

## TEST REPORT

**Product** : WIFI Module  
**Trade mark** : GSD  
**Model/Type reference** : WC0PR1601, WC0PR1601F  
**Serial Number** : N/A  
**Report Number** : EED32L00074902  
**FCC ID** : 2AC23-WC0PR1601  
**Date of Issue** : Jun. 27, 2019  
**Test Standards** : 47 CFR Part 15 Subpart E  
**Test result** : PASS

Prepared for:

**Hui Zhou Gaoshengda Technology Co., LTD**  
**NO.75 Zhongkai Development Area, Huizhou, Guangdong, China**

Prepared by:

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Date:

Jun. 27, 2019



Check No.:3096396831

## 2 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | Jun. 27, 2019 | Original    |
|             |               |             |
|             |               |             |

### 3 Test Summary

| Test Item                                                         | Test Requirement                                              | Test method              | Result |
|-------------------------------------------------------------------|---------------------------------------------------------------|--------------------------|--------|
| Antenna Requirement                                               | 47 CFR Part 15 Subpart C<br>Section 15.203                    | ANSI C63.10-2013         | PASS   |
| AC Power Line Conducted Emission                                  | 47 CFR Part 15 Subpart E<br>Section 15.407 (b)(6)             | ANSI C63.10-2013         | PASS   |
| Conducted Output Power and transmit power control mechanism       | 47 CFR Part 15 Subpart E<br>Section 15.407 (a)(1)(2)(4)(h)(1) | ANSI C63.10-2013         | PASS   |
| 26dB Occupied Bandwidth                                           | 47 CFR Part 15 Subpart E<br>Section 15.407 (a)(1)(2)          | ANSI C63.10-2013         | PASS   |
| Peak Power Spectral Density                                       | 47 CFR Part 15 Subpart E<br>Section 15.407 (a)(1)(2)(5)       | ANSI C63.10-2013         | PASS   |
| Frequency stability                                               | 47 CFR Part 15 Subpart E<br>Section 15.407 (g)                | ANSI C63.10-2013         | PASS   |
| Operation in the absence of information to the transmit           | 47 CFR Part 15 Subpart E<br>Section 15.407 (c)                | 47 CFR Part 15 Subpart E | PASS   |
| Unwanted Emissions that fall Outside of the Restricted Bands      | 47 CFR Part 15 Subpart E<br>Section 15.407 (b)(1)(2)(3)(5)    | ANSI C63.10-2013         | PASS   |
| Unwanted Emissions in the Restricted Bands                        | 47 CFR Part 15 Subpart E<br>Section 15.407 (b)(6)(7)(8)       | ANSI C63.10-2013         | PASS   |
| Restricted bands around fundamental frequency (Radiated Emission) | 47 CFR Part 15 Subpart E<br>Section 15.407 (b)(6)(7)(8)       | ANSI C63.10-2013         | PASS   |

**Remark:**

The tested sample(s) and the sample information are provided by the client.

Model No.: WC0PR1601,WC0PR1601F

Only the model WC0PR1601 was tested, their electrical circuit design, layout, components used and internal wiring are identical ,but the SMT connector is different.

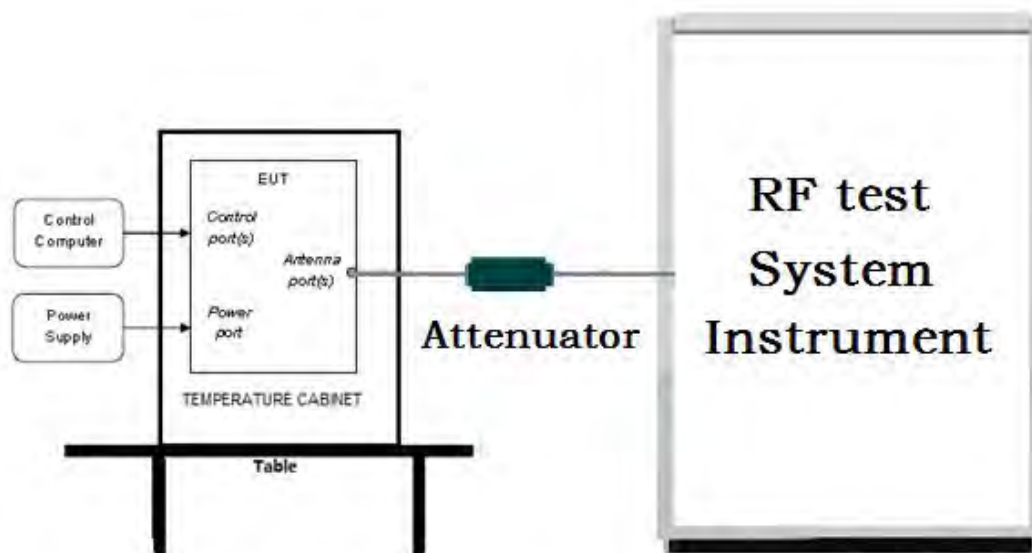
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## 5 Test Requirement

### 5.1 Test setup

#### 5.1.1 For Conducted test setup



#### 5.1.2 For Radiated Emissions test setup

##### Radiated Emissions setup:

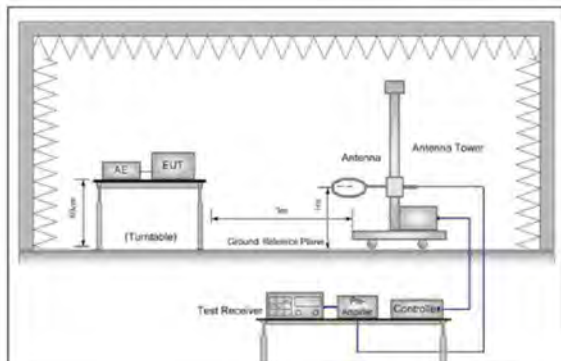


Figure 1. Below 30MHz

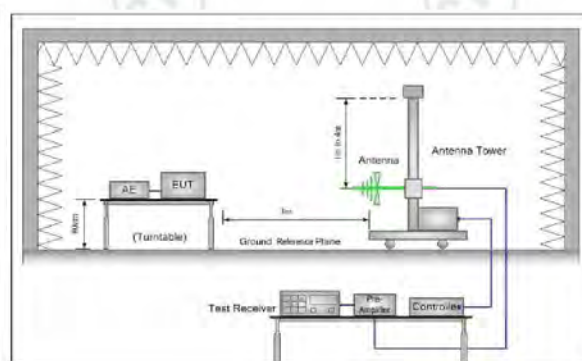


Figure 2. 30MHz to 1GHz

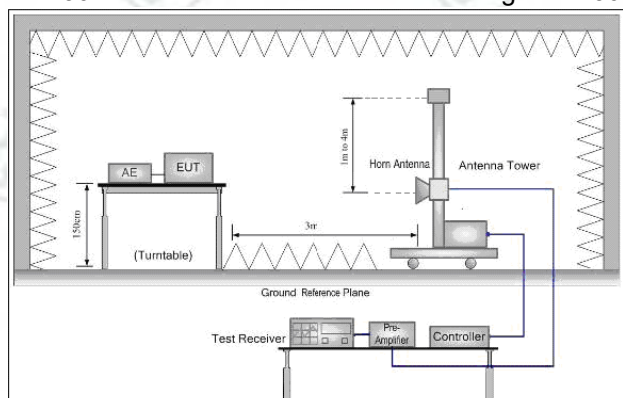
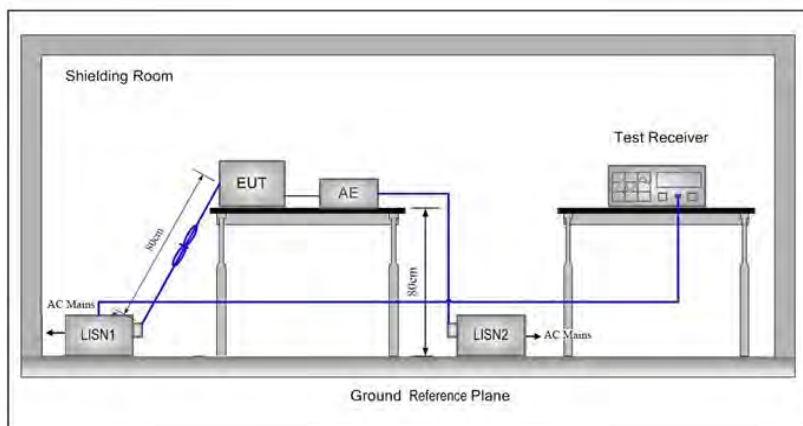


Figure 3. Above 1GHz

### 5.1.3 For Conducted Emissions test setup

#### Conducted Emissions setup



### 5.2 Test Environment

#### Operating Environment for RF test:

|                       |          |
|-----------------------|----------|
| Temperature:          | 25°C     |
| Humidity:             | 51% RH   |
| Atmospheric Pressure: | 1010mbar |

### 5.3 Test Condition

#### Test channel:

| Test Mode         | Tx/Rx             | RF Channel  |             |             |
|-------------------|-------------------|-------------|-------------|-------------|
|                   |                   | Low(L)      | Middle(M)   | High(H)     |
| 802.11a/n/ac(20M) | 5150MHz ~5250 MHz | Channel 36  | Channel 40  | Channel 48  |
|                   |                   | 5180MHz     | 5200MHz     | 5240MHz     |
| 802.11n/ac(40M)   | 5150MHz ~5250 MHz | Channel 38  | N/A         | Channel 46  |
|                   |                   | 5190MHz     | N/A         | 5230MHz     |
| 802.11ac(80M)     | 5150MHz ~5250 MHz | N/A         | Channel 42  | N/A         |
|                   |                   | N/A         | 5210MHz     | N/A         |
| 802.11a/n/ac(20M) | 5725MHz ~5850 MHz | Channel 149 | Channel 157 | Channel 165 |
|                   |                   | 5745MHz     | 5785MHz     | 5825MHz     |
| 802.11n/ac(40M)   | 5725MHz ~5850 MHz | Channel 151 | N/A         | Channel 159 |
|                   |                   | 5755MHz     | N/A         | 5795MHz     |
| 802.11ac(80M)     | 5725MHz ~5850 MHz | N/A         | Channel 155 | N/A         |
|                   |                   | N/A         | 5775MHz     | N/A         |

**Test mode:**
**Pre-scan under all rate at lowest channel for Ant1**

|            |                                             |       |        |        |        |        |        |        |
|------------|---------------------------------------------|-------|--------|--------|--------|--------|--------|--------|
| Mode       | <b>802.11a for 5150MHz ~5250 MHz</b>        |       |        |        |        |        |        |        |
| Data Rate  | 6Mbps                                       | 9Mbps | 12Mbps | 18Mbps | 24Mbps | 36Mbps | 48Mbps | 54Mbps |
| Power(dBm) | 13.86                                       | 13.78 | 13.72  | 13.69  | 13.64  | 13.58  | 13.52  | 13.51  |
| Mode       | <b>802.11n (20M) for 5150MHz ~5250 MHz</b>  |       |        |        |        |        |        |        |
| Data Rate  | MCS0                                        | MCS1  | MCS2   | MCS3   | MCS4   | MCS5   | MCS6   | MCS7   |
| Power(dBm) | 14.09                                       | 13.98 | 13.95  | 13.91  | 13.87  | 13.84  | 13.77  | 13.72  |
| Mode       | <b>802.11ac (20M) for 5150MHz ~5250 MHz</b> |       |        |        |        |        |        |        |
| Data Rate  | MCS0                                        | MCS1  | MCS2   | MCS3   | MCS4   | MCS5   | MCS6   | MCS7   |
| Power(dBm) | 13.83                                       | 13.81 | 13.79  | 13.76  | 13.71  | 13.68  | 13.64  | 13.55  |
| Mode       | <b>802.11n(40M) for 5150MHz ~5250 MHz</b>   |       |        |        |        |        |        |        |
| Data Rate  | MCS0                                        | MCS1  | MCS2   | MCS3   | MCS4   | MCS5   | MCS6   | MCS7   |
| Power(dBm) | 13.18                                       | 13.15 | 13.11  | 13.09  | 13.07  | 13.04  | 12.98  | 12.97  |
| Mode       | <b>802.11ac (40M) for 5150MHz ~5250 MHz</b> |       |        |        |        |        |        |        |
| Data Rate  | MCS0                                        | MCS1  | MCS2   | MCS3   | MCS4   | MCS5   | MCS6   | MCS7   |
| Power(dBm) | 13.34                                       | 13.32 | 13.29  | 13.28  | 13.26  | 13.28  | 13.24  | 13.21  |
| Mode       | <b>802.11ac(80M)for 5150MHz ~5250 MHz</b>   |       |        |        |        |        |        |        |
| Data Rate  | MCS0                                        | MCS1  | MCS2   | MCS3   | MCS4   | MCS5   | MCS6   | MCS7   |
| Power(dBm) | 8.27                                        | 8.26  | 8.24   | 8.25   | 8.19   | 8.14   | 8.16   | 8.21   |
| Mode       | <b>802.11a for 5725MHz ~5850 MHz</b>        |       |        |        |        |        |        |        |
| Data Rate  | 6Mbps                                       | 9Mbps | 12Mbps | 18Mbps | 24Mbps | 36Mbps | 48Mbps | 54Mbps |
| Power(dBm) | 14.33                                       | 14.9  | 14.30  | 4.25   | 14.26  | 14.21  | 14.23  | 14.20  |
| Mode       | <b>802.11n (20M) for 5725MHz ~5850 MHz</b>  |       |        |        |        |        |        |        |
| Data Rate  | MCS0                                        | MCS1  | MCS2   | MCS3   | MCS4   | MCS5   | MCS6   | MCS7   |
| Power(dBm) | 14.49                                       | 14.46 | 14.42  | 14.43  | 14.45  | 14.32  | 14.38  | 14.36  |
| Mode       | <b>802.11ac (20M) for 5725MHz ~5850 MHz</b> |       |        |        |        |        |        |        |
| Data Rate  | MCS0                                        | MCS1  | MCS2   | MCS3   | MCS4   | MCS5   | MCS6   | MCS7   |
| Power(dBm) | 14.01                                       | 14.00 | 13.96  | 13.98  | 13.92  | 13.94  | 13.86  | 13.88  |
| Mode       | <b>802.11n (40M) for 5725MHz ~5850 MHz</b>  |       |        |        |        |        |        |        |
| Data Rate  | MCS0                                        | MCS1  | MCS2   | MCS3   | MCS4   | MCS5   | MCS6   | MCS7   |
| Power(dBm) | 13.93                                       | 13.89 | 13.85  | 13.90  | 13.87  | 13.84  | 13.83  | 13.80  |
| Mode       | <b>802.11ac (40M) for 5725MHz ~5850 MHz</b> |       |        |        |        |        |        |        |
| Data Rate  | MCS0                                        | MCS1  | MCS2   | MCS3   | MCS4   | MCS5   | MCS6   | MCS7   |
| Power(dBm) | 13.89                                       | 13.82 | 13.84  | 13.86  | 13.78  | 13.79  | 13.75  | 13.71  |
| Mode       | <b>802.11ac(80M)for 5725MHz ~5850 MHz</b>   |       |        |        |        |        |        |        |
| Data Rate  | MCS0                                        | MCS1  | MCS2   | MCS3   | MCS4   | MCS5   | MCS6   | MCS7   |
| Power(dBm) | 12.26                                       | 12.24 | 12.19  | 12.21  | 12.20  | 12.17  | 12.16  | 12.10  |

Through Pre-scan, 6Mbps is the worst case of 802.11a (20M) for 5150MHz ~5250 MHz; MCS0 is the worst case of 802.11n (20M) for 5150MHz ~5250 MHz; MCS0 is the worst case of 802.11ac (20M) for 5150MHz ~5250 MHz; MCS0 is the worst case of 802.11n(40M) for 5150MHz ~5250 MHz; MCS0 is the worst case of 802.11ac (40M) for 5150MHz ~5250 MHz; MCS0 is the worst case of 802.11ac(80M)for 5150MHz ~5250 MHz; 6Mbps is the worst case of 802.11a (20M) for 5725MHz ~5850 MHz; MCS0 is the worst case of 802.11n (20M) for 5725MHz ~5850 MHz; MCS0 is the worst case of 802.11ac (20M) for 5725MHz ~5850 MHz; MCS0 is the worst case of 802.11n (40M) for 5725MHz ~5850 MHz; MCS0 is the worst case of 802.11ac (40M) for 5725MHz ~5850 MHz; MCS0 is the worst case of 802.11ac(80M)for 5725MHz ~5850 MHz.

## 6 General Information

### 6.1 Client Information

|                          |                                                            |
|--------------------------|------------------------------------------------------------|
| Applicant:               | Hui Zhou Gaoshengda Technology Co., LTD                    |
| Address of Applicant:    | NO.75 Zhongkai Development Area, Huizhou, Guangdong, China |
| Manufacturer:            | Hui Zhou Gaoshengda Technology Co., LTD                    |
| Address of Manufacturer: | NO.75 Zhongkai Development Area, Huizhou, Guangdong, China |
| Factory:                 | Hui Zhou Gaoshengda Technology Co., LTD                    |
| Address of Factory:      | NO.75 Zhongkai Development Area, Huizhou, Guangdong, China |

### 6.2 General Description of EUT

|                                  |                                                                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                    | WIFI Module                                                                                                                                      |
| Model No.(EUT):                  | WC0PR1601, WC0PR1601F                                                                                                                            |
| Test Model No.:                  | WC0PR1601                                                                                                                                        |
| Trade Mark:                      | GSD                                                                                                                                              |
| EUT Supports Radios application: | 2.4G WiFi:<br>IEEE802.11b/g/n(20MHz)/n(40MHz), 2412MHz-2462MHz<br>5G WiFi:<br>IEEE802.11a/ac(HT20)/ac(HT40)/ac(HT80), 5150-5250MHz, 5725-5850MHz |
| Firmware version of the sample:  | V1.0(manufacturer declare)                                                                                                                       |
| Hardware version of the sample:  | V1.0(manufacturer declare)                                                                                                                       |
| Sample Received Date:            | Apr. 04, 2019                                                                                                                                    |
| Sample tested Date:              | Apr. 15, 2019 to Jun. 26, 2019                                                                                                                   |

### 6.3 Product Specification subjective to this standard

|                       |                                                                                                                                                                                                                                                                                                                            |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation Frequency:  | IEEE 802.11a/n/ac(20M): 5150MHz ~5250 MHz<br>IEEE802.11n/ac(40M): 5150MHz ~5250 MHz<br>IEEE802.11ac(80M): 5150MHz ~5250 MHz<br>IEEE 802.11a/n/ac(20M): 5725MHz ~5850 MHz<br>IEEE802.11n/ac(40M): 5725MHz ~5850 MHz<br>IEEE802.11ac(80M): 5725MHz ~5850 MHz                                                                 |
| Channel Numbers:      | IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel<br>IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel<br>IEEE 802.11ac(80M): 5150MHz ~5250MHz/ 1 channel<br>IEEE 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel<br>IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel<br>IEEE 802.11ac(80M): 5725MHz ~5850MHz/ 1 channel |
| Type of Modulation:   | OFDM, DSSS                                                                                                                                                                                                                                                                                                                 |
| Test Power Grade:     | N/A                                                                                                                                                                                                                                                                                                                        |
| Test Software of EUT: | Win7_MP_Kit_RTL11ac_8821CU_USB_v3.00_20171106(manufacturer declare)                                                                                                                                                                                                                                                        |
| Antenna Type:         | PIFA Antenna                                                                                                                                                                                                                                                                                                               |
| Antenna gain:         | 3dBi                                                                                                                                                                                                                                                                                                                       |
| Test Voltage:         | DC 3.3V                                                                                                                                                                                                                                                                                                                    |

Operation Frequency each of channel

| For 802.11a/n/ac( 20M) Operation in the 5150MHz ~5250 MHz band |           |         |           |
|----------------------------------------------------------------|-----------|---------|-----------|
| Channel                                                        | Frequency | Channel | Frequency |
| 36                                                             | 5180MHz   | 44      | 5220MHz   |

|    |         |    |         |
|----|---------|----|---------|
| 40 | 5200MHz | 48 | 5240MHz |
|----|---------|----|---------|

| For 802.11a/n/ac( 20M) Operation in the 5725MHz ~5850 MHz band |           |         |           |
|----------------------------------------------------------------|-----------|---------|-----------|
| Channel                                                        | Frequency | Channel | Frequency |
| 149                                                            | 5745MHz   | 161     | 5805MHz   |
| 153                                                            | 5765MHz   | 165     | 5825MHz   |
| 157                                                            | 5785MHz   | NA      | NA        |

| For 802.11n/ac(40M) Operation in the 5150MHz ~5250 MHz band |           |         |           |
|-------------------------------------------------------------|-----------|---------|-----------|
| Channel                                                     | Frequency | Channel | Frequency |
| 38                                                          | 5190MHz   | 46      | 5230MHz   |
| For 802.11n/ac(40M) Operation in the 5725MHz ~5850 MHz band |           |         |           |
| Channel                                                     | Frequency | Channel | Frequency |
| 151                                                         | 5755MHz   | 159     | 5795MHz   |

| For 802.11ac(80M) Operation in the 5150MHz ~5250 MHz band |           |         |           |
|-----------------------------------------------------------|-----------|---------|-----------|
| Channel                                                   | Frequency | Channel | Frequency |
| 42                                                        | 5210MHz   | NA      | NA        |
| For 802.11ac(80M) Operation in the 5725MHz ~5850 MHz band |           |         |           |
| Channel                                                   | Frequency | Channel | Frequency |
| 155                                                       | 5775MHz   | NA      | NA        |

## 6.4 Description of Support Units

The EUT has been tested independently.

## 6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Building C, Hongwei Ind. Zone, Baoan 70 District, Shenzhen, 518101, China

Telephone: +86 (0) 755 3368 3668 Fax: +86 (0) 755 3368 3385

No tests were sub-contracted.

FCC Designation No.: CN1164

## 6.6 Deviation from Standards

None.

## 6.7 Abnormalities from Standard Conditions

None.

## 6.8 Other Information Requested by the Customer

None.

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

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Radio Frequency                 | $7.9 \times 10^{-8}$    |
| 2   | RF power, conducted             | 0.46dB (30MHz-1GHz)     |
|     |                                 | 0.55dB (1GHz-18GHz)     |
| 3   | Radiated Spurious emission test | 4.5dB (30MHz-1GHz)      |
|     |                                 | 4.8dB (1GHz-12.75GHz)   |
| 4   | Conduction emission             | 3.5dB (9kHz to 150kHz)  |
|     |                                 | 3.1dB (150kHz to 30MHz) |
| 5   | Temperature test                | 0.64°C                  |
| 6   | Humidity test                   | 3.8%                    |
| 7   | DC power voltages               | 0.026%                  |

## 7 Equipment List

| RF test system                   |               |                              |               |                        |                            |
|----------------------------------|---------------|------------------------------|---------------|------------------------|----------------------------|
| Equipment                        | Manufacturer  | Model No.                    | Serial Number | Cal. Date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| Signal Generator                 | Keysight      | E8257D                       | MY53401106    | 03-01-2019             | 02-28-2020                 |
| Spectrum Analyzer                | Keysight      | N9010A                       | MY54510339    | 03-01-2019             | 02-28-2020                 |
| Signal Generator                 | Keysight      | N5182B                       | MY53051549    | 03-01-2019             | 02-28-2020                 |
| High-pass filter                 | Sinoscite     | FL3CX03WG1<br>8NM12-0398-002 | ---           | 01-09-2019             | 01-08-2020                 |
| High-pass filter                 | MICRO-TRONICS | SPA-F-63029-4                | ---           | 01-09-2019             | 01-08-2020                 |
| DC Power                         | Keysight      | E3642A                       | MY54426035    | 03-01-2019             | 02-28-2020                 |
| PC-1                             | Lenovo        | R4960d                       | ---           | 03-01-2019             | 02-28-2020                 |
| BT&WI-FI Automatic control       | R&S           | OSP120                       | 101374        | 03-01-2019             | 02-28-2020                 |
| RF control unit                  | JS Tonscend   | JS0806-2                     | 15860006      | 03-01-2019             | 02-28-2020                 |
| RF control unit                  | JS Tonscend   | JS0806-1                     | 15860004      | 03-01-2019             | 02-28-2020                 |
| RF control unit                  | JS Tonscend   | JS0806-4                     | 158060007     | 03-01-2019             | 02-28-2020                 |
| BT&WI-FI Automatic test software | JS Tonscend   | JS1120-2                     | ---           | 03-01-2019             | 02-28-2020                 |
| Temperature/ Humidity Indicator  | biaozhi       | HM10                         | 1804186       | 10-12-2018             | 10-11-2019                 |

| Conducted disturbance Test      |              |                         |                |                        |                            |
|---------------------------------|--------------|-------------------------|----------------|------------------------|----------------------------|
| Equipment                       | Manufacturer | Model No.               | Serial Number  | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| Receiver                        | R&S          | ESCI                    | 100435         | 05-20-2019             | 05-18-2020                 |
| Temperature/ Humidity Indicator | Defu         | TH128                   | /              | 06-14-2019             | 06-12-2020                 |
| Communication test set          | Agilent      | E5515C                  | GB47050<br>534 | 03-01-2019             | 02-29-2020                 |
| Communication test set          | R&S          | CMW500                  | 102898         | 01-18-2019             | 01-17-2020                 |
| LISN                            | R&S          | ENV216                  | 100098         | 05-08-2019             | 05-06-2020                 |
| LISN                            | schwarzbeck  | NNLK8121                | 8121-529       | 05-08-2019             | 05-06-2020                 |
| Voltage Probe                   | R&S          | ESH2-Z3<br>0299.7810.56 | 100042         | 06-13-2017             | 06-11-2020                 |
| Current Probe                   | R&S          | EZ-17<br>816.2063.03    | 100106         | 05-20-2019             | 05-18-2020                 |
| ISN                             | TESEQ        | ISN T800                | 30297          | 01-06-2019             | 01-15-2020                 |

| 3M Semi/full-anechoic Chamber    |                  |                          |               |                        |                            |
|----------------------------------|------------------|--------------------------|---------------|------------------------|----------------------------|
| Equipment                        | Manufacturer     | Model No.                | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| 3M Chamber & Accessory Equipment | TDK              | SAC-3                    | ---           | 05-24-2019             | 05-22-2020                 |
| TRILOG Broadband Antenna         | Schwarzbeck      | VULB9163                 | 9163-401      | 12-21-2018             | 12-20-2019                 |
| TRILOG Broadband Antenna         | Schwarzbeck      | VULB9163                 | 9163-618      | 07-30-2018             | 07-29-2019                 |
| Microwave Preamplifier           | Agilent          | 8449B                    | 3008A02425    | 08-21-2018             | 08-20-2019                 |
| Microwave Preamplifier           | Tonscend         | EMC051845 SE             | 980380        | 01-16-2019             | 01-15-2020                 |
| Horn Antenna                     | Schwarzbeck      | BBHA 9120D               | 9120D-1869    | 04-25-2018             | 04-23-2021                 |
| Horn Antenna                     | ETS-LINDGREN     | 3117                     | 00057410      | 06-05-2018             | 06-03-2021                 |
| Double ridge horn antenna        | A.H.SYSTEMS      | SAS-574                  | 374           | 06-05-2018             | 06-04-2021                 |
| Pre-amplifier                    | A.H.SYSTEMS      | PAP-1840-60              | 6041.6041     | 08-08-2018             | 08-07-2019                 |
| Spectrum Analyzer                | R&S              | FSP40                    | 100416        | 04-28-2019             | 04-26-2020                 |
| Receiver                         | R&S              | ESCI                     | 100435        | 05-20-2019             | 05-18-2020                 |
| Receiver                         | R&S              | ESCI7                    | 100938-003    | 11-23-2018             | 11-22-2019                 |
| Multi device Controller          | maturo           | NCD/070/10711112         | ---           | 01-09-2019             | 01-08-2020                 |
| LISN                             | schwarzbeck      | NNBM8125                 | 81251547      | 05-08-2019             | 05-06-2020                 |
| LISN                             | schwarzbeck      | NNBM8125                 | 81251548      | 05-08-2019             | 05-06-2020                 |
| Signal Generator                 | Agilent          | E4438C                   | MY45095744    | 03-01-2019             | 02-28-2020                 |
| Signal Generator                 | Keysight         | E8257D                   | MY53401106    | 03-01-2019             | 02-28-2020                 |
| Temperature/ Humidity Indicator  | Shanghai qixiang | HM10                     | 1804298       | 10-12-2018             | 10-11-2019                 |
| Communication test set           | Agilent          | E5515C                   | GB47050534    | 03-01-2019             | 02-28-2020                 |
| Cable line                       | Fulai(7M)        | SF106                    | 5219/6A       | 01-09-2019             | 01-08-2020                 |
| Cable line                       | Fulai(6M)        | SF106                    | 5220/6A       | 01-09-2019             | 01-08-2020                 |
| Cable line                       | Fulai(3M)        | SF106                    | 5216/6A       | 01-09-2019             | 01-08-2020                 |
| Cable line                       | Fulai(3M)        | SF106                    | 5217/6A       | 01-09-2019             | 01-08-2020                 |
| Communication test set           | R&S              | CMW500                   | 104466        | 01-18-2019             | 01-17-2020                 |
| High-pass filter                 | Sinoscite        | FL3CX03WG18NM12-0398-002 | ---           | 01-09-2019             | 01-08-2020                 |
| High-pass filter                 | MICRO-TRONICS    | SPA-F-63029-4            | ---           | 01-09-2019             | 01-08-2020                 |
| band rejection filter            | Sinoscite        | FL5CX01CA09CL12-0395-001 | ---           | 01-09-2019             | 01-08-2020                 |
| band rejection filter            | Sinoscite        | FL5CX01CA08CL12-0393-001 | ---           | 01-09-2019             | 01-08-2020                 |
| band rejection filter            | Sinoscite        | FL5CX02CA04CL12-0396-002 | ---           | 01-09-2019             | 01-08-2020                 |
| band rejection filter            | Sinoscite        | FL5CX02CA03CL12-0394-001 | ---           | 01-09-2019             | 01-08-2020                 |

## 8 Radio Technical Requirements Specification

### Reference documents for testing:

| No. | Identity                                                 | Document Title                                                                                                       |
|-----|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 1   | FCC Part15E                                              | Subpart C-Intentional Radiators                                                                                      |
| 2   | ANSI C63.10-2013                                         | American National Standard for Testing Unlicensed Wireless Devices                                                   |
| 3   | KDB789033 D02 General UNII Test Procedures New Rules v01 | Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15 subpart E |
| 4   | KDB 662911 D01 Multiple Transmitter Output v02r01        | Emissions Testing of Transmitters with Multiple Outputs in the Same Band                                             |

### Test Results List:

| Test Requirement                          | Test method      | Test item                                                         | Verdict | Note        |
|-------------------------------------------|------------------|-------------------------------------------------------------------|---------|-------------|
| Part15E Section 15.407 (a)(1)(2)(4)(h)(1) | KDB789033 D02v01 | Conducted Output Power and transmit power control mechanism       | PASS    | Appendix A) |
| Part15E Section 15.407 (a)(1)(2)          | KDB789033 D02v01 | 26dB Occupied Bandwidth                                           | PASS    | Appendix B) |
| Part15E Section 15.407 (a)(1)(2)(5)       | KDB789033 D02v01 | Power Spectral Density                                            | PASS    | Appendix C) |
| Part15E Section 15.407 (b)(1)to(6)        | KDB789033 D02v01 | Band Edge Measurements                                            | PASS    | Appendix D) |
| Part15E Section 15.407 (g)                | KDB789033 D02v01 | Frequency stability                                               | PASS    | Appendix E) |
| Part15C Section 15.203                    | ANSI C63.10      | Antenna Requirement                                               | PASS    | Appendix F) |
| Part15E Section 15.407 (c)                | Section 15.407   | Operation in the absence of information to the transmit           | PASS    | Appendix G) |
| Part15E Section 15.407 (b)(6)             | ANSI C63.10      | AC Power Line Conducted Emission                                  | PASS    | Appendix H) |
| Part15E Section 15.407 (b)(6)(7)(8)       | KDB789033 D02v01 | Restricted bands around fundamental frequency (Radiated Emission) | PASS    | Appendix I) |
| Part15E Section 15.407 (b)(6)(7)(8)       | KDB789033 D02v01 | Unwanted Emissions in the Restricted Bands                        | PASS    | Appendix J) |
| Part15E Section 15.407 (b)(1)(2)(3)(5)    | KDB789033 D02v01 | Unwanted Emissions that fall Outside of the Restricted Bands      | PASS    | Appendix K) |

