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Report No.: SZEM120700424501  
Page: 1 of 66

## FCC REPORT

**Application No:** SZEM1207004245RF  
**Applicant:** RM Acquisition LLC  
**Manufacturer:** ELECTRONICS TECHNOLOGY (DONG GUAN) COMPANY LIMITED  
**Factory:** ELECTRONICS TECHNOLOGY (DONG GUAN) COMPANY LIMITED  
**Product Name:** GPS  
**Model No.(EUT):** TND 720A  
**Add Model No.:** RVND 7720A, RVND 7715A  
**FCC ID:** A4C-10001B  
**Standards:** 47 CFR Part 15, Subpart C (2011)  
**Date of Receipt:** 2012-07-30  
**Date of Test:** 2012-08-02 to 2012-08-20  
**Date of Issue:** 2012-08-24

|                     |               |
|---------------------|---------------|
| <b>Test Result:</b> | <b>PASS *</b> |
|---------------------|---------------|

. \* 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) | KDB558074 D01<br>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<br>ANSI C63.10 2009 | PASS   |
| 6dB Occupied Bandwidth               | 47 CFR Part 15, Subpart C Section 15.247 (a)(2)     | KDB558074 D01<br>ANSI C63.10 2009 | PASS   |
| Power Spectral Density               | 47 CFR Part 15, Subpart C Section 15.247 (e)        | KDB558074 D01<br>ANSI C63.10 2009 | PASS   |
| Band-edge for RF Conducted Emissions | 47 CFR Part 15, Subpart C Section 15.247(d)         | KDB558074 D01<br>ANSI C63.10 2009 | PASS   |
| RF Conducted Spurious Emissions      | 47 CFR Part 15, Subpart C Section 15.247(d)         | KDB558074 D01<br>ANSI C63.10 2009 | PASS   |
| Radiated Spurious Emissions          | 47 CFR Part 15, Subpart C Section 15.205/15.209     | KDB558074 D01<br>ANSI C63.10 2009 | PASS   |
| Band Edge (Radiated Emission)        | 47 CFR Part 15, Subpart C Section 15.205/15.209     | KDB558074 D01<br>ANSI C63.10 2009 | PASS   |

Remark:

Model No.: TND 720A, RVND 7720A, RVND 7715A

Only the model TND 720A was tested, since the electrical circuit design, layout, components used and internal wiring were identical for all above models. Only different on model name and appearance.



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## 4 General Information

### 4.1 Client Information

|                          |  |
|--------------------------|--|
| Applicant:               | RM Acquisition LLC   |
| Address of Applicant:    | 9855 Woods Drive Skokie. IL 60077 U.S.A  |
| Manufacturer:            | ELECTRONICS TECHNOLOGY (DONG GUAN) COMPANY LIMITED   |
| Address of Manufacturer: | No.161, Xin Min Road, Tong Luo Wei Industrial Zone, Jin Xia, Chang An Town, Dong Guan City, Guang Dong Province, China |
| Factory:                 | ELECTRONICS TECHNOLOGY (DONG GUAN) COMPANY LIMITED   |
| Address of Factory:      | No.161, Xin Min Road, Tong Luo Wei Industrial Zone, Jin Xia, Chang An Town, Dong Guan City, Guang Dong Province, China |

### 4.2 General Description of EUT

|                       |   |   |
|-----------------------|---|---|
| Product Name:         | GPS   |   |
| Model No.:            | TND 720A, RVND 7720A, RVND 7715A  |   |
| Operation Frequency:  | IEEE 802.11b/g: 2412MHz to 2462MHz  |   |
| Channel Numbers:      | IEEE 802.11b/g: 11 Channels   |   |
| Channel Separation:   | 5MHz  |   |
| Type of Modulation:   | IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)<br>IEEE for 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) |   |
| Sample Type:          | Portable production   |   |
| Test Power Grade:     | 15dBm (manufacturer declare)  |   |
| Test Software of EUT: | Labtool (manufacturer declare)  |   |
| Antenna Type:         | Integral  |   |
| Antenna Gain:         | 0dBi  |   |
| Power Supply:         | AC/DC adapter:  | Model: SW013UH-0500200US<br>Input: AC100-240V 50/60Hz 0.4A Max<br>Output: DC5V 2A |
|                       | Vehicle adapter:  | Model: SW-87180500200A AW11<br>Input: DC12-24V 2.5A<br>Output: DC5V/2A            |
|                       | Battery:  | GSP 684057 1600mAh 3.7V   |
|                       | USB charge  |   |
| AC/DC Adapter:        | 138 cm, shielding   |   |
| Vehicle Adapter:      | 236 cm, shielding   |   |
| USB Charging Cable:   | 100 cm  |   |
| AV Cable:             | 106 cm  |   |
| Test Voltage:         | Input: AC120V 60Hz  |   |

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| Operation Frequency each of channel(802.11b/g) |           |         |           |         |           |         |           |
|--|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel  | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1  | 2412MHz   | 4       | 2427MHz   | 7       | 2442MHz   | 10      | 2457MHz   |
| 2  | 2417MHz   | 5       | 2432MHz   | 8       | 2447MHz   | 11      | 2462MHz   |
| 3  | 2422MHz   | 6       | 2437MHz   | 9       | 2452MHz   |         |           |

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:

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

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### 4.3 Test Environment and Mode

| Operating Environment:        |  |
|-------------------------------|--|
| Temperature:                  | 27.0 °C  |
| Humidity:                     | 57 % RH  |
| Atmospheric Pressure:         | 1002 mbar  |
| Test mode:                    |  |
| Transmitting                  | Keep the EUT transmitting with modulation.                                 |
| PC Charge + Transmitting      | Keep the EUT charging by PC and transmitting with modulation               |
| AC Charge + Transmitting      | Keep the EUT charging by AC adapter and transmitting with modulation.      |
| Vehicle Charge + Transmitting | Keep the EUT charging by Vehicle adapter and transmitting with modulation. |

### 4.4 Description of Support Units

The EUT has been tested with associated equipment below.

| Description    | Manufacturer      | Model No.  |
|----------------|-------------------|------------|
| Earphone       | N/A               | N/A        |
| iPad 2         | Apple             | A1219      |
| DC Power       | ZHAOXIN           | RXN-305D   |
| PC             | DELL              | DCSM       |
| LCD-displaying | DELL              | SP2208WFPt |
| KEYBOARD       | DELL              | SK-8115    |
| MOUSE          | Lenovo            | MO28UOL    |
| PC             | IBM               | 8172       |
| LCD-displaying | Lenovo            | L1711pC    |
| KEYBOARD       | IBM               | SK-8115    |
| MOUSE          | Lenovo            | MO28UOA    |
| Coder          | HengTong ELECTRON | HT4000     |
| Printer        | Canon             | BJC-1000SP |

### 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.

## 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)**  
The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

## 4.7 Deviation from Standards

None.

## 4.8 Abnormalities from Standard Conditions

None.

## 4.9 Other Information Requested by the Customer

None.

#### 4.10 Test Instruments List

| RE in Chamber |                                    |  |           |               |                              |
|---------------|------------------------------------|--|-----------|---------------|------------------------------|
| Item          | Test Equipment                     | Manufacturer                             | Model No. | Inventory No. | Cal.Due date<br>(yyyy-mm-dd) |
| 1             | 3m Semi-Anechoic Chamber           | ETS-LINDGREN                             | N/A       | SEL0017       | 2013-06-10                   |
| 2             | EMI Test Receiver                  | Rohde & Schwarz                          | ESIB26    | SEL0023       | 2013-05-17                   |
| 3             | EMI Test software                  | AUDIX                                    | E3        | SEL0050       | N/A                          |
| 4             | BiConiLog Antenna<br>(26-3000MHz)  | ETS-LINDGREN                             | 3142C     | SEL0015       | 2012-10-29                   |
| 5             | Double-ridged horn<br>(1-18GHz)    | ETS-LINDGREN                             | 3117      | SEL0006       | 2012-10-29                   |
| 6             | Horn Antenna<br>(18-26GHz)         | ETS-LINDGREN                             | 3160      | SEL0076       | 2012-10-29                   |
| 7             | Pre-amplifier<br>(0.1-1300MHz)     | Agilent<br>Technologies                  | 8447D     | SEL0053       | 2013-05-17                   |
| 8             | Pre-Amplifier<br>(0.1-26.5GHz)     | Compliance<br>Directions Systems<br>Inc. | PAP-0126  | SEL0168       | 2012-11-26                   |
| 9             | Coaxial cable                      | SGS                                      | N/A       | SEL0027       | 2013-05-29                   |
| 10            | Coaxial cable                      | SGS                                      | N/A       | SEL0189       | 2013-05-29                   |
| 11            | Coaxial cable                      | SGS                                      | N/A       | SEL0121       | 2013-05-29                   |
| 12            | Coaxial cable                      | SGS                                      | N/A       | SEL0178       | 2013-05-29                   |
| 13            | Band filter                        | Amindeon                                 | 82346     | SEL0094       | 2013-05-17                   |
| 14            | Barometer                          | Chang Chun                               | DYM3      | SEL0088       | 2013-05-24                   |
| 15            | DC Power Supply                    | Zhao Xin                                 | RXN-305D  | SEL0117       | 2012-10-23                   |
| 16            | Humidity/ Temperature<br>Indicator | Shanghai Qixiang                         | ZJ1-2B    | SEL0103       | 2012-10-27                   |
| 17            | Signal Generator<br>(10M-27GHz)    | Rohde & Schwarz                          | SMR27     | SEL0067       | 2013-05-17                   |
| 18            | Signal Generator                   | Rohde & Schwarz                          | SMY01     | SEL0155       | 2012-10-23                   |
| 19            | Loop Antenna                       | Beijing Daze                             | ZN30401   | SEL0203       | 2013-06-04                   |



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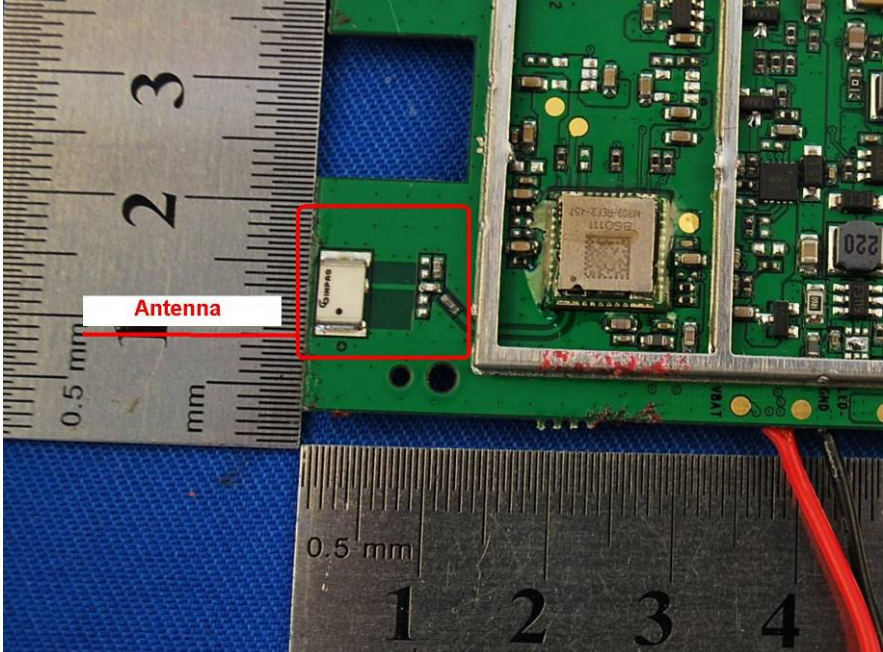
| <b>Conducted Emission</b> |                                 |                                    |                  |                      |                                  |
|---------------------------|---------------------------------|------------------------------------|------------------|----------------------|----------------------------------|
| <b>Item</b>               | <b>Test Equipment</b>           | <b>Manufacturer</b>                | <b>Model No.</b> | <b>Inventory No.</b> | <b>Cal.Due date (yyyy-mm-dd)</b> |
| 1                         | Shielding Room                  | ZhongYu Electron                   | GB-88            | SEL0042              | 2013-06-10                       |
| 2                         | LISN                            | Rohde & Schwarz                    | ENV216           | SEL0152              | 2012-10-23                       |
| 3                         | LISN                            | ETS-LINDGREN                       | 3816/2           | SEL0021              | 2013-5-17                        |
| 4                         | 8 Line ISN                      | Fischer Custom Communications Inc. | FCC-TLISN-T8-02  | SEL0162              | 2012-11-11                       |
| 5                         | 4 Line ISN                      | Fischer Custom Communications Inc. | FCC-TLISN-T4-02  | SEL0163              | 2012-11-11                       |
| 6                         | 2 Line ISN                      | Fischer Custom Communications Inc. | FCC-TLISN-T2-02  | SEL0164              | 2012-11-11                       |
| 7                         | EMI Test Receiver               | Rohde & Schwarz                    | ESCI             | SEL0022              | 2013-5-17                        |
| 8                         | Coaxial Cable                   | SGS                                | N/A              | SEL0025              | 2013-05-29                       |
| 9                         | DC Power Supply                 | Zhao Xin                           | RXN-305D         | SEL0117              | 2012-10-23                       |
| 10                        | Humidity/ Temperature Indicator | Shanghai Qixiang                   | ZJ1-2B           | SEL0103              | 2012-10-27                       |
| 11                        | Barometer                       | Chang Chun                         | DYM3             | SEL0088              | 2013-05-24                       |

| <b>RF connected test</b> |                                 |                      |                  |                      |                                  |
|--------------------------|---------------------------------|----------------------|------------------|----------------------|----------------------------------|
| <b>Item</b>              | <b>Test Equipment</b>           | <b>Manufacturer</b>  | <b>Model No.</b> | <b>Inventory No.</b> | <b>Cal.Due date (yyyy-mm-dd)</b> |
| 1                        | DC Power Supply                 | Zhao Xin             | RXN-305D         | SEL0117              | 2012-10-23                       |
| 2                        | Humidity/ Temperature Indicator | HYGRO                | ZJ1-2B           | SEL0033              | 2012-10-27                       |
| 3                        | Spectrum Analyzer               | Rohde & Schwarz      | FSP              | SEL0154              | 2012-10-23                       |
| 4                        | Coaxial cable                   | SGS                  | N/A              | SEL0178              | 2013-05-29                       |
| 5                        | Coaxial cable                   | SGS                  | N/A              | SEL0179              | 2013-05-29                       |
| 6                        | Barometer                       | ChangChun            | DYM3             | SEL0088              | 2013-05-24                       |
| 7                        | Signal Generator                | Rohde & Schwarz      | SML03            | SEL0068              | 2013-05-17                       |
| 8                        | Band filter                     | amideon              | 82346            | SEL0094              | 2013-05-17                       |
| 9                        | POWER METER                     | R & S                | NRVS             | SEL0144              | 2012-10-23                       |
| 10                       | Attenuator                      | Beijin feihang taida | TST-2-6dB        | SEL0205              | 2013-05-17                       |
| 11                       | Power Divider(splitter)         | Agilent Technologies | 11636B           | SEL0130              | 2012-11-29                       |

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## 5 Test results and Measurement Data

### 5.1 Antenna Requirement

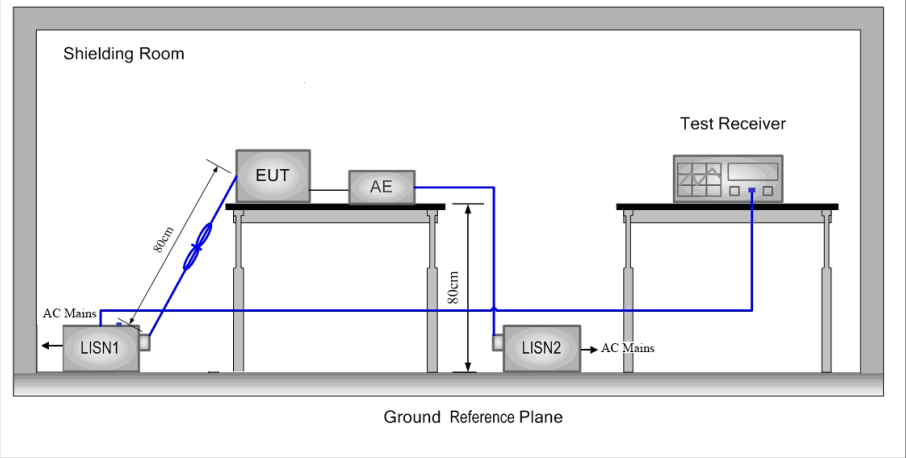
|  |  |
|--|--|
| <b>Standard requirement:</b>   | 47 CFR Part 15C Section 15.203 /247(c) |
| <p>15.203 requirement:<br/>           An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently 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.</p> <p>15.247(b) (4) requirement:<br/>           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.</p> |  |
| <b>EUT Antenna:</b>  |  |
| <p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.</p>   |  |
|    |  |



## 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:   | Frequency range (MHz)   | Limit (dBuV) |           |
|  |   | Quasi-peak   | Average   |
|  | 0.15-0.5  | 66 to 56*    | 56 to 46* |
|  | 0.5-5   | 56           | 46        |
|  | 5-30  | 60           | 50        |
| * Decreases with the logarithm of the frequency. |   |              |           |
| Test Procedure:                                  | <ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2009 on conducted measurement.</li> </ol> |              |           |

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|                          |  |
|--------------------------|--|
| <p>Test Setup:</p>       |    |
| <p>Test Mode:</p>        | <p>PC Charge + transmitting mode, AC Charge + transmitting mode</p>  |
| <p>Test Status:</p>      | <p>Pretest the EUT at different test mode and found the AC Charge + transmitting mode which is worse case, the test worse case mode is recorded in the report.</p> |
| <p>Instruments Used:</p> | <p>Refer to section 4.10 for details</p>   |
| <p>Test Results:</p>     | <p>Pass</p>  |

**Measurement Data**

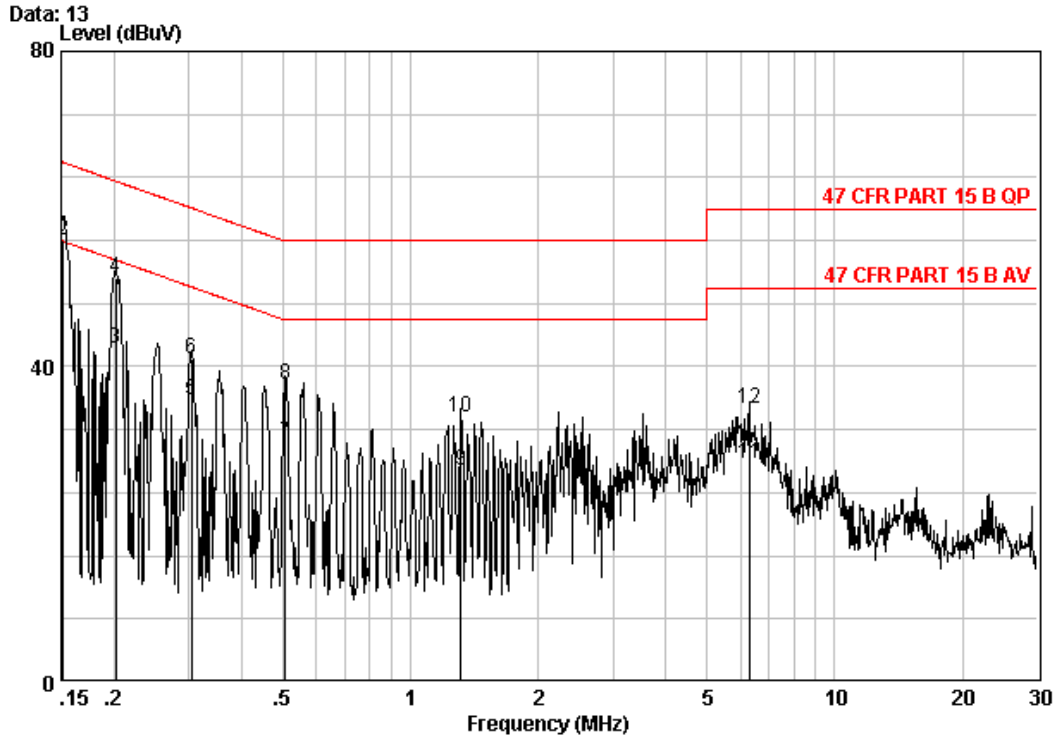
An initial pre-scan was performed on the live and neutral lines with peak detector.

