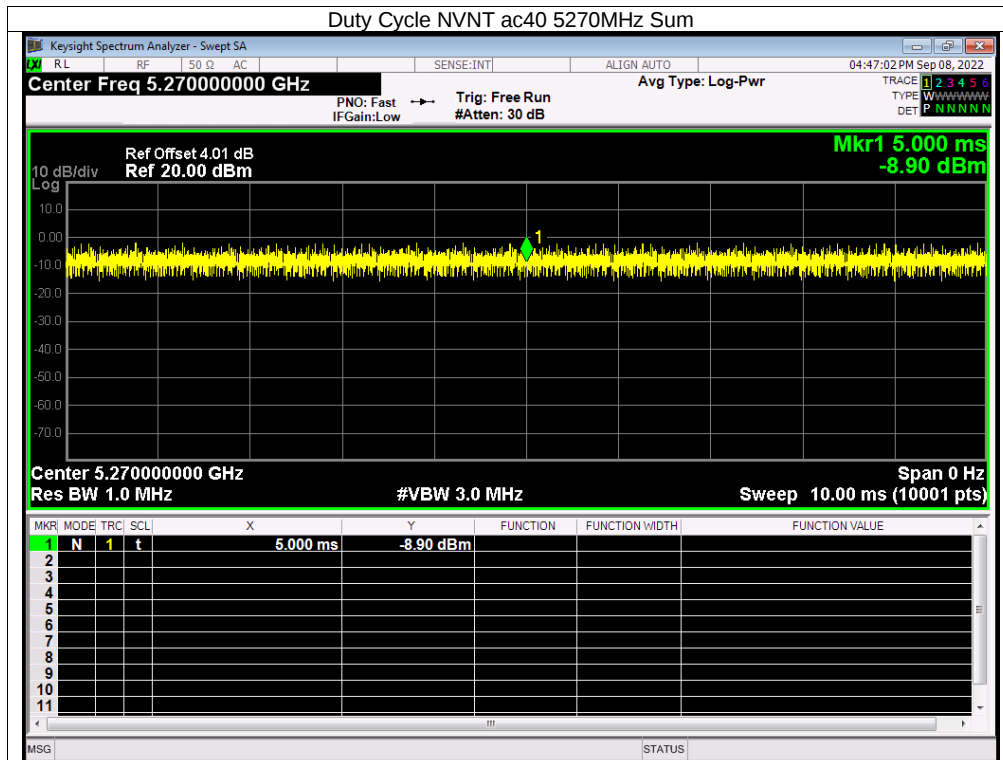


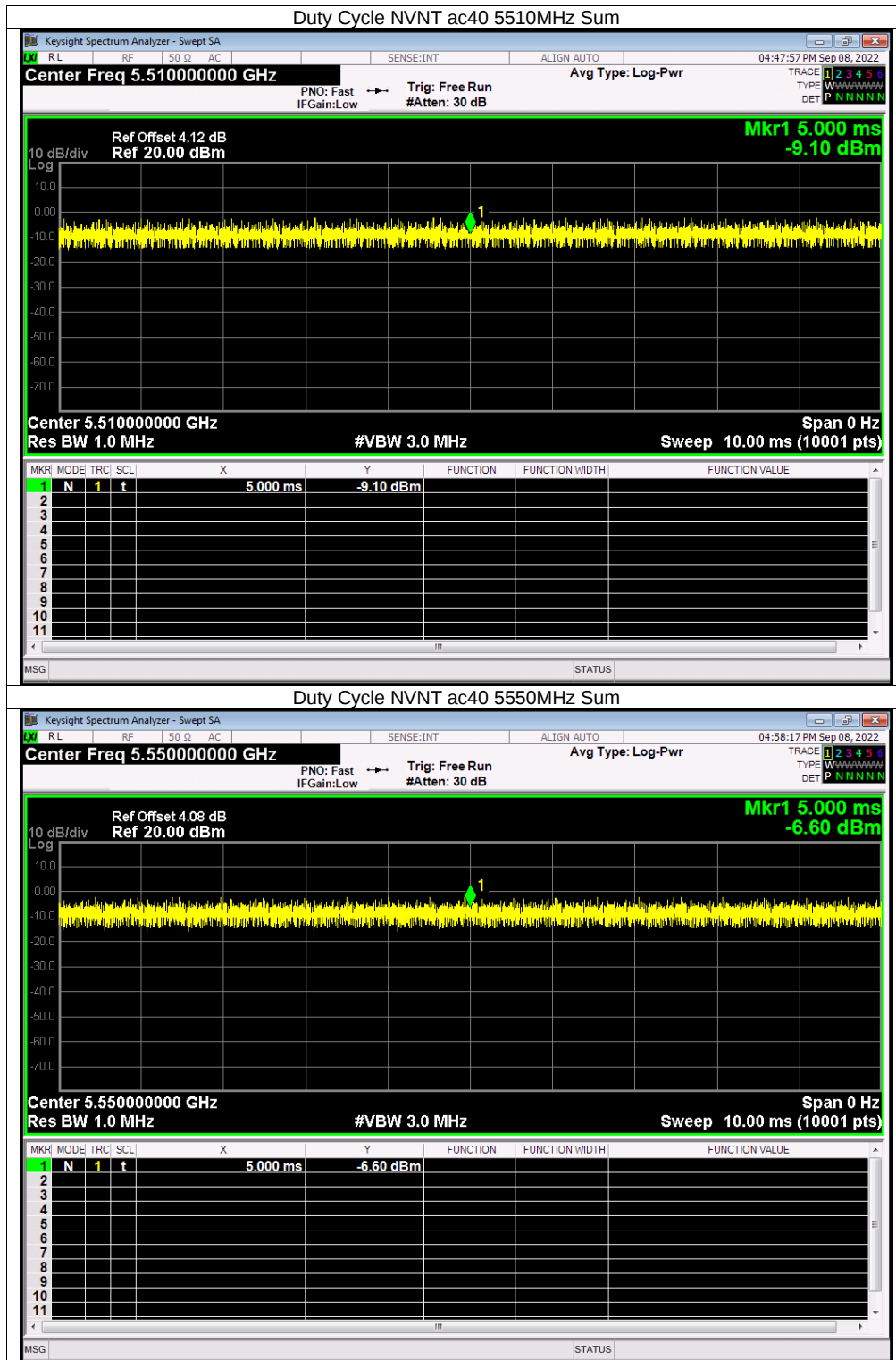


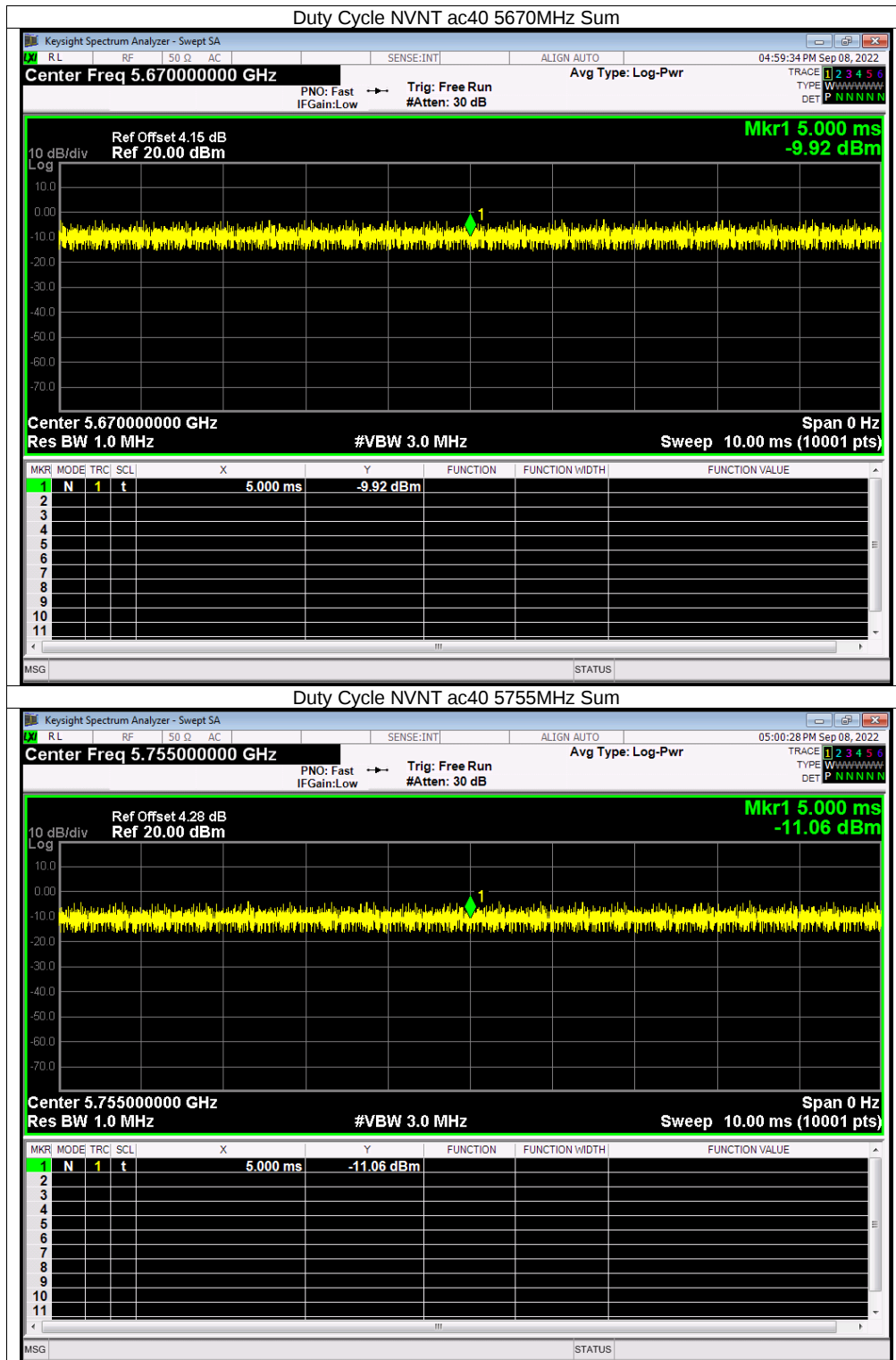


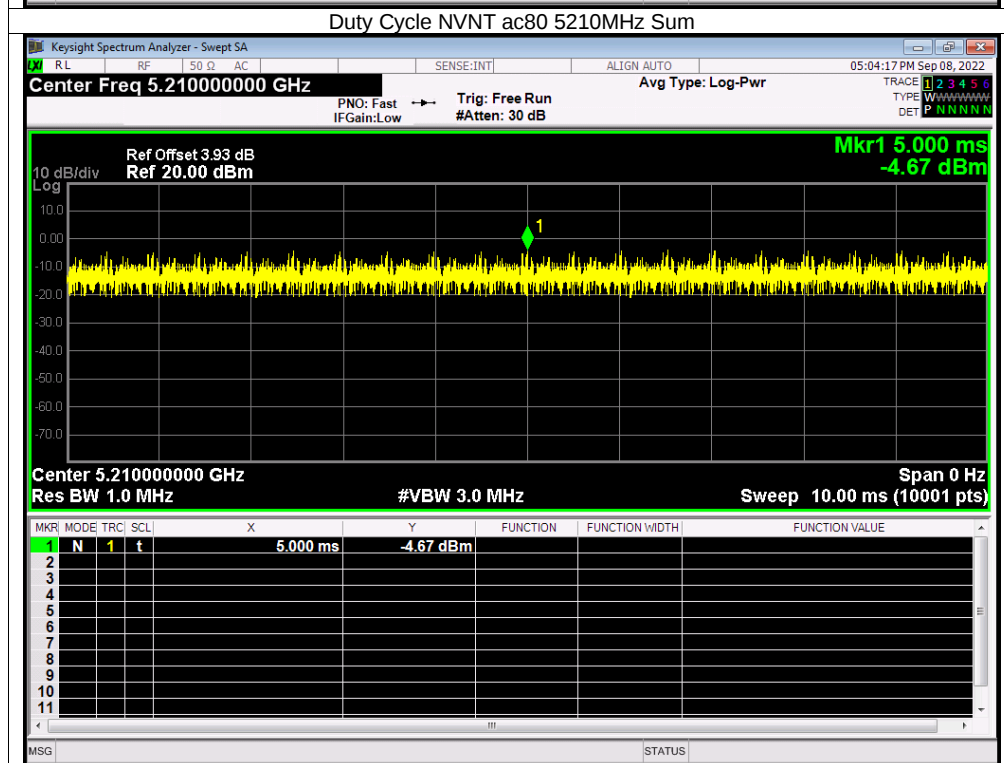
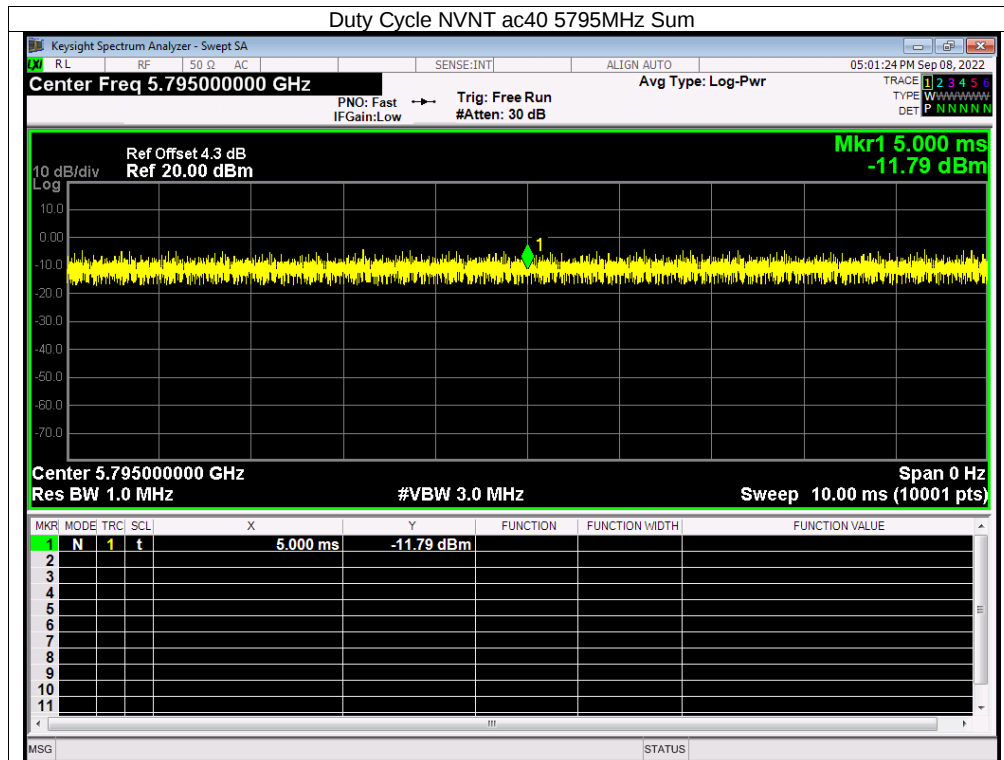


