

Report No.: SZEM200700629203

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TEST REPORT

Application No.: SZEM2007006292CR

Applicant: Kohler Co.

Address of Applicant: 444 Highland Drive. Kohler, Wisconsin, 53044, United States

Manufacturer: Kohler Co.

Address of Manufacturer: 444 Highland Drive. Kohler, Wisconsin, 53044, United States

Factory: 1. Shenzhen 3Nod Digital Technology Co., Ltd.

2. Guangxi 3nod Digital Technology Co., Ltd.

Address of Factory: 1. 401, ZONE 101A, WORKSHOP 15, ZHONGFU ROAD, TANGXIAYONG

COMMUNITY, YANLUOSTREET, BAOAN DIRSTRICT, SHENZHEN CITY,

GUANGDONG PROVINCE, P.R.C.

2. B02 Plant Building, 3Nod Smart Industrial Park, Bei Hai Industrial Park, East Jilin Road, North of Longtoujiang Reservoir, Beihai, Guangxi, China

Equipment Under Test (EUT):

EUT Name: Moxie

Model No.: K-28235-NKA
Trade Mark: KOHLER

FCC ID: N82-KOHLER044

Standard(s): 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2020-07-09

Date of Test: 2020-07-17 to 2020-08-03

Date of Issue: 2020-08-18

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Keny. Ku



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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| | Revision Record | | | | | | |
|---------|-----------------|------------|----------|----------|--|--|--|
| Version | Chapter | Date | Modifier | Remark | | | |
| 01 | | 2020-08-18 | | Original | | | |
| | | | | | | | |
| | | | | | | | |

| Authorized for issue by: | | |
|--------------------------|-------------------------------|--|
| | Bonson Wang | |
| | Benson Wang /Project Engineer | |
| | EvicFu | |
| | Eric Fu /Reviewer | |



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Test Summary 2

| Radio Spectrum Technical Requirement | | | | | | |
|---|-------------------------------------|-----|---|------|--|--|
| Item Standard Method Requirement Result | | | | | | |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.247 | N/A | 47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4) | Pass | | |

| Radio Spectrum Matter Part | | | | | |
|---|-------------------------------------|--------------------------------------|---|--------|--|
| Item | Standard | Method | Requirement | Result | |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | Pass | |
| Minimum 6dB | 47 CFR Part 15, | ANSI C63.10 (2013) | 47 CFR Part 15, Subpart | Pass | |
| Bandwidth | Subpart C 15.247 | Section 11.8.1 | C 15.247a(2) | | |
| Conducted Peak | 47 CFR Part 15, | ANSI C63.10 (2013) | 47 CFR Part 15, Subpart | Pass | |
| Output Power | Subpart C 15.247 | Section 11.9.1 | C 15.247(b)(3) | | |
| Power Spectrum | 47 CFR Part 15, | ANSI C63.10 (2013) | 47 CFR Part 15, Subpart | Pass | |
| Density | Subpart C 15.247 | Section 11.10.2 | C 15.247(e) | | |
| Conducted Band | 47 CFR Part 15, | ANSI C63.10 (2013) | 47 CFR Part 15, Subpart | Pass | |
| Edges Measurement | Subpart C 15.247 | Section 11.13.3.2 | C 15.247(d) | | |
| Conducted Spurious | 47 CFR Part 15, | ANSI C63.10 (2013) | 47 CFR Part 15, Subpart | Pass | |
| Emissions | Subpart C 15.247 | Section 11.11 | C 15.247(d) | | |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.209 & 15.247(d) | Pass | |
| Radiated Spurious | 47 CFR Part 15, | ANSI C63.10 (2013) | 47 CFR Part 15, Subpart | Pass | |
| Emissions | Subpart C 15.247 | Section 6.4,6.5,6.6 | C 15.209 & 15.247(d) | | |



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General Information

Details of E.U.T. 4.1

| Power Supply: | Charging base Powered by DC 5V 2A |
|----------------------|--|
| | Lithium Ion Battery: 3.7V 3800mAh (Charged by charging base) |
| Cable: | USB cable: 109cm unshielded |
| Operation Frequency: | 802.11b/g/n(HT20): 2412MHz to 2462MHz |
| Modulation Type: | 802.11b: DSSS (CCK, DQPSK, DBPSK) |
| | 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Number of Channels: | 802.11b/g/n(HT20):11 |
| Channel Spacing: | 5MHz |
| Antenna Type: | Integral Antenna |
| Antenna Gain: | 2.27dBi |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|----------------|
| Adapter | SAMSUNG | EP-TA200 | R37J8YA7W71DK3 |

4.3 Measurement Uncertainty

| Item | Measurement Uncertainty |
|---------------------------------|---------------------------|
| Radio Frequency | ± 7.25 x 10 ⁻⁸ |
| Conduction emission | ± 3.0dB (150kHz to 30MHz) |
| RF conducted power | ± 0.75dB |
| RF power density | ± 2.84dB |
| Conducted Spurious emissions | ± 0.75dB |
| DE Dadiated newer | ± 4.5dB (Below 1GHz) |
| RF Radiated power | ± 4.8dB (Above 1GHz) |
| Dedicted Courieus emission test | ± 4.5dB (Below 1GHz) |
| Radiated Spurious emission test | ± 4.8dB (Above 1GHz) |
| Temperature test | ± 1 ℃ |
| Humidity test | ± 3% |
| Supply voltages | ± 1% |
| Time | ± 3% |



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4.4 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

4.7 Abnormalities from Standard Conditions

None





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Equipment List 5

| Conducted Emissions at AC Power Line (150kHz-30MHz) | | | | | | |
|---|------------------|---------------------|--------------|------------|--------------|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | |
| Shielding Room | ZhongYu Electron | GB-88 | SEM001-06 | 2019-06-13 | 2022-06-12 | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM024-01 | 2020-07-10 | 2021-07-09 | |
| LISN | Rohde & Schwarz | ENV216 | SEM007-01 | 2019-09-24 | 2020-09-23 | |
| LISN | ETS-LINDGREN | 3816/2 | SEM007-02 | 2020-04-01 | 2021-03-31 | |
| EMI Test Receiver | Rohde & Schwarz | ESCI | SEM004-02 | 2020-03-24 | 2021-03-23 | |

| Minimum 6dB Bandwidth | | | | | |
|---|-----------------|--------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Shielding Room | SAEMC | MSR733 | SEM001-09 | 2019-06-13 | 2022-06-12 |
| DC Power Supply | Rohde & Schwarz | NGSM 32/10 | SEM011-04 | 2020-03-24 | 2021-03-23 |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2019-09-24 | 2020-09-23 |
| Measurement Software | TST | TST PASS V1.0.5 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM031-02 | 2020-07-10 | 2021-07-09 |
| Attenuator | Huber+Suhner | 6620_SMA-50- 1 | SEM021-09 | N/A | N/A |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2019-09-24 | 2020-09-23 |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2019-09-24 | 2020-09-23 |
| Electric and Magnetic Field Analyzer | Narda | EHP-50F | SEM022-05 | 2019-11-28 | 2020-11-27 |

| Conducted Peak Output Power | | | | | |
|---|-----------------|--------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Shielding Room | SAEMC | MSR733 | SEM001-09 | 2019-06-13 | 2022-06-12 |
| DC Power Supply | Rohde & Schwarz | NGSM 32/10 | SEM011-04 | 2020-03-24 | 2021-03-23 |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2019-09-24 | 2020-09-23 |
| Measurement Software | TST | TST PASS V1.0.5 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM031-02 | 2020-07-10 | 2021-07-09 |
| Attenuator | Huber+Suhner | 6620_SMA-50- 1 | SEM021-09 | N/A | N/A |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2019-09-24 | 2020-09-23 |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2019-09-24 | 2020-09-23 |
| Electric and Magnetic Field Analyzer | Narda | EHP-50F | SEM022-05 | 2019-11-28 | 2020-11-27 |



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| Power Spectrum Density | | | | | | | |
|---|-----------------|--------------------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| Shielding Room | SAEMC | MSR733 | SEM001-09 | 2019-06-13 | 2022-06-12 | | |
| DC Power Supply | Rohde & Schwarz | NGSM 32/10 | SEM011-04 | 2020-03-24 | 2021-03-23 | | |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2019-09-24 | 2020-09-23 | | |
| Measurement Software | TST | TST PASS V1.0.5 | N/A | N/A | N/A | | |
| Coaxial Cable | SGS | N/A | SEM031-02 | 2020-07-10 | 2021-07-09 | | |
| Attenuator | Huber+Suhner | 6620_SMA-50- 1 | SEM021-09 | N/A | N/A | | |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2019-09-24 | 2020-09-23 | | |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2019-09-24 | 2020-09-23 | | |
| Electric and Magnetic Field Analyzer Narda | | EHP-50F | SEM022-05 | 2019-11-28 | 2020-11-27 | | |

| Conducted Band Edges Measurement | | | | | | | |
|---|-----------------|--------------------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| Shielding Room | SAEMC | MSR733 | SEM001-09 | 2019-06-13 | 2022-06-12 | | |
| DC Power Supply | Rohde & Schwarz | NGSM 32/10 | SEM011-04 | 2020-03-24 | 2021-03-23 | | |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2019-09-24 | 2020-09-23 | | |
| Measurement Software | TST | TST PASS V1.0.5 | N/A | N/A | N/A | | |
| Coaxial Cable | SGS | N/A | SEM031-02 | 2020-07-10 | 2021-07-09 | | |
| Attenuator | Huber+Suhner | 6620_SMA-50- 1 | SEM021-09 | N/A | N/A | | |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2019-09-24 | 2020-09-23 | | |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2019-09-24 | 2020-09-23 | | |
| Electric and Magnetic Field Analyzer | Narda | EHP-50F | SEM022-05 | 2019-11-28 | 2020-11-27 | | |



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| Conducted Spurious Emissions | | | | | | | | |
|---|------------------------|--------------------|--------------|------------|--------------|--|--|--|
| Equipment | Equipment Manufacturer | | Inventory No | Cal Date | Cal Due Date | | | |
| Shielding Room | SAEMC | MSR733 | SEM001-09 | 2019-06-13 | 2022-06-12 | | | |
| DC Power Supply | Rohde & Schwarz | NGSM 32/10 | SEM011-04 | 2020-03-24 | 2021-03-23 | | | |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2019-09-24 | 2020-09-23 | | | |
| Measurement Software | TST | TST PASS V1.0.5 | N/A | N/A | N/A | | | |
| Coaxial Cable | SGS | N/A | SEM031-02 | 2020-07-10 | 2021-07-09 | | | |
| Attenuator | Huber+Suhner | 6620_SMA-50- 1 | SEM021-09 | N/A | N/A | | | |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2019-09-24 | 2020-09-23 | | | |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2019-09-24 | 2020-09-23 | | | |
| Electric and Magnetic Field Analyzer | Electric and Magnetic | | SEM022-05 | 2019-11-28 | 2020-11-27 | | | |

| Radiated Emissions which fall in the restricted bands | | | | | | |
|---|----------------------------|---------------------|--------------|------------|--------------|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2018-03-13 | 2021-03-12 | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2020-07-10 | 2021-07-09 | |
| EXA Spectrum Analyzer | AgilentTechnologies Inc | N9010A | SEM004-12 | 2020-04-09 | 2021-04-08 | |
| Horn Antenna | Rohde & Schwarz | HF907 | SEM003-07 | 2018-04-13 | 2021-04-12 | |
| Horn Antenna | Schwarzbeck | BBHA 9170 | SEM003-15 | 2017-10-17 | 2020-10-16 | |
| Pre-Amplifier Compliance Directions Systems PAP-0126 SE | | SEM004-11 | 2019-09-24 | 2020-09-23 | | |
| Pre-amplifier | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2020-04-01 | 2021-03-31 | |
| Pre-amplifier Compliance Directions Systems Inc. | | PAP-2640-50 | SEM005-08 | 2020-04-01 | 2021-03-31 | |
| DC Power Supply | Zhao Xin | KXN-6020D | SEM011-08 | 2019-09-24 | 2020-09-23 | |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 | |



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| Radiated Spurious Emissions | | | | | | | |
|-----------------------------|--|-----------------------|-----------|------------|--------------|--|--|
| Equipment | Manufacturer | Manufacturer Model No | | Cal Date | Cal Due Date | | |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2018-03-13 | 2021-03-12 | | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | | |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2020-07-10 | 2021-07-09 | | |
| EXA Spectrum Analyzer | AgilentTechnologies Inc | · . · NGUTUA | | 2020-04-09 | 2021-04-08 | | |
| Horn Antenna | Rohde & Schwarz | HF907 | SEM003-07 | 2018-04-13 | 2021-04-12 | | |
| Horn Antenna | Schwarzbeck | BBHA 9170 | SEM003-15 | 2017-10-17 | 2020-10-16 | | |
| Pre-Amplifier | Compliance ier Directions Systems Inc. | | SEM004-11 | 2019-09-24 | 2020-09-23 | | |
| Pre-amplifier | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2020-04-01 | 2021-03-31 | | |
| Compliance | | PAP-2640-50 | SEM005-08 | 2020-04-01 | 2021-03-31 | | |
| DC Power Supply | Zhao Xin | KXN-6020D | SEM011-08 | 2019-09-24 | 2020-09-23 | | |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 | | |

| Radiated Emissions | | | | | |
|------------------------------|-------------------------|---------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 10m Semi-Anechoic Chamber | SAEMC | FSAC1018 | SEM001-03 | 2018-03-31 | 2021-03-30 |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM029-01 | 2020-07-10 | 2021-07-09 |
| MXE EMI receiver | KEYSIGHT | N9038A | SEM004-16 | 2019-12-16 | 2020-12-15 |
| Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | SEM003-18 | 2019-08-08 | 2022-08-07 |
| Pre-amplifier | Sonoma Instrument Co | 310N | SEM005-04 | 2020-04-09 | 2021-04-08 |



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| General used equipmen | t | | | | |
|------------------------------------|---|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2019-09-26 | 2020-09-25 |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2019-09-26 | 2020-09-25 |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2019-09-26 | 2020-09-25 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2020-04-07 | 2021-04-06 |



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Radio Spectrum Technical Requirement 6

Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.27dBi.

Antenna location: Refer to internal photo.





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Radio Spectrum Matter Test Results 7

Conducted Emissions at AC Power Line (150kHz-30MHz)

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

| ted limit(dBµV) |
|-----------------|
| Average |
| 56 to 46* |
| 46 |
| 50 |
| |



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7.1.1 E.U.T. Operation

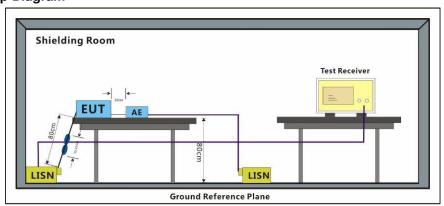
Operating Environment:

Temperature: 23 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Test mode g:Charge + TX mode Keep the EUT in charging and continuously transmitting

mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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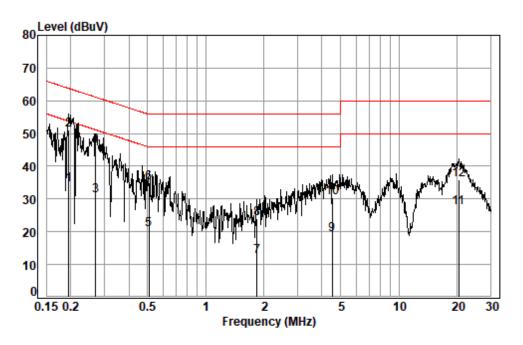
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Mode:g; Line:Live Line



: Shielding Room

Condition: Line Job No. : 06292CR

Test mode: g

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|---------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.1955 | 0.02 | 9.68 | 24.66 | 34.36 | 53.80 | -19.44 | Average |
| 2 | 0.1955 | 0.02 | 9.68 | 41.53 | 51.23 | 63.80 | -12.57 | QP |
| 3 | 0.2701 | 0.03 | 9.68 | 21.33 | 31.04 | 51.12 | -20.08 | Average |
| 4 | 0.2701 | 0.03 | 9.68 | 36.42 | 46.13 | 61.12 | -14.99 | QP |
| 5 | 0.5101 | 0.06 | 9.69 | 10.79 | 20.54 | 46.00 | -25.46 | Average |
| 6 | 0.5101 | 0.06 | 9.69 | 25.10 | 34.85 | 56.00 | -21.15 | QP |
| 7 | 1.8483 | 0.15 | 9.74 | 2.56 | 12.45 | 46.00 | -33.55 | Average |
| 8 | 1.8483 | 0.15 | 9.74 | 13.99 | 23.88 | 56.00 | -32.12 | QP |
| 9 | 4.5254 | 0.17 | 9.81 | 9.21 | 19.19 | 46.00 | -26.81 | Average |
| 10 | 4.5254 | 0.17 | 9.81 | 20.29 | 30.27 | 56.00 | -25.73 | QP |
| 11 | 20.3773 | 0.24 | 10.94 | 16.17 | 27.35 | 50.00 | -22.65 | Average |
| 12 | 20.3773 | 0.24 | 10.94 | 24.64 | 35.82 | 60.00 | -24.18 | QP |



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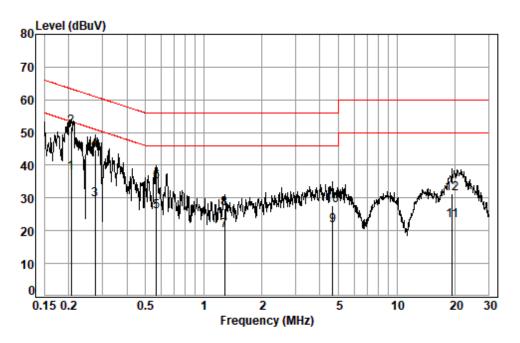
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Mode:g; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 06292CR

Test mode: g

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|---------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.2061 | 0.02 | 9.66 | 27.94 | 37.62 | 53.36 | -15.74 | Average |
| 2 | 0.2061 | 0.02 | 9.66 | 41.98 | 51.66 | 63.36 | -11.70 | QP |
| 3 | 0.2744 | 0.04 | 9.67 | 19.90 | 29.61 | 50.98 | -21.37 | Average |
| 4 | 0.2744 | 0.04 | 9.67 | 34.86 | 44.57 | 60.98 | -16.41 | QP |
| 5 | 0.5701 | 0.07 | 9.68 | 16.09 | 25.84 | 46.00 | -20.16 | Average |
| 6 | 0.5701 | 0.07 | 9.68 | 25.08 | 34.83 | 56.00 | -21.17 | QP |
| 7 | 1.2824 | 0.11 | 9.70 | 10.28 | 20.09 | 46.00 | -25.91 | Average |
| 8 | 1.2824 | 0.11 | 9.70 | 16.95 | 26.76 | 56.00 | -29.24 | QP |
| 9 | 4.6715 | 0.17 | 9.83 | 11.47 | 21.47 | 46.00 | -24.53 | Average |
| 10 | 4.6715 | 0.17 | 9.83 | 17.74 | 27.74 | 56.00 | -28.26 | QP |
| 11 | 19.3257 | 0.24 | 10.86 | 11.94 | 23.04 | 50.00 | -26.96 | Average |
| 12 | 19.3257 | 0.24 | 10.86 | 20.35 | 31.45 | 60.00 | -28.55 | QP |



