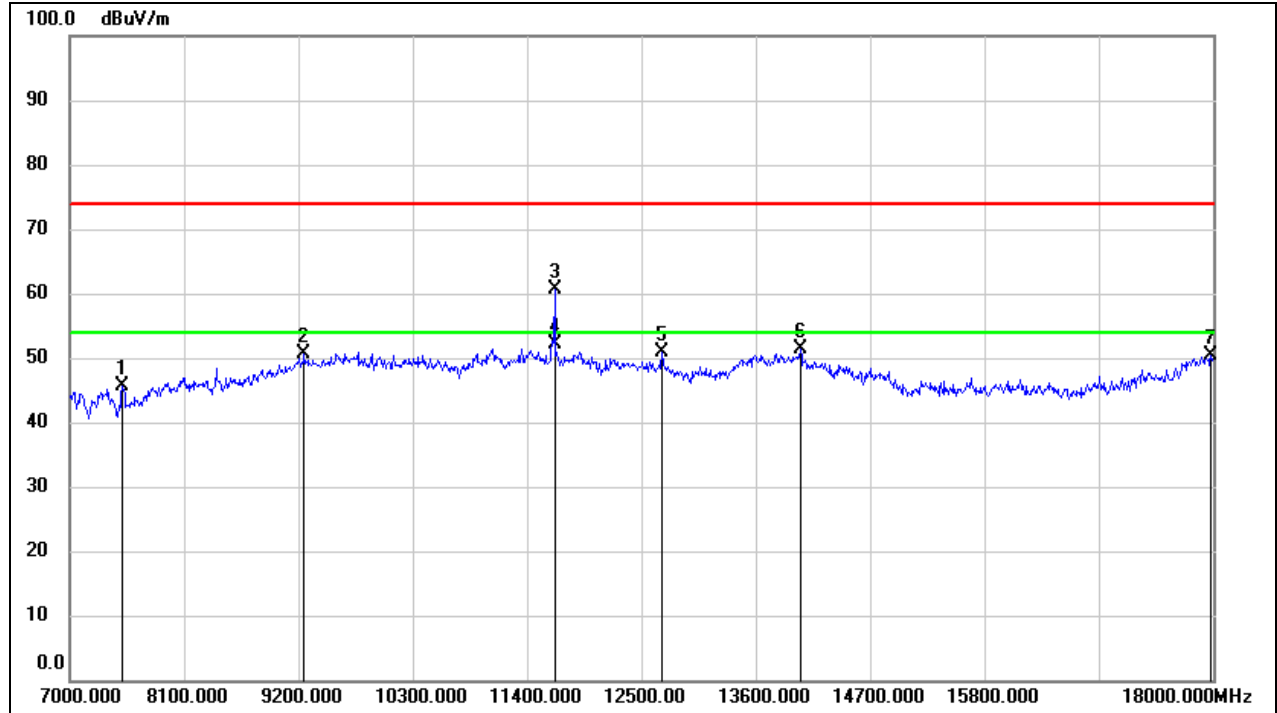
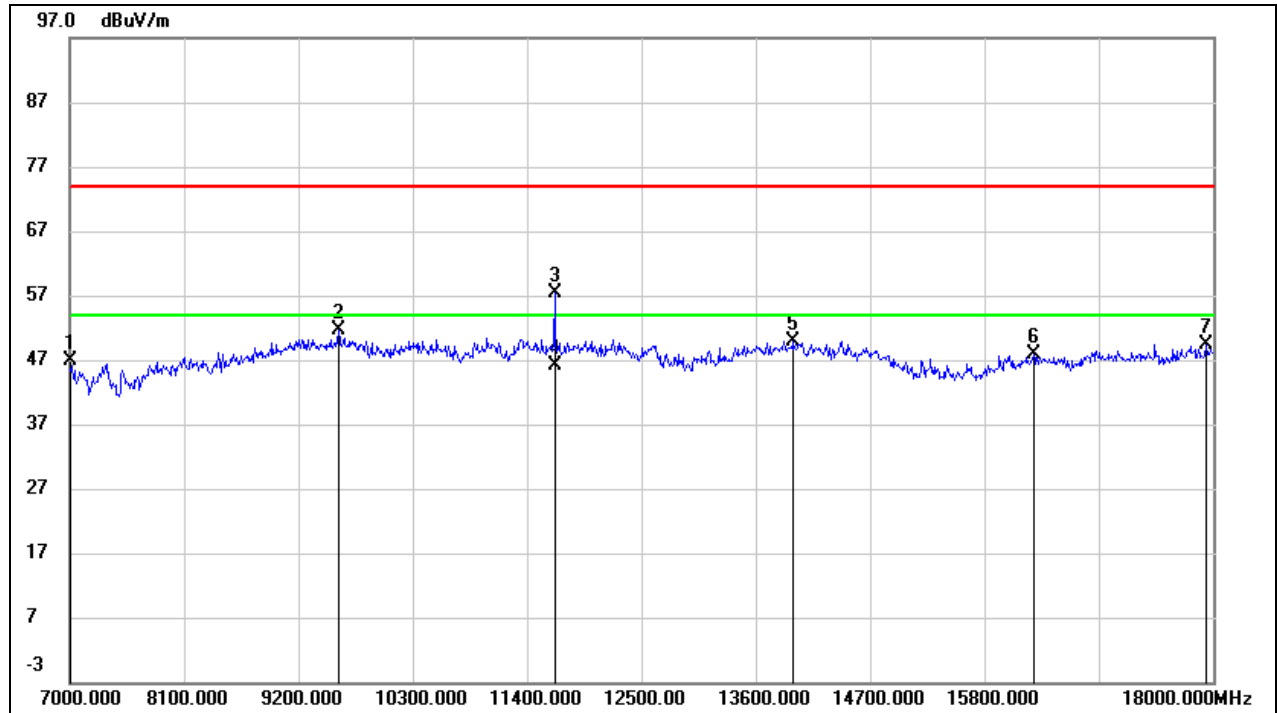


|            |                              |                 |       |
|------------|------------------------------|-----------------|-------|
| Test Mode: | 802.11ax HE20<br>Tone52 RU40 | Frequency(MHz): | 5825  |
| Polarity:  | Horizontal                   | Test Voltage:   | DC 5V |



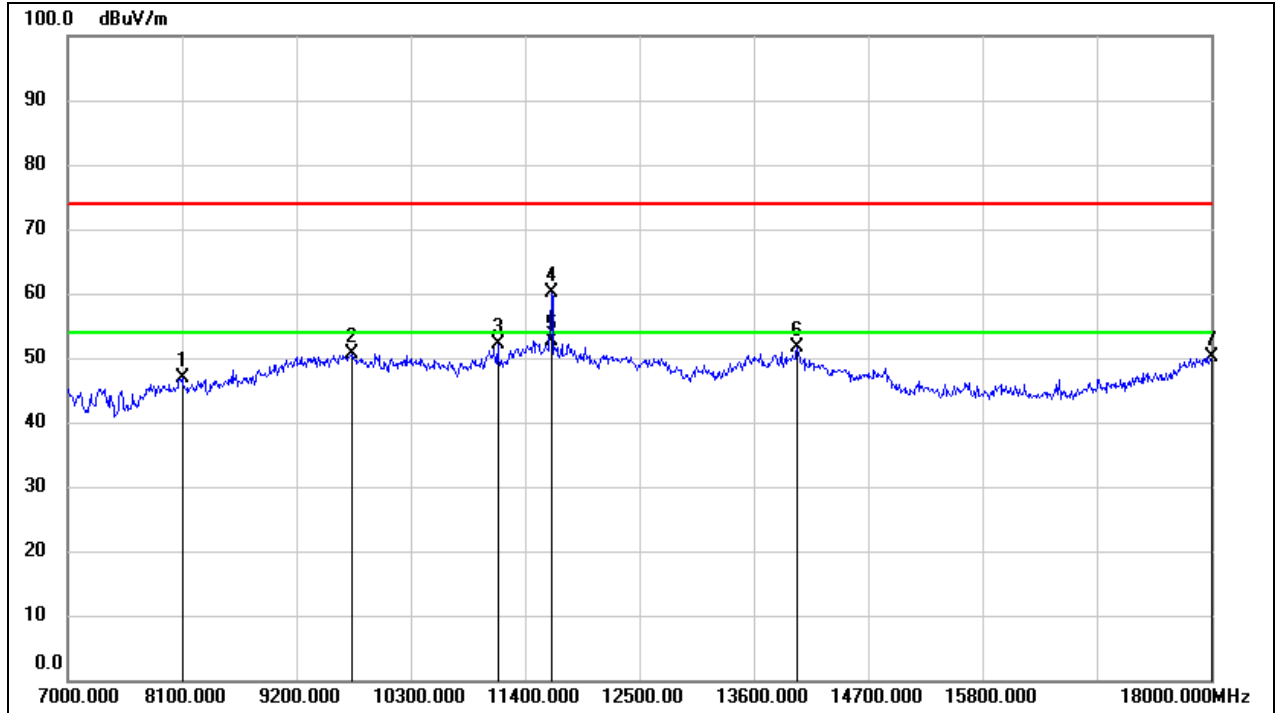
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 7506.000           | 37.70             | 7.84              | 45.54              | 74.00             | -28.46         | peak   |
| 2   | 9255.000           | 38.79             | 11.74             | 50.53              | 74.00             | -23.47         | peak   |
| 3   | 11664.000          | 42.68             | 18.05             | 60.73              | 74.00             | -13.27         | peak   |
| 4   | 11664.000          | 34.08             | 18.05             | 52.13              | 54.00             | -1.87          | AVG    |
| 5   | 12698.000          | 31.39             | 19.56             | 50.95              | 74.00             | -23.05         | peak   |
| 6   | 14029.000          | 27.87             | 23.49             | 51.36              | 74.00             | -22.64         | peak   |
| 7   | 17978.000          | 21.02             | 29.38             | 50.40              | 74.00             | -23.60         | peak   |

|            |                              |                 |       |
|------------|------------------------------|-----------------|-------|
| Test Mode: | 802.11ax HE20<br>Tone52 RU40 | Frequency(MHz): | 5825  |
| Polarity:  | Vertical                     | Test Voltage:   | DC 5V |



