


Report No.: SEWM2306000198RG02
 Rev.: 01
 Page: 1 of 127

TEST REPORT

Application No.: SEWM2306000198RG
Applicant: Beijing InHand Networks Technology Co., Ltd.
Address of Applicant: Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing
Manufacturer: Beijing InHand Networks Technology Co., Ltd.
Address of Manufacturer: Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing
EUT Description: Edge Computer
Test Model No.: EC900-NRQ3
Series Model No.: EC9x2-NRQ3, EC9x4-NRQ3
Trade Mark: 
FCC ID: 2AANY-EC9005G
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart E
Date of Receipt: 2023/06/13
Date of Test: 2023/06/19 to 2023/07/05
Date of Issue: 2023/08/23

| | |
|----------------------|---------------|
| Test Result : | PASS * |
|----------------------|---------------|

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:


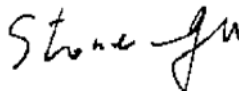
Well Wei
 Wireless Laboratory Manager



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1 Version

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2023/08/23 | | Original |

| | | |
|--------------------|--|--|
| Prepared By | |  <hr/> (Ives Cheng) / Test Engineer |
| Checked By | |  <hr/> (Stone Gu) / Reviewer |



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2 Test Summary

| Test Item | Band ^[1] | FCC rules No. | Test Requirements | Test Result | Result |
|--------------------------------|---------------------|----------------------------|---|-------------|--------------------|
| Antenna Requirement | -- | 15.203/15.407(a) | -- | Clause 4.1 | PASS |
| 26dB Emission Bandwidth | Band I | 15.407(a)(1) | No limit. | Clause 4.5 | For Report Purpose |
| 6dB Emission Bandwidth | Band III | 15.407(e) | ≥ 500 kHz. | Clause 4.6 | PASS |
| 99% Occupied Bandwidth | Band I | KDB 789033 D02§ D | No limit. | Clause 4.7 | For Report Purpose |
| | Band III | | | | |
| Duty Cycle | Band I Band III | -- | No limit. | Clause 4.3 | For Report Purpose |
| Maximum Conducted Output Power | Band I | 15.407(a)(ii) | <1W | Clause 4.4 | PASS |
| | Band III | 15.407(a)(3) | < 1W | | |
| Maximum Power Spectral Density | Band I | 15.407(a)(ii) | < 17dBm/MHz | Clause 4.8 | PASS |
| | Band III | 15.407(a)(3) | <30dBm/500KHz | | |
| Radiated Spurious Emissions | Band I | 15.407(b) 15.205/15.209 | F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK). | Clause 4.9 | PASS |
| | Band III | 15.407(b) 15.205/15.209 | F<1GHz: §15.209 limit (QP) F≥1GHz & out-restricted:(PK) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK). | | PASS |



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| | | | | | |
|--|--------------------|----------------------------|--|-------------|------|
| Restricted bands around fundamental frequency | Band I Band III | 15.407(b) 15.205/15.209 | --- | Clause 4.10 | PASS |
| AC Power Line Conducted Emissions | Band I Band III | 15.207 | --- | Clause 4.2 | PASS |
| Frequency Stability | Band I Band III | 15.407(g) | 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 | N/A | N/A |
| <p>Note 1: Band I: 5150-5250MHz Band III: 5725-5850MHz</p> | | | | | |



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3 General Information

3.1 Details of Client

| | |
|--------------------------|--|
| Applicant: | Beijing InHand Networks Technology Co., Ltd. |
| Address of Applicant: | Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing |
| Manufacturer: | Beijing InHand Networks Technology Co., Ltd. |
| Address of Manufacturer: | Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing |

3.2 Test Location

| | |
|----------------|--|
| Company: | SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. |
| Address: | South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone |
| Post code: | 215000 |
| Test engineer: | Ives Cheng, King-p Li |

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

| | | |
|----------------------|---|--|
| EUT Description: | Edge Computer | |
| Test Model No.: | EC900-NRQ3 | |
| Series Model No.: | EC9x2-NRQ3, EC9x4-NRQ3 | |
| Trade Mark: | | |
| Hardware Version: | NA | |
| Software Version: | NA | |
| Power Supply: | DC 12V | |
| SN: | RF Conducted | CF9422310000161 |
| | RSE & AC power line | CF9422310000176 |
| WLAN Mode Supported: | 802.11a: | 20 MHz channel bandwidth |
| | 802.11n: | 20 MHz / 40 MHz channel bandwidth |
| | 802.11ac: | 20 MHz / 40 MHz / 80 MHz channel bandwidth |
| Operation Frequency: | 5150MHz to 5250MHz 5725MHz to 5850MHz | |
| Modulation Type: | 802.11a: | OFDM (BPSK, QPSK, 16QAM, 64QAM) |
| | 802.11n: | OFDM (BPSK, QPSK, 16QAM, 64QAM) |
| | 802.11ac: | OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) |
| Channel Spacing: | 20MHz: | 802.11a/n(HT20)/ac(VHT20) |
| | 40MHz: | 802.11n(HT40)/ac(VHT40) |
| | 80MHz: | 802.11ac(VHT80) |
| Antenna Type: | External Antenna | |
| Antenna Gain: | 5150MHz to 5250MHz: -0.01dBi(Ant0); -0.01dBi(Ant1); 5725MHz to 5850MHz: -0.14dBi(Ant0); -0.14dBi(Ant1); | |
| | Note: The antenna gain are derived from the gain information report provided by the manufacturer. | |
| Smart System: | <input type="checkbox"/> SISO | 802.11a/n/ac |
| | <input checked="" type="checkbox"/> MIMO | 802.11n/ac: 2Tx & 2Rx |
| | <input checked="" type="checkbox"/> Diversity | 802.11a: 2Tx & 2Rx |
| Use Conditions: | Indoor | |
| RF Cable: | 2.0dB | |
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Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

| Frequency range over which device operates | Number of Measurement Frequencies Required | Location of Measurement Frequency in Band of Operation |
|--|--|--|
| 1 MHz or less | 1 | centre |
| 1 MHz to 10 MHz | 2 | 1 near high end, 1 near low end |
| Greater than 10 MHz | 3 | 1 near high end, 1 near centre |

For UNII Band I:

| Mode | Channel | Frequency(MHz) |
|-------------------------|---------------------|----------------|
| IEEE 802.11a/n/ac 20MHz | The Lowest channel | 5180 |
| | The Middle channel | 5200 |
| | The Highest channel | 5240 |
| IEEE 802.11n/ac 40MHz | The Lowest channel | 5190 |
| | The Highest channel | 5230 |
| IEEE 802.11ac 80MHz | The Middle channel | 5210 |

For UNII Band III:

| Mode | Channel | Frequency(MHz) |
|-------------------------|---------------------|----------------|
| IEEE 802.11a/n/ac 20MHz | The Lowest channel | 5745 |
| | The Middle channel | 5785 |
| | The Highest channel | 5825 |
| IEEE 802.11n/ac 40MHz | The Lowest channel | 5755 |
| | The Highest channel | 5795 |
| IEEE 802.11ac 80MHz | The Middle channel | 5775 |



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3.5 Test Environment and Mode

| | | |
|---|---------------------------------------|---------------------|
| Environment Parameter | 101.0kPa Selected Values During Tests | |
| Relative Humidity | 44-46 % RH Ambient | |
| Value | Temperature(°C) | Voltage(Vdc) |
| NTNV | 22~23 | 12 |
| Remark: NV: Normal Voltage NT: Normal Temperature | | |

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

| Modulation Type | SISO - Data Rate | CDD/MIMO - Data Rate |
|-------------------|------------------|----------------------|
| 802.11a | / | 12 Mbps |
| 802.11n (HT 20) | / | MCS0 (13 Mbps) |
| 802.11n (HT 40) | / | MCS0 (27 Mbps) |
| 802.11ac (VHT 20) | / | MCS0 (13 Mbps) |
| 802.11ac (VHT 40) | / | MCS0 (27 Mbps) |
| 802.11ac (VHT 80) | / | MCS0 (58.5 Mbps) |



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4 Test results and Measurement Data

4.1 Antenna Requirement

| | |
|--|-------------------------------|
| Standard requirement: | 47 CFR Part 15 Section 15.203 |
| <p>The antenna is External Antenna and no consideration of replacement. The best case gain of the antenna is 5150MHz to 5250MHz: -0.01dBi(Ant0); -0.01dBi(Ant1);* 5725MHz to 5850MHz: -0.14dBi(Ant0); -0.14dBi(Ant1);*</p> <p><i>*Note:</i> The antenna gain are derived from the gain information report provided by the manufacturer.</p> <p><i>Remark:</i> As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p> | |



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Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,
 $Array\ Gain = 10 \log(N_{ANT}/N_{SS}=1) \text{ dB}$.
- For power measurements on IEEE 802.11 devices:
 $Array\ Gain = 0 \text{ dB}$ (i.e., no array gain) for $N_{ANT} \leq 4$;

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

All antennas have the same gain:

| Operation Frequency | ANT Gain0 (dBi) | ANT Gain1 (dBi) | Directional gain For Power (dBi) | Directional gain For PSD (dBi) | Power Limit Reduction (dBm) | PSD Limit Reduction (dBm) |
|---------------------|-----------------|-----------------|----------------------------------|--------------------------------|-----------------------------|---------------------------|
| 5150MHz to 5250MHz | -0.01 | -0.01 | -0.01 | 3.00 | 0 | 0 |
| 5725MHz to 5850MHz | -0.14 | -0.14 | -0.14 | 2.87 | 0 | 0 |

5150MHz to 5250MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5725MHz to 5850MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0



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4.2 AC Power Line Conducted Emissions

| | | | |
|--|--|--------------|-----------|
| Test Requirement: | 47 CFR Part 15 Section 15.207 | | |
| Test Method: | ANSI C63.10-2020 Section 6.2 | | |
| Test Frequency Range: | 150kHz to 30MHz | | |
| Receiver Setup: | RBW = 9kHz, VBW = 30kHz | | |
| Limit: | Frequency range (MHz) | Limit (dBuV) | |
| | | 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. | | | |
| Test Procedure: | <ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 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 ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 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 C63.10-2020 on conducted measurement. | | |



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| | |
|-------------------------------|--|
| <p>Test Setup:</p> | |
| <p>Exploratory Test Mode:</p> | <p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. DC Supply + transmitting mode.</p> |
| <p>Final Test Mode:</p> | <p>Refer to section 3.7 for details. Only the worst case is recorded in the report.</p> |
| <p>Instruments Used:</p> | <p>Refer to section 6 for details.</p> |
| <p>Test Results:</p> | <p>Pass</p> |