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7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2) ANSI C63.10 (2013) Section 11.8.1 Test Method:

Limit: ≥500 kHz

7.2.1 E.U.T. Operation

Operating Environment:

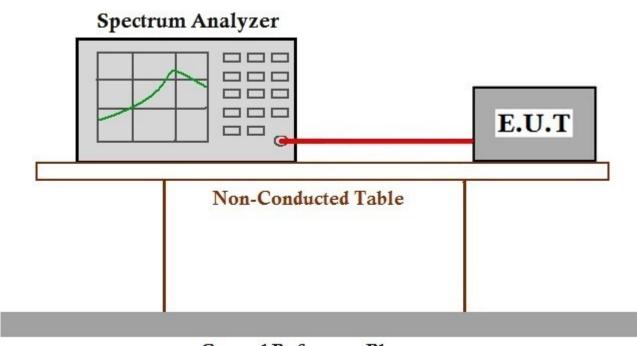
Temperature: 28.4 °C Humidity: 41.5 % RH Atmospheric Pressure: 1010 mbar

Test mode f:TX mode Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20); Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.3 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3) Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

| Frequency range(MHz) Output power of the intentional radiator(v | | | |
|---|--|--|--|
| | 1 for ≥50 hopping channels | | |
| 902-928 | 0.25 for 25≤ hopping channels <50 | | |
| | 1 for digital modulation | | |
| | 1 for ≥75 non-overlapping hopping channels | | |
| 2400-2483.5 | 0.125 for all other frequency hopping systems | | |
| | 1 for digital modulation | | |
| 5725-5850 | 1 for frequency hopping systems and digital modulation | | |



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7.3.1 E.U.T. Operation

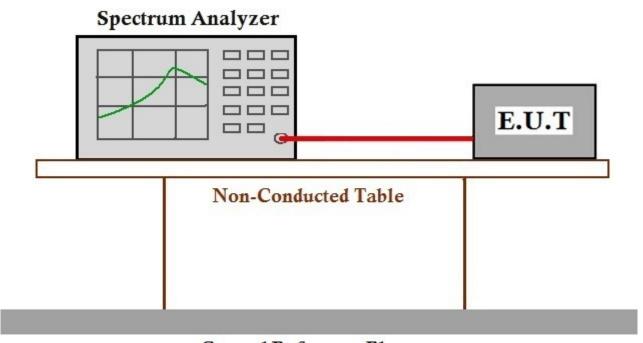
Operating Environment:

Temperature: 28.4 °C Humidity: 41.5 % RH Atmospheric Pressure: 1010 mbar

Test mode f:TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e) Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit: ≤8dBm in any 3 kHz band during any time interval of continuous

transmission

7.4.1 E.U.T. Operation

Operating Environment:

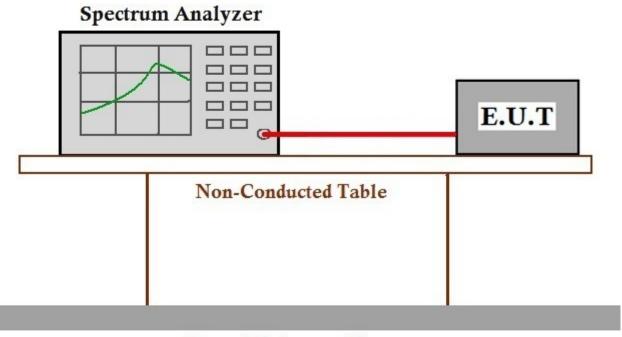
Temperature: Humidity: 41.5 % RH Atmospheric Pressure: 1010 mbar

f:TX mode_Keep the EUT in continuously transmitting mode with all modulation Test mode

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20); Only the data of worst case is recorded in the report.

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)

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7.5.1 E.U.T. Operation

Operating Environment:

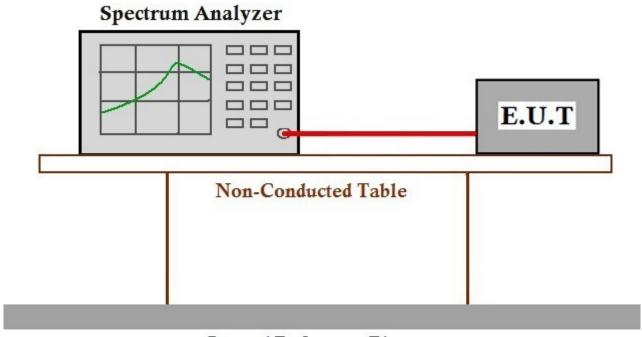
Temperature: 28.4 °C Humidity: 41.5 % RH Atmospheric Pressure: 1010 mbar

Test mode f:TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20); Only the data of worst case is recorded in the report.

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)

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7.6.1 E.U.T. Operation

Operating Environment:

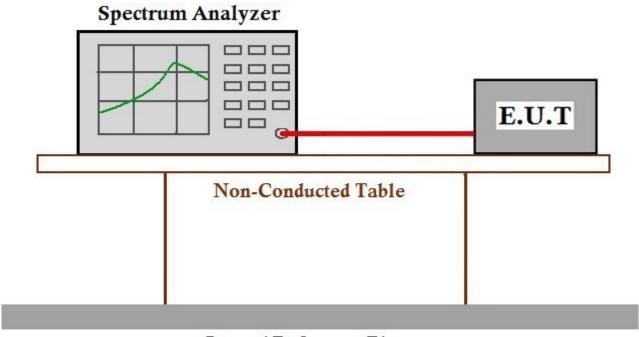
Temperature: 28.4 °C Humidity: 41.5 % RH Atmospheric Pressure: 1010 mbar

Test mode f:TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20); Only the data of worst case is recorded in the report.

7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.7 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15.209 & 15.247(d) **Test Requirement**

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 52.4 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case: f:TX mode Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

g:Charge + TX mode Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the

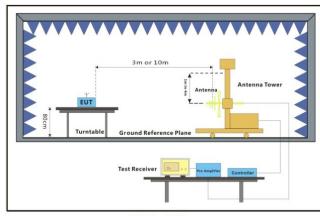
worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the

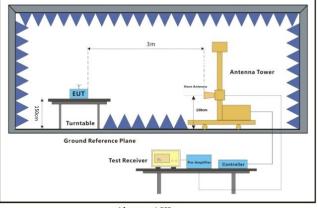
report.

The worst case for final test:

g:Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

7.7.2 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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7.7.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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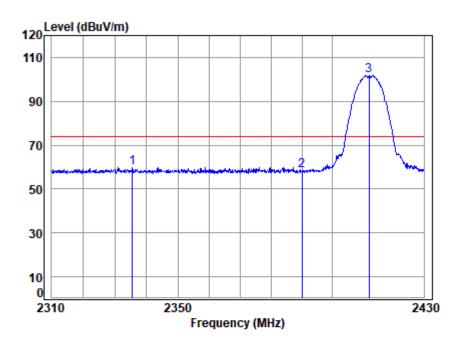
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Mode:g; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR Mode : 2412 Band edge Note : 2.4G WTFT 11B

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|-----|----------|-------|--------|--------|--------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 2335.526 | 4.25 | 28.43 | 40.95 | 68.09 | 59.82 | 74.00 | -14.18 | peak |
| 2 | 2390.000 | 4.34 | 28.52 | 40.97 | 66.32 | 58.21 | 74.00 | -15.79 | peak |
| 3 * | 2412.000 | 4.38 | 28.56 | 40.98 | 109.72 | 101.68 | 74.00 | 27.68 | peak |
| | | | | | | | | | |



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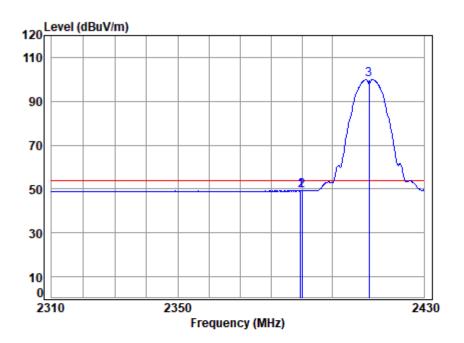
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Report No.: SZEM200700629203

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Mode:g; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 06292CR/06293CR Job No : 2412 Band edge Mode Note : 2.4G WIFI 11B

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|-----|----------|-------|--------|--------|--------|--------|--------|-------|---------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 2389.605 | 4.34 | 28.52 | 40.97 | 57.27 | 49.16 | 54.00 | -4.84 | Average |
| 2 | 2390.000 | 4.34 | 28.52 | 40.97 | 57.22 | 49.11 | 54.00 | -4.89 | Average |
| 3 * | 2412.000 | 4.38 | 28.56 | 40.98 | 107.87 | 99.83 | 54.00 | 45.83 | Average |
| | | | | | | | | | |



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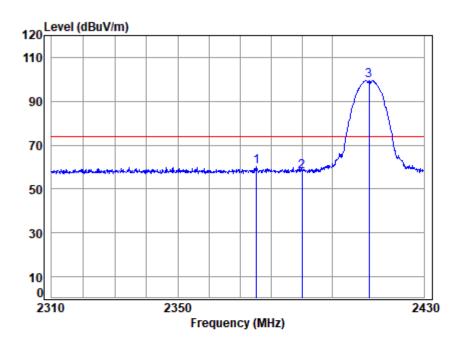
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Report No.: SZEM200700629203

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Mode:g; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 06292CR/06293CR : 2412 Band edge Mode Note : 2.4G WIFI 11B

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|-----|----------|-------|--------|--------|--------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 2375.247 | 4.32 | 28.49 | 40.97 | 68.51 | 60.35 | 74.00 | -13.65 | Peak |
| 2 | 2390.000 | 4.34 | 28.52 | 40.97 | 66.19 | 58.08 | 74.00 | -15.92 | Peak |
| 3 * | 2412.000 | 4.38 | 28.56 | 40.98 | 107.47 | 99.43 | 74.00 | 25.43 | Peak |
| | | | | | | | | | |



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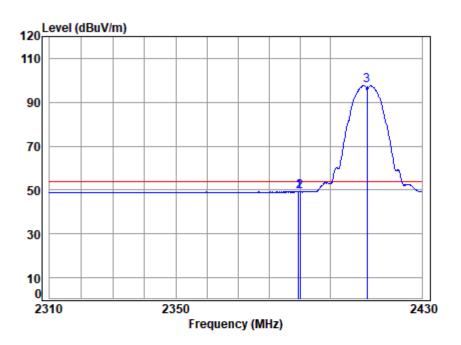
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Mode:g; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 06292CR/06293CR : 2412 Band edge Mode Note : 2.4G WIFI 11B

| | Freq | | | | | | Limit Line | | Remark | |
|-----|----------|------|-------|-------|--------|--------|---------------|-------|---------|--|
| - | MHz | dB | dB/m | ——dB | dBuV | dBuV/m | dBuV/m | dB | | |
| 1 | 2389.605 | 4.34 | 28.52 | 40.97 | 57.26 | 49.15 | 54.00 | -4.85 | Average | |
| 2 | 2390.000 | 4.34 | 28.52 | 40.97 | 57.18 | 49.07 | 54.00 | -4.93 | Average | |
| 3 * | 2412.000 | 4.38 | 28.56 | 40.98 | 105.63 | 97.59 | 54.00 | 43.59 | Average | |



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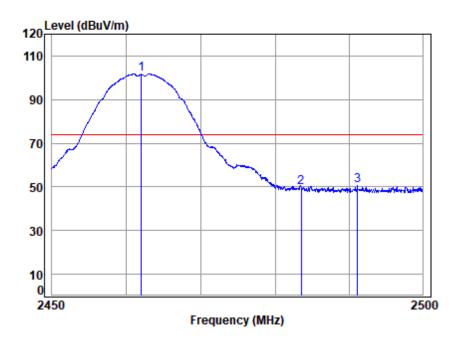
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Mode:g; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR : 2462 Band edge Mode : 2.4G WIFI 11B Note

| | _ | | TO WILL | 1 110 | | | | | | | |
|---|---|----------|---------|--------|--------|--------|--------|--------|--------|--------|--|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | | |
| 1 | * | 2462.000 | 4.46 | 28.64 | 41.00 | 109.60 | 101.70 | 74.00 | 27.70 | peak | |
| 2 | | 2483.500 | 4.49 | 28.67 | 41.01 | 57.69 | 49.84 | 74.00 | -24.16 | peak | |
| 3 | | 2491.127 | 4.51 | 28.69 | 41.01 | 58.39 | 50.58 | 74.00 | -23.42 | peak | |



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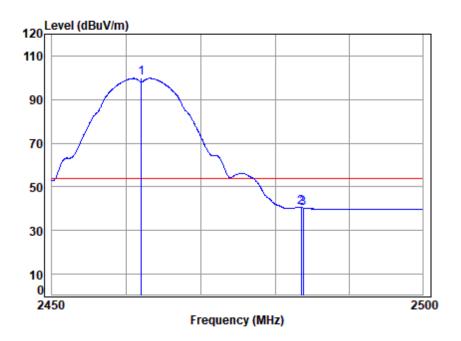
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Mode:g; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR Mode : 2462 Band edge : 2.4G WIFI 11B Note

| | Freq | | Ant Factor | | | | | | Remark |
|---|----------------------------------|------|---------------|-------|-------|--------|--------|--------|---------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 | 2462.000 2483.500 2483.790 | 4.49 | 28.67 | 41.01 | 48.41 | 40.56 | 54.00 | -13.44 | Average |



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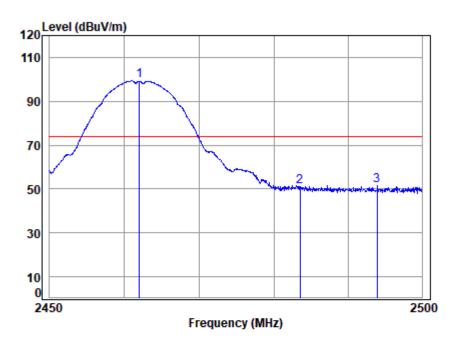
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Mode:g; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 06292CR/06293CR Job No : 2462 Band edge Mode Note : 2.4G WIFI 11B

| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
|---|---|----------|-------|--------|--------|--------|--------|--------|--------|--------|--|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | | |
| 1 | * | 2462.000 | 4.46 | 28.64 | 41.00 | 107.22 | 99.32 | 74.00 | 25.32 | peak | |
| 2 | | 2483.500 | 4.49 | 28.67 | 41.01 | 58.85 | 51.00 | 74.00 | -23.00 | peak | |
| 3 | | 2493.947 | 4.51 | 28.69 | 41.02 | 59.47 | 51.65 | 74.00 | -22.35 | peak | |
| | | | | | | | | | | | |



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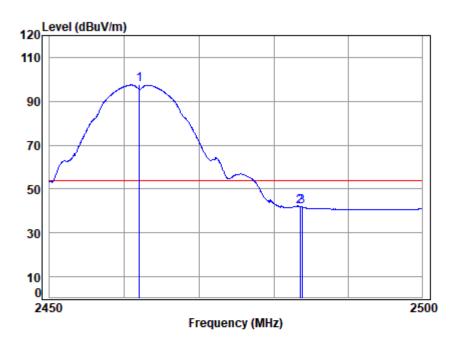
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Mode:g; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 06292CR/06293CR Job No : 2462 Band edge Mode Note : 2.4G WIFI 11B

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
|---|------------|-------|--------|--------|--------|--------|--------|--------|---------|--|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | |
| 1 | * 2462.000 | 4.46 | 28.64 | 41.00 | 105.33 | 97.43 | 54.00 | 43.43 | Average | |
| 2 | 2483.500 | 4.49 | 28.67 | 41.01 | 49.99 | 42.14 | 54.00 | -11.86 | Average | |
| 3 | 2483.790 | 4.49 | 28.67 | 41.01 | 49.65 | 41.80 | 54.00 | -12.20 | Average | |
| | | | | | | | | | | |



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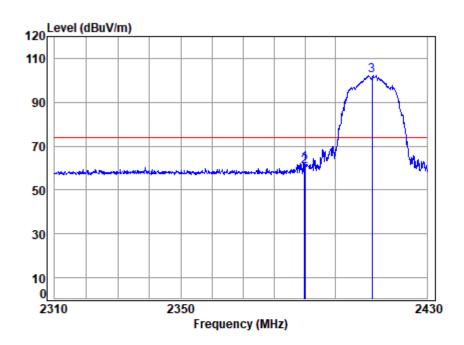
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Mode:g; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR : 2412 Band edge Mode Note : 2.4G WIFI 11G

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|-----|----------|-------|--------|--------|--------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| _ | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 2389.847 | 4.34 | 28.52 | 40.97 | 70.34 | 62.23 | 74.00 | -11.77 | peak |
| 2 | 2390.000 | 4.34 | 28.52 | 40.97 | 68.83 | 60.72 | 74.00 | -13.28 | peak |
| 3 * | 2412.000 | 4.38 | 28.56 | 40.98 | 110.22 | 102.18 | 74.00 | 28.18 | peak |
| | | | | | | | | | |



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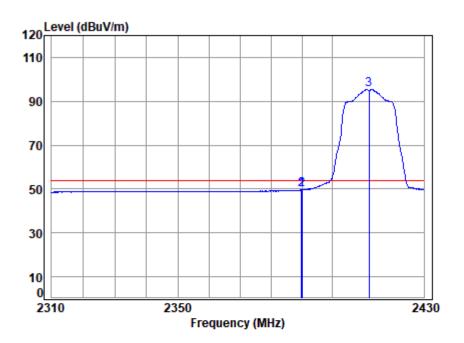
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Mode:g; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR : 2412 Band edge Mode Note : 2.4G WIFI 11G

| | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------------|-----------------------------|--|--|--|---|--|--|--|
| Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| - | | | | | | | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | , | | | | | | |
| 2389.847 | 4.34 | 28.52 | 40.97 | 57.79 | 49.68 | 54.00 | -4.32 | Average |
| | | | | | | | | _ |
| 2330.000 | 4.54 | 20.52 | 40.57 | 37.73 | 47.02 | 54.00 | -4.50 | Average |
| * 2412.000 | 4.38 | 28.56 | 40.98 | 103.39 | 95.35 | 54.00 | 41.35 | Average |
| | MHz 2389.847 2390.000 | Freq Loss MHz dB 2389.847 4.34 2390.000 4.34 | Freq Loss Factor MHz dB dB/m 2389.847 4.34 28.52 2390.000 4.34 28.52 | Freq Loss Factor Factor MHz dB dB/m dB 2389.847 4.34 28.52 40.97 2390.000 4.34 28.52 40.97 | Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2389.847 4.34 28.52 40.97 57.79 2390.000 4.34 28.52 40.97 57.73 | Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2389.847 4.34 28.52 40.97 57.79 49.68 2390.000 4.34 28.52 40.97 57.73 49.62 | Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2389.847 4.34 28.52 40.97 57.79 49.68 54.00 2390.000 4.34 28.52 40.97 57.73 49.62 54.00 | Cable Ant Preamp Read Limit Over Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 2389.847 4.34 28.52 40.97 57.79 49.68 54.00 -4.32 2390.000 4.34 28.52 40.97 57.73 49.62 54.00 -4.38 * 2412.000 4.38 28.56 40.98 103.39 95.35 54.00 41.35 |