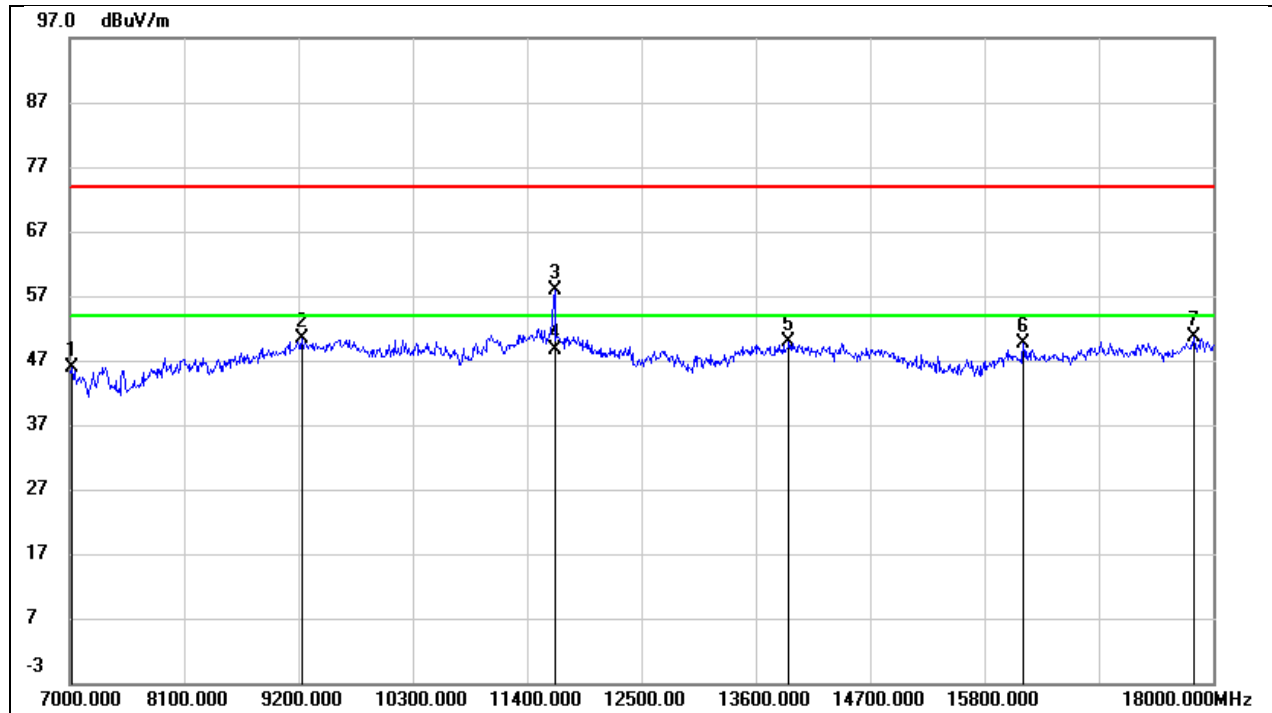
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 7000.000           | 38.80             | 8.02              | 46.82              | 74.00             | -27.18         | peak   |
| 2   | 9585.000           | 38.38             | 13.26             | 51.64              | 74.00             | -22.36         | peak   |
| 3   | 11664.000          | 40.81             | 16.68             | 57.49              | 74.00             | -16.51         | peak   |
| 4   | 11664.000          | 29.51             | 16.68             | 46.19              | 54.00             | -7.81          | AVG    |
| 5   | 13963.000          | 28.08             | 21.85             | 49.93              | 74.00             | -24.07         | peak   |
| 6   | 16273.000          | 23.96             | 23.95             | 47.91              | 74.00             | -26.09         | peak   |
| 7   | 17934.000          | 22.50             | 27.00             | 49.50              | 74.00             | -24.50         | peak   |

|            |                               |                 |       |
|------------|-------------------------------|-----------------|-------|
| Test Mode: | 802.11ax HE20<br>Tone106 RU54 | Frequency(MHz): | 5825  |
| Polarity:  | Horizontal                    | Test Voltage:   | DC 5V |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 8100.000           | 38.74             | 8.21              | 46.95              | 74.00             | -27.05         | peak   |
| 2   | 9728.000           | 36.91             | 13.68             | 50.59              | 74.00             | -23.41         | peak   |
| 3   | 11136.000          | 36.25             | 15.81             | 52.06              | 74.00             | -21.94         | peak   |
| 4   | 11653.000          | 41.99             | 18.06             | 60.05              | 74.00             | -13.95         | peak   |
| 5   | 11653.000          | 34.53             | 18.06             | 52.59              | 54.00             | -1.41          | AVG    |
| 6   | 14018.000          | 28.10             | 23.54             | 51.64              | 74.00             | -22.36         | peak   |
| 7   | 18000.000          | 20.63             | 29.61             | 50.24              | 74.00             | -23.76         | peak   |

|            |                               |                 |       |
|------------|-------------------------------|-----------------|-------|
| Test Mode: | 802.11ax HE20<br>Tone106 RU54 | Frequency(MHz): | 5825  |
| Polarity:  | Vertical                      | Test Voltage:   | DC 5V |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7022.000        | 37.92          | 8.04           | 45.96           | 74.00          | -28.04      | peak   |
| 2   | 9233.000        | 38.60          | 11.88          | 50.48           | 74.00          | -23.52      | peak   |
| 3   | 11664.000       | 41.30          | 16.68          | 57.98           | 74.00          | -16.02      | peak   |
| 4   | 11664.000       | 31.97          | 16.68          | 48.65           | 54.00          | -5.35       | AVG    |
| 5   | 13919.000       | 28.31          | 21.66          | 49.97           | 74.00          | -24.03      | peak   |
| 6   | 16174.000       | 25.55          | 23.99          | 49.54           | 74.00          | -24.46      | peak   |
| 7   | 17813.000       | 24.50          | 26.24          | 50.74           | 74.00          | -23.26      | peak   |

## 9. AC POWER LINE CONDUCTED EMISSION

### LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

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

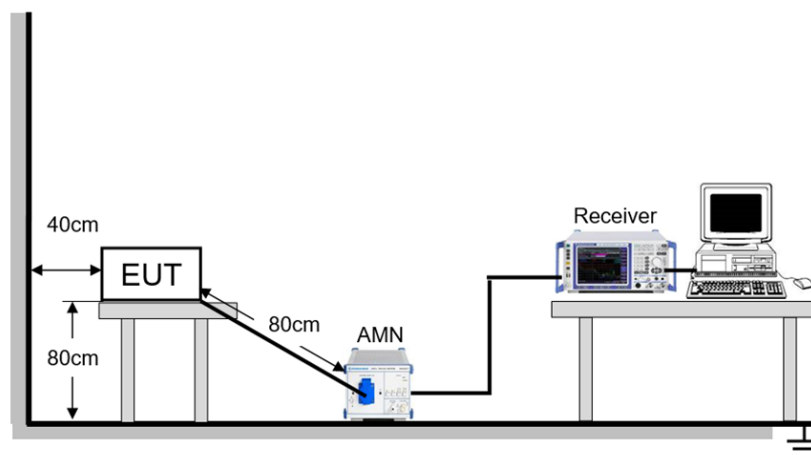
### TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

### TEST SETUP



**TEST ENVIRONMENT**

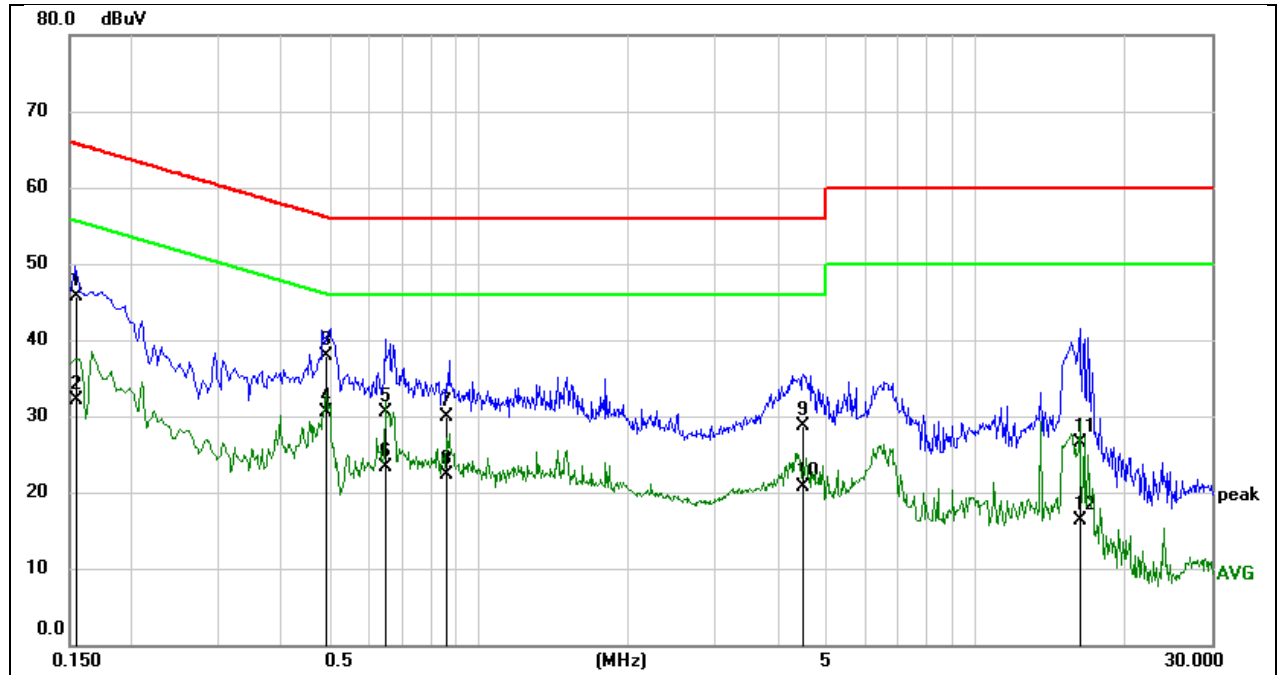
|                     |        |                   |              |
|---------------------|--------|-------------------|--------------|
| Temperature         | 22.5°C | Relative Humidity | 52.6%        |
| Atmosphere Pressure | 101kPa | Test Voltage      | AC 120V 60Hz |

**TEST DATE / ENGINEER**

|           |                   |         |             |
|-----------|-------------------|---------|-------------|
| Test Date | December 25, 2024 | Test By | Johnson Liu |
|-----------|-------------------|---------|-------------|

## TEST RESULTS

|            |         |                 |      |
|------------|---------|-----------------|------|
| Test Mode: | 802.11a | Frequency(MHz): | 5180 |
| Line:      | Line    |                 |      |