## Appendix A): Emission Bandwidth

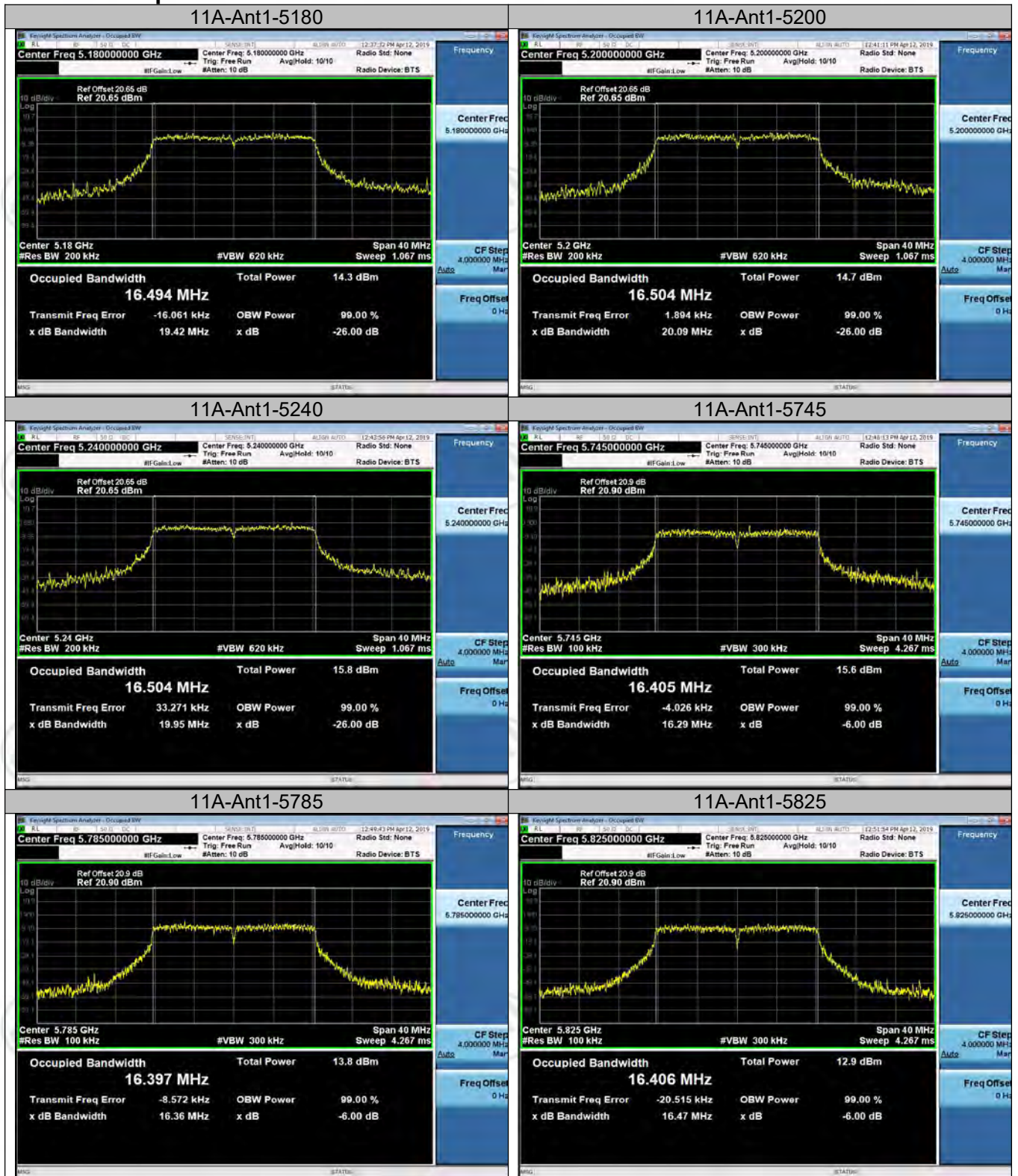
### Result Table

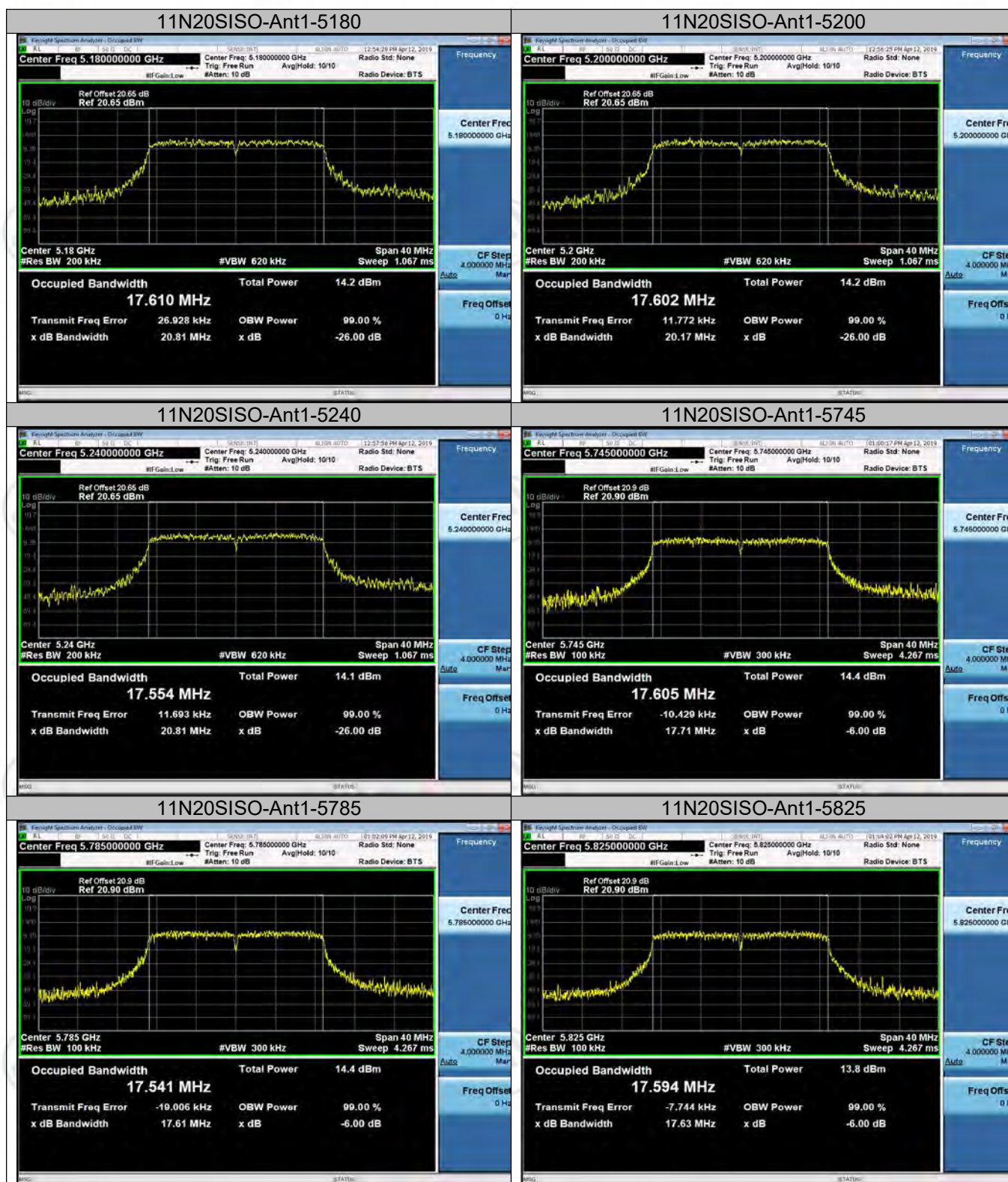
#### WC0PR1601: Antenna 2

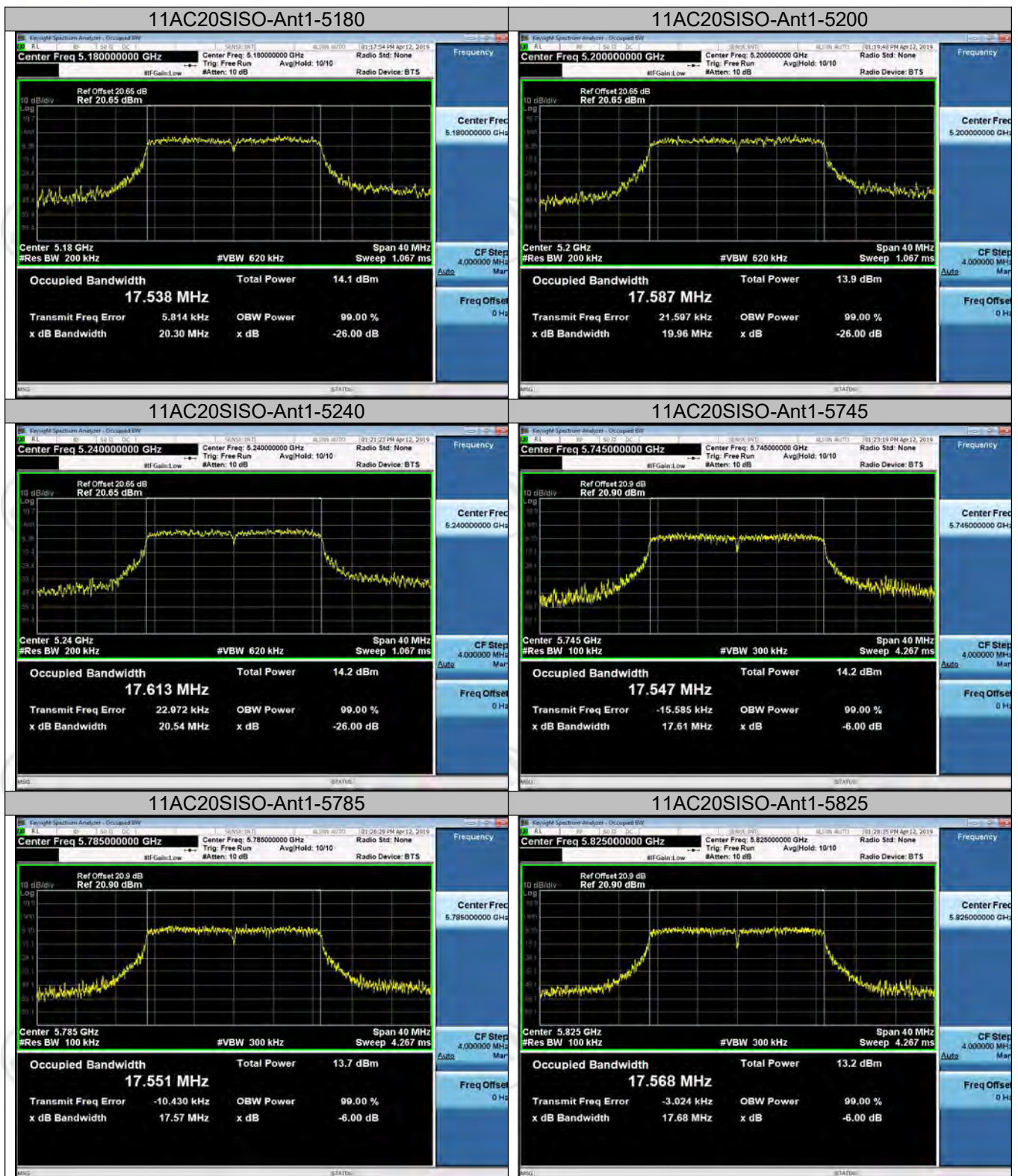
| Test Mode  | Antenna | Channel | EBW[MHz] | OBW[MHz] | Verdict |
|------------|---------|---------|----------|----------|---------|
| 11A        | Ant1    | 5180    | 19.42    | 16.494   | PASS    |
| 11A        | Ant1    | 5200    | 20.09    | 16.504   | PASS    |
| 11A        | Ant1    | 5240    | 19.95    | 16.504   | PASS    |
| 11A        | Ant1    | 5745    | 16.29    | 16.405   | PASS    |
| 11A        | Ant1    | 5785    | 16.36    | 16.397   | PASS    |
| 11A        | Ant1    | 5825    | 16.47    | 16.406   | PASS    |
| 11N20SISO  | Ant1    | 5180    | 20.81    | 17.610   | PASS    |
| 11N20SISO  | Ant1    | 5200    | 20.17    | 17.602   | PASS    |
| 11N20SISO  | Ant1    | 5240    | 20.81    | 17.554   | PASS    |
| 11N20SISO  | Ant1    | 5745    | 17.71    | 17.605   | PASS    |
| 11N20SISO  | Ant1    | 5785    | 17.61    | 17.541   | PASS    |
| 11N20SISO  | Ant1    | 5825    | 17.63    | 17.594   | PASS    |
| 11AC20SISO | Ant1    | 5180    | 20.30    | 17.538   | PASS    |
| 11AC20SISO | Ant1    | 5200    | 19.96    | 17.587   | PASS    |
| 11AC20SISO | Ant1    | 5240    | 20.54    | 17.613   | PASS    |
| 11AC20SISO | Ant1    | 5745    | 17.61    | 17.547   | PASS    |
| 11AC20SISO | Ant1    | 5785    | 17.57    | 17.551   | PASS    |
| 11AC20SISO | Ant1    | 5825    | 17.68    | 17.568   | PASS    |
| 11N40SISO  | Ant1    | 5190    | 41.16    | 35.912   | PASS    |
| 11N40SISO  | Ant1    | 5230    | 39.91    | 35.963   | PASS    |
| 11N40SISO  | Ant1    | 5755    | 36.34    | 35.951   | PASS    |
| 11N40SISO  | Ant1    | 5795    | 35.84    | 35.887   | PASS    |
| 11AC40SISO | Ant1    | 5190    | 40.86    | 35.924   | PASS    |
| 11AC40SISO | Ant1    | 5230    | 40.83    | 36.056   | PASS    |
| 11AC40SISO | Ant1    | 5755    | 36.13    | 35.940   | PASS    |
| 11AC40SISO | Ant1    | 5795    | 33.42    | 35.919   | PASS    |
| 11AC80SISO | Ant1    | 5210    | 79.17    | 75.188   | PASS    |
| 11AC80SISO | Ant1    | 5775    | 72.58    | 75.233   | PASS    |

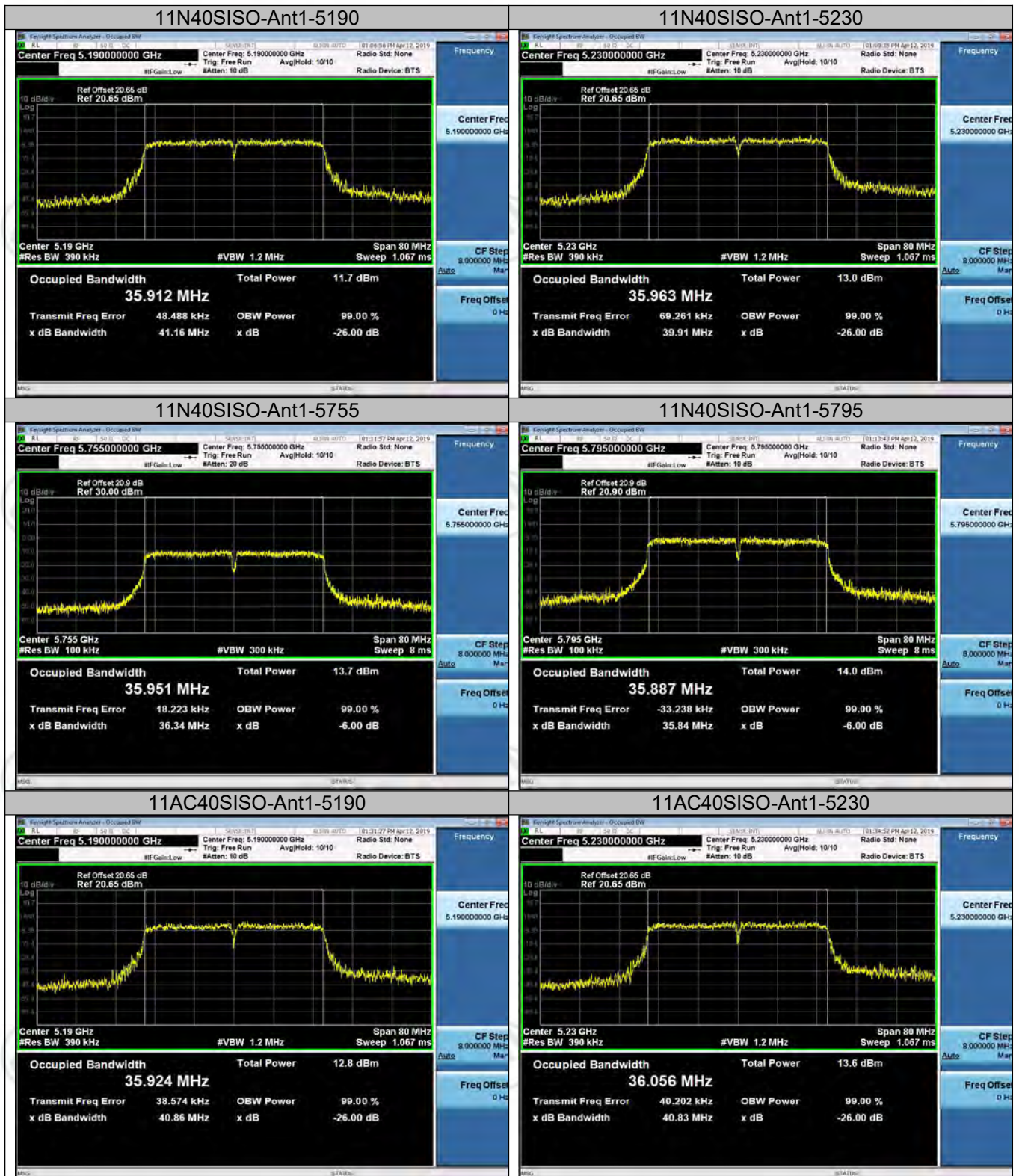
| Test Mode  | Antenna | Channel | EBW[MHz] | OBW[MHz] | Verdict |
|------------|---------|---------|----------|----------|---------|
| 11A        | Ant2    | 5180    | 20.44    | 16.521   | PASS    |
| 11A        | Ant2    | 5200    | 20.09    | 16.449   | PASS    |
| 11A        | Ant2    | 5240    | 20.20    | 16.537   | PASS    |
| 11A        | Ant2    | 5745    | 16.19    | 16.434   | PASS    |
| 11A        | Ant2    | 5785    | 16.08    | 16.420   | PASS    |
| 11A        | Ant2    | 5825    | 16.28    | 16.415   | PASS    |
| 11N20SISO  | Ant2    | 5180    | 20.85    | 17.598   | PASS    |
| 11N20SISO  | Ant2    | 5200    | 20.22    | 17.570   | PASS    |
| 11N20SISO  | Ant2    | 5240    | 19.93    | 17.645   | PASS    |
| 11N20SISO  | Ant2    | 5745    | 16.06    | 17.599   | PASS    |
| 11N20SISO  | Ant2    | 5785    | 17.14    | 17.573   | PASS    |
| 11N20SISO  | Ant2    | 5825    | 17.54    | 17.573   | PASS    |
| 11AC20SISO | Ant2    | 5180    | 20.78    | 17.688   | PASS    |
| 11AC20SISO | Ant2    | 5200    | 20.45    | 17.643   | PASS    |
| 11AC20SISO | Ant2    | 5240    | 20.61    | 17.630   | PASS    |
| 11AC20SISO | Ant2    | 5745    | 17.58    | 17.579   | PASS    |
| 11AC20SISO | Ant2    | 5785    | 17.29    | 17.565   | PASS    |
| 11AC20SISO | Ant2    | 5825    | 17.28    | 17.573   | PASS    |
| 11N40SISO  | Ant2    | 5190    | 41.67    | 36.061   | PASS    |
| 11N40SISO  | Ant2    | 5230    | 41.58    | 36.074   | PASS    |
| 11N40SISO  | Ant2    | 5755    | 35.16    | 36.086   | PASS    |
| 11N40SISO  | Ant2    | 5795    | 35.64    | 36.087   | PASS    |
| 11AC40SISO | Ant2    | 5190    | 40.02    | 36.128   | PASS    |
| 11AC40SISO | Ant2    | 5230    | 40.15    | 36.051   | PASS    |
| 11AC40SISO | Ant2    | 5755    | 34.66    | 36.082   | PASS    |
| 11AC40SISO | Ant2    | 5795    | 35.06    | 36.083   | PASS    |
| 11AC80SISO | Ant2    | 5210    | 80.35    | 75.159   | PASS    |
| 11AC80SISO | Ant2    | 5775    | 71.99    | 75.060   | PASS    |

