



# **RF Test Report**

**Applicant:** NETPRISMA INC.

Address: 1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES

**Product:** Multi-mode Smart LTE Module with Wi-Fi & Bluetooth

Model No.: SUV200-LD

Brand Name: Vrileg

FCC ID: 2BEY3SUV200LDA

**Standards:** FCC CFR47 Part 15E

**Report No.:** PD20250034-R3E

**Issue Date:** 2025/05/19

Test Result: PASS \*

Testing performed at Hefei Panwin Technology Co., Ltd. on the above equipment indicates the product meets the requirements of the relevant standards.

Reviewed By: Jerry Zhang

Approved By: Alec Yang

Stee Jung

# Hefei Panwin Technology Co., Ltd.

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Report Version: 01

# **Revision History**

| Report No.     | Version | Description    | Issue Date | Note  |
|----------------|---------|----------------|------------|-------|
| PD20250034-R3E | 1       | Initial Report | 2025/05/19 | Valid |



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## **Summary of Test Results**

| No. | Test Case                                  | FCC Rules          | Verdict |
|-----|--|--------------------|---------|
| 1   | Occupied Bandwidth Measurement             | 15.407(e)          | PASS    |
| 2   | Maximum Conducted Output Power Measurement | 15.407(a)          | PASS    |
| 3   | Power Spectral Density Measurement         | 15.407(a)          | PASS    |
| 4   | Unwanted Emissions Measurement             | 15.407(b)          | PASS    |
| 5   | AC Conducted Emission Measurement          | 15.207             | NA      |
| 6   | Antenna Requirements                       | 15.203 & 15.407(a) | PASS    |
| 7   | Frequency Stability <sup>Note1</sup>       | 15.407(g)          | NA      |

Date of Testing: 2025/03/06 to 2025/04/21 Date of Sample Received: 2025/03/06

- We, Hefei Panwin Technology Co., Ltd., would like to declare that the tested sample has been evaluated in accordance with the procedures given in applied standard(s) in **Section 2.3** of this report and shown compliance with the applicable technical standards.
- All indications of PASS/FAIL in this report are based on interpretations and/or observations of test results.

  Measurement Uncertainties were not taken into account and are published for informational purposes only.

  Note1: Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

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#### 1 General Information

#### 1.1 Notes of the Test Report

This report is invalid without signature of auditor and approver or with any alterations. The report shall not be partially reproduced without written approval of the testing company. Entrusted test results are only responsible for incoming samples. If there is any objection to the testing report, it shall be raised to the testing company within 15 days from the date of receiving the report. In the test results, "NA" means "not applicable", and the test items marked with " $\Delta$ " are subcontracted projects.

## 1.2 Test Facility

#### A2LA (Certificate Number: 6849.01)

Hefei Panwin Technology Co., Ltd. has been accredited by American Association for Laboratory Accreditation to perform measurement.

#### FCC (Designation Number: CN1361, Test Firm Registration Number: 473156)

Hefei Panwin Technology Co., Ltd. has been accredited on the US Federal Communications Commission list of test facilities recognized to perform measurements.

## 1.3 Testing Laboratory

| Company Name | Hefei Panwin Technology Co., Ltd.  |  |  |
|--------------|--|--|--|
| Address      | Floor 1, Zone E, Plant 2#, Mingzhu Industrial Park, No.106 Chuangxin<br>Avenue, High-tech Zone, Hefei City, Anhui Province,China |  |  |
| Telephone    | +86-0551-63811775  |  |  |
| Post Code    | 230031   |  |  |



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# 2 General Description of Equipment under Test

## 2.1 Details of Application

| Applicant            | NETPRISMA INC.                                       |
|----------------------|--|
| Applicant Address    | 1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES |
| Manufacturer         | NETPRISMA INC.                                       |
| Manufacturer Address | 1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES |

## 2.2 General Information

| Product   | Multi-mode Smart LTE Module with Wi-Fi & Bluetooth   |
|---|--|
| Model   | SUV200-LD  |
| SN  | Conducted: E1C24LU1B000045  Radiated: E1C24KG0N000039 & E1C24LU1B000054  |
| Hardware Version  | R1.0   |
| Software Version  | SUV200LDNA0101   |
| Antenna Type  | External Antenna   |
| Max. Conducted Power  | Wi-Fi 5G: 16.74dBm   |
| WLAN Mode Supported:  | 802.11a<br>802.11n 20M/40M<br>802.11ac 20M/40M/80M   |
| Antenna Gain  | 5150MHz to 5250MHz: -0.67dBi<br>5250MHz to 5350MHz: -0.19dBi<br>5470MHz to 5725MHz: 1.28dBi<br>5725MHz to 5850MHz: 1.10dBi |
| Directional Gain  | NA   |
| U-NII-1(5150MHz-5250MHz) U-NII-2A(5250MHz-5350MHz) U-NII-2C(5470MHz-5725MHz) U-NII-3(5725MHz-5850MHz) |  |
| Operating voltage   | Typical 3.8Vdc   |
| Modulation Type   | 802.11a/n/ac: BPSK;QPSK;16QAM;64QAM;256QAM   |
| Notes. The sheet of mandoust an asitio  | ation for EUT and/or Astrono announted in the annount on announted by the  |

**Note:** The declared of product specification for EUT and/or Antenna presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



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## 2.3 Application Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart E
- FCC KDB 789033 D02 General UN II Test Procedures New Rules v02r01
- ANSI C63.10-2013

#### Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



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## **3 Test Condition**

## 3.1 Test Configuration

#### **Test mode**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). The worst cases were recorded in this report.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes (Z, X, Y axis), receiver antenna polarization (horizontal and vertical), the worst emission was found in Z position and the worst case was recorded. This report presents the data for the worst polarity.

| Test Mode    | Data Rate(Mbps) |
|--------------|-----------------|
| 802.11a      | 6               |
| 802.11n 20M  | MCS0            |
| 802.11n 40M  | MCS0            |
| 802.11ac 20M | MCS0            |
| 802.11ac 40M | MCS0            |
| 802.11ac 80M | MCS0            |



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# 3.2 Wireless Technology and Frequency Range

| Wireless Technology | Band     | lwidth   | Channel   | Frequency |  |  |
|---------------------|----------|--|---|-----------|--|--|
|                     |          |  | 36  | 5180 MHz  |  |  |
|                     |          | 2011   | 40  | 5200 MHz  |  |  |
|                     |          | ZUIVINZ  | 44  | 5220 MHz  |  |  |
|                     | U-NII-1  | 20MHz  40 5220 MHz 44 5220 MHz 48 5240 MHz 48 5240 MHz 46 5230 MHz 46 5230 MHz 52 52 5260 MHz 52 52 5260 MHz 60 5300 MHz 64 5320 MHz 62 5310 MHz 62 62 5310 MHz 63 64 5520 MHz 64 6520 MHz 650 660 5500 MHz 67 68 5860 MHz 68 560 MHz 69 560 MHz | 5240 MHz  |           |  |  |
|                     |          | 40MH <del>-</del>  | 38  | 5190 MHz  |  |  |
|                     |          | 40IVIH2  | 46  | 5230 MHz  |  |  |
|                     |          | 80MHz  | 42  | 5210 MHz  |  |  |
|                     |          |  | 52  | 5260 MHz  |  |  |
|                     |          | 20141-   | 56  | 5280 MHz  |  |  |
|                     |          | ZUIVINZ  | 60  | 5300 MHz  |  |  |
|                     | U-NII-2A |  | 46 42 52 56 60 64 54 62 58 100 104 108 112 116 120 124 128 132 136 140 144 102 110 118  | 5320 MHz  |  |  |
|                     |          | 40MH <del>-</del>  | 54  | 5270 MHz  |  |  |
|                     |          | 40IVITZ  |   | 5310 MHz  |  |  |
|                     |          | 80MHz  | 58  | 5290 MHz  |  |  |
|                     |          |  | 100   | 5500 MHz  |  |  |
|                     |          |  | 104   | 5520 MHz  |  |  |
|                     |          |  | 108   | 5540 MHz  |  |  |
| Wi-Fi               |          |  | 112   | 5560 MHz  |  |  |
| VVI-F1              |          |  | 116   | 5580 MHz  |  |  |
|                     |          | 20MU-  | 116 5580 MHz<br>120 5600 MHz  | 5600 MHz  |  |  |
|                     |          | ZUIVINZ  |   | 5620 MHz  |  |  |
|                     |          |  | 128   | 5640 MHz  |  |  |
|                     |          |  | 132 5660 MHz<br>136 5680 MHz  | 5660 MHz  |  |  |
|                     |          |  |   | 5680 MHz  |  |  |
|                     | U-NII-2C |  |   | 5700 MHz  |  |  |
|                     |          |  | 46       5230 MHz         42       5210 MHz         52       5260 MHz         56       5280 MHz         60       5300 MHz         64       5320 MHz         54       5270 MHz         62       5310 MHz         58       5290 MHz         100       5500 MHz         104       5520 MHz         108       5540 MHz         112       5560 MHz         120       5600 MHz         124       5620 MHz         128       5640 MHz         132       5660 MHz         136       5680 MHz         140       5700 MHz         144       5720 MHz         102       5510 MHz |           |  |  |
|                     |          |  | 102   | 5510 MHz  |  |  |
|                     |          |  | 110   | 5550 MHz  |  |  |
|                     |          | 400411-  | 118   | 5590 MHz  |  |  |
|                     |          | 40IVIH2  | 126   | 5630 MHz  |  |  |
|                     |          |  | 134   | 5670 MHz  |  |  |
|                     |          |  | 142   | 5710 MHz  |  |  |
|                     |          |  | 106   | 5530 MHz  |  |  |
|                     |          | 80MHz  | 122   | 5610 MHz  |  |  |
|                     |          |  | 138   | 5690 MHz  |  |  |
|                     | U-NII-3  | 20MHz  | 149   | 5745 MHz  |  |  |



