

Report No.: SZEM140500254801

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FCC REPORT

Application No:SZEM1405002548RFApplicant:WGI Innovations, Ltd.Product Name:7"Trail Tab for Android

Model No.(EUT): VU100 Add Model No. VXD

Trade Mark: TRAIL TAB
FCC ID: YTT-VU100

Standards: 47 CFR Part 15, Subpart C (2013)

Date of Receipt: 2014-05-23

Date of Test: 2014-06-03 to 2014-06-13

Date of Issue: 2014-06-20

Test Result: PASS *

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

Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Test Summary

| Test Item | Test Requirement | Test method | Result |
|--|--|-------------------------|--------|
| Antenna Requirement | 47 CFR Part 15, Subpart C Section 15.203/15.247 (c) | ANSI C63.10 2009 | PASS |
| AC Power Line Conducted Emission | 47 CFR Part 15, Subpart C Section 15.207 | ANSI C63.10 2009 | PASS |
| Conducted Peak Output Power | 47 CFR Part 15, Subpart C Section 15.247 (b)(3) | KDB558074 D01 v03r01 | PASS |
| 6dB Occupied Bandwidth | 47 CFR Part 15, Subpart C Section 15.247 (a)(2) | KDB558074 D01 v03r01 | PASS |
| Power Spectral Density | 47 CFR Part 15, Subpart C Section 15.247 (e) | KDB558074 D01 v03r01 | PASS |
| Band-edge for RF Conducted Emissions | 47 CFR Part 15, Subpart C Section 15.247(d) | KDB558074 D01 v03r01 | PASS |
| RF Conducted Spurious Emissions | 47 CFR Part 15, Subpart C Section 15.247(d) | KDB558074 D01 v03r01 | PASS |
| Radiated Spurious Emissions | 47 CFR Part 15, Subpart C Section 15.205/15.209 | ANSI C63.10 2009 | PASS |
| Restricted bands around fundamental frequency (Radiated Emission) | 47 CFR Part 15, Subpart C Section 15.205/15.209 | ANSI C63.10 2009 | PASS |

Remark:

Model No.: VU100, VXD

Only the model VU100 was tested, since the circuitry design, PCB layout, electrical components used, internal wiring and functions were identical for all above models. Only different on model number and color.

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4 General Information

4.1 Client Information

| Applicant: | WGI Innovations, Ltd. |
|-----------------------|--|
| Address of Applicant: | 602 Fountain Parkway Grand Prairie, TX, 75050, United States |

4.2 General Description of EUT

| Product Name: | 7"Trail Tab for A | Android | | |
|------------------------|----------------------------------|--------------------------------------|--|--|
| Model No.: | VU100, VXD | VU100, VXD | | |
| Trade Mark: | TRAIL TAB | | | |
| Operation Frequency: | IEEE 802.11b/g/ | /n(HT20): 2412MHz to 2462MHz | | |
| | IEEE 802.11n(H | T40): 2422MHz to 2452MHz | | |
| Channel Numbers: | | , IEEE 802.11n HT20: 11 Channels | | |
| | IEEE 802.11n H | T40: 7 Channels | | |
| Channel Separation: | 5MHz | | | |
| Type of Modulation: | | b: DSSS(CCK,DQPSK,DBPSK) | | |
| | | g: OFDM(64QAM, 16QAM, QPSK, BPSK) | | |
| | | n(HT20 and HT40): OFDM(64QAM, 16QAM, | | |
| | QPSK,BPSK) | | | |
| Sample Type: | Portable production | | | |
| EUT Function: | 7" Trail Tab for A | 7" Trail Tab for Android | | |
| | IEEE for 802.11 | b: 33 | | |
| Test Power Grade: | IEEE for 802.11 | g: 33 | | |
| | IEEE for 802.11 | n(T20 and T40) : 33 | | |
| Test Software of EUT: | Realtek MP Too | I (APP) | | |
| Antenna Type and Gain: | Type: Integral a | ntenna | | |
| | Gain:1.5dBi | | | |
| Power Supply: | AC Adapter: | Model: GQ12-050200-ZU | | |
| | | Input: AC 100-240V 50/60Hz 0.5A MAX | | |
| | | Output: DC 5.0V 2.0A | | |
| | Battery: Lithium polymer battery | | | |
| Test Voltage: | AC 120V~ 60Hz | | | |
| USB Cable: | 100cm (Unshielded) | | | |

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| Operation Frequency each of channel(802.11b/g/n HT20) | | | | | | | | | | |
|---|------|-----------|-----------|-----------------|---------|---------|--------|------|-----|---------------|
| Channel | Fre | equency | Channe | Frequency | Channel | Fre | quency | Char | nel | Frequency |
| 1 | 24 | 112MHz | 4 | 2427MHz | 7 | 244 | 12MHz | 10 |) | 2457MHz |
| 2 | 24 | 117MHz | 5 | 2432MHz | 8 | 244 | 17MHz | 11 | | 2462MHz |
| 3 | 24 | 122MHz | 6 | 2437MHz | 9 | 2452MHz | | | | |
| Operation F | requ | ency each | of channe | el(802.11n HT40 |) | | | | | |
| Channe | | Frequ | ency | Channel | Frequen | су | Chan | nel | | - requency |
| 1 | | 2422 | ИHz | 4 | 2437MH | lz | 7 | | | 2452MHz |
| 2 2427MHz | | 5 | 2442MF | lz | | | | _ | | |
| 3 | | 2432 | ИНz | 6 | 2447MH | lz | | | | |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11b/g/n (HT20):

| Channel | Frequency |
|---------------------|-----------|
| The Lowest channel | 2412MHz |
| The Middle channel | 2437MHz |
| The Highest channel | 2462MHz |

For 802.11n (HT40):

| Channel | Frequency |
|---------------------|-----------|
| The Lowest channel | 2422MHz |
| The Middle channel | 2437MHz |
| The Highest channel | 2452MHz |

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4.3 Test Environment and Mode

| Operating Environment: | |
|------------------------|--|
| Temperature: | 26.0 °C |
| Humidity: | 55 % RH |
| Atmospheric Pressure: | 1018 mbar |
| Test mode: | |
| Transmitting mode: | The EUT transmitted the continuous modulation test signal at the specific channel(s) |
| AC charge + | The EUT transmitted the continuous modulation test signal at the |
| Transmitting mode: | specific channel(s) and AC charge it |

4.4 Description of Support Units

The EUT has been tested independent unit.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

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.



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4.6 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 3m Semi-anechoic chamber, Full-anechoic Chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197, G-416, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.

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4.10Equipment List

| | Conducted Emission | n | | | |
|------|---------------------------------------|--|---------------------|------------------|---------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Due date (yyyy-mm-dd) |
| 1 | Shielding Room | ZhongYu Electron | GB-88 | SEL0042 | 2015-06-10 |
| 2 | LISN | Rohde & Schwarz | ENV216 | SEL0152 | 2014-10-24 |
| 3 | LISN | ETS-LINDGREN | 3816/2 | SEL0021 | 2015-05-16 |
| 4 | 8 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN- T8-02 | SEL0162 | 2014-11-10 |
| 5 | 4 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN- T4-02 | SEL0163 | 2014-11-10 |
| 6 | 2 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN- T2-02 | SEL0164 | 2014-11-10 |
| 7 | EMI Test Receiver | Rohde & Schwarz | ESCI | SEL0022 | 2015-05-16 |
| 8 | Coaxial Cable | SGS | N/A | SEL0025 | 2015-05-29 |
| 9 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2014-10-24 |
| 10 | Humidity/ Temperature Indicator | Shanhai Qixiang | ZJ1-2B | SEL0103 | 2014-10-24 |
| 11 | Barometer | Chang Chun | DYM3 | SEL0088 | 2015-05-16 |



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| | RE in Chamber | | | | |
|------|------------------------------------|--|-----------|------------------|---------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Due date (yyyy-mm-dd) |
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEL0017 | 2015-06-10 |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESIB26 | SEL0023 | 2015-05-16 |
| 3 | EMI Test software | AUDIX | E3 | SEL0050 | N/A |
| 4 | BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEL0015 | 2014-10-24 |
| 5 | Double-ridged horn (1-18GHz) | ETS-LINDGREN | 3117 | SEL0006 | 2014-10-24 |
| 6 | Horn Antenna (18-26GHz) | ETS-LINDGREN | 3160 | SEL0076 | 2014-10-24 |
| 7 | Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEL0053 | 2015-05-16 |
| 8 | Pre-Amplifier (0.1-26.5GHz) | Compliance Directions Systems Inc. | PAP-0126 | SEL0168 | 2014-10-24 |
| 9 | Coaxial cable | SGS | N/A | SEL0027 | 2015-05-29 |
| 10 | Coaxial cable | SGS | N/A | SEL0189 | 2015-05-29 |
| 11 | Coaxial cable | SGS | N/A | SEL0121 | 2015-05-29 |
| 12 | Coaxial cable | SGS | N/A | SEL0178 | 2015-05-29 |
| 13 | Band filter | Amindeon | 82346 | SEL0094 | 2015-05-16 |
| 14 | Barometer | Chang Chun | DYM3 | SEL0088 | 2015-05-16 |
| 15 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2014-10-24 |
| 16 | Humidity/ Temperature Indicator | Shanhai Qixiang | ZJ1-2B | SEL0103 | 2014-10-24 |
| 17 | Signal Generator (10M-27GHz) | Rohde & Schwarz | SMR27 | SEL0067 | 2015-05-16 |
| 18 | Signal Generator | Rohde & Schwarz | SMY01 | SEL0155 | 2014-10-24 |
| 19 | Loop Antenna | Beijing Daze | ZN30401 | SEL0203 | 2015-06-04 |

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| | RF connected test | | | | |
|------|---------------------------------------|-------------------------|-----------|------------------|---------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Due date (yyyy-mm-dd) |
| 1 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2014-10-24 |
| 2 | Humidity/ Temperature Indicator | HYGRO | ZJ1-2B | SEL0033 | 2014-10-24 |
| 3 | Spectrum Analyzer | Rohde & Schwarz | FSP | SEL0154 | 2014-10-24 |
| 4 | Coaxial cable | SGS | N/A | SEL0178 | 2015-05-29 |
| 5 | Coaxial cable | SGS | N/A | SEL0179 | 2015-05-29 |
| 6 | Barometer | ChangChun | DYM3 | SEL0088 | 2015-05-16 |
| 7 | Signal Generator | Rohde & Schwarz | SML03 | SEL0068 | 2015-05-16 |
| 8 | Band filter | amideon | 82346 | SEL0094 | 2015-05-16 |
| 9 | POWER METER | R&S | NRVS | SEL0144 | 2014-10-24 |
| 10 | Attenuator | Beijin feihang taida | TST-2-6dB | SEL0205 | 2015-05-16 |
| 11 | Power Divider(splitter) | Agilent Technologies | 11636B | SEL0130 | 2014-10-24 |

Note: The calibration interval is one year, all the instruments are valid.



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5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna: Integral antenna

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.5dBi.



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5.2 Conducted Emissions

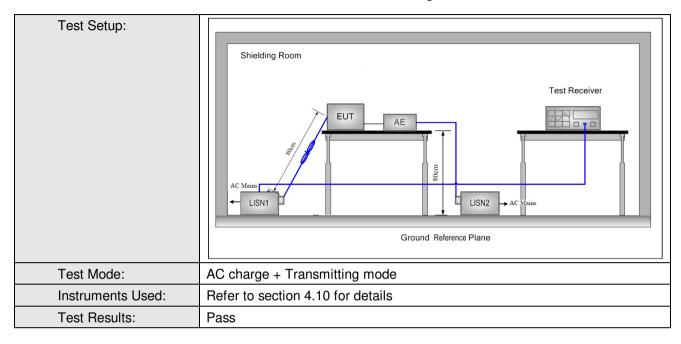
| Test Requirement: | 47 CFR Part 15C Section 15.207 | | | | |
|-----------------------|--|--|--|--|--|
| Test Method: | ANSI C63.10: 2009 | | | | |
| Test Frequency Range: | 150kHz to 30MHz | | | | |
| Limit: | Eroguanov rango (MHz) | Limit (dBuV) | | | |
| | Frequency range (MHz) | Quasi-peak | Average | | |
| | 0.15-0.5 | 66 to 56* | 56 to 46* | | |
| | 0.5-5 | 56 | 46 | | |
| | 5-30 | 60 | 50 | | |
| | * Decreases with the logarithm | n of the frequency. | | 1 | |
| Test Procedure: | The mains terminal disturb room. The EUT was connected to Impedance Stabilization linear impedance. The power call connected to a second reference plane in the same way as multiple socket outlet strip a single LISN provided the result of the tabletop EUT was placed ground reference plane. was placed on the horizontal ground reference plane. Was placed on the horizontal ground reference plane. The test was performed with of the EUT shall be 0.4 m vertical ground reference plane. The LISN unit under test and bonded mounted on top of the group between the closest points the EUT and associated extensions. In order to find the maximum. | Dance voltage test was a AC power source through the LISN 2, which was the LISN 1 for the unit of was used to connect ating of the LISN was reced upon a non-metallicand for floor-standing from the vertical ground reference plane, the a vertical ground reference plane was bonded to the AC and a ground reference und reference plane. The of the LISN 1 and the quipment was at least the action of the relation of the relation of the AC and the puipment was at least the action of the LISN 1 and the quipment was at least the action of the LISN 1 and the puipment was at least the action of the LISN 1 and the action of the LISN 1 and the action | bugh a LISN 1 (Line des a 50Ω/50μH + f the EUT were bonded to the grobeing measured. A multiple power cable not exceeded. It is table 0.8m above to arrangement, the ference plane. The red reference plane. The horizontal ground om the boundary of the plane for LISNs his distance was EUT. All other units 0.8 m from the LISN we positions of | 5Ω bund es to the EUT the of 2. | |
| | equipment and all of the ir ANSI C63.10: 2009 on cor | nterface cables must be | • | to | |

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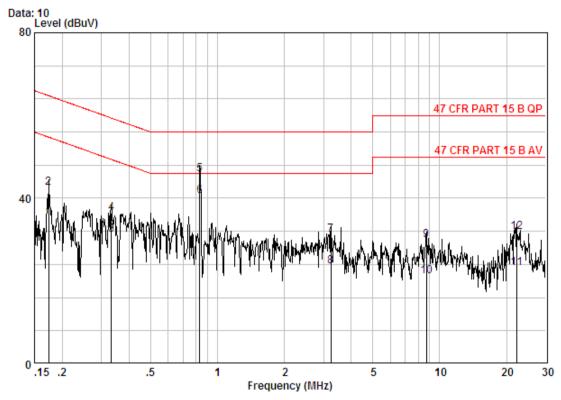
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Site : Shielding Room

Condition : 47 CFR PART 15 B QP CE LINE

Job No. : 2548RF Test mode : AC charge+TX

| | | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|---|---------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| | | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | @ | 0.17399 | 0.02 | 9.70 | 25.58 | 35.30 | 54.77 | -19.47 | Average |
| 2 | | 0.17399 | 0.02 | 9.70 | 32.76 | 42.48 | 64.77 | -22.29 | QP |
| 3 | @ | 0.33208 | 0.01 | 9.74 | 21.35 | 31.09 | 49.40 | -18.31 | Average |
| 4 | | 0.33208 | 0.01 | 9.74 | 26.72 | 36.47 | 59.40 | -22.93 | QP |
| 5 | @ | 0.83047 | 0.02 | 9.80 | 36.05 | 45.87 | 56.00 | -10.13 | QP |
| 6 | @ | 0.83047 | 0.02 | 9.80 | 30.72 | 40.54 | 46.00 | -5.46 | Average |
| 7 | | 3.241 | 0.02 | 9.85 | 21.23 | 31.10 | 56.00 | -24.90 | QP |
| 8 | | 3.241 | 0.02 | 9.85 | 13.58 | 23.45 | 46.00 | -22.55 | Average |
| 9 | | 8.729 | 0.01 | 9.90 | 20.01 | 29.92 | 60.00 | -30.08 | QP |
| 10 | | 8.729 | 0.01 | 9.90 | 11.31 | 21.22 | 50.00 | -28.78 | Average |
| 11 | | 22.180 | 0.02 | 10.10 | 13.04 | 23.16 | 50.00 | -26.84 | Average |
| 12 | | 22.180 | 0.02 | 10.10 | 21.76 | 31.88 | 60.00 | -28.12 | QP |

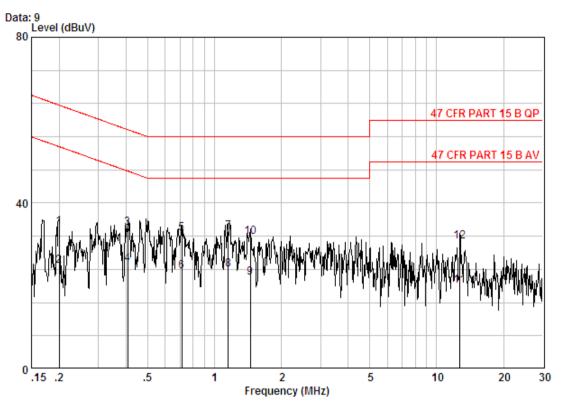
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Neutral Line:



Site : Shielding Room

Condition : 47 CFR PART 15 B QP CE NEUTRAL

Job No. : 2548RF

Test mode : AC charge+TX

| | Freq | Cable Loss | LISN Factor | Read Level | | Limit Line | Over Limit | Remark |
|----|---------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.19969 | 0.02 | 9.70 | 24.44 | 34.16 | 63.62 | -29.46 | QP |
| 2 | 0.19969 | 0.02 | 9.70 | 15.15 | 24.87 | 53.62 | -28.75 | Average |
| 3 | 0.40615 | 0.01 | 9.80 | 24.15 | 33.96 | 57.73 | -23.77 | QP |
| 4 | 0.40615 | 0.01 | 9.80 | 15.51 | 25.32 | 47.73 | -22.40 | Average |
| 5 | 0.71219 | 0.02 | 9.80 | 22.85 | 32.67 | 56.00 | -23.33 | QP |
| 6 | 0.71219 | 0.02 | 9.80 | 13.76 | 23.58 | 46.00 | -22.42 | Average |
| 7 | 1.153 | 0.02 | 9.80 | 23.38 | 33.20 | 56.00 | -22.80 | QP |
| 8 | 1.153 | 0.02 | 9.80 | 14.13 | 23.95 | 46.00 | -22.05 | Average |
| 9 | 1.449 | 0.02 | 9.80 | 12.21 | 22.03 | 46.00 | -23.97 | Average |
| 10 | 1.449 | 0.02 | 9.80 | 22.00 | 31.82 | 56.00 | -24.18 | QP |
| 11 | 12.716 | 0.01 | 10.00 | 10.04 | 20.05 | 50.00 | -29.95 | Average |
| 12 | 12.716 | 0.01 | 10.00 | 20.67 | 30.68 | 60.00 | -29.32 | QP |

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

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5.3 Conducted Peak Output Power

| Test Requirement: | 47 CFR Part 15C Section 15.247 (b)(3) | | | |
|------------------------|--|--|--|--|
| Test Method: | KDB558074 D01 v03r01 | | | |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | |
| | Remark: | | | |
| Took Instruments: | Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. | | | |
| Test Instruments: | Refer to section 4.10 for details | | | |
| Exploratory Test Mode: | Transmitting mode | | | |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) | | | |
| Limit: | 30dBm | | | |
| Test Results: | Pass | | | |



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| Pre-scan und | Pre-scan under all rate at highest channel | | | | | | | |
|--------------|--|---------------|----------|--------|--------|---------|-----------|---------|
| Mode | 802.11b | | | | _ | | | |
| Data Rate | 1Mbps | 2Mbps | 5.5Mbps | 11Mbps | | | | |
| Power (dBm) | 16.10 | 15.93 | 15.83 | 15.72 | | | | |
| Mode | | | | 802 | 2.11g | | | |
| Data Rate | 6Mbps | 9Mbps | 12Mbps | 18Mbps | 24Mbps | 36Mbps | 48Mbps | 54Mbps |
| Power (dBm) | 13.35 | 13.25 | 13.21 | 13.15 | 13.08 | 13.02 | 12.96 | 12.88 |
| Mode | | 802.11n(HT20) | | | | | | |
| Data Rate | 6.5Mbps | 13Mbps | 19.5Mbps | 26Mbps | 39Mbps | 52Mbps | 58.5Mbps | 65Mbps |
| Power (dBm) | 13.01 | 12.85 | 12.81 | 12.76 | 12.73 | 12.67 | 12.64 | 12.54 |
| Mode | 802.11n(HT40) | | | | | | | |
| Data Rate | 13.5Mbps | 27Mbps | 40.5Mbps | 54Mbps | 81Mbps | 108Mbps | 121.5Mbps | 135Mbps |
| Power (dBm) | 12.58 | 12.51 | 12.47 | 12.41 | 12.37 | 12.32 | 12.29 | 12.24 |

Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).



