



# RF TEST REPORT

Product Name: TABLET

Model Name: X23TAB

FCC ID: 2BD6M-X23TAB

Issued For : GO MD USA LLC

3385 Airways Blvd STE 201 Memphis Tennessee 38116  
USA

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

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,  
No.177, Renmin West Road, Jinsha, Kengzi Street,  
Pingshan District, Shenzhen, Guangdong, China

Report Number: LGT23L082RF04

Sample Received Date: Dec. 19, 2023

Date of Test: Dec. 19, 2023 – Jan. 23, 2024

Date of Issue: Jan. 23, 2024

The test report is effective only with both signature and specialized stamp. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report only apply to the tested sample.



## TEST REPORT CERTIFICATION

**Applicant:** GO MD USA LLC

**Address:** 3385 Airways Blvd STE 201 Memphis Tennessee 38116 USA

**Manufacturer:** LHPI Group Ince

**Address:** Piso 8 Torre Universal, Federico Boyd, Panama City, Panama

**Product Name:** TABLET

**Trademark:** GOMDUSA

**Model Name:** X23TAB

**Sample Status:** Normal

| APPLICABLE STANDARDS                           |              |
|------------------------------------------------|--------------|
| STANDARD                                       | TEST RESULTS |
| FCC Part 15.407, Subpart E<br>ANSI C63.10-2013 | PASS         |

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### **Revision History**

| Rev. | Issue Date    | Contents      |
|------|---------------|---------------|
| 00   | Jan. 23, 2024 | Initial Issue |
|      |               |               |



## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Part 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, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, 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        | $\pm 0.68\text{dB}$  |
| 2   | Unwanted Emissions, conducted     | $\pm 2.988\text{dB}$ |
| 3   | All emissions, radiated 9K-30MHz  | $\pm 2.84\text{dB}$  |
| 4   | All emissions, radiated 30M-1GHz  | $\pm 4.39\text{dB}$  |
| 5   | All emissions, radiated 1G-6GHz   | $\pm 5.10\text{dB}$  |
| 6   | All emissions, radiated >6G       | $\pm 5.48\text{dB}$  |
| 7   | Conducted Emission (9KHz-150KHz)  | $\pm 2.79\text{dB}$  |
| 8   | Conducted Emission (150KHz-30MHz) | $\pm 2.80\text{dB}$  |

Note: The measurement uncertainty is not included in the test result.



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF THE EUT

|                                                                               |                                                                                                                                                |                                                     |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 1 GENERAL DESCRIPTION OF THE EUT                                              |                                                                                                                                                |                                                     |
| Product Name:                                                                 | TABLET                                                                                                                                         |                                                     |
| Trademark:                                                                    | GOMDUSA                                                                                                                                        |                                                     |
| Model Name:                                                                   | X23TAB                                                                                                                                         |                                                     |
| Series Model:                                                                 | N/A                                                                                                                                            |                                                     |
| Model Difference:                                                             | N/A                                                                                                                                            |                                                     |
| Product Description:                                                          | Operation Frequency:                                                                                                                           | IEEE 802.11a/n(HT20)/ac(VHT20): 5.180GHz-5.240GHz   |
|                                                                               |                                                                                                                                                | IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz     |
|                                                                               |                                                                                                                                                | IEEE 802.11ac(VHT80): 5.210GHz                      |
|                                                                               |                                                                                                                                                | IEEE 802.11a/n(HT20)/ac(VHT20): 5.260GHz-5.320GHz   |
|                                                                               |                                                                                                                                                | IEEE 802.11 n(HT40)/ac(VHT40): 5.270GHz-5.310GHz    |
|                                                                               |                                                                                                                                                | IEEE 802.11ac(VHT80): 5.290GHz                      |
|                                                                               |                                                                                                                                                | I IEEE 802.11a/n(HT20)/ac(VHT20): 5.745GHz-5.825GHz |
| Modulation Type:                                                              | 802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM<br>802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM<br>802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM |                                                     |
|                                                                               |                                                                                                                                                | IEEE 802.11a/n(HT40)/ac(VHT40): 5.755GHz-5.795GHz   |
|                                                                               |                                                                                                                                                | IEEE 802.11ac(VHT80): 5.775GHz                      |
|                                                                               |                                                                                                                                                |                                                     |
| Antenna Designation:                                                          | FPC                                                                                                                                            |                                                     |
| Antenna Gain(dBi)                                                             | -2.25                                                                                                                                          |                                                     |
| More details of EUT technical specification, please refer to the User Manual. |                                                                                                                                                |                                                     |
| Test Channel:                                                                 | Please refer to the Note 3.                                                                                                                    |                                                     |
| Adapter:                                                                      | Input: 100~240V, 50/60Hz, 0.3A<br>Output: 5V, 2A                                                                                               |                                                     |
| Battery:                                                                      | Capacity: 4000mAh<br>Rated Voltage: 3.8V                                                                                                       |                                                     |
| Hardware Version:                                                             | M863YAR330                                                                                                                                     |                                                     |
| Software Version:                                                             | 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. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



| Operation Frequency of channel |           |                   |           |
|--------------------------------|-----------|-------------------|-----------|
| 5.180GHz-5.240GHz              |           | 5.260GHz-5.320GHz |           |
| Channel                        | Frequency | Channel           | Frequency |
| 36                             | 5180      | 52                | 5260      |
| 38                             | 5190      | 54                | 5270      |
| 40                             | 5200      | 56                | 5280      |
| 42                             | 5210      | 58                | 5290      |
| 44                             | 5220      | 60                | 5300      |
| 46                             | 5230      | 62                | 5310      |
| 48                             | 5240      | 64                | 5320      |
|                                |           |                   |           |
| --                             |           | 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

| Channel List for 802.11a/n/ac(20MHz) |                 |         |                 |         |                 |         |                 |
|--------------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel                              | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 36                                   | 5180            | 52      | 5260            | 149     | 5745            | --      | --              |
| 40                                   | 5200            | 60      | 5300            | 157     | 5785            | --      | --              |
| 48                                   | 5240            | 64      | 5320            | 165     | 5825            | --      | --              |

| Channel List for 802.11n/ac(40MHz) |                 |         |                 |         |                 |         |                 |
|------------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel                            | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 38                                 | 5190            | 54      | 5270            | 151     | 5755            | --      | --              |
| 46                                 | 5230            | 62      | 5310            | 159     | 5795            | --      | --              |
| 134                                | 5670            | --      | --              | --      | --              | --      | --              |

| Channel List for 802.11ac(80MHz) |                 |         |                 |         |                 |         |                 |
|----------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel                          | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 42                               | 5210            | 58      | 5290            | 155     | 5775            | --      | --              |
| 122                              | 5610            | --      | --              | --      | --              | --      | --              |



## 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 CH149&CH157&CH165   | 6 Mbps    |
| Mode 4     | TX IEEE 802.11n HT20 CH36&CH40&CH48      | MCS 0     |
| Mode 5     | TX IEEE 802.11ac VHT20 CH36&CH40&CH48    | NSS1 MCS0 |
| Mode 6     | TX IEEE 802.11n HT20 CH52&CH60&CH64      | MCS 0     |
| Mode 7     | TX IEEE 802.11ac VHT20 CH52&CH60&CH64    | NSS1 MCS0 |
| Mode 8     | TX IEEE 802.11n HT20 CH149&CH157&CH165   | MCS 0     |
| Mode 9     | TX IEEE 802.11ac VHT20 CH149&CH157&CH165 | NSS1 MCS0 |
| Mode 10    | TX IEEE 802.11n HT40 CH38&CH46           | MCS 0     |
| Mode 11    | TX IEEE 802.11ac VHT40 CH38&CH46         | NSS1 MCS0 |
| Mode 12    | TX IEEE 802.11n HT40 CH54 &CH62          | MCS 0     |
| Mode 13    | TX IEEE 802.11ac VHT40 CH54 &CH62        | NSS1 MCS0 |
| Mode 14    | TX IEEE 802.11n HT40 CH151&CH159         | MCS 0     |
| Mode 15    | TX IEEE 802.11ac VHT40 CH151&CH159       | NSS1 MCS0 |
| Mode 16    | TX IEEE 802.11ac VHT80 CH42              | NSS1 MCS0 |
| Mode 17    | TX IEEE 802.11ac VHT80 CH58              | NSS1 MCS0 |
| Mode 18    | TX IEEE 802.11ac VHT80 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.  
(3) We have been tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.  
(4) The battery is fully-charged during the radiated and RF conducted test.

### AC Conducted Emission

| Test Case             |                  |
|-----------------------|------------------|
| AC Conducted Emission | Mode 19: TX Mode |



### 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.

|                       |                          |               |
|-----------------------|--------------------------|---------------|
| Test software Version | Test program: 5G WIFI B1 |               |
| Engineering Mode      | Mode Or Modulation type  | Power setting |
|                       | a                        | 20            |
|                       | n20                      | 18            |
|                       | n40                      | 18            |
|                       | ac20                     | 18            |
|                       | ac40                     | 18            |
|                       | ac80                     | 18            |
| Test software Version | Test program: 5G WIFI B2 |               |
| Engineering Mode      | Mode Or Modulation type  | Power setting |
|                       | a                        | 20            |
|                       | n20                      | 18            |
|                       | n40                      | 18            |
|                       | ac20                     | 18            |
|                       | ac40                     | 18            |
|                       | ac80                     | 18            |
| Test software Version | Test program: 5G WIFI B4 |               |
| Engineering Mode      | Mode Or Modulation type  | Power setting |
|                       | a                        | 20            |
|                       | n20                      | 18            |
|                       | n40                      | 18            |
|                       | ac20                     | 18            |
|                       | ac40                     | 18            |
|                       | ac80                     | 18            |



## 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                                                                               |
|----------------------|--------------|-------------|-----|--------------------------------------------------------------------------------------|
| Adapter              | HJ-PD33W-EU  | HJ-PD33W-US | N/A | Input: 100-240V ~<br>50/60Hz 0.8A<br>Output: 5V, 3A OR 9V,3A<br>OR 12V,2.75A 33W MAX |
| USB-C to USB-C Cable | N/A          | N/A         | N/A | 1m, shielded, without ferrite core                                                   |
|                      |              |             |     |                                                                                      |

### Auxiliary Equipment

| Description | Manufacturer | Model    | S/N | Rating |
|-------------|--------------|----------|-----|--------|
| Laptop      | Lenovo       | HKF-16   | N/A | N/A    |
| Earphone    | VESAFE       | 39630078 | N/A | N/A    |
|             |              |          |     |        |

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

| Conducted Emission     |                     |           |             |            |            |
|------------------------|---------------------|-----------|-------------|------------|------------|
| Equipment              | Manufacturer        | Model No. | Serial No.  | Cal. Date  | Cal. Until |
| EMI Test Receiver      | R&S                 | ESU8      | 100372      | 2023.04.13 | 2024.04.12 |
| LISN                   | COM-POWER           | LI-115    | 02032       | 2023.04.07 | 2024.04.06 |
| LISN                   | SCHWARZBECK         | NNLK 8122 | 00160       | 2023.04.07 | 2024.04.06 |
| Transient Limiter      | CYBERTEK            | EM5010A   | E2250100049 | 2023.04.07 | 2024.04.06 |
| Temperature & Humidity | KTJ                 | TA218B    | N.A         | 2023.04.24 | 2024.04.23 |
| Testing Software       | EMC-I_V1.4.0.3_SKET |           |             |            |            |

| RF Radiated Test equipment   |                     |           |            |            |            |
|------------------------------|---------------------|-----------|------------|------------|------------|
| Equipment                    | Manufacturer        | Model No. | Serial No. | Cal. Date  | Cal. Until |
| EMI Test Receiver            | R&S                 | ESU8      | 100372     | 2023.04.13 | 2024.04.12 |
| Active loop Antenna          | ETS                 | 6502      | 00049544   | 2022.06.02 | 2025.06.01 |
| Spectrum Analyzer            | Keysight            | N9010B    | MY60242508 | 2023.08.14 | 2024.08.13 |
| Bilog Antenna                | Schwarzbeck         | VULB 9168 | 01447      | 2022.12.12 | 2025.12.11 |
| Horn Antenna                 | Schwarzbeck         | 3115      | 10SL0060   | 2022.06.02 | 2025.06.01 |
| Pre-amplifier<br>(9kHz-1GHz) | EMtrace             | RP01A     | 02017      | 2023.04.07 | 2024.04.06 |
| Pre-amplifier<br>(1-26.5G)   | Agilent             | 8449B     | 3008A4722  | 2023.04.07 | 2024.04.06 |
| Temperature & Humidity       | KTJ                 | TA218B    | N.A        | 2023.04.24 | 2024.04.23 |
| Testing Software             | EMC-I_V1.4.0.3_SKET |           |            |            |            |

| RF Conducted Test equipment           |                     |            |                |            |            |
|---------------------------------------|---------------------|------------|----------------|------------|------------|
| Equipment                             | Manufacturer        | Model No.  | Serial No.     | Cal. Date  | Cal. Until |
| Signal Analyzer                       | Keysight            | N9010B     | MY60242508     | 2023.08.14 | 2024.08.13 |
| Signal Analyzer                       | Keysight            | N9020A     | MY50530994     | 2023.10.12 | 2024.10.10 |
| RF Automatic Test<br>system           | MW                  | MW200-RFCB | MW220322L<br>G | 2023.04.13 | 2024.04.12 |
| MXG Vector Signal<br>Generator        | Keysight            | N5182B     | MY59100717     | 2023.04.07 | 2024.04.06 |
| Temperature& Humidity<br>test chamber | AISRY               | LX-1000L   | 171200018      | 2023.08.14 | 2024.08.13 |
| Attenuator                            | eastsheep           | 90db       | N.A            | 2023.04.10 | 2024.04.09 |
| Temperature & Humidity                | KTJ                 | TA218B     | N.A            | 2023.04.24 | 2024.04.23 |
| Digital multimeter                    | MASTECH             | MS8261     | MBGBC8305<br>3 | 2023.08.14 | 2024.08.13 |
| Testing Software                      | MTS8310_V2.0.0.0_MW |            |                |            |            |



### 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    |



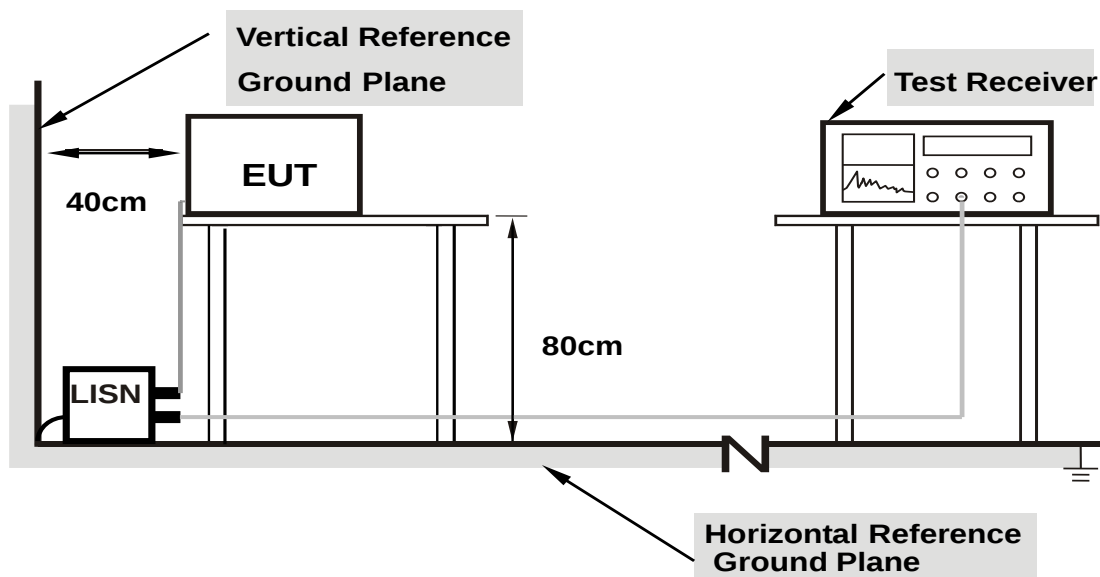
### 3.1.2 TEST PROCEDURE

- 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.**

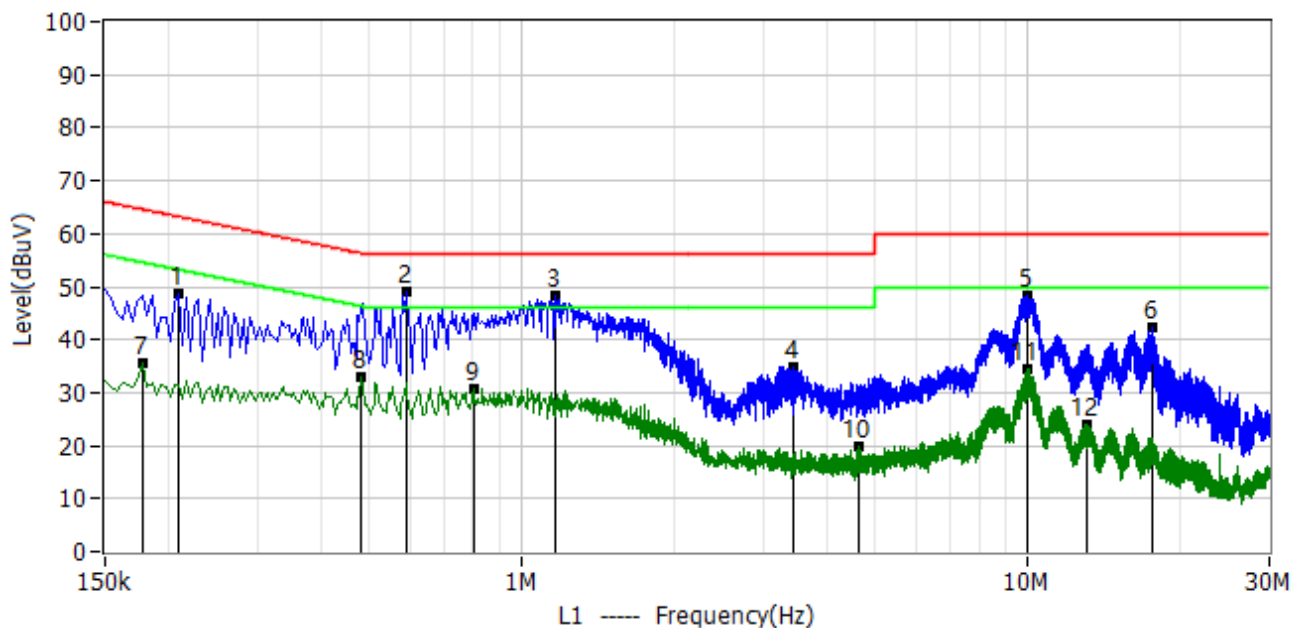
### 3.1.5 EUT OPERATING CONDITIONS

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

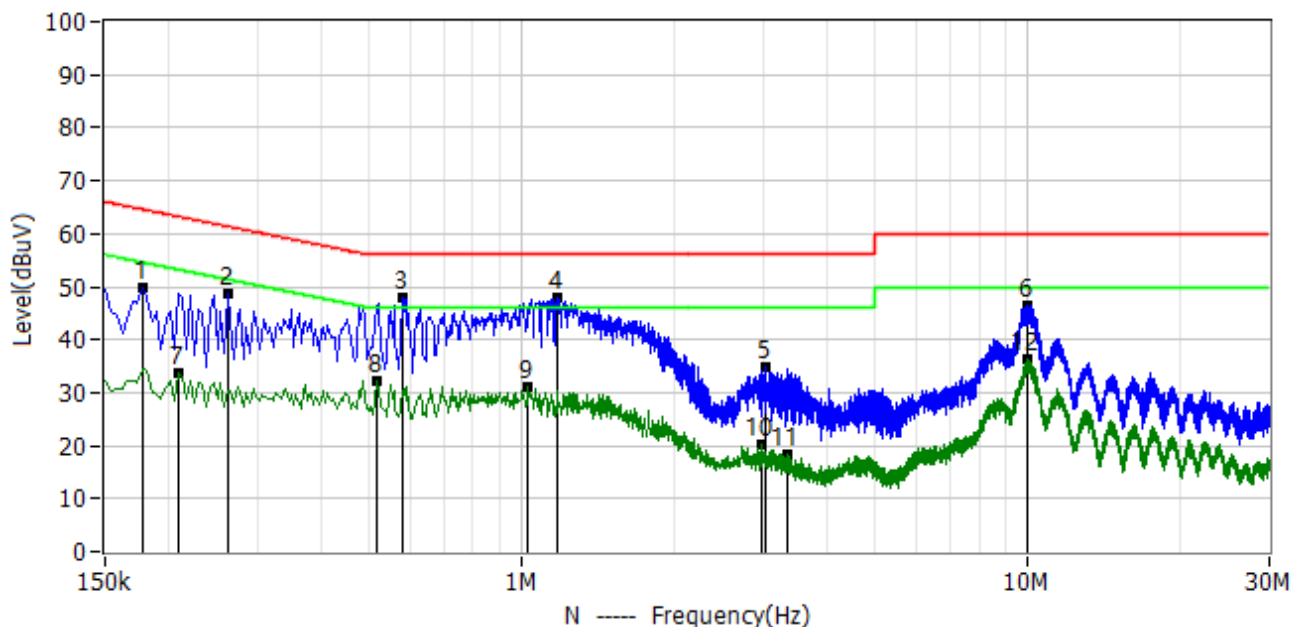
|                            |                       |
|----------------------------|-----------------------|
| Project: LGT23L082         | Test Engineer: LiuH   |
| EUT: TABLET                | Temperature: 15.8°C   |
| M/N: X23TAB                | Humidity: 39%RH       |
| Test Voltage: AC 120V/60Hz | Test Data: 2023-12-24 |
| Test Mode: TX 802.11a 5180 |                       |
| Note:                      |                       |



| No. | Frequency<br>MHz | Reading<br>dBuV | Factor<br>dB | Level<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Polar |
|-----|------------------|-----------------|--------------|---------------|---------------|--------------|----------|-------|
| 1*  | 0.210            | 38.23           | 10.49        | 48.72         | 63.21         | -14.49       | QP       | L1    |
| 2*  | 0.590            | 38.48           | 10.50        | 48.98         | 56.00         | -7.02        | QP       | L1    |
| 3*  | 1.166            | 37.69           | 10.55        | 48.24         | 56.00         | -7.76        | QP       | L1    |
| 4*  | 3.438            | 24.24           | 10.76        | 35.00         | 56.00         | -21.00       | QP       | L1    |
| 5*  | 9.998            | 37.35           | 10.96        | 48.31         | 60.00         | -11.69       | QP       | L1    |
| 6*  | 17.614           | 31.30           | 11.10        | 42.40         | 60.00         | -17.60       | QP       | L1    |
| 7*  | 0.178            | 25.15           | 10.49        | 35.64         | 54.58         | -18.94       | AV       | L1    |
| 8*  | 0.482            | 22.35           | 10.50        | 32.85         | 46.30         | -13.45       | AV       | L1    |
| 9*  | 0.802            | 20.33           | 10.51        | 30.84         | 46.00         | -15.16       | AV       | L1    |
| 10* | 4.630            | 9.01            | 10.79        | 19.80         | 46.00         | -26.20       | AV       | L1    |
| 11* | 9.998            | 23.46           | 10.96        | 34.42         | 50.00         | -15.58       | AV       | L1    |
| 12* | 13.086           | 13.05           | 10.98        | 24.03         | 50.00         | -25.97       | AV       | L1    |



|                            |                       |
|----------------------------|-----------------------|
| Project: LGT23L082         | Test Engineer: LiuH   |
| EUT: TABLET                | Temperature: 15.8°C   |
| M/N: X23TAB                | Humidity: 39%RH       |
| Test Voltage: AC 120V/60Hz | Test Data: 2023-12-24 |
| Test Mode: TX 802.11a 5180 |                       |
| Note:                      |                       |



| No. | Frequency MHz | Reading dBuV | Factor dB | Level dBuV | Limit dBuV | Margin dB | Detector | Polar |
|-----|---------------|--------------|-----------|------------|------------|-----------|----------|-------|
| 1*  | 0.178         | 39.40        | 10.49     | 49.89      | 64.58      | -14.68    | QP       | N     |
| 2*  | 0.262         | 38.19        | 10.49     | 48.68      | 61.37      | -12.68    | QP       | N     |
| 3*  | 0.582         | 37.54        | 10.50     | 48.04      | 56.00      | -7.96     | QP       | N     |
| 4*  | 1.170         | 37.25        | 10.55     | 47.80      | 56.00      | -8.20     | QP       | N     |
| 5*  | 3.034         | 24.13        | 10.75     | 34.88      | 56.00      | -21.12    | QP       | N     |
| 6*  | 9.994         | 35.58        | 10.98     | 46.56      | 60.00      | -13.44    | QP       | N     |
| 7*  | 0.210         | 23.22        | 10.49     | 33.71      | 53.21      | -19.49    | AV       | N     |
| 8*  | 0.518         | 21.89        | 10.50     | 32.39      | 46.00      | -13.61    | AV       | N     |
| 9*  | 1.030         | 20.42        | 10.52     | 30.94      | 46.00      | -15.06    | AV       | N     |
| 10* | 2.966         | 9.49         | 10.75     | 20.24      | 46.00      | -25.76    | AV       | N     |
| 11* | 3.358         | 7.68         | 10.76     | 18.44      | 46.00      | -27.56    | AV       | N     |
| 12* | 9.970         | 25.42        | 10.98     | 36.40      | 50.00      | -13.60    | AV       | N     |



### 3.2 RADIATED EMISSION AND ( BANDEGE) 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 (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (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:  $\text{dBuV/m(at 3M)} = \text{EIRP(dBm)} + 95.3$ .

Peak Limit =  $-27\text{dBm/MHz} + 95.3 = 68.3 \text{ dBuV/m}$ .

| 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

- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- 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.
- 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.
- 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

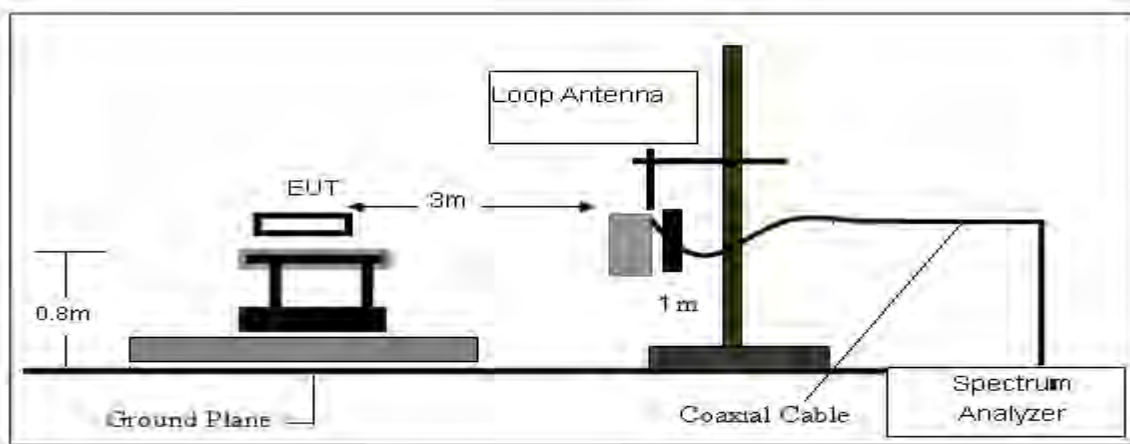
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

### 3.2.2 DEVIATION FROM TEST STANDARD

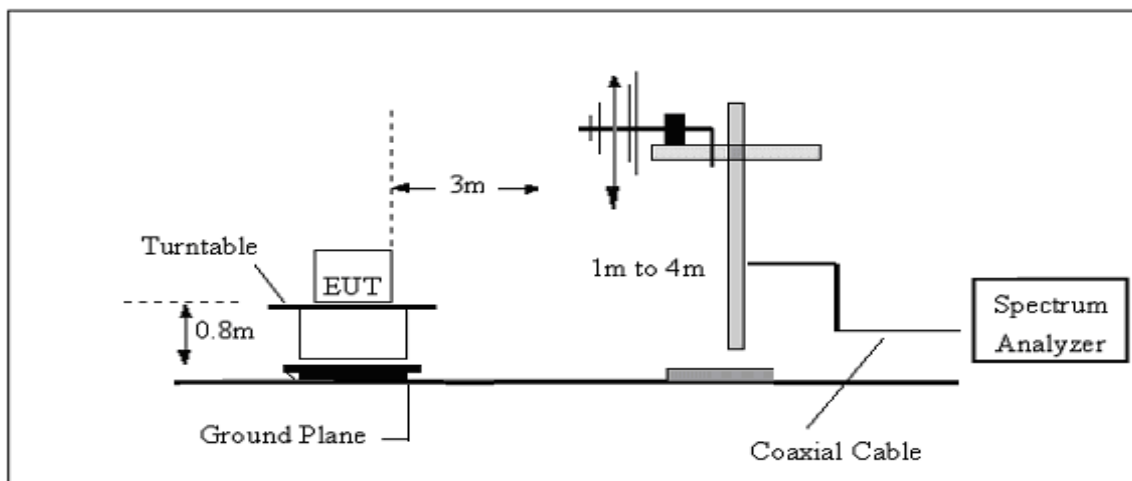
No deviation

### 3.2.3 TEST SETUP

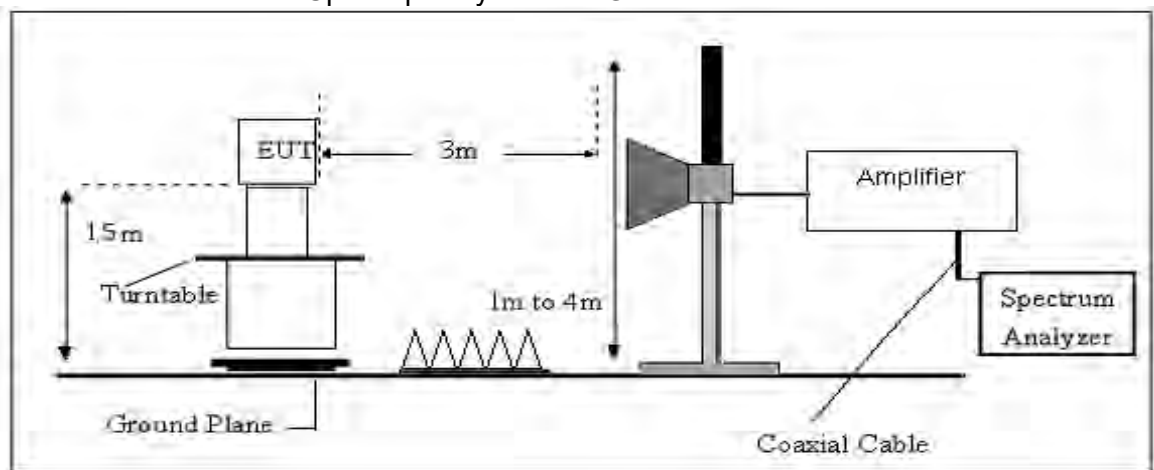
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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

Results of Radiated Emissions (9 KHz~30MHz)

| No. | Frequency | Reading<br>dBuV | Factor<br>dB/m | Level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Remark   |
|-----|-----------|-----------------|----------------|-----------------|-----------------|--------------|----------|----------|
| 1*  | -         | -               | -              | -               | -               | -            | -        | See Note |

Note:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

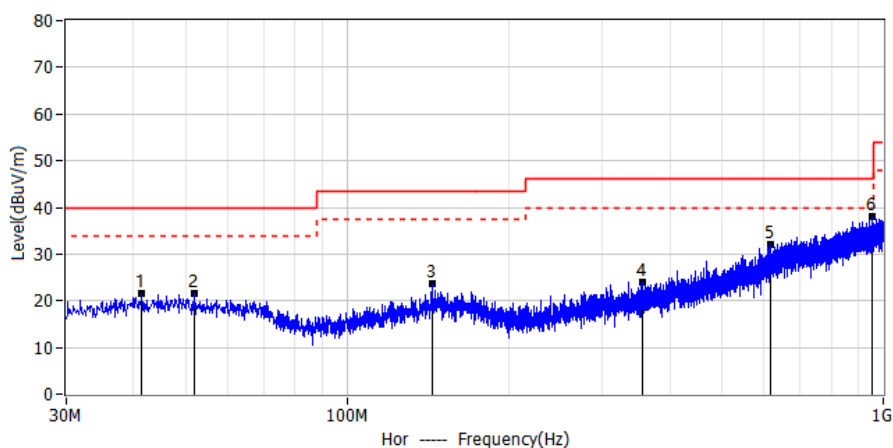
Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

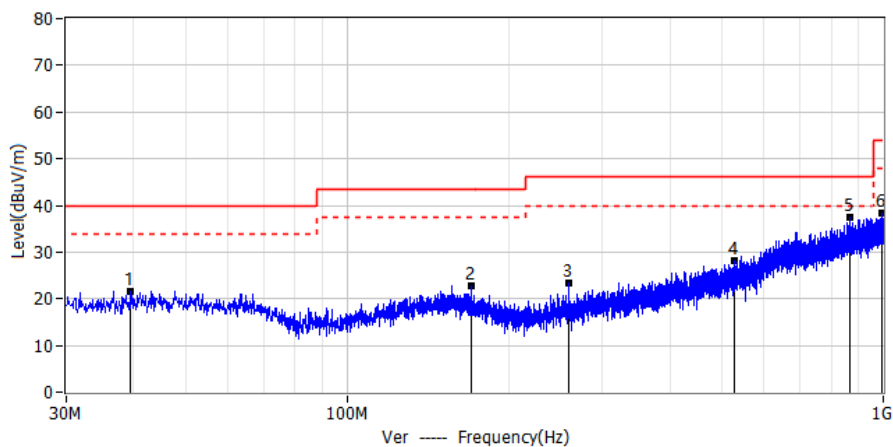


## Results of Radiated Emissions (30MHz~1000MHz)

|                            |                             |
|----------------------------|-----------------------------|
| Project: LGT23L082         | Test Engineer: Xiangdong Ma |
| EUT: TABLET                | Temperature: 20°C           |
| M/N: X23TAB                | Humidity: 55%RH             |
| Test Voltage: Battery      | Test Data: 2023-12-23       |
| Test Mode: TX 802.11a 5180 |                             |
| Note:                      |                             |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 41.519        | 2.29         | 19.33       | 21.62        | 40.00        | -18.38    | QP       | Hor   |
| 2*  | 51.946        | 2.36         | 19.22       | 21.58        | 40.00        | -18.42    | QP       | Hor   |
| 3*  | 144.218       | 4.12         | 19.44       | 23.56        | 43.50        | -19.94    | QP       | Hor   |
| 4*  | 355.193       | 2.60         | 21.37       | 23.97        | 46.00        | -22.03    | QP       | Hor   |
| 5*  | 617.941       | 3.63         | 28.34       | 31.97        | 46.00        | -14.03    | QP       | Hor   |
| 6*  | 953.683       | 4.03         | 34.03       | 38.06        | 46.00        | -7.94     | QP       | Hor   |

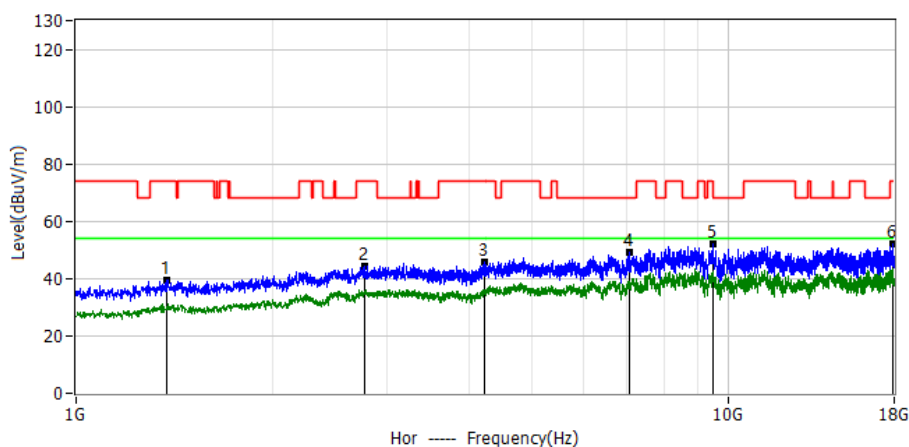


| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 39.579        | 2.36         | 19.31       | 21.67        | 40.00        | -18.33    | QP       | Ver   |
| 2*  | 170.650       | 3.05         | 19.72       | 22.77        | 43.50        | -20.73    | QP       | Ver   |
| 3*  | 259.163       | 4.68         | 18.67       | 23.35        | 46.00        | -22.65    | QP       | Ver   |
| 4*  | 528.338       | 2.59         | 25.61       | 28.20        | 46.00        | -17.80    | QP       | Ver   |
| 5*  | 865.291       | 4.81         | 32.67       | 37.48        | 46.00        | -8.52     | QP       | Ver   |
| 6*  | 993.210       | 3.80         | 34.54       | 38.34        | 54.00        | -15.66    | QP       | Ver   |