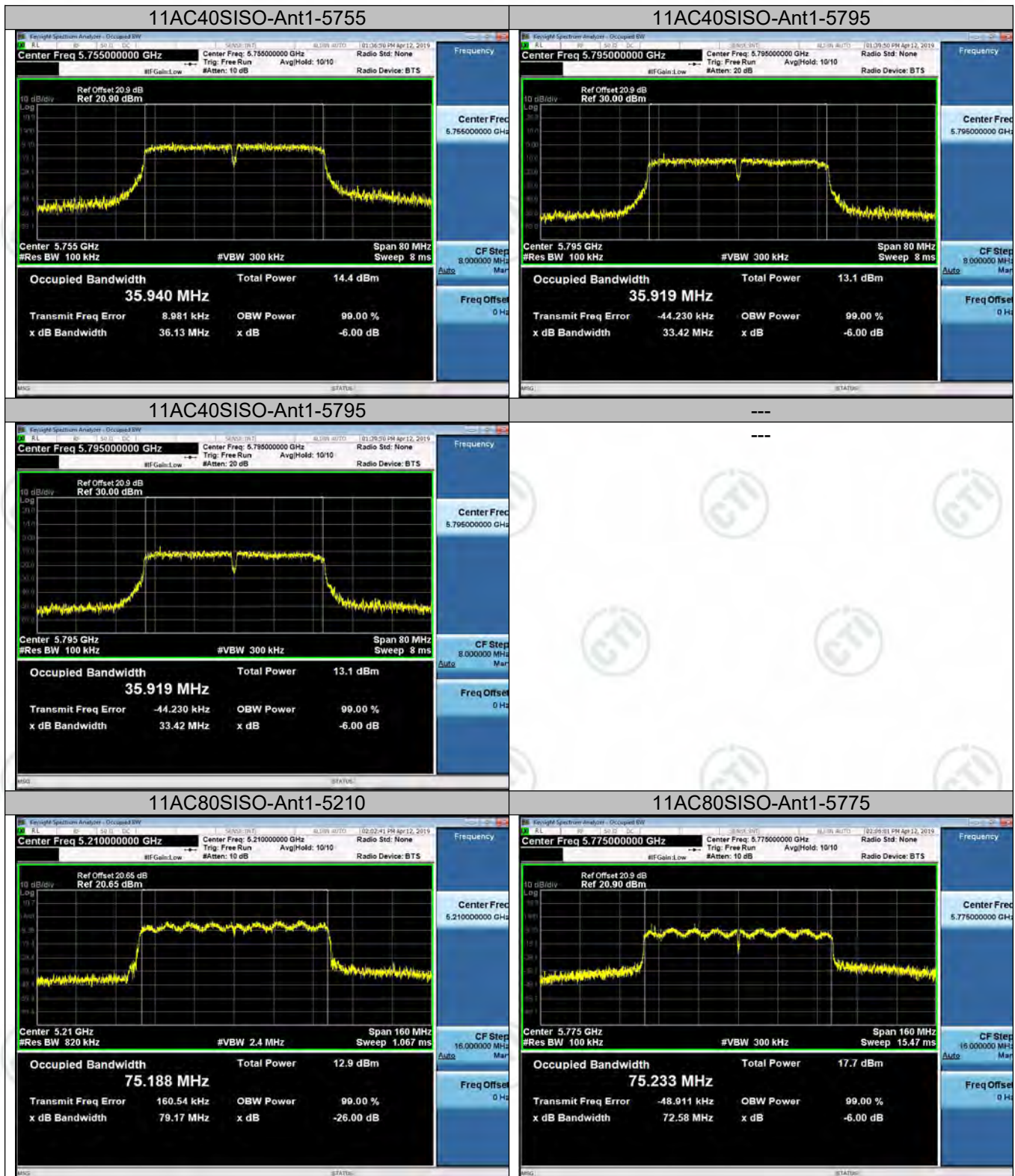
## Test Graph



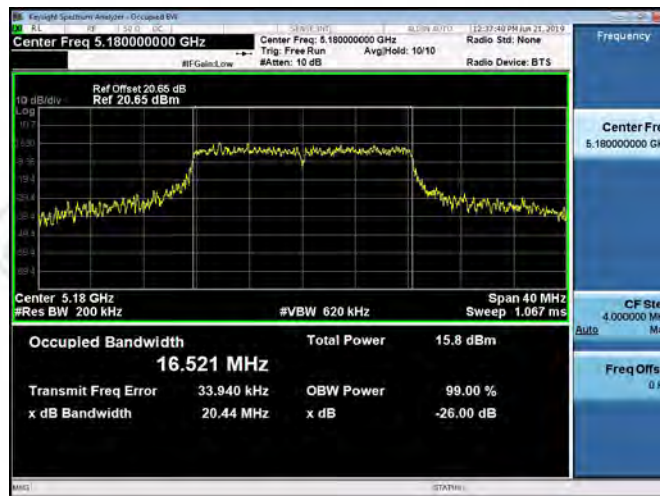




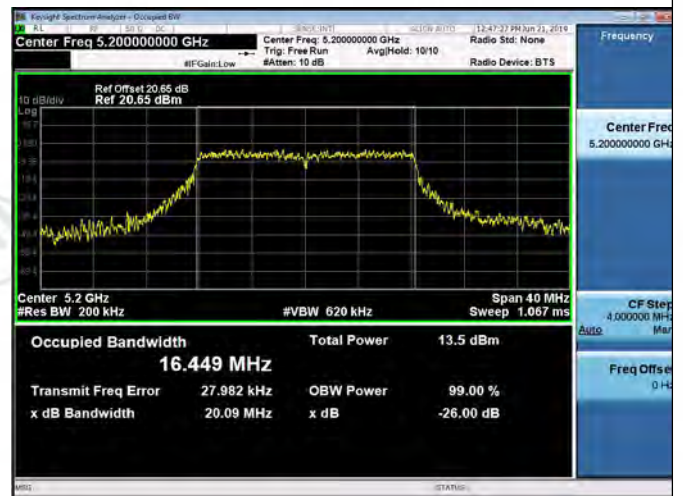




11A-Ant2-5180



11A-Ant2-5200



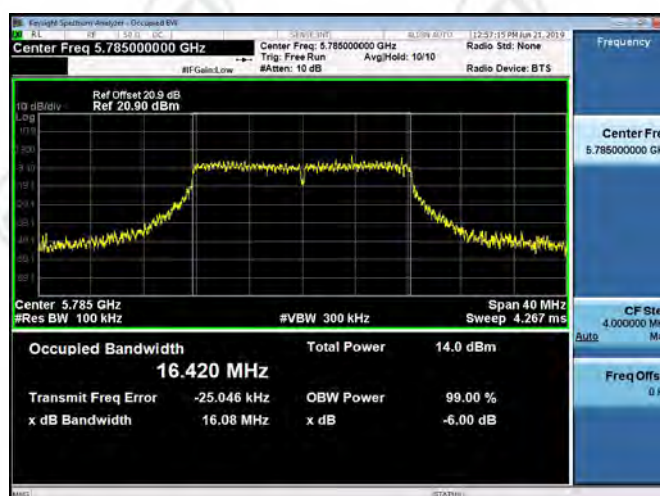
11A-Ant2-5240



11A-Ant2-5745

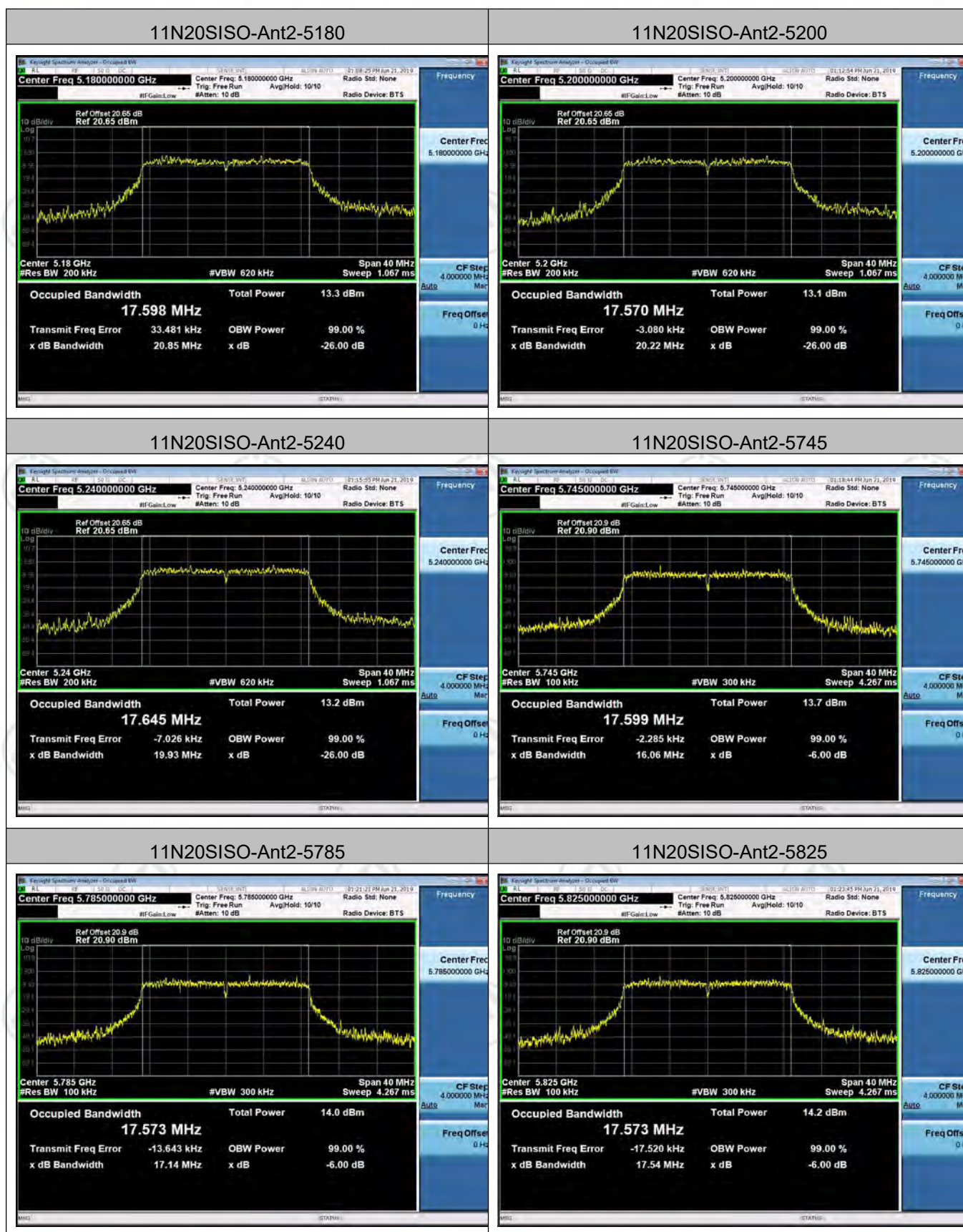


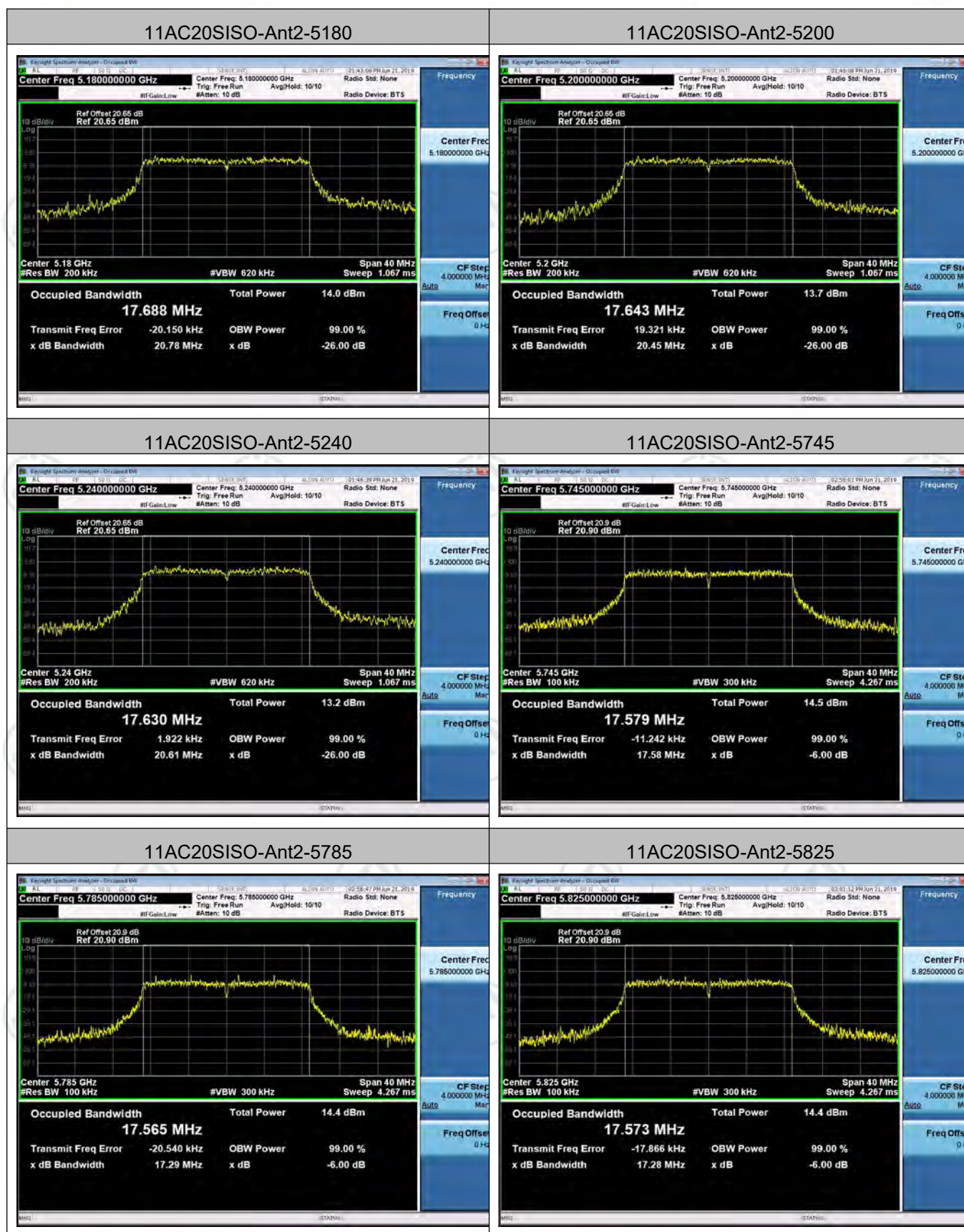
11A-Ant2-5785

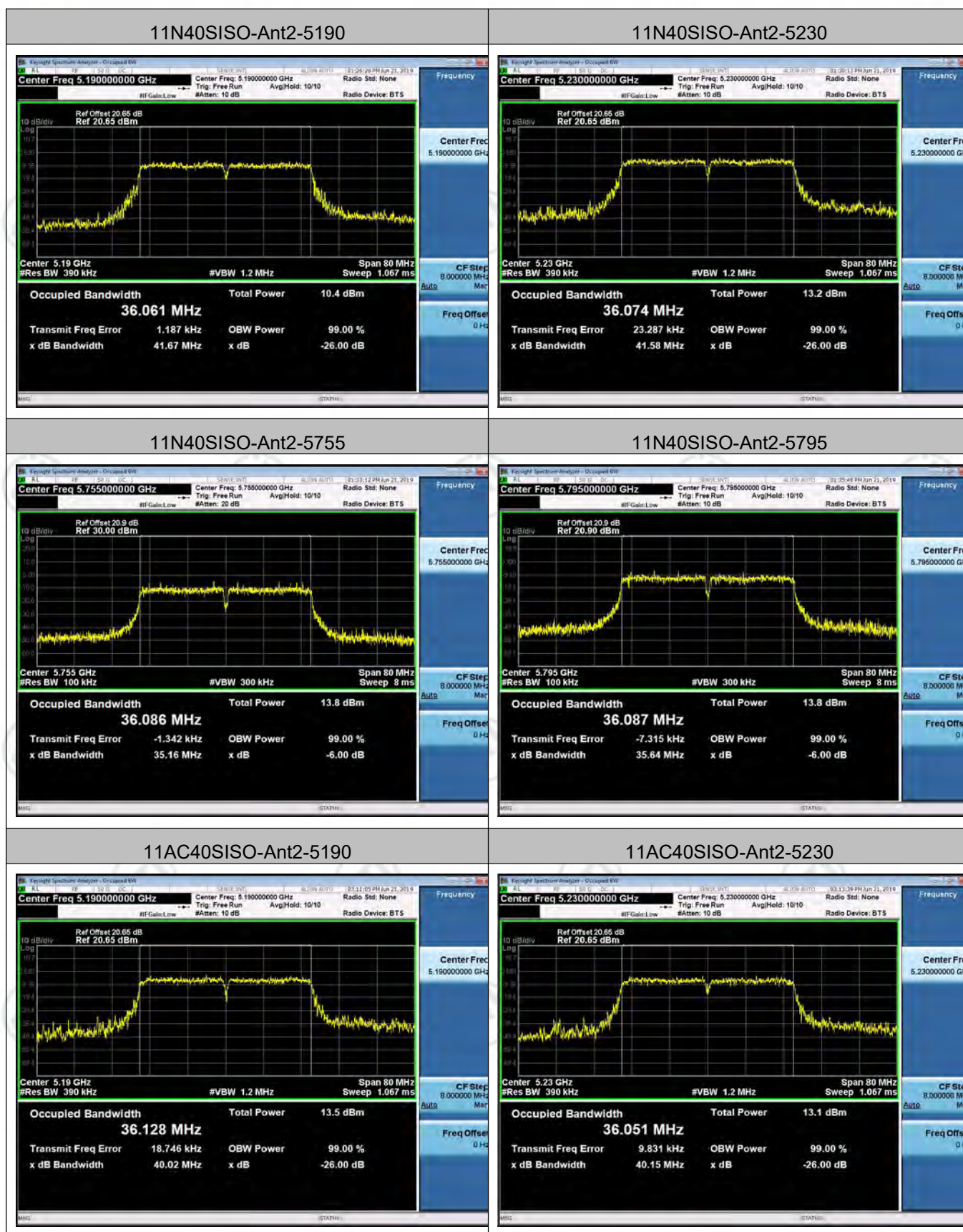


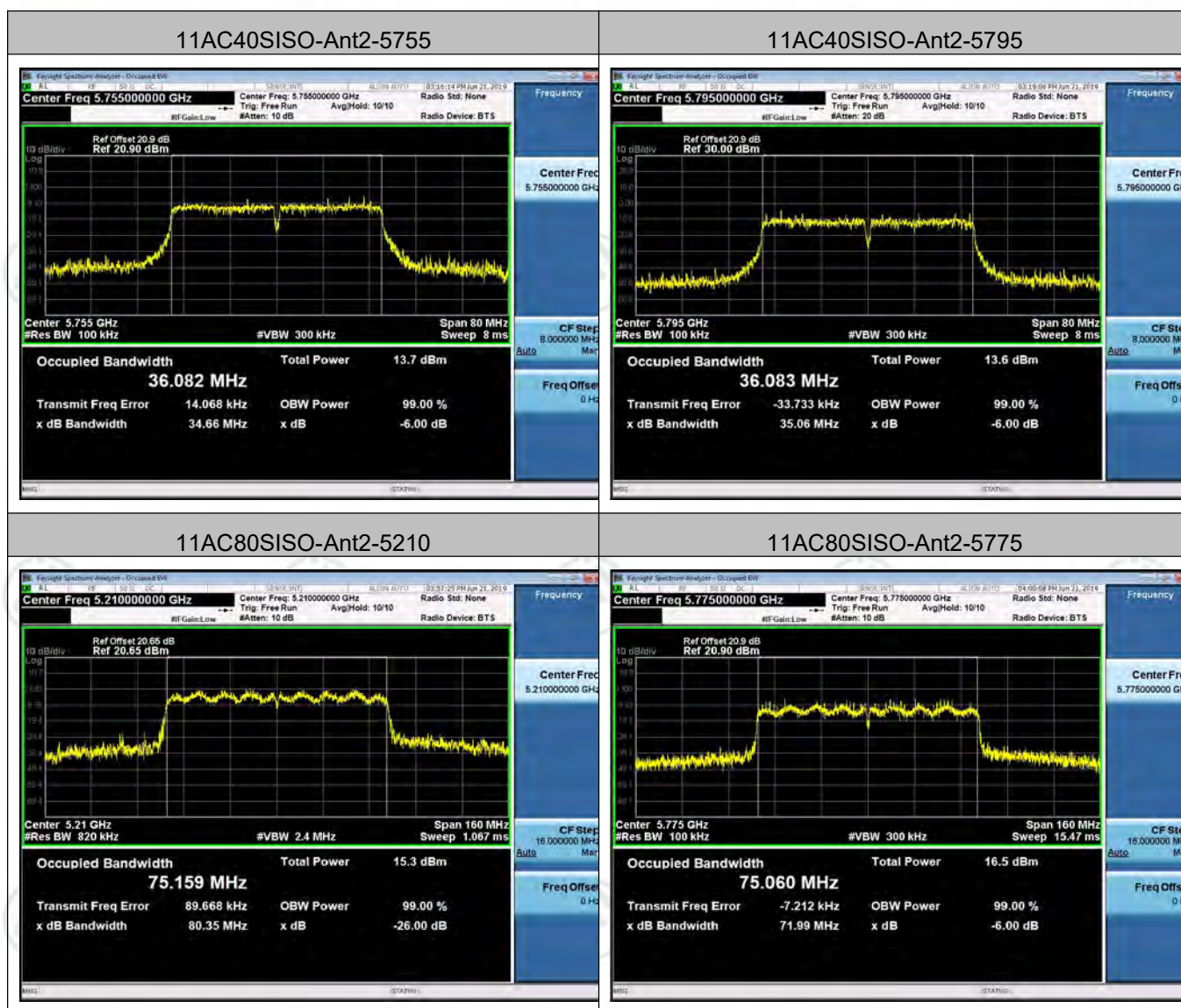
11A-Ant2-5825











## Appendix B): Maximum Conduct Output Power

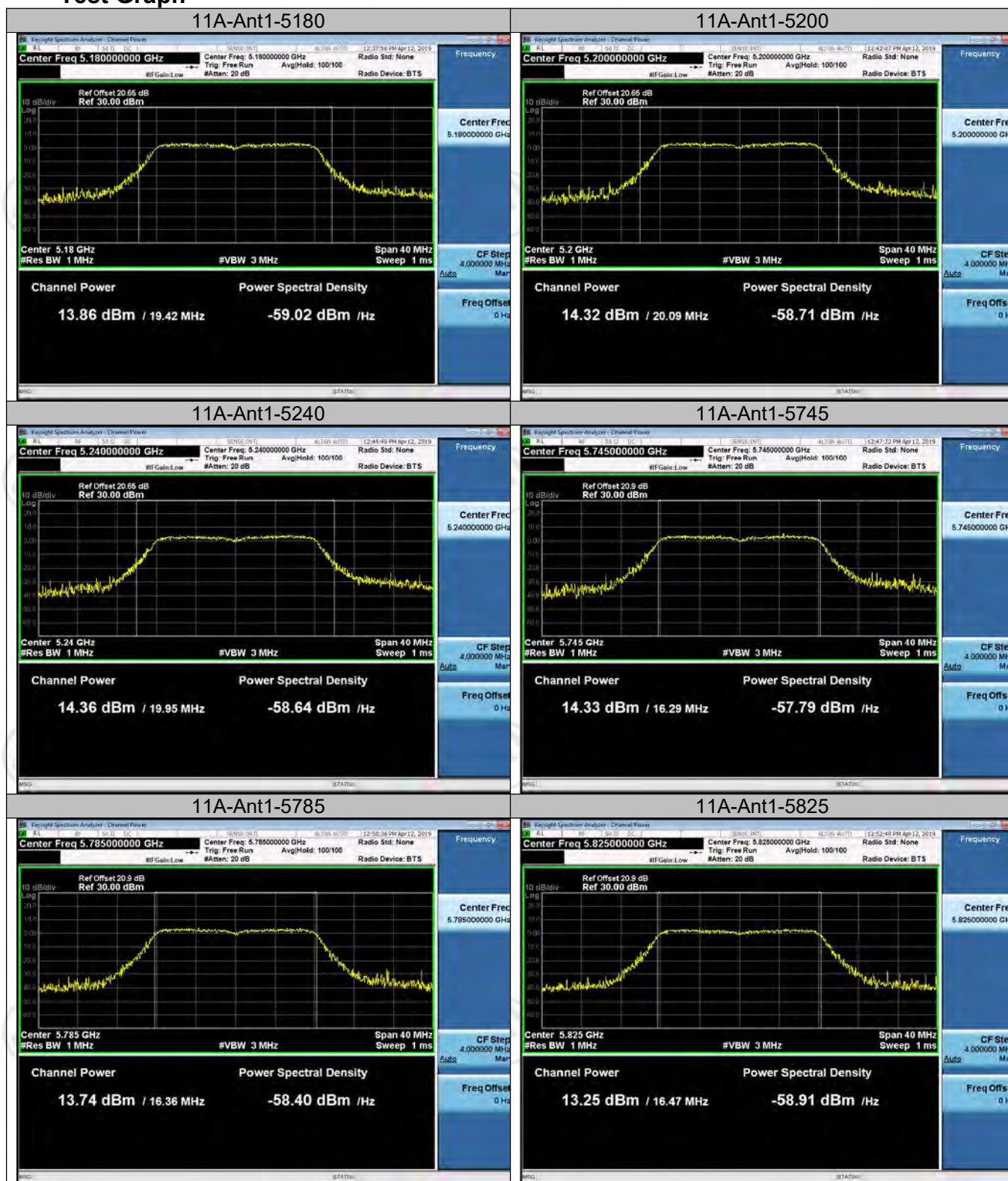
### Result Table

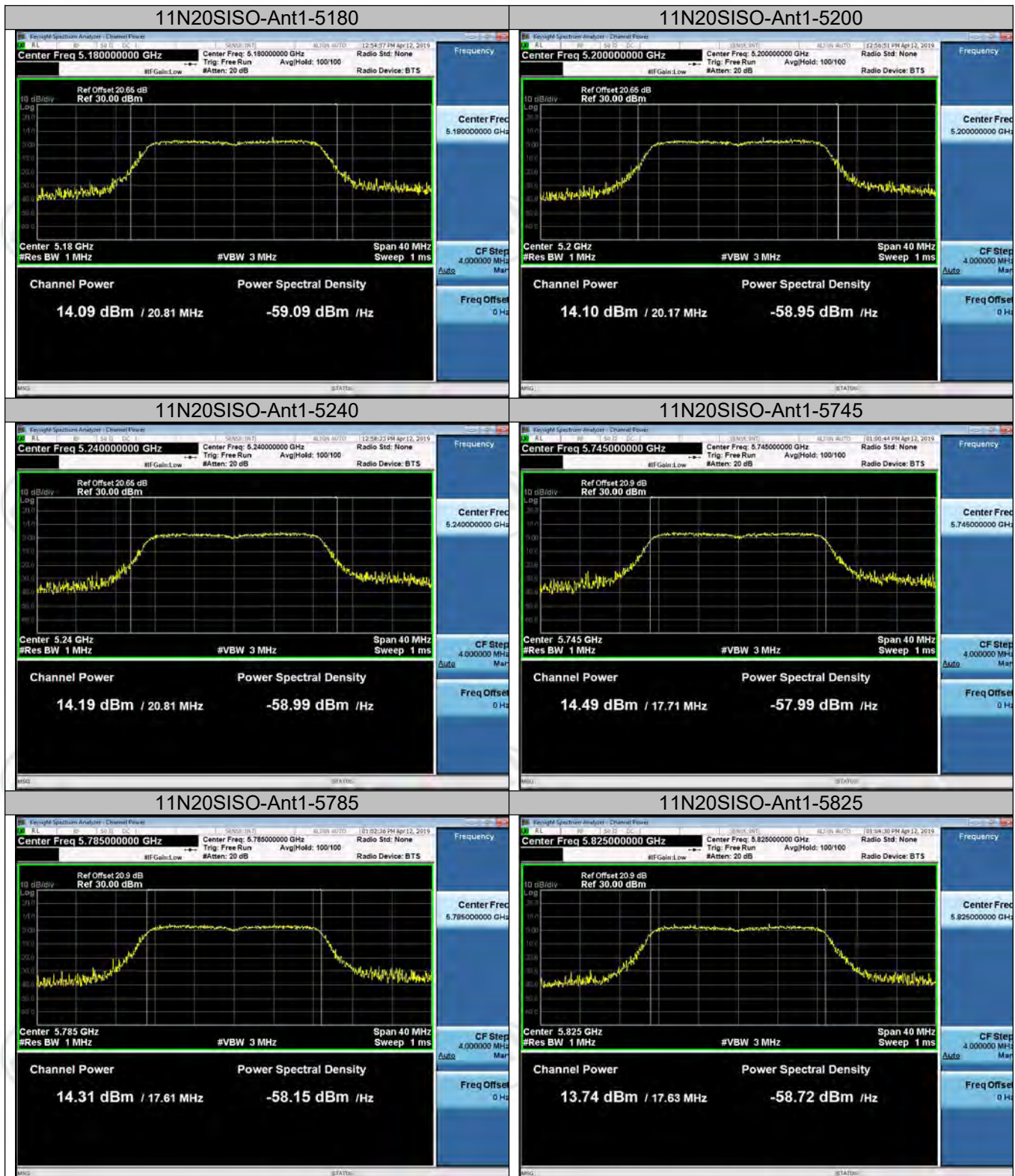
#### WC0PR1601: Antenna 2

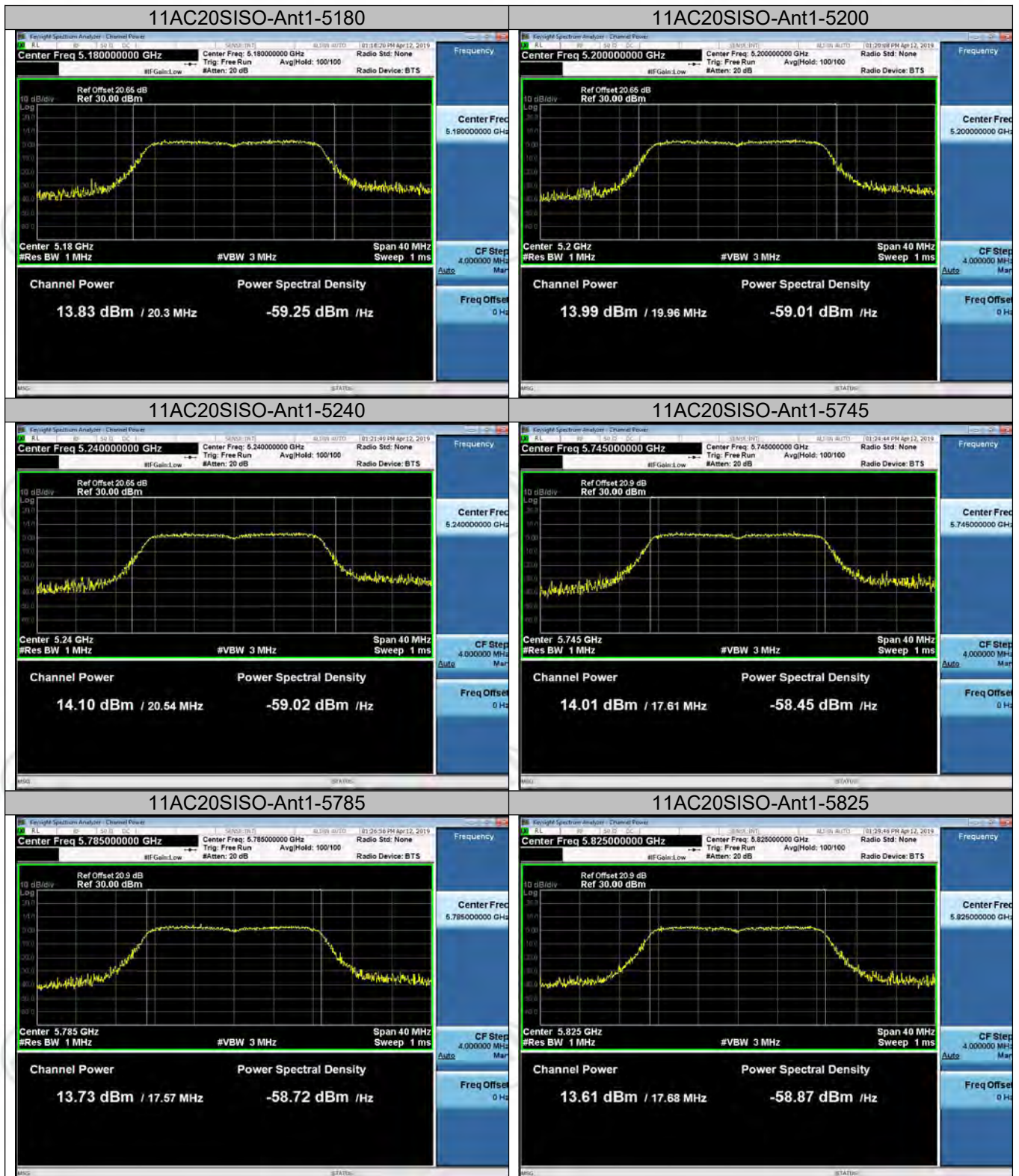
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | Av.Power [dBm] | Verdict |
|------------|---------|---------|------------------|----------------|---------|
| 11A        | Ant1    | 5180    | 13.86            | 13.86          | PASS    |
| 11A        | Ant1    | 5200    | 14.32            | 14.32          | PASS    |
| 11A        | Ant1    | 5240    | 14.36            | 14.36          | PASS    |
| 11A        | Ant1    | 5745    | 14.33            | 14.33          | PASS    |
| 11A        | Ant1    | 5785    | 13.74            | 13.74          | PASS    |
| 11A        | Ant1    | 5825    | 13.25            | 13.25          | PASS    |
| 11N20SISO  | Ant1    | 5180    | 14.09            | 14.09          | PASS    |
| 11N20SISO  | Ant1    | 5200    | 14.1             | 14.1           | PASS    |
| 11N20SISO  | Ant1    | 5240    | 14.19            | 14.19          | PASS    |
| 11N20SISO  | Ant1    | 5745    | 14.49            | 14.49          | PASS    |
| 11N20SISO  | Ant1    | 5785    | 14.31            | 14.31          | PASS    |
| 11N20SISO  | Ant1    | 5825    | 13.74            | 13.74          | PASS    |
| 11AC20SISO | Ant1    | 5180    | 13.83            | 13.83          | PASS    |
| 11AC20SISO | Ant1    | 5200    | 13.99            | 13.99          | PASS    |
| 11AC20SISO | Ant1    | 5240    | 14.1             | 14.1           | PASS    |
| 11AC20SISO | Ant1    | 5745    | 14.01            | 14.01          | PASS    |
| 11AC20SISO | Ant1    | 5785    | 13.73            | 13.73          | PASS    |
| 11AC20SISO | Ant1    | 5825    | 13.61            | 13.61          | PASS    |
| 11N40SISO  | Ant1    | 5190    | 13.18            | 13.18          | PASS    |
| 11N40SISO  | Ant1    | 5230    | 13.1             | 13.1           | PASS    |
| 11N40SISO  | Ant1    | 5755    | 13.93            | 13.93          | PASS    |
| 11N40SISO  | Ant1    | 5795    | 13.51            | 13.51          | PASS    |
| 11AC40SISO | Ant1    | 5190    | 13.34            | 13.34          | PASS    |
| 11AC40SISO | Ant1    | 5230    | 13.41            | 13.41          | PASS    |
| 11AC40SISO | Ant1    | 5755    | 13.89            | 13.89          | PASS    |
| 11AC40SISO | Ant1    | 5795    | 13.37            | 13.37          | PASS    |
| 11AC80SISO | Ant1    | 5210    | 8.27             | 8.27           | PASS    |
| 11AC80SISO | Ant1    | 5775    | 12.26            | 12.26          | PASS    |

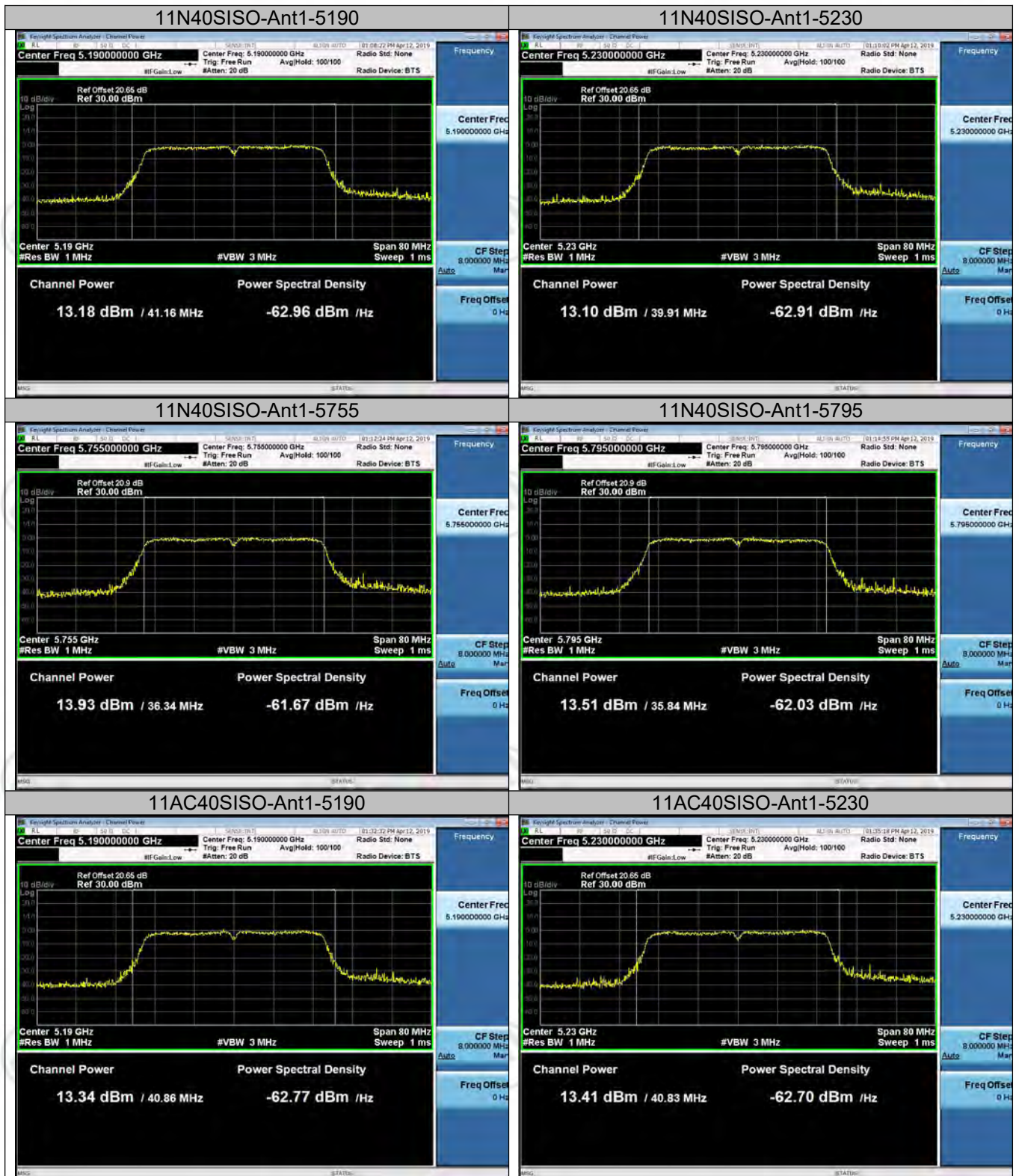
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | Av.Power [dBm] | Verdict |
|------------|---------|---------|------------------|----------------|---------|
| 11A        | Ant2    | 5180    | 13               | 13             | PASS    |
| 11A        | Ant2    | 5200    | 13.44            | 13.44          | PASS    |
| 11A        | Ant2    | 5240    | 13.31            | 13.31          | PASS    |
| 11A        | Ant2    | 5745    | 13.57            | 13.57          | PASS    |
| 11A        | Ant2    | 5785    | 13.7             | 13.7           | PASS    |
| 11A        | Ant2    | 5825    | 13.98            | 13.98          | PASS    |
| 11N20SISO  | Ant2    | 5180    | 13.08            | 13.08          | PASS    |
| 11N20SISO  | Ant2    | 5200    | 13.03            | 13.03          | PASS    |
| 11N20SISO  | Ant2    | 5240    | 13.03            | 13.03          | PASS    |
| 11N20SISO  | Ant2    | 5745    | 13.3             | 13.3           | PASS    |
| 11N20SISO  | Ant2    | 5785    | 13.8             | 13.8           | PASS    |
| 11N20SISO  | Ant2    | 5825    | 14.03            | 14.03          | PASS    |
| 11AC20SISO | Ant2    | 5180    | 13.79            | 13.79          | PASS    |
| 11AC20SISO | Ant2    | 5200    | 13.41            | 13.41          | PASS    |
| 11AC20SISO | Ant2    | 5240    | 13.09            | 13.09          | PASS    |
| 11AC20SISO | Ant2    | 5745    | 14.25            | 14.25          | PASS    |
| 11AC20SISO | Ant2    | 5785    | 13.95            | 13.95          | PASS    |
| 11AC20SISO | Ant2    | 5825    | 14.06            | 14.06          | PASS    |
| 11N40SISO  | Ant2    | 5190    | 13.28            | 13.28          | PASS    |
| 11N40SISO  | Ant2    | 5230    | 13.18            | 13.18          | PASS    |
| 11N40SISO  | Ant2    | 5755    | 13.64            | 13.64          | PASS    |
| 11N40SISO  | Ant2    | 5795    | 13.62            | 13.62          | PASS    |
| 11AC40SISO | Ant2    | 5190    | 13.38            | 13.38          | PASS    |
| 11AC40SISO | Ant2    | 5230    | 13.19            | 13.19          | PASS    |
| 11AC40SISO | Ant2    | 5755    | 13.59            | 13.59          | PASS    |
| 11AC40SISO | Ant2    | 5795    | 13.67            | 13.67          | PASS    |
| 11AC80SISO | Ant2    | 5210    | 10.32            | 10.32          | PASS    |
| 11AC80SISO | Ant2    | 5775    | 10.82            | 10.82          | PASS    |

