

Report No.: SEWM2306000195RG05

Rev.: 01

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TEST REPORT

Application No.: SEWM2306000195RG

Applicant: Guangdong OPPO Mobile Telecommunications Corp., Ltd.

Address of Applicant: NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City,

Guangdong, China

Manufacturer: Guangdong OPPO Mobile Telecommunications Corp., Ltd.

Address of Manufacturer: NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City,

Guangdong, China

EUT Description: Mobile Phone
Model No.: CPH2579
Trade Mark: OPPO

FCC ID: R9C-CPH2579

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

Date of Receipt: 2023/06/09

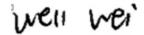
Date of Test: 2023/06/13 to 2023/06/28

Date of Issue: 2023/07/04

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 | | 2023/07/04 | | Original |

| Prepared By | (Ives Cheng) / Test Engineer |
|-------------|------------------------------|
| Checked By | (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 Band II-A Band II-C | 15.407(a)(1) 15.407(a)(2) 15.407(a)(2) | 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 II-A Band II-C Band III | KDB 789033 D02§ D | No limit. | Clause 4.7 | For Report Purpose |
| Duty Cycle | Band I Band II-A Band II-C Band III | | No limit. | Clause 4.3 | For Report Purpose |
| Maximum | Band I | 15.407(a)(iv) | < 250mW | | |
| Conducted Output Power | Band II-A Band II-C | 15.407(a)(2) | <min{250mw,11dbm+10*lg(ebw)}< td=""><td>Clause 4.4</td><td>PASS</td></min{250mw,11dbm+10*lg(ebw)}<> | Clause 4.4 | PASS |
| Output i owei | Band III | 15.407(a)(3) | < 1W | | |
| Maximum | Band I | 15.407(a)(iv) | <11dBm/MHz | | |
| Power Spectral Density | Band II-A Band II-C | 15.407(a)(2) | <11dBm/MHz | Clause 4.8 | PASS |
| Donoity | Band III | 15.407(a)(3) | <30dBm/500KHz | | |
| | 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). | | PASS |
| Radiated Spurious Emissions | Band II-A | 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. 5.25- 5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK). | Clause 4.9 | PASS |
| | Band II-C | 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. 5.47- 5.725 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK). | | PASS |
| | Band III | 15.407(b) 15.205/15.209 | F<1GHz: §15.209 limit (QP) F≥1GHz &out-restricted:(PK) | | PASS |



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Restricted

bands around

Band I Band II-A

15.407(b)

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Clause

PASS

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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

> > §15.209 limit (AV&PK).

normal operation as specified in the users manual

linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted:

Band II-C 15.205/15.209 fundamental 4.10 frequency Band III Band I **AC Power Line** Band II-A Clause Conducted **PASS** 15.207 Band II-C 4.2 **Emissions** Band III Dynamic Band II-A Clause **PASS** Frequency 15.407 Channel Move Time: 10 Seconds Band II-C 4.11 Selection Manufacturers of U-NII devices are responsible for ensuring frequency Band I stability such that an emission is Frequency Band II-A 15.407(g) maintained within the band of N/A N/A Stability Band II-C operation under all conditions of Band III

Note 1:

Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz



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3 General Information

3.1 Details of Client

| Applicant: | Guangdong OPPO Mobile Telecommunications Corp., Ltd. |
|--------------------------|--|
| Address of Applicant: | NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China |
| Manufacturer: | Guangdong OPPO Mobile Telecommunications Corp., Ltd. |
| Address of Manufacturer: | NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China |

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: | Mobile Phone | | | |
|----------------------|--|--|--------------------------|-----------------------|
| Model No.: | CPH2579 | | | |
| Trade Mark: | ОРРО | | | |
| Hardware Version: | 11 | | | |
| Software Version: | ColorOS 13 | 3.1 | | |
| | RF Conduc | ted | IMEI1 | : 867723060021390 |
| IMEI: | RSE & AC | RSE & AC power line IMEI1: 867723060021119 IMEI2: 867723060021101 | | |
| | 802.11a: | 20 MHz chann | 20 MHz channel bandwidth | |
| WLAN Mode Supported: | 802.11n: | 20 MHz / 40 MHz channel bandwidth | | |
| | 802.11ac: | 20 MHz / 40 M | Hz / 80 | MHz channel bandwidth |
| Operation Frequency: | 5150MHz to 5250MHz to 5470MHz to 5725MHz to | 5350MHz 5725MHz | | |
| | 802.11a: | OFDM (BPSK, | QPSK | , 16QAM, 64QAM) |
| Modulation Type: | 802.11n: | OFDM (BPSK, QPSK, 16QAM, 64QAM) | | |
| | 802.11ac: | OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) | | |
| | 20MHz: | 802.11a/n(HT20)/ac(VHT20) | | |
| Channel Spacing: | 40MHz: | 802.11n(HT40)/ac(VHT40) | | |
| | 80MHz: | 802.11ac(VHT80) | | |
| Antenna Type: | Fixed Intern | iternal Antenna | | |
| Antenna Gain: | 5250MHz to 5470MHz to | ИНz to 5250MHz: 2.0dBi(Ant2); ИНz to 5350MHz: 2.5dBi(Ant2); ИНz to 5725MHz: 2.5dBi(Ant2); ИНz to 5850MHz: 1.5dBi(Ant2); | | |
| | Note: The antenna gain are derived from the gain information report provided by the manufacturer. | | | |
| | SISO | 802.11a/n/ad | | |
| | | | 11a/n/ac: Tx & Rx | |
| Smart System: | □ мімо | STBC: 802.1 | | |
| | | TXBF: 802.11n/ac: Tx & Rx | | |
| | ☐ Diversity | sity 802.11a: Tx & Rx | | |
| TPC Function: | ☐Support, | port, Not Support | | |
| DFS Function: | □Master | | | |
| DES FUNCTION. | ☐Slave with radar detection ☐Slave without radar detection | | | |



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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) | | |
| | The Lowest channel | 5180 | | |
| IEEE 802.11a/n/ac 20MHz | The Middle channel | 5200 | | |
| | The Highest channel | 5240 | | |
| IEEE 000 44 m/s s 40 MHz | The Lowest channel | 5190 | | |
| IEEE 802.11n/ac 40MHz | The Highest channel | 5230 | | |
| IEEE 802.11ac 80MHz | The Middle channel | 5210 | | |

| For UNII Band II-A: | | | | |
|-------------------------|---------------------|----------------|--|--|
| Mode | Channel | Frequency(MHz) | | |
| IEEE 802.11a/n/ac 20MHz | The Lowest channel | 5260 | | |
| | The Middle channel | 5280 | | |
| | The Highest channel | 5320 | | |
| IEEE 000 44 m/s - 40MHz | The Lowest channel | 5270 | | |
| IEEE 802.11n/ac 40MHz | The Highest channel | 5310 | | |
| IEEE 802.11ac 80MHz | The Middle channel | 5290 | | |



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| For UNII Band II-C: | | | |
|-------------------------|---------------------|----------------|--|
| Mode | Channel | Frequency(MHz) | |
| | The Lowest channel | 5500 | |
| IEEE 802.11a/n/ac 20MHz | The Middle channel | 5580 | |
| | The Highest channel | 5700 | |
| | The Lowest channel | 5510 | |
| IEEE 802.11n/ac 40MHz | The Middle channel | 5550 | |
| | The Highest channel | 5670 | |
| IEEE 802.11ac 80MHz | The Middle channel | 5530 | |

| For UNII Band III: | | | | |
|-------------------------|---------------------|----------------|--|--|
| Mode | Channel | Frequency(MHz) | | |
| | The Lowest channel | 5745 | | |
| IEEE 802.11a/n/ac 20MHz | The Middle channel | 5785 | | |
| | The Highest channel | 5825 | | |
| JEEE 000 44 / 401 HJ | The Lowest channel | 5755 | | |
| IEEE 802.11n/ac 40MHz | The Highest channel | 5795 | | |
| IEEE 802.11ac 80MHz | The Middle channel | 5775 | | |

| Frequency Band | Channel | Freq.(MHz) | Channel | Freq.(MHz) |
|----------------|--------------------|------------|--------------------|------------|
| | 120 ^[1] | 5600 | 124 ^[1] | 5620 |
| TDWR Channel | 128 ^[1] | 5640 | 118 ^[2] | 5590 |
| | 126 ^[2] | 5630 | 122[3] | 5610 |

Note:

- 1. The above Frequency and Channel were 802.11a, 802.11n HT20 and 802.11ac VHT20.
- 2. The above Frequency and Channel were 802.11n HT40 and 802.11ac VHT40.
- 3. The above Frequency and Channel were 802.11ac VHT80.



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3.5 Test Environment and Mode

| Environment Parameter | 101.0 kPa Selected Values During Tests | | | |
|-----------------------|--|------------|--|--|
| Relative Humidity | 44-46 % RH Ambient | | | |
| Value | Temperature(°C) | Voltage(V) | | |
| NTNV | 22~23 | 3.91 | | |

Remark:

NV: Normal Voltage NT: Normal Temperature

3.6 Description of Support Units

| Description | Manufacturer | Model No. | | |
|-------------|--------------|--------------------------------------|--|--|
| Router | ASUS | GT-AXE11000 (FCC ID MSQ-RTAXJF00) | | |

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 | MIMO - Data Rate |
|-------------------|------------------|------------------|
| 802.11a | 6 Mbps | / |
| 802.11n (HT 20) | MCS0 (6.5 Mbps) | / |
| 802.11n (HT 40) | MCS0 (13.5 Mbps) | / |
| 802.11ac (VHT 20) | MCS0 (6.5 Mbps) | / |
| 802.11ac (VHT 40) | MCS0 (13.5 Mbps) | / |
| 802.11ac (VHT 80) | MCS0 (29.3 Mbps) | / |



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15 Section 15.203

The antenna is Fixed Internal Antenna and no consideration of replacement.