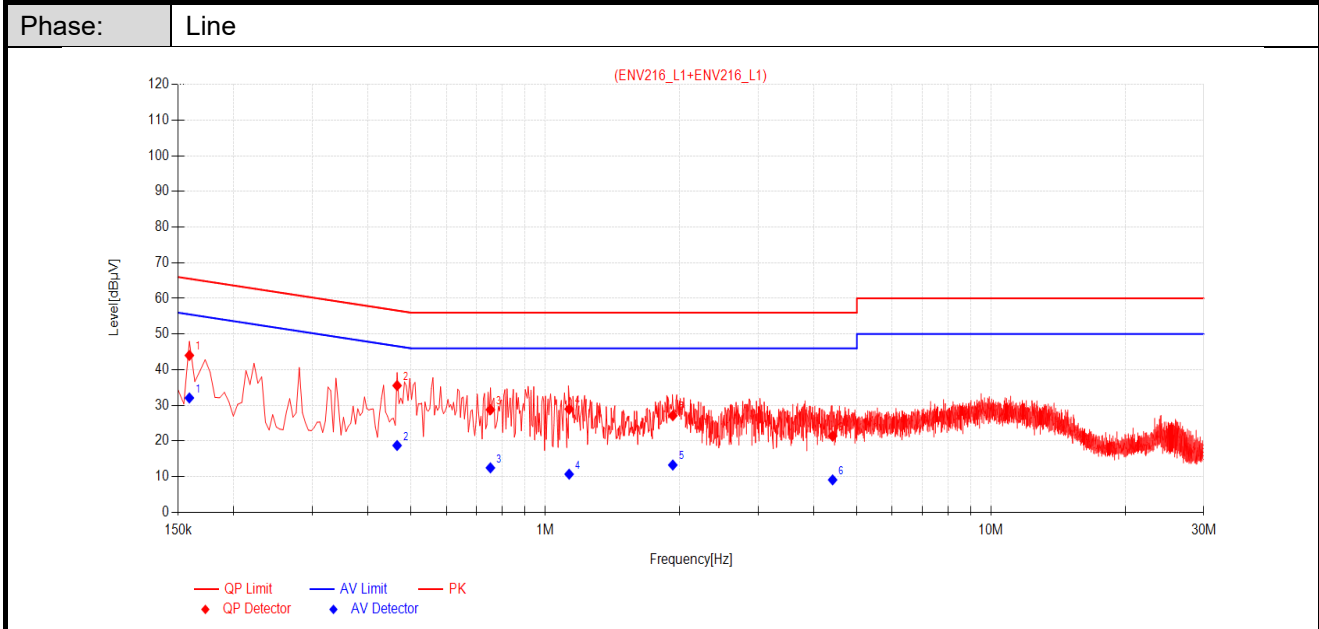
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Measurement Data

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.



| Data List | | | | | | | | | | | |
|-----------|-----------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| NO. | Frequency [MHz] | Factor [dB] | QP Reading [dBµV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Reading [dBµV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Verdict |
| 1 | 0.1590 | 10.67 | 33.34 | 44.01 | 65.52 | 21.51 | 21.41 | 32.08 | 55.52 | 23.44 | PASS |
| 2 | 0.4650 | 10.57 | 24.97 | 35.54 | 56.60 | 21.06 | 8.18 | 18.75 | 46.60 | 27.85 | PASS |
| 3 | 0.7530 | 10.54 | 18.24 | 28.78 | 56.00 | 27.22 | 1.93 | 12.47 | 46.00 | 33.53 | PASS |
| 4 | 1.1310 | 10.68 | 18.27 | 28.95 | 56.00 | 27.05 | 0.01 | 10.69 | 46.00 | 35.31 | PASS |
| 5 | 1.9320 | 10.70 | 16.41 | 27.11 | 56.00 | 28.89 | 2.57 | 13.27 | 46.00 | 32.73 | PASS |
| 6 | 4.4115 | 10.69 | 10.69 | 21.38 | 56.00 | 34.62 | -1.59 | 9.10 | 46.00 | 36.90 | PASS |

Remark:

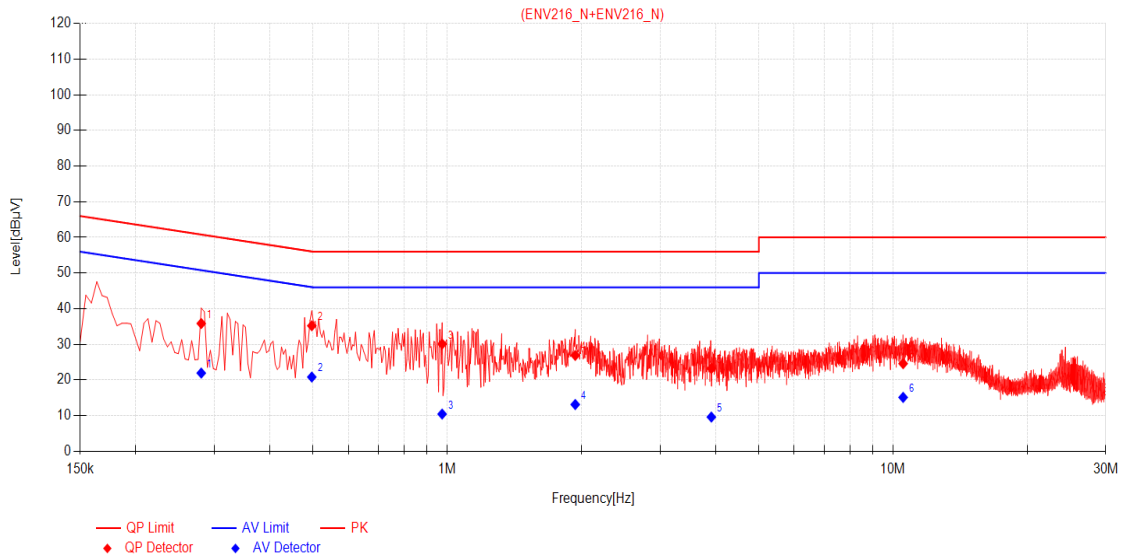
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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| | |
|--------|---------|
| Phase: | Neutral |
|--------|---------|



Data List

| NO. | Frequency [MHz] | Factor [dB] | QP Reading [dBµV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Reading [dBµV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Verdict |
|-----|-----------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| 1 | 0.2805 | 10.74 | 25.11 | 35.85 | 60.80 | 24.95 | 11.20 | 21.94 | 50.80 | 28.86 | PASS |
| 2 | 0.4965 | 10.81 | 24.40 | 35.21 | 56.06 | 20.85 | 10.02 | 20.83 | 46.06 | 25.23 | PASS |
| 3 | 0.9735 | 10.67 | 19.43 | 30.10 | 56.00 | 25.90 | -0.22 | 10.45 | 46.00 | 35.55 | PASS |
| 4 | 1.9365 | 10.78 | 16.12 | 26.90 | 56.00 | 29.10 | 2.35 | 13.13 | 46.00 | 32.87 | PASS |
| 5 | 3.9120 | 10.73 | 12.52 | 23.25 | 56.00 | 32.75 | -1.12 | 9.61 | 46.00 | 36.39 | PASS |
| 6 | 10.5360 | 10.67 | 13.93 | 24.60 | 60.00 | 35.40 | 4.46 | 15.13 | 50.00 | 34.87 | PASS |

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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4.3 Duty Cycle

| | |
|---|---|
| Test Requirement: | ANSI C63.10-2020 Section 12.2 |
| Test Method: | ANSI C63.10-2020 Section 12.2 |
| Test Setup: | |
| Instruments Used: | Refer to section 6 for details |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Refer to section 3.7 for details. |
| Limit: | No restriction limits |
| Test Results: | For report purpose |
| The detailed test data see: Appendix | |



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4.4 Conducted Output Power

| | | |
|---|---|----------------------|
| Test Requirement: | 47 CFR Part 15 Section 15.407(a) | |
| Test Method: | ANSI C63.10-2020 Section 12.4.3.2 | |
| Test Setup: | <p>* Test with power meter (Detector function: Average) Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.</p> | |
| Test Instruments: | Refer to section 6 for details. | |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates | |
| Final Test Mode: | Refer to section 3.7 for details. | |
| Limit: | Frequency Band | Limit |
| | 5150-5250MHz | Not exceed 1W(30dBm) |
| | 5725-5850MHz | Not exceed 1W(30dBm) |
| Test Results: | Pass | |
| The detailed test data see: Appendix | | |



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4.5 26dB Emission Bandwidth

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C |
| Test Method: | ANSI C63.10-2020 Section 12.5.2 |
| Test Setup: | |
| Instruments Used: | Refer to section 6 for details. |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Refer to section 3.7 for details. |
| Limit: | No restriction limits |
| Test Results: | For Report Purpose |
| The detailed test data see: Appendix | |



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4.6 6dB Emission Bandwidth

| | | |
|---|---|-----------------|
| Test Requirement: | 47 CFR Part 15 Section 15.407(e) | |
| Test Method: | ANSI C63.10-2020 Section 12.5.1 | |
| Test Setup: | | |
| Test Instruments: | Refer to section 6 for details. | |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates | |
| Final Test Mode: | Refer to section 3.7 for details. | |
| Limit: | Frequency Band | Limit |
| | 5725-5850MHz | At least 500kHz |
| Test Results: | Pass | |
| The detailed test data see: Appendix | | |



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4.7 99% Occupied Bandwidth

| | |
|---|---|
| Test Requirement: | KDB 789033 D02§ D |
| Test Method: | ANSI C63.10-2020 Section 12.5.3 |
| Test Setup: | |
| Instruments Used: | Refer to section 6 for details. |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Refer to section 3.7 for details. |
| Limit: | No restriction limits |
| Test Results: | For Report Purpose |
| The detailed test data see: Appendix | |



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4.8 Power Spectral Density

| | | |
|---|--|--|
| Test Requirement: | 47 CFR Part 15 Section 15.407(a) | |
| Test Method: | ANSI C63.10-2020 Section 12.6 KDB 789033 D02 v02r01, Section F. | |
| Test Setup: | | |
| Instruments Used: | Refer to section 6 for details. | |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates | |
| Final Test Mode: | Refer to section 3.7 for details. | |
| Limit: | Frequency Band | Limit |
| | 5150-5250MHz | The power spectral density less than 17dBm/1MHz |
| | 5725-5850MHz | The power spectral density less than <30dBm/500KHz |
| Test Results: | Pass | |
| The detailed test data see: Appendix | | |



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4.9 Radiated Spurious Emissions

| | |
|-------------------|---|
| Test Requirement: | 47 CFR Part 15 Section 15.205/15.209/15.407(b) |
| Test Method: | ANSI C63.10-2020 Section 6.4 / 6.5 / 6.6 |
| Test Site: | Measurement Distance: 3m or 10m (Semi-Anechoic Chamber) |
| Test frequency: | 9kHz ~ 40GHz(or 10 Harmonic) |

Test Setup:

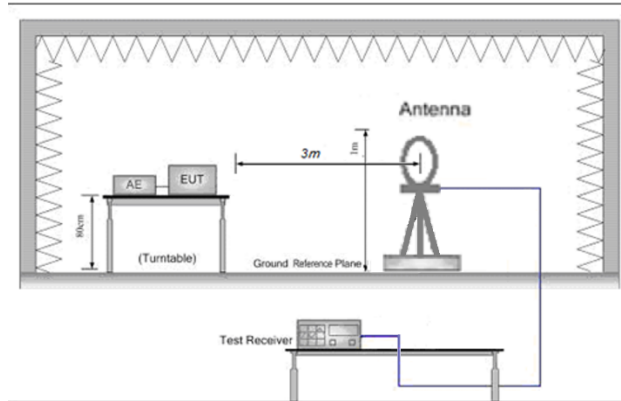


Figure 1. 9kHz to 30MHz

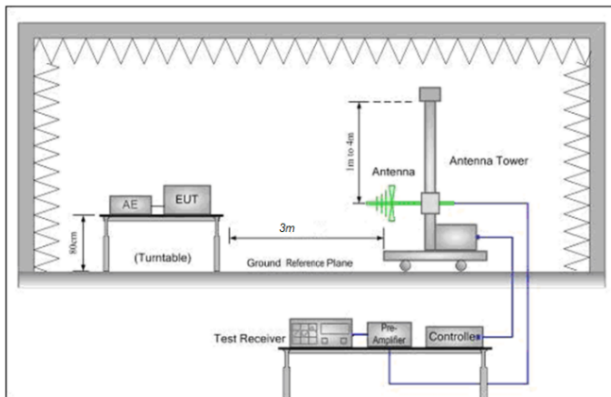


Figure 1. 30MHz to 1GHz

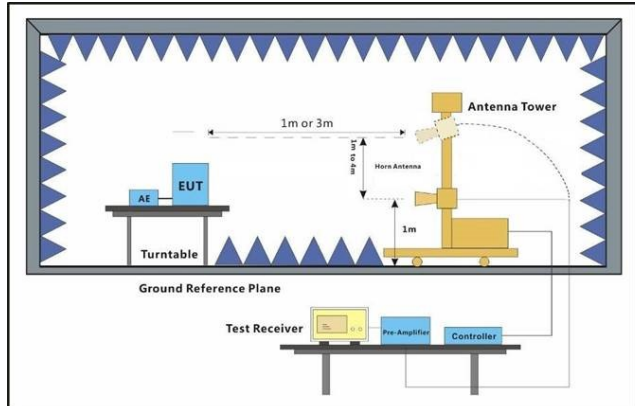


Figure 2. Above 1 GHz

Test Procedure:

- For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 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. (Distance from antenna to EUT is 1m for measurements >18GHz).
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.



| | |
|-------------------------------|--|
| | <p>e. 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 table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the outermost channels.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the Y axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. 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</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.</p> |
| <p>Test Configuration:</p> | <p>Measurements below 30MHz</p> <ul style="list-style-type: none"> • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW \geq 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. |
| <p>Exploratory Test Mode:</p> | <p>Transmitting with all kind of modulations, data rates. DC Supply + transmitting mode.</p> |
| <p>Final Test Mode:</p> | <p>Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.</p> |
| <p>Instruments Used:</p> | <p>Refer to section 6 for details.</p> |



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Report No.: SEWM2306000198RG02

Rev.: 01

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| | |
|---|------|
| Test Results: | Pass |
| The detailed test data see: Appendix | |



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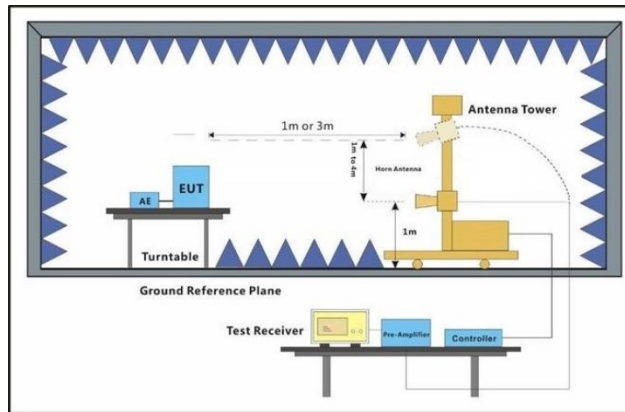
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4.10 Restricted bands around fundamental frequency

| | | | |
|-------------------|--|----------------|---------------|
| Test Requirement: | 47 CFR Part 15 Section 15.205/15.209/15.407(b) | | |
| Test Method: | ANSI C63.10-2020 Section 12.7 | | |
| Test Site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | |
| Limit: | Frequency | Limit (dBuV/m) | Remark |
| | 30MHz-88MHz | 40.0 | Quasi-peak |
| | 88MHz-216MHz | 43.5 | Quasi-peak |
| | 216MHz-960MHz | 46.0 | Quasi-peak |
| | 960MHz-1GHz | 54.0 | Quasi-peak |
| | Above 1GHz | 54.0 | Average Value |
| | | 74.0 | Peak Value |

Test Setup:



Test Procedure:

- The EUT was placed on the top of a rotating table 1.5 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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 table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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
- Test the EUT in the outermost channels.
- The radiation measurements are performed in X, Y, Z axis positioning for



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| | |
|---|--|
| | Transmitting mode, And found the Y axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. |
| Test Configuration: | <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10Hz, 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. |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates. DC Supply + transmitting mode. |
| Final Test Mode: | Refer to section 3.7 for details. |
| Instruments Used: | Refer to section 6 for details. |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



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

| No. | Item | Measurement Uncertainty |
|-----|-------------------------------|----------------------------|
| 1 | Total RF power, conducted | ±0.54dB |
| 2 | RF power density, conducted | ±1.03dB |
| 3 | Spurious emissions, conducted | ±0.54dB |
| 4 | Radio Frequency | ±1.0 % |
| 5 | Duty Cycle | ±0.37% |
| 6 | Occupied Bandwidth | ±1.0 % |
| 7 | Conduction Emission | ± 2.90dB (150kHz to 30MHz) |
| 8 | Radiated Emission | ± 3.13dB (9k to 30MHz) |
| | | ± 4.8dB (30M to 1GHz) |
| | | ± 4.8dB (1GHz to 18GHz) |
| | | ± 4.8dB (Above 18GHz) |

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

| RF Test Equipment | | | | | |
|-------------------------------------|---------------|-------------------------------|---------------|------------------------|---------------------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. date (yyyy/mm/dd) | Cal.Due date (yyyy/mm/dd) |
| Shielding Room | Brilliant-emc | N/A | SUWI-04-01-06 | 2021/05/08 | 2024/05/07 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-07 | 2023/02/06 | 2024/02/05 |
| Measurement Software | Tonscend | JS1120-3 Test System V 3.3.20 | SUWI-02-09-09 | NCR | NCR |
| Signal Analyzer | ROHDE&SCHWARZ | FSW43 | SUWI-01-02-04 | 2023/05/11 | 2024/05/10 |
| Wideband Radio Communication Tester | ROHDE&SCHWARZ | CMW500 | SUWI-01-16-05 | 2023/02/06 | 2024/02/05 |
| DC Power Supply | HYELEC | HY3005B | SUWI-01-18-01 | 2023/02/06 | 2024/02/05 |
| Power meter | Anritsu | ML2495A | SUWI-01-31-01 | 2022/11/23 | 2023/11/22 |
| Pulse power sensor | Anritsu | MA2411B | SUWI-01-32-01 | 2022/11/23 | 2023/11/22 |
| Temperature Chamber | ESPEC | SU-242 | SUWI-01-13-01 | 2023/02/06 | 2024/02/05 |

| Conduction Test Equipment | | | | | |
|--------------------------------|---------------|------------------|---------------|------------------------|---------------------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. date (yyyy/mm/dd) | Cal.Due date (yyyy/mm/dd) |
| Test receiver | ROHDE&SCHWARZ | ESR7 | SUWI-01-10-01 | 2023/02/08 | 2024/02/07 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-06 | 2023/02/07 | 2024/02/06 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | SUWI-01-19-03 | 2023/02/08 | 2024/02/07 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | SUWI-01-19-04 | 2023/02/08 | 2024/02/07 |
| Measurement Software | Tonscend | JS32-CE V4.0.0.2 | SUWI-02-09-05 | NCR | NCR |



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| RSE Test System | | | | | |
|--------------------------------|----------------------------|-----------------|---------------|-----------------------|---------------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date (yyyy/mm/dd) | Cal Due Date (yyyy/mm/dd) |
| Semi-Anechoic Chamber | Brilliant-emc | N/A | SUWI-04-02-01 | 2021/05/08 | 2024/05/07 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-05 | 2023/02/07 | 2024/02/06 |
| Signal Analyzer | ROHDE&SCHWARZ | FSW43 | SUWI-01-02-04 | 2023/05/11 | 2024/05/10 |
| Signal Analyzer | KEYSIGHT | N9020A | SUWI-01-02-05 | 2022/11/23 | 2023/11/22 |
| Test receiver | ROHDE&SCHWARZ | ESR7 | SUWI-01-10-01 | 2023/02/08 | 2024/02/07 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | VULB 9163 | SUWI-01-11-01 | 2023/05/13 | 2024/05/12 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9120D | SUWI-01-11-02 | 2023/05/13 | 2024/05/12 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9170 | SUWI-01-11-03 | 2023/05/12 | 2024/05/11 |
| Active Loop Antenna | SCHWRZBECK MESS-ELEKTRONIK | FMZB 1519B | SUWI-01-21-01 | 2023/05/13 | 2024/05/12 |
| Amplifier | Tonscend | TAP9K3G40 | SUWI-01-14-01 | 2023/02/06 | 2024/02/05 |
| Amplifier | Tonscend | TAP01018050 | SUWI-01-14-02 | 2023/02/06 | 2024/02/05 |
| Amplifier | Tonscend | TAP18040048 | SUWI-01-14-03 | 2023/02/08 | 2024/02/07 |
| Measurement Software | Tonscend | JS32-RE 4.0.0.0 | SUWI-02-09-04 | NCR | NCR |



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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Emission Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | 26dB EBW [MHz] | FL[MHz] | FH[MHz] | Verdict |
|------------|---------|----------------|----------------|---------|---------|--------------------|
| 11a-CDD | Ant0 | 5180 | 22.72 | 5170.64 | 5193.36 | For Report Purpose |
| 11a-CDD | Ant1 | 5180 | 18.84 | 5170.68 | 5189.52 | |
| 11a-CDD | Ant0 | 5220 | 18.52 | 5210.72 | 5229.24 | |
| 11a-CDD | Ant1 | 5220 | 18.64 | 5210.64 | 5229.28 | |
| 11a-CDD | Ant0 | 5240 | 21.64 | 5230.80 | 5252.44 | |
| 11a-CDD | Ant1 | 5240 | 21.68 | 5230.64 | 5252.32 | |
| 11a-CDD | Ant0 | 5745 | 21.84 | 5735.60 | 5757.44 | |
| 11a-CDD | Ant1 | 5745 | 22.24 | 5735.16 | 5757.40 | |
| 11a-CDD | Ant0 | 5785 | 18.72 | 5775.64 | 5794.36 | |
| 11a-CDD | Ant1 | 5785 | 18.64 | 5775.64 | 5794.28 | |
| 11a-CDD | Ant0 | 5825 | 18.64 | 5815.64 | 5834.28 | |
| 11a-CDD | Ant1 | 5825 | 18.68 | 5815.60 | 5834.28 | |
| 11ac20MIMO | Ant0 | 5180 | 19.48 | 5170.28 | 5189.76 | |
| 11ac20MIMO | Ant1 | 5180 | 19.60 | 5170.20 | 5189.80 | |
| 11ac20MIMO | Ant0 | 5220 | 19.52 | 5210.24 | 5229.76 | |
| 11ac20MIMO | Ant1 | 5220 | 19.68 | 5210.20 | 5229.88 | |
| 11ac20MIMO | Ant0 | 5240 | 19.68 | 5230.16 | 5249.84 | |
| 11ac20MIMO | Ant1 | 5240 | 19.56 | 5230.20 | 5249.76 | |
| 11ac20MIMO | Ant0 | 5745 | 19.56 | 5735.28 | 5754.84 | |
| 11ac20MIMO | Ant1 | 5745 | 19.52 | 5735.24 | 5754.76 | |
| 11ac20MIMO | Ant0 | 5785 | 19.68 | 5775.20 | 5794.88 | |
| 11ac20MIMO | Ant1 | 5785 | 19.56 | 5775.20 | 5794.76 | |
| 11ac20MIMO | Ant0 | 5825 | 19.32 | 5815.32 | 5834.64 | |
| 11ac20MIMO | Ant1 | 5825 | 19.60 | 5815.24 | 5834.84 | |
| 11ac40MIMO | Ant0 | 5190 | 41.76 | 5169.12 | 5210.88 | |
| 11ac40MIMO | Ant1 | 5190 | 41.28 | 5169.12 | 5210.40 | |
| 11ac40MIMO | Ant0 | 5230 | 41.60 | 5209.12 | 5250.72 | |
| 11ac40MIMO | Ant1 | 5230 | 41.04 | 5209.36 | 5250.40 | |
| 11ac40MIMO | Ant0 | 5755 | 43.52 | 5733.56 | 5777.08 | |
| 11ac40MIMO | Ant1 | 5755 | 41.28 | 5734.36 | 5775.64 | |
| 11ac40MIMO | Ant0 | 5795 | 40.96 | 5774.28 | 5815.24 | |
| 11ac40MIMO | Ant1 | 5795 | 41.12 | 5774.44 | 5815.56 | |
| 11ac80MIMO | Ant0 | 5210 | 81.44 | 5169.20 | 5250.64 | |
| 11ac80MIMO | Ant1 | 5210 | 81.44 | 5169.20 | 5250.64 | |
| 11ac80MIMO | Ant0 | 5775 | 81.92 | 5734.04 | 5815.96 | |
| 11ac80MIMO | Ant1 | 5775 | 81.76 | 5734.04 | 5815.80 | |