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| Does this device support TPC function?  Does this device support TDWR band? |  | ☐ Yes ☑ Yes |    |          | ☑ No<br>□ No |
|---|--|-------------|----|----------|--------------|
|   |  | 80MHz       | 15 | 55       | 5775 MHz     |
|   |  | 15          | 59 | 5795 MHz |              |
|   |  | 40MHz       | 15 | 51       | 5755 MHz     |
|   |  |             | 16 | 65       | 5825 MHz     |
|   |  |             | 16 | 61       | 5805 MHz     |
|   |  |             | 15 | 57       | 5785 MHz     |
|   |  |             | 15 | 53       | 5765 MHz     |



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# 3.3 Equipment List

#### Conducted

| Instrument        | Manufacturer | Model               | Asset No. | Cal. Interval | Cal. Due Date |
|-------------------|--------------|---------------------|-----------|---------------|---------------|
| Spectrum Analyzer | KEYSIGHT     | N9020B              | PWC0048   | 1 Year        | 2025/09/11    |
| RF Control Unit   | Tonseced     | JS0806-2            | PWC0055   | 1             | /             |
| DC Power          | Keysight     | E3640A              | PWC0046   | 1 Year        | 2025/09/12    |
| Shielded Chamber  | Maorui       | MR543               | PWC0041   | 3 Years       | 2026/08/26    |
| Test Software     | Tonseced     | JS1120-3<br>V3.2.22 | 1         | 1             | /             |

#### Radiated

| Instrument                     | Manufacturer         | Model                 | Asset No. | Cal. Interval | Cal. Due Date |
|--------------------------------|----------------------|-----------------------|-----------|---------------|---------------|
| EMI Test Receiver              | R&S                  | ESR7                  | PWB0023   | 1 Year        | 2025/09/11    |
| Spectrum Analyzer              | R&S                  | FSV3044               | PWB0024   | 1 Year        | 2025/09/11    |
| Loop Antenna                   | R&S                  | HFH2-Z2E              | PWB0026   | 1 Year        | 2025/09/13    |
| TRILOG Broadband               | Schwarzbeck          | VULB9162              | PWB0029   | 1 Year        | 2025/09/09    |
| Double-Ridged Guide<br>Antenna | ETS-Lindgren         | 3117                  | PWB0031   | 1 Year        | 2025/09/26    |
| k Type Horn Antenna            | Steatite<br>Antennas | QMS-00880             | PWB0035   | 1 Year        | 2025/09/08    |
| Pre-Amplifier                  | R&S                  | SCU40F1               | PWB0036   | 1 Year        | 2025/09/11    |
| Pre-Amplifier                  | COM-MW               | DLNA8                 | PWB0094   | 1 Year        | 2025/09/11    |
| Pre-Amplifier                  | R&S                  | SCU18F                | PWB0034   | 1 Year        | 2025/09/11    |
| Pre-Amplifier                  | R&S                  | OSP220<br>(OSP-B155G) | PWB0042   | 1 Year        | 2025/09/11    |
| Anechoic Chamber               | ETS.LINDGREN         | Fact 3-2m             | PWB0003   | 3 Years       | 2026/06/05    |
| Test Software                  | Tonscend             | TS+ 5.0.0             | /         | 1             | 1             |



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## 3.4 Support Equipment List

| Equipment | Manufacturer  | Description                  | Model             | Serial Number                      |
|-----------|---|------------------------------|-------------------|------------------------------------|
| EVB       | NETPRISMA INC.                                      | 1                            | Q1-A0770          | MPY24F82X000232<br>MPY24F82X000193 |
| Adapter   | Shenzhen Keyu Power<br>Supply Technology<br>Co.,Ltd | AC to DC power supply to EVB | KA1801A-0503000DE | /                                  |

# 3.5 Test Uncertainty

| No. | Parameter                                 | Uncertainty         |
|-----|---|---------------------|
| 1   | Emission Bandwidth                        | 1.9%                |
| 2   | Occupied channel bandwidth                | 1.9%                |
| 3   | Min emission bandwidth                    | 1.9%                |
| 4   | Havented Emissions Management             | 9kHz-7GHz: 1.21dB   |
| 4   | Unwanted Emissions Measurement            | 7GHz-40GHz: 3.31dB  |
| 5   | Redicted Rand Edges and Spurious Emission | Below 1GHz: 4.88 dB |
| 5   | Radiated Band Edges and Spurious Emission | Above 1GHz: 5.06 dB |
| 6   | Temperature                               | 3 °C                |
| 7   | Humidity                                  | 1.3 %               |
| 8   | Supply voltages                           | 0.006 V             |



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## **4 Test Items Description**

#### **Ambient condition**

Shielded Chamber

| Temperature [°C] | 20.7 to 25.4   |
|------------------|----------------|
| Humidity [%RH]   | 31 to 50       |
| Pressure [kPa]   | 100.2 to 104.1 |

Anechoic Chamber

| Temperature [°C] | 21.1 to 22.9  |
|------------------|---------------|
| Humidity [%RH]   | 30 to 46      |
| Pressure [kPa]   | 99.5 to 102.3 |

#### 4.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

#### 4.1.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

The minimum 6 dB bandwidth shall be at least 500 kHz 26dB and 99% Occupied bandwidth are reporting only.

#### 4.1.2 Measuring Instruments

The measuring equipment is listed in the section 3.3 of this test report.

#### 4.1.3 Test Procedures

- 1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01Section C) Emission bandwidth.
- 2. For 6dB BW, Set RBW = 100kHz.

For 26dB BW, Set RBW = approximately 1% of the emission bandwidth.

For 99% OBW, Set RBW = 1% to 5% of the OBW.

3. For 26dB BW. Set the VBW > RBW.

For 6dB BW & 99% OBW. Set the VBW ≥ 3 × RBW

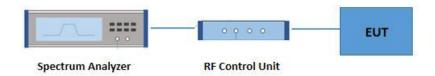
- 4. Detector = Peak.
- 5. Trace mode = max hold
- 6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer, Readjust RBW and repeat measurements needed until the RBW/EBW ratio is approximately 1%.
- 7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set1% to 5% of the OBW and set the Video bandwidth (VBW) ≥ 3\* RBW.
- 8. Measure and record the results in the test report.



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#### 4.1.4 Test Setup



#### 4.1.5 Test Results

See ANNEX A.1.



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#### 4.2 Maximum Conducted Output Power Measurement

#### 4.2.1 Limit of Maximum Conducted Output Power

#### <FCC 14 -30 CFR 15.407>

For the band 5.15-5.25 GHz.

- (i) For an outdoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (ii) For an indoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (iii) For fixed point-to-point access points operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U–NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U–NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (iv) For client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (2)For the 5.25 5.35 GHz and 5.47 5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (3)For the band 5.725–5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



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#### 4.2.2 Measuring Instruments

The measuring equipment is listed in the section 3.3 of this test report.

#### 4.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep):

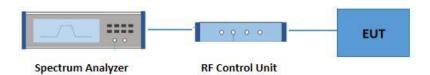
- 1. Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- 2. Set RBW = 1 MHz.
- 3. Set VBW  $\geq$  3 MHz.
- 4. Number of points in sweep ≥ 2 × span / RBW. (This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
- 5. Sweep time = auto.
- 6. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- 7. If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
- 8. Trace average at least 100 traces in power averaging (rms) mode.
- 9. Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.



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#### 4.2.4 Test Setup



## 4.2.5 Test Result of Maximum Conducted Output Power

Please refer to ANNEX A.2.



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### 4.3 Power Spectral Density Measurement

#### 4.3.1 Limit of Power Spectral Density

#### Rule FCC Part 15.407(a)(1)/ Part 15.407(a)(2)/Part 15.407(a)(3

For an indoor access point operating in the band 5.15–5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.

For client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the 5.25-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 4.3.2 Measuring Instruments

The measuring equipment is listed in the section 3.3 of this test report.

#### 4.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section F) Maximum power spectral density.

- 1.Measure the duty cycle.
- 2.Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 3.Set RBW ≥ 1/T, where T is defined in II.B.l.a).
- 4.Set VBW ≥ 3 RBW.
- 5.If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- 6.If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log (1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- 7. Care must be taken to ensure that the measurements are performed during a period of continuous

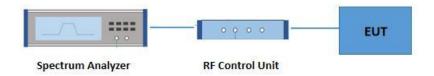


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transmission or are corrected upward for duty cycle.

## 4.3.4 Test Setup



#### 4.3.5 Test Result of Power Spectral Density

Please refer to ANNEX A.3.



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#### 4.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

#### 4.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of-27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5725 MHz band: all emissions outside of the 5470-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table.

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



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| EIRP (dBm) | Field Strength at 3m (dB µ V/m) |  |  |
|------------|---------------------------------|--|--|
| - 27       | 68.2                            |  |  |

Note: The following formula is used to convert the EIRP to field strength.

EIRP = 
$$E_{Meas}$$
 + 20log ( $d_{Meas}$ ) -104.7

where

EIRP is the equivalent isotropically radiated power, in dBm

 $E_{Meas}$  is the field strength of the emission at the measurement distance, in  $dB_{\mu}V/m$ 

d<sub>Meas</sub> is the measurement distance, in m

#### 4.4.2 Measuring Instruments

The measuring equipment is listed in the section 3.3 of this test report.

#### 4.4.3 Test Procedures

 The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section G) Unwanted emissions measurement.

(1)Procedure for Unwanted Emissions Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2)Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW= 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

(3)Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent
- VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
- 2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- 4.. The antenna is a broadband antenna and its height is adjusted between one meter and four.



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meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.