The best case gain of the antenna is 5150MHz to 5250MHz: 2.0dBi(Ant2); 5250MHz to 5350MHz: 2.5dBi(Ant2); 5470MHz to 5725MHz: 2.5dBi(Ant2); 5725MHz to 5850MHz: 1.5dBi(Ant2);*

*Note

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

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.



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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 = 30 | kHz | | | |
| Limit: | Limit (dBuV) | | | | |
| | Frequency range (MHz) | 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 log | arithm of the frequency. | | | |
| Test Procedure: | room. 2) The EUT was connected impedance. The power connected to a second plane in the same was multiple socket outlet single LISN provided. 3) The tabletop EUT was ground reference plane placed on the horizor. 4) The test was perform of the EUT shall be overtical ground reference plane. The unit under test and be mounted on top of the between the closest put the EUT and associal. | * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a sh room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground refe 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 cable 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 ground reference plane. And for floor-standing arrangement, the EUT placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rof the EUT shall be 0.4 m from the vertical ground reference plane. The rof the EUT shall be 0.4 m from the vertical ground reference plane. The rof the EUT shall be 0.4 m from the vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of 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 the EUT and associated equipment was at least 0.8 m from the LISN 1 norder to find the maximum emission, the relative positions of | | | |



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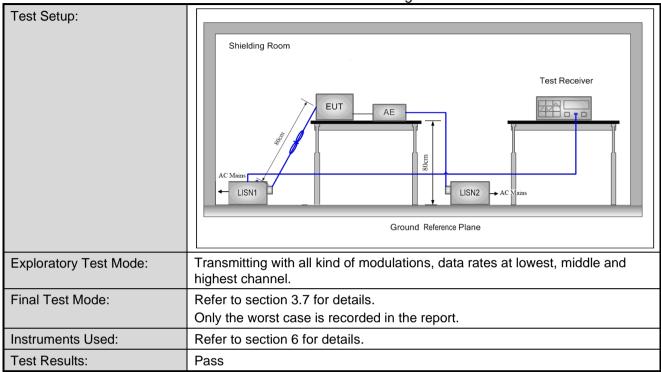
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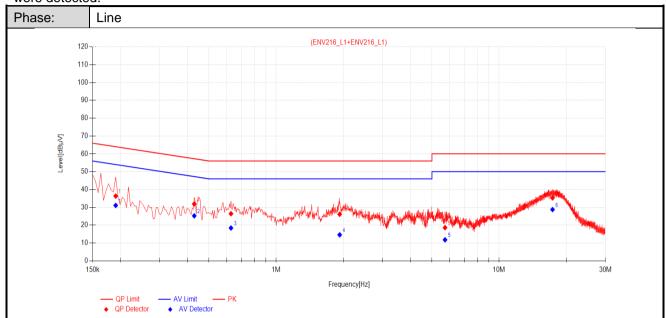
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Measurement Data

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 | 0.1905 | 11.67 | 24.65 | 36.32 | 64.01 | 27.69 | 19.42 | 31.09 | 54.01 | 22.92 | PASS |
| 2 | 0.4290 | 11.62 | 20.28 | 31.90 | 57.27 | 25.37 | 13.63 | 25.25 | 47.27 | 22.02 | PASS |
| 3 | 0.6270 | 11.64 | 14.81 | 26.45 | 56.00 | 29.55 | 6.78 | 18.42 | 46.00 | 27.58 | PASS |
| 4 | 1.9275 | 11.74 | 14.40 | 26.14 | 56.00 | 29.86 | 2.86 | 14.60 | 46.00 | 31.40 | PASS |
| 5 | 5.7255 | 11.84 | 6.79 | 18.63 | 60.00 | 41.37 | -0.03 | 11.81 | 50.00 | 38.19 | PASS |
| 6 | 17.3850 | 11.96 | 23.37 | 35.33 | 60.00 | 24.67 | 16.81 | 28.77 | 50.00 | 21.23 | PASS |

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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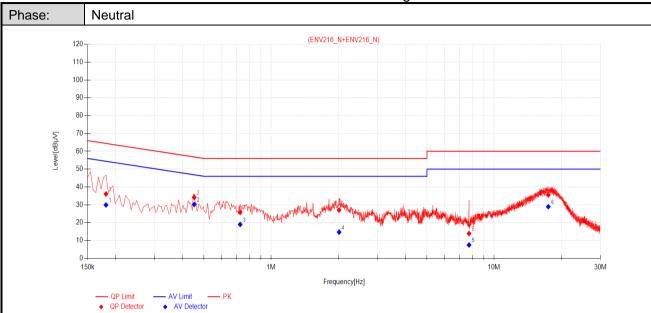
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| Data | List | | | | | | | | | | |
|------|--------------------|----------------|-------------------------|-----------------------|-----------------------|----------------------|-------------------------|-----------------------|-----------------------|----------------------|---------|
| 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 | 0.1815 | 11.71 | 24.39 | 36.10 | 64.42 | 28.32 | 18.22 | 29.93 | 54.42 | 24.49 | PASS |
| 2 | 0.4515 | 11.60 | 22.60 | 34.20 | 56.85 | 22.65 | 18.64 | 30.24 | 46.85 | 16.61 | PASS |
| 3 | 0.7260 | 11.68 | 14.17 | 25.85 | 56.00 | 30.15 | 7.32 | 19.00 | 46.00 | 27.00 | PASS |
| 4 | 2.0175 | 11.73 | 15.35 | 27.08 | 56.00 | 28.92 | 2.94 | 14.67 | 46.00 | 31.33 | PASS |
| 5 | 7.7280 | 11.89 | 2.03 | 13.92 | 60.00 | 46.08 | -4.39 | 7.50 | 50.00 | 42.50 | PASS |
| 6 | 17.5245 | 11.97 | 23.58 | 35.55 | 60.00 | 24.45 | 16.98 | 28.95 | 50.00 | 21.05 | PASS |

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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4.3 Duty Cycle

The detailed test data see: Appendix



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4.4 Conducted Output Power

| Test Requirement: | 47 CFR Part 15 Se | ection 15.407(a)(iv | ·) | | | |
|-------------------------------|--|--|---|---|--|--|
| Test Method: | ANSI C63.10-2020 | ANSI C63.10-2020 Section 12.4.3.2 | | | | |
| Test Setup: | Power meter O | Power probe | | E.U.T | | |
| | | Grou | ınd Reference Plane | | | |
| | provided that the g | easurement using y be performed us ate parameters ar en the EUT is tran measurement is r | g a gated RF avera sing a wideband g e adjusted such the smitting at its max made only during t | ated RF power meton nat the power is kimum power contro | | |
| Test Instruments: | Refer to section 6 f | or details. | | | | |
| Exploratory Test Mode: | Transmitting with a | ll kind of modulati | ons, data rates | | | |
| Final Test Mode: | Refer to section 3.7 | 7 for details. | | | | |
| Limit: | Frequency Band | Limit | | | | |
| | 5150-5250MHz | Not exceed 250r | mW(23.98dBm) | | | |
| | 5250-5350MHz | The lesser of 25 | 0mW(23.98dBm) | or 11+ 10logB | | |
| | 5470-5725MHz | The lesser of 25 | 0mW(23.98dBm) | or 11+ 10logB | | |
| | 5725-5850MHz | Not exceed 1W(| (30dBm) | | | |
| | *Where B is the 26dB emission bandwidth in MHz | | | | | |
| Test Results: | Pass | Pass | | | | |
| The detailed test data see: A | ppendix | | | | | |



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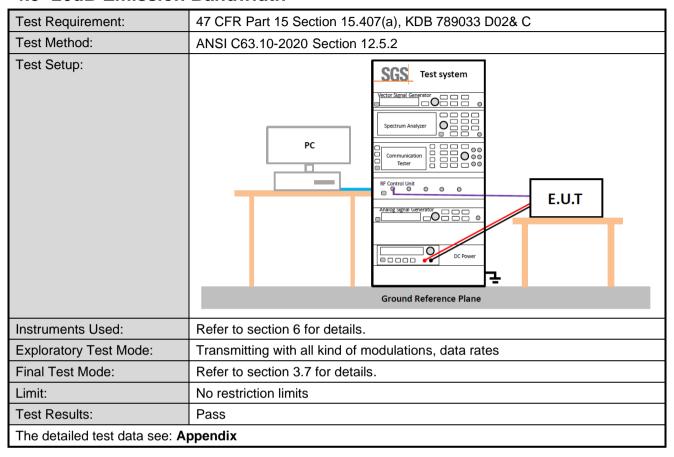


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4.5 26dB Emission Bandwidth





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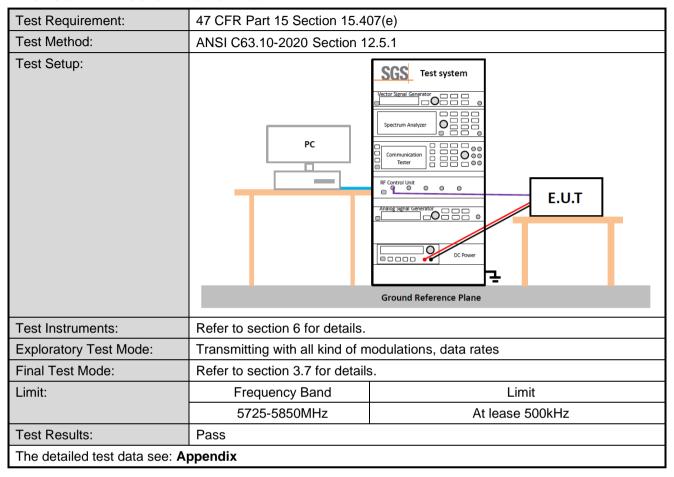