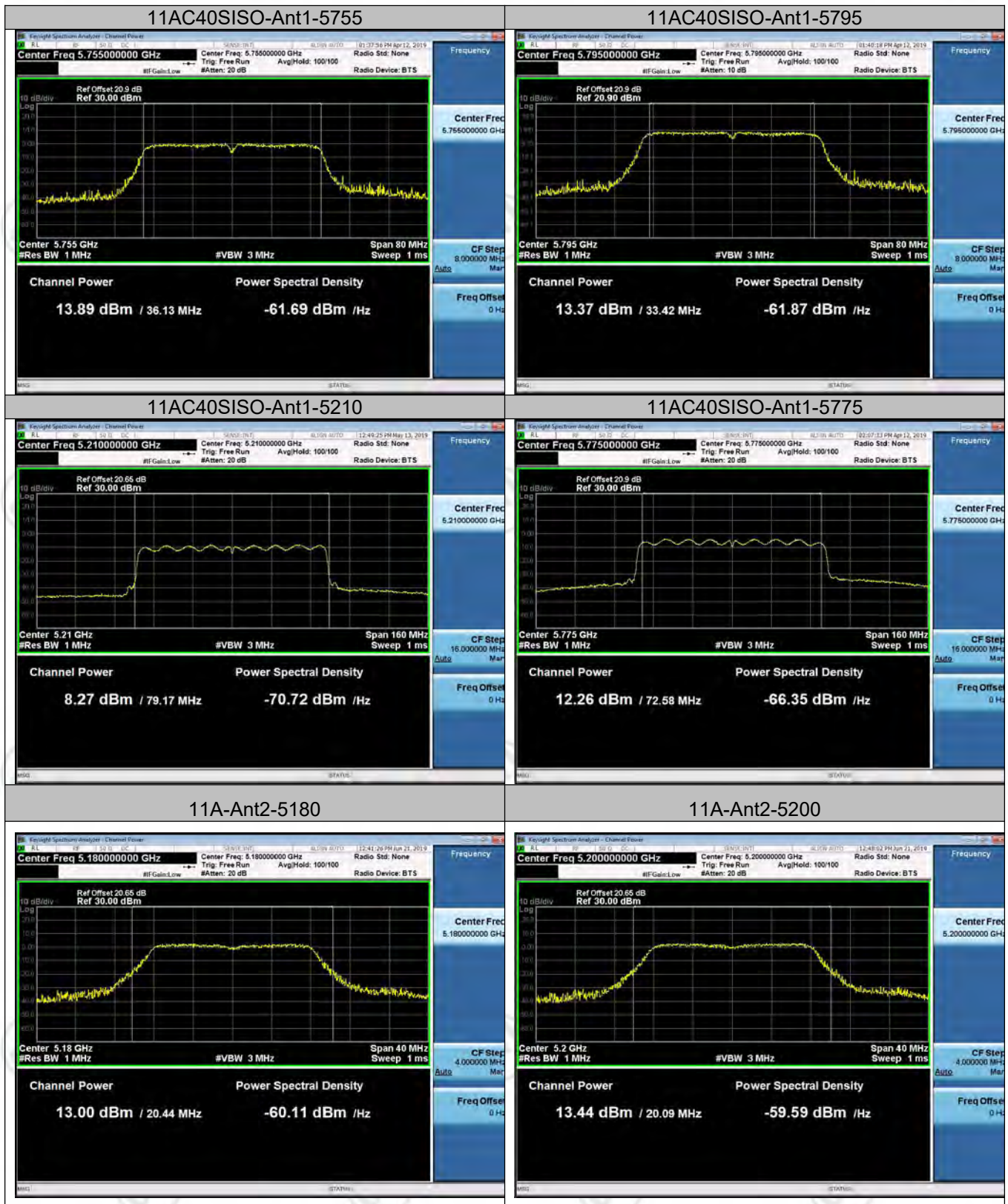
## Test Graph



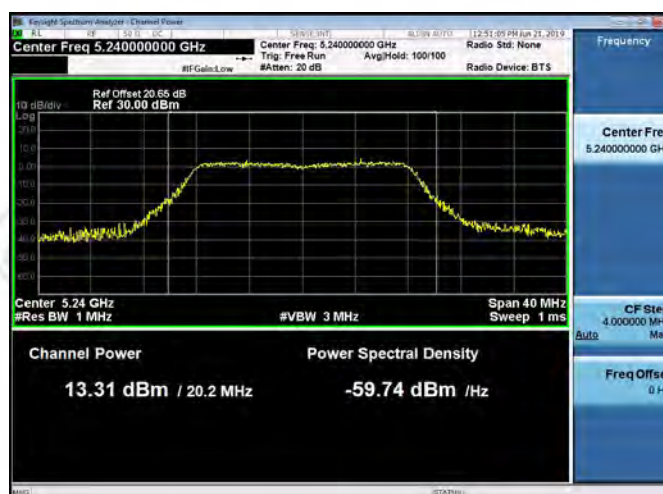




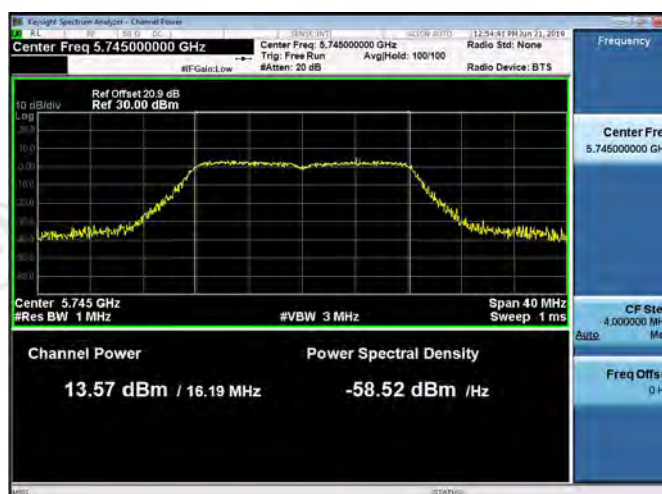




11A-Ant2-5240



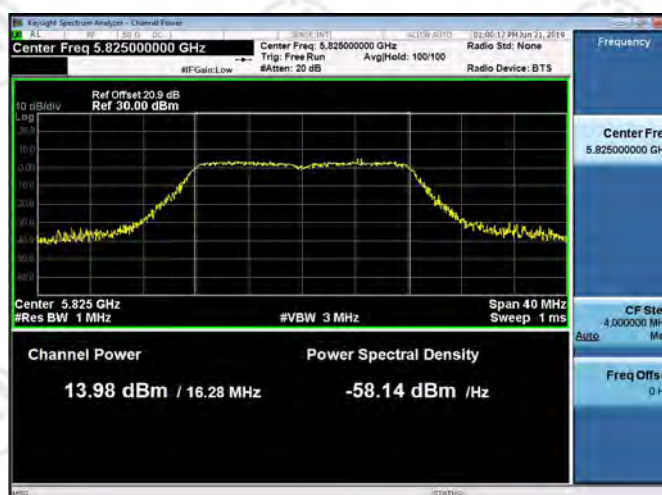
11A-Ant2-5745



11A-Ant2-5785



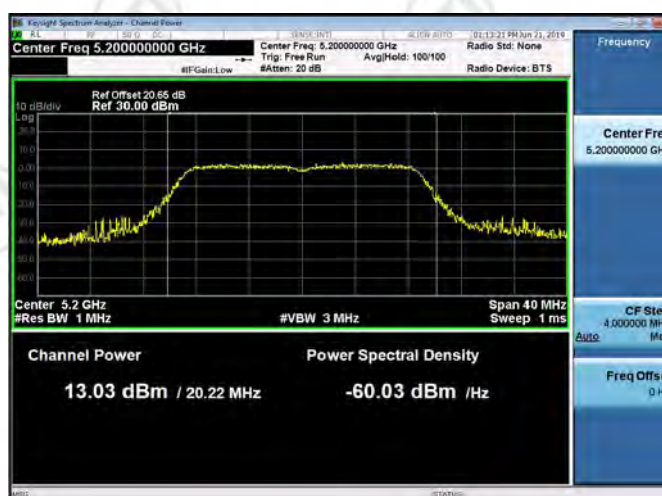
11A-Ant2-5825



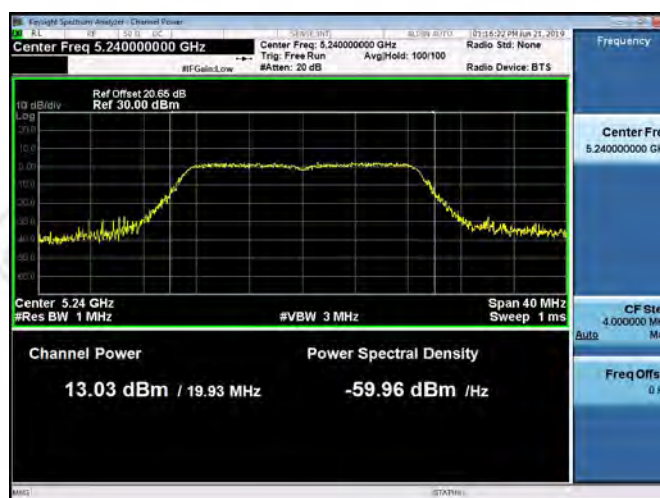
11N20SISO-Ant2-5180



11N20SISO-Ant2-5200



11N20SISO-Ant2-5240



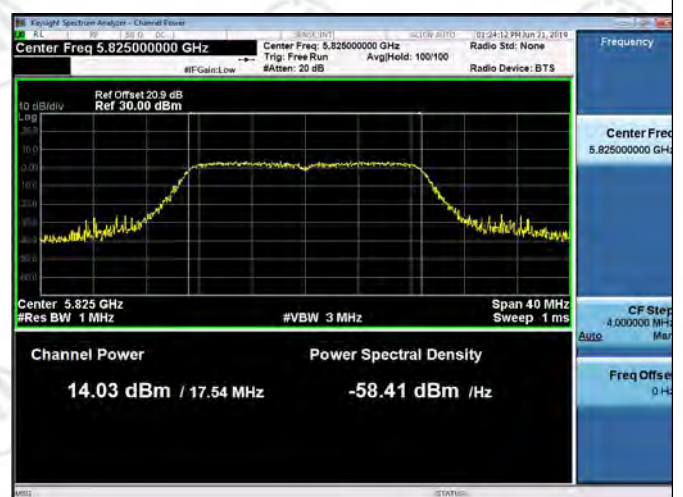
11N20SISO-Ant2-5745



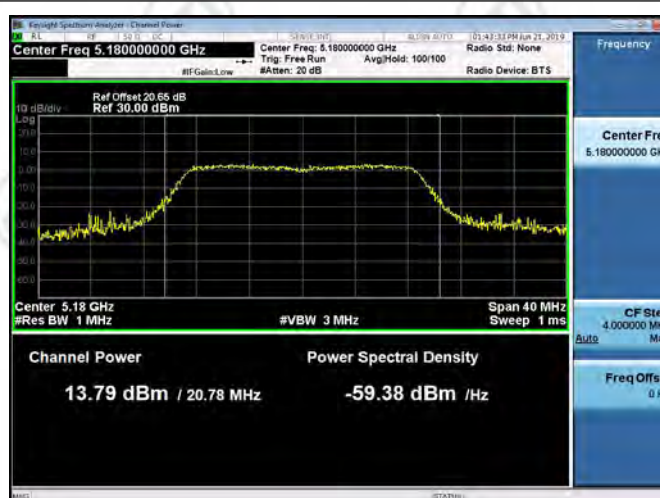
11N20SISO-Ant2-5785



11N20SISO-Ant2-5825

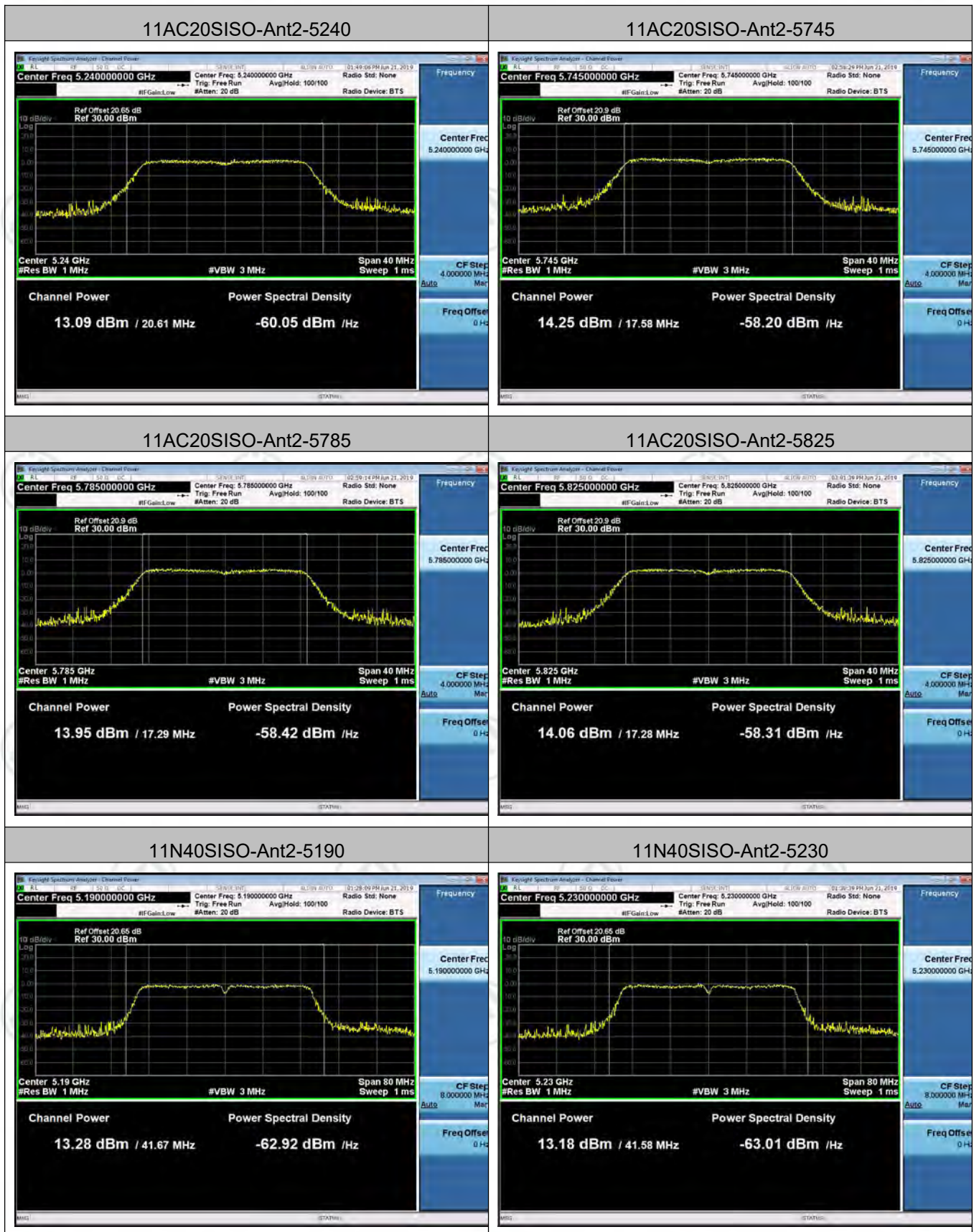


11AC20SISO-Ant2-5180



11AC20SISO-Ant2-5200

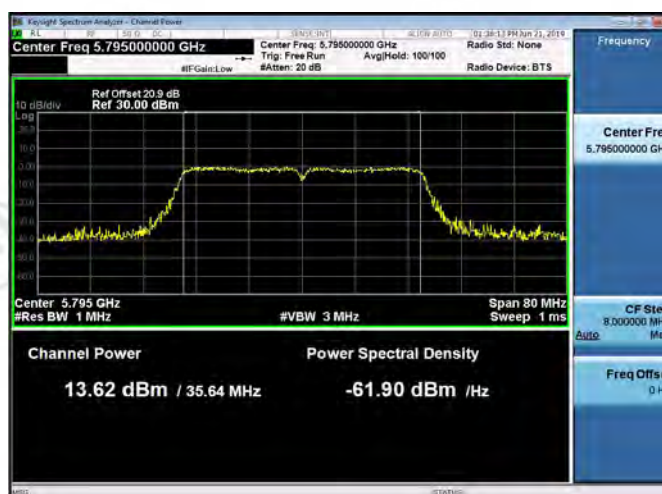




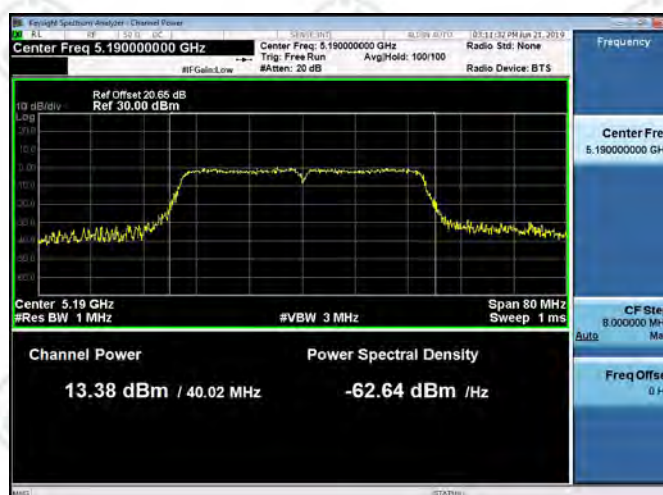
11N40SISO-Ant2-5755



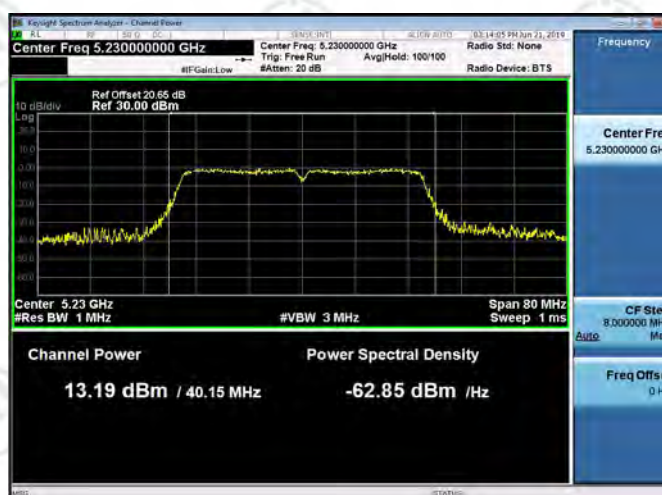
11N40SISO-Ant2-5795



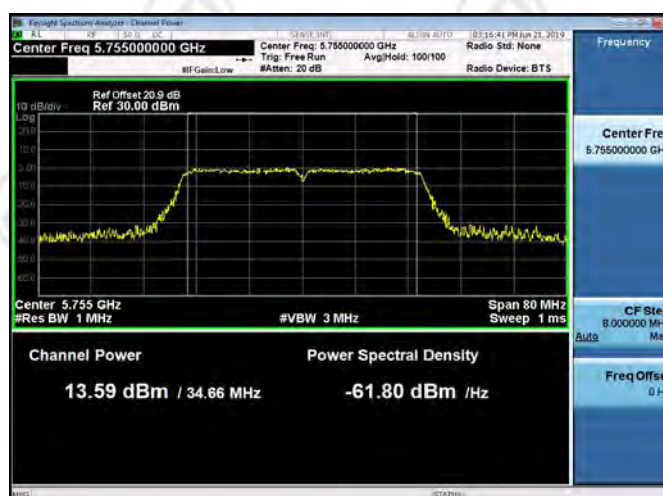
11AC40SISO-Ant2-5190



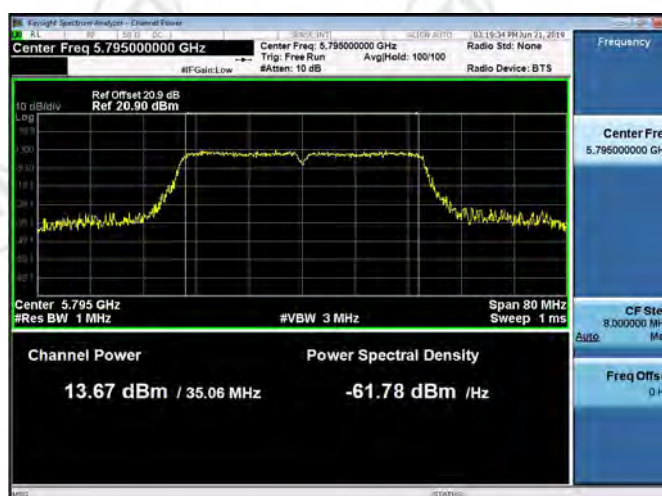
11AC40SISO-Ant2-5230

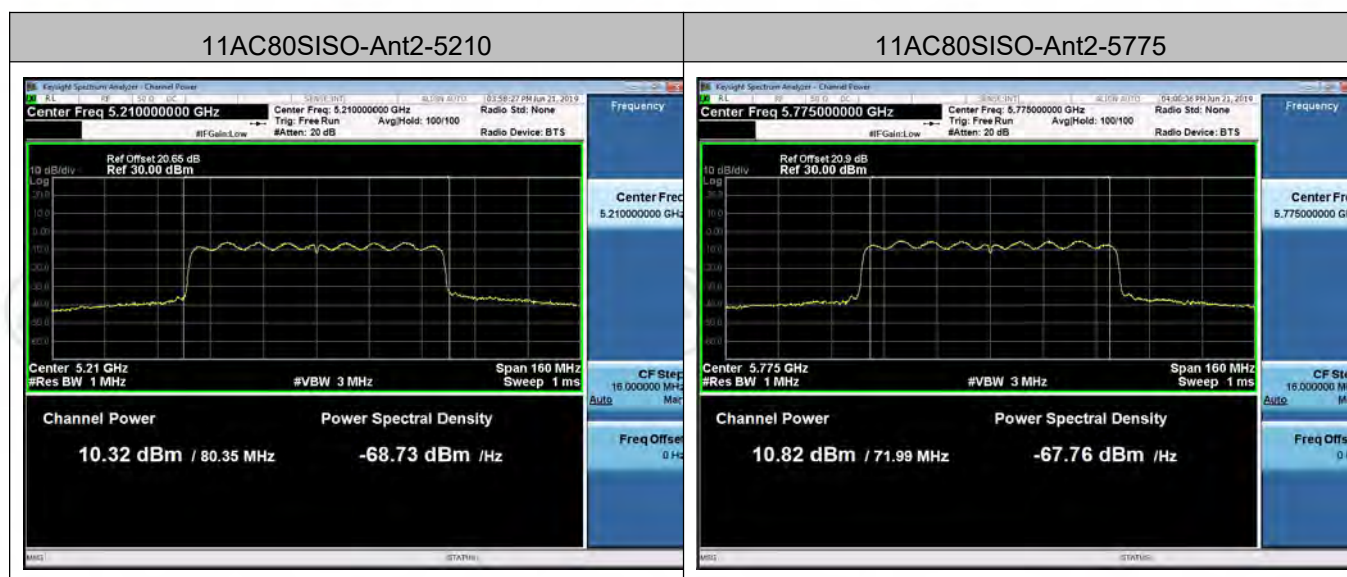


11AC40SISO-Ant2-5755



11AC40SISO-Ant2-5795





## Appendix C): Power Spectral Density

### Result Table

#### WC0PR1601: Antenna 2

| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz]    | Verdict |
|-----------|---------|---------|------------------|------------------|---------|
| 11A       | Ant1    | 5180    | 6.74             | 6.74             | PASS    |
| 11A       | Ant1    | 5200    | 6.80             | 6.80             | PASS    |
| 11A       | Ant1    | 5240    | 6.90             | 6.90             | PASS    |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11A       | Ant1    | 5745    | 1.50             | 3.71             | PASS    |
| 11A       | Ant1    | 5785    | 0.56             | 2.78             | PASS    |
| 11A       | Ant1    | 5825    | 0.26             | 2.48             | PASS    |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz]    | Verdict |
| 11N20SISO | Ant1    | 5180    | 6.41             | 6.41             | PASS    |
| 11N20SISO | Ant1    | 5200    | 6.58             | 6.58             | PASS    |
| 11N20SISO | Ant1    | 5240    | 6.49             | 6.49             | PASS    |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11N20SISO | Ant1    | 5745    | 1.68             | 3.90             | PASS    |
| 11N20SISO | Ant1    | 5785    | 1.19             | 3.41             | PASS    |
| 11N20SISO | Ant1    | 5825    | 0.58             | 2.80             | PASS    |

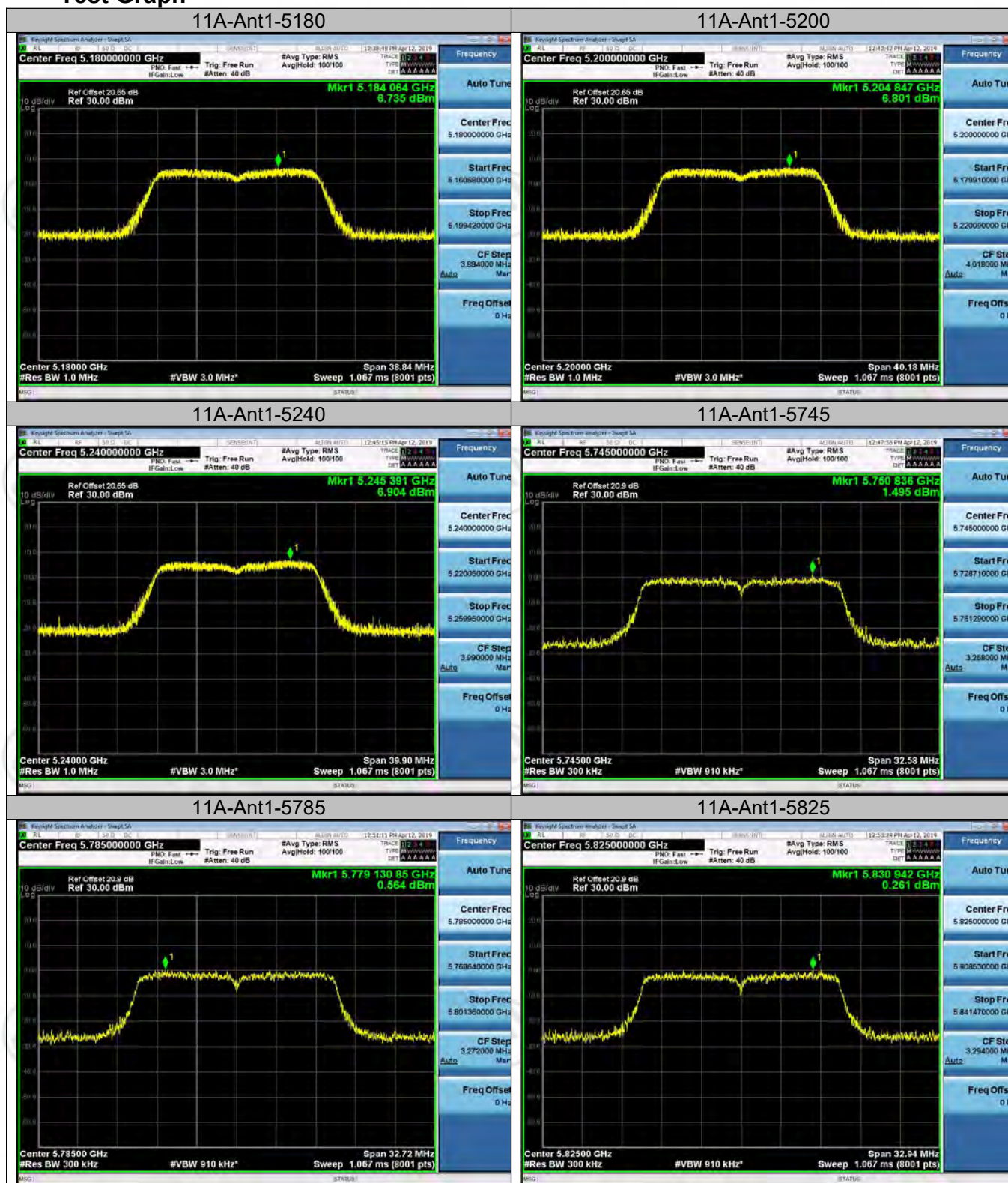
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz]    | Verdict |
|------------|---------|---------|------------------|------------------|---------|
| 11N40SISO  | Ant1    | 5190    | 2.87             | 2.87             | PASS    |
| 11N40SISO  | Ant1    | 5230    | 2.39             | 2.39             | PASS    |
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11N40SISO  | Ant1    | 5755    | -2.39            | -0.17            | PASS    |
| 11N40SISO  | Ant1    | 5795    | -2.66            | -0.43            | PASS    |
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz]    | Verdict |
| 11AC20SISO | Ant1    | 5180    | 5.99             | 5.99             | PASS    |
| 11AC20SISO | Ant1    | 5200    | 6.81             | 6.81             | PASS    |
| 11AC20SISO | Ant1    | 5240    | 6.82             | 6.82             | PASS    |
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11AC20SISO | Ant1    | 5745    | 1.04             | 3.26             | PASS    |
| 11AC20SISO | Ant1    | 5785    | 0.39             | 2.61             | PASS    |
| 11AC20SISO | Ant1    | 5825    | 0.45             | 2.67             | PASS    |

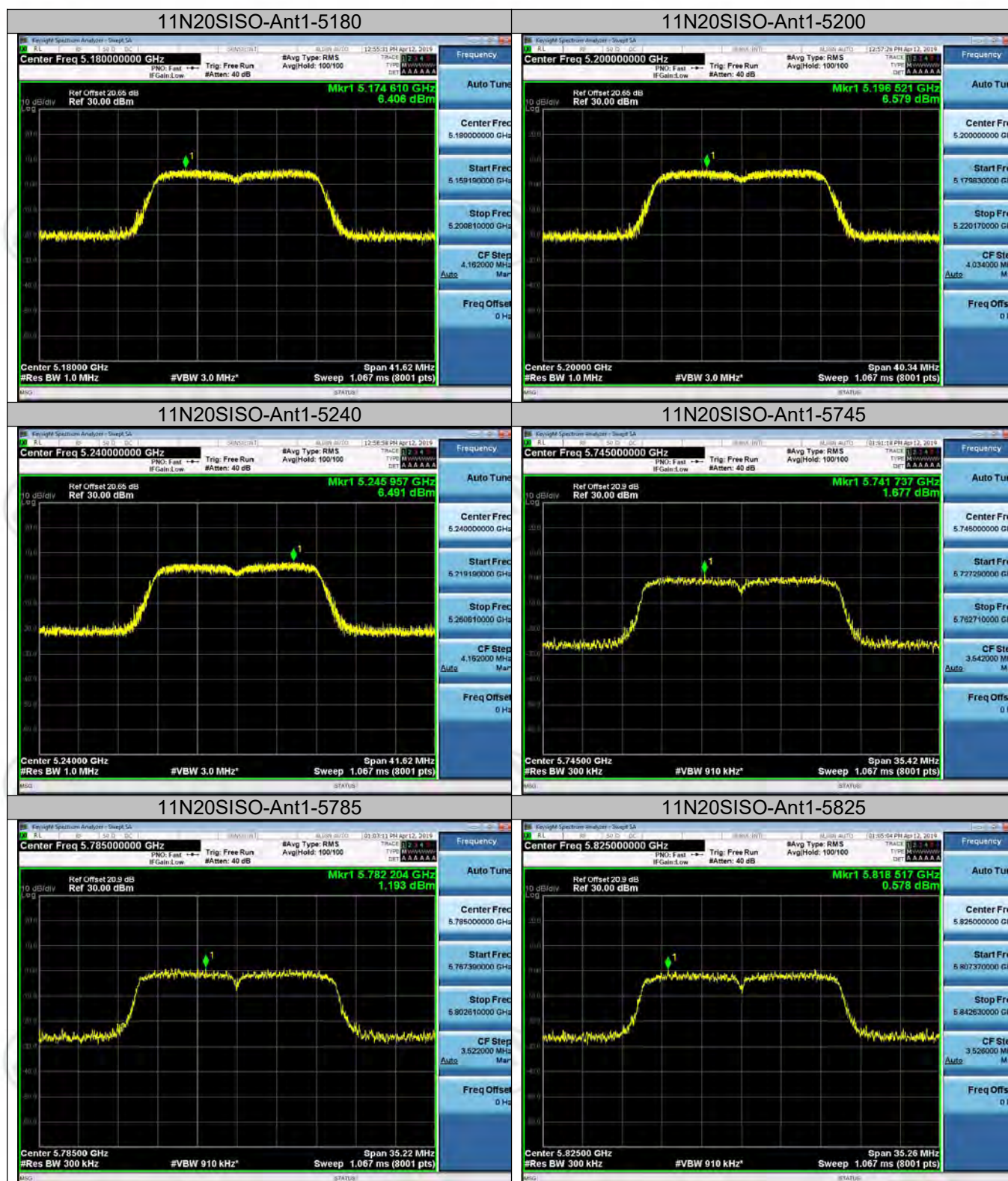
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz]    | Verdict |
|------------|---------|---------|------------------|------------------|---------|
| 11AC40SISO | Ant1    | 5190    | 2.54             | 2.54             | PASS    |
| 11AC40SISO | Ant1    | 5230    | 3.82             | 3.82             | PASS    |
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11AC40SISO | Ant1    | 5755    | -2.70            | -0.48            | PASS    |
| 11AC40SISO | Ant1    | 5795    | -2.95            | -0.73            | PASS    |
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz]    | Verdict |
| 11AC80SISO | Ant1    | 5210    | 0.16             | 0.16             | PASS    |
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11AC80SISO | Ant1    | 5775    | -1.99            | 0.23             | PASS    |

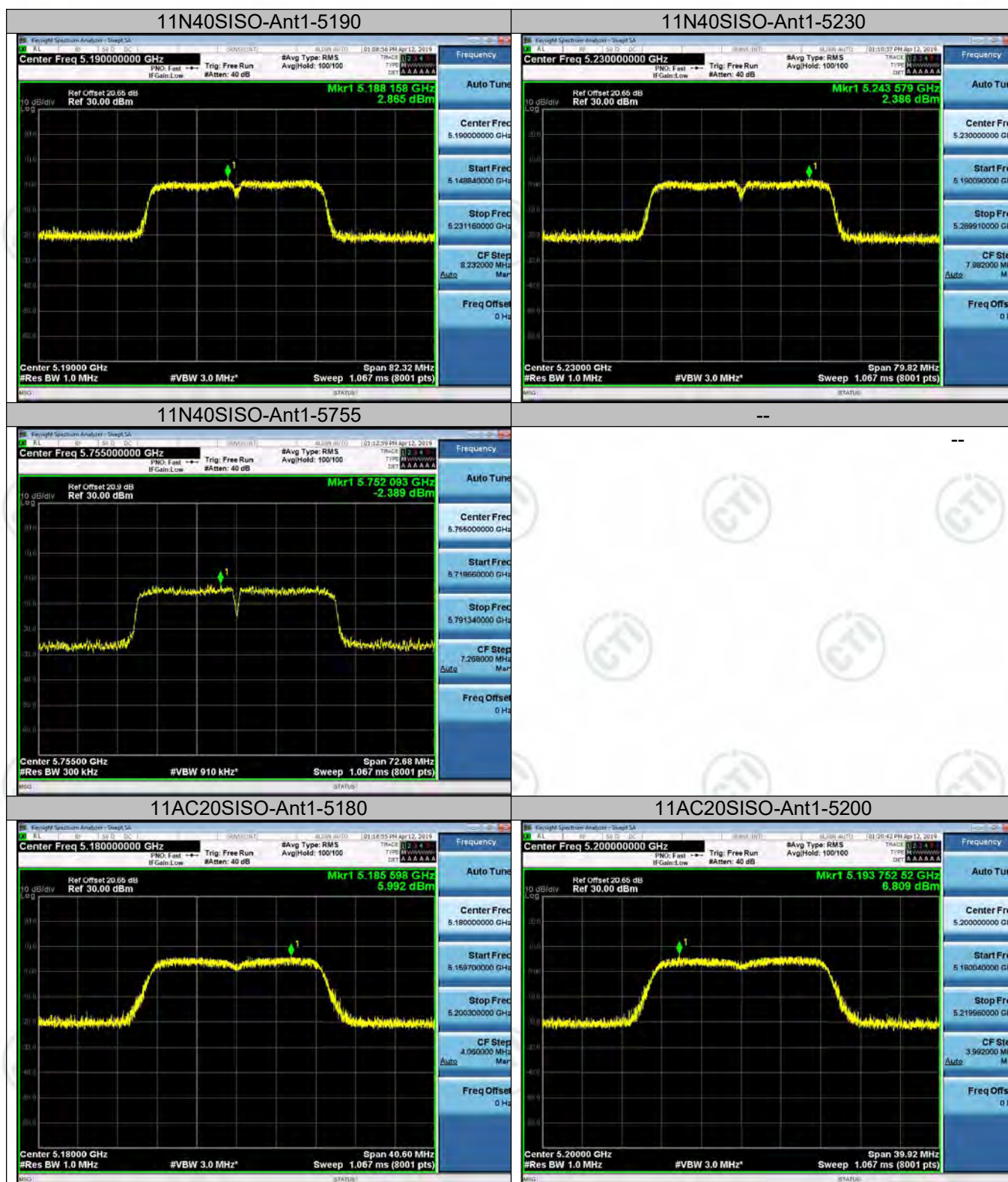
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz]    | Verdict |
|-----------|---------|---------|------------------|------------------|---------|
| 11A       | Ant2    | 5180    | 5.54             | 5.54             | PASS    |
| 11A       | Ant2    | 5200    | 6.48             | 6.48             | PASS    |
| 11A       | Ant2    | 5240    | 6.34             | 6.34             | PASS    |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11A       | Ant2    | 5745    | 0.30             | 2.52             | PASS    |
| 11A       | Ant2    | 5785    | 0.09             | 2.30             | PASS    |
| 11A       | Ant2    | 5825    | 0.79             | 3.00             | PASS    |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz]    | Verdict |
| 11N20SISO | Ant2    | 5180    | 5.43             | 5.43             | PASS    |
| 11N20SISO | Ant2    | 5200    | 5.67             | 5.67             | PASS    |
| 11N20SISO | Ant2    | 5240    | 5.57             | 5.57             | PASS    |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11N20SISO | Ant2    | 5745    | -0.02            | 2.20             | PASS    |
| 11N20SISO | Ant2    | 5785    | 0.27             | 2.49             | PASS    |
| 11N20SISO | Ant2    | 5825    | 0.49             | 2.71             | PASS    |

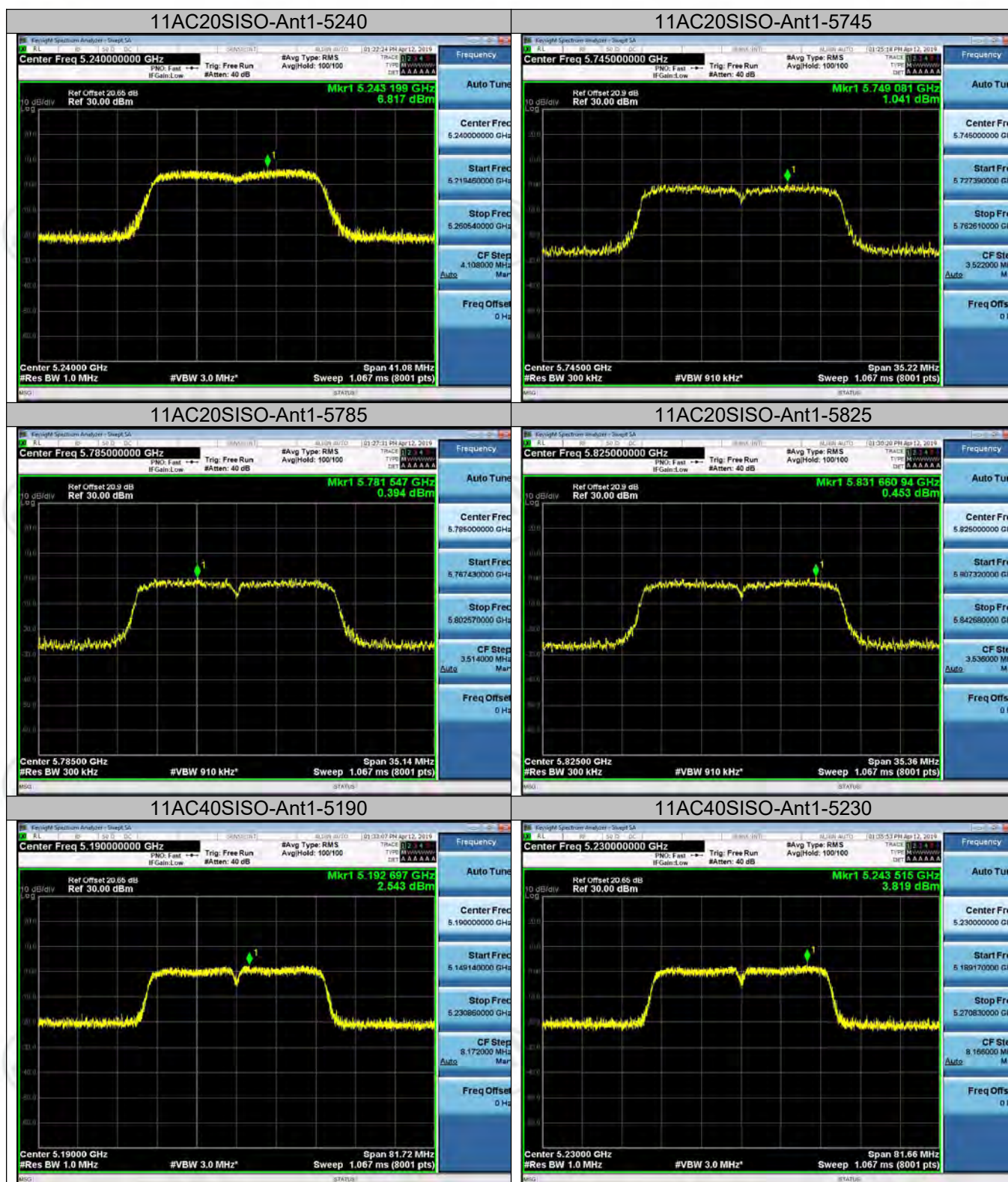
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz]    | Verdict |
|------------|---------|---------|------------------|------------------|---------|
| 11N40SISO  | Ant2    | 5190    | 3.14             | 3.14             | PASS    |
| 11N40SISO  | Ant2    | 5230    | 2.09             | 2.09             | PASS    |
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11N40SISO  | Ant2    | 5755    | -2.86            | -0.64            | PASS    |
| 11N40SISO  | Ant2    | 5795    | -3.23            | -1.01            | PASS    |
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz]    | Verdict |
| 11AC20SISO | Ant2    | 5180    | 5.93             | 5.93             | PASS    |
| 11AC20SISO | Ant2    | 5200    | 5.41             | 5.41             | PASS    |
| 11AC20SISO | Ant2    | 5240    | 5.27             | 5.27             | PASS    |
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11AC20SISO | Ant2    | 5745    | 0.71             | 2.93             | PASS    |
| 11AC20SISO | Ant2    | 5785    | 0.59             | 2.81             | PASS    |
| 11AC20SISO | Ant2    | 5825    | 0.43             | 2.65             | PASS    |
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz]    | Verdict |
| 11AC40SISO | Ant2    | 5190    | 2.63             | 2.63             | PASS    |
| 11AC40SISO | Ant2    | 5230    | 2.49             | 2.49             | PASS    |
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11AC40SISO | Ant2    | 5755    | -2.71            | -0.49            | PASS    |
| 11AC40SISO | Ant2    | 5795    | -3.13            | -0.91            | PASS    |
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz]    | Verdict |
| 11AC80SISO | Ant2    | 5210    | 2.19             | 2.19             | PASS    |
| Test Mode  | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11AC80SISO | Ant2    | 5775    | -2.39            | -0.17            | PASS    |