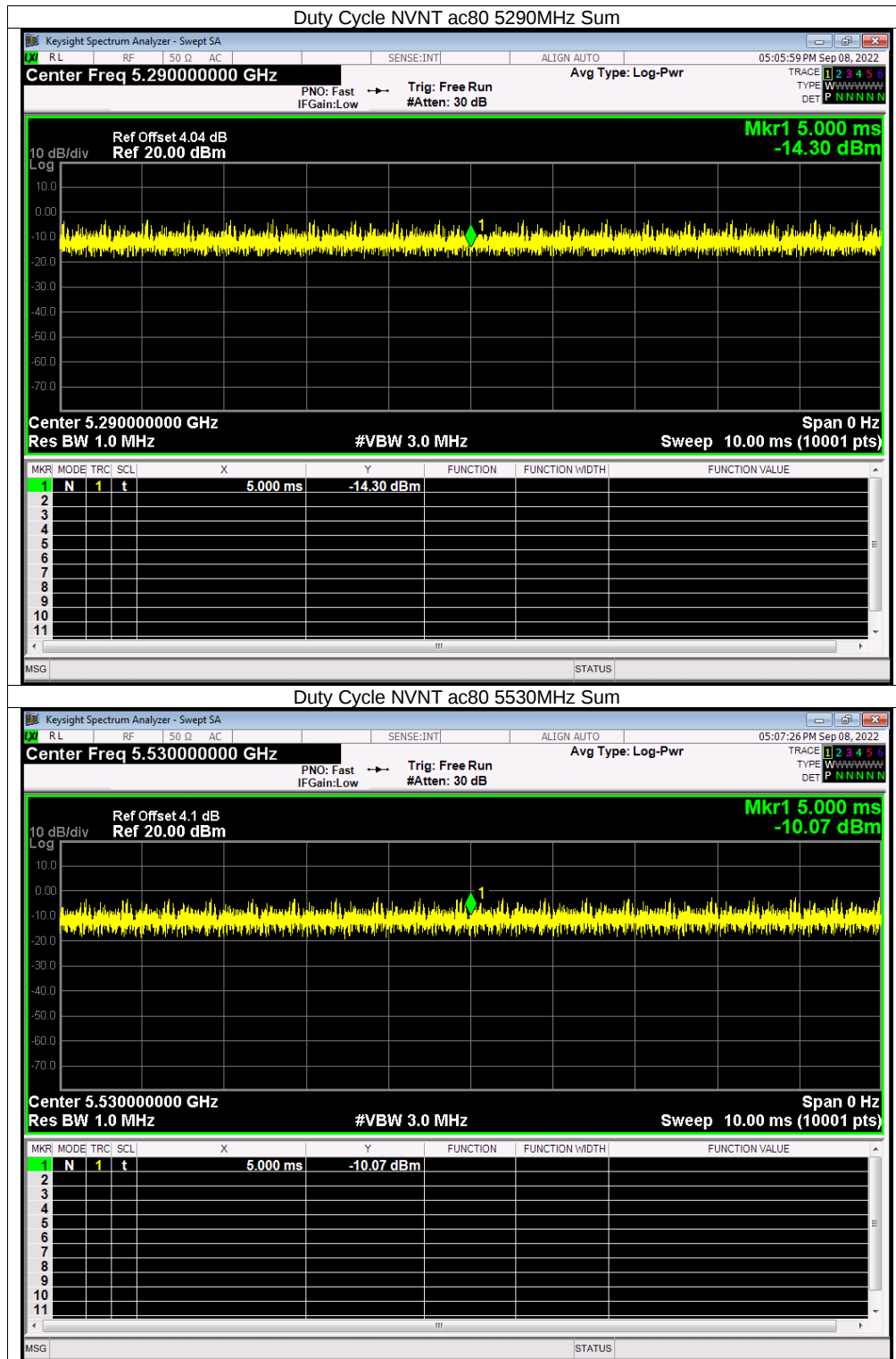


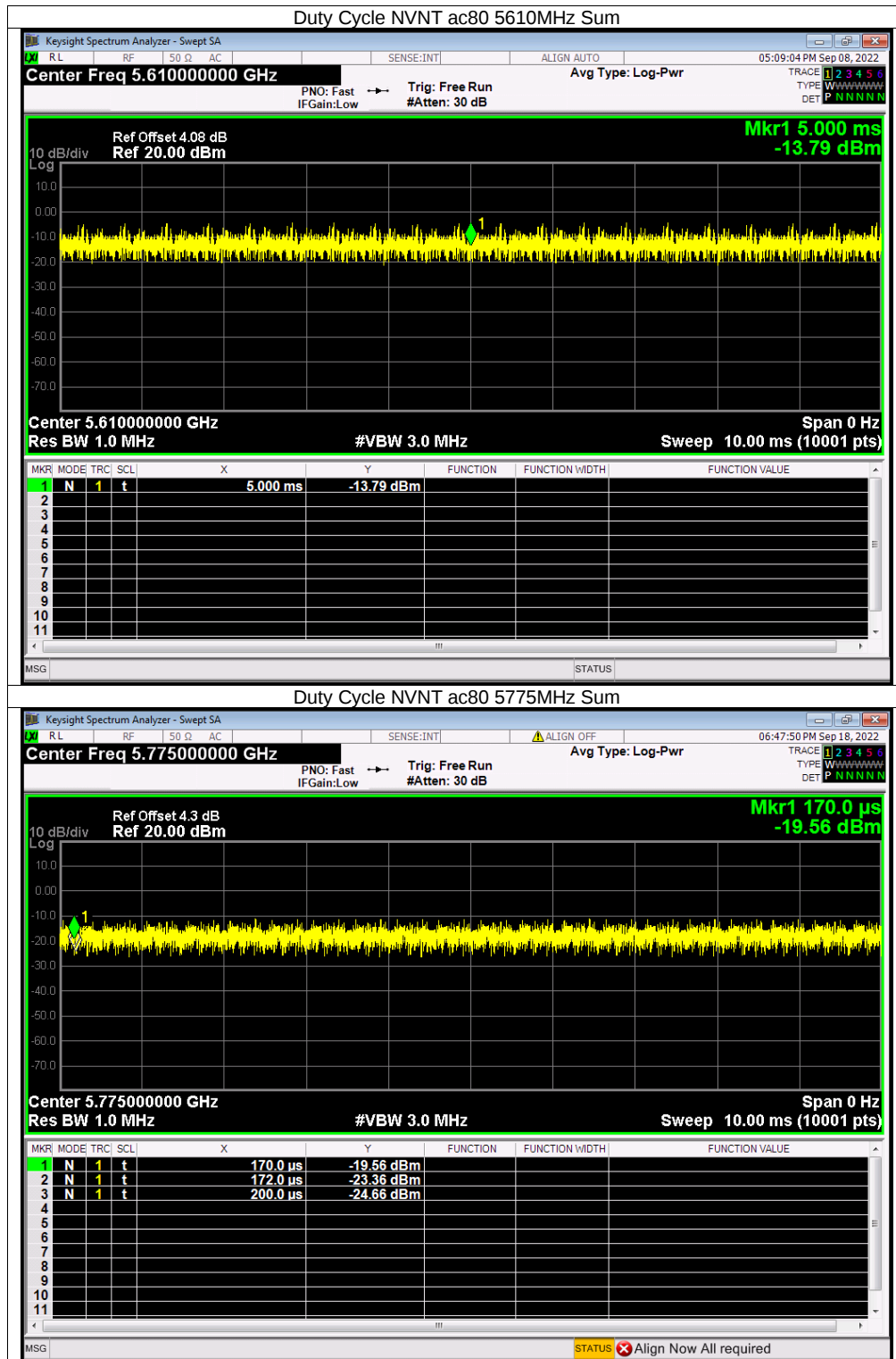


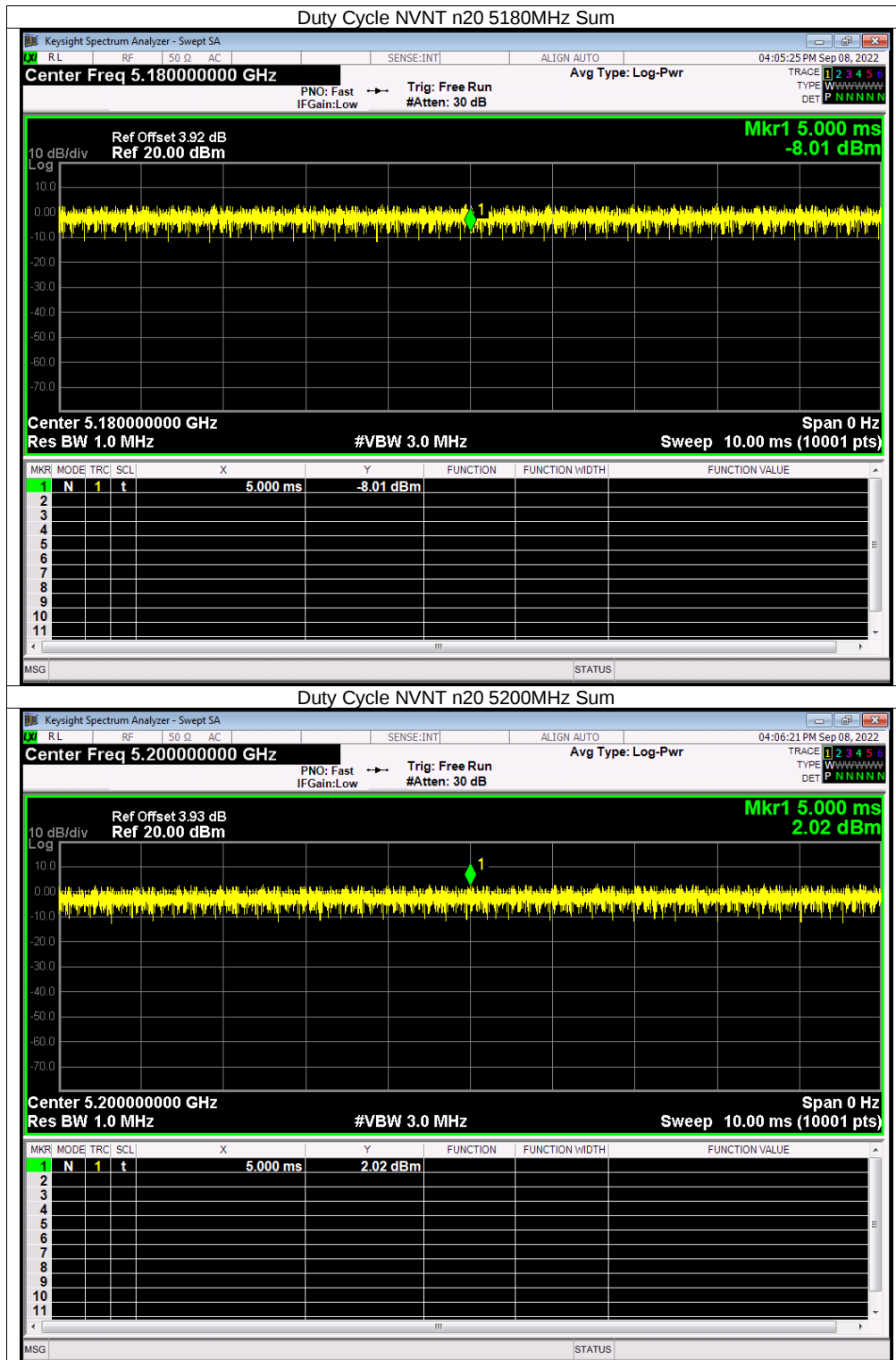