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4.6 6dB Emission Bandwidth





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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: | PC Spectrum Analyzer O O O O O O O O O |
| 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: | Pass |
| The detailed test data see: A | ppendix |



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4.8 Power Spectral Density

| Test Requirement: | 47 CFR Part 15 Sec | tion 15.407(a)(iv) | | | | |
|-------------------------------|-----------------------|--|--|--|--|--|
| Test Method: | | ANSI C63.10-2020 Section 12.6 KDB 789033 D02 v02r01, Section F. | | | | |
| Test Setup: | PC | Test system Vector Signal Generator Spectrum Analyzer Communication Tester FF Control Unit Communication Tester Tester FF Control Unit Communication Tester Tester FF Control Unit Communication Tester Tester | | | | |
| Instruments Used: | Refer to section 6 fo | r 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 11dBm/1MHz | | | | |
| | 5250-5350MHz | The power spectral density less than 11dBm/1MHz | | | | |
| | 5470-5725MHz | The power spectral density less than 11dBm/1MHz | | | | |
| | 5725-5850MHz | The power spectral density less than <30dBm/500KHz | | | | |
| Test Results: | Pass | | | | | |
| The detailed test data see: A | ppendix | | | | | |



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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:

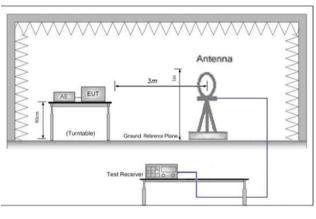
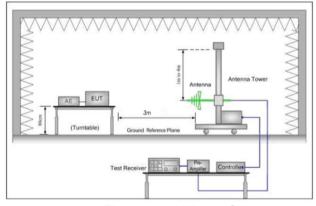


Figure 1. 9kHz to 30MHz



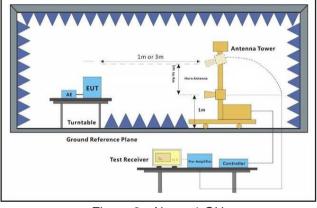


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- a. 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 camber. 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 camber. The table was rotated 360 degrees to determine the position of the highest radiation.
 (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. 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.
- d. 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.



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|----------------------------|--|
| | 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. |
| | f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. |
| | g. Test the EUT in the outermost channels. |
| | h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the Z axis positioning which it is worse case. |
| | i. Repeat above procedures until all frequencies measured was complete. |
| | 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 |
| | 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. |
| | At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB. |
| Test Configuration: | Measurements below 30MHz |
| | • RBW = 10 kHz |
| | • VBW = 30 kHz |
| | Detector = Peak & Average & Quasi-peak |
| | Trace mode = max hold |
| | Measurements Below 1000MHz |
| | • RBW = 120 kHz |
| | • VBW = 300 kHz |
| | Detector = Quasi-peak |
| | Trace mode = max hold |
| | Peak Measurements Above 1000 MHz |
| | • RBW = 1 MHz |
| | • VBW ≥ 3 MHz |
| | Detector = Peak |
| | Sweep time = auto Trace mode = move held |
| | Trace mode = max hold Average Measurements Above 1000MHz |
| | Average Measurements Above 1000MHz • 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 Tis 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. |
| 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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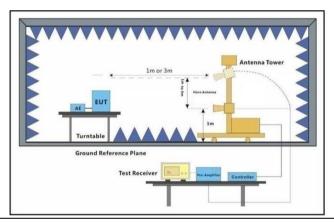
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4.10Restricted bands around fundamental frequency

| 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 | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | | |
| Limit: | Frequency Limit (dBuV/m) Remark | | | | | | |
| | 30MHz-88MHz | 40.0 43.5 | Quasi-peak | | | | |
| | 88MHz-216MHz | | Quasi-peak | | | | |
| | 216MHz-960MHz 46.0 Quasi-peak | | | | | | |
| | 960MHz-1GHz 54.0 Quasi-peak | | | | | | |
| | Above 1GHz | 54.0 | Average Value | | | | |
| | Above IGHZ | 74.0 | Peak Value | | | | |

Test Setup:



Test Procedure:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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
- g. Test the EUT in the outermost channels.
- h. The radiation measurements are performed in X, Y, Z axis positioning for



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| | Transmitting mode, And found the Z axis positioning which it is worse case. | | | | |
|----------------------------|--|--|--|--|--|
| | i. Repeat above procedures until all frequencies measured was complete. | | | | |
| Test Configuration: | Measurements Below 1000MHz | | | | |
| | • RBW = 120 kHz | | | | |
| | • VBW = 300 kHz | | | | |
| | Detector = Quasi-peak | | | | |
| | Trace mode = max hold | | | | |
| | Peak Measurements Above 1000 MHz | | | | |
| | • RBW = 1 MHz | | | | |
| | • VBW ≥ 3 MHz | | | | |
| | Detector = Peak | | | | |
| | Sweep time = auto | | | | |
| | Trace mode = max hold | | | | |
| | Average Measurements Above 1000MHz | | | | |
| | • 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 Tis 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. | | | | |
| 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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4.11 Dynamic Frequency Selection

4.11.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

| Requirement | Operational Mode | | | | |
|---------------------------------|------------------|---|-----------------------------------|--|--|
| | Master | Client Without Radar Detection | Client With Radar Detection | | |
| Non-Occupancy Period | Yes | Not required | Yes | | |
| DFS Detection Threshold | Yes | Not required | Yes | | |
| Channel Availability Check Time | Yes | Not required | Not required | | |
| U-NII Detection Bandwidth | Yes | Not required | Yes | | |

Table 2: Applicability of DFS requirements during normal operation

| Requirement | Operational Mode | | |
|-----------------------------------|--|-----------------------------------|--|
| | Master Device or Client with Radar Detection | Client Without Radar Detection | |
| DFS Detection Threshold | Yes | Not required | |
| Channel Closing Transmission Time | Yes | Yes | |
| Channel Move Time | Yes | Yes | |
| U-NII Detection Bandwidth | Yes | Not required | |

| Additional requirements for devices with | Master Device or Client with | Client Without Radar |
|---|------------------------------|-----------------------|
| multiple bandwidth modes | Radar Detection | Detection |
| U-NII Detection Bandwidth and Statistical | All BW modes must be tested | Not required |
| Performance Check | | |
| Channel Move Time and Channel Closing | Test using widest BW mode | Test using the widest |
| Transmission Time | available | BW mode available for |
| | | the link |
| All other tests | Any single BW mode | Not required |

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.



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4.11.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

| Maximum Transmit Power | Value |
|--|-------------------------|
| | (See Notes 1, 2, and 3) |
| EIRP ≥ 200 milliwatt | -64 dBm |
| EIRP < 200 milliwatt and | -62 dBm |
| power spectral density < 10 dBm/MHz | |
| EIRP < 200 milliwatt that do not meet the power spectral density | -64 dBm |
| requirement | |

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.



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4.11.3 RADAR TEST WAVEFORMS

Table 5 - Short Pulse Radar Test Waveforms

| | | THORE SHOTET UP | | 1.5 | | |
|--|-------------|---|--|---------------|------------|--|
| Radar | Pulse Width | PRI | Number of Pulses | Minimum | Minimum | |
| Type | (µsec) | (µsec) | | Percentage of | Number of | |
| | | | | Successful | Trials | |
| | | | | Detection | | |
| 0 | 1 | 1428 | 18 | See Note 1 | See Note 1 | |
| 1 | 1 | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A | Roundup $ \left\{ $ | 60% | 30 | |
| 2 | 1-5 | 150-230 | 23-29 | 60% | 30 | |
| 3 | 6-10 | 200-500 | 16-18 | 60% | 30 | |
| 4 | 11-20 | 200-500 | 12-16 | 60% | 30 | |
| Aggregate (Radar Types 1-4) 80% 120 | | | | | | |
| Note 1. Chart Pulse Dader Type 0 should be used for the detection bandwidth test, showned move | | | | | | |

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.



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Table 5a - Pulse Repetition Intervals Values for Test A

| Pulse Repetition Frequency Number | Pulse Repetition Frequency (Pulses Per Second) | Pulse Repetition Interval (Microseconds) | |
|---|---|--|--|
| 1 | 1930.5 | 518 | |
| 2 | 1858.7 | 538 | |
| 3 | 1792.1 | 558 | |
| 4 | 1730.1 | 578 | |
| 5 | 1672.2 | 598 | |
| 6 | 1618.1 | 618 | |
| 7 | 1567.4 | 638 | |
| 8 | 1519.8 | 658 | |
| 9 | 1474.9 | 678 | |
| 10 | 1432.7 | 698 | |
| 11 | 1392.8 | 718 | |
| 12 | 1355 | 738 | |
| 13 | 1319.3 | 758 | |
| 14 | 1285.3 | 778 | |
| 15 | 1253.1 | 798 | |
| 16 | 1222.5 | 818 | |
| 17 | 1193.3 | 838 | |
| 18 | 1165.6 | 858 | |
| 19 | 1139 | 878 | |
| 20 | 1113.6 | 898 | |
| 21 | 1089.3 | 918 | |
| 22 | 1066.1 | 938 | |
| 23 | 326.2 | 3066 | |

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

| Radar Type | Number of Trials | Number of Successful | Minimum Percentage | | |
|--|------------------|----------------------|--------------------|--|--|
| | | Detections | of Successful | | |
| | | | Detection | | |
| 1 | 35 | 29 | 82.9% | | |
| 2 | 30 | 18 | 60% | | |
| 3 | 30 | 27 | 90% | | |
| 4 | 50 | 44 | 88% | | |
| Aggregate $(82.9\% + 60\% + 90\% + 88\%)/4 = 80.2\%$ | | | | | |