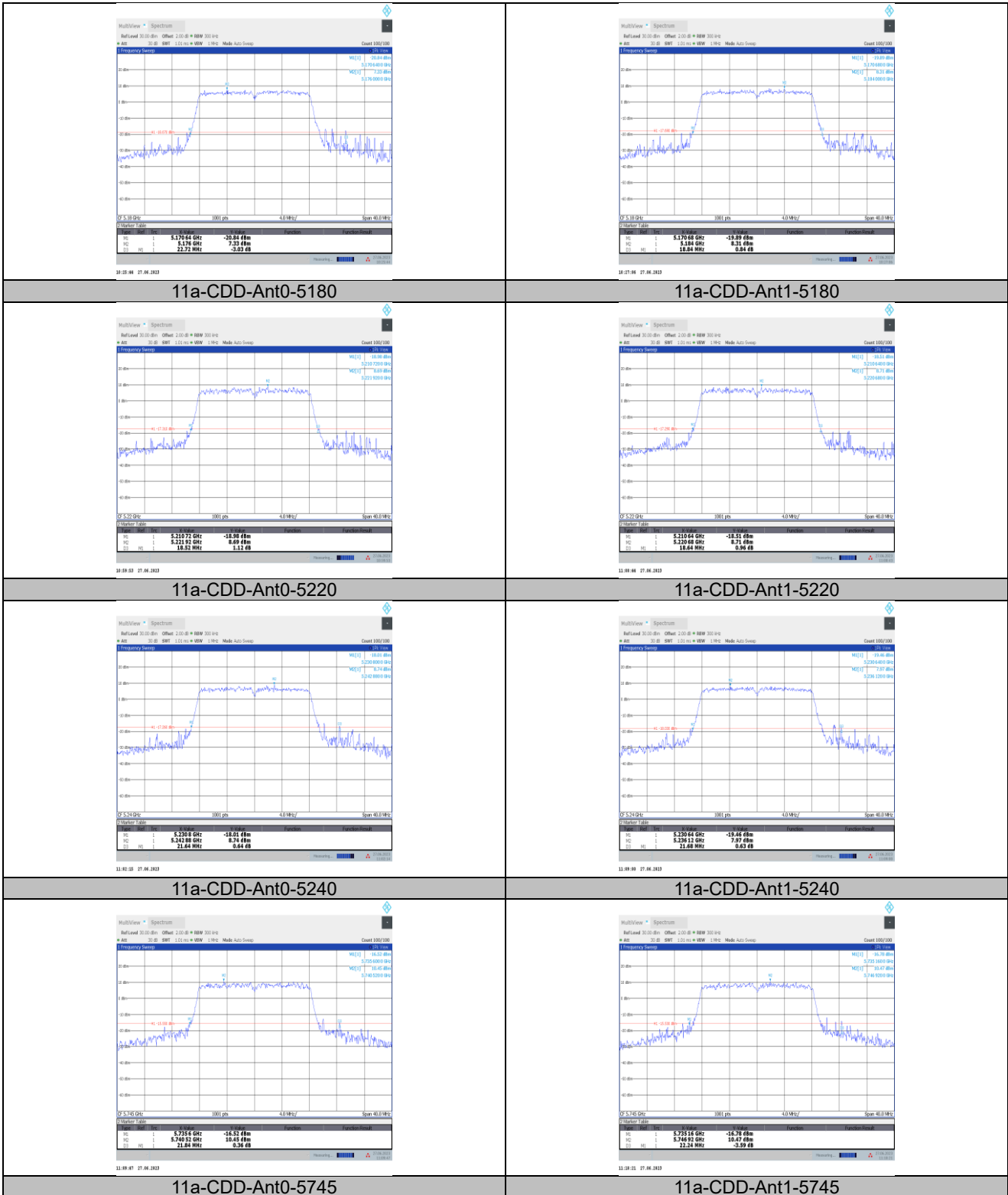
Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11ac VHT20/40 by referring to their higher output power.



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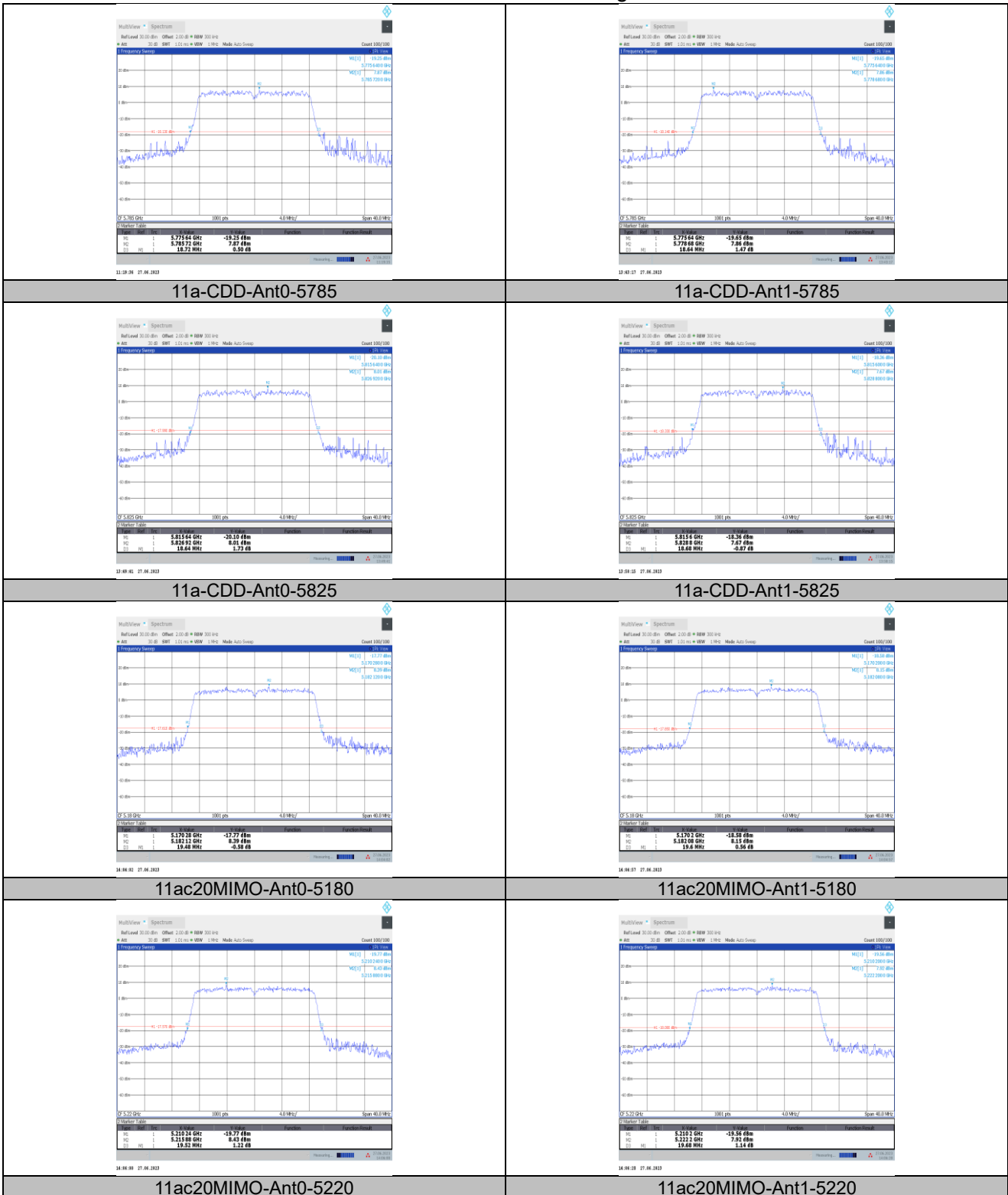
Test Graphs