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

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Live Line:



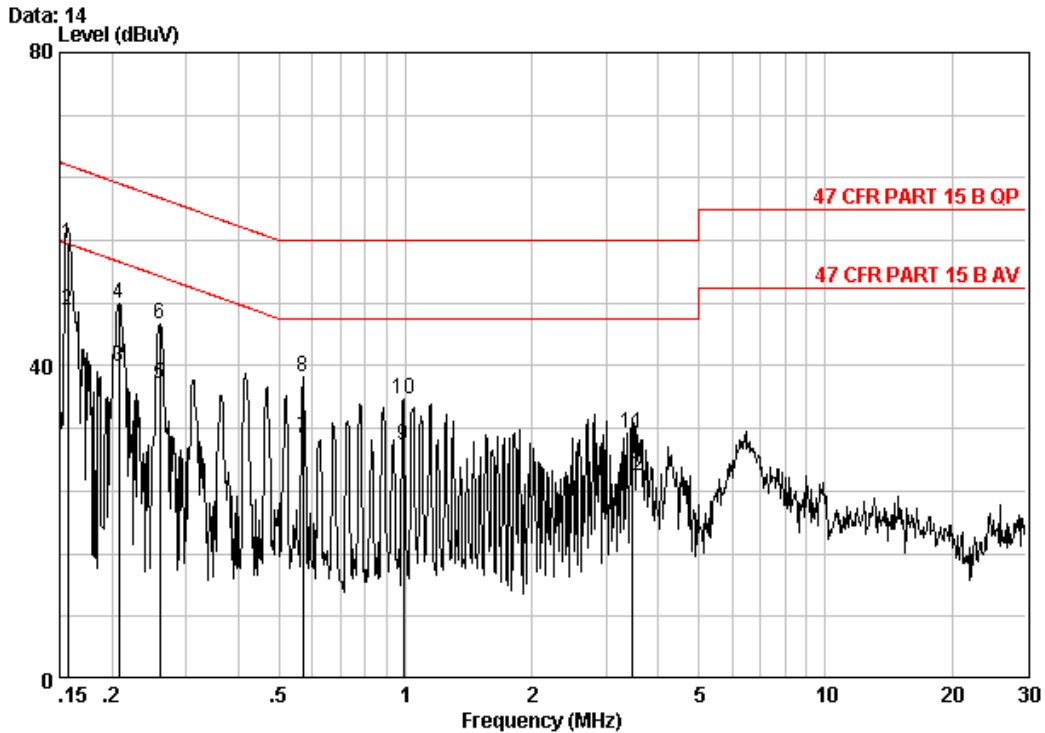
Site : Shielding Room  
 Condition : 47 CFR PART 15 B QP CE LINE  
 Job No. : 4245RF  
 Mode : AC charge + Transmitting

|    | Freq    | Cable Loss | LISN Factor | Read Level | Limit Level | Over Limit | Remark         |
|----|---------|------------|-------------|------------|-------------|------------|----------------|
|    | MHz     | dB         | dB          | dBuV       | dBuV        | dB         |                |
| 1  | 0.15160 | 0.02       | 9.70        | 39.00      | 48.72       | 55.91      | -7.19 Average  |
| 2  | 0.15160 | 0.02       | 9.70        | 46.28      | 56.00       | 65.91      | -9.91 QP       |
| 3  | 0.20181 | 0.02       | 9.70        | 32.60      | 42.32       | 53.54      | -11.22 Average |
| 4  | 0.20181 | 0.02       | 9.70        | 41.47      | 51.19       | 63.54      | -12.34 QP      |
| 5  | 0.30509 | 0.01       | 9.71        | 26.00      | 35.72       | 50.10      | -14.39 Average |
| 6  | 0.30509 | 0.01       | 9.71        | 31.25      | 40.97       | 60.10      | -19.14 QP      |
| 7  | 0.50737 | 0.01       | 9.80        | 20.50      | 30.31       | 46.00      | -15.69 Average |
| 8  | 0.50737 | 0.01       | 9.80        | 28.00      | 37.81       | 56.00      | -18.19 QP      |
| 9  | 1.317   | 0.02       | 9.80        | 17.00      | 26.82       | 46.00      | -19.18 Average |
| 10 | 1.317   | 0.02       | 9.80        | 23.74      | 33.56       | 56.00      | -22.44 QP      |
| 11 | 6.285   | 0.01       | 9.90        | 17.68      | 27.59       | 50.00      | -22.41 Average |
| 12 | 6.285   | 0.01       | 9.90        | 24.68      | 34.59       | 60.00      | -25.41 QP      |

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Neutral Line:



Site : Shielding Room  
 Condition : 47 CFR PART 15 B QP CE NEUTRAL  
 Job No. : 4245RF  
 Mode : AC charge + Transmitting

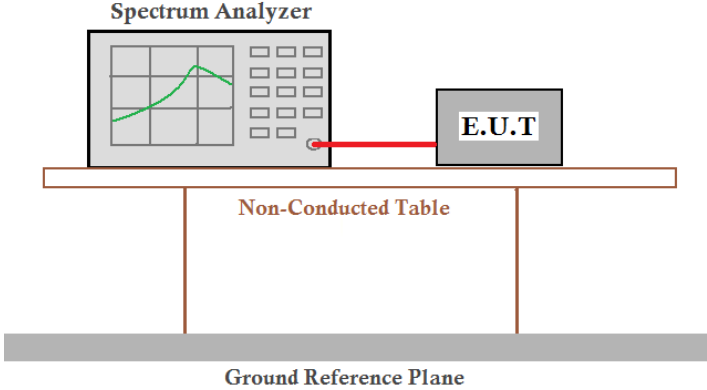
|     | Freq    | Cable Loss | LISN Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark  |
|-----|---------|------------|-------------|------------|-------------|------------|------------|---------|
|     | MHz     | dB         | dB          | dBuV       | dBuV        | dBuV       | dB         |         |
| 1   | 0.15649 | 0.02       | 9.70        | 45.80      | 55.52       | 65.65      | -10.13     | QP      |
| 2 @ | 0.15649 | 0.02       | 9.70        | 37.30      | 47.02       | 55.65      | -8.63      | Average |
| 3   | 0.20723 | 0.02       | 9.70        | 30.17      | 39.88       | 53.32      | -13.43     | Average |
| 4   | 0.20723 | 0.02       | 9.70        | 38.17      | 47.88       | 63.32      | -15.43     | QP      |
| 5   | 0.26025 | 0.02       | 9.70        | 28.00      | 37.72       | 51.42      | -13.71     | Average |
| 6   | 0.26025 | 0.02       | 9.70        | 35.61      | 45.32       | 61.42      | -16.10     | QP      |
| 7   | 0.57010 | 0.01       | 9.80        | 20.84      | 30.65       | 46.00      | -15.35     | Average |
| 8   | 0.57010 | 0.01       | 9.80        | 28.84      | 38.65       | 56.00      | -17.35     | QP      |
| 9   | 0.98914 | 0.02       | 9.80        | 20.00      | 29.82       | 46.00      | -16.18     | Average |
| 10  | 0.98914 | 0.02       | 9.80        | 25.96      | 35.78       | 56.00      | -20.22     | QP      |
| 11  | 3.472   | 0.02       | 9.86        | 21.42      | 31.30       | 56.00      | -24.70     | QP      |
| 12  | 3.472   | 0.02       | 9.86        | 16.00      | 25.88       | 46.00      | -20.12     | Average |

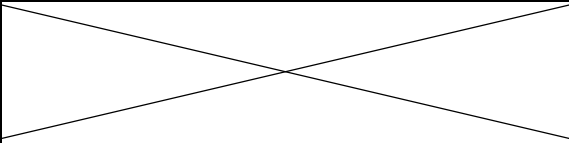
Notes:

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:           | ANSI C63.10 2009 and KDB558074 D01  |
| Test Setup:            |  <p><i>Remark:</i><br/>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p> |
| Test Instruments:      | Refer to section 4.10 for details   |
| Exploratory Test Mode: | Transmitting mode   |
| Final Test Mode:       | Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g.  |
| Limit:                 | 30dBm   |
| Test Results:          | Pass  |

|   |         |       |         |        |  |        |        |        |
|---|---------|-------|---------|--------|--|--------|--------|--------|
| Pre-scan under all rate at lowest channel 1   |         |       |         |        |  |        |        |        |
| Mode  | 802.11b |       |         |        |  |        |        |        |
| Data Rate   | 1Mbps   | 2Mbps | 5.5Mbps | 11Mbps |  |        |        |        |
| Power (dBm)   | 14.15   | 14.96 | 16.16   | 17.49  |  |        |        |        |
| Mode  | 802.11g |       |         |        |  |        |        |        |
| Data Rate   | 6Mbps   | 9Mbps | 12Mbps  | 18Mbps | 24Mbps   | 36Mbps | 48Mbps | 54Mbps |
| Through Pre-scan, 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g. |         |       |         |        |  |        |        |        |

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**Measurement Data**

| 802.11b mode |                         |             |        |
|--------------|-------------------------|-------------|--------|
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest       | 17.49                   | 30.00       | Pass   |
| Middle       | 17.83                   | 30.00       | Pass   |
| Highest      | 17.74                   | 30.00       | Pass   |
| 802.11g mode |                         |             |        |
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest       | 15.81                   | 30.00       | Pass   |
| Middle       | 16.28                   | 30.00       | Pass   |
| Highest      | 16.78                   | 30.00       | Pass   |

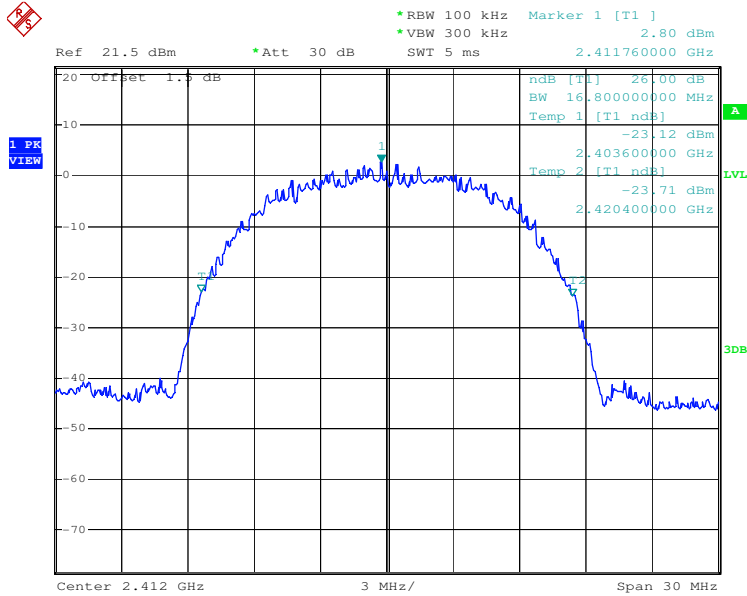
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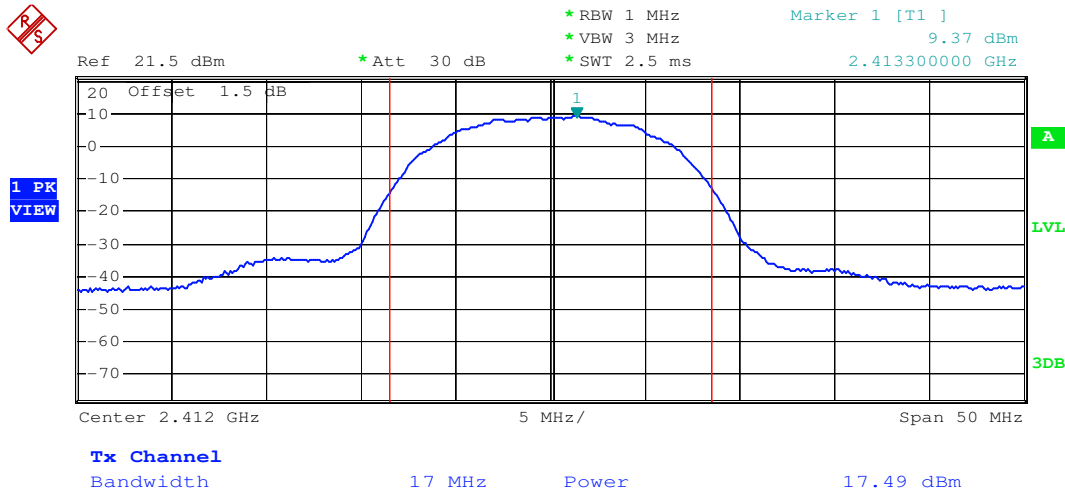


Test plot as follows:

|            |         |               |        |               |
|------------|---------|---------------|--------|---------------|
| Test mode: | 802.11b | Test channel: | Lowest | -26 bandwidth |
|------------|---------|---------------|--------|---------------|



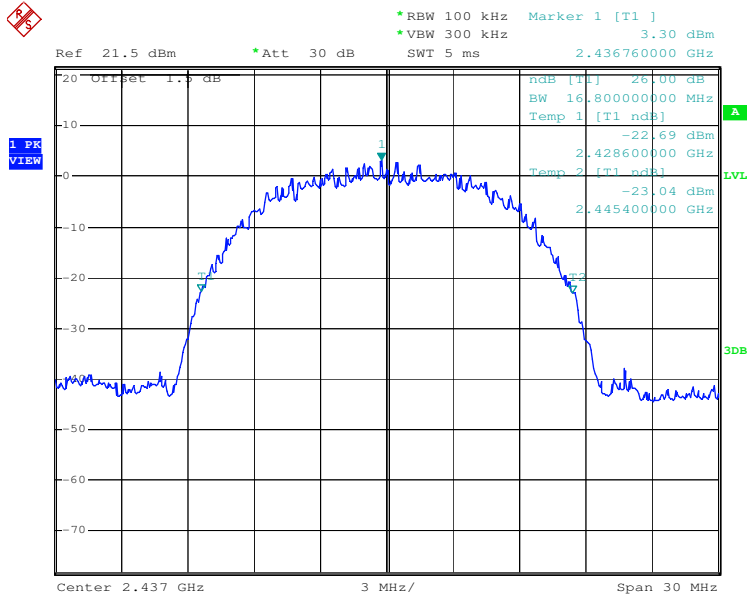
|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|



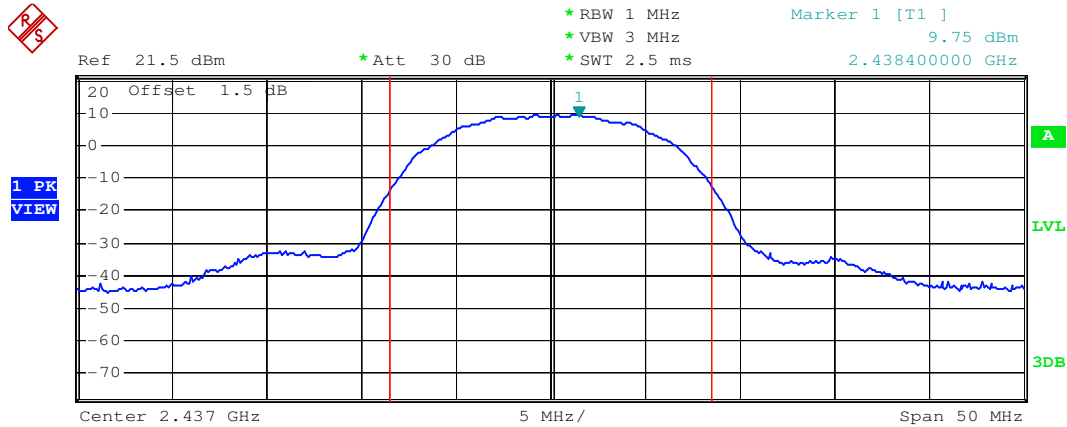
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|            |         |               |        |               |
|------------|---------|---------------|--------|---------------|
| Test mode: | 802.11b | Test channel: | Middle | -26 bandwidth |
|------------|---------|---------------|--------|---------------|



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



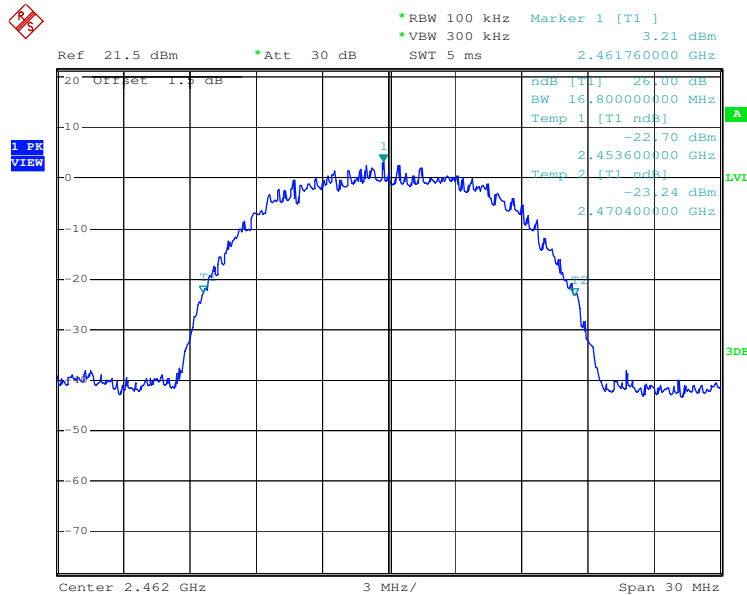
**Tx Channel**  
 Bandwidth 17 MHz Power 17.83 dBm



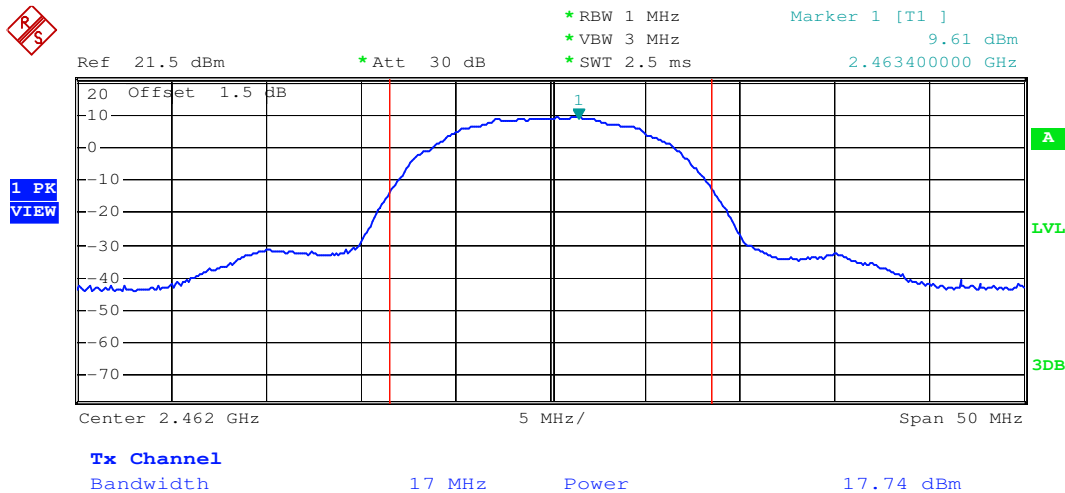
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|            |         |               |         |               |
|------------|---------|---------------|---------|---------------|
| Test mode: | 802.11b | Test channel: | Highest | -26 bandwidth |
|------------|---------|---------------|---------|---------------|



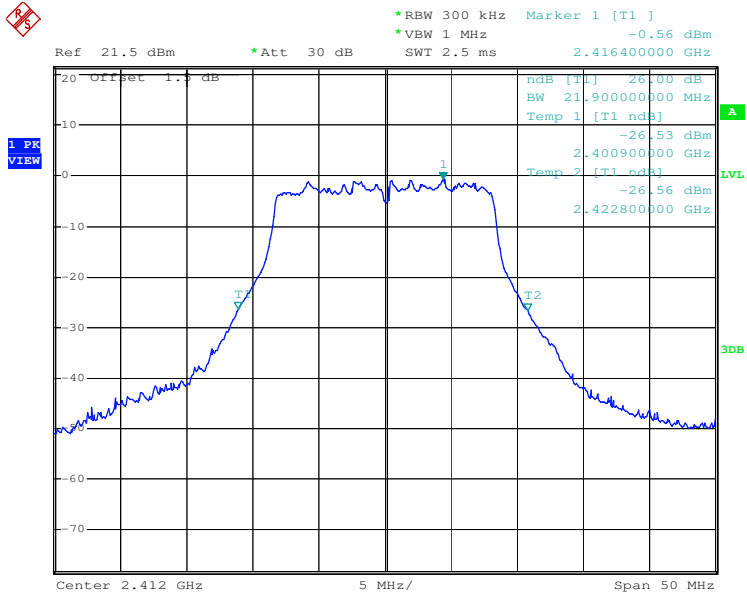
|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|



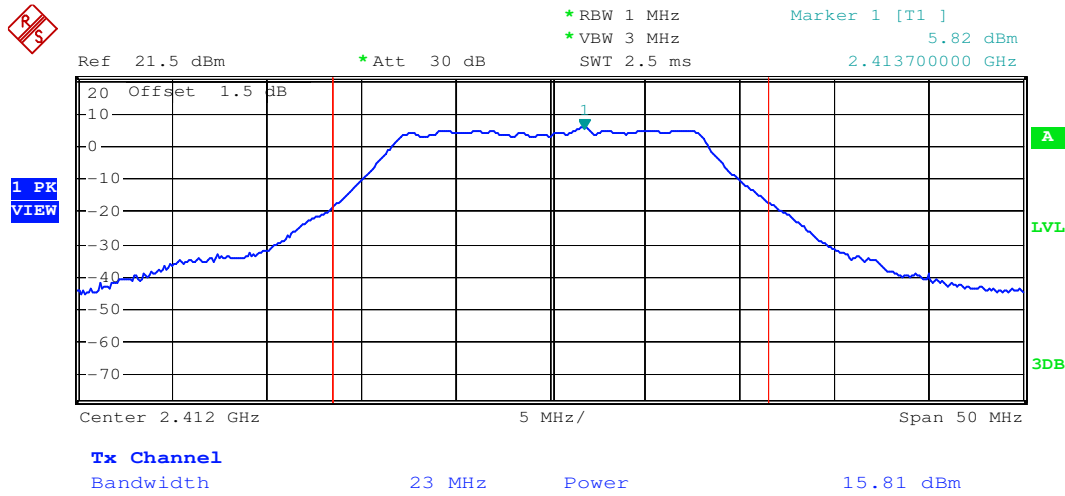
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|            |         |               |        |               |
|------------|---------|---------------|--------|---------------|
| Test mode: | 802.11g | Test channel: | Lowest | -26 bandwidth |
|------------|---------|---------------|--------|---------------|



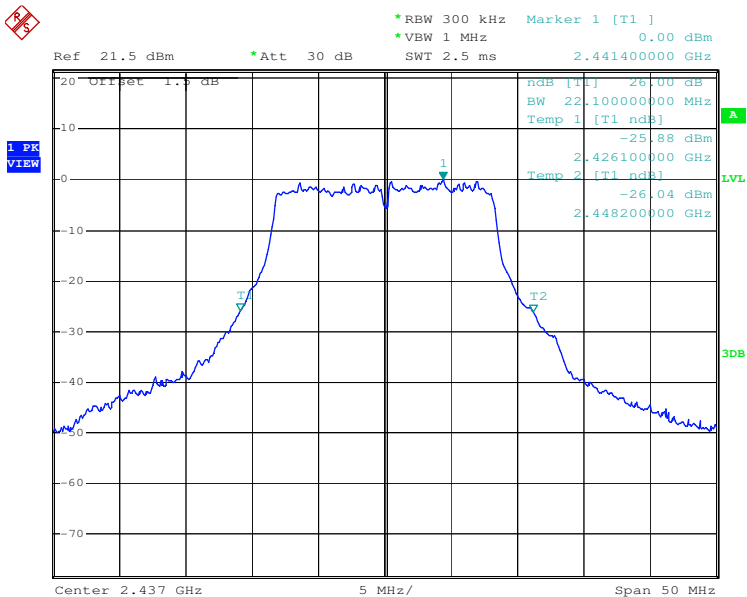
|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|



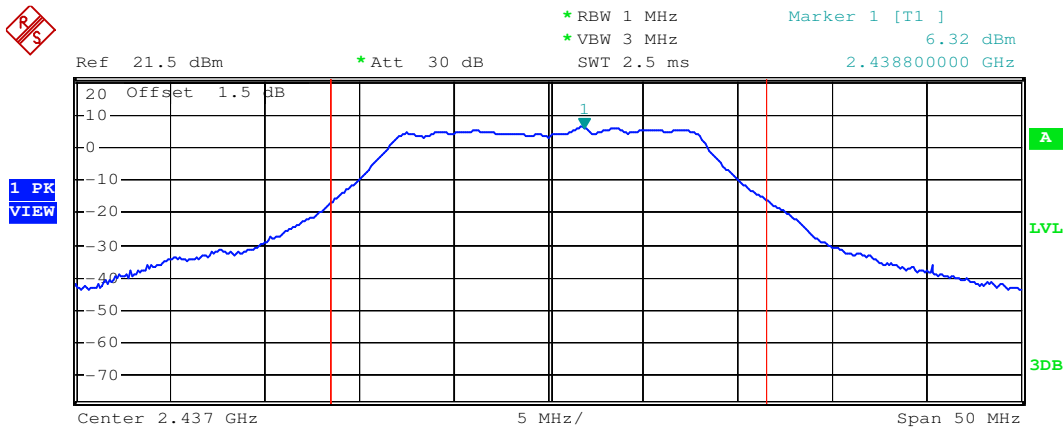
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|            |         |               |        |               |
|------------|---------|---------------|--------|---------------|
| Test mode: | 802.11g | Test channel: | Middle | -26 bandwidth |
|------------|---------|---------------|--------|---------------|