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Measurement Data

| 802.11b mode | | | | | | |
|-------------------------|---|--|--|--|--|--|
| Peak Output Power (dBm) | Limit (dBm) | Result | | | | |
| 13.94 | 30.00 | Pass | | | | |
| 15.44 | 30.00 | Pass | | | | |
| 16.10 | 30.00 | Pass | | | | |
| 802.11g mo | de | | | | | |
| Peak Output Power (dBm) | Limit (dBm) | Result | | | | |
| 11.17 | 30.00 | Pass | | | | |
| 12.67 | 30.00 | Pass | | | | |
| 13.35 | 30.00 | Pass | | | | |
| 802.11n(HT20) | mode | | | | | |
| Peak Output Power (dBm) | Limit (dBm) | Result | | | | |
| 10.84 | 30.00 | Pass | | | | |
| 12.35 | 30.00 | Pass | | | | |
| 13.01 | 30.00 | Pass | | | | |
| 802.11n(HT40)mode | | | | | | |
| Peak Output Power (dBm) | Limit (dBm) | Result | | | | |
| 11.21 | 30.00 | Pass | | | | |
| 12.04 | 30.00 | Pass | | | | |
| 12.58 | 30.00 | Pass | | | | |
| | Peak Output Power (dBm) 13.94 15.44 16.10 802.11g mo Peak Output Power (dBm) 11.17 12.67 13.35 802.11n(HT20) Peak Output Power (dBm) 10.84 12.35 13.01 802.11n(HT40) Peak Output Power (dBm) 11.21 12.04 | Peak Output Power (dBm) Limit (dBm) 13.94 30.00 15.44 30.00 802.11g mode Peak Output Power (dBm) Limit (dBm) 11.17 30.00 12.67 30.00 13.35 30.00 802.11n(HT20)mode Peak Output Power (dBm) Limit (dBm) 10.84 30.00 13.01 30.00 802.11n(HT40)mode Peak Output Power (dBm) Limit (dBm) 11.21 30.00 12.04 30.00 | | | | |

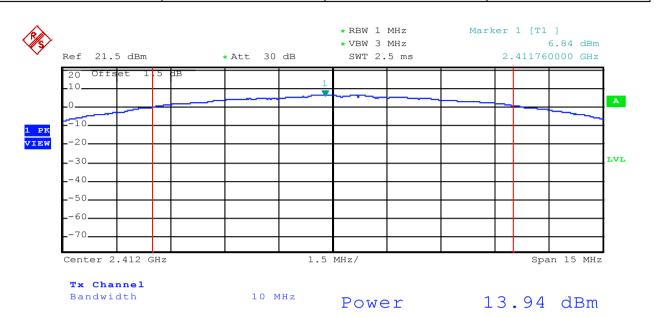


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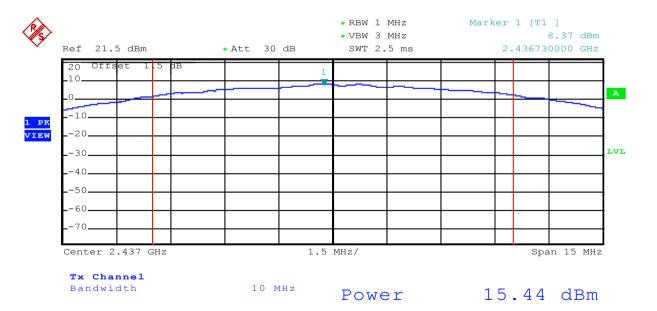
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



| Test mode: | 802.11b | Test channel: | Middle |
|------------|---------|---------------|--------|
| | | | |



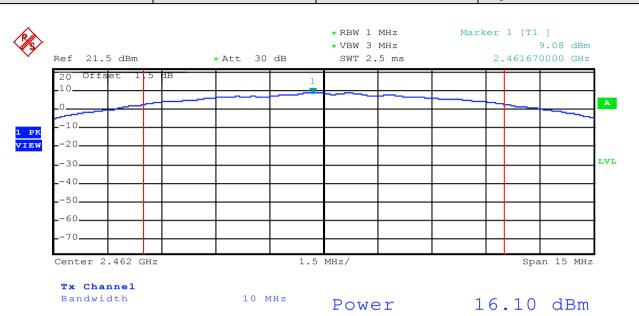
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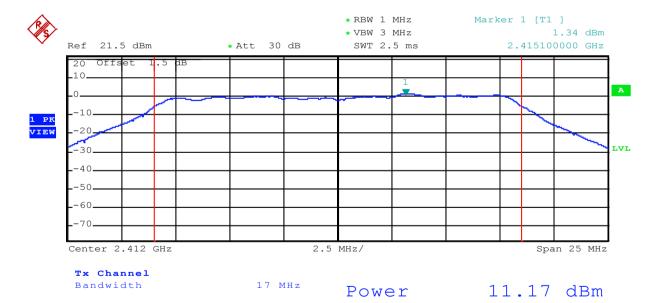
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Test mode: 802.11b Test channel: Highest



| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|
| | | | |



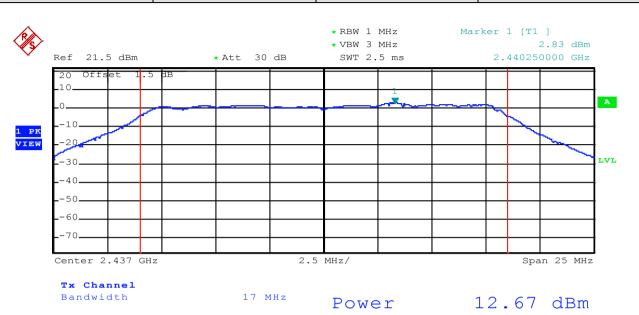
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest



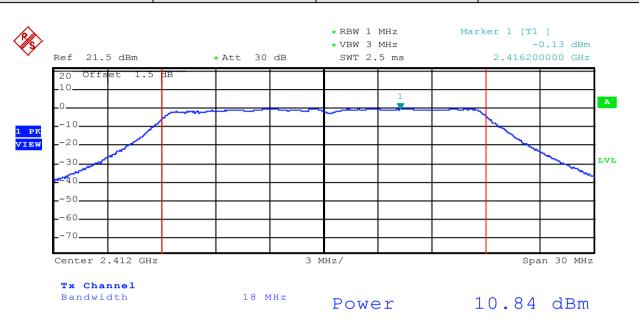
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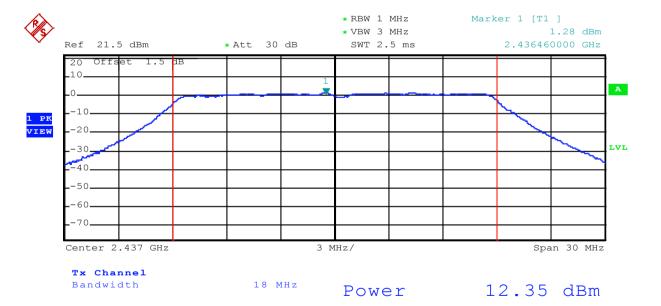
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Test mode: 802.11n(HT20) Test channel: Lowest



| Test mode: | 802.11n(HT20) | Test channel: | Middle |
|------------|---------------|---------------|--------|
| | •• | | |



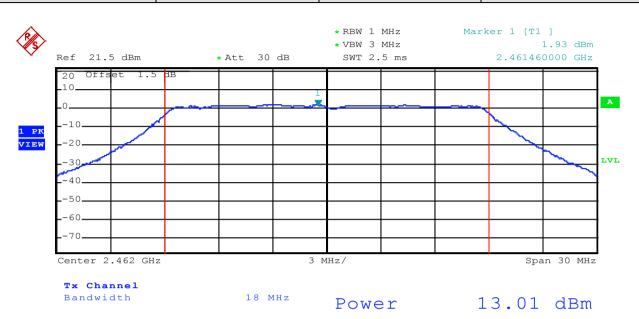
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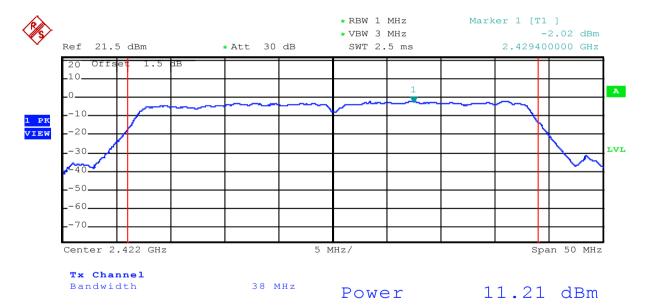
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Test mode: 802.11n(HT20) Test channel: Highest



Test mode: 802.11n(HT40) Test channel: Lowest



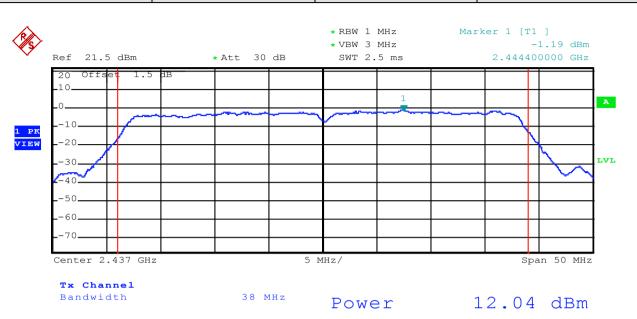
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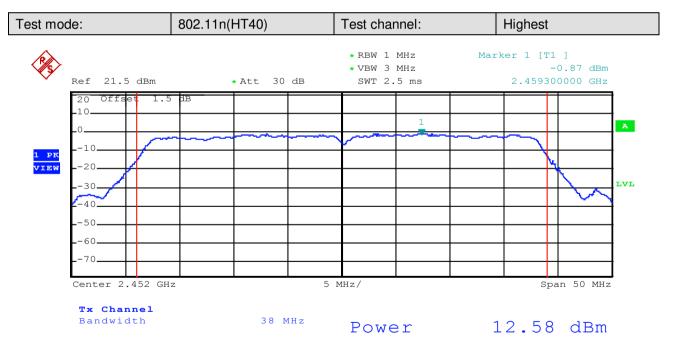


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Test mode: 802.11n(HT40) Test channel: Middle





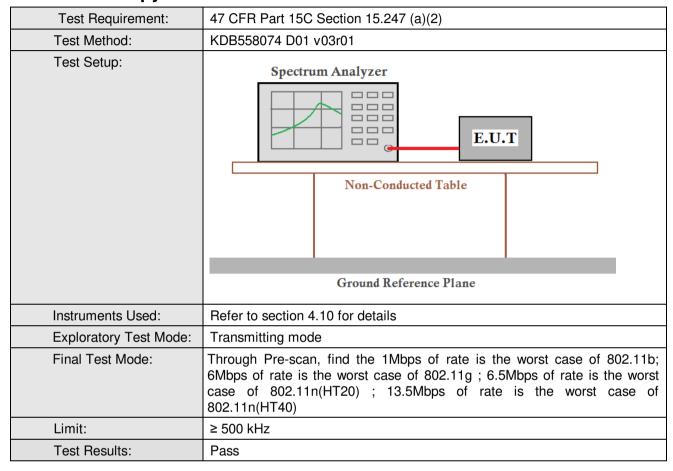
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5.4 6dB Occupy Bandwidth



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Measurement Data

| 000 11h mada | | | | | | | |
|--------------|----------------------------|-------------|--------|--|--|--|--|
| | 802.11b mode | | | | | | |
| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (kHz) | Result | | | | |
| Lowest | 9.42 | ≥500 | Pass | | | | |
| Middle | 9.42 | ≥500 | Pass | | | | |
| Highest | 9.42 | ≥500 | Pass | | | | |
| | 802.11g mode | | | | | | |
| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (kHz) | Result | | | | |
| Lowest | 16.62 | ≥500 | Pass | | | | |
| Middle | 16.62 | ≥500 | Pass | | | | |
| Highest | 16.56 | ≥500 | Pass | | | | |
| | 802.11n(HT20) mode | | | | | | |
| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (kHz) | Result | | | | |
| Lowest | 17.82 | ≥500 | Pass | | | | |
| Middle | 17.82 | ≥500 | Pass | | | | |
| Highest | 17.82 | ≥500 | Pass | | | | |
| | 802.11n(HT40)mode | | | | | | |
| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (kHz) | Result | | | | |
| Lowest | 36.50 | ≥500 | Pass | | | | |
| Middle | 36.70 | ≥500 | Pass | | | | |
| Highest | 36.50 | ≥500 | Pass | | | | |



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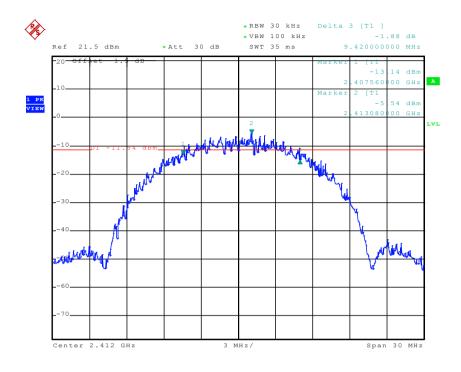


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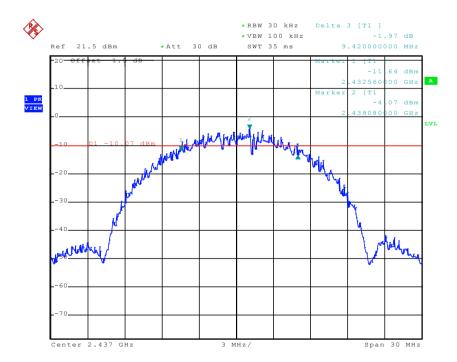
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle



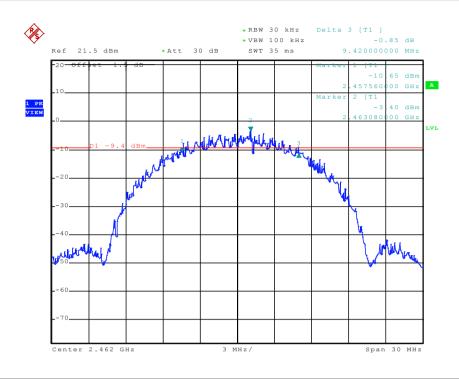
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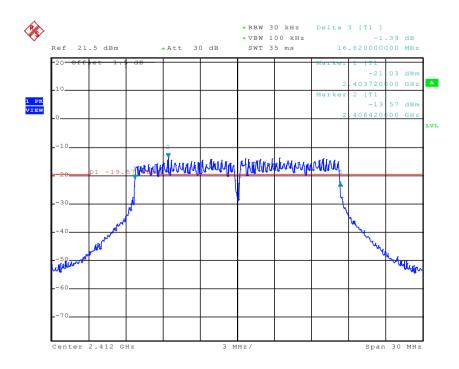
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest



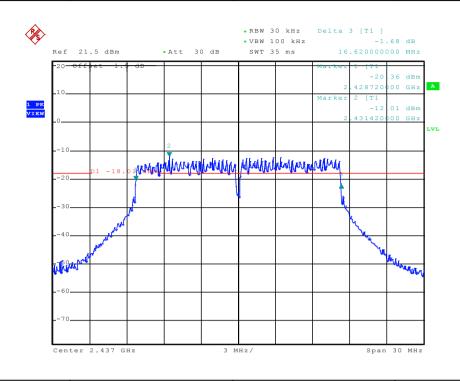
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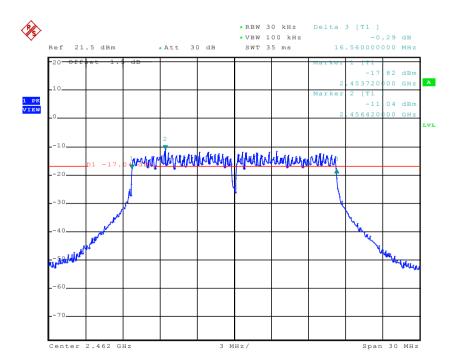
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest



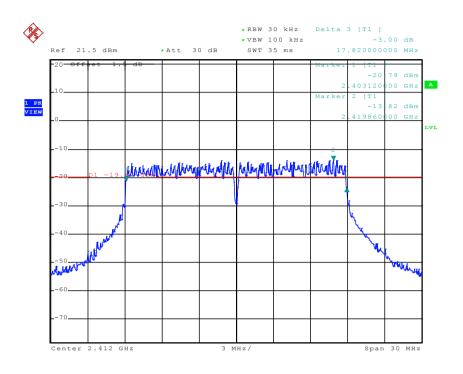
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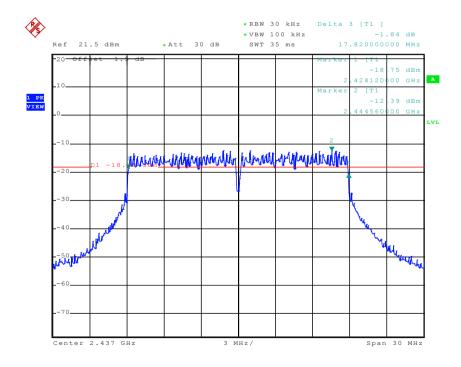
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Test mode: 802.11n(HT20) Test channel: Lowest







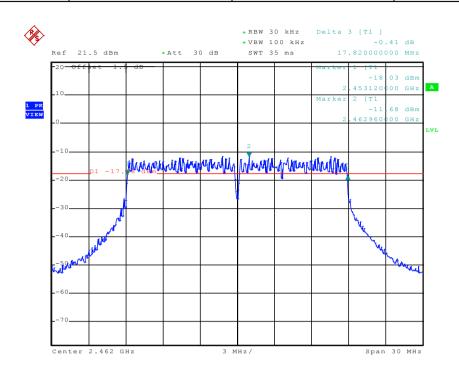
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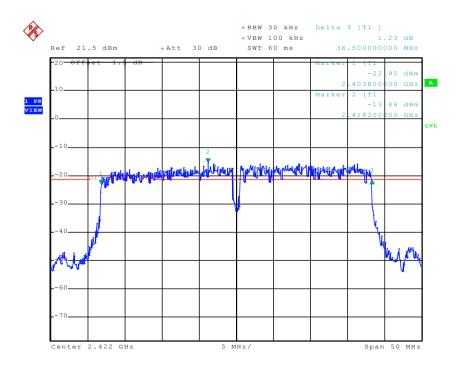
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Test mode: 802.11n(HT20) Test channel: Highest







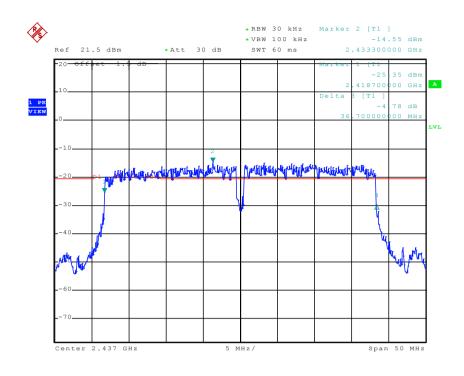
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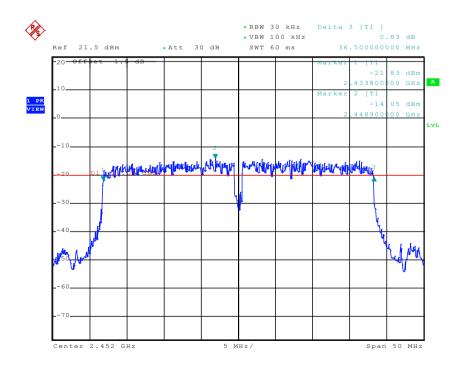
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Test mode: 802.11n(HT40) Test channel: Middle



Test mode: 802.11n(HT40) Test channel: Highest



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5.5 Power Spectral Density

| Test Requirement: | 47 CFR Part 15C Section 15.247 (e) | | |
|------------------------|--|--|--|
| Test Method: | KDB558074 D01 v03r01 | | |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. | | |
| Test Instruments: | Refer to section 4.10 for details | | |
| Exploratory Test Mode: | Transmitting mode | | |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) | | |
| Limit: | ≤8.00dBm | | |
| Test Results: | Pass | | |