- 5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
- 7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

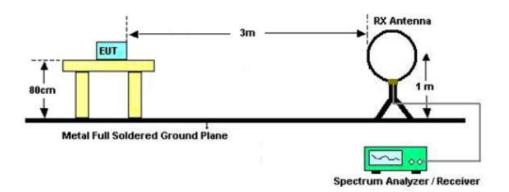


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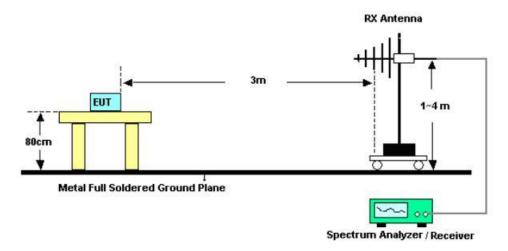
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#### 4.4.4 Test Setup

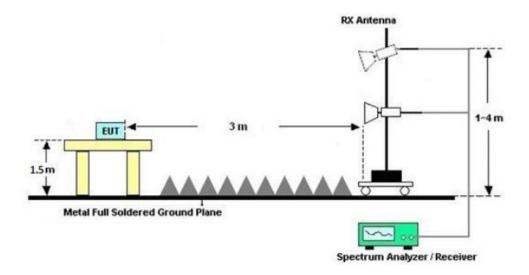
For radiated emissions below 30MHz



#### For radiated emissions from 30MHz to 1GHz



#### For radiated emissions above 1GHz





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#### 4.4.5Test Results of Radiated Spurious Emissions (9 kHz - 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

#### 4.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to ANNEX B.1.

# 4.4.7 Test Result of Radiated Spurious Emissions (30MHz - 10th Harmonic or 40GHz whichever is lower)

Please refer to ANNEX B.1

#### 4.4.8 Duty Cycle

Please refer to ANNEX A.4.



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#### 4.5 AC Conducted Emission Measurement

#### 4.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of emission (MHz)   | Conducted limit (dBμV) |           |  |  |
|-------------------------------|------------------------|-----------|--|--|
| Trequency of emission (wiriz) | Quasi-peak             | Average   |  |  |
| 0.15-0.5                      | 66 to 56*              | 56 to 46* |  |  |
| 0.5-5                         | 56                     | 46        |  |  |
| 5-30                          | 60                     | 50        |  |  |

Decreases with the logarithm of the frequency.

#### 4.5.2 Measuring Instruments

The section 3.3 of List of Measuring Equipment of this test report is used for test.

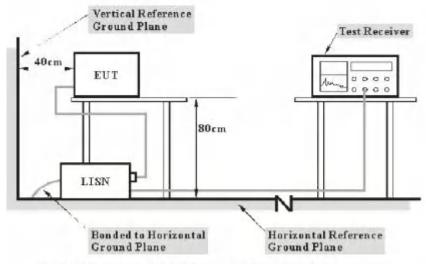
#### 4.5.3 Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth =9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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#### 4.5.4 Test Setup



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

#### 4.5.5 Uncertainty Measurement

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT. The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| CASE                          | Uncertainty |
|-------------------------------|-------------|
| Continuous Emission (AC port) | 2.92 dB     |

#### 4.5.6 Test Result

**Remark:** The product is DC powered, this test item is not applicable.

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



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### 4.6 Antenna Requirements

#### 4.6.1 Standard Applicable

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.

15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### 4.6.2 Antenna Anti-Replacement Construction

The antenna is External on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.28dBi.





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## **ANNEX A: Test Results of Conducted Test**

## A.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

## Test Result\_26dB Bandwidth

| Test Mode | Antenna | Frequency[MHz] | 26db EBW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|----------------|----------|----------|------------|---------|
| 11A       | Ant1    | 5180           | 22.600         | 5169.040 | 5191.640 |            |         |
| 11A       | Ant1    | 5220           | 21.040         | 5209.640 | 5230.680 |            |         |
| 11A       | Ant1    | 5240           | 22.400         | 5228.640 | 5251.040 |            |         |
| 11A       | Ant1    | 5260           | 22.000         | 5248.960 | 5270.960 |            |         |
| 11A       | Ant1    | 5300           | 21.600         | 5289.440 | 5311.040 |            |         |
| 11A       | Ant1    | 5320           | 21.720         | 5309.360 | 5331.080 |            |         |
| 11A       | Ant1    | 5500           | 21.680         | 5489.360 | 5511.040 |            |         |
| 11A       | Ant1    | 5580           | 21.080         | 5569.640 | 5590.720 |            |         |
| 11A       | Ant1    | 5700           | 22.400         | 5689.320 | 5711.720 |            |         |
| 11A       | Ant1    | 5720           | 21.400         | 5709.720 | 5731.120 |            |         |
| 11A       | Ant1    | 5720_UNII-2C   | 15.28          | 5709.720 | 5725     |            |         |
| 11A       | Ant1    | 5720_UNII-3    | 6.12           | 5725     | 5731.120 |            |         |
| 11A       | Ant1    | 5745           | 20.960         | 5734.720 | 5755.680 |            |         |
| 11A       | Ant1    | 5785           | 20.960         | 5774.720 | 5795.680 |            |         |
| 11A       | Ant1    | 5825           | 21.720         | 5813.920 | 5835.640 |            |         |
| 11N20SISO | Ant1    | 5180           | 22.360         | 5168.960 | 5191.320 |            |         |
| 11N20SISO | Ant1    | 5220           | 23.200         | 5208.560 | 5231.760 |            |         |
| 11N20SISO | Ant1    | 5240           | 21.920         | 5228.920 | 5250.840 |            |         |
| 11N20SISO | Ant1    | 5260           | 22.160         | 5249.040 | 5271.200 |            |         |
| 11N20SISO | Ant1    | 5300           | 22.720         | 5289.000 | 5311.720 |            |         |
| 11N20SISO | Ant1    | 5320           | 22.360         | 5308.800 | 5331.160 |            |         |
| 11N20SISO | Ant1    | 5500           | 21.560         | 5489.280 | 5510.840 |            |         |
| 11N20SISO | Ant1    | 5580           | 22.720         | 5568.840 | 5591.560 |            |         |
| 11N20SISO | Ant1    | 5700           | 21.440         | 5689.360 | 5710.800 |            |         |
| 11N20SISO | Ant1    | 5720           | 21.600         | 5709.240 | 5730.840 |            |         |
| 11N20SISO | Ant1    | 5720_UNII-2C   | 15.76          | 5709.240 | 5725     |            |         |
| 11N20SISO | Ant1    | 5720_UNII-3    | 5.84           | 5725     | 5730.840 |            |         |
| 11N20SISO | Ant1    | 5745           | 22.200         | 5733.680 | 5755.880 |            |         |
| 11N20SISO | Ant1    | 5785           | 22.840         | 5773.840 | 5796.680 |            |         |
| 11N20SISO | Ant1    | 5825           | 22.680         | 5813.760 | 5836.440 |            |         |
| 11N40SISO | Ant1    | 5190           | 40.640         | 5169.760 | 5210.400 |            |         |
| 11N40SISO | Ant1    | 5230           | 40.640         | 5209.760 | 5250.400 |            |         |
| 11N40SISO | Ant1    | 5270           | 41.040         | 5249.360 | 5290.400 |            |         |



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|            |      | T            | T      |          |          | I | I |
|------------|------|--------------|--------|----------|----------|---|---|
| 11N40SISO  | Ant1 | 5310         | 40.720 | 5289.760 | 5330.480 |   |   |
| 11N40SISO  | Ant1 | 5510         | 40.800 | 5489.760 | 5530.560 |   |   |
| 11N40SISO  | Ant1 | 5550         | 40.800 | 5529.920 | 5570.720 |   |   |
| 11N40SISO  | Ant1 | 5670         | 40.720 | 5649.920 | 5690.640 |   |   |
| 11N40SISO  | Ant1 | 5710         | 41.280 | 5689.520 | 5730.800 |   |   |
| 11N40SISO  | Ant1 | 5710_UNII-2C | 35.48  | 5689.520 | 5725     |   |   |
| 11N40SISO  | Ant1 | 5710_UNII-3  | 5.8    | 5725     | 5730.800 |   |   |
| 11N40SISO  | Ant1 | 5755         | 40.640 | 5734.920 | 5775.560 |   |   |
| 11N40SISO  | Ant1 | 5795         | 40.720 | 5774.600 | 5815.320 |   |   |
| 11AC20SISO | Ant1 | 5180         | 22.960 | 5168.720 | 5191.680 |   |   |
| 11AC20SISO | Ant1 | 5220         | 22.040 | 5208.960 | 5231.000 |   |   |
| 11AC20SISO | Ant1 | 5240         | 22.440 | 5228.680 | 5251.120 |   |   |
| 11AC20SISO | Ant1 | 5260         | 21.680 | 5249.280 | 5270.960 |   |   |
| 11AC20SISO | Ant1 | 5300         | 22.880 | 5288.760 | 5311.640 |   |   |
| 11AC20SISO | Ant1 | 5320         | 23.120 | 5308.720 | 5331.840 |   |   |
| 11AC20SISO | Ant1 | 5500         | 22.560 | 5488.720 | 5511.280 |   |   |
| 11AC20SISO | Ant1 | 5580         | 22.160 | 5568.880 | 5591.040 |   |   |
| 11AC20SISO | Ant1 | 5700         | 21.840 | 5689.000 | 5710.840 |   |   |
| 11AC20SISO | Ant1 | 5720         | 22.680 | 5708.640 | 5731.320 |   |   |
| 11AC20SISO | Ant1 | 5720_UNII-2C | 16.36  | 5708.640 | 5725     |   |   |
| 11AC20SISO | Ant1 | 5720_UNII-3  | 6.32   | 5725     | 5731.320 |   |   |
| 11AC20SISO | Ant1 | 5745         | 22.080 | 5734.080 | 5756.160 |   |   |
| 11AC20SISO | Ant1 | 5785         | 22.000 | 5773.800 | 5795.800 |   |   |
| 11AC20SISO | Ant1 | 5825         | 22.800 | 5813.720 | 5836.520 |   |   |
| 11AC40SISO | Ant1 | 5190         | 41.040 | 5169.600 | 5210.640 |   |   |
| 11AC40SISO | Ant1 | 5230         | 41.200 | 5209.520 | 5250.720 |   |   |
| 11AC40SISO | Ant1 | 5270         | 40.720 | 5249.840 | 5290.560 |   |   |
| 11AC40SISO | Ant1 | 5310         | 40.800 | 5289.760 | 5330.560 |   |   |
| 11AC40SISO | Ant1 | 5510         | 40.640 | 5489.920 | 5530.560 |   |   |
| 11AC40SISO | Ant1 | 5550         | 40.480 | 5530.000 | 5570.480 |   |   |
| 11AC40SISO | Ant1 | 5670         | 41.360 | 5649.760 | 5691.120 |   |   |
| 11AC40SISO | Ant1 | 5710         | 40.880 | 5689.840 | 5730.720 |   |   |
| 11AC40SISO | Ant1 | 5710_UNII-2C | 35.16  | 5689.840 | 5725     |   |   |
| 11AC40SISO | Ant1 | 5710_UNII-3  | 5.72   | 5725     | 5730.720 |   |   |
| 11AC40SISO | Ant1 | 5755         | 40.560 | 5734.680 | 5775.240 |   |   |
| 11AC40SISO | Ant1 | 5795         | 40.880 | 5774.920 | 5815.800 |   |   |
| 11AC80SISO | Ant1 | 5210         | 82.240 | 5169.360 | 5251.600 |   |   |
| 11AC80SISO | Ant1 | 5290         | 82.560 | 5249.040 | 5331.600 |   |   |
| 11AC80SISO | Ant1 | 5530         | 82.240 | 5489.360 | 5571.600 |   |   |
|            |      |              |        |          |          |   |   |