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Table 6 - Long Pulse Radar Test Waveform

| | 1 | | l | | | | |
|-------|--------|-------|--------|-----------|-----------|---------------|-----------|
| Radar | Pulse | Chirp | PRI | Number | Number | Minimum | Minimum |
| Type | Width | Width | (µsec) | of Pulses | of Bursts | Percentage of | Number of |
| | (µsec) | (MHz) | | per Burst | | Successful | Trials |
| | | | | | | Detection | |
| 5 | 50-100 | 5-20 | 1000- | 1-3 | 8-20 | 80% | 30 |
| | | | 2000 | | | | |

Table 7 – Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width | PRI (µsec) | Pulses | Hopping Rate | Hopping Sequence | Minimum Percentage of | Minimum Number of |
|---------------|----------------|---------------|--------|-----------------|---------------------|--------------------------|----------------------|
| Type | (µsec) | (µsec) | Hop | (kHz) | Length | Successful | Trials |
| | | | | | (msec) | Detection | |
| 6 | 1 | 333 | 9 | 0.333 | 300 | 70% | 30 |

4.11.4 Response Requirements

Table 4: DFS Response Requirement Values

| Parameter | Value |
|-----------------------------------|-----------------------------|
| Non-occupancy period | Minimum 30 minutes |
| Channel Availability Check Time | 60 seconds |
| Channel Move Time | 10 seconds |
| | See Note 1. |
| Channel Closing Transmission Time | 200 milliseconds + an |
| | aggregate of 60 |
| | milliseconds over remaining |
| | 10 second period. |
| | See Notes 1 and 2. |
| U-NII Detection Bandwidth | Minimum 100% of the U- |
| | NII 99% transmission |
| | power bandwidth. See Note |
| | 3. |

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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 | | ± 3.13dB (9k -30MHz) | | |
| | Radiated Emission | ± 4.8dB (30M -1GHz) | | |
| | | ± 4.8dB (1GHz to 18GHz) | | |
| | | ± 4.80dB (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 Manufacture | | 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 | |
| MXG Vector signal genitor | KEYSIGHT | N5182B | SUWI-01-38-01 | 2023/02/06 | 2024/02/05 | |
| 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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| RE Test System | | | | | | |
|--------------------------------|-------------------------------|--|--------------------------|--------------------------|------------------------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date (yyyy/mm/dd) | Cal Due Date (yyyy/mm/dd) | |
| Semi-Anechoic Chamber | Brilliant-emc | Brilliant-emc N/A SUWI-04-02-01 2021/05/08 | | 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 | Ant2 | 5180 | 19.72 | 5170.16 | 5189.88 | |
| 11a | Ant2 | 5220 | 19.72 | 5210.08 | 5229.80 | |
| 11a | Ant2 | 5240 | 19.72 | 5230.08 | 5249.80 | |
| 11a | Ant2 | 5260 | 19.64 | 5250.12 | 5269.76 | |
| 11a | Ant2 | 5300 | 19.92 | 5290.04 | 5309.96 | |
| 11a | Ant2 | 5320 | 19.76 | 5310.12 | 5329.88 | |
| 11a | Ant2 | 5500 | 19.80 | 5490.08 | 5509.88 | |
| 11a | Ant2 | 5580 | 19.76 | 5570.08 | 5589.84 | |
| 11a | Ant2 | 5700 | 19.84 | 5690.12 | 5709.96 | |
| 11a | Ant2 | 5745 | 19.60 | 5735.12 | 5754.72 | |
| 11a | Ant2 | 5785 | 19.84 | 5775.04 | 5794.88 | |
| 11a | Ant2 | 5825 | 19.84 | 5815.00 | 5834.84 | |
| 11ac20SISO | Ant2 | 5180 | 20.56 | 5169.68 | 5190.24 | |
| 11ac20SISO | Ant2 | 5220 | 20.44 | 5209.80 | 5230.24 | |
| 11ac20SISO | Ant2 | 5240 | 20.60 | 5229.64 | 5250.24 | |
| 11ac20SISO | Ant2 | 5260 | 20.52 | 5249.72 | 5270.24 | |
| 11ac20SISO | Ant2 | 5300 | 20.52 | 5289.72 | 5310.24 | |
| 11ac20SISO | Ant2 | 5320 | 20.44 | 5309.76 | 5330.20 | For |
| 11ac20SISO | Ant2 | 5500 | 20.52 | 5489.76 | 5510.28 | Report |
| 11ac20SISO | Ant2 | 5580 | 20.48 | 5569.80 | 5590.28 | Purpose |
| 11ac20SISO | Ant2 | 5700 | 20.40 | 5689.76 | 5710.16 | Fulpose |
| 11ac20SISO | Ant2 | 5785 | 20.44 | 5774.80 | 5795.24 | |
| 11ac20SISO | Ant2 | 5745 | 21.52 | 5734.72 | 5756.24 | |
| 11ac20SISO | Ant2 | 5825 | 20.48 | 5814.76 | 5835.24 | |
| 11ac40SISO | Ant2 | 5190 | 40.64 | 5169.76 | 5210.40 | |
| 11ac40SISO | Ant2 | 5230 | 40.80 | 5209.60 | 5250.40 | |
| 11ac40SISO | Ant2 | 5270 | 40.72 | 5249.44 | 5290.16 | |
| 11ac40SISO | Ant2 | 5310 | 40.96 | 5289.36 | 5330.32 | |
| 11ac40SISO | Ant2 | 5510 | 40.48 | 5489.76 | 5530.24 | |
| 11ac40SISO | Ant2 | 5550 | 40.48 | 5529.76 | 5570.24 | |
| 11ac40SISO | Ant2 | 5670 | 40.72 | 5649.76 | 5690.48 | |
| 11ac40SISO | Ant2 | 5755 | 40.48 | 5734.92 | 5775.40 | |
| 11ac40SISO | Ant2 | 5795 | 40.64 | 5774.60 | 5815.24 | |
| 11ac80SISO | Ant2 | 5210 | 81.76 | 5169.04 | 5250.80 | |
| 11ac80SISO | Ant2 | 5290 | 82.08 | 5248.88 | 5330.96 |] |
| 11ac80SISO | Ant2 | 5530 | 81.60 | 5489.20 | 5570.80 | |
| 11ac80SISO | Ant2 | 5610 | 81.76 | 5569.20 | 5650.96 |] |
| 11ac80SISO | Ant2 | 5775 | 81.44 | 5734.36 | 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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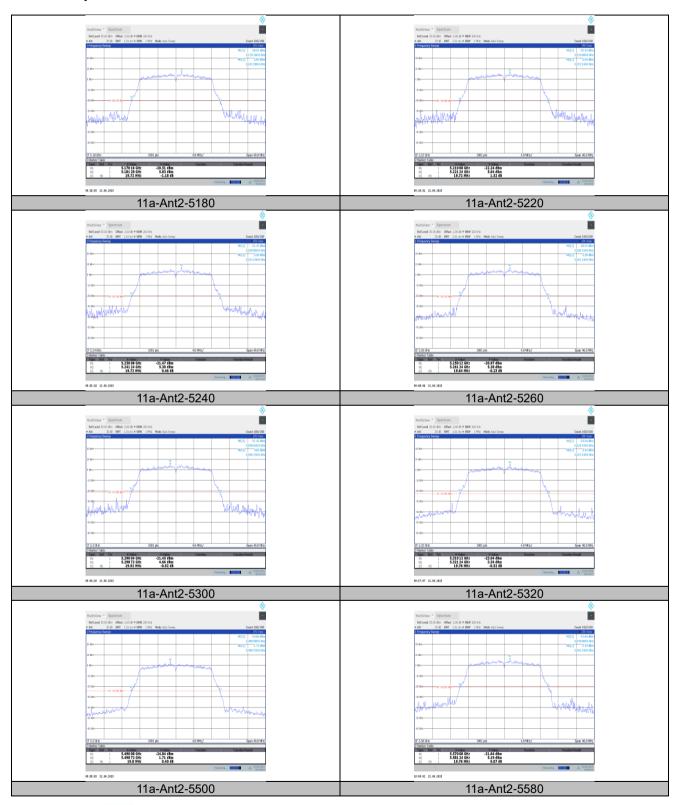