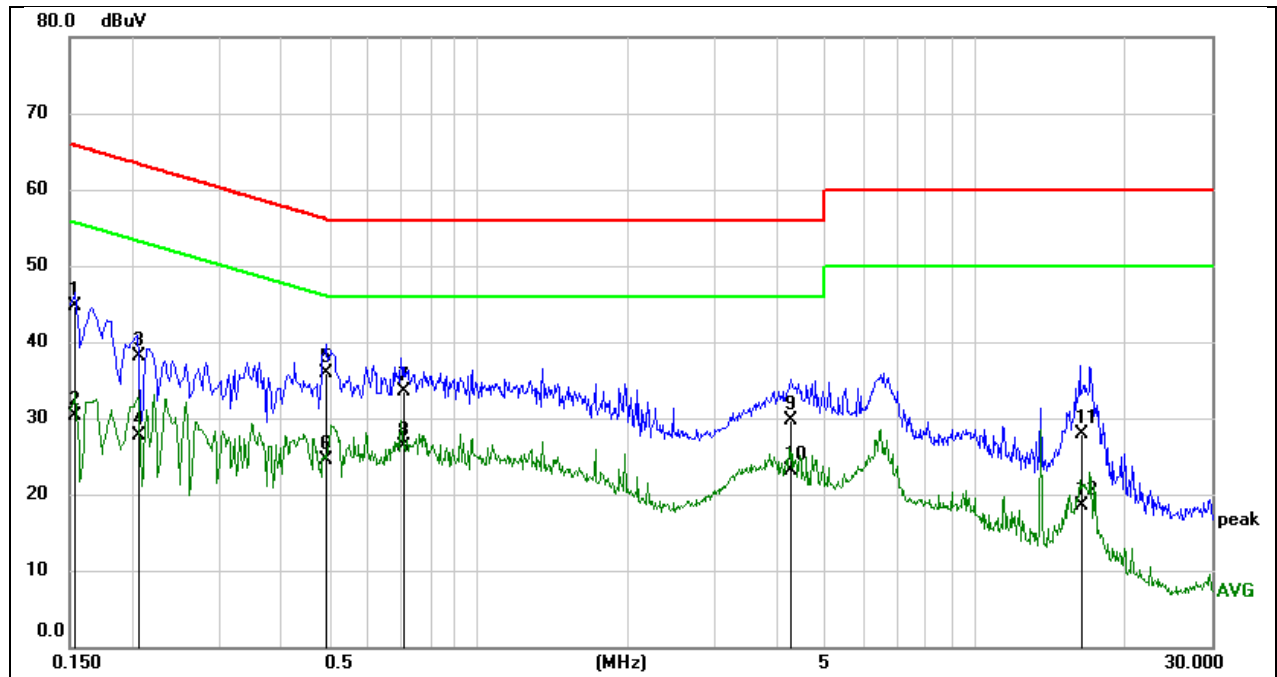
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------|---------------|--------------|-------------|--------|
| 1   | 0.1547          | 36.14          | 9.64         | 45.78         | 65.74        | -19.96      | QP     |
| 2   | 0.1547          | 22.46          | 9.64         | 32.10         | 55.74        | -23.64      | AVG    |
| 3   | 0.4919          | 28.21          | 9.64         | 37.85         | 56.14        | -18.29      | QP     |
| 4   | 0.4919          | 20.90          | 9.64         | 30.54         | 46.14        | -15.60      | AVG    |
| 5   | 0.6493          | 20.87          | 9.63         | 30.50         | 56.00        | -25.50      | QP     |
| 6   | 0.6493          | 13.68          | 9.63         | 23.31         | 46.00        | -22.69      | AVG    |
| 7   | 0.8658          | 20.31          | 9.63         | 29.94         | 56.00        | -26.06      | QP     |
| 8   | 0.8658          | 12.73          | 9.63         | 22.36         | 46.00        | -23.64      | AVG    |
| 9   | 4.4967          | 19.08          | 9.65         | 28.73         | 56.00        | -27.27      | QP     |
| 10  | 4.4967          | 11.04          | 9.65         | 20.69         | 46.00        | -25.31      | AVG    |
| 11  | 16.2526         | 16.76          | 9.74         | 26.50         | 60.00        | -33.50      | QP     |
| 12  | 16.2526         | 6.50           | 9.74         | 16.24         | 50.00        | -33.76      | AVG    |

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

|            |         |                 |      |
|------------|---------|-----------------|------|
| Test Mode: | 802.11a | Frequency(MHz): | 5180 |
| Line:      | Neutral |                 |      |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------|---------------|--------------|-------------|--------|
| 1   | 0.1526          | 35.05          | 9.64         | 44.69         | 65.86        | -21.17      | QP     |
| 2   | 0.1526          | 20.73          | 9.64         | 30.37         | 55.86        | -25.49      | AVG    |
| 3   | 0.2062          | 28.42          | 9.64         | 38.06         | 63.36        | -25.30      | QP     |
| 4   | 0.2062          | 18.14          | 9.64         | 27.78         | 53.36        | -25.58      | AVG    |
| 5   | 0.4944          | 26.17          | 9.64         | 35.81         | 56.09        | -20.28      | QP     |
| 6   | 0.4944          | 14.93          | 9.64         | 24.57         | 46.09        | -21.52      | AVG    |
| 7   | 0.7098          | 23.95          | 9.63         | 33.58         | 56.00        | -22.42      | QP     |
| 8   | 0.7098          | 16.59          | 9.63         | 26.22         | 46.00        | -19.78      | AVG    |
| 9   | 4.2743          | 20.00          | 9.64         | 29.64         | 56.00        | -26.36      | QP     |
| 10  | 4.2743          | 13.42          | 9.64         | 23.06         | 46.00        | -22.94      | AVG    |
| 11  | 16.3971         | 18.16          | 9.74         | 27.90         | 60.00        | -32.10      | QP     |
| 12  | 16.3971         | 8.72           | 9.74         | 18.46         | 50.00        | -31.54      | AVG    |

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

## 10. ANTENNA REQUIREMENT

### REQUIREMENT

Please refer to FCC part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC part 15.407(a)

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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.