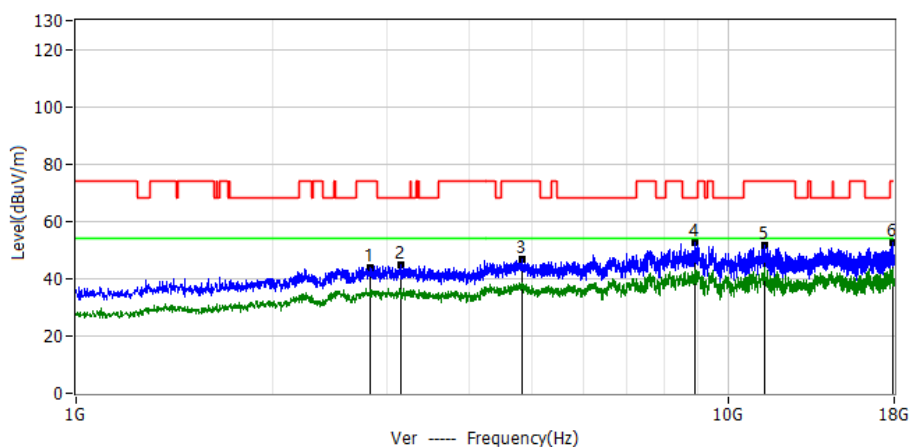
## Results of Radiated Emissions (Above 1000MHz)

|                         |
|-------------------------|
| Test Mode: 802.11a 5180 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 1374.0000     | 60.93        | -21.67      | 39.26        | 74.00        | -34.74    | PK       | Hor   |
| 2*  | 2765.9000     | 54.26        | -9.96       | 44.30        | 74.00        | -29.70    | PK       | Hor   |
| 3*  | 4230.0000     | 53.15        | -7.59       | 45.56        | 74.00        | -28.44    | PK       | Hor   |
| 4*  | 7062.6000     | 55.90        | -6.81       | 49.09        | 68.20        | -19.11    | PK       | Hor   |
| 5*  | 9495.7000     | 55.94        | -3.92       | 52.02        | 74.00        | -21.98    | PK       | Hor   |
| 6*  | 17934.1000    | 49.98        | 1.99        | 51.97        | 74.00        | -22.03    | PK       | Hor   |

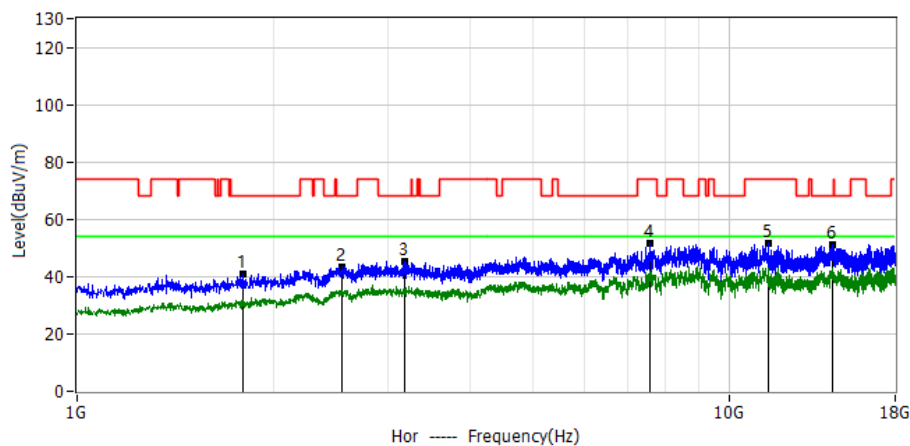
|                         |
|-------------------------|
| Test Mode: 802.11a 5180 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 2831.7000     | 53.42        | -9.62       | 43.80        | 74.00        | -30.20    | PK       | Ver   |
| 2*  | 3142.0000     | 53.45        | -8.85       | 44.60        | 68.20        | -23.60    | PK       | Ver   |
| 3*  | 4831.4000     | 53.69        | -6.83       | 46.86        | 74.00        | -27.14    | PK       | Ver   |
| 4*  | 8911.4000     | 56.35        | -3.83       | 52.52        | 68.20        | -15.68    | PK       | Ver   |
| 5*  | 11387.0000    | 53.47        | -1.84       | 51.63        | 74.00        | -22.37    | PK       | Ver   |
| 6*  | 17917.1000    | 50.67        | 1.98        | 52.65        | 74.00        | -21.35    | PK       | Ver   |

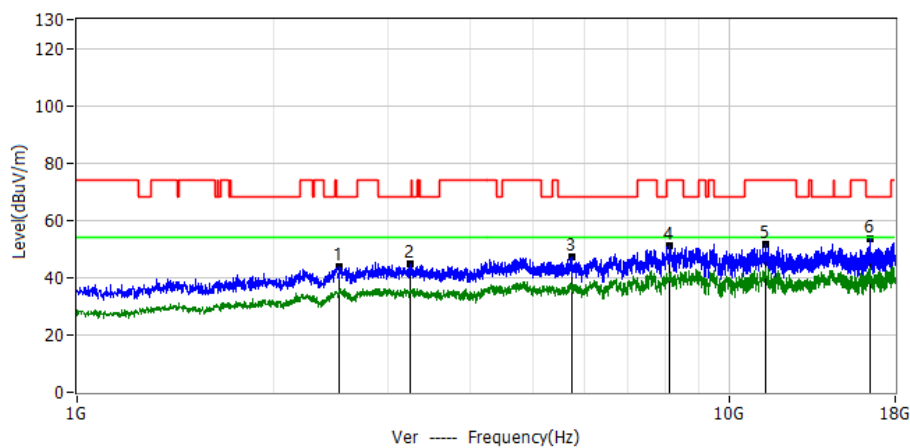


|                         |
|-------------------------|
| Test Mode: 802.11a 5200 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 1801.1000     | 59.35        | -18.41      | 40.94        | 68.20        | -27.26    | PK       | Hor   |
| 2*  | 2547.0000     | 54.50        | -11.07      | 43.43        | 68.20        | -24.77    | PK       | Hor   |
| 3*  | 3180.2000     | 54.18        | -8.87       | 45.31        | 68.20        | -22.89    | PK       | Hor   |
| 4*  | 7572.6000     | 57.35        | -5.66       | 51.69        | 74.00        | -22.31    | PK       | Hor   |
| 5*  | 11489.0000    | 53.55        | -1.83       | 51.72        | 74.00        | -22.28    | PK       | Hor   |
| 6*  | 14415.1000    | 50.31        | 0.70        | 51.01        | 68.20        | -17.19    | PK       | Hor   |

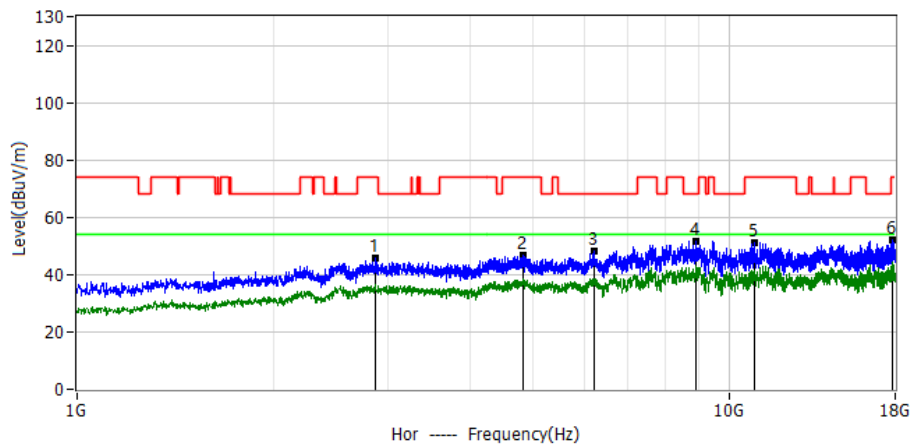
|                         |
|-------------------------|
| Test Mode: 802.11a 5200 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 2523.6000     | 54.78        | -11.19      | 43.59        | 68.20        | -24.61    | PK       | Ver   |
| 2*  | 3244.0000     | 53.81        | -8.90       | 44.91        | 68.20        | -23.29    | PK       | Ver   |
| 3*  | 5732.4000     | 55.78        | -8.66       | 47.12        | 68.20        | -21.08    | PK       | Ver   |
| 4*  | 8125.1000     | 56.19        | -5.27       | 50.92        | 74.00        | -23.08    | PK       | Ver   |
| 5*  | 11382.7000    | 53.63        | -1.84       | 51.79        | 74.00        | -22.21    | PK       | Ver   |
| 6*  | 16461.5000    | 52.67        | 0.86        | 53.53        | 68.20        | -14.67    | PK       | Ver   |

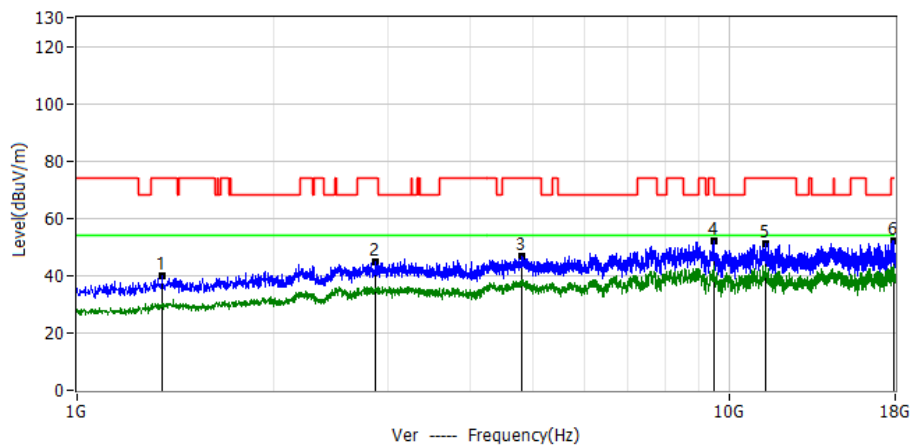


|                         |
|-------------------------|
| Test Mode: 802.11a 5240 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 2863.6000     | 55.22        | -9.46       | 45.76        | 74.00        | -28.24    | PK       | Hor   |
| 2*  | 4825.0000     | 53.60        | -6.82       | 46.78        | 74.00        | -27.22    | PK       | Hor   |
| 3*  | 6202.0000     | 56.38        | -8.26       | 48.12        | 68.20        | -20.08    | PK       | Hor   |
| 4*  | 8913.5000     | 55.48        | -3.83       | 51.65        | 68.20        | -16.55    | PK       | Hor   |
| 5*  | 10942.9000    | 53.27        | -2.00       | 51.27        | 74.00        | -22.73    | PK       | Hor   |
| 6*  | 17815.1000    | 50.28        | 1.94        | 52.22        | 74.00        | -21.78    | PK       | Hor   |

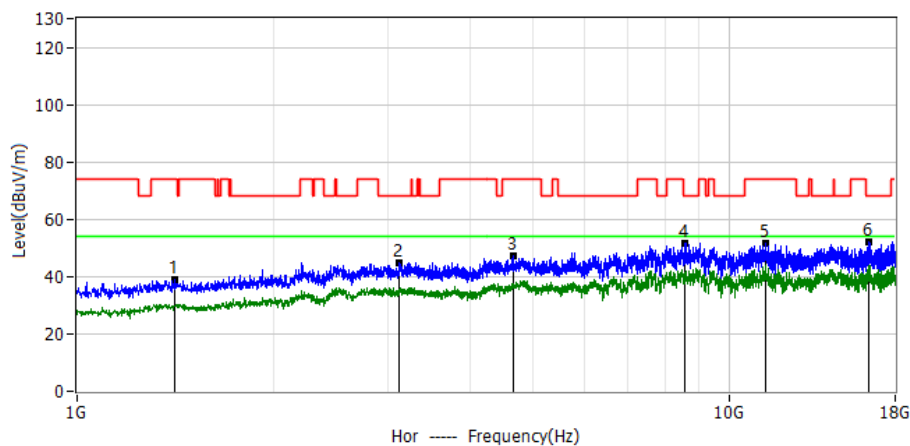
|                         |
|-------------------------|
| Test Mode: 802.11a 5240 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 1350.6000     | 61.85        | -21.85      | 40.00        | 74.00        | -34.00    | PK       | Ver   |
| 2*  | 2874.2000     | 54.30        | -9.41       | 44.89        | 74.00        | -29.11    | PK       | Ver   |
| 3*  | 4816.5000     | 53.36        | -6.82       | 46.54        | 74.00        | -27.46    | PK       | Ver   |
| 4*  | 9478.7000     | 55.84        | -3.91       | 51.93        | 74.00        | -22.07    | PK       | Ver   |
| 5*  | 11387.0000    | 52.91        | -1.84       | 51.07        | 74.00        | -22.93    | PK       | Ver   |
| 6*  | 17927.7000    | 50.28        | 1.99        | 52.27        | 74.00        | -21.73    | PK       | Ver   |

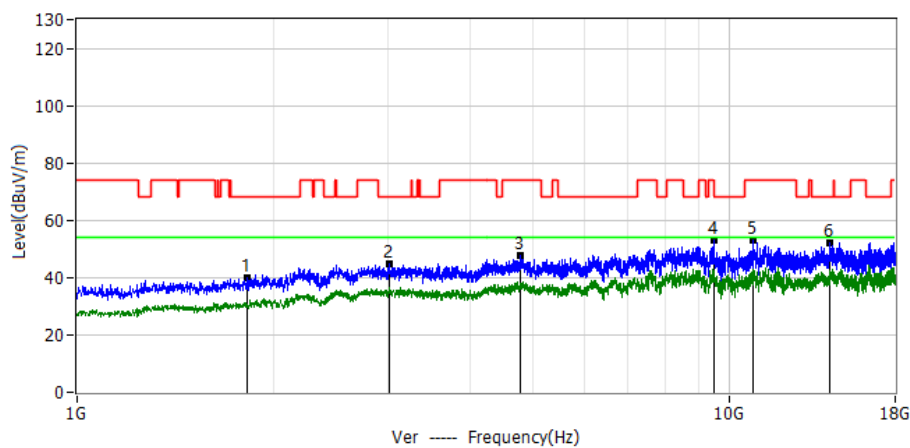


|                         |
|-------------------------|
| Test Mode: 802.11a 5260 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 1410.1000     | 60.32        | -21.42      | 38.90        | 74.00        | -35.10    | PK       | Hor   |
| 2*  | 3122.9000     | 53.54        | -8.84       | 44.70        | 68.20        | -23.50    | PK       | Hor   |
| 3*  | 4674.1000     | 54.09        | -6.68       | 47.41        | 74.00        | -26.59    | PK       | Hor   |
| 4*  | 8577.7000     | 56.02        | -4.44       | 51.58        | 68.20        | -16.62    | PK       | Hor   |
| 5*  | 11391.2000    | 53.62        | -1.83       | 51.79        | 74.00        | -22.21    | PK       | Hor   |
| 6*  | 16357.4000    | 51.27        | 0.73        | 52.00        | 68.20        | -16.20    | PK       | Hor   |

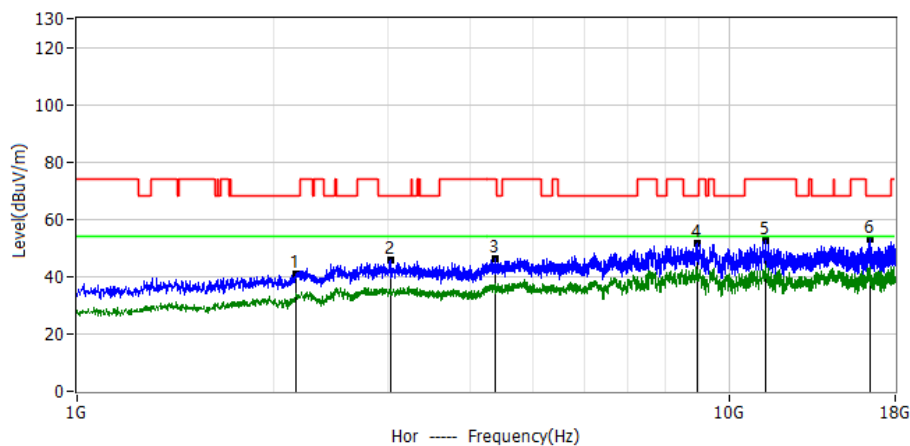
|                         |
|-------------------------|
| Test Mode: 802.11a 5260 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 1824.5000     | 57.97        | -18.18      | 39.79        | 68.20        | -28.41    | PK       | Ver   |
| 2*  | 3006.0000     | 53.37        | -8.77       | 44.60        | 68.20        | -23.60    | PK       | Ver   |
| 3*  | 4784.6000     | 54.47        | -6.79       | 47.68        | 74.00        | -26.32    | PK       | Ver   |
| 4*  | 9480.9000     | 57.10        | -3.92       | 53.18        | 74.00        | -20.82    | PK       | Ver   |
| 5*  | 10915.2000    | 55.22        | -2.07       | 53.15        | 74.00        | -20.85    | PK       | Ver   |
| 6*  | 14313.1000    | 51.58        | 0.74        | 52.32        | 68.20        | -15.88    | PK       | Ver   |

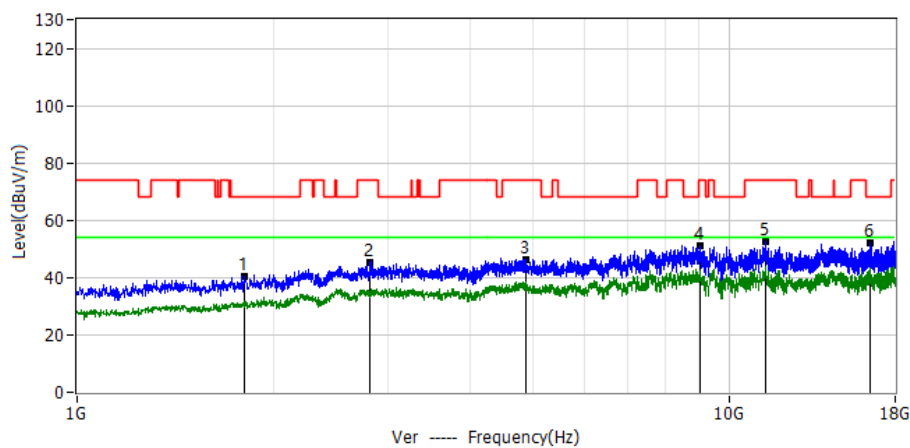


|                         |
|-------------------------|
| Test Mode: 802.11a 5300 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 2170.9000     | 55.74        | -14.69      | 41.05        | 68.20        | -27.15    | PK       | Hor   |
| 2*  | 3025.1000     | 54.79        | -8.78       | 46.01        | 68.20        | -22.19    | PK       | Hor   |
| 3*  | 4376.6000     | 53.37        | -7.00       | 46.37        | 74.00        | -27.63    | PK       | Hor   |
| 4*  | 8924.1000     | 55.28        | -3.81       | 51.47        | 68.20        | -16.73    | PK       | Hor   |
| 5*  | 11384.9000    | 54.40        | -1.84       | 52.56        | 74.00        | -21.44    | PK       | Hor   |
| 6*  | 16457.2000    | 52.00        | 0.86        | 52.86        | 68.20        | -15.34    | PK       | Hor   |

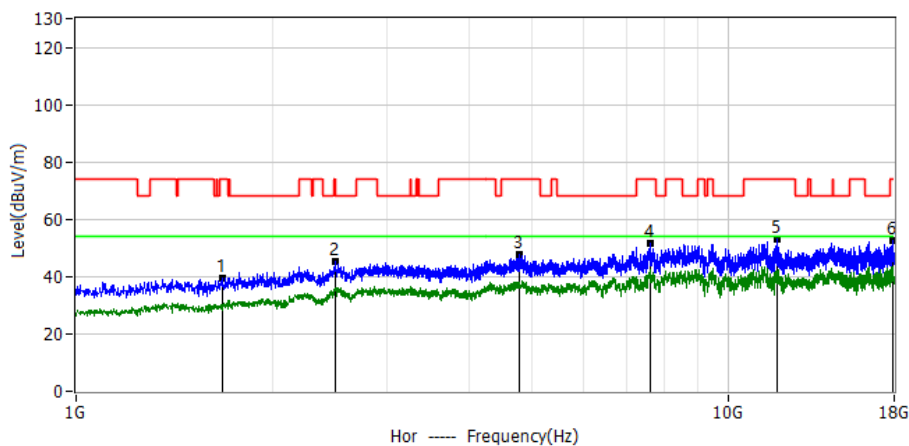
|                         |
|-------------------------|
| Test Mode: 802.11a 5300 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 1803.2000     | 58.77        | -18.39      | 40.38        | 68.20        | -27.82    | PK       | Ver   |
| 2*  | 2806.2000     | 55.23        | -9.75       | 45.48        | 74.00        | -28.52    | PK       | Ver   |
| 3*  | 4888.7000     | 53.35        | -6.89       | 46.46        | 74.00        | -27.54    | PK       | Ver   |
| 4*  | 9028.2000     | 54.59        | -3.68       | 50.91        | 74.00        | -23.09    | PK       | Ver   |
| 5*  | 11389.1000    | 54.24        | -1.83       | 52.41        | 74.00        | -21.59    | PK       | Ver   |
| 6*  | 16463.6000    | 51.18        | 0.87        | 52.05        | 68.20        | -16.15    | PK       | Ver   |

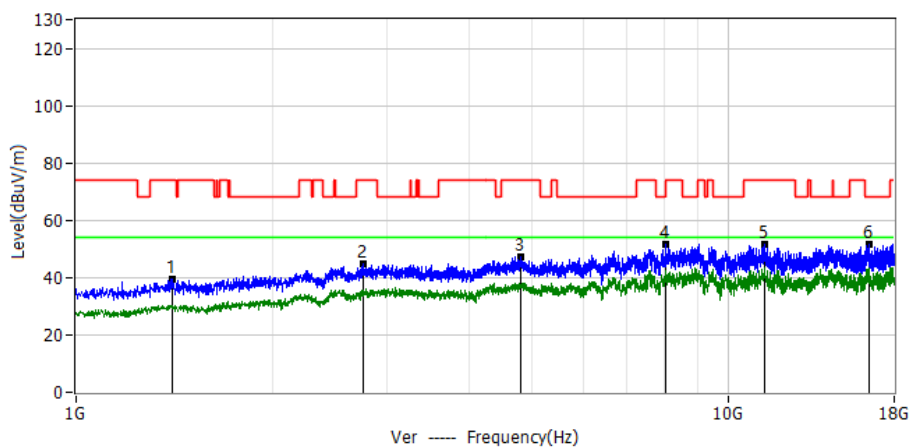


|                         |
|-------------------------|
| Test Mode: 802.11a 5320 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 1675.7000     | 59.24        | -19.59      | 39.65        | 74.00        | -34.35    | PK       | Hor   |
| 2*  | 2500.2000     | 56.69        | -11.31      | 45.38        | 68.20        | -22.82    | PK       | Hor   |
| 3*  | 4788.9000     | 54.54        | -6.79       | 47.75        | 74.00        | -26.25    | PK       | Hor   |
| 4*  | 7585.4000     | 57.28        | -5.66       | 51.62        | 74.00        | -22.38    | PK       | Hor   |
| 5*  | 11928.9000    | 54.83        | -1.79       | 53.04        | 74.00        | -20.96    | PK       | Hor   |
| 6*  | 17915.0000    | 50.48        | 1.98        | 52.46        | 74.00        | -21.54    | PK       | Hor   |

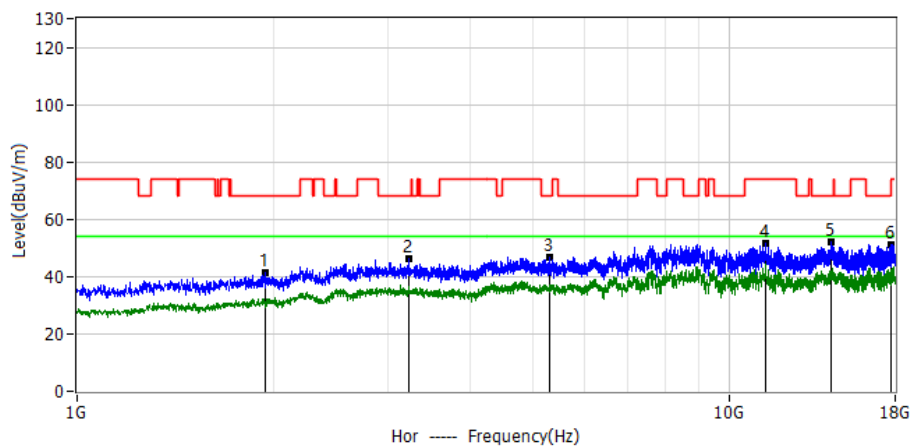
|                         |
|-------------------------|
| Test Mode: 802.11a 5320 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 1405.9000     | 60.97        | -21.44      | 39.53        | 74.00        | -34.47    | PK       | Ver   |
| 2*  | 2755.2000     | 54.59        | -10.01      | 44.58        | 74.00        | -29.42    | PK       | Ver   |
| 3*  | 4801.6000     | 54.22        | -6.80       | 47.42        | 74.00        | -26.58    | PK       | Ver   |
| 4*  | 8012.5000     | 57.07        | -5.48       | 51.59        | 68.20        | -16.61    | PK       | Ver   |
| 5*  | 11372.1000    | 53.28        | -1.84       | 51.44        | 74.00        | -22.56    | PK       | Ver   |
| 6*  | 16461.5000    | 50.82        | 0.86        | 51.68        | 68.20        | -16.52    | PK       | Ver   |

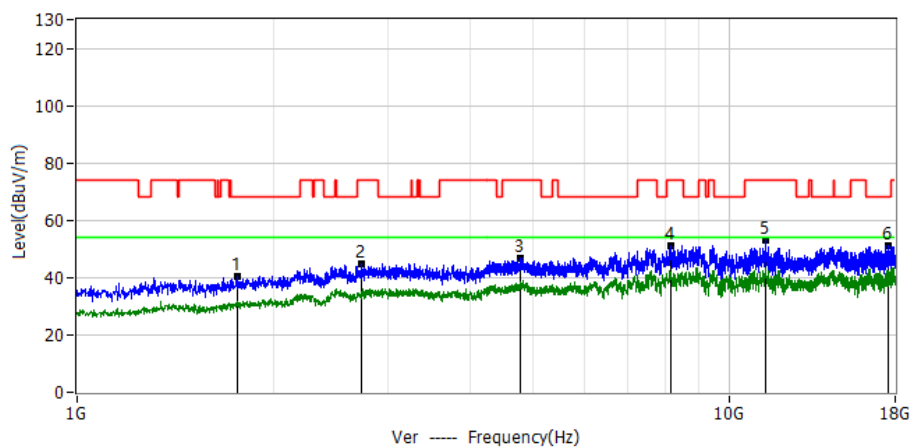


|                         |
|-------------------------|
| Test Mode: 802.11a 5745 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 1941.4000     | 58.32        | -17.03      | 41.29        | 68.20        | -26.91    | PK       | Hor   |
| 2*  | 3220.6000     | 55.11        | -8.89       | 46.22        | 68.20        | -21.98    | PK       | Hor   |
| 3*  | 5315.9000     | 54.74        | -8.08       | 46.66        | 68.20        | -21.54    | PK       | Hor   |
| 4*  | 11387.0000    | 53.22        | -1.84       | 51.38        | 74.00        | -22.62    | PK       | Hor   |
| 5*  | 14340.7000    | 51.14        | 0.73        | 51.87        | 68.20        | -16.33    | PK       | Hor   |
| 6*  | 17704.6000    | 49.18        | 1.89        | 51.07        | 74.00        | -22.93    | PK       | Hor   |

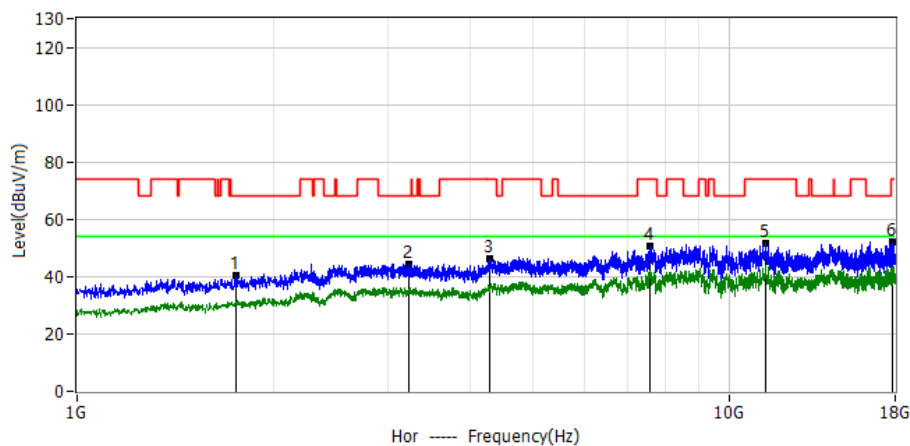
|                         |
|-------------------------|
| Test Mode: 802.11a 5745 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 1765.0000     | 59.38        | -18.75      | 40.63        | 68.20        | -27.57    | PK       | Ver   |
| 2*  | 2731.9000     | 54.79        | -10.13      | 44.66        | 74.00        | -29.34    | PK       | Ver   |
| 3*  | 4795.2000     | 53.46        | -6.80       | 46.66        | 74.00        | -27.34    | PK       | Ver   |
| 4*  | 8133.6000     | 56.56        | -5.26       | 51.30        | 74.00        | -22.70    | PK       | Ver   |
| 5*  | 11391.2000    | 54.80        | -1.83       | 52.97        | 74.00        | -21.03    | PK       | Ver   |
| 6*  | 17583.5000    | 49.40        | 1.83        | 51.23        | 68.20        | -16.97    | PK       | Ver   |

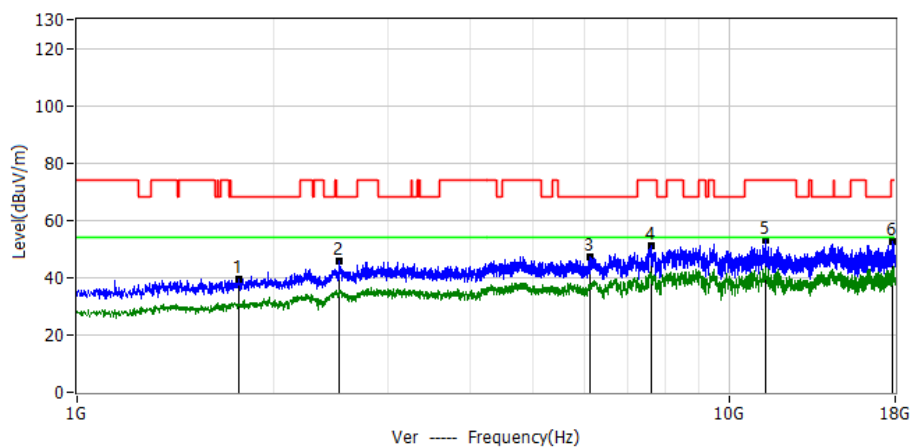


|                         |
|-------------------------|
| Test Mode: 802.11a 5785 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 1750.1000     | 59.23        | -18.89      | 40.34        | 68.20        | -27.86    | PK       | Hor   |
| 2*  | 3235.5000     | 53.30        | -8.90       | 44.40        | 68.20        | -23.80    | PK       | Hor   |
| 3*  | 4302.2000     | 53.43        | -7.30       | 46.13        | 74.00        | -27.87    | PK       | Hor   |
| 4*  | 7583.2000     | 56.26        | -5.66       | 50.60        | 74.00        | -23.40    | PK       | Hor   |
| 5*  | 11374.2000    | 53.29        | -1.84       | 51.45        | 74.00        | -22.55    | PK       | Hor   |
| 6*  | 17815.1000    | 50.33        | 1.94        | 52.27        | 74.00        | -21.73    | PK       | Hor   |

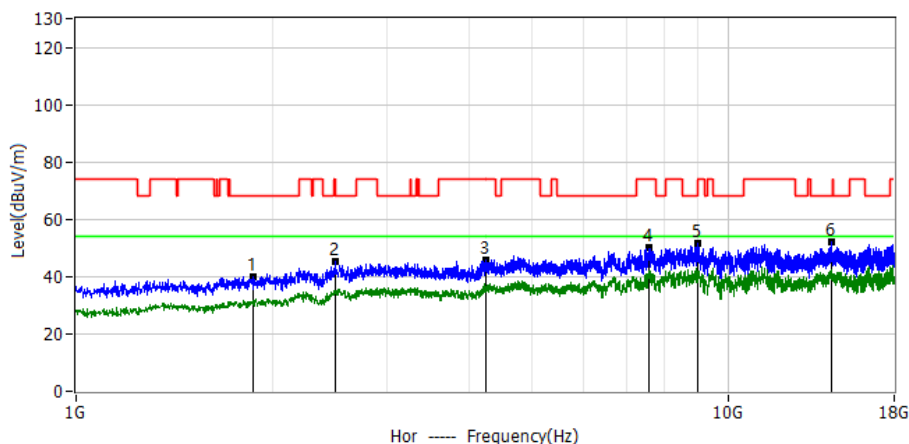
|                         |
|-------------------------|
| Test Mode: 802.11a 5785 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 1769.2000     | 58.31        | -18.71      | 39.60        | 68.20        | -28.60    | PK       | Ver   |
| 2*  | 2525.7000     | 57.09        | -11.18      | 45.91        | 68.20        | -22.29    | PK       | Ver   |
| 3*  | 6134.0000     | 55.85        | -8.38       | 47.47        | 68.20        | -20.73    | PK       | Ver   |
| 4*  | 7585.4000     | 56.62        | -5.66       | 50.96        | 74.00        | -23.04    | PK       | Ver   |
| 5*  | 11382.7000    | 54.71        | -1.84       | 52.87        | 74.00        | -21.13    | PK       | Ver   |
| 6*  | 17804.5000    | 50.70        | 1.93        | 52.63        | 74.00        | -21.37    | PK       | Ver   |

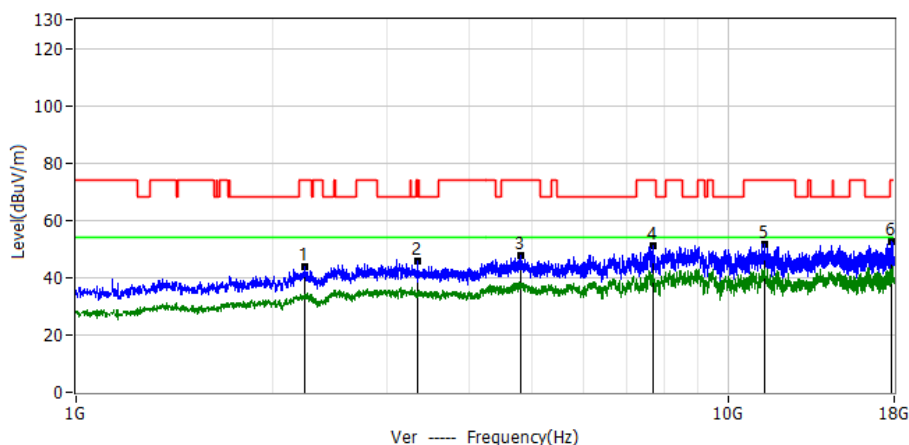


|                         |
|-------------------------|
| Test Mode: 802.11a 5825 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 1864.9000     | 57.50        | -17.78      | 39.72        | 68.20        | -28.48    | PK       | Hor   |
| 2*  | 2496.0000     | 56.44        | -11.35      | 45.09        | 74.00        | -28.91    | PK       | Hor   |
| 3*  | 4253.4000     | 53.48        | -7.50       | 45.98        | 74.00        | -28.02    | PK       | Hor   |
| 4*  | 7572.6000     | 55.57        | -5.66       | 49.91        | 74.00        | -24.09    | PK       | Hor   |
| 5*  | 8992.1000     | 55.36        | -3.68       | 51.68        | 68.20        | -16.52    | PK       | Hor   |
| 6*  | 14393.9000    | 51.15        | 0.71        | 51.86        | 68.20        | -16.34    | PK       | Hor   |

|                         |
|-------------------------|
| Test Mode: 802.11a 5825 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 2238.9000     | 57.61        | -13.99      | 43.62        | 74.00        | -30.38    | PK       | Ver   |
| 2*  | 3335.4000     | 54.50        | -8.95       | 45.55        | 74.00        | -28.45    | PK       | Ver   |
| 3*  | 4799.5000     | 54.33        | -6.80       | 47.53        | 74.00        | -26.47    | PK       | Ver   |
| 4*  | 7661.9000     | 56.88        | -5.63       | 51.25        | 74.00        | -22.75    | PK       | Ver   |
| 5*  | 11389.1000    | 53.58        | -1.83       | 51.75        | 74.00        | -22.25    | PK       | Ver   |
| 6*  | 17823.6000    | 50.50        | 1.94        | 52.44        | 74.00        | -21.56    | PK       | Ver   |

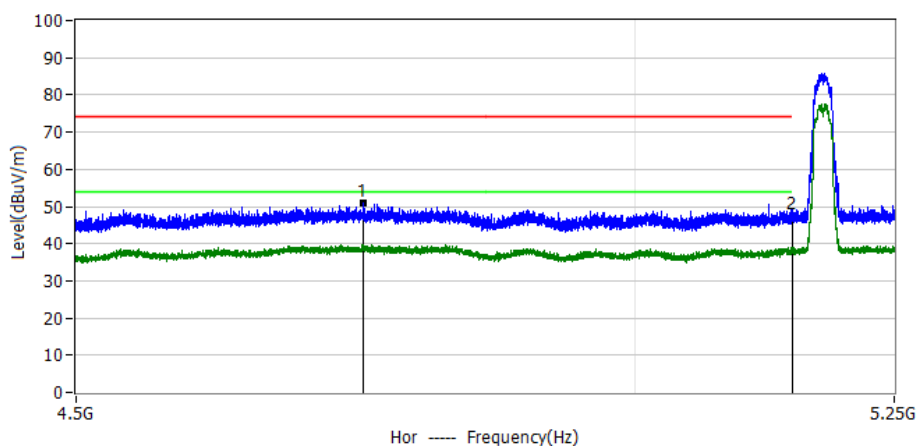
#### Remark:

In frequency ranges 18~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.