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

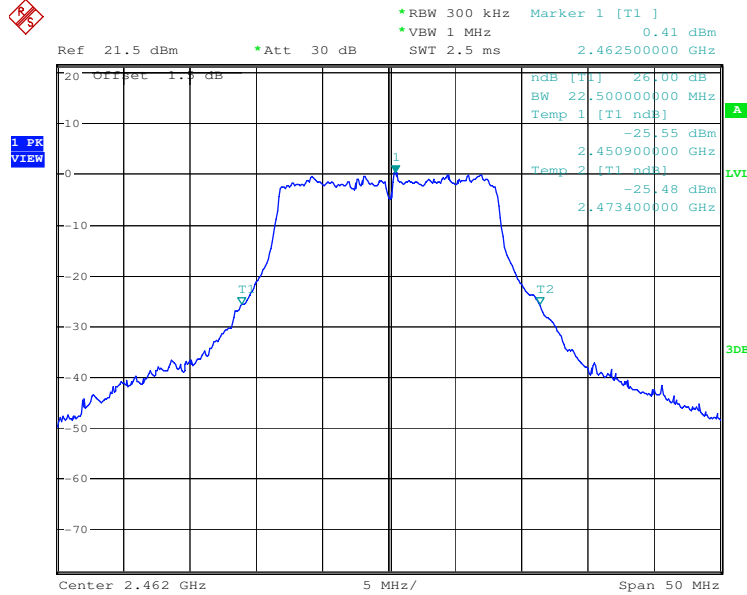


Tx Channel  
 Bandwidth 23 MHz Power 16.28 dBm

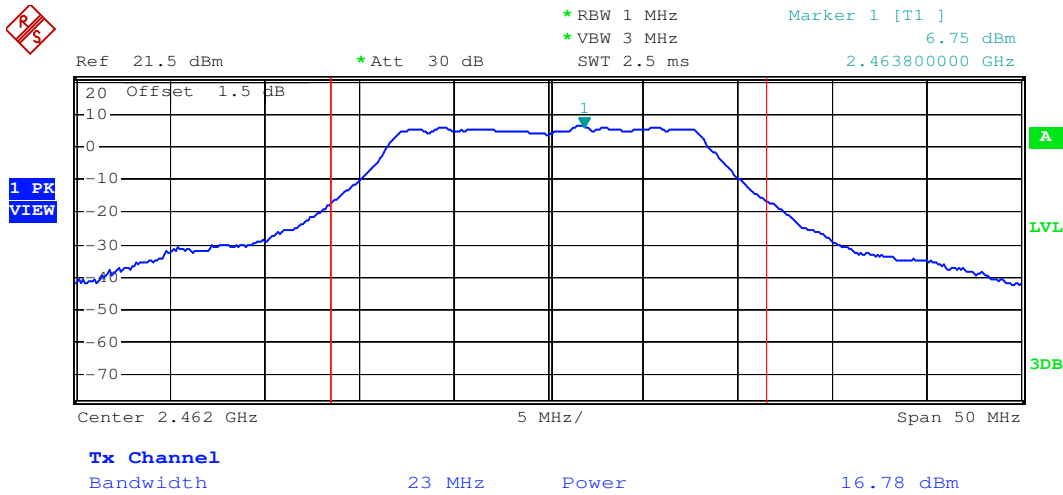
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|            |         |               |         |               |
|------------|---------|---------------|---------|---------------|
| Test mode: | 802.11g | Test channel: | Highest | -26 bandwidth |
|------------|---------|---------------|---------|---------------|

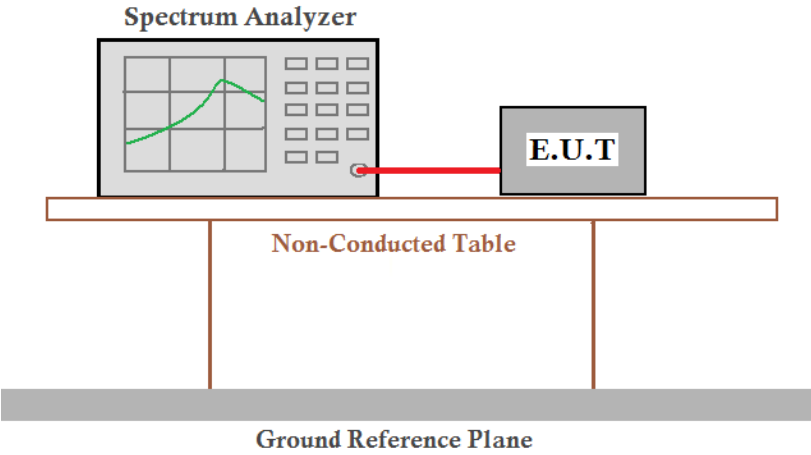


|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|



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### 5.4 6dB Occupy Bandwidth

|                        |  |
|------------------------|--|
| Test Requirement:      | 47 CFR Part 15C Section 15.247 (a)(2)  |
| Test Method:           | ANSI C63.10 2009 and KDB558074 D01   |
| Test Setup:            |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p> |
| Instruments Used:      | Refer to section 4.10 for details  |
| Exploratory Test Mode: | Transmitting mode  |
| Final Test Mode:       | Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g.   |
| Limit:                 | ≥ 500 kHz  |
| Test Results:          | Pass   |

#### Measurement Data

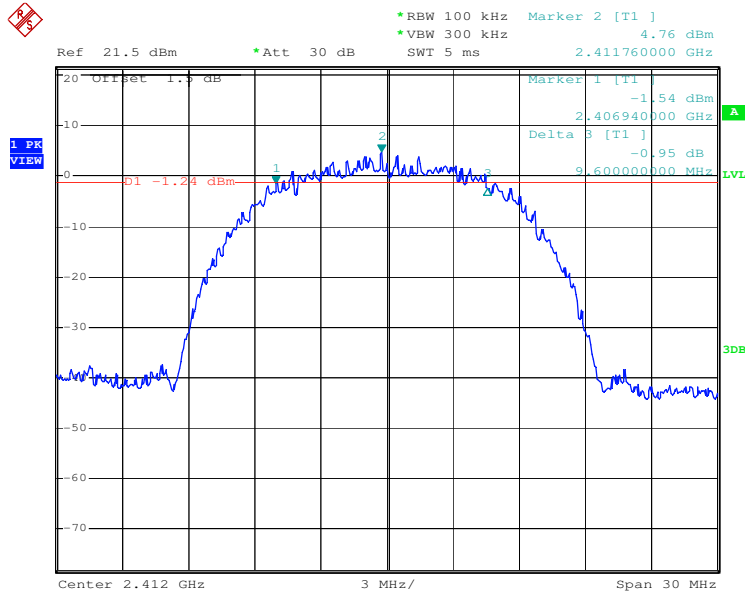
| 802.11b mode |                            |             |        |
|--------------|----------------------------|-------------|--------|
| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (kHz) | Result |
| Lowest       | 9.60                       | ≥500        | Pass   |
| Middle       | 9.66                       | ≥500        | Pass   |
| Highest      | 9.66                       | ≥500        | Pass   |
| 802.11g mode |                            |             |        |
| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (kHz) | Result |
| Lowest       | 16.68                      | ≥500        | Pass   |
| Middle       | 16.68                      | ≥500        | Pass   |
| Highest      | 16.62                      | ≥500        | Pass   |

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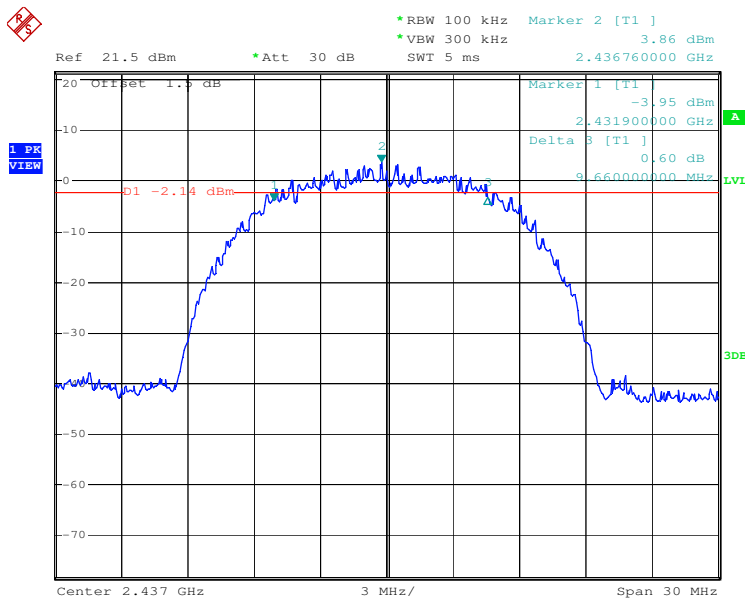


Test plot as follows:

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



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

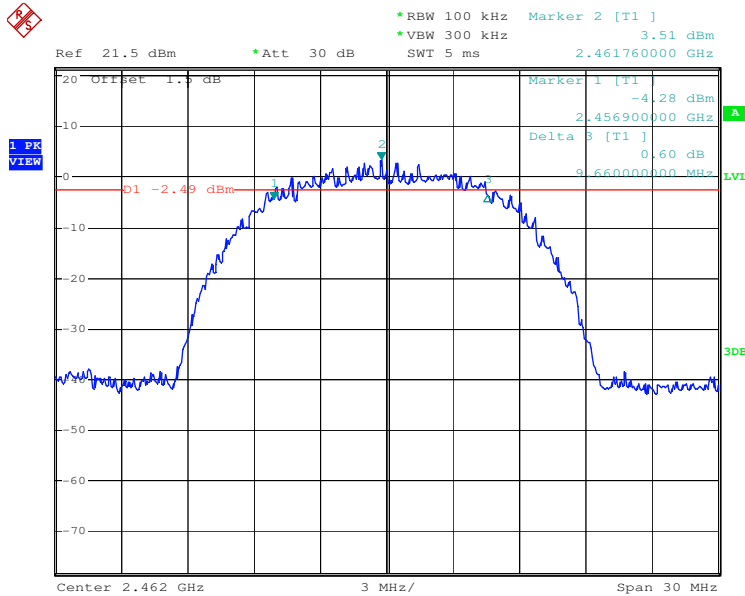


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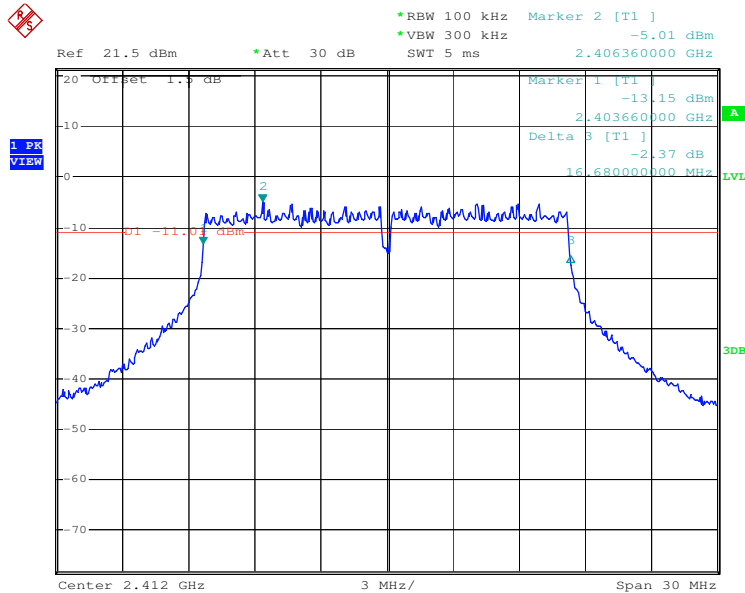




|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|



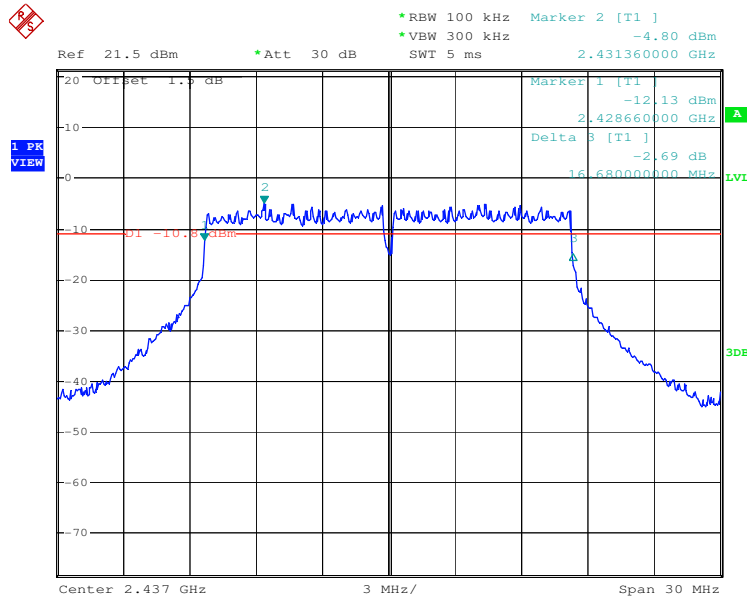
|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|



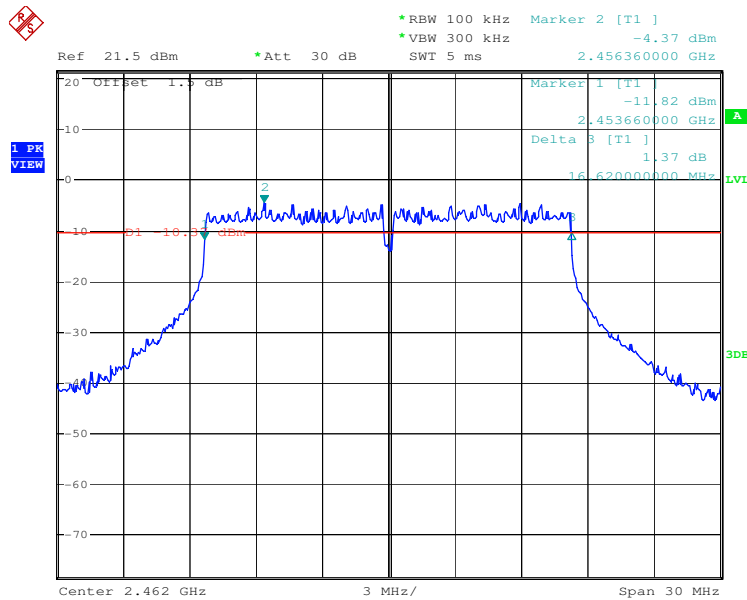
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|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Middle |
|------------|---------|---------------|--------|

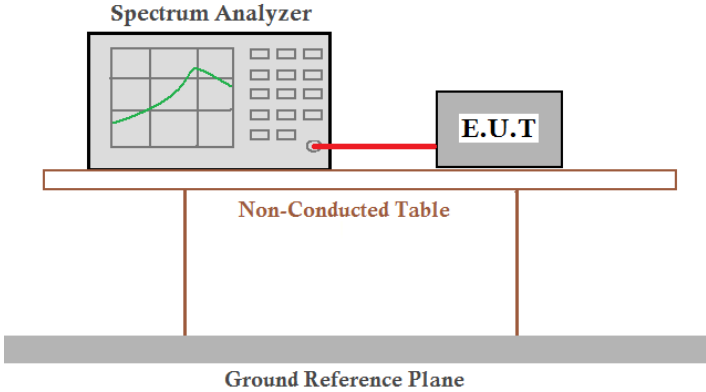


|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|



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### 5.5 Power Spectral Density

|                        |  |
|------------------------|--|
| Test Requirement:      | 47 CFR Part 15C Section 15.247 (e)   |
| Test Method:           | ANSI C63.10 2009 and KDB558074 D01   |
| Test Setup:            |  <p><i>Remark:</i><br/>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>  |
| 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 ; 6Mbps of rate is the worst case of 802.11n (HT20); 6Mbps of rate is the worst case of 802.11n (HT40)<br>Scale the observed power level to an equivalent level in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where: $BWCF = 10\log(3\text{kHz}/100\text{ kHz} = -15.2\text{ dB})$ . |
| Limit:                 | ≤8.00dBm   |
| Test Results:          | Pass   |

#### Measurement Data

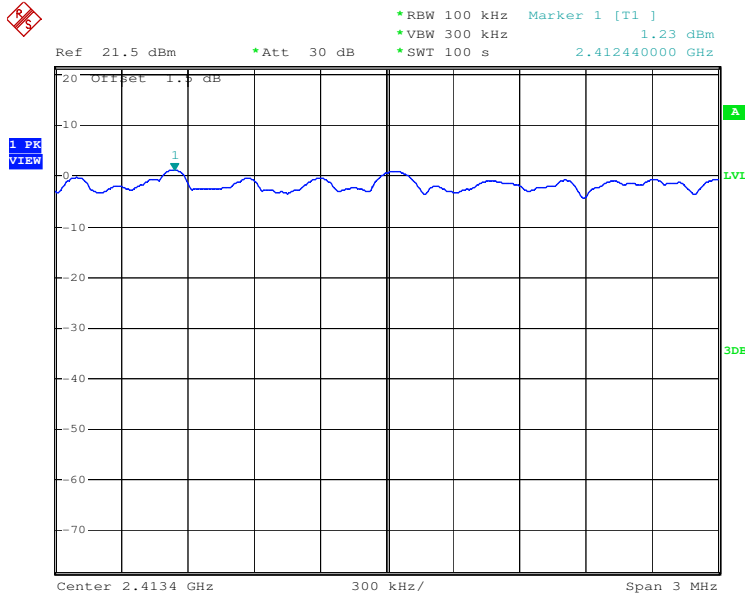
| 802.11b mode |                              |             |        |
|--------------|------------------------------|-------------|--------|
| Test channel | Power Spectral Density (dBm) | Limit (dBm) | Result |
| Lowest       | -13.97                       | ≤8.00       | Pass   |
| Middle       | -13.50                       | ≤8.00       | Pass   |
| Highest      | -12.83                       | ≤8.00       | Pass   |
| 802.11g mode |                              |             |        |
| Test channel | Power Spectral Density (dBm) | Limit (dBm) | Result |
| Lowest       | -21.51                       | ≤8.00       | Pass   |
| Middle       | -21.04                       | ≤8.00       | Pass   |
| Highest      | -20.23                       | ≤8.00       | Pass   |

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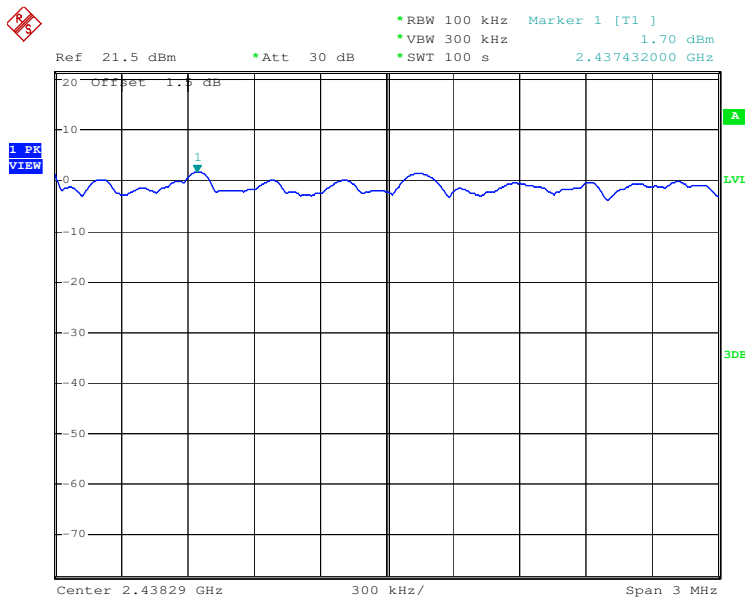


Test plot as follows:

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



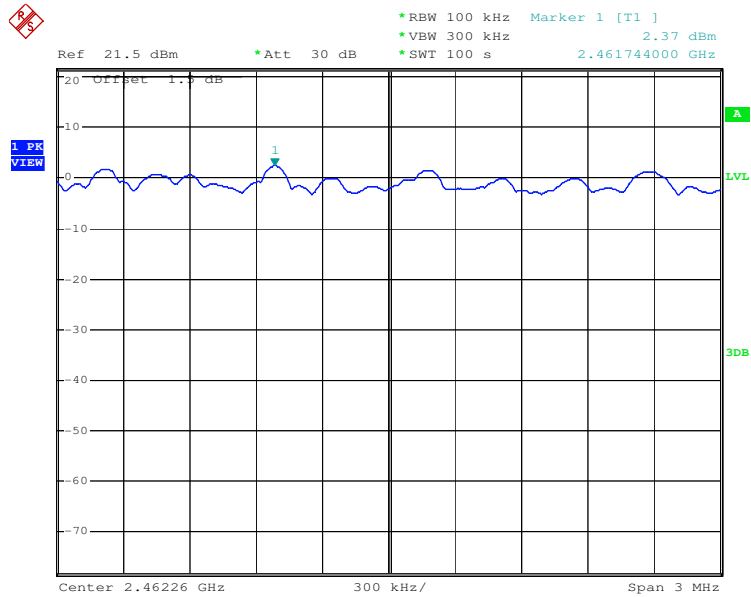
|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Middle |
|------------|---------|---------------|--------|



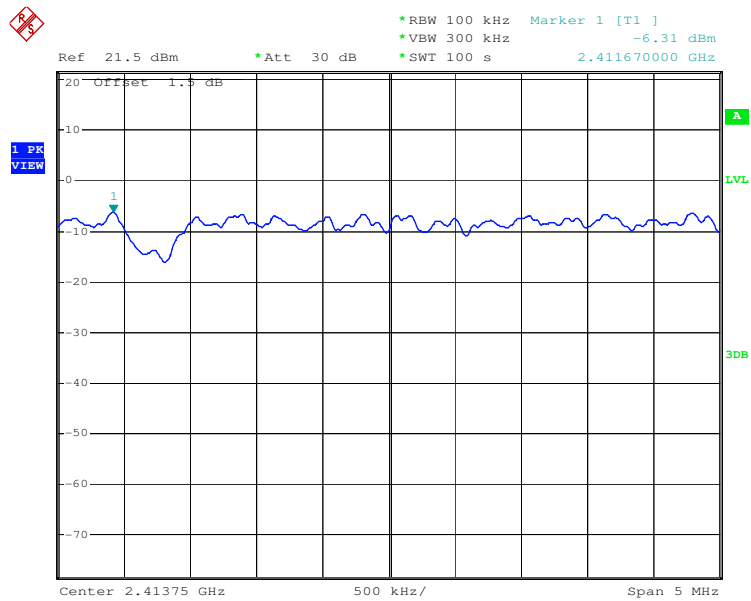
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|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|



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



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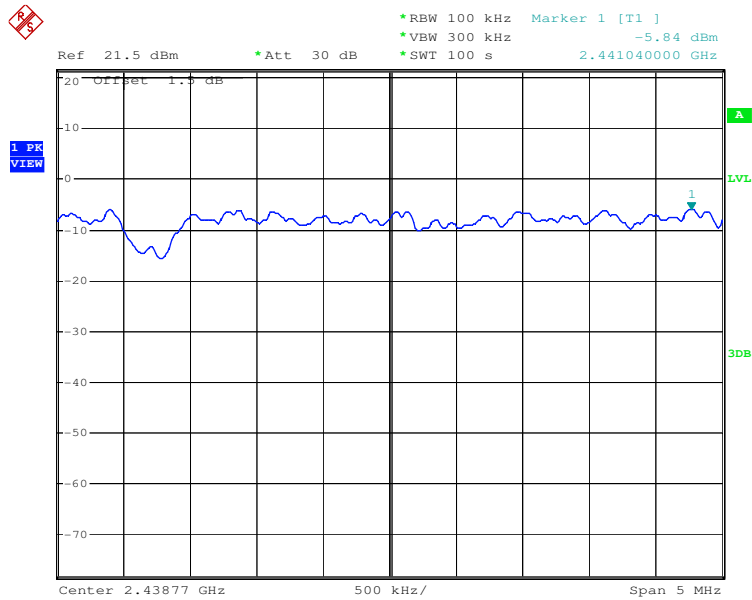