### DESCRIPTION

Pass

## 11. TEST DATA

### 11.1. APPENDIX A: EMISSION BANDWIDTH

#### 11.1.1. Test Result-Single RU

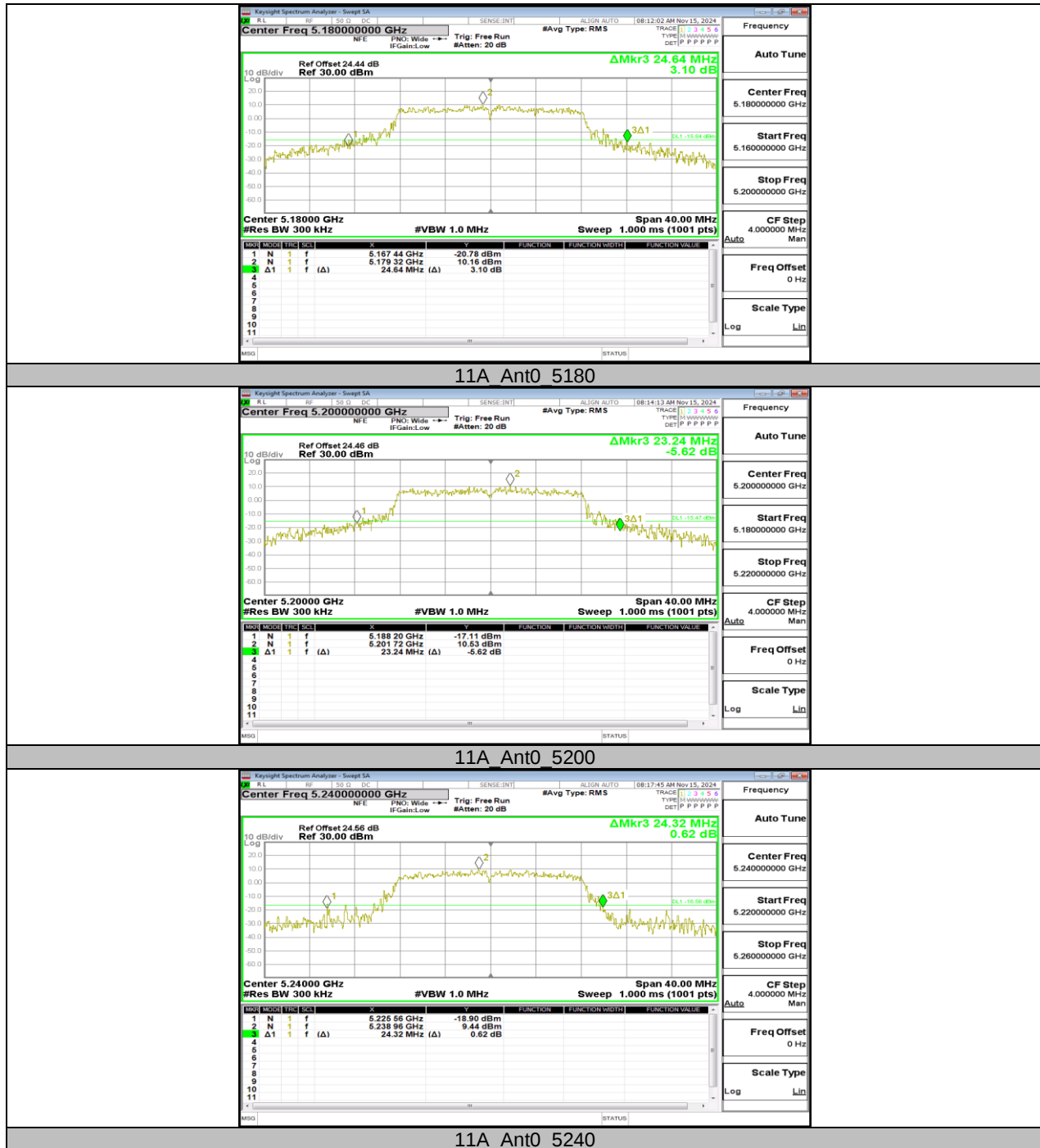
| Test Mode  | Antenna | Frequency[MHz] | 26db EBW [MHz] | FL[MHz]  | FH[MHz]  |
|------------|---------|----------------|----------------|----------|----------|
| 11A        | Ant0    | 5180           | 24.640         | 5167.440 | 5192.080 |
|            | Ant0    | 5200           | 23.240         | 5188.200 | 5211.440 |
|            | Ant0    | 5240           | 24.320         | 5225.560 | 5249.880 |
|            | Ant0    | 5260           | 24.080         | 5248.800 | 5272.880 |
|            | Ant0    | 5280           | 25.280         | 5266.200 | 5291.480 |
|            | Ant0    | 5320           | 22.600         | 5309.080 | 5331.680 |
|            | Ant0    | 5500           | 24.960         | 5487.040 | 5512.000 |
|            | Ant0    | 5580           | 23.520         | 5568.080 | 5591.600 |
|            | Ant0    | 5700           | 23.680         | 5688.440 | 5712.120 |
|            | Ant0    | 5720           | 23.640         | 5707.880 | 5731.520 |
|            | Ant1    | 5720           | 24.240         | 5707.400 | 5731.640 |
|            | Ant0    | 5720 UNII-2C   | 17.12          | 5707.880 | 5725     |
|            | Ant1    | 5720 UNII-2C   | 17.6           | 5707.400 | 5725     |
|            | Ant0    | 5720 UNII-3    | 6.52           | 5725     | 5731.520 |
|            | Ant1    | 5720 UNII-3    | 6.64           | 5725     | 5731.640 |
|            | Ant0    | 5745           | 24.880         | 5732.120 | 5757.000 |
|            | Ant0    | 5785           | 22.560         | 5773.400 | 5795.960 |
|            | Ant0    | 5825           | 23.160         | 5813.280 | 5836.440 |
| 11N20MIMO  | Ant0    | 5180           | 26.040         | 5166.400 | 5192.440 |
|            | Ant0    | 5200           | 25.960         | 5188.120 | 5214.080 |
|            | Ant0    | 5240           | 20.520         | 5229.800 | 5250.320 |
|            | Ant0    | 5260           | 27.800         | 5245.840 | 5273.640 |
|            | Ant0    | 5280           | 25.040         | 5267.760 | 5292.800 |
|            | Ant0    | 5320           | 25.280         | 5307.360 | 5332.640 |
|            | Ant0    | 5500           | 24.440         | 5487.960 | 5512.400 |
|            | Ant0    | 5580           | 25.360         | 5567.440 | 5592.800 |
|            | Ant0    | 5700           | 25.600         | 5687.240 | 5712.840 |
|            | Ant0    | 5720           | 25.760         | 5707.160 | 5732.920 |
|            | Ant1    | 5720           | 26.480         | 5706.880 | 5733.360 |
|            | Ant0    | 5720 UNII-2C   | 17.84          | 5707.160 | 5725     |
|            | Ant1    | 5720 UNII-2C   | 18.12          | 5706.880 | 5725     |
|            | Ant0    | 5720 UNII-3    | 7.92           | 5725     | 5732.920 |
|            | Ant1    | 5720 UNII-3    | 8.36           | 5725     | 5733.360 |
|            | Ant0    | 5745           | 25.040         | 5732.600 | 5757.640 |
|            | Ant0    | 5785           | 24.560         | 5772.600 | 5797.160 |
|            | Ant0    | 5825           | 27.080         | 5812.360 | 5839.440 |
| 11N40MIMO  | Ant0    | 5190           | 39.520         | 5170.320 | 5209.840 |
|            | Ant0    | 5230           | 39.680         | 5210.320 | 5250.000 |
|            | Ant0    | 5270           | 39.440         | 5250.320 | 5289.760 |
|            | Ant0    | 5310           | 39.920         | 5290.400 | 5330.320 |
|            | Ant0    | 5510           | 39.840         | 5490.400 | 5530.240 |
|            | Ant0    | 5550           | 39.280         | 5530.720 | 5570.000 |
|            | Ant0    | 5670           | 39.440         | 5650.560 | 5690.000 |
|            | Ant0    | 5710           | 40.000         | 5689.920 | 5729.920 |
|            | Ant0    | 5710 UNII-2C   | 35.08          | 5689.920 | 5725     |
|            | Ant1    | 5710 UNII-2C   | 34.12          | 5690.880 | 5725     |
|            | Ant0    | 5710 UNII-3    | 4.92           | 5725     | 5729.920 |
|            | Ant1    | 5710 UNII-3    | 4.2            | 5725     | 5729.200 |
|            | Ant0    | 5755           | 38.480         | 5735.560 | 5774.040 |
|            | Ant0    | 5795           | 39.280         | 5775.560 | 5814.840 |
| 11AC80MIMO | Ant0    | 5210           | 78.880         | 5170.960 | 5249.840 |
|            | Ant0    | 5290           | 77.600         | 5250.960 | 5328.560 |

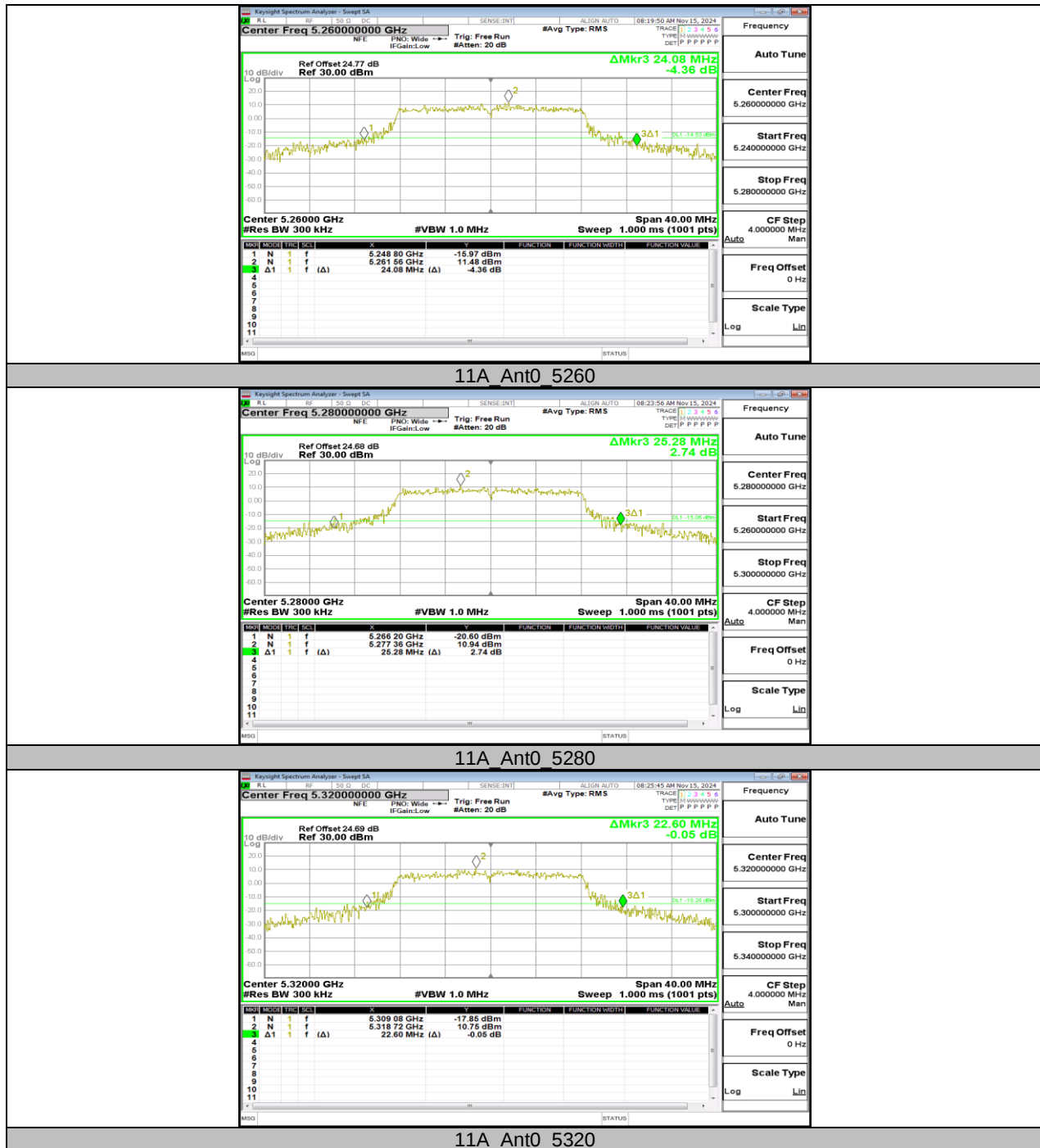
|            |      |              |        |          |          |
|------------|------|--------------|--------|----------|----------|
|            | Ant0 | 5530         | 77.760 | 5491.120 | 5568.880 |
|            | Ant0 | 5610         | 78.400 | 5570.960 | 5649.360 |
|            | Ant0 | 5690         | 78.080 | 5651.120 | 5729.200 |
|            | Ant1 | 5690         | 77.920 | 5650.800 | 5728.720 |
|            | Ant0 | 5690 UNII-2C | 73.88  | 5651.120 | 5725     |
|            | Ant1 | 5690 UNII-2C | 74.2   | 5650.800 | 5725     |
|            | Ant0 | 5690 UNII-3  | 4.2    | 5725     | 5729.200 |
|            | Ant1 | 5690 UNII-3  | 3.72   | 5725     | 5728.720 |
|            | Ant0 | 5775         | 78.880 | 5735.960 | 5814.840 |
| 11AX20MIMO | Ant0 | 5180         | 21.840 | 5169.040 | 5190.880 |
|            | Ant0 | 5200         | 20.800 | 5189.560 | 5210.360 |
|            | Ant0 | 5240         | 19.680 | 5230.200 | 5249.880 |
|            | Ant0 | 5260         | 20.960 | 5249.880 | 5270.840 |
|            | Ant0 | 5280         | 21.560 | 5269.320 | 5290.880 |
|            | Ant0 | 5320         | 20.680 | 5309.440 | 5330.120 |
|            | Ant0 | 5500         | 21.480 | 5489.360 | 5510.840 |
|            | Ant0 | 5580         | 20.720 | 5569.760 | 5590.480 |
|            | Ant0 | 5700         | 21.760 | 5689.080 | 5710.840 |
|            | Ant0 | 5720         | 21.240 | 5709.240 | 5730.480 |
|            | Ant1 | 5720         | 22.320 | 5708.640 | 5730.960 |
|            | Ant0 | 5720 UNII-2C | 15.76  | 5709.240 | 5725     |
|            | Ant1 | 5720 UNII-2C | 16.36  | 5708.640 | 5725     |
|            | Ant0 | 5720 UNII-3  | 5.48   | 5725     | 5730.480 |
|            | Ant1 | 5720 UNII-3  | 5.96   | 5725     | 5730.960 |
|            | Ant0 | 5745         | 21.960 | 5734.160 | 5756.120 |
|            | Ant0 | 5785         | 21.600 | 5774.440 | 5796.040 |
|            | Ant0 | 5825         | 21.000 | 5814.440 | 5835.440 |
| 11AX40MIMO | Ant0 | 5190         | 39.360 | 5170.400 | 5209.760 |
|            | Ant0 | 5230         | 39.280 | 5210.480 | 5249.760 |
|            | Ant0 | 5270         | 39.360 | 5250.480 | 5289.840 |
|            | Ant0 | 5310         | 39.440 | 5290.320 | 5329.760 |
|            | Ant0 | 5510         | 39.200 | 5490.480 | 5529.680 |
|            | Ant0 | 5550         | 39.280 | 5530.480 | 5569.760 |
|            | Ant0 | 5670         | 39.360 | 5650.480 | 5689.840 |
|            | Ant0 | 5710         | 39.600 | 5690.320 | 5729.920 |
|            | Ant1 | 5710         | 39.360 | 5690.560 | 5729.920 |
|            | Ant0 | 5710 UNII-2C | 34.68  | 5690.320 | 5725     |
|            | Ant1 | 5710 UNII-2C | 34.44  | 5690.560 | 5725     |
|            | Ant0 | 5710 UNII-3  | 4.92   | 5725     | 5729.920 |
|            | Ant1 | 5710 UNII-3  | 4.92   | 5725     | 5729.920 |
|            | Ant0 | 5755         | 39.120 | 5735.480 | 5774.600 |
|            | Ant0 | 5795         | 39.360 | 5775.560 | 5814.920 |
| 11AX80MIMO | Ant0 | 5210         | 80.160 | 5170.000 | 5250.160 |
|            | Ant0 | 5290         | 80.000 | 5250.320 | 5330.320 |
|            | Ant0 | 5530         | 79.520 | 5490.320 | 5569.840 |
|            | Ant0 | 5610         | 80.160 | 5570.160 | 5650.320 |
|            | Ant0 | 5690         | 80.000 | 5650.160 | 5730.160 |
|            | Ant1 | 5690         | 80.320 | 5650.000 | 5730.320 |
|            | Ant0 | 5690 UNII-2C | 74.84  | 5650.160 | 5725     |
|            | Ant1 | 5690 UNII-2C | 75     | 5650.000 | 5725     |
|            | Ant0 | 5690 UNII-3  | 5.16   | 5725     | 5730.160 |
|            | Ant1 | 5690 UNII-3  | 5.32   | 5725     | 5730.320 |
|            | Ant0 | 5775         | 80.480 | 5734.680 | 5815.160 |