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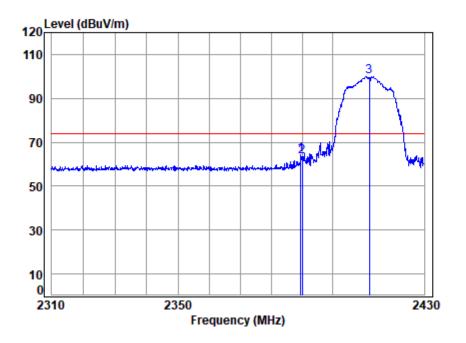
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Mode:g; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 06292CR/06293CR Mode : 2412 Band edge Note : 2.4G WIFI 11G

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|-----|----------|-------|--------|--------|--------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 2389.605 | 4.34 | 28.52 | 40.97 | 72.27 | 64.16 | 74.00 | -9.84 | Peak |
| 2 | 2390.000 | 4.34 | 28.52 | 40.97 | 71.40 | 63.29 | 74.00 | -10.71 | Peak |
| 3 * | 2412.000 | 4.38 | 28.56 | 40.98 | 108.08 | 100.04 | 74.00 | 26.04 | Peak |



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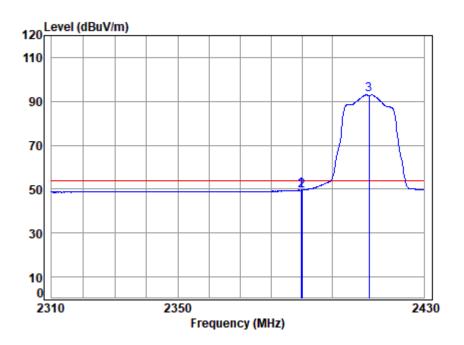
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Report No.: SZEM200700629203

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Mode:g; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

: 06292CR/06293CR Job No : 2412 Band edge Mode : 2.4G WIFI 11G Note

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
|-----|----------|-------|--------|--------|--------|--------|--------|-------|---------|--|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | |
| 1 | 2389.726 | 4.34 | 28.52 | 40.97 | 57.72 | 49.61 | 54.00 | -4.39 | Average | |
| 2 | 2390.000 | 4.34 | 28.52 | 40.97 | 57.61 | 49.50 | 54.00 | -4.50 | Average | |
| 3 * | 2412.000 | 4.38 | 28.56 | 40.98 | 101.09 | 93.05 | 54.00 | 39.05 | Average | |



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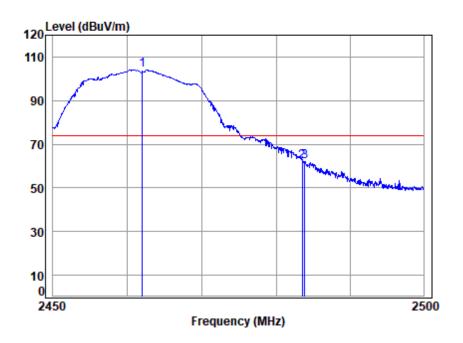
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Mode:g; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR : 2462 Band edge Mode : 2.4G WIFI 11G Note

| | Freq | | Ant Factor | | | | | | Remark |
|---|----------------------------------|------|---------------|-------|-------|--------|--------|--------|--------|
| - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 | 2462.000 2483.500 2483.840 | 4.49 | | 41.01 | 69.89 | 62.04 | 74.00 | -11.96 | peak |



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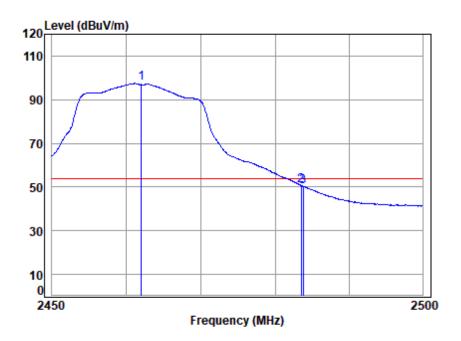
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Mode:g; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR : 2462 Band edge Mode : 2.4G WIFI 11G Note

| | Freq | | | | | | Limit Line | | Remark |
|---|----------------------------------|------|-------|-------|-------|--------|---------------|-------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 | 2462.000 2483.500 2483.790 | 4.49 | 28.67 | 41.01 | 58.64 | 50.79 | 54.00 | -3.21 | _ |



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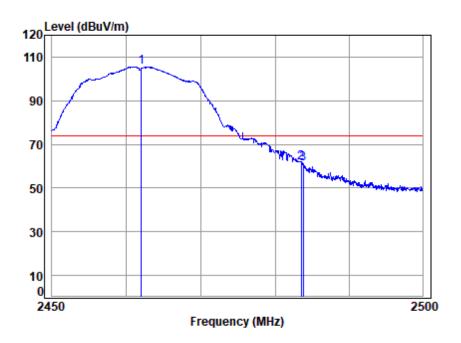
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Mode:g; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 06292CR/06293CR : 2462 Band edge Mode : 2.4G WIFI 11G Note

| | Freq | | | | | Level | | | Remark |
|---|----------------------------------|------|-------|-------|-------|--------|--------|--------|--------|
| - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 | 2462.000 2483.500 2483.790 | 4.49 | 28.67 | 41.01 | 69.56 | 61.71 | 74.00 | -12.29 | peak |



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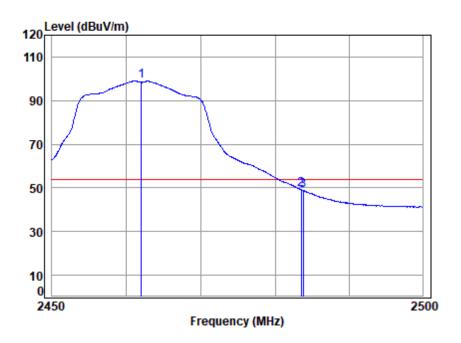
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Mode:g; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 06292CR/06293CR : 2462 Band edge Mode : 2.4G WIFI 11G Note

| | Freq | | | | | | Limit Line | | Remark |
|---|----------------------------------|------|-------|-------|-------|--------|---------------|-------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 | 2462.000 2483.500 2483.790 | 4.49 | 28.67 | 41.01 | 57.02 | 49.17 | 54.00 | -4.83 | _ |



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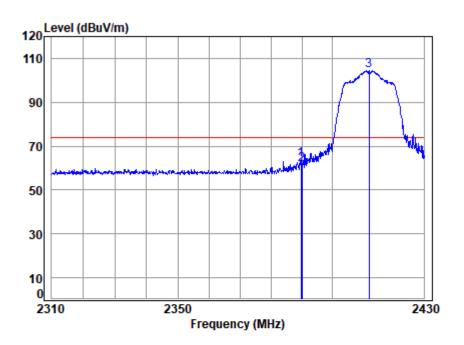
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Mode:g; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR : 2412 Band edge Mode Note : 2.4G WIFI 11N20

| | | | | _ | | | | | |
|-----|----------|-------|--------|--------|--------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 2389.726 | 4.34 | 28.52 | 40.97 | 71.95 | 63.84 | 74.00 | -10.16 | peak |
| 2 | 2390.000 | 4.34 | 28.52 | 40.97 | 69.89 | 61.78 | 74.00 | -12.22 | peak |
| 3 * | 2412.000 | 4.38 | 28.56 | 40.98 | 112.40 | 104.36 | 74.00 | 30.36 | peak |
| | | | | | | | | | |



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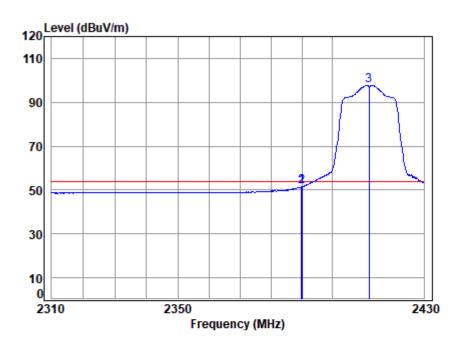
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Mode:g; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 06292CR/06293CR Job No : 2412 Band edge Mode Note : 2.4G WIFI 11N20

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
|-----|------------|-------|--------|--------|--------|--------|--------|-------|---------|--|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | |
| 1 | 2389.847 | 4.34 | 28.52 | 40.97 | 59.46 | 51.35 | 54.00 | -2.65 | Average | |
| 2 | 2390.000 | 4.34 | 28.52 | 40.97 | 59.45 | 51.34 | 54.00 | -2.66 | Average | |
| 3 3 | * 2412.000 | 4.38 | 28.56 | 40.98 | 105.87 | 97.83 | 54.00 | 43.83 | Average | |
| | | | | | | | | | | |



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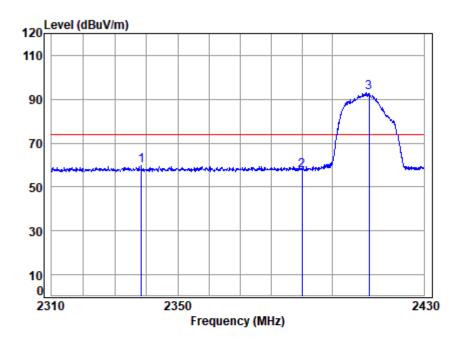
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Mode:g; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 06292CR/06293CR : 2412 Band edge Mode Note : 2.4G WIFI 11N20

| | | | | | | | Limit | | | |
|-----|----------|------|--------|--------|--------|--------|--------|--------|--------|--|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| 1 | 2338.367 | 4.26 | 28.43 | 40.95 | 67.87 | 59.61 | 74.00 | -14.39 | Peak | |
| 2 | 2390.000 | 4.34 | 28.52 | 40.97 | 65.82 | 57.71 | 74.00 | -16.29 | Peak | |
| 3 * | 2412.000 | 4.38 | 28.56 | 40.98 | 100.91 | 92.87 | 74.00 | 18.87 | Peak | |



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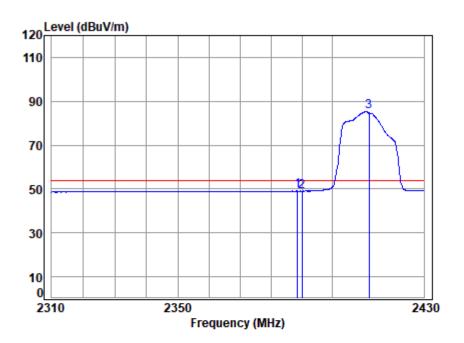
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Mode:g; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 06292CR/06293CR : 2412 Band edge Mode Note : 2.4G WIFI 11N20

| | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|----------|-----------------------------|--|--|--|---|--|--|---|
| Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | |
| 2388.516 | 4.34 | 28.52 | 40.97 | 57.21 | 49.10 | 54.00 | -4.90 | Average |
| 2390.000 | 4.34 | 28.52 | 40.97 | 57.14 | 49.03 | 54.00 | -4.97 | Average |
| 2412.000 | 4.38 | 28.56 | 40.98 | 93.33 | 85.29 | 54.00 | 31.29 | Average |
| | MHz 2388.516 2390.000 | Freq Loss MHz dB 2388.516 4.34 2390.000 4.34 | Freq Loss Factor MHz dB dB/m 2388.516 4.34 28.52 2390.000 4.34 28.52 | Freq Loss Factor Factor MHz dB dB/m dB 2388.516 4.34 28.52 40.97 2390.000 4.34 28.52 40.97 | Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2388.516 4.34 28.52 40.97 57.21 2390.000 4.34 28.52 40.97 57.14 | Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2388.516 4.34 28.52 40.97 57.21 49.10 2390.000 4.34 28.52 40.97 57.14 49.03 | Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2388.516 4.34 28.52 40.97 57.21 49.10 54.00 2390.000 4.34 28.52 40.97 57.14 49.03 54.00 | Cable Ant Preamp Read Limit Over Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 2388.516 4.34 28.52 40.97 57.21 49.10 54.00 -4.90 2390.000 4.34 28.52 40.97 57.14 49.03 54.00 -4.97 2412.000 4.38 28.56 40.98 93.33 85.29 54.00 31.29 |



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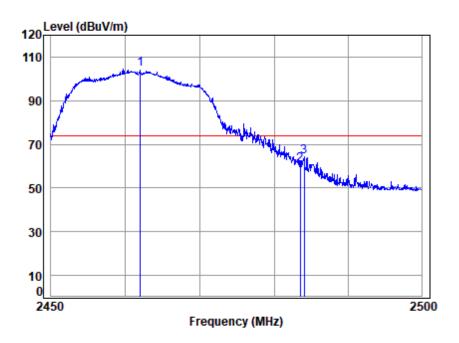
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Mode:g; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR : 2462 Band edge Mode : 2.4G WIFI 11N20 Note

| | Freq | | Ant Factor | | | | | | Remark |
|---|----------------------------------|------|---------------|-------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 | 2462.000 2483.500 2484.091 | 4.49 | 28.67 | 41.01 | 68.57 | 60.72 | 74.00 | -13.28 | peak |



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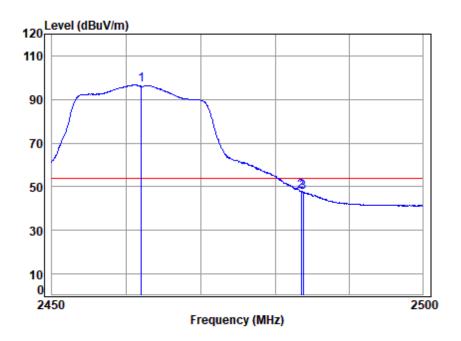
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Mode:g; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 06292CR/06293CR Job No Mode : 2462 Band edge : 2.4G WIFI 11N20 Note

| 0.0 | | | | | | | | | |
|-----|----------|-------|--------|--------|--------|--------|--------|-------|---------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| _ | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 * | 2462.000 | 4.46 | 28.64 | 41.00 | 104.57 | 96.67 | 54.00 | 42.67 | Average |
| 2 | 2483.500 | 4.49 | 28.67 | 41.01 | 55.66 | 47.81 | 54.00 | -6.19 | Average |
| 3 | 2483.790 | 4.49 | 28.67 | 41.01 | 55.42 | 47.57 | 54.00 | -6.43 | Average |



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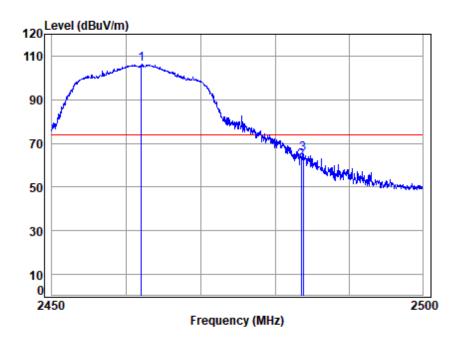
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Mode:g; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 06292CR/06293CR : 2462 Band edge Mode : 2.4G WIFI 11N20 Note

| | Freq | | | | | Level | | | Remark |
|---|----------------------------------|------|-------|-------|-------|--------|--------|--------|--------|
| - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 | 2462.000 2483.500 2483.790 | 4.49 | 28.67 | 41.01 | 69.88 | 62.03 | 74.00 | -11.97 | peak |



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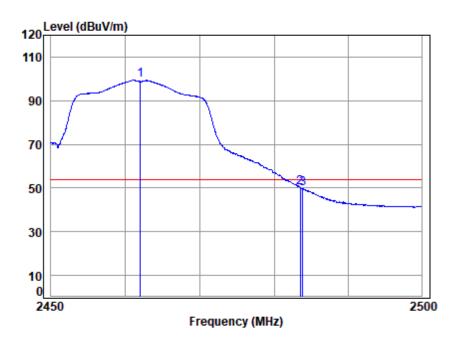
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Mode:g; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 06292CR/06293CR Mode : 2462 Band edge : 2.4G WIFI 11N20 Note

| OLC | . 2 | TO WILL | 1 11112 | | | | | | | |
|-----|----------|---------|---------|--------|--------|--------|--------|-------|---------|--|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | |
| 1 * | 2462.000 | 4.46 | 28.64 | 41.00 | 107.26 | 99.36 | 54.00 | 45.36 | Average | |
| 2 | 2483.500 | 4.49 | 28.67 | 41.01 | 58.10 | 50.25 | 54.00 | -3.75 | Average | |
| 3 | 2483.840 | 4.49 | 28.67 | 41.01 | 57.72 | 49.87 | 54.00 | -4.13 | Average | |



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7.8 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6 Measurement Distance: 3m (Above 1GHz) and 10m (Below 1GHz)

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case:

f:TX mode Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20); Only the data of worst case is recorded in the report.

g:Charge + TX mode Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the

report.

The worst case for final test:

g:Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the



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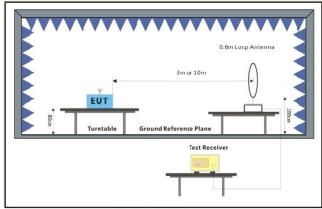
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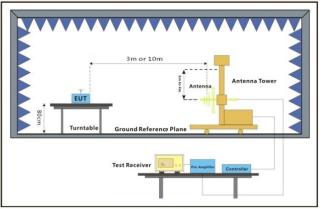


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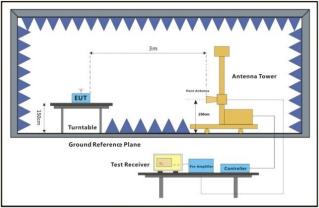
7.8.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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7.8.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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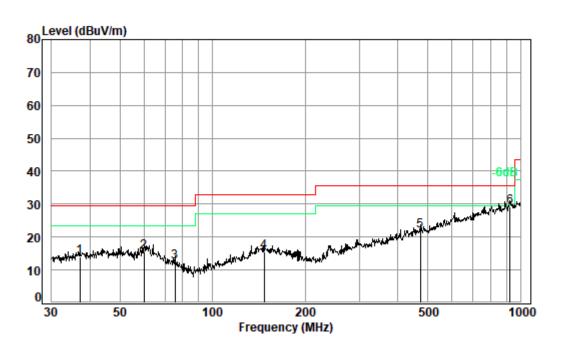


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30MHz~1GHz QP value:

Mode: g; Polarization: Horizontal;



Condition: 10m HORIZONTAL

Job No. : 06292CR

Test Mode: g

| | | Ant | Preamp | Cable | Read | | Limit | 0ver | |
|------|---------|--------|--------|-------|-------|--------|--------|--------|--------|
| | Freq | Factor | Factor | Loss | Level | Level | Line | Limit | Remark |
| _ | MHz | dB/m | ——dB | dB | dBuV | dBuV/m | dBuV/m | ——dB | |
| | | , | | | | | | | |
| 1 | 37.155 | 19.79 | 32.41 | 0.90 | 25.63 | 13.91 | 29.50 | -15.59 | QP |
| 2 | 59.859 | 19.14 | 32.42 | 1.04 | 27.90 | 15.66 | 29.50 | -13.84 | QP |
| 3 | 75.446 | 16.04 | 32.37 | 1.12 | 27.61 | 12.40 | 29.50 | -17.10 | QP |
| 4 | 147.404 | 20.07 | 32.30 | 1.46 | 26.39 | 15.62 | 33.00 | -17.38 | QP |
| 5 | 473.835 | 23.70 | 32.38 | 2.81 | 27.69 | 21.82 | 35.60 | -13.78 | QP |
| 6 pp | 925.756 | 29.80 | 31.38 | 3.45 | 27.25 | 29.12 | 35.60 | -6.48 | QP |



