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 SEWM2311000466RG06

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 01

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TEST REPORT

| Test Result : | PASS * |
|--------------------------|--|
| Date of Issue: | 2024/01/26 |
| Date of Test: | 2023/12/29 to 2024/01/22 |
| Date of Receipt: | 2023/11/17 |
| Standards: | FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E |
| FCC ID: | 2A28USN339D |
| Model No.: | SN339D |
| EUT Description: | Smart Phone |
| Address of Manufacturer: | UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL |
| Manufacturer: | COOSEA GROUP (HK) COMPANY LIMITED |
| Address of Applicant: | UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL |
| Applicant: | COOSEA GROUP (HK) COMPANY LIMITED |
| Application No.: | SEWM2311000466RG |

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

Authorized Signature:

veli

Well Wei Wireless Laboratory Manager



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1 Version

| | | Revision Record | | |
|---------|---------|------------------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2024/01/26 | | Original |

| Prepared By | (Ives Cheng) / Test Engineer |
|-------------|------------------------------|
| Checked By | Store Gu) / Reviewer |



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| 2 Test S | ummary | / | | | |
|-----------------------------------|--|------------------------------|---|--------------------|------------------------------|
| Test Item | Band ^[1] | FCC rules No. | Test Requirements | Test Resul t | Result |
| Antenna Requirement | | 15.203/15.407 (a) | | Clause 4.1 | PASS |
| 26dB Emission Bandwidth | Band I Band II-A | 15.407(a)(1) 15.407(a)(2) | No limit. | Clause 4.5 | For Report Purpos |
| 6dB Emission | Band II-C | 15.407(a)(2) | | Clause | e |
| Bandwidth | Band III | 15.407(e) | ≥ 500 kHz. | 4.6 | PASS |
| | Band I | | | | For |
| 99% Occupied | Band II-A | KDB 789033 | No limit. | Clause | Report |
| Bandwidth | Band II-C | D02§ D | | 4.7 | Purpos |
| | Band III | | | | е |
| Duty Cycle | Band I Band II-A Band II-C Band III | | No limit. | Clause 4.3 | For Report Purpos e |
| | Band I | 15.407(a)(iv) | < 250mW | | |
| Maximum Conducted | 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 Power | Band III | | | | |
| | Band I | 15.407(a)(iv) | <11dBm/MHz | | |
| Maximum | Band II-A | | | Clause | |
| Power Spectral | Band II-C | 15.407(a)(2) | <11dBm/MHz | 4.8 | PASS |
| Density | 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) | | PASS |

Tost Summary 2



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| | | | 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). | | |
| Restricted bands around fundamental frequency | Band I Band II-A Band II-C Band III | 15.407(b) 15.205/15.209 | 915.209 IIIIIt (AV&PK). | Clause 4.10 | PASS |
| AC Power Line Conducted Emissions | Band I Band II-A Band II-C Band III | 15.207 | | Clause 4.2 | PASS |
| Dynamic Frequency Selection | Band II-A Band II-C | 15.407 | Channel Move Time:10 Seconds | Clause 4.11 | PASS |
| Frequency Stability | Band I Band II-A Band II-C 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 |
| Note 1: Band I: 5150-525 Band II-A: 5250-5 Band II-C: 5470-5 Band III: 5725-58 | 5350MHz 5725MHz | | | | |



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3 General Information

3.1 Details of Client

| Applicant: | COOSEA GROUP (HK) COMPANY LIMITED |
|--------------------------|--|
| Address of Applicant: | UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL |
| Manufacturer: | COOSEA GROUP (HK) COMPANY LIMITED |
| Address of Manufacturer: | UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL |

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, Tizzy Song | |

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 EOT | | | |
|----------------------------|--|---|-------------------------------|------------------------------------|
| EUT Description: | Smart Phone | | | |
| Model No.: | SN339D | | | |
| Hardware Version: | 1.0 | | | |
| Software Version: | SN339DD1 | 0010 | | |
| Power Supply: | 5V | | | |
| IMEI: | RF Conduc | ted | | 356704760004991 356704760004901 |
| | RSE & AC | oower line | 35670 | 4760004769 |
| | 802.11a: | 20 MHz chann | el band | width |
| WLAN Mode Supported: | 802.11n: | 20 MHz / 40 M | IHz char | nnel bandwidth |
| | 802.11ac: | 20 MHz / 40 M | IHz / 80 | MHz channel bandwidth |
| Operation Frequency: | 5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz | | | |
| | 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(HT2 | 20)/ac(V | 'HT20) |
| Channel Spacing: | 40MHz: | 802.11n(HT40)/ac(VHT40) | | |
| | 80MHz: | 802.11ac(VHT | 80) | |
| Antenna Type: | External | , 🛛 Integrated | | |
| Antenna Gain: | 5150MHz to 5250MHz: 0.79dBi(Ant5); 5250MHz to 5350MHz: 1.56dBi(Ant5); 5470MHz to 5725MHz: 2.12dBi(Ant5); 5725MHz to 5850MHz: 1.11dBi(Ant5); Note: The antenna gain are derived from the gain information report provided by the | | | |
| | manufactur | er. | | |
| | SISO 🛛 | 802.11a/n/a | - | |
| | | | 11a/n/ac: Tx & Rx | |
| Smart System: | | STBC: 802. | | |
| TXBF: 802.11n/ac: Tx & Rx | | | IX & KX | |
| TPC Function: | | Diversity 802.11a: Tx & Rx | | |
| | Support, Not Support | | | |
| DFS Function: | | | Slave without radar detection | |
| Slave with radar detection | | | | |

3.4 General Description of EUT



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RF Cable:

Remark:

2dB

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.

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 802.11n/ac 40MHz | The Lowest channel | 5190 |
| | The Highest channel | 5230 |
| IEEE 802.11ac 80MHz | The Middle channel | 5210 |

| For UNII Band II-A: | | | | |
|-------------------------|---------------------|----------------|--|--|
| Mode | Channel | Frequency(MHz) | | |
| | The Lowest channel | 5260 | | |
| IEEE 802.11a/n/ac 20MHz | The Middle channel | 5280 | | |
| | The Highest channel | 5320 | | |
| | 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 | | | | |
| 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 kPa Selected Values During Tests 44-46 % RH Ambient | | | | |
|---|--|------------|--|--|--|
| Relative Humidity | | | | | |
| Value | Temperature(℃) | Voltage(V) | | | |
| NTNV | 22~23 | 3.8 | | | |
| Remark: NV: Normal Voltage NT: Normal Temperature | | | | | |

3.6 Description of Support Units

| Test Equipment | Manufacturer | Model No. | Inventory No. | |
|--|---------------------------------|--------------------------------------|---------------|--|
| Router | ASUS | GT-AXE11000 (FCC ID:MSQ-RTAXJF00) | SUWI-03-14-02 | |
| Power Adapter* ShenZhen Baijunda Electronic Co.,Ltd | | UT-681A-5200A1Y | N/A | |
| *Remark: The information o | f table are provided by client. | | | |

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 Integrated Ar | The antenna is Integrated Antenna and no consideration of replacement. | | | | | |
| The best case gain of the an | tenna is | | | | | |
| 5150MHz to 5250MHz: 0.790 | dBi(Ant5);* | | | | | |
| 5250MHz to 5350MHz: 1.560 | dBi(Ant5);* | | | | | |
| 5470MHz to 5725MHz: 2.120 | dBi(Ant5);* | | | | | |
| 5725MHz to 5850MHz: 1.110 | 5725MHz to 5850MHz: 1.11dBi(Ant5);* | | | | | |
| *Note: | | | | | | |
| The antenna gain are derived from the gain information report provided by the manufacturer. Remark: | | | | | | |
| As above information is prov reliability or/and integrity of th | ided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, he information. | | | | | |