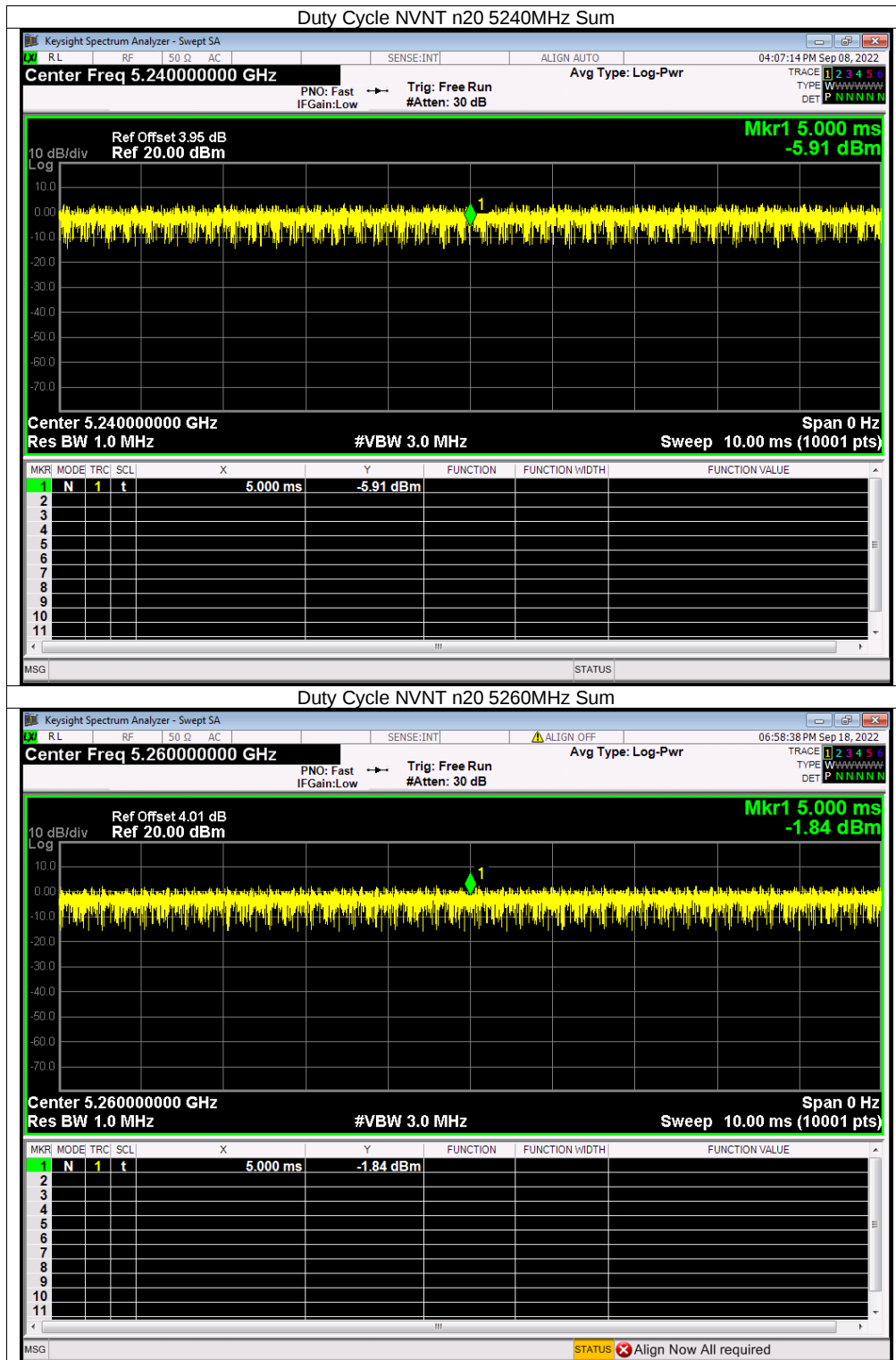


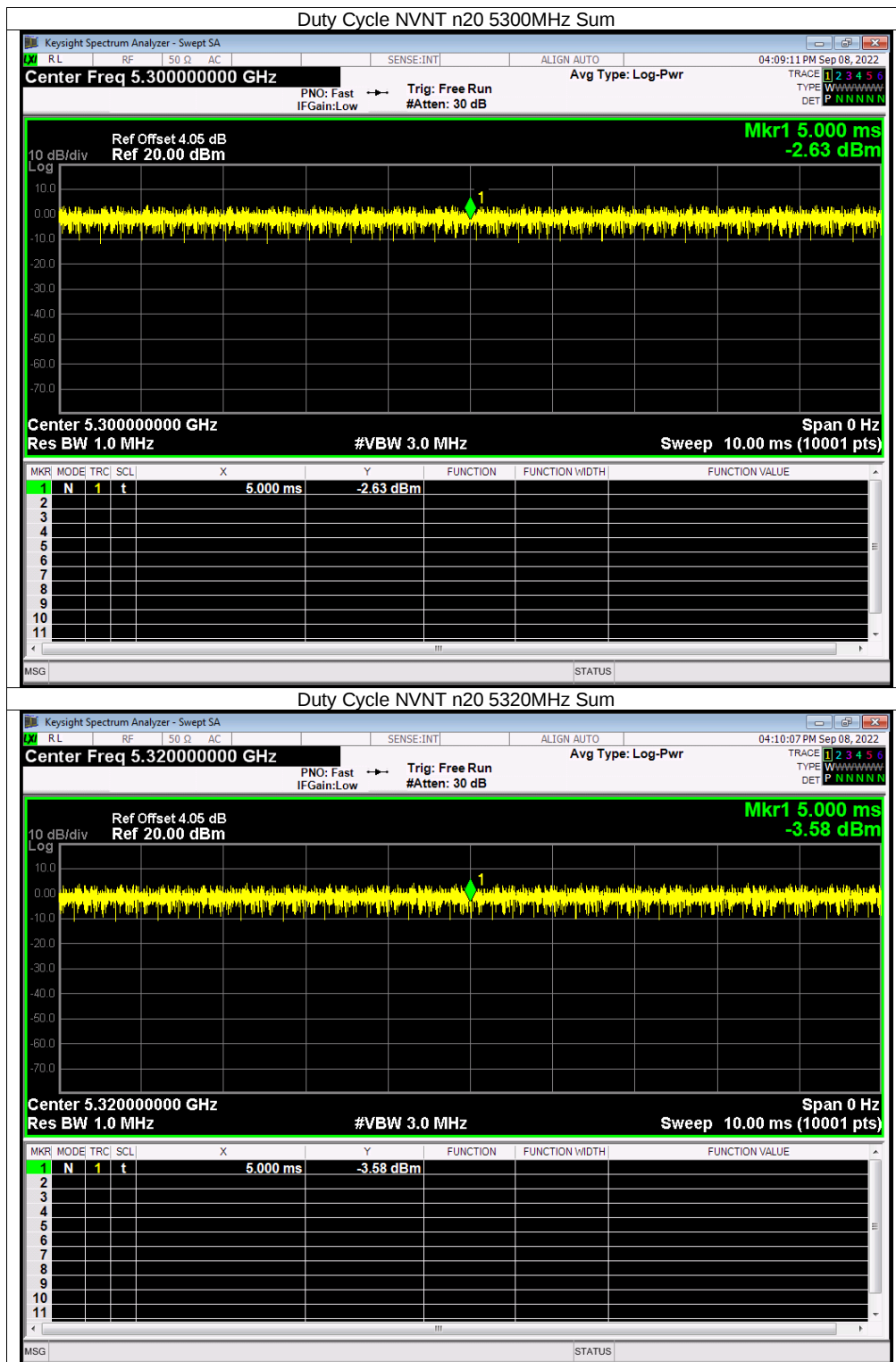