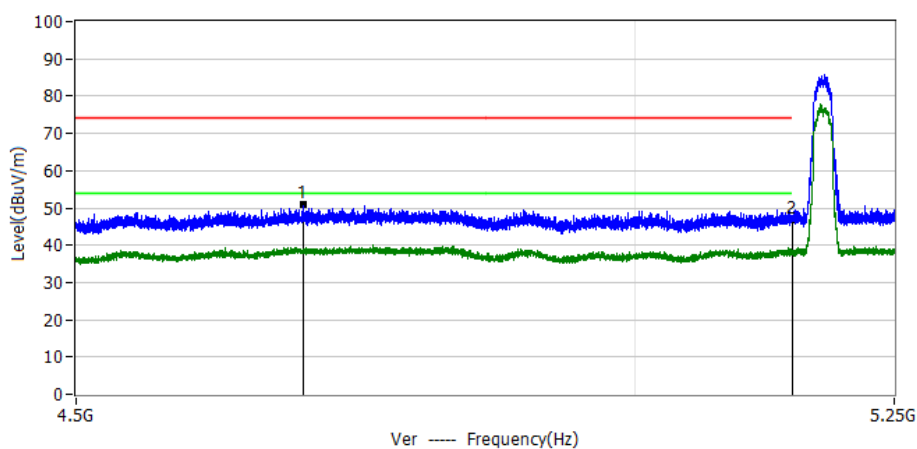
### 3.2.7 TEST RESULTS(Band edge Requirements)

|                         |
|-------------------------|
| Test Mode: 802.11a 5180 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 4749.7000     | 57.72        | -6.75       | 50.97        | 74.00        | -23.03    | PK       | Hor   |
| 2*  | 5150.0000     | 55.11        | -7.51       | 47.60        | 74.00        | -26.40    | PK       | Hor   |

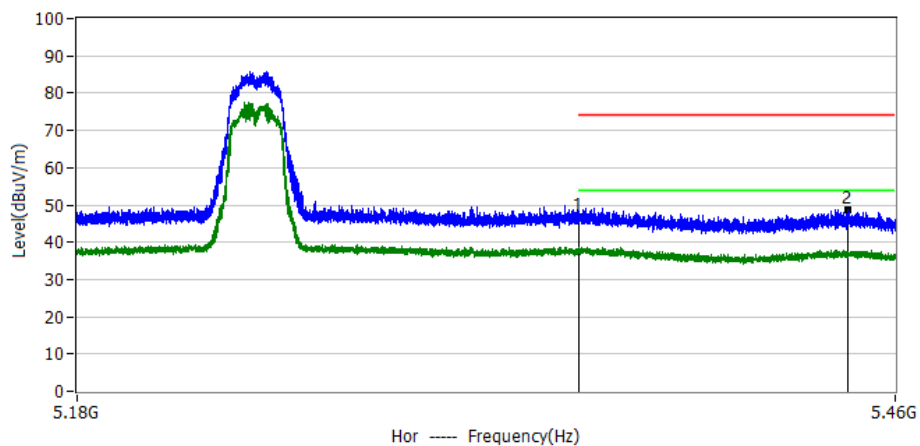
|                         |
|-------------------------|
| Test Mode: 802.11a 5180 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 4696.2000     | 57.45        | -6.70       | 50.75        | 74.00        | -23.25    | PK       | Ver   |
| 2*  | 5150.0000     | 54.51        | -7.51       | 47.00        | 74.00        | -27.00    | PK       | Ver   |

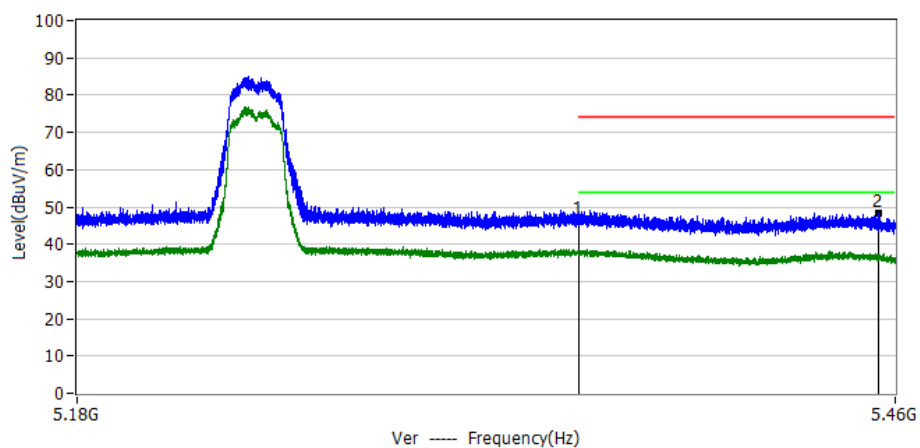


|                         |
|-------------------------|
| Test Mode: 802.11a 5240 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 5350.0000     | 55.09        | -8.19       | 46.90        | 74.00        | -27.10    | PK       | Hor   |
| 2*  | 5443.2000     | 57.29        | -8.51       | 48.78        | 74.00        | -25.22    | PK       | Hor   |

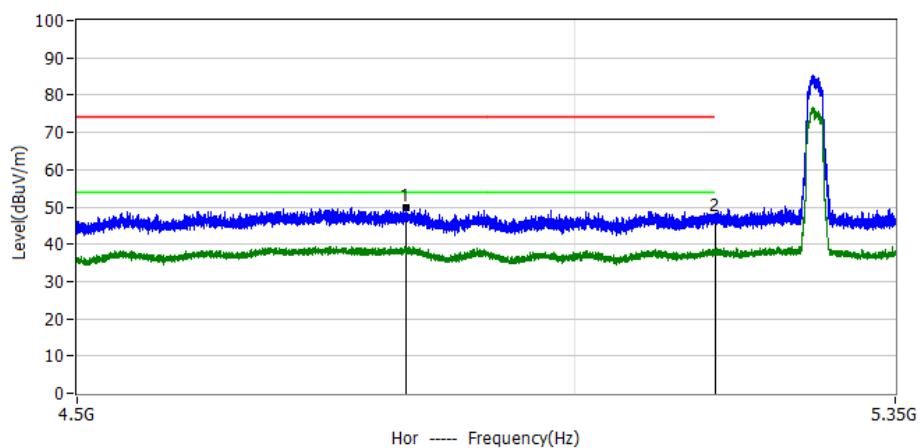
|                         |
|-------------------------|
| Test Mode: 802.11a 5240 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 5350.0000     | 54.59        | -8.19       | 46.40        | 74.00        | -27.60    | PK       | Ver   |
| 2*  | 5454.0000     | 56.77        | -8.55       | 48.22        | 74.00        | -25.78    | PK       | Ver   |

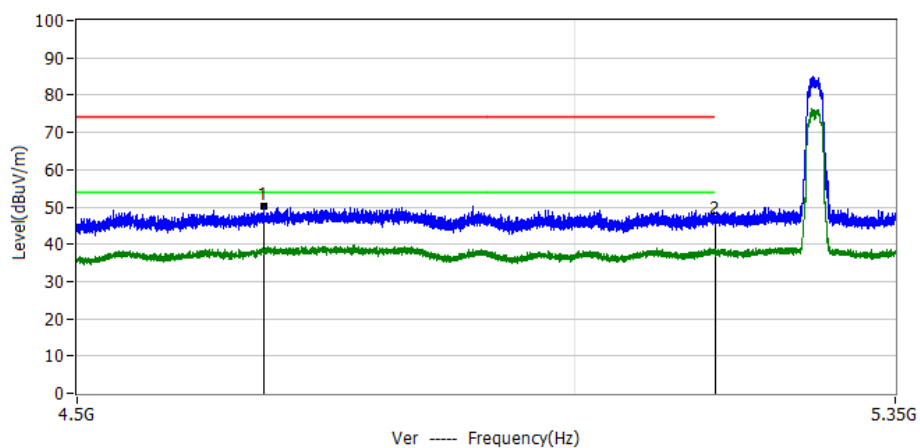


|                         |
|-------------------------|
| Test Mode: 802.11a 5260 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 4824.8000     | 56.71        | -6.82       | 49.89        | 74.00        | -24.11    | PK       | Hor   |
| 2*  | 5150.0000     | 54.61        | -7.51       | 47.10        | 74.00        | -26.90    | PK       | Hor   |

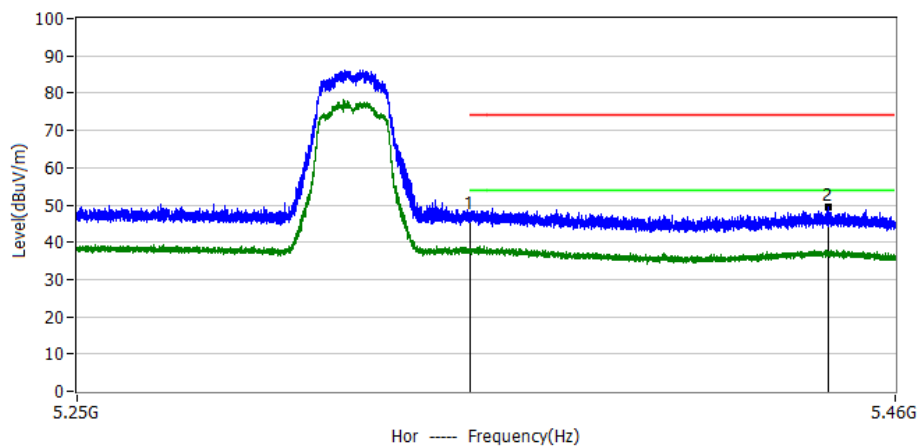
|                         |
|-------------------------|
| Test Mode: 802.11a 5260 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 4681.6000     | 56.90        | -6.68       | 50.22        | 74.00        | -23.78    | PK       | Ver   |
| 2*  | 5150.0000     | 54.01        | -7.51       | 46.50        | 74.00        | -27.50    | PK       | Ver   |

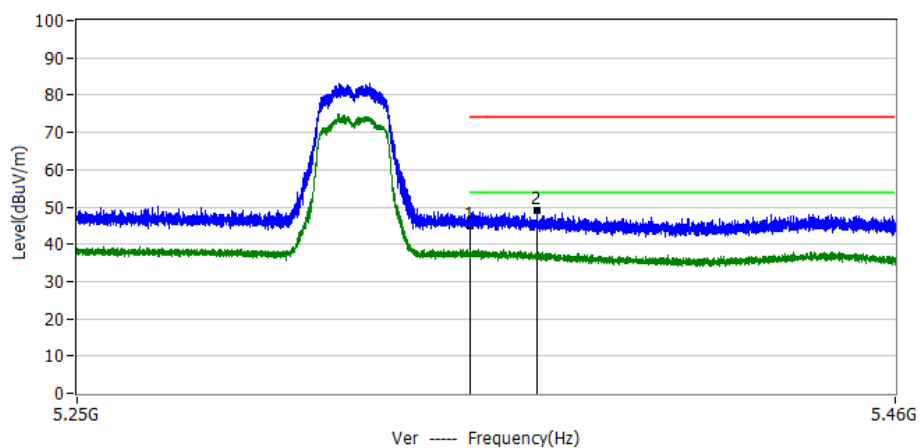


|                         |
|-------------------------|
| Test Mode: 802.11a 5320 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 5350.0000     | 55.49        | -8.19       | 47.30        | 74.00        | -26.70    | PK       | Hor   |
| 2*  | 5442.5000     | 58.02        | -8.51       | 49.51        | 74.00        | -24.49    | PK       | Hor   |

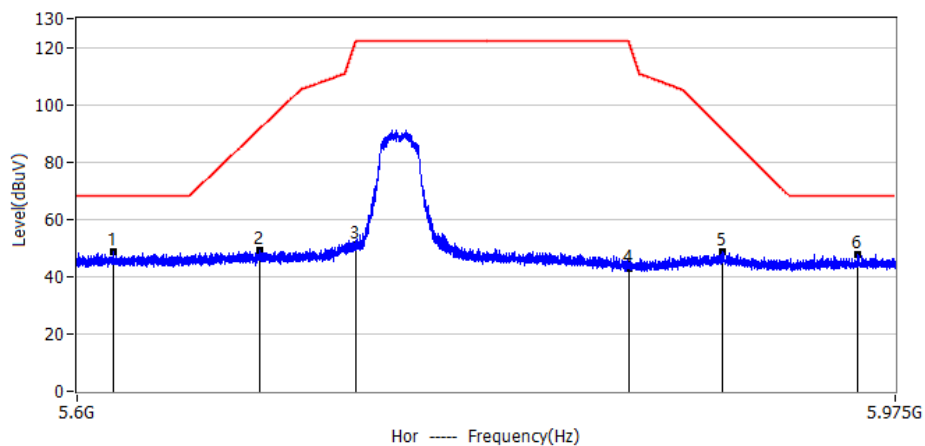
|                         |
|-------------------------|
| Test Mode: 802.11a 5320 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 5350.0000     | 53.29        | -8.19       | 45.10        | 74.00        | -28.90    | PK       | Ver   |
| 2*  | 5367.0000     | 57.21        | -8.25       | 48.96        | 74.00        | -25.04    | PK       | Ver   |

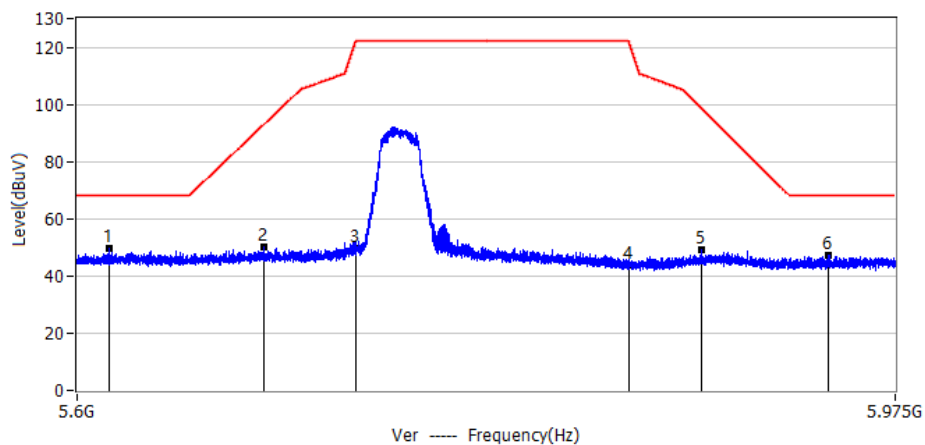


|                         |
|-------------------------|
| Test Mode: 802.11a 5745 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB | Level dBuV | Limit dBuV | Margin dB | Detector | Polar |
|-----|---------------|--------------|-----------|------------|------------|-----------|----------|-------|
| 1*  | 5616.0000     | 57.34        | -8.68     | 48.66      | 68.20      | -19.54    | PK       | Hor   |
| 2*  | 5681.6000     | 57.67        | -8.67     | 49.00      | 91.63      | -42.62    | PK       | Hor   |
| 3*  | 5725.0000     | 59.56        | -8.66     | 50.90      | 122.20     | -71.30    | PK       | Hor   |
| 4*  | 5850.0000     | 51.64        | -8.64     | 43.00      | 122.20     | -79.20    | PK       | Hor   |
| 5*  | 5894.0000     | 57.30        | -8.63     | 48.67      | 91.14      | -42.46    | PK       | Hor   |
| 6*  | 5957.2000     | 56.47        | -8.62     | 47.85      | 68.20      | -20.35    | PK       | Hor   |

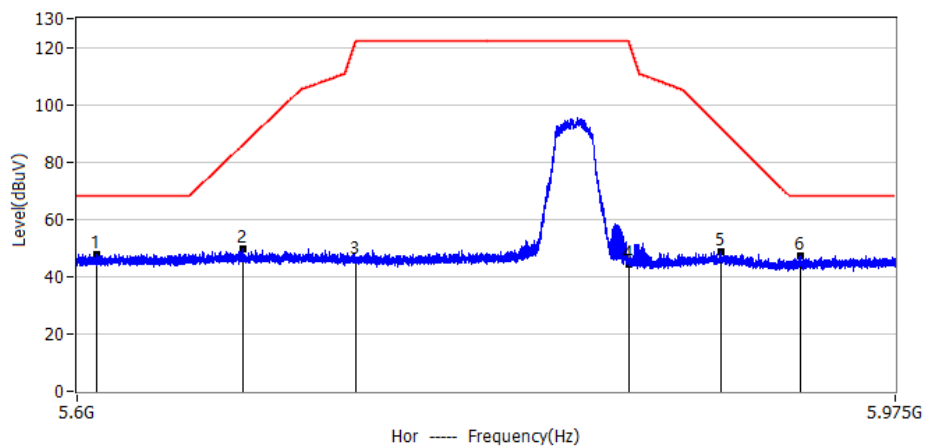
|                         |
|-------------------------|
| Test Mode: 802.11a 5745 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB | Level dBuV | Limit dBuV | Margin dB | Detector | Polar |
|-----|---------------|--------------|-----------|------------|------------|-----------|----------|-------|
| 1*  | 5614.2000     | 58.27        | -8.68     | 49.59      | 68.20      | -18.61    | PK       | Ver   |
| 2*  | 5683.4000     | 58.87        | -8.67     | 50.20      | 92.98      | -42.78    | PK       | Ver   |
| 3*  | 5725.0000     | 58.36        | -8.66     | 49.70      | 122.20     | -72.50    | PK       | Ver   |
| 4*  | 5850.0000     | 52.64        | -8.64     | 44.00      | 122.20     | -78.10    | PK       | Ver   |
| 5*  | 5884.3000     | 57.62        | -8.63     | 48.99      | 98.30      | -49.31    | PK       | Ver   |
| 6*  | 5943.7000     | 55.74        | -8.62     | 47.12      | 68.20      | -21.08    | PK       | Ver   |

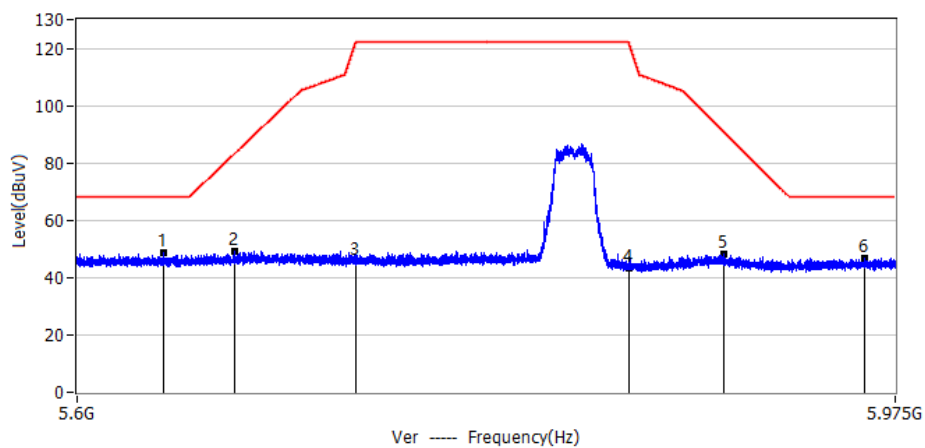


|                         |
|-------------------------|
| Test Mode: 802.11a 5825 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB | Level dBuV | Limit dBuV | Margin dB | Detector | Polar |
|-----|---------------|--------------|-----------|------------|------------|-----------|----------|-------|
| 1*  | 5608.9000     | 56.59        | -8.68     | 47.91      | 68.20      | -20.29    | PK       | Hor   |
| 2*  | 5674.0000     | 58.13        | -8.67     | 49.46      | 85.98      | -36.51    | PK       | Hor   |
| 3*  | 5725.0000     | 54.56        | -8.66     | 45.90      | 122.20     | -76.30    | PK       | Hor   |
| 4*  | 5850.0000     | 53.04        | -8.64     | 44.40      | 122.20     | -77.70    | PK       | Hor   |
| 5*  | 5893.1000     | 57.20        | -8.63     | 48.57      | 91.80      | -43.23    | PK       | Hor   |
| 6*  | 5930.2000     | 55.80        | -8.62     | 47.18      | 68.20      | -21.02    | PK       | Hor   |

|                         |
|-------------------------|
| Test Mode: 802.11a 5825 |
| Note:                   |



| No. | Frequency MHz | Reading dBuV | Factor dB | Level dBuV | Limit dBuV | Margin dB | Detector | Polar |
|-----|---------------|--------------|-----------|------------|------------|-----------|----------|-------|
| 1*  | 5638.2000     | 57.15        | -8.68     | 48.47      | 68.20      | -19.73    | PK       | Ver   |
| 2*  | 5670.3000     | 58.03        | -8.67     | 49.36      | 83.24      | -33.88    | PK       | Ver   |
| 3*  | 5725.0000     | 54.26        | -8.66     | 45.60      | 122.20     | -76.60    | PK       | Ver   |
| 4*  | 5850.0000     | 52.04        | -8.64     | 43.40      | 122.20     | -78.70    | PK       | Ver   |
| 5*  | 5894.3000     | 56.62        | -8.63     | 47.99      | 90.89      | -42.91    | PK       | Ver   |
| 6*  | 5960.5000     | 55.40        | -8.62     | 46.78      | 68.20      | -21.42    | 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

1. 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.

#### 4.6 TEST RESULTS

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 DEVIATION FROM STANDARD

No deviation.

#### 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 DEVIATION FROM STANDARD

No deviation.

### 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              |        |

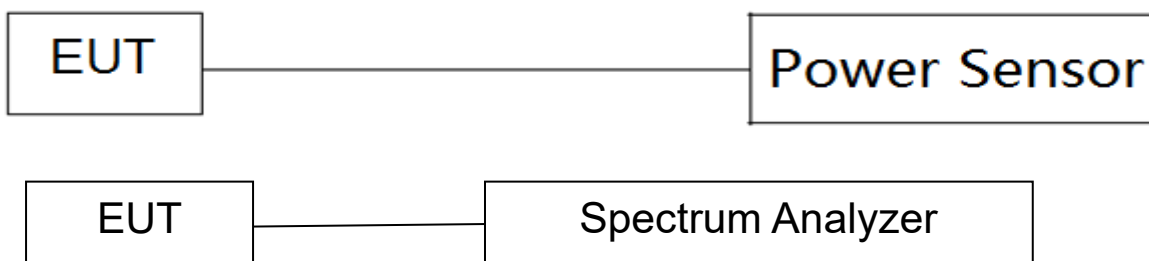
### 6.2 TEST PROCEDURE

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**

Part 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 FPC Antenna. It comply with the standard requirement.



## APPENDIX I - TEST RESULTS

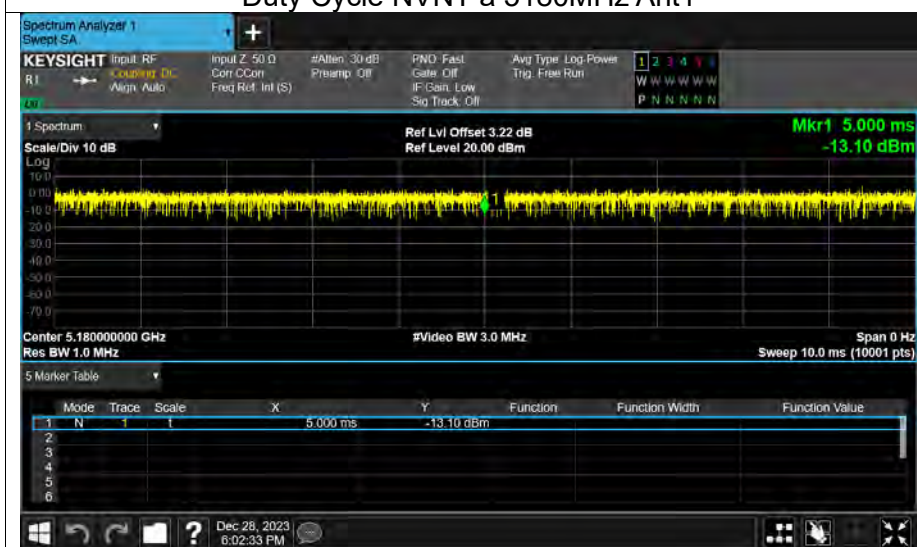
### Duty Cycle

| 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    | 5745            | Ant1    | 100            | 0                      | 0         |
| NVNT      | a    | 5785            | Ant1    | 100            | 0                      | 0         |
| NVNT      | a    | 5825            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n20  | 5180            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n20  | 5200            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n20  | 5240            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n20  | 5260            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n20  | 5300            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n20  | 5320            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n20  | 5745            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n20  | 5785            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n20  | 5825            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n40  | 5190            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n40  | 5230            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n40  | 5270            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n40  | 5310            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n40  | 5510            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n40  | 5550            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n40  | 5670            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n40  | 5755            | Ant1    | 100            | 0                      | 0         |
| NVNT      | n40  | 5795            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac20 | 5180            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac20 | 5200            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac20 | 5240            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac20 | 5260            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac20 | 5300            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac20 | 5320            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac20 | 5745            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac20 | 5785            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac20 | 5825            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac40 | 5190            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac40 | 5230            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac40 | 5270            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac40 | 5310            | Ant1    | 99.99          | 0                      | 0         |
| NVNT      | ac40 | 5755            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac40 | 5795            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac80 | 5210            | Ant1    | 99.96          | 0                      | 0.2       |
| NVNT      | ac80 | 5290            | Ant1    | 100            | 0                      | 0         |
| NVNT      | ac80 | 5775            | Ant1    | 100            | 0                      | 0         |