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| Test Requirement: | 47 CFR Part 15 Section 15.207 | | | |
|-----------------------|---|--------------------------|-----------|--|
| Test Method: | ANSI C63.10: 2013 Section 6.2 | | | |
| Test Frequency Range: | 150kHz to 30MHz | | | |
| Receiver Setup: | RBW = 9kHz, $VBW = 30kHz$ | | | |
| Limit: | | Limit (d | BuV) | |
| | 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: | 5-30 b0 50 50 50 50 50 50 50 50 50 50 50 50 50 | | | |

4.2 AC Power Line Conducted Emissions

SG



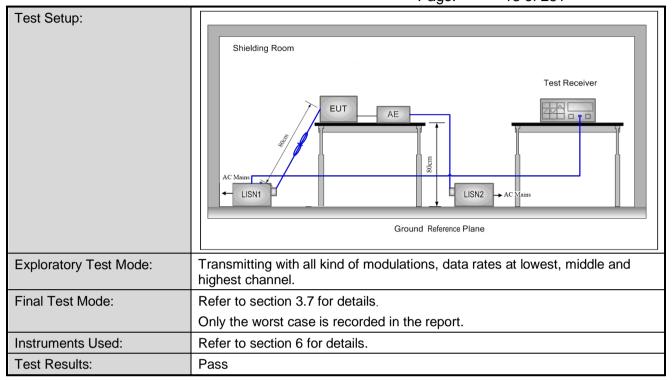
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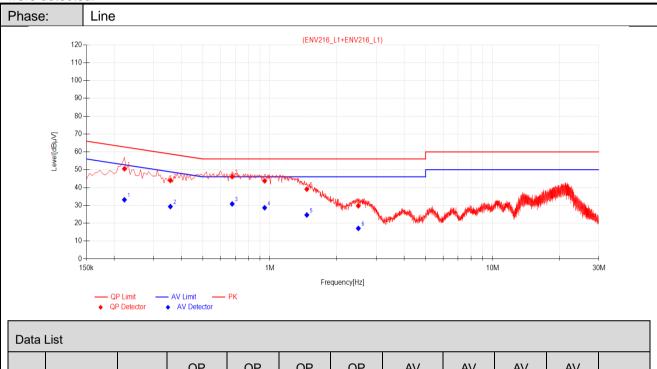
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Measurement Data

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.



| 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 | 0.2220 | 11.77 | 38.72 | 50.49 | 62.74 | 12.25 | 21.37 | 33.14 | 52.74 | 19.60 | PASS |
| 2 | 0.3570 | 11.54 | 32.41 | 43.95 | 58.80 | 14.85 | 17.78 | 29.32 | 48.80 | 19.48 | PASS |
| 3 | 0.6765 | 11.48 | 34.61 | 46.09 | 56.00 | 9.91 | 19.33 | 30.81 | 46.00 | 15.19 | PASS |
| 4 | 0.9465 | 11.48 | 32.25 | 43.73 | 56.00 | 12.27 | 17.18 | 28.66 | 46.00 | 17.34 | PASS |
| 5 | 1.4640 | 11.52 | 27.56 | 39.08 | 56.00 | 16.92 | 13.08 | 24.60 | 46.00 | 21.40 | PASS |
| 6 | 2.4945 | 11.55 | 18.19 | 29.74 | 56.00 | 26.26 | 5.55 | 17.10 | 46.00 | 28.90 | PASS |
| Remai | rk. | | | | | | | | | | |

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[dBµV] – Value[dBµV]



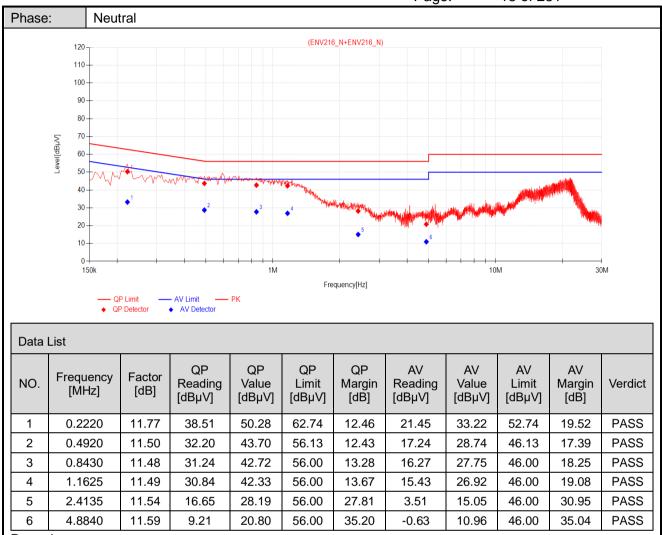
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Remark:

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

| Test Requirement: | ANSI C63.10 :2013 Section 12.2 | | | |
|-------------------------------|--|--|--|--|
| Test Method: | ANSI C63.10 :2013 Section 12.2 | | | |
| Test Setup: | PC E.U.T Image: Signal Generator E.U.T Image: Signal Generator Image: Signal Generator Image: Signal Generator | | | |
| 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: A | The detailed test data see: Appendix | | | |



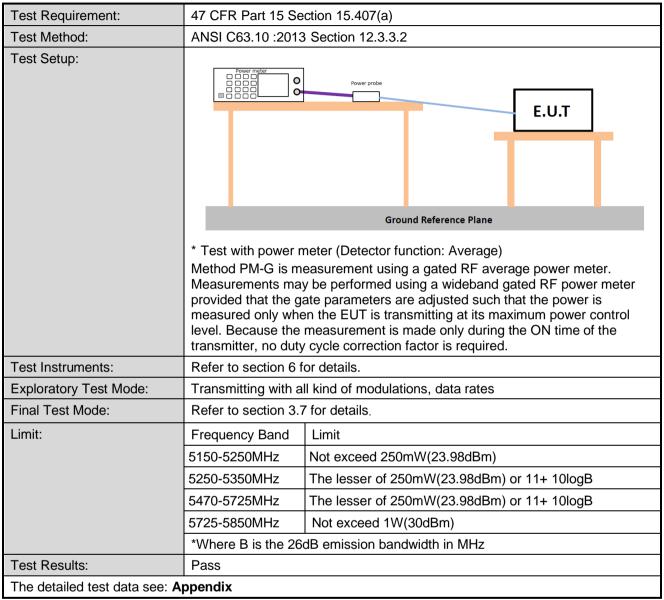
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4.4 Conducted Output Power



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Test Requirement: 47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C Test Method: ANSI C63.10: 2013 Section 12.4.1 Test Setup: SGS Test system 0 PC \circ 0 E.U.T Analog Signal G 9 DC Powe 00000 Ground Reference Plane 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

4.5 26dB Emission Bandwidth



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Test Requirement: 47 CFR Part 15 Section 15.407(e) **Test Method:** ANSI C63.10: 2013 Section 12.4.1 Test Setup: SGS Test system 0 PC \circ Tester 0 E.U.T 9 DC Powe 00000 Ground Reference Plane **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. Frequency Band Limit Limit: 5725-5850MHz At least 500kHz **Test Results:** Pass The detailed test data see: Appendix

4.6 6dB Emission Bandwidth



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Test Requirement: KDB 789033 D02§ D Test Method: ANSI C63.10: 2013 Section 12.4.2 Test Setup: SGS Test system 0 PC Oŏ G Unit 0 0 0 E.U.T Analog Signal Ge DC Powe ļ **Ground Reference Plane** Instruments Used: Refer to section 6 for details. Transmitting with all kind of modulations, data rates Exploratory Test Mode: 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