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| <br> | 5651.120 | 5569.040 | 82.080 | 5610         | Ant1 | 11AC80SISO |
|------|----------|----------|--------|--------------|------|------------|
| <br> | 5730.960 | 5648.880 | 82.080 | 5690         | Ant1 | 11AC80SISO |
| <br> | 5725     | 5648.880 | 76.12  | 5690_UNII-2C | Ant1 | 11AC80SISO |
| <br> | 5730.960 | 5725     | 5.96   | 5690_UNII-3  | Ant1 | 11AC80SISO |
| <br> | 5816.120 | 5733.560 | 82.560 | 5775         | Ant1 | 11AC80SISO |

# Test Result\_6dB Bandwidth U-NII-3

| Test Mode  | Antenna | Frequency[MHz] | 6db EBW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|---------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5745           | 14.960        | 5737.480 | 5752.440 | 0.5        | PASS    |
| 11A        | Ant1    | 5785           | 15.080        | 5777.440 | 5792.520 | 0.5        | PASS    |
| 11A        | Ant1    | 5825           | 15.720        | 5817.080 | 5832.800 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5745           | 15.080        | 5737.440 | 5752.520 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5785           | 16.800        | 5776.600 | 5793.400 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5825           | 12.600        | 5817.400 | 5830.000 | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 5755           | 35.440        | 5737.080 | 5772.520 | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 5795           | 35.120        | 5777.400 | 5812.520 | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5745           | 16.880        | 5736.560 | 5753.440 | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5785           | 16.760        | 5776.600 | 5793.360 | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5825           | 16.840        | 5816.600 | 5833.440 | 0.5        | PASS    |
| 11AC40SISO | Ant1    | 5755           | 35.120        | 5737.400 | 5772.520 | 0.5        | PASS    |
| 11AC40SISO | Ant1    | 5795           | 36.080        | 5777.080 | 5813.160 | 0.5        | PASS    |
| 11AC80SISO | Ant1    | 5775           | 75.200        | 5737.400 | 5812.600 | 0.5        | PASS    |

#### Test Result\_99% Bandwidth

|           | est Nesdit_55 // Bandwidth |                |           |           |           |            |         |
|-----------|----------------------------|----------------|-----------|-----------|-----------|------------|---------|
| Test Mode | Antenna                    | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
| 11A       | Ant1                       | 5180           | 16.586    | 5171.7080 | 5188.2940 |            |         |
| 11A       | Ant1                       | 5220           | 16.620    | 5211.7227 | 5228.3427 |            |         |
| 11A       | Ant1                       | 5240           | 16.618    | 5231.7149 | 5248.3329 |            |         |
| 11A       | Ant1                       | 5260           | 16.711    | 5251.6632 | 5268.3742 |            |         |
| 11A       | Ant1                       | 5300           | 16.650    | 5291.6916 | 5308.3416 |            |         |
| 11A       | Ant1                       | 5320           | 16.600    | 5311.7157 | 5328.3157 |            |         |
| 11A       | Ant1                       | 5500           | 16.733    | 5491.6396 | 5508.3726 |            |         |
| 11A       | Ant1                       | 5580           | 16.654    | 5571.6643 | 5588.3183 |            |         |
| 11A       | Ant1                       | 5700           | 16.625    | 5691.6515 | 5708.2765 |            |         |
| 11A       | Ant1                       | 5720           | 16.584    | 5711.7011 | 5728.2851 |            |         |
| 11A       | Ant1                       | 5720_UNII-2C   | 13.299    | 5711.7011 | 5725      |            |         |
| 11A       | Ant1                       | 5720_UNII-3    | 3.285     | 5725      | 5728.2851 |            |         |
| 11A       | Ant1                       | 5745           | 16.527    | 5736.7256 | 5753.2526 |            |         |