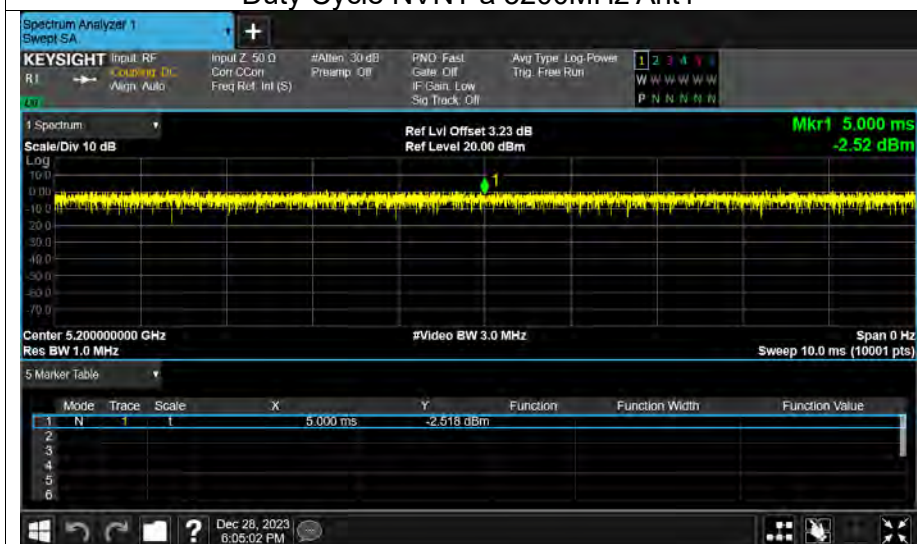


## Test Graphs

### Duty Cycle NVNT a 5180MHz Ant1

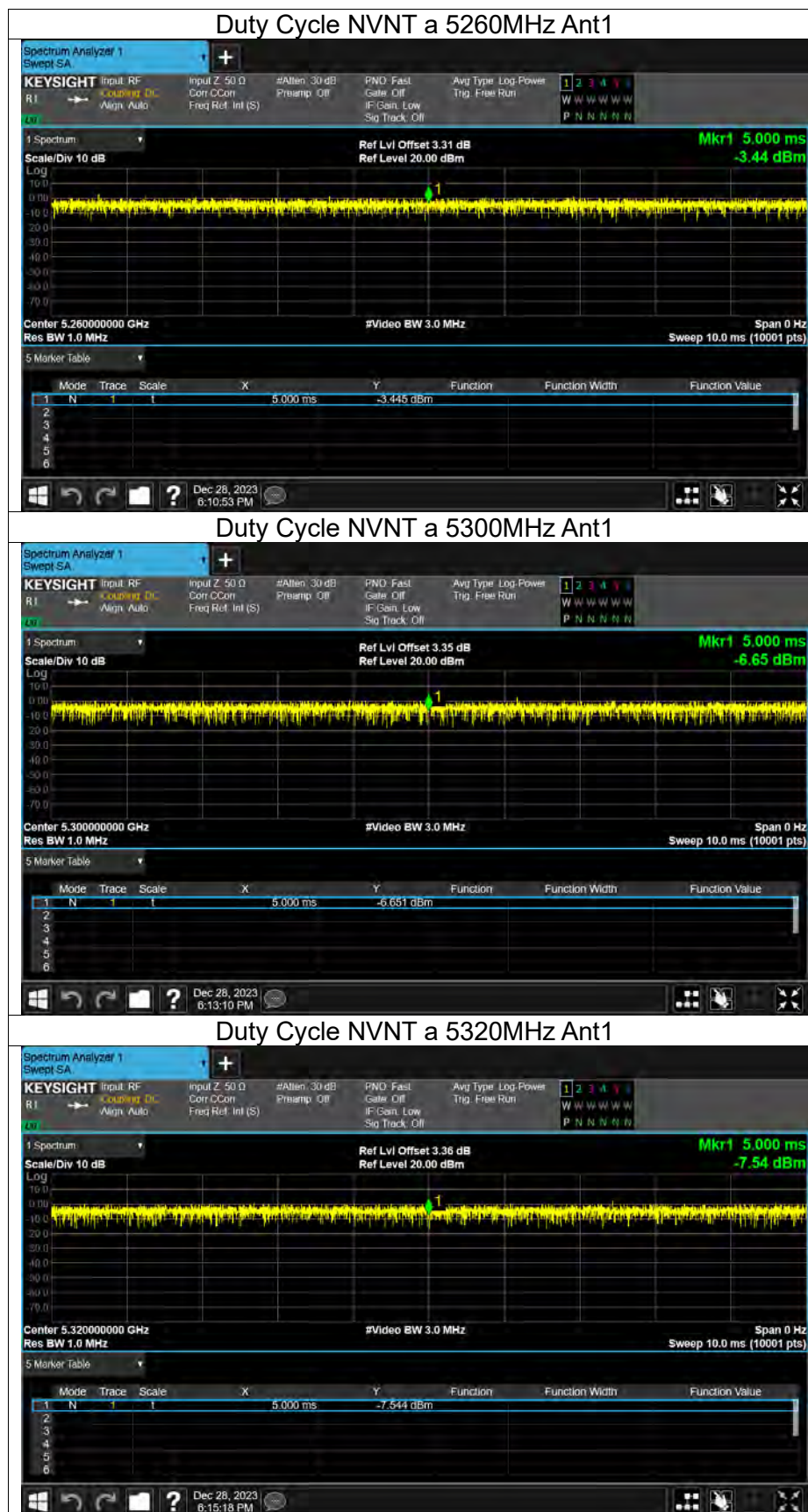


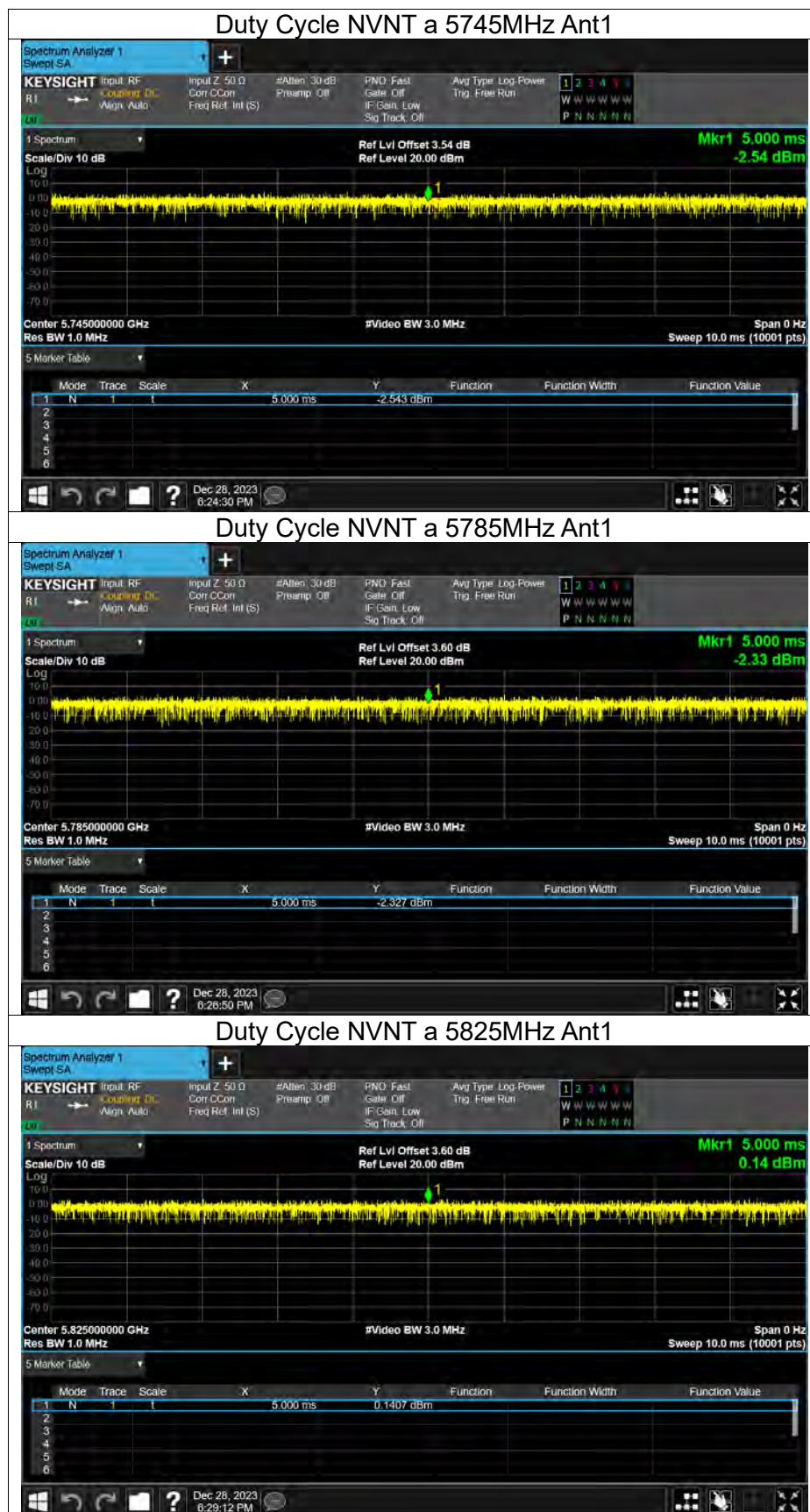
### Duty Cycle NVNT a 5200MHz Ant1

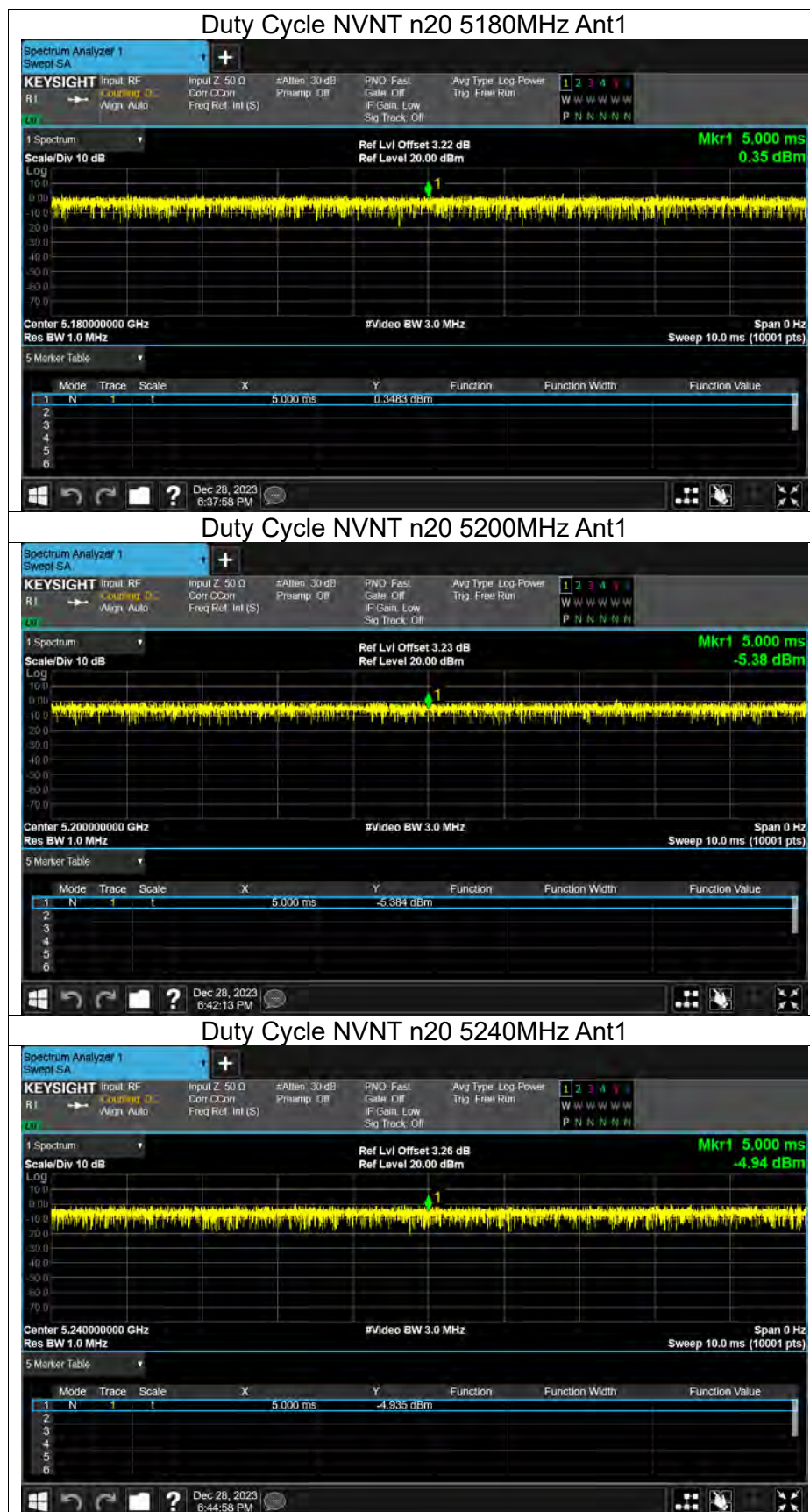


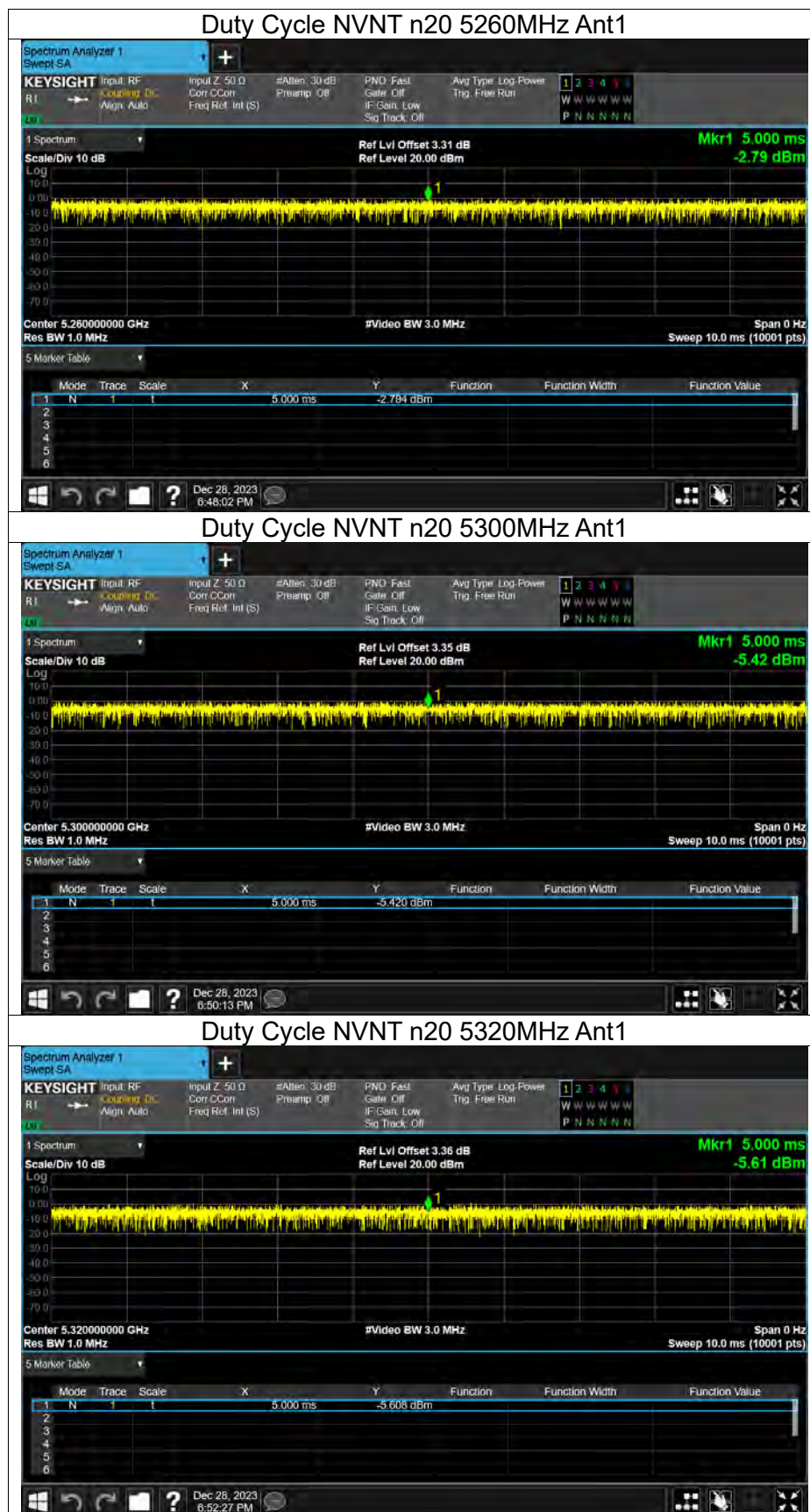
### Duty Cycle NVNT a 5240MHz Ant1

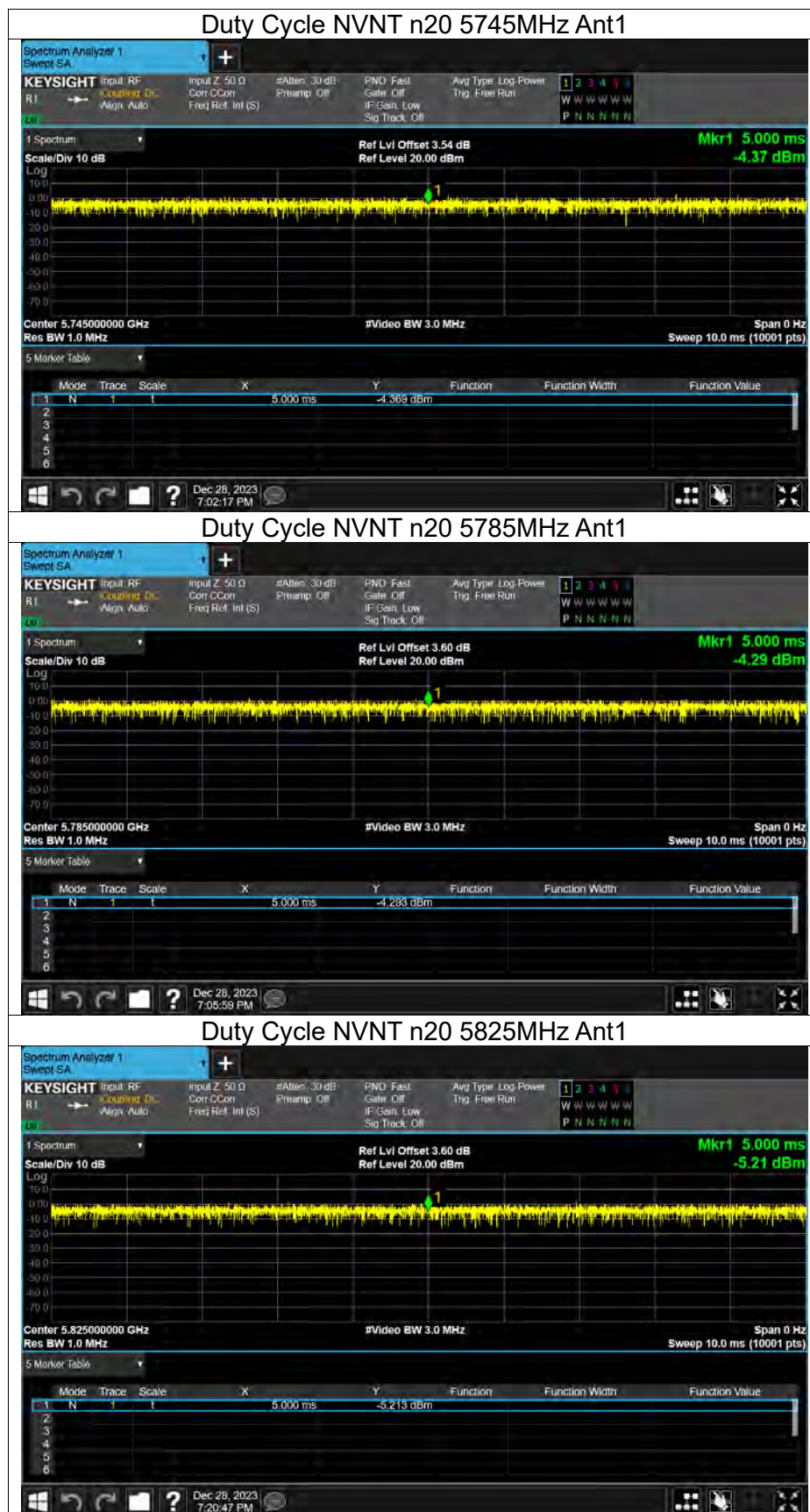


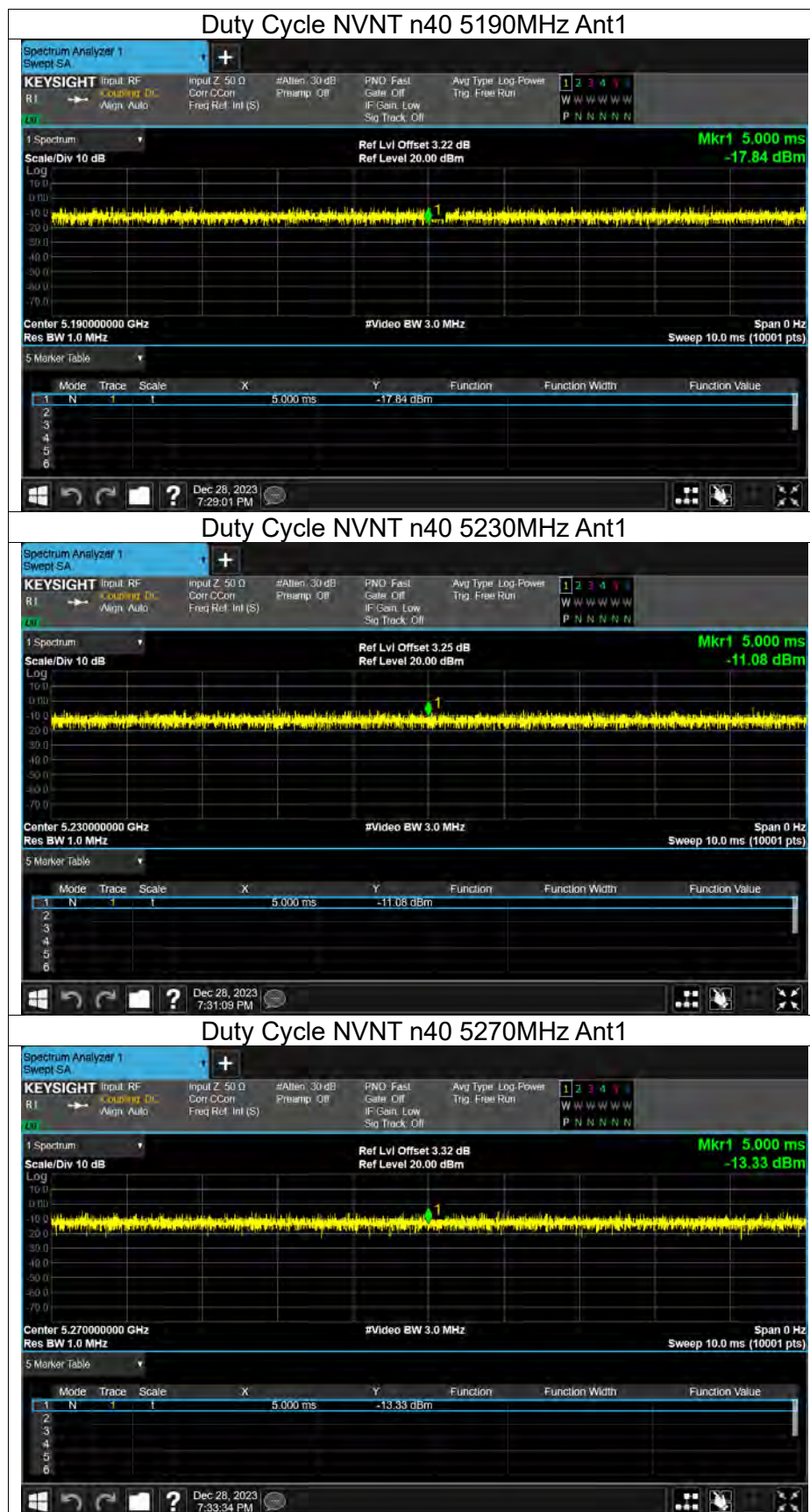


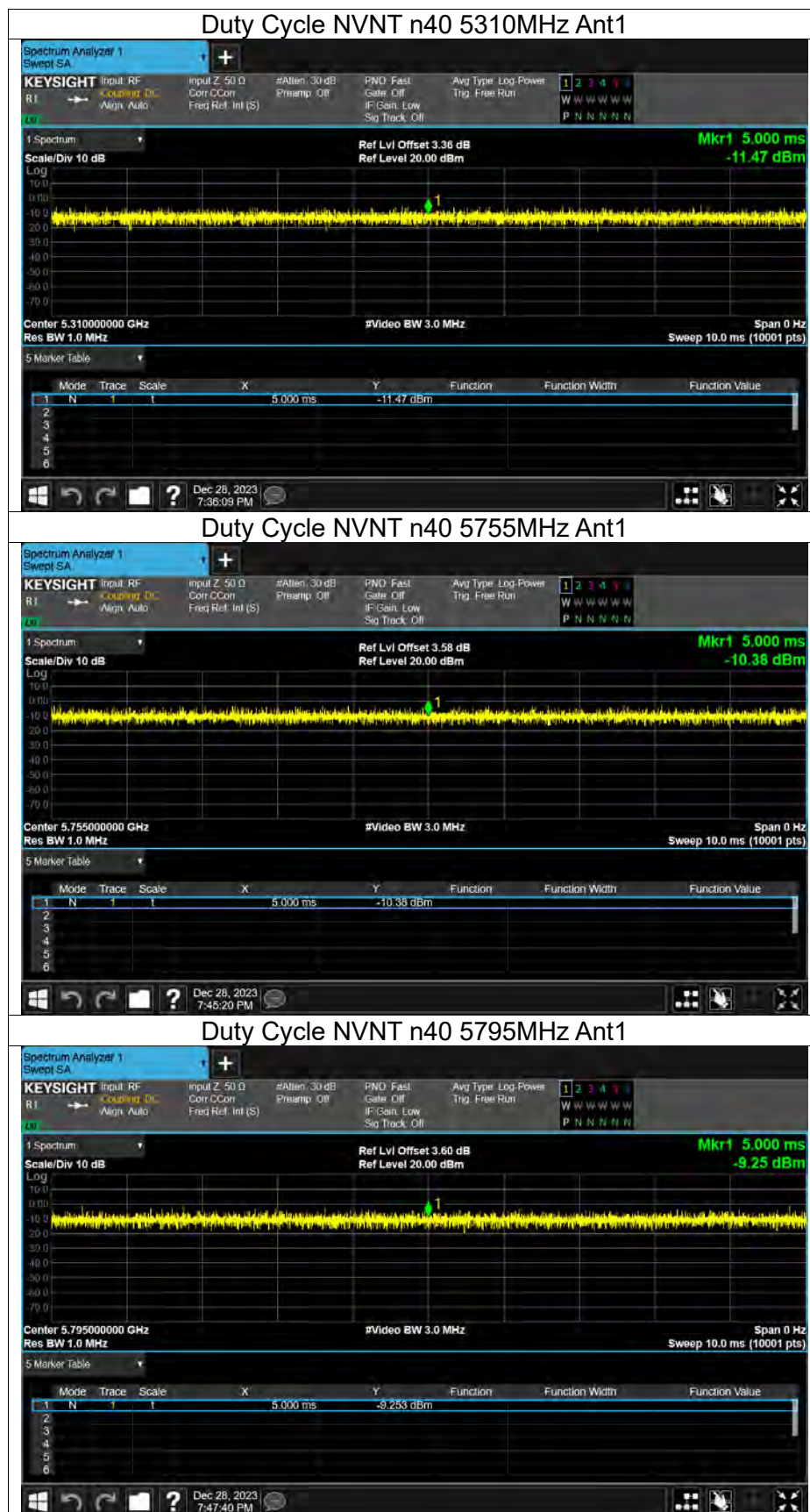


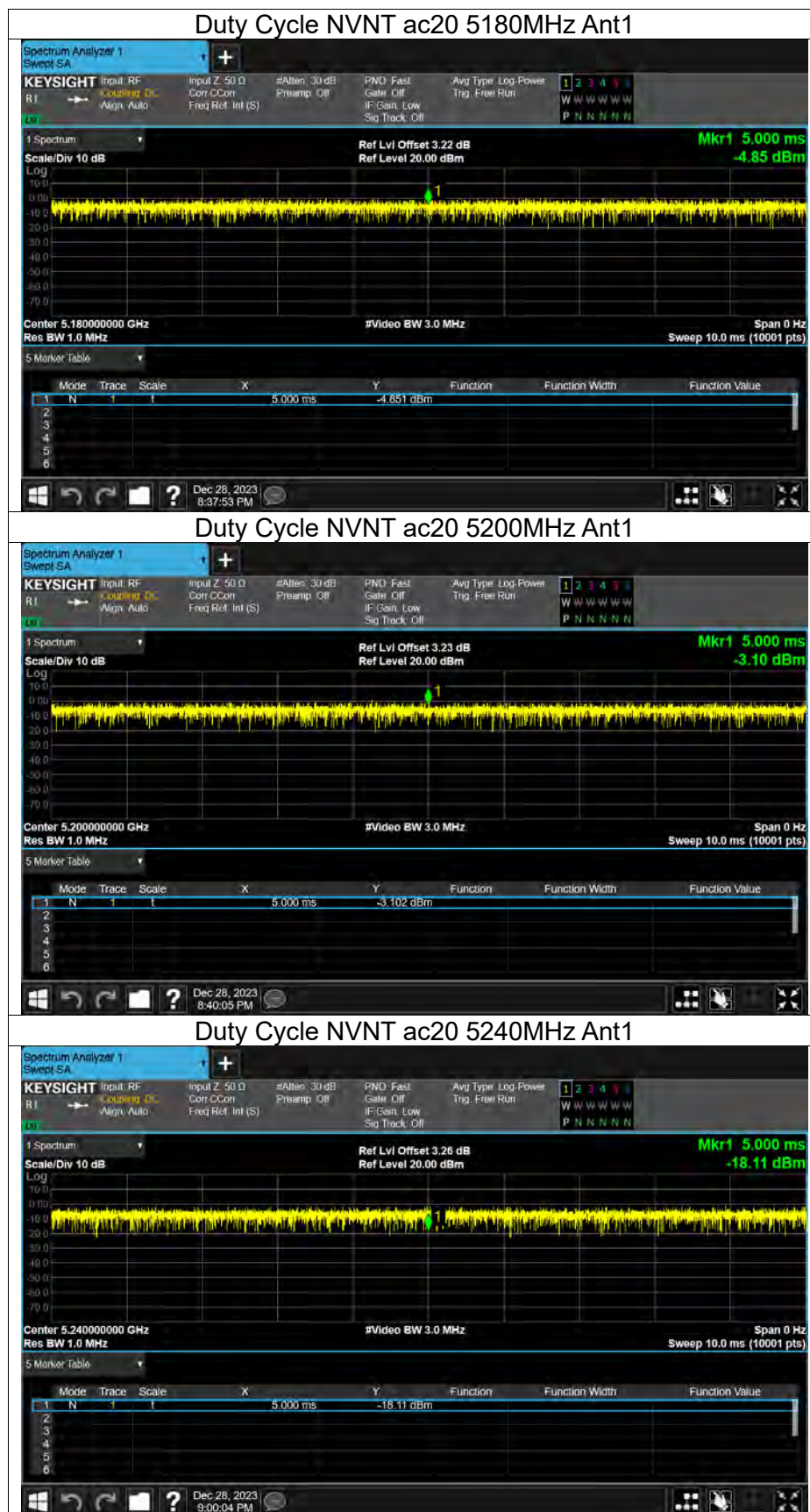


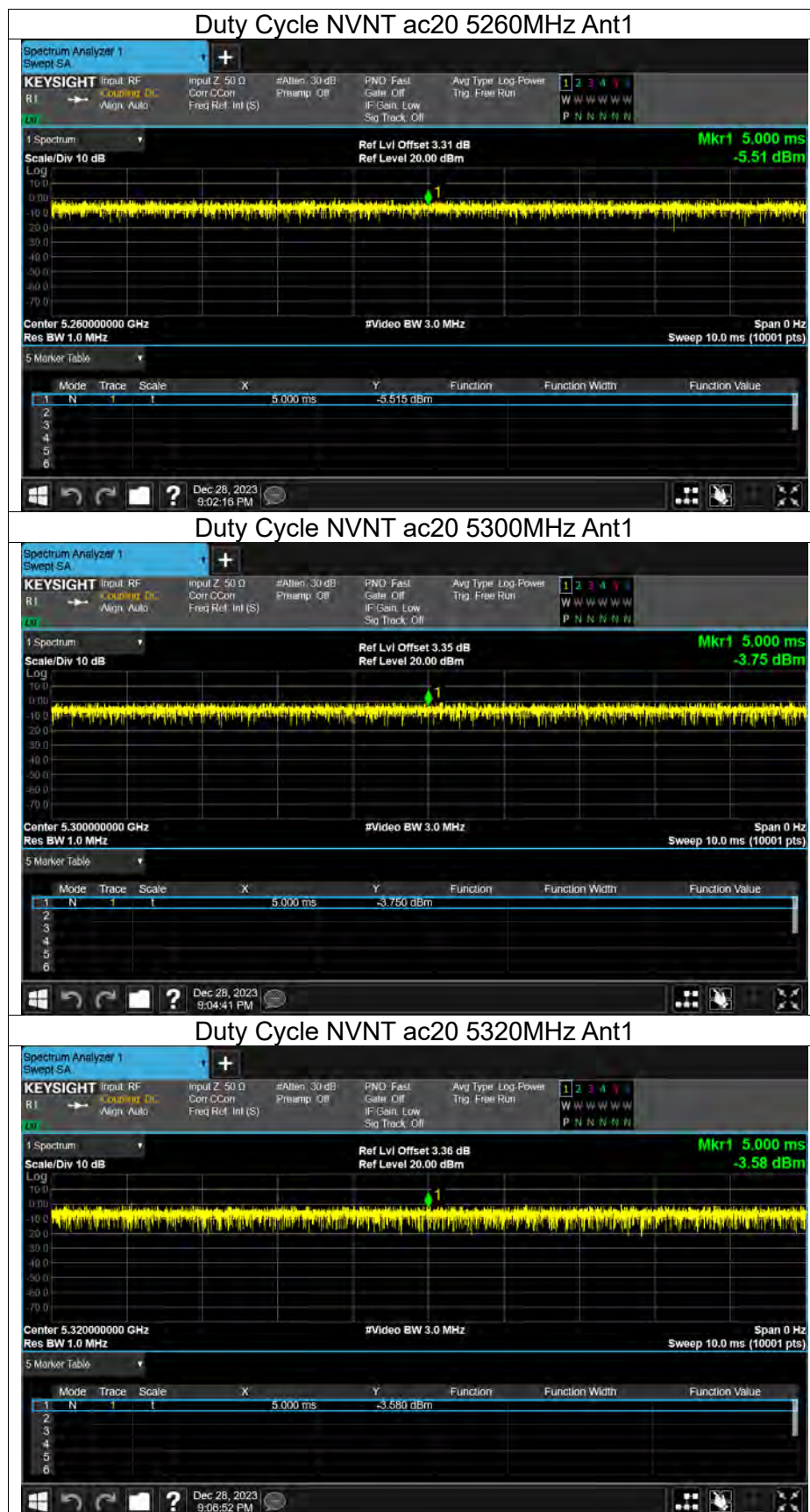


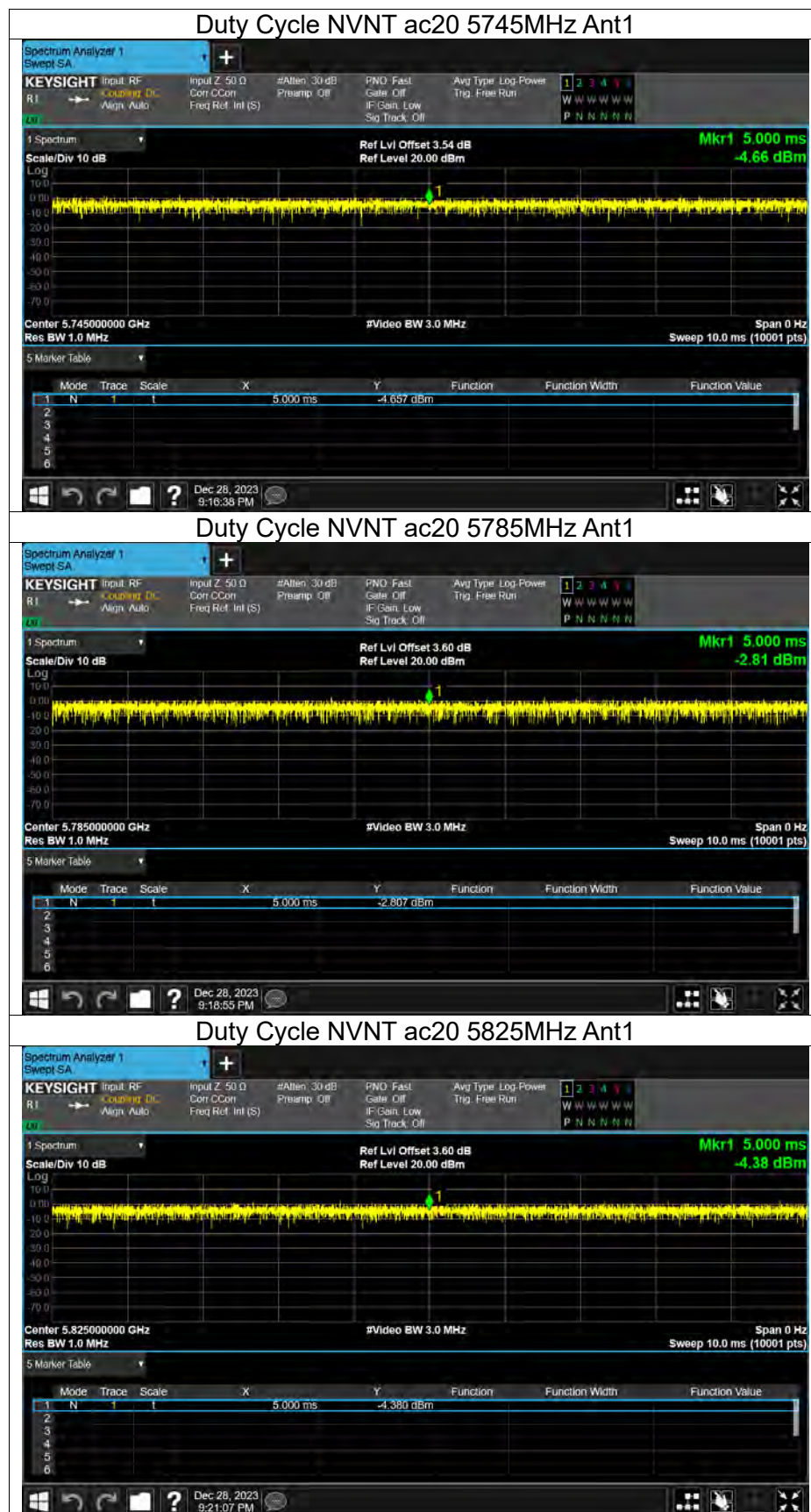


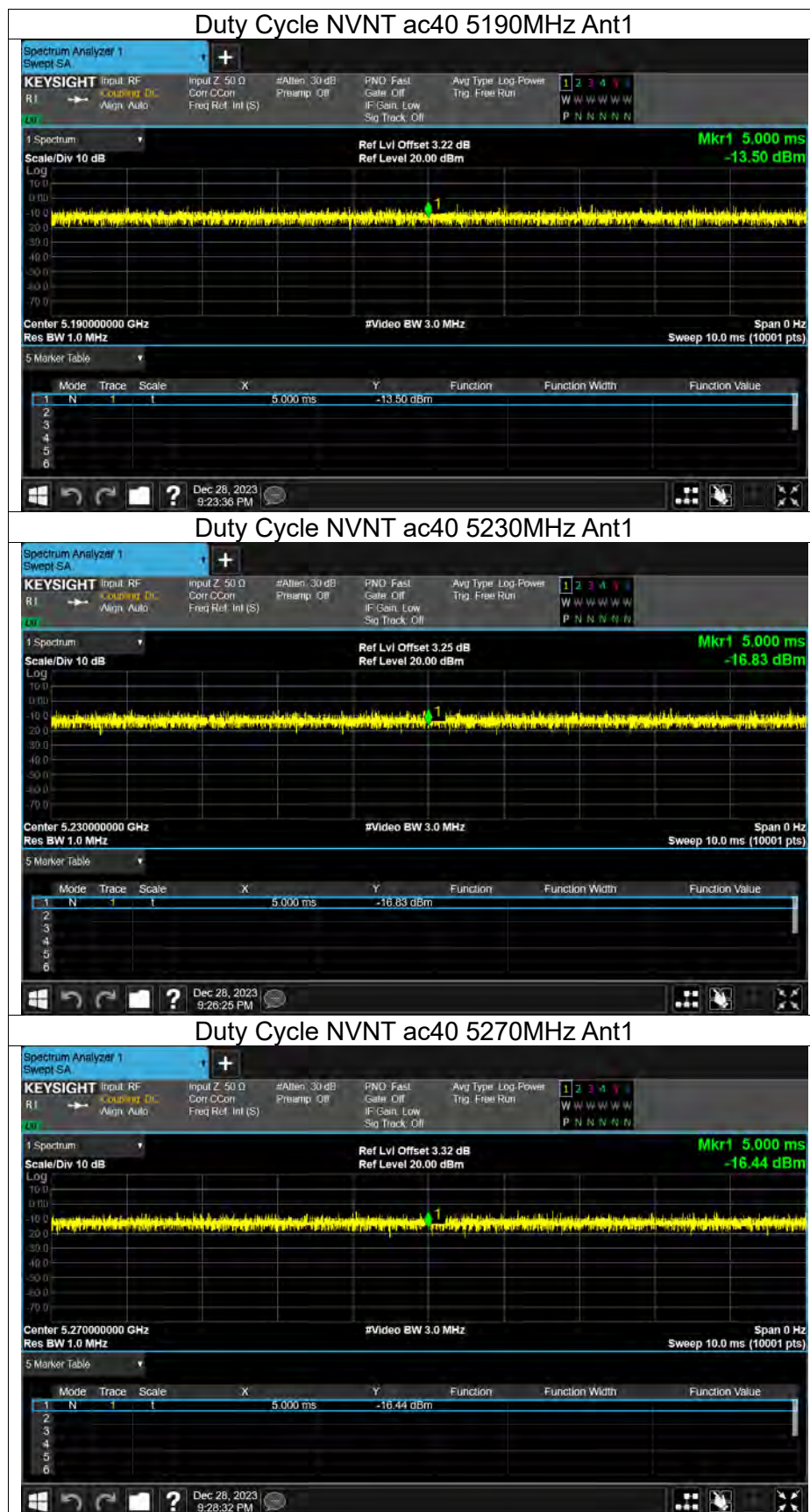


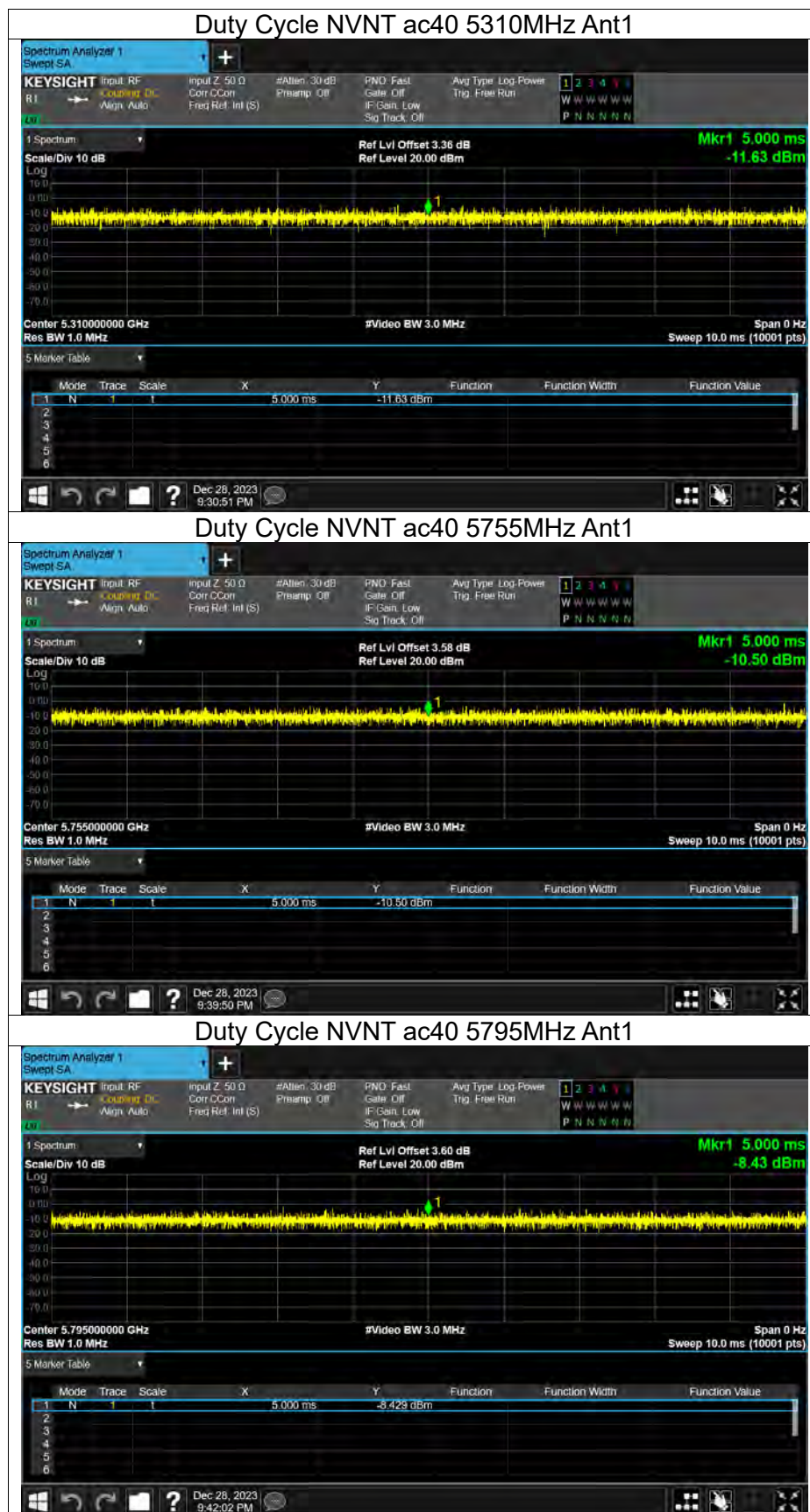


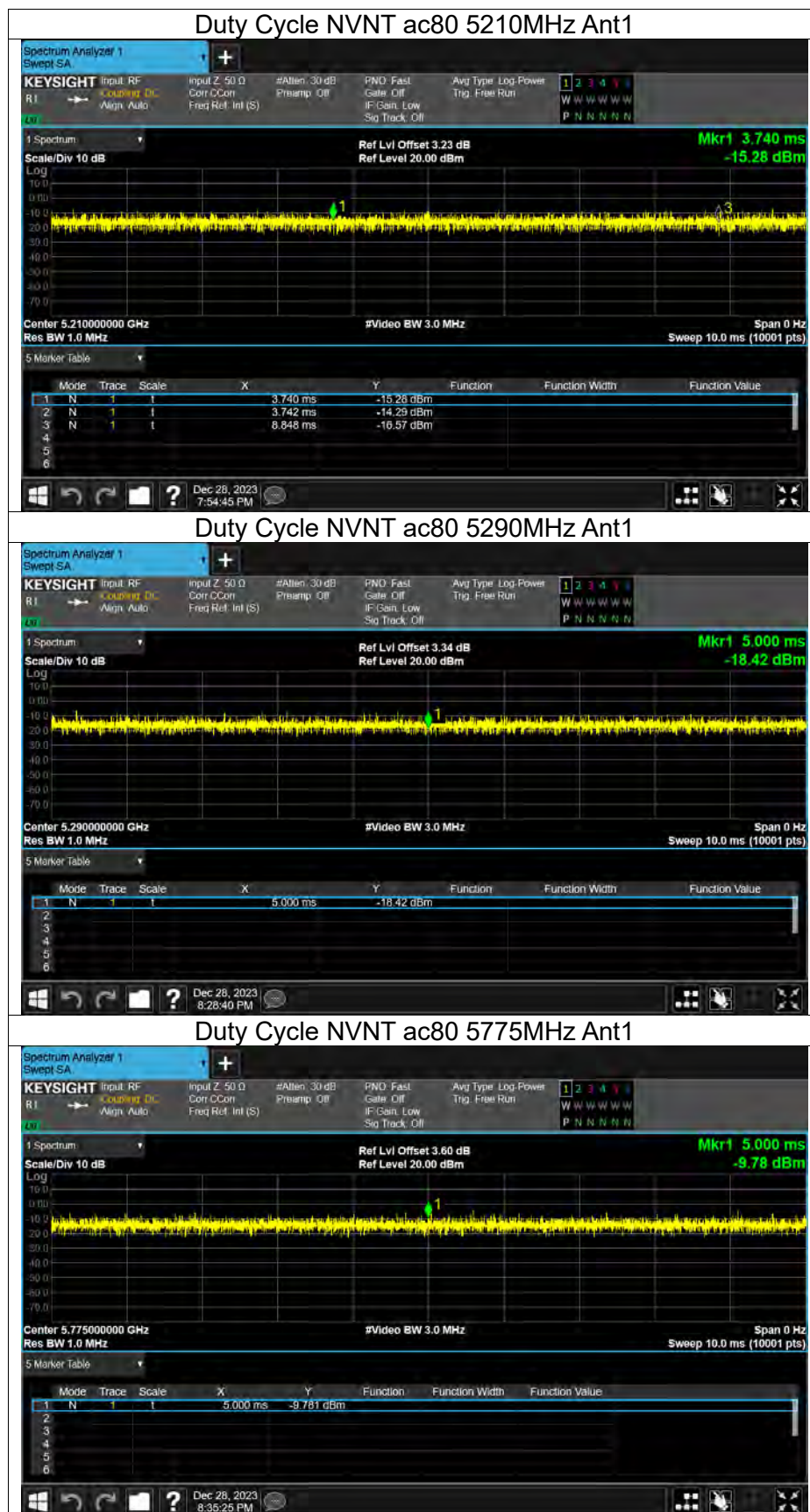














## Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | 6.33                  | 0                | 6.33              | 24          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 5.03                  | 0                | 5.03              | 24          | Pass    |
| NVNT      | a    | 5240            | Ant1    | 4.1                   | 0                | 4.1               | 24          | Pass    |
| NVNT      | a    | 5260            | Ant1    | 4.5                   | 0                | 4.5               | 24          | Pass    |
| NVNT      | a    | 5300            | Ant1    | 4.16                  | 0                | 4.16              | 24          | Pass    |
| NVNT      | a    | 5320            | Ant1    | 4.24                  | 0                | 4.24              | 24          | Pass    |
| NVNT      | a    | 5745            | Ant1    | 7.51                  | 0                | 7.51              | 30          | Pass    |
| NVNT      | a    | 5785            | Ant1    | 7.62                  | 0                | 7.62              | 30          | Pass    |
| NVNT      | a    | 5825            | Ant1    | 7.04                  | 0                | 7.04              | 30          | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 4.72                  | 0                | 4.72              | 24          | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 4.28                  | 0                | 4.28              | 24          | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 3.55                  | 0                | 3.55              | 24          | Pass    |
| NVNT      | n20  | 5260            | Ant1    | 3.96                  | 0                | 3.96              | 24          | Pass    |
| NVNT      | n20  | 5300            | Ant1    | 3.86                  | 0                | 3.86              | 24          | Pass    |
| NVNT      | n20  | 5320            | Ant1    | 3.7                   | 0                | 3.7               | 24          | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 5.29                  | 0                | 5.29              | 30          | Pass    |
| NVNT      | n20  | 5785            | Ant1    | 5.48                  | 0                | 5.48              | 30          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 4.97                  | 0                | 4.97              | 30          | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 3.51                  | 0                | 3.51              | 24          | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 2.88                  | 0                | 2.88              | 24          | Pass    |
| NVNT      | n40  | 5270            | Ant1    | 3.19                  | 0                | 3.19              | 24          | Pass    |
| NVNT      | n40  | 5310            | Ant1    | 2.75                  | 0                | 2.75              | 24          | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 5.49                  | 0                | 5.49              | 30          | Pass    |
| NVNT      | n40  | 5795            | Ant1    | 5.37                  | 0                | 5.37              | 30          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 3.93                  | 0                | 3.93              | 24          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 3.38                  | 0                | 3.38              | 24          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 2.02                  | 0                | 2.02              | 24          | Pass    |
| NVNT      | ac20 | 5260            | Ant1    | 3.08                  | 0                | 3.08              | 24          | Pass    |
| NVNT      | ac20 | 5300            | Ant1    | 3.14                  | 0                | 3.14              | 24          | Pass    |
| NVNT      | ac20 | 5320            | Ant1    | 2.97                  | 0                | 2.97              | 24          | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | 5.29                  | 0                | 5.29              | 30          | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | 5.43                  | 0                | 5.43              | 30          | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | 5.05                  | 0                | 5.05              | 30          | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | 3.27                  | 0                | 3.27              | 24          | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | 2.65                  | 0                | 2.65              | 24          | Pass    |
| NVNT      | ac40 | 5270            | Ant1    | 3.08                  | 0                | 3.08              | 24          | Pass    |
| NVNT      | ac40 | 5310            | Ant1    | 2.87                  | 0                | 2.87              | 24          | Pass    |
| NVNT      | ac40 | 5755            | Ant1    | 5.58                  | 0                | 5.58              | 30          | Pass    |
| NVNT      | ac40 | 5795            | Ant1    | 5.25                  | 0                | 5.25              | 30          | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | 3.22                  | 0                | 3.22              | 24          | Pass    |
| NVNT      | ac80 | 5290            | Ant1    | 2.77                  | 0                | 2.77              | 24          | Pass    |
| NVNT      | ac80 | 5775            | Ant1    | 5.41                  | 0                | 5.41              | 30          | Pass    |