# SGS-CSTC Standards Technical Services Ltd.

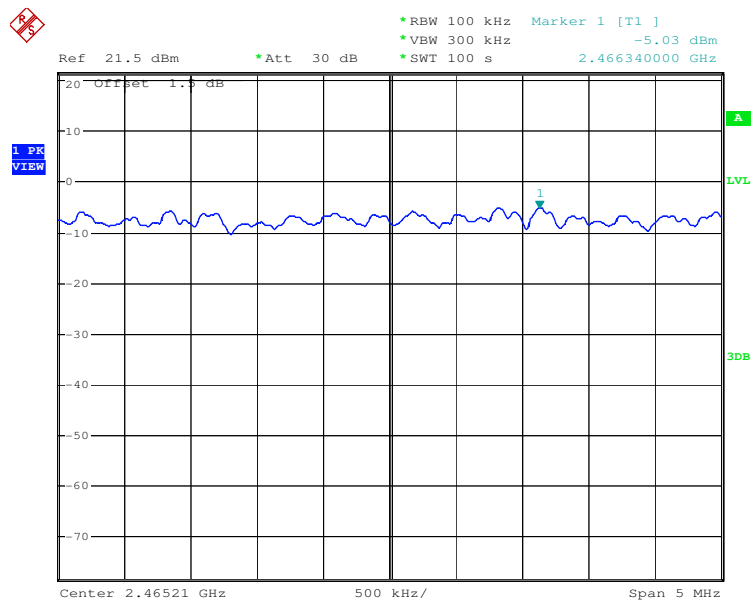
Report No.: SZEM120700424501

Page: 30 of 66

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

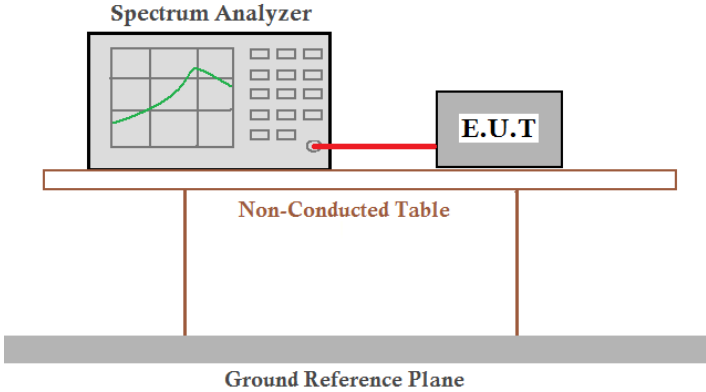


|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|



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### 5.6 Band-edge for RF Conducted Emissions

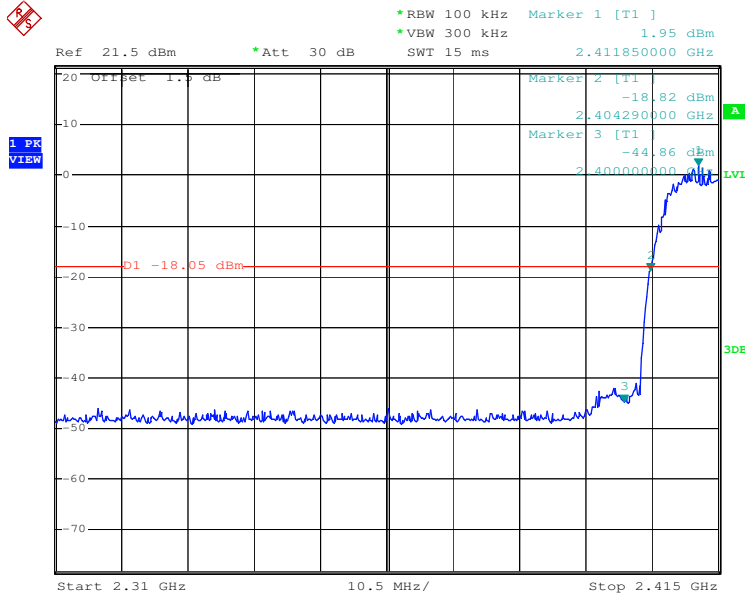
|                        |   |
|------------------------|---|
| Test Requirement:      | 47 CFR Part 15C Section 15.247 (d)  |
| Test Method:           | ANSI C63.10 2009 and KDB558074 D01  |
| Test Setup:            |  <p><i>Remark:</i><br/>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>   |
| Exploratory Test Mode: | Transmitting mode   |
| Final Test Mode:       | Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g.  |
| 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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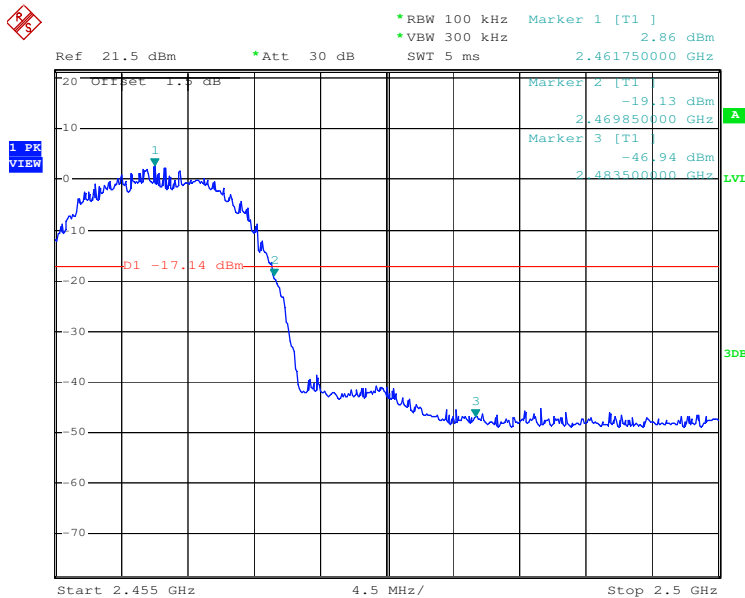


Test plot as follows:

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



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

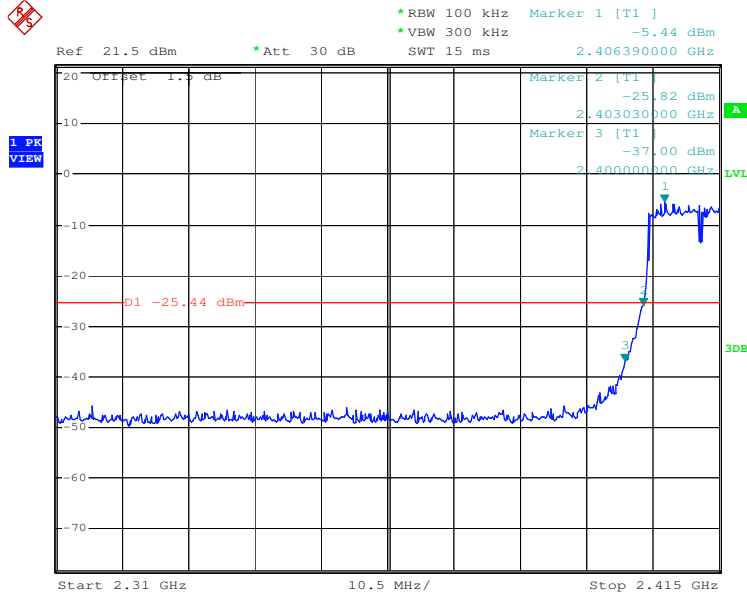


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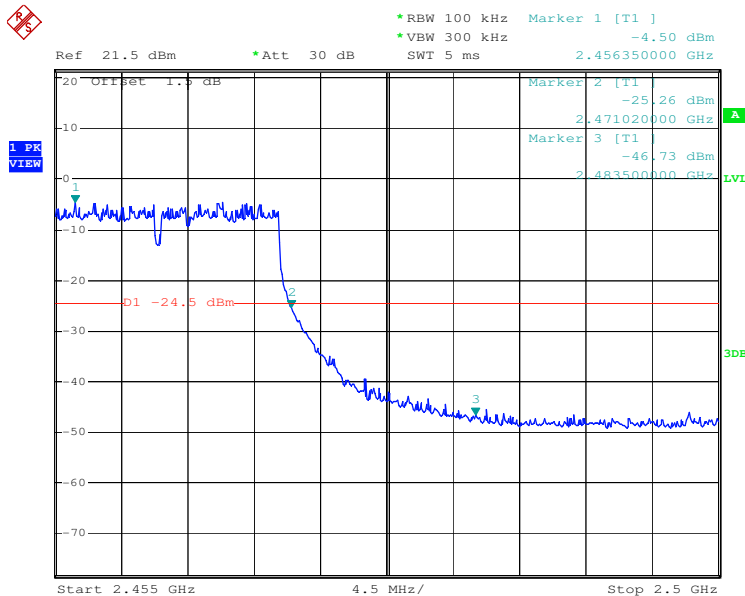




|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|

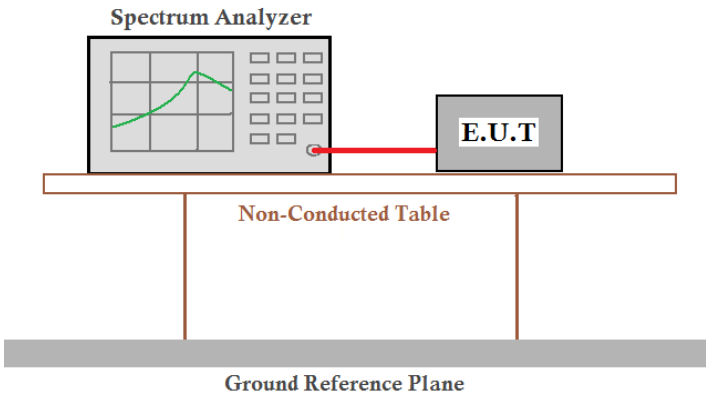


|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|



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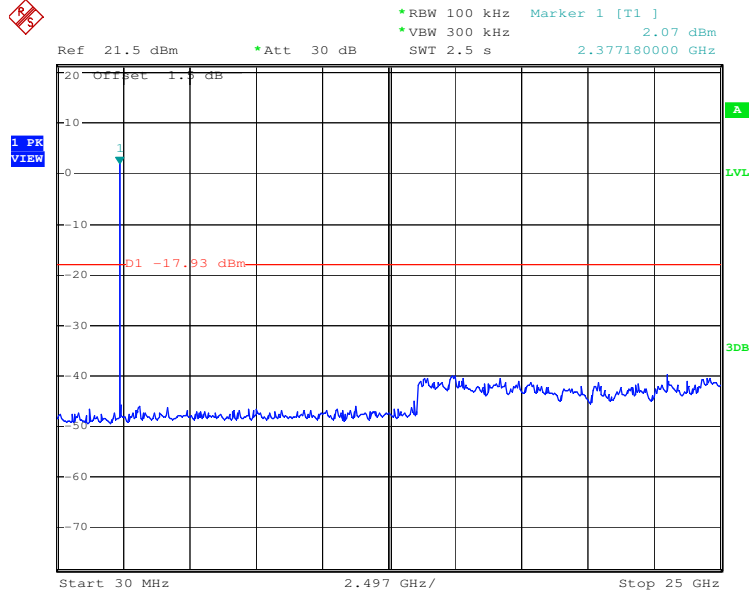
### 5.7 RF Conducted Spurious Emissions

|                        |   |
|------------------------|---|
| Test Requirement:      | 47 CFR Part 15C Section 15.247 (d)  |
| Test Method:           | ANSI C63.10 2009 and KDB558074 D01  |
| Test Setup:            |  <p><i>Remark:<br/>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>   |
| Exploratory Test Mode: | Transmitting mode   |
| Final Test Mode:       | Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g.  |
| 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  |

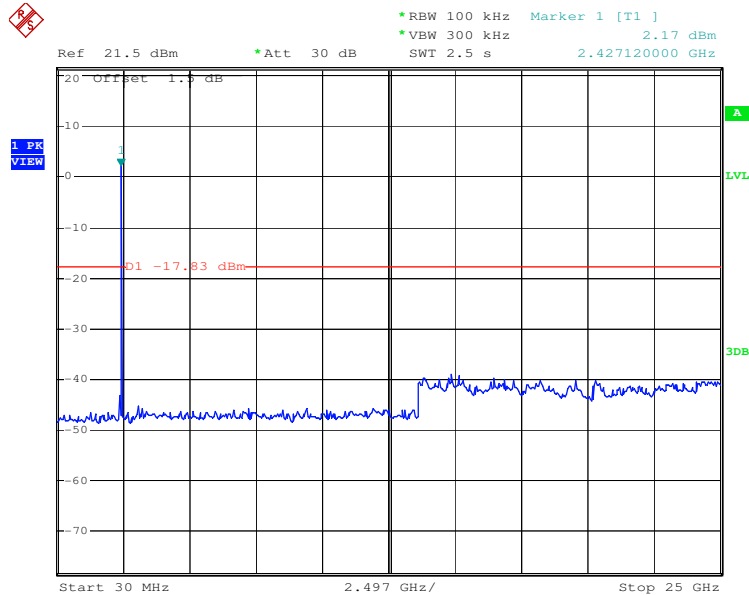


Test plot as follows:

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



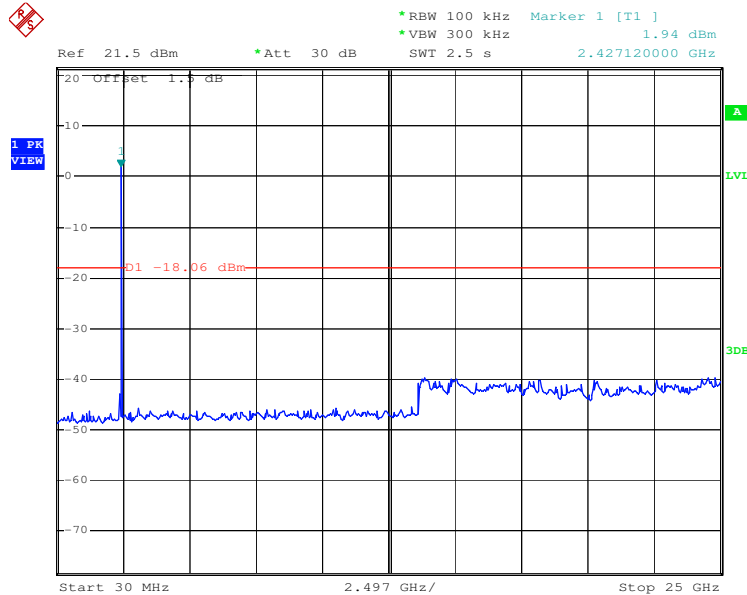
|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Middle |
|------------|---------|---------------|--------|



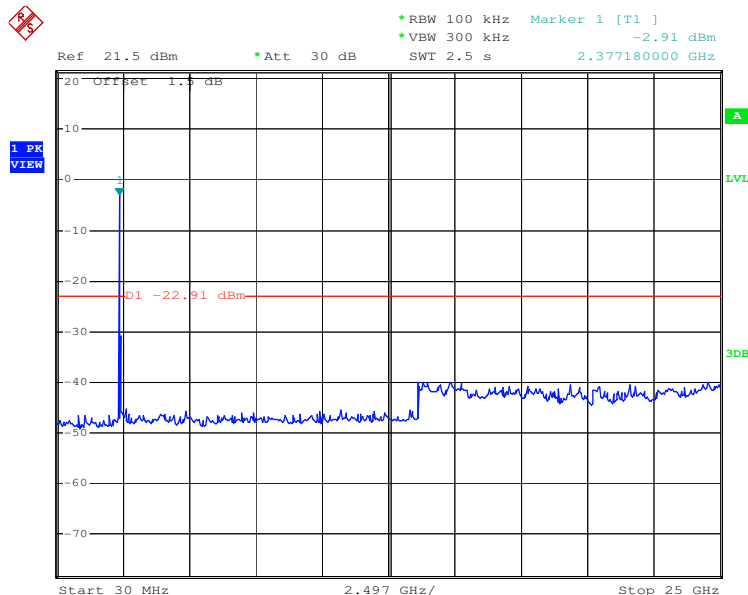
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|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

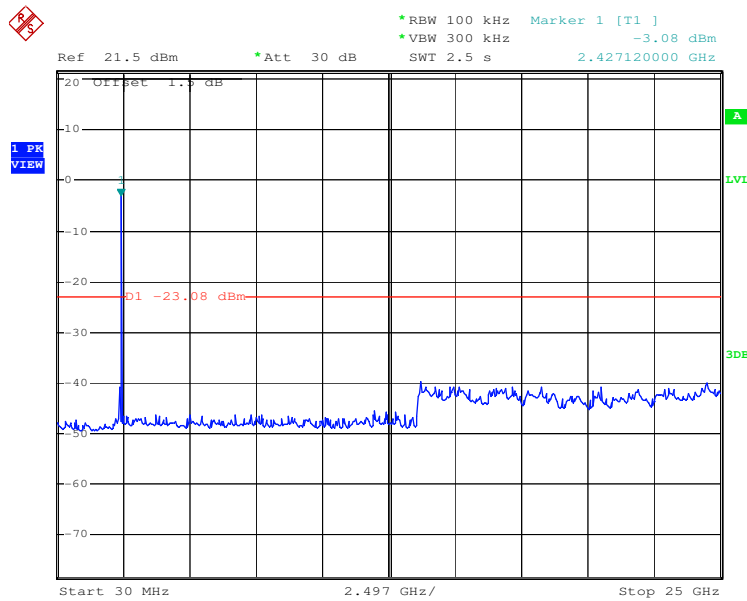


|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|

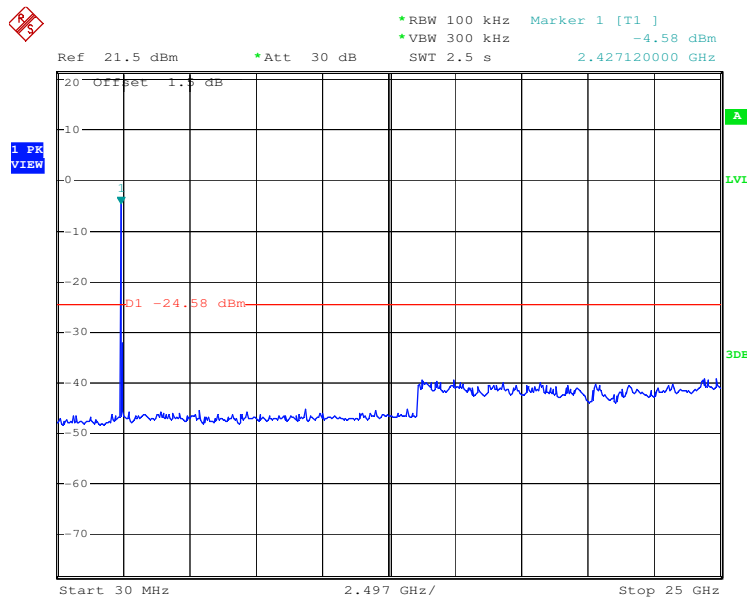


|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Middle |
|------------|---------|---------------|--------|

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



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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 and KDB558074 D01               |                                  |                |            |                          |
| 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                        |
| <p>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.</p> |  |                                  |                |            |                          |



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Test Setup:

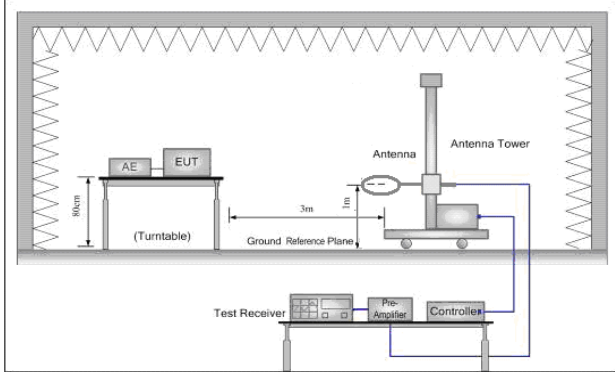


Figure 1. Below 30MHz

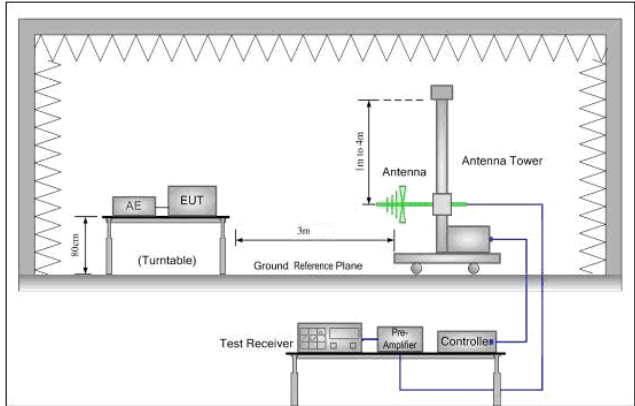


Figure 2. 30MHz to 1GHz

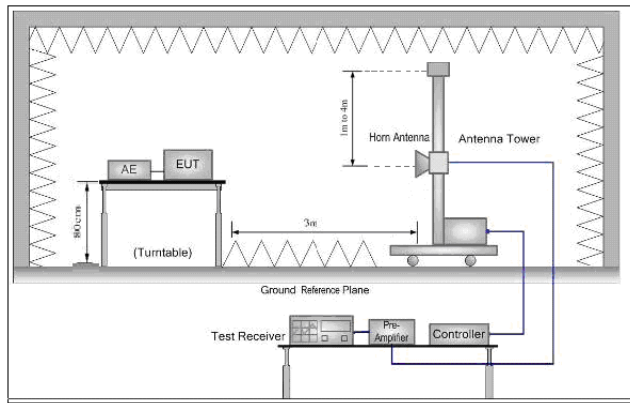


Figure 3. Above 1 GHz

|                        |   |
|------------------------|---|
| <p>Test Procedure:</p> | <ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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</li> </ol> |
|------------------------|---|

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|                        |   |
|------------------------|---|
|                        | <p>margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> |
| Exploratory Test Mode: | Transmitting mode, PC Charge + Transmitting mode, AC Charge + Transmitting mode, Vehicle Charge + Transmitting mode.  |
| Test Status:           | Pretest the EUT at different test mode and found the AC Charge + transmitting mode which is worst case, the test worst case mode is recorded in the report.   |
| Final Test Mode:       | Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g.  |
| Instruments Used:      | Refer to section 4.10 for details   |
| Test Results:          | Pass  |

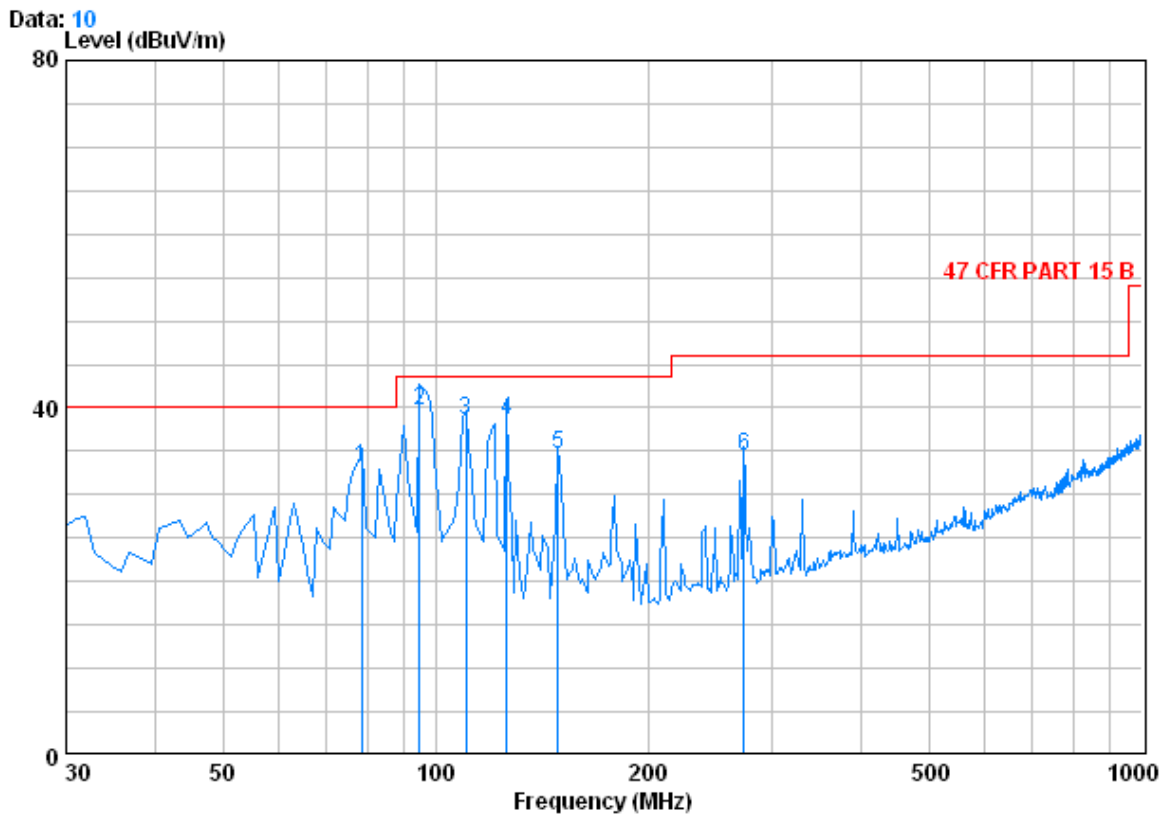
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5.8.1 Radiated emission below 1GHz