## Test Graph



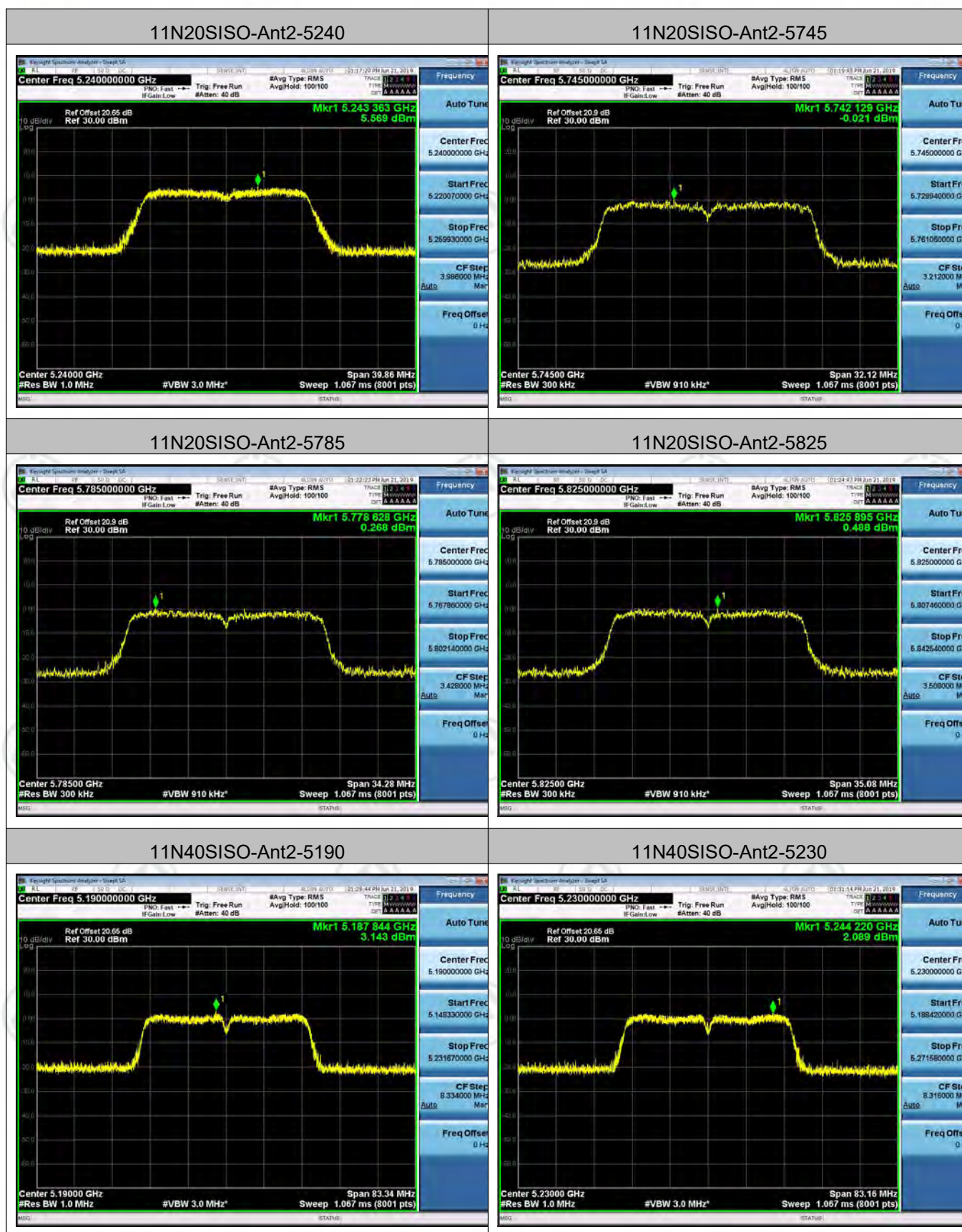


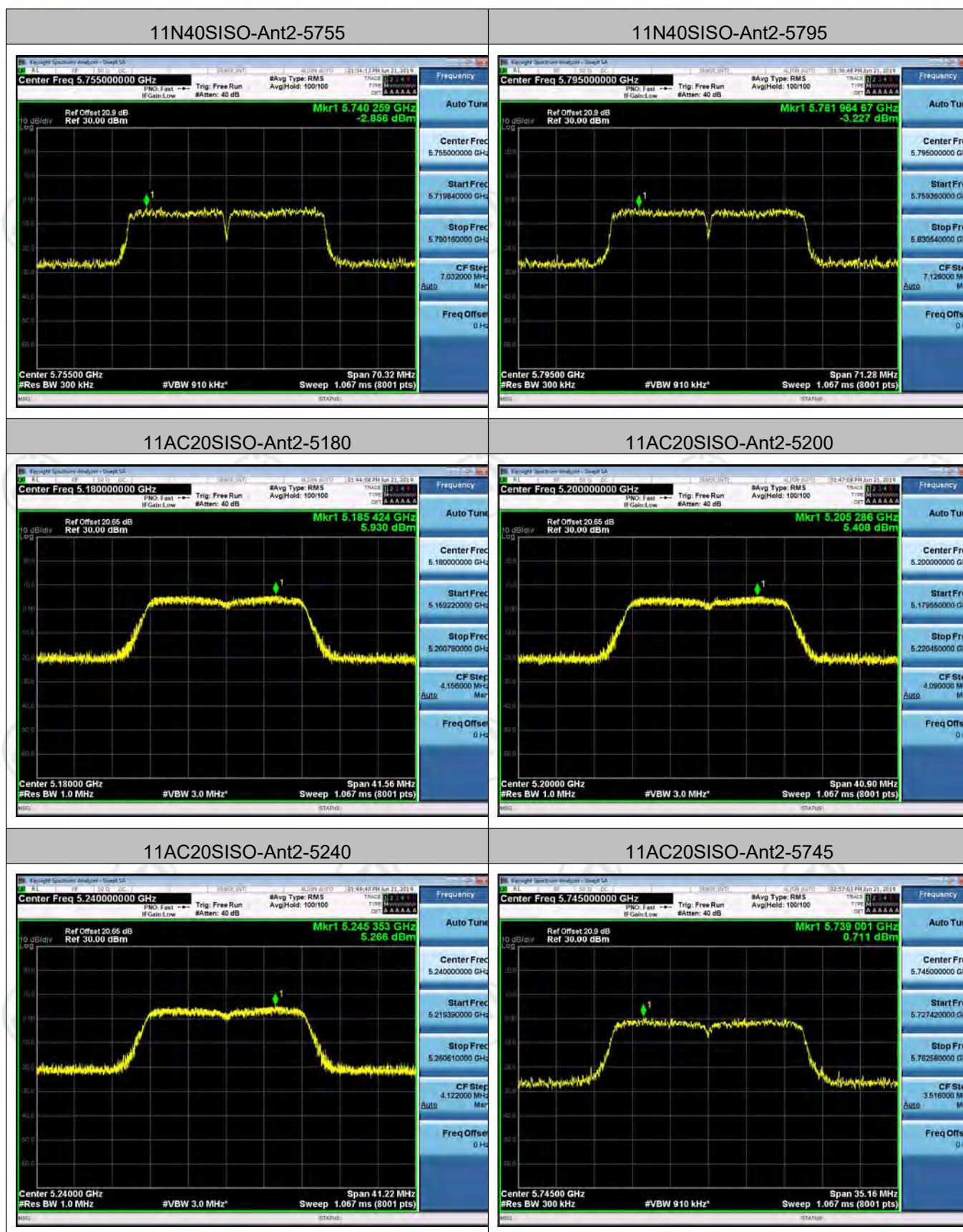




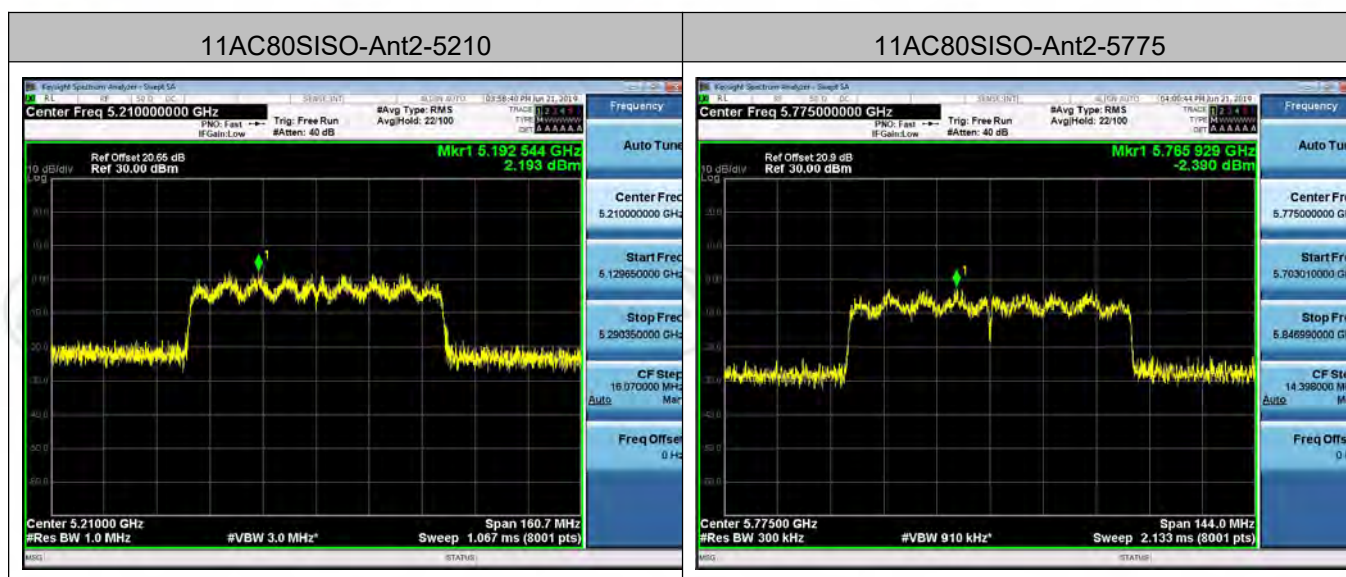












## Appendix D): Band Edge Measurements

### Result Table

#### WC0PR1601: Antenna 2

| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|-----------|---------|---------|-----------------|------------|---------|
| 11A       | Ant1    | 5180    | -46.739         |            | PASS    |
| 11A       | Ant1    | 5240    | -47.616         |            | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | Below 5715      | 5715-5725  |         |
| 11A       | Ant1    | 5745    | -46.831         | -47.585    | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | 5850-5860       | Above 5860 |         |
| 11A       | Ant1    | 5825    | -48.573         | -46.556    | PASS    |

| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|-----------|---------|---------|-----------------|------------|---------|
| 11N20SISO | Ant1    | 5180    | -46.922         |            | PASS    |
| 11N20SISO | Ant1    | 5240    | -48.023         |            | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | Below 5715      | 5715-5725  |         |
| 11N20SISO | Ant1    | 5745    | -47.629         | -45.358    | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | 5850-5860       | Above 5860 |         |
| 11N20SISO | Ant1    | 5825    | -47.233         | -47.692    | PASS    |

| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|-----------|---------|---------|-----------------|------------|---------|
| 11N40SISO | Ant1    | 5190    | -49.823         |            | PASS    |
| 11N40SISO | Ant1    | 5230    | -53.204         |            | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | Below 5715      | 5715-5725  |         |
| 11N40SISO | Ant1    | 5755    | -46.934         | -47.125    | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | 5850-5860       | Above 5860 |         |
| 11N40SISO | Ant1    | 5795    | -48.654         | -48.033    | PASS    |

| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|------------|---------|---------|-----------------|------------|---------|
| 11AC20SISO | Ant1    | 5180    | -46.618         |            | PASS    |
| 11AC20SISO | Ant1    | 5240    | -48.097         |            | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | Below 5715      | 5715-5725  |         |
| 11AC20SISO | Ant1    | 5745    | -47.106         | -47.637    | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | 5850-5860       | Above 5860 |         |
| 11AC20SISO | Ant1    | 5825    | -48.173         | -46.796    | PASS    |

| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|------------|---------|---------|-----------------|------------|---------|
| 11AC40SISO | Ant1    | 5190    | -51.111         |            | PASS    |
| 11AC40SISO | Ant1    | 5230    | -44.734         |            | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | Below 5715      | 5715-5725  |         |
| 11AC40SISO | Ant1    | 5755    | -47.807         | -45.143    | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | 5850-5860       | Above 5860 |         |
| 11AC40SISO | Ant1    | 5795    | -48.369         | -47.316    | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
| 11AC80SISO | Ant1    | 5210    | -44.220         |            | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | 5850-5860       | Above 5860 |         |
| 11AC80SISO | Ant1    | 5775    | -36.594         | -39.363    | PASS    |

| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|-----------|---------|---------|-----------------|------------|---------|
| 11A       | Ant2    | 5180    | -46.102         |            | PASS    |
| 11A       | Ant2    | 5240    | -47.809         |            | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | Below 5715      | 5715-5725  |         |
| 11A       | Ant2    | 5745    | -47.885         | -47.743    | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | 5850-5860       | Above 5860 |         |
| 11A       | Ant2    | 5825    | -47.939         | -47.327    | PASS    |

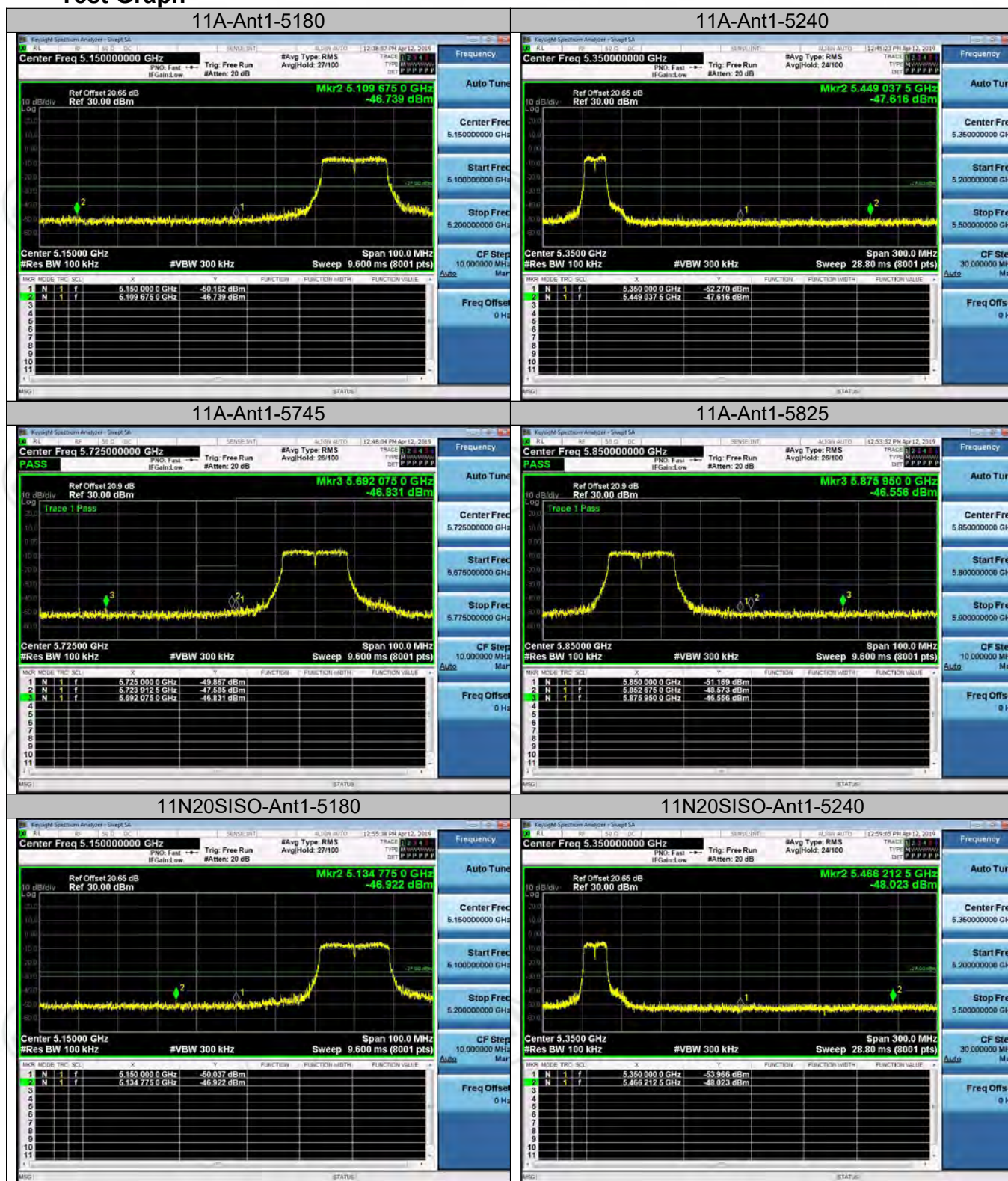
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|-----------|---------|---------|-----------------|------------|---------|
| 11N20SISO | Ant2    | 5180    | -46.115         |            | PASS    |
| 11N20SISO | Ant2    | 5240    | -47.383         |            | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | Below 5715      | 5715-5725  |         |
| 11N20SISO | Ant2    | 5745    | -48.369         | -46.252    | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | 5850-5860       | Above 5860 |         |
| 11N20SISO | Ant2    | 5825    | -48.026         | -47.365    | PASS    |

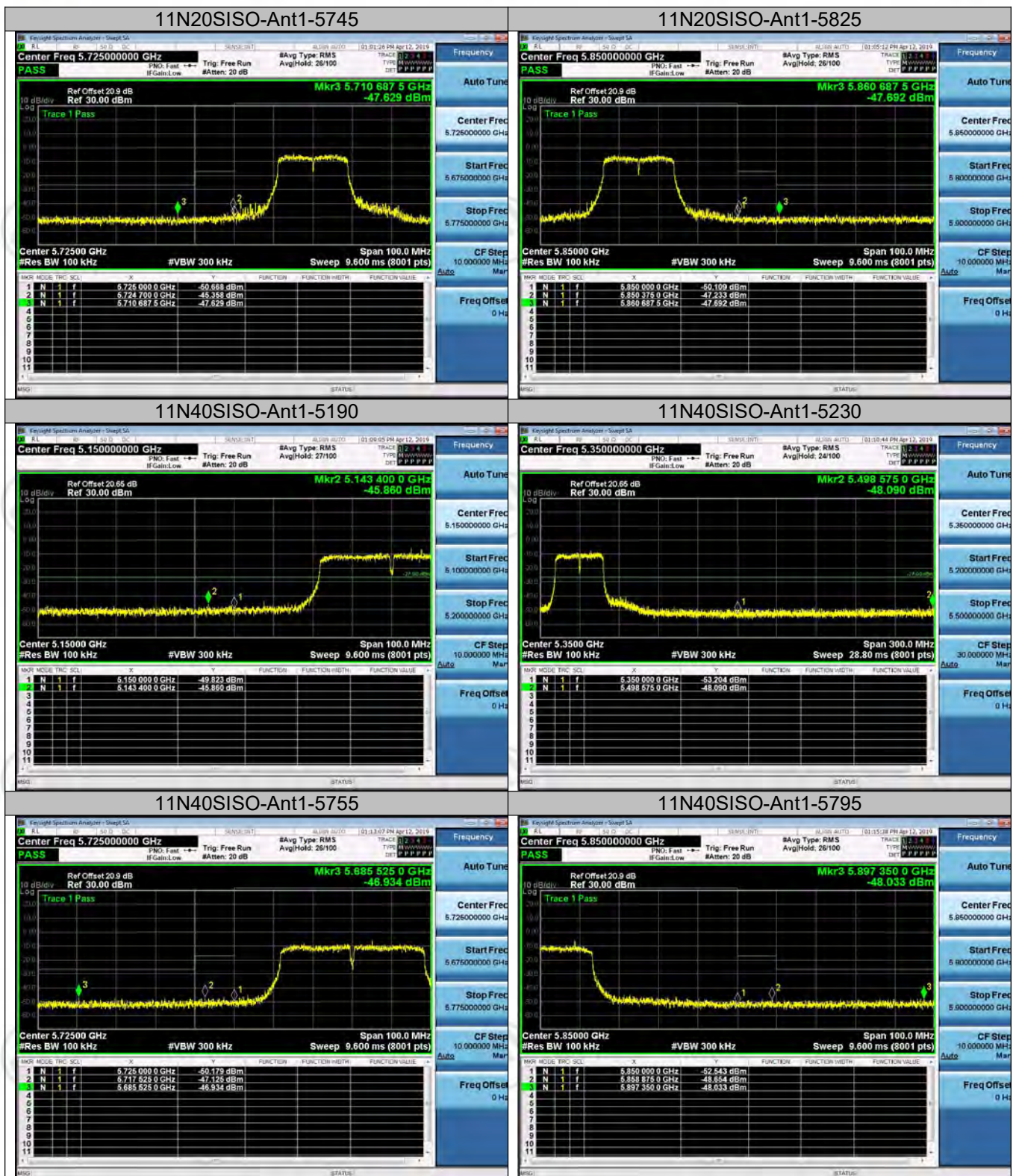
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|-----------|---------|---------|-----------------|------------|---------|
| 11N40SISO | Ant2    | 5190    | -50.95          |            | PASS    |
| 11N40SISO | Ant2    | 5230    | -51.823         |            | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | Below 5715      | 5715-5725  |         |
| 11N40SISO | Ant2    | 5755    | -47.291         | -40.747    | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | 5850-5860       | Above 5860 |         |
| 11N40SISO | Ant2    | 5795    | -48.562         | -47.583    | PASS    |

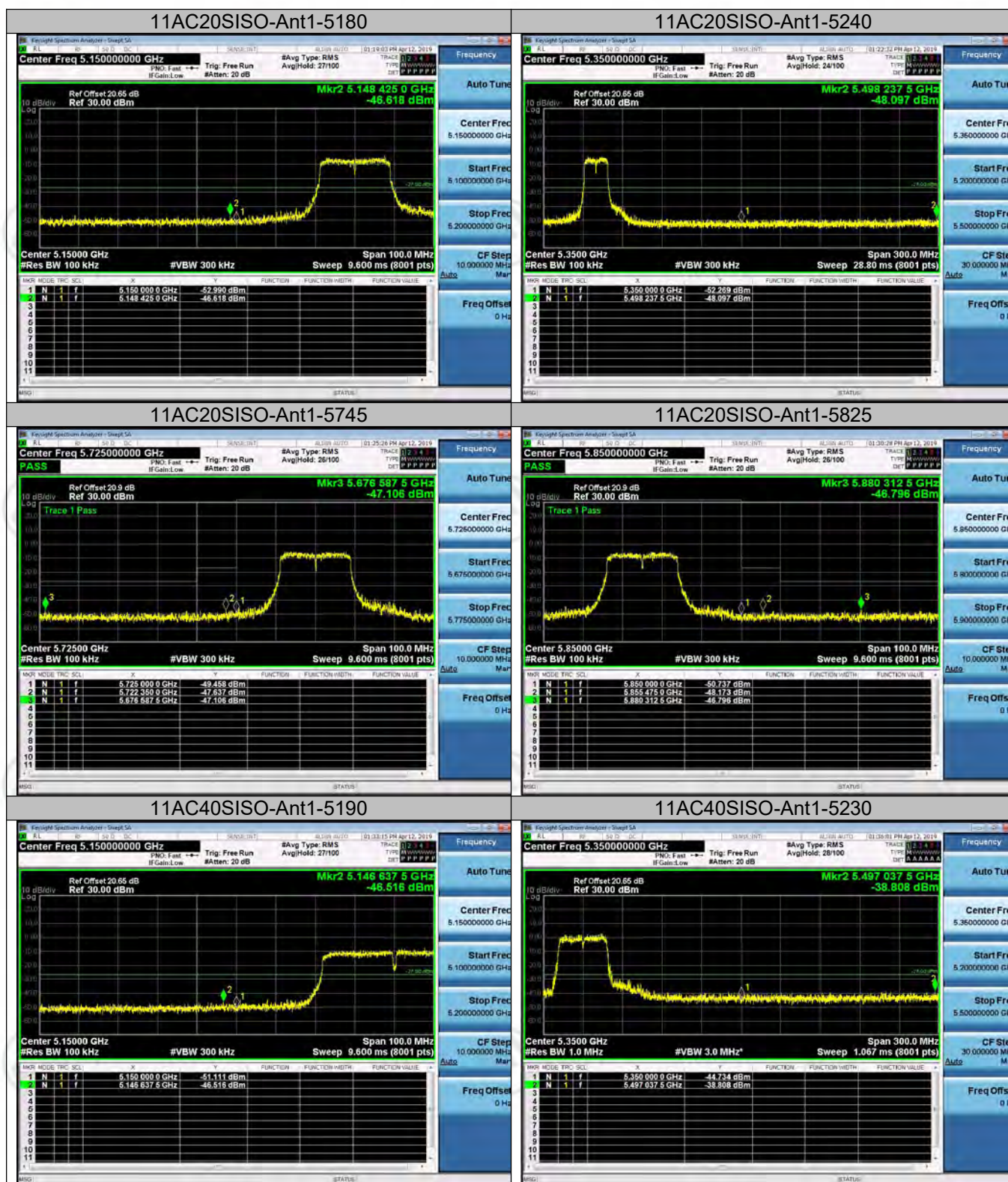
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|------------|---------|---------|-----------------|------------|---------|
| 11AC20SISO | Ant2    | 5180    | -47.191         |            | PASS    |
| 11AC20SISO | Ant2    | 5240    | -48.361         |            | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | Below 5715      | 5715-5725  |         |
| 11AC20SISO | Ant2    | 5745    | -47.212         | -43.652    | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | 5850-5860       | Above 5860 |         |
| 11AC20SISO | Ant2    | 5825    | -47.21          | -47.523    | PASS    |

| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|------------|---------|---------|-----------------|------------|---------|
| 11AC40SISO | Ant2    | 5190    | -51.938         |            | PASS    |
| 11AC40SISO | Ant2    | 5230    | -43.056         |            | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | Below 5715      | 5715-5725  |         |
| 11AC40SISO | Ant2    | 5755    | -44.924         | -42.989    | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | 5850-5860       | Above 5860 |         |
| 11AC40SISO | Ant2    | 5795    | -47.922         | -47.054    | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
| 11AC80SISO | Ant2    | 5210    | -41.934         |            | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | 5850-5860       | Above 5860 |         |
| 11AC80SISO | Ant2    | 5775    | -40.826         | -40.275    | PASS    |