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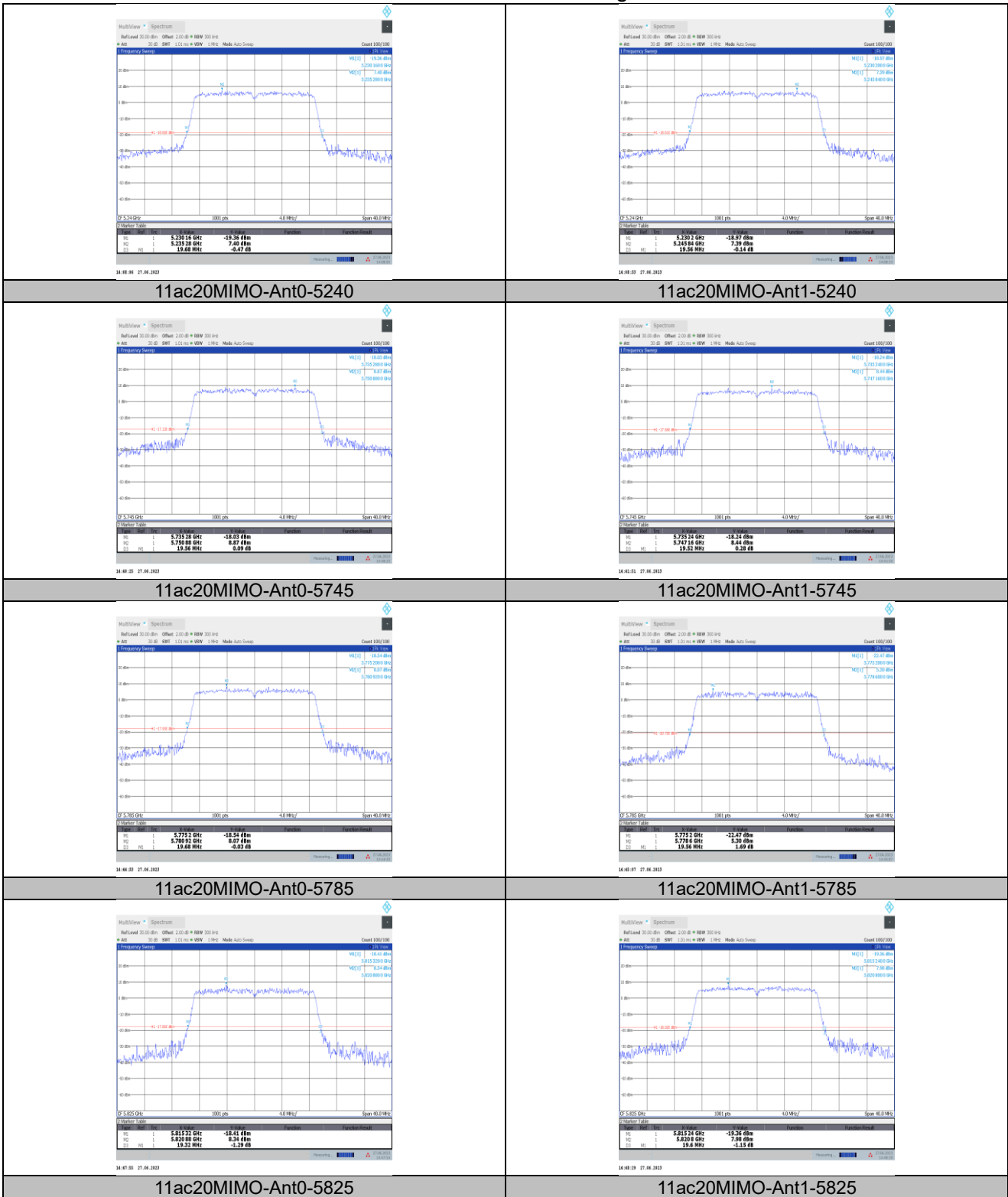
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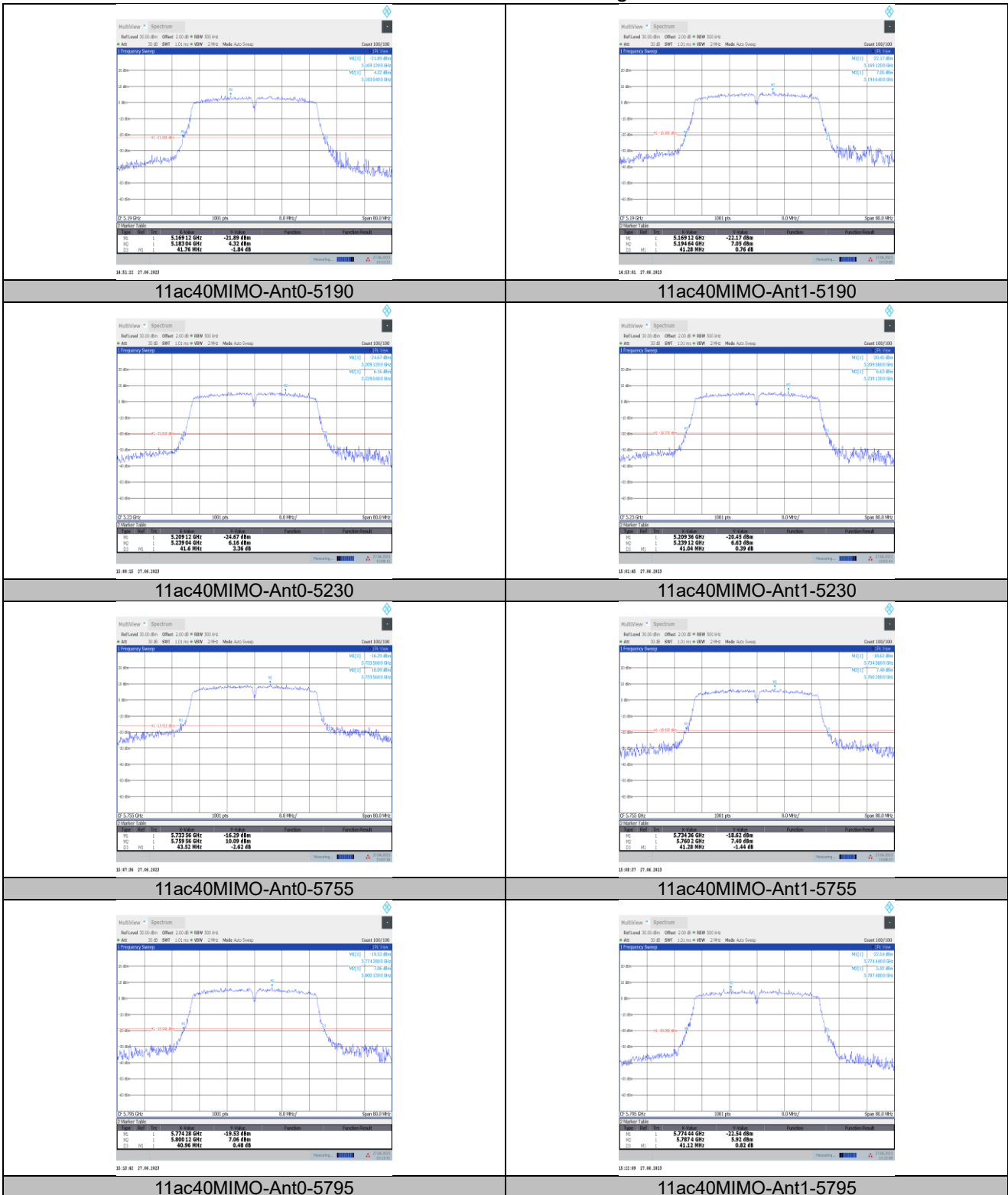


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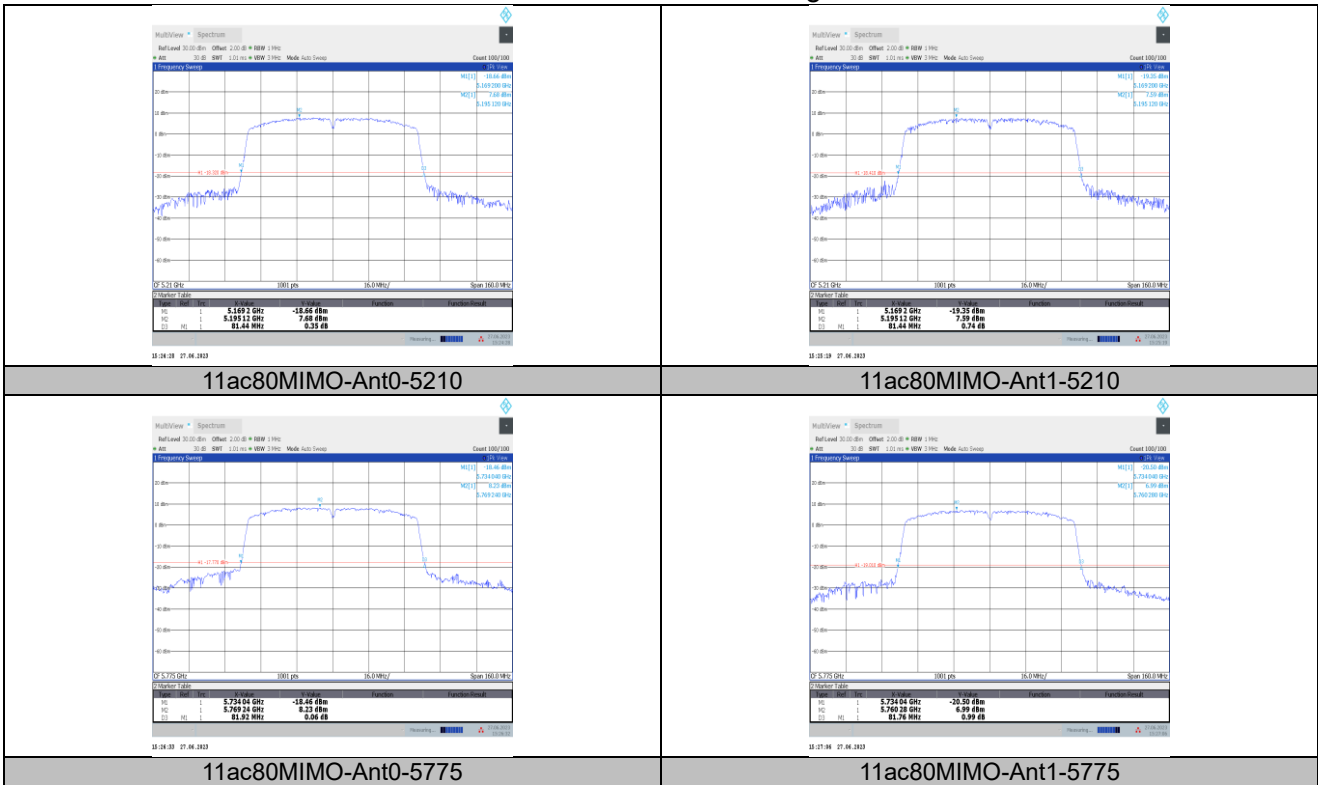
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Occupied channel bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Verdict |
|------------|---------|----------------|-----------|-----------|-----------|--------------------|
| 11a-CDD | Ant0 | 5180 | 16.589 | 5171.7542 | 5188.3427 | For Report Purpose |
| 11a-CDD | Ant1 | 5180 | 16.584 | 5171.7503 | 5188.3340 | |
| 11a-CDD | Ant0 | 5220 | 16.543 | 5211.7434 | 5228.2863 | |
| 11a-CDD | Ant1 | 5220 | 16.559 | 5211.7382 | 5228.2976 | |
| 11a-CDD | Ant0 | 5240 | 16.582 | 5231.7430 | 5248.3250 | |
| 11a-CDD | Ant1 | 5240 | 16.574 | 5231.7258 | 5248.2993 | |
| 11a-CDD | Ant0 | 5745 | 16.596 | 5736.7211 | 5753.3174 | |
| 11a-CDD | Ant1 | 5745 | 16.576 | 5736.7456 | 5753.3214 | |
| 11a-CDD | Ant0 | 5785 | 16.545 | 5776.7421 | 5793.2875 | |
| 11a-CDD | Ant1 | 5785 | 16.526 | 5776.7531 | 5793.2791 | |
| 11a-CDD | Ant0 | 5825 | 16.553 | 5816.7409 | 5833.2940 | |
| 11a-CDD | Ant1 | 5825 | 16.501 | 5816.7694 | 5833.2707 | |
| 11ac20MIMO | Ant0 | 5180 | 17.714 | 5171.1517 | 5188.8652 | |
| 11ac20MIMO | Ant1 | 5180 | 17.705 | 5171.1706 | 5188.8755 | |
| 11ac20MIMO | Ant0 | 5220 | 17.689 | 5211.1533 | 5228.8427 | |
| 11ac20MIMO | Ant1 | 5220 | 17.681 | 5211.1823 | 5228.8635 | |
| 11ac20MIMO | Ant0 | 5240 | 17.712 | 5231.1548 | 5248.8667 | |
| 11ac20MIMO | Ant1 | 5240 | 17.685 | 5231.1598 | 5248.8450 | |
| 11ac20MIMO | Ant0 | 5745 | 17.733 | 5736.1459 | 5753.8791 | |
| 11ac20MIMO | Ant1 | 5745 | 17.718 | 5736.1471 | 5753.8650 | |
| 11ac20MIMO | Ant0 | 5785 | 17.715 | 5776.1494 | 5793.8641 | |
| 11ac20MIMO | Ant1 | 5785 | 17.707 | 5776.1654 | 5793.8724 | |
| 11ac20MIMO | Ant0 | 5825 | 17.678 | 5816.1755 | 5833.8533 | |
| 11ac20MIMO | Ant1 | 5825 | 17.698 | 5816.1715 | 5833.8693 | |
| 11ac40MIMO | Ant0 | 5190 | 36.291 | 5171.9618 | 5208.2529 | |
| 11ac40MIMO | Ant1 | 5190 | 36.304 | 5171.9449 | 5208.2488 | |
| 11ac40MIMO | Ant0 | 5230 | 36.297 | 5211.9005 | 5248.1976 | |
| 11ac40MIMO | Ant1 | 5230 | 36.343 | 5211.8870 | 5248.2300 | |
| 11ac40MIMO | Ant0 | 5755 | 36.605 | 5736.7848 | 5773.3900 | |
| 11ac40MIMO | Ant1 | 5755 | 36.318 | 5736.8797 | 5773.1982 | |
| 11ac40MIMO | Ant0 | 5795 | 36.322 | 5776.8954 | 5813.2177 | |
| 11ac40MIMO | Ant1 | 5795 | 36.323 | 5776.9071 | 5813.2305 | |
| 11ac80MIMO | Ant0 | 5210 | 74.88 | 5172.6026 | 5247.4827 | |
| 11ac80MIMO | Ant1 | 5210 | 75.006 | 5172.5581 | 5247.5636 | |
| 11ac80MIMO | Ant0 | 5775 | 75.158 | 5737.4249 | 5812.5830 | |
| 11ac80MIMO | Ant1 | 5775 | 74.988 | 5737.5305 | 5812.5189 | |