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Measurement Data

| 802.11b mode | | | | | | | |
|--------------|------------------------------|-------------|--------|--|--|--|--|
| Test channel | Power Spectral Density (dBm) | Limit (dBm) | Result | | | | |
| Lowest | -14.35 | ≤8.00 | Pass | | | | |
| Middle | -12.97 | ≤8.00 | Pass | | | | |
| Highest | -12.39 | ≤8.00 | Pass | | | | |
| | 802.11g mode | | | | | | |
| Test channel | Power Spectral Density (dBm) | Limit (dBm) | Result | | | | |
| Lowest | -23.40 | ≤8.00 | Pass | | | | |
| Middle | -21.78 | ≤8.00 | Pass | | | | |
| Highest | -21.53 | ≤8.00 | Pass | | | | |
| | 802.11n(HT20) mode | | | | | | |
| Test channel | Power Spectral Density (dBm) | Limit (dBm) | Result | | | | |
| Lowest | -23.63 | ≤8.00 | Pass | | | | |
| Middle | -22.56 | ≤8.00 | Pass | | | | |
| Highest | -21.54 | ≤8.00 | Pass | | | | |
| | 802.11n(HT40) mode | | | | | | |
| Test channel | Power Spectral Density (dBm) | Limit (dBm) | Result | | | | |
| Lowest | -24.90 | ≤8.00 | Pass | | | | |
| Middle | -24.18 | ≤8.00 | Pass | | | | |
| Highest | -23.70 | ≤8.00 | Pass | | | | |

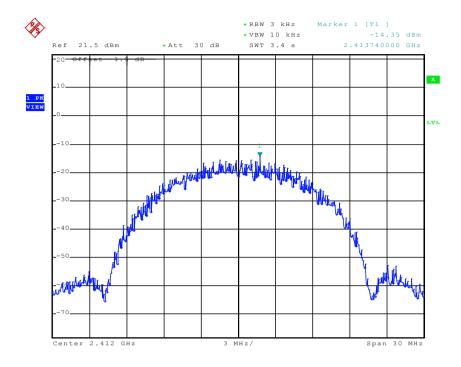


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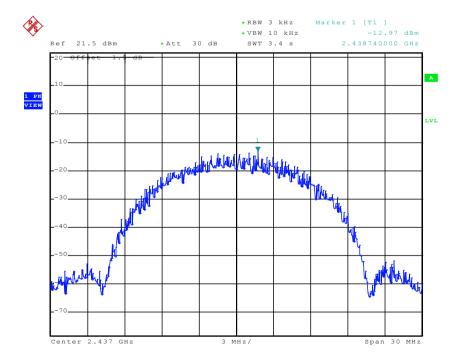
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle



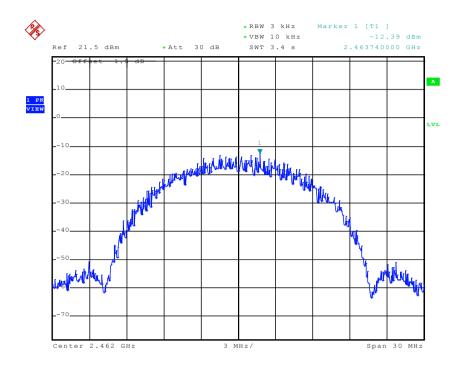
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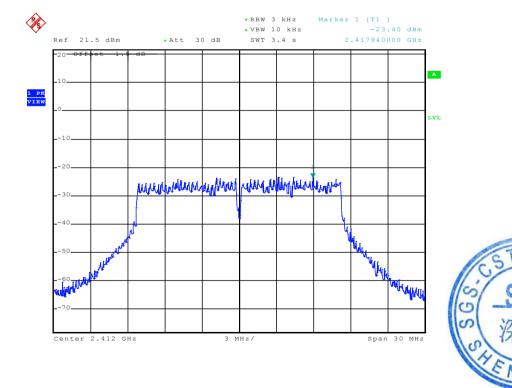
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest



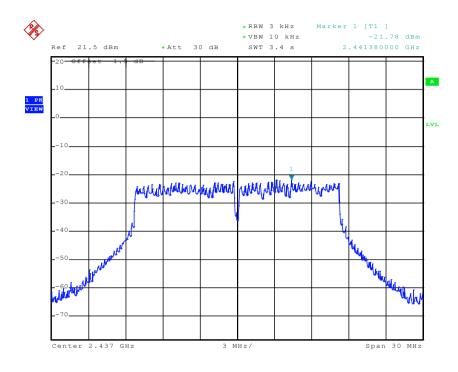
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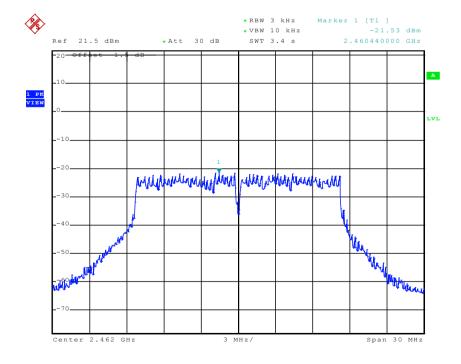
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Test mode: 802.11g Test channel: Middle







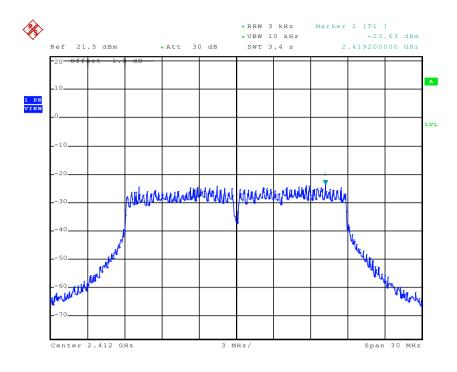
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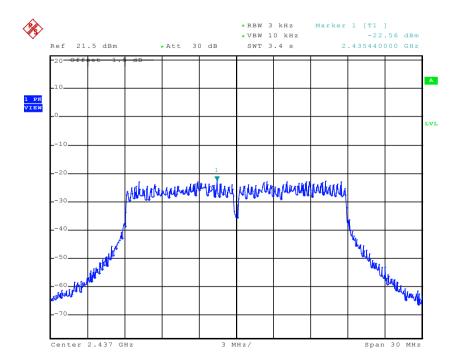
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Test mode: 802.11n (HT20) Test channel: Lowest







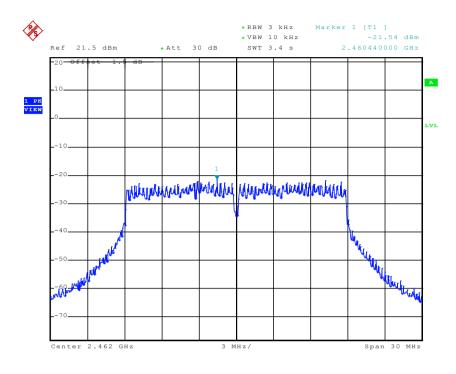
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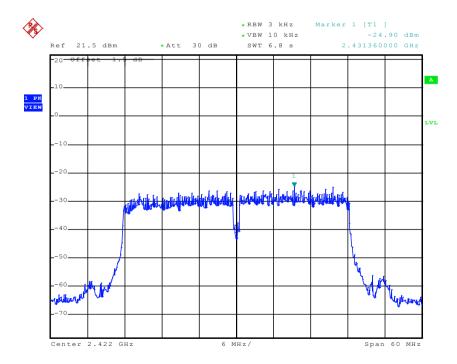
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Test mode: 802.11n (HT20) Test channel: Highest







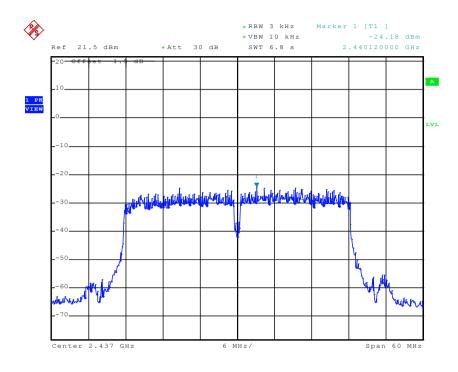
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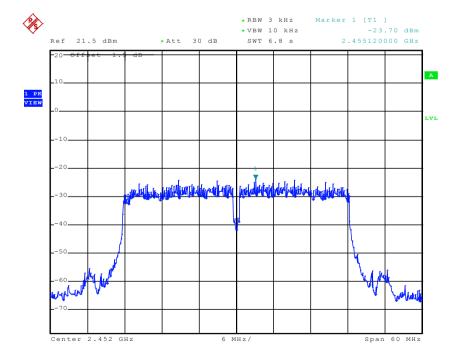
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Test mode: 802.11n (HT40) Test channel: Middle







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5.6 Band-edge for RF Conducted Emissions

| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) | | | | |
|------------------------|--|--|--|--|--|
| Test Method: | KDB558074 D01 v03r01 | | | | |
| Test Setup: | Spectrum Analyzer Non-Conducted Table Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. | | | | |
| Exploratory Test Mode: | Transmitting mode | | | | |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) | | | | |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread | | | | |
| | spectrum 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. | | | | |
| Instruments Used: | Refer to section 4.10 for details | | | | |
| Test Results: | Pass | | | | |

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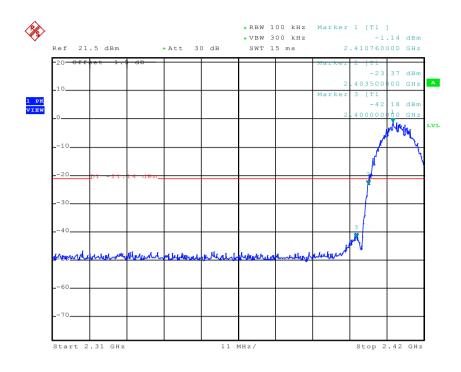


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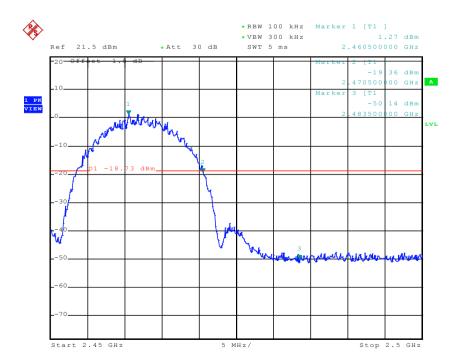
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Highest



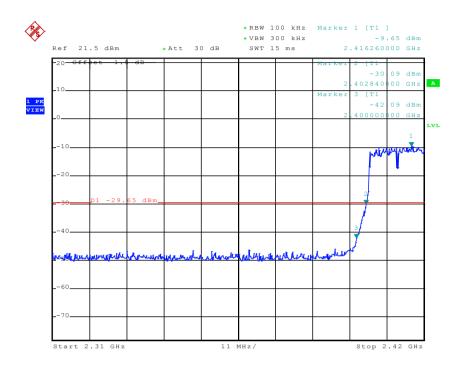
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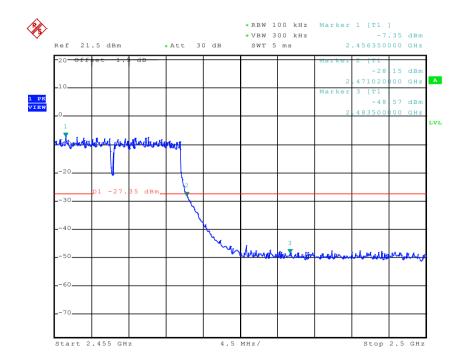
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Test mode: 802.11g Test channel: Lowest







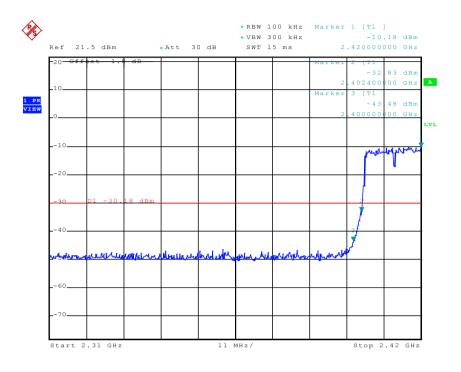
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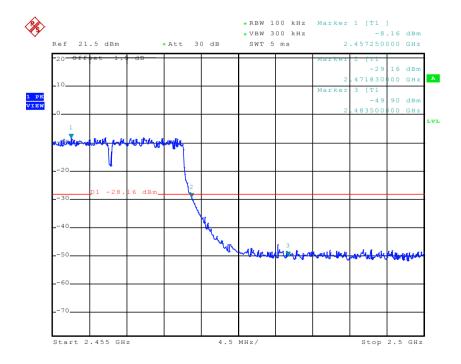
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Test mode: 802.11n (HT20) Test channel: Lowest







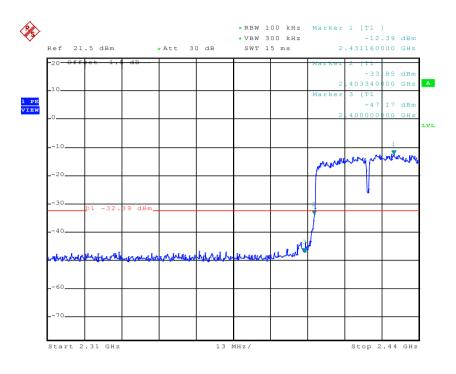
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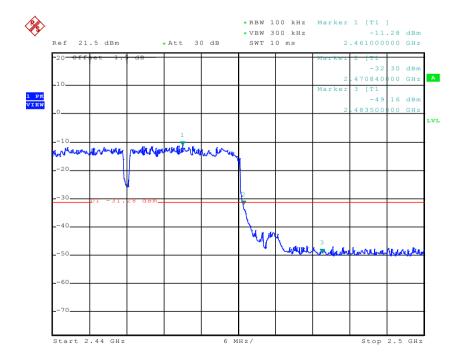
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Test mode: 802.11n (HT40) Test channel: Lowest







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5.7 RF Conducted Spurious Emissions

| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) | | | | |
|------------------------|---|--|--|--|--|
| Test Method: | KDB558074 D01 v03r01 | | | | |
| Test Setup: | Spectrum Analyzer Non-Conducted Table Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. | | | | |
| Exploratory Test Mode: | | | | | |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) | | | | |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. | | | | |
| Instruments Used: | Refer to section 4.10 for details | | | | |
| Test Results: | Pass | | | | |



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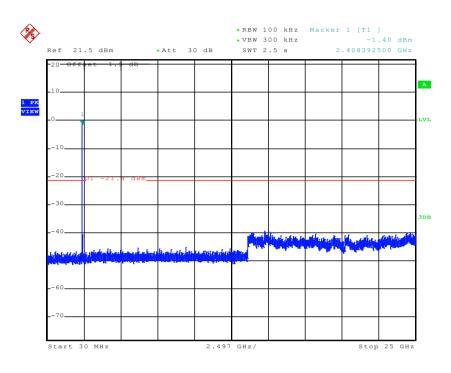


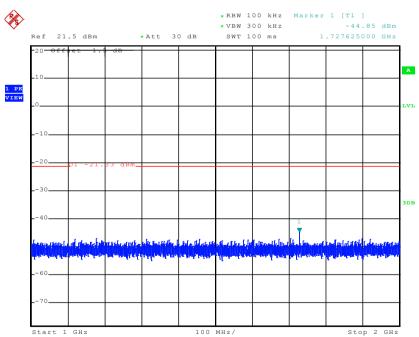
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



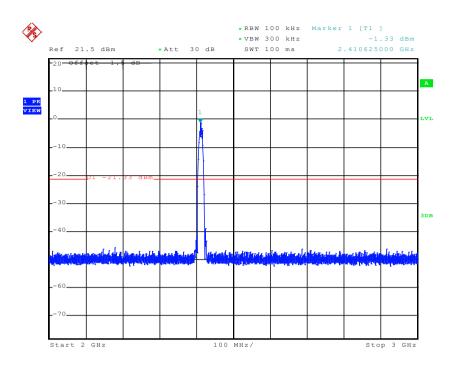


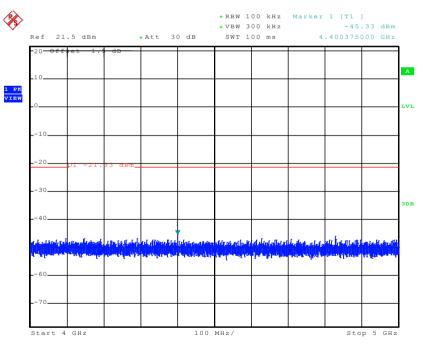
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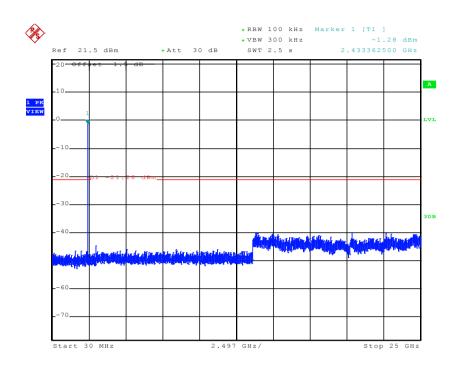
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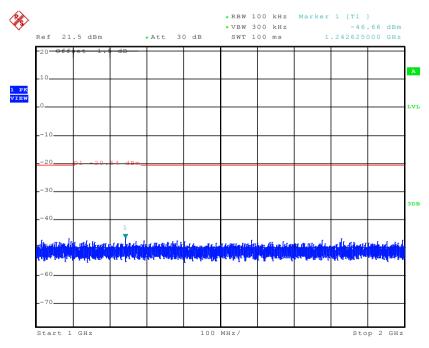


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Test mode: 802.11b Test channel: Middle



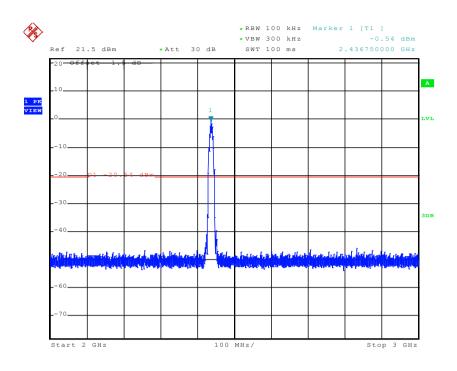


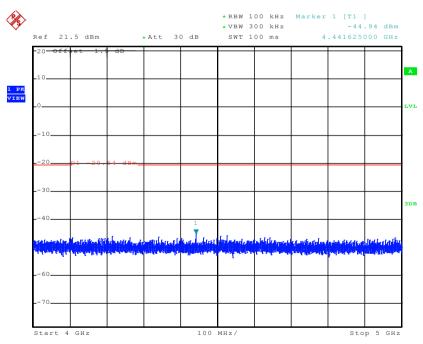
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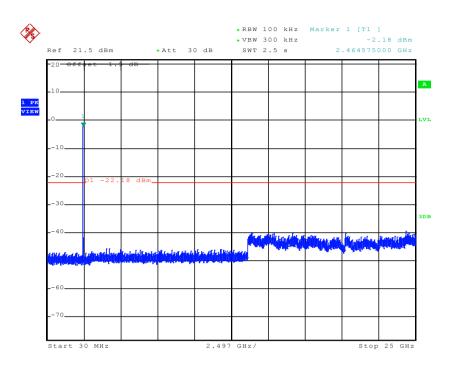
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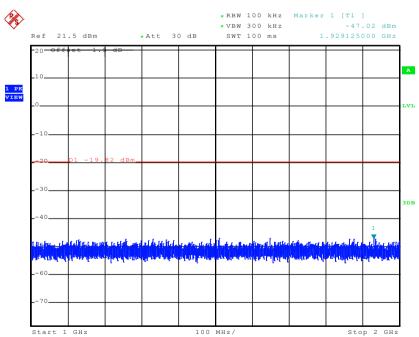


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Test mode: 802.11b Test channel: Highest