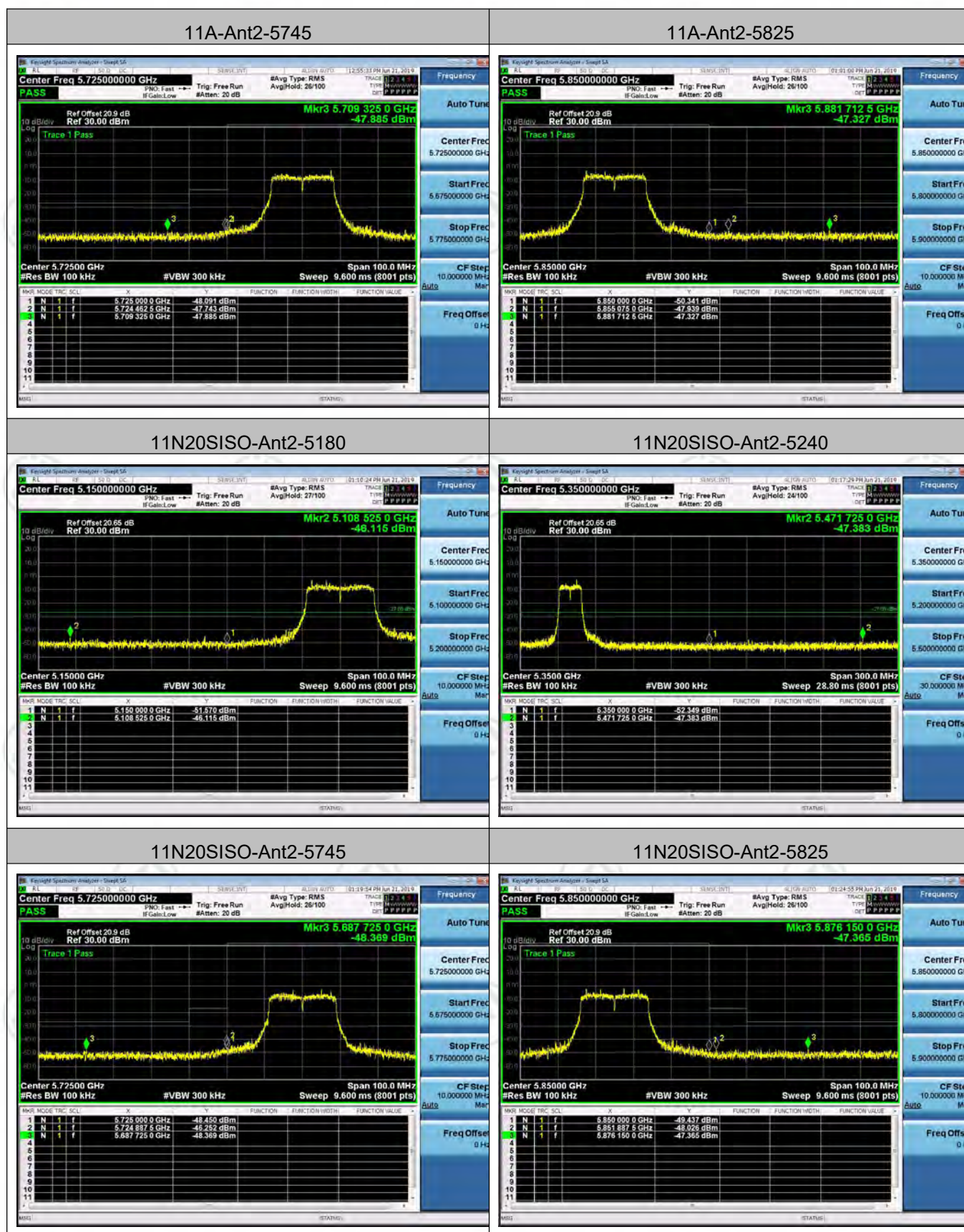
## Test Graph

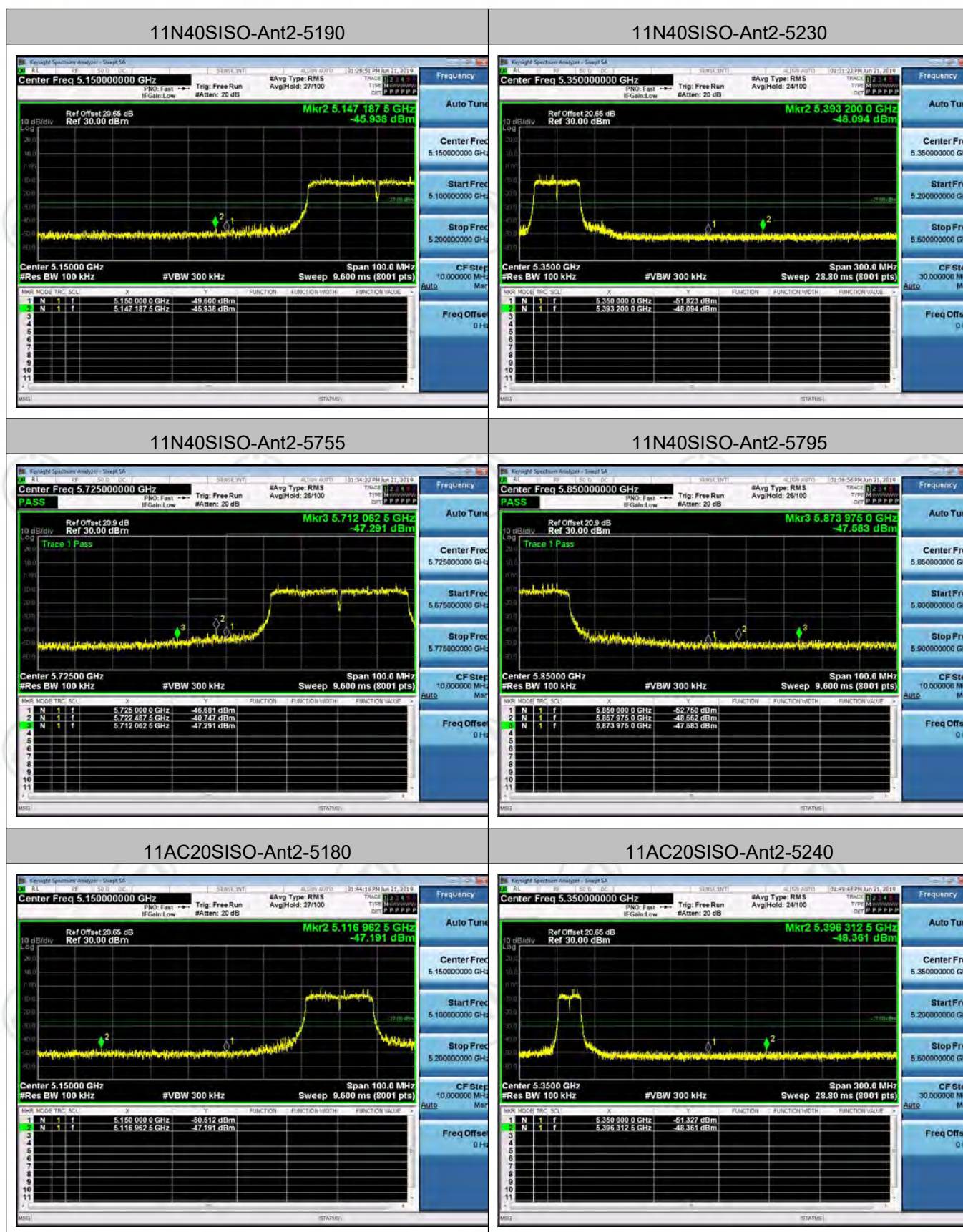




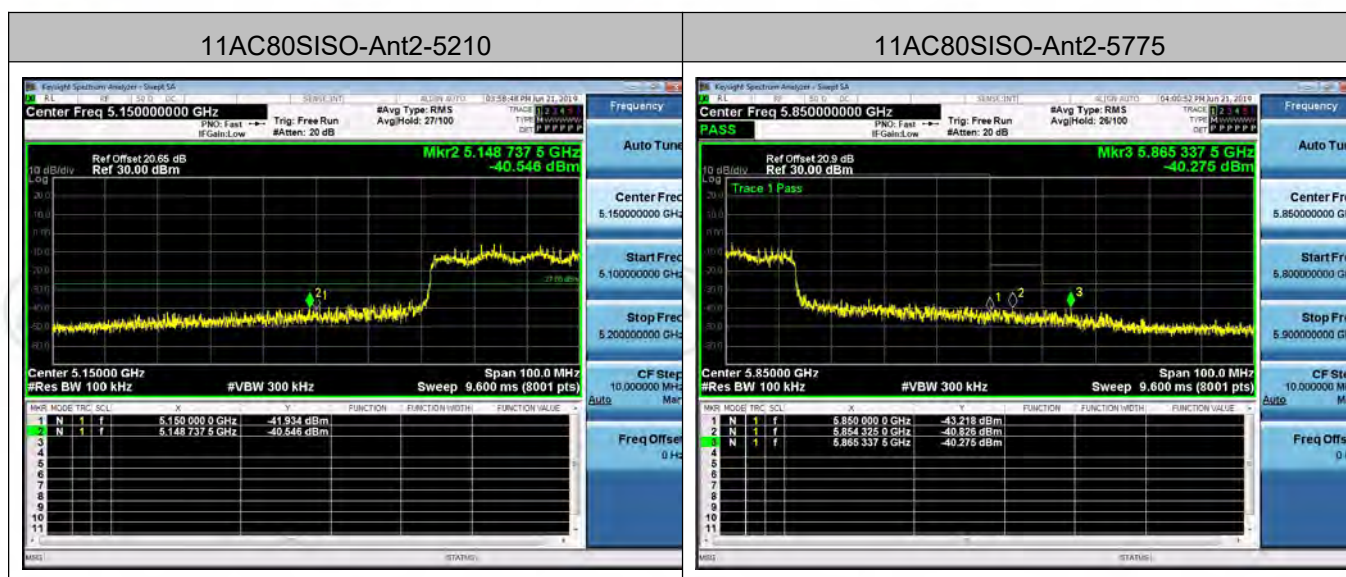












## Appendix E): Frequency Stability

### Frequency Error vs. Voltage:

#### WC0PR1601: Antenna 2

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11A       | Ant1    | 5180    | TN    | VL    | 5179.98         | -3.861004          | PASS    |
|           |         |         | TN    | VN    | 5180.04         | 7.722008           | PASS    |
|           |         |         | TN    | VH    | 5180.08         | 15.444015          | PASS    |
| 11A       | Ant1    | 5200    | TN    | VL    | 5200.08         | 15.384615          | PASS    |
|           |         |         | TN    | VN    | 5200.02         | 3.846154           | PASS    |
|           |         |         | TN    | VH    | 5199.98         | -3.846154          | PASS    |
| 11A       | Ant1    | 5240    | TN    | VL    | 5240.02         | 3.816794           | PASS    |
|           |         |         | TN    | VN    | 5240.08         | 15.267176          | PASS    |
|           |         |         | TN    | VH    | 5240.08         | 15.267176          | PASS    |
| 11A       | Ant1    | 5745    | TN    | VL    | 5745.04         | 6.962576           | PASS    |
|           |         |         | TN    | VN    | 5745.04         | 6.962576           | PASS    |
|           |         |         | TN    | VH    | 5744.98         | -3.481288          | PASS    |
| 11A       | Ant1    | 5785    | TN    | VL    | 5784.96         | -6.914434          | PASS    |
|           |         |         | TN    | VN    | 5785            | 0                  | PASS    |
|           |         |         | TN    | VH    | 5784.9          | -17.286085         | PASS    |
| 11A       | Ant1    | 5825    | TN    | VL    | 5824.94         | -10.300429         | PASS    |
|           |         |         | TN    | VN    | 5825.04         | 6.866953           | PASS    |
|           |         |         | TN    | VH    | 5824.98         | -3.433476          | PASS    |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11N20     | Ant1    | 5180    | TN    | VL    | 5180.02         | 3.861004           | PASS    |
|           |         |         | TN    | VN    | 5180.02         | 3.861004           | PASS    |
|           |         |         | TN    | VH    | 5180.02         | 3.861004           | PASS    |
| 11N20     | Ant1    | 5200    | TN    | VL    | 5200.02         | 3.846154           | PASS    |
|           |         |         | TN    | VN    | 5200.04         | 7.692308           | PASS    |
|           |         |         | TN    | VH    | 5200.06         | 11.538462          | PASS    |
| 11N20     | Ant1    | 5240    | TN    | VL    | 5240.02         | 3.816794           | PASS    |
|           |         |         | TN    | VN    | 5240.02         | 3.816794           | PASS    |
|           |         |         | TN    | VH    | 5239.94         | -11.450382         | PASS    |
| 11N20     | Ant1    | 5745    | TN    | VL    | 5744.98         | -3.481288          | PASS    |
|           |         |         | TN    | VN    | 5745.04         | -3.481288          | PASS    |
|           |         |         | TN    | VH    | 5744.98         | -6.962576          | PASS    |
| 11N20     | Ant1    | 5785    | TN    | VL    | 5785.06         | 10.371651          | PASS    |
|           |         |         | TN    | VN    | 5785.02         | 3.457217           | PASS    |
|           |         |         | TN    | VH    | 5784.96         | -6.914434          | PASS    |
| 11N20     | Ant1    | 5825    | TN    | VL    | 5824.98         | -3.433476          | PASS    |
|           |         |         | TN    | VN    | 5825            | 0                  | PASS    |
|           |         |         | TN    | VH    | 5824.96         | -6.866953          | PASS    |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11N40     | Ant1    | 5190    | TN    | VL    | 5190            | 0                  | PASS    |
|           |         |         | TN    | VN    | 5190.04         | 7.707129           | PASS    |
|           |         |         | TN    | VH    | 5190.08         | 15.414258          | PASS    |
| 11N40     | Ant1    | 5230    | TN    | VL    | 5230.08         | 15.296367          | PASS    |
|           |         |         | TN    | VN    | 5229.96         | -7.648184          | PASS    |
|           |         |         | TN    | VH    | 5230            | 0                  | PASS    |
| 11N40     | Ant1    | 5755    | TN    | VL    | 5755            | 0                  | PASS    |
|           |         |         | TN    | VN    | 5755.04         | 6.950478           | PASS    |
|           |         |         | TN    | VH    | 5755.04         | 6.950478           | PASS    |
| 11N40     | Ant1    | 5795    | TN    | VL    | 5795            | 0                  | PASS    |
|           |         |         | TN    | VN    | 5795.04         | 6.902502           | PASS    |
|           |         |         | TN    | VH    | 5795.04         | 6.902502           | PASS    |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11AC20    | Ant1    | 5180    | TN    | VL    | 5180            | 0                  | PASS    |
|           |         |         | TN    | VN    | 5180.04         | 7.722008           | PASS    |
|           |         |         | TN    | VH    | 5180.04         | 7.722008           | PASS    |
| 11AC20    | Ant1    | 5200    | TN    | VL    | 5200            | 0                  | PASS    |
|           |         |         | TN    | VN    | 5200            | 0                  | PASS    |
|           |         |         | TN    | VH    | 5200.02         | 3.846154           | PASS    |
| 11AC20    | Ant1    | 5240    | TN    | VL    | 5239.96         | -7.633588          | PASS    |
|           |         |         | TN    | VN    | 5240.1          | 19.083969          | PASS    |
|           |         |         | TN    | VH    | 5240.02         | 3.816794           | PASS    |
| 11AC20    | Ant1    | 5745    | TN    | VL    | 5744.98         | -3.481288          | PASS    |
|           |         |         | TN    | VN    | 5745            | 0                  | PASS    |
|           |         |         | TN    | VH    | 5744.98         | -3.481288          | PASS    |
| 11AC20    | Ant1    | 5785    | TN    | VL    | 5785            | 0                  | PASS    |
|           |         |         | TN    | VN    | 5784.96         | -6.914434          | PASS    |
|           |         |         | TN    | VH    | 5785.02         | 3.457217           | PASS    |
| 11AC20    | Ant1    | 5825    | TN    | VL    | 5824.96         | -6.866953          | PASS    |
|           |         |         | TN    | VN    | 5825.02         | 3.433476           | PASS    |
|           |         |         | TN    | VH    | 5824.96         | -6.866953          | PASS    |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11AC40    | Ant1    | 5190    | TN    | VL    | 5190.04         | 7.707129           | PASS    |
|           |         |         | TN    | VN    | 5190.04         | 7.707129           | PASS    |
|           |         |         | TN    | VH    | 5189.92         | -15.414258         | PASS    |
| 11AC40    | Ant1    | 5230    | TN    | VL    | 5230.08         | 15.296367          | PASS    |
|           |         |         | TN    | VN    | 5230.04         | 7.648184           | PASS    |
|           |         |         | TN    | VH    | 5230.04         | 7.648184           | PASS    |
| 11AC40    | Ant1    | 5755    | TN    | VL    | 5755.08         | 13.900956          | PASS    |
|           |         |         | TN    | VN    | 5755            | 0                  | PASS    |
|           |         |         | TN    | VH    | 5755.04         | 6.950478           | PASS    |
| 11AC40    | Ant1    | 5795    | TN    | VL    | 5794.96         | -6.902502          | PASS    |
|           |         |         | TN    | VN    | 5795.04         | 6.902502           | PASS    |

|  |  |  |    |    |      |   |      |
|--|--|--|----|----|------|---|------|
|  |  |  | TN | VH | 5795 | 0 | PASS |
|--|--|--|----|----|------|---|------|

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11AC80    | Ant1    | 5210    | TN    | VL    | 5210.08         | 15.355086          | PASS    |
|           |         |         | TN    | VN    | 5210            | 0                  | PASS    |
|           |         |         | TN    | VH    | 5210.08         | 15.355086          | PASS    |
| 11AC80    | Ant1    | 5775    | TN    | VL    | 5775            | 0                  | PASS    |
|           |         |         | TN    | VN    | 5775            | 0                  | PASS    |
|           |         |         | TN    | VH    | 5775            | 0                  | PASS    |

**Frequency Error vs. Temperature:  
 WC0PR1601: Antenna 2**

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11A       | Ant1    | 5180    | 50    | VN    | 5180.04         | 7.722008           | PASS    |
|           |         |         | 40    | VN    | 5179.98         | -3.861004          | PASS    |
|           |         |         | 30    | VN    | 5180.08         | 15.444015          | PASS    |
|           |         |         | 20    | VN    | 5180            | 0                  | PASS    |
|           |         |         | 10    | VN    | 5180.02         | 3.861004           | PASS    |
|           |         |         | 0     | VN    | 5180            | 0                  | PASS    |
|           |         |         | -10   | VN    | 5180            | 0                  | PASS    |
|           |         |         | -20   | VN    | 5179.98         | -3.861004          | PASS    |
|           |         |         | -30   | VN    | 5179.94         | -11.583012         | PASS    |
| 11A       | Ant1    | 5200    | 50    | VN    | 5200.02         | 3.846154           | PASS    |
|           |         |         | 40    | VN    | 5199.96         | -7.692308          | PASS    |
|           |         |         | 30    | VN    | 5200.06         | 11.538462          | PASS    |
|           |         |         | 20    | VN    | 5200.1          | 19.230769          | PASS    |
|           |         |         | 10    | VN    | 5200.08         | 15.384615          | PASS    |
|           |         |         | 0     | VN    | 5200.06         | 11.538462          | PASS    |
|           |         |         | -10   | VN    | 5200.04         | 7.692308           | PASS    |
|           |         |         | -20   | VN    | 5200.04         | 7.692308           | PASS    |
|           |         |         | -30   | VN    | 5200.04         | 7.692308           | PASS    |
| 11A       | Ant1    | 5240    | 50    | VN    | 5240.08         | 15.267176          | PASS    |
|           |         |         | 40    | VN    | 5240.06         | 11.450382          | PASS    |
|           |         |         | 30    | VN    | 5240.06         | 11.450382          | PASS    |
|           |         |         | 20    | VN    | 5240.06         | 11.450382          | PASS    |
|           |         |         | 10    | VN    | 5240.04         | 7.633588           | PASS    |
|           |         |         | 0     | VN    | 5240.04         | 7.633588           | PASS    |
|           |         |         | -10   | VN    | 5240.06         | 11.450382          | PASS    |
|           |         |         | -20   | VN    | 5239.96         | -7.633588          | PASS    |
|           |         |         | -30   | VN    | 5239.96         | -7.633588          | PASS    |
| 11A       | Ant1    | 5745    | 50    | VN    | 5745.02         | 3.481288           | PASS    |
|           |         |         | 40    | VN    | 5744.94         | -10.443864         | PASS    |
|           |         |         | 30    | VN    | 5745.08         | 13.925152          | PASS    |

|     |      |      |     |    |         |            |      |
|-----|------|------|-----|----|---------|------------|------|
|     |      |      | 20  | VN | 5745    | 0          | PASS |
|     |      |      | 10  | VN | 5745.1  | 17.40644   | PASS |
|     |      |      | 0   | VN | 5744.96 | -6.962576  | PASS |
|     |      |      | -10 | VN | 5745    | 0          | PASS |
|     |      |      | -20 | VN | 5745.06 | 10.443864  | PASS |
|     |      |      | -30 | VN | 5745.08 | 13.925152  | PASS |
| 11A | Ant1 | 5785 | 50  | VN | 5784.98 | -3.457217  | PASS |
|     |      |      | 40  | VN | 5785    | 0          | PASS |
|     |      |      | 30  | VN | 5784.98 | -3.457217  | PASS |
|     |      |      | 20  | VN | 5785    | 0          | PASS |
|     |      |      | 10  | VN | 5784.94 | -10.371651 | PASS |
|     |      |      | 0   | VN | 5784.98 | -3.457217  | PASS |
|     |      |      | -10 | VN | 5784.96 | -6.914434  | PASS |
|     |      |      | -20 | VN | 5785.08 | 13.828868  | PASS |
|     |      |      | -30 | VN | 5785.02 | 3.457217   | PASS |
| 11A | Ant1 | 5825 | 50  | VN | 5825.08 | 13.733906  | PASS |
|     |      |      | 40  | VN | 5825.02 | 3.433476   | PASS |
|     |      |      | 30  | VN | 5825.04 | 6.866953   | PASS |
|     |      |      | 20  | VN | 5825.04 | 6.866953   | PASS |
|     |      |      | 10  | VN | 5825.04 | 6.866953   | PASS |
|     |      |      | 0   | VN | 5825.02 | 3.433476   | PASS |
|     |      |      | -10 | VN | 5824.92 | -13.733906 | PASS |
|     |      |      | -20 | VN | 5825.06 | 10.300429  | PASS |
|     |      |      | -30 | VN | 5824.96 | -6.866953  | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11N20     | Ant1    | 5180    | 50    | VN    | 5180.02         | 3.861004           | PASS    |
|           |         |         | 40    | VN    | 5180.07         | 10.300429          | PASS    |
|           |         |         | 30    | VN    | 5180.02         | 3.861004           | PASS    |
|           |         |         | 20    | VN    | 5179.09         | -6.866953          | PASS    |
|           |         |         | 10    | VN    | 5180.02         | 3.861004           | PASS    |
|           |         |         | 0     | VN    | 5180.08         | 15.444015          | PASS    |
|           |         |         | -10   | VN    | 5179.92         | -15.444015         | PASS    |

|       |      |      |     |    |         |            |      |
|-------|------|------|-----|----|---------|------------|------|
| 11N20 | Ant1 | 5200 | -20 | VN | 5180.02 | 3.861004   | PASS |
|       |      |      | -30 | VN | 5179.96 | -7.722008  | PASS |
|       |      |      | 50  | VN | 5200.04 | 7.692308   | PASS |
|       |      |      | 40  | VN | 5200.02 | 3.846154   | PASS |
|       |      |      | 30  | VN | 5199.98 | -3.846154  | PASS |
|       |      |      | 20  | VN | 5200.02 | 3.846154   | PASS |
|       |      |      | 10  | VN | 5200.08 | 3.846154   | PASS |
|       |      |      | 0   | VN | 5200.08 | 15.384615  | PASS |
|       |      |      | -10 | VN | 5199.92 | -15.384615 | PASS |
|       |      |      | -20 | VN | 5200.08 | 15.384615  | PASS |
| 11N20 | Ant1 | 5240 | -30 | VN | 5200.04 | 7.692308   | PASS |
|       |      |      | 50  | VN | 5240.04 | 7.633588   | PASS |
|       |      |      | 40  | VN | 5240.08 | 15.267176  | PASS |
|       |      |      | 30  | VN | 5239.92 | -15.267176 | PASS |
|       |      |      | 20  | VN | 5240.02 | 3.816794   | PASS |
|       |      |      | 10  | VN | 5240.06 | 11.450382  | PASS |
|       |      |      | 0   | VN | 5240.02 | 3.816794   | PASS |
|       |      |      | -10 | VN | 5240.02 | 3.816794   | PASS |
|       |      |      | -20 | VN | 5240.05 | 3.481288   | PASS |
|       |      |      | -30 | VN | 5240.08 | 15.267176  | PASS |
| 11N20 | Ant1 | 5745 | 50  | VN | 5745.02 | 3.481288   | PASS |
|       |      |      | 40  | VN | 5744.94 | -10.443864 | PASS |
|       |      |      | 30  | VN | 5744.96 | -6.962576  | PASS |
|       |      |      | 20  | VN | 5745.08 | 13.925152  | PASS |
|       |      |      | 10  | VN | 5744.99 | -13.925152 | PASS |
|       |      |      | 0   | VN | 5744.92 | -13.925152 | PASS |
|       |      |      | -10 | VN | 5745    | 0          | PASS |
|       |      |      | -20 | VN | 5744.98 | -3.481288  | PASS |
|       |      |      | -30 | VN | 5745.02 | 3.481288   | PASS |
| 11N20 | Ant1 | 5785 | 50  | VN | 5784.96 | -6.914434  | PASS |
|       |      |      | 40  | VN | 5785.1  | 17.286085  | PASS |
|       |      |      | 30  | VN | 5784.96 | -6.914434  | PASS |
|       |      |      | 20  | VN | 5784.92 | -13.828868 | PASS |

|       |      |      |     |    |         |            |      |
|-------|------|------|-----|----|---------|------------|------|
| 11N20 | Ant1 | 5825 | 10  | VN | 5784.96 | -6.914434  | PASS |
|       |      |      | 0   | VN | 5785    | 0          | PASS |
|       |      |      | -10 | VN | 5784.96 | -6.914434  | PASS |
|       |      |      | -20 | VN | 5784.98 | -3.457217  | PASS |
|       |      |      | -30 | VN | 5784.94 | -10.371651 | PASS |
|       |      |      | 50  | VN | 5824.96 | -6.866953  | PASS |
|       |      |      | 40  | VN | 5824.92 | -13.733906 | PASS |
|       |      |      | 30  | VN | 5825.02 | 3.433476   | PASS |
|       |      |      | 20  | VN | 5825.08 | 13.733906  | PASS |
| 11N20 | Ant1 | 5825 | 10  | VN | 5825.04 | 6.866953   | PASS |
|       |      |      | 0   | VN | 5825.08 | 13.733906  | PASS |
|       |      |      | -10 | VN | 5824.98 | -3.433476  | PASS |
|       |      |      | -20 | VN | 5825.06 | 10.300429  | PASS |
|       |      |      | -30 | VN | 5825    | 0          | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11N40     | Ant1    | 5190    | 50    | VN    | 5190.04         | 7.707129           | PASS    |
|           |         |         | 40    | VN    | 5190            | 0                  | PASS    |
|           |         |         | 30    | VN    | 5190.08         | 15.414258          | PASS    |
|           |         |         | 20    | VN    | 5190.08         | 15.414258          | PASS    |
|           |         |         | 10    | VN    | 5190            | 0                  | PASS    |
|           |         |         | 0     | VN    | 5190.04         | 7.707129           | PASS    |
|           |         |         | -10   | VN    | 5190.04         | 0                  | PASS    |
|           |         |         | -20   | VN    | 5190.04         | 7.707129           | PASS    |
|           |         |         | -30   | VN    | 5190            | 7.707129           | PASS    |
| 11N40     | Ant1    | 5230    | 50    | VN    | 5230            | 0                  | PASS    |
|           |         |         | 40    | VN    | 5230.04         | 7.648184           | PASS    |
|           |         |         | 30    | VN    | 5230.04         | 7.648184           | PASS    |
|           |         |         | 20    | VN    | 5230            | 0                  | PASS    |
|           |         |         | 10    | VN    | 5229.96         | -7.648184          | PASS    |
|           |         |         | 0     | VN    | 5230.04         | 7.648184           | PASS    |
|           |         |         | -10   | VN    | 5230            | 0                  | PASS    |

|       |      |      |     |    |         |            |      |
|-------|------|------|-----|----|---------|------------|------|
| 11N40 | Ant1 | 5755 | -20 | VN | 5230.08 | 15.296367  | PASS |
|       |      |      | -30 | VN | 5230.04 | 7.648184   | PASS |
|       |      |      | 50  | VN | 5755    | 0          | PASS |
|       |      |      | 40  | VN | 5754.96 | -6.950478  | PASS |
|       |      |      | 30  | VN | 5755.04 | 6.950478   | PASS |
|       |      |      | 20  | VN | 5755    | 0          | PASS |
|       |      |      | 10  | VN | 5754.96 | -6.950478  | PASS |
|       |      |      | 0   | VN | 5755.04 | 6.950478   | PASS |
|       |      |      | -10 | VN | 5754.92 | -13.900956 | PASS |
|       |      |      | -20 | VN | 5755.08 | 13.900956  | PASS |
|       |      |      | -30 | VN | 5755.04 | 6.950478   | PASS |
| 11N40 | Ant1 | 5795 | 50  | VN | 5795    | 0          | PASS |
|       |      |      | 40  | VN | 5795    | 0          | PASS |
|       |      |      | 30  | VN | 5795.08 | 13.805004  | PASS |
|       |      |      | 20  | VN | 5794.92 | -13.805004 | PASS |
|       |      |      | 10  | VN | 5795    | 0          | PASS |
|       |      |      | 0   | VN | 5795    | 0          | PASS |
|       |      |      | -10 | VN | 5795.04 | 6.902502   | PASS |
|       |      |      | -20 | VN | 5795.04 | 6.902502   | PASS |
|       |      |      | -30 | VN | 5794.96 | -6.902502  | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11AC20    | Ant1    | 5180    | 50    | VN    | 5180.02         | 3.861004           | PASS    |
|           |         |         | 40    | VN    | 5180            | 0                  | PASS    |
|           |         |         | 30    | VN    | 5180.02         | 3.861004           | PASS    |
|           |         |         | 20    | VN    | 5180            | 0                  | PASS    |
|           |         |         | 10    | VN    | 5180.02         | 3.861004           | PASS    |
|           |         |         | 0     | VN    | 5180.08         | 15.444015          | PASS    |
|           |         |         | -10   | VN    | 5179.92         | -15.444015         | PASS    |
|           |         |         | -20   | VN    | 5180            | 0                  | PASS    |
|           |         |         | -30   | VN    | 5179.96         | -7.722008          | PASS    |
|           | Ant1    | 5200    | 50    | VN    | 5200.04         | 7.692308           | PASS    |
|           |         |         | 40    | VN    | 5200.02         | 3.846154           | PASS    |

|        |      |      |     |    |         |            |      |
|--------|------|------|-----|----|---------|------------|------|
|        |      |      | 30  | VN | 5199.98 | -3.846154  | PASS |
|        |      |      | 20  | VN | 5200.02 | 3.846154   | PASS |
|        |      |      | 10  | VN | 5200    | 0          | PASS |
|        |      |      | 0   | VN | 5200.08 | 15.384615  | PASS |
|        |      |      | -10 | VN | 5199.92 | -15.384615 | PASS |
|        |      |      | -20 | VN | 5200.08 | 15.384615  | PASS |
|        |      |      | -30 | VN | 5200.04 | 7.692308   | PASS |
| 11AC20 | Ant1 | 5240 | 50  | VN | 5240.04 | 7.633588   | PASS |
|        |      |      | 40  | VN | 5240.08 | 15.267176  | PASS |
|        |      |      | 30  | VN | 5239.92 | -15.267176 | PASS |
|        |      |      | 20  | VN | 5240.02 | 3.816794   | PASS |
|        |      |      | 10  | VN | 5240.06 | 11.450382  | PASS |
|        |      |      | 0   | VN | 5240.02 | 3.816794   | PASS |
|        |      |      | -10 | VN | 5240.02 | 3.816794   | PASS |
|        |      |      | -20 | VN | 5240    | 0          | PASS |
|        |      |      | -30 | VN | 5240.08 | 15.267176  | PASS |
| 11AC20 | Ant1 | 5745 | 50  | VN | 5745.02 | 3.481288   | PASS |
|        |      |      | 40  | VN | 5744.94 | -10.443864 | PASS |
|        |      |      | 30  | VN | 5744.96 | -6.962576  | PASS |
|        |      |      | 20  | VN | 5745.08 | 13.925152  | PASS |
|        |      |      | 10  | VN | 5745    | 0          | PASS |
|        |      |      | 0   | VN | 5744.92 | -13.925152 | PASS |
|        |      |      | -10 | VN | 5745    | 0          | PASS |
|        |      |      | -20 | VN | 5744.98 | -3.481288  | PASS |
|        |      |      | -30 | VN | 5745.02 | 3.481288   | PASS |
| 11AC20 | Ant1 | 5785 | 50  | VN | 5784.96 | -6.914434  | PASS |
|        |      |      | 40  | VN | 5785.1  | 17.286085  | PASS |
|        |      |      | 30  | VN | 5784.96 | -6.914434  | PASS |
|        |      |      | 20  | VN | 5784.92 | -13.828868 | PASS |
|        |      |      | 10  | VN | 5784.96 | -6.914434  | PASS |
|        |      |      | 0   | VN | 5785    | 0          | PASS |
|        |      |      | -10 | VN | 5785    | 0          | PASS |
|        |      |      | -20 | VN | 5785.08 | 13.828868  | PASS |

|        |      |      |     |    |         |            |      |
|--------|------|------|-----|----|---------|------------|------|
|        |      |      | -30 | VN | 5784.98 | -3.457217  | PASS |
| 11AC20 | Ant1 | 5825 | 50  | VN | 5825.02 | 3.433476   | PASS |
|        |      |      | 40  | VN | 5824.92 | -13.733906 | PASS |
|        |      |      | 30  | VN | 5825    | 0          | PASS |
|        |      |      | 20  | VN | 5824.96 | -6.866953  | PASS |
|        |      |      | 10  | VN | 5824.96 | -6.866953  | PASS |
|        |      |      | 0   | VN | 5825    | 0          | PASS |
|        |      |      | -10 | VN | 5825.02 | 3.433476   | PASS |
|        |      |      | -20 | VN | 5825    | 0          | PASS |
|        |      |      | -30 | VN | 5825    | 0          | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11AC40    | Ant1    | 5190    | 50    | VN    | 5190.04         | 7.707129           | PASS    |
|           |         |         | 40    | VN    | 5190.08         | 15.414258          | PASS    |
|           |         |         | 30    | VN    | 5190.04         | 7.707129           | PASS    |
|           |         |         | 20    | VN    | 5190            | 0                  | PASS    |
|           |         |         | 10    | VN    | 5190.04         | 7.707129           | PASS    |
|           |         |         | 0     | VN    | 5190.04         | 7.707129           | PASS    |
|           |         |         | -10   | VN    | 5190            | 0                  | PASS    |
|           |         |         | -20   | VN    | 5190.04         | 7.707129           | PASS    |
|           |         |         | -30   | VN    | 5190            | 0                  | PASS    |
| 11AC40    | Ant1    | 5230    | 50    | VN    | 5230.04         | 7.648184           | PASS    |
|           |         |         | 40    | VN    | 5230.04         | 7.648184           | PASS    |
|           |         |         | 30    | VN    | 5230.08         | 15.296367          | PASS    |
|           |         |         | 20    | VN    | 5230            | 0                  | PASS    |
|           |         |         | 10    | VN    | 5230            | 0                  | PASS    |
|           |         |         | 0     | VN    | 5230.04         | 7.648184           | PASS    |
|           |         |         | -10   | VN    | 5230.04         | 7.648184           | PASS    |
|           |         |         | -20   | VN    | 5230.04         | 7.648184           | PASS    |
|           |         |         | -30   | VN    | 5230.08         | 15.296367          | PASS    |
| 11AC40    | Ant1    | 5755    | 50    | VN    | 5755            | 0                  | PASS    |
|           |         |         | 40    | VN    | 5755.04         | 6.950478           | PASS    |
|           |         |         | 30    | VN    | 5755.08         | 13.900956          | PASS    |

|        |      |      |     |    |         |            |      |
|--------|------|------|-----|----|---------|------------|------|
| 11AC40 | Ant1 | 5795 | 20  | VN | 5755    | 0          | PASS |
|        |      |      | 10  | VN | 5755    | 0          | PASS |
|        |      |      | 0   | VN | 5755.04 | 6.950478   | PASS |
|        |      |      | -10 | VN | 5755    | 0          | PASS |
|        |      |      | -20 | VN | 5755.04 | 6.950478   | PASS |
|        |      |      | -30 | VN | 5754.96 | -6.950478  | PASS |
|        |      |      | 50  | VN | 5794.96 | -6.902502  | PASS |
|        |      |      | 40  | VN | 5795.04 | 6.902502   | PASS |
|        |      |      | 30  | VN | 5795    | 0          | PASS |
| 11AC40 | Ant1 | 5795 | 20  | VN | 5795    | 0          | PASS |
|        |      |      | 10  | VN | 5794.92 | -13.805004 | PASS |
|        |      |      | 0   | VN | 5794.96 | -6.902502  | PASS |
|        |      |      | -10 | VN | 5795    | 0          | PASS |
|        |      |      | -20 | VN | 5794.96 | -6.902502  | PASS |
|        |      |      | -30 | VN | 5794.96 | -6.902502  | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11AC80    | Ant1    | 5210    | 50    | VN    | 5210            | 0                  | PASS    |
|           |         |         | 40    | VN    | 5210.08         | 15.355086          | PASS    |
|           |         |         | 30    | VN    | 5210.08         | 15.355086          | PASS    |
|           |         |         | 20    | VN    | 5210.08         | 15.355086          | PASS    |
|           |         |         | 10    | VN    | 5210.08         | 15.355086          | PASS    |
|           |         |         | 0     | VN    | 5210            | 0                  | PASS    |
|           |         |         | -10   | VN    | 5210.08         | 15.355086          | PASS    |
|           |         |         | -20   | VN    | 5210.08         | 15.355086          | PASS    |
|           |         |         | -30   | VN    | 5210.08         | 15.355086          | PASS    |
| 11AC80    | Ant1    | 5775    | 50    | VN    | 5774.92         | -13.852814         | PASS    |
|           |         |         | 40    | VN    | 5775            | 0                  | PASS    |
|           |         |         | 30    | VN    | 5775            | 0                  | PASS    |
|           |         |         | 20    | VN    | 5775.08         | 13.852814          | PASS    |
|           |         |         | 10    | VN    | 5775            | 0                  | PASS    |
|           |         |         | 0     | VN    | 5774.92         | -13.852814         | PASS    |
|           |         |         | -10   | VN    | 5775.08         | 13.852814          | PASS    |

|  |  |  |     |    |         |            |      |
|--|--|--|-----|----|---------|------------|------|
|  |  |  | -20 | VN | 5775    | 0          | PASS |
|  |  |  | -30 | VN | 5774.92 | -13.852814 | PASS |

**Frequency Error vs. Voltage:**
**WC0PR1601: Antenna 2**

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11A       | Ant2    | 5180    | TN    | VL    | 5180.06         | 11.583012          | PASS    |
|           |         |         | TN    | VN    | 5180            | 0                  | PASS    |
|           |         |         | TN    | VH    | 5179.985        | -2.895753          | PASS    |
| 11A       | Ant2    | 5200    | TN    | VL    | 5199.97         | -5.769231          | PASS    |
|           |         |         | TN    | VN    | 5200.06         | 11.538462          | PASS    |
|           |         |         | TN    | VH    | 5199.985        | -2.884615          | PASS    |
| 11A       | Ant2    | 5240    | TN    | VL    | 5239.97         | -5.725191          | PASS    |
|           |         |         | TN    | VN    | 5239.94         | -11.450382         | PASS    |
|           |         |         | TN    | VH    | 5240.03         | 5.725191           | PASS    |
| 11A       | Ant2    | 5745    | TN    | VL    | 5745.075        | 13.05483           | PASS    |
|           |         |         | TN    | VN    | 5745.09         | 15.665796          | PASS    |
|           |         |         | TN    | VH    | 5744.985        | -2.610966          | PASS    |
| 11A       | Ant2    | 5785    | TN    | VL    | 5785.015        | 2.592913           | PASS    |
|           |         |         | TN    | VN    | 5784.955        | -7.778738          | PASS    |
|           |         |         | TN    | VH    | 5785.075        | 12.964564          | PASS    |
| 11A       | Ant2    | 5825    | TN    | VL    | 5825.06         | 10.300429          | PASS    |
|           |         |         | TN    | VN    | 5825.06         | 10.300429          | PASS    |
|           |         |         | TN    | VH    | 5824.97         | -5.150215          | PASS    |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11N20     | Ant2    | 5180    | TN    | VL    | 5179.955        | -8.687259          | PASS    |
|           |         |         | TN    | VN    | 5179.925        | -14.478764         | PASS    |
|           |         |         | TN    | VH    | 5180.03         | 5.791506           | PASS    |
| 11N20     | Ant2    | 5200    | TN    | VL    | 5200.045        | 8.653846           | PASS    |
|           |         |         | TN    | VN    | 5199.985        | -2.884615          | PASS    |
|           |         |         | TN    | VH    | 5199.985        | -2.884615          | PASS    |
| 11N20     | Ant2    | 5240    | TN    | VL    | 5239.985        | -2.862595          | PASS    |
|           |         |         | TN    | VN    | 5240            | 0                  | PASS    |
|           |         |         | TN    | VH    | 5239.985        | -2.862595          | PASS    |
| 11N20     | Ant2    | 5745    | TN    | VL    | 5744.985        | -2.610966          | PASS    |
|           |         |         | TN    | VN    | 5745.09         | -2.610966          | PASS    |
|           |         |         | TN    | VH    | 5744.985        | -7.832898          | PASS    |

|       |      |      |    |    |          |           |      |
|-------|------|------|----|----|----------|-----------|------|
| 11N20 | Ant2 | 5785 | TN | VL | 5785.015 | 2.592913  | PASS |
|       |      |      | TN | VN | 5784.97  | -5.185825 | PASS |
|       |      |      | TN | VH | 5785.015 | 2.592913  | PASS |
| 11N20 | Ant2 | 5825 | TN | VL | 5824.985 | -2.575107 | PASS |
|       |      |      | TN | VN | 5824.97  | -5.150215 | PASS |
|       |      |      | TN | VH | 5825     | 0         | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11N40     | Ant2    | 5190    | TN    | VL    | 5189.91         | -17.34104          | PASS    |
|           |         |         | TN    | VN    | 5190            | 0                  | PASS    |
|           |         |         | TN    | VH    | 5190.06         | 11.560694          | PASS    |
| 11N40     | Ant2    | 5230    | TN    | VL    | 5230            | 0                  | PASS    |
|           |         |         | TN    | VN    | 5229.97         | -5.736138          | PASS    |
|           |         |         | TN    | VH    | 5230            | 0                  | PASS    |
| 11N40     | Ant2    | 5755    | TN    | VL    | 5755            | 0                  | PASS    |
|           |         |         | TN    | VN    | 5755.03         | 5.212858           | PASS    |
|           |         |         | TN    | VH    | 5754.97         | -5.212858          | PASS    |
| 11N40     | Ant2    | 5795    | TN    | VL    | 5794.97         | -5.176877          | PASS    |
|           |         |         | TN    | VN    | 5795.03         | 5.176877           | PASS    |

|  |  |  |    |    |         |          |      |
|--|--|--|----|----|---------|----------|------|
|  |  |  | TN | VH | 5795.03 | 5.176877 | PASS |
|--|--|--|----|----|---------|----------|------|