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Test Graphs





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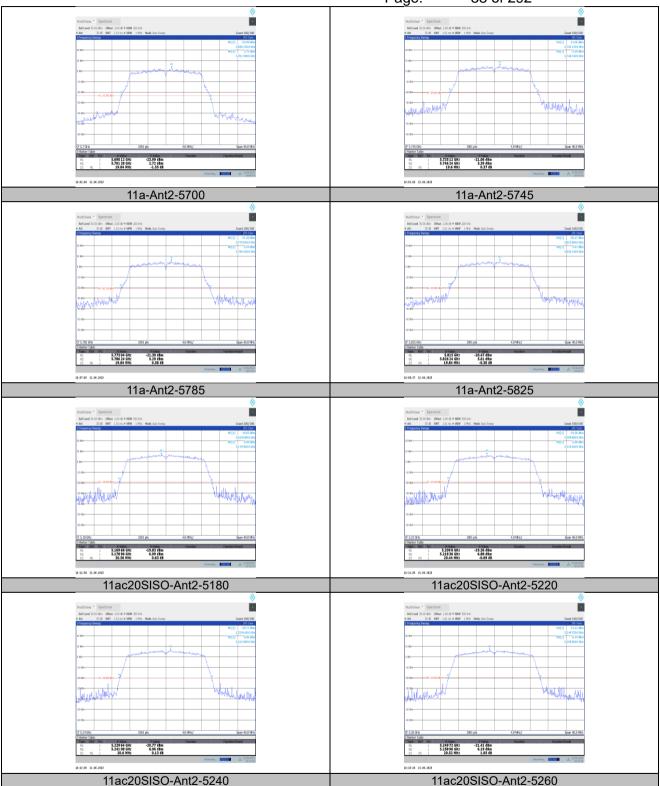
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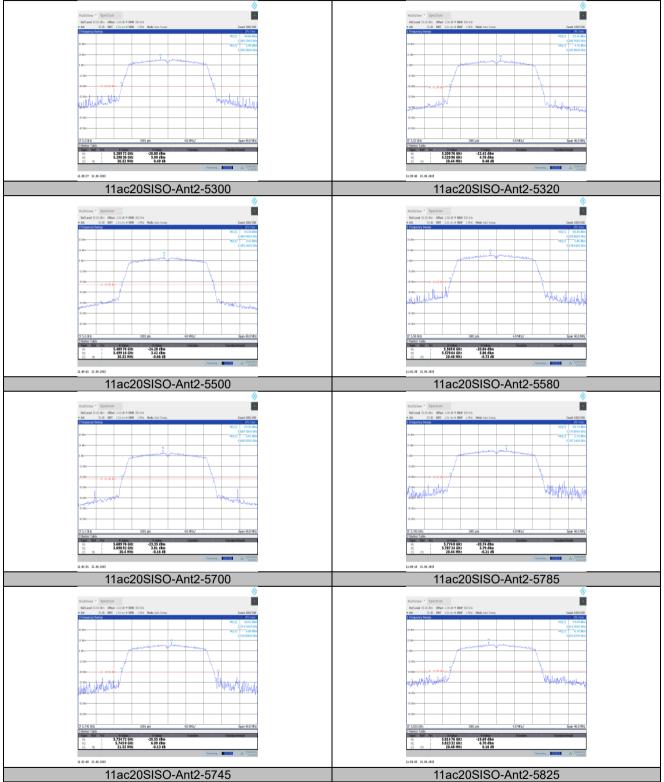
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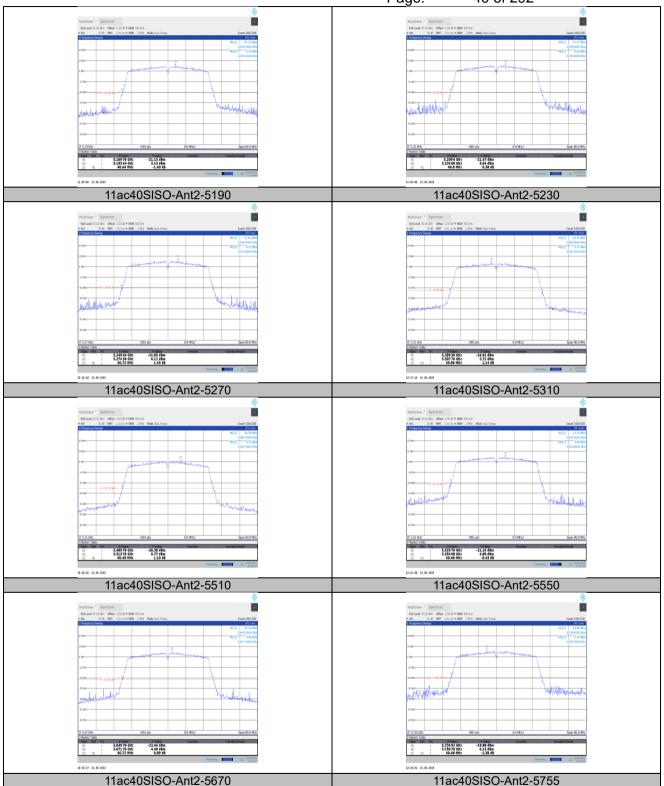
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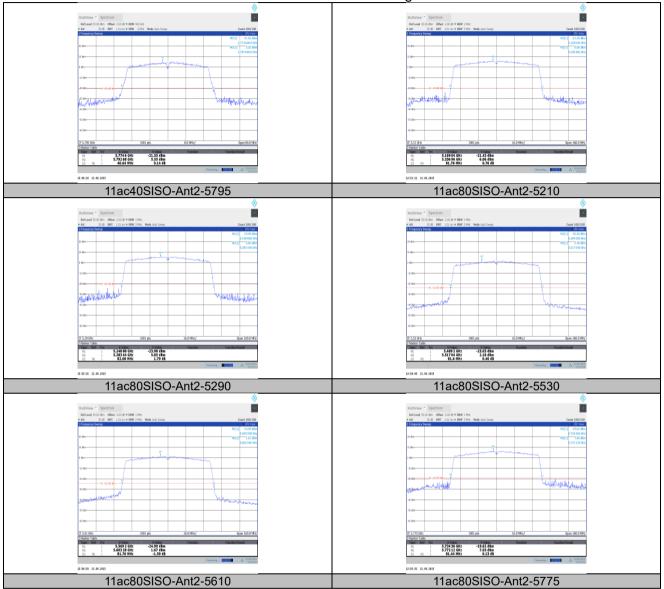
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Occupied channel bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Verdict |
|------------|---------|----------------|-----------|-----------|-----------|---------------|
| 11a | Ant2 | 5180 | 16.969 | 5171.5368 | 5188.5061 | |
| 11a | Ant2 | 5220 | 16.979 | 5211.5047 | 5228.4841 | |
| 11a | Ant2 | 5240 | 17.001 | 5231.5022 | 5248.5033 | |
| 11a | Ant2 | 5260 | 16.991 | 5251.4871 | 5268.4778 | |
| 11a | Ant2 | 5300 | 16.987 | 5291.4367 | 5308.4235 | |
| 11a | Ant2 | 5320 | 16.912 | 5311.5581 | 5328.4706 | |
| 11a | Ant2 | 5500 | 16.949 | 5491.5324 | 5508.4818 | |
| 11a | Ant2 | 5580 | 16.958 | 5571.5179 | 5588.4756 | |
| 11a | Ant2 | 5700 | 16.92 | 5691.4976 | 5708.4179 | |
| 11a | Ant2 | 5745 | 17.032 | 5736.5134 | 5753.5451 | |
| 11a | Ant2 | 5785 | 17.101 | 5776.4223 | 5793.5234 | |
| 11a | Ant2 | 5825 | 16.983 | 5816.4920 | 5833.4746 | |
| 11ac20SISO | Ant2 | 5180 | 17.88 | 5171.0336 | 5188.9139 | |
| 11ac20SISO | Ant2 | 5220 | 17.928 | 5211.0128 | 5228.9412 | |
| 11ac20SISO | Ant2 | 5240 | 17.947 | 5231.0353 | 5248.9824 | |
| 11ac20SISO | Ant2 | 5260 | 17.907 | 5251.0374 | 5268.9448 | |
| 11ac20SISO | Ant2 | 5300 | 17.88 | 5291.0288 | 5308.9090 | |
| 11ac20SISO | Ant2 | 5320 | 17.894 | 5311.0722 | 5328.9664 | - |
| 11ac20SISO | Ant2 | 5500 | 17.842 | 5491.0645 | 5508.9061 | For Report |
| 11ac20SISO | Ant2 | 5580 | 17.913 | 5571.0333 | 5588.9465 | Purpose |
| 11ac20SISO | Ant2 | 5700 | 17.954 | 5690.9905 | 5708.9448 | Fulpose |
| 11ac20SISO | Ant2 | 5745 | 17.896 | 5736.0441 | 5753.9404 | |
| 11ac20SISO | Ant2 | 5785 | 17.909 | 5776.0782 | 5793.9875 | |
| 11ac20SISO | Ant2 | 5825 | 17.895 | 5816.0479 | 5833.9433 | |
| 11ac40SISO | Ant2 | 5190 | 36.22 | 5171.9161 | 5208.1364 | |
| 11ac40SISO | Ant2 | 5230 | 36.247 | 5211.9286 | 5248.1752 | |
| 11ac40SISO | Ant2 | 5270 | 36.178 | 5251.9012 | 5288.0790 | |
| 11ac40SISO | Ant2 | 5310 | 36.279 | 5291.8215 | 5328.1006 | |
| 11ac40SISO | Ant2 | 5510 | 36.247 | 5491.9018 | 5528.1485 | |
| 11ac40SISO | Ant2 | 5550 | 36.308 | 5531.9116 | 5568.2198 | |
| 11ac40SISO | Ant2 | 5670 | 36.199 | 5651.9945 | 5688.1937 | |
| 11ac40SISO | Ant2 | 5755 | 36.296 | 5736.9242 | 5773.2202 | |
| 11ac40SISO | Ant2 | 5795 | 36.237 | 5776.9413 | 5813.1787 | |
| 11ac80SISO | Ant2 | 5210 | 75.355 | 5172.3647 | 5247.7201 | |
| 11ac80SISO | Ant2 | 5290 | 75.346 | 5252.3131 | 5327.6587 | |
| 11ac80SISO | Ant2 | 5530 | 75.294 | 5492.4301 | 5567.7243 | |
| 11ac80SISO | Ant2 | 5610 | 75.369 | 5572.2821 | 5647.6511 | |
| 11ac80SISO | Ant2 | 5775 | 75.46 | 5737.4283 | 5812.8883 | |