4.7 99% Occupied Bandwidth



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| - | - | | | |
|-------------------------------|---|--|--|--|
| Test Requirement: | 47 CFR Part 15 Section 15.407(a) | | | |
| Test Method: | ANSI C63.10: 2013 Section 12.5 | | | |
| | KDB 789033 D02 v02r01, Section F. | | | |
| Test Setup: | PC Image: Signal Generator Image: | | | |
| 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 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 | The detailed test data see: Appendix | | | |

4.8 Power Spectral Density



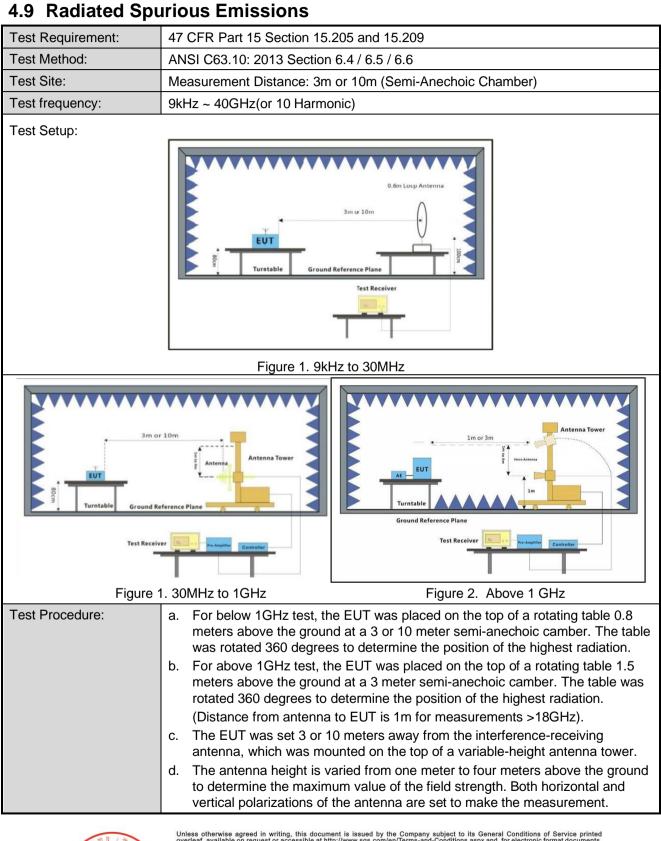
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|------------------------|--|
| | e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the 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. |
| | The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. |
| | 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. |
| | I. At a measurement distance of 1 meter the limit line was increased by $20*LOG(3/1) = 9.54 \text{ dB}.$ |
| 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 \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW \geq 1 |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates. |
| Final Test Mode: | Refer to section 3.7 for details. |
| That Tost Would. | For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report. |
| Instruments Used: | Refer to section 6 for details. |
| Test Results: | Pass |
| | |



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| The detailed test data see: Appendix | | |

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4.10Restricted bands around fundamental frequency

| Test Requirement:47 CFR Part 15 Section 15.407(b) | | | |
|---|--|----------------|---------------|
| Test Method: | ANSI C63.10: 2013 Section | | |
| 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 |
| | | | Peak Value |

Test Setup:

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| | Antenna Tower Im or 3m Ju Ju Ju Ju Ju Ju Ju Ju Ju Ju | |
|-----------------|---|--|
| 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 X 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 \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW \geq 1 MHz • VBW = 1 0Hz, when duty cycle is no less than 98 percent. • VBW \geq 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 |
| Exploratory Test Mode: | maximum power control level for the tested mode of operation. 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 | e: 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 | Operatio | 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 | Client Without | |
| | with Radar Detection | 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 perfe | ormance check (Section 7.8.4) sho | uld include several | |
| frequencies within the radar detection bandwidth and frequencies near the edge of the radar | | | |
| detection bandwidth. For 802.11 devi | ces it is suggested to select frequen | ncies in each of the | |
| bonded 20 MHz channels and the char | nnel center frequency. | | |



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4.11.2 DFS Detection Thresholds

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

| Maximum Transmit Power | Value |
|---|-------------------------------------|
| | (See Notes 1, 2, and 3) |
| $EIRP \ge 200 milliwatt$ | -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 dE | Bi receive antenna. |
| Note 2: Throughout these test procedures an additional 1 dB has been | en added to the amplitude of the |
| test transmission waveforms to account for variations in measureme | nt equipment. This will ensure that |
| the test signal is at or above the detection threshold level to trigger a | a DFS response. |
| Note3: EIRP is based on the highest antenna gain. For MIMO devi | ces refer to KDB Publication |
| 662911 D01. | |



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4.11.3 RADAR TEST WAVEFORMS

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Table 5 – Short Pulse Radar Test Waveforms

| Radar | Pulse Width | PRI | Number of Pulses | Minimum | Minimum |
|--------------|----------------------------------|--|--|------------------|------------|
| Туре | (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 | $\operatorname{Roundup} \left\{ \begin{pmatrix} \frac{1}{360} \end{pmatrix} \cdot \\ \begin{pmatrix} \frac{19 \cdot 10^{6}}{\operatorname{PRI}_{\mu \operatorname{sec}}} \end{pmatrix} \right\}$ | 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 (I | Radar Types 1- | 4) | | 80% | 120 |
| | ort Pulse Rada hannel closing | | sed for the detection ba | ndwidth test, ch | annel move |



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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 | | | | | | | |
|--|--------|-------|--------|-----------|-----------|---------------|-----------|
| Radar | Pulse | Chirp | PRI | Number | Number | Minimum | Minimum |
| Туре | 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 6 – Long Pulse Radar Test Waveform

| Table 7 – Frequency Hopping Radar Test Waveform | Table 7 – | Frequency | Hopping | Radar Test | Waveform |
|---|-----------|-----------|---------|------------|----------|
|---|-----------|-----------|---------|------------|----------|

| Radar | Pulse | PRI | Pulses | Hopping | Hopping | Minimum | Minimum |
|-------|--------|--------|--------|---------|----------|---------------|-----------|
| Type | Width | (µsec) | per | Rate | Sequence | Percentage of | Number of |
| | (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) |
| | | ± 3.13dB (9k -30MHz) |
| 0 | Radiated Emission | ± 4.88dB (30M -1GHz) |
| 8 | Radiated Emission | ± 4.75dB (1GHz to 18GHz) |
| | | ± 4.77dB (Above 18GHz) |

Remark:

S

The U_{lab} (lab Uncertainty) is less than U_{cispt/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 | | |
| Signal Analyzer | ROHDE& SCHWARZ | FSV3030 | SUWI-01-02-02 | 2023/05/11 | 2024/05/10 | | |
| Measurement Software | Tonscend | JS1120-3 Test System V 3.3.20 | SUWI-02-09-09 | NCR | NCR | | |
| Measurement Software | TST | TST-272 V2.0 | SUWI-03-55-03 | NCR | NCR | | |
| Signal Analyzer | ROHDE& SCHWARZ | FSW43 | SUWI-01-02-04 | 2023/05/11 | 2024/05/10 | | |
| Temperature Chamber | ESPEC | SU-242 | SUWI-01-13-01 | 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 | 2023/11/21 | 2024/11/20 | | |
| Pulse power sensor | Anritsu | MA2411B | SUWI-01-32-01 | 2023/11/21 | 2024/11/20 | | |
| MXG Vector signal genitor | KEYSIGHT | N5182B | SUWI-01-38-01 | 2023/02/06 | 2024/02/05 | | |
| Signal Generator | ROHDE &SCHWARZ | SMM100A | SUWI-01-07-04 | 2023/02/16 | 2024/02/15 | | |
| Signal Analyzer | KEYSIGHT | N9020A | SUWI-01-02-07 | 2023/11/21 | 2024/11/20 | | |

| Conduction 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-04-03-01 | 2021/05/08 | 2024/05/07 | |
| 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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| | | | raye. | 34 01 23 1 | | |
|--------------------------------------|-------------------------------|---------------------|---------------|---------------------------|------------------------------|--|
| RSE Test System | | | | | | |
| Test 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-04-02-02 | 2021/11/25 | 2024/11/24 | |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-13 | 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-01-02-06 | 2023/11/21 | 2024/11/20 | |
| Test receiver | ROHDE&SCHWARZ | ESR7 | SUWI-01-10-01 | 2023/02/08 | 2024/02/07 | |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | VULB 9168 | SUWI-01-11-04 | 2023/11/25 | 2024/11/24 | |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9120D | SUWI-01-11-05 | 2023/11/25 | 2024/11/24 | |
| 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 | TAP9K3G32 | SUWI-01-14-06 | 2023/11/21 | 2024/11/20 | |
| Amplifier | Tonscend | TAP01018050 | SUWI-01-14-04 | 2023/11/21 | 2024/11/20 | |
| Amplifier | Tonscend | TAP30M7G30 | SUWI-01-14-05 | 2023/11/21 | 2024/11/20 | |
| Measurement Software | Tonscend | JS32-RE V4.0.0.0 | SUWI-02-09-04 | NCR | NCR | |

Remark: NCR=No Calibration Requirement.



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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 | Ant5 | 5180 | 23.24 | 5169.20 | 5192.44 | |
| 11a | Ant5 | 5220 | 21.72 | 5208.48 | 5230.20 | |
| 11a | Ant5 | 5240 | 22.84 | 5229.84 | 5252.68 | |
| 11a | Ant5 | 5260 | 20.80 | 5250.00 | 5270.80 | |
| 11a | Ant5 | 5300 | 20.24 | 5289.96 | 5310.20 | |
| 11a | Ant5 | 5320 | 21.44 | 5309.76 | 5331.20 | |
| 11a | Ant5 | 5500 | 23.96 | 5489.44 | 5513.40 | |
| 11a | Ant5 | 5580 | 21.80 | 5569.52 | 5591.32 | |
| 11a | Ant5 | 5700 | 20.16 | 5689.84 | 5710.00 | |
| 11a | Ant5 | 5745 | 21.08 | 5734.40 | 5755.48 | |
| 11a | Ant5 | 5785 | 23.80 | 5772.80 | 5796.60 | |
| 11a | Ant5 | 5825 | 26.56 | 5811.60 | 5838.16 | |
| 11n20SISO | Ant5 | 5180 | 24.84 | 5167.40 | 5192.24 | |
| 11n20SISO | Ant5 | 5220 | 24.60 | 5207.52 | 5232.12 | |
| 11n20SISO | Ant5 | 5240 | 24.12 | 5227.16 | 5251.28 | |
| 11n20SISO | Ant5 | 5260 | 24.20 | 5247.44 | 5271.64 | |
| 11n20SISO | Ant5 | 5300 | 24.36 | 5287.32 | 5311.68 | |
| 11n20SISO | Ant5 | 5320 | 23.88 | 5307.24 | 5331.12 | Бал |
| 11n20SISO | Ant5 | 5500 | 21.60 | 5488.48 | 5510.08 | For Report |
| 11n20SISO | Ant5 | 5580 | 23.28 | 5568.16 | 5591.44 | Purpose |
| 11n20SISO | Ant5 | 5700 | 24.32 | 5687.04 | 5711.36 | Fuipose |
| 11n20SISO | Ant5 | 5745 | 26.40 | 5731.24 | 5757.64 | |
| 11n20SISO | Ant5 | 5785 | 26.88 | 5771.20 | 5798.08 | |
| 11n20SISO | Ant5 | 5825 | 29.84 | 5810.24 | 5840.08 | |
| 11n40SISO | Ant5 | 5190 | 41.44 | 5168.96 | 5210.40 | |
| 11n40SISO | Ant5 | 5230 | 41.28 | 5209.28 | 5250.56 | |
| 11n40SISO | Ant5 | 5270 | 40.40 | 5249.76 | 5290.16 | |
| 11n40SISO | Ant5 | 5310 | 40.64 | 5289.44 | 5330.08 | |
| 11n40SISO | Ant5 | 5510 | 41.36 | 5489.04 | 5530.40 | |
| 11n40SISO | Ant5 | 5550 | 41.76 | 5529.52 | 5571.28 | |
| 11n40SISO | Ant5 | 5670 | 49.52 | 5640.88 | 5690.40 | |
| 11n40SISO | Ant5 | 5755 | 40.56 | 5734.52 | 5775.08 | |
| 11n40SISO | Ant5 | 5795 | 49.36 | 5765.80 | 5815.16 |] [|
| 11ac80SISO | Ant5 | 5210 | 81.28 | 5169.52 | 5250.80 |] |
| 11ac80SISO | Ant5 | 5290 | 81.12 | 5249.52 | 5330.64 | |
| 11ac80SISO | Ant5 | 5530 | 81.44 | 5489.36 | 5570.80 |] |
| 11ac80SISO | Ant5 | 5610 | 81.12 | 5569.36 | 5650.48 | |
| 11ac80SISO | Ant5 | 5775 | 97.28 | 5718.68 | 5815.96 | |

Remark:

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



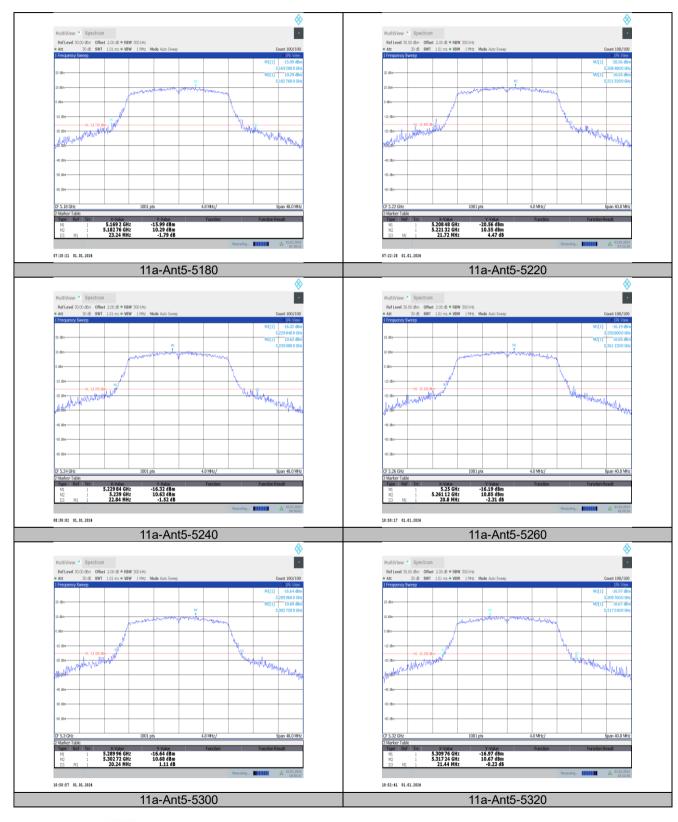
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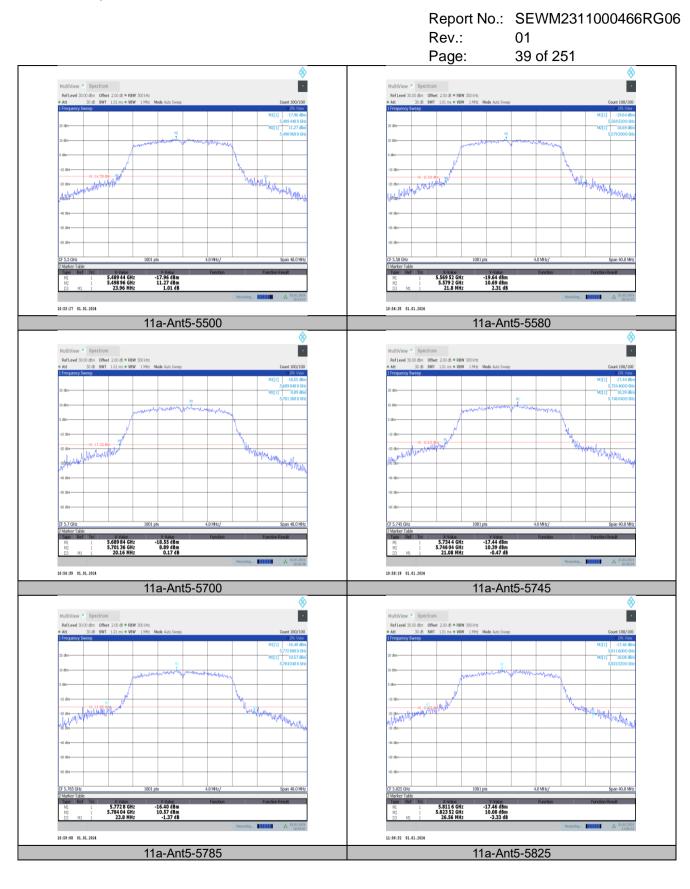