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11AC20    | Ant2    | 5180    | TN    | VL    | 5179.97         | -5.791506          | PASS    |
|           |         |         | TN    | VN    | 5179.97         | -5.791506          | PASS    |
|           |         |         | TN    | VH    | 5180            | 0                  | PASS    |
| 11AC20    | Ant2    | 5200    | TN    | VL    | 5200.03         | 5.769231           | PASS    |
|           |         |         | TN    | VN    | 5200.03         | 5.769231           | PASS    |
|           |         |         | TN    | VH    | 5199.94         | -11.538462         | PASS    |
| 11AC20    | Ant2    | 5240    | TN    | VL    | 5240.015        | 2.862595           | PASS    |
|           |         |         | TN    | VN    | 5240.015        | 2.862595           | PASS    |
|           |         |         | TN    | VH    | 5240.03         | 5.725191           | PASS    |
| 11AC20    | Ant2    | 5745    | TN    | VL    | 5745            | 0                  | PASS    |
|           |         |         | TN    | VN    | 5744.97         | -5.221932          | PASS    |
|           |         |         | TN    | VH    | 5745.03         | 5.221932           | PASS    |
| 11AC20    | Ant2    | 5785    | TN    | VL    | 5785.03         | 5.185825           | PASS    |
|           |         |         | TN    | VN    | 5785.015        | 2.592913           | PASS    |
|           |         |         | TN    | VH    | 5785.045        | 7.778738           | PASS    |
| 11AC20    | Ant2    | 5825    | TN    | VL    | 5825.015        | 2.575107           | PASS    |
|           |         |         | TN    | VN    | 5825.015        | 2.575107           | PASS    |
|           |         |         | TN    | VH    | 5825.015        | 2.575107           | PASS    |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11AC40    | Ant2    | 5190    | TN    | VL    | 5190.03         | 5.780347           | PASS    |
|           |         |         | TN    | VN    | 5190.06         | 11.560694          | PASS    |
|           |         |         | TN    | VH    | 5190.03         | 5.780347           | PASS    |
| 11AC40    | Ant2    | 5230    | TN    | VL    | 5230.06         | 11.472275          | PASS    |
|           |         |         | TN    | VN    | 5230.09         | 17.208413          | PASS    |
|           |         |         | TN    | VH    | 5229.97         | -5.736138          | PASS    |
| 11AC40    | Ant2    | 5755    | TN    | VL    | 5755.03         | 5.212858           | PASS    |
|           |         |         | TN    | VN    | 5755.06         | 10.425717          | PASS    |
|           |         |         | TN    | VH    | 5755            | 0                  | PASS    |

|        |      |      |    |    |         |            |      |
|--------|------|------|----|----|---------|------------|------|
| 11AC40 | Ant2 | 5795 | TN | VL | 5795.06 | 10.353753  | PASS |
|        |      |      | TN | VN | 5795.09 | 15.53063   | PASS |
|        |      |      | TN | VH | 5794.94 | -10.353753 | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11AC80    | Ant2    | 5210    | TN    | VL    | 5210            | 0                  | PASS    |
|           |         |         | TN    | VN    | 5209.92         | -15.355086         | PASS    |
|           |         |         | TN    | VH    | 5210.08         | 15.355086          | PASS    |
| 11AC80    | Ant2    | 5775    | TN    | VL    | 5775            | 0                  | PASS    |
|           |         |         | TN    | VN    | 5775            | 0                  | PASS    |
|           |         |         | TN    | VH    | 5774.92         | -13.852814         | PASS    |

**Frequency Error vs. Temperature:**
**WC0PR1601: Antenna 2**

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11A       | Ant2    | 5180    | 50    | VN    | 5180            | 0                  | PASS    |
|           |         |         | 40    | VN    | 5179.94         | -11.583012         | PASS    |
|           |         |         | 30    | VN    | 5179.985        | -2.895753          | PASS    |
|           |         |         | 20    | VN    | 5180.015        | 2.895753           | PASS    |
|           |         |         | 10    | VN    | 5179.925        | -14.478764         | PASS    |
|           |         |         | 0     | VN    | 5180            | 0                  | PASS    |
| 11A       | Ant2    | 5200    | 50    | VN    | 5199.97         | -5.769231          | PASS    |
|           |         |         | 40    | VN    | 5200.06         | 11.538462          | PASS    |
|           |         |         | 30    | VN    | 5200.03         | 5.769231           | PASS    |
|           |         |         | 20    | VN    | 5200.06         | 11.538462          | PASS    |
|           |         |         | 10    | VN    | 5199.94         | -11.538462         | PASS    |
|           |         |         | 0     | VN    | 5199.97         | -5.769231          | PASS    |
| 11A       | Ant2    | 5240    | 50    | VN    | 5240.03         | 5.725191           | PASS    |
|           |         |         | 40    | VN    | 5240.06         | 11.450382          | PASS    |
|           |         |         | 30    | VN    | 5240.075        | 14.312977          | PASS    |
|           |         |         | 20    | VN    | 5240.09         | 17.175573          | PASS    |
|           |         |         | 10    | VN    | 5240.045        | 8.587786           | PASS    |
|           |         |         | 0     | VN    | 5240.03         | 5.725191           | PASS    |
| 11A       | Ant2    | 5745    | 50    | VN    | 5745.06         | 10.443864          | PASS    |
|           |         |         | 40    | VN    | 5745.06         | 10.443864          | PASS    |
|           |         |         | 30    | VN    | 5745.06         | 10.443864          | PASS    |
|           |         |         | 20    | VN    | 5744.97         | -5.221932          | PASS    |
|           |         |         | 10    | VN    | 5745            | 0                  | PASS    |
|           |         |         | 0     | VN    | 5745.015        | 2.610966           | PASS    |
| 11A       | Ant2    | 5785    | 50    | VN    | 5785.045        | 7.778738           | PASS    |
|           |         |         | 40    | VN    | 5784.97         | -5.185825          | PASS    |
|           |         |         | 30    | VN    | 5785.045        | 7.778738           | PASS    |
|           |         |         | 20    | VN    | 5784.97         | -5.185825          | PASS    |
|           |         |         | 10    | VN    | 5785.03         | 5.185825           | PASS    |
|           |         |         | 0     | VN    | 5784.955        | -7.778738          | PASS    |
| 11A       | Ant2    | 5825    | 50    | VN    | 5824.985        | -2.575107          | PASS    |
|           |         |         | 40    | VN    | 5825.03         | 5.150215           | PASS    |
|           |         |         | 30    | VN    | 5825            | 0                  | PASS    |

|  |  |    |    |         |           |      |
|--|--|----|----|---------|-----------|------|
|  |  | 20 | VN | 5825.03 | 5.150215  | PASS |
|  |  | 10 | VN | 5825    | 0         | PASS |
|  |  | 0  | VN | 5825.06 | 10.300429 | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11N20     | Ant2    | 5180    | 50    | VN    | 5179.91         | -17.374517         | PASS    |
|           |         |         | 40    | VN    | 5179.985        | -2.895753          | PASS    |
|           |         |         | 30    | VN    | 5179.97         | -5.791506          | PASS    |
|           |         |         | 20    | VN    | 5180.015        | 2.895753           | PASS    |
|           |         |         | 10    | VN    | 5179.925        | -14.478764         | PASS    |
|           |         |         | 0     | VN    | 5179.97         | -5.791506          | PASS    |
| 11N20     | Ant2    | 5200    | 50    | VN    | 5200.015        | 2.884615           | PASS    |
|           |         |         | 40    | VN    | 5199.985        | -2.884615          | PASS    |
|           |         |         | 30    | VN    | 5199.97         | -5.769231          | PASS    |
|           |         |         | 20    | VN    | 5200.03         | 5.769231           | PASS    |
|           |         |         | 10    | VN    | 5199.94         | -11.538462         | PASS    |
|           |         |         | 0     | VN    | 5200.06         | 11.538462          | PASS    |
| 11N20     | Ant2    | 5240    | 50    | VN    | 5240            | 0                  | PASS    |
|           |         |         | 40    | VN    | 5239.985        | -2.862595          | PASS    |
|           |         |         | 30    | VN    | 5239.97         | -5.725191          | PASS    |
|           |         |         | 20    | VN    | 5240.015        | 2.862595           | PASS    |
|           |         |         | 10    | VN    | 5240.015        | 2.862595           | PASS    |
|           |         |         | 0     | VN    | 5240.03         | 5.725191           | PASS    |
| 11N20     | Ant2    | 5745    | 50    | VN    | 5744.94         | -10.443864         | PASS    |
|           |         |         | 40    | VN    | 5744.985        | -2.610966          | PASS    |
|           |         |         | 30    | VN    | 5745            | 0                  | PASS    |
|           |         |         | 20    | VN    | 5745.015        | 2.610966           | PASS    |
|           |         |         | 10    | VN    | 5744.925        | -13.05483          | PASS    |
|           |         |         | 0     | VN    | 5745.09         | 15.665796          | PASS    |
| 11N20     | Ant2    | 5785    | 50    | VN    | 5784.97         | -5.185825          | PASS    |
|           |         |         | 40    | VN    | 5784.97         | -5.185825          | PASS    |
|           |         |         | 30    | VN    | 5785.03         | 5.185825           | PASS    |
|           |         |         | 20    | VN    | 5785.015        | 2.592913           | PASS    |
|           |         |         | 10    | VN    | 5785            | 0                  | PASS    |
|           |         |         | 0     | VN    | 5784.97         | -5.185825          | PASS    |
| 11N20     | Ant2    | 5825    | 50    | VN    | 5824.955        | -7.725322          | PASS    |
|           |         |         | 40    | VN    | 5825.015        | 2.575107           | PASS    |

|  |  |  |    |    |          |           |      |
|--|--|--|----|----|----------|-----------|------|
|  |  |  | 30 | VN | 5824.985 | -2.575107 | PASS |
|  |  |  | 20 | VN | 5825     | 0         | PASS |
|  |  |  | 10 | VN | 5825.075 | 12.875536 | PASS |
|  |  |  | 0  | VN | 5824.97  | -5.150215 | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11N40     | Ant2    | 5190    | 50    | VN    | 5190            | 0                  | PASS    |
|           |         |         | 40    | VN    | 5190            | 0                  | PASS    |
|           |         |         | 30    | VN    | 5190            | 0                  | PASS    |
|           |         |         | 20    | VN    | 5190            | 0                  | PASS    |
|           |         |         | 10    | VN    | 5189.97         | -5.780347          | PASS    |
|           |         |         | 0     | VN    | 5190            | 0                  | PASS    |
| 11N40     | Ant2    | 5230    | 50    | VN    | 5230.06         | 11.472275          | PASS    |
|           |         |         | 40    | VN    | 5230            | 0                  | PASS    |
|           |         |         | 30    | VN    | 5230.03         | 5.736138           | PASS    |
|           |         |         | 20    | VN    | 5230            | 0                  | PASS    |
|           |         |         | 10    | VN    | 5230.03         | 5.736138           | PASS    |
|           |         |         | 0     | VN    | 5230.03         | 5.736138           | PASS    |
| 11N40     | Ant2    | 5755    | 50    | VN    | 5755.06         | 10.425717          | PASS    |
|           |         |         | 40    | VN    | 5755            | 0                  | PASS    |
|           |         |         | 30    | VN    | 5755.03         | 5.212858           | PASS    |
|           |         |         | 20    | VN    | 5755            | 0                  | PASS    |
|           |         |         | 10    | VN    | 5755.03         | 5.212858           | PASS    |
|           |         |         | 0     | VN    | 5755            | 0                  | PASS    |
| 11N40     | Ant2    | 5795    | 50    | VN    | 5795            | 0                  | PASS    |
|           |         |         | 40    | VN    | 5794.97         | -5.176877          | PASS    |
|           |         |         | 30    | VN    | 5795.03         | 5.176877           | PASS    |
|           |         |         | 20    | VN    | 5795            | 0                  | PASS    |
|           |         |         | 10    | VN    | 5795.06         | 10.353753          | PASS    |
|           |         |         | 0     | VN    | 5795            | 0                  | PASS    |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11AC20    | Ant2    | 5180    | 50    | VN    | 5180.015        | 2.895753           | PASS    |
|           |         |         | 40    | VN    | 5179.985        | -2.895753          | PASS    |
|           |         |         | 30    | VN    | 5179.97         | -5.791506          | PASS    |
|           |         |         | 20    | VN    | 5180.015        | 2.895753           | PASS    |
|           |         |         | 10    | VN    | 5180.015        | 2.895753           | PASS    |
|           |         |         | 0     | VN    | 5179.955        | -8.687259          | PASS    |
| 11AC20    | Ant2    | 5200    | 50    | VN    | 5200.03         | 5.769231           | PASS    |
|           |         |         | 40    | VN    | 5200.015        | 2.884615           | PASS    |
|           |         |         | 30    | VN    | 5200.09         | 17.307692          | PASS    |
|           |         |         | 20    | VN    | 5199.955        | -8.653846          | PASS    |
|           |         |         | 10    | VN    | 5199.985        | -2.884615          | PASS    |
|           |         |         | 0     | VN    | 5199.97         | -5.769231          | PASS    |
| 11AC20    | Ant2    | 5240    | 50    | VN    | 5240            | 0                  | PASS    |
|           |         |         | 40    | VN    | 5239.985        | -2.862595          | PASS    |
|           |         |         | 30    | VN    | 5240.045        | 8.587786           | PASS    |
|           |         |         | 20    | VN    | 5239.985        | -2.862595          | PASS    |
|           |         |         | 10    | VN    | 5240.045        | 8.587786           | PASS    |
|           |         |         | 0     | VN    | 5240.045        | 8.587786           | PASS    |
| 11AC20    | Ant2    | 5745    | 50    | VN    | 5744.955        | -7.832898          | PASS    |
|           |         |         | 40    | VN    | 5745.015        | 2.610966           | PASS    |
|           |         |         | 30    | VN    | 5744.985        | -2.610966          | PASS    |
|           |         |         | 20    | VN    | 5745            | 0                  | PASS    |
|           |         |         | 10    | VN    | 5744.895        | -18.276762         | PASS    |
|           |         |         | 0     | VN    | 5744.94         | -10.443864         | PASS    |
| 11AC20    | Ant2    | 5785    | 50    | VN    | 5785            | 0                  | PASS    |
|           |         |         | 40    | VN    | 5784.97         | -5.185825          | PASS    |
|           |         |         | 30    | VN    | 5785.015        | 2.592913           | PASS    |
|           |         |         | 20    | VN    | 5784.985        | -2.592913          | PASS    |
|           |         |         | 10    | VN    | 5784.97         | -5.185825          | PASS    |
|           |         |         | 0     | VN    | 5784.94         | -10.371651         | PASS    |
| 11AC20    | Ant2    | 5825    | 50    | VN    | 5824.91         | -15.450644         | PASS    |
|           |         |         | 40    | VN    | 5825.015        | 2.575107           | PASS    |
|           |         |         | 30    | VN    | 5825            | 0                  | PASS    |
|           |         |         | 20    | VN    | 5824.94         | -10.300429         | PASS    |
|           |         |         | 10    | VN    | 5825            | 0                  | PASS    |
|           |         |         | 0     | VN    | 5824.94         | -10.300429         | PASS    |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11AC40    | Ant2    | 5190    | 50    | VN    | 5190.03         | 5.780347           | PASS    |
|           |         |         | 40    | VN    | 5190            | 0                  | PASS    |
|           |         |         | 30    | VN    | 5190.03         | 5.780347           | PASS    |
|           |         |         | 20    | VN    | 5190            | 0                  | PASS    |
|           |         |         | 10    | VN    | 5190.03         | 5.780347           | PASS    |
|           |         |         | 0     | VN    | 5190.03         | 5.780347           | PASS    |
| 11AC40    | Ant2    | 5230    | 50    | VN    | 5230            | 0                  | PASS    |
|           |         |         | 40    | VN    | 5230.03         | 5.736138           | PASS    |
|           |         |         | 30    | VN    | 5230.03         | 5.736138           | PASS    |
|           |         |         | 20    | VN    | 5230            | 0                  | PASS    |
|           |         |         | 10    | VN    | 5230            | 0                  | PASS    |
|           |         |         | 0     | VN    | 5229.91         | -17.208413         | PASS    |
| 11AC40    | Ant2    | 5755    | 50    | VN    | 5755.06         | 10.425717          | PASS    |
|           |         |         | 40    | VN    | 5754.94         | -10.425717         | PASS    |
|           |         |         | 30    | VN    | 5755.03         | 5.212858           | PASS    |
|           |         |         | 20    | VN    | 5755            | 0                  | PASS    |
|           |         |         | 10    | VN    | 5755.06         | 10.425717          | PASS    |
|           |         |         | 0     | VN    | 5755.06         | 10.425717          | PASS    |
| 11AC40    | Ant2    | 5795    | 50    | VN    | 5795.03         | 5.176877           | PASS    |
|           |         |         | 40    | VN    | 5794.97         | -5.176877          | PASS    |
|           |         |         | 30    | VN    | 5795            | 0                  | PASS    |
|           |         |         | 20    | VN    | 5795            | 0                  | PASS    |
|           |         |         | 10    | VN    | 5795            | 0                  | PASS    |
|           |         |         | 0     | VN    | 5795.03         | 5.176877           | PASS    |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|-----------|---------|---------|-------|-------|-----------------|--------------------|---------|
| 11AC80    | Ant2    | 5210    | 50    | VN    | 5210.08         | 15.355086          | PASS    |
|           |         |         | 40    | VN    | 5210.08         | 15.355086          | PASS    |
|           |         |         | 30    | VN    | 5210.08         | 15.355086          | PASS    |
|           |         |         | 20    | VN    | 5210.08         | 15.355086          | PASS    |
|           |         |         | 10    | VN    | 5210            | 0                  | PASS    |
|           |         |         | 0     | VN    | 5210            | 0                  | PASS    |
| 11AC80    | Ant2    | 5775    | 50    | VN    | 5775            | 0                  | PASS    |
|           |         |         | 40    | VN    | 5775.08         | 13.852814          | PASS    |
|           |         |         | 30    | VN    | 5775.08         | 13.852814          | PASS    |
|           |         |         | 20    | VN    | 5775.08         | 13.852814          | PASS    |
|           |         |         | 10    | VN    | 5775.08         | 13.852814          | PASS    |
|           |         |         | 0     | VN    | 5775.08         | 13.852814          | PASS    |

## Appendix F): Antenna Requirement

### 15.203 requirement:

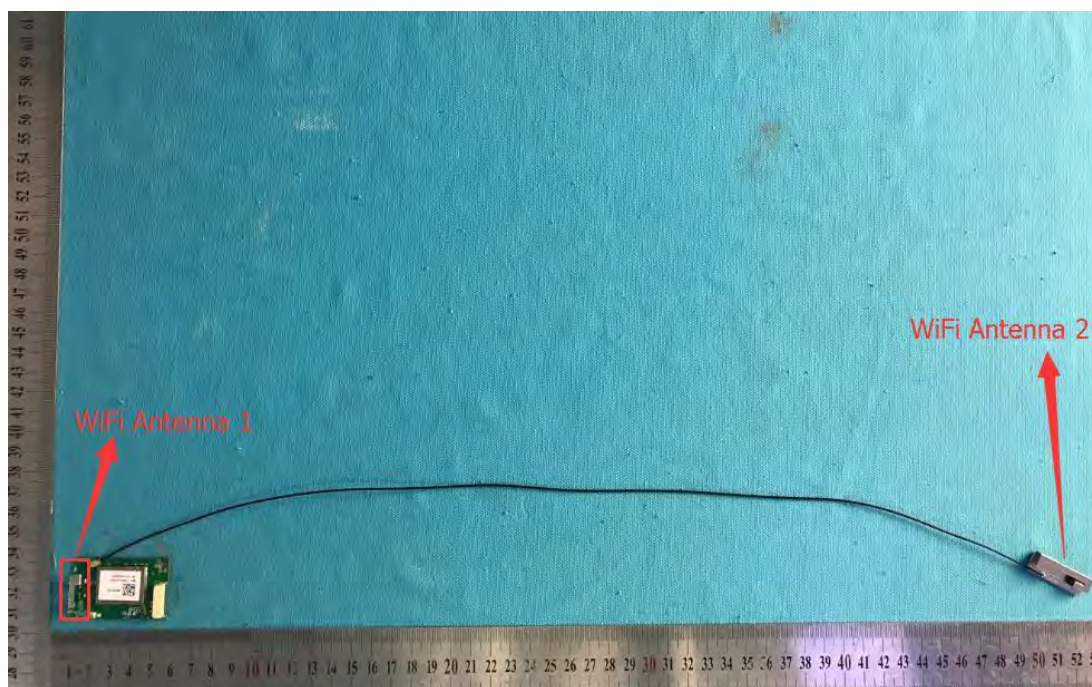
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 15.407(a)(1) (2) requirement:

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the 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.

### EUT Antenna:

The antenna is PIFA Antenna and no consideration of replacement. The best case gain of the antenna is 3dBi.



## Appendix G): Operation in the absence of information to the transmit

### 15.407(c) requirement:

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 signal ling 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 a description of how this requirement is met.

### Operation in the absence of information to the transmit

Operation never ceases as information from cell town is always present. (manufacturer declare )

## Appendix H): AC Power Line Conducted Emission

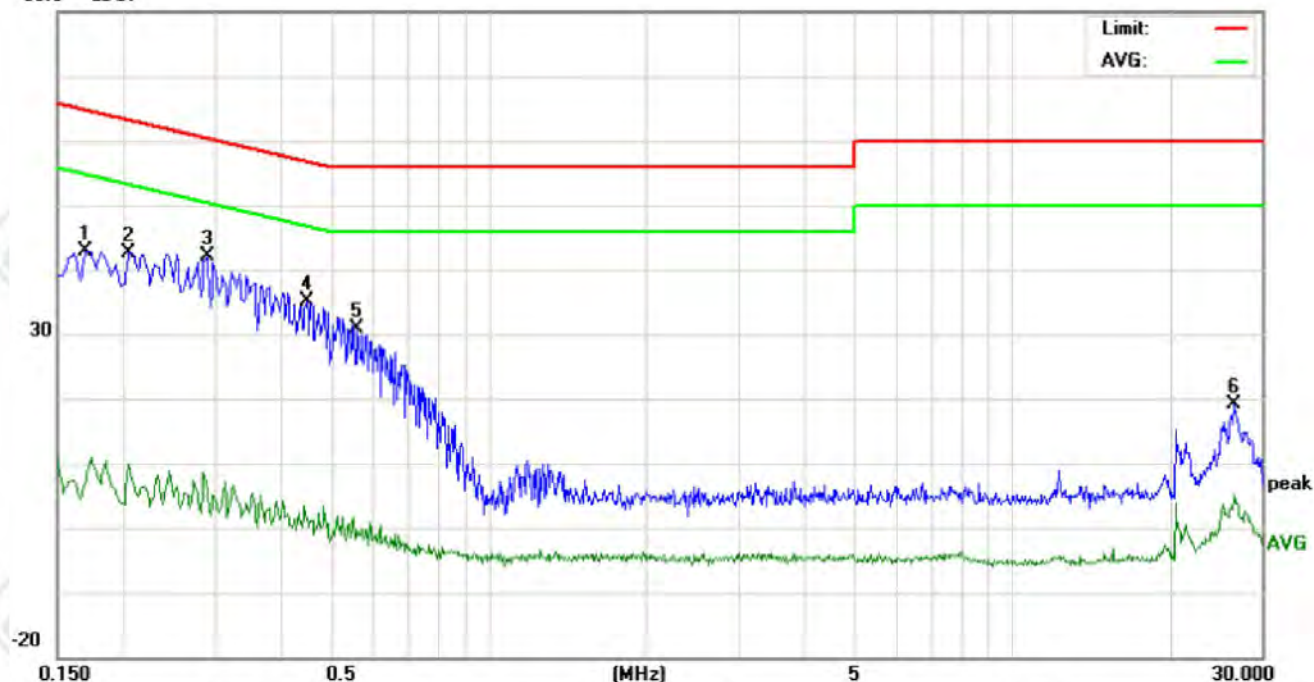
| Test Procedure:       | Test frequency range :150KHz-30MHz<br>1) The mains terminal disturbance voltage test was conducted in a shielded room.<br>2) The EUT was connected to AC power source through a LISN 1 (LineImpedance Stabilization Network) which provides 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT wereconnected to a second LISN 2, which was bonded to the groundreference plane in the same way as the LISN 1 for the unit beingmeasured. A multiple socket outlet strip was used to connect multiplepower cables to a single LISN provided the rating of the LISN was not exceeded.<br>3) The tabletop EUT was placed upon a non-metallic table 0.8m above theground reference plane. And for floor-standing arrangement, the EUT wasplaced on the horizontal ground reference plane,<br>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal groundreference plane. The LISN 1 was placed 0.8 m from the boundary of theunit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance wasbetween the closest points of the LISN 1 and the EUT. All other unit ofthe EUT and associated equipment was at least 0.8 m from the LISN 2.<br>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement. |             |                |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|-----------------------|--------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Limit:                | <table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> <p>* The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.<br/>NOTE : The lower limit is applicable at the transition frequency</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                | Frequency range (MHz) | Limit (dBμV) |  | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 5-30 | 60 | 50 |
| Frequency range (MHz) | Limit (dBμV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|                       | Quasi-peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Average     |                |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.15-0.5              | 66 to 56*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 56 to 46*   |                |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.5-5                 | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 46          |                |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 5-30                  | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 50          |                |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Ambient:         | Temp.: 25°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Humid.: 52% | Press.: 101kPa |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |

### Measurement Data

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

Live line:

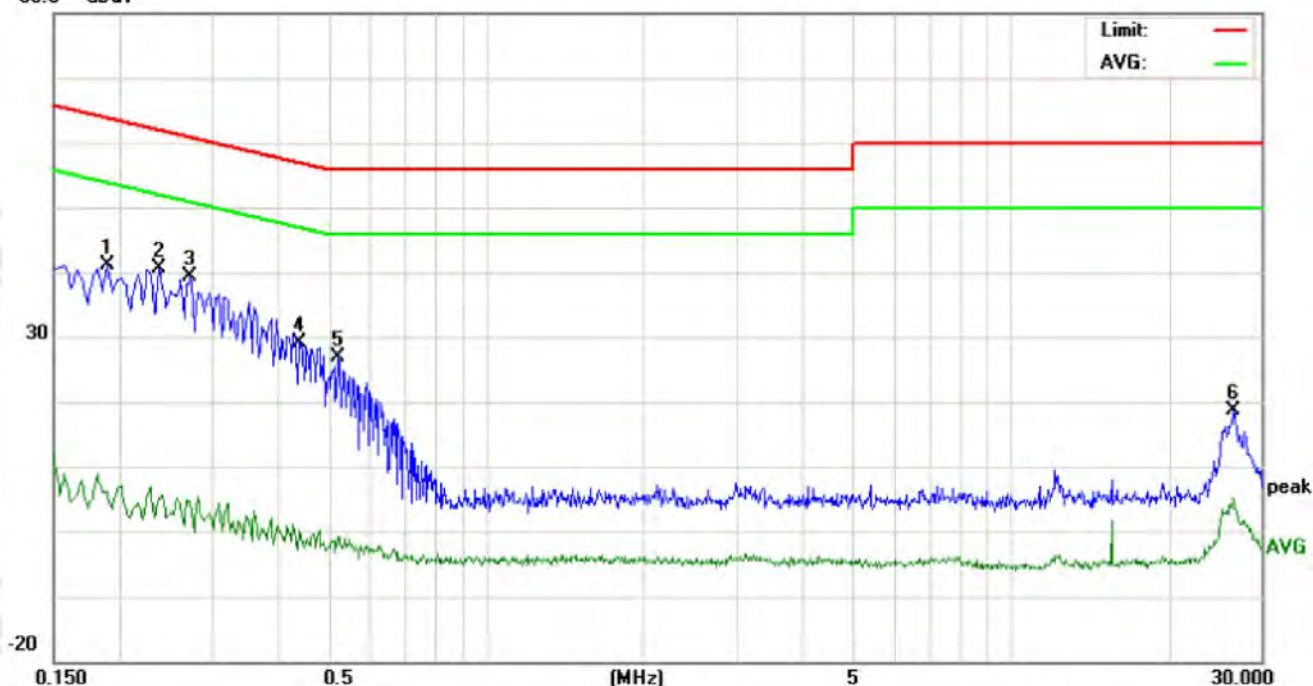
80.0 dBuV



| No. | Freq.<br>MHz | Reading_Level<br>(dBuV) |       |       | Correct<br>Factor<br>dB | Measurement<br>(dBuV) |       |       | Limit<br>(dBuV) |       | Margin<br>(dB) |        | P/F | Comment |
|-----|--------------|-------------------------|-------|-------|-------------------------|-----------------------|-------|-------|-----------------|-------|----------------|--------|-----|---------|
|     |              | Peak                    | QP    | AVG   |                         | peak                  | QP    | AVG   | QP              | AVG   | QP             | AVG    |     |         |
| 1   | 0.1700       | 33.05                   | 30.46 | -3.00 | 9.91                    | 42.96                 | 40.37 | 6.91  | 64.96           | 54.96 | -24.59         | -48.05 | P   |         |
| 2   | 0.2060       | 32.75                   | 29.64 | -0.03 | 9.92                    | 42.67                 | 39.56 | 9.89  | 63.36           | 53.36 | -23.80         | -43.47 | P   |         |
| 3   | 0.2900       | 32.02                   | 29.74 | -3.80 | 9.99                    | 42.01                 | 39.73 | 6.19  | 60.52           | 50.52 | -20.79         | -44.33 | P   |         |
| 4   | 0.4500       | 25.22                   | 22.40 | -8.42 | 9.89                    | 35.11                 | 32.29 | 1.47  | 56.87           | 46.87 | -24.58         | -45.40 | P   |         |
| 5   | 0.5620       | 20.89                   | 16.52 | -10.6 | 9.99                    | 30.88                 | 26.51 | -0.70 | 56.00           | 46.00 | -29.49         | -46.70 | P   |         |
| 6   | 26.4380      | 9.22                    | 6.12  | -5.19 | 9.94                    | 19.16                 | 16.06 | 4.75  | 60.00           | 50.00 | -43.94         | -45.25 | P   |         |

Neutral line:

80.0 dBuV



| No. | Freq.<br>MHz | Reading_Level<br>(dBuV) |       |       | Correct<br>Factor<br>dB | Measurement<br>(dBuV) |       |       | Limit<br>(dBuV) |       | Margin<br>(dB) |        | P/F | Comment |
|-----|--------------|-------------------------|-------|-------|-------------------------|-----------------------|-------|-------|-----------------|-------|----------------|--------|-----|---------|
|     |              | Peak                    | QP    | AVG   |                         | peak                  | QP    | AVG   | QP              | AVG   | QP             | AVG    |     |         |
| 1   | 0.1900       | 31.30                   | 28.13 | -3.85 | 9.91                    | 41.21                 | 38.04 | 6.06  | 64.03           | 54.03 | -25.99         | -47.97 | P   |         |
| 2   | 0.2380       | 30.66                   | 27.33 | -4.80 | 9.94                    | 40.60                 | 37.27 | 5.14  | 62.16           | 52.16 | -24.89         | -47.02 | P   |         |
| 3   | 0.2740       | 29.35                   | 26.47 | -5.45 | 9.98                    | 39.33                 | 36.45 | 4.53  | 60.99           | 50.99 | -24.54         | -46.46 | P   |         |
| 4   | 0.4420       | 19.15                   | 16.52 | -9.83 | 9.89                    | 29.04                 | 26.41 | 0.06  | 57.02           | 47.02 | -30.61         | -46.96 | P   |         |
| 5   | 0.5220       | 17.07                   | 14.75 | -10.9 | 9.93                    | 27.00                 | 24.68 | -0.97 | 56.00           | 46.00 | -31.32         | -46.97 | P   |         |
| 6   | 26.5740      | 8.57                    | 4.56  | -4.82 | 9.94                    | 18.51                 | 14.50 | 5.12  | 60.00           | 50.00 | -45.50         | -44.88 | P   |         |

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

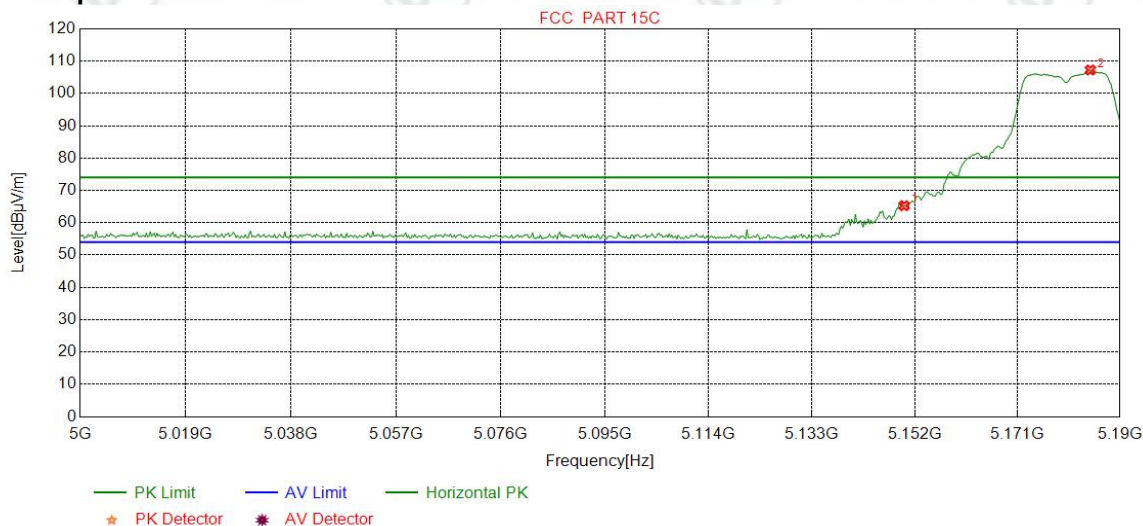
## Appendix I): Restricted bands around fundamental frequency (Radiated Emission)

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |             |                                     |                |                  |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|-------------------------------------|----------------|------------------|
| Receiver Setup: | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Detector      | RBW         | VBW                                 | Remark         |                  |
|                 | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quasi-peak    | 120kHz      | 300kHz                              | Quasi-peak     |                  |
|                 | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Peak          | 1MHz        | 3MHz                                | Peak           |                  |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Peak          | 1MHz        | VBW≤RBW/100,but not less than 10 Hz | Average        |                  |
| Test Procedure: | <b>Below 1GHz test procedure as below:</b><br>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.<br>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.<br>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.<br>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.<br>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.<br>Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel |               |             |                                     |                |                  |
|                 | <b>Above 1GHz test procedure as below:</b><br>Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).<br>Test the EUT in the lowest channel , the Highest channel<br>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.<br>Repeat above procedures until all frequencies measured was complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               |             |                                     |                |                  |
|                 | Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Frequency     |             | Limit (dBµV/m @3cm)                 |                | Remark           |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 30MHz-88MHz   |             | 40.0                                |                | Quasi-peak Value |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 88MHz-216MHz  |             | 43.5                                |                | Quasi-peak Value |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 216MHz-960MHz |             | 46.0                                |                | Quasi-peak Value |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 960MHz-1GHz   |             | 54.0                                |                | Quasi-peak Value |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Above 1GHz    |             | 54.0                                |                | Average Value    |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |             | 74.0                                |                | Peak Value       |
|                 | Note: Unless otherwise specified, for all frequencies greater than 1 GHz, the radiated emission limits for licence-exempt radio apparatus stated in applicable RSSs (including RSS-Gen) are based on measurements using a linear average detector function having a minimum resolution bandwidth of 1 MHz. If an average limit is specified for the EUT, then the peak emission shall also be measured with instrumentation properly adjusted for such factors as pulse desensitization to ensure the peak emission is less than 20 dB above the average limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |             |                                     |                |                  |
| Test Ambient:   | Temp.: 25°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               | Humid.: 51% |                                     | Press.: 101kPa |                  |

**Test plot as follows:**

|         |                                 |          |      |
|---------|---------------------------------|----------|------|
| Mode:   | 802.11 a(HT20Mbps) Transmitting | Channel: | 5180 |
| Remark: | PK                              |          |      |