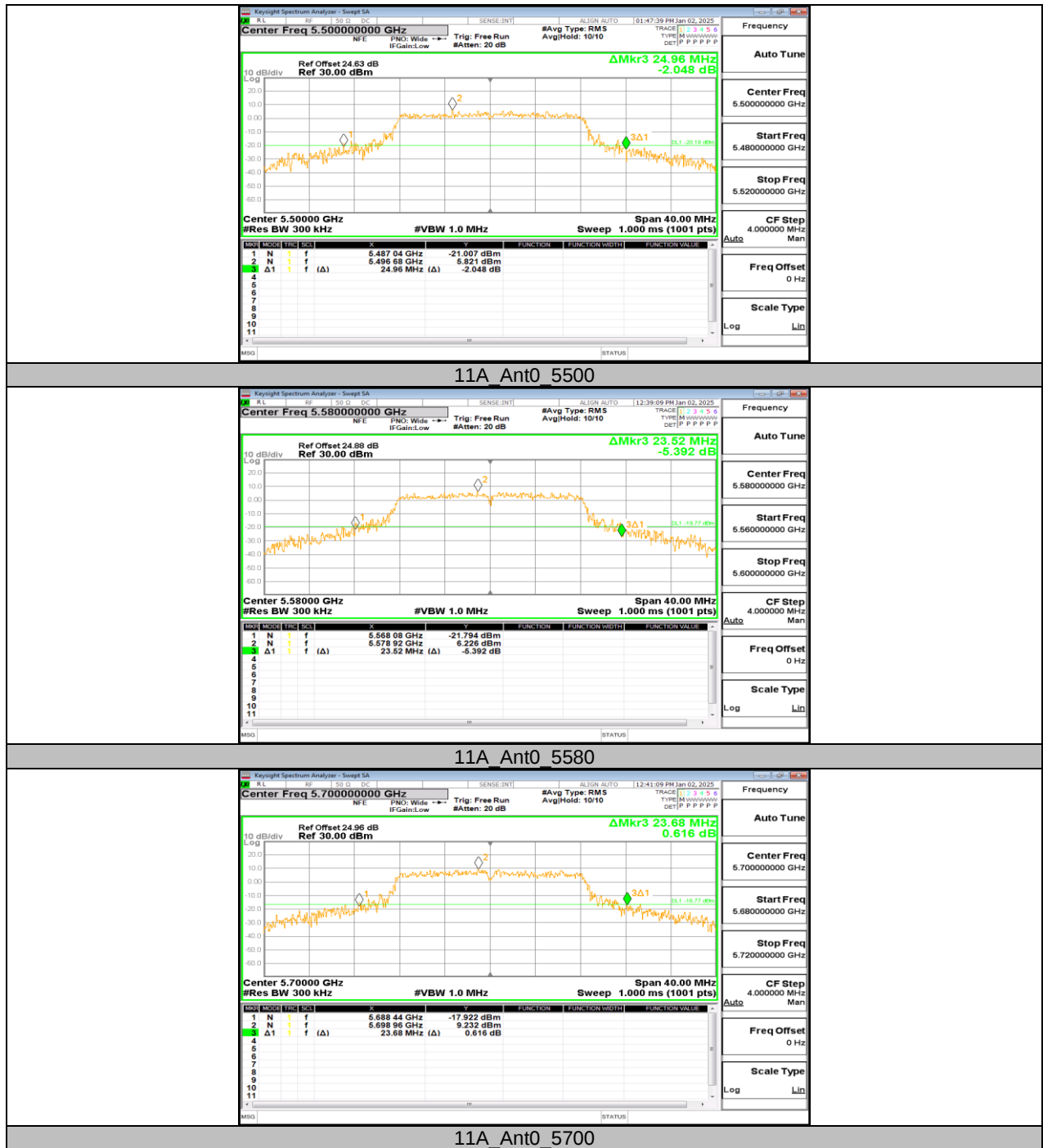
Note:

1. All antennas have been tested, only the worst data record in the report.

### 11.1.2. Test Graphs-Single RU





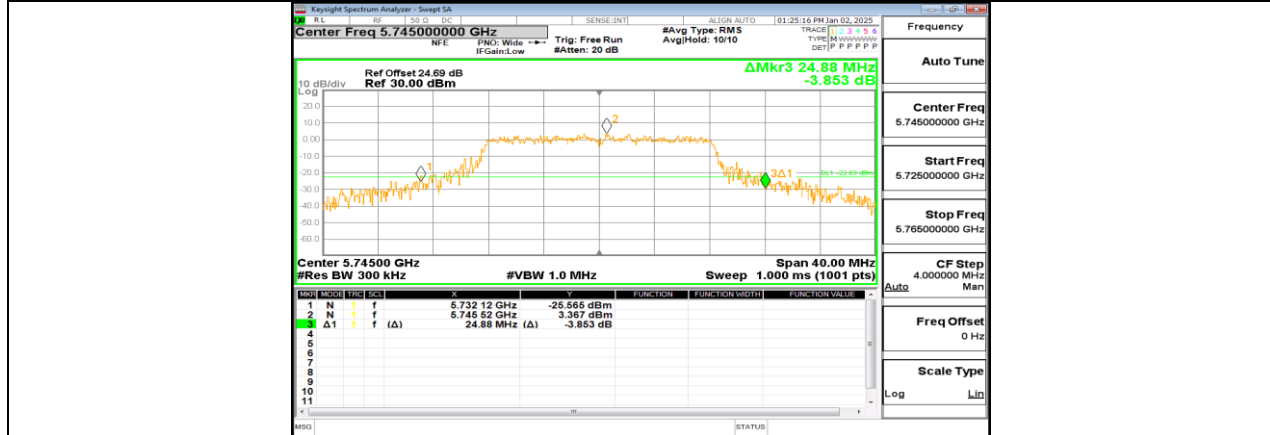




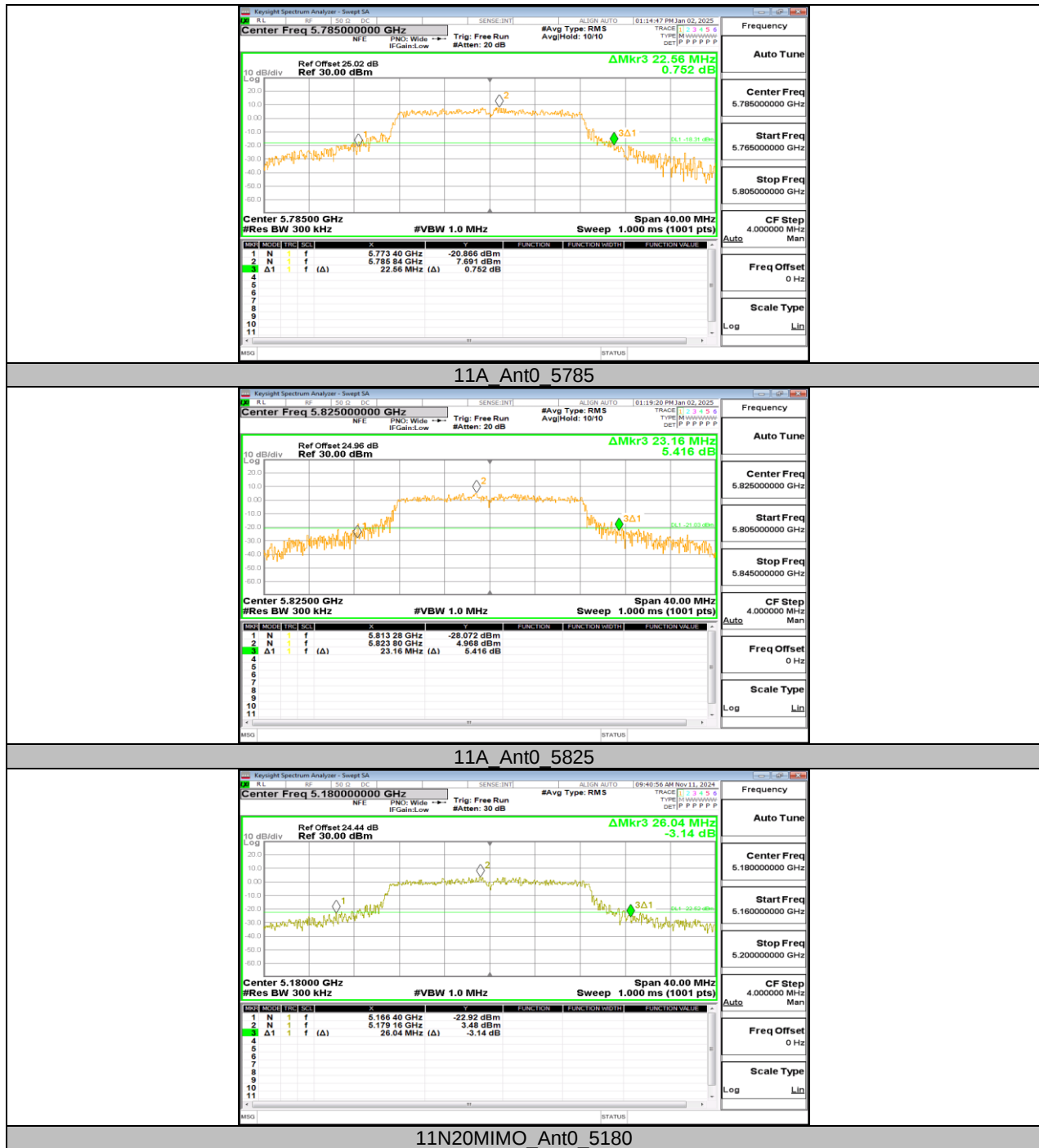
11A Ant0 5720



11A Ant1 5720



11A Ant0 5745

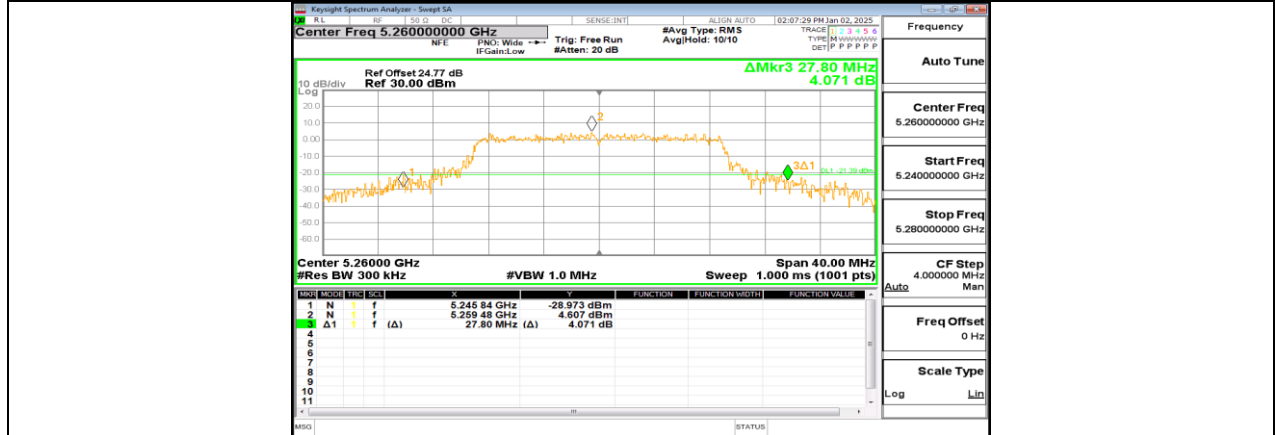




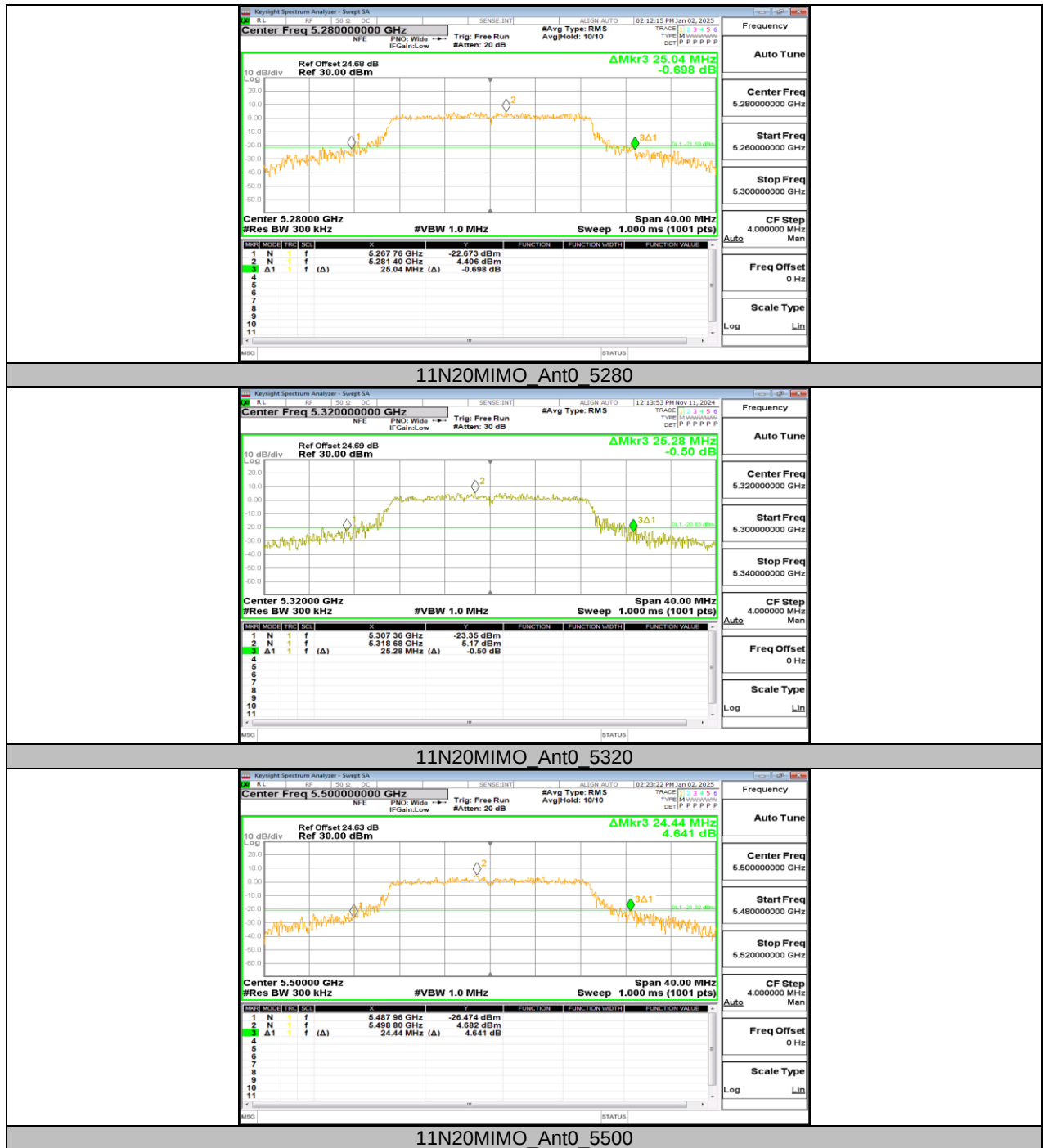
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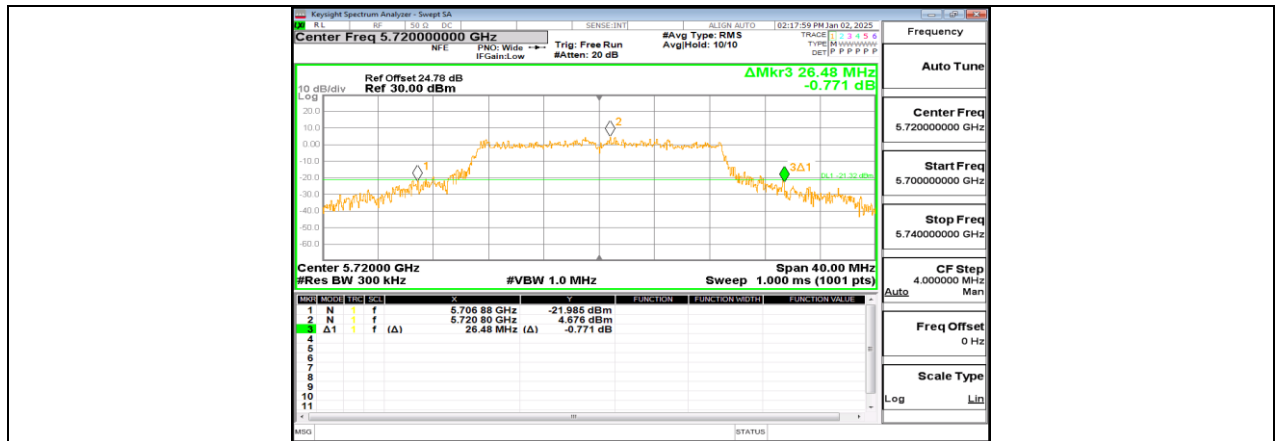
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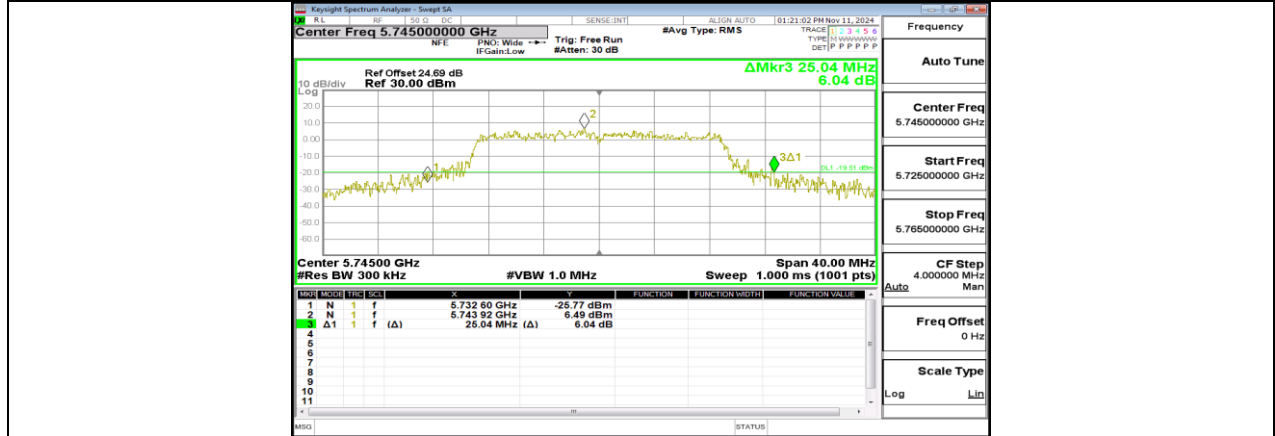
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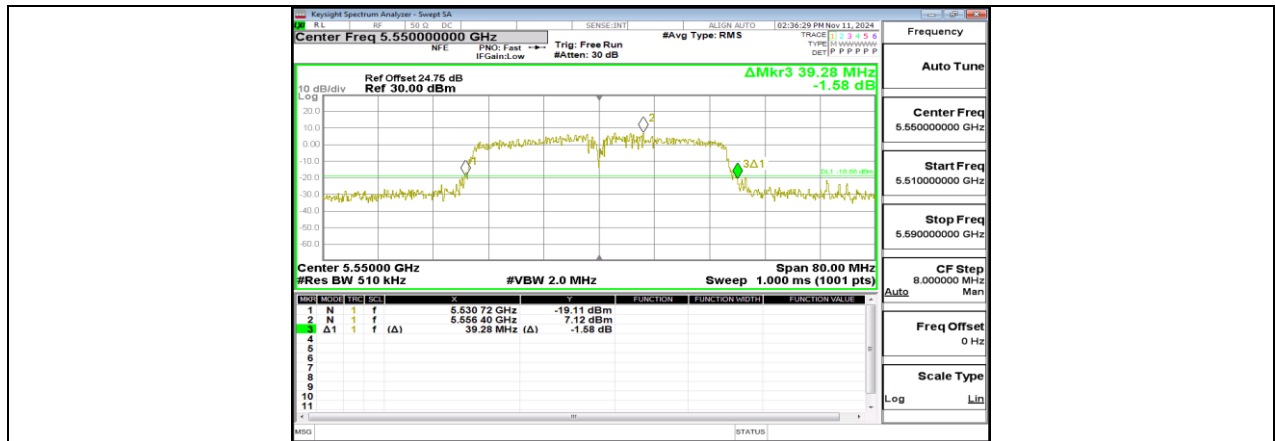
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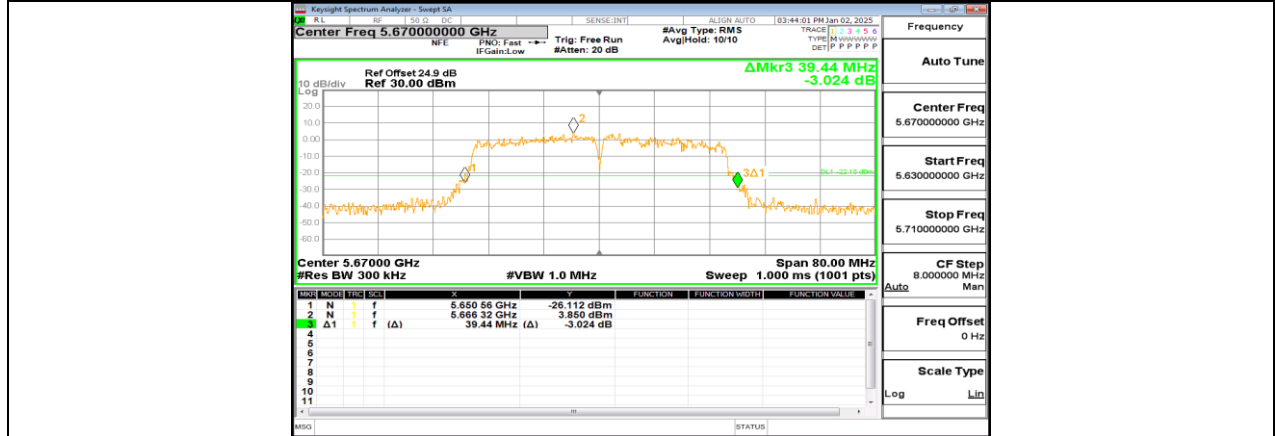
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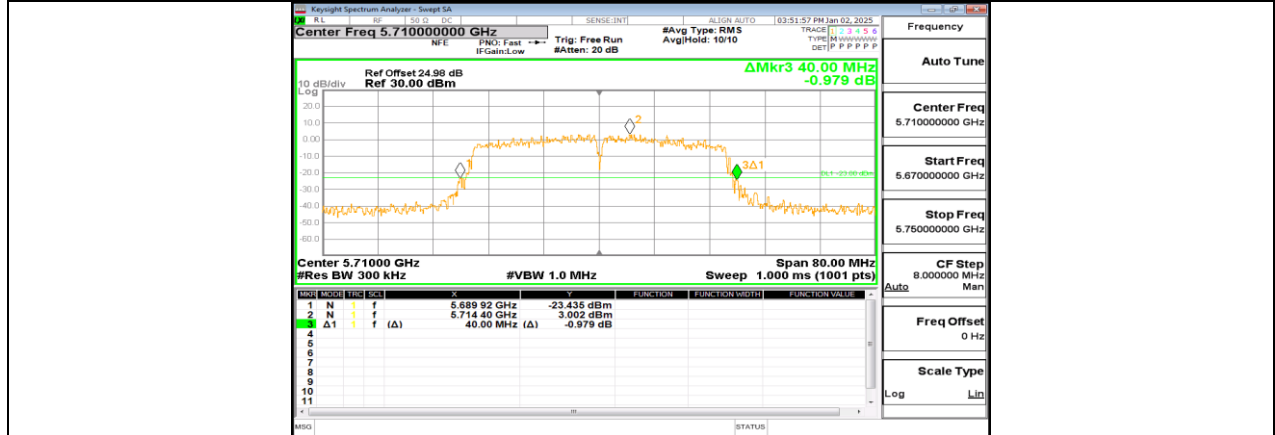