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



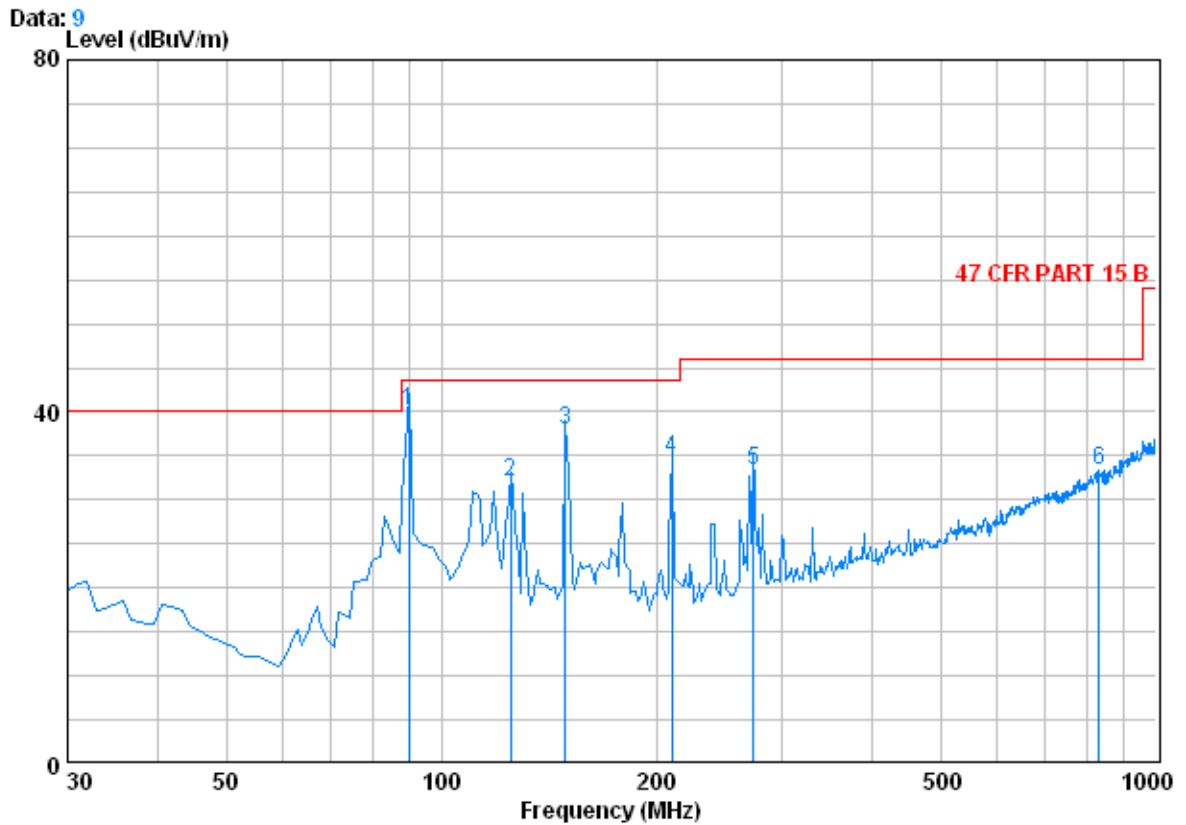
Condition : 47 CFR PART 15 B 3m 3142C VERTICAL  
 Job No. : 4245RF  
 Mode : Transmitting+AC Charge

|   | Freq    | Cable Loss | Antenna Factor | Preamp Factor | Read Level | Level  | Limit  | Over   |
|---|---------|------------|----------------|---------------|------------|--------|--------|--------|
|   | MHz     | dB         | dB/m           | dB            | dBuV       | dBuV/m | dBuV/m | dB     |
| 1 | 78.500  | 1.05       | 7.59           | 27.23         | 51.83      | 33.24  | 40.00  | -6.76  |
| 2 | 94.990  | 1.15       | 8.91           | 27.21         | 56.79      | 39.64  | 43.50  | -3.86  |
| 3 | 110.510 | 1.23       | 8.57           | 27.13         | 55.97      | 38.65  | 43.50  | -4.85  |
| 4 | 126.030 | 1.27       | 7.77           | 27.03         | 56.50      | 38.50  | 43.50  | -5.00  |
| 5 | 149.310 | 1.32       | 8.91           | 26.91         | 51.24      | 34.56  | 43.50  | -8.94  |
| 6 | 273.470 | 1.78       | 12.78          | 26.47         | 46.39      | 34.49  | 46.00  | -11.51 |

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|            |              |            |
|------------|--------------|------------|
| Test mode: | Transmitting | Horizontal |
|------------|--------------|------------|



Condition : 47 CFR PART 15 B 3m 3142C HORIZONTAL  
 Job No. : 4245RF  
 Mode : Transmitting+AC Charge

|     | Freq    | Cable Loss | Antenna Factor | Preamplifier | Read Level | Limit Level | Limit Line | Over Limit |
|-----|---------|------------|----------------|--------------|------------|-------------|------------|------------|
|     | MHz     | dB         | dB/m           | dB           | dBuV       | dBuV/m      | dBuV/m     | dB         |
| 1 @ | 90.140  | 1.10       | 8.71           | 27.21        | 57.55      | 40.15       | 43.50      | -3.35      |
| 2   | 125.060 | 1.26       | 7.80           | 27.04        | 50.02      | 32.04       | 43.50      | -11.46     |
| 3   | 149.310 | 1.32       | 8.91           | 26.91        | 54.66      | 37.97       | 43.50      | -5.53      |
| 4   | 210.420 | 1.46       | 10.73          | 26.66        | 49.19      | 34.72       | 43.50      | -8.78      |
| 5   | 273.470 | 1.78       | 12.78          | 26.47        | 45.21      | 33.31       | 46.00      | -12.69     |
| 6   | 832.190 | 3.34       | 22.40          | 27.13        | 34.78      | 33.40       | 46.00      | -12.60     |

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5.8.2 Transmitter emission above 1GHz

| Test mode:      |                 | 802.11b               |                    | Test channel:     |                | 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) | Polarization |  |      |
| 4821.757        | 4.70            | 34.68                 | 41.64              | 52.89             | 50.63          | 74                  | -23.37          | Vertical     |  |      |
| 6428.771        | 5.24            | 36.20                 | 40.55              | 51.65             | 52.54          | 74                  | -21.46          | Vertical     |  |      |
| 7624.250        | 6.23            | 36.00                 | 39.51              | 50.83             | 53.55          | 74                  | -20.45          | Vertical     |  |      |
| 8725.477        | 6.17            | 36.37                 | 38.55              | 49.47             | 53.46          | 74                  | -20.54          | Vertical     |  |      |
| 10139.450       | 6.01            | 37.88                 | 37.51              | 49.22             | 55.60          | 74                  | -18.40          | Vertical     |  |      |
| 12429.540       | 6.58            | 39.33                 | 38.46              | 49.93             | 57.38          | 74                  | -16.62          | Vertical     |  |      |
| 4821.757        | 4.70            | 34.68                 | 41.64              | 52.62             | 50.36          | 74                  | -23.64          | Horizontal   |  |      |
| 6412.427        | 5.23            | 36.18                 | 40.56              | 51.70             | 52.55          | 74                  | -21.45          | Horizontal   |  |      |
| 7470.558        | 6.08            | 35.99                 | 39.64              | 51.59             | 54.02          | 74                  | -19.98          | Horizontal   |  |      |
| 9538.543        | 6.00            | 37.23                 | 37.86              | 48.64             | 54.01          | 74                  | -19.99          | Horizontal   |  |      |
| 10696.210       | 6.14            | 38.38                 | 37.73              | 48.44             | 55.23          | 74                  | -18.77          | Horizontal   |  |      |
| 11963.890       | 6.46            | 38.87                 | 38.26              | 49.69             | 56.76          | 74                  | -17.24          | Horizontal   |  |      |

| Test mode:      |                 | 802.11b                |                    | Test channel:        |                         | Lowest         |                 | Remark:      |  | Average |
|-----------------|-----------------|------------------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|---------|
| Frequency (MHz) | Cable loss (dB) | Antenna factors (dB/m) | Preamp factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Polarization |  |         |
| 4821.757        | 4.70            | 34.68                  | 41.64              | 38.72                | 36.46                   | 54             | -17.54          | Vertical     |  |         |
| 6428.771        | 5.24            | 36.20                  | 40.55              | 37.91                | 38.80                   | 54             | -15.20          | Vertical     |  |         |
| 7624.250        | 6.23            | 36.00                  | 39.51              | 38.81                | 41.53                   | 54             | -12.47          | Vertical     |  |         |
| 8725.477        | 6.17            | 36.37                  | 38.55              | 36.35                | 40.34                   | 54             | -13.66          | Vertical     |  |         |
| 10139.450       | 6.01            | 37.88                  | 37.51              | 34.92                | 41.30                   | 54             | -12.70          | Vertical     |  |         |
| 12429.540       | 6.58            | 39.33                  | 38.46              | 36.13                | 43.58                   | 54             | -10.42          | Vertical     |  |         |
| 4821.757        | 4.70            | 34.68                  | 41.64              | 41.71                | 39.45                   | 54             | -14.55          | Horizontal   |  |         |
| 6412.427        | 5.23            | 36.18                  | 40.56              | 37.73                | 38.58                   | 54             | -15.42          | Horizontal   |  |         |
| 7470.558        | 6.08            | 35.99                  | 39.64              | 39.54                | 41.97                   | 54             | -12.03          | Horizontal   |  |         |
| 9538.543        | 6.00            | 37.23                  | 37.86              | 35.29                | 40.66                   | 54             | -13.34          | Horizontal   |  |         |
| 10696.210       | 6.14            | 38.38                  | 37.73              | 34.53                | 41.32                   | 54             | -12.68          | Horizontal   |  |         |
| 11963.890       | 6.46            | 38.87                  | 38.26              | 36.08                | 43.15                   | 54             | -10.85          | Horizontal   |  |         |

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| Test mode:      |                 | 802.11b               |                    | Test channel:     |                | 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) | Polarization |  |      |
| 4871.103        | 4.72            | 34.59                 | 41.68              | 51.00             | 48.63          | 74                  | -25.37          | Vertical     |  |      |
| 6494.564        | 5.26            | 36.28                 | 40.50              | 51.22             | 52.26          | 74                  | -21.74          | Vertical     |  |      |
| 7800.936        | 6.22            | 36.00                 | 39.36              | 50.38             | 53.24          | 74                  | -20.76          | Vertical     |  |      |
| 9370.083        | 6.05            | 37.03                 | 37.99              | 49.00             | 54.09          | 74                  | -19.91          | Vertical     |  |      |
| 10480.590       | 6.09            | 38.28                 | 37.65              | 48.07             | 54.79          | 74                  | -19.21          | Vertical     |  |      |
| 12461.220       | 6.59            | 39.37                 | 38.47              | 49.51             | 57.00          | 74                  | -17.00          | Vertical     |  |      |
| 4871.103        | 4.72            | 34.59                 | 41.68              | 52.45             | 50.08          | 74                  | -23.92          | Horizontal   |  |      |
| 5910.798        | 5.09            | 35.56                 | 41.01              | 51.42             | 51.06          | 74                  | -22.94          | Horizontal   |  |      |
| 7319.964        | 5.92            | 35.93                 | 39.77              | 52.81             | 54.89          | 74                  | -19.11          | Horizontal   |  |      |
| 9441.913        | 6.03            | 37.14                 | 37.94              | 48.65             | 53.88          | 74                  | -20.12          | Horizontal   |  |      |
| 10453.950       | 6.09            | 38.24                 | 37.64              | 48.22             | 54.91          | 74                  | -19.09          | Horizontal   |  |      |
| 11722.720       | 6.40            | 38.62                 | 38.16              | 49.27             | 56.13          | 74                  | -17.87          | Horizontal   |  |      |

| Test mode:      |                 | 802.11b                |                    | Test channel:        |                         | Middle         |                 | Remark:      |  | Average |
|-----------------|-----------------|------------------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|---------|
| Frequency (MHz) | Cable loss (dB) | Antenna factors (dB/m) | Preamp factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Polarization |  |         |
| 4871.103        | 4.72            | 34.59                  | 41.68              | 38.91                | 36.54                   | 54             | -17.46          | Vertical     |  |         |
| 6494.564        | 5.26            | 36.28                  | 40.50              | 37.66                | 38.70                   | 54             | -15.30          | Vertical     |  |         |
| 7800.936        | 6.22            | 36.00                  | 39.36              | 38.21                | 41.07                   | 54             | -12.93          | Vertical     |  |         |
| 9370.083        | 6.05            | 37.03                  | 37.99              | 35.43                | 40.52                   | 54             | -13.48          | Vertical     |  |         |
| 10480.590       | 6.09            | 38.28                  | 37.65              | 34.95                | 41.67                   | 54             | -12.33          | Vertical     |  |         |
| 12461.220       | 6.59            | 39.37                  | 38.47              | 35.00                | 42.49                   | 54             | -11.51          | Vertical     |  |         |
| 4871.103        | 4.72            | 34.59                  | 41.68              | 41.56                | 39.19                   | 54             | -14.81          | Horizontal   |  |         |
| 5910.798        | 5.09            | 35.56                  | 41.01              | 37.73                | 37.37                   | 54             | -16.63          | Horizontal   |  |         |
| 7319.964        | 5.92            | 35.93                  | 39.77              | 39.97                | 42.05                   | 54             | -11.95          | Horizontal   |  |         |
| 9441.913        | 6.03            | 37.14                  | 37.94              | 35.08                | 40.31                   | 54             | -13.69          | Horizontal   |  |         |
| 10453.950       | 6.09            | 38.24                  | 37.64              | 34.88                | 41.57                   | 54             | -12.43          | Horizontal   |  |         |
| 11722.720       | 6.40            | 38.62                  | 38.16              | 35.18                | 42.04                   | 54             | -11.96          | Horizontal   |  |         |

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| Test mode:      |                 | 802.11b               |                    | Test channel:     |                | 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 |  |      |
| 4547.561        | 4.53            | 35.12                 | 41.44              | 50.89             | 49.10          | 74                  | -24.90          | Vertical     |  |      |
| 6561.030        | 5.27            | 36.25                 | 40.43              | 50.39             | 51.48          | 74                  | -22.52          | Vertical     |  |      |
| 7470.558        | 6.08            | 35.99                 | 39.64              | 49.85             | 52.28          | 74                  | -21.72          | Vertical     |  |      |
| 9465.979        | 6.02            | 37.16                 | 37.91              | 47.94             | 53.21          | 74                  | -20.79          | Vertical     |  |      |
| 10480.590       | 6.09            | 38.28                 | 37.65              | 47.82             | 54.54          | 74                  | -19.46          | Vertical     |  |      |
| 11933.470       | 6.45            | 38.83                 | 38.24              | 49.10             | 56.14          | 74                  | -17.86          | Vertical     |  |      |
| 4536.000        | 4.52            | 35.14                 | 41.43              | 51.21             | 49.44          | 74                  | -24.56          | Horizontal   |  |      |
| 6544.350        | 5.27            | 36.27                 | 40.45              | 51.23             | 52.32          | 74                  | -21.68          | Horizontal   |  |      |
| 7394.878        | 6.00            | 35.96                 | 39.71              | 51.04             | 53.29          | 74                  | -20.71          | Horizontal   |  |      |
| 8441.459        | 6.18            | 36.18                 | 38.80              | 49.64             | 53.20          | 74                  | -20.80          | Horizontal   |  |      |
| 10139.450       | 6.01            | 37.88                 | 37.51              | 48.63             | 55.01          | 74                  | -18.99          | Horizontal   |  |      |
| 11963.890       | 6.46            | 38.87                 | 38.26              | 49.37             | 56.44          | 74                  | -17.56          | Horizontal   |  |      |

| Test mode:      |                 | 802.11b                |                    | Test channel:        |                         | Highest        |                 | Remark:      |  | Average |
|-----------------|-----------------|------------------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|---------|
| Frequency (MHz) | Cable loss (dB) | Antenna factors (dB/m) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |         |
| 4547.561        | 4.53            | 35.12                  | 41.44              | 38.13                | 36.34                   | 54             | -17.66          | Vertical     |  |         |
| 6561.030        | 5.27            | 36.25                  | 40.43              | 37.42                | 38.51                   | 54             | -15.49          | Vertical     |  |         |
| 7470.558        | 6.08            | 35.99                  | 39.64              | 38.06                | 40.49                   | 54             | -13.51          | Vertical     |  |         |
| 9465.979        | 6.02            | 37.16                  | 37.91              | 35.03                | 40.30                   | 54             | -13.70          | Vertical     |  |         |
| 10480.590       | 6.09            | 38.28                  | 37.65              | 34.86                | 41.58                   | 54             | -12.42          | Vertical     |  |         |
| 11933.470       | 6.45            | 38.83                  | 38.24              | 35.92                | 42.96                   | 54             | -11.04          | Vertical     |  |         |
| 4536.000        | 4.52            | 35.14                  | 41.43              | 40.27                | 38.50                   | 54             | -15.50          | Horizontal   |  |         |
| 6544.350        | 5.27            | 36.27                  | 40.45              | 37.67                | 38.76                   | 54             | -15.24          | Horizontal   |  |         |
| 7394.878        | 6.00            | 35.96                  | 39.71              | 38.15                | 40.40                   | 54             | -13.60          | Horizontal   |  |         |
| 8441.459        | 6.18            | 36.18                  | 38.80              | 36.21                | 39.77                   | 54             | -14.23          | Horizontal   |  |         |
| 10139.450       | 6.01            | 37.88                  | 37.51              | 34.61                | 40.99                   | 54             | -13.01          | Horizontal   |  |         |
| 11963.890       | 6.46            | 38.87                  | 38.26              | 36.04                | 43.11                   | 54             | -10.89          | Horizontal   |  |         |

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| Test mode:      |                 | 802.11g               |                    | Test channel:     |                | 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) | Polarization |  |      |
| 4490.048        | 4.48            | 35.15                 | 41.40              | 49.91             | 48.14          | 74                  | -25.86          | Vertical     |  |      |
| 5865.832        | 5.08            | 35.48                 | 41.04              | 51.18             | 50.70          | 74                  | -23.30          | Vertical     |  |      |
| 7470.558        | 6.08            | 35.99                 | 39.64              | 50.51             | 52.94          | 74                  | -21.06          | Vertical     |  |      |
| 9346.262        | 6.06            | 37.01                 | 38.03              | 48.39             | 53.43          | 74                  | -20.57          | Vertical     |  |      |
| 11027.980       | 6.23            | 38.49                 | 37.88              | 47.89             | 54.73          | 74                  | -19.27          | Vertical     |  |      |
| 11963.890       | 6.46            | 38.87                 | 38.26              | 49.55             | 56.62          | 74                  | -17.38          | Vertical     |  |      |
| 4547.561        | 4.53            | 35.12                 | 41.44              | 50.86             | 49.07          | 74                  | -24.93          | Horizontal   |  |      |
| 5732.974        | 5.03            | 35.26                 | 41.15              | 50.68             | 49.82          | 74                  | -24.18          | Horizontal   |  |      |
| 7547.013        | 6.17            | 36.00                 | 39.57              | 50.27             | 52.87          | 74                  | -21.13          | Horizontal   |  |      |
| 9465.979        | 6.02            | 37.16                 | 37.91              | 48.50             | 53.77          | 74                  | -20.23          | Horizontal   |  |      |
| 11027.980       | 6.23            | 38.49                 | 37.88              | 48.47             | 55.31          | 74                  | -18.69          | Horizontal   |  |      |
| 12055.600       | 6.48            | 38.95                 | 38.30              | 49.01             | 56.14          | 74                  | -17.86          | Horizontal   |  |      |

| Test mode:      |                 | 802.11g                |                    | Test channel:        |                         | Lowest         |                 | Remark:      |  | Average |
|-----------------|-----------------|------------------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|---------|
| Frequency (MHz) | Cable loss (dB) | Antenna factors (dB/m) | Preamp factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Polarization |  |         |
| 4490.048        | 4.48            | 35.15                  | 41.40              | 37.23                | 35.46                   | 54             | -18.54          | Vertical     |  |         |
| 5865.832        | 5.08            | 35.48                  | 41.04              | 36.71                | 36.23                   | 54             | -17.77          | Vertical     |  |         |
| 7470.558        | 6.08            | 35.99                  | 39.64              | 38.17                | 40.60                   | 54             | -13.40          | Vertical     |  |         |
| 9346.262        | 6.06            | 37.01                  | 38.03              | 35.34                | 40.38                   | 54             | -13.62          | Vertical     |  |         |
| 11027.980       | 6.23            | 38.49                  | 37.88              | 34.94                | 41.78                   | 54             | -12.22          | Vertical     |  |         |
| 11963.890       | 6.46            | 38.87                  | 38.26              | 35.84                | 42.91                   | 54             | -11.09          | Vertical     |  |         |
| 4547.561        | 4.53            | 35.12                  | 41.44              | 38.88                | 37.09                   | 54             | -16.91          | Horizontal   |  |         |
| 5732.974        | 5.03            | 35.26                  | 41.15              | 37.13                | 36.27                   | 54             | -17.73          | Horizontal   |  |         |
| 7547.013        | 6.17            | 36.00                  | 39.57              | 37.83                | 40.43                   | 54             | -13.57          | Horizontal   |  |         |
| 9465.979        | 6.02            | 37.16                  | 37.91              | 34.39                | 39.66                   | 54             | -14.34          | Horizontal   |  |         |
| 11027.980       | 6.23            | 38.49                  | 37.88              | 34.25                | 41.09                   | 54             | -12.91          | Horizontal   |  |         |
| 12055.600       | 6.48            | 38.95                  | 38.30              | 35.56                | 42.69                   | 54             | -11.31          | Horizontal   |  |         |