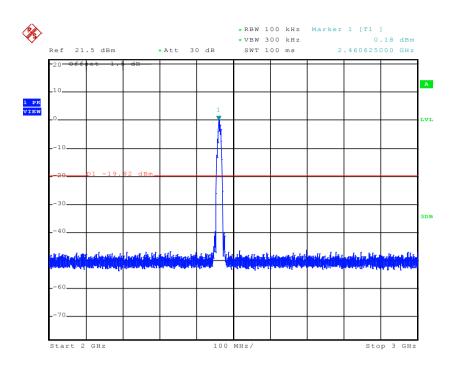


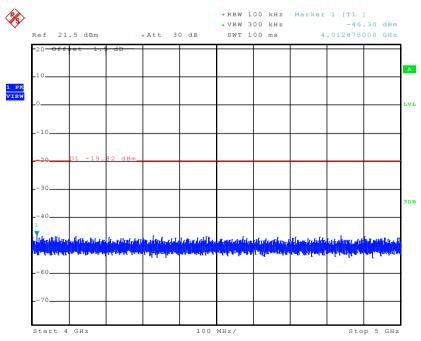
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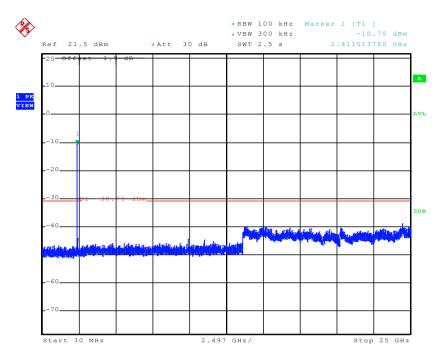
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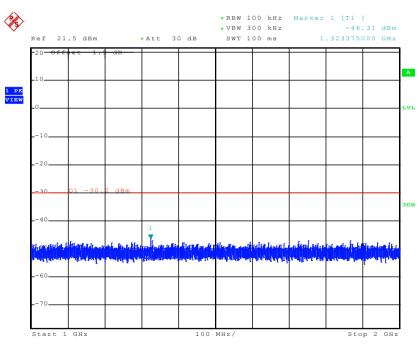


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Test mode: 802.11g Test channel: Lowest



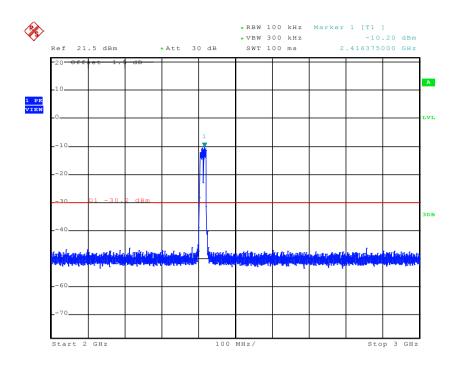


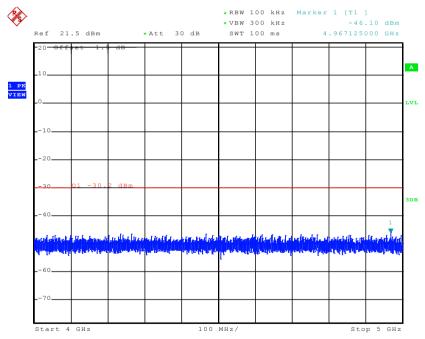
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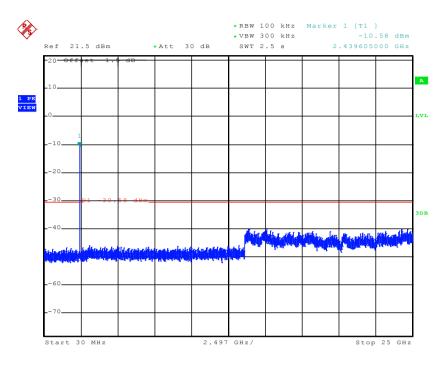
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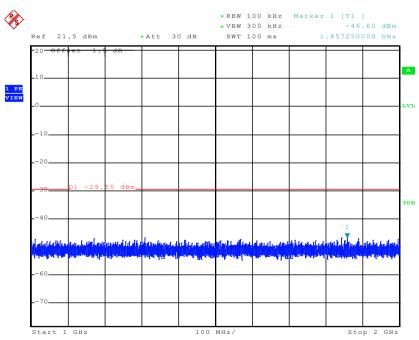


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Test mode: 802.11g Test channel: Middle





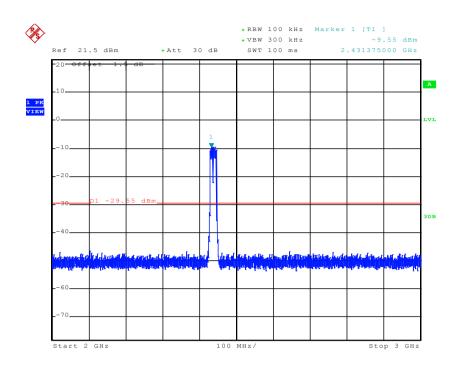
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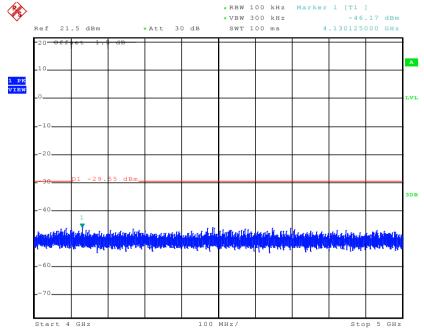
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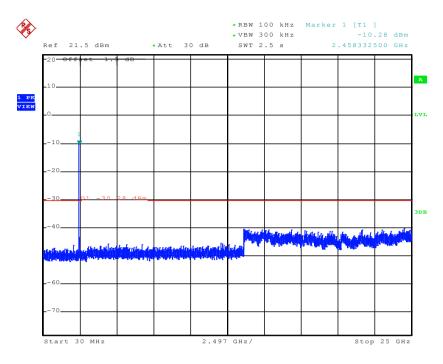
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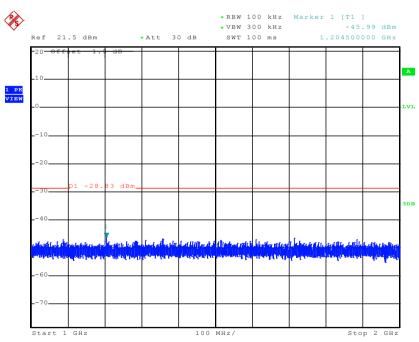


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Test mode: 802.11g Test channel: Highest



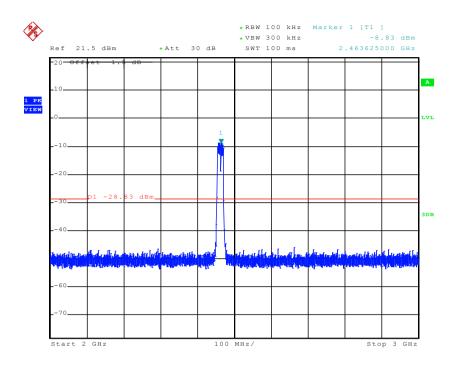


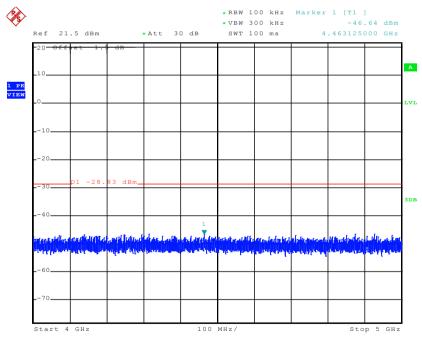
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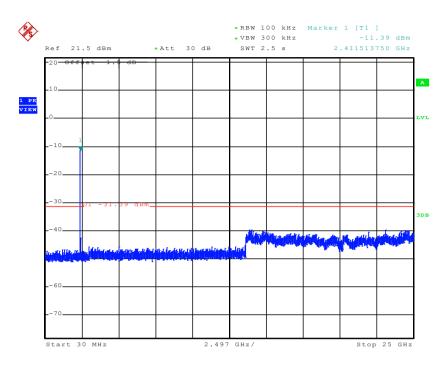
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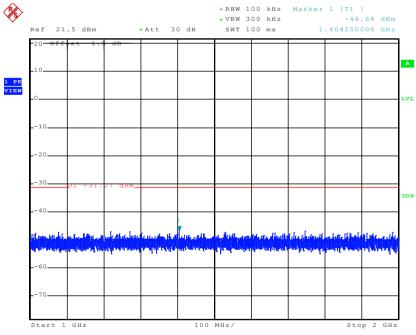


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Test mode: 802.11n (HT20) Test channel: Lowest



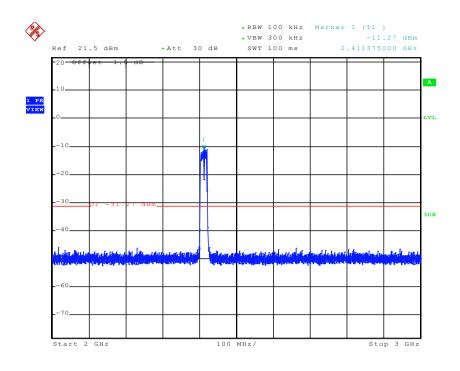


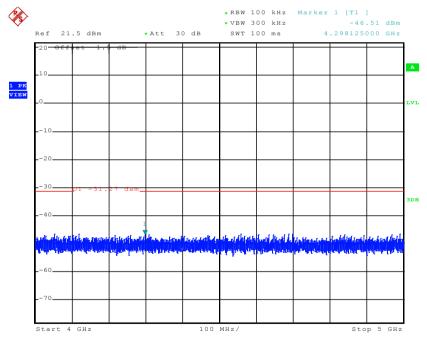
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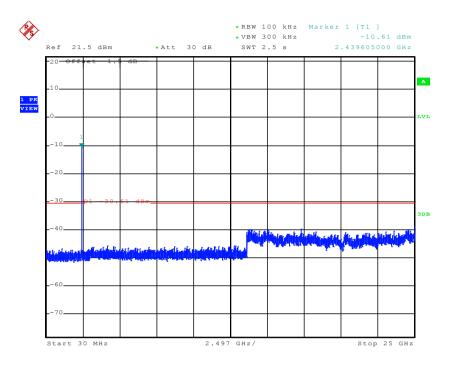
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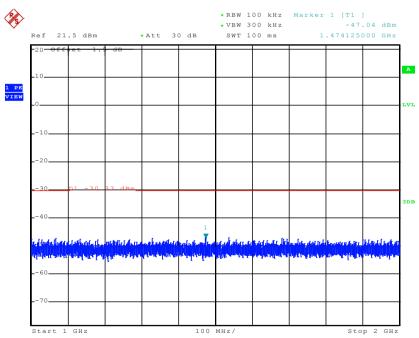


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Test mode: 802.11n (HT20) Test channel: Middle



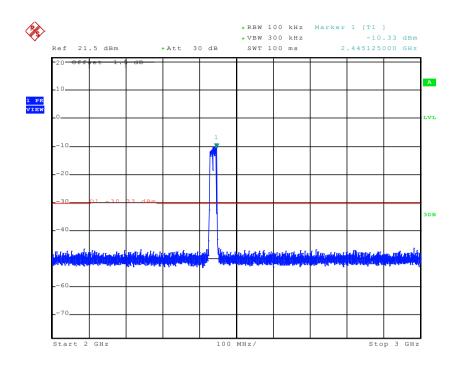


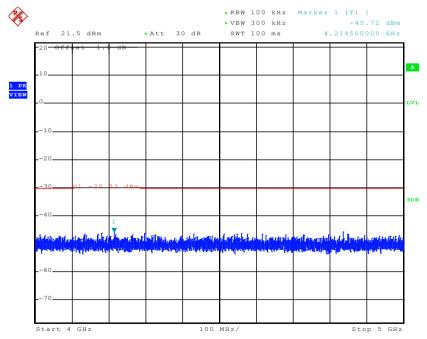
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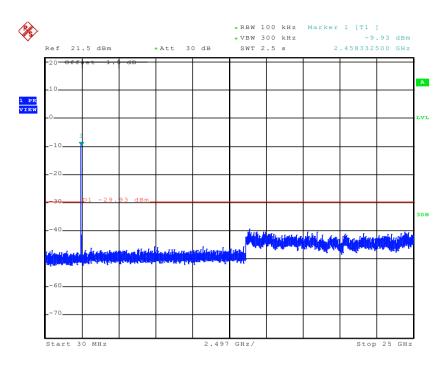
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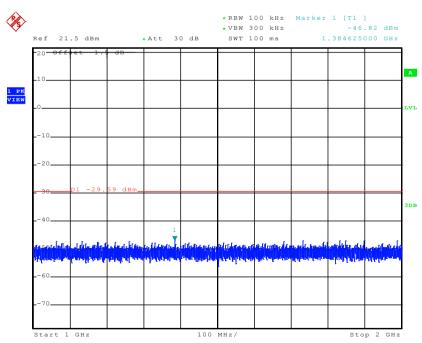


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Test mode: 802.11n (HT20) Test channel: Highest



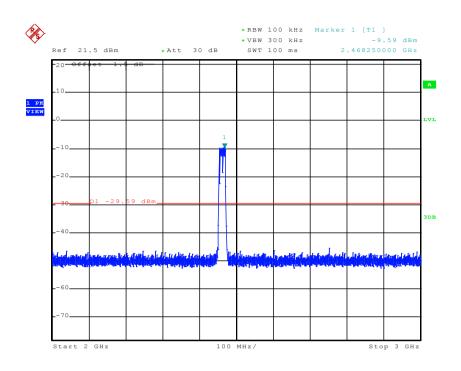


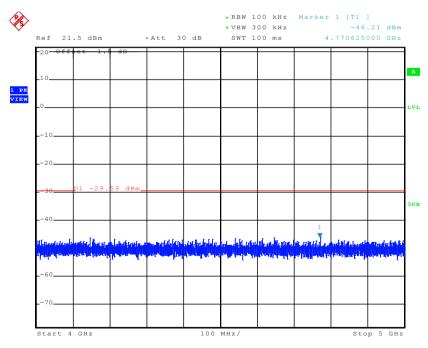
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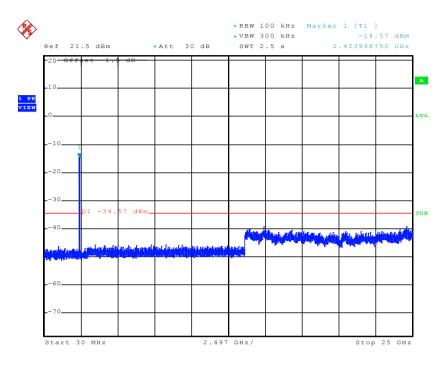
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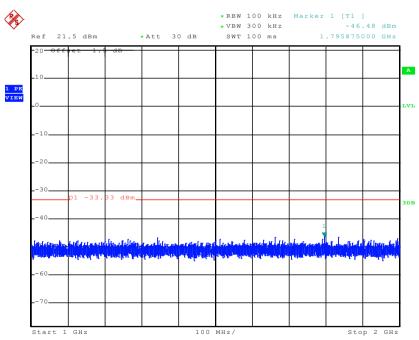


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Test mode: 802.11n (HT40) Test channel: Lowest



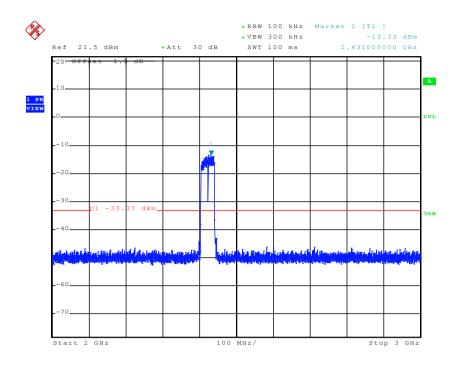


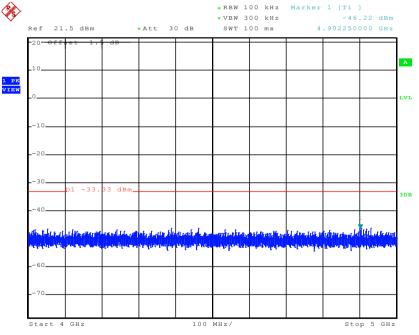
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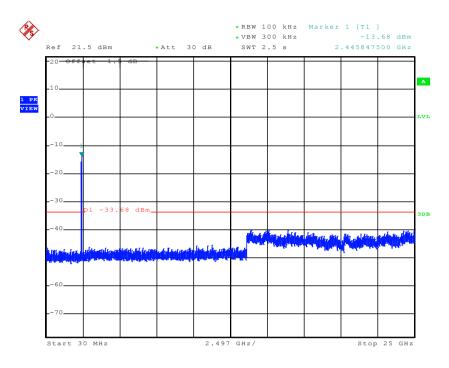
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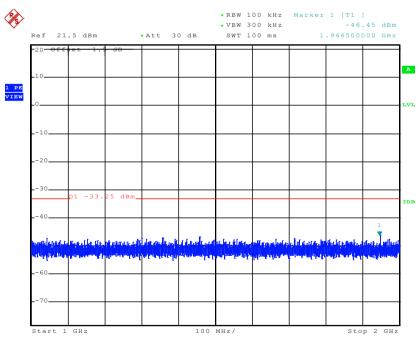


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Test mode: 802.11n (HT40) Test channel: Middle



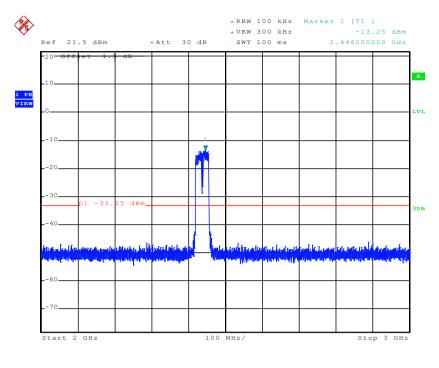


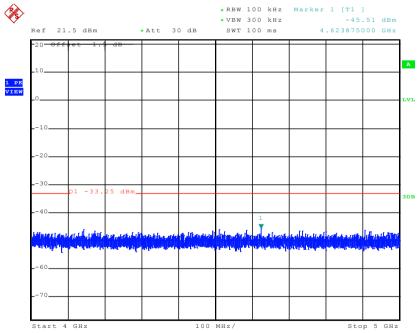
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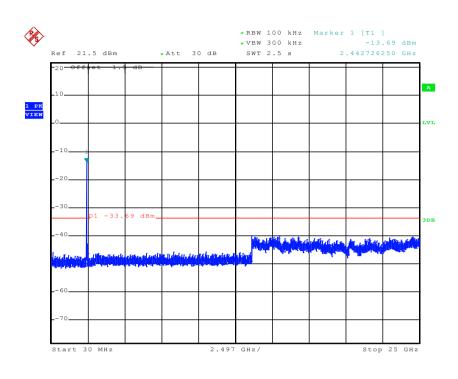
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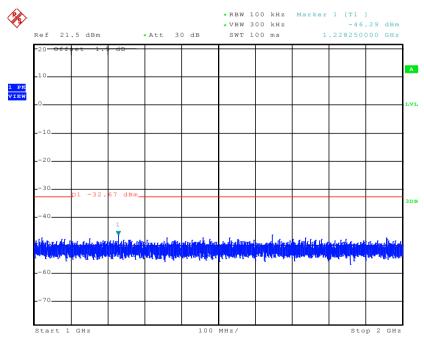


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Test mode: 802.11n (HT40) Test channel: Highest



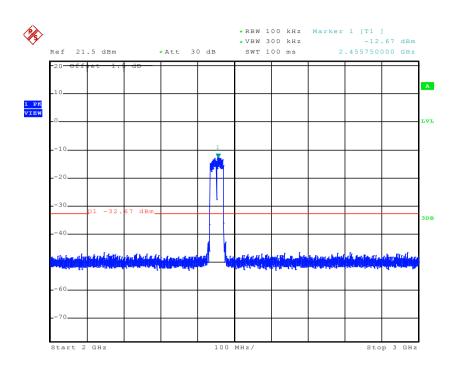


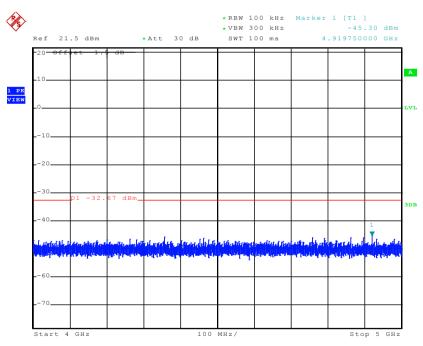
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Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report.