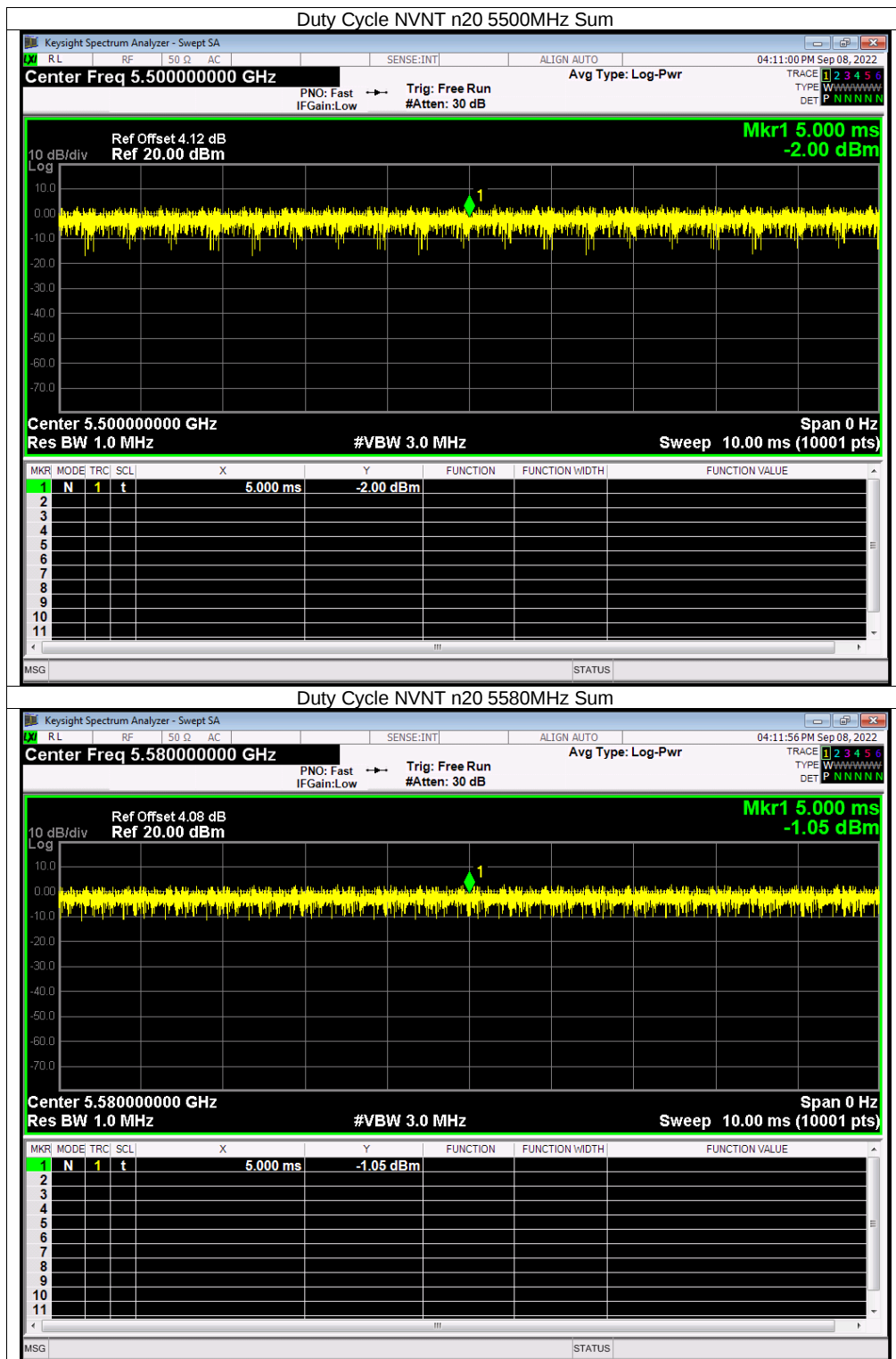


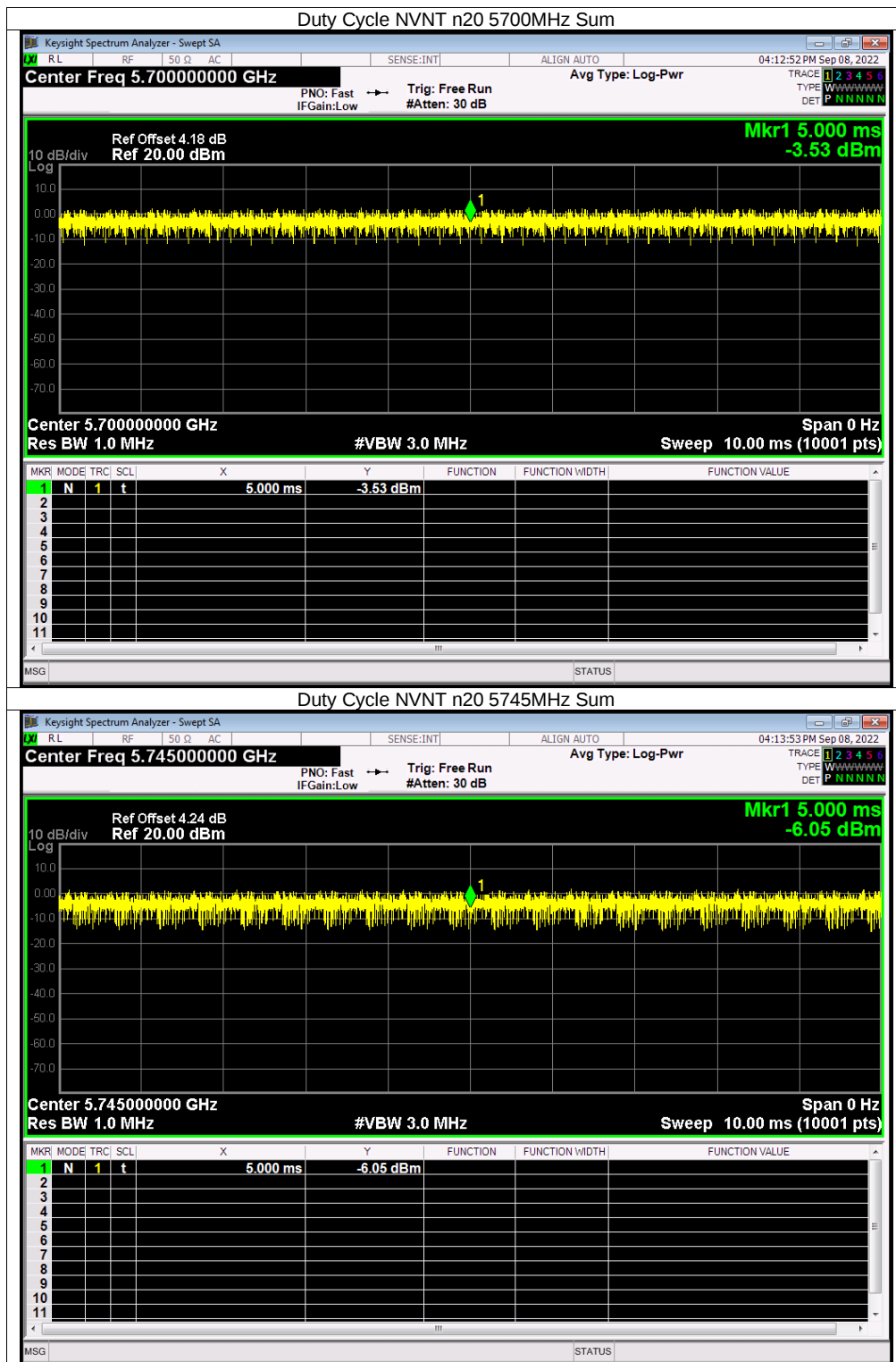


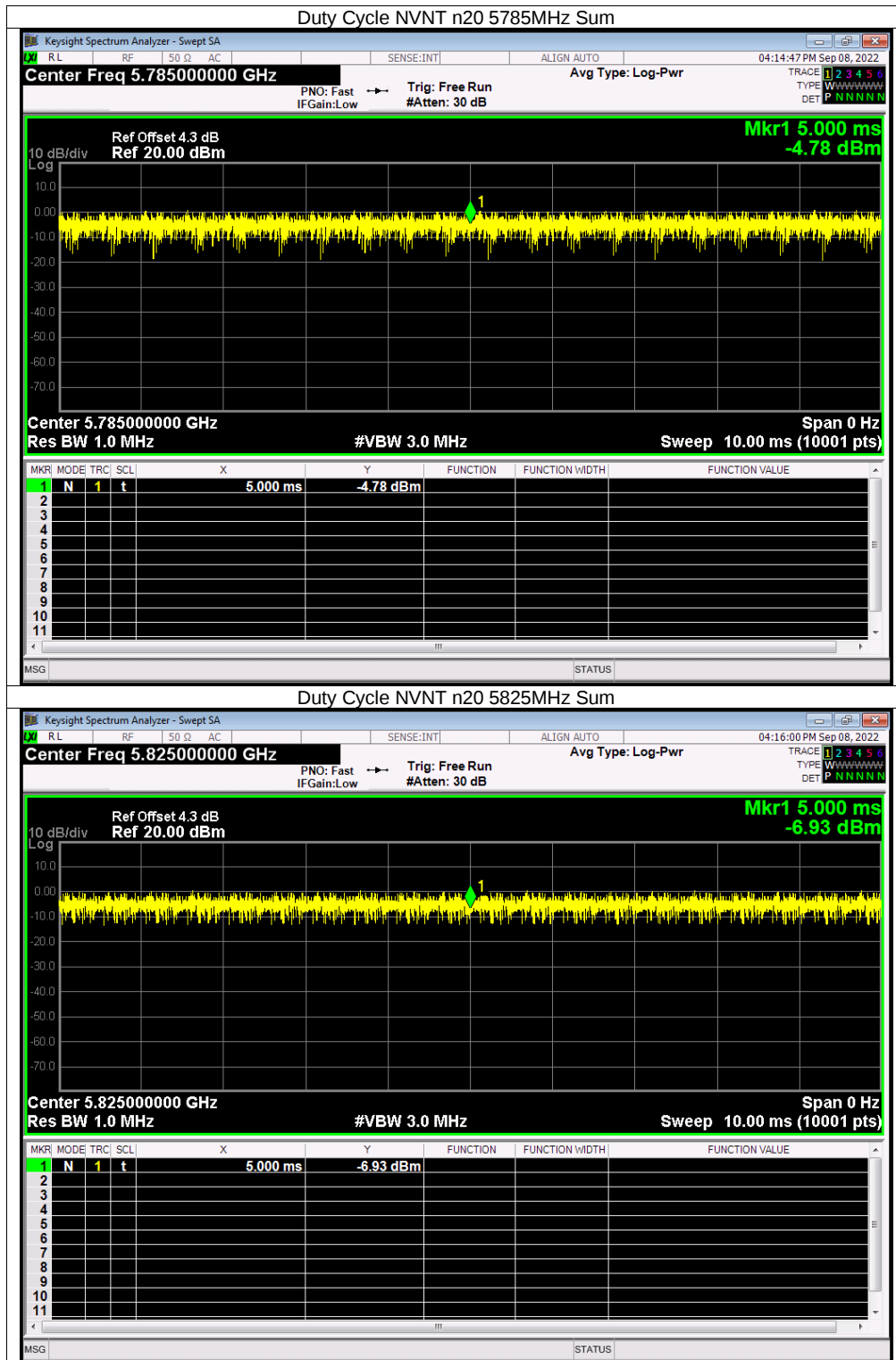