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| Test mode:      |                 | 802.11g               |                    | Test channel:     |                | 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) | Polarization |  |      |
| 4871.103        | 4.72            | 34.59                 | 41.68              | 50.33             | 47.96          | 74                  | -26.04          | Vertical     |  |      |
| 7319.964        | 5.92            | 35.93                 | 39.77              | 55.29             | 57.37          | 74                  | -16.63          | Vertical     |  |      |
| 8022.456        | 6.20            | 36.01                 | 39.16              | 49.30             | 52.35          | 74                  | -21.65          | Vertical     |  |      |
| 9935.053        | 5.98            | 37.65                 | 37.52              | 46.86             | 52.97          | 74                  | -21.03          | Vertical     |  |      |
| 11027.980       | 6.23            | 38.49                 | 37.88              | 46.99             | 53.83          | 74                  | -20.17          | Vertical     |  |      |
| 12055.600       | 6.48            | 38.95                 | 38.30              | 47.94             | 55.07          | 74                  | -18.93          | Vertical     |  |      |
| 4871.103        | 4.72            | 34.59                 | 41.68              | 51.98             | 49.61          | 74                  | -24.39          | Horizontal   |  |      |
| 5910.798        | 5.09            | 35.56                 | 41.01              | 50.30             | 49.94          | 74                  | -24.06          | Horizontal   |  |      |
| 7319.964        | 5.92            | 35.93                 | 39.77              | 58.87             | 60.95          | 74                  | -13.05          | Horizontal   |  |      |
| 9562.854        | 6.00            | 37.27                 | 37.83              | 47.20             | 52.64          | 74                  | -21.36          | Horizontal   |  |      |
| 11341.140       | 6.30            | 38.43                 | 38.00              | 47.24             | 53.97          | 74                  | -20.03          | Horizontal   |  |      |
| 12334.980       | 6.55            | 39.24                 | 38.42              | 48.43             | 55.80          | 74                  | -18.20          | Horizontal   |  |      |

| Test mode:      |                 | 802.11g                |                    | Test channel:        |                         | Middle         |                 | Remark:      |  | Average |
|-----------------|-----------------|------------------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|---------|
| Frequency (MHz) | Cable loss (dB) | Antenna factors (dB/m) | Preamp factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Polarization |  |         |
| 4871.103        | 4.72            | 34.59                  | 41.68              | 37.91                | 35.54                   | 54             | -18.46          | Vertical     |  |         |
| 7319.964        | 5.92            | 35.93                  | 39.77              | 40.31                | 42.39                   | 54             | -11.61          | Vertical     |  |         |
| 8022.456        | 6.20            | 36.01                  | 39.16              | 37.51                | 40.56                   | 54             | -13.44          | Vertical     |  |         |
| 9935.053        | 5.98            | 37.65                  | 37.52              | 34.99                | 41.10                   | 54             | -12.90          | Vertical     |  |         |
| 11027.980       | 6.23            | 38.49                  | 37.88              | 35.54                | 42.38                   | 54             | -11.62          | Vertical     |  |         |
| 12055.600       | 6.48            | 38.95                  | 38.30              | 36.53                | 43.66                   | 54             | -10.34          | Vertical     |  |         |
| 4871.103        | 4.72            | 34.59                  | 41.68              | 37.66                | 35.29                   | 54             | -18.71          | Horizontal   |  |         |
| 5910.798        | 5.09            | 35.56                  | 41.01              | 36.78                | 36.42                   | 54             | -17.58          | Horizontal   |  |         |
| 7319.964        | 5.92            | 35.93                  | 39.77              | 41.11                | 43.19                   | 54             | -10.81          | Horizontal   |  |         |
| 9562.854        | 6.00            | 37.27                  | 37.83              | 34.06                | 39.50                   | 54             | -14.50          | Horizontal   |  |         |
| 11341.140       | 6.30            | 38.43                  | 38.00              | 33.85                | 40.58                   | 54             | -13.42          | Horizontal   |  |         |
| 12334.980       | 6.55            | 39.24                  | 38.42              | 34.92                | 42.29                   | 54             | -11.71          | Horizontal   |  |         |

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| Test mode:      |                 | 802.11g               |                    | Test channel:     |                | 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 |  |      |
| 4920.955        | 4.74            | 34.51                 | 41.71              | 52.34             | 49.88          | 74                  | -24.12          | Vertical     |  |      |
| 6283.164        | 5.20            | 36.04                 | 40.68              | 49.90             | 50.46          | 74                  | -23.54          | Vertical     |  |      |
| 7394.878        | 6.00            | 35.96                 | 39.71              | 60.09             | 62.34          | 74                  | -11.66          | Vertical     |  |      |
| 9370.083        | 6.05            | 37.03                 | 37.99              | 47.30             | 52.39          | 74                  | -21.61          | Vertical     |  |      |
| 10453.950       | 6.09            | 38.24                 | 37.64              | 47.24             | 53.93          | 74                  | -20.07          | Vertical     |  |      |
| 11486.410       | 6.34            | 38.40                 | 38.06              | 48.96             | 55.64          | 74                  | -18.36          | Vertical     |  |      |
| 4920.955        | 4.74            | 34.51                 | 41.71              | 51.25             | 48.79          | 74                  | -25.21          | Horizontal   |  |      |
| 6494.564        | 5.26            | 36.28                 | 40.50              | 50.13             | 51.17          | 74                  | -22.83          | Horizontal   |  |      |
| 7394.878        | 6.00            | 35.96                 | 39.71              | 58.38             | 60.63          | 74                  | -13.37          | Horizontal   |  |      |
| 9157.857        | 6.11            | 36.79                 | 38.19              | 47.63             | 52.34          | 74                  | -21.66          | Horizontal   |  |      |
| 10453.950       | 6.09            | 38.24                 | 37.64              | 46.89             | 53.58          | 74                  | -20.42          | Horizontal   |  |      |
| 11963.890       | 6.46            | 38.87                 | 38.26              | 47.35             | 54.42          | 74                  | -19.58          | Horizontal   |  |      |

| Test mode:      |                 | 802.11g                |                    | Test channel:        |                         | Highest        |                 | Remark:      |  | Average |
|-----------------|-----------------|------------------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|---------|
| Frequency (MHz) | Cable loss (dB) | Antenna factors (dB/m) | Preamp factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Polarization |  |         |
| 4920.955        | 4.74            | 34.51                  | 41.71              | 39.48                | 37.02                   | 54             | -16.98          | Vertical     |  |         |
| 6283.164        | 5.20            | 36.04                  | 40.68              | 36.75                | 37.31                   | 54             | -16.69          | Vertical     |  |         |
| 7394.878        | 6.00            | 35.96                  | 39.71              | 42.43                | 44.68                   | 54             | -9.32           | Vertical     |  |         |
| 9370.083        | 6.05            | 37.03                  | 37.99              | 34.27                | 39.36                   | 54             | -14.64          | Vertical     |  |         |
| 10453.950       | 6.09            | 38.24                  | 37.64              | 33.80                | 40.49                   | 54             | -13.51          | Vertical     |  |         |
| 11486.410       | 6.34            | 38.40                  | 38.06              | 34.32                | 41.00                   | 54             | -13.00          | Vertical     |  |         |
| 4920.955        | 4.74            | 34.51                  | 41.71              | 38.01                | 35.55                   | 54             | -18.45          | Horizontal   |  |         |
| 6494.564        | 5.26            | 36.28                  | 40.50              | 36.84                | 37.88                   | 54             | -16.12          | Horizontal   |  |         |
| 7394.878        | 6.00            | 35.96                  | 39.71              | 42.45                | 44.70                   | 54             | -9.30           | Horizontal   |  |         |
| 9157.857        | 6.11            | 36.79                  | 38.19              | 33.98                | 38.69                   | 54             | -15.31          | Horizontal   |  |         |
| 10453.950       | 6.09            | 38.24                  | 37.64              | 33.86                | 40.55                   | 54             | -13.45          | Horizontal   |  |         |
| 11963.890       | 6.46            | 38.87                  | 38.26              | 34.89                | 41.96                   | 54             | -12.04          | Horizontal   |  |         |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Pre-amplifier Factor}$$

2) 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.

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### 5.9 Band Edge (Radiated Emission)

|                   |  |                    |                  |
|-------------------|--|--------------------|------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205        |                    |                  |
| Test Method:      | ANSI C63.10 2009 and KDB558074 D01               |                    |                  |
| Test Site:        | Measurement Distance: 3m (Semi-Anechoic Chamber) |                    |                  |
| Limit:            | Frequency  | Limit (dBuV/m @3m) | Remark           |
|                   | 30MHz-88MHz                                      | 40.0               | Quasi-peak Value |
|                   | 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    |
|                   |  | 74.0               | Peak Value       |

Test Setup:

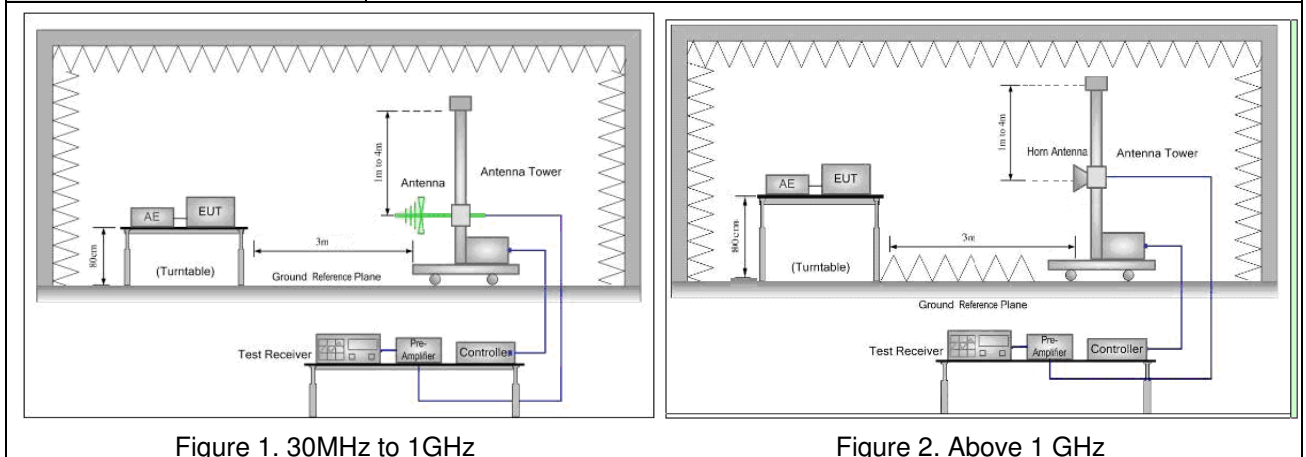


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

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|                               |   |
|-------------------------------|---|
| <p>Test Procedure:</p>        | <ol style="list-style-type: none"> <li>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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</li> <li>g. Test the EUT in the lowest channel , the Highest channel</li> <li>h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.</li> <li>i. Repeat above procedures until all frequencies measured was complete.</li> </ol> |
| <p>Exploratory Test Mode:</p> | <p>Transmitting mode</p>  |
| <p>Final Test Mode:</p>       | <p>Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g.</p>   |
| <p>Instruments Used:</p>      | <p>Refer to section 4.10 for details</p>  |
| <p>Test Results:</p>          | <p>Pass</p>   |

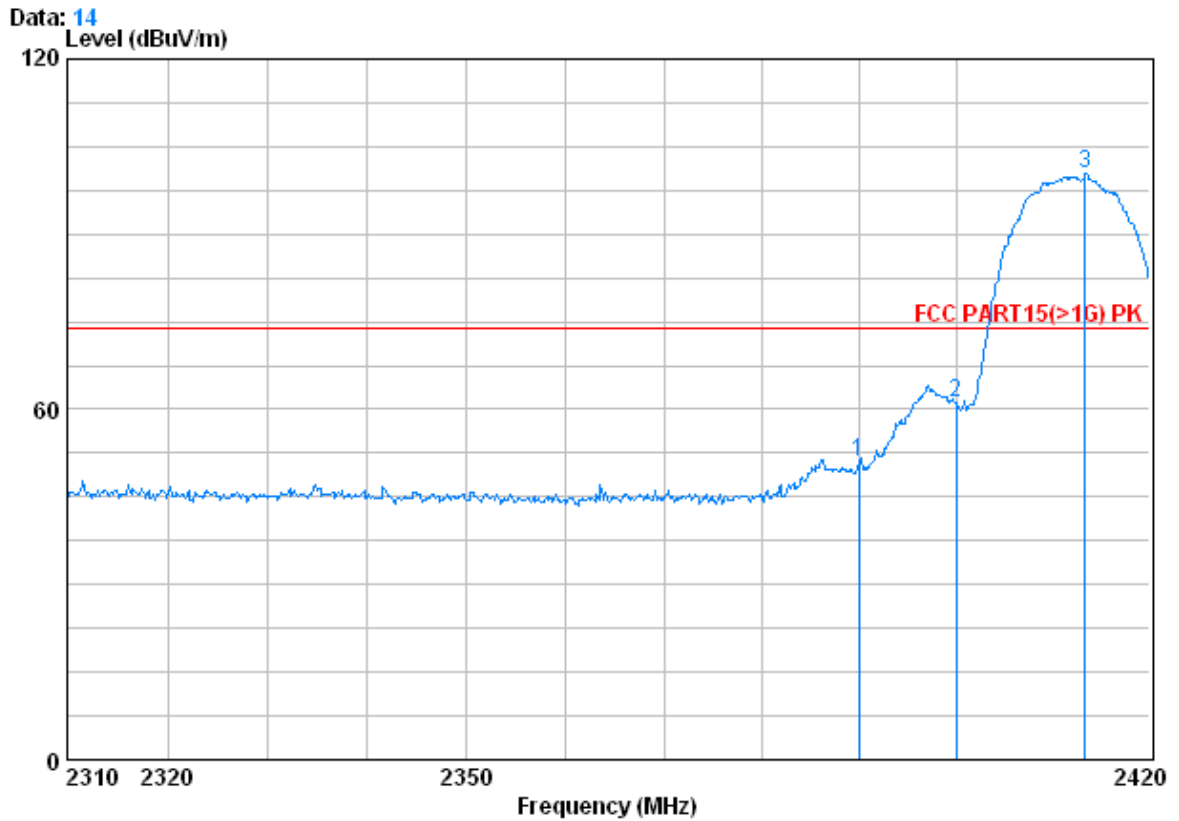
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Test plot as follows:

|            |         |               |        |         |      |
|------------|---------|---------------|--------|---------|------|
| Test mode: | 802.11b | Test channel: | Lowest | Remark: | Peak |
|------------|---------|---------------|--------|---------|------|

Vertical:



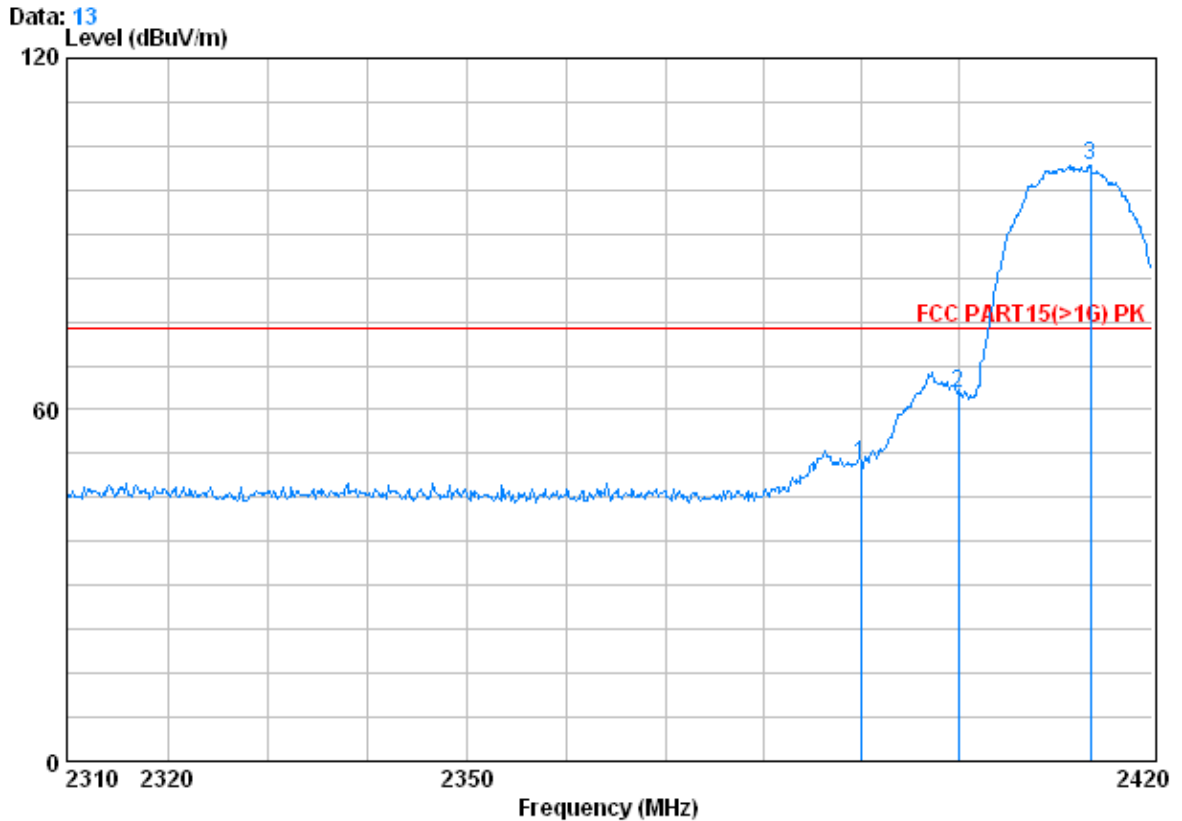
Condition : FCC PART15(>1G) PK 3m VERTICAL  
 Job No. : 4245RF  
 Mode : b 2412 Bandedge PK

|     | Freq     | Cable Loss | Antenna Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark      |
|-----|----------|------------|----------------|---------------|------------|-------------|------------|-------------|
|     | MHz      | dB         | dB/m           | dB            | dBuV       | dBuV/m      | dBuV/m     | dB          |
| 1   | 2390.000 | 2.98       | 32.51          | 39.85         | 55.46      | 51.11       | 74.00      | -22.89 Peak |
| 2   | 2400.000 | 2.98       | 32.51          | 39.86         | 65.41      | 61.04       | 74.00      | -12.96 Peak |
| 3 X | 2413.290 | 2.99       | 32.54          | 39.86         | 104.67     | 100.34      | 74.00      | 26.34 Peak  |

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Horizontal:



Condition : FCC PART15(>1G) PK 3m HORIZONTAL  
Job No. : 4245RF  
Mode : b 2412 Bandedge PK

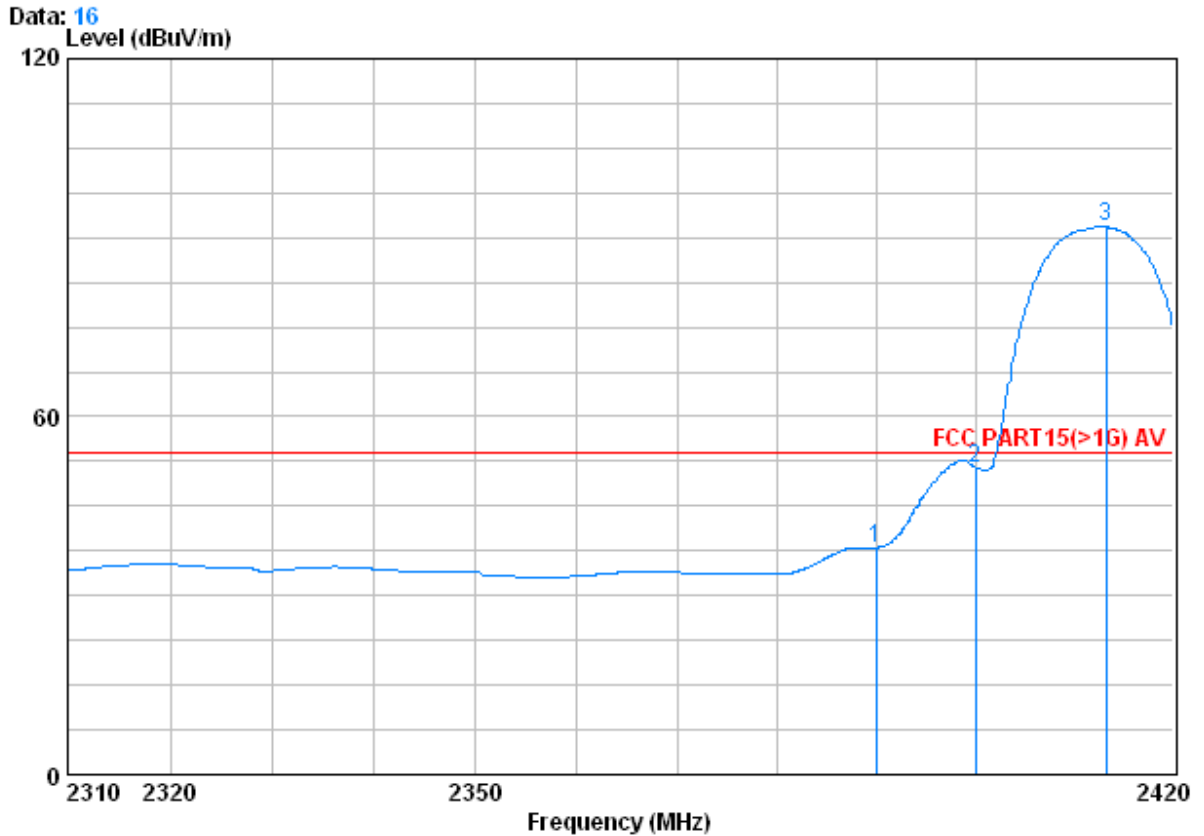
|     | Freq     | Cable Loss | Antenna Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark      |
|-----|----------|------------|----------------|---------------|------------|-------------|------------|-------------|
|     | MHz      | dB         | dB/m           | dB            | dBuV       | dBuV/m      | dBuV/m     | dB          |
| 1   | 2390.000 | 2.98       | 32.51          | 39.85         | 55.01      | 50.65       | 74.00      | -23.35 Peak |
| 2   | 2400.000 | 2.98       | 32.51          | 39.86         | 67.01      | 62.64       | 74.00      | -11.36 Peak |
| 3 X | 2413.620 | 2.99       | 32.54          | 39.86         | 106.16     | 101.83      | 74.00      | 27.83 Peak  |

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|            |         |               |        |         |         |
|------------|---------|---------------|--------|---------|---------|
| Test mode: | 802.11b | Test channel: | Lowest | Remark: | average |
|------------|---------|---------------|--------|---------|---------|

Vertical:



Condition : FCC PART15(>1G) AV 3m VERTICAL  
 Job No. : 4245RF  
 Mode : b 2412 Bandedge AV

|     | Freq     | CableAntenna Loss | Antenna Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|-----|----------|-------------------|----------------|---------------|------------|--------|------------|------------|---------|
|     | MHz      | dB                | dB/m           | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1   | 2390.000 | 2.98              | 32.51          | 39.85         | 42.41      | 38.06  | 54.00      | -15.94     | Average |
| 2   | 2400.000 | 2.98              | 32.51          | 39.86         | 55.76      | 51.39  | 54.00      | -2.61      | Average |
| 3 @ | 2413.180 | 2.99              | 32.54          | 39.86         | 96.11      | 91.78  | 54.00      | 37.78      | Average |

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Horizontal:



Condition : FCC PART15(>1G) AV 3m HORIZONTAL  
 Job No. : 4245RF  
 Mode : b 2412 Bandedge AV

|     | Freq     | Cable Loss | Antenna Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark         |
|-----|----------|------------|----------------|---------------|------------|-------------|------------|----------------|
|     | MHz      | dB         | dB/m           | dB            | dBuV       | dBuV/m      | dB         |                |
| 1   | 2390.000 | 2.98       | 32.51          | 39.85         | 45.59      | 41.23       | 54.00      | -12.77 Average |
| 2 X | 2400.000 | 2.98       | 32.51          | 39.86         | 58.78      | 54.41       | 54.00      | 0.41 Average   |
| 3 @ | 2413.180 | 2.99       | 32.54          | 39.86         | 97.45      | 93.12       | 54.00      | 39.12 Average  |