Test Graphs

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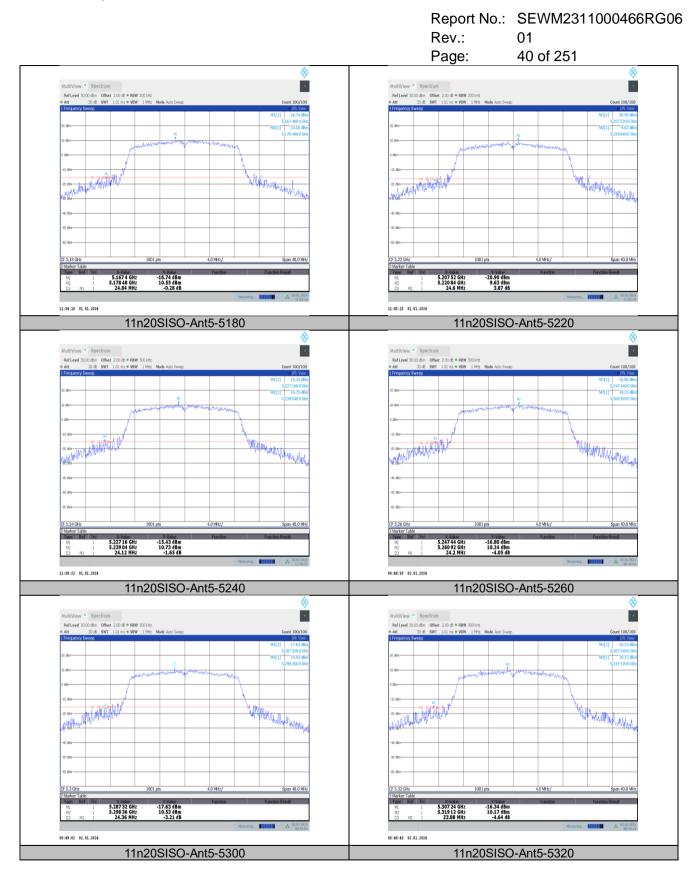
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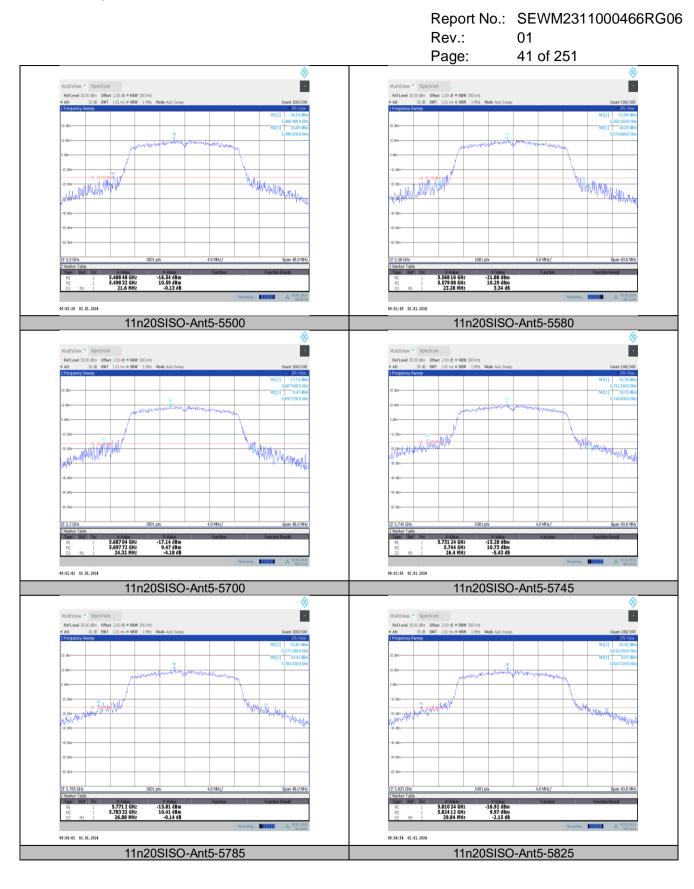
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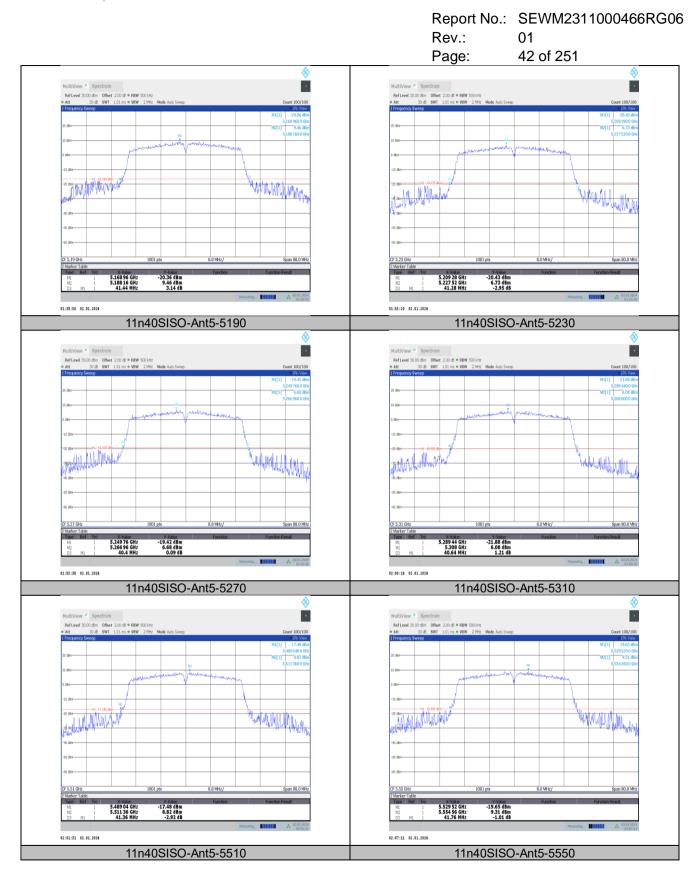
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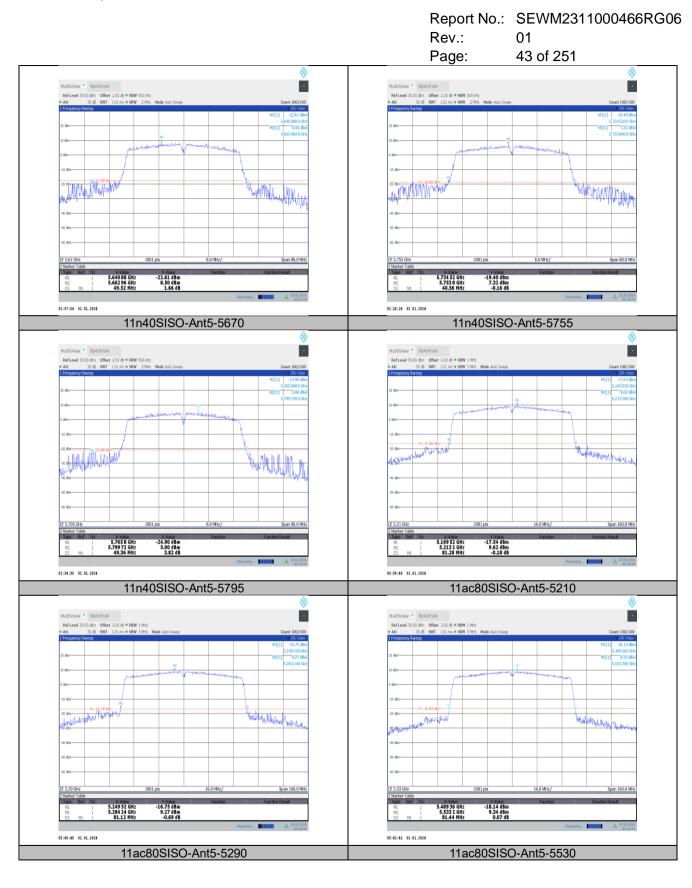
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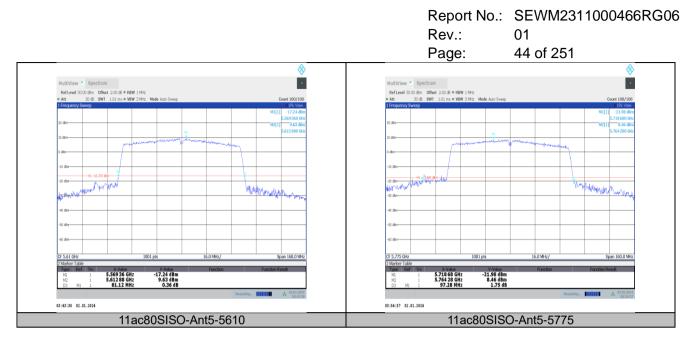
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Occupied channel bandwidth Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Verdict |
|------------|---------|----------------|-----------|-----------|-----------|----------|
| 11a | Ant5 | 5180 | 17.057 | 5171.4432 | 5188.5004 | |
| 11a | Ant5 | 5220 | 17.098 | 5211.4426 | 5228.5407 | |
| 11a | Ant5 | 5240 | 17.185 | 5231.3514 | 5248.5364 | |
| 11a | Ant5 | 5260 | 17.192 | 5251.3799 | 5268.5721 | |
| 11a | Ant5 | 5300 | 17.093 | 5291.4463 | 5308.5394 | |
| 11a | Ant5 | 5320 | 17.087 | 5311.4278 | 5328.5151 | |
| 11a | Ant5 | 5500 | 17.13 | 5491.4317 | 5508.5618 | |
| 11a | Ant5 | 5580 | 17.097 | 5571.4387 | 5588.5358 | |
| 11a | Ant5 | 5700 | 17.024 | 5691.3842 | 5708.4085 | |
| 11a | Ant5 | 5745 | 17.239 | 5736.2719 | 5753.5112 | |
| 11a | Ant5 | 5785 | 17.2 | 5776.3495 | 5793.5498 | |
| 11a | Ant5 | 5825 | 17.279 | 5816.2958 | 5833.5745 | |
| 11n20SISO | Ant5 | 5180 | 18.089 | 5170.9465 | 5189.0352 | |
| 11n20SISO | Ant5 | 5220 | 18.101 | 5210.8977 | 5228.9983 | |