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| 111A         Ant1         5785         16.612         5776.6873         5783.2993   |            |      |              |        |           |           |      |
|---|------------|------|--------------|--------|-----------|-----------|------|
| 11N2OSISO   | 11A        | Ant1 | 5785         | 16.612 | 5776.6873 | 5793.2993 | <br> |
| 11N2OSISO   | 11A        | Ant1 | 5825         | 16.669 | 5816.7059 | 5833.3749 | <br> |
| 11N2OSISO   | 11N20SISO  | Ant1 | 5180         | 17.818 | 5171.0785 | 5188.8965 | <br> |
| 11N2OSISO   | 11N20SISO  | Ant1 | 5220         | 17.751 | 5211.1350 | 5228.8860 | <br> |
| 111120SISO  | 11N20SISO  | Ant1 | 5240         | 17.755 | 5231.1162 | 5248.8712 | <br> |
| 11N2OSISO         Ant1         5320         17.772         5311.1097         5328.8817             11N2OSISO         Ant1         5500         17.841         5491.0432         5508.8842             11N2OSISO         Ant1         5580         17.763         5571.016         5598.8646             11N2OSISO         Ant1         5720         17.765         5711.0926         5728.8576             11N2OSISO         Ant1         5720_UNII-2C         13.907         5711.0926         5725             11N2OSISO         Ant1         5720_UNII-3         3.858         5725         5728.8576             11N2OSISO         Ant1         5745         17.785         5736.0902         5753.8752             11N2OSISO         Ant1         5785         17.803         5776.0985         5793.9015             11N2OSISO         Ant1         5785         17.731         5816.1448         5833.8758             11N4OSISO         Ant1         5230         36.344         5211.8552         5248.189   | 11N20SISO  | Ant1 | 5260         | 17.815 | 5251.0855 | 5268.9005 | <br> |
| 11N2OSISO   | 11N20SISO  | Ant1 | 5300         | 17.754 | 5291.1160 | 5308.8700 | <br> |
| 111120SISO  | 11N20SISO  | Ant1 | 5320         | 17.772 | 5311.1097 | 5328.8817 | <br> |
| 11N2OSISO         Ant1         5700         17.800         5691.1412         5708.9412  | 11N20SISO  | Ant1 | 5500         | 17.841 | 5491.0432 | 5508.8842 | <br> |
| 11N2OSISO         Ant1         5720         17.765         5711.0926         5728.8576             11N2OSISO         Ant1         5720_UNII-2C         13.907         5711.0926         5725             11N2OSISO         Ant1         5720_UNII-3         3.858         5725         5728.8576             11N2OSISO         Ant1         5745         17.785         5736.0902         5753.8752             11N2OSISO         Ant1         5785         17.803         5776.0985         5793.9015             11N2OSISO         Ant1         5825         17.731         5816.1448         5833.8758             11N4OSISO         Ant1         5190         36.276         5171.9733         5208.2493             11N4OSISO         Ant1         5230         36.334         5211.8562         5248.1892             11N4OSISO         Ant1         5270         36.314         5251.8335         5281.475             11N4OSISO         Ant1         5510         36.340         5491.8338         5528.173   | 11N20SISO  | Ant1 | 5580         | 17.763 | 5571.1016 | 5588.8646 | <br> |
| 11N2OSISO         Ant1         5720_UNII-2C         13.907         5711.0926         5725             11N2OSISO         Ant1         5720_UNII-3         3.858         5725         5728.8576             11N2OSISO         Ant1         5745         17.785         5736.0902         5753.8752             11N2OSISO         Ant1         5785         17.803         5776.0985         5793.9015             11N2OSISO         Ant1         5825         17.731         5816.1448         5833.8758             11N4OSISO         Ant1         5190         36.276         5171.9733         5208.2493             11N4OSISO         Ant1         5230         36.334         5211.8552         5248.1892             11N4OSISO         Ant1         5310         36.265         5291.8893         5328.1473             11N4OSISO         Ant1         5510         36.340         5491.8338         5528.1738             11N4OSISO         Ant1         5670         36.323         5651.876         5681.210   | 11N20SISO  | Ant1 | 5700         | 17.800 | 5691.1412 | 5708.9412 | <br> |
| 11N2OSISO         Ant1         5720_UNII-3         3.858         5725         5728.8576             11N2OSISO         Ant1         5745         17.785         5736.0902         5753.8752             11N2OSISO         Ant1         5785         17.803         5776.0985         5793.9015             11N2OSISO         Ant1         5825         17.731         5816.1448         5833.8758             11N4OSISO         Ant1         5190         36.276         5171.9733         5208.2493             11N4OSISO         Ant1         5230         36.344         5211.8552         5248.1892             11N4OSISO         Ant1         5270         36.314         5251.8335         5288.1475             11N4OSISO         Ant1         5510         36.304         5491.8338         5528.1475             11N4OSISO         Ant1         5550         36.302         5531.8779         5568.1799            11N4OSISO         Ant1         5670         36.323         5651.8876         5688.2106        <  | 11N20SISO  | Ant1 | 5720         | 17.765 | 5711.0926 | 5728.8576 | <br> |
| 11N20SISO         Ant1         5745         17.785         5736.0902         5753.8752             11N20SISO         Ant1         5785         17.803         5776.0985         5793.9015             11N20SISO         Ant1         5825         17.731         5816.1448         5833.8758             11N40SISO         Ant1         5190         36.276         5171.9733         5208.2493             11N40SISO         Ant1         5230         36.334         5211.8552         5248.1892             11N40SISO         Ant1         5270         36.314         5251.8335         5288.1475             11N40SISO         Ant1         5310         36.265         5291.8893         5328.1543             11N40SISO         Ant1         5510         36.340         5491.8338         5528.1738             11N40SISO         Ant1         5550         36.302         5531.8779         5568.1799             11N40SISO         Ant1         5710         36.346         5691.8144         5728.1604 </td <td>11N20SISO</td> <td>Ant1</td> <td>5720_UNII-2C</td> <td>13.907</td> <td>5711.0926</td> <td>5725</td> <td><br/></td> | 11N20SISO  | Ant1 | 5720_UNII-2C | 13.907 | 5711.0926 | 5725      | <br> |
| 11N2OSISO         Ant1         5785         17.803         5776.0985         5793.9015             11N2OSISO         Ant1         5825         17.731         5816.1448         5833.8758             11N4OSISO         Ant1         5190         36.276         5171.9733         5208.2493             11N4OSISO         Ant1         5230         36.334         5211.8552         5248.1892             11N4OSISO         Ant1         5270         36.314         5251.8335         5288.1475             11N4OSISO         Ant1         5310         36.265         5291.8893         5328.1543             11N4OSISO         Ant1         5510         36.340         5491.8338         5528.1738             11N4OSISO         Ant1         5550         36.302         5531.8779         5568.1799             11N4OSISO         Ant1         5710         36.346         5691.8144         5728.1604             11N4OSISO         Ant1         5710_UNII-2         33.186         5691.8144         5725   | 11N20SISO  | Ant1 | 5720_UNII-3  | 3.858  | 5725      | 5728.8576 | <br> |
| 11N2OSISO         Ant1         5825         17.731         5816.1448         5833.8758             11N4OSISO         Ant1         5190         36.276         5171.9733         5208.2493             11N4OSISO         Ant1         5230         36.334         5211.8552         5248.1892             11N4OSISO         Ant1         5270         36.314         5251.8335         5288.1475             11N4OSISO         Ant1         5310         36.265         5291.8893         5328.1543             11N4OSISO         Ant1         5510         36.340         5491.8338         5528.1738             11N4OSISO         Ant1         5550         36.302         5531.8779         5568.1799             11N4OSISO         Ant1         5670         36.323         5651.8876         5688.2106             11N4OSISO         Ant1         5710         36.346         5691.8144         5725.1604             11N4OSISO         Ant1         5710_UNII-2C         33.186         5691.8144         572   | 11N20SISO  | Ant1 | 5745         | 17.785 | 5736.0902 | 5753.8752 | <br> |
| 11N40SISO         Ant1         5190         36.276         5171.9733         5208.2493             11N40SISO         Ant1         5230         36.334         5211.8552         5248.1892             11N40SISO         Ant1         5270         36.314         5251.8335         5288.1475             11N40SISO         Ant1         5310         36.265         5291.8893         5328.1543             11N40SISO         Ant1         5510         36.340         5491.8338         5528.1738             11N40SISO         Ant1         5550         36.302         5531.8779         5568.1799             11N40SISO         Ant1         5670         36.323         5651.8876         5688.2106             11N40SISO         Ant1         5710_UNII-2C         33.186         5691.8144         5725.1604             11N40SISO         Ant1         5710_UNII-3         3.16         5725         5728.1604             11N40SISO         Ant1         5755         36.330         5736.8139         577   | 11N20SISO  | Ant1 | 5785         | 17.803 | 5776.0985 | 5793.9015 | <br> |
| 11N40SISO         Ant1         5230         36.334         5211.8552         5248.1892             11N40SISO         Ant1         5270         36.314         5251.8335         5288.1475             11N40SISO         Ant1         5310         36.265         5291.8893         5328.1543             11N40SISO         Ant1         5510         36.340         5491.8338         5528.1738             11N40SISO         Ant1         5550         36.302         5531.8779         5568.1799             11N40SISO         Ant1         5670         36.323         5651.8876         5688.2106             11N40SISO         Ant1         5710_UNII-2C         33.186         5691.8144         5728.1604             11N40SISO         Ant1         5710_UNII-2C         33.186         5691.8144         5725             11N40SISO         Ant1         5710_UNII-3         3.16         5725         5728.1604             11N40SISO         Ant1         5755         36.330         5736.8139  | 11N20SISO  | Ant1 | 5825         | 17.731 | 5816.1448 | 5833.8758 | <br> |
| 11N40SISO         Ant1         5270         36.314         5251.8335         5288.1475             11N40SISO         Ant1         5310         36.265         5291.8893         5328.1543             11N40SISO         Ant1         5510         36.340         5491.8338         5528.1738             11N40SISO         Ant1         5550         36.302         5531.8779         5568.1799             11N40SISO         Ant1         5670         36.323         5651.8876         5688.2106             11N40SISO         Ant1         5710         36.346         5691.8144         5728.1604             11N40SISO         Ant1         5710_UNII-2C         33.186         5691.8144         5725             11N40SISO         Ant1         5710_UNII-3         3.16         5725         5728.1604             11N40SISO         Ant1         5755         36.330         5736.8139         5773.1439             11N40SISO         Ant1         5795         36.240         5776.8725         5813.112   | 11N40SISO  | Ant1 | 5190         | 36.276 | 5171.9733 | 5208.2493 | <br> |
| 11N40SISO         Ant1         5310         36.265         5291.8893         5328.1543             11N40SISO         Ant1         5510         36.340         5491.8338         5528.1738             11N40SISO         Ant1         5550         36.302         5531.8779         5568.1799             11N40SISO         Ant1         5670         36.323         5651.8876         5688.2106             11N40SISO         Ant1         5710         36.346         5691.8144         5728.1604             11N40SISO         Ant1         5710_UNII-3         3.16         5725         5728.1604             11N40SISO         Ant1         5710_UNII-3         3.16         5725         5728.1604             11N40SISO         Ant1         5755         36.330         5736.8139         5773.1439             11N40SISO         Ant1         5795         36.240         5776.8725         5813.1125             11AC20SISO         Ant1         5180         17.824         5171.1275         5188.9515<   | 11N40SISO  | Ant1 | 5230         | 36.334 | 5211.8552 | 5248.1892 | <br> |