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5.8 Radiated Spurious Emissions

| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205 | | | | | | |
|-------------------|--|----------------------------------|-------------------|------------|--------------------------|--|--|
| Test Method: | ANSI C63.10 2009 | | | | | | |
| Test Site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | | | |
| Receiver Setup: | Frequency | Detector | RBW | VBW | Remark | | |
| | 0.009MHz-0.090MHz | Peak | 10kHz | 30kHz | Peak | | |
| | 0.009MHz-0.090MHz | Average | 10kHz | 30kHz | Average | | |
| | 0.090MHz-0.110MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak | | |
| | 0.110MHz-0.490MHz | Peak | 10kHz | 30kHz | Peak | | |
| | 0.110MHz-0.490MHz | Average | 10kHz | 30kHz | Average | | |
| | 0.490MHz -30MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak | | |
| | 30MHz-1GHz | Quasi-peak | 100 kHz | 300kHz | Quasi-peak | | |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak | | |
| | | Peak | 1MHz | 10Hz | Average | | |
| Limit: | Frequency | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) | | |
| | 0.009MHz-0.490MHz | 2400/F(kHz) | - | - | 300 | | |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | - | - | 30 | | |
| | 1.705MHz-30MHz | 30 | - | - | 30 | | |
| | 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 | | |
| | 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 | | |
| | 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 | | |
| | 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 | | |
| | Above 1GHz | 500 | 54.0 | Average | 3 | | |
| | Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak | | | | | | |
| | emission level radiated by the device. | | | | | | |

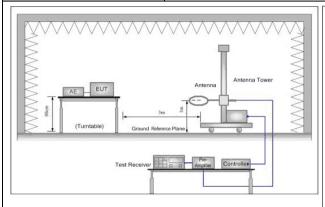
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Test Setup:



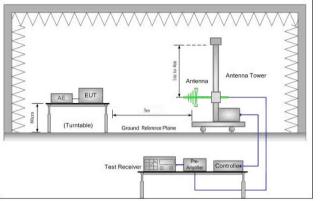


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

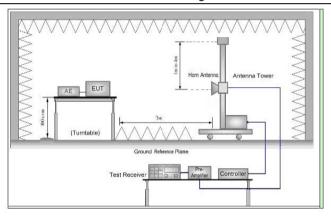


Figure 3. Above 1 GHz

Test Procedure:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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

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| | method as specified and then reported in a data sheet. | | | | | |
|-------------------|--|--|--|--|--|--|
| | g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel | | | | | |
| | The radiation measurements are performed in X, Y, Z axis positioning Transmitting mode, And found the X axis positioning which it is worse case. | | | | | |
| | i. Repeat above procedures until all frequencies measured was complete. | | | | | |
| Exploratory Test | Transmitting mode, AC charge +Transmitting mode | | | | | |
| Mode: | | | | | | |
| Final Test Mode: | Pretest the EUT at Transmitting mode and AC charge +Transmitting mode, found the AC charge +Transmitting mode which it is worse case. | | | | | |
| | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) | | | | | |
| | Only the worst case is recorded in the report. | | | | | |
| Instruments Used: | Refer to section 4.10 for details | | | | | |
| Test Results: | Pass | | | | | |

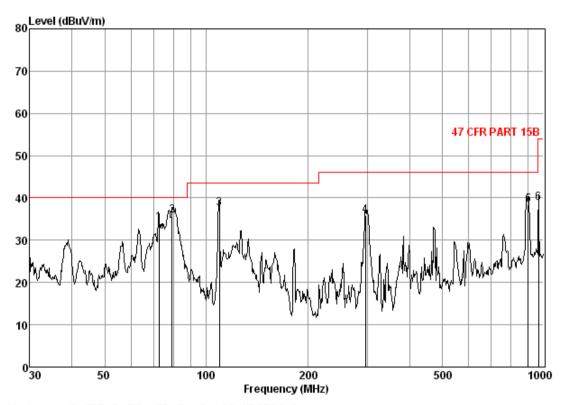


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5.8.1 Radiated emission below 1GHz

| 30MHz~1GHz (QP) | | | | | | | |
|-----------------|------------------------------|----------|--|--|--|--|--|
| Test mode: | AC charge +Transmitting mode | Vertical | | | | | |



Condition: 47 CFR PART 15B 3m 3142C VERTICAL

Job No. : 2548RF

Mode : AC Charge+TX mode

| | Freq | | | Preamp Factor | | | Limit Line | Over Limit |
|-----------------------|---|--------------------------------------|--|--|--|----------------------------|----------------------------|--|
| | MHz | dB | dB/m | dB | dBuV | $\overline{\text{dBuV/m}}$ | $\overline{\text{dBuV/m}}$ | dB |
| 1 2 3 4 5 | 72. 34 79. 24 109. 41 296. 18 900. 15 | 0.87 1.08 1.23 1.88 3.60 | 4. 71 5. 12 7. 49 9. 54 20. 20 | 27. 24 27. 23 27. 14 26. 41 26. 78 | 55. 89 56. 89 55. 87 50. 81 41. 31 | | 46.00 | -5.77 -4.14 -6.05 -10.18 -7.67 |
| 6 | 965.54 | | 21.13 | 26. 47 | 40.48 | 38.81 | | -15.19 |

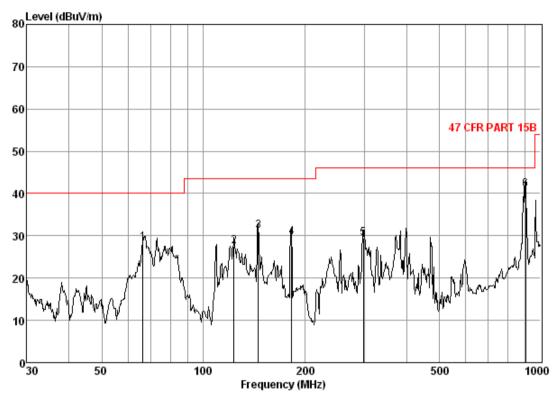
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| Test mode: AC charge +Transmitting mode | Horizontal |
|---|------------|
|---|------------|



Condition: 47 CFR PART 15B 3m 3142C HORIZONTAL

Job No. : 2548RF

Mode : AC Charge+TX mode

| | Freq | | | Preamp Factor | | | | Over Limit |
|-----------------------|---|--|---|--------------------------------------|-------------------------|--|----------------------------------|---|
| _ | MHz | dB | _dB/m | dB | dBuV | $\overline{\text{dBuV/m}}$ | $\overline{\text{dBuV/m}}$ | dB |
| 1 2 3 4 5 | 66. 27 123. 27 145. 35 182. 56 298. 27 903. 31 | 0.80 1.26 1.31 1.37 1.89 3.60 | 4.38 7.85 9.00 6.70 9.62 20.23 | 27. 05 26. 93 26. 77 26. 41 | 47.68 48.33 44.36 | 28.36 27.56 31.06 29.63 29.46 41.01 | 43.50 43.50 43.50 46.00 | -11.64 -15.94 -12.44 -13.87 -16.54 -4.99 |

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5.8.2 Transmitter emission above 1GHz

| Test mode: | 802 | .11b | Test ch | annel: | Lowest | Remark | | Peak |
|-----------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|------------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarizatio n |
| 1124.226 | 3.56 | 27.42 | 39.20 | 56.77 | 48.55 | 74 | -25.45 | Vertical |
| 1479.955 | 3.88 | 28.07 | 39.34 | 60.24 | 52.85 | 74 | -21.15 | Vertical |
| 2678.135 | 4.81 | 32.96 | 40.06 | 55.60 | 53.31 | 74 | -20.69 | Vertical |
| 4824.000 | 7.45 | 34.68 | 41.64 | 45.96 | 46.45 | 74 | -27.55 | Vertical |
| 7236.000 | 8.76 | 35.90 | 39.85 | 44.75 | 49.56 | 74 | -24.44 | Vertical |
| 9648.000 | 9.69 | 37.36 | 37.76 | 42.69 | 51.98 | 74 | -22.02 | Vertical |
| 1468.696 | 3.88 | 28.07 | 39.34 | 60.06 | 52.67 | 74 | -21.33 | Horizontal |
| 2957.654 | 5.02 | 33.33 | 40.27 | 55.65 | 53.73 | 74 | -20.27 | Horizontal |
| 4191.816 | 6.70 | 34.36 | 41.18 | 53.19 | 53.07 | 74 | -20.93 | Horizontal |
| 4824.000 | 7.45 | 34.68 | 41.64 | 49.36 | 49.85 | 74 | -24.15 | Horizontal |
| 7236.000 | 8.76 | 35.90 | 39.85 | 47.26 | 52.07 | 74 | -21.93 | Horizontal |
| 9648.000 | 9.69 | 37.36 | 37.76 | 41.34 | 50.63 | 74 | -23.37 | Horizontal |

| Test mode: | 802 | .11b | Test cha | annel: | Middle | Remark | • | Peak |
|-----------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|------------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarizatio n |
| 1104.371 | 3.54 | 27.39 | 39.18 | 55.81 | 47.56 | 74 | -26.44 | Vertical |
| 1468.696 | 3.88 | 28.07 | 39.34 | 60.15 | 52.76 | 74 | -21.24 | Vertical |
| 2957.654 | 5.02 | 33.33 | 40.27 | 53.73 | 51.81 | 74 | -22.19 | Vertical |
| 4874.000 | 7.48 | 34.59 | 41.68 | 48.02 | 48.41 | 74 | -25.59 | Vertical |
| 7311.000 | 8.85 | 35.92 | 39.79 | 47.12 | 52.10 | 74 | -21.90 | Vertical |
| 9748.000 | 9.74 | 37.46 | 37.68 | 43.40 | 52.92 | 74 | -21.08 | Vertical |
| 1479.955 | 3.88 | 28.07 | 39.34 | 54.67 | 47.28 | 74 | -26.72 | Horizontal |
| 2957.654 | 5.02 | 33.33 | 40.27 | 49.80 | 47.88 | 74 | -26.12 | Horizontal |
| 4874.000 | 7.48 | 34.59 | 41.68 | 47.37 | 47.76 | 74 | -26.24 | Horizontal |
| 7311.000 | 8.85 | 35.92 | 39.79 | 45.47 | 50.45 | 74 | -23.55 | Horizontal |
| 9748.000 | 9.74 | 37.46 | 37.68 | 41.42 | 50.94 | 74 | -23.06 | Horizonta |
| 11963.890 | 11.26 | 38.87 | 38.26 | 40.52 | 52.39 | 74 | -21.61 | Horizontal |

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| Test mode: | 802 | .11b | Test ch | annel: | Highest | Remark | Remark: | |
|-----------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|------------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarizatio n |
| 1115.673 | 3.56 | 27.42 | 39.19 | 54.05 | 45.84 | 74 | -28.16 | Vertical |
| 1468.696 | 3.88 | 28.07 | 39.34 | 60.59 | 53.20 | 74 | -20.80 | Vertical |
| 2995.538 | 5.05 | 33.38 | 40.30 | 50.77 | 48.90 | 74 | -25.10 | Vertical |
| 4924.000 | 7.51 | 34.51 | 41.72 | 47.35 | 47.65 | 74 | -26.35 | Vertical |
| 7386.000 | 8.94 | 35.96 | 39.72 | 44.89 | 50.07 | 74 | -23.93 | Vertical |
| 9848.000 | 9.78 | 37.54 | 37.58 | 42.83 | 52.57 | 74 | -21.43 | Vertical |
| 1468.696 | 3.88 | 28.07 | 39.34 | 58.73 | 51.34 | 74 | -22.66 | Horizontal |
| 2957.654 | 5.02 | 33.33 | 40.27 | 50.63 | 48.71 | 74 | -25.29 | Horizontal |
| 4924.000 | 7.51 | 34.51 | 41.72 | 48.50 | 48.80 | 74 | -25.20 | Horizontal |
| 7386.000 | 8.94 | 35.96 | 39.72 | 44.17 | 49.35 | 74 | -24.65 | Horizontal |
| 9848.000 | 9.78 | 37.54 | 37.58 | 40.64 | 50.38 | 74 | -23.62 | Horizontal |
| 12086.330 | 11.32 | 38.99 | 38.31 | 41.17 | 53.17 | 74 | -20.83 | Horizontal |

| Test mode: | 8 | 302.11g | | Test channel: | | Lowest | Remark | (: | Peak |
|-----------------|----------------------|---------|----------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|------------------|
| Frequency (MHz) | Cabl Loss (dB) | s Fa | enna ctor 3/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarizatio n |
| 1115.673 | 3.56 | 3 27 | '.42 | 39.19 | 54.48 | 46.27 | 74 | -27.73 | Vertical |
| 1498.912 | 3.89 | 28 | 3.10 | 39.35 | 59.62 | 52.26 | 74 | -21.74 | Vertical |
| 2678.135 | 4.81 | 32 | 2.96 | 40.06 | 55.17 | 52.88 | 74 | -21.12 | Vertical |
| 4824.000 | 7.45 | 5 34 | .68 | 41.64 | 47.21 | 47.70 | 74 | -26.30 | Vertical |
| 7236.000 | 8.76 | 35 | 5.90 | 39.85 | 46.06 | 50.87 | 74 | -23.13 | Vertical |
| 9648.000 | 9.69 | 37 | '.36 | 37.76 | 43.14 | 52.43 | 74 | -21.57 | Vertical |
| 1182.943 | 3.62 | 2 27 | '.54 | 39.22 | 51.77 | 43.71 | 74 | -30.29 | Horizontal |
| 1483.727 | 3.88 | 3 28 | 3.07 | 39.34 | 55.09 | 47.70 | 74 | -26.30 | Horizontal |
| 2957.654 | 5.02 | 2 33 | 3.33 | 40.27 | 51.61 | 49.69 | 74 | -24.31 | Horizontal |
| 4824.000 | 7.45 | 5 34 | .68 | 41.64 | 47.21 | 47.70 | 74 | -26.30 | Horizontal |
| 7236.000 | 8.76 | 35 | 5.90 | 39.85 | 45.72 | 50.53 | 74 | -23.47 | Horizontal |
| 9648.000 | 9.69 | 37 | '.36 | 37.76 | 42.67 | 51.96 | 74 | -22.04 | Horizontal |

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| Test mode: | 802 | .11g | Test ch | annel: | Middle | Remark | : | Peak |
|--------------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|------------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarizatio n |
| 1115.673 | 3.56 | 27.42 | 39.19 | 54.05 | 45.84 | 74 | -28.16 | Vertical |
| 1479.955 | 3.88 | 28.07 | 39.34 | 60.70 | 53.31 | 74 | -20.69 | Vertical |
| 2698.665 | 4.82 | 32.98 | 40.07 | 51.69 | 49.42 | 74 | -24.58 | Vertical |
| 4874.000 | 7.48 | 34.59 | 41.68 | 46.02 | 46.41 | 74 | -27.59 | Vertical |
| 7311.000 | 8.85 | 35.92 | 39.79 | 45.56 | 50.54 | 74 | -23.46 | Vertical |
| 9748.000 | 9.74 | 37.46 | 37.68 | 42.31 | 51.83 | 74 | -22.17 | Vertical |
| 1498.912 | 3.89 | 28.10 | 39.35 | 54.25 | 46.89 | 74 | -27.11 | Horizontal |
| 2957.654 | 5.02 | 33.33 | 40.27 | 45.90 | 43.98 | 74 | -30.02 | Horizontal |
| 4191.816 | 6.70 | 34.36 | 41.18 | 48.96 | 48.84 | 74 | -25.16 | Horizontal |
| 4874.000 | 7.48 | 34.59 | 41.68 | 47.30 | 47.69 | 74 | -26.31 | Horizontal |
| 7311.000 | 8.85 | 35.92 | 39.79 | 45.81 | 50.79 | 74 | -23.21 | Horizontal |
| 9748.000 | 9.74 | 37.46 | 37.68 | 42.28 | 51.80 | 74 | -22.20 | Horizontal |

| Test mode: 802 | | .11g | Test ch | annel: | Highest | Remark | : | Peak |
|-----------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 1112.837 | 3.56 | 27.42 | 39.19 | 54.86 | 46.65 | 74 | -27.35 | Vertical |
| 1468.696 | 3.88 | 28.07 | 39.34 | 60.59 | 53.20 | 74 | -20.80 | Vertical |
| 2678.135 | 4.81 | 32.96 | 40.06 | 52.54 | 50.25 | 74 | -23.75 | Vertical |
| 4924.000 | 7.51 | 34.51 | 41.72 | 47.29 | 47.59 | 74 | -26.41 | Vertical |
| 7386.000 | 8.94 | 35.96 | 39.72 | 45.75 | 50.93 | 74 | -23.07 | Vertical |
| 9848.000 | 9.78 | 37.54 | 37.58 | 42.54 | 52.28 | 74 | -21.72 | Vertical |
| 1046.885 | 3.49 | 27.29 | 39.16 | 50.93 | 42.55 | 74 | -31.45 | Horizontal |
| 1468.696 | 3.88 | 28.07 | 39.34 | 53.78 | 46.39 | 74 | -27.61 | Horizontal |
| 4924.000 | 7.51 | 34.51 | 41.72 | 48.10 | 48.40 | 74 | -25.60 | Horizontal |
| 7386.000 | 8.94 | 35.96 | 39.72 | 45.68 | 50.86 | 74 | -23.14 | Horizontal |
| 9848.000 | 9.78 | 37.54 | 37.58 | 40.72 | 50.46 | 74 | -23.54 | Horizontal |
| 12086.330 | 11.32 | 38.99 | 38.31 | 40.49 | 52.49 | 74 | -21.51 | Horizontal |

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| Test mode | e: 80 | 2.11n (HT20) | Test ch | nannel: | Lowest | Remar | k: | Peak |
|--------------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 1115.673 | 3.56 | 27.42 | 39.19 | 52.01 | 43.80 | 74 | -30.20 | Vertical |
| 1479.955 | 3.88 | 28.07 | 39.34 | 60.06 | 52.67 | 74 | -21.33 | Vertical |
| 4824.000 | 7.45 | 34.68 | 41.64 | 45.66 | 46.15 | 74 | -27.85 | Vertical |
| 7236.000 | 8.76 | 35.90 | 39.85 | 43.89 | 48.70 | 74 | -25.30 | Vertical |
| 9648.000 | 9.69 | 37.36 | 37.76 | 41.45 | 50.74 | 74 | -23.26 | Vertical |
| 12055.600 | 11.31 | 38.95 | 38.30 | 40.56 | 52.52 | 74 | -21.48 | Vertical |
| 1173.943 | 3.60 | 27.51 | 39.21 | 50.19 | 42.09 | 74 | -31.91 | Horizontal |
| 1468.696 | 3.88 | 28.07 | 39.34 | 56.01 | 48.62 | 74 | -25.38 | Horizontal |
| 2957.654 | 5.02 | 33.33 | 40.27 | 49.38 | 47.46 | 74 | -26.54 | Horizontal |
| 4824.000 | 7.45 | 34.68 | 41.64 | 46.96 | 47.45 | 74 | -26.55 | Horizontal |
| 7236.000 | 8.76 | 35.90 | 39.85 | 46.72 | 51.53 | 74 | -22.47 | Horizontal |
| 9648.000 | 9.69 | 37.36 | 37.76 | 43.83 | 53.12 | 74 | -20.88 | Horizontal |

| Test mode | e: 80 | 2.11n (HT20) |) Test ch | nannel: | Middle | Remar | k: | Peak |
|--------------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 1124.226 | 3.56 | 27.42 | 39.20 | 51.89 | 43.67 | 74 | -30.33 | 8 Vertical |
| 1495.101 | 3.89 | 28.10 | 39.35 | 60.55 | 53.19 | 74 | -20.81 | Vertical |
| 2957.654 | 5.02 | 33.33 | 40.27 | 49.35 | 47.43 | 74 | -26.57 | Vertical |
| 4874.000 | 7.48 | 34.59 | 41.68 | 47.09 | 47.48 | 74 | -26.52 | 2 Vertical |
| 7311.000 | 8.85 | 35.92 | 39.79 | 45.80 | 50.78 | 74 | -23.22 | 2 Vertical |
| 9748.000 | 9.74 | 37.46 | 37.68 | 40.71 | 50.23 | 74 | -23.77 | Vertical |
| 1195.049 | 3.62 | 27.54 | 39.22 | 50.86 | 42.80 | 74 | -31.20 |) Horizontal |
| 1498.912 | 3.89 | 28.10 | 39.35 | 60.13 | 52.77 | 74 | -21.23 | B Horizontal |
| 2995.538 | 5.05 | 33.38 | 40.30 | 47.78 | 45.91 | 74 | -28.09 | Horizontal |
| 4874.000 | 7.48 | 34.59 | 41.68 | 48.23 | 48.62 | 74 | -25.38 | B Horizontal |
| 7311.000 | 8.85 | 35.92 | 39.79 | 45.85 | 50.83 | 74 | -23.17 | 7 Horizontal |
| 9748.000 | 9.74 | 37.46 | 37.68 | 42.11 | 51.63 | 74 | -22.37 | ' Horizontal |