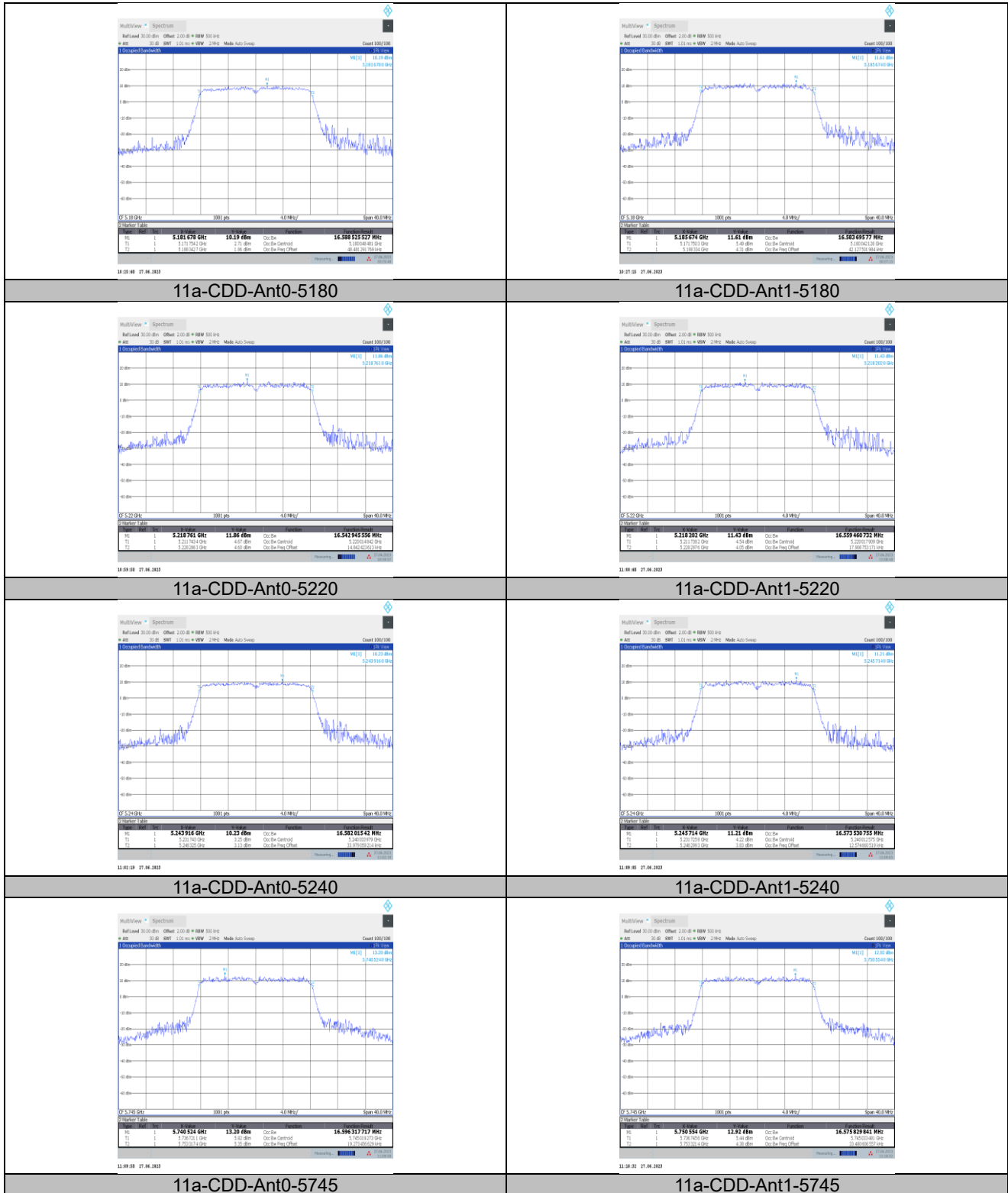
Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11ac VHT20/40 by referring to their higher output power.