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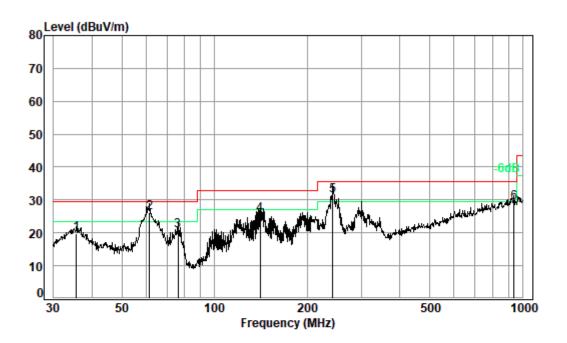
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Mode:g: Polarization: Vertical



Condition: 10m VERTICAL

Job No. : 06292CR

Test Mode: g

| | Freq | | Preamp Factor | | | | | | Remark |
|------|---------|-------|------------------|------|-------|--------|--------|-------|--------|
| - | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 35.624 | 19.48 | 32.41 | 0.89 | 31.85 | 19.81 | 29.50 | -9.69 | QP |
| 2 pp | 61.562 | 19.10 | 32.41 | 1.05 | 38.35 | 26.09 | 29.50 | -3.41 | QP |
| 3 | 76.244 | 15.84 | 32.37 | 1.13 | 36.23 | 20.83 | 29.50 | -8.67 | QP |
| 4 | 140.835 | 19.74 | 32.30 | 1.44 | 36.65 | 25.53 | 33.00 | -7.47 | QP |
| 5 | 242.525 | 17.88 | 32.30 | 1.91 | 43.92 | 31.41 | 35.60 | -4.19 | QP |
| 6 | 938.833 | 29.80 | 31.31 | 3.47 | 27.34 | 29.30 | 35.60 | -6.30 | OP |



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m; L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

| The level at office distance is below. | | | | | | | | | | | |
|--|----------------------------|-----------------------|----------------------|---------------------------|------------------------|-------------|----------------------|--|--|--|--|
| Frequency (MHz) | Level @ 10m (dBuV/m) | Level @ 10m (uV/m) | Level @ 3m (uV/m) | Level @ 3m (dBuV/m) | Limit @ 3m (dBuV/m) | Margin (dB) | Ant. Polarization | | | | |
| 35.62 | 19.81 | 9.78 | 32.61 | 30.27 | 40.00 | -9.73 | V | | | | |
| 61.56 | 26.09 | 20.16 | 67.20 | 36.55 | 40.00 | -3.45 | V | | | | |
| 76.24 | 20.83 | 11.00 | 36.68 | 31.29 | 40.00 | -8.71 | V | | | | |
| 140.84 | 25.53 | 18.90 | 63.01 | 35.99 | 43.50 | -7.51 | V | | | | |
| 242.53 | 31.41 | 37.20 | 123.99 | 41.87 | 46.00 | -4.13 | V | | | | |
| 938.83 | 29.30 | 29.17 | 97.25 | 39.76 | 46.00 | -6.24 | V | | | | |
| 37.16 | 13.91 | 4.96 | 16.53 | 24.37 | 40.00 | -15.63 | Н | | | | |
| 59.86 | 15.66 | 6.07 | 20.22 | 26.12 | 40.00 | -13.88 | Н | | | | |
| 75.45 | 12.40 | 4.17 | 13.90 | 22.86 | 40.00 | -17.14 | Н | | | | |
| 147.40 | 15.62 | 6.04 | 20.13 | 26.08 | 43.50 | -17.42 | Н | | | | |
| 473.84 | 21.82 | 12.33 | 41.10 | 32.28 | 46.00 | -13.72 | Н | | | | |
| 925.76 | 29.12 | 28.58 | 95.25 | 39.58 | 46.00 | -6.42 | Н | | | | |



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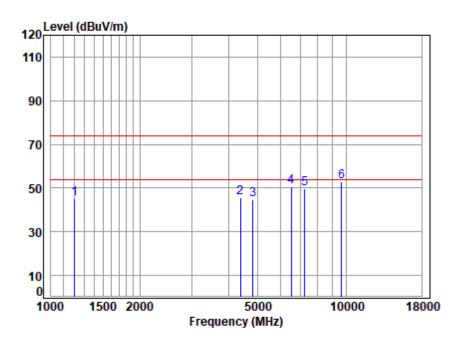


Report No.: SZEM200700629203

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Above 1GHz

Mode:g; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR Mode : 2412 TX RSE

: 2.4G WIFI 11B

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m 1203.199 2.77 24.60 40.29 58.20 45.28 74.00 -28.72 peak 2 4379.699 42.46 47.88 45.46 74.00 -28.54 peak 6.65 33.39 7.12 34.00 42.78 46.53 44.87 74.00 -29.13 peak 3 4824.000 4 6526.373 8.29 35.62 41.94 48.49 50.46 74.00 -23.54 peak 46.26 49.56 74.00 -24.44 peak 7236.000 8.77 36.09 41.56 9648.000 10.79 37.69 38.51 42.81 52.78 74.00 -21.22 peak



Note

1

5

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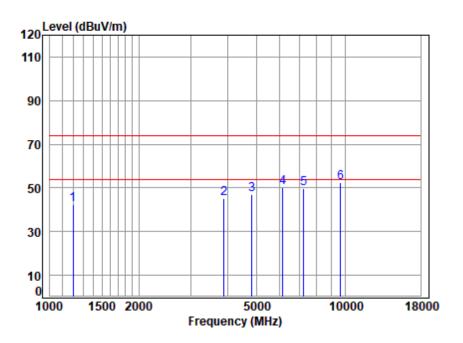
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Mode:g; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 06292CR/06293CR

Mode : 2412 TX RSE : 2.4G WIFI 11B Note

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|----------|-------|--------|--------|-------------|-------------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1199.726 | 2.76 | 24.59 | 40.28 | 55.23 | 42.30 | 74.00 | -31.70 | peak |
| 2 | 3890.255 | | | | | | | | • |
| 3 | 4824.000 | 7.12 | 34.00 | 42.78 | 48.85 | 47.19 | 74.00 | -26.81 | peak |
| 4 | 6142.019 | 8.27 | 35.25 | 42.16 | 48.92 | 50.28 | 74.00 | -23.72 | peak |
| 5 | 7236.000 | 8.77 | 36.09 | 41.56 | 46.52 | 49.82 | 74.00 | -24.18 | peak |
| 6 | 9648.000 | 10.79 | 37.69 | 38.51 | 42.31 | 52.28 | 74.00 | -21.72 | peak |



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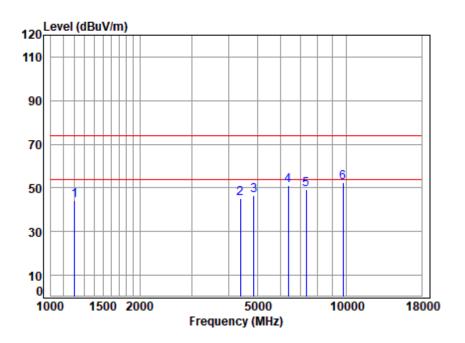
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Mode:g; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR Mode : 2437 TX RSE : 2.4G WIFI 11B Note

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1203.199 | 2.77 | 24.60 | 40.29 | 57.24 | 44.32 | 74.00 | -29.68 | peak |
| 2 | 4379.699 | 6.65 | 33.39 | 42.46 | 47.55 | 45.13 | 74.00 | -28.87 | peak |
| 3 | 4874.000 | 7.17 | 34.05 | 42.82 | 48.31 | 46.71 | 74.00 | -27.29 | peak |
| 4 | 6377.195 | 8.28 | 35.48 | 42.02 | 49.34 | 51.08 | 74.00 | -22.92 | peak |
| 5 | 7311.000 | 8.84 | 36.15 | 41.53 | 45.78 | 49.24 | 74.00 | -24.76 | peak |
| 6 | 9748.000 | 10.76 | 37.75 | 38.37 | 42.13 | 52.27 | 74.00 | -21.73 | peak |



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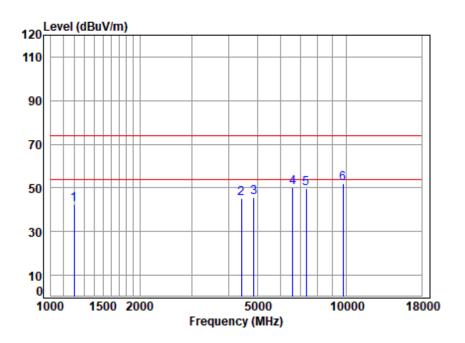
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Report No.: SZEM200700629203

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Mode:g; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 06292CR/06293CR Mode : 2437 TX RSE

: 2.4G WIFI 11B Note

| occ | . 2 | TO WIT | 1 110 | | | | | | |
|-----|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | 70. | | | | | | 7 | | |
| 1 | 1199.726 | 2./6 | 24.59 | 40.28 | 55.14 | 42.21 | /4.00 | -31./9 | peak |
| 2 | 4417.841 | 6.68 | 33.46 | 42.49 | 47.62 | 45.27 | 74.00 | -28.73 | peak |
| 3 | 4874.000 | 7.17 | 34.05 | 42.82 | 47.05 | 45.45 | 74.00 | -28.55 | peak |
| 4 | 6583.209 | 8.32 | 35.65 | 41.91 | 48.18 | 50.24 | 74.00 | -23.76 | peak |
| 5 | 7311.000 | 8.84 | 36.15 | 41.53 | 46.26 | 49.72 | 74.00 | -24.28 | peak |
| 6 | 9748.000 | 10.76 | 37.75 | 38.37 | 41.78 | 51.92 | 74.00 | -22.08 | peak |



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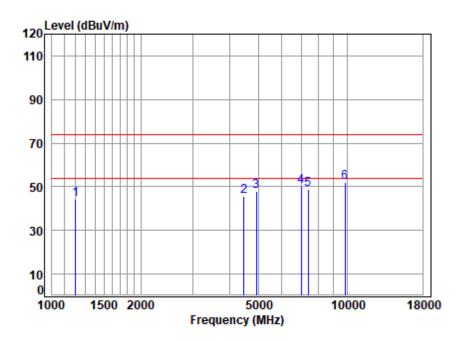
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Report No.: SZEM200700629203

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Mode:g; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR Mode : 2462 TX RSE

Note : 2.4G WIFI 11B

| 000 | . 2 | TO WILL | 1 110 | | | | | | |
|-----|----------|---------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1203.199 | 2.77 | 24.60 | 40.29 | 57.20 | 44.28 | 74.00 | -29.72 | peak |
| 2 | 4469.214 | 6.73 | 33.55 | 42.53 | 47.83 | 45.58 | 74.00 | -28.42 | peak |
| 3 | 4924.000 | 7.22 | 34.11 | 42.85 | 49.35 | 47.83 | 74.00 | -26.17 | peak |
| 4 | 6995.172 | 8.54 | 35.90 | 41.69 | 47.28 | 50.03 | 74.00 | -23.97 | peak |
| 5 | 7386.000 | 8.91 | 36.21 | 41.49 | 45.29 | 48.92 | 74.00 | -25.08 | peak |
| 6 | 9848.000 | 10.73 | 37.81 | 38.22 | 41.57 | 51.89 | 74.00 | -22.11 | peak |



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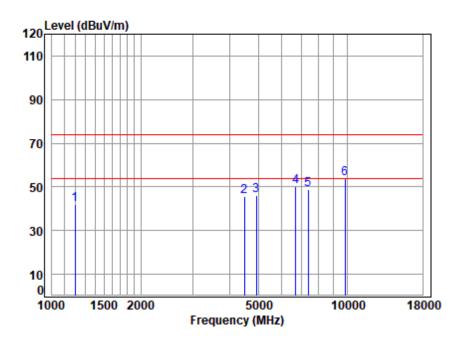
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Report No.: SZEM200700629203

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Mode:g; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL Job No : 06292CR/06293CR

Mode : 2462 TX RSE : 2.4G WIFI 11B Note

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | | | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|--|--|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | | |
| | | | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | | |
| | | | | | | | | | | | |
| 1 | 1199.726 | 2.76 | 24.59 | 40.28 | 54.84 | 41.91 | 74.00 | -32.09 | peak | | |
| 2 | 4495.125 | 6.76 | 33.59 | 42.55 | 47.71 | 45.51 | 74.00 | -28.49 | peak | | |
| 3 | 4924.000 | 7.22 | 34.11 | 42.85 | 47.41 | 45.89 | 74.00 | -28.11 | peak | | |
| 4 | 6698.373 | 8.39 | 35.72 | 41.84 | 47.88 | 50.15 | 74.00 | -23.85 | peak | | |
| 5 | 7386.000 | 8.91 | 36.21 | 41.49 | 45.23 | 48.86 | 74.00 | -25.14 | peak | | |
| 6 | 9848.000 | 10.73 | 37.81 | 38.22 | 43.34 | 53.66 | 74.00 | -20.34 | peak | | |



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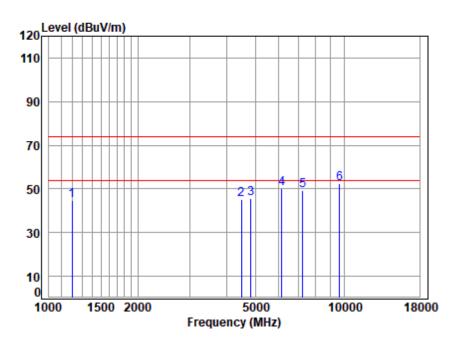
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Report No.: SZEM200700629203

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Mode:g; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR Mode : 2412 TX RSE : 2.4G WIFI 11G Note

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1199.726 | 2.76 | 24.59 | 40.28 | 57.74 | 44.81 | 74.00 | -29.19 | peak |
| 2 | 4482.150 | 6.74 | 33.57 | 42.54 | 47.51 | 45.28 | 74.00 | -28.72 | peak |
| 3 | 4824.000 | 7.12 | 34.00 | 42.78 | 47.18 | 45.52 | 74.00 | -28.48 | peak |
| 4 | 6142.019 | 8.27 | 35.25 | 42.16 | 48.74 | 50.10 | 74.00 | -23.90 | peak |
| 5 | 7236.000 | 8.77 | 36.09 | 41.56 | 46.12 | 49.42 | 74.00 | -24.58 | peak |
| 6 | 9648.000 | 10.79 | 37.69 | 38.51 | 42.70 | 52.67 | 74.00 | -21.33 | peak |



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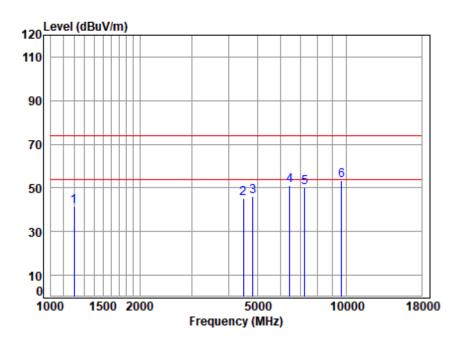
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Report No.: SZEM200700629203

Page: 67 of 113

Mode:g; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 06292CR/06293CR

Mode : 2412 TX RSE Note : 2.4G WIFI 11G

| 0.0 | | | | | | | | | |
|-----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1196.264 | 2.76 | 24.57 | 40.28 | 54.56 | 41.61 | 74.00 | -32.39 | peak |
| 2 | 4482.150 | 6.74 | 33.57 | 42.54 | 47.56 | 45.33 | 74.00 | -28.67 | peak |
| 3 | 4824.000 | 7.12 | 34.00 | 42.78 | 47.68 | 46.02 | 74.00 | -27.98 | peak |
| 4 | 6451.353 | 8.28 | 35.55 | 41.98 | 49.15 | 51.00 | 74.00 | -23.00 | peak |
| 5 | 7236.000 | 8.77 | 36.09 | 41.56 | 46.67 | 49.97 | 74.00 | -24.03 | peak |
| 6 | 9648.000 | 10.79 | 37.69 | 38.51 | 43.20 | 53.17 | 74.00 | -20.83 | peak |



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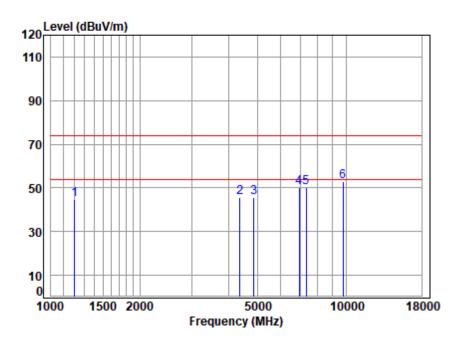
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Report No.: SZEM200700629203

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Mode:g; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR : 2437 TX RSE Mode

: 2.4G WIFI 11G

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|-----------|-------|--------|--------|-------|------------|----------------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | dD: \// /m | dD: \/ / / / / | | |
| | MHz | dB | ub/m | dB | abuv | ubuv/m | ubuv/m | dB | |
| 1 | 1203.199 | 2.77 | 24.60 | 40.29 | 57.80 | 44.88 | 74.00 | -29.12 | peak |
| 2 | 4367.058 | 6.64 | 33.37 | 42.45 | 48.10 | 45.66 | 74.00 | -28.34 | peak |
| 3 | 4874.000 | 7.17 | 34.05 | 42.82 | 47.21 | 45.61 | 74.00 | -28.39 | peak |
| 4 | 6934.778 | 8.51 | 35.86 | 41.72 | 47.65 | 50.30 | 74.00 | -23.70 | peak |
| 5 | 7311.000 | 8.84 | 36.15 | 41.53 | 46.95 | 50.41 | 74.00 | -23.59 | peak |
| 6 | 97/18 000 | 10 76 | 37 75 | 38 37 | 12 62 | 52 76 | 7/ 00 | -21 24 | neak |



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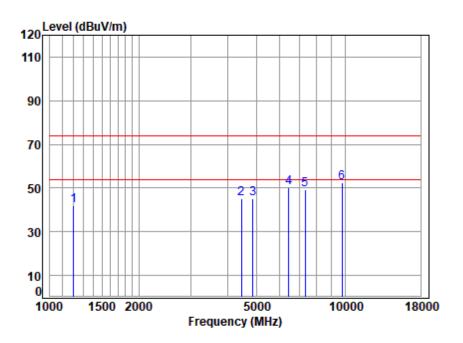
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Report No.: SZEM200700629203

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Mode:g; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 06292CR/06293CR Mode : 2437 TX RSE : 2.4G WIFI 11G Note

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | | | | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|--|--|--|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | | | |
| | | | | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | | | |
| | | | | | | | | | | | | |
| 1 | 1203.199 | 2.77 | 24.60 | 40.29 | 54.74 | 41.82 | 74.00 | -32.18 | peak | | | |
| 2 | 4456.315 | 6.72 | 33.53 | 42.52 | 47.26 | 44.99 | 74.00 | -29.01 | peak | | | |
| 3 | 4874.000 | 7.17 | 34.05 | 42.82 | 46.91 | 45.31 | 74.00 | -28.69 | peak | | | |
| 4 | 6451.353 | 8.28 | 35.55 | 41.98 | 48.36 | 50.21 | 74.00 | -23.79 | peak | | | |
| 5 | 7311.000 | 8.84 | 36.15 | 41.53 | 45.65 | 49.11 | 74.00 | -24.89 | peak | | | |
| 6 | 9748.000 | 10.76 | 37.75 | 38.37 | 42.15 | 52.29 | 74.00 | -21.71 | peak | | | |