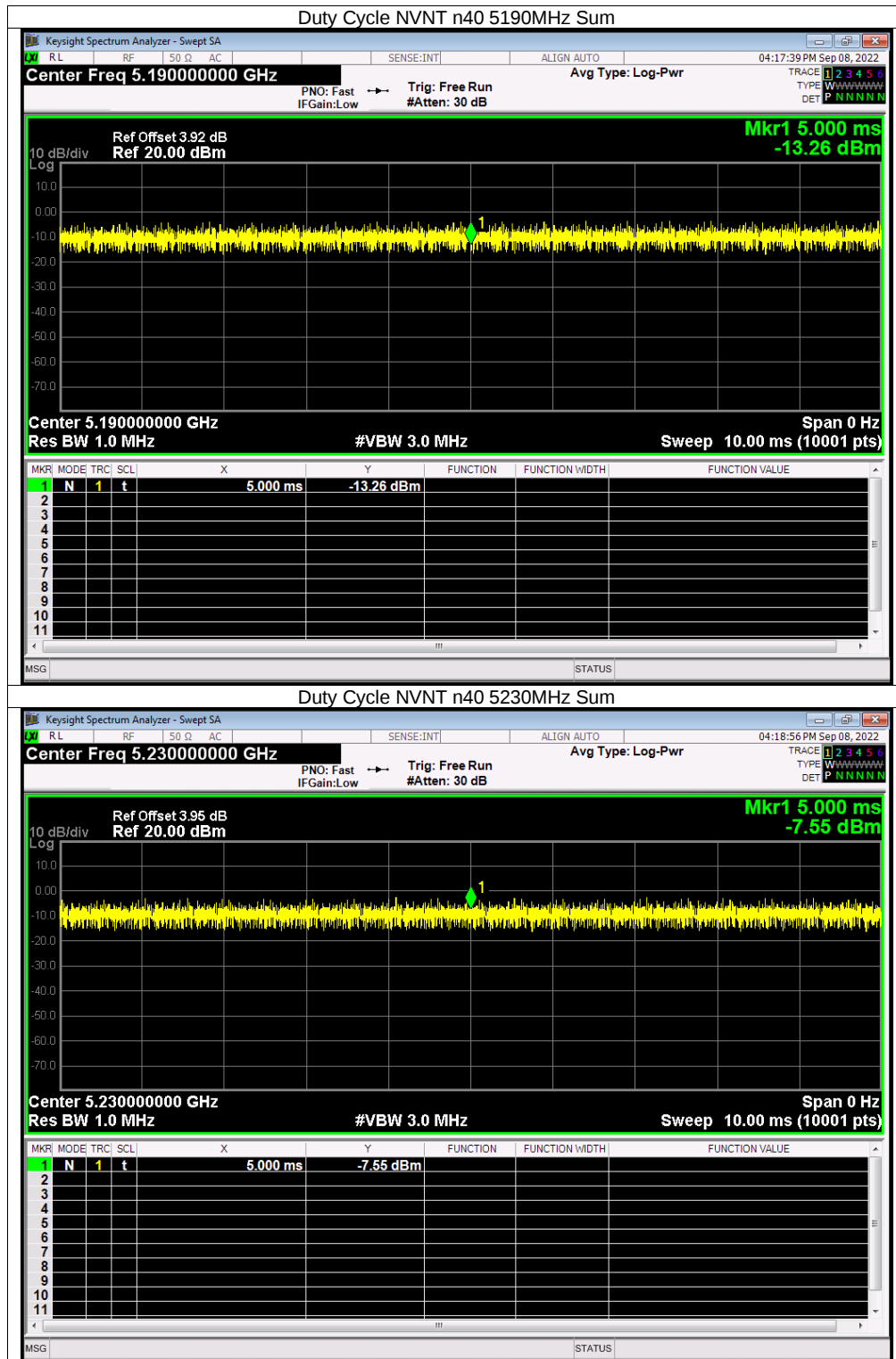


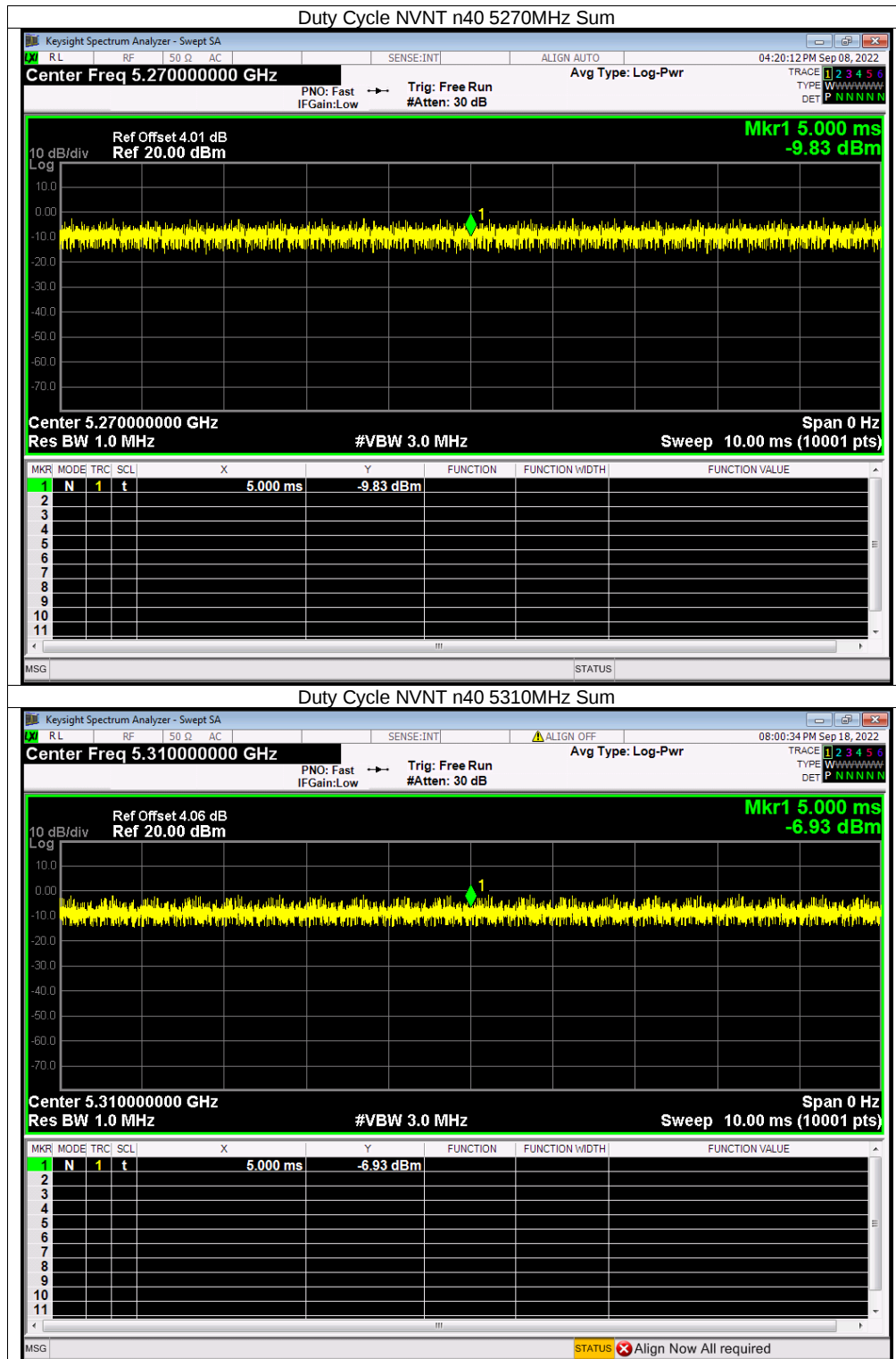