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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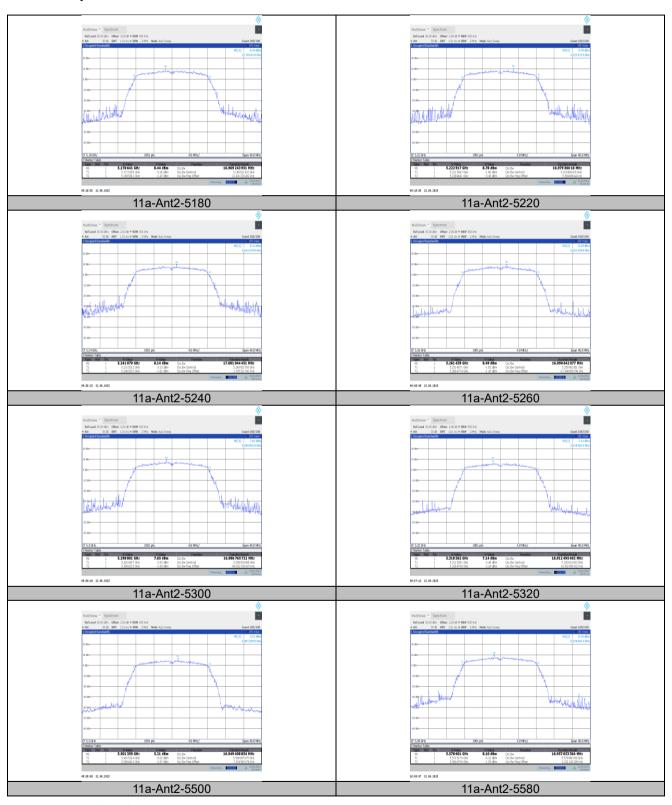


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Test Graphs





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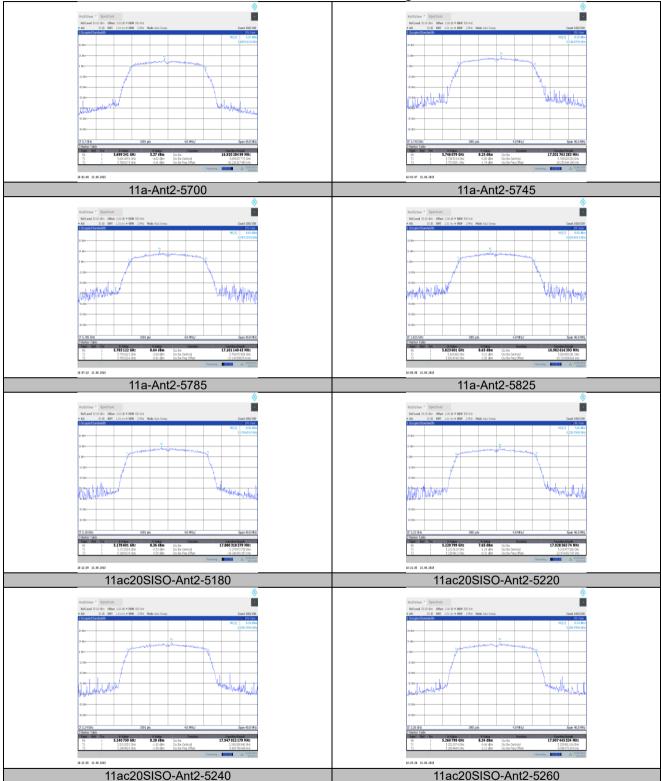
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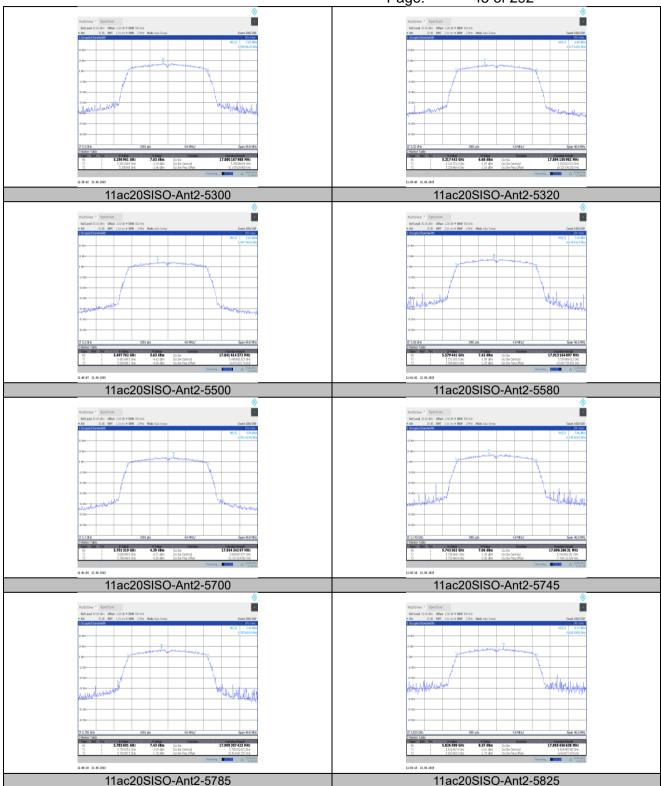
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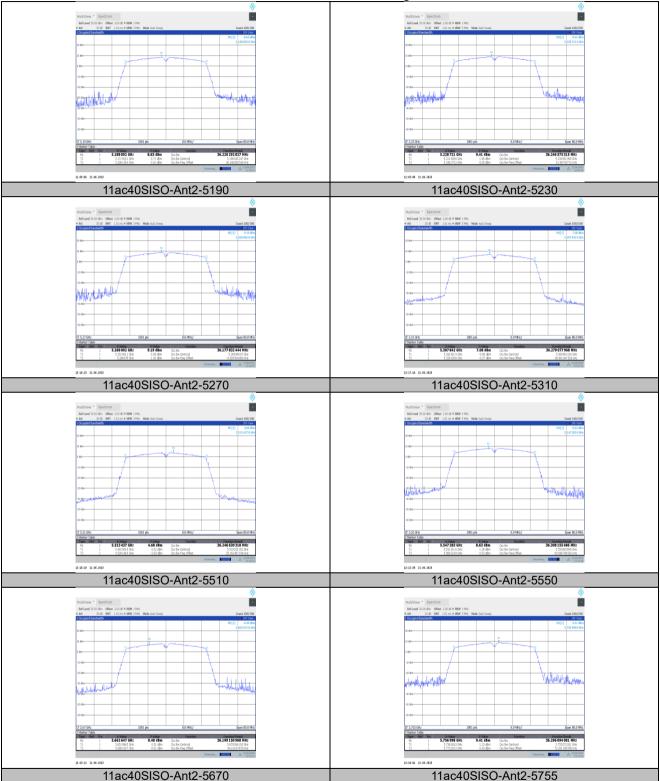
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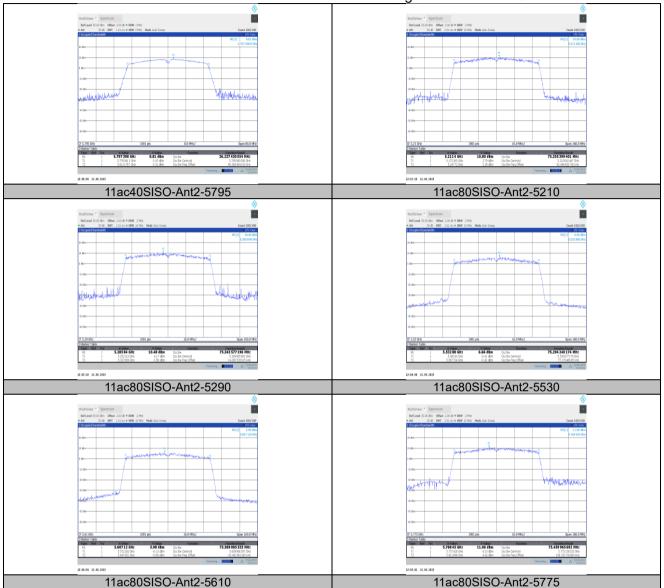
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6dB emission bandwidth

Test Result B4

| TestMode | Antenna | Frequency[MHz] | 6dB EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|----------------|------------------|---------|---------|------------|---------|
| 11a | Ant2 | 5745 | 14.12 | 5738.04 | 5752.16 | ≥0.5 | PASS |
| 11a | Ant2 | 5785 | 16.36 | 5776.80 | 5793.16 | ≥0.5 | PASS |
| 11a | Ant2 | 5825 | 14.76 | 5817.40 | 5832.16 | ≥0.5 | PASS |
| 11ac20SISO | Ant2 | 5745 | 13.96 | 5738.64 | 5752.60 | ≥0.5 | PASS |
| 11ac20SISO | Ant2 | 5785 | 15.20 | 5777.36 | 5792.56 | ≥0.5 | PASS |
| 11ac20SISO | Ant2 | 5825 | 13.52 | 5818.04 | 5831.56 | ≥0.5 | PASS |
| 11ac40SISO | Ant2 | 5755 | 35.28 | 5737.32 | 5772.60 | ≥0.5 | PASS |
| 11ac40SISO | Ant2 | 5795 | 31.52 | 5778.60 | 5810.12 | ≥0.5 | PASS |
| 11ac80SISO | Ant2 | 5775 | 75.52 | 5737.24 | 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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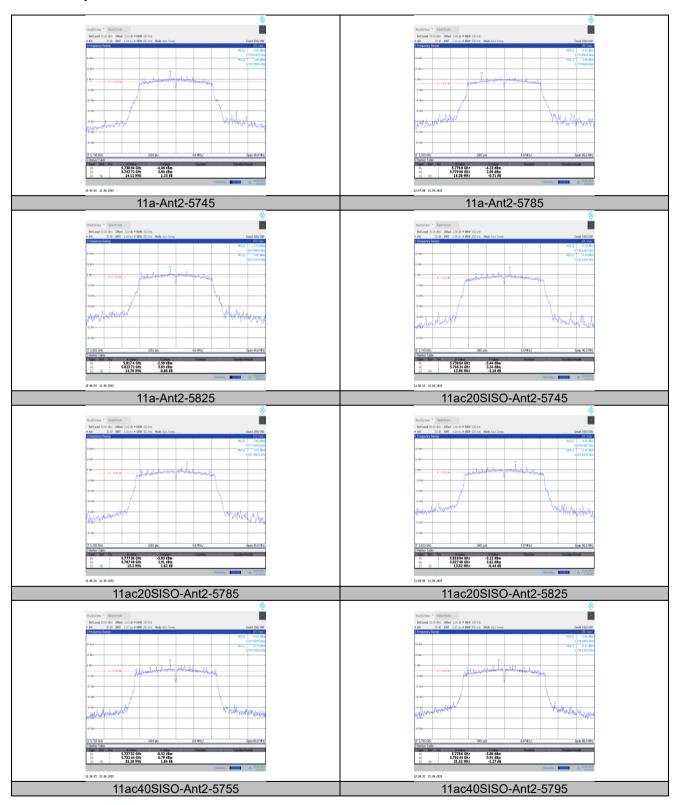