-26dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|---------|
| NVNT      | a    | 5180            | Ant1    | 27.285                 | Pass    |
| NVNT      | a    | 5200            | Ant1    | 26.211                 | Pass    |
| NVNT      | a    | 5240            | Ant1    | 26.449                 | Pass    |
| NVNT      | a    | 5260            | Ant1    | 28.577                 | Pass    |
| NVNT      | a    | 5300            | Ant1    | 27.194                 | Pass    |
| NVNT      | a    | 5320            | Ant1    | 25.758                 | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 24.113                 | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 20.296                 | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 21.238                 | Pass    |
| NVNT      | n20  | 5260            | Ant1    | 20.763                 | Pass    |
| NVNT      | n20  | 5300            | Ant1    | 20.175                 | Pass    |
| NVNT      | n20  | 5320            | Ant1    | 20.375                 | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 39.363                 | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 40.408                 | Pass    |
| NVNT      | n40  | 5270            | Ant1    | 39.696                 | Pass    |
| NVNT      | n40  | 5310            | Ant1    | 40.206                 | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 20.288                 | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 21.684                 | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 24.813                 | Pass    |
| NVNT      | ac20 | 5260            | Ant1    | 20.43                  | Pass    |
| NVNT      | ac20 | 5300            | Ant1    | 20.967                 | Pass    |
| NVNT      | ac20 | 5320            | Ant1    | 21.497                 | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | 40.357                 | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | 40.078                 | Pass    |
| NVNT      | ac40 | 5270            | Ant1    | 39.865                 | Pass    |
| NVNT      | ac40 | 5310            | Ant1    | 39.648                 | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | 79.333                 | Pass    |
| NVNT      | ac80 | 5290            | Ant1    | 79.504                 | Pass    |

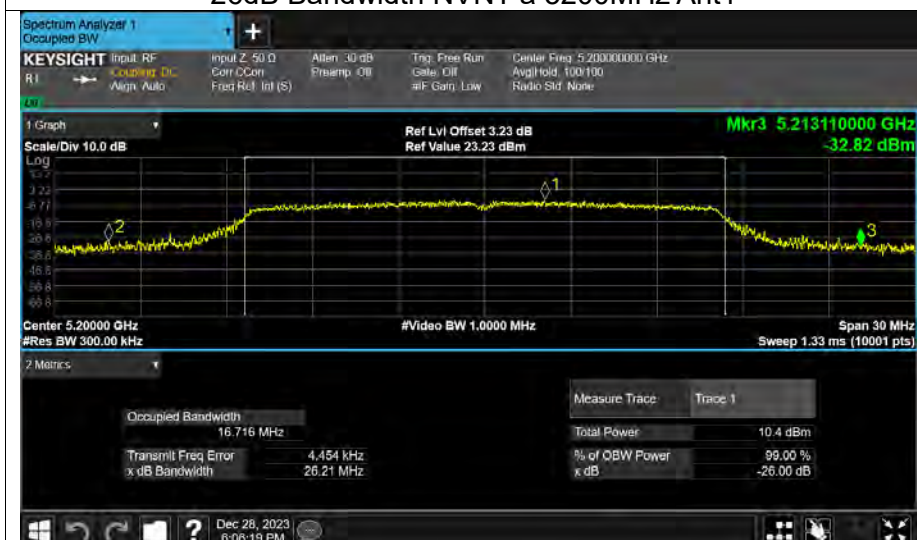


## Test Graphs

### -26dB Bandwidth NVNT a 5180MHz Ant1



### -26dB Bandwidth NVNT a 5200MHz Ant1



### -26dB Bandwidth NVNT a 5240MHz Ant1





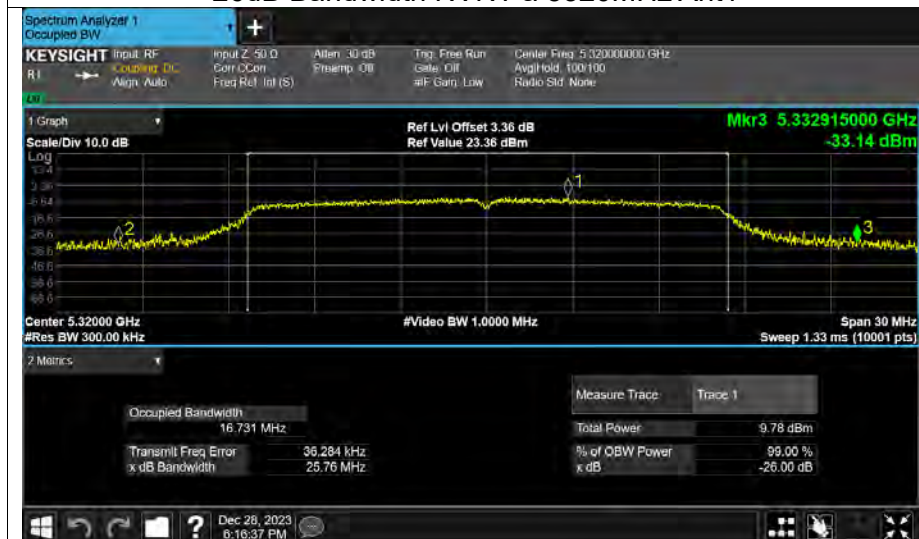
### -26dB Bandwidth NVNT a 5260MHz Ant1



### -26dB Bandwidth NVNT a 5300MHz Ant1

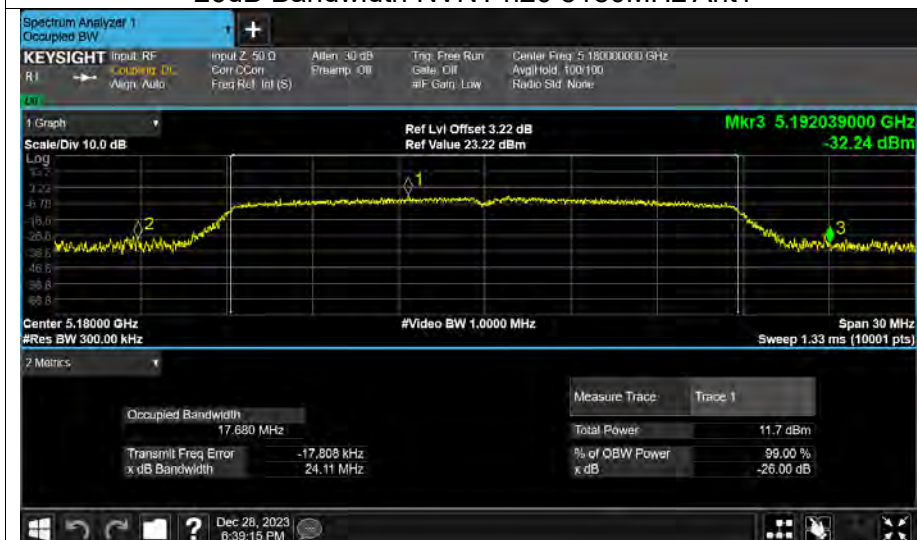


### -26dB Bandwidth NVNT a 5320MHz Ant1





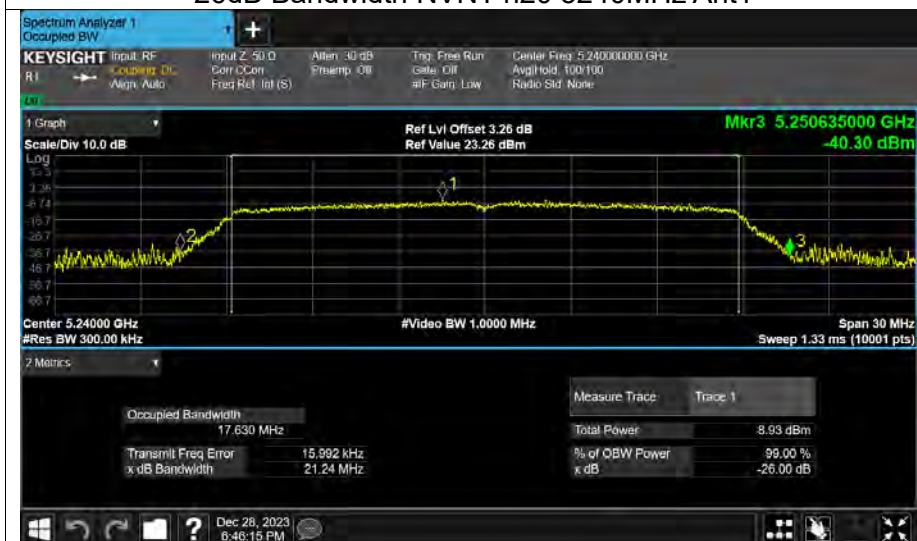
### -26dB Bandwidth NVNT n20 5180MHz Ant1



### -26dB Bandwidth NVNT n20 5200MHz Ant1



### -26dB Bandwidth NVNT n20 5240MHz Ant1





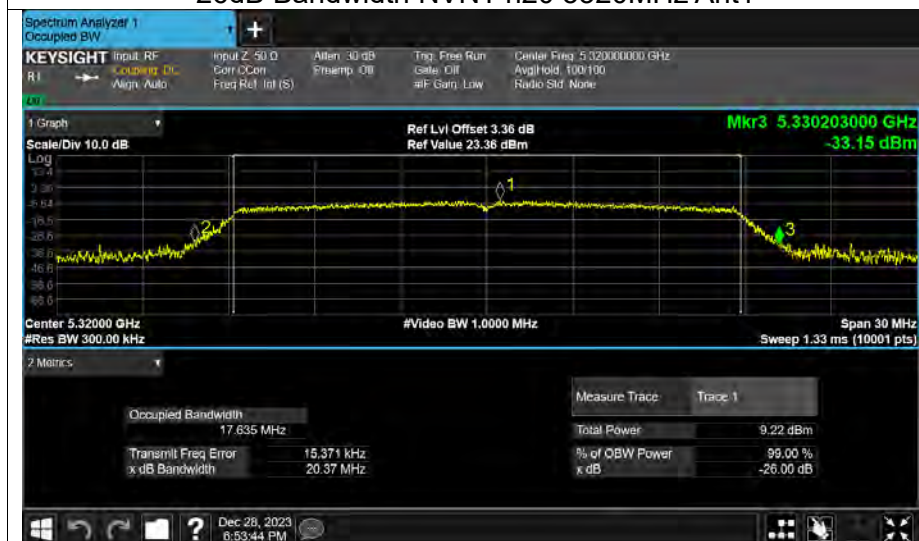
### -26dB Bandwidth NVNT n20 5260MHz Ant1



### -26dB Bandwidth NVNT n20 5300MHz Ant1



### -26dB Bandwidth NVNT n20 5320MHz Ant1

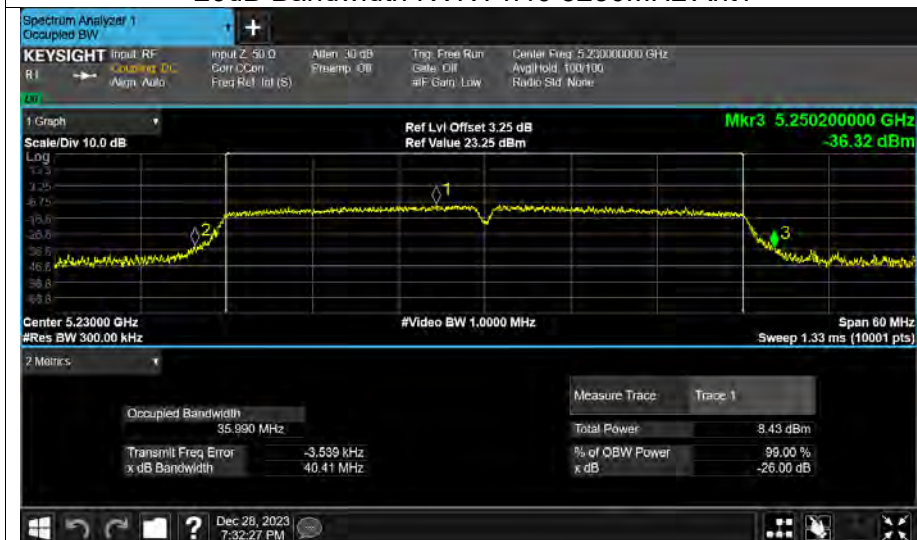




### -26dB Bandwidth NVNT n40 5190MHz Ant1



### -26dB Bandwidth NVNT n40 5230MHz Ant1



### -26dB Bandwidth NVNT n40 5270MHz Ant1





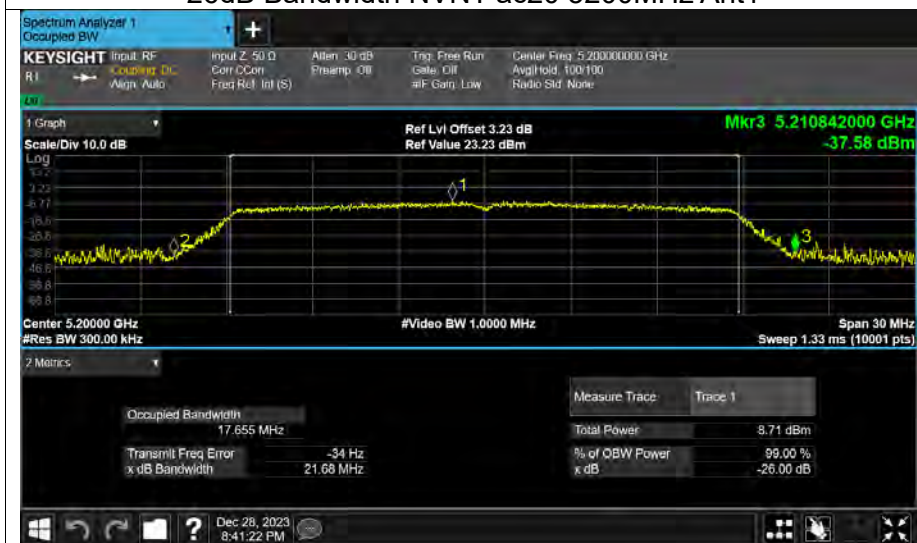
### -26dB Bandwidth NVNT n40 5310MHz Ant1

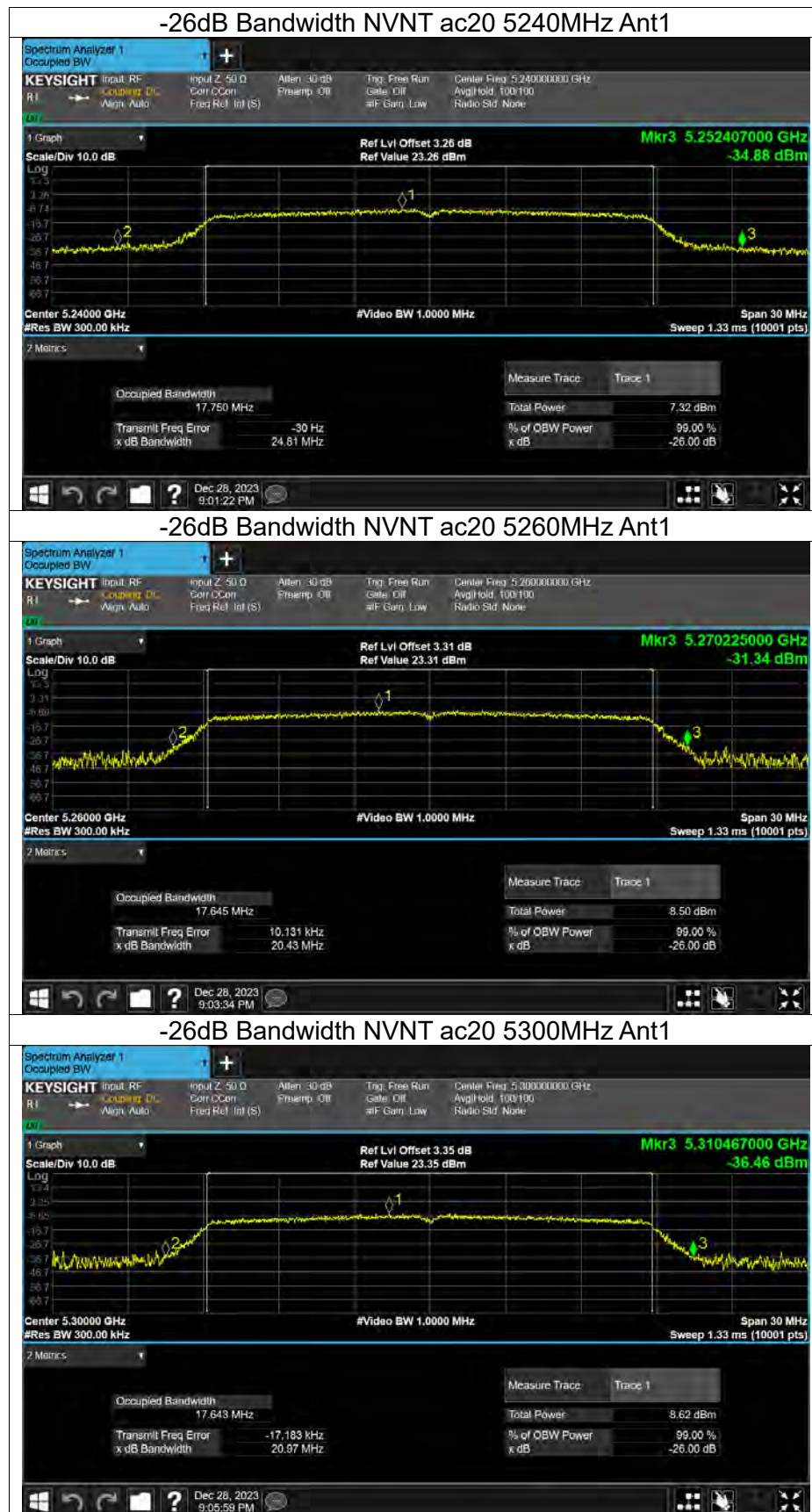


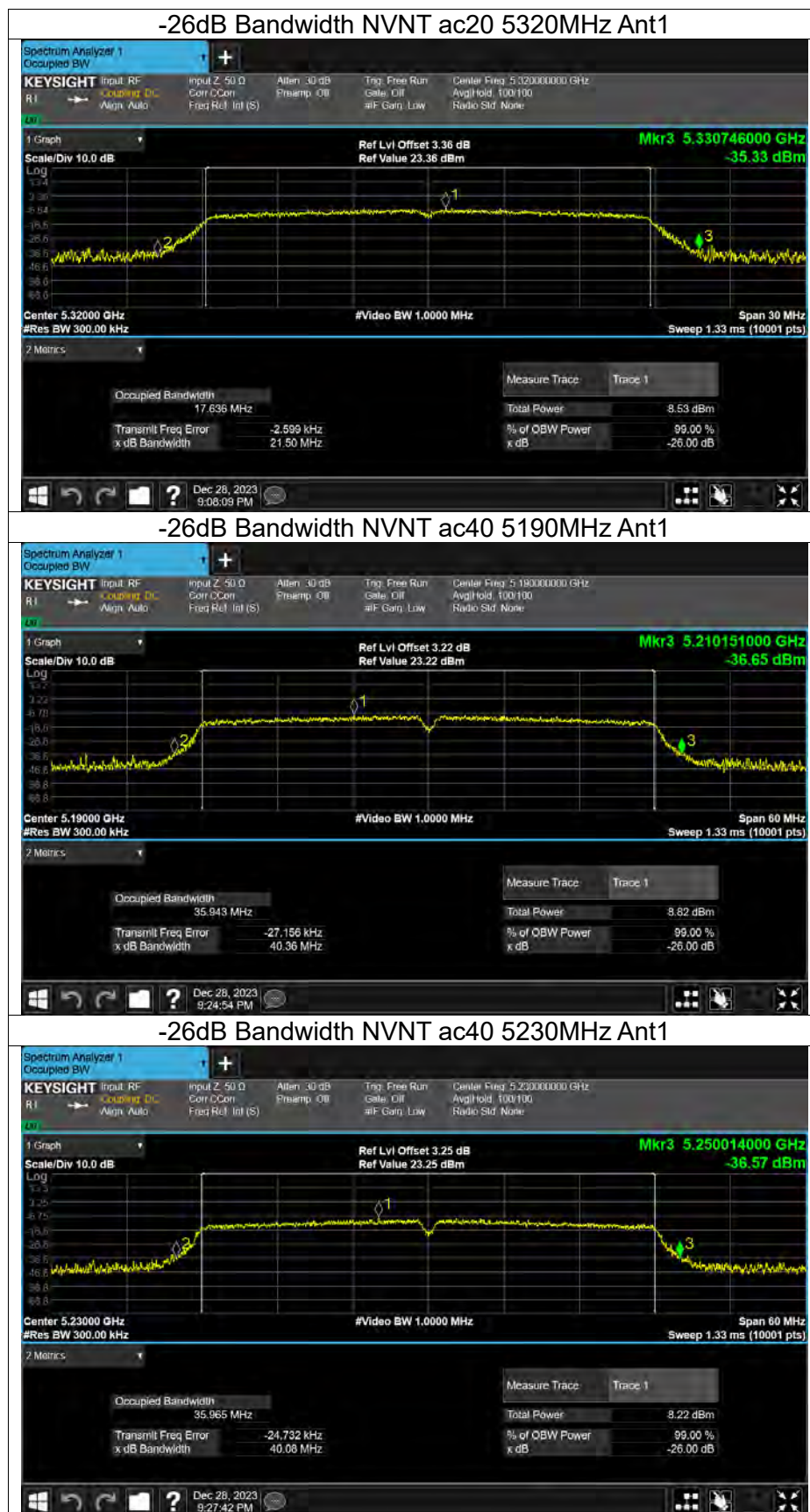
### -26dB Bandwidth NVNT ac20 5180MHz Ant1



### -26dB Bandwidth NVNT ac20 5200MHz Ant1









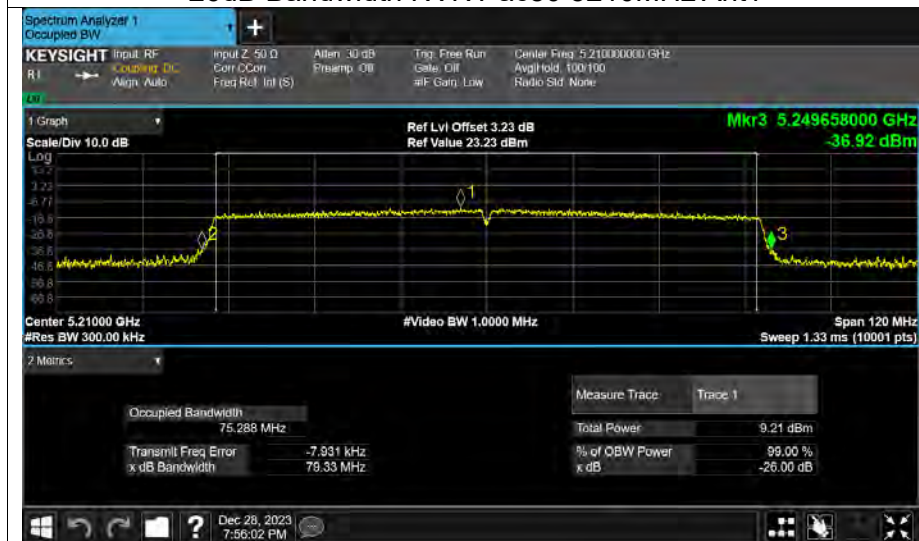
### -26dB Bandwidth NVNT ac40 5270MHz Ant1

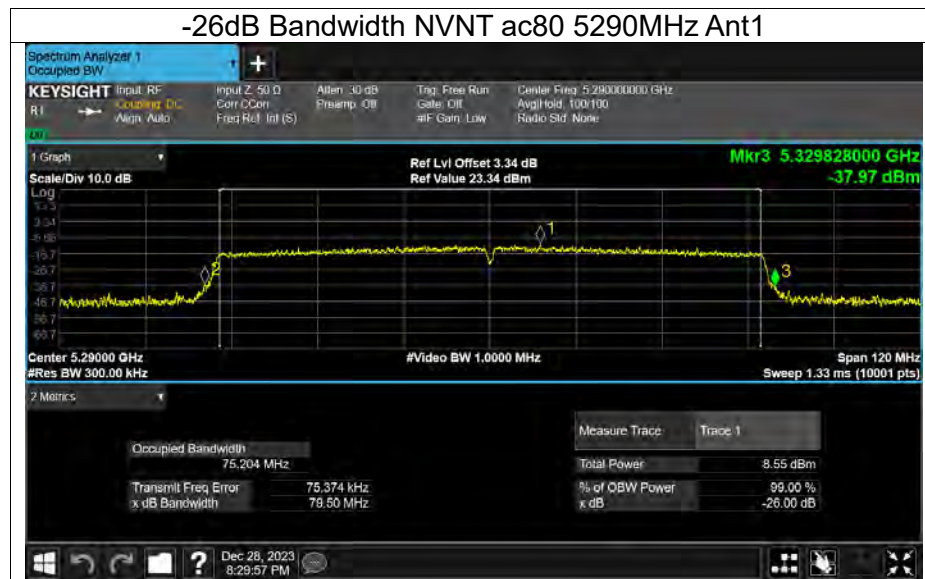


### -26dB Bandwidth NVNT ac40 5310MHz Ant1



### -26dB Bandwidth NVNT ac80 5210MHz Ant1







## Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | a    | 5180            | Ant1    | 16.598        |
| NVNT      | a    | 5200            | Ant1    | 16.551        |
| NVNT      | a    | 5240            | Ant1    | 16.557        |
| NVNT      | a    | 5260            | Ant1    | 16.511        |
| NVNT      | a    | 5300            | Ant1    | 16.527        |
| NVNT      | a    | 5320            | Ant1    | 16.549        |
| NVNT      | a    | 5745            | Ant1    | 16.562        |
| NVNT      | a    | 5785            | Ant1    | 16.465        |
| NVNT      | a    | 5825            | Ant1    | 16.493        |
| NVNT      | n20  | 5180            | Ant1    | 17.606        |
| NVNT      | n20  | 5200            | Ant1    | 17.578        |
| NVNT      | n20  | 5240            | Ant1    | 17.574        |
| NVNT      | n20  | 5260            | Ant1    | 17.566        |
| NVNT      | n20  | 5300            | Ant1    | 17.595        |
| NVNT      | n20  | 5320            | Ant1    | 17.591        |
| NVNT      | n20  | 5745            | Ant1    | 17.561        |
| NVNT      | n20  | 5785            | Ant1    | 17.567        |
| NVNT      | n20  | 5825            | Ant1    | 17.565        |
| NVNT      | n40  | 5190            | Ant1    | 35.975        |
| NVNT      | n40  | 5230            | Ant1    | 36.028        |
| NVNT      | n40  | 5270            | Ant1    | 35.983        |
| NVNT      | n40  | 5310            | Ant1    | 36.033        |
| NVNT      | n40  | 5510            | Ant1    | 36.064        |
| NVNT      | n40  | 5550            | Ant1    | 35.946        |
| NVNT      | n40  | 5670            | Ant1    | 35.978        |
| NVNT      | n40  | 5755            | Ant1    | 35.962        |
| NVNT      | n40  | 5795            | Ant1    | 35.919        |
| NVNT      | ac20 | 5180            | Ant1    | 17.58         |
| NVNT      | ac20 | 5200            | Ant1    | 17.583        |
| NVNT      | ac20 | 5240            | Ant1    | 17.638        |
| NVNT      | ac20 | 5260            | Ant1    | 17.571        |
| NVNT      | ac20 | 5300            | Ant1    | 17.574        |
| NVNT      | ac20 | 5320            | Ant1    | 17.572        |
| NVNT      | ac20 | 5745            | Ant1    | 17.548        |
| NVNT      | ac20 | 5785            | Ant1    | 17.547        |
| NVNT      | ac20 | 5825            | Ant1    | 17.554        |
| NVNT      | ac40 | 5190            | Ant1    | 35.984        |
| NVNT      | ac40 | 5230            | Ant1    | 36.038        |
| NVNT      | ac40 | 5270            | Ant1    | 35.933        |
| NVNT      | ac40 | 5310            | Ant1    | 36.017        |
| NVNT      | ac40 | 5755            | Ant1    | 35.921        |
| NVNT      | ac40 | 5795            | Ant1    | 35.925        |
| NVNT      | ac80 | 5210            | Ant1    | 75.343        |
| NVNT      | ac80 | 5290            | Ant1    | 75.215        |
| NVNT      | ac80 | 5775            | Ant1    | 75.112        |