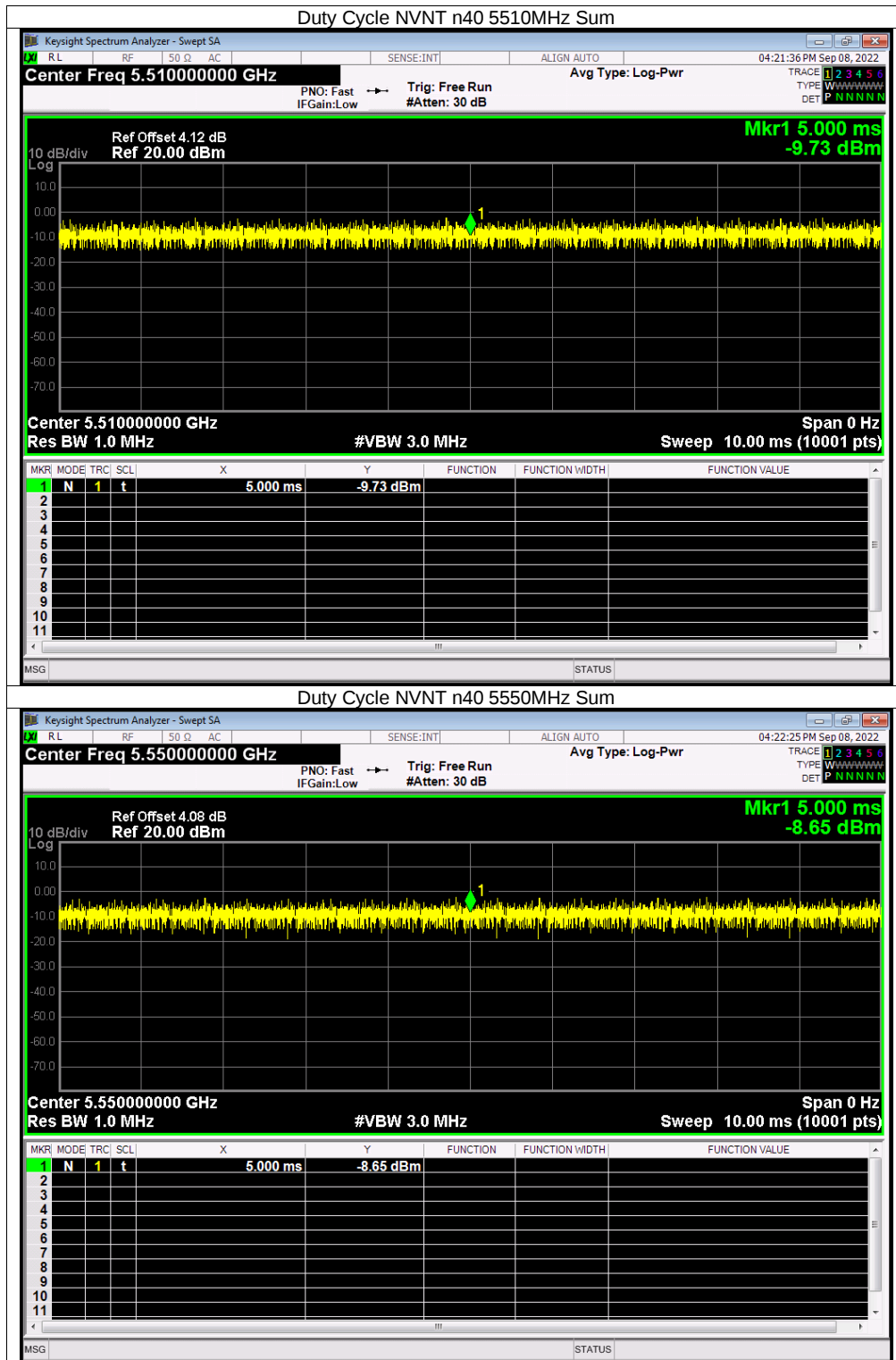


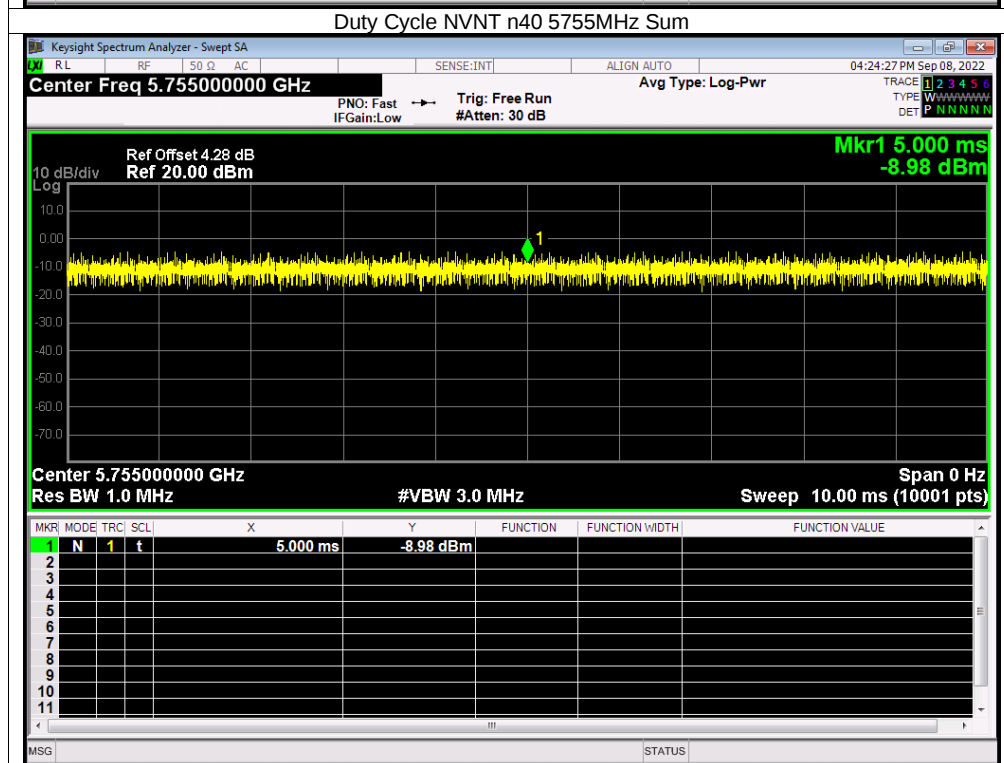
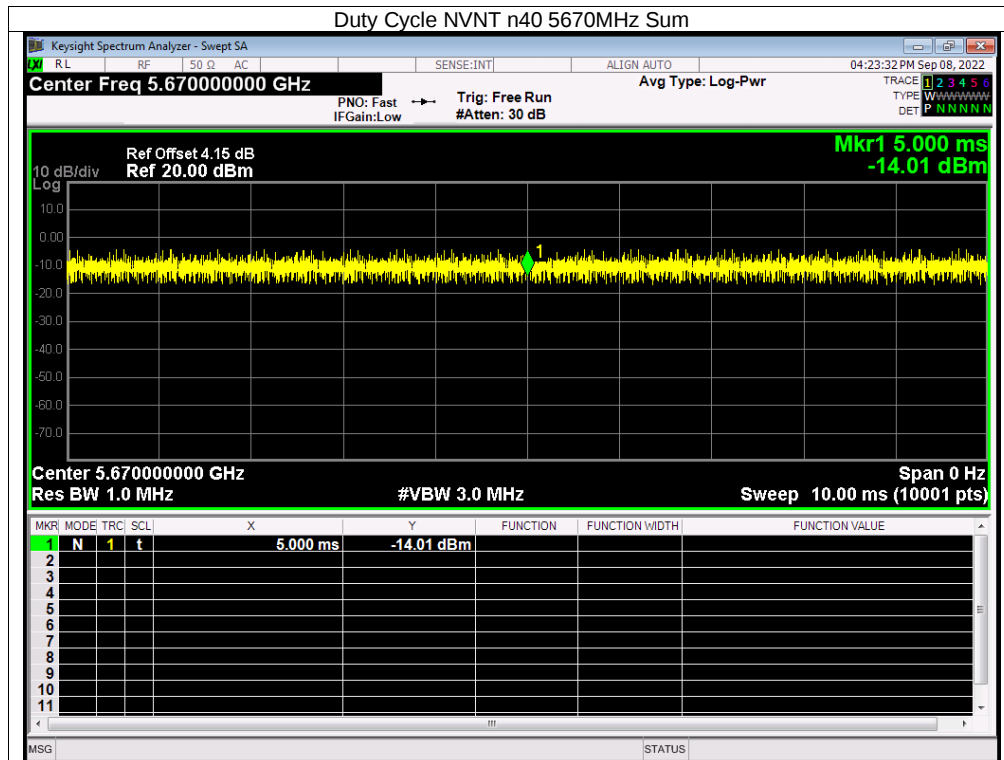