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Test Graphs B4





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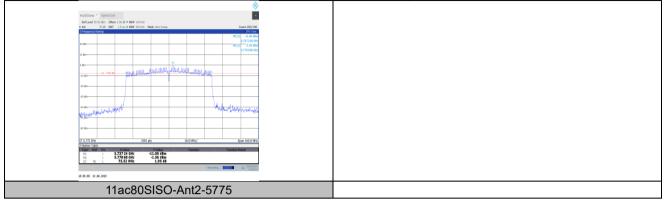
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Duty Cycle

Test Result

| TestMode | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|------------|---------|----------------|-------------------------------|--------------------------|----------------|
| 11a | Ant2 | 5180 | 1.39 | 1.44 | 96.53 |
| 11n20SISO | Ant2 | 5180 | 1.30 | 1.35 | 96.30 |
| 11n40SISO | Ant2 | 5190 | 0.64 | 0.69 | 92.75 |
| 11ac20SISO | Ant2 | 5180 | 1.31 | 1.36 | 96.32 |
| 11ac40SISO | Ant2 | 5190 | 0.65 | 0.70 | 92.86 |
| 11ac80SISO | Ant2 | 5210 | 0.32 | 0.37 | 86.49 |

Note:

Radiated Emission Average VBW = 1 / T

| TestMode | T[ms] | Period[ms] | Duty Cycle[%] | 1/T[kHz] | VBW Setting |
|------------|-------|------------|---------------|----------|-------------|
| 11a | 1.39 | 1.44 | 96.53 | 0.71942 | 0.75KHz |
| 11ac20SISO | 1.31 | 1.36 | 96.32 | 0.76336 | 0.82KHz |
| 11ac40SISO | 0.65 | 0.70 | 92.86 | 1.53846 | 1.6KHz |
| 11ac80SISO | 0.32 | 0.37 | 86.49 | 3.12500 | 3.3KHz |



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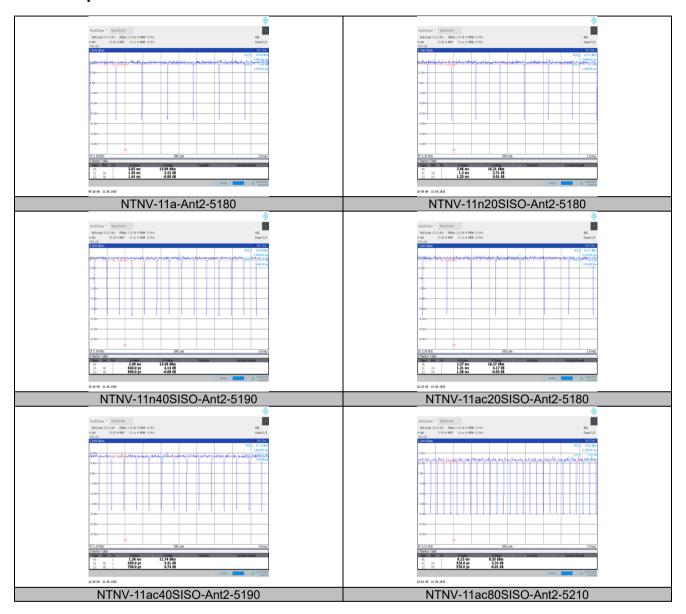


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Test Graphs





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Maximum conducted output power

Test Result Channel Power

| TestMode | Antenna | Frequency[MHz] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|--------------|-------------|---------|
| 11a | Ant2 | 5180 | 14.01 | ≤23.98 | PASS |
| 11a | Ant2 | 5220 | 13.78 | ≤23.98 | PASS |
| 11a | Ant2 | 5240 | 13.71 | ≤23.98 | PASS |
| 11a | Ant2 | 5260 | 13.75 | ≤23.93 | PASS |
| 11a | Ant2 | 5300 | 13.65 | ≤23.98 | PASS |
| 11a | Ant2 | 5320 | 13.71 | ≤23.96 | PASS |
| 11a | Ant2 | 5500 | 12.26 | ≤23.97 | PASS |
| 11a | Ant2 | 5580 | 13.79 | ≤23.96 | PASS |
| 11a | Ant2 | 5700 | 11.56 | ≤23.98 | PASS |
| 11a | Ant2 | 5745 | 13.39 | ≤30.00 | PASS |
| 11a | Ant2 | 5785 | 13.56 | ≤30.00 | PASS |
| 11a | Ant2 | 5825 | 13.87 | ≤30.00 | PASS |
| 11n20SISO | Ant2 | 5180 | 13.79 | ≤23.98 | PASS |
| 11n20SISO | Ant2 | 5220 | 13.64 | ≤23.98 | PASS |
| 11n20SISO | Ant2 | 5240 | 13.74 | ≤23.98 | PASS |
| 11n20SISO | Ant2 | 5260 | 13.71 | ≤23.98 | PASS |
| 11n20SISO | Ant2 | 5300 | 13.53 | ≤23.98 | PASS |
| 11n20SISO | Ant2 | 5320 | 13.71 | ≤23.98 | PASS |
| 11n20SISO | Ant2 | 5500 | 12.26 | ≤23.98 | PASS |
| 11n20SISO | Ant2 | 5580 | 13.71 | ≤23.98 | PASS |
| 11n20SISO | Ant2 | 5700 | 11.68 | ≤23.98 | PASS |
| 11n20SISO | Ant2 | 5745 | 13.48 | ≤30.00 | PASS |
| 11n20SISO | Ant2 | 5785 | 13.71 | ≤30.00 | PASS |
| 11n20SISO | Ant2 | 5825 | 13.87 | ≤30.00 | PASS |
| 11n40SISO | Ant2 | 5190 | 13.82 | ≤23.98 | PASS |
| 11n40SISO | Ant2 | 5230 | 13.74 | ≤23.98 | PASS |
| 11n40SISO | Ant2 | 5270 | 13.81 | ≤23.98 | PASS |
| 11n40SISO | Ant2 | 5310 | 12.69 | ≤23.98 | PASS |
| 11n40SISO | Ant2 | 5510 | 9.69 | ≤23.98 | PASS |
| 11n40SISO | Ant2 | 5550 | 13.73 | ≤23.98 | PASS |
| 11n40SISO | Ant2 | 5670 | 13.06 | ≤23.98 | PASS |
| 11n40SISO | Ant2 | 5755 | 13.63 | ≤30.00 | PASS |
| 11n40SISO | Ant2 | 5795 | 13.74 | ≤30.00 | PASS |
| 11ac20SISO | Ant2 | 5180 | 13.81 | ≤23.98 | PASS |
| 11ac20SISO | Ant2 | 5220 | 13.72 | ≤23.98 | PASS |
| 11ac20SISO | Ant2 | 5240 | 13.76 | ≤23.98 | PASS |
| 11ac20SISO | Ant2 | 5260 | 13.73 | ≤23.98 | PASS |
| 11ac20SISO | Ant2 | 5300 | 13.61 | ≤23.98 | PASS |
| 11ac20SISO | Ant2 | 5320 | 13.72 | ≤23.98 | PASS |
| 11ac20SISO | Ant2 | 5500 | 12.32 | ≤23.98 | PASS |
| 11ac20SISO | Ant2 | 5580 | 13.74 | ≤23.98 | PASS |
| 11ac20SISO | Ant2 | 5700 | 11.71 | ≤23.98 | PASS |
| 11ac20SISO | Ant2 | 5745 | 13.52 | ≤30.00 | PASS |
| 11ac20SISO | Ant2 | 5785 | 13.76 | ≤30.00 | PASS |
| 11ac20SISO | Ant2 | 5825 | 13.91 | ≤30.00 | PASS |
| 11ac40SISO | Ant2 | 5190 | 13.87 | ≤23.98 | PASS |
| 11ac40SISO | Ant2 | 5230 | 13.77 | ≤23.98 | PASS |
| 11ac40SISO | Ant2 | 5270 | 13.83 | ≤23.98 | PASS |
| 11ac40SISO | Ant2 | 5310 | 12.74 | ≤23.98 | PASS |
| 11ac40SISO | Ant2 | 5510 | 9.71 | ≤23.98 | PASS |



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| 11ac40SISO | Ant2 | 5550 | 13.79 | ≤23.98 | PASS |
|------------|------|------|-------|--------|------|
| 11ac40SISO | Ant2 | 5670 | 13.11 | ≤23.98 | PASS |
| 11ac40SISO | Ant2 | 5755 | 13.69 | ≤30.00 | PASS |
| 11ac40SISO | Ant2 | 5795 | 13.81 | ≤30.00 | PASS |
| 11ac80SISO | Ant2 | 5210 | 13.91 | ≤23.98 | PASS |
| 11ac80SISO | Ant2 | 5290 | 13.87 | ≤23.98 | PASS |
| 11ac80SISO | Ant2 | 5530 | 9.98 | ≤23.98 | PASS |
| 11ac80SISO | Ant2 | 5610 | 9.79 | ≤23.98 | PASS |
| 11ac80SISO | Ant2 | 5775 | 13.68 | ≤30.00 | PASS |