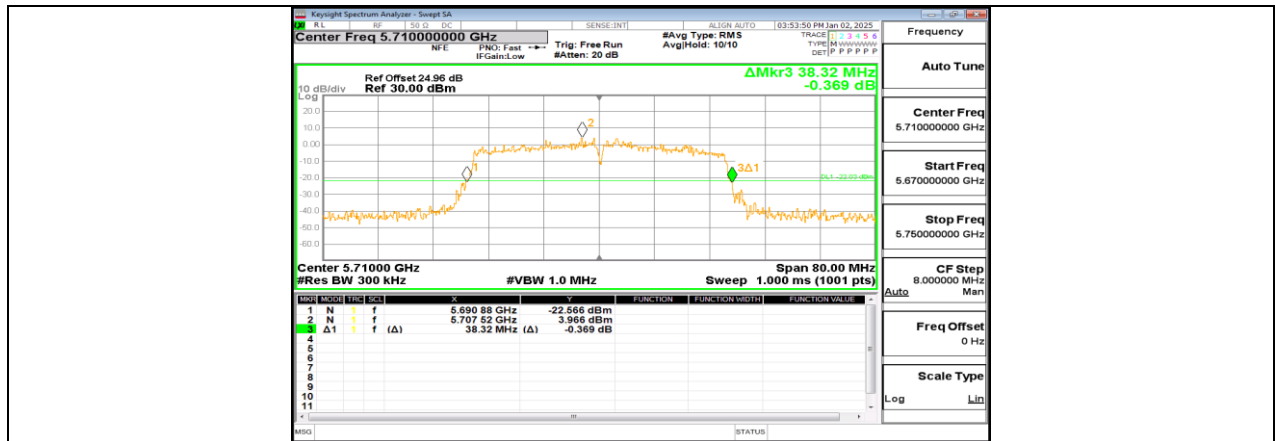
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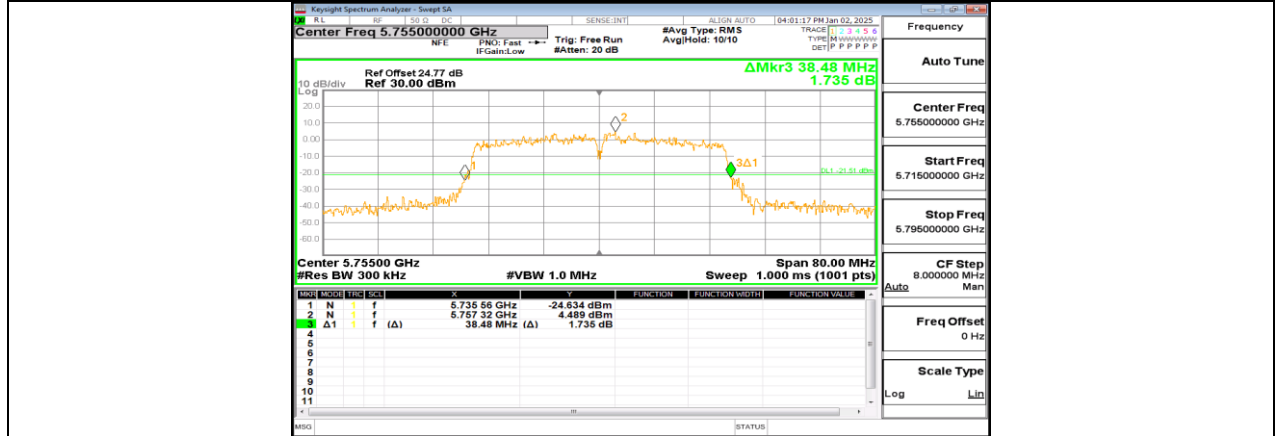
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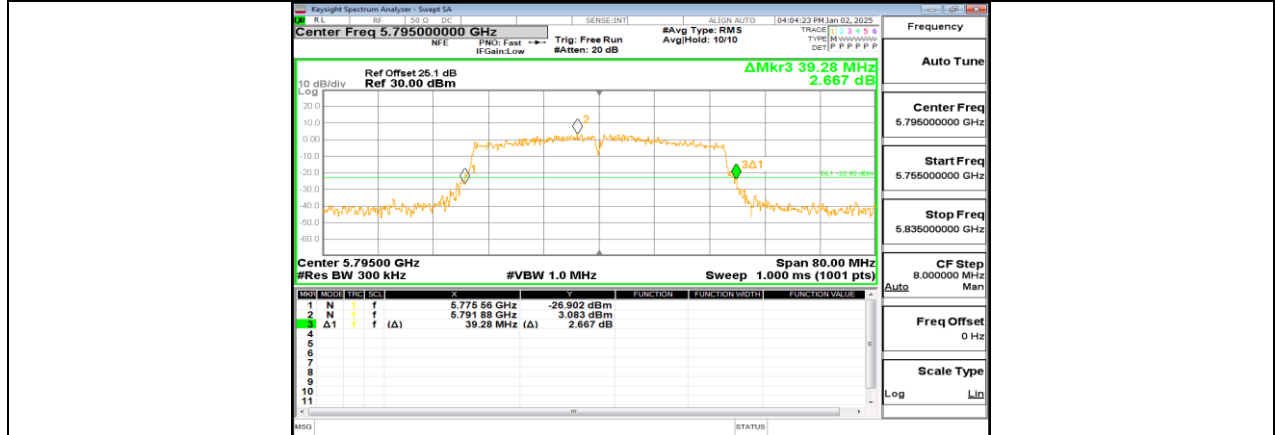
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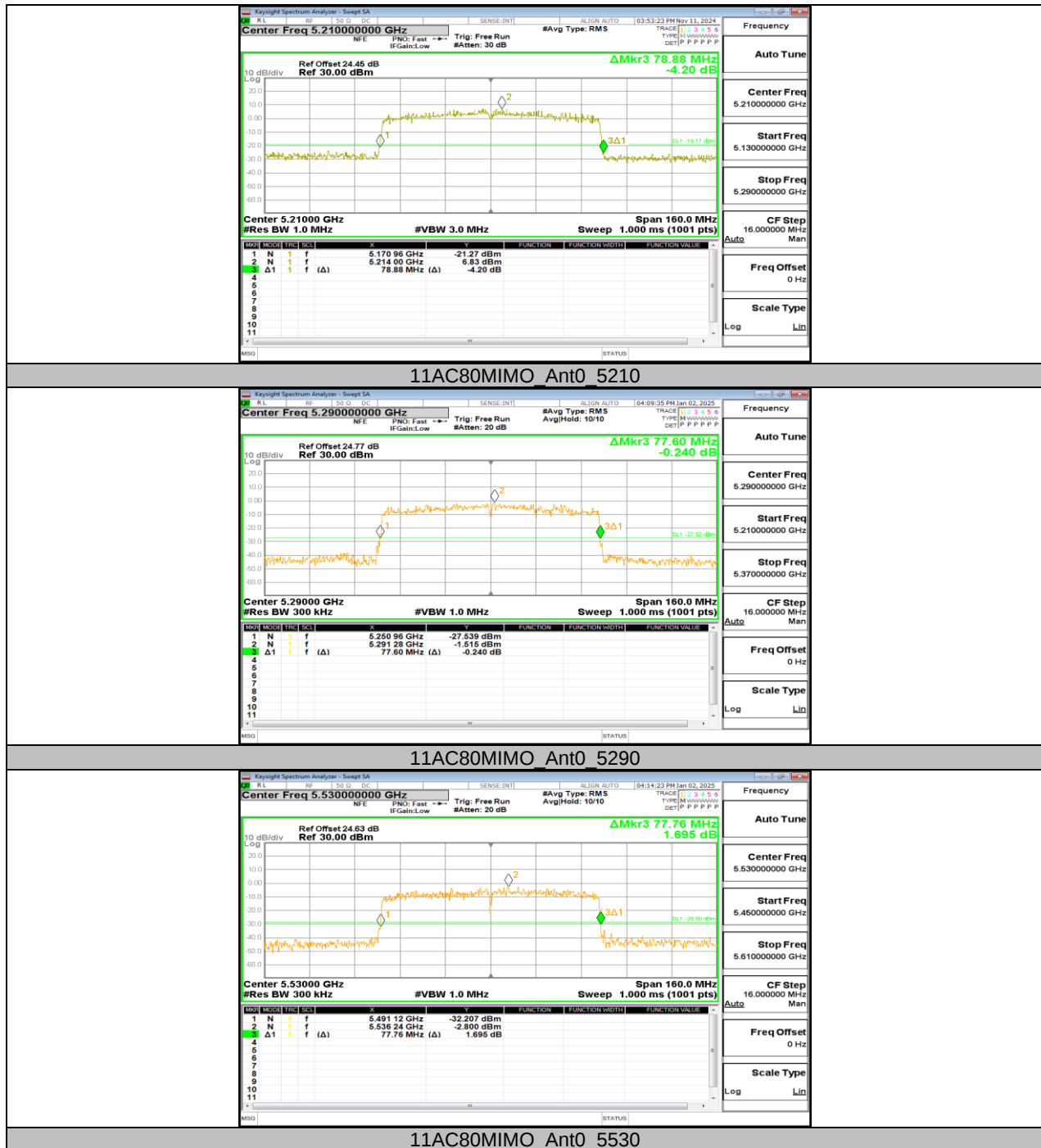
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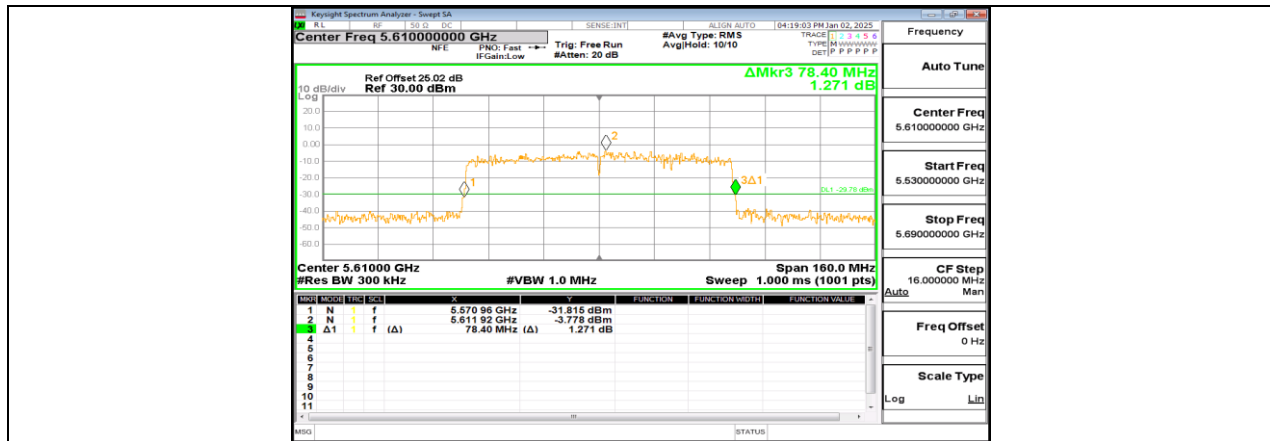