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Test Graphs

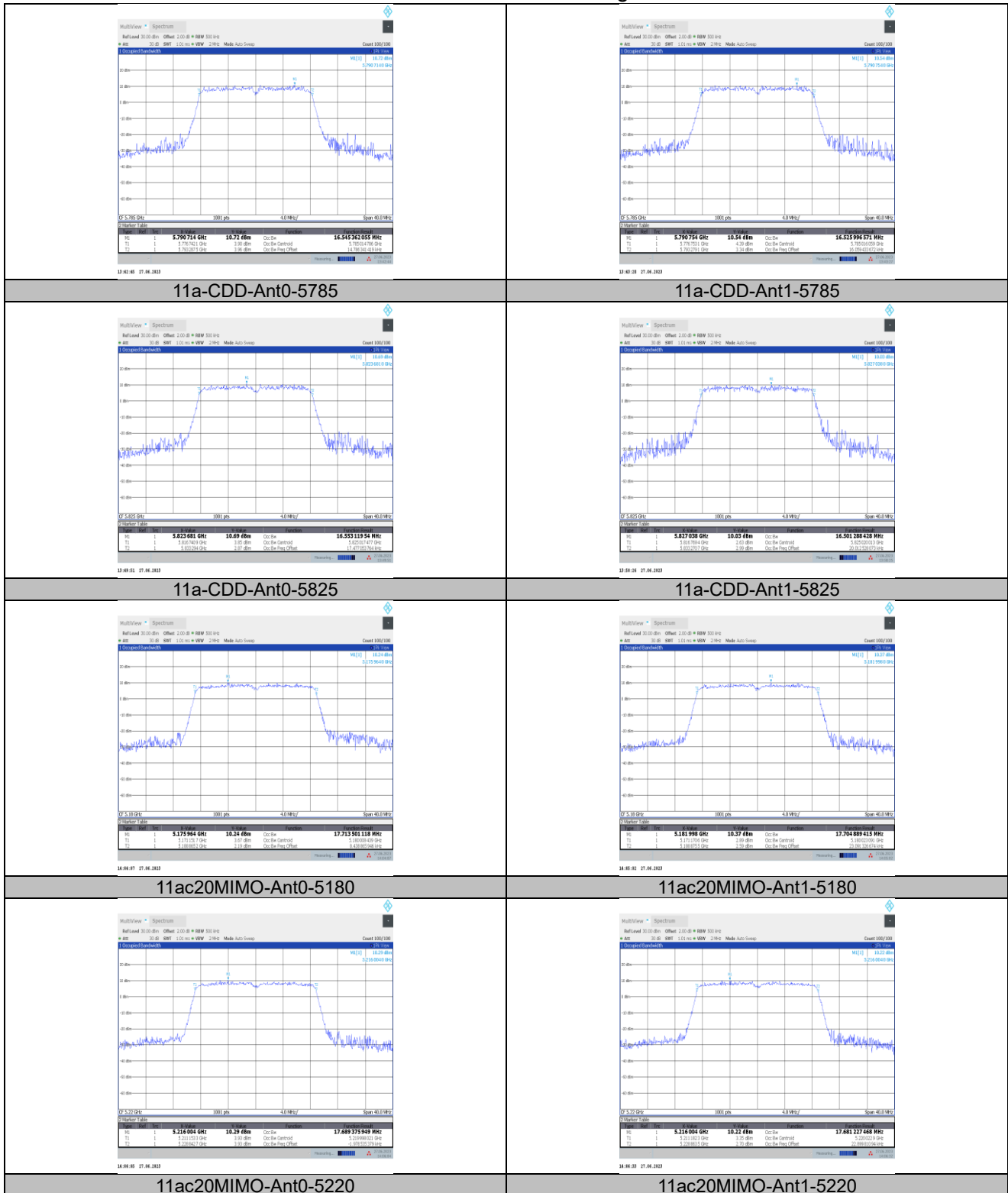


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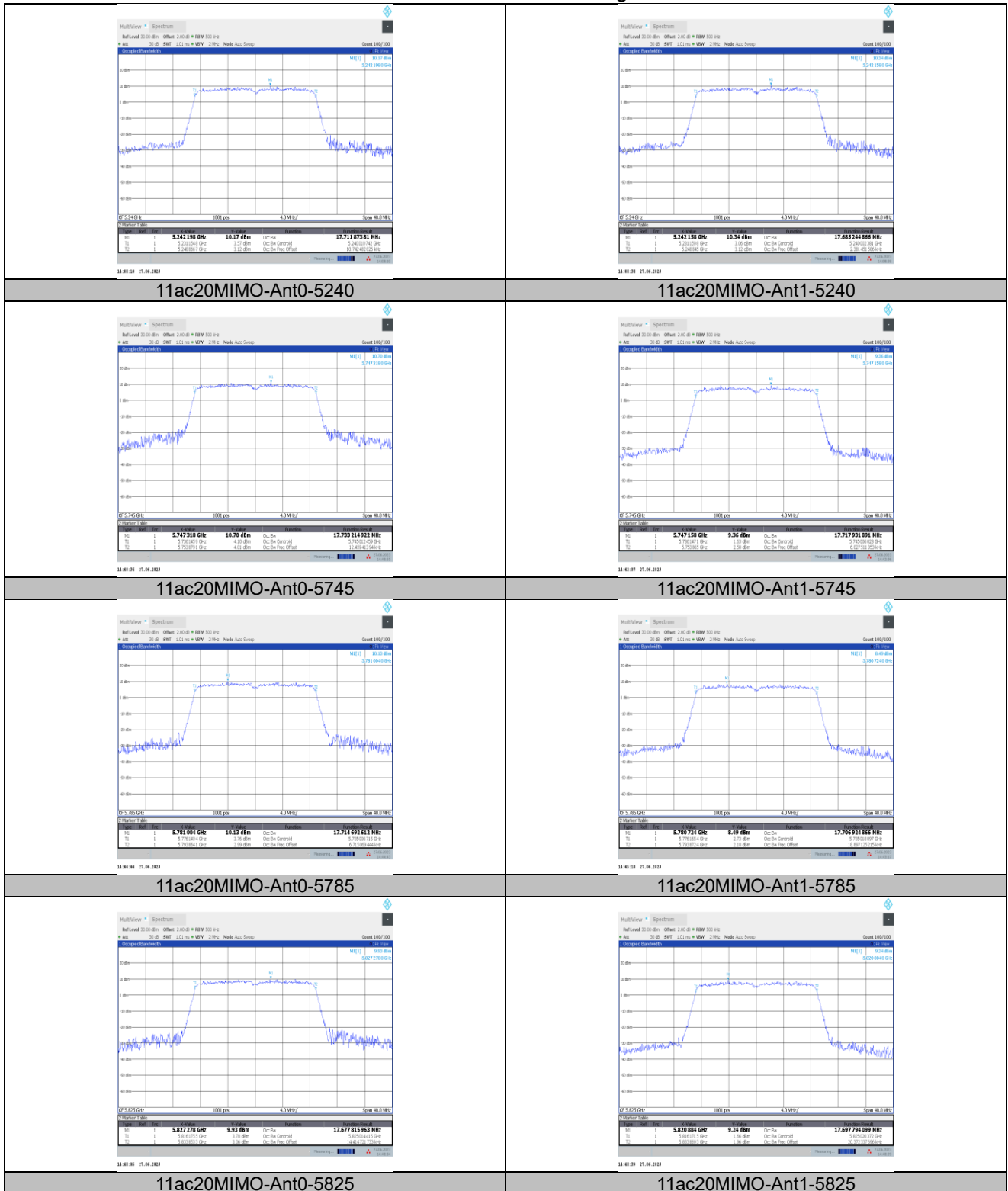
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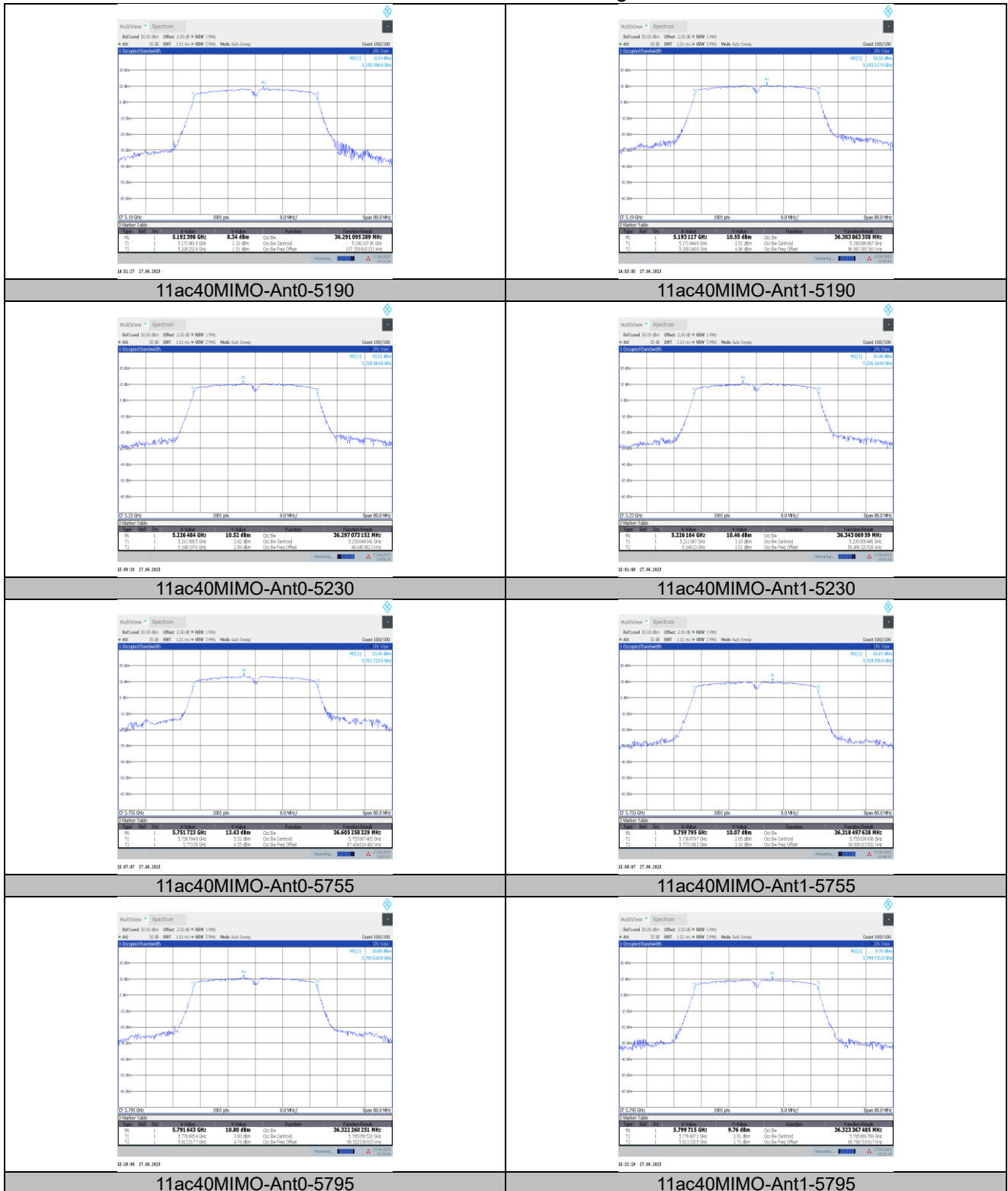
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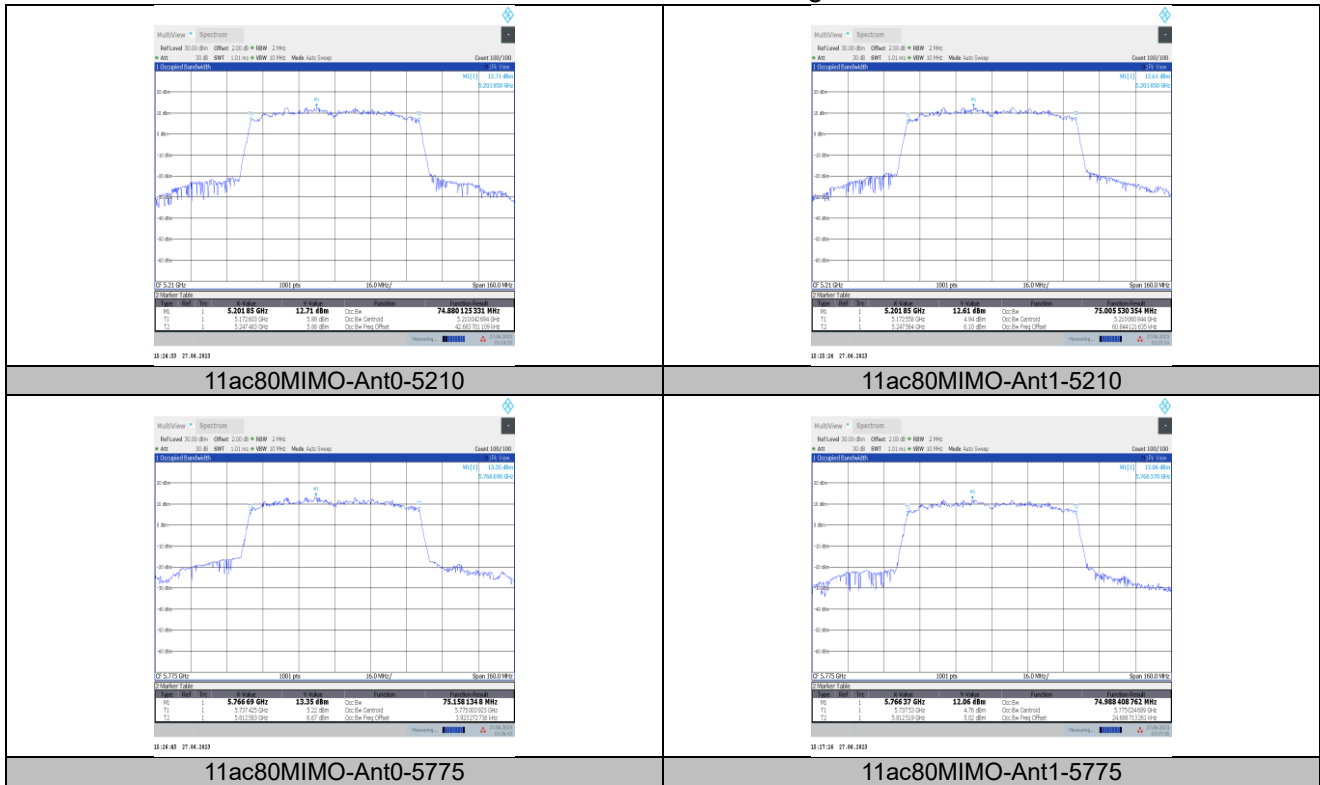
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6dB emission bandwidth

Test Result B4

| TestMode | Antenna | Frequency[MHz] | 6dB EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|----------------|---------------|---------|---------|------------|---------|
| 11a-CDD | Ant0 | 5745 | 16.40 | 5736.80 | 5753.20 | ≥0.5 | PASS |
| 11a-CDD | Ant1 | 5745 | 16.40 | 5736.80 | 5753.20 | ≥0.5 | PASS |
| 11a-CDD | Ant0 | 5785 | 16.40 | 5776.80 | 5793.20 | ≥0.5 | PASS |
| 11a-CDD | Ant1 | 5785 | 16.40 | 5776.80 | 5793.20 | ≥0.5 | PASS |
| 11a-CDD | Ant0 | 5825 | 16.40 | 5816.80 | 5833.20 | ≥0.5 | PASS |
| 11a-CDD | Ant1 | 5825 | 16.40 | 5816.80 | 5833.20 | ≥0.5 | PASS |
| 11ac20MIMO | Ant0 | 5745 | 17.24 | 5736.20 | 5753.44 | ≥0.5 | PASS |
| 11ac20MIMO | Ant1 | 5745 | 17.60 | 5736.20 | 5753.80 | ≥0.5 | PASS |
| 11ac20MIMO | Ant0 | 5785 | 17.60 | 5776.20 | 5793.80 | ≥0.5 | PASS |
| 11ac20MIMO | Ant1 | 5785 | 17.36 | 5776.44 | 5793.80 | ≥0.5 | PASS |
| 11ac20MIMO | Ant0 | 5825 | 17.60 | 5816.20 | 5833.80 | ≥0.5 | PASS |
| 11ac20MIMO | Ant1 | 5825 | 17.60 | 5816.20 | 5833.80 | ≥0.5 | PASS |
| 11ac40MIMO | Ant0 | 5755 | 32.08 | 5738.04 | 5770.12 | ≥0.5 | PASS |
| 11ac40MIMO | Ant1 | 5755 | 35.20 | 5737.40 | 5772.60 | ≥0.5 | PASS |
| 11ac40MIMO | Ant0 | 5795 | 35.28 | 5777.32 | 5812.60 | ≥0.5 | PASS |
| 11ac40MIMO | Ant1 | 5795 | 35.28 | 5777.32 | 5812.60 | ≥0.5 | PASS |
| 11ac80MIMO | Ant0 | 5775 | 75.52 | 5737.24 | 5812.76 | ≥0.5 | PASS |
| 11ac80MIMO | Ant1 | 5775 | 74.24 | 5738.52 | 5812.76 | ≥0.5 | PASS |

Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11ac VHT20/40 by referring to their higher output power.