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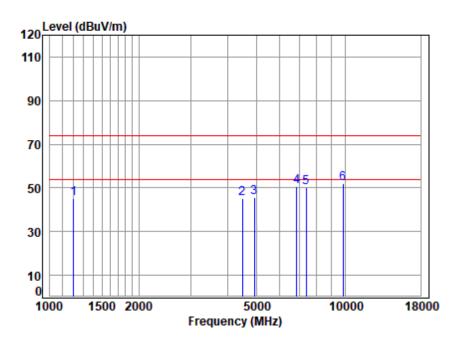
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Report No.: SZEM200700629203

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Mode:g; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR Mode : 2462 TX RSE

: 2.4G WIFI 11G

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1203.199 | 2.77 | 24.60 | 40.29 | 57.93 | 45.01 | 74.00 | -28.99 | peak |
| 2 | 4482.150 | 6.74 | 33.57 | 42.54 | 47.50 | 45.27 | 74.00 | -28.73 | peak |
| 3 | 4924.000 | 7.22 | 34.11 | 42.85 | 47.15 | 45.63 | 74.00 | -28.37 | peak |
| 4 | 6855.063 | 8.47 | 35.82 | 41.76 | 47.98 | 50.51 | 74.00 | -23.49 | peak |
| 5 | 7386.000 | 8.91 | 36.21 | 41.49 | 46.34 | 49.97 | 74.00 | -24.03 | peak |
| 6 | 9848.000 | 10.73 | 37.81 | 38.22 | 41.70 | 52.02 | 74.00 | -21.98 | peak |



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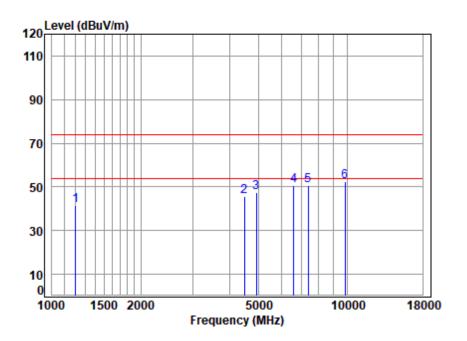
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Report No.: SZEM200700629203

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Mode:g; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 06292CR/06293CR Mode : 2462 TX RSE

: 2.4G WIFI 11G Note

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1203.199 | 2.77 | 24.60 | 40.29 | 54.58 | 41.66 | 74.00 | -32.34 | peak |
| 2 | 4482.150 | 6.74 | 33.57 | 42.54 | 47.68 | 45.45 | 74.00 | -28.55 | peak |
| 3 | 4924.000 | 7.22 | 34.11 | 42.85 | 48.77 | 47.25 | 74.00 | -26.75 | peak |
| 4 | 6583.209 | 8.32 | 35.65 | 41.91 | 48.66 | 50.72 | 74.00 | -23.28 | peak |
| 5 | 7386.000 | 8.91 | 36.21 | 41.49 | 46.81 | 50.44 | 74.00 | -23.56 | peak |
| 6 | 9848.000 | 10.73 | 37.81 | 38.22 | 42.18 | 52.50 | 74.00 | -21.50 | peak |



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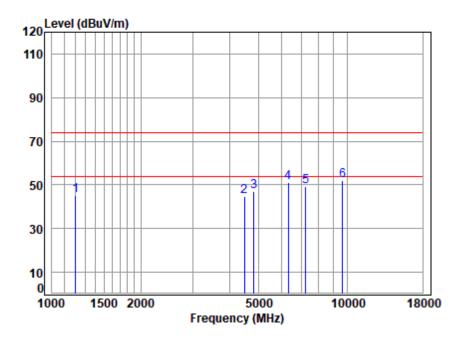
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Report No.: SZEM200700629203

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Mode:g; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR Mode : 2412 TX RSE

: 2.4G WIFI 11N20 Note

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1203.199 | 2.77 | 24.60 | 40.29 | 57.94 | 45.02 | 74.00 | -28.98 | peak |
| 2 | 4482.150 | 6.74 | 33.57 | 42.54 | 47.10 | 44.87 | 74.00 | -29.13 | peak |
| 3 | 4824.000 | 7.12 | 34.00 | 42.78 | 48.71 | 47.05 | 74.00 | -26.95 | peak |
| 4 | 6322.136 | 8.27 | 35.43 | 42.05 | 49.63 | 51.28 | 74.00 | -22.72 | peak |
| 5 | 7236.000 | 8.77 | 36.09 | 41.56 | 45.80 | 49.10 | 74.00 | -24.90 | peak |
| 6 | 9648.000 | 10.79 | 37.69 | 38.51 | 42.09 | 52.06 | 74.00 | -21.94 | peak |



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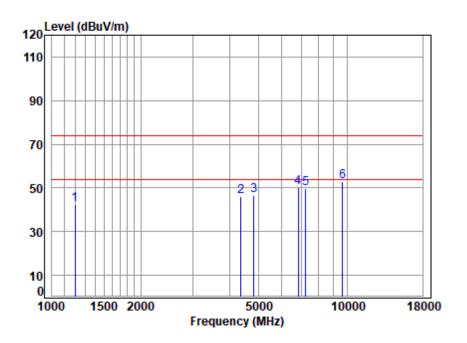
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Mode:g; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 06292CR/06293CR

Mode : 2412 TX RSE

: 2.4G WIFI 11N20 Note

| | | | | _ | | | | | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | 4400 705 | 0.76 | 04.50 | 40.00 | | 40.34 | 74.00 | 24 60 | |
| 1 | 1199.726 | 2./6 | 24.59 | 40.28 | 55.24 | 42.31 | /4.00 | -31.69 | peak |
| 2 | 4367.058 | 6.64 | 33.37 | 42.45 | 48.58 | 46.14 | 74.00 | -27.86 | peak |
| 3 | 4824.000 | 7.12 | 34.00 | 42.78 | 48.18 | 46.52 | 74.00 | -27.48 | peak |
| 4 | 6835.278 | 8.46 | 35.80 | 41.77 | 47.76 | 50.25 | 74.00 | -23.75 | peak |
| 5 | 7236.000 | 8.77 | 36.09 | 41.56 | 46.23 | 49.53 | 74.00 | -24.47 | peak |
| 6 | 9648.000 | 10.79 | 37.69 | 38.51 | 42.97 | 52.94 | 74.00 | -21.06 | peak |



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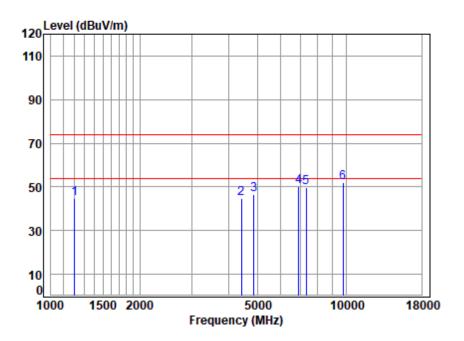
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Report No.: SZEM200700629203

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Mode:g; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR : 2437 TX RSE Mode

: 2.4G WIFI 11N20 Note

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1203.199 | 2.77 | 24.60 | 40.29 | 57.62 | 44.70 | 74.00 | -29.30 | peak |
| 2 | 4417.841 | 6.68 | 33.46 | 42.49 | 47.13 | 44.78 | 74.00 | -29.22 | peak |
| 3 | 4874.000 | 7.17 | 34.05 | 42.82 | 48.21 | 46.61 | 74.00 | -27.39 | peak |
| 4 | 6914.763 | 8.50 | 35.85 | 41.73 | 47.68 | 50.30 | 74.00 | -23.70 | peak |
| 5 | 7311.000 | 8.84 | 36.15 | 41.53 | 46.22 | 49.68 | 74.00 | -24.32 | peak |
| 6 | 9748.000 | 10.76 | 37.75 | 38.37 | 41.67 | 51.81 | 74.00 | -22.19 | peak |



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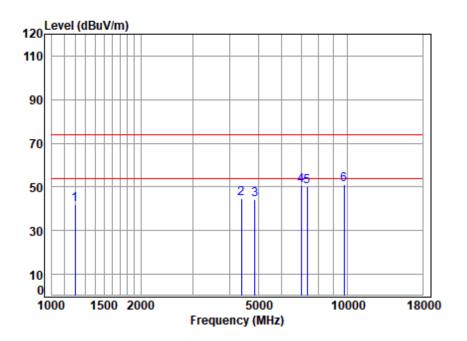
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Mode:g; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 06292CR/06293CR

Mode : 2437 TX RSE

: 2.4G WIFI 11N20 Note

| | | | | _ | | | | | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1199.726 | 2.76 | 24.59 | 40.28 | 54.73 | 41.80 | 74.00 | -32.20 | peak |
| 2 | 4379.699 | 6.65 | 33.39 | 42.46 | 47.00 | 44.58 | 74.00 | -29.42 | peak |
| 3 | 4874.000 | 7.17 | 34.05 | 42.82 | 46.07 | 44.47 | 74.00 | -29.53 | peak |
| 4 | 6974.982 | 8.53 | 35.89 | 41.70 | 47.83 | 50.55 | 74.00 | -23.45 | peak |
| 5 | 7311.000 | 8.84 | 36.15 | 41.53 | 46.66 | 50.12 | 74.00 | -23.88 | peak |
| 6 | 9748.000 | 10.76 | 37.75 | 38.37 | 40.86 | 51.00 | 74.00 | -23.00 | peak |



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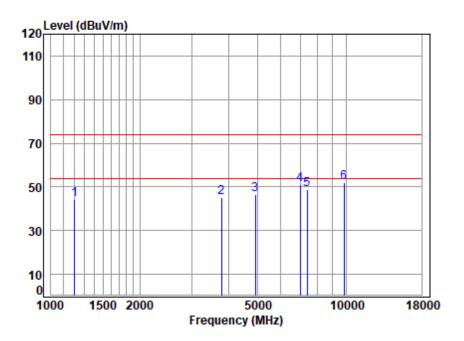
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Mode:g; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 06292CR/06293CR Mode : 2462 TX RSE

: 2.4G WIFI 11N20 Note

| occ | . 2 | TO WIT | 1 1111/21 | | | | | | |
|-----|----------|--------|-----------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1203.199 | 2.77 | 24.60 | 40.29 | 57.35 | 44.43 | 74.00 | -29.57 | peak |
| 2 | 3790.361 | 5.97 | 32.30 | 41.98 | 48.84 | 45.13 | 74.00 | -28.87 | peak |
| 3 | 4924.000 | 7.22 | 34.11 | 42.85 | 48.06 | 46.54 | 74.00 | -27.46 | peak |
| 4 | 6995.172 | 8.54 | 35.90 | 41.69 | 48.47 | 51.22 | 74.00 | -22.78 | peak |
| 5 | 7386.000 | 8.91 | 36.21 | 41.49 | 45.18 | 48.81 | 74.00 | -25.19 | peak |
| 6 | 9848.000 | 10.73 | 37.81 | 38.22 | 41.67 | 51.99 | 74.00 | -22.01 | peak |



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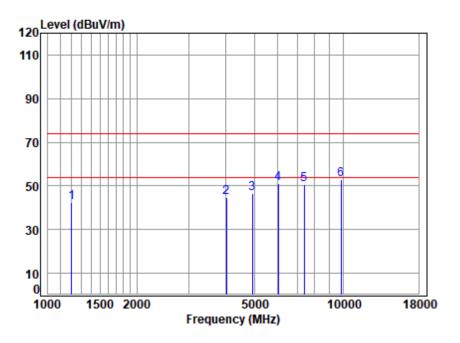
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Mode:g; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 06292CR/06293CR

: 2462 TX RSE Mode

: 2.4G WIFI 11N20 Note

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1203.199 | 2.77 | 24.60 | 40.29 | 55.30 | 42.38 | 74.00 | -31.62 | peak |
| 2 | 4027.554 | 6.31 | 32.75 | 42.18 | 47.91 | 44.79 | 74.00 | -29.21 | peak |
| 3 | 4924.000 | 7.22 | 34.11 | 42.85 | 48.26 | 46.74 | 74.00 | -27.26 | peak |
| 4 | 6018.999 | 8.26 | 35.12 | 42.23 | 49.85 | 51.00 | 74.00 | -23.00 | peak |
| 5 | 7386.000 | 8.91 | 36.21 | 41.49 | 47.23 | 50.86 | 74.00 | -23.14 | peak |
| 6 | 9848.000 | 10.73 | 37.81 | 38.22 | 42.47 | 52.79 | 74.00 | -21.21 | peak |



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Photographs 8

Test Setup 8.1

Please refer to setup photo.

8.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.



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Appendix 9

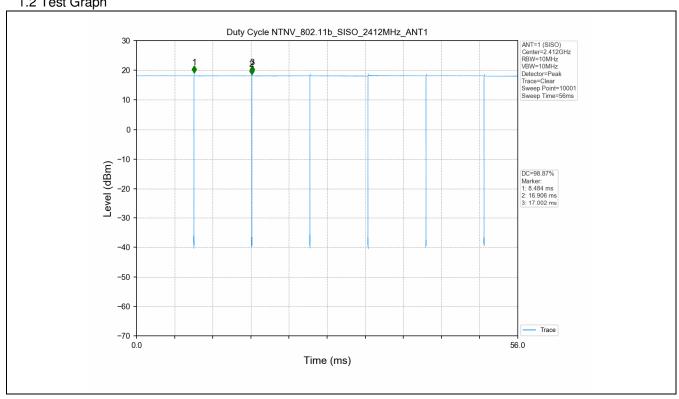
9.1 Appendix 15.247

1. Duty Cycle

1.1 Test Result

| 1.1 Test result | | | | | | | | | |
|-----------------|-------------------------------|---------|---------|-----------|-------------|-------------------|---|--|--|
| Test Mode | Channel Frequency(MHz) | TX Type | ANT No. | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | | |
| | 2412 | SISO | 1 | 8.422 | 8.518 | 98.87 | 0.05 | | |
| 802.11b | 2437 | SISO | 1 | 8.415 | 8.510 | 98.88 | 0.05 | | |
| | 2462 | SISO | 1 | 8.415 | 8.510 | 98.88 | 0.05 | | |
| | 2412 | SISO | 1 | 1.396 | 1.499 | 93.13 | 0.31 | | |
| 802.11g | 2437 | SISO | 1 | 1.396 | 1.499 | 93.13 | 0.31 | | |
| | 2462 | SISO | 1 | 1.395 | 1.498 | 93.12 | 0.31 | | |
| | 2412 | SISO | 1 | 1.308 | 1.411 | 92.70 | 0.33 | | |
| 802.11n(HT20) | 2437 | SISO | 1 | 1.309 | 1.412 | 92.71 | 0.33 | | |
| | 2462 | SISO | 1 | 1.309 | 1.411 | 92.77 | 0.33 | | |

1.2 Test Graph





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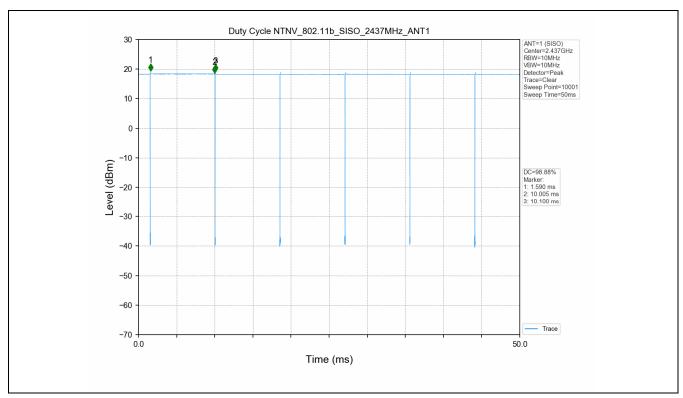
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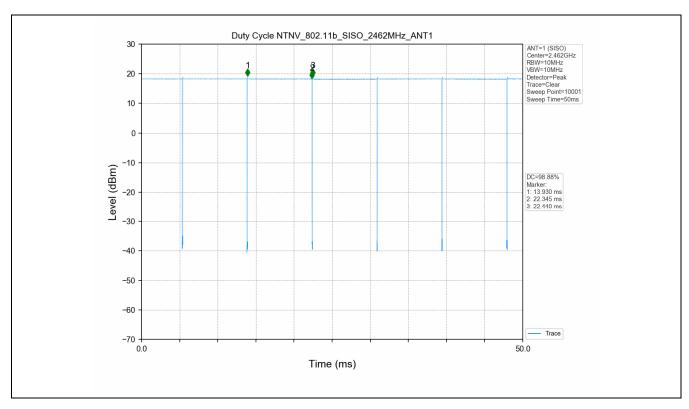
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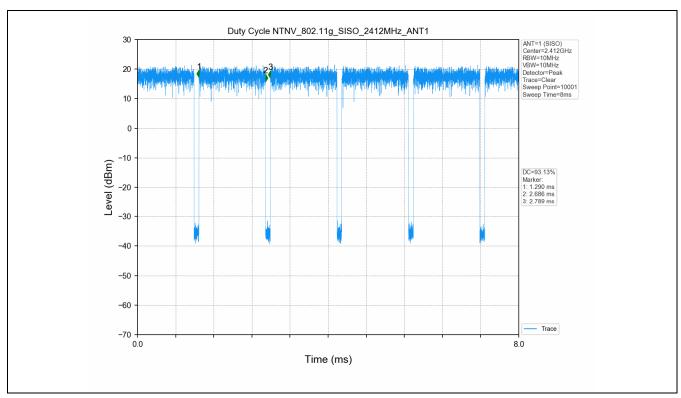
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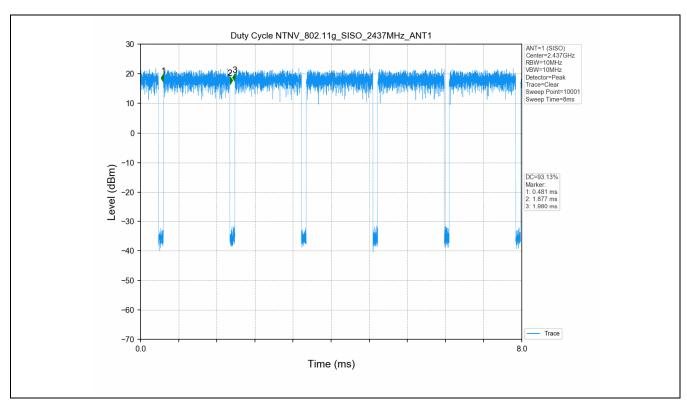
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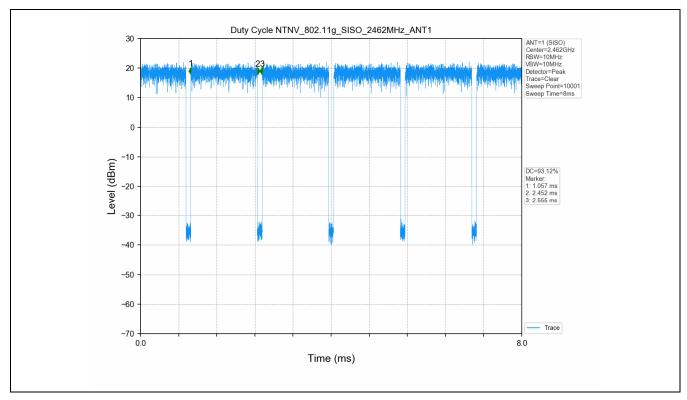
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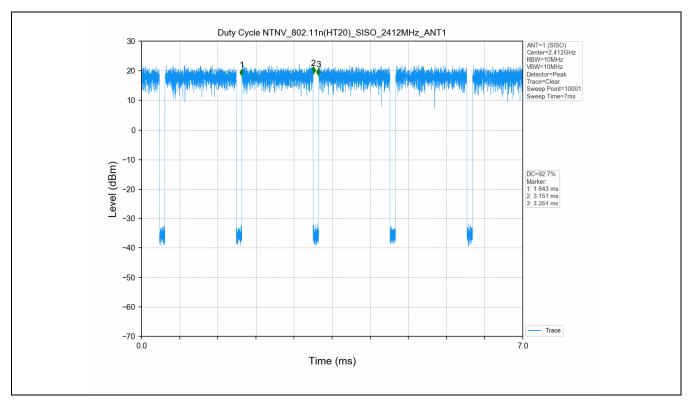
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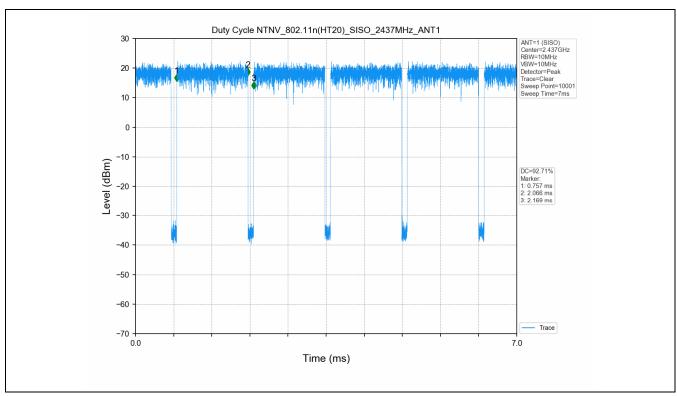
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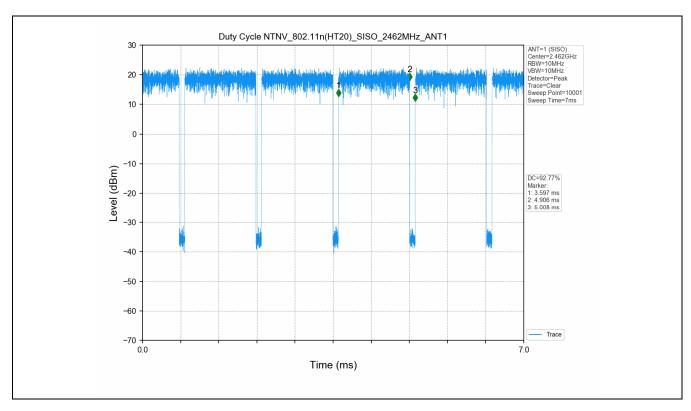
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2. Bandwidth