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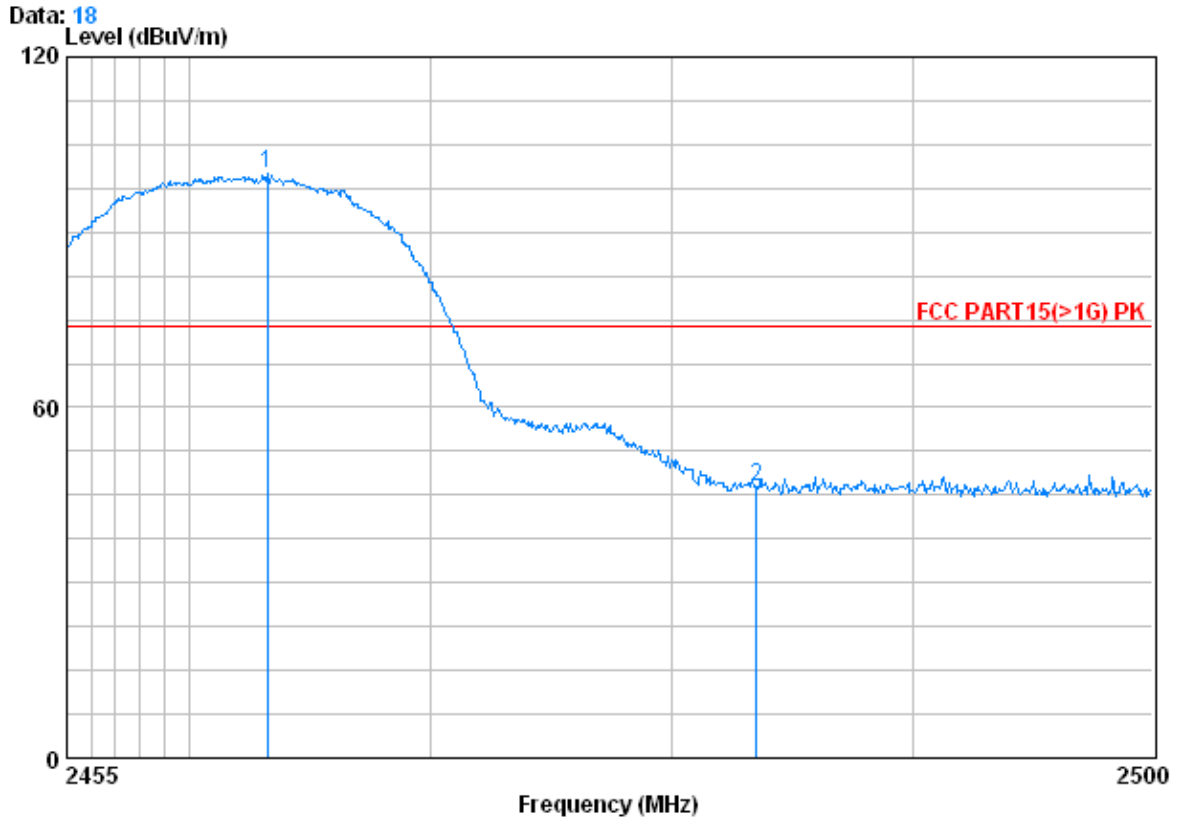
# SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120700424501

Page: 55 of 66

|            |         |               |         |         |      |
|------------|---------|---------------|---------|---------|------|
| Test mode: | 802.11b | Test channel: | Highest | Remark: | Peak |
|------------|---------|---------------|---------|---------|------|

Vertical:



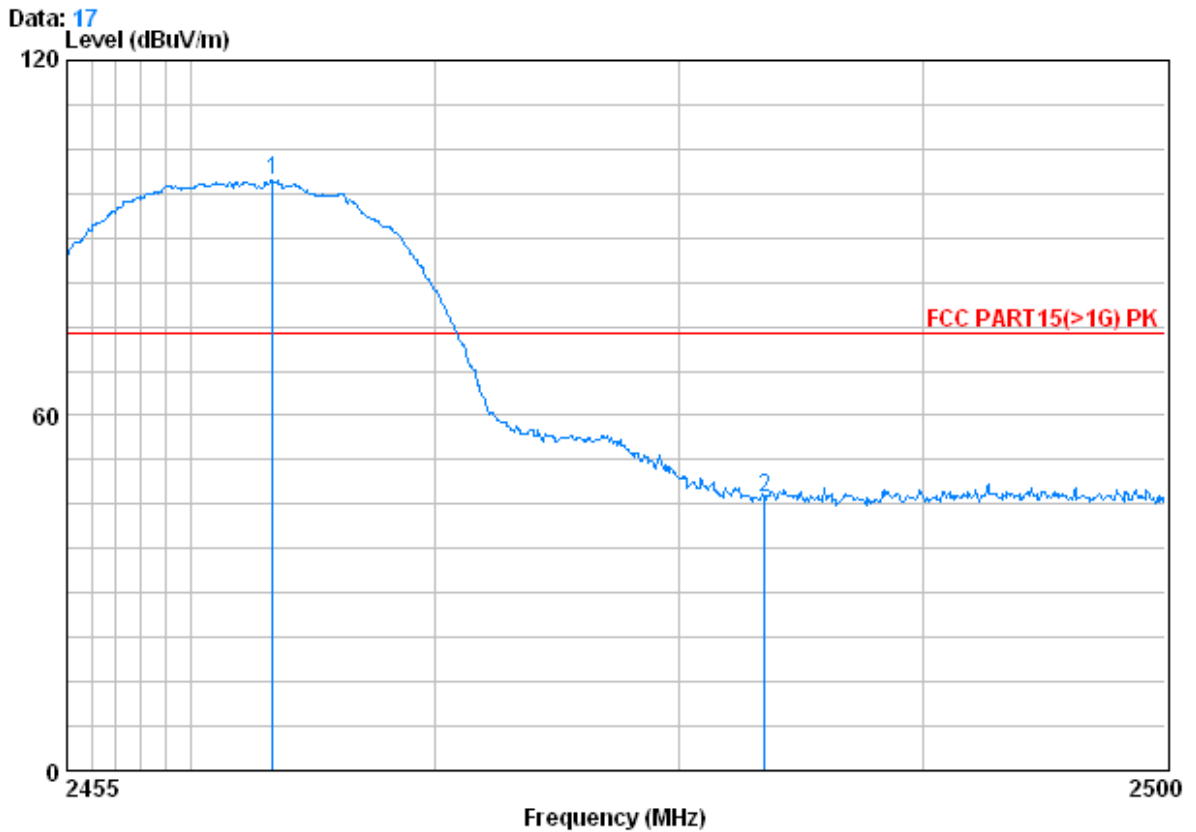
Condition : FCC PART15(>1G) PK 3m VERTICAL  
 Job No. : 4245RF  
 Mode : b 2462 Bandedge PK

|     |          | Cable | Antenna | Preamp | Read   |        | Limit  | Over   |        |
|-----|----------|-------|---------|--------|--------|--------|--------|--------|--------|
|     | Freq     | Loss  | Factor  | Factor | Level  | Level  | Line   | Limit  | Remark |
|     | MHz      | dB    | dB/m    | dB     | dBuV   | dBuV/m | dBuV/m | dB     |        |
| 1 X | 2463.235 | 3.02  | 32.64   | 39.91  | 104.36 | 100.11 | 74.00  | 26.11  | Peak   |
| 2   | 2483.500 | 3.03  | 32.67   | 39.92  | 50.55  | 46.33  | 74.00  | -27.67 | Peak   |

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Horizontal:



Condition : FCC PART15(>1G) PK 3m HORIZONTAL  
 Job No. : 4245RF  
 Mode : b 2462 Bandedge PK

|   |      | CableAntenna | Preamp | Read  | Limit | Over   |        |        |             |
|---|------|--------------|--------|-------|-------|--------|--------|--------|-------------|
|   | Freq | Loss         | Factor | Level | Level | Line   | Limit  | Remark |             |
|   | MHz  | dB           | dB/m   | dB    | dBuV  | dBuV/m | dBuV/m | dB     |             |
| 1 | X    | 2463.370     | 3.02   | 32.64 | 39.91 | 104.09 | 99.85  | 74.00  | 25.85 Peak  |
| 2 |      | 2483.500     | 3.03   | 32.67 | 39.92 | 50.40  | 46.18  | 74.00  | -27.82 Peak |

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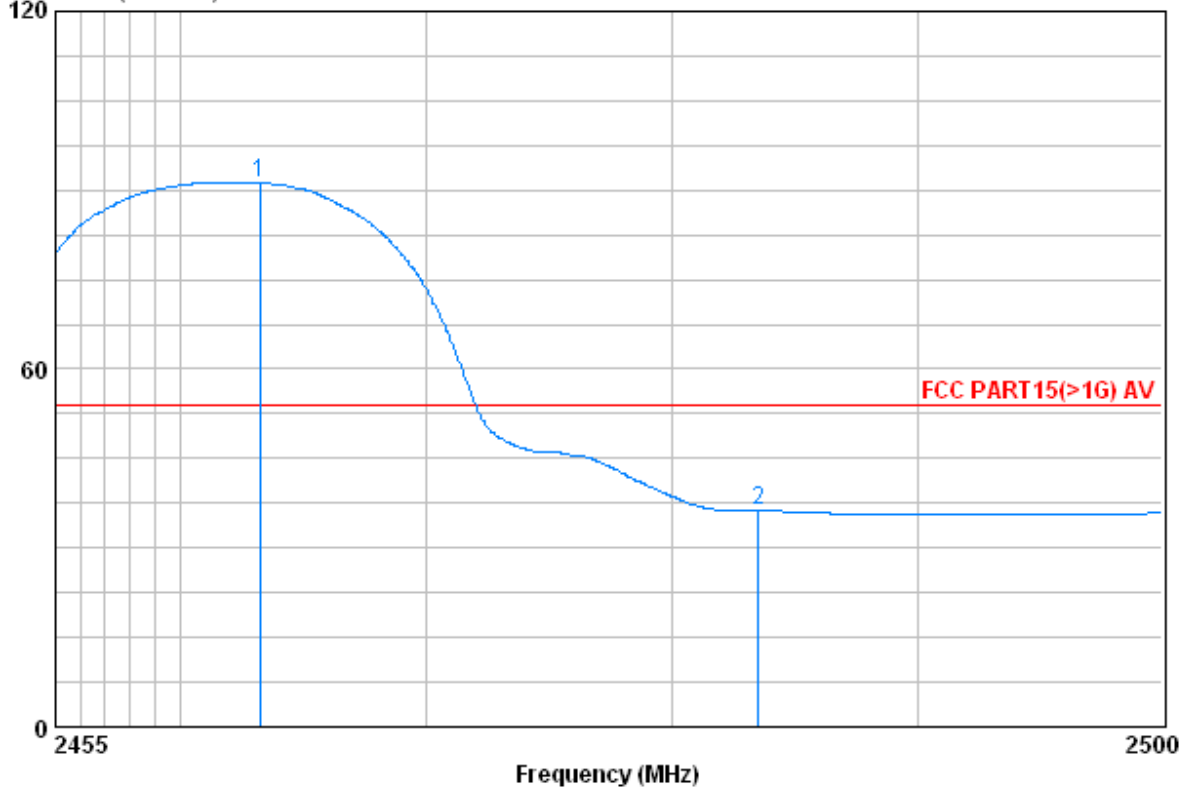


|            |         |               |         |         |         |
|------------|---------|---------------|---------|---------|---------|
| Test mode: | 802.11b | Test channel: | Highest | Remark: | average |
|------------|---------|---------------|---------|---------|---------|

Vertical:

Data: 20

Level (dBuV/m)



Condition : FCC PART15(>1G) AV 3m VERTICAL  
 Job No. : 4245RF  
 Mode : b 2462 Bandedge AV

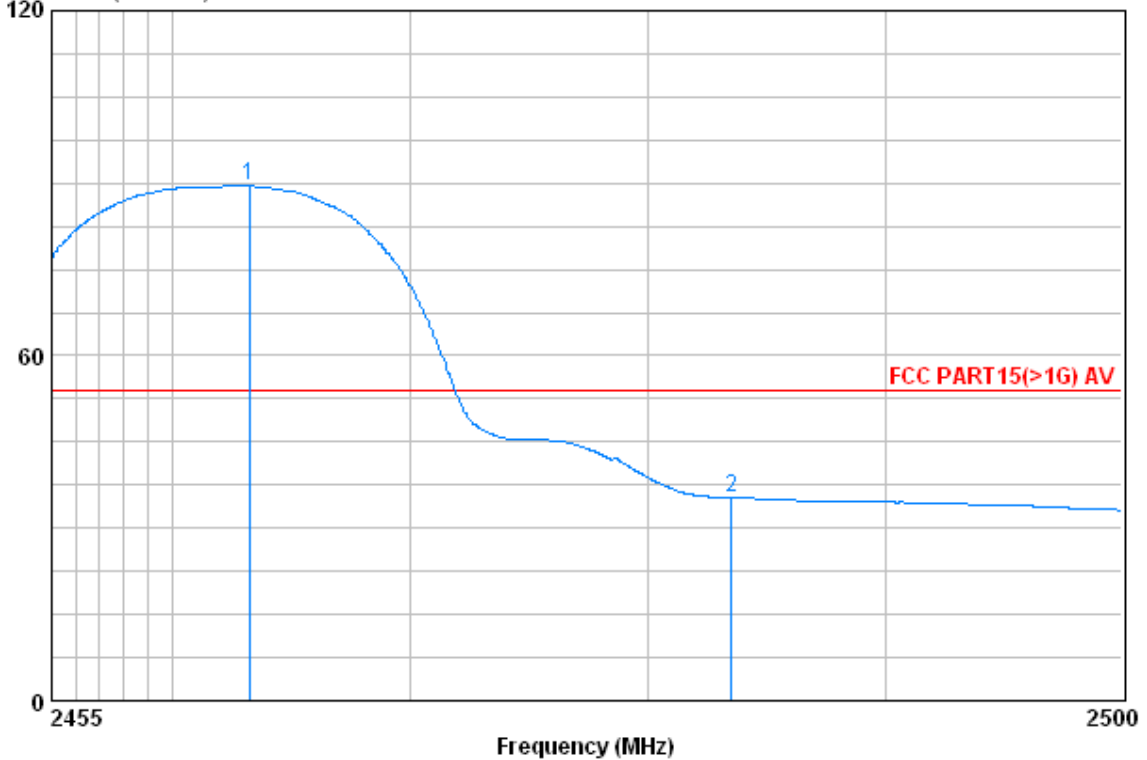
|   | Freq     | CableAntenna Loss | Antenna Factor | Preamp Factor | Read Level | Limit Line | Over Limit | Remark  |
|---|----------|-------------------|----------------|---------------|------------|------------|------------|---------|
|   | MHz      | dB                | dB/m           | dB            | dBuV       | dBuV/m     | dB         |         |
| 1 | 2463.235 | 3.02              | 32.64          | 39.91         | 95.56      | 54.00      | 37.32      | Average |
| 2 | 2483.500 | 3.03              | 32.67          | 39.92         | 40.39      | 54.00      | -17.83     | Average |

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Horizontal:

Data: 19

Level (dBuV/m)



Condition : FCC PART15(>1G) AV 3m HORIZONTAL  
 Job No. : 4245RF  
 Mode : b 2462 Bandedge AV

|   | Freq     | CableAntenna Loss | Antenna Factor | Preamplifier | Read Level | Level  | Limit  | Over   | Remark  |
|---|----------|-------------------|----------------|--------------|------------|--------|--------|--------|---------|
|   | MHz      | dB                | dB/m           | dB           | dBuV       | dBuV/m | dBuV/m | dB     |         |
| 1 | 2463.235 | 3.02              | 32.64          | 39.91        | 93.76      | 89.51  | 54.00  | 35.51  | Average |
| 2 | 2483.500 | 3.03              | 32.67          | 39.92        | 39.52      | 35.30  | 54.00  | -18.70 | Average |



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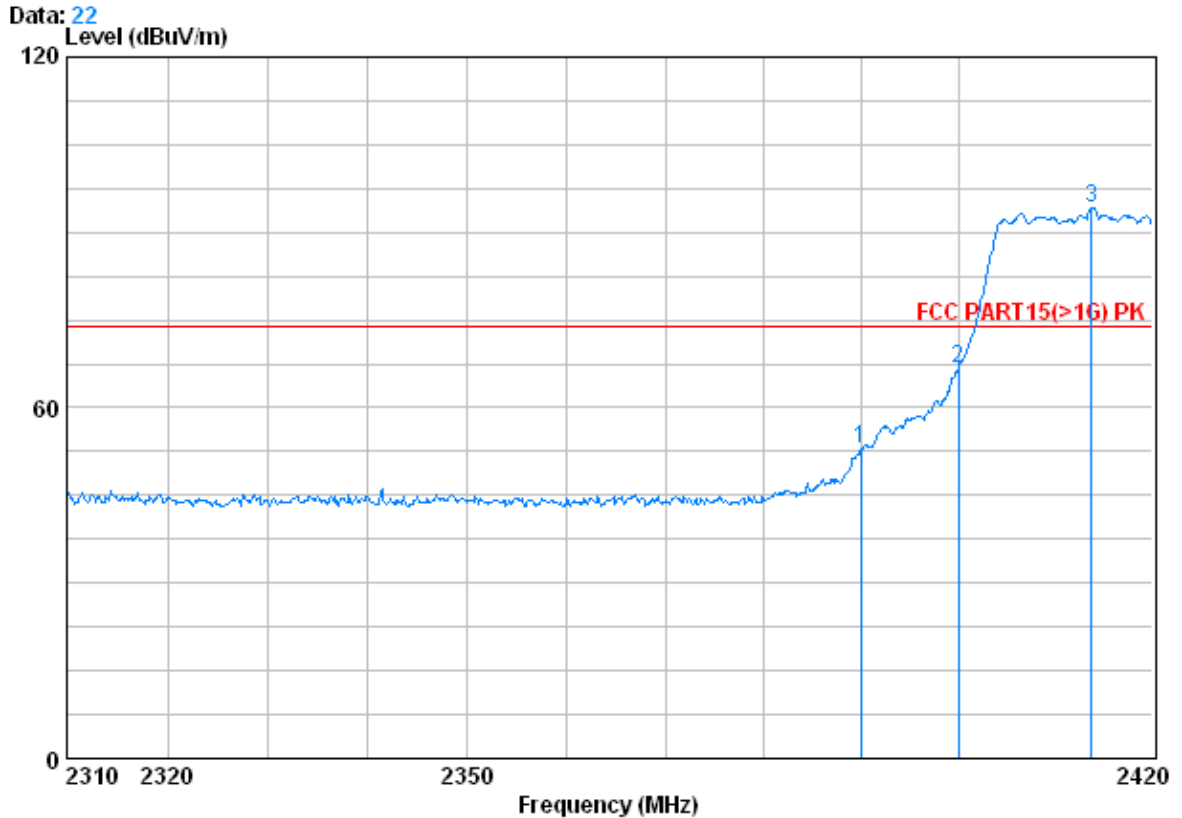
# SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120700424501

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

Vertical:



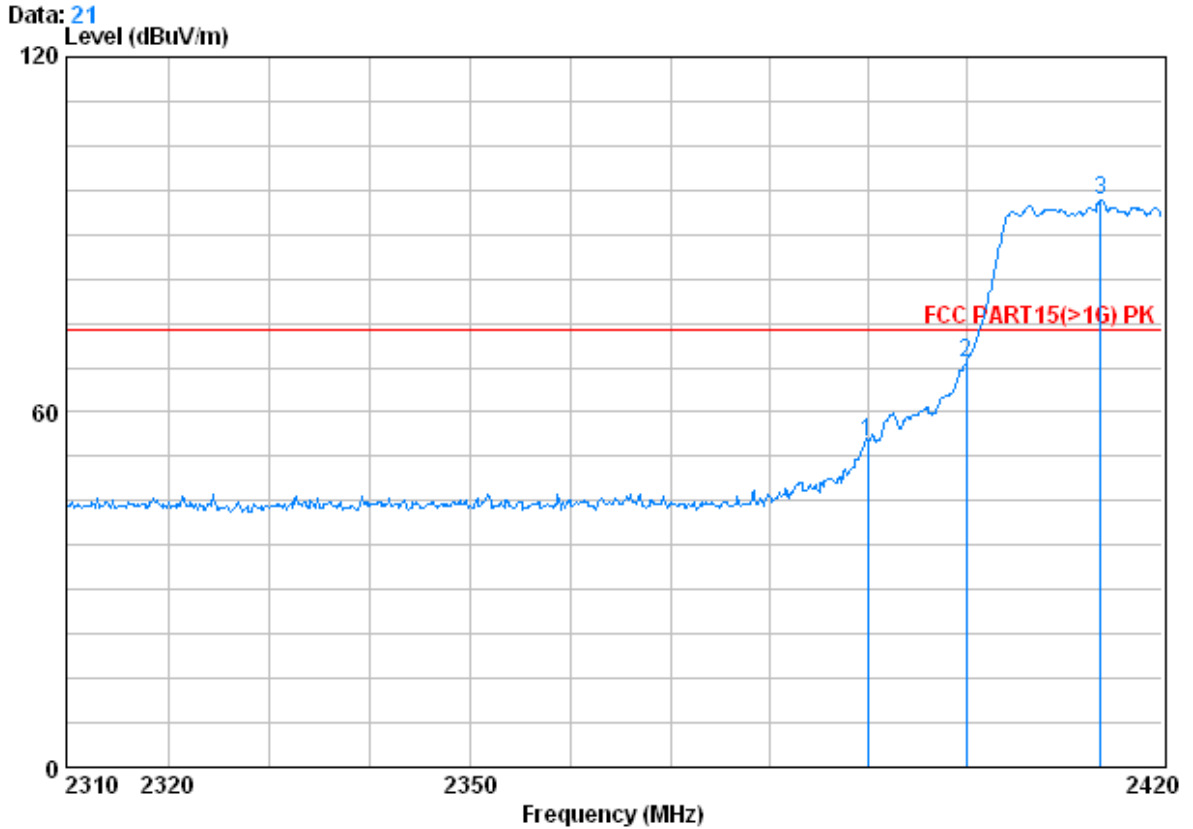
Condition : FCC PART15(>1G) PK 3m VERTICAL  
Job No. : 4245RF  
Mode : g 2412 Bandedge PK

|     | Freq     | Cable Loss | Antenna Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|-----|----------|------------|----------------|---------------|------------|-------------|------------|------------|--------|
|     | MHz      | dB         | dB/m           | dB            | dBuV       | dBuV/m      | dBuV/m     | dB         |        |
| 1   | 2390.000 | 2.98       | 32.51          | 39.85         | 57.41      | 53.06       | 74.00      | -20.94     | Peak   |
| 2   | 2400.000 | 2.98       | 32.51          | 39.86         | 70.98      | 66.61       | 74.00      | -7.39      | Peak   |
| 3 X | 2413.730 | 2.99       | 32.54          | 39.86         | 98.58      | 94.25       | 74.00      | 20.25      | Peak   |

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Horizontal:



Condition : FCC PART15(>1G) PK 3m HORIZONTAL  
Job No. : 4245RF  
Mode : g 2412 Bandedge PK