| 11N40SISO         Ant1         5510         36.340         5491.8338         5528.1738             11N40SISO         Ant1         5550         36.302         5531.8779         5568.1799             11N40SISO         Ant1         5670         36.323         5651.8876         5688.2106             11N40SISO         Ant1         5710         36.346         5691.8144         5728.1604             11N40SISO         Ant1         5710_UNII-2C         33.186         5691.8144         5725             11N40SISO         Ant1         5710_UNII-3         3.16         5725         5728.1604             11N40SISO         Ant1         5755         36.330         5736.8139         5773.1439             11N40SISO         Ant1         5795         36.240         5776.8725         5813.1125             11AC20SISO         Ant1         5180         17.824         5171.1275         5188.9515             11AC20SISO         Ant1         5240         17.781         5211.0995         5228.8   | 11N40SISO  | Ant1 | 5270         | 36.314 | 5251.8335 | 5288.1475 | <br> |
| 11N40SISO         Ant1         5550         36.302         5531.8779         5568.1799             11N40SISO         Ant1         5670         36.323         5651.8876         5688.2106             11N40SISO         Ant1         5710         36.346         5691.8144         5728.1604             11N40SISO         Ant1         5710_UNII-2C         33.186         5691.8144         5725             11N40SISO         Ant1         5710_UNII-3         3.16         5725         5728.1604             11N40SISO         Ant1         5755         36.330         5736.8139         5773.1439             11N40SISO         Ant1         5795         36.240         5776.8725         5813.1125             11AC20SISO         Ant1         5180         17.824         5171.1275         5188.9515             11AC20SISO         Ant1         5240         17.781         5211.0995         5228.8805             11AC20SISO         Ant1         5260         17.770         5251.0946         5268.   | 11N40SISO  | Ant1 | 5310         | 36.265 | 5291.8893 | 5328.1543 | <br> |
| 11N40SISO         Ant1         5670         36.323         5651.8876         5688.2106             11N40SISO         Ant1         5710         36.346         5691.8144         5728.1604             11N40SISO         Ant1         5710_UNII-2C         33.186         5691.8144         5725             11N40SISO         Ant1         5710_UNII-3         3.16         5725         5728.1604             11N40SISO         Ant1         5755         36.330         5736.8139         5773.1439             11N40SISO         Ant1         5795         36.240         5776.8725         5813.1125             11AC20SISO         Ant1         5180         17.824         5171.1275         5188.9515             11AC20SISO         Ant1         5220         17.781         5211.0995         5228.8805             11AC20SISO         Ant1         5260         17.770         5251.0946         5268.8646             11AC20SISO         Ant1         5300         17.789         5291.0950         5308   | 11N40SISO  | Ant1 | 5510         | 36.340 | 5491.8338 | 5528.1738 | <br> |
| 11N40SISO         Ant1         5710         36.346         5691.8144         5728.1604             11N40SISO         Ant1         5710_UNII-2C         33.186         5691.8144         5725             11N40SISO         Ant1         5710_UNII-3         3.16         5725         5728.1604             11N40SISO         Ant1         5755         36.330         5736.8139         5773.1439             11N40SISO         Ant1         5795         36.240         5776.8725         5813.1125             11AC20SISO         Ant1         5180         17.824         5171.1275         5188.9515             11AC20SISO         Ant1         5220         17.781         5211.0995         5228.8805             11AC20SISO         Ant1         5240         17.801         5231.0808         5248.8818             11AC20SISO         Ant1         5300         17.770         5251.0946         5268.8646             11AC20SISO         Ant1         5320         17.821         5311.0872         532   | 11N40SISO  | Ant1 | 5550         | 36.302 | 5531.8779 | 5568.1799 | <br> |
| 11N40SISO         Ant1         5710_UNII-2C         33.186         5691.8144         5725             11N40SISO         Ant1         5710_UNII-3         3.16         5725         5728.1604             11N40SISO         Ant1         5755         36.330         5736.8139         5773.1439             11N40SISO         Ant1         5795         36.240         5776.8725         5813.1125             11AC20SISO         Ant1         5180         17.824         5171.1275         5188.9515             11AC20SISO         Ant1         5220         17.781         5211.0995         5228.8805             11AC20SISO         Ant1         5240         17.801         5231.0808         5248.8818             11AC20SISO         Ant1         5260         17.770         5251.0946         5268.8646             11AC20SISO         Ant1         5320         17.821         5311.0872         5328.9082             11AC20SISO         Ant1         5500         17.762         5491.1030         55   | 11N40SISO  | Ant1 | 5670         | 36.323 | 5651.8876 | 5688.2106 | <br> |
| 11N40SISO         Ant1         5710_UNII-3         3.16         5725         5728.1604             11N40SISO         Ant1         5755         36.330         5736.8139         5773.1439             11N40SISO         Ant1         5795         36.240         5776.8725         5813.1125             11AC20SISO         Ant1         5180         17.824         5171.1275         5188.9515             11AC20SISO         Ant1         5220         17.781         5211.0995         5228.8805             11AC20SISO         Ant1         5240         17.801         5231.0808         5248.8818             11AC20SISO         Ant1         5260         17.770         5251.0946         5268.8646             11AC20SISO         Ant1         5300         17.789         5291.0950         5308.8840             11AC20SISO         Ant1         5320         17.821         5311.0872         5328.9082             11AC20SISO         Ant1         5500         17.762         5491.1030         5508   | 11N40SISO  | Ant1 | 5710         | 36.346 | 5691.8144 | 5728.1604 | <br> |
| 11N40SISO         Ant1         5755         36.330         5736.8139         5773.1439             11N40SISO         Ant1         5795         36.240         5776.8725         5813.1125             11AC20SISO         Ant1         5180         17.824         5171.1275         5188.9515             11AC20SISO         Ant1         5220         17.781         5211.0995         5228.8805             11AC20SISO         Ant1         5240         17.801         5231.0808         5248.8818             11AC20SISO         Ant1         5260         17.770         5251.0946         5268.8646             11AC20SISO         Ant1         5300         17.789         5291.0950         5308.8840             11AC20SISO         Ant1         5320         17.821         5311.0872         5328.9082             11AC20SISO         Ant1         5500         17.762         5491.1030         5508.8650             11AC20SISO         Ant1         5580         17.807         5571.1017         558   | 11N40SISO  | Ant1 | 5710_UNII-2C | 33.186 | 5691.8144 | 5725      | <br> |
| 11N40SISO         Ant1         5795         36.240         5776.8725         5813.1125             11AC20SISO         Ant1         5180         17.824         5171.1275         5188.9515             11AC20SISO         Ant1         5220         17.781         5211.0995         5228.8805             11AC20SISO         Ant1         5240         17.801         5231.0808         5248.8818             11AC20SISO         Ant1         5260         17.770         5251.0946         5268.8646             11AC20SISO         Ant1         5300         17.789         5291.0950         5308.8840             11AC20SISO         Ant1         5320         17.821         5311.0872         5328.9082             11AC20SISO         Ant1         5500         17.762         5491.1030         5508.8650             11AC20SISO         Ant1         5580         17.807         5571.1017         5588.9087             11AC20SISO         Ant1         5700         17.822         5691.0817         57   | 11N40SISO  | Ant1 | 5710_UNII-3  | 3.16   | 5725      | 5728.1604 | <br> |
| 11AC20SISO         Ant1         5180         17.824         5171.1275         5188.9515             11AC20SISO         Ant1         5220         17.781         5211.0995         5228.8805             11AC20SISO         Ant1         5240         17.801         5231.0808         5248.8818             11AC20SISO         Ant1         5260         17.770         5251.0946         5268.8646             11AC20SISO         Ant1         5300         17.789         5291.0950         5308.8840             11AC20SISO         Ant1         5320         17.821         5311.0872         5328.9082             11AC20SISO         Ant1         5500         17.762         5491.1030         5508.8650             11AC20SISO         Ant1         5580         17.807         5571.1017         5588.9087             11AC20SISO         Ant1         5700         17.822         5691.0817         5708.9037   | 11N40SISO  | Ant1 | 5755         | 36.330 | 5736.8139 | 5773.1439 | <br> |
| 11AC20SISO         Ant1         5220         17.781         5211.0995         5228.8805             11AC20SISO         Ant1         5240         17.801         5231.0808         5248.8818             11AC20SISO         Ant1         5260         17.770         5251.0946         5268.8646             11AC20SISO         Ant1         5300         17.789         5291.0950         5308.8840             11AC20SISO         Ant1         5320         17.821         5311.0872         5328.9082             11AC20SISO         Ant1         5500         17.762         5491.1030         5508.8650             11AC20SISO         Ant1         5580         17.807         5571.1017         5588.9087             11AC20SISO         Ant1         5700         17.822         5691.0817         5708.9037   | 11N40SISO  | Ant1 | 5795         | 36.240 | 5776.8725 | 5813.1125 | <br> |
| 11AC20SISO         Ant1         5240         17.801         5231.0808         5248.8818             11AC20SISO         Ant1         5260         17.770         5251.0946         5268.8646             11AC20SISO         Ant1         5300         17.789         5291.0950         5308.8840             11AC20SISO         Ant1         5320         17.821         5311.0872         5328.9082             11AC20SISO         Ant1         5500         17.762         5491.1030         5508.8650             11AC20SISO         Ant1         5580         17.807         5571.1017         5588.9087             11AC20SISO         Ant1         5700         17.822         5691.0817         5708.9037   | 11AC20SISO | Ant1 | 5180         | 17.824 | 5171.1275 | 5188.9515 | <br> |
| 11AC20SISO         Ant1         5260         17.770         5251.0946         5268.8646             11AC20SISO         Ant1         5300         17.789         5291.0950         5308.8840             11AC20SISO         Ant1         5320         17.821         5311.0872         5328.9082             11AC20SISO         Ant1         5500         17.762         5491.1030         5508.8650             11AC20SISO         Ant1         5580         17.807         5571.1017         5588.9087             11AC20SISO         Ant1         5700         17.822         5691.0817         5708.9037   | 11AC20SISO | Ant1 | 5220         | 17.781 | 5211.0995 | 5228.8805 | <br> |
| 11AC20SISO         Ant1         5300         17.789         5291.0950         5308.8840             11AC20SISO         Ant1         5320         17.821         5311.0872         5328.9082             11AC20SISO         Ant1         5500         17.762         5491.1030         5508.8650             11AC20SISO         Ant1         5580         17.807         5571.1017         5588.9087             11AC20SISO         Ant1         5700         17.822         5691.0817         5708.9037   | 11AC20SISO | Ant1 | 5240         | 17.801 | 5231.0808 | 5248.8818 | <br> |
| 11AC20SISO         Ant1         5320         17.821         5311.0872         5328.9082             11AC20SISO         Ant1         5500         17.762         5491.1030         5508.8650             11AC20SISO         Ant1         5580         17.807         5571.1017         5588.9087             11AC20SISO         Ant1         5700         17.822         5691.0817         5708.9037   | 11AC20SISO | Ant1 | 5260         | 17.770 | 5251.0946 | 5268.8646 | <br> |
| 11AC20SISO         Ant1         5500         17.762         5491.1030         5508.8650             11AC20SISO         Ant1         5580         17.807         5571.1017         5588.9087             11AC20SISO         Ant1         5700         17.822         5691.0817         5708.9037   | 11AC20SISO | Ant1 | 5300         | 17.789 | 5291.0950 | 5308.8840 | <br> |
| 11AC20SISO         Ant1         5580         17.807         5571.1017         5588.9087             11AC20SISO         Ant1         5700         17.822         5691.0817         5708.9037   | 11AC20SISO | Ant1 | 5320         | 17.821 | 5311.0872 | 5328.9082 | <br> |
| 11AC20SISO Ant1 5700 17.822 5691.0817 5708.9037   | 11AC20SISO | Ant1 | 5500         | 17.762 | 5491.1030 | 5508.8650 | <br> |
|   | 11AC20SISO | Ant1 | 5580         | 17.807 | 5571.1017 | 5588.9087 | <br> |
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|   | 11AC20SISO | Ant1 | 5720         | 17.814 | 5711.1196 | 5728.9336 | <br> |