2.1 Test Result

| Test Mode | Frequency | TX Type | ANT No. | 6dB Bai | - Verdict | | | | |
|---------------|-----------|-----------|-----------|-------------------|--------------|---------|--|--|--|
| rest Mode | (MHz) | 1 × 1 ype | AINT INO. | Test Result (MHz) | Limits (MHz) | Volulot | | | |
| | 2412 | SISO | 1 | 7.117 | ≥0.5 | PASS | | | |
| 802.11b | 2437 | SISO | 1 | 7.596 | ≥0.5 | PASS | | | |
| | 2462 | SISO | 1 | 7.590 | ≥0.5 | PASS | | | |
| | 2412 | SISO | 1 | 15.201 | ≥0.5 | PASS | | | |
| 802.11g | 2437 | SISO | 1 | 15.214 | ≥0.5 | PASS | | | |
| | 2462 | SISO | 1 | 15.186 | ≥0.5 | PASS | | | |
| | 2412 | SISO | 1 | 15.177 | ≥0.5 | PASS | | | |
| 802.11n(HT20) | 2437 | SISO | 1 | 15.216 | ≥0.5 | PASS | | | |
| | 2462 | SISO | 1 | 15.202 | ≥0.5 | PASS | | | |

| Test Mode | Frequency | TV Tura | ANT No. | 99% Occupied Bandwidth | | | | |
|---------------|-----------|---------|---------|------------------------|---------------------|--|--|--|
| i est iviode | (MHz) | TX Type | | Test Res | ult (MHz) | | | |
| 802.11b | 2412 | SISO | 1 | 11.606 | Only for Report Use | | | |
| | 2437 | SISO | 1 | 11.697 | Only for Report Use | | | |
| | 2462 | SISO | 1 | 11.790 | Only for Report Use | | | |
| | 2412 | SISO | 1 | 16.902 | Only for Report Use | | | |
| 802.11g | 2437 | SISO | 1 | 16.933 | Only for Report Use | | | |
| | 2462 | SISO | 1 | 16.755 | Only for Report Use | | | |
| | 2412 | SISO | 1 | 18.044 | Only for Report Use | | | |
| 802.11n(HT20) | 2437 | SISO | 1 | 18.092 | Only for Report Use | | | |
| | 2462 | SISO | 1 | 17.969 | Only for Report Use | | | |



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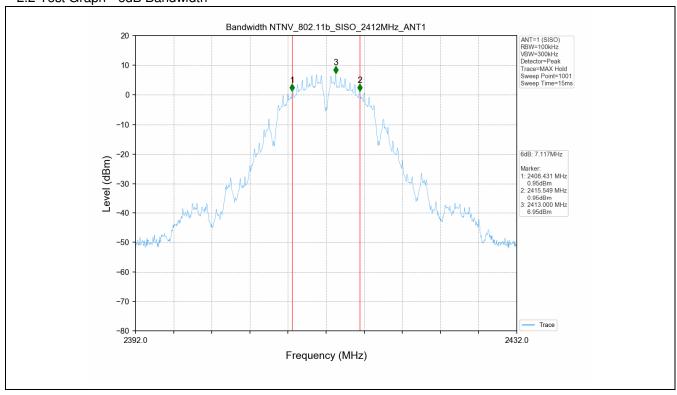
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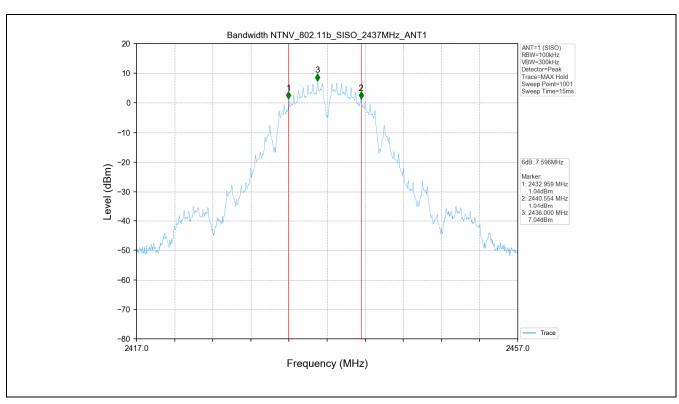


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2.2 Test Graph - 6dB Bandwidth







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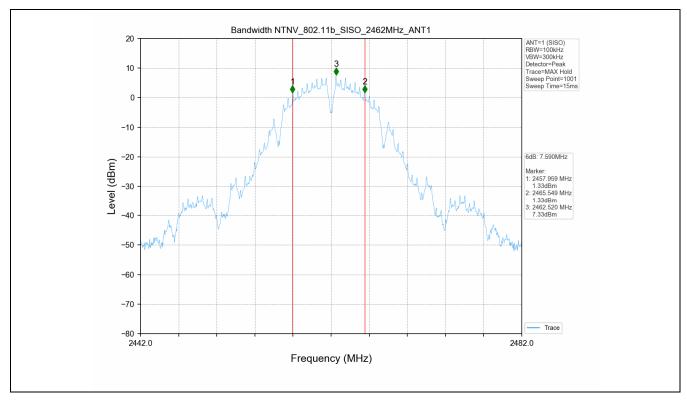
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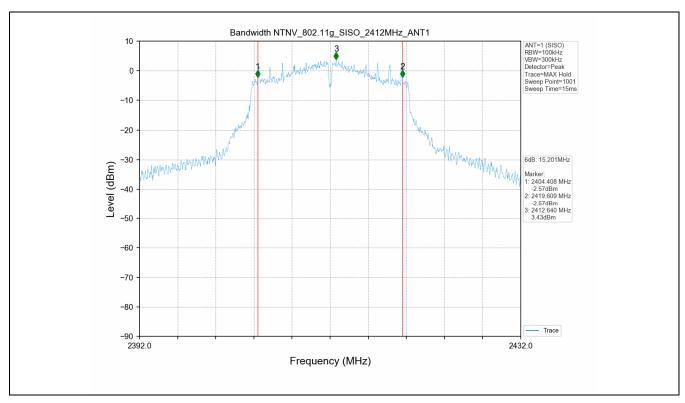
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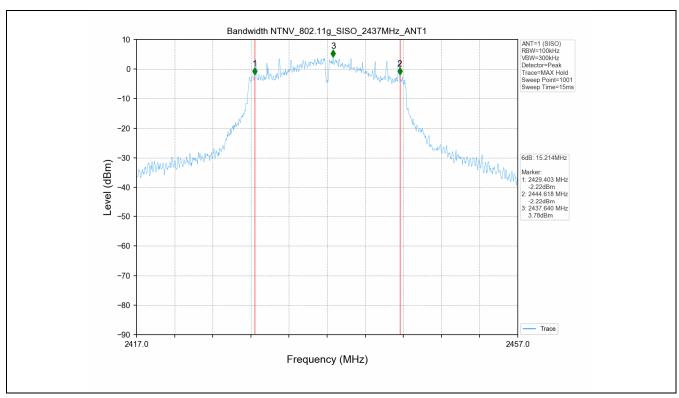
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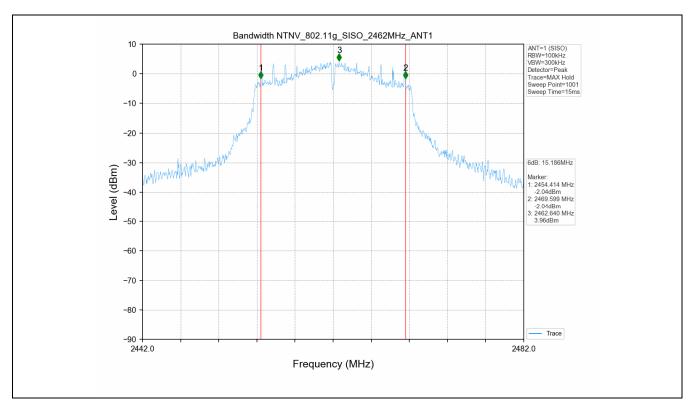
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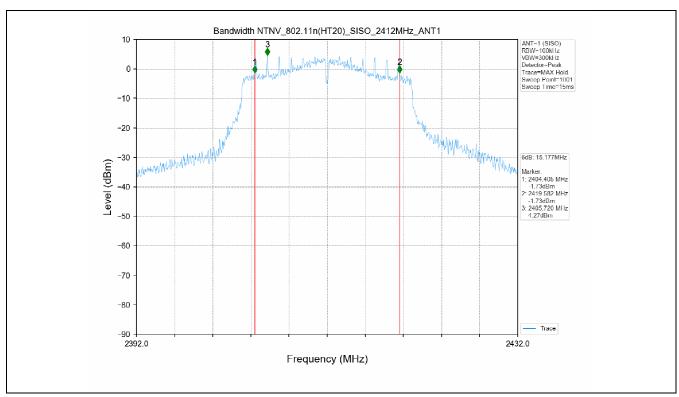
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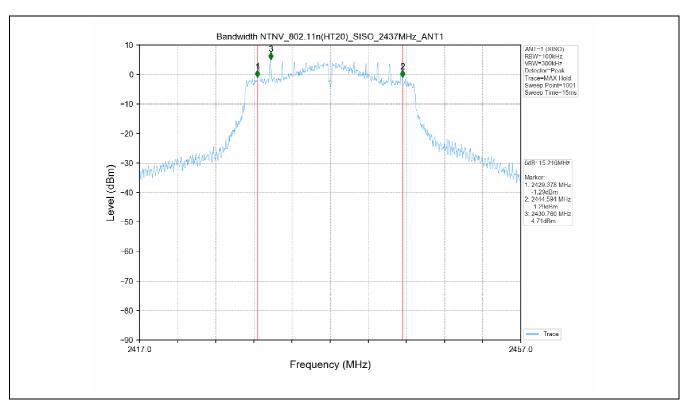
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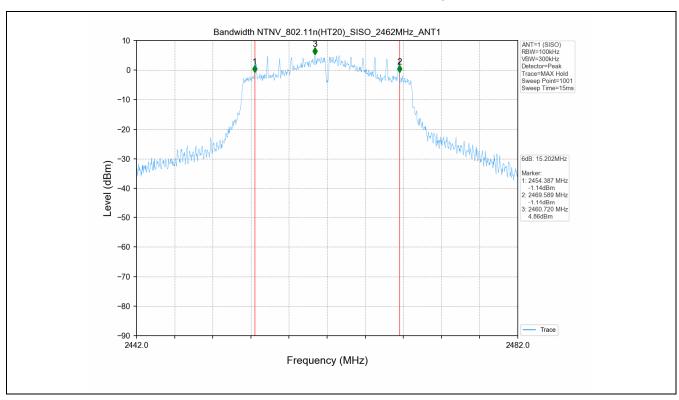
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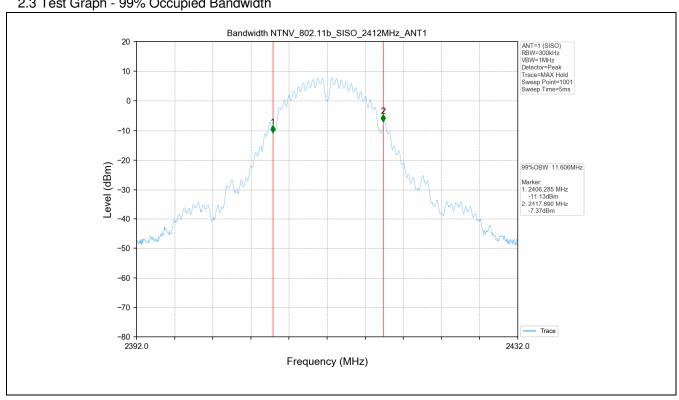


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2.3 Test Graph - 99% Occupied Bandwidth





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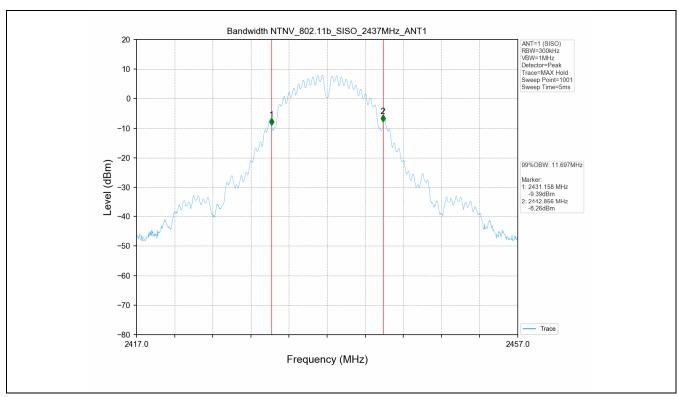
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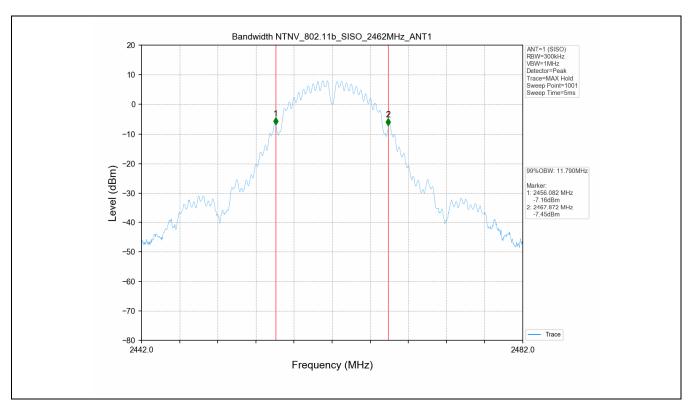
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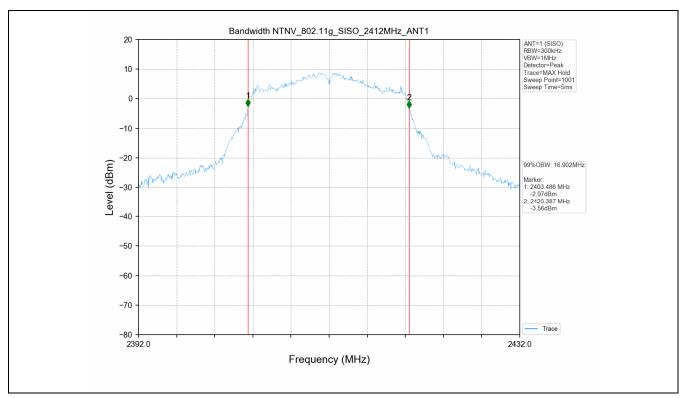
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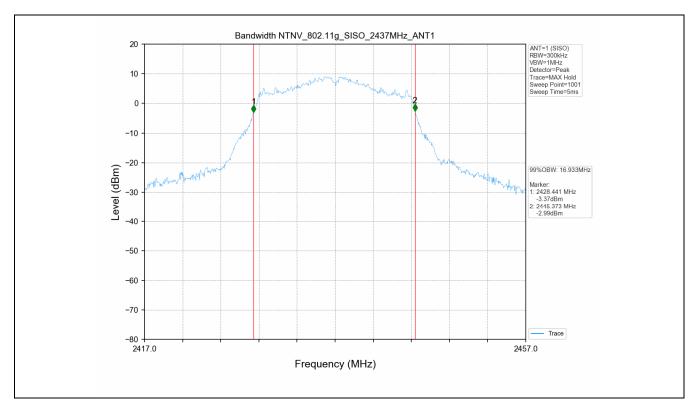
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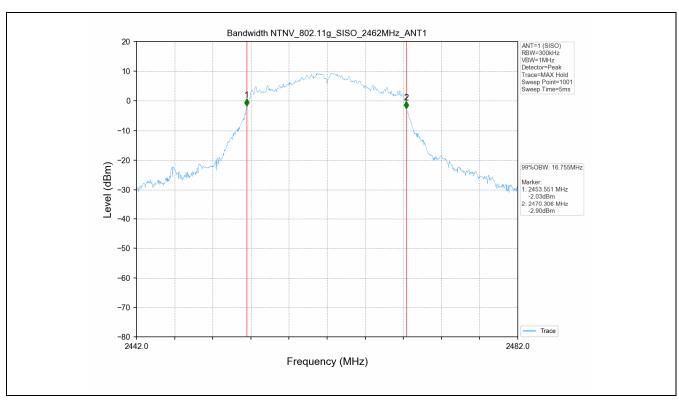
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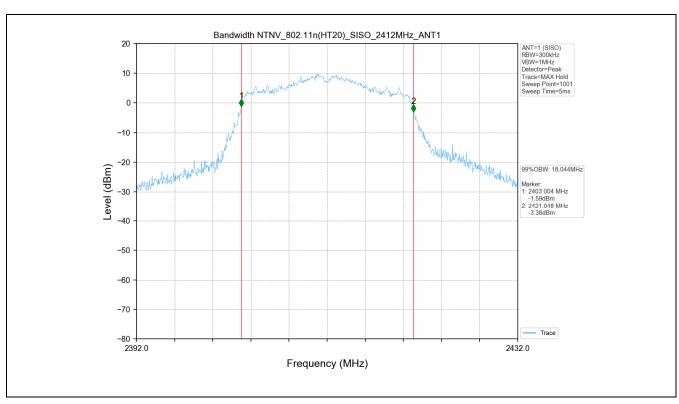
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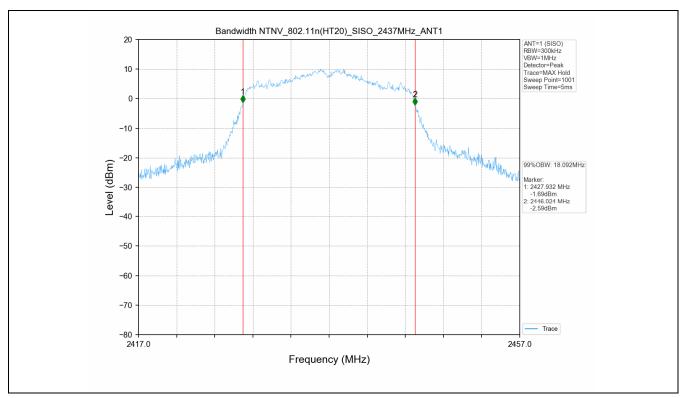
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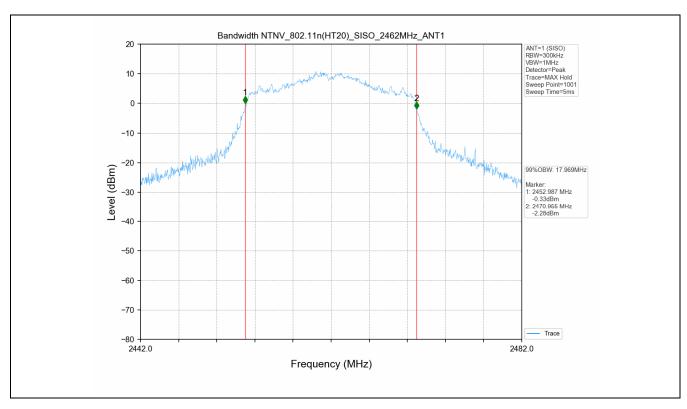
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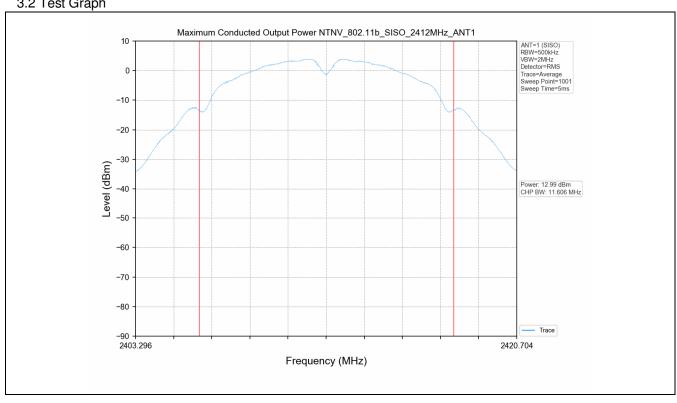
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3. Maximum Conducted Output Power