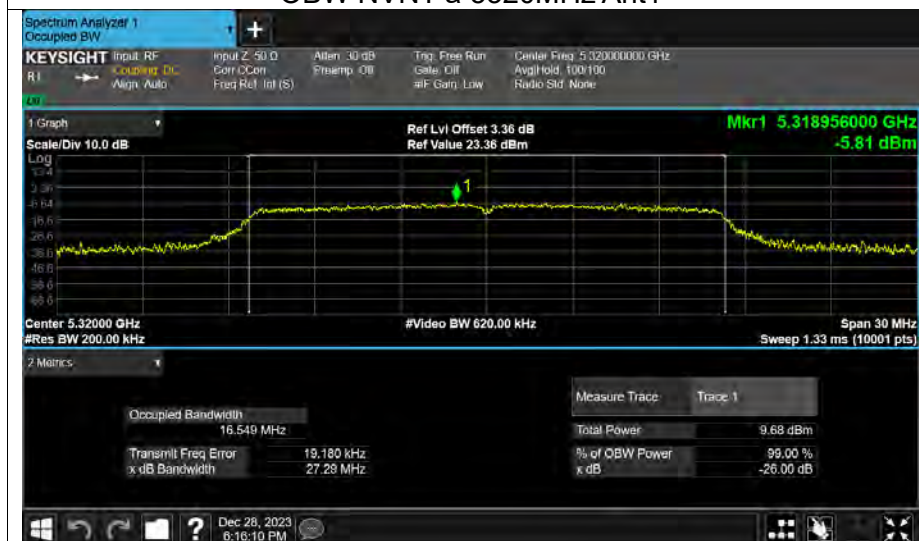
### OBW NVNT a 5260MHz Ant1



### OBW NVNT a 5300MHz Ant1



### OBW NVNT a 5320MHz Ant1





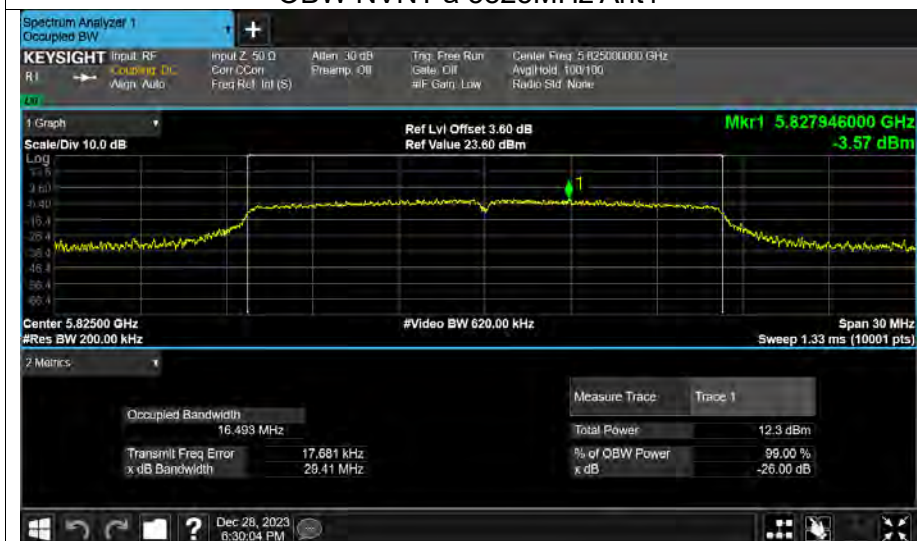
### OBW NVNT a 5745MHz Ant1

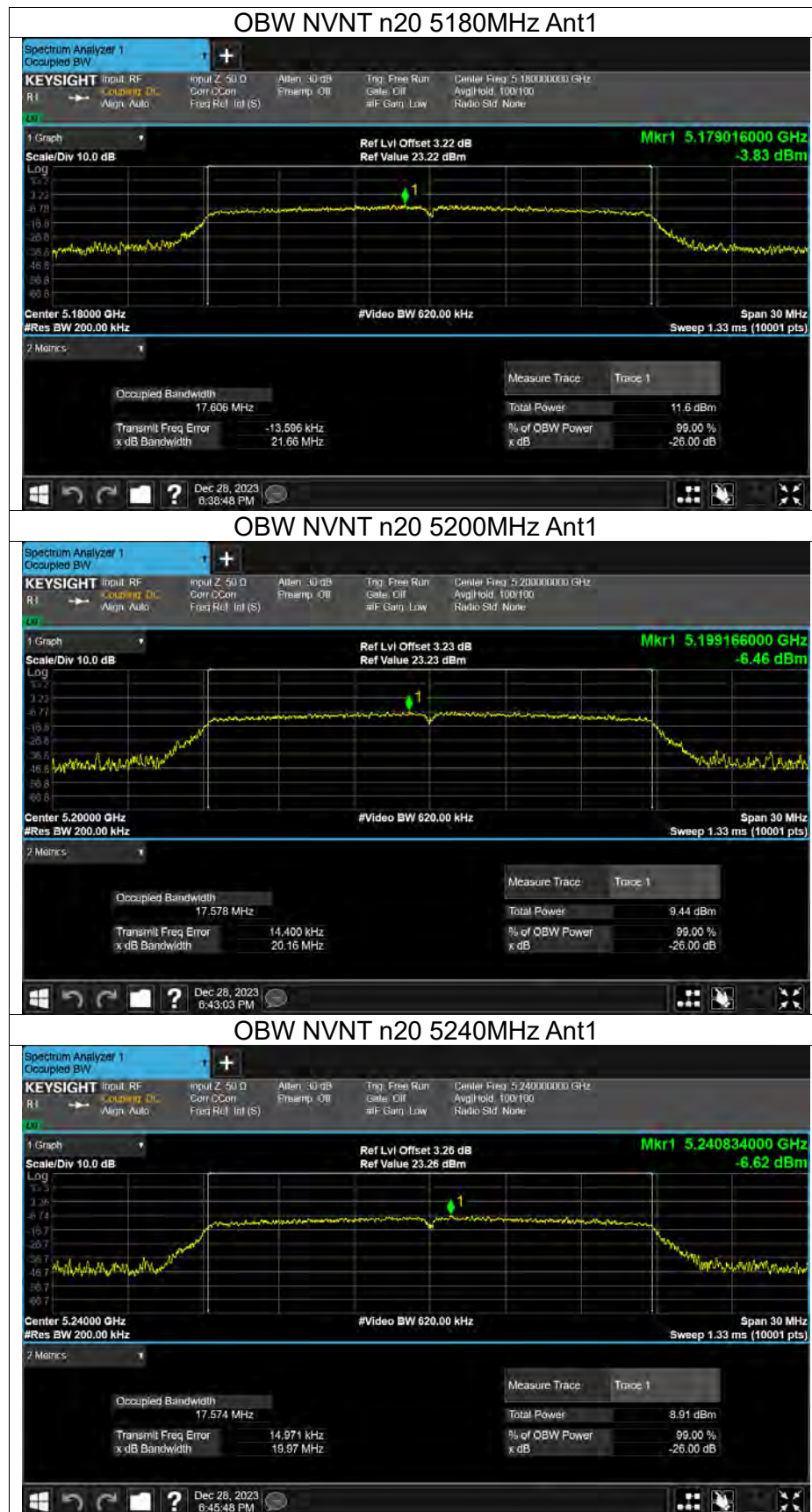


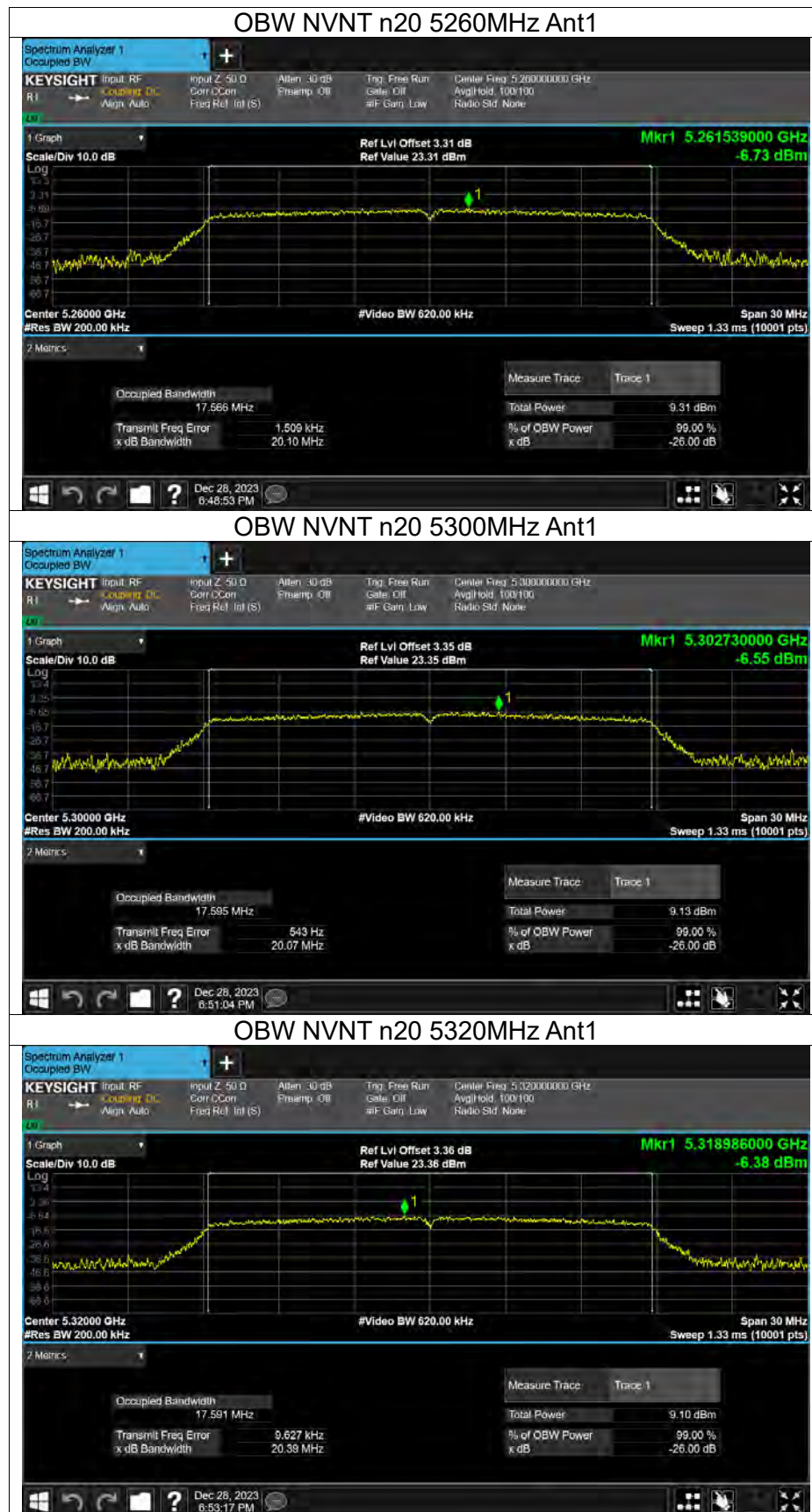
### OBW NVNT a 5785MHz Ant1

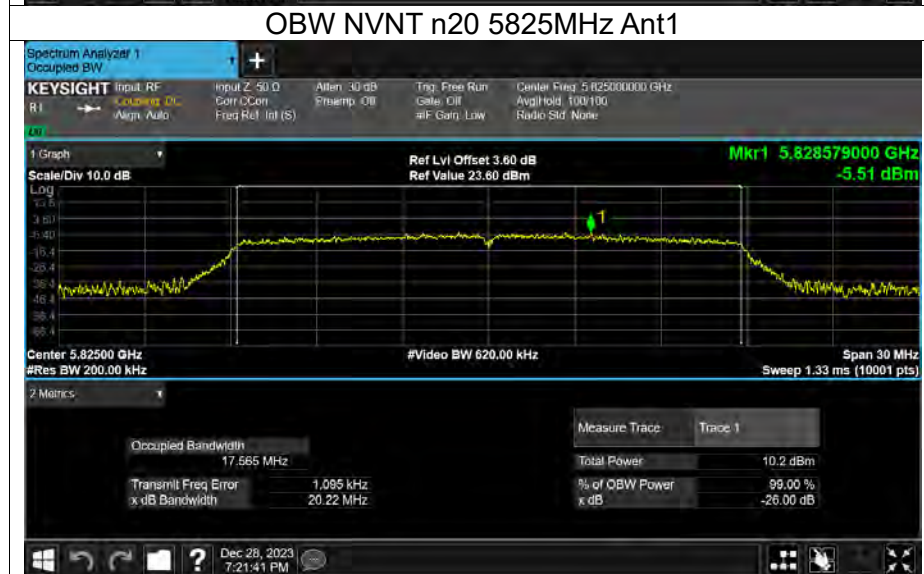
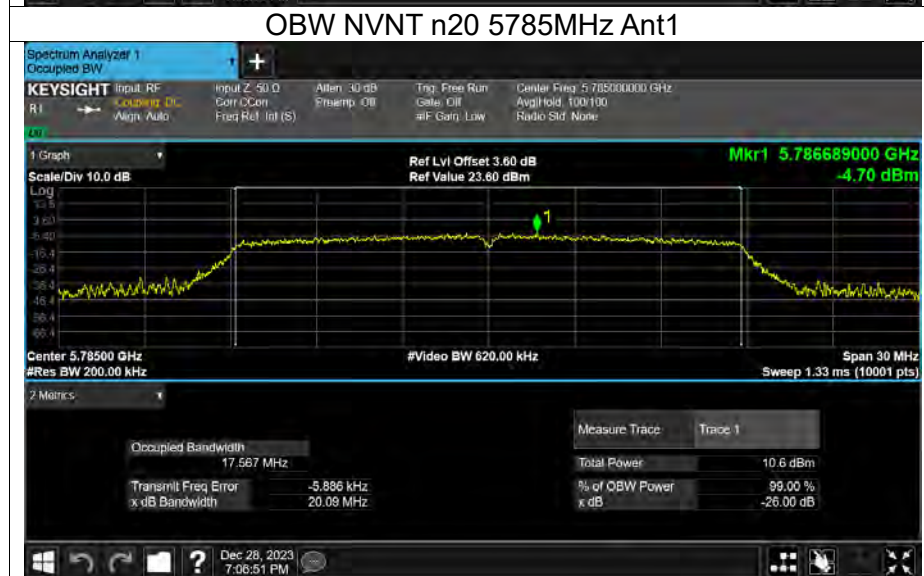
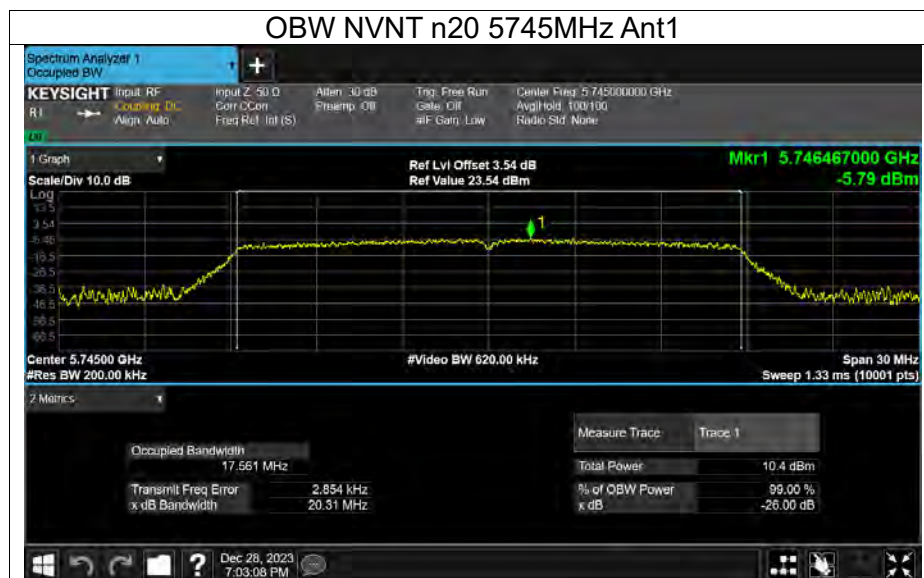


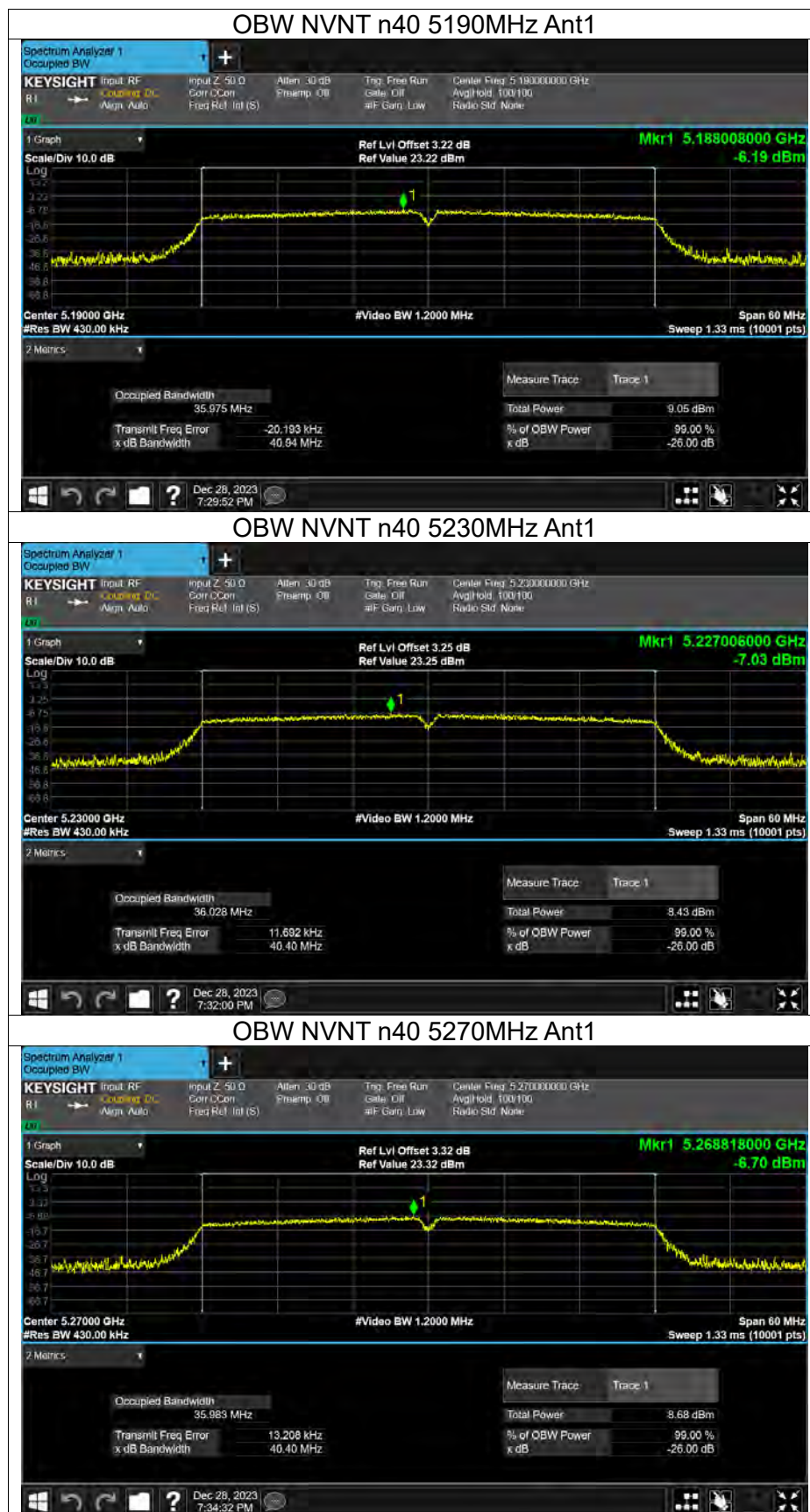
### OBW NVNT a 5825MHz Ant1

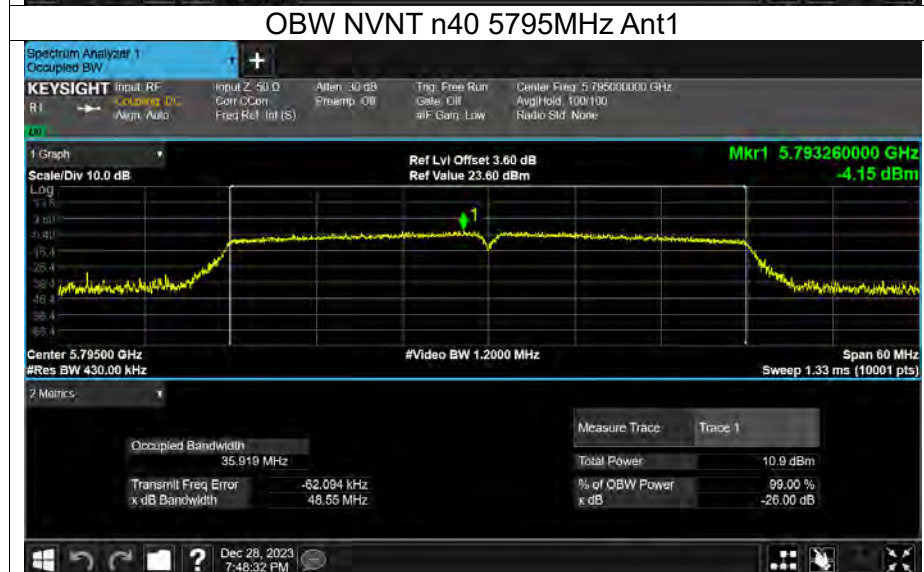
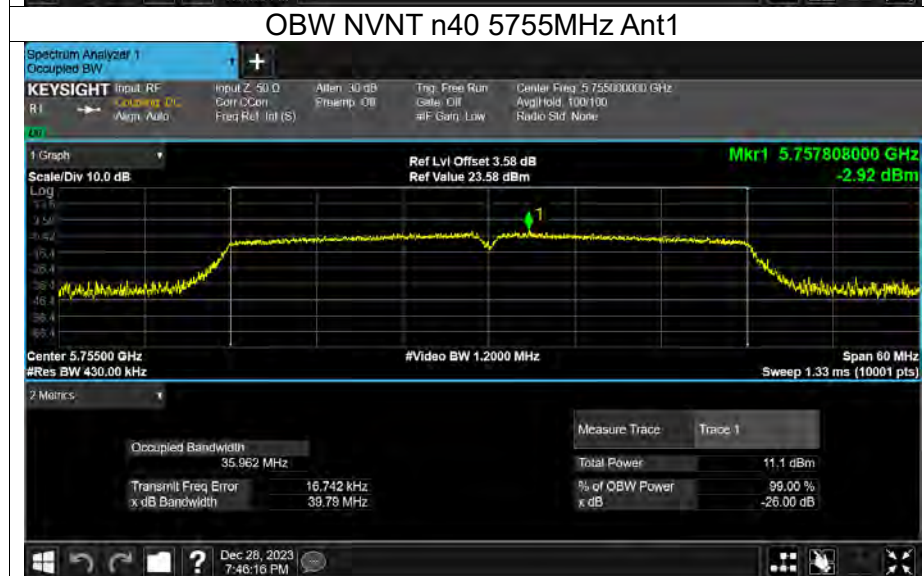
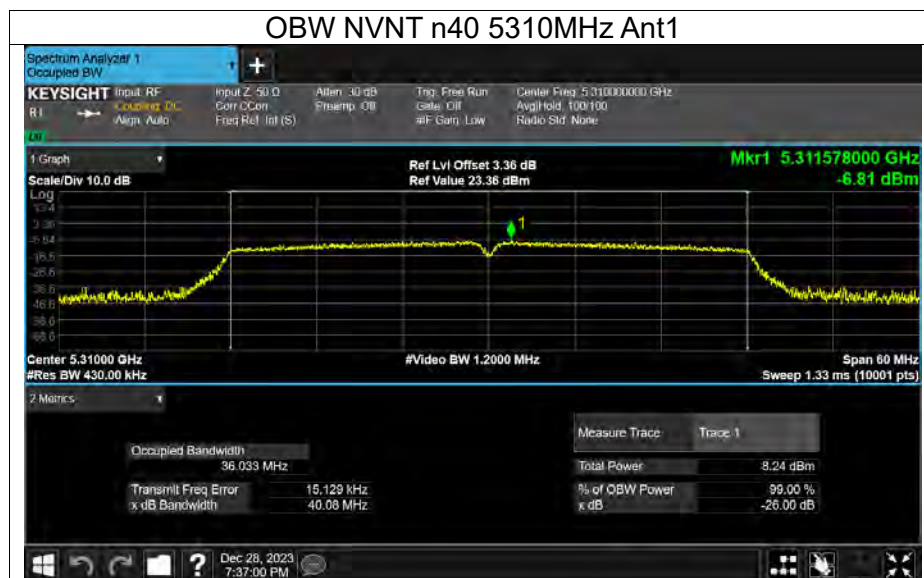




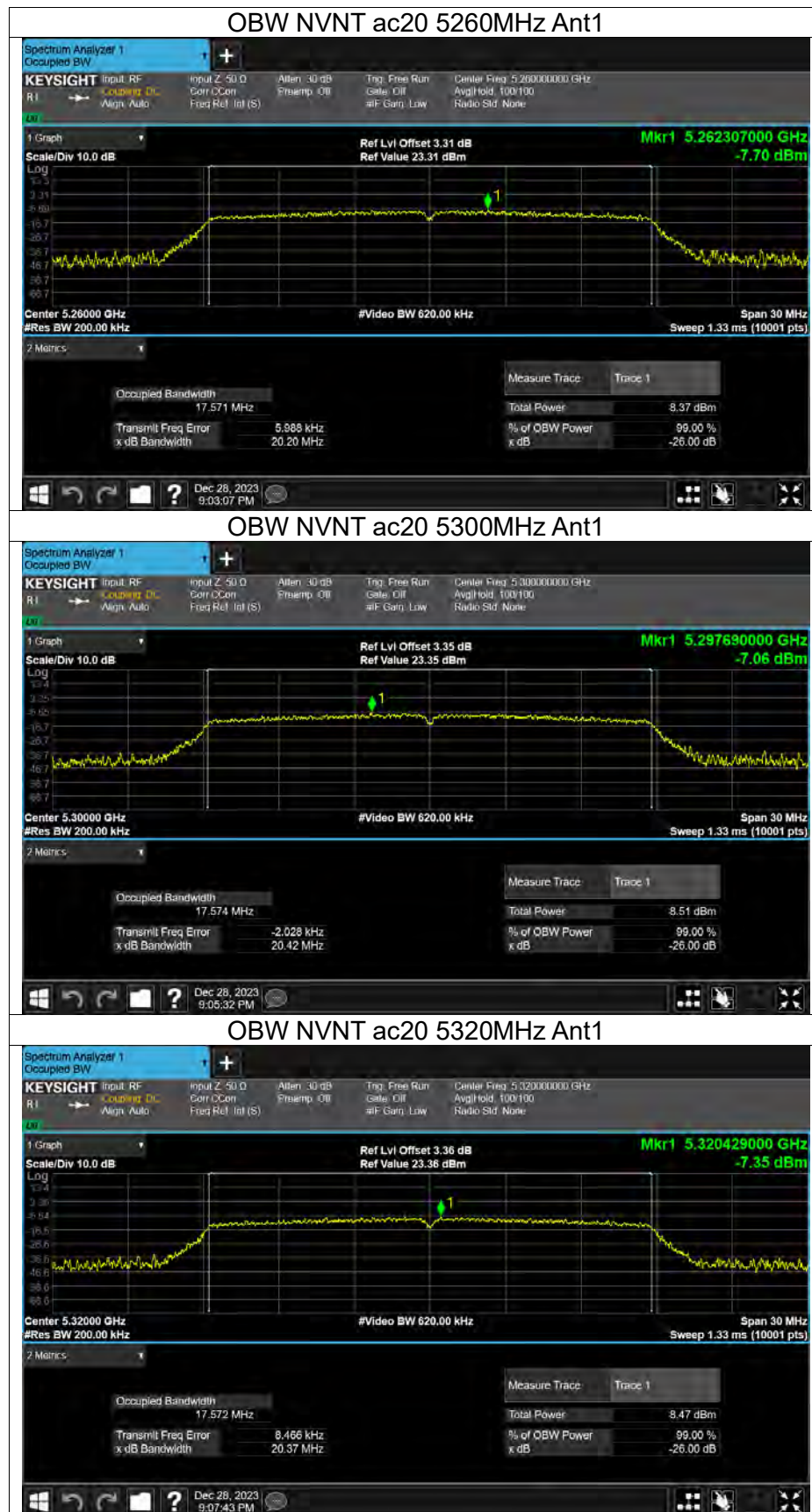


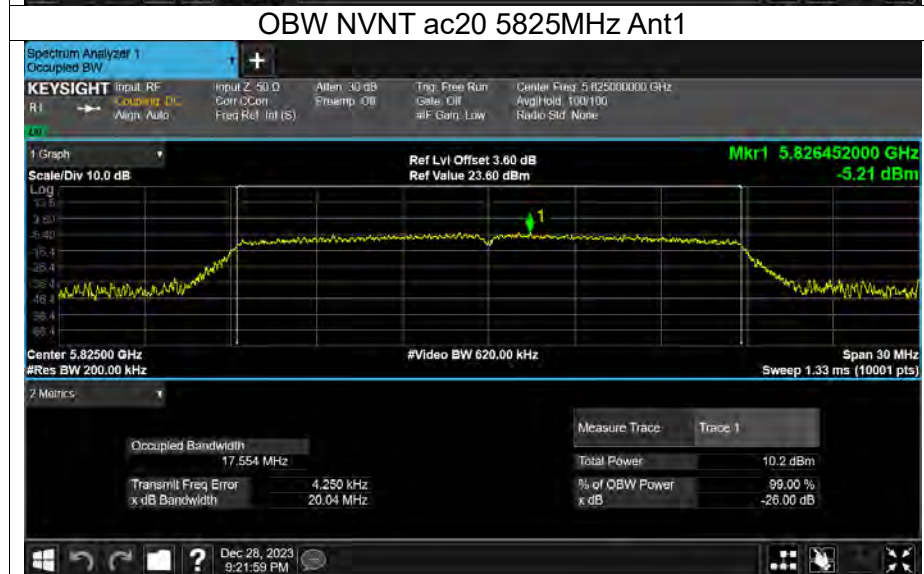
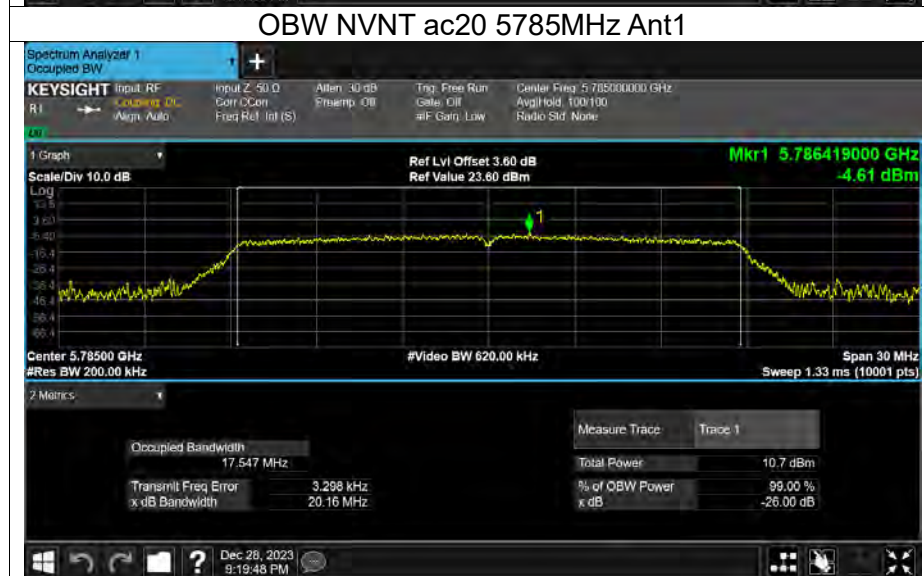
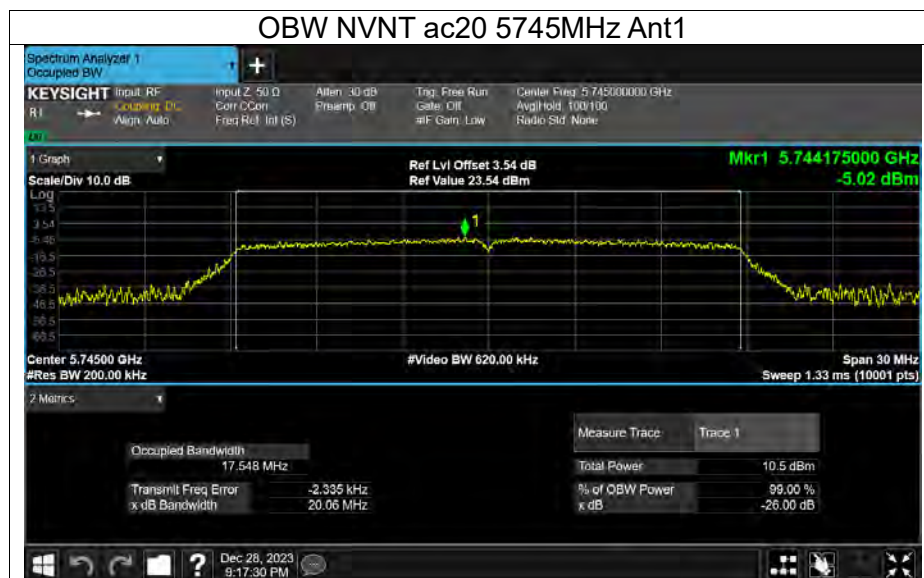