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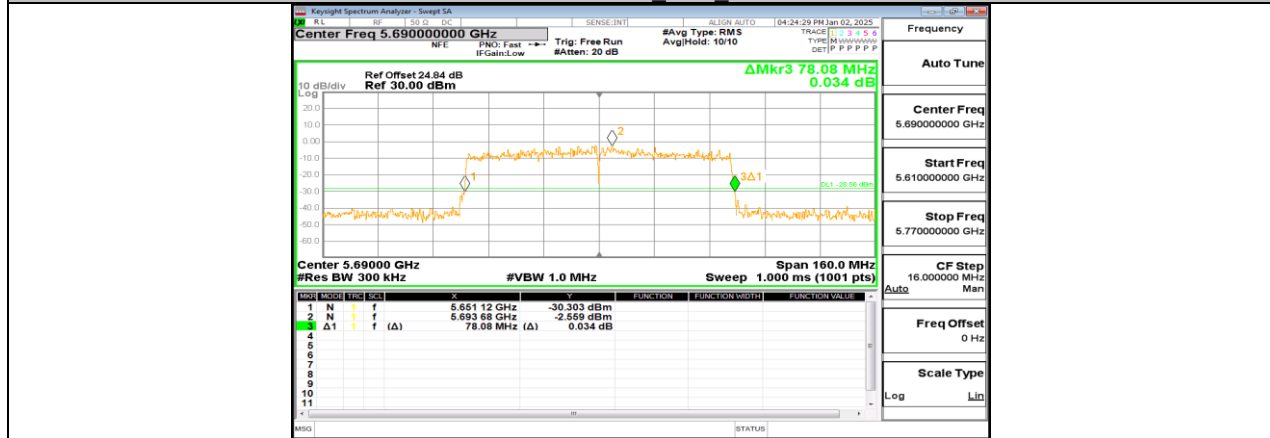


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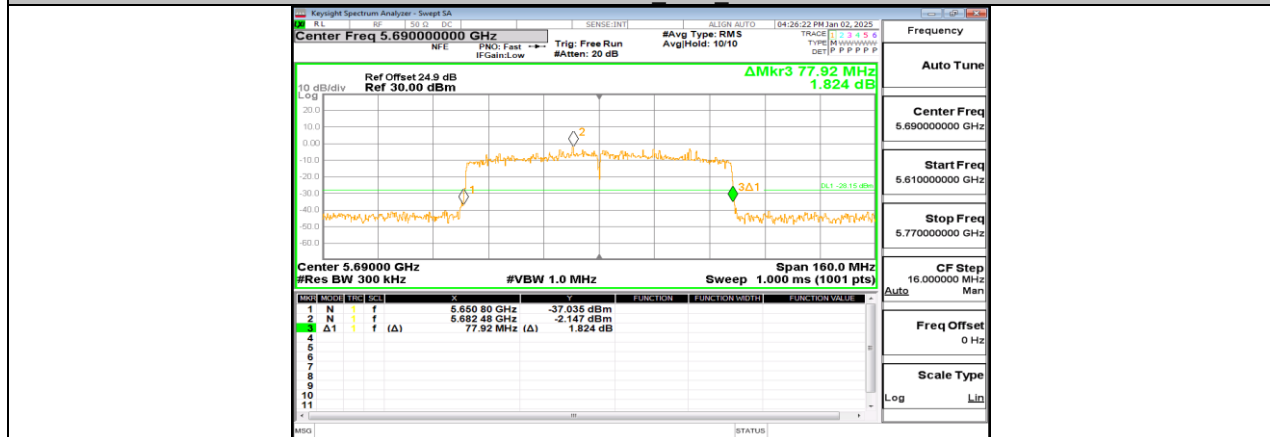




11AC80MIMO\_Ant0\_5610



11AC80MIMO\_Ant0\_5690



11AC80MIMO\_Ant1\_5690