3.1 Test Result

| Test Mode | Frequency (MHz) | Тх Туре | Measured Average Output Power (dBm) | Limits (dBm) | Verdict | |
|---------------|--------------------|---------|--|--------------|---------|--|
| | | | Ant 1 | | | |
| | 2412 | SISO | 12.99 | 30 | PASS | |
| 802.11b | 2437 | SISO | 13.41 | 30 | PASS | |
| | 2462 | SISO | 13.24 | 30 | PASS | |
| | 2412 | SISO | 13.41 | 30 | PASS | |
| 802.11g | 2437 | SISO | 14.12 | 30 | PASS | |
| | 2462 | SISO | 14.21 | 30 | PASS | |
| | 2412 | SISO | 13.22 | 30 | PASS | |
| 802.11n(HT20) | 2437 | SISO | 13.53 | 30 | PASS | |
| | 2462 | SISO | 13.53 | 30 | PASS | |

3.2 Test Graph





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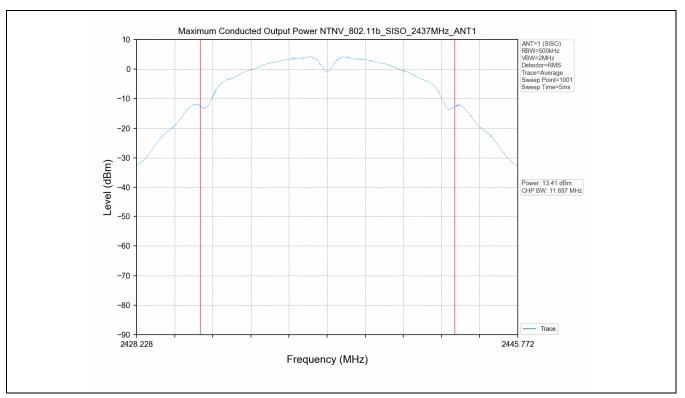
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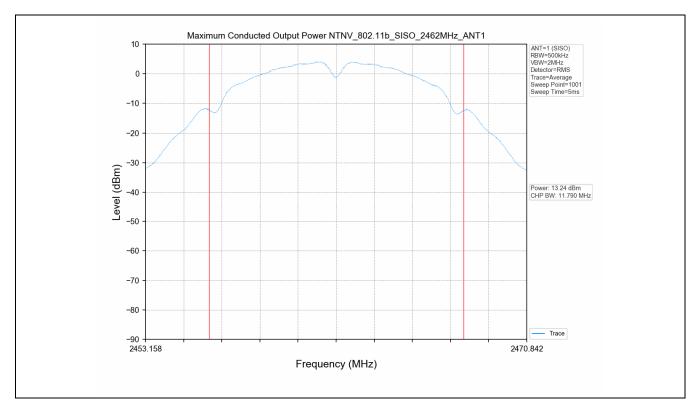
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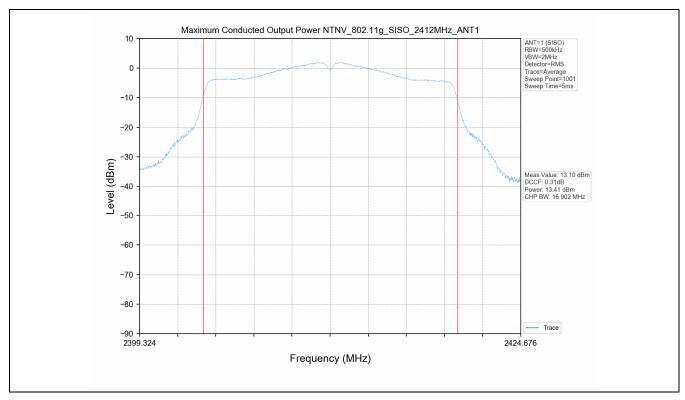
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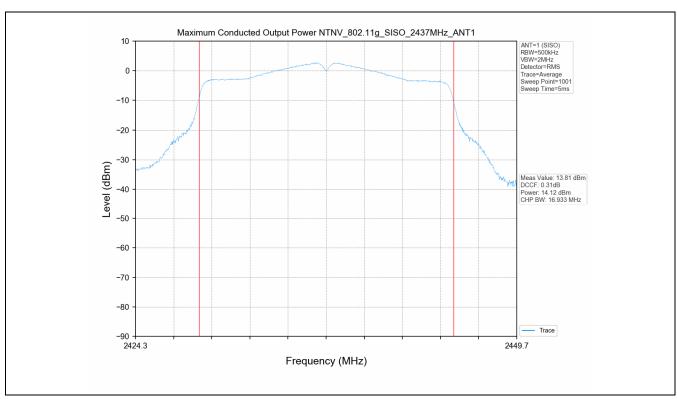
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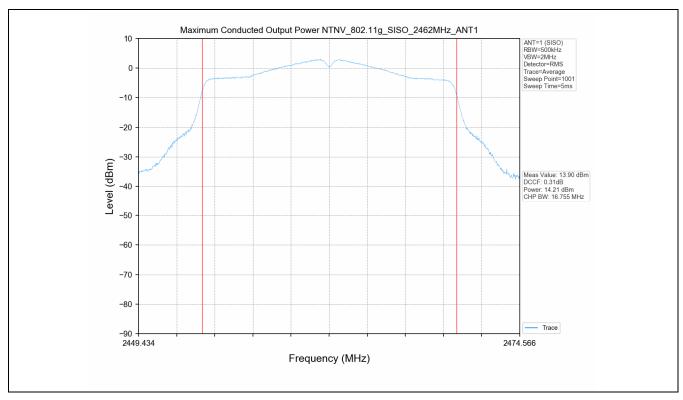
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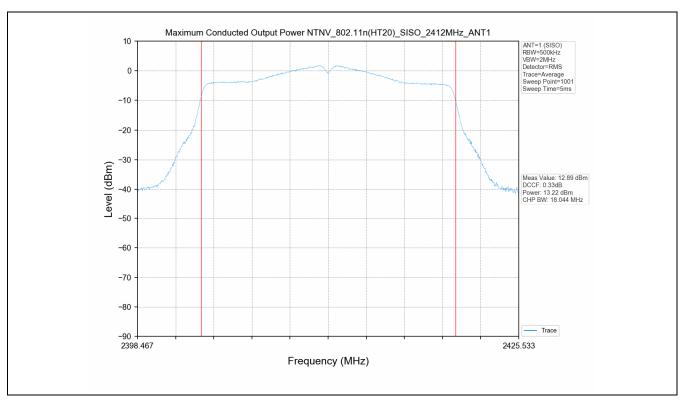
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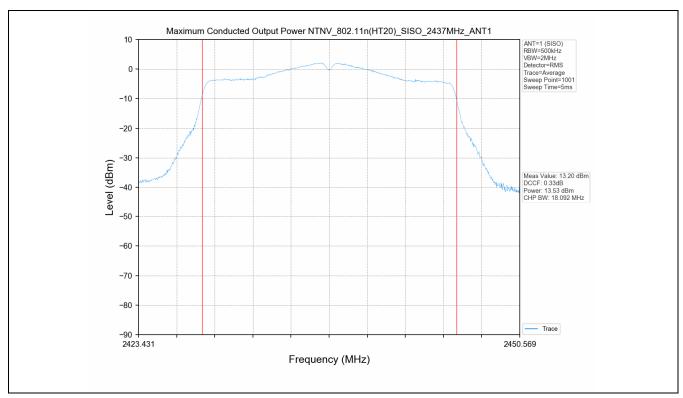
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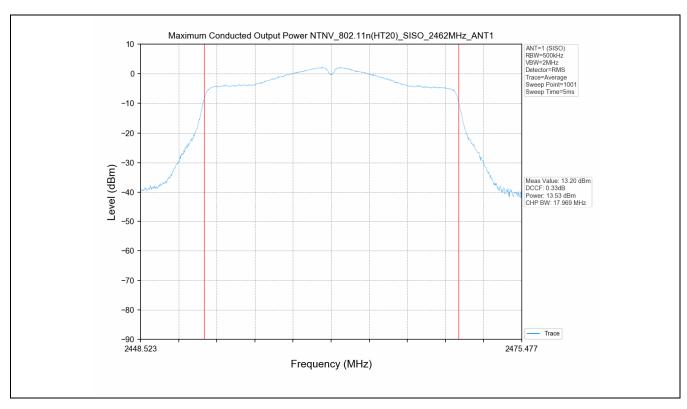
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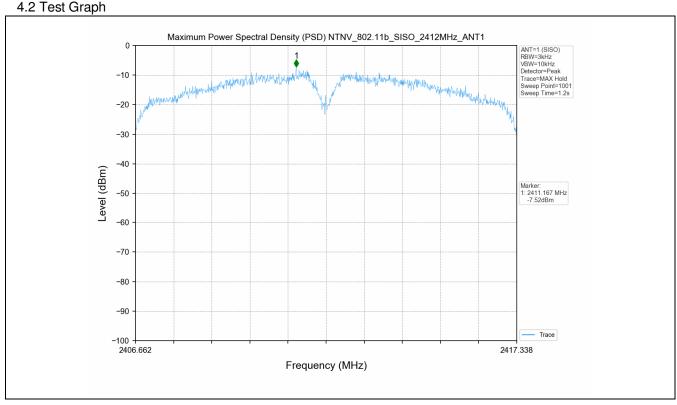
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

| Test Mode | Frequency (MHz) | Тх Туре | Maximum Power Spectral Density (dBm/3KHz) Ant 1 | Limits (dBm/3kHz) | Verdict |
|---------------|--------------------|---------|--|----------------------|---------|
| | 2412 | SISO | -7.52 | ≤8 | PASS |
| 802.11b | 2437 | SISO | -5.75 | ≤8 | PASS |
| | 2462 | SISO | -7.80 | ≤8 | PASS |
| | 2412 | SISO | -9.54 | ≤8 | PASS |
| 802.11g | 2437 | SISO | -8.64 | ≤8 | PASS |
| | 2462 | SISO | -8.31 | ≤8 | PASS |
| | 2412 | SISO | -9.72 | ≤8 | PASS |
| 802.11n(HT20) | 2437 | SISO | -8.63 | ≤8 | PASS |
| | 2462 | SISO | -8.87 | ≤8 | PASS |





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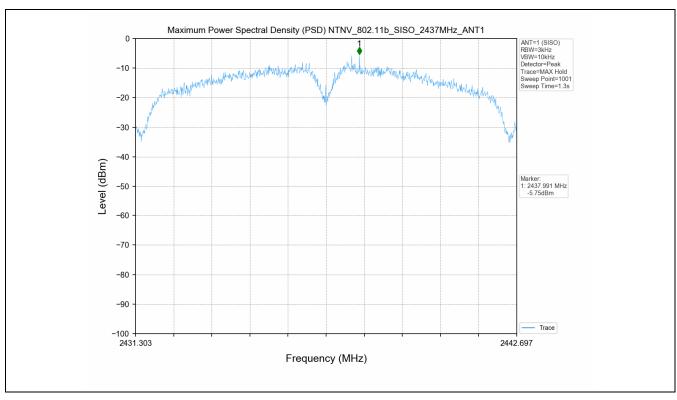
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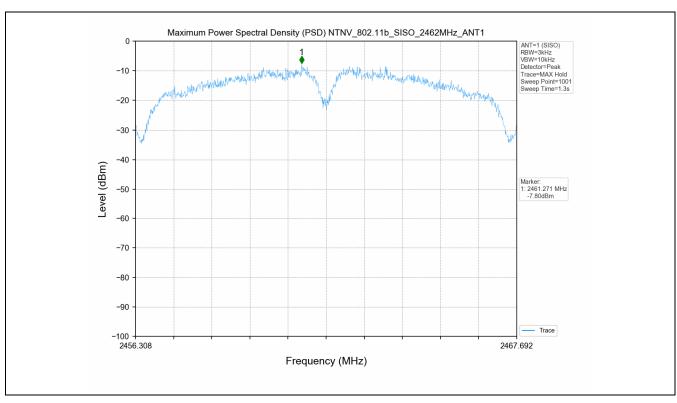
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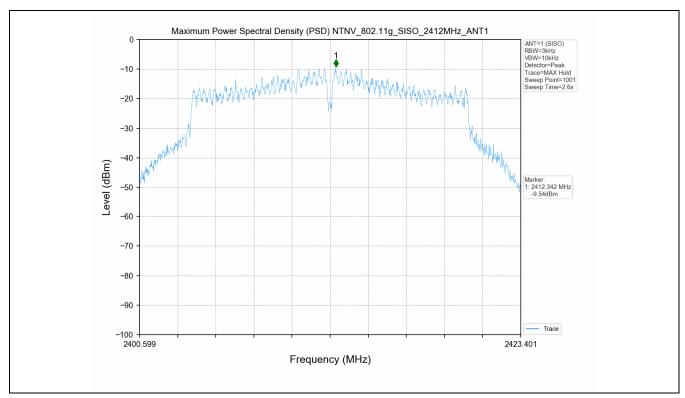
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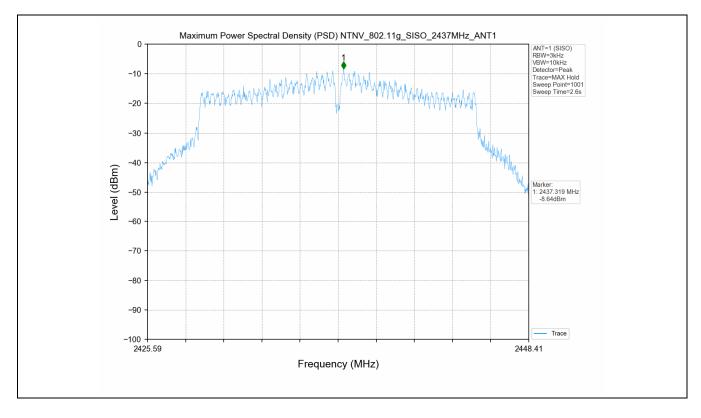
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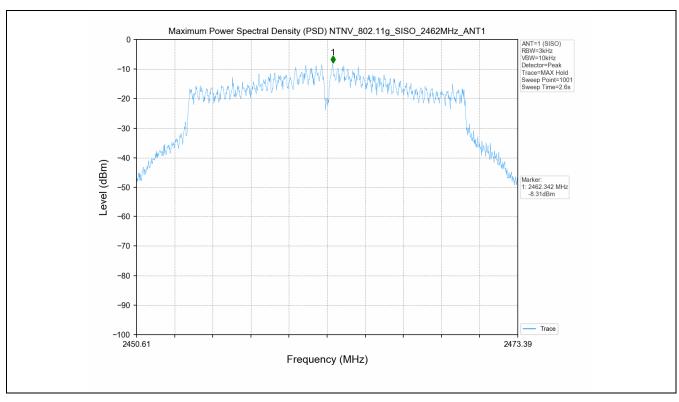
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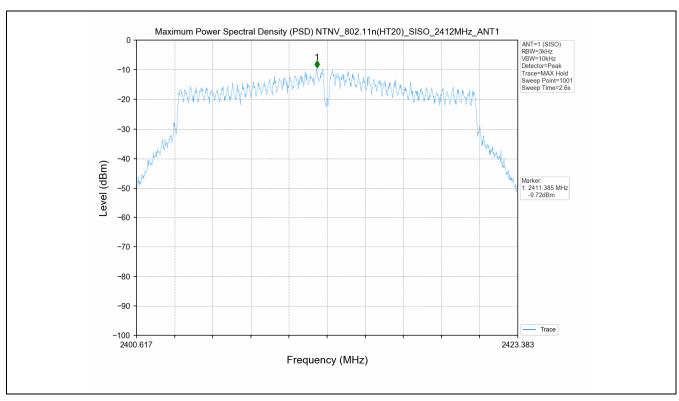
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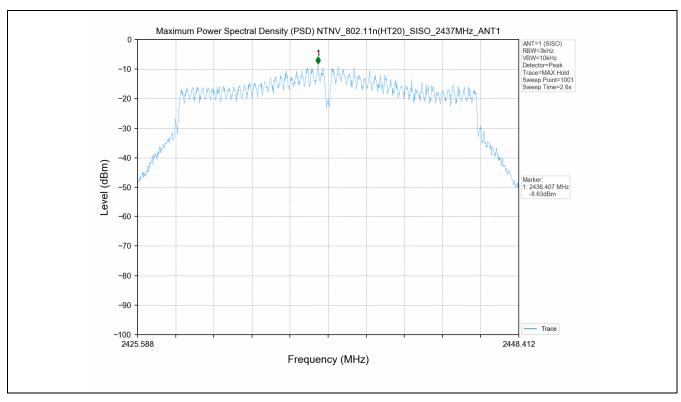
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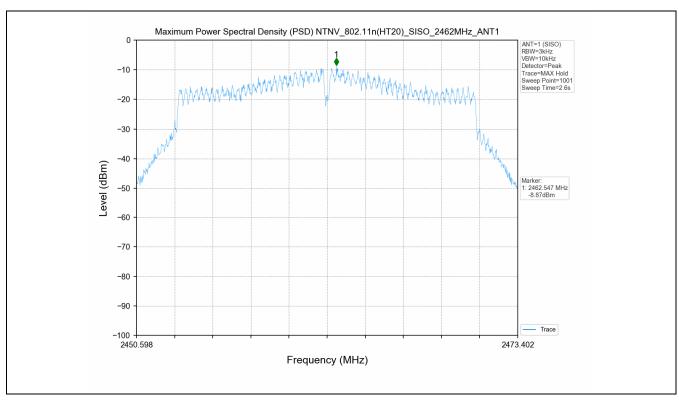
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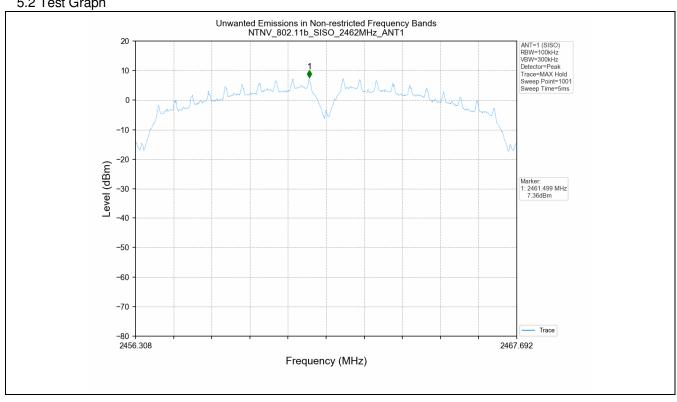
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5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