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| Test mode | э: | 802. | .11n (HT20 |) Test ch | nannel: | Highest | Remar | k: | Peak |
|--------------------|-------------------|------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cab Los (dB | ss | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 1124.226 | 3.5 | 6 | 27.42 | 39.20 | 54.57 | 46.35 | 74 | -27.65 | Vertical |
| 1483.727 | 3.8 | 8 | 28.07 | 39.34 | 59.98 | 52.59 | 74 | -21.41 | Vertical |
| 2698.665 | 4.8 | 2 | 32.98 | 40.07 | 52.68 | 50.41 | 74 | -23.59 | Vertical |
| 4924.000 | 7.5 | 1 | 34.51 | 41.72 | 45.60 | 45.90 | 74 | -28.10 | Vertical |
| 7386.000 | 8.9 | 4 | 35.96 | 39.72 | 46.20 | 51.38 | 74 | -22.62 | Vertical |
| 9848.000 | 9.7 | 8 | 37.54 | 37.58 | 41.54 | 51.28 | 74 | -22.72 | Vertical |
| 1173.943 | 3.6 | 0 | 27.51 | 39.21 | 48.11 | 40.01 | 74 | -33.99 | Horizontal |
| 1498.912 | 3.8 | 9 | 28.10 | 39.35 | 54.92 | 47.56 | 74 | -26.44 | Horizontal |
| 2957.654 | 5.0 | 2 | 33.33 | 40.27 | 50.01 | 48.09 | 74 | -25.91 | Horizontal |
| 4924.000 | 7.5 | 1 | 34.51 | 41.72 | 46.92 | 47.22 | 74 | -26.78 | Horizontal |
| 7386.000 | 8.9 | 4 | 35.96 | 39.72 | 45.66 | 50.84 | 74 | -23.16 | Horizontal |
| 9848.000 | 9.7 | 8 | 37.54 | 37.58 | 42.05 | 51.79 | 74 | -22.21 | Horizontal |

| Test mode | e: { | 802. | 11n (HT40) | Test ch | annel: | Lowest | Remar | k: | Peak |
|--------------------|-------------------|------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cab Los (dB | ss | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 1115.673 | 3.56 | 6 | 27.42 | 39.19 | 55.16 | 46.95 | 74 | -27.05 | 5 Vertical |
| 1498.912 | 3.89 | 9 | 28.10 | 39.35 | 59.73 | 52.37 | 74 | -21.63 | S Vertical |
| 2651.004 | 4.78 | 8 | 32.91 | 40.05 | 53.61 | 51.25 | 74 | -22.75 | Vertical |
| 4844.000 | 7.46 | 6 | 34.65 | 41.65 | 46.00 | 46.46 | 74 | -27.54 | Vertical |
| 7266.000 | 8.8 | 1 | 35.91 | 39.82 | 45.49 | 50.39 | 74 | -23.61 | Vertical |
| 9688.000 | 9.7 | 1 | 37.39 | 37.73 | 42.72 | 52.09 | 74 | -21.91 | Vertical |
| 1104.371 | 3.54 | 4 | 27.39 | 39.18 | 53.08 | 44.83 | 74 | -29.17 | ' Horizontal |
| 1468.696 | 3.88 | 8 | 28.07 | 39.34 | 56.42 | 49.03 | 74 | -24.97 | ' Horizontal |
| 2957.654 | 5.02 | 2 | 33.33 | 40.27 | 48.86 | 46.94 | 74 | -27.06 | Horizontal |
| 4844.000 | 7.46 | 6 | 34.65 | 41.65 | 45.90 | 46.36 | 74 | -27.64 | Horizontal |
| 7266.000 | 8.8 | 1 | 35.91 | 39.82 | 45.80 | 50.70 | 74 | -23.30 | Horizontal |
| 9688.000 | 9.7 | 1 | 37.39 | 37.73 | 42.30 | 51.67 | 74 | -22.33 | B Horizontal |

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| Test mode | e: 8 | 802. | 11n (HT40) |) Test ch | annel: | Middle | Remar | k: | Peak |
|--------------------|---------------------|------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cabl Los: (dB | s | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 1104.371 | 3.54 | 4 | 27.39 | 39.18 | 51.40 | 43.15 | 74 | -30.85 | Vertical |
| 1498.912 | 3.89 | 9 | 28.10 | 39.35 | 59.87 | 52.51 | 74 | -21.49 | Vertical |
| 2995.538 | 5.0 | 5 | 33.38 | 40.30 | 48.77 | 46.90 | 74 | -27.10 | Vertical |
| 4874.000 | 7.48 | 8 | 34.59 | 41.68 | 46.76 | 47.15 | 74 | -26.85 | Vertical |
| 7311.000 | 8.8 | 5 | 35.92 | 39.79 | 44.04 | 49.02 | 74 | -24.98 | Vertical |
| 9748.000 | 9.74 | 4 | 37.46 | 37.68 | 42.23 | 51.75 | 74 | -22.25 | Vertical |
| 1046.885 | 3.49 | 9 | 27.29 | 39.16 | 51.82 | 43.44 | 74 | -30.56 | Horizontal |
| 1468.696 | 3.88 | 8 | 28.07 | 39.34 | 54.05 | 46.66 | 74 | -27.34 | Horizontal |
| 2957.654 | 5.02 | 2 | 33.33 | 40.27 | 47.71 | 45.79 | 74 | -28.21 | Horizontal |
| 4874.000 | 7.48 | 8 | 34.59 | 41.68 | 46.42 | 46.81 | 74 | -27.19 | Horizontal |
| 7311.000 | 8.8 | 5 | 35.92 | 39.79 | 44.78 | 49.76 | 74 | -24.24 | Horizontal |
| 9748.000 | 9.74 | 4 | 37.46 | 37.68 | 41.77 | 51.29 | 74 | -22.71 | Horizontal |

| Test mode | e: 802 | .11n (HT40) | Test ch | annel: | Highest | Remar | k: | Peak |
|--------------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 1115.673 | 3.56 | 27.42 | 39.19 | 53.73 | 45.52 | 74 | -28.48 | Vertical |
| 1495.101 | 3.89 | 28.10 | 39.35 | 60.18 | 52.82 | 74 | -21.18 | Vertical |
| 2957.654 | 5.02 | 33.33 | 40.27 | 48.32 | 46.40 | 74 | -27.60 | Vertical |
| 4904.000 | 7.49 | 34.54 | 41.70 | 45.23 | 45.56 | 74 | -28.44 | Vertical |
| 7356.000 | 8.92 | 35.94 | 39.74 | 45.81 | 50.93 | 74 | -23.07 | Vertical |
| 9808.000 | 9.76 | 37.51 | 37.61 | 42.41 | 52.07 | 74 | -21.93 | Vertical |
| 1124.226 | 3.56 | 27.42 | 39.20 | 50.35 | 42.13 | 74 | -31.87 | Horizontal |
| 1483.727 | 3.88 | 28.07 | 39.34 | 52.38 | 44.99 | 74 | -29.01 | Horizontal |
| 2957.654 | 5.02 | 33.33 | 40.27 | 45.24 | 43.32 | 74 | -30.68 | Horizontal |
| 4904.000 | 7.49 | 34.54 | 41.70 | 45.54 | 45.87 | 74 | -28.13 | Horizontal |
| 7356.000 | 8.92 | 35.94 | 39.74 | 44.68 | 49.80 | 74 | -24.20 | Horizontal |
| 9808.000 | 9.76 | 37.51 | 37.61 | 42.23 | 51.89 | 74 | -22.11 | Horizontal |

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Remark:

1) 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

- 2) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, 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. So, only the peak measurements were shown in the report.

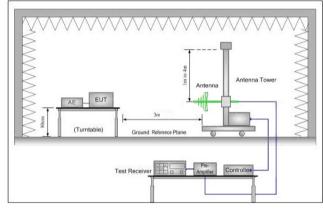


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5.9 Restricted bands around fundamental frequency

| Test Requirement: | 47 CFR Part 15C Section | 17 CFR Part 15C Section 15.209 and 15.205 | | | | | | | | | |
|-------------------|--------------------------|--|------------------|--|--|--|--|--|--|--|--|
| Test Method: | ANSI C63.10 2009 | | | | | | | | | | |
| Test Site: | Measurement Distance: 3r | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | | | | | | |
| Limit: | Frequency | Frequency Limit (dBuV/m @3m) Remark | | | | | | | | | |
| | 30MHz-88MHz | 30MHz-88MHz 40.0 Quasi-peak Value | | | | | | | | | |
| | 88MHz-216MHz | 88MHz-216MHz 43.5 Quasi-peak Value | | | | | | | | | |
| | 216MHz-960MHz | 46.0 | Quasi-peak Value | | | | | | | | |
| | 960MHz-1GHz | 54.0 | Quasi-peak Value | | | | | | | | |
| | Above 1GHz | 54.0 | Average Value | | | | | | | | |
| | Above IGHZ | 74.0 Peak Value | | | | | | | | | |
| Test Setup: | | _ | | | | | | | | | |



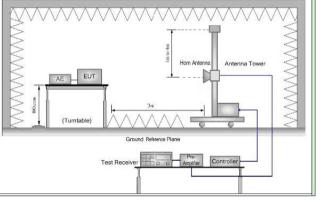


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

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| antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel , the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Pretest the EUT at Transmitting mode and AC charge +Transmitting mode, found the AC charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11b (1HT20); 13.5Mbps of rate is the worst case of 802.11b (1HT20) only the worst case is recorded in the report. | Test Procedure: | the ground at a 3 meter semi-anechoic camber. The table was rotated |
|---|------------------------|--|
| ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and then totatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel , the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting mode, AC charge +Transmitting mode Final Test Mode: Pretest the EUT at Transmitting mode and AC charge +Transmitting mode, found the AC charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11n; 13.5Mbps of rate is the worst case of 802.11n (HT40) Only the worst case is recorded in the report. | | antenna, which was mounted on the top of a variable-height antenna |
| and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel , the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting mode, AC charge +Transmitting mode Pretest the EUT at Transmitting mode and AC charge +Transmitting mode, found the AC charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b, 6Mbps of rate is the worst case of 802.11n (HT20); 13.5Mbps of rate is the worst case of 802.11n (HT40) Only the worst case is recorded in the report. | | ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make |
| Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel , the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting mode, AC charge +Transmitting mode Final Test Mode: Pretest the EUT at Transmitting mode and AC charge +Transmitting mode, found the AC charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11p; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Instruments Used: Refer to section 4.10 for details | | and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to |
| transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel, the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting mode, AC charge +Transmitting mode Final Test Mode: Pretest the EUT at Transmitting mode and AC charge +Transmitting mode, found the AC charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Refer to section 4.10 for details | | |
| h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting mode, AC charge +Transmitting mode Final Test Mode: Pretest the EUT at Transmitting mode and AC charge +Transmitting mode, found the AC charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Instruments Used: Refer to section 4.10 for details | | transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for |
| for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting mode, AC charge +Transmitting mode Final Test Mode: Pretest the EUT at Transmitting mode and AC charge +Transmitting mode, found the AC charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Instruments Used: Refer to section 4.10 for details | | g. Test the EUT in the lowest channel, the Highest channel |
| complete. Exploratory Test Mode: Transmitting mode, AC charge +Transmitting mode Final Test Mode: Pretest the EUT at Transmitting mode and AC charge +Transmitting mode, found the AC charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Instruments Used: Refer to section 4.10 for details | | for Transmitting mode, And found the X axis positioning which it is |
| Final Test Mode: Pretest the EUT at Transmitting mode and AC charge +Transmitting mode, found the AC charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Refer to section 4.10 for details | | |
| mode, found the AC charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Refer to section 4.10 for details | Exploratory Test Mode: | Transmitting mode, AC charge +Transmitting mode |
| 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Refer to section 4.10 for details | Final Test Mode: | |
| Instruments Used: Refer to section 4.10 for details | | 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of |
| | | |
| Test Results: Pass | Instruments Used: | Refer to section 4.10 for details |
| | Test Results: | Pass |

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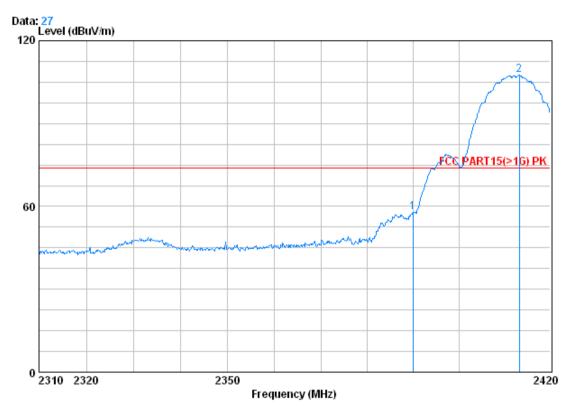


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Test plot as follows:

Worse case mode: 802.11b(1Mbps) Test channel: Lowest Remark: Peak Vertical



Condition : FCC PART15(>1G) PK 3m VERTICAL

| 010 4 e | . 2412 D | Freq | | Antenna Factor | • | Read Level | | Limit Line | Over Limit |
|----------------|----------|----------------------|----|-------------------|----|---------------|--------|---------------|---------------|
| | - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 0 2 0 | | 2390.000 2413.180 | | | | | | | |

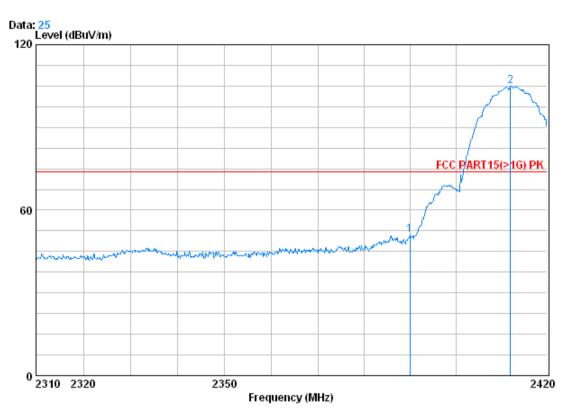
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Worse case mode: 802.11b(1Mbps) Test channel: Lowest Remark: Peak Horizontal



Condition: FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 2548RF Mode : 2412 B

CableAntenna Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit MHz dB dB dBuV dBuV/m dBuV/m dB/m 2390.000 2.98 32.51 39.85 55.34 50.99 1 0 74.00 -23.01 2 @ 2411.970 2.99 32.54 39.86 109.26 104.94 74.00 30.94



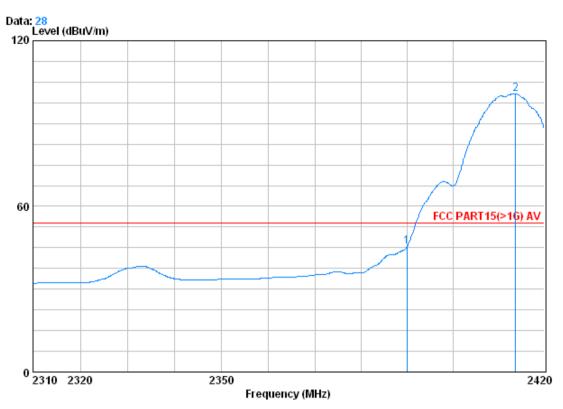
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Worse case mode: 802.11b(1Mbps) Test channel: Lowest Remark: Average Vertical



Condition : FCC PART15(>1G) AV 3m VERTICAL

| | E 22 - 24 | | Antenna | - | | | Limit | Over |
|-----|-----------|------|---------|--------|--------|--------|--------|-------|
| | Freq | T088 | ractor | ractor | rever | rever | Line | Limic |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 0 | 2390.000 | 2.98 | 32.51 | 39.85 | 49.77 | 45.42 | 54.00 | -8.58 |
| 2 0 | 2413.730 | 2.99 | 32.54 | 39.86 | 105.14 | 100.81 | 54.00 | 46.81 |

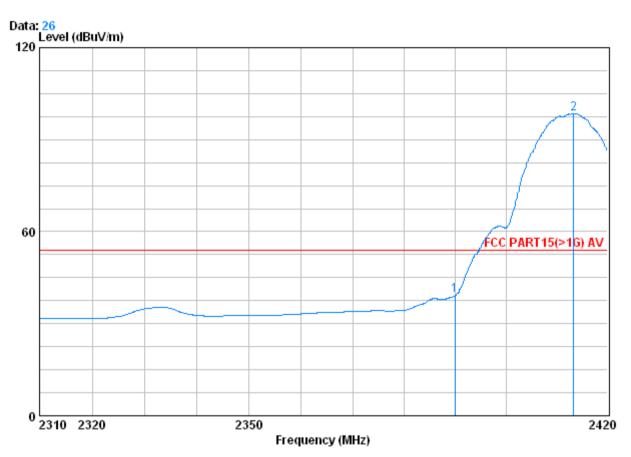
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| Worse case mode: | 802.11b(1Mbps) | Test channel: | Lowest | Remark: | Average | Horizontal |
|------------------|-----------------|---------------|--------|---------|---------|------------|
| | 00-11.10(11110) | | | | | |



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

| | | Freq | | | Preamp Factor | | | Limit Line | |
|---|---|----------------------|----|------|------------------|------|--------|---------------|-----------------|
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | - | 2390.000 2413.290 | | | 39.85 39.86 | | | | -14.87 44.47 |

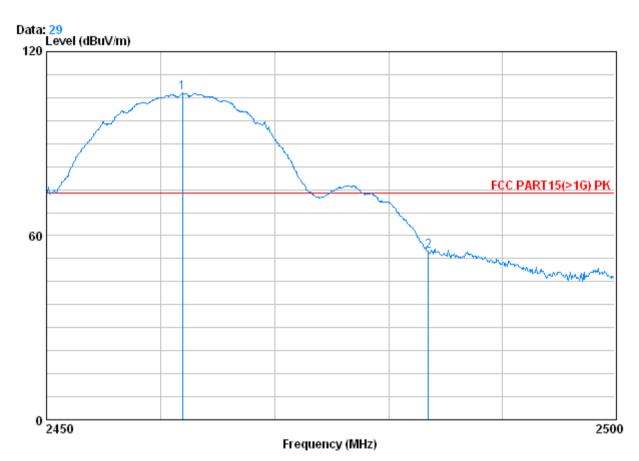
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| Worse case mode: | 802.11b(1Mbps) | Test channel: | Highest | Remark: | Peak | Vertical |
|------------------|----------------|---------------|---------|---------|------|----------|
| | \ 1 / | | | | | |



Condition : FCC PART15(>1G) PK 3m VERTICAL

| | Freq | | | - | Read Level | | Limit Line | |
|------------|----------------------|----|------|----|---------------|--------|----------------|----|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 @ 2 @ | 2461.900 2483.500 | | | | | | 74.00 74.00 | |

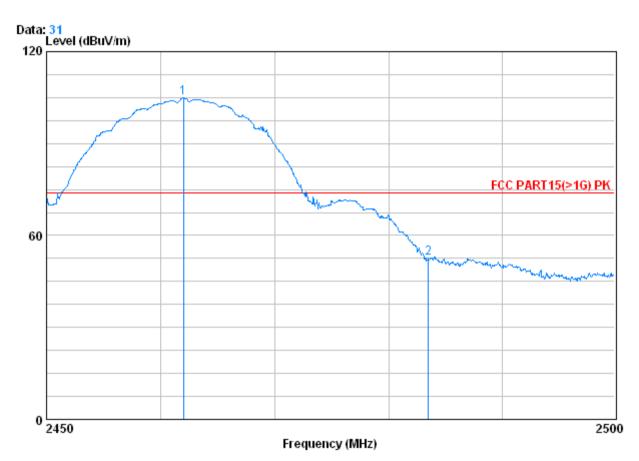
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| Worse case mode: | 802.11b(1Mbps) | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------------|----------------|---------------|---------|---------|------|------------|
| | | | | | | |



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

| | Freq | | | • | Read Level | | Limit Line | Over Limit |
|--------|----------------------|----|------|----|-----------------|--------|---------------|---------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| @ @ | 2461.950 2483.500 | | | | 109.05 56.70 | | | |