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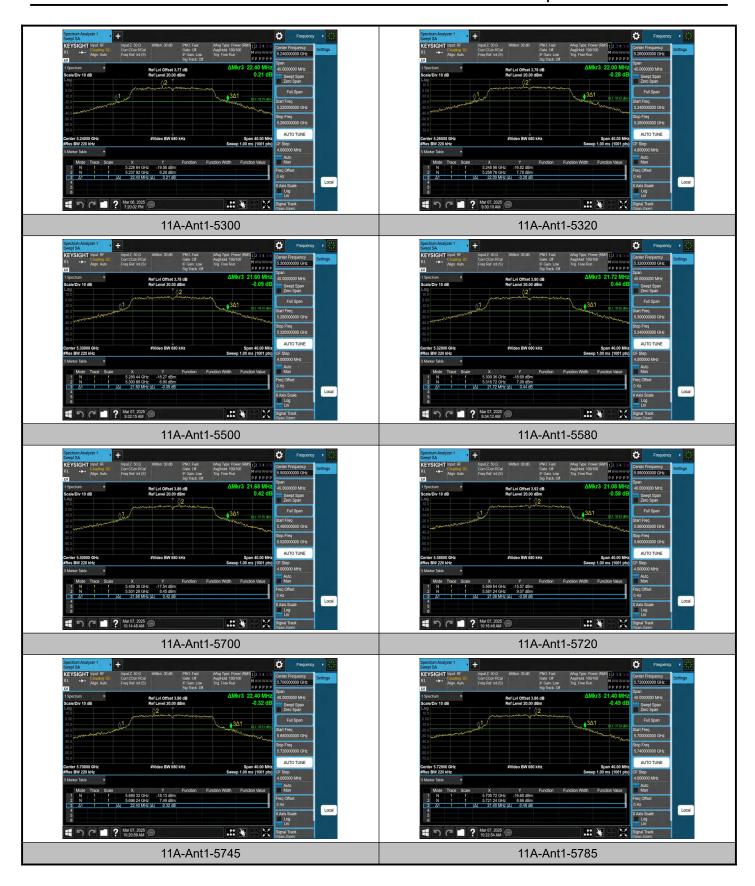
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| 11AC40SISO | Ant1 | 5310         | 36.321 | 5291.8450 | 5328.1660 | <br> |
| 11AC40SISO | Ant1 | 5510         | 36.295 | 5491.9191 | 5528.2141 | <br> |
| 11AC40SISO | Ant1 | 5550         | 36.262 | 5531.9388 | 5568.2008 | <br> |
| 11AC40SISO | Ant1 | 5670         | 36.244 | 5651.9622 | 5688.2062 | <br> |
| 11AC40SISO | Ant1 | 5710         | 36.325 | 5691.8286 | 5728.1536 | <br> |
| 11AC40SISO | Ant1 | 5710_UNII-2C | 33.171 | 5691.8286 | 5725      | <br> |
| 11AC40SISO | Ant1 | 5710_UNII-3  | 3.154  | 5725      | 5728.1536 | <br> |
| 11AC40SISO | Ant1 | 5755         | 36.311 | 5736.8493 | 5773.1603 | <br> |
| 11AC40SISO | Ant1 | 5795         | 36.216 | 5776.9171 | 5813.1331 | <br> |
| 11AC80SISO | Ant1 | 5210         | 75.856 | 5172.1145 | 5247.9705 | <br> |
| 11AC80SISO | Ant1 | 5290         | 75.835 | 5252.0960 | 5327.9310 | <br> |
| 11AC80SISO | Ant1 | 5530         | 76.027 | 5492.0047 | 5568.0317 | <br> |
| 11AC80SISO | Ant1 | 5610         | 75.708 | 5572.1605 | 5647.8685 | <br> |
| 11AC80SISO | Ant1 | 5690         | 75.832 | 5652.0511 | 5727.8831 | <br> |
| 11AC80SISO | Ant1 | 5690_UNII-2C | 72.949 | 5652.0511 | 5725      | <br> |
| 11AC80SISO | Ant1 | 5690_UNII-3  | 2.883  | 5725      | 5727.8831 | <br> |
| 11AC80SISO | Ant1 | 5775         | 76.116 | 5736.8803 | 5812.9963 | <br> |