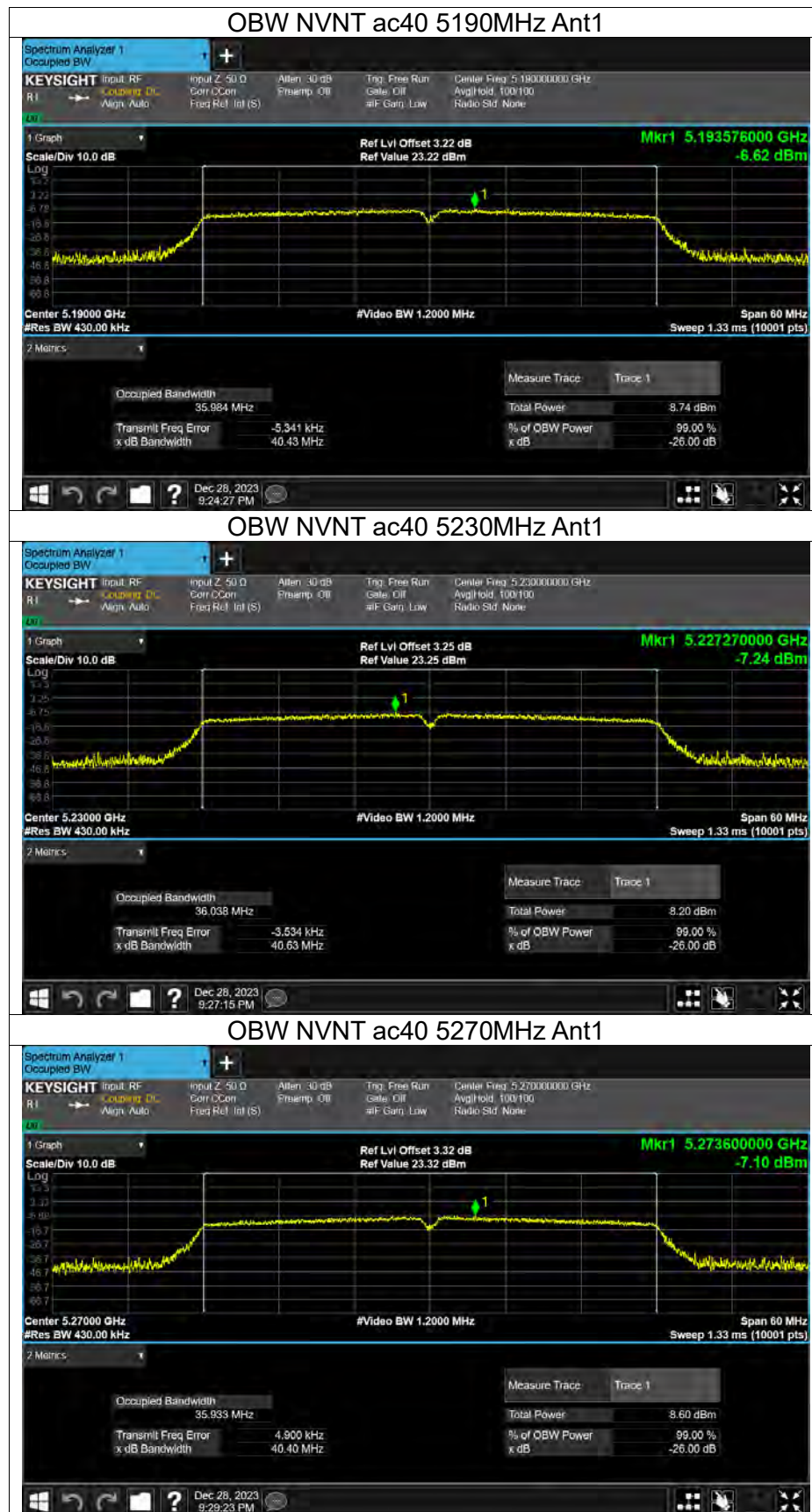


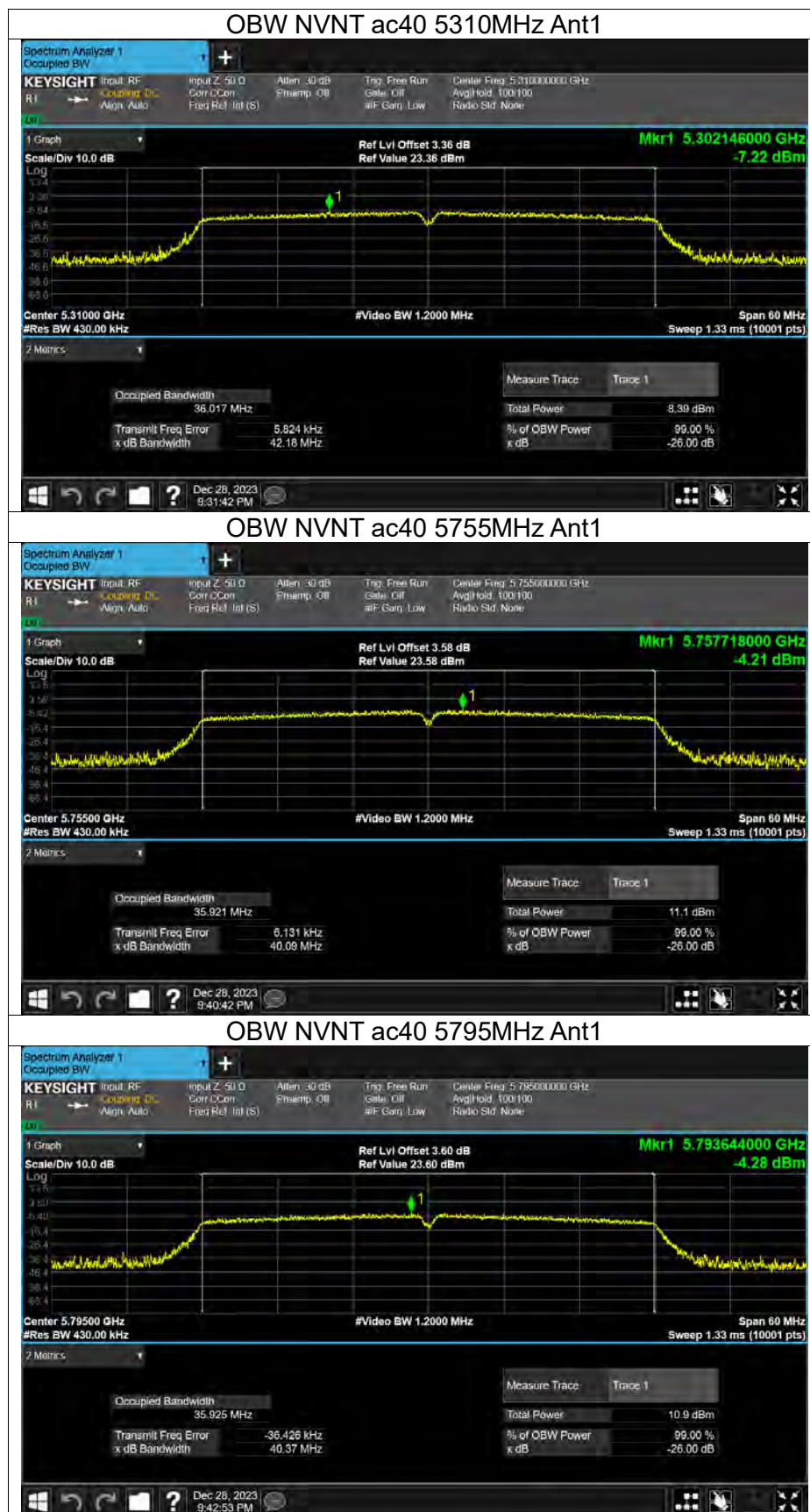


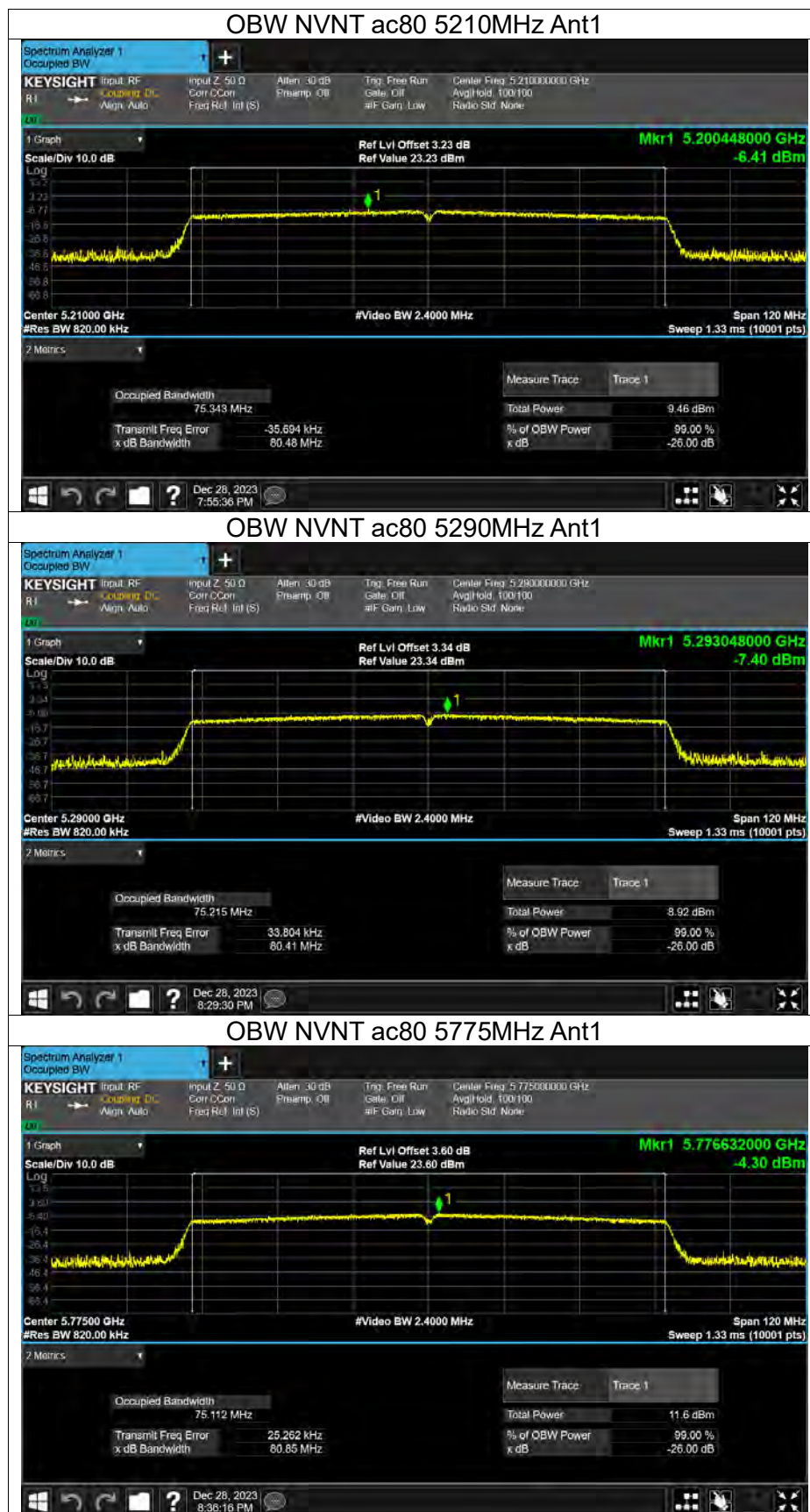












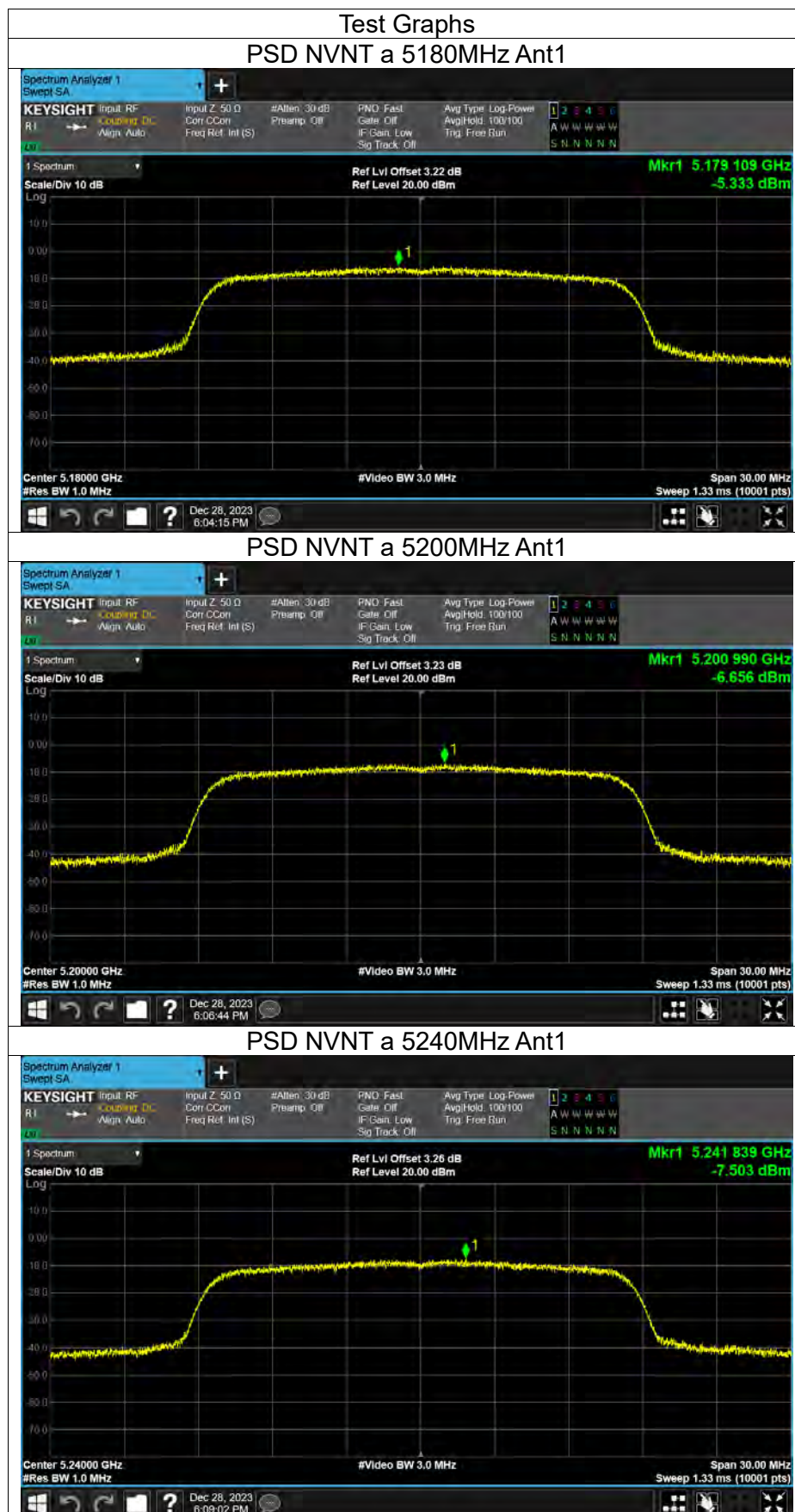


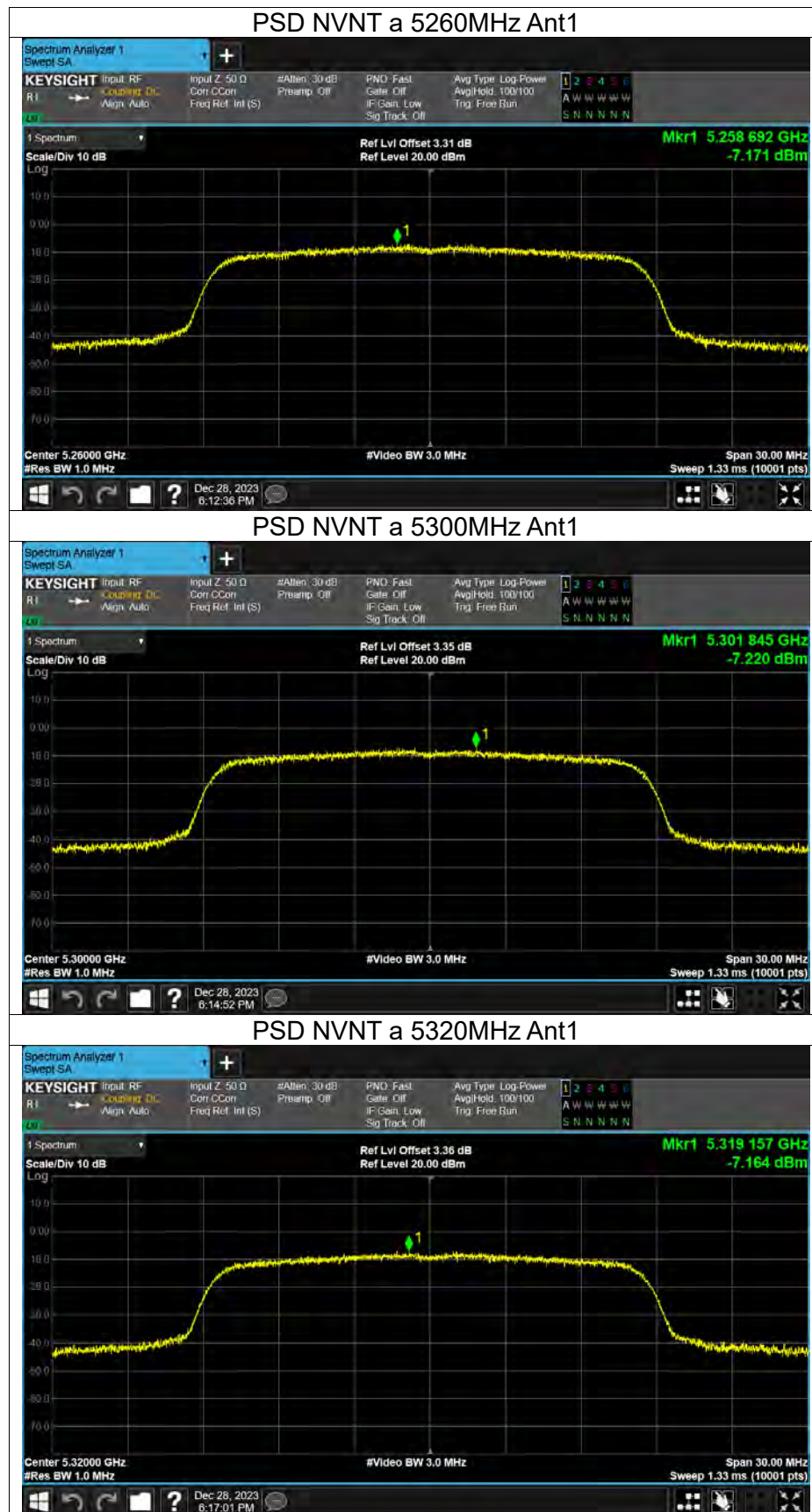
# Maximum Power Spectral Density Level

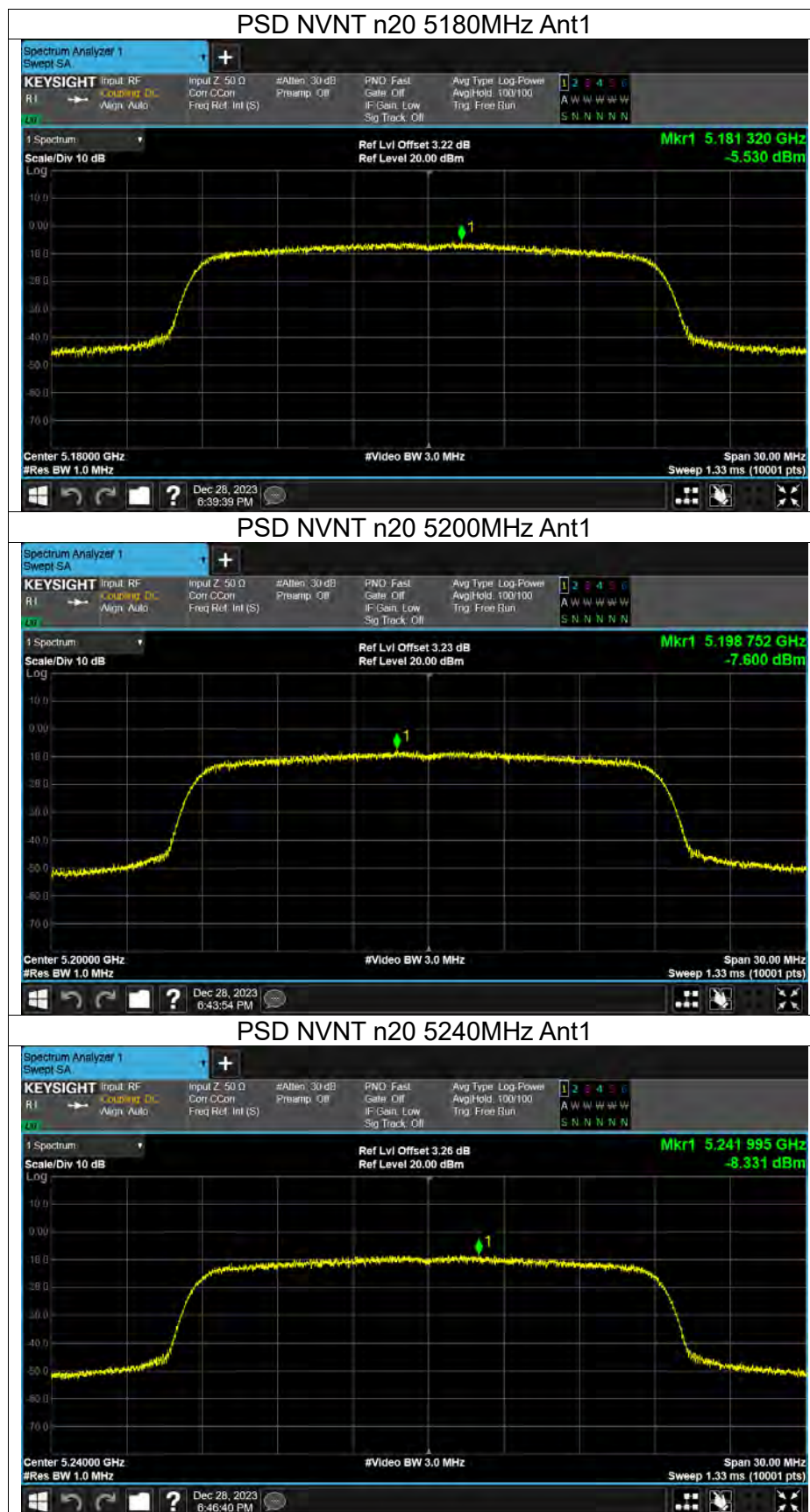
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/MHz)     | Duty Factor (dB) | Total PSD (dBm/MHz)     | Limit (dBm/MHz)    | Verdict |
|-----------|------|-----------------|---------|-----------------------------|------------------|-------------------------|--------------------|---------|
| NVNT      | a    | 5180            | Ant1    | -5.33                       | 0                | -5.33                   | 11                 | Pass    |
| NVNT      | a    | 5200            | Ant1    | -6.66                       | 0                | -6.66                   | 11                 | Pass    |
| NVNT      | a    | 5240            | Ant1    | -7.5                        | 0                | -7.5                    | 11                 | Pass    |
| NVNT      | a    | 5260            | Ant1    | -7.17                       | 0                | -7.17                   | 11                 | Pass    |
| NVNT      | a    | 5300            | Ant1    | -7.22                       | 0                | -7.22                   | 11                 | Pass    |
| NVNT      | a    | 5320            | Ant1    | -7.16                       | 0                | -7.16                   | 11                 | Pass    |
| NVNT      | n20  | 5180            | Ant1    | -5.53                       | 0                | -5.53                   | 11                 | Pass    |
| NVNT      | n20  | 5200            | Ant1    | -7.6                        | 0                | -7.6                    | 11                 | Pass    |
| NVNT      | n20  | 5240            | Ant1    | -8.33                       | 0                | -8.33                   | 11                 | Pass    |
| NVNT      | n20  | 5260            | Ant1    | -7.9                        | 0                | -7.9                    | 11                 | Pass    |
| NVNT      | n20  | 5300            | Ant1    | -7.99                       | 0                | -7.99                   | 11                 | Pass    |
| NVNT      | n20  | 5320            | Ant1    | -8.03                       | 0                | -8.03                   | 11                 | Pass    |
| NVNT      | n20  | 5500            | Ant1    | -7.43                       | 0                | -7.43                   | 11                 | Pass    |
| NVNT      | n20  | 5580            | Ant1    | -7.84                       | 0                | -7.84                   | 11                 | Pass    |
| NVNT      | n20  | 5700            | Ant1    | -7.06                       | 0                | -7.06                   | 11                 | Pass    |
| NVNT      | n40  | 5190            | Ant1    | -11.33                      | 0                | -11.33                  | 11                 | Pass    |
| NVNT      | n40  | 5230            | Ant1    | -11.8                       | 0                | -11.8                   | 11                 | Pass    |
| NVNT      | n40  | 5270            | Ant1    | -11.51                      | 0                | -11.51                  | 11                 | Pass    |
| NVNT      | n40  | 5310            | Ant1    | -12.12                      | 0                | -12.12                  | 11                 | Pass    |
| NVNT      | n40  | 5510            | Ant1    | -11.53                      | 0                | -11.53                  | 11                 | Pass    |
| NVNT      | n40  | 5550            | Ant1    | -10.88                      | 0                | -10.88                  | 11                 | Pass    |
| NVNT      | n40  | 5670            | Ant1    | -9.27                       | 0                | -9.27                   | 11                 | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | -7.86                       | 0                | -7.86                   | 11                 | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | -8.84                       | 0                | -8.84                   | 11                 | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | -9.79                       | 0                | -9.79                   | 11                 | Pass    |
| NVNT      | ac20 | 5260            | Ant1    | -8.71                       | 0                | -8.71                   | 11                 | Pass    |
| NVNT      | ac20 | 5300            | Ant1    | -8.51                       | 0                | -8.51                   | 11                 | Pass    |
| NVNT      | ac20 | 5320            | Ant1    | -8.86                       | 0                | -8.86                   | 11                 | Pass    |
| NVNT      | ac20 | 5500            | Ant1    | -6.84                       | 0                | -6.84                   | 11                 | Pass    |
| NVNT      | ac20 | 5580            | Ant1    | -7.52                       | 0                | -7.52                   | 11                 | Pass    |
| NVNT      | ac20 | 5700            | Ant1    | -6.99                       | 0                | -6.99                   | 11                 | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | -11.67                      | 0                | -11.67                  | 11                 | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | -12.03                      | 0                | -12.03                  | 11                 | Pass    |
| NVNT      | ac40 | 5270            | Ant1    | -11.43                      | 0                | -11.43                  | 11                 | Pass    |
| NVNT      | ac40 | 5310            | Ant1    | -12                         | 0                | -12                     | 11                 | Pass    |
| NVNT      | ac40 | 5510            | Ant1    | -10.6                       | 0                | -10.6                   | 11                 | Pass    |
| NVNT      | ac40 | 5550            | Ant1    | -10.41                      | 0                | -10.41                  | 11                 | Pass    |
| NVNT      | ac40 | 5670            | Ant1    | -8.55                       | 0                | -8.55                   | 11                 | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | -14.38                      | 0                | -14.38                  | 11                 | Pass    |
| NVNT      | ac80 | 5290            | Ant1    | -15.49                      | 0                | -15.49                  | 11                 | Pass    |
| NVNT      | ac80 | 5530            | Ant1    | -14.81                      | 0                | -14.81                  | 11                 | Pass    |
| NVNT      | ac80 | 5610            | Ant1    | -13.39                      | 0                | -13.39                  | 11                 | Pass    |
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/500k Hz) | Duty Factor (dB) | Total PSD (dBm/500k Hz) | Limit (dBm/500kHz) | Verdict |
| NVNT      | a    | 5745            | Ant1    | -6.96                       | 0                | -6.96                   | 30                 | Pass    |
| NVNT      | a    | 5785            | Ant1    | -7.3                        | 0                | -7.3                    | 30                 | Pass    |
| NVNT      | a    | 5825            | Ant1    | -7.44                       | 0                | -7.44                   | 30                 | Pass    |
| NVNT      | n20  | 5745            | Ant1    | -9.51                       | 0                | -9.51                   | 30                 | Pass    |
| NVNT      | n20  | 5785            | Ant1    | -9.36                       | 0                | -9.36                   | 30                 | Pass    |

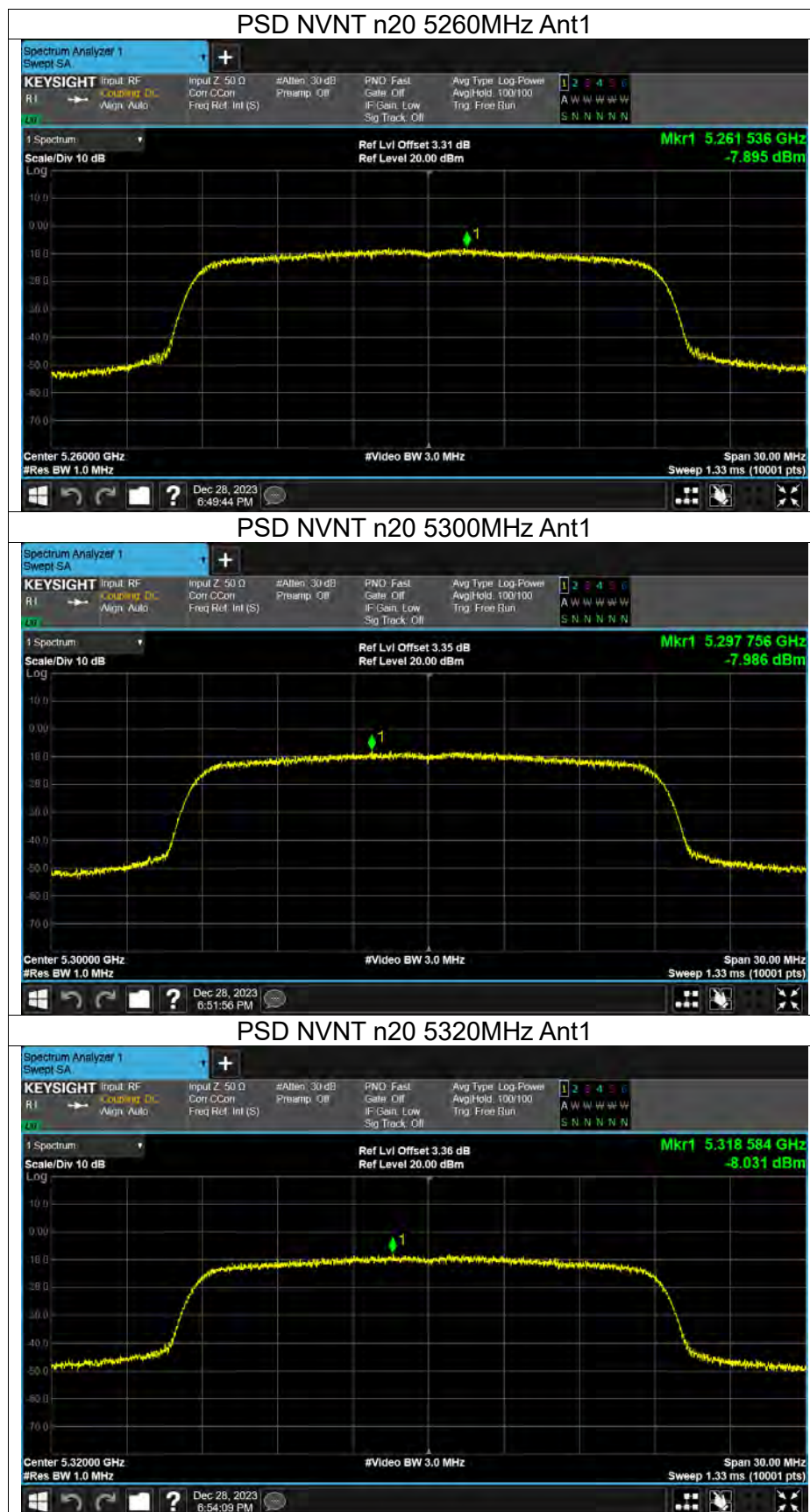


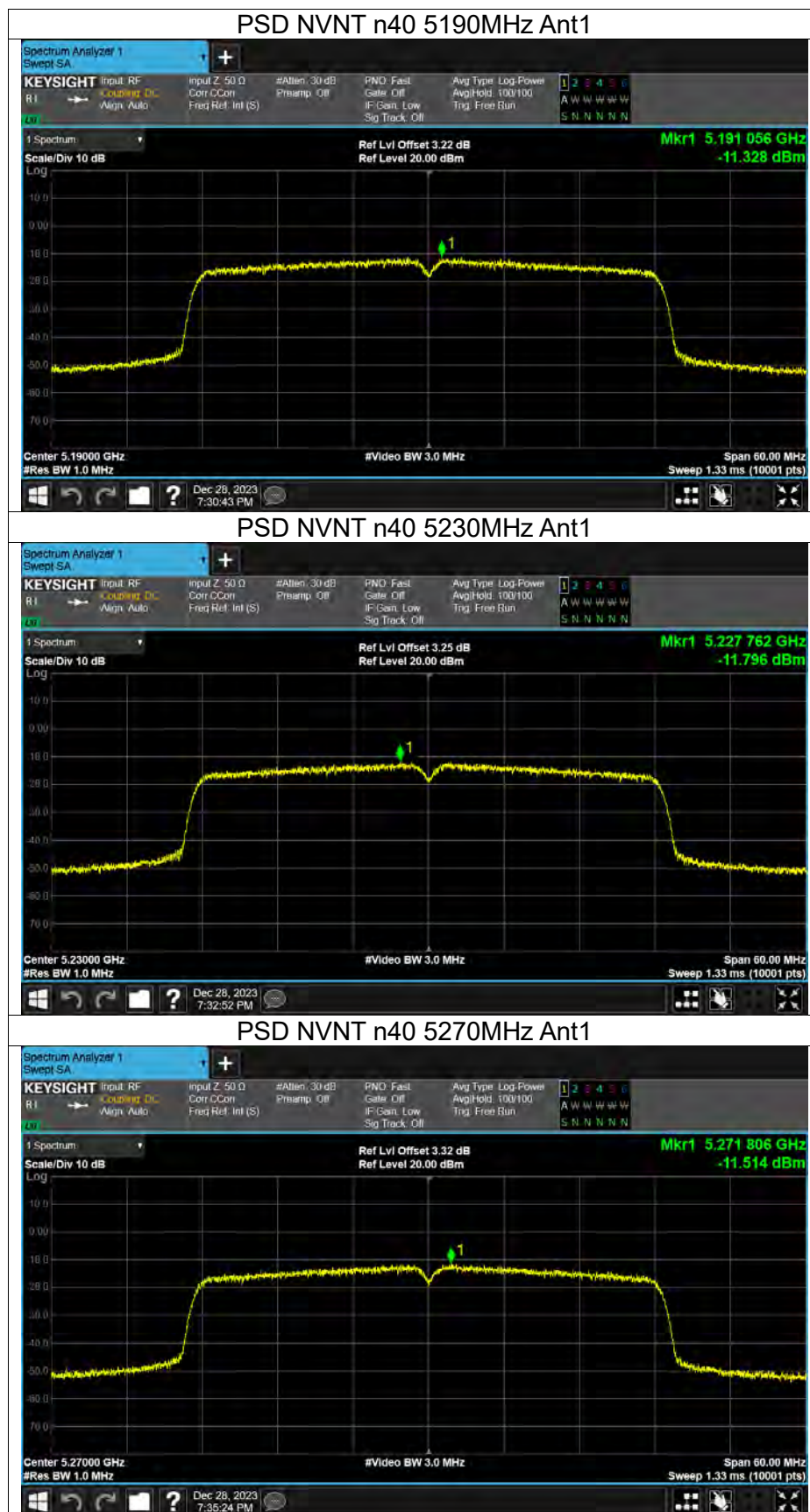
|      |      |      |      |        |   |        |    |      |
|------|------|------|------|--------|---|--------|----|------|
| NVNT | n20  | 5825 | Ant1 | -9.65  | 0 | -9.65  | 30 | Pass |
| NVNT | n40  | 5755 | Ant1 | -11.51 | 0 | -11.51 | 30 | Pass |
| NVNT | n40  | 5795 | Ant1 | -11.99 | 0 | -11.99 | 30 | Pass |
| NVNT | ac20 | 5745 | Ant1 | -9.58  | 0 | -9.58  | 30 | Pass |
| NVNT | ac20 | 5785 | Ant1 | -9.36  | 0 | -9.36  | 30 | Pass |
| NVNT | ac20 | 5825 | Ant1 | -9.7   | 0 | -9.7   | 30 | Pass |
| NVNT | ac40 | 5755 | Ant1 | -12.09 | 0 | -12.09 | 30 | Pass |
| NVNT | ac40 | 5795 | Ant1 | -12.24 | 0 | -12.24 | 30 | Pass |
| NVNT | ac80 | 5775 | Ant1 | -15.1  | 0 | -15.1  | 30 | Pass |