| 11n20SISO | Ant5 | 5240 | 18.024 | 5230.9569 | 5248.9804 | |
| 11n20SISO | Ant5 | 5260 | 18.06 | 5250.9405 | 5269.0005 | |
| 11n20SISO | Ant5 | 5300 | 18.01 | 5290.9624 | 5308.9728 | |
| 11n20SISO | Ant5 | 5320 | 18.001 | 5310.9514 | 5328.9525 | F |
| 11n20SISO | Ant5 | 5500 | 17.965 | 5490.9998 | 5508.9648 | For |
| 11n20SISO | Ant5 | 5580 | 18.03 | 5570.9764 | 5589.0068 | Report |
| 11n20SISO | Ant5 | 5700 | 18.079 | 5690.8847 | 5708.9633 | Purpose |
| 11n20SISO | Ant5 | 5745 | 18.155 | 5735.7978 | 5753.9527 | |
| 11n20SISO | Ant5 | 5785 | 18.267 | 5775.7967 | 5794.0637 | |
| 11n20SISO | Ant5 | 5825 | 18.281 | 5815.8161 | 5834.0975 | |
| 11n40SISO | Ant5 | 5190 | 37.088 | 5171.4842 | 5208.5721 | |
| 11n40SISO | Ant5 | 5230 | 36.749 | 5211.6505 | 5248.3991 | |
| 11n40SISO | Ant5 | 5270 | 36.865 | 5251.4858 | 5288.3512 | |
| 11n40SISO | Ant5 | 5310 | 36.726 | 5291.6409 | 5328.3666 | |
| 11n40SISO | Ant5 | 5510 | 36.575 | 5491.7429 | 5528.3175 | |
| 11n40SISO | Ant5 | 5550 | 36.657 | 5531.6440 | 5568.3007 | |
| 11n40SISO | Ant5 | 5670 | 36.663 | 5651.4917 | 5688.1544 | |
| 11n40SISO | Ant5 | 5755 | 37.112 | 5736.2762 | 5773.3882 | |
| 11n40SISO | Ant5 | 5795 | 36.747 | 5776.5705 | 5813.3176 | |
| 11ac80SISO | Ant5 | 5210 | 75.341 | 5172.4047 | 5247.7456 | |
| 11ac80SISO | Ant5 | 5290 | 75.455 | 5252.2485 | 5327.7030 | |
| 11ac80SISO | Ant5 | 5530 | 75.351 | 5492.2889 | 5567.6397 | |
| 11ac80SISO | Ant5 | 5610 | 75.406 | 5572.2055 | 5647.6114 | |
| 11ac80SISO | Ant5 | 5775 | 75.718 | 5736.8361 | 5812.5541 | |

Remark:

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



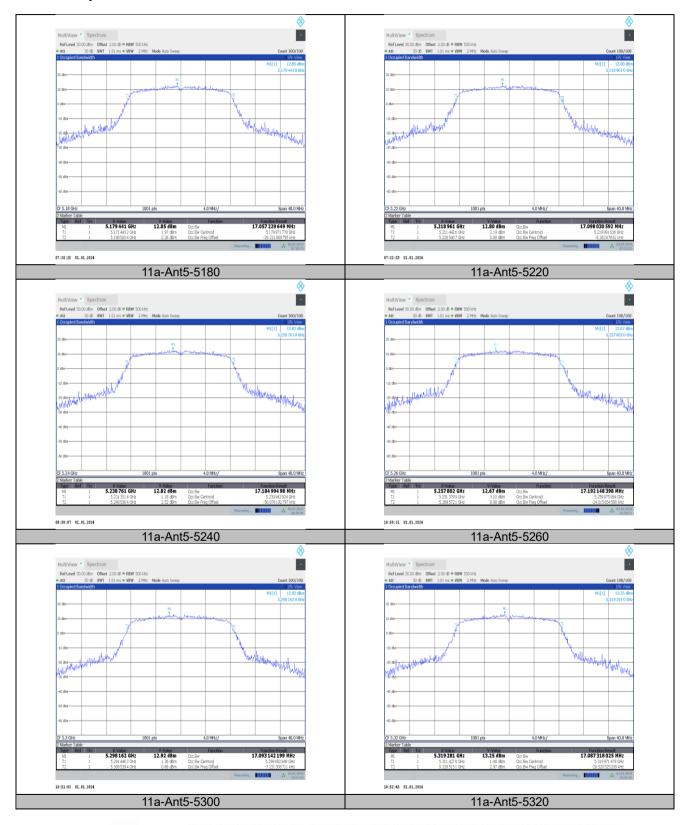
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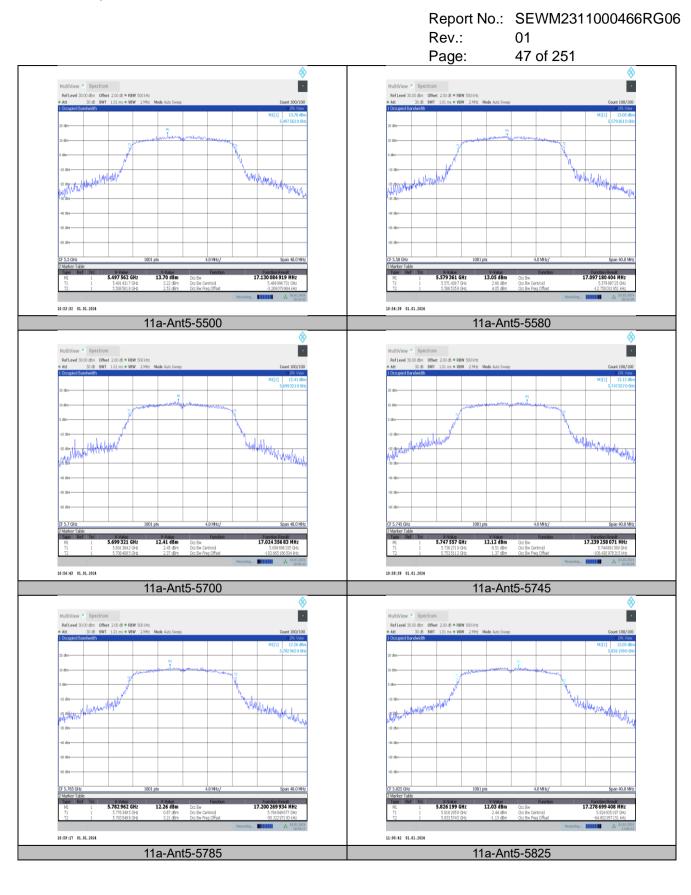




Test Graphs

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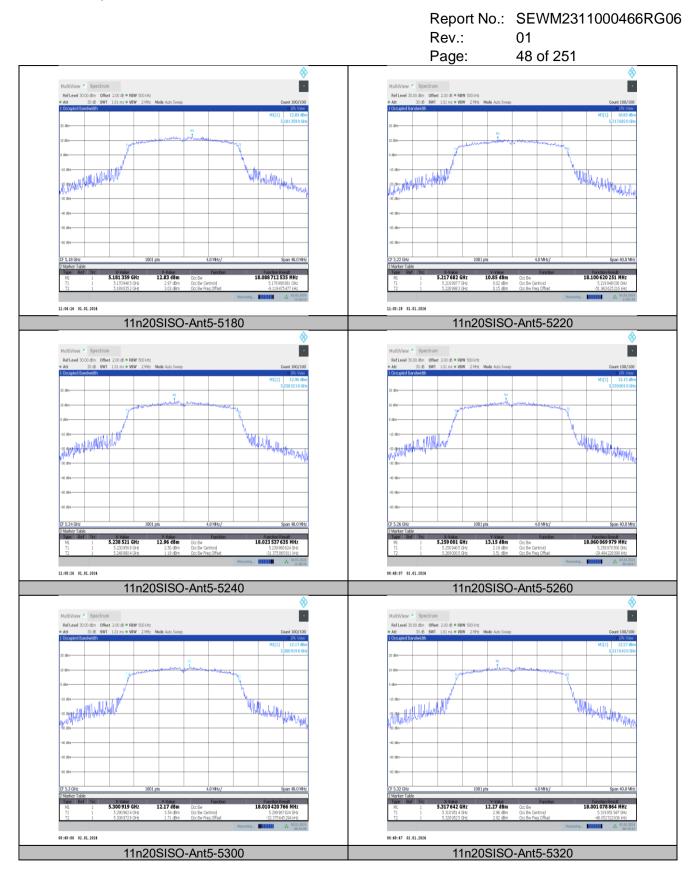
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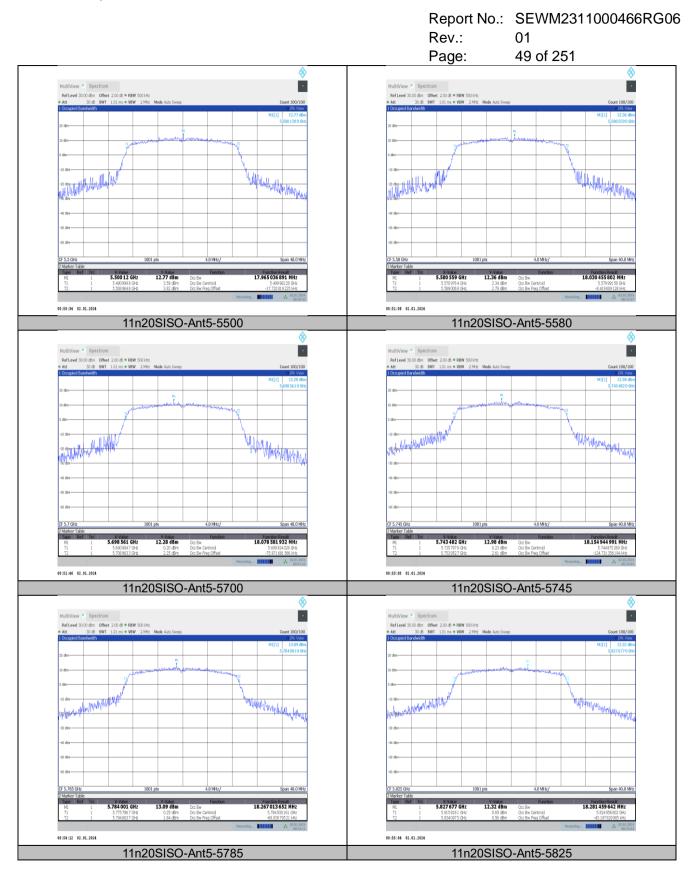
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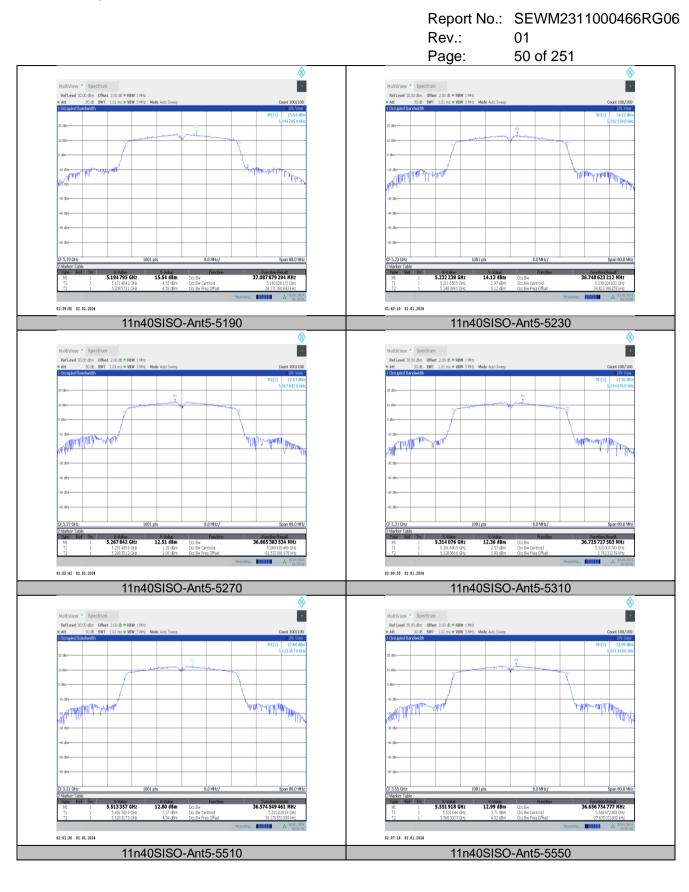