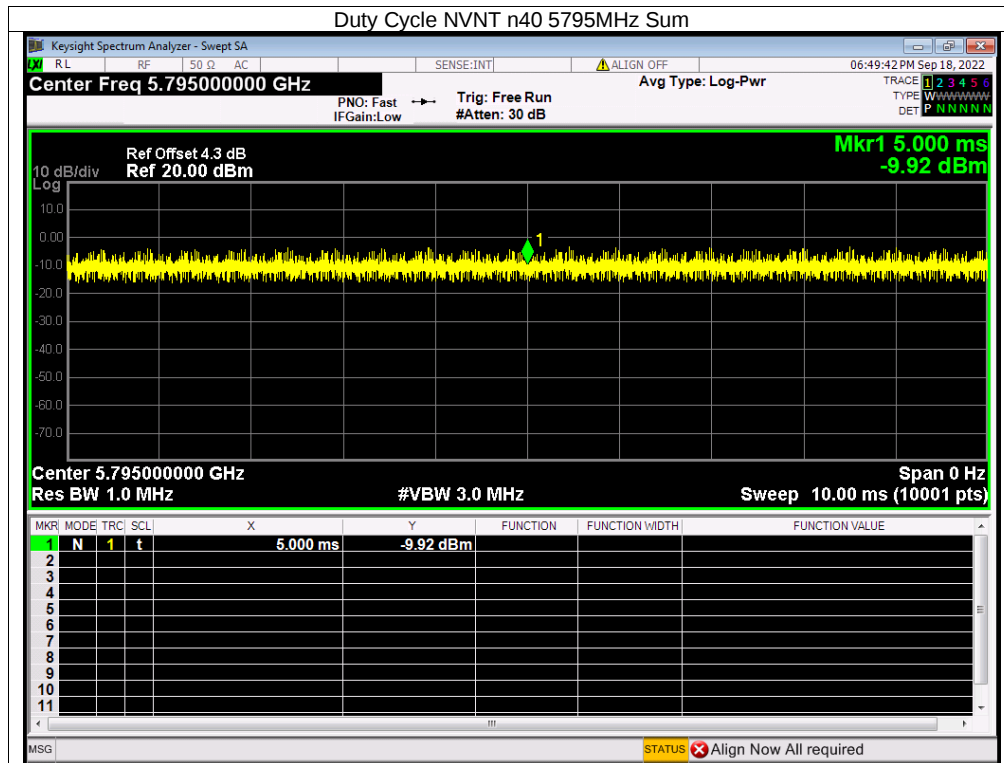














## MAXIMUM CONDUCTED OUTPUT POWER

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | 6.74                  | 0                | 6.74              | 24          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 5.99                  | 0                | 5.99              | 24          | Pass    |
| NVNT      | a    | 5240            | Ant1    | 7.05                  | 0                | 7.05              | 24          | Pass    |
| NVNT      | a    | 5260            | Ant1    | 7.26                  | 0                | 7.26              | 24          | Pass    |
| NVNT      | a    | 5300            | Ant1    | 7.33                  | 0                | 7.33              | 24          | Pass    |
| NVNT      | a    | 5320            | Ant1    | 7.38                  | 0                | 7.38              | 24          | Pass    |
| NVNT      | a    | 5500            | Ant1    | 7.68                  | 0                | 7.68              | 24          | Pass    |
| NVNT      | a    | 5580            | Ant1    | 7.36                  | 0                | 7.36              | 24          | Pass    |
| NVNT      | a    | 5700            | Ant1    | 7.2                   | 0                | 7.2               | 24          | Pass    |
| NVNT      | a    | 5745            | Ant1    | 6.54                  | 0                | 6.54              | 30          | Pass    |
| NVNT      | a    | 5785            | Ant1    | 6.55                  | 0                | 6.55              | 30          | Pass    |
| NVNT      | a    | 5825            | Ant1    | 6.63                  | 0                | 6.63              | 30          | Pass    |
| NVNT      | a    | 5180            | Ant2    | 6.86                  | 0                | 6.86              | 24          | Pass    |
| NVNT      | a    | 5200            | Ant2    | 6.32                  | 0                | 6.32              | 24          | Pass    |
| NVNT      | a    | 5240            | Ant2    | 6.86                  | 0                | 6.86              | 24          | Pass    |
| NVNT      | a    | 5260            | Ant2    | 7.34                  | 0                | 7.34              | 24          | Pass    |
| NVNT      | a    | 5300            | Ant2    | 7.68                  | 0                | 7.68              | 24          | Pass    |
| NVNT      | a    | 5320            | Ant2    | 8.14                  | 0                | 8.14              | 24          | Pass    |
| NVNT      | a    | 5500            | Ant2    | 7.07                  | 0                | 7.07              | 24          | Pass    |
| NVNT      | a    | 5580            | Ant2    | 7.12                  | 0                | 7.12              | 24          | Pass    |
| NVNT      | a    | 5700            | Ant2    | 7.19                  | 0                | 7.19              | 24          | Pass    |
| NVNT      | a    | 5745            | Ant2    | 6.95                  | 0                | 6.95              | 30          | Pass    |
| NVNT      | a    | 5785            | Ant2    | 6.51                  | 0                | 6.51              | 30          | Pass    |
| NVNT      | a    | 5825            | Ant2    | 5.76                  | 0                | 5.76              | 30          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 6.72                  | 0                | 6.72              | 24          | Pass    |
| NVNT      | ac20 | 5180            | Ant2    | 8.43                  | 0                | 8.43              | 24          | Pass    |
| NVNT      | ac20 | 5180            | Sum     | 10.67                 | 0                | 10.67             | 24          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 7.37                  | 0                | 7.37              | 24          | Pass    |
| NVNT      | ac20 | 5200            | Ant2    | 6.9                   | 0                | 6.9               | 24          | Pass    |
| NVNT      | ac20 | 5200            | Sum     | 10.15                 | 0                | 10.15             | 24          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 7.18                  | 0                | 7.18              | 24          | Pass    |
| NVNT      | ac20 | 5240            | Ant2    | 6.48                  | 0                | 6.48              | 24          | Pass    |
| NVNT      | ac20 | 5240            | Sum     | 9.85                  | 0                | 9.85              | 24          | Pass    |
| NVNT      | ac20 | 5260            | Ant1    | 7.64                  | 0                | 7.64              | 24          | Pass    |
| NVNT      | ac20 | 5260            | Ant2    | 7.72                  | 0                | 7.72              | 24          | Pass    |
| NVNT      | ac20 | 5260            | Sum     | 10.69                 | 0                | 10.69             | 24          | Pass    |
| NVNT      | ac20 | 5300            | Ant1    | 7.6                   | 0                | 7.6               | 24          | Pass    |
| NVNT      | ac20 | 5300            | Ant2    | 9.44                  | 0                | 9.44              | 24          | Pass    |
| NVNT      | ac20 | 5300            | Sum     | 11.63                 | 0                | 11.63             | 24          | Pass    |
| NVNT      | ac20 | 5320            | Ant1    | 8                     | 0                | 8                 | 24          | Pass    |
| NVNT      | ac20 | 5320            | Ant2    | 9.42                  | 0                | 9.42              | 24          | Pass    |
| NVNT      | ac20 | 5320            | Sum     | 11.78                 | 0                | 11.78             | 24          | Pass    |
| NVNT      | ac20 | 5500            | Ant1    | 7.57                  | 0                | 7.57              | 24          | Pass    |
| NVNT      | ac20 | 5500            | Ant2    | 4.65                  | 0                | 4.65              | 24          | Pass    |
| NVNT      | ac20 | 5500            | Sum     | 9.36                  | 0                | 9.36              | 24          | Pass    |
| NVNT      | ac20 | 5580            | Ant1    | 6.8                   | 0                | 6.8               | 24          | Pass    |
| NVNT      | ac20 | 5580            | Ant2    | 7.68                  | 0                | 7.68              | 24          | Pass    |
| NVNT      | ac20 | 5580            | Sum     | 10.27                 | 0                | 10.27             | 24          | Pass    |
| NVNT      | ac20 | 5700            | Ant1    | 6.34                  | 0                | 6.34              | 24          | Pass    |
| NVNT      | ac20 | 5700            | Ant2    | 7.41                  | 0                | 7.41              | 24          | Pass    |
| NVNT      | ac20 | 5700            | Sum     | 9.92                  | 0                | 9.92              | 24          | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | 5.21                  | 0                | 5.21              | 30          | Pass    |
| NVNT      | ac20 | 5745            | Ant2    | 5.33                  | 0                | 5.33              | 30          | Pass    |
| NVNT      | ac20 | 5745            | Sum     | 8.28                  | 0                | 8.28              | 30          | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | 5.2                   | 0                | 5.2               | 30          | Pass    |
| NVNT      | ac20 | 5785            | Ant2    | 3.98                  | 0                | 3.98              | 30          | Pass    |
| NVNT      | ac20 | 5785            | Sum     | 7.64                  | 0                | 7.64              | 30          | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | 5.65                  | 0                | 5.65              | 30          | Pass    |
| NVNT      | ac20 | 5825            | Ant2    | 6.1                   | 0                | 6.1               | 30          | Pass    |
| NVNT      | ac20 | 5825            | Sum     | 8.89                  | 0                | 8.89              | 30          | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | 6.06                  | 0                | 6.06              | 24          | Pass    |
| NVNT      | ac40 | 5190            | Ant2    | 7.1                   | 0                | 7.1               | 24          | Pass    |
| NVNT      | ac40 | 5190            | Sum     | 9.62                  | 0                | 9.62              | 24          | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | 7.21                  | 0                | 7.21              | 24          | Pass    |
| NVNT      | ac40 | 5230            | Ant2    | 6.52                  | 0                | 6.52              | 24          | Pass    |
| NVNT      | ac40 | 5230            | Sum     | 9.89                  | 0                | 9.89              | 24          | Pass    |