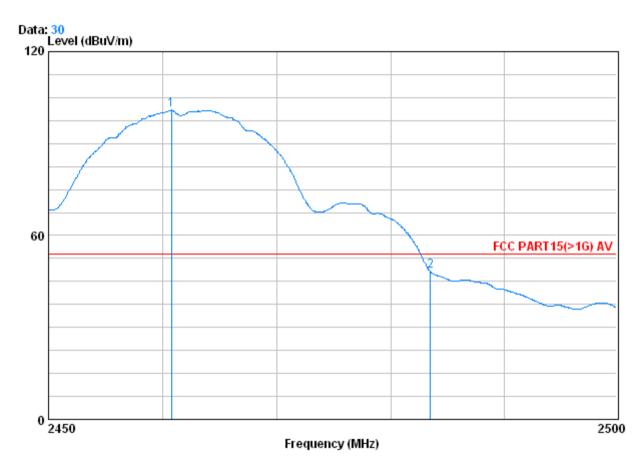
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| Worse case mode: 802.11b(1Mbps) Test channel: Highest Remark: Average Vertical |
|--|
|--|



Condition : FCC PART15(>1G) AV 3m VERTICAL

| 1046 | . 2402 D | Freq | | | • | | | Limit Line | Over Limit |
|------------|----------|----------------------|----|------|----|------|--------|---------------|-----------------|
| | - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 @ 2 @ | | 2460.750 2483.500 | | | | | | | 26.91 -25.66 |

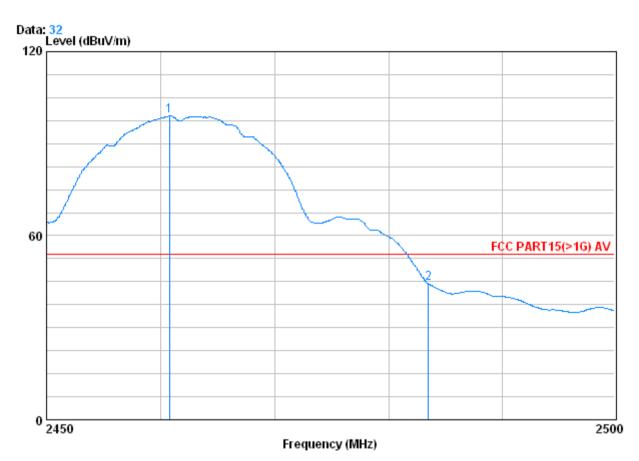
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| Worse case mode: | 802.11b(1Mbps) | Test channel: | Highest | Remark: | Average | Horizontal |
|------------------|-----------------|---------------|---------|---------|---------|------------|
| | 00-11.10(11110) | | | | | |



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

| | | Freq | | | - | Read Level | | Limit Line | Over Limit |
|--------|---|----------------------|----|------|----|---------------|--------|----------------|---------------|
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 2 | - | 2460.750 2483.500 | | | | | | 54.00 54.00 | |

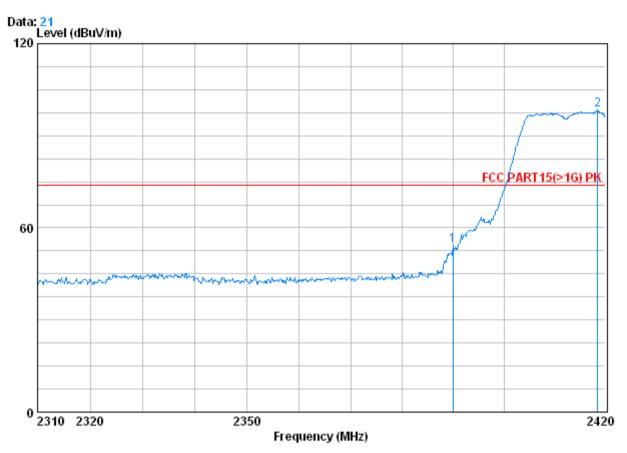
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| Worse case mode: | 802.11g (6Mbps) | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------------|-----------------|---------------|--------|---------|------|----------|
| | | | | | | |



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 2548RF Mode : 2412 G

| | | Freq | | | - | Read Level | | Limit Line | Over Limit |
|---|---|----------|------|-------|-------|---------------|--------|---------------|---------------|
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | - | 2390.000 | 2.98 | 32.51 | 39.85 | 58.48 | 54.12 | 74.00 | -19.88 |
| 2 | 0 | 2418.460 | 2.99 | 32.54 | 39.88 | 102.70 | 98.35 | 74.00 | 24.35 |

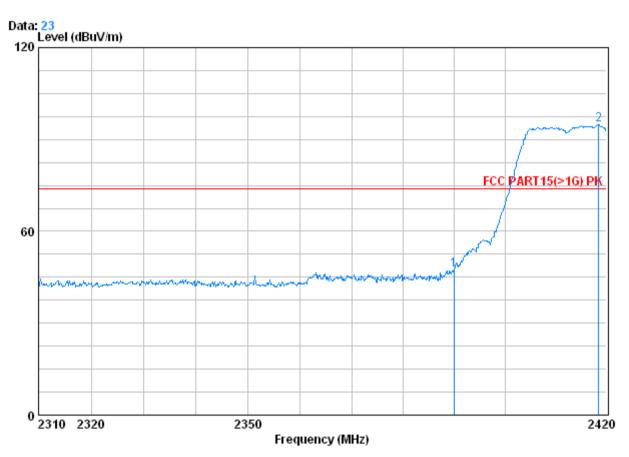
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| Worse case mode: | 802.11g (6Mbps) | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------------|-----------------|---------------|--------|---------|------|------------|
| | 009 (0000) | | | | | |



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 2548RF Mode : 2412 G

| | Freq | | | Preamp Factor | | | Limit Line | Over Limit |
|------------|----------------------|----|------|------------------|------|--------|---------------|---------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 0 2 0 | 2390.000 2418.460 | | | 39.85 39.88 | | | | |

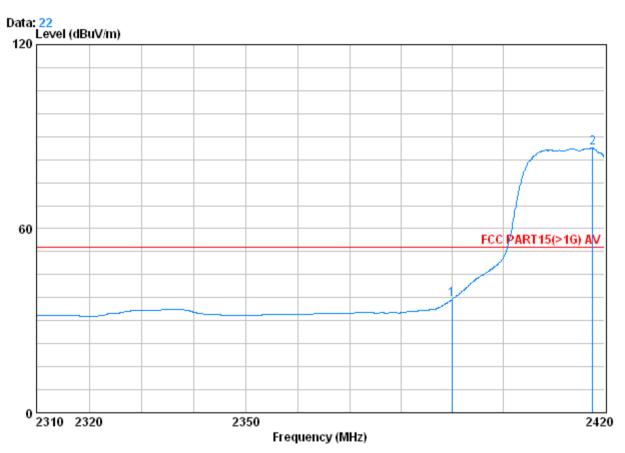
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Worse case mode: 802.11g (6Mbps) Test channel: Lowest Remark: Average Vertical



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 2548RF Mode : 2412 G

| | | | Cablei | Antenna | Preamp | Read | | Limit | Over |
|---|---|----------|--------|---------|--------|-------|--------|--------|--------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 0 | 2390.000 | 2.98 | 32.51 | 39.85 | 41.31 | 36.95 | 54.00 | -17.05 |
| 2 | 0 | 2417.690 | 2.99 | 32.54 | 39.88 | 90.65 | 86.31 | 54.00 | 32.31 |

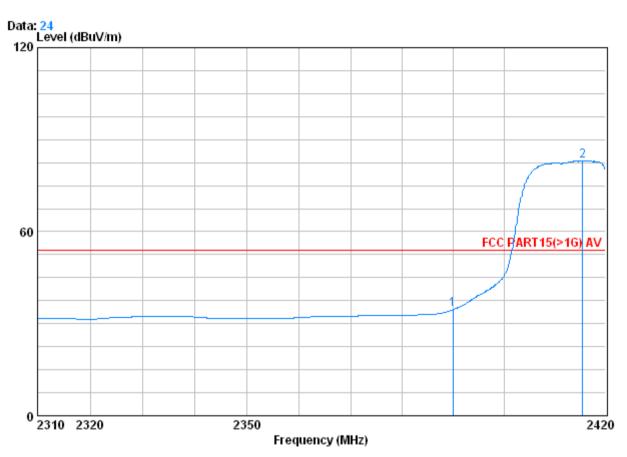
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Worse case mode: 802.11g (6Mbps) | Test channel: | Lowest | Remark: | Average | Horizontal



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 2548RF Mode : 2412 G

> 1 2

| | | CableAntenna | | Preamp | Read | | Over | |
|-----|----------|--------------|--------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | | |
| . @ | 2390.000 | 2.98 | 32.51 | 39.85 | 38.95 | 34.60 | 54.00 | -19.40 |
| 0 | 2415.490 | 2.99 | 32.54 | 39.86 | 87.43 | 83.10 | 54.00 | 29.10 |



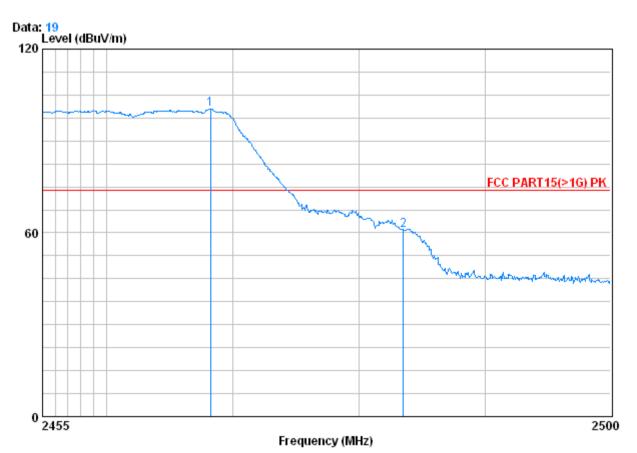
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| Worse case mode: 802.11g (6Mbps) | Test channel: | Highest | Remark: | Peak | Vertical | |
|----------------------------------|---------------|---------|---------|------|----------|--|
|----------------------------------|---------------|---------|---------|------|----------|--|



Condition : FCC PART15(>1G) PK 3m VERTICAL

| | | Freq | | | Preamp Factor | | | Limit Line | Over Limit |
|---|---|----------|------|-------|------------------|--------|--------|---------------|---------------|
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 0 | 2468.230 | 3.02 | 32.64 | 39.91 | 104.61 | 100.37 | 74.00 | 26.37 |
| 2 | 0 | 2483.500 | 3.03 | 32.67 | 39.92 | 65.16 | 60.94 | 74.00 | -13.06 |

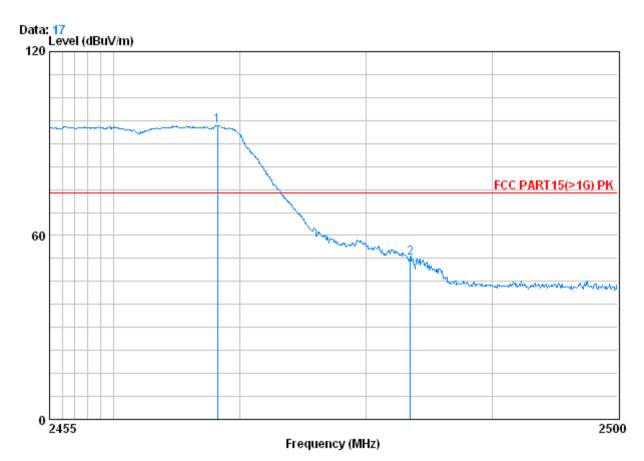
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| Worse case mode: 802.11g (6Mbps) Test channel: Highest Remark: Peak | orse case mode: | 802.11g (6Mbps) | Test channel: | Highest | Remark: | Peak | Horizontal | l |
|---|-----------------|-----------------|---------------|---------|---------|------|------------|---|
|---|-----------------|-----------------|---------------|---------|---------|------|------------|---|



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

| 1046 | . 2402 0 | Freq | | | • | Read Level | | Limit Line | Over Limit |
|------------|----------|----------------------|----|------|----|---------------|--------|---------------|-----------------|
| | - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 0 2 0 | | 2468.230 2483.500 | | | | 100.16 | | | 21.92 -21.33 |

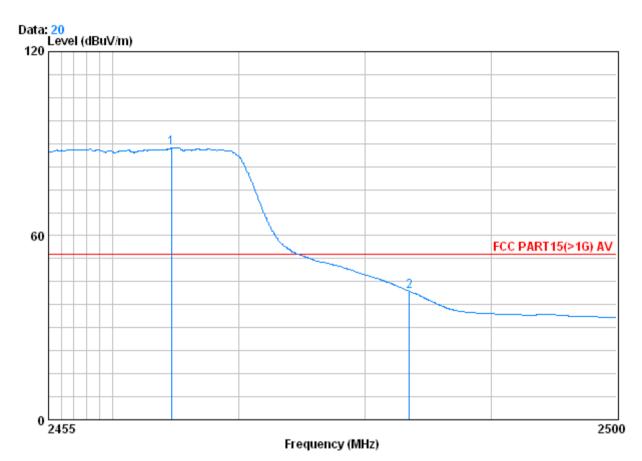
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| Worse case mode: | 802.11g (6Mbps) | Test channel: | Highest | Remark: | Average | Vertical |
|------------------|-----------------|---------------|---------|---------|---------|----------|
| | 1 3 () | | | | | |



Condition : FCC PART15(>1G) AV 3m VERTICAL

| | Freq | | | Preamp Factor | | | Limit Line | |
|---|----------------------|----|------|------------------|------|--------|---------------|----|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 2464.675 2483.500 | | | 39.91 39.92 | | | | |

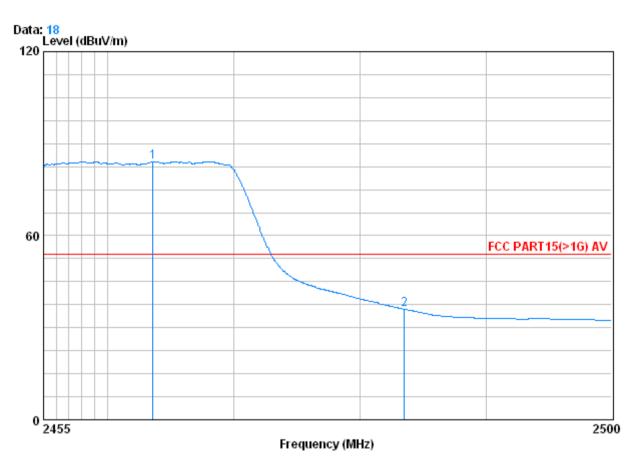
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| Worse case mode: | 802.11a (6Mbps) | Test channel: | Highest | Remark: | Average | Horizontal |
|------------------|-----------------|---------------|---------|---------|---------|------------|
| | | | | | | |



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

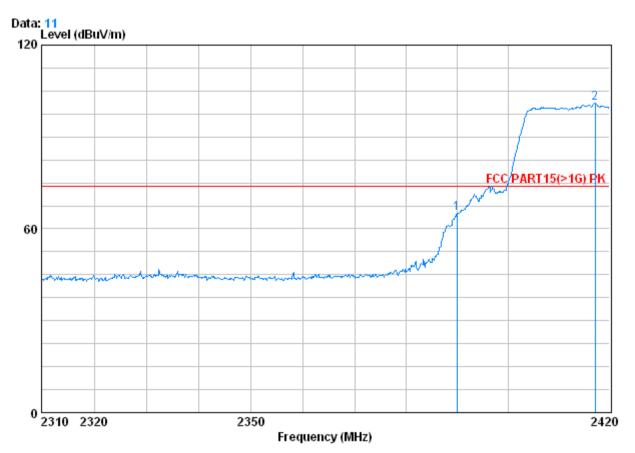
| | Freq | | | Preamp Factor | | | Limit Line | |
|--------|----------------------|----|------|------------------|------|--------|---------------|----|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 2 | 2463.595 2483.500 | | | 39.91 39.92 | | | | |

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Condition : FCC PART15(>1G) PK 3m VERTICAL

| | | Freq | | Antenna Factor | • | | | Limit Line | |
|---|---|----------|------|-------------------|-------|--------|--------|---------------|-------|
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 0 | 2390.000 | 2.98 | 32.51 | 39.85 | 69.46 | 65.11 | 74.00 | -8.89 |
| 2 | 0 | 2417.140 | 2.99 | 32.54 | 39.88 | 105.33 | 100.99 | 74.00 | 26.99 |

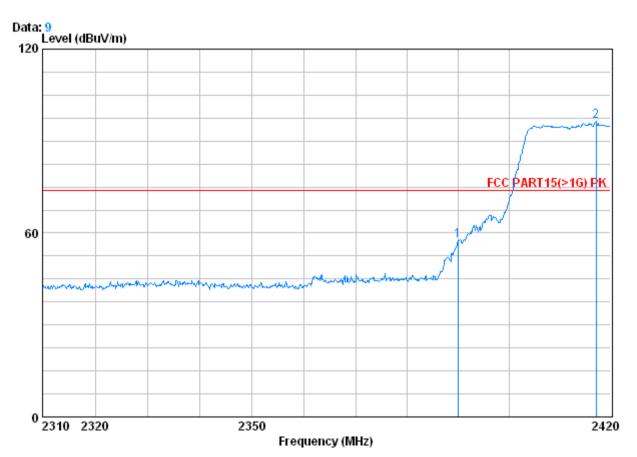
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| Worse case mode: | 802.11n(HT20) (6.5Mbps) | Test channel: | Lowest | Remark: | Peak | Horizontal | |
|------------------|-----------------------------|---------------|--------|---------|------|------------|---|
| | (0.3101003) | | | | | | ı |



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

| Over | Limit | | Read | Preamp | Antenna | Cable. | | |
|-------|--------|--------|--------|--------|---------|--------|----------|-----|
| Limit | Line | Level | Level | Factor | Factor | Loss | Freq | |
| dB | dBuV/m | dBuV/m | dBuV | dB | dB/m | dB | MHz | |
| | | 57.54 | | | | | 2390.000 | 1 0 |
| 22.30 | 74.00 | 96.30 | 100.64 | 39.88 | 32.54 | 2.99 | 2417.140 | 20 |

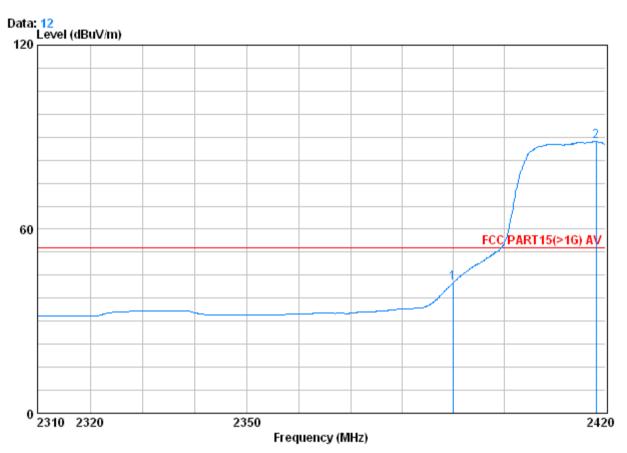
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| Worse case mode: | 802.11n(HT20) (6.5Mbps) | Test channel: | Lowest | Remark: | Average | Vertical |
|------------------|-----------------------------|---------------|--------|---------|---------|----------|
| worse case mode. | (6.5Mbps) | rest channel. | Lowest | nemark. | Average | verticai |



Condition : FCC PART15(>1G) AV 3m VERTICAL

| | | | Cable | Antenna | Preamp | Read | | Limit | Over |
|---|---|----------|-------|---------|--------|-------|--------|--------|--------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | , | | | , | , | |
| 1 | 0 | 2390.000 | 2.98 | 32.51 | 39.85 | 46.90 | 42.54 | 54.00 | -11.46 |
| | | | | | | | | | |
| 2 | 0 | 2418.130 | 2.99 | 32.54 | 39.88 | 92.88 | 88.54 | 54.00 | 34.54 |

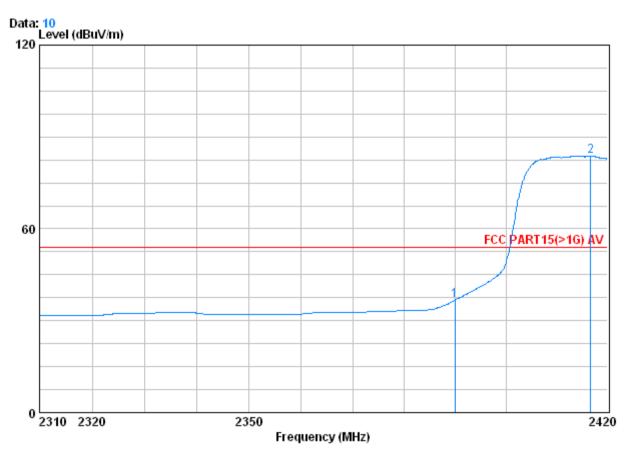
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| My oree case mode. | 2.11n(HT20) 6.5Mbps) Test channel: | Lowest Remark: | Average | Horizontal |
|--------------------|-------------------------------------|----------------|---------|------------|
|--------------------|-------------------------------------|----------------|---------|------------|