## Test Graphs 26dB Occupied Bandwidth



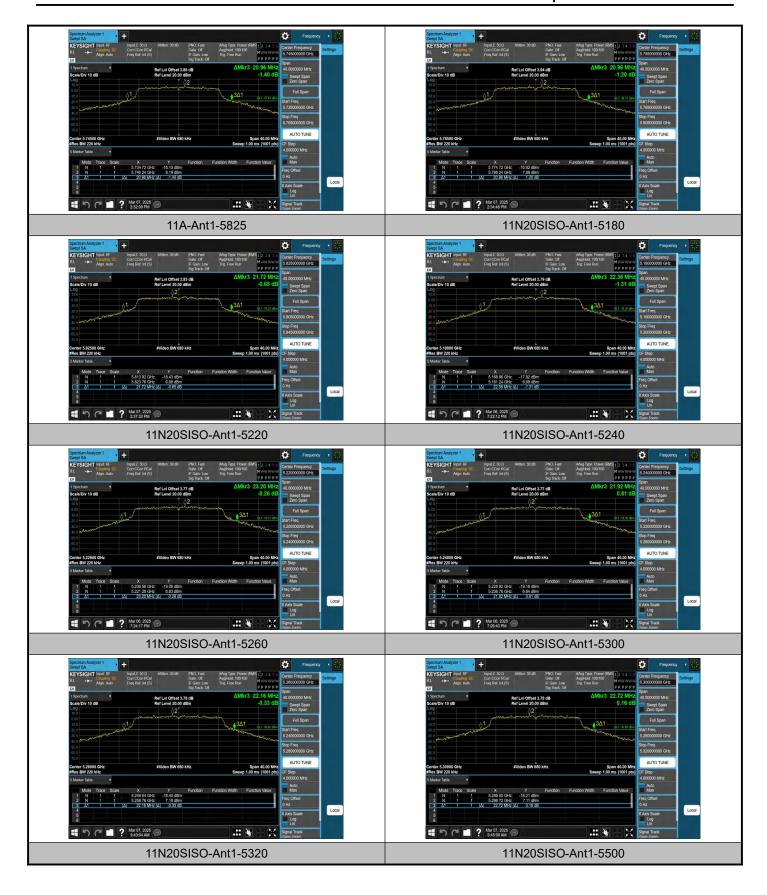


Report No.: PD20250034-R3E



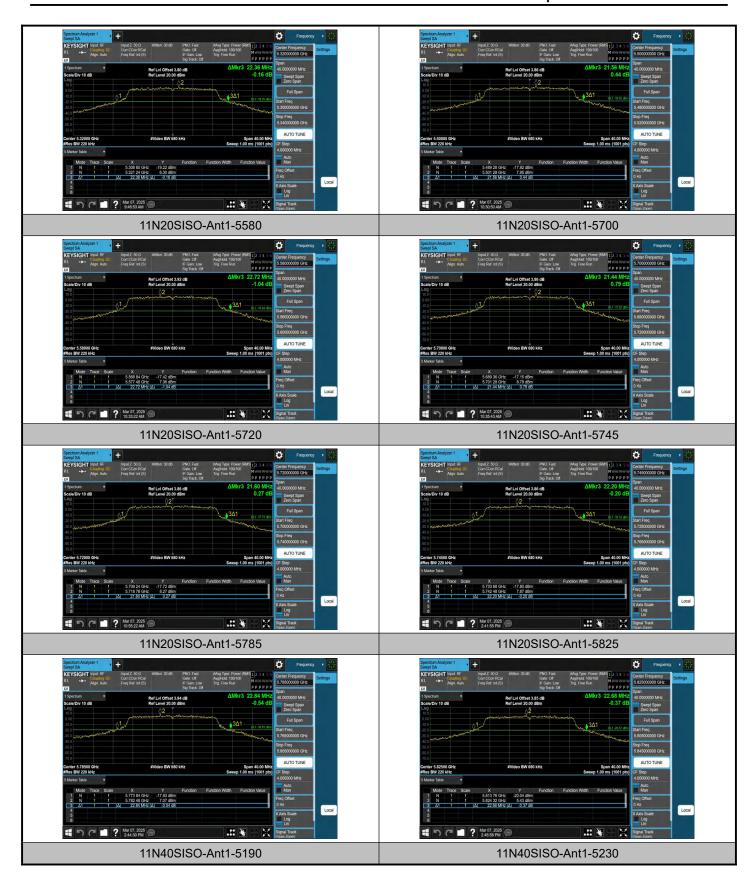


Report No.: PD20250034-R3E





Report No.: PD20250034-R3E



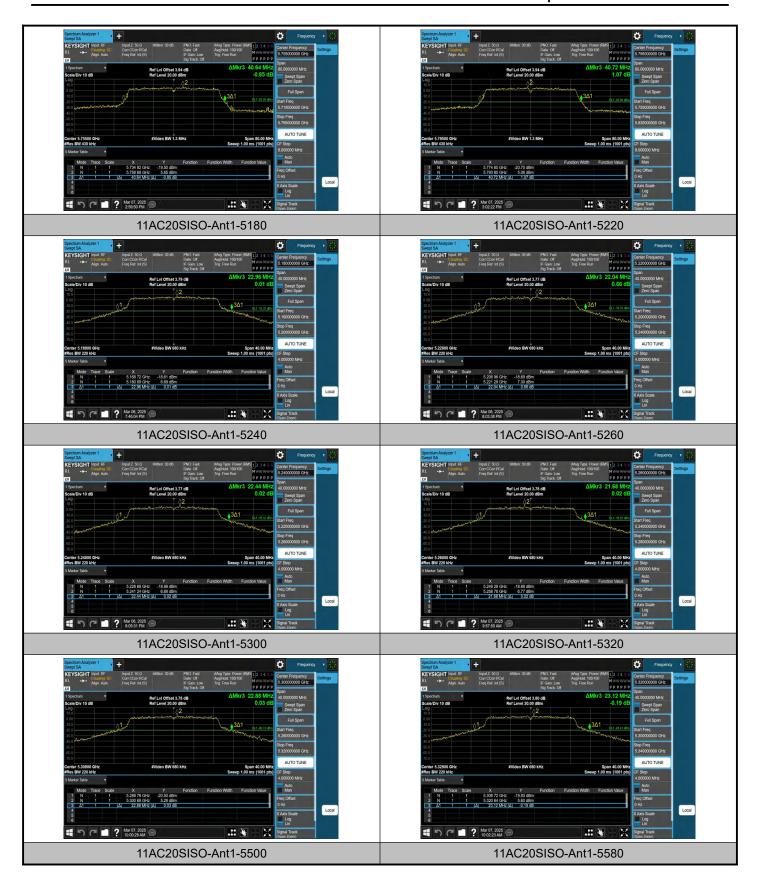


Report No.: PD20250034-R3E



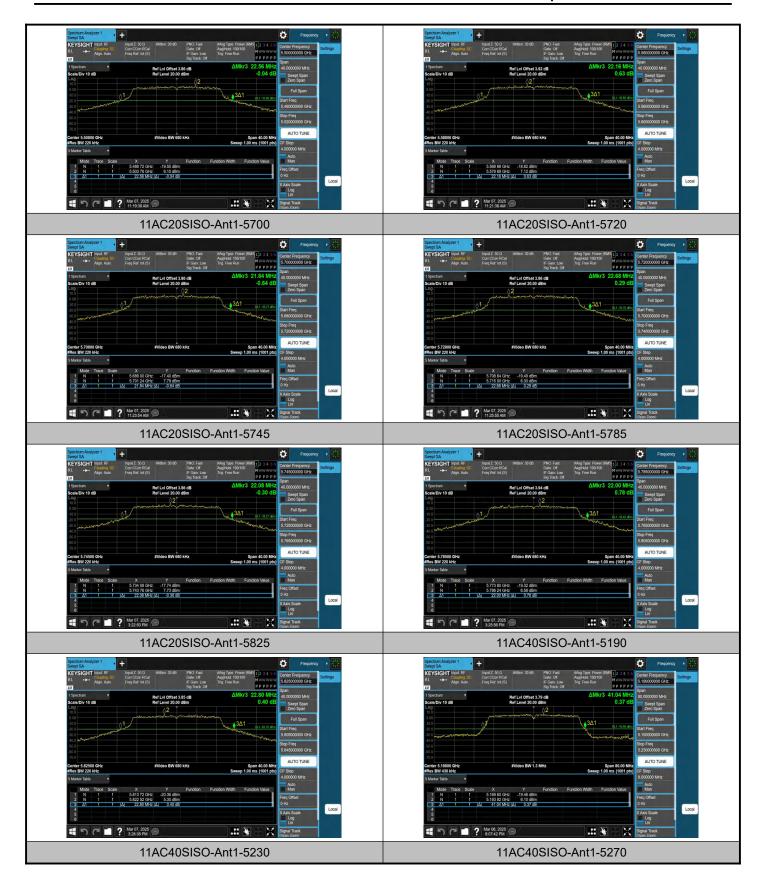


Report No.: PD20250034-R3E





Report No.: PD20250034-R3E





Report No.: PD20250034-R3E





Report No.: PD20250034-R3E

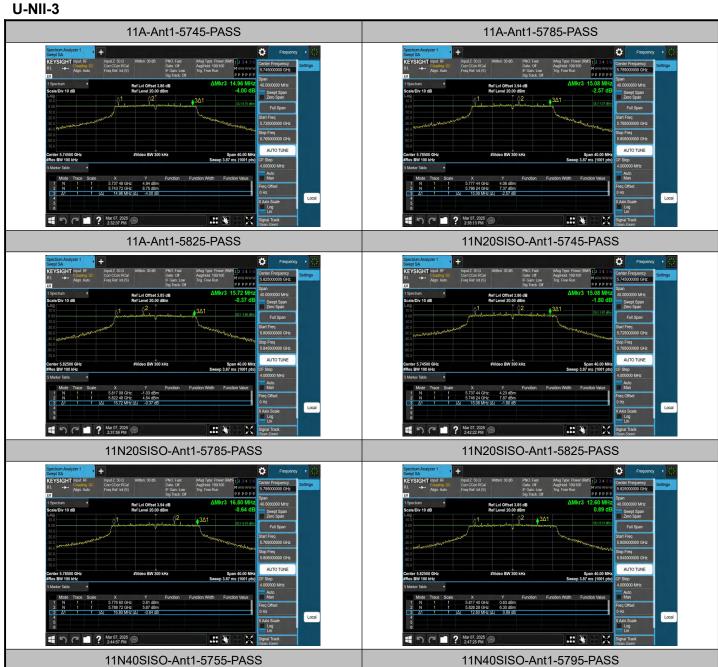




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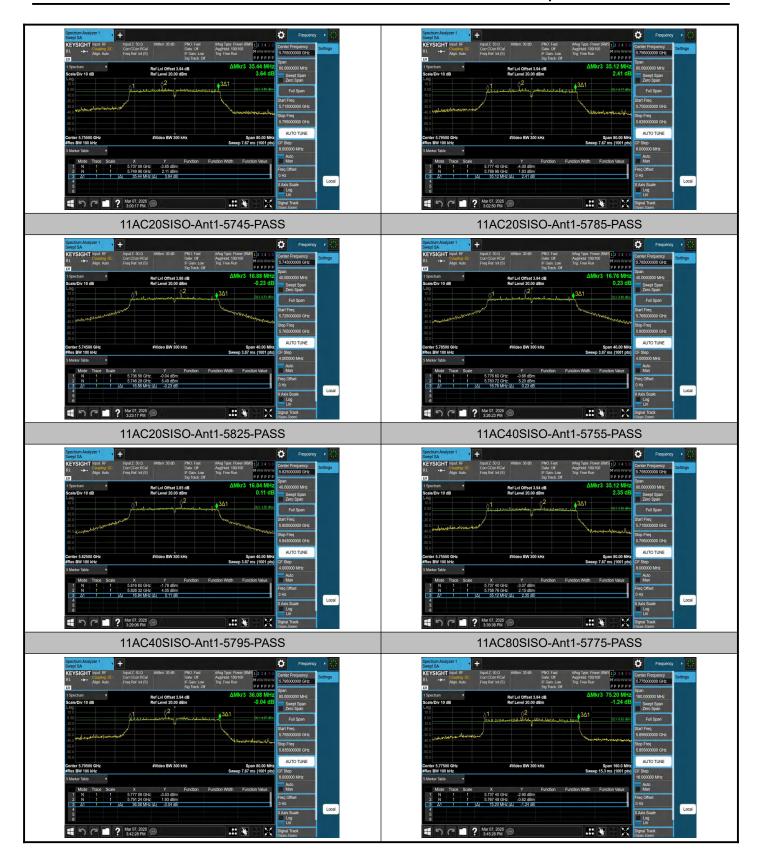
Report Version: 01

## 6dB Bandwidth





Report No.: PD20250034-R3E

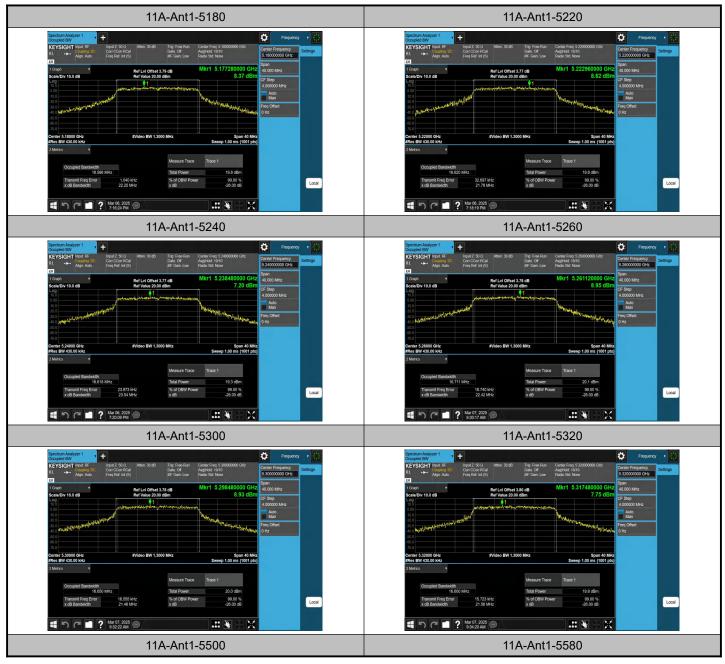




Report No.: PD20250034-R3E

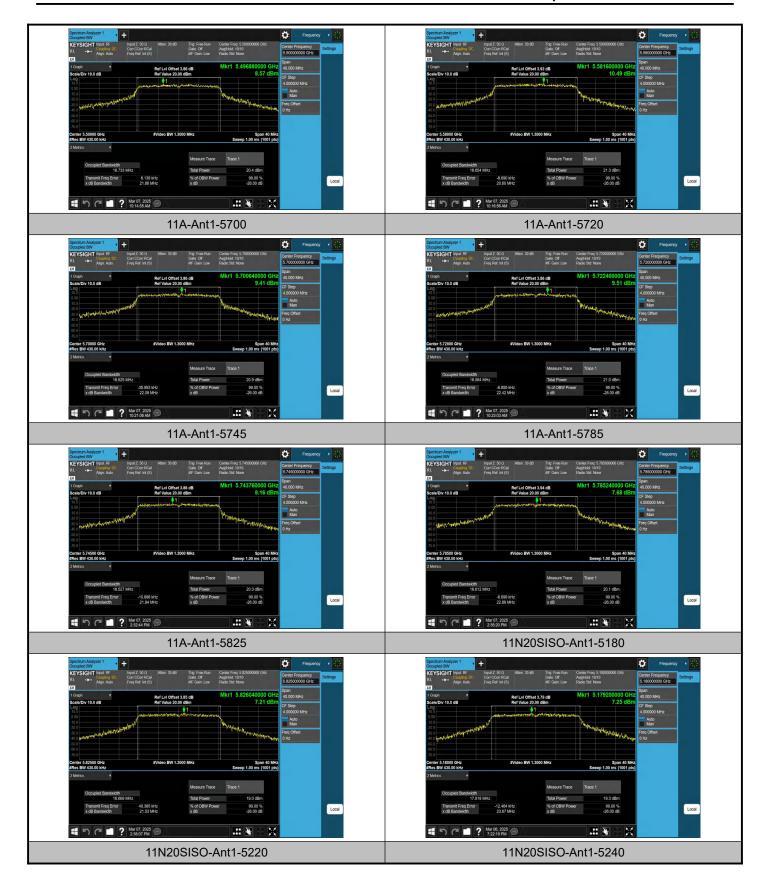
Report Version: 01

#### 99% Bandwidth





Report No.: PD20250034-R3E





Report No.: PD20250034-R3E