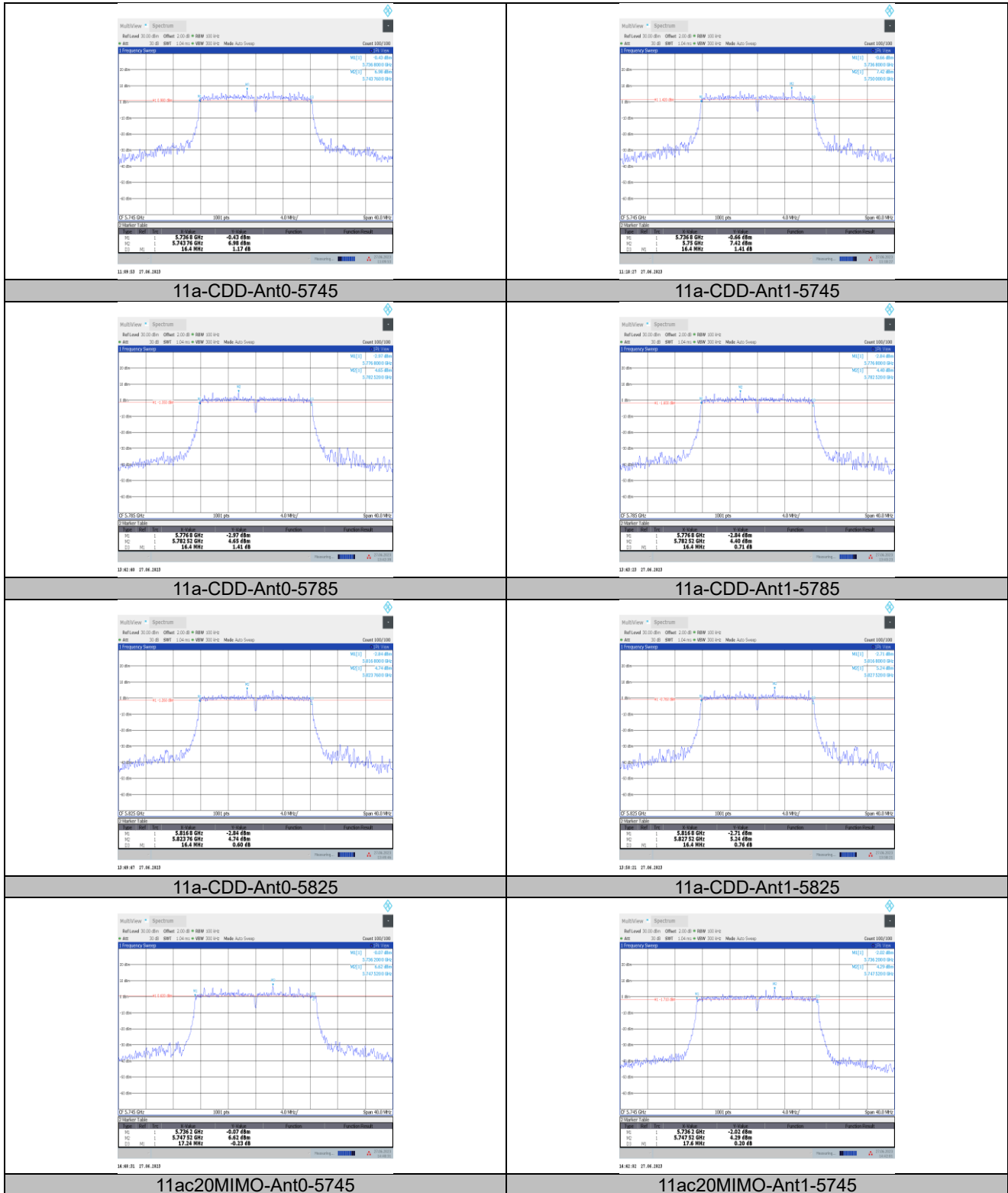


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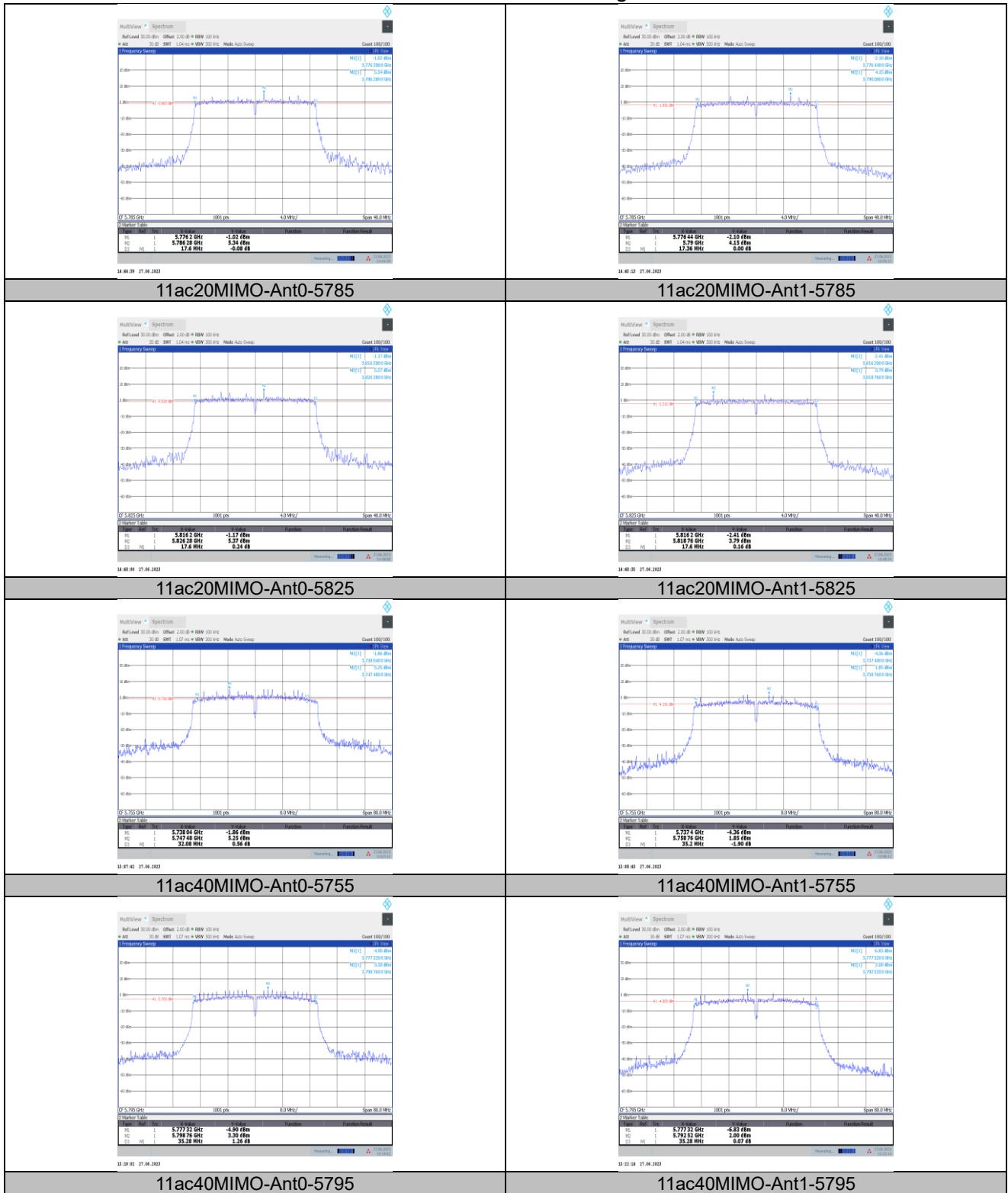
Test Graphs B4



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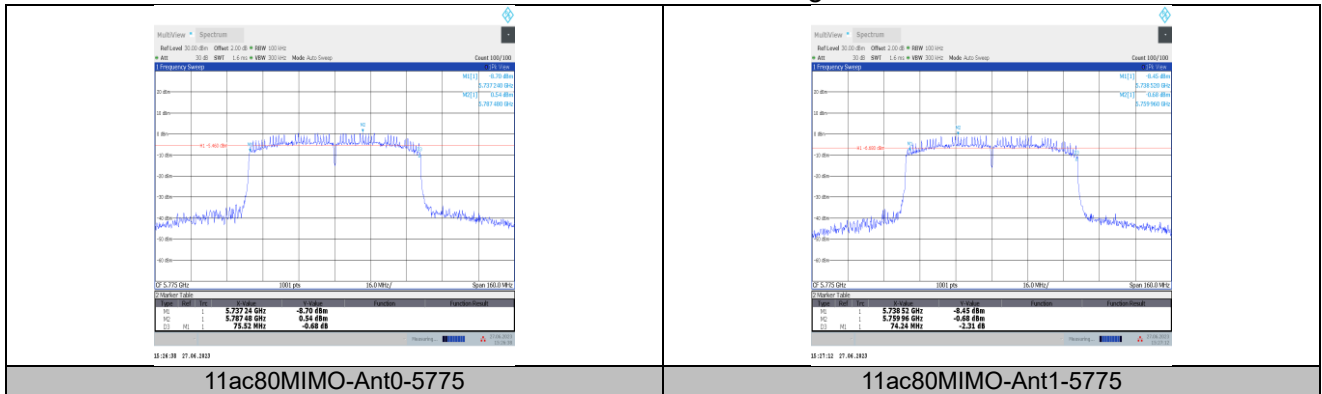
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Duty Cycle

Test Result

| TestMode | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|------------|---------|----------------|----------------------------|--------------------------|----------------|
| 11a-CDD | Ant0 | 5180 | 2.06 | 2.23 | 92.38 |
| 11a-CDD | Ant1 | 5180 | 2.07 | 2.21 | 93.67 |
| 11n20MIMO | Ant0 | 5180 | 1.93 | 2.14 | 90.19 |
| 11n20MIMO | Ant1 | 5180 | 1.92 | 2.13 | 90.14 |
| 11n40MIMO | Ant0 | 5190 | 0.94 | 1.18 | 79.66 |
| 11n40MIMO | Ant1 | 5190 | 0.94 | 1.17 | 80.34 |
| 11ac20MIMO | Ant0 | 5180 | 1.93 | 2.17 | 88.94 |
| 11ac20MIMO | Ant1 | 5180 | 1.93 | 2.17 | 88.94 |
| 11ac40MIMO | Ant0 | 5190 | 0.95 | 1.20 | 79.17 |
| 11ac40MIMO | Ant1 | 5190 | 0.95 | 1.19 | 79.83 |
| 11ac80MIMO | Ant0 | 5210 | 0.46 | 0.71 | 64.79 |
| 11ac80MIMO | Ant1 | 5210 | 0.46 | 0.70 | 65.71 |

Note:

Radiated Emission Average VBW = 1 / T

| TestMode | T[ms] | Period[ms] | Duty Cycle[%] | 1/T[kHz] | VBW Setting |
|------------|-------|------------|---------------|----------|-------------|
| 11a-CDD | 2.07 | 2.21 | 93.67 | 0.48309 | 0.51KHz |
| 11ac20MIMO | 1.93 | 2.17 | 88.94 | 0.51813 | 0.56KHz |
| 11ac40MIMO | 0.95 | 1.19 | 79.83 | 1.05263 | 1.1KHz |
| 11ac80MIMO | 0.46 | 0.70 | 65.71 | 2.17391 | 2.22KHz |



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