|      |      |      |      |       |   |       |    |      |
|------|------|------|------|-------|---|-------|----|------|
| NVNT | ac40 | 5270 | Ant1 | 7.39  | 0 | 7.39  | 24 | Pass |
| NVNT | ac40 | 5270 | Ant2 | 8.09  | 0 | 8.09  | 24 | Pass |
| NVNT | ac40 | 5270 | Sum  | 10.76 | 0 | 10.76 | 24 | Pass |
| NVNT | ac40 | 5310 | Ant1 | 7.66  | 0 | 7.66  | 24 | Pass |
| NVNT | ac40 | 5310 | Ant2 | 6.95  | 0 | 6.95  | 24 | Pass |
| NVNT | ac40 | 5310 | Sum  | 10.33 | 0 | 10.33 | 24 | Pass |
| NVNT | ac40 | 5510 | Ant1 | 7.37  | 0 | 7.37  | 24 | Pass |
| NVNT | ac40 | 5510 | Ant2 | 5.72  | 0 | 5.72  | 24 | Pass |
| NVNT | ac40 | 5510 | Sum  | 9.63  | 0 | 9.63  | 24 | Pass |
| NVNT | ac40 | 5550 | Ant1 | 7.25  | 0 | 7.25  | 24 | Pass |
| NVNT | ac40 | 5550 | Ant2 | 7.49  | 0 | 7.49  | 24 | Pass |
| NVNT | ac40 | 5550 | Sum  | 10.38 | 0 | 10.38 | 24 | Pass |
| NVNT | ac40 | 5670 | Ant1 | 6.66  | 0 | 6.66  | 24 | Pass |
| NVNT | ac40 | 5670 | Ant2 | 6.49  | 0 | 6.49  | 24 | Pass |
| NVNT | ac40 | 5670 | Sum  | 9.59  | 0 | 9.59  | 24 | Pass |
| NVNT | ac40 | 5755 | Ant1 | 5.86  | 0 | 5.86  | 30 | Pass |
| NVNT | ac40 | 5755 | Ant2 | 5.46  | 0 | 5.46  | 30 | Pass |
| NVNT | ac40 | 5755 | Sum  | 8.67  | 0 | 8.67  | 30 | Pass |
| NVNT | ac40 | 5795 | Ant1 | 4.91  | 0 | 4.91  | 30 | Pass |
| NVNT | ac40 | 5795 | Ant2 | 5.39  | 0 | 5.39  | 30 | Pass |
| NVNT | ac40 | 5795 | Sum  | 8.17  | 0 | 8.17  | 30 | Pass |
| NVNT | ac80 | 5210 | Ant1 | 6.57  | 0 | 6.57  | 24 | Pass |
| NVNT | ac80 | 5210 | Ant2 | 7.43  | 0 | 7.43  | 24 | Pass |
| NVNT | ac80 | 5210 | Sum  | 10.03 | 0 | 10.03 | 24 | Pass |
| NVNT | ac80 | 5290 | Ant1 | 7.79  | 0 | 7.79  | 24 | Pass |
| NVNT | ac80 | 5290 | Ant2 | 9.16  | 0 | 9.16  | 24 | Pass |
| NVNT | ac80 | 5290 | Sum  | 11.54 | 0 | 11.54 | 24 | Pass |
| NVNT | ac80 | 5530 | Ant1 | 8.26  | 0 | 8.26  | 24 | Pass |
| NVNT | ac80 | 5530 | Ant2 | 7.6   | 0 | 7.6   | 24 | Pass |
| NVNT | ac80 | 5530 | Sum  | 10.95 | 0 | 10.95 | 24 | Pass |
| NVNT | ac80 | 5610 | Ant1 | 6.28  | 0 | 6.28  | 24 | Pass |
| NVNT | ac80 | 5610 | Ant2 | 6.65  | 0 | 6.65  | 24 | Pass |
| NVNT | ac80 | 5610 | Sum  | 9.48  | 0 | 9.48  | 24 | Pass |
| NVNT | ac80 | 5775 | Ant1 | 2.23  | 0 | 2.23  | 30 | Pass |
| NVNT | ac80 | 5775 | Ant2 | 2.58  | 0 | 2.58  | 30 | Pass |
| NVNT | ac80 | 5775 | Sum  | 5.42  | 0 | 5.42  | 30 | Pass |
| NVNT | n20  | 5180 | Ant1 | 6.31  | 0 | 6.31  | 24 | Pass |
| NVNT | n20  | 5180 | Ant2 | 7.19  | 0 | 7.19  | 24 | Pass |
| NVNT | n20  | 5180 | Sum  | 9.78  | 0 | 9.78  | 24 | Pass |
| NVNT | n20  | 5200 | Ant1 | 6.65  | 0 | 6.65  | 24 | Pass |
| NVNT | n20  | 5200 | Ant2 | 6.78  | 0 | 6.78  | 24 | Pass |
| NVNT | n20  | 5200 | Sum  | 9.73  | 0 | 9.73  | 24 | Pass |
| NVNT | n20  | 5240 | Ant1 | 7.36  | 0 | 7.36  | 24 | Pass |
| NVNT | n20  | 5240 | Ant2 | 6     | 0 | 6     | 24 | Pass |
| NVNT | n20  | 5240 | Sum  | 9.74  | 0 | 9.74  | 24 | Pass |
| NVNT | n20  | 5260 | Ant1 | 6.36  | 0 | 6.36  | 24 | Pass |
| NVNT | n20  | 5260 | Ant2 | 6.18  | 0 | 6.18  | 24 | Pass |
| NVNT | n20  | 5260 | Sum  | 9.28  | 0 | 9.28  | 24 | Pass |
| NVNT | n20  | 5300 | Ant1 | 7.68  | 0 | 7.68  | 24 | Pass |
| NVNT | n20  | 5300 | Ant2 | 9.42  | 0 | 9.42  | 24 | Pass |
| NVNT | n20  | 5300 | Sum  | 11.65 | 0 | 11.65 | 24 | Pass |
| NVNT | n20  | 5320 | Ant1 | 7.97  | 0 | 7.97  | 24 | Pass |
| NVNT | n20  | 5320 | Ant2 | 9.29  | 0 | 9.29  | 24 | Pass |
| NVNT | n20  | 5320 | Sum  | 11.69 | 0 | 11.69 | 24 | Pass |
| NVNT | n20  | 5500 | Ant1 | 7.09  | 0 | 7.09  | 24 | Pass |
| NVNT | n20  | 5500 | Ant2 | 5.51  | 0 | 5.51  | 24 | Pass |
| NVNT | n20  | 5500 | Sum  | 9.38  | 0 | 9.38  | 24 | Pass |
| NVNT | n20  | 5580 | Ant1 | 6.56  | 0 | 6.56  | 24 | Pass |
| NVNT | n20  | 5580 | Ant2 | 7.53  | 0 | 7.53  | 24 | Pass |
| NVNT | n20  | 5580 | Sum  | 10.08 | 0 | 10.08 | 24 | Pass |
| NVNT | n20  | 5700 | Ant1 | 6.5   | 0 | 6.5   | 24 | Pass |
| NVNT | n20  | 5700 | Ant2 | 7.16  | 0 | 7.16  | 24 | Pass |
| NVNT | n20  | 5700 | Sum  | 9.85  | 0 | 9.85  | 24 | Pass |
| NVNT | n20  | 5745 | Ant1 | 5.58  | 0 | 5.58  | 30 | Pass |
| NVNT | n20  | 5745 | Ant2 | 6.39  | 0 | 6.39  | 30 | Pass |
| NVNT | n20  | 5745 | Sum  | 9.01  | 0 | 9.01  | 30 | Pass |
| NVNT | n20  | 5785 | Ant1 | 4.83  | 0 | 4.83  | 30 | Pass |
| NVNT | n20  | 5785 | Ant2 | 4.87  | 0 | 4.87  | 30 | Pass |
| NVNT | n20  | 5785 | Sum  | 7.86  | 0 | 7.86  | 30 | Pass |
| NVNT | n20  | 5825 | Ant1 | 3.72  | 0 | 3.72  | 30 | Pass |
| NVNT | n20  | 5825 | Ant2 | 6.54  | 0 | 6.54  | 30 | Pass |



|      |     |      |      |       |   |       |    |      |
|------|-----|------|------|-------|---|-------|----|------|
| NVNT | n20 | 5825 | Sum  | 8.37  | 0 | 8.37  | 30 | Pass |
| NVNT | n40 | 5190 | Ant1 | 5.98  | 0 | 5.98  | 24 | Pass |
| NVNT | n40 | 5190 | Ant2 | 6.64  | 0 | 6.64  | 24 | Pass |
| NVNT | n40 | 5190 | Sum  | 9.33  | 0 | 9.33  | 24 | Pass |
| NVNT | n40 | 5230 | Ant1 | 6.7   | 0 | 6.7   | 24 | Pass |
| NVNT | n40 | 5230 | Ant2 | 6.1   | 0 | 6.1   | 24 | Pass |
| NVNT | n40 | 5230 | Sum  | 9.42  | 0 | 9.42  | 24 | Pass |
| NVNT | n40 | 5270 | Ant1 | 6.79  | 0 | 6.79  | 24 | Pass |
| NVNT | n40 | 5270 | Ant2 | 7.96  | 0 | 7.96  | 24 | Pass |
| NVNT | n40 | 5270 | Sum  | 10.42 | 0 | 10.42 | 24 | Pass |
| NVNT | n40 | 5310 | Ant1 | 7.42  | 0 | 7.42  | 24 | Pass |
| NVNT | n40 | 5310 | Ant2 | 7.31  | 0 | 7.31  | 24 | Pass |
| NVNT | n40 | 5310 | Sum  | 10.38 | 0 | 10.38 | 24 | Pass |
| NVNT | n40 | 5510 | Ant1 | 7.25  | 0 | 7.25  | 24 | Pass |
| NVNT | n40 | 5510 | Ant2 | 5.63  | 0 | 5.63  | 24 | Pass |
| NVNT | n40 | 5510 | Sum  | 9.53  | 0 | 9.53  | 24 | Pass |
| NVNT | n40 | 5550 | Ant1 | 7.13  | 0 | 7.13  | 24 | Pass |
| NVNT | n40 | 5550 | Ant2 | 7.08  | 0 | 7.08  | 24 | Pass |
| NVNT | n40 | 5550 | Sum  | 10.12 | 0 | 10.12 | 24 | Pass |
| NVNT | n40 | 5670 | Ant1 | 5.58  | 0 | 5.58  | 24 | Pass |
| NVNT | n40 | 5670 | Ant2 | 6.37  | 0 | 6.37  | 24 | Pass |
| NVNT | n40 | 5670 | Sum  | 9     | 0 | 9     | 24 | Pass |
| NVNT | n40 | 5755 | Ant1 | 5.27  | 0 | 5.27  | 30 | Pass |
| NVNT | n40 | 5755 | Ant2 | 6.23  | 0 | 6.23  | 30 | Pass |
| NVNT | n40 | 5755 | Sum  | 8.79  | 0 | 8.79  | 30 | Pass |
| NVNT | n40 | 5795 | Ant1 | 5.37  | 0 | 5.37  | 30 | Pass |
| NVNT | n40 | 5795 | Ant2 | 5.39  | 0 | 5.39  | 30 | Pass |
| NVNT | n40 | 5795 | Sum  | 8.39  | 0 | 8.39  | 30 | Pass |