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

| | | Freq | | | Preamp Factor | | | Limit Line | |
|---|---|----------------------|----|------|------------------|------|--------|---------------|----|
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | - | 2390.000 2416.700 | | | 39.85 39.88 | | | | |

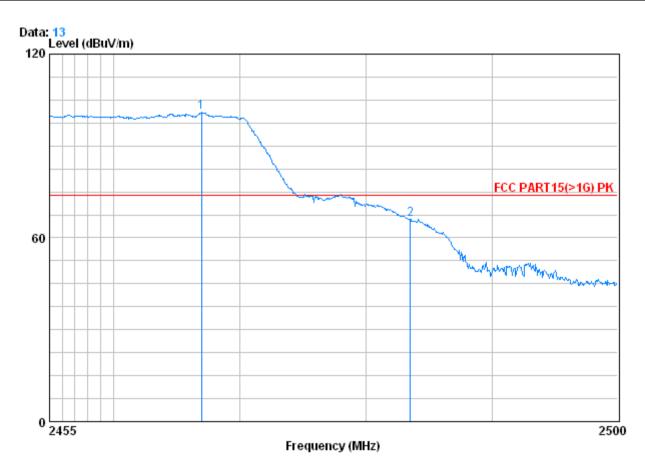
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| Worse case mode: 802.11n(HT20) (6.5Mbps) | Test channel: | Highest | Remark: | Peak | Vertical | |
|--|---------------|---------|---------|------|----------|--|
|--|---------------|---------|---------|------|----------|--|



Condition : FCC PART15(>1G) PK 3m VERTICAL

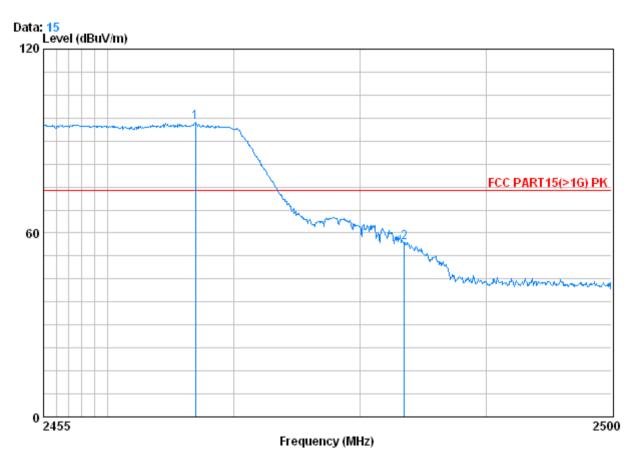
| | Freq | | Antenna Factor | • | | | Limit Line | Over Limit |
|------------|----------------------|----|-------------------|----|------|--------|----------------|---------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 @ 2 @ | 2466.970 2483.500 | | | | | | 74.00 74.00 | |

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Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 2548RF Mode : 2462 N

| | | | Cable | Antenna | Preamp | Read | | Limit | Over |
|---|---|----------|-------|---------|--------|--------|--------|--------|--------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | | | |
| 1 | 0 | 2466.970 | 3.02 | 32.64 | 39.91 | 100.30 | 96.05 | 74.00 | 22.05 |
| 2 | ß | 2483.500 | 3.03 | 32.67 | 39.92 | 61.10 | 56.88 | 74.00 | -17.12 |



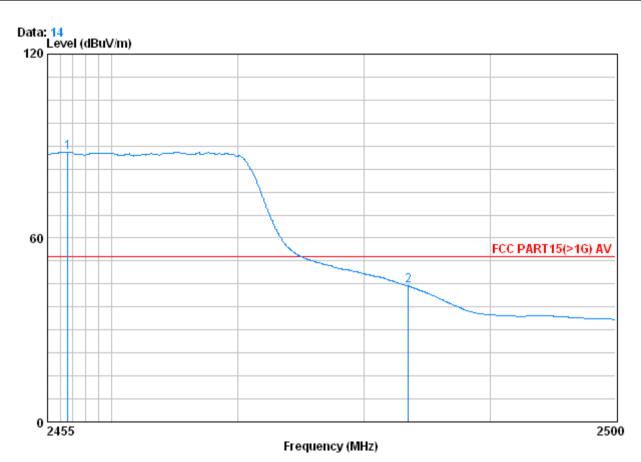
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| Maraa aaaa mada | 802.11n(HT20) | Test | Llighoot | Domorki | Averege | Vertical |
|------------------|---------------|----------|----------|---------|---------|----------|
| Worse case mode: | (6.5Mbps) | channel: | Highest | Remark: | Average | Vertical |



Condition : FCC PART15(>1G) AV 3m VERTICAL

| | | Freq | | | Preamp Factor | | | Limit Line | |
|---|---|----------|------|-------|------------------|-------|--------|---------------|-------|
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 0 | 2456.575 | 3.01 | 32.64 | 39.91 | 92.32 | 88.06 | 54.00 | 34.06 |
| 2 | 0 | 2483.500 | 3.03 | 32.67 | 39.92 | 48.57 | 44.35 | 54.00 | -9.65 |

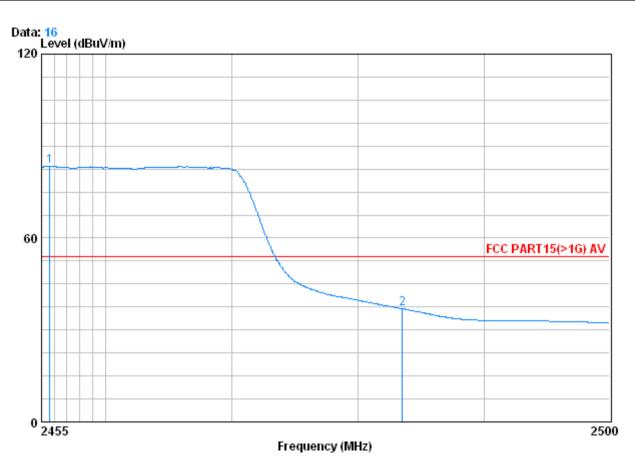
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| Worse case mode: | 802.11n(HT20) | Test | ∐ighoct | Remark: | Avorago | Horizontal |
|------------------|---------------|----------|---------|---------|---------|------------|
| | (6.5Mbps) | channel: | Highest | nemark. | Average | Honzoniai |



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

| | Freq | | | Preamp Factor | | | Limit Line | |
|------------|----------------------|----|------|------------------|------|--------|---------------|----|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 0 2 0 | 2455.630 2483.500 | | | 39.91 39.92 | | | | |

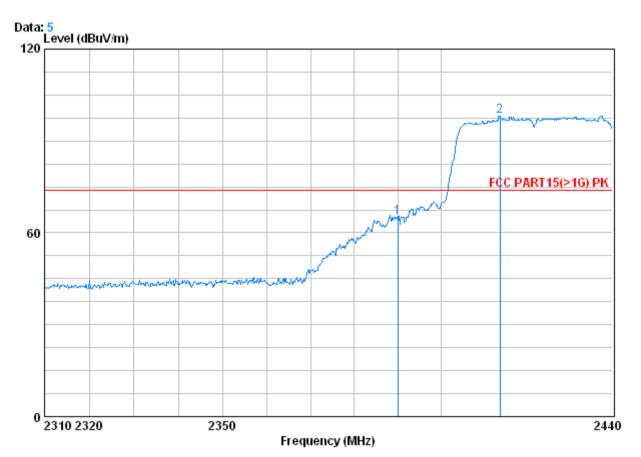
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| Worse case mode: | 802.11n(HT40) (13.5Mbps) | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------------|------------------------------|---------------|--------|---------|------|----------|
| | (I 3.5IVIDDS) | | | | | |



Condition : FCC PART15(>1G) PK 3m VERTICAL

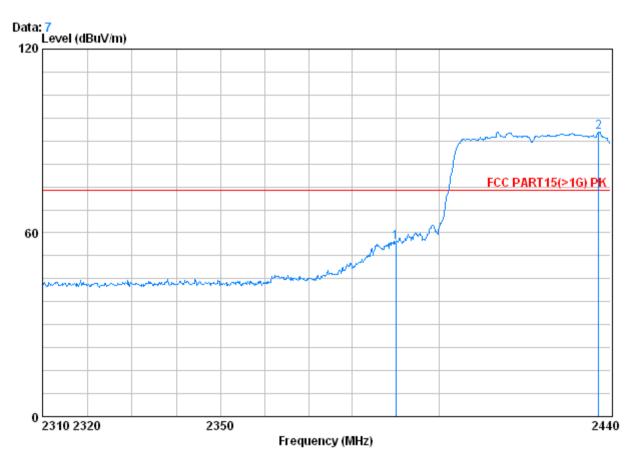
| | | Freq | | | • | Read Level | | Limit Line | Over Limit |
|---|---|----------|------|-------|-------|---------------|--------|---------------|---------------|
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 0 | 2390.000 | 2.98 | 32.51 | 39.85 | 69.38 | 65.03 | 74.00 | -8.97 |
| 2 | 0 | 2413.740 | 2.99 | 32.54 | 39.86 | 102.39 | 98.06 | 74.00 | 24.06 |

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Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 2548RF Mode : 2422 N Ht40

| | Freq | | | Preamp Factor | | | Limit Line | Over Limit |
|------------|----------------------|----|------|------------------|------|--------|---------------|---------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 @ 2 @ | 2390.000 2437.270 | | | 39.85 39.89 | | | | |

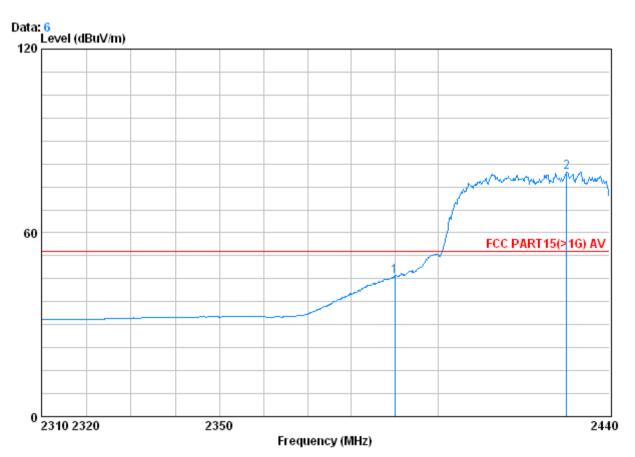
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| Worse case mode: | 802.11n(HT40) | Test | Lowest | Domorki | Averege | Vertical |
|------------------|---------------|----------|--------|---------|---------|----------|
| worse case mode. | (13.5Mbps) | channel: | Lowest | Remark: | Average | Vertical |



Condition : FCC PART15(>1G) AV 3m VERTICAL

| | Freq | | | Preamp Factor | | | Limit Line | Over Limit |
|------------|----------------------|----|------|------------------|------|--------|---------------|---------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 0 2 0 | 2390.000 2429.990 | | | 39.85 39.88 | | | | |

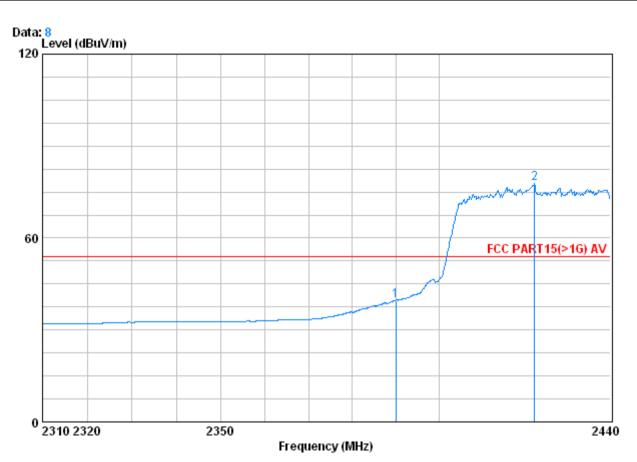
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| Waraa aaaa mada | 802.11n(HT40) | Test | Lowest | Domorki | Averege | Harizantal |
|------------------|---------------|----------|--------|---------|---------|------------|
| Worse case mode: | (13.5Mbps) | channel: | Lowest | Remark: | Average | Horizontal |



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

| Over | Limit | | Read | Preamp | lntenna | Cable. | | | |
|--------|--------|--------|-------|--------|---------|--------|----------|-----|---|
| Limit | Line | Level | Level | Factor | Factor | Loss | Freq | | |
| dB | dBuV/m | dBuV/m | dBuV | dB | dB/m | dB | MHz | | |
| -14.35 | 54.00 | 39.65 | 44.01 | 39.85 | 32.51 | 2.98 | 2390.000 | 1 0 | |
| 23.90 | 54.00 | 77.90 | 82.20 | 39.88 | 32.58 | 3.00 | 2422.190 | 2 0 | í |

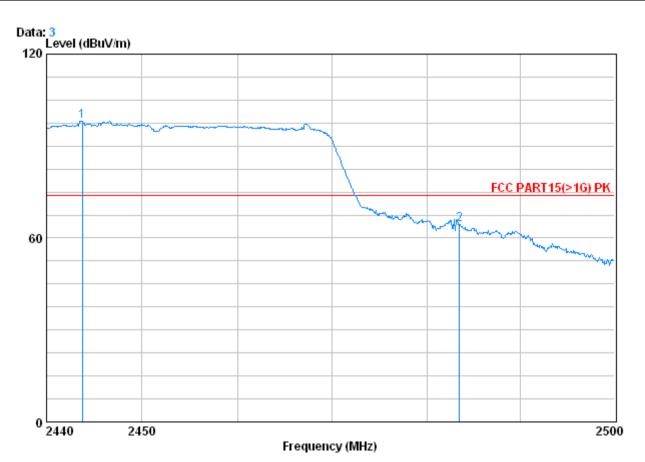
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| Worse case mode: | 802.11n(HT40) | Test | Highest | Remark: | Peak | Vertical | l |
|------------------|---------------|----------|---------|---------|------|----------|---|
| Worse case mode. | (13.5Mbps) | channel: | nignesi | nemark. | reak | Vertical | l |



Condition : FCC PART15(>1G) PK 3m VERTICAL

| | Freq | | Antenna Factor | • | | | Limit Line | |
|------------|----------------------|----|-------------------|----|------|--------|----------------|----|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 0 2 0 | 2443.720 2483.500 | | | | | | 74.00 74.00 | |

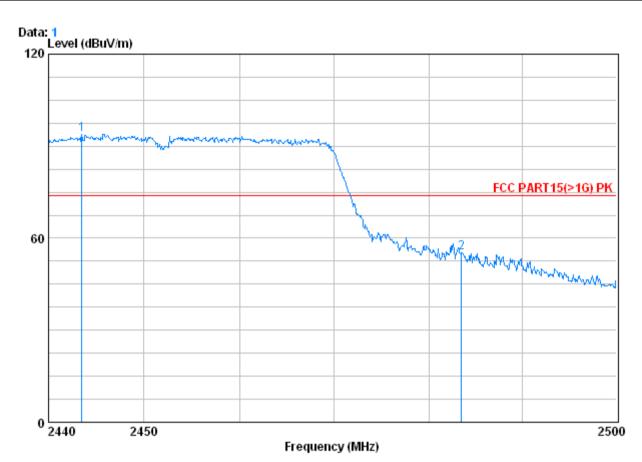
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| Worse case mode: | 802.11n(HT40) | Test | Highest | Remark: | Peak | Horizontal |
|------------------|---------------|----------|-----------|---------|------|------------|
| Worse case mode. | (13.5Mbps) | channel: | riigilesi | nemark. | Fean | Honzontai |



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 2548RF Mode : 2452 N Ht40

| Over | Limit | | Read | Preamp | lntenna | Cable. | | | |
|--------|--------|--------|-------|--------|---------|--------|----------|-----|--|
| Limit | Line | Level | Level | Factor | Factor | Loss | Freq | | |
| dB | dBuV/m | dBuV/m | dBuV | dB | dB/m | dB | MHz | | |
| 20.00 | 74.00 | 94.00 | 98.27 | 39.89 | 32.61 | 3.01 | 2443.480 | 1 0 | |
| -18.86 | 74.00 | 55.14 | 59.36 | 39.92 | 32.67 | 3.03 | 2483.500 | 2 @ | |

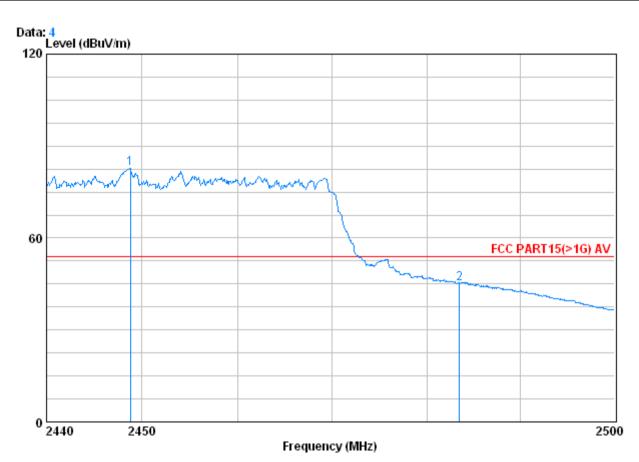
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| Worse case mode: | 802.11n(HT40) | Test | Highest | Remark: | Avorago | Vertical | l |
|------------------|---------------|----------|-----------|---------|---------|----------|---|
| | (13.5Mbps) | channel: | riigiiesi | nemark. | Average | Vertical | l |



Condition : FCC PART15(>1G) AV 3m VERTICAL

| | | Cable | Antenna | Preamp | Read | | Limit | Over |
|---|----------|----------------|---------------------|--|--|---|---|--|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | | |
| 0 | 2448.760 | 3.01 | 32.61 | 39.89 | 86.87 | 82.59 | 54.00 | 28.59 |
| 0 | 2483.500 | 3.03 | 32.67 | 39.92 | 49.49 | 45.27 | 54.00 | -8.73 |
| | | MHz @ 2448.760 | ### Freq Loss MHz | Freq Loss Factor MHz dB dB/m @ 2448.760 3.01 32.61 | Freq Loss Factor Factor MHz dB dB/m dB 0 2448.760 3.01 32.61 39.89 | Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2448.760 3.01 32.61 39.89 86.87 | MHz dB dB/m dB dBuV dBuV/m @ 2448.760 3.01 32.61 39.89 86.87 82.59 | ### Freq Loss Factor Factor Level Level Line MHz |

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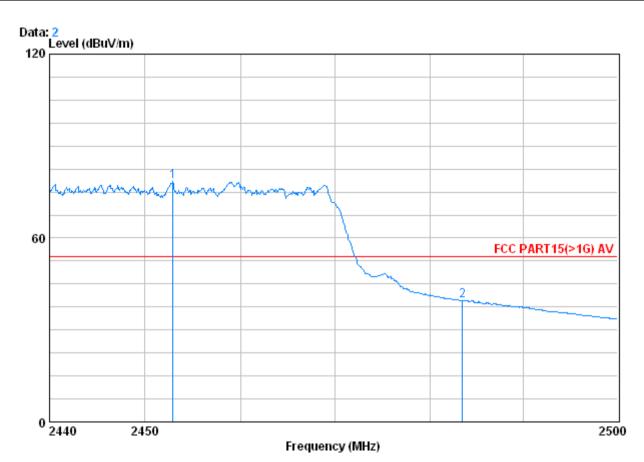


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| Maraa aaaa mada | 802.11n(HT40) | Test | Llighoot | Domorki | Average | Harizantal |
|------------------|---------------|----------|----------|---------|---------|------------|
| Worse case mode: | (13.5Mbps) | channel: | Highest | Remark: | Average | Horizontal |



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 2548RF Mode : 2452 N Ht40

| | | | Cable | Antenna | Preamp | Read | | Limit | Over |
|---|---|----------|-------|---------|--------|-------|--------|--------|--------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | , | | | , | , | |
| 1 | ß | 2452.900 | 3.01 | 32.61 | 39.89 | 82.87 | 78.59 | 54.00 | 24.59 |
| _ | _ | | | | | | | | |
| 2 | ø | 2483.500 | 3.03 | 32.67 | 39.92 | 43.72 | 39.50 | 54.00 | -14.50 |

Note

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier equation with a sample calculation is as follows:

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

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