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Maximum power spectral density

Test Result

| TestMode | Antenna | Frequency[MHz] | Result | Limit | Verdict |
|------------|---------|----------------|--------|--------|---------|
| 11a | Ant2 | 5180 | 4.46 | ≤11.00 | PASS |
| 11a | Ant2 | 5220 | 4.58 | ≤11.00 | PASS |
| 11a | Ant2 | 5240 | 4.15 | ≤11.00 | PASS |
| 11a | Ant2 | 5260 | 4.06 | ≤11.00 | PASS |
| 11a | Ant2 | 5300 | 3.54 | ≤11.00 | PASS |
| 11a | Ant2 | 5320 | 2.3 | ≤11.00 | PASS |
| 11a | Ant2 | 5500 | 1.29 | ≤11.00 | PASS |
| 11a | Ant2 | 5580 | 4.03 | ≤11.00 | PASS |
| 11a | Ant2 | 5700 | 1.55 | ≤11.00 | PASS |
| 11a | Ant2 | 5745 | 1.42 | ≤30.00 | PASS |
| 11a | Ant2 | 5785 | 1.42 | ≤30.00 | PASS |
| 11a | Ant2 | 5825 | 1.65 | ≤30.00 | PASS |
| 11ac20SISO | Ant2 | 5180 | 4.5 | ≤11.00 | PASS |
| 11ac20SISO | Ant2 | 5220 | 4.08 | ≤11.00 | PASS |
| 11ac20SISO | Ant2 | 5240 | 4.16 | ≤11.00 | PASS |
| 11ac20SISO | Ant2 | 5260 | 4.11 | ≤11.00 | PASS |
| 11ac20SISO | Ant2 | 5300 | 3.59 | ≤11.00 | PASS |
| 11ac20SISO | Ant2 | 5320 | 2.51 | ≤11.00 | PASS |
| 11ac20SISO | Ant2 | 5500 | 1.16 | ≤11.00 | PASS |
| 11ac20SISO | Ant2 | 5580 | 3.84 | ≤11.00 | PASS |
| 11ac20SISO | Ant2 | 5700 | 0.63 | ≤11.00 | PASS |
| 11ac20SISO | Ant2 | 5745 | 1.07 | ≤30.00 | PASS |
| 11ac20SISO | Ant2 | 5785 | 0.63 | ≤30.00 | PASS |
| 11ac20SISO | Ant2 | 5825 | 1.59 | ≤30.00 | PASS |
| 11ac40SISO | Ant2 | 5190 | 0.74 | ≤11.00 | PASS |
| 11ac40SISO | Ant2 | 5230 | 1.08 | ≤11.00 | PASS |
| 11ac40SISO | Ant2 | 5270 | 0.86 | ≤11.00 | PASS |
| 11ac40SISO | Ant2 | 5310 | -1.06 | ≤11.00 | PASS |
| 11ac40SISO | Ant2 | 5510 | -3.82 | ≤11.00 | PASS |
| 11ac40SISO | Ant2 | 5550 | 0.32 | ≤11.00 | PASS |
| 11ac40SISO | Ant2 | 5670 | -0.05 | ≤11.00 | PASS |
| 11ac40SISO | Ant2 | 5755 | -1.67 | ≤30.00 | PASS |
| 11ac40SISO | Ant2 | 5795 | -2.08 | ≤30.00 | PASS |
| 11ac80SISO | Ant2 | 5210 | -2.45 | ≤11.00 | PASS |
| 11ac80SISO | Ant2 | 5290 | -2.61 | ≤11.00 | PASS |
| 11ac80SISO | Ant2 | 5530 | -6.95 | ≤11.00 | PASS |
| 11ac80SISO | Ant2 | 5610 | -6.89 | ≤11.00 | PASS |
| 11ac80SISO | Ant2 | 5775 | -4.61 | ≤30.00 | PASS |

Note:

- 1.The Result and Limit Unit is dBm/1MHz in the band 5.150-5250 GHz,5250-5350GHz, 5470-5725GHz.
- 2. The Result and Limit Unit is dBm/500 kHz in the band 5.725-5.85 GHz.
- 3. The Duty Cycle Factor and RBW Factor is compensated in the graph.

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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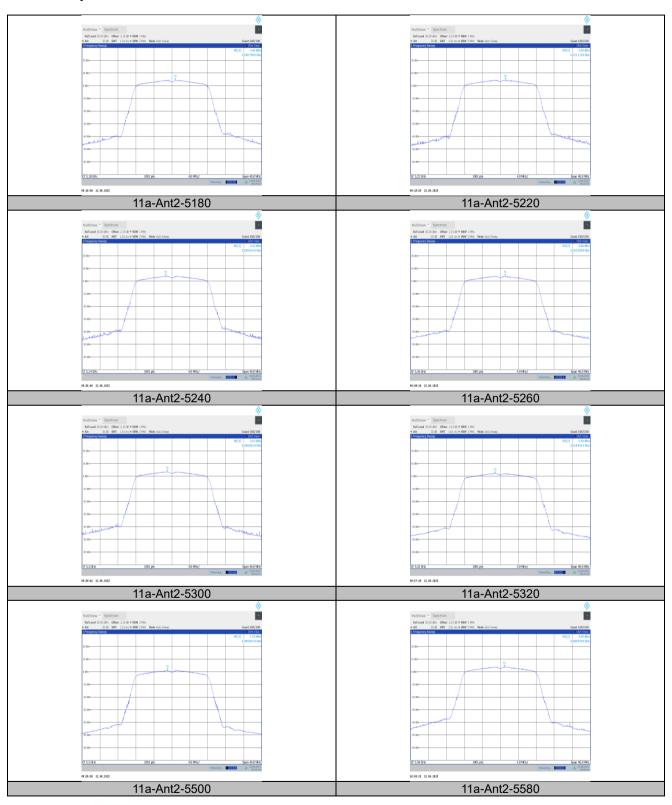


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Test Graphs





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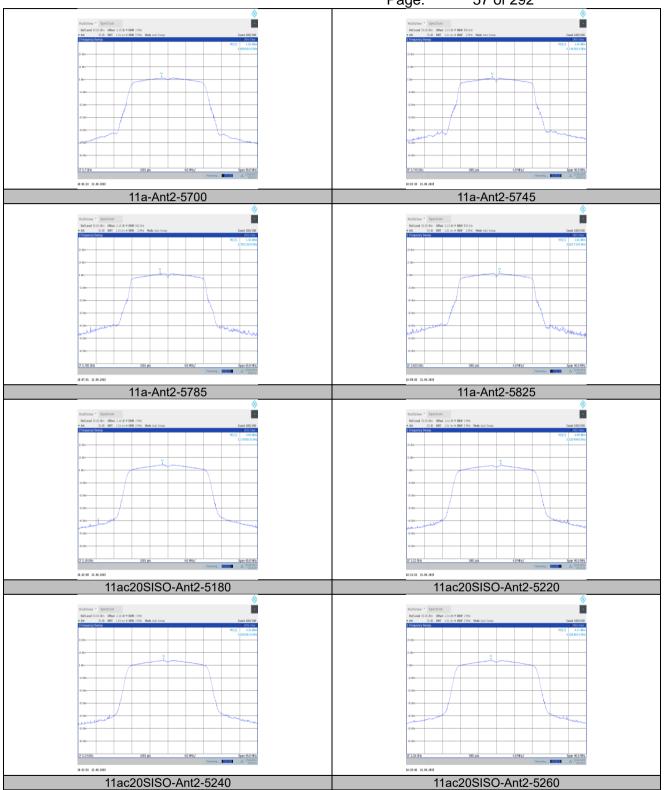
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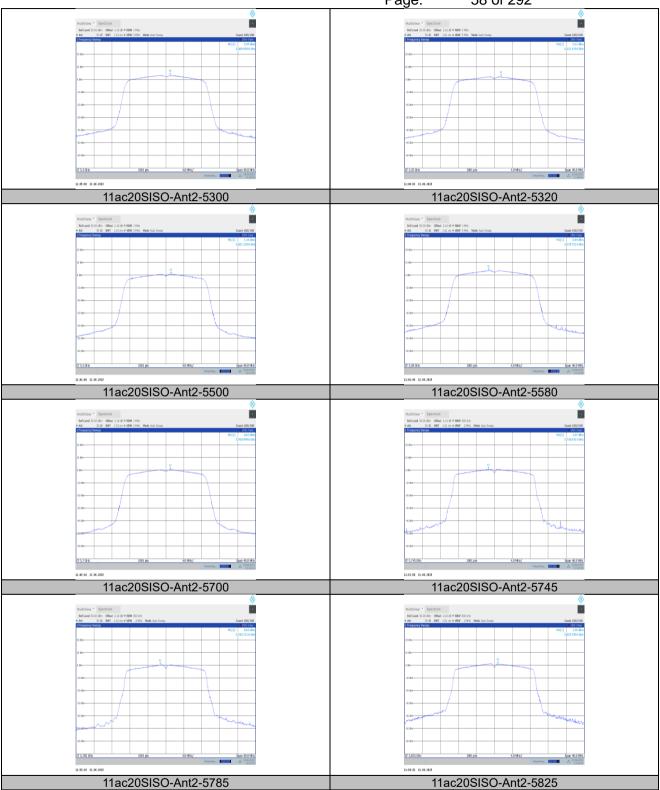
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