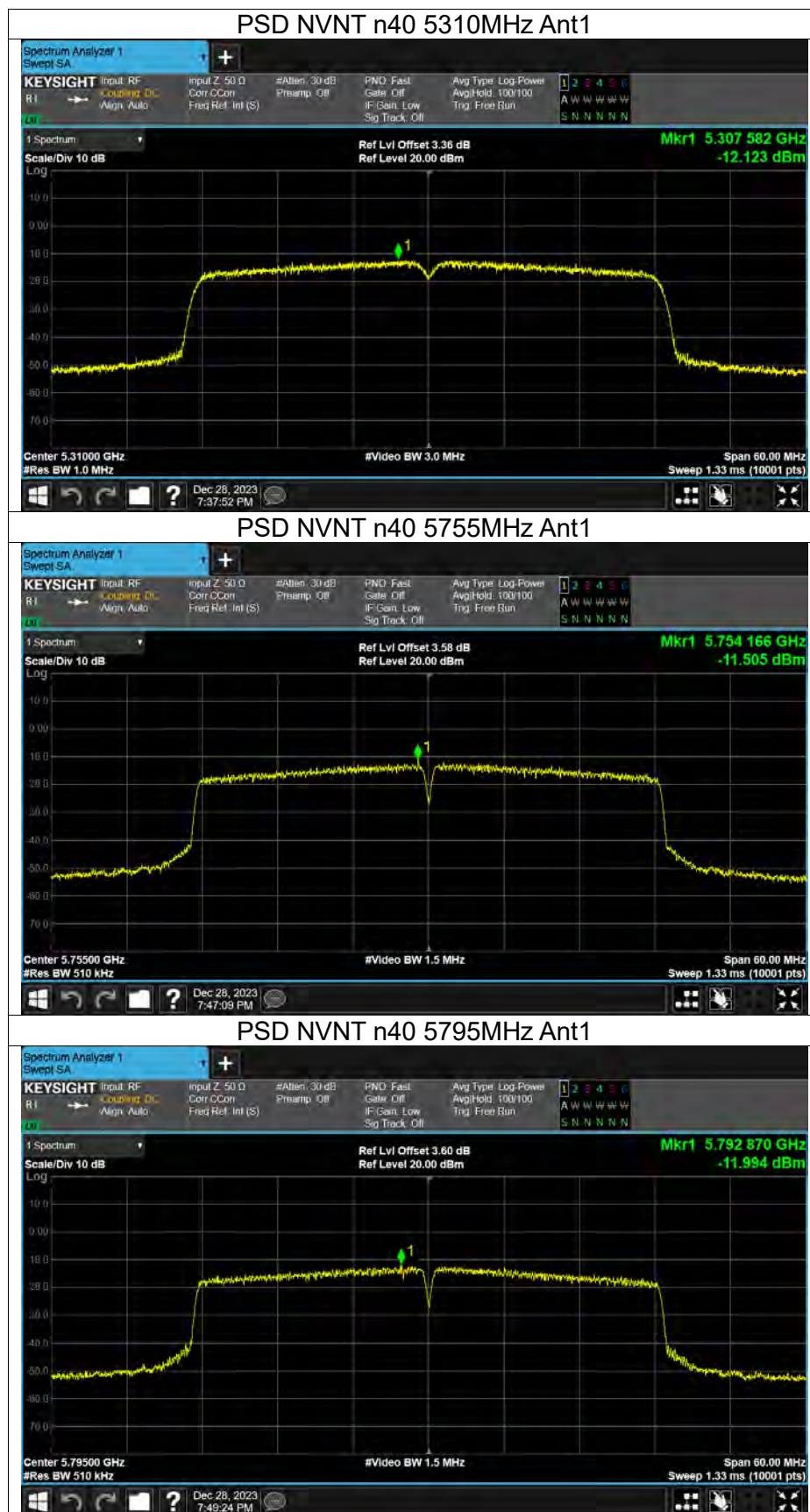


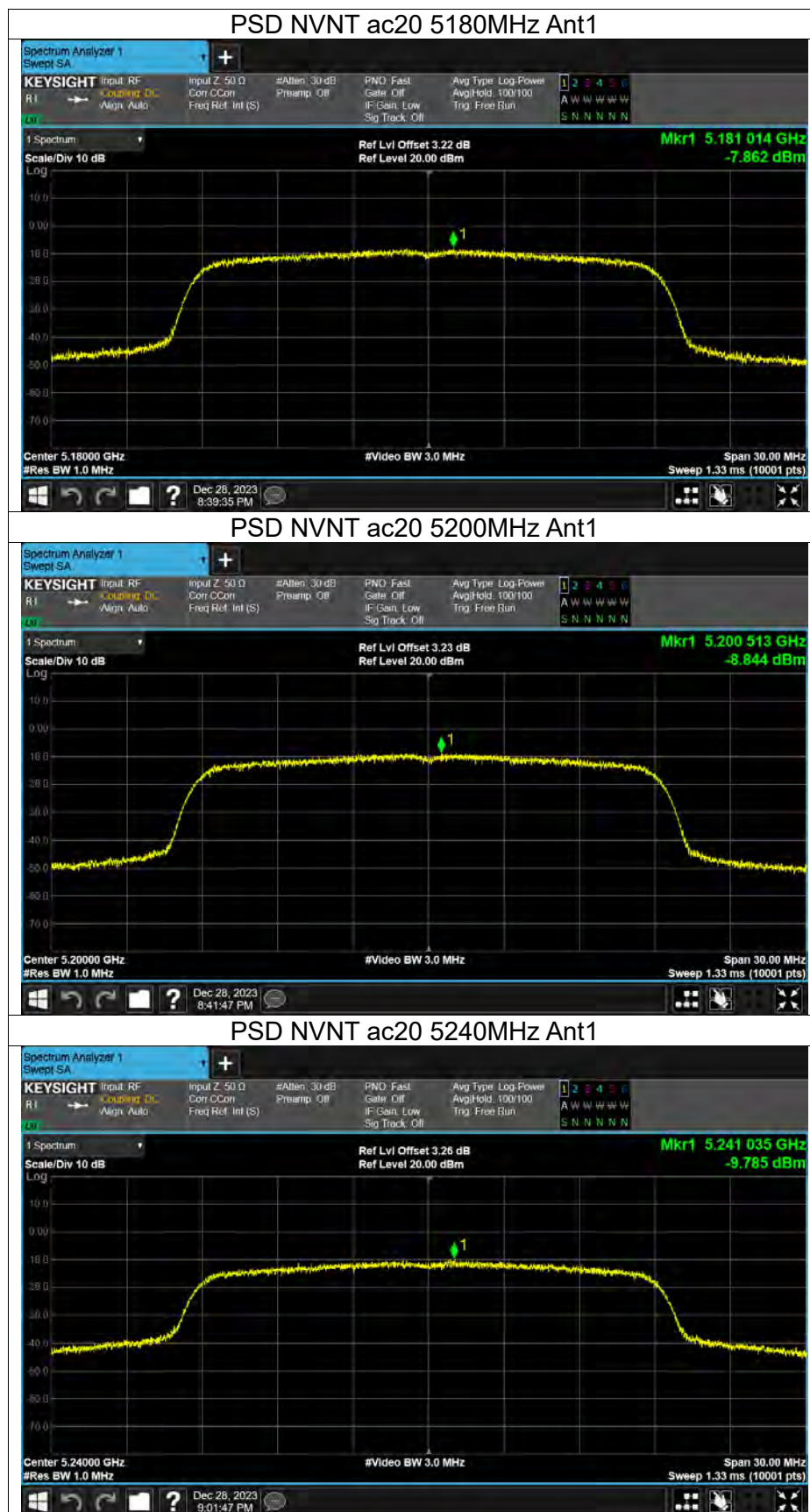


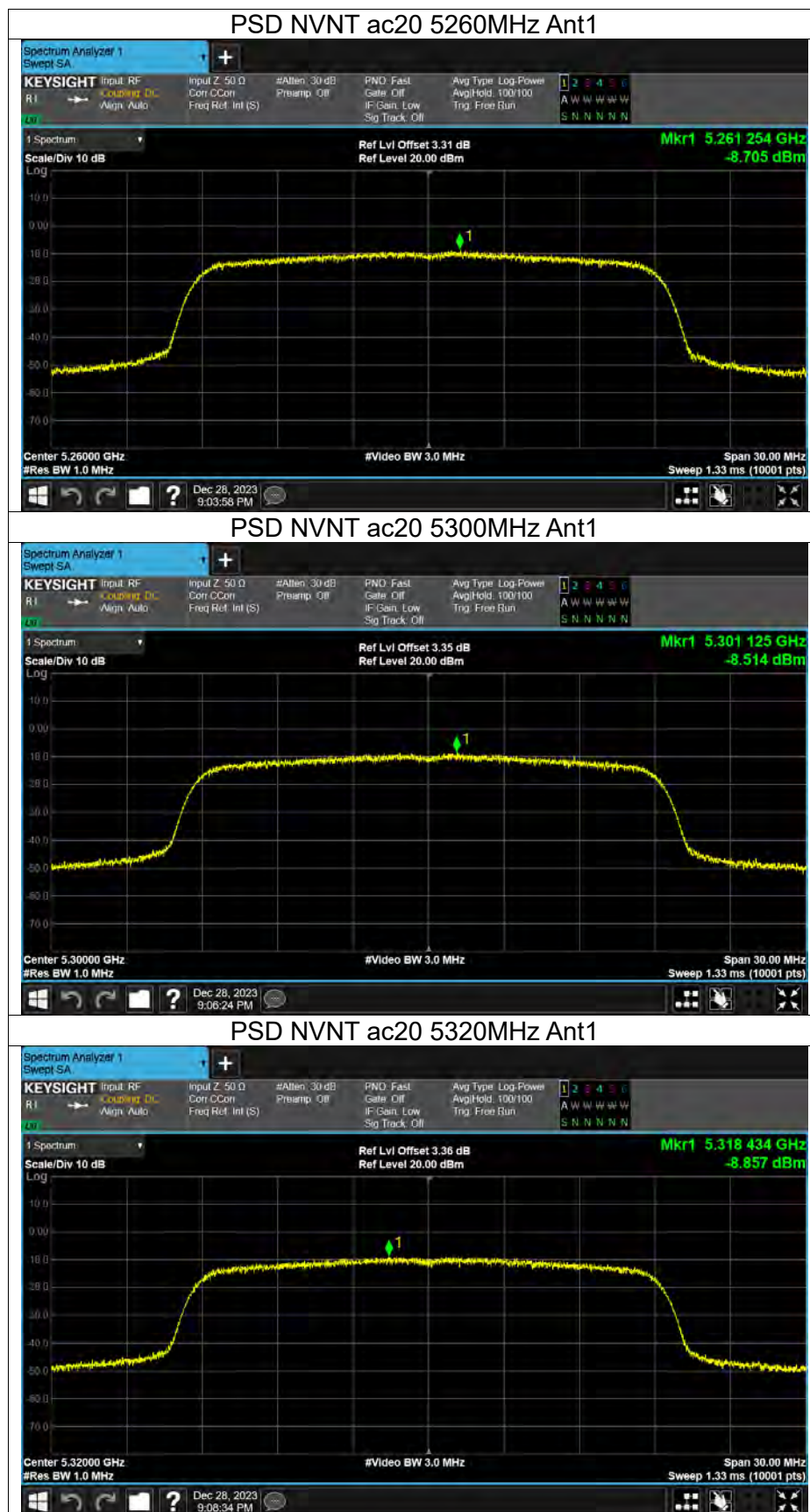


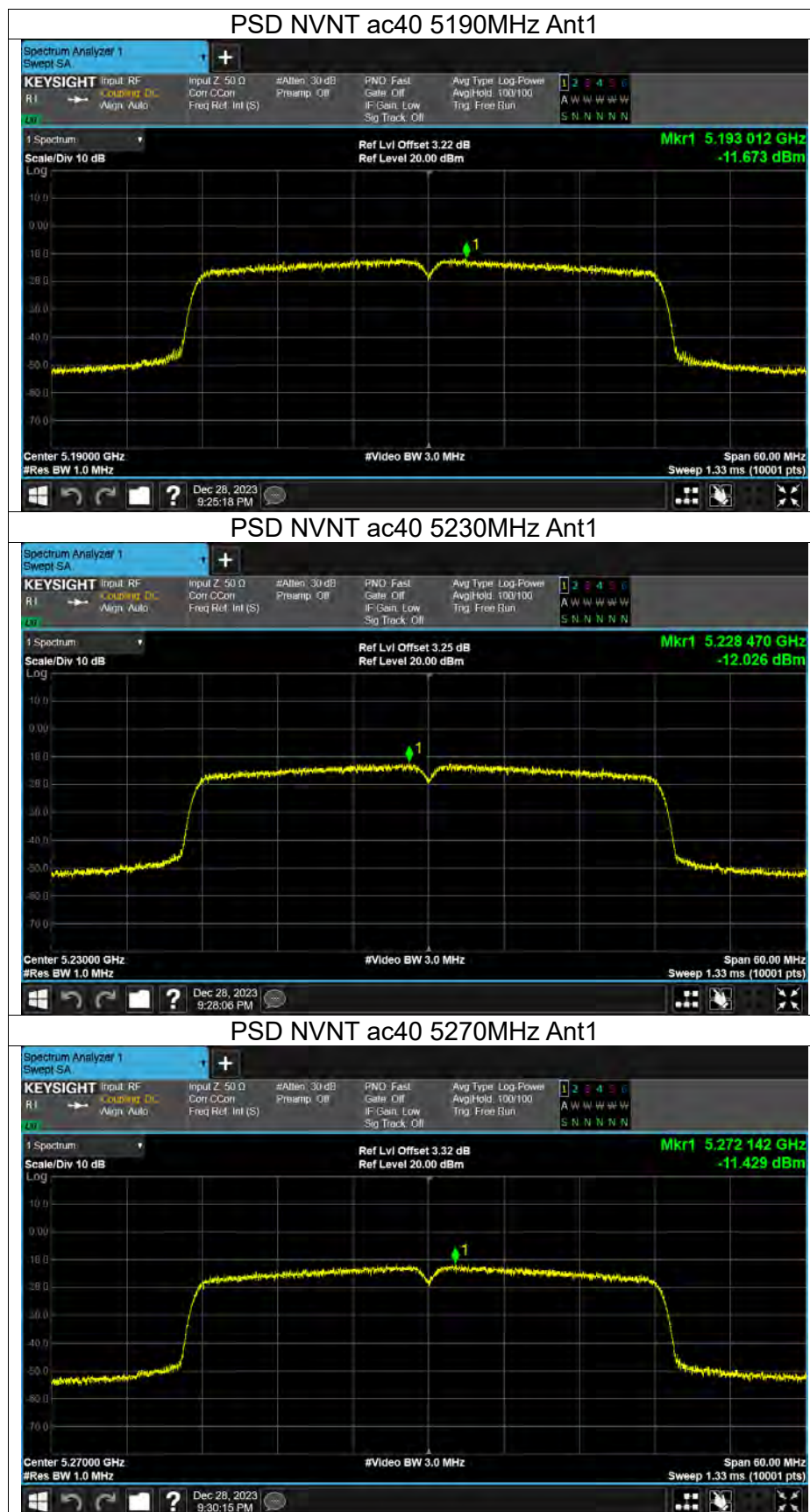








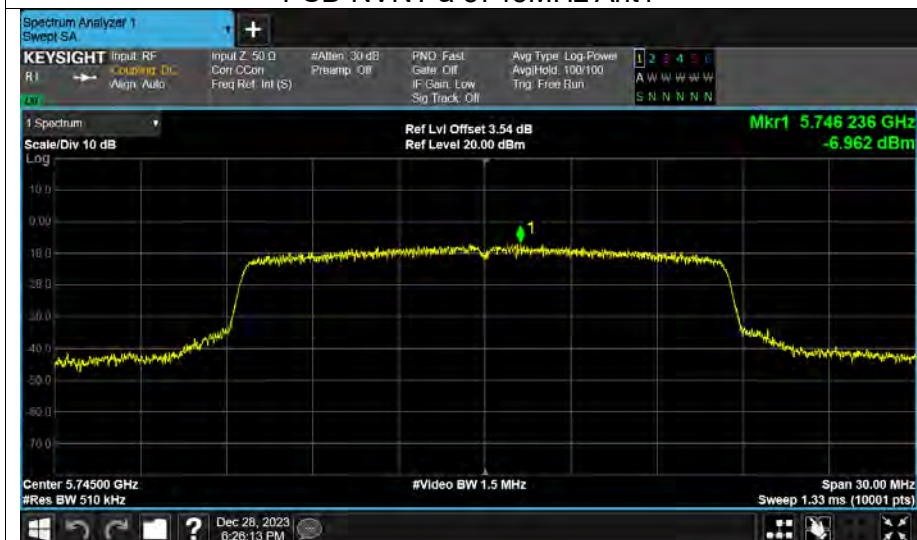








### PSD NVNT a 5745MHz Ant1

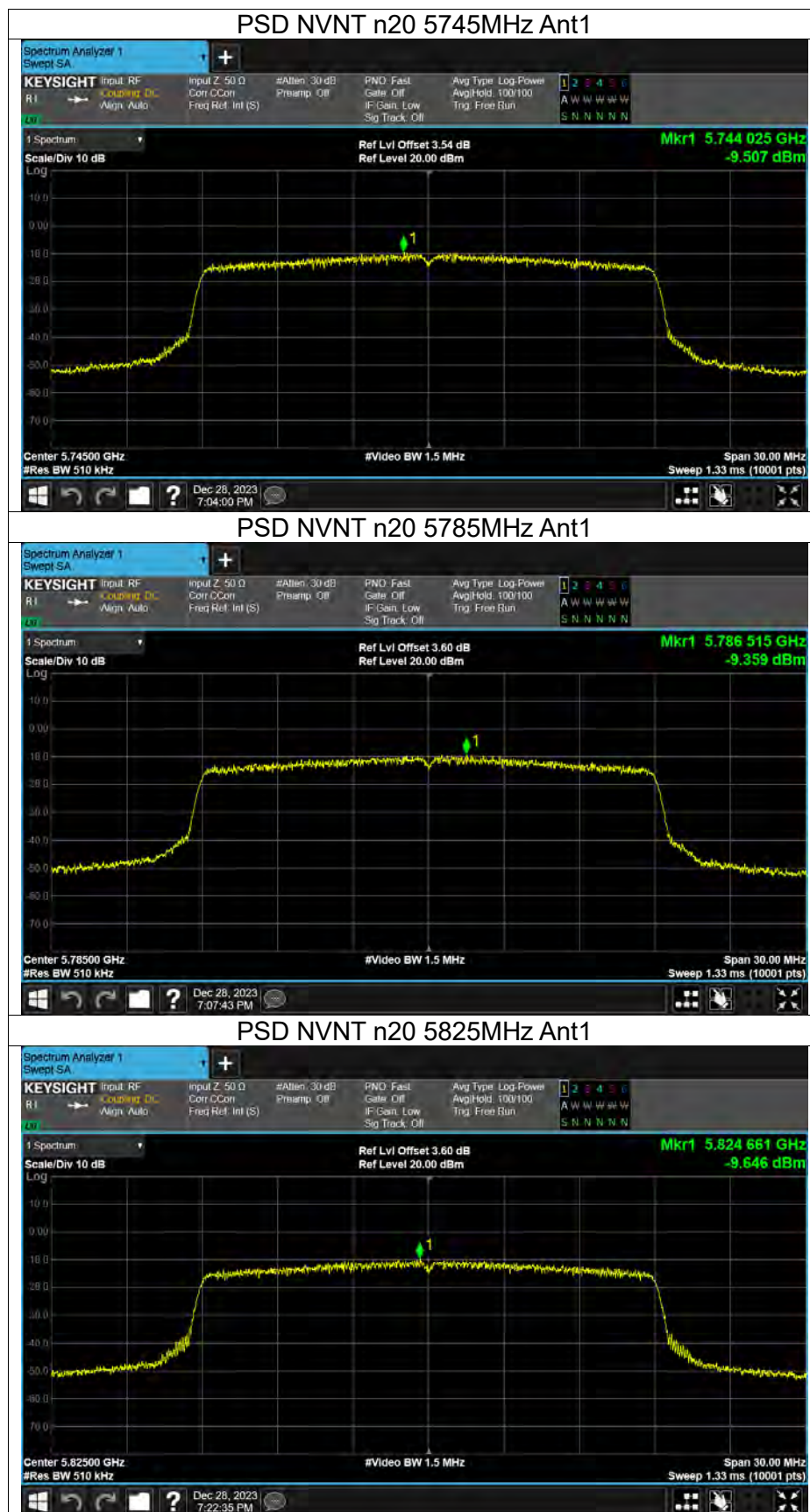


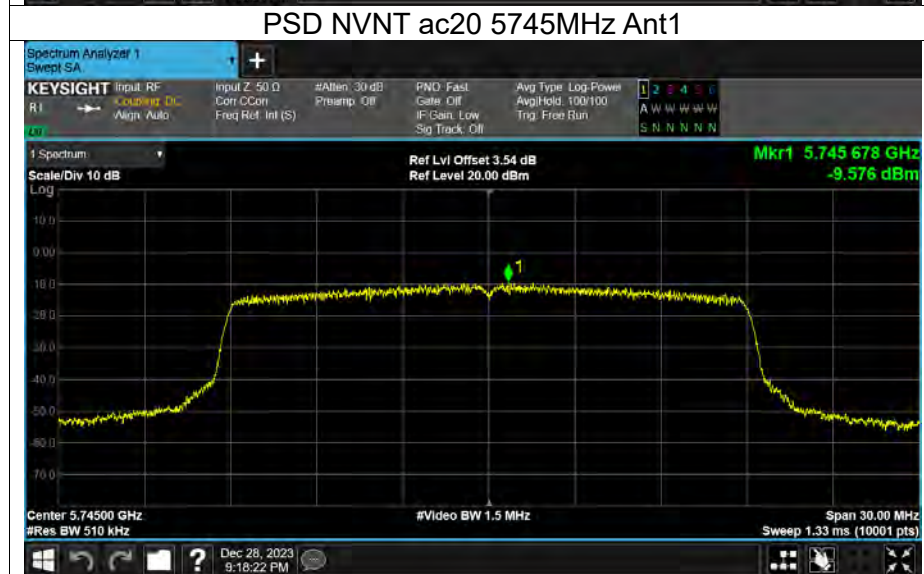
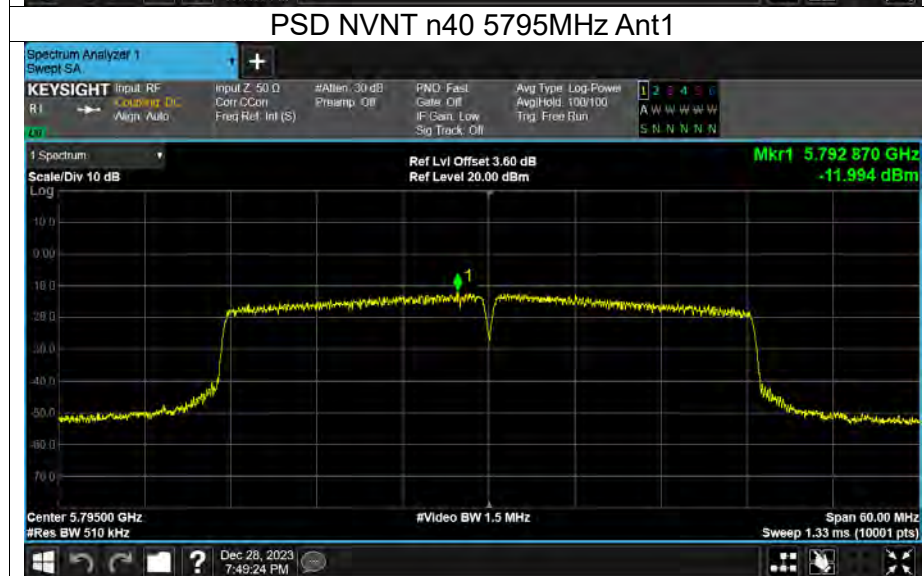
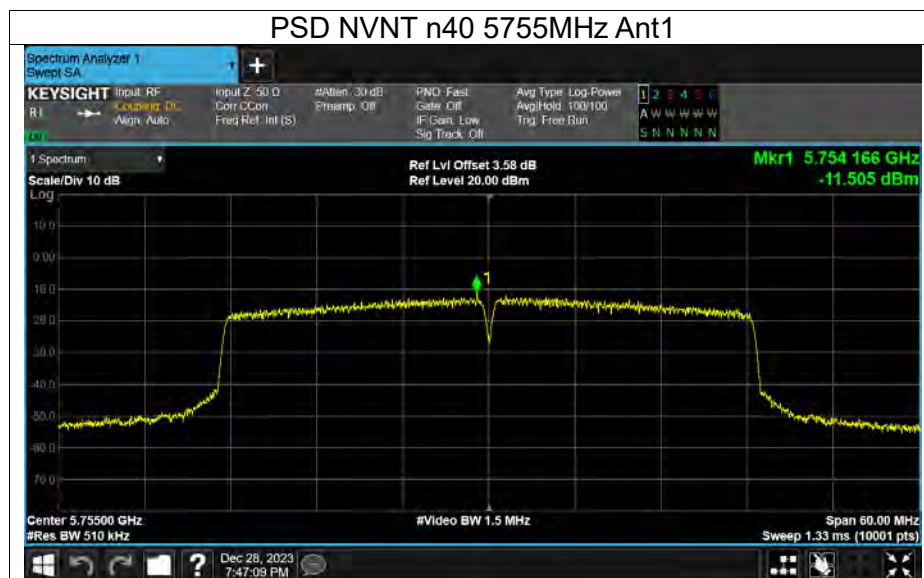
### PSD NVNT a 5785MHz Ant1

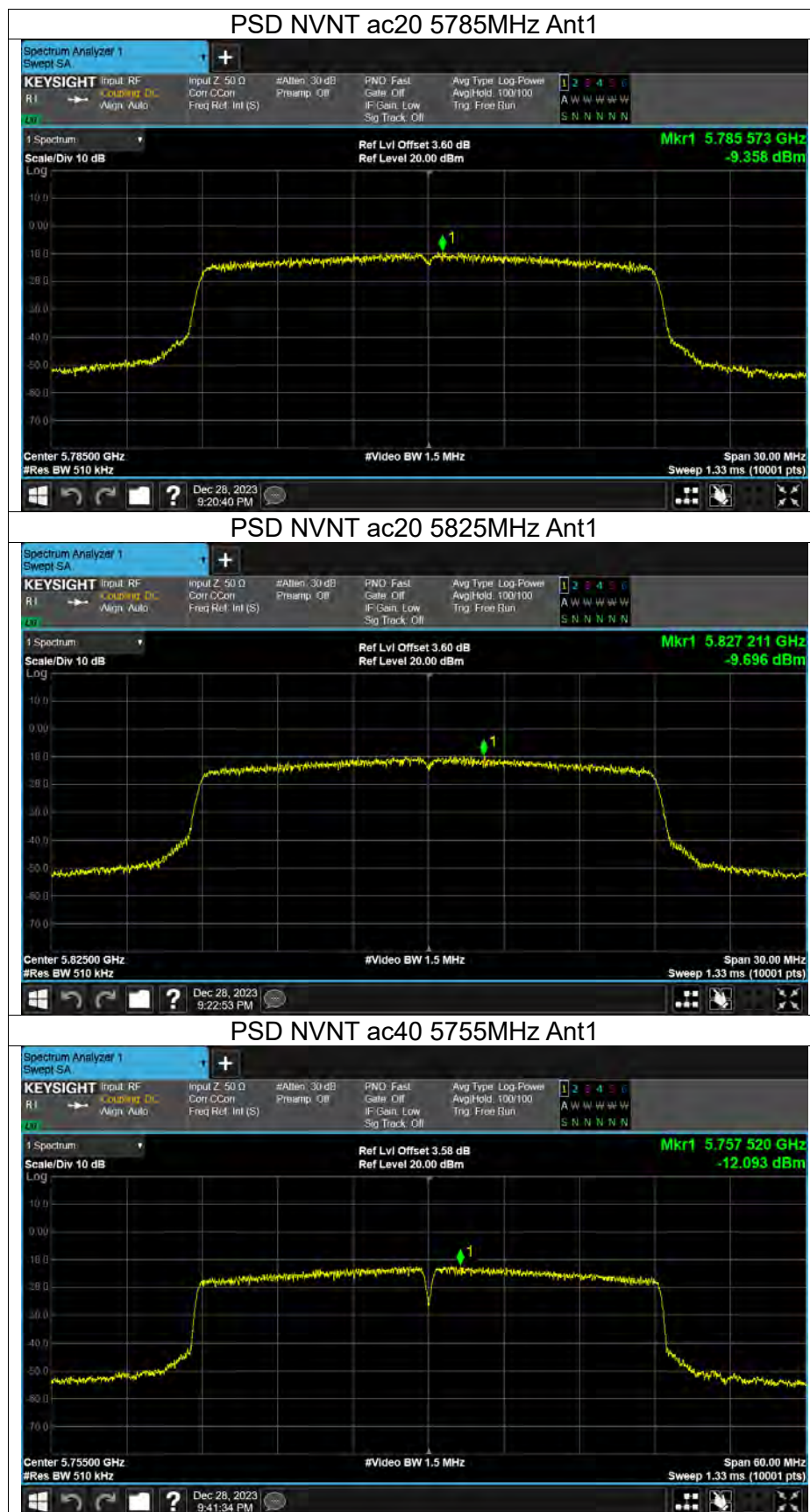


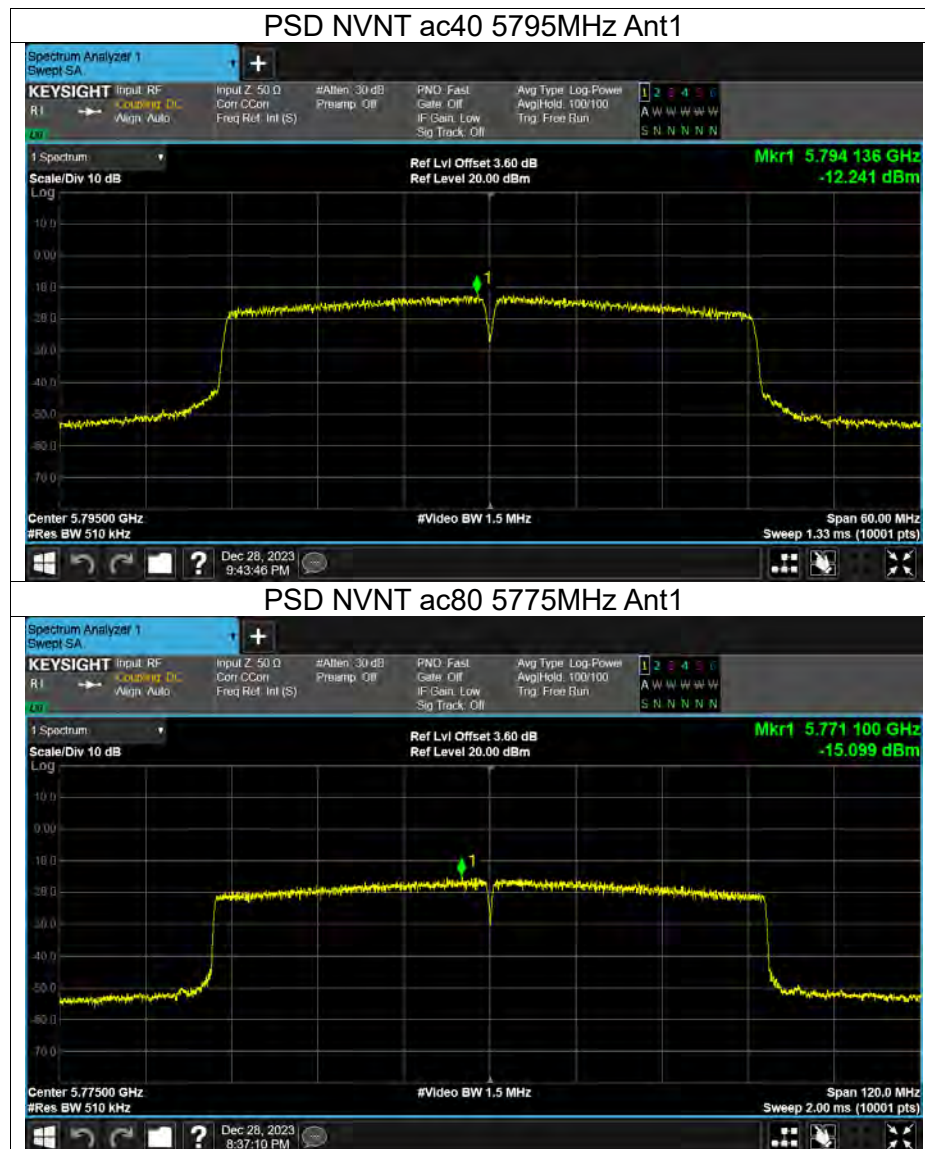
### PSD NVNT a 5825MHz Ant1













-6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | a    | 5745            | Ant1    | 16.342                | 0.5                         | Pass    |
| NVNT      | a    | 5785            | Ant1    | 16.328                | 0.5                         | Pass    |
| NVNT      | a    | 5825            | Ant1    | 16.328                | 0.5                         | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 17.57                 | 0.5                         | Pass    |
| NVNT      | n20  | 5785            | Ant1    | 17.573                | 0.5                         | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 17.565                | 0.5                         | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 35.757                | 0.5                         | Pass    |
| NVNT      | n40  | 5795            | Ant1    | 36.042                | 0.5                         | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | 17.574                | 0.5                         | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | 17.584                | 0.5                         | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | 17.555                | 0.5                         | Pass    |
| NVNT      | ac40 | 5755            | Ant1    | 36.145                | 0.5                         | Pass    |
| NVNT      | ac40 | 5795            | Ant1    | 35.642                | 0.5                         | Pass    |
| NVNT      | ac80 | 5775            | Ant1    | 76.293                | 0.5                         | Pass    |

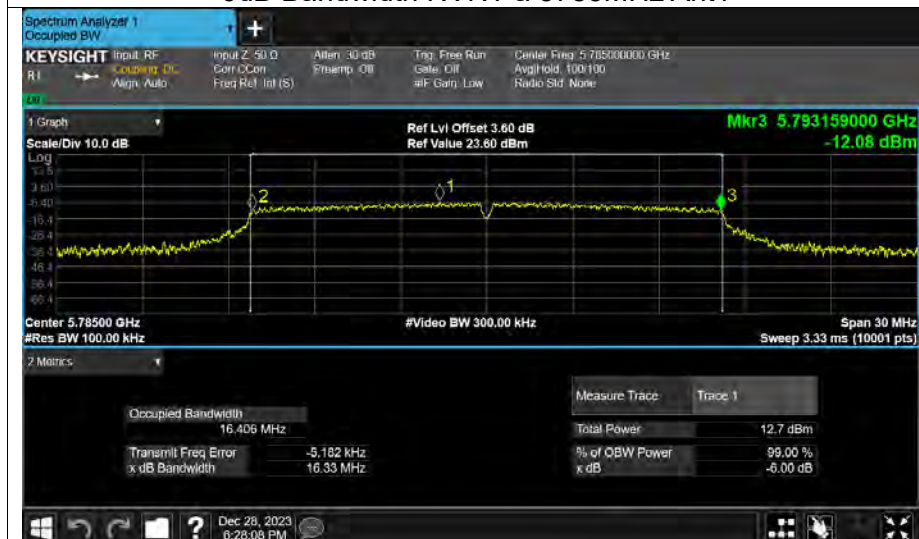


## Test Graphs

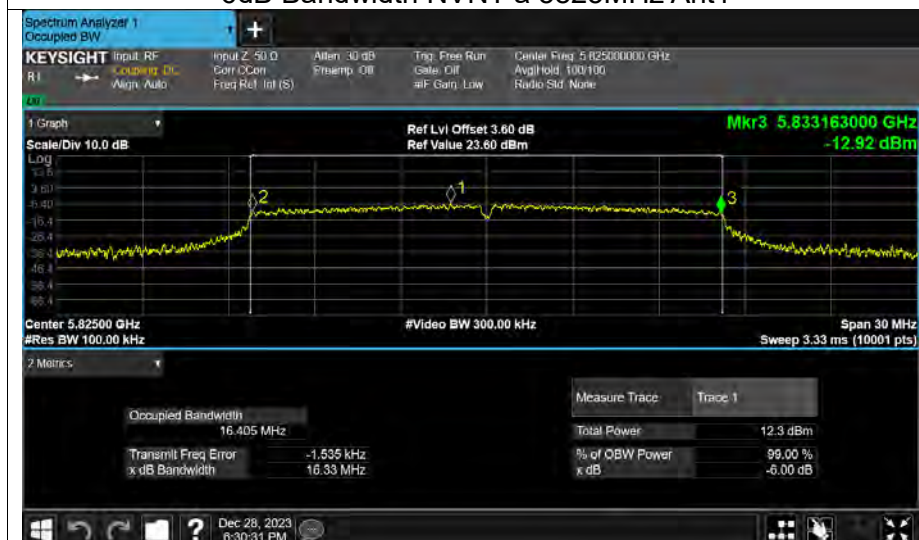
### -6dB Bandwidth NVNT a 5745MHz Ant1

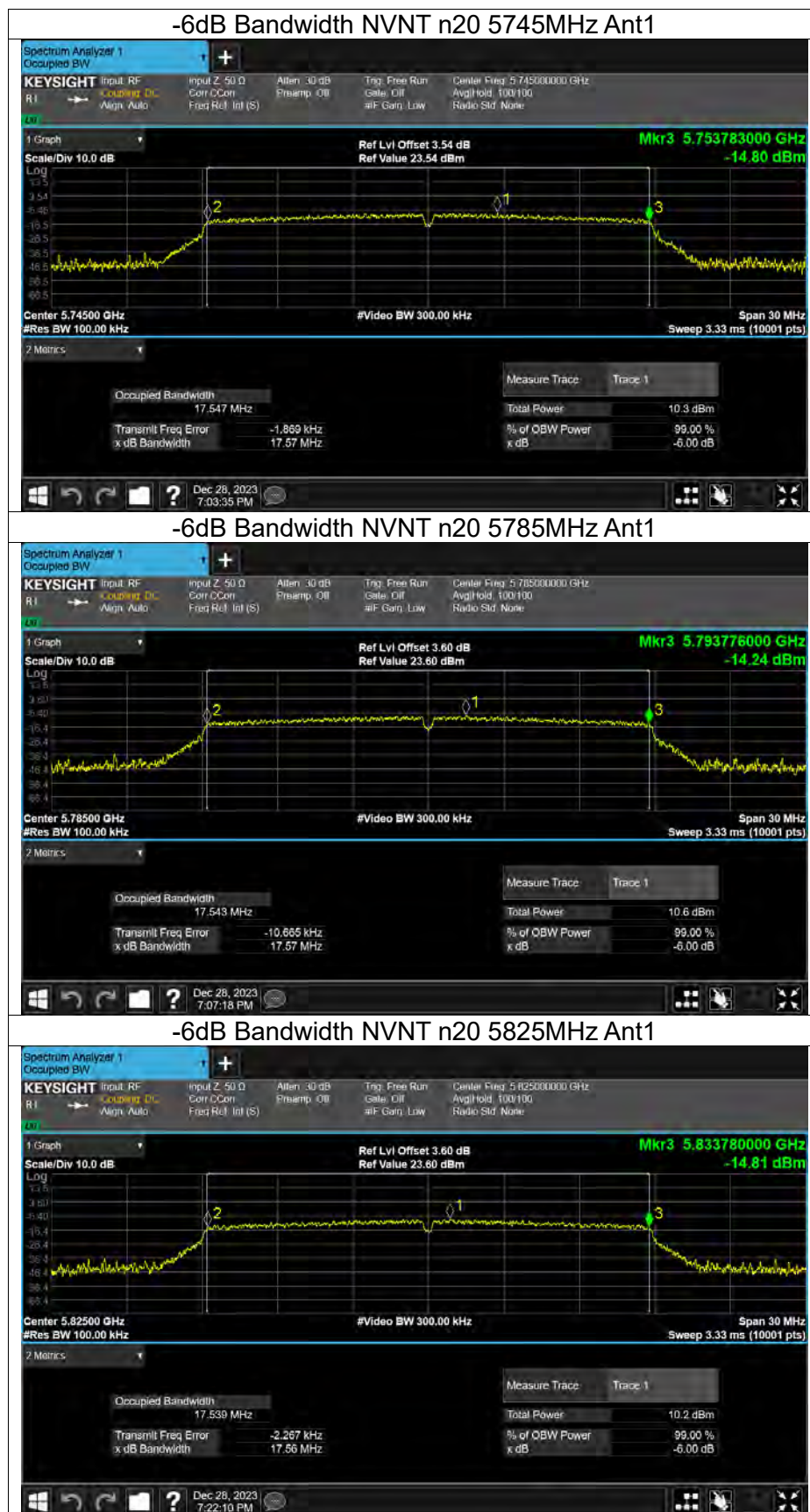


### -6dB Bandwidth NVNT a 5785MHz Ant1



### -6dB Bandwidth NVNT a 5825MHz Ant1







### -6dB Bandwidth NVNT n40 5755MHz Ant1



### -6dB Bandwidth NVNT n40 5795MHz Ant1



### -6dB Bandwidth NVNT ac20 5745MHz Ant1





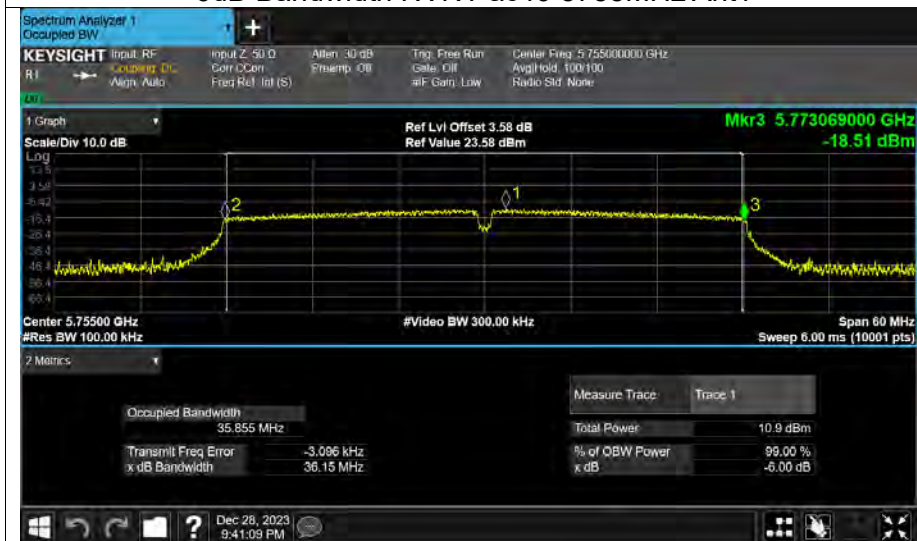
### -6dB Bandwidth NVNT ac20 5785MHz Ant1

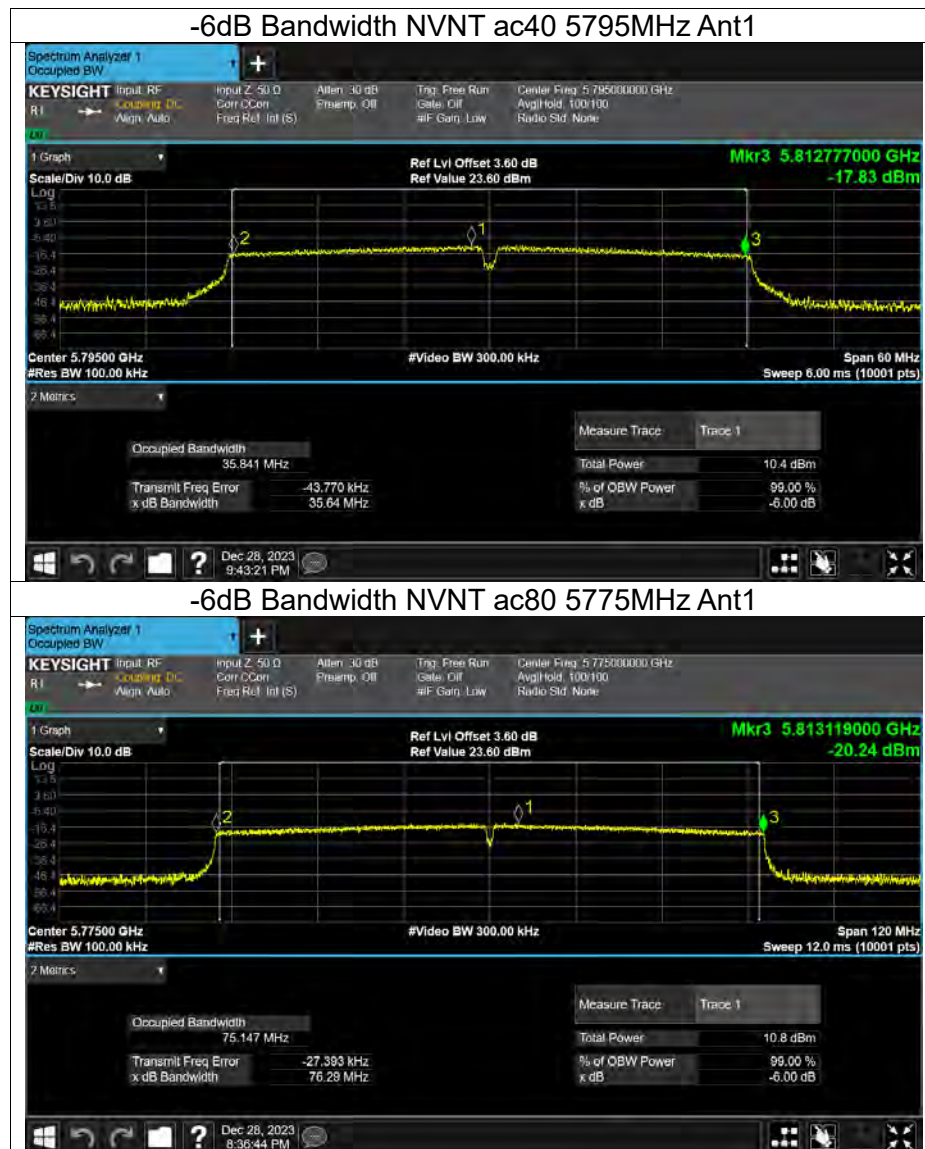


### -6dB Bandwidth NVNT ac20 5825MHz Ant1



### -6dB Bandwidth NVNT ac40 5755MHz Ant1





\*\*\*\*\*END OF THE REPORT\*\*\*\*\*