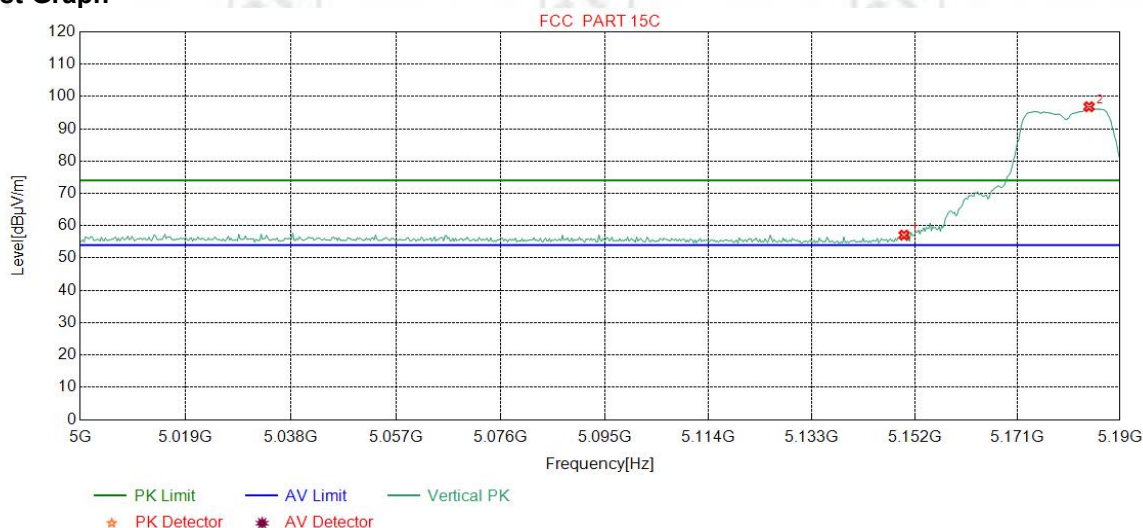
**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|------------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 56.08          | 65.27          | 74.00          | 8.73        | Pass   | Horizontal |
| 2  | 5184.5307   | 34.68           | 15.42           | -40.55          | 97.71          | 107.26         | 74.00          | -33.26      | Pass   | Horizontal |

|         |                                 |          |      |
|---------|---------------------------------|----------|------|
| Mode:   | 802.11 a(HT20Mbps) Transmitting | Channel: | 5180 |
| Remark: | PK                              |          |      |

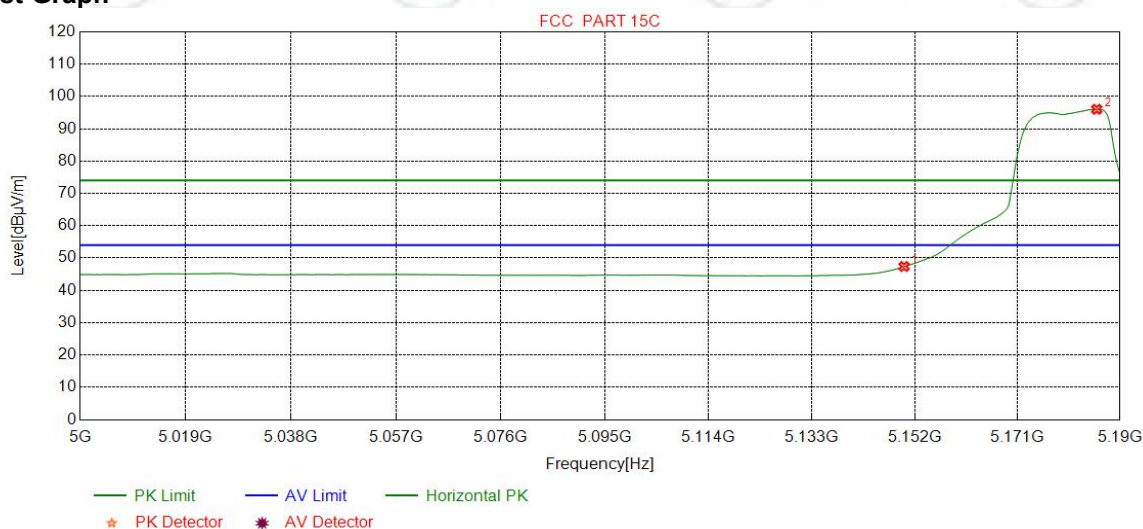
**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 47.89          | 57.08          | 74.00          | 16.92       | Pass   | Vertical |
| 2  | 5184.2929   | 34.68           | 15.42           | -40.55          | 87.28          | 96.83          | 74.00          | -22.83      | Pass   | Vertical |

|         |                                 |          |      |
|---------|---------------------------------|----------|------|
| Mode:   | 802.11 a(HT20Mbps) Transmitting | Channel: | 5180 |
| Remark: | AV                              |          |      |

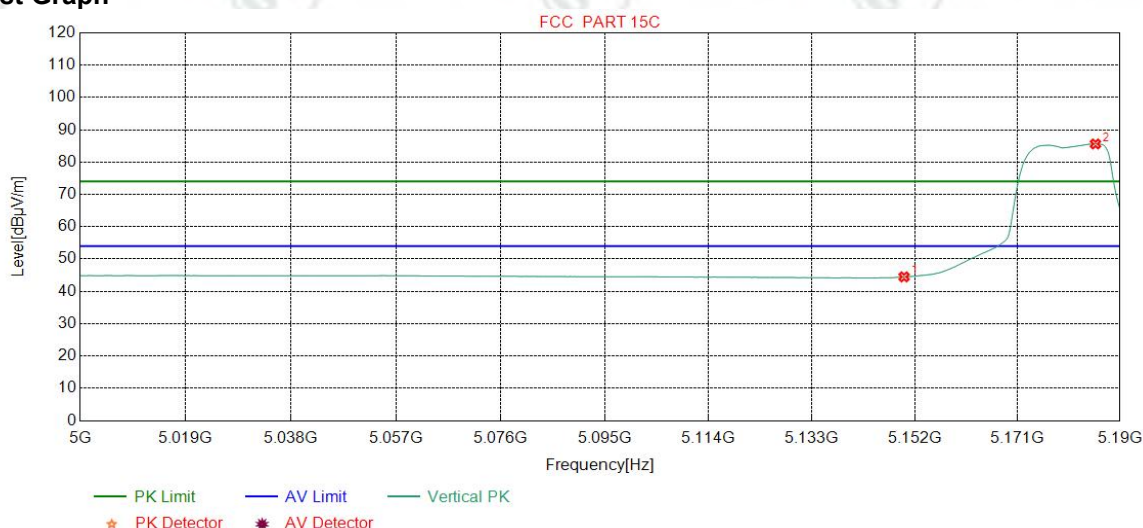
**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|------------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 38.20          | 47.39          | 54.00          | 6.61        | Pass   | Horizontal |
| 2  | 5185.7197   | 34.69           | 15.43           | -40.56          | 86.48          | 96.04          | 54.00          | -42.04      | Pass   | Horizontal |

|         |                                 |          |      |
|---------|---------------------------------|----------|------|
| Mode:   | 802.11 a(HT20Mbps) Transmitting | Channel: | 5180 |
| Remark: | AV                              |          |      |

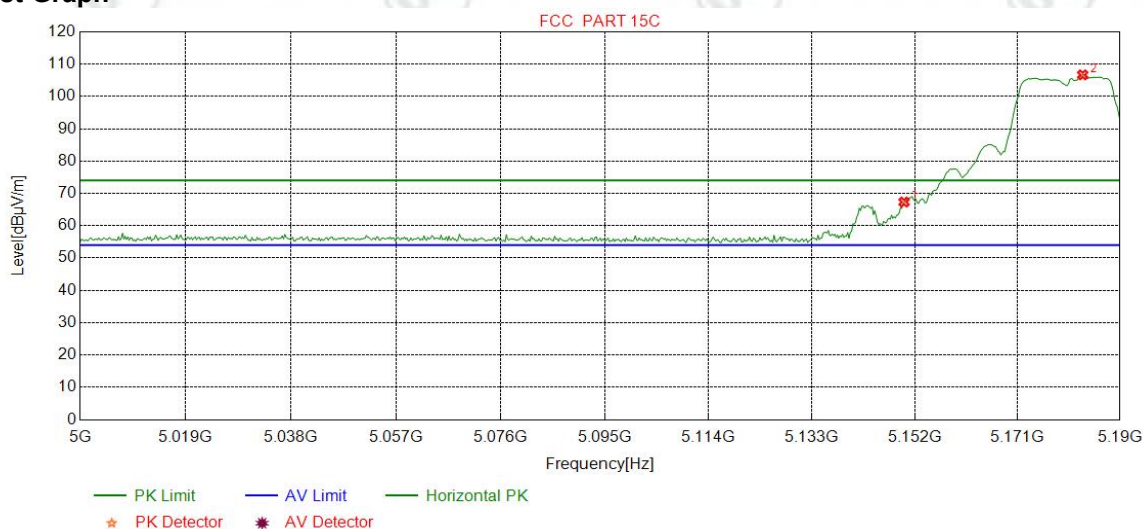
**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 35.30          | 44.49          | 54.00          | 9.51        | Pass   | Vertical |
| 2  | 5185.4819   | 34.69           | 15.43           | -40.56          | 76.06          | 85.62          | 54.00          | -31.62      | Pass   | Vertical |

|         |                                 |          |      |
|---------|---------------------------------|----------|------|
| Mode:   | 802.11 n(HT20Mbps) Transmitting | Channel: | 5180 |
| Remark: | PK                              |          |      |

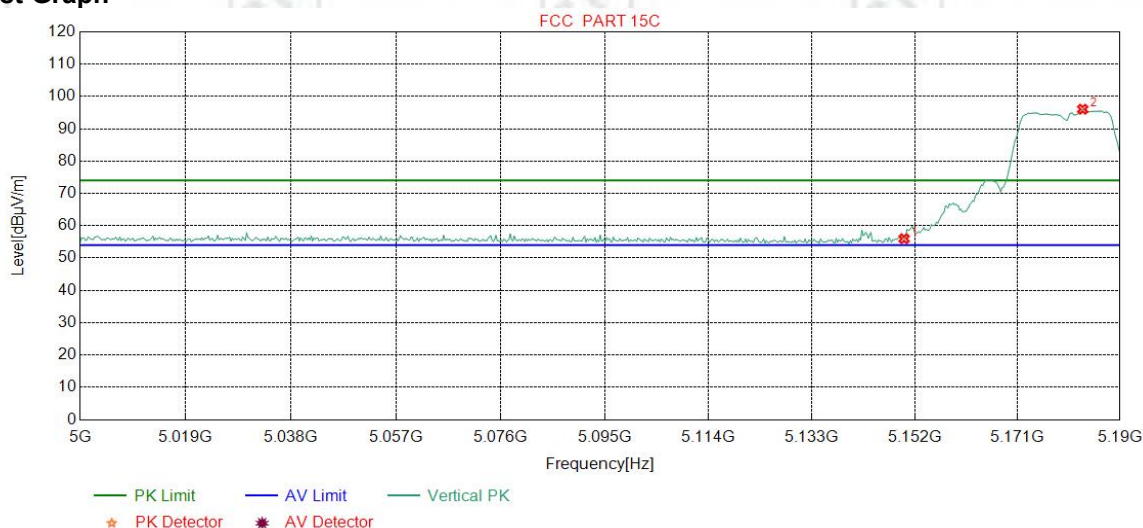
**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|------------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 58.14          | 67.33          | 74.00          | 6.67        | Pass   | Horizontal |
| 2  | 5183.1039   | 34.68           | 15.40           | -40.54          | 97.15          | 106.69         | 74.00          | -32.69      | Pass   | Horizontal |

|         |                                 |          |      |
|---------|---------------------------------|----------|------|
| Mode:   | 802.11 n(HT20Mbps) Transmitting | Channel: | 5180 |
| Remark: | PK                              |          |      |

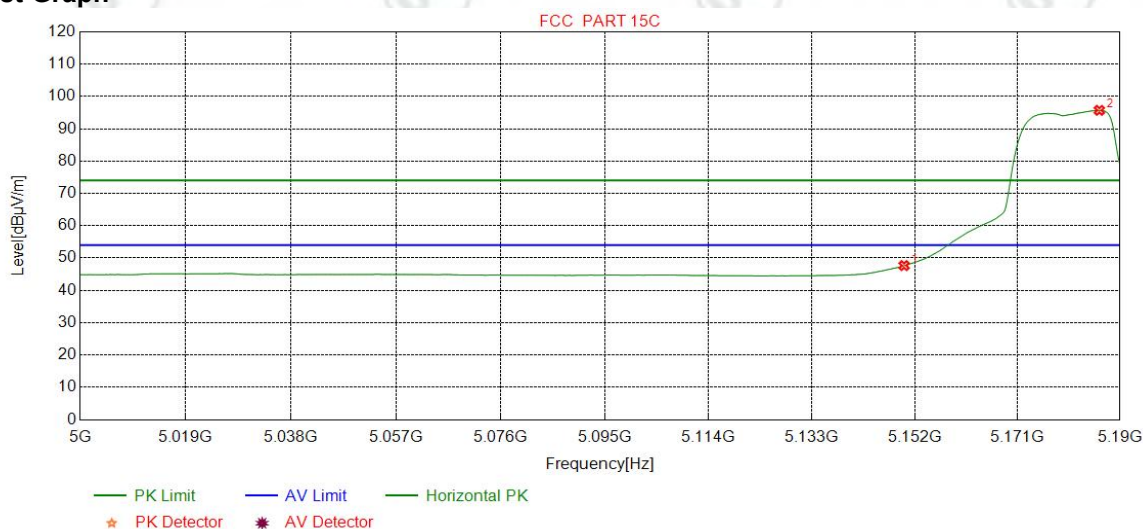
**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 46.80          | 55.99          | 74.00          | 18.01       | Pass   | Vertical |
| 2  | 5183.1039   | 34.68           | 15.40           | -40.54          | 86.52          | 96.06          | 74.00          | -22.06      | Pass   | Vertical |

|         |                                 |          |      |
|---------|---------------------------------|----------|------|
| Mode:   | 802.11 n(HT20Mbps) Transmitting | Channel: | 5180 |
| Remark: | AV                              |          |      |

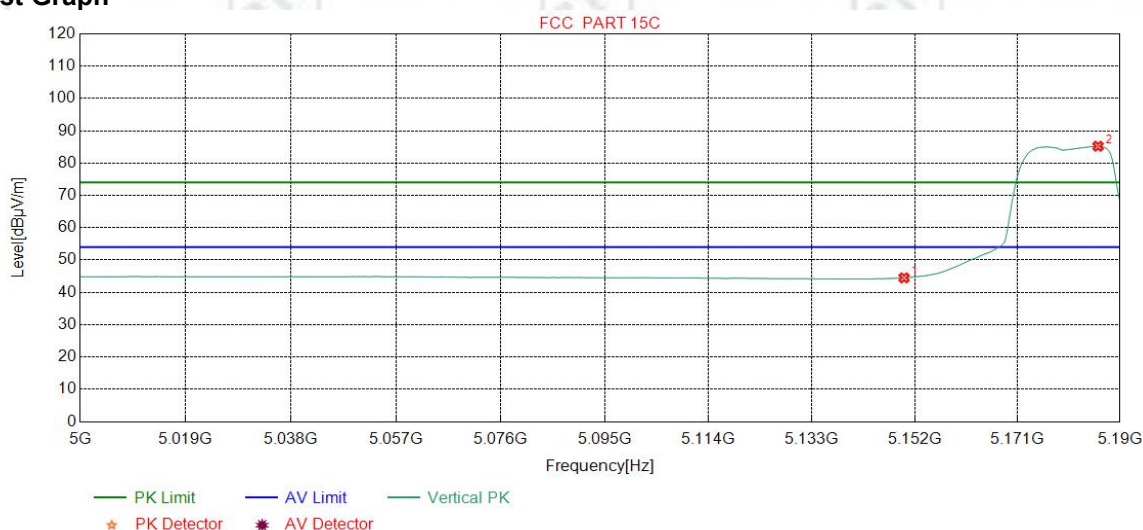
**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|------------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 38.48          | 47.67          | 54.00          | 6.33        | Pass   | Horizontal |
| 2  | 5186.1952   | 34.69           | 15.43           | -40.55          | 86.14          | 95.71          | 54.00          | -41.71      | Pass   | Horizontal |

|         |                                 |          |      |
|---------|---------------------------------|----------|------|
| Mode:   | 802.11 n(HT20Mbps) Transmitting | Channel: | 5180 |
| Remark: | AV                              |          |      |

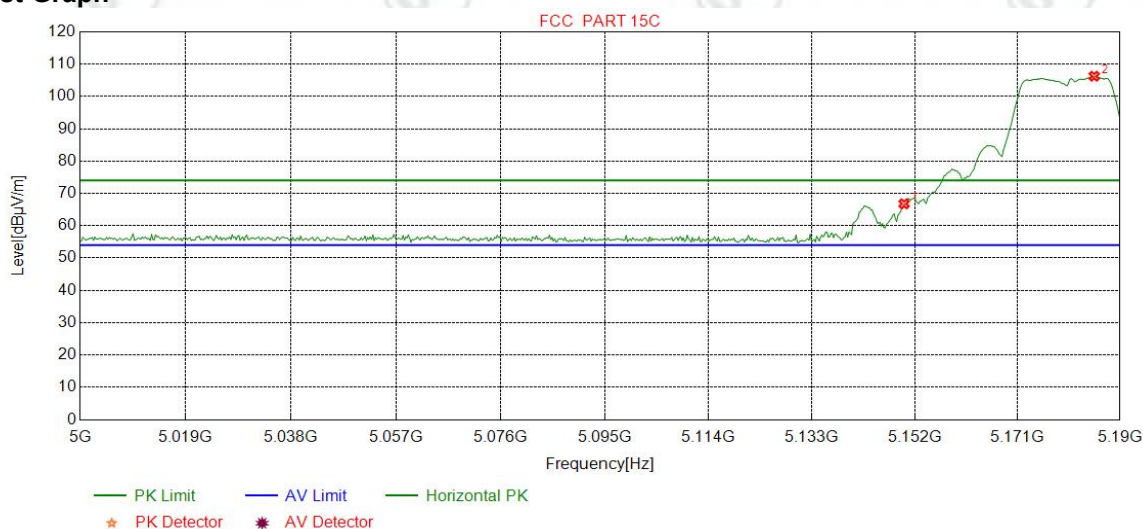
**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 35.30          | 44.49          | 54.00          | 9.51        | Pass   | Vertical |
| 2  | 5185.9574   | 34.69           | 15.43           | -40.55          | 75.65          | 85.22          | 54.00          | -31.22      | Pass   | Vertical |

|         |                                  |          |      |
|---------|----------------------------------|----------|------|
| Mode:   | 802.11 ac(HT20Mbps) Transmitting | Channel: | 5180 |
| Remark: | PK                               |          |      |

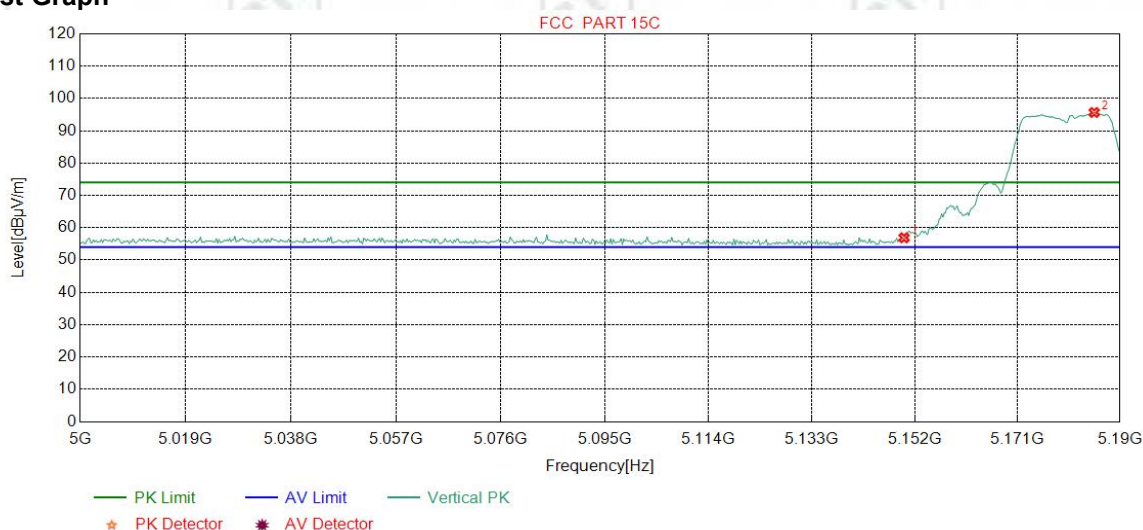
**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|------------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 57.60          | 66.79          | 74.00          | 7.21        | Pass   | Horizontal |
| 2  | 5185.2441   | 34.69           | 15.43           | -40.56          | 96.71          | 106.27         | 74.00          | -32.27      | Pass   | Horizontal |

|         |                                  |          |      |
|---------|----------------------------------|----------|------|
| Mode:   | 802.11 ac(HT20Mbps) Transmitting | Channel: | 5180 |
| Remark: | PK                               |          |      |

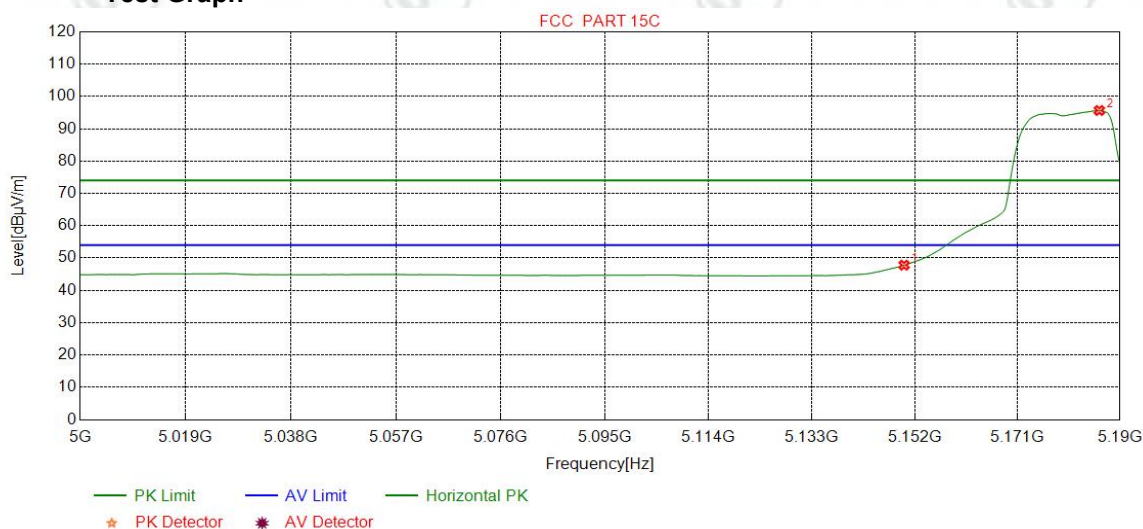
**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 47.70          | 56.89          | 74.00          | 17.11       | Pass   | Vertical |
| 2  | 5185.2441   | 34.69           | 15.43           | -40.56          | 86.10          | 95.66          | 74.00          | -21.66      | Pass   | Vertical |

|         |                                  |          |      |
|---------|----------------------------------|----------|------|
| Mode:   | 802.11 ac(HT20Mbps) Transmitting | Channel: | 5180 |
| Remark: | AV                               |          |      |

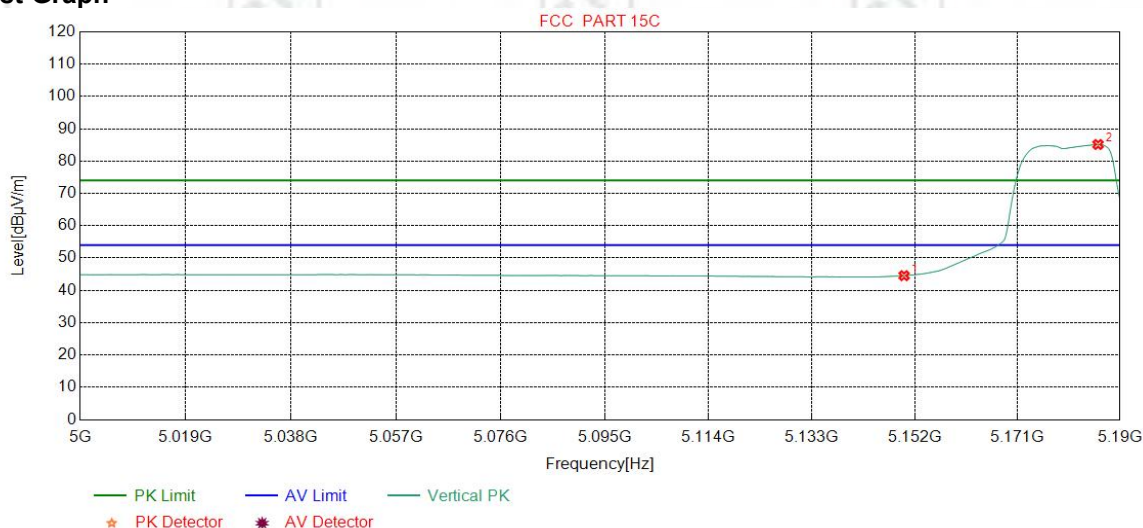
**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|------------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 38.62          | 47.81          | 54.00          | 6.19        | Pass   | Horizontal |
| 2  | 5186.1952   | 34.69           | 15.43           | -40.55          | 86.09          | 95.66          | 54.00          | -41.66      | Pass   | Horizontal |

|         |                                  |          |      |
|---------|----------------------------------|----------|------|
| Mode:   | 802.11 ac(HT20Mbps) Transmitting | Channel: | 5180 |
| Remark: | AV                               |          |      |

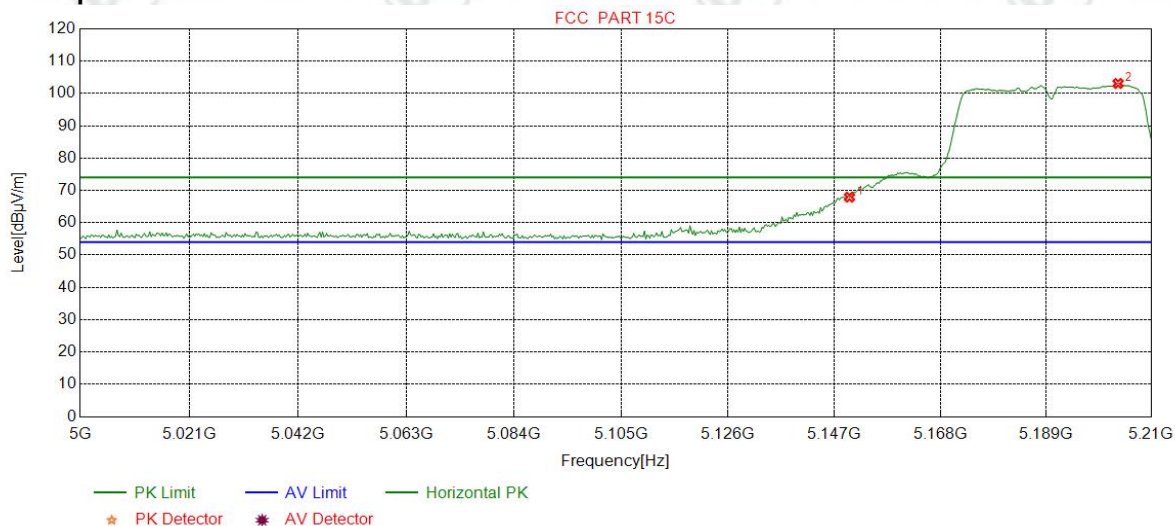
**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 35.36          | 44.55          | 54.00          | 9.45        | Pass   | Vertical |
| 2  | 5185.9574   | 34.69           | 15.43           | -40.55          | 75.57          | 85.14          | 54.00          | -31.14      | Pass   | Vertical |

|         |                                 |          |      |
|---------|---------------------------------|----------|------|
| Mode:   | 802.11 n(HT40Mbps) Transmitting | Channel: | 5190 |
| Remark: | PK                              |          |      |

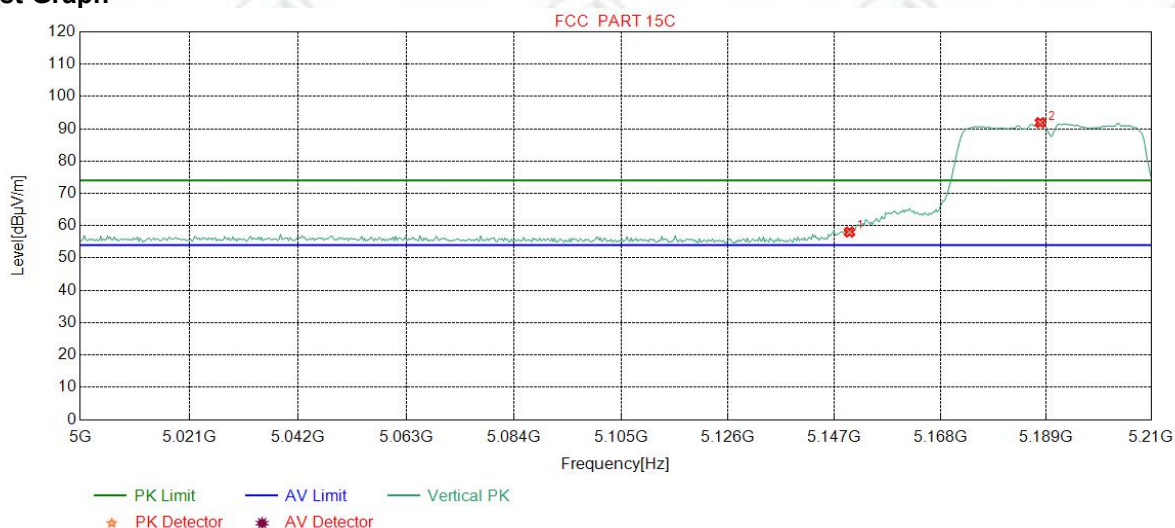
**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|------------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 58.73          | 67.92          | 74.00          | 6.08        | Pass   | Horizontal |
| 2  | 5203.4293   | 34.70           | 15.55           | -40.55          | 93.40          | 103.10         | 74.00          | -29.10      | Pass   | Horizontal |

|         |                                 |          |      |
|---------|---------------------------------|----------|------|
| Mode:   | 802.11 n(HT40Mbps) Transmitting | Channel: | 5190 |
| Remark: | PK                              |          |      |

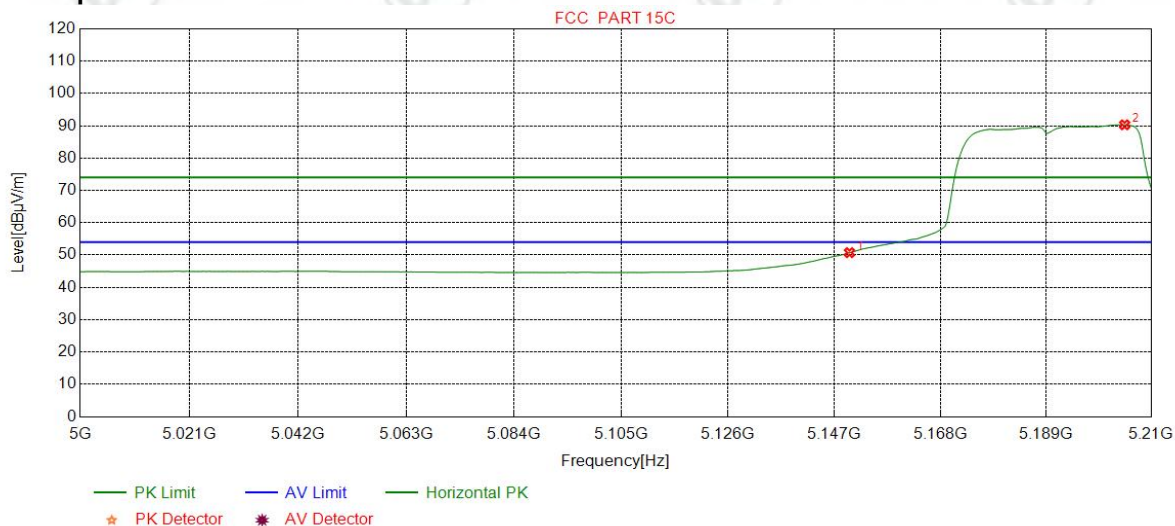
**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 48.86          | 58.05          | 74.00          | 15.95       | Pass   | Vertical |
| 2  | 5187.9224   | 34.69           | 15.45           | -40.55          | 82.33          | 91.92          | 74.00          | -17.92      | Pass   | Vertical |

|         |                                 |          |      |
|---------|---------------------------------|----------|------|
| Mode:   | 802.11 n(HT40Mbps) Transmitting | Channel: | 5190 |
| Remark: | AV                              |          |      |

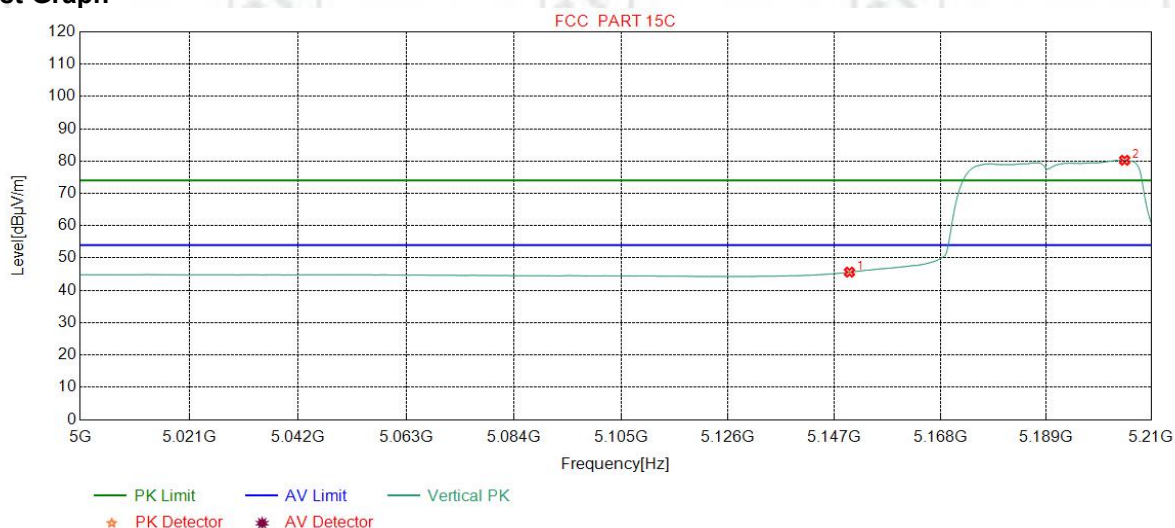
**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|------------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 41.55          | 50.74          | 54.00          | 3.26        | Pass   | Horizontal |
| 2  | 5204.7434   | 34.70           | 15.55           | -40.55          | 80.60          | 90.30          | 54.00          | -36.30      | Pass   | Horizontal |

|         |                                 |          |      |
|---------|---------------------------------|----------|------|
| Mode:   | 802.11 n(HT40Mbps) Transmitting | Channel: | 5190 |
| Remark: | AV                              |          |      |

**Test Graph**



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|
| 1  | 5150.0000   | 34.65           | 15.08           | -40.54          | 36.46          | 45.65          | 54.00          | 8.35        | Pass   | Vertical |
| 2  | 5204.7434   | 34.70           | 15.55           | -40.55          | 70.56          | 80.26          | 54.00          | -26.26      | Pass   | Vertical |