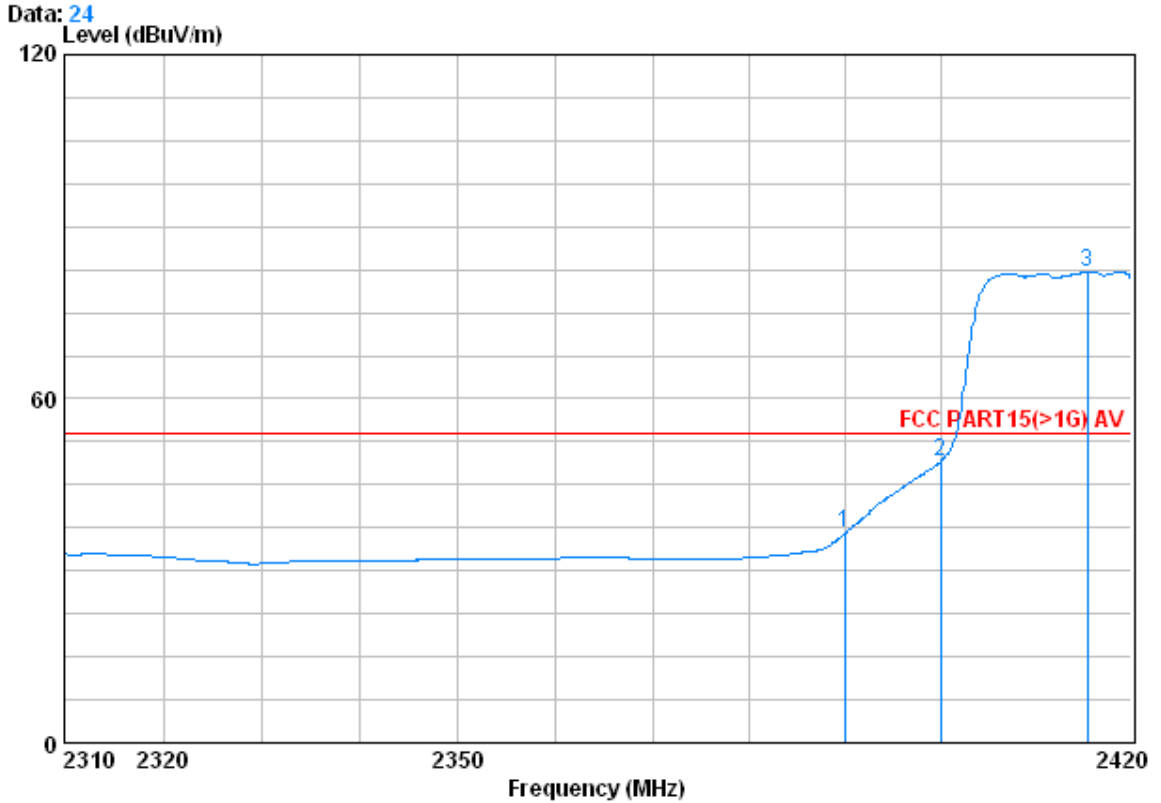
|     | Freq     | CableAntenna Loss | Antenna Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|-----|----------|-------------------|----------------|---------------|------------|--------|------------|------------|--------|
|     | MHz      | dB                | dB/m           | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1   | 2390.000 | 2.98              | 32.51          | 39.85         | 59.37      | 55.02  | 74.00      | -18.98     | Peak   |
| 2   | 2400.000 | 2.98              | 32.51          | 39.86         | 72.65      | 68.28  | 74.00      | -5.72      | Peak   |
| 3 X | 2413.730 | 2.99              | 32.54          | 39.86         | 100.18     | 95.85  | 74.00      | 21.85      | Peak   |

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

Vertical:



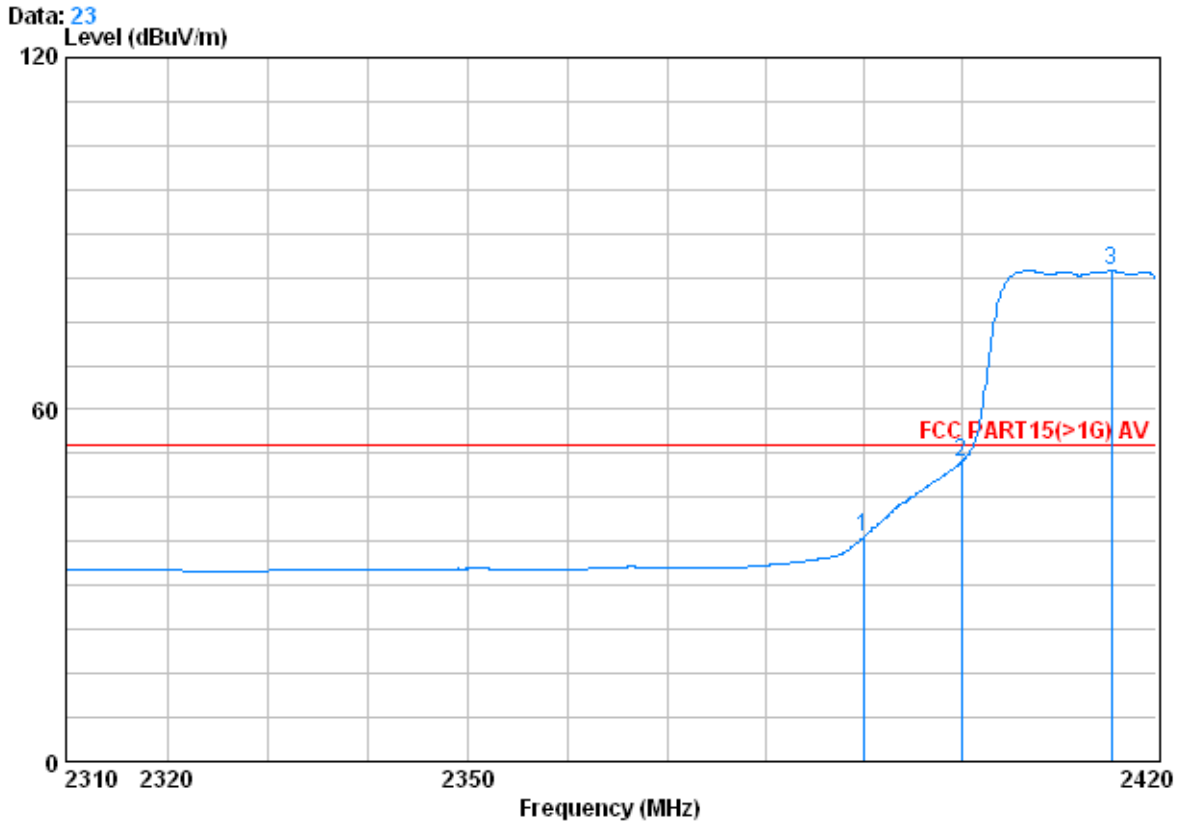
Condition : FCC PART15(>1G) AV 3m VERTICAL  
 Job No. : 4245RF  
 Mode : g 2412 Bandedge AV

|     | Freq     | Cable Loss | Antenna Factor | Preamp Factor | Read Level | Limit Line | Over Limit | Remark  |
|-----|----------|------------|----------------|---------------|------------|------------|------------|---------|
|     | MHz      | dB         | dB/m           | dB            | dBuV       | dBuV/m     | dB         |         |
| 1   | 2390.000 | 2.98       | 32.51          | 39.85         | 40.87      | 54.00      | -17.48     | Average |
| 2   | 2400.000 | 2.98       | 32.51          | 39.86         | 53.33      | 54.00      | -5.04      | Average |
| 3 X | 2415.380 | 2.99       | 32.54          | 39.86         | 86.46      | 54.00      | 28.13      | Average |

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Horizontal:



Condition : FCC PART15(>1G) AV 3m HORIZONTAL  
 Job No. : 4245RF  
 Mode : g 2412 Bandedge AV

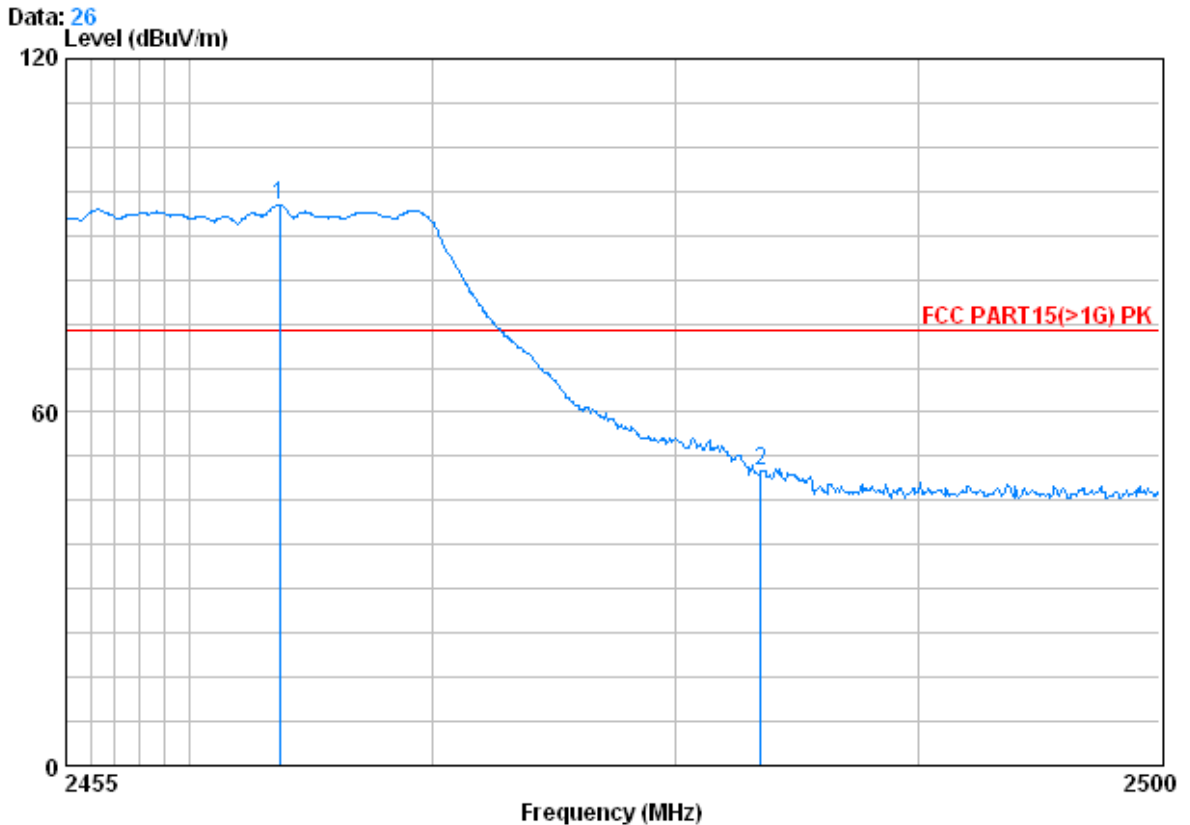
|   | Freq     | CableAntenna Loss | Antenna Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark  |
|---|----------|-------------------|----------------|---------------|------------|-------------|------------|------------|---------|
|   | MHz      | dB                | dB/m           | dB            | dBuV       | dBuV/m      | dBuV/m     | dB         |         |
| 1 | 2390.000 | 2.98              | 32.51          | 39.85         | 42.63      | 38.28       | 54.00      | -15.72     | Average |
| 2 | 2400.000 | 2.98              | 32.51          | 39.86         | 55.36      | 50.99       | 54.00      | -3.01      | Average |
| 3 | 2415.380 | 2.99              | 32.54          | 39.86         | 87.95      | 83.62       | 54.00      | 29.62      | Average |

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|            |         |               |         |         |      |
|------------|---------|---------------|---------|---------|------|
| Test mode: | 802.11g | Test channel: | Highest | Remark: | Peak |
|------------|---------|---------------|---------|---------|------|

Vertical:



Condition : FCC PART15(>1G) PK 3m VERTICAL  
 Job No. : 4245RF  
 Mode : g 2462 Bandedge PK

|   |      | CableAntenna | Preamp | Read  | Limit | Over   |        |        |        |      |
|---|------|--------------|--------|-------|-------|--------|--------|--------|--------|------|
|   | Freq | Loss         | Factor | Level | Level | Line   | Limit  | Remark |        |      |
|   | MHz  | dB           | dB/m   | dB    | dBuV  | dBuV/m | dBuV/m | dB     |        |      |
| 1 | X    | 2463.730     | 3.02   | 32.64 | 39.91 | 99.39  | 95.14  | 74.00  | 21.14  | Peak |
| 2 |      | 2483.500     | 3.03   | 32.67 | 39.92 | 54.18  | 49.96  | 74.00  | -24.04 | Peak |

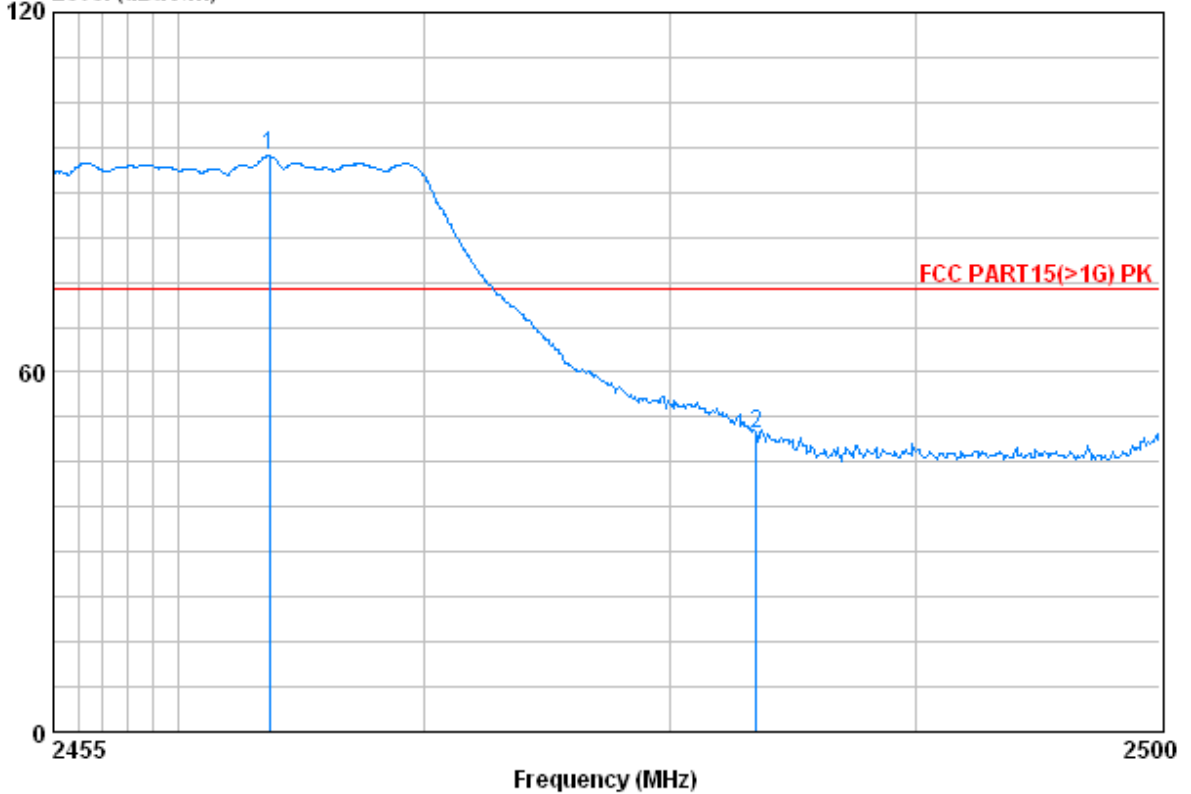
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Horizontal:

Data: 25

Level (dBuV/m)



Condition : FCC PART15(>1G) PK 3m HORIZONTAL  
 Job No. : 4245RF  
 Mode : g 2462 Bandedge PK

|     | Freq     | Cable Loss | Antenna Factor | Preamplifier | Read Level | Limit  | Over Limit | Remark      |
|-----|----------|------------|----------------|--------------|------------|--------|------------|-------------|
|     | MHz      | dB         | dB/m           | dB           | dBuV       | dBuV/m | dB         |             |
| 1 X | 2463.730 | 3.02       | 32.64          | 39.91        | 100.29     | 96.05  | 74.00      | 22.05 Peak  |
| 2   | 2483.500 | 3.03       | 32.67          | 39.92        | 53.85      | 49.63  | 74.00      | -24.37 Peak |

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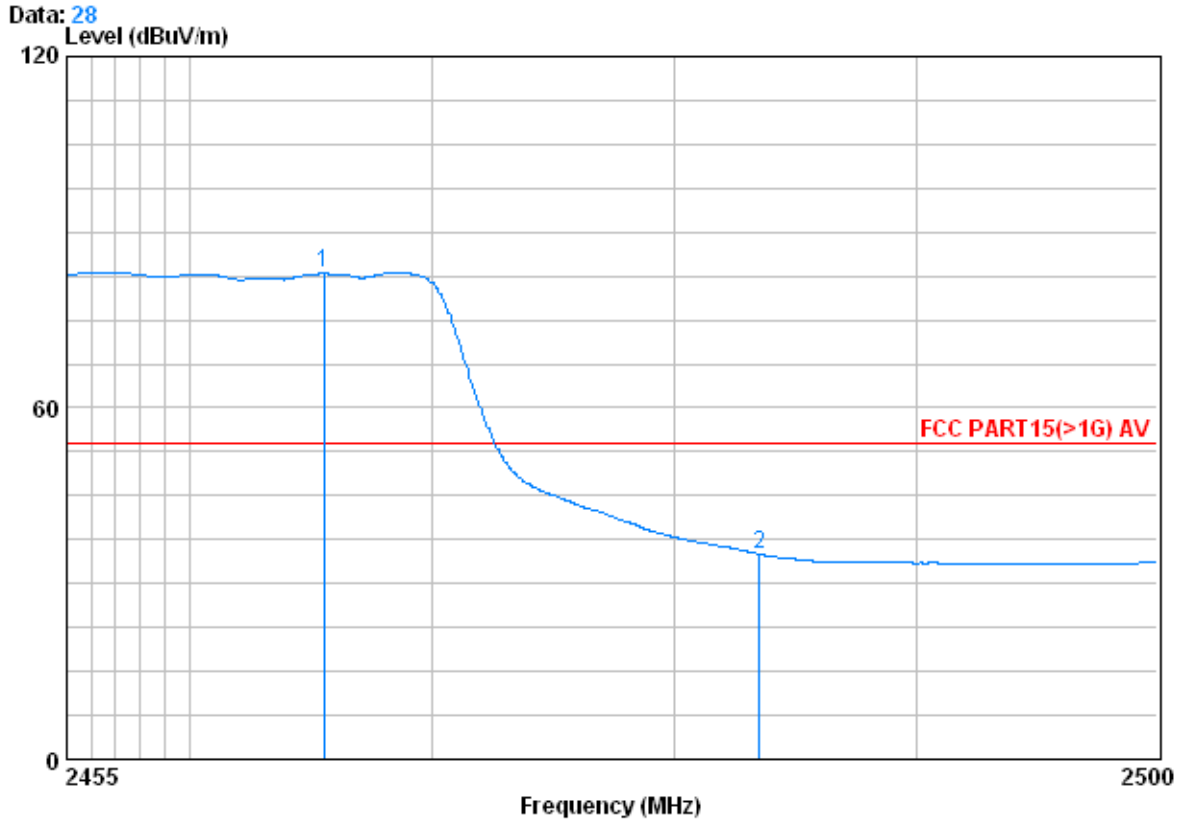
# SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120700424501

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|            |         |               |         |         |         |
|------------|---------|---------------|---------|---------|---------|
| Test mode: | 802.11g | Test channel: | Highest | Remark: | average |
|------------|---------|---------------|---------|---------|---------|

Vertical:



Condition : FCC PART15(>1G) AV 3m VERTICAL  
 Job No. : 4245RF  
 Mode : g 2462 Bandedge AV

|     | Freq     | Cable Loss | Antenna Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark  |
|-----|----------|------------|----------------|---------------|------------|-------------|------------|------------|---------|
|     | MHz      | dB         | dB/m           | dB            | dBuV       | dBuV/m      | dBuV/m     | dB         |         |
| 1 @ | 2465.530 | 3.02       | 32.64          | 39.91         | 87.16      | 82.91       | 54.00      | 28.91      | Average |
| 2   | 2483.500 | 3.03       | 32.67          | 39.92         | 39.28      | 35.06       | 54.00      | -18.94     | Average |

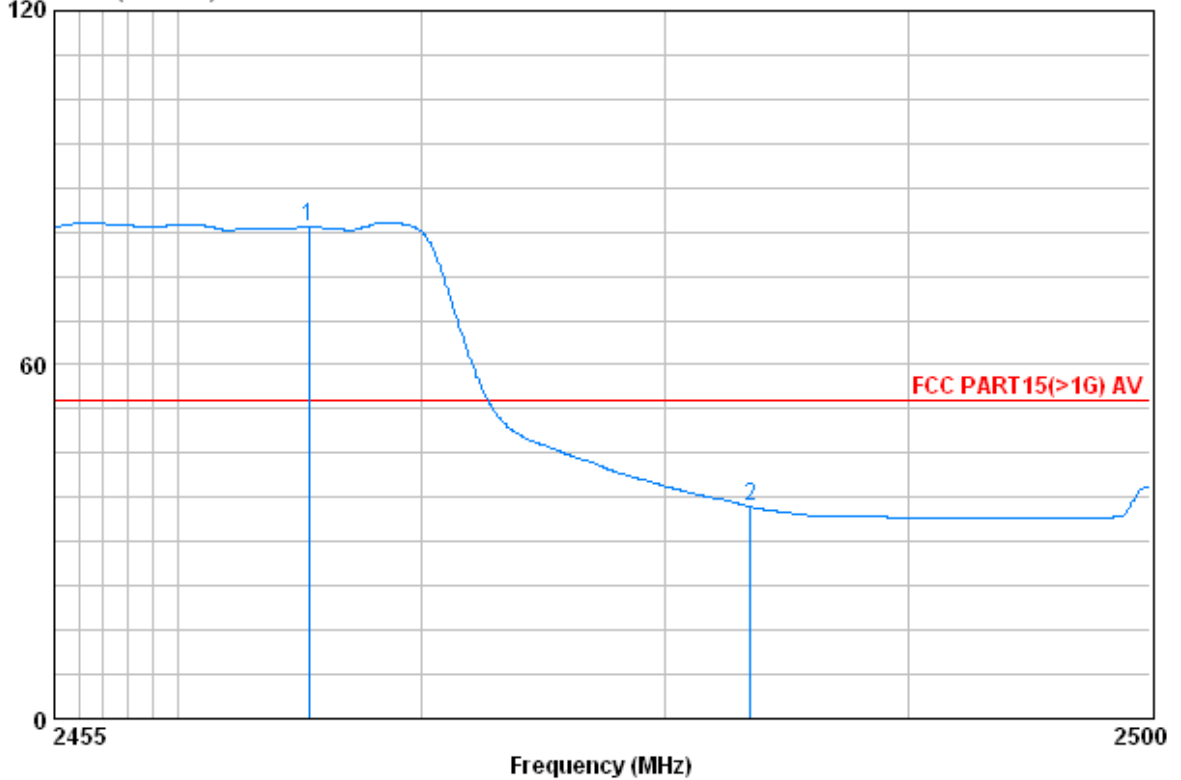
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Horizontal:

Data: 27

Level (dBuV/m)



Condition : FCC PART15(>1G) AV 3m HORIZONTAL  
 Job No. : 4245RF  
 Mode : g 2462 Bandedge AV

|   | Freq     | Cable | Antenna | Preamp | Read  | Level  | Limit  | Over   | Remark  |
|---|----------|-------|---------|--------|-------|--------|--------|--------|---------|
|   | MHz      | Loss  | Factor  | Factor | Level | dBuV/m | dBuV/m | dB     |         |
|   |          | dB    | dB/m    | dB     | dBuV  |        |        |        |         |
| 1 | 2465.395 | 3.02  | 32.64   | 39.91  | 87.56 | 83.31  | 54.00  | 29.31  | Average |
| 2 | 2483.500 | 3.03  | 32.67   | 39.92  | 40.14 | 35.92  | 54.00  | -18.08 | Average |

Note:

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

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

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