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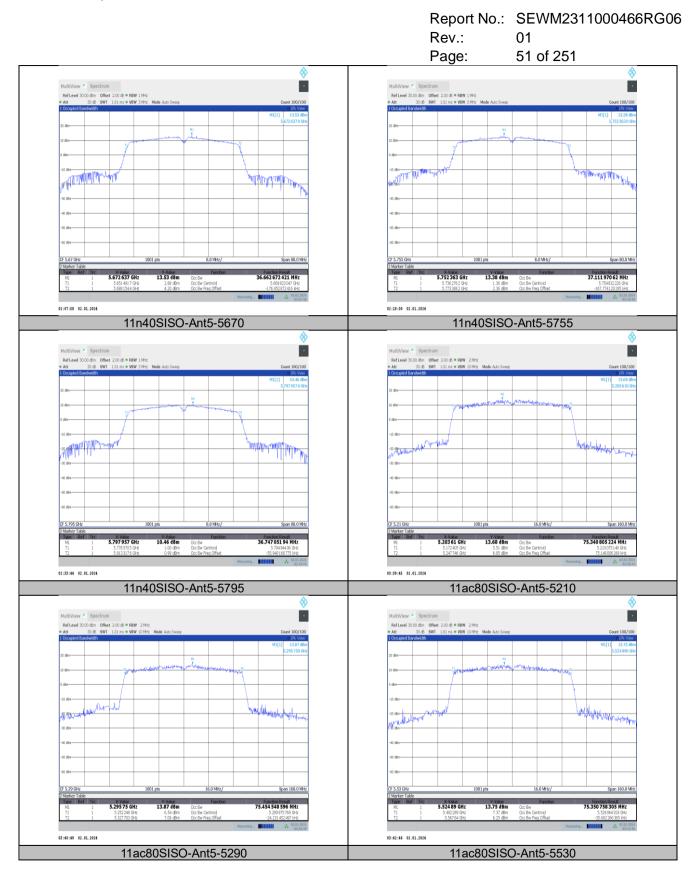
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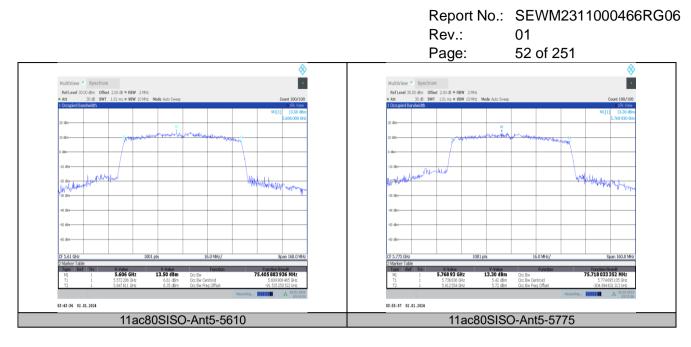
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6dB emission bandwidth Test Result B4

| TestMode | Antenna | Frequency[MHz] | 6db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|----------------|------------------|---------|---------|------------|---------|
| 11a | Ant5 | 5745 | 15.12 | 5737.16 | 5752.28 | ≥0.5 | PASS |
| 11a | Ant5 | 5785 | 14.56 | 5777.36 | 5791.92 | ≥0.5 | PASS |
| 11a | Ant5 | 5825 | 15.20 | 5817.36 | 5832.56 | ≥0.5 | PASS |
| 11n20SISO | Ant5 | 5745 | 15.12 | 5737.44 | 5752.56 | ≥0.5 | PASS |
| 11n20SISO | Ant5 | 5785 | 15.16 | 5777.40 | 5792.56 | ≥0.5 | PASS |
| 11n20SISO | Ant5 | 5825 | 17.00 | 5816.40 | 5833.40 | ≥0.5 | PASS |
| 11n40SISO | Ant5 | 5755 | 35.28 | 5737.32 | 5772.60 | ≥0.5 | PASS |
| 11n40SISO | Ant5 | 5795 | 34.08 | 5778.52 | 5812.60 | ≥0.5 | PASS |
| 11ac80SISO | Ant5 | 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, 802.11 n HT20/40 by referring to their higher output power.



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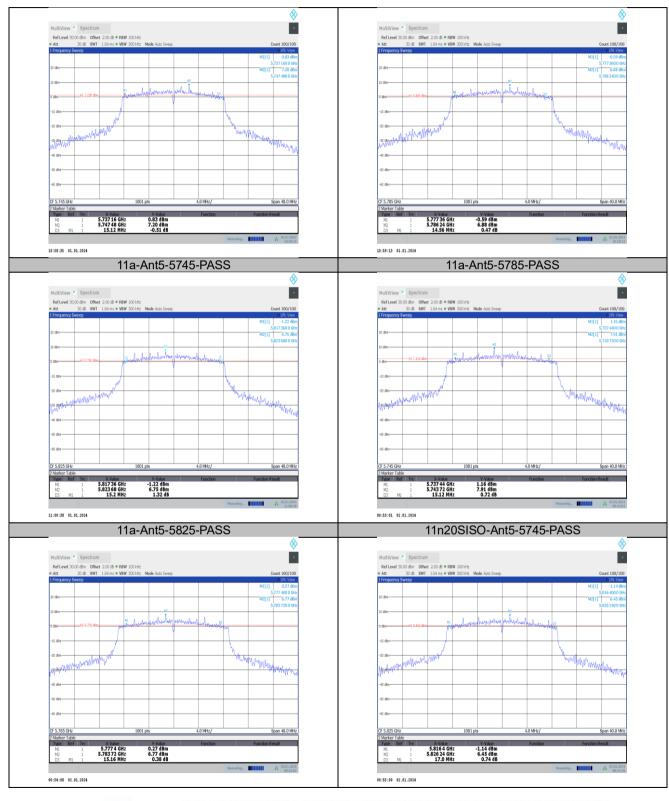
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Test Graphs B4



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