| Test Mode | Frequency (MHz) | TX Type | ANT No. | Spurious Conducted Emission (dBm) | Limits (dBm) | Verdict |
|---------------|--------------------|---------|---------|--------------------------------------|--------------|---------|
| | 2412 | SISO | 1 | Refer to test graph | -22.64 | PASS |
| 802.11b | 2437 | SISO | 1 | Refer to test graph | -22.64 | PASS |
| | 2462 | SISO | 1 | Refer to test graph | -22.64 | PASS |
| | 2412 | SISO | 1 | Refer to test graph | -25.92 | PASS |
| 802.11g | 2437 | SISO | 1 | Refer to test graph | -25.92 | PASS |
| | 2462 | SISO | 1 | Refer to test graph | -25.92 | PASS |
| | 2412 | SISO | 1 | Refer to test graph | -25.08 | PASS |
| 802.11n(HT20) | 2437 | SISO | 1 | Refer to test graph | -25.08 | PASS |
| | 2462 | SISO | 1 | Refer to test graph | -25.08 | PASS |

5.2 Test Graph





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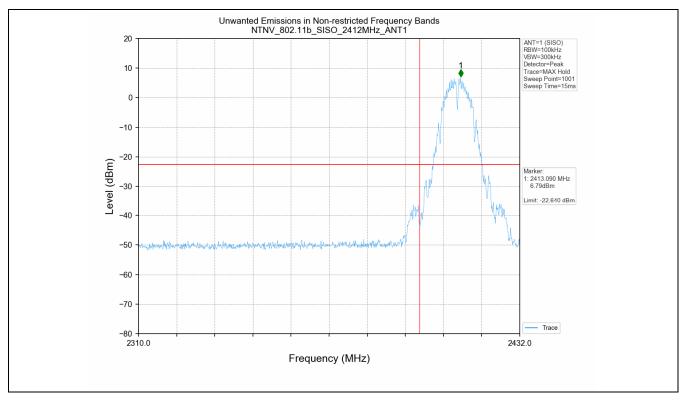
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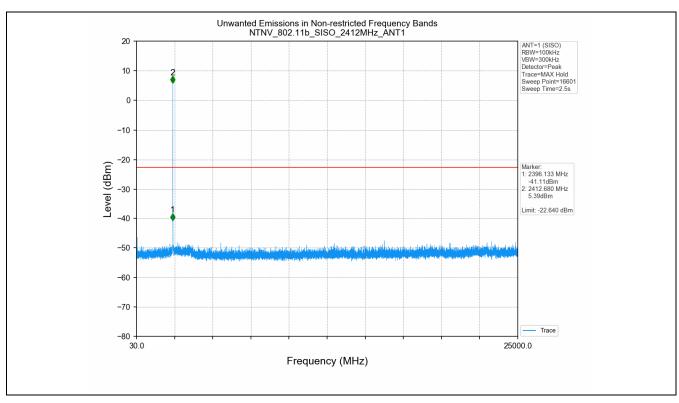
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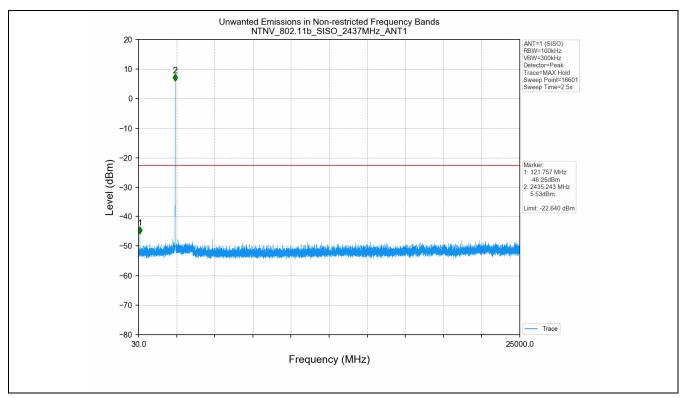
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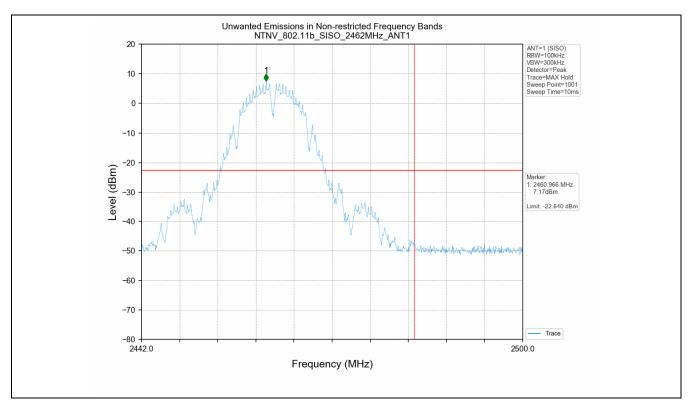
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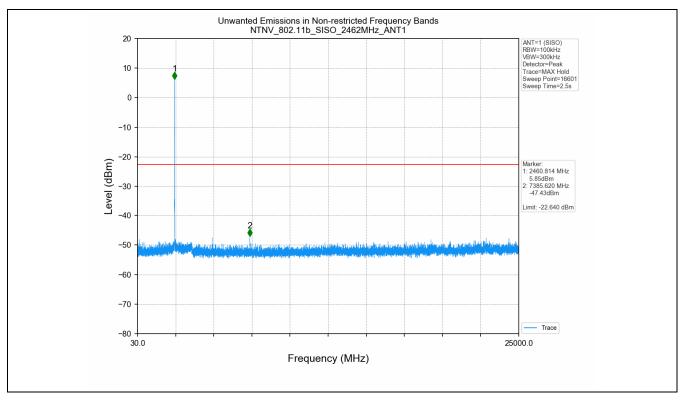
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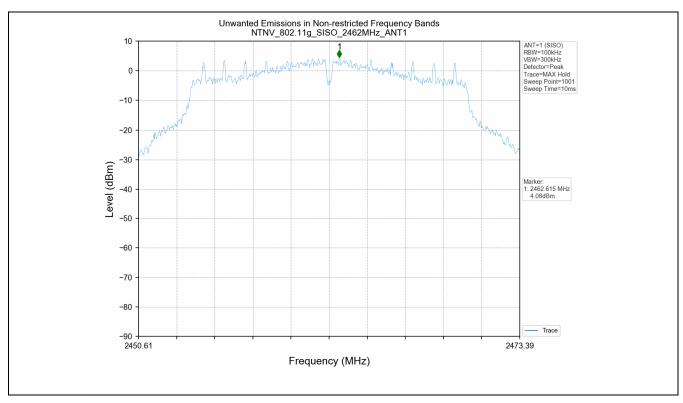
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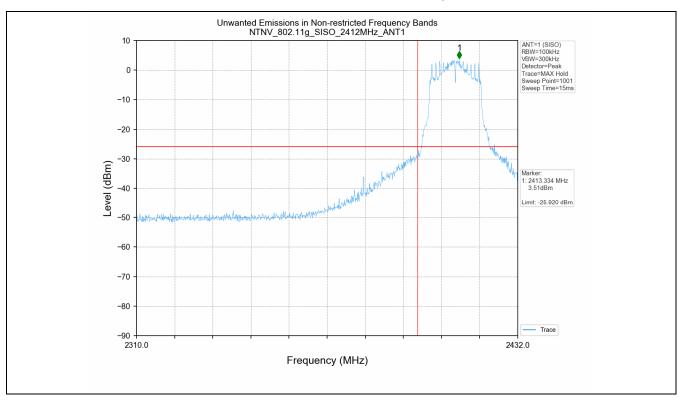
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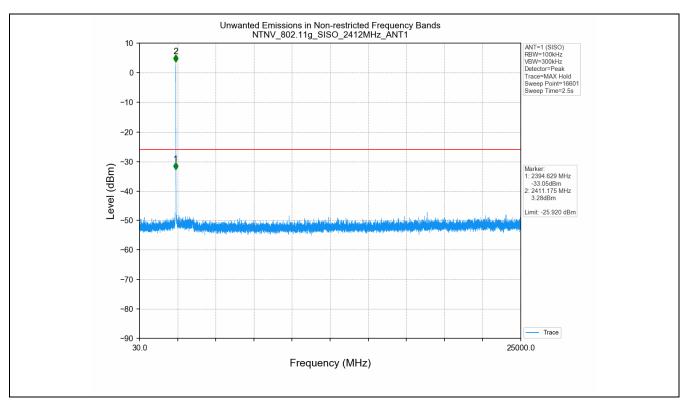
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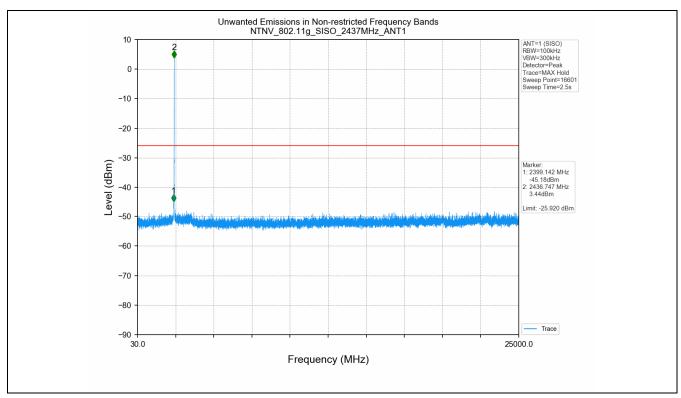
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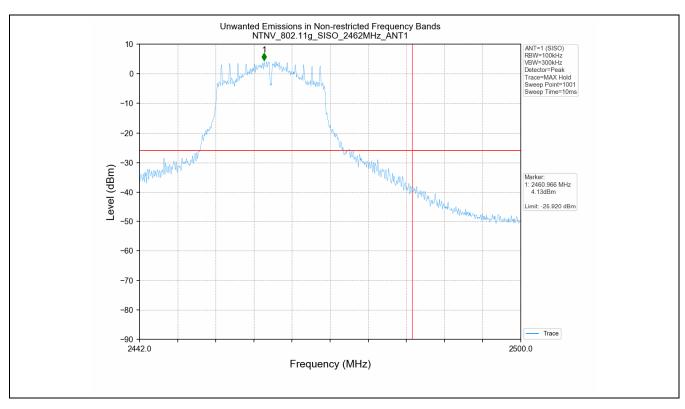
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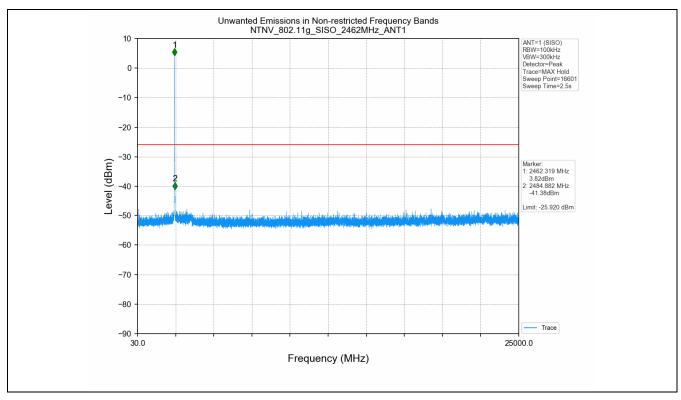
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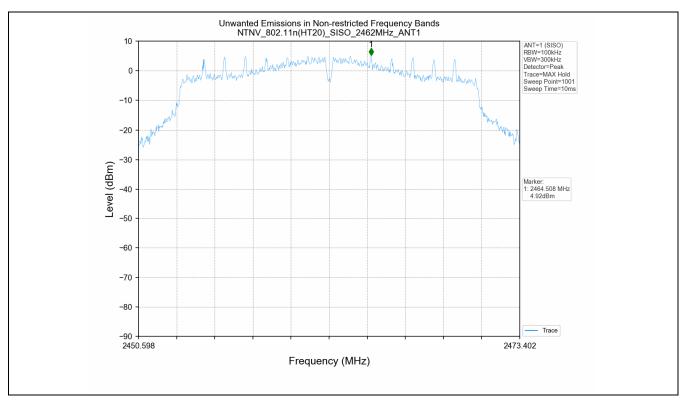
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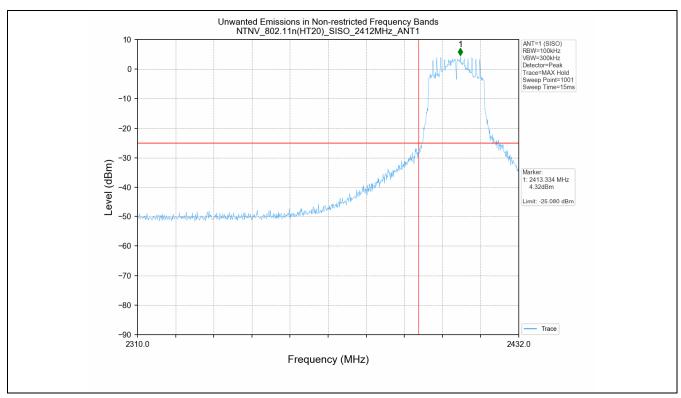
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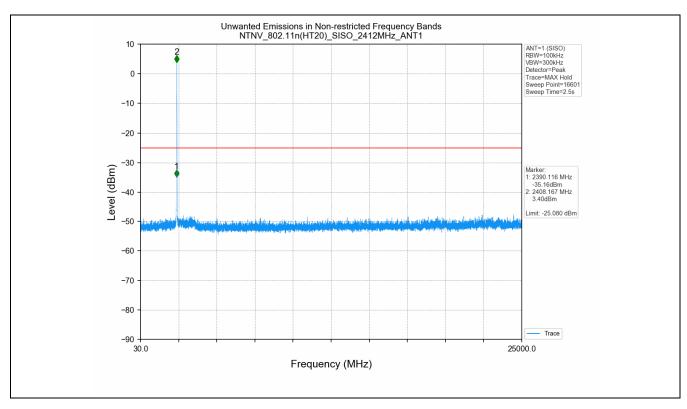
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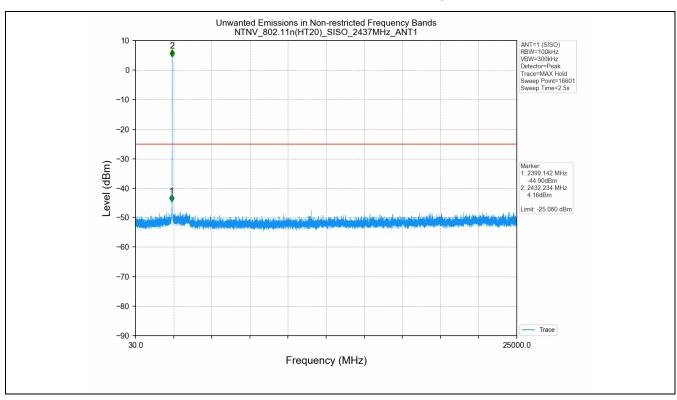
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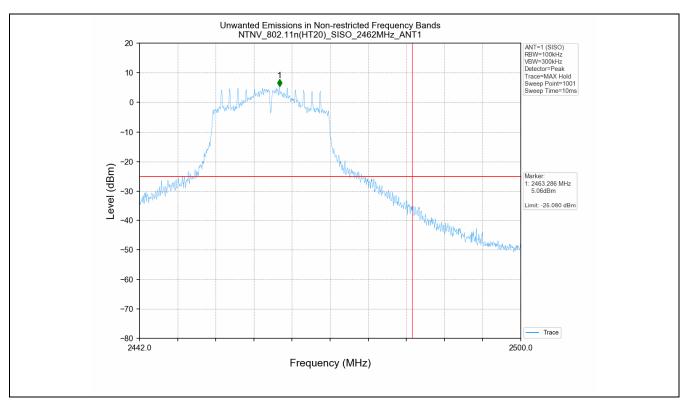
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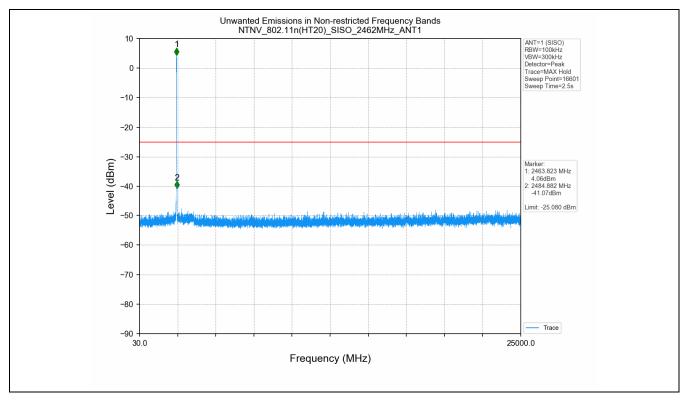
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