

TEST REPORT

Application No.: SHCR2307001452AT
FCC ID: 2AH25T6810
IC: 22621-T6810
Applicant: Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant: Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China
Manufacturer: Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer: Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China
Equipment Under Test (EUT):
EUT Name: Smart POS system
Model No.: T6810
HVIN: T6810, T6810H, T6810M
Trade Mark: SUNMI
Standard(s) : 47 CFR Part 15, Subpart C 15.247
RSS-247 Issue 2, February 2017
RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt: 2023-06-07
Date of Test: 2023-06-26 to 2023-07-01
Date of Issue: 2023-07-03

| | |
|---------------------|--------------|
| Test Result: | Pass* |
|---------------------|--------------|

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

Parlam Zhan

Parlam Zhan
Laboratory Manager



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EEC EMC Lab

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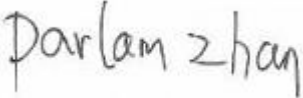
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| Revision Record | | | |
|-----------------|-----------------------------|------------|---------------------------|
| Version | Description | Date | Remark |
| 00 | Add new configuration SKU3. | 2023-07-03 | Based on KSCR221000185703 |
| | | | |
| | | | |

| | | | |
|--------------------------|--|---|--|
| Authorized for issue by: | | | |
| | |  | |
| | | Micheal Niu / Project Engineer | |
| | |  | |
| | | Parlam Zhan / Reviewer | |



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2 Test Summary

| Radio Spectrum Matter Part | | | | |
|---|--|---|------------------------------------|--------|
| Item | FCC Requirement | IC Requirement | Method | Result |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.209 & 15.247(d) | RSS-247 Section 3.3 & RSS-Gen Section 8.9 | ANSI C63.10 (2013) Section 6.10.5 | Pass |
| Radiated Spurious Emissions Below 1GHz | 47 CFR Part 15, Subpart C 15.209 & 15.247(d) | RSS-247 Section 3.3 & RSS-Gen Section 8.9 | ANSI C63.10 (2013) Section 6.4,6.5 | Pass |
| Radiated Spurious Emissions Above 1GHz | 47 CFR Part 15, Subpart C 15.209 & 15.247(d) | RSS-247 Section 3.3 & RSS-Gen Section 8.9 | ANSI C63.10 (2013) Section 6.6 | Pass |

Remark:

Compared with the original report, this report added new configuration SKU3. Compared with SKU1, SKU3 removed code scanning probe, also added one alternative screen and battery. Considering the differences, only test Radiated Emissions which fall in the restricted bands, Radiated Spurious Emissions Below 1GHz and Radiated Spurious Emissions Above 1GHz in this report, other test data please refer to original report.

Note: SKU1: T6810H, SKU2: T6810, SKU3: T6810M



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4 General Information

4.1 Details of E.U.T.

| | |
|----------------------|--|
| Power supply: | DC 5V 1A; DC 5V 2A |
| Adapter information: | Adapter 1: Model: TPA-46B050100UU Input: 100-240V~ 50/60Hz 0.2A Output: 5.0V 1.0A Adapter 2: Model: TPA-23A050200UU01 Input: 100-240V~ 50/60Hz 0.3A Output: 5.0V 2.0A Adapter 3: Model No.: UC11US PRI: 100-240V~50/60Hz 0.2A SEC: 5.0V 1.0A 5.0W |
| Battery information: | Model 1: TMPA 1ICP6/59/63 Nominal Voltage: 3.8V Limited Charge Voltage: 4.35V Rated Capacity: 2900mAh Model 2: TMPC 1ICP6/59/63 Nominal Voltage: 3.8V Limited Charge Voltage: 4.35V Rated Capacity: 2900mAh |
| Operation Frequency: | 802.11b/g/n(HT20): 2412MHz to 2462MHz |
| Modulation Type: | 802.11b: DSSS (CCK, DQPSK, DBPSK); 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Data Rate: | 802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n: MCS0~7 |
| Number of Channels: | 802.11b/g/n(HT20):11 |
| Channel Spacing: | 5MHz |
| Antenna Type: | FPC Antenna |
| Antenna Gain: | 1.7dBi (Provided by the manufacturer) |
| SN: | PC10E35P10028 |
| Firmware version: | V1.0.0 |

4.2 Power level setting using in test

| Channel | 802.11b | 802.11g | 802.11n(HT20) |
|---------|---------|---------|---------------|
| | Ant 1 | Ant 1 | Ant 1 |
| 1 | 19.5 | 16.5 | 16.5 |
| 6 | 19.5 | 16.5 | 16.5 |
| 11 | 19.5 | 16.5 | 16.5 |



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4.3 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|---|--------------|-----------|------------|
| -- | -- | -- | -- |
| The EUT has been tested as an independent unit. | | | |

4.4 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 8.4×10^{-8} |
| 2 | Timeout | 2s |
| 3 | Duty Cycle | 0.37% |
| 4 | Occupied Bandwidth | 3% |
| 5 | RF Conducted Power | 0.6dB |
| 6 | RF Power Density | 2.9dB |
| 7 | Conducted Spurious Emissions | 0.75dB |
| 8 | RF Radiated Power | 5.2dB (Below 1GHz) |
| | | 5.9dB (Above 1GHz) |
| 9 | Radiated Spurious Emission Test | 4.2dB (Below 30MHz) |
| | | 4.5dB (30MHz-1GHz) |
| | | 5.1dB (1GHz-18GHz) |
| | | 5.4dB (Above 18GHz) |
| 10 | Temperature Test | 1°C |
| 11 | Humidity Test | 3% |
| 12 | Supply Voltages | 1.5% |
| 13 | Time | 3% |

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



4.5 Test Location

All tests were performed at:

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No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

4.6 Test Facility

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

• **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

• **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|---------------------------|--------------|-------------------------------|--------------|------------|--------------|
| RF Conducted Test | | | | | |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2022-12-20 | 2023-12-19 |
| Spectrum Analyzer | Keysight | N9020B | SHEM241-1 | 2022-12-20 | 2023-12-19 |
| Spectrum Analyzer | Agilent | N9020A | SHEM181-1 | 2022-08-02 | 2023-08-01 |
| Signal Generator | R&S | SMR20 | SHEM006-1 | 2022-08-02 | 2023-08-01 |
| Signal Generator | Agilent | N5182A | SHEM182-1 | 2022-08-02 | 2023-08-01 |
| Communication Tester | R&S | CMW270 | SHEM183-1 | 2023-06-01 | 2024-05-31 |
| Communication Tester | R&S | CMW500 | SHEM268-1 | 2023-06-01 | 2024-05-31 |
| Power Sensor | Keysight | U2021XA * 4 | SHEM184-1 | 2022-08-02 | 2023-08-01 |
| Splitter | Anritsu | MA1612A | SHEM185-1 | / | / |
| Coupler | e-meca | 803-S-1 | SHEM186-1 | / | / |
| High-low Temp Cabinet | Suzhou Zhihe | TL-40 | SHEM087-1 | 2022-11-08 | 2024-11-07 |
| AC Power Stabilizer | APC | KDF-31020T-V0-F0 | SHEM216-1 | 2022-12-20 | 2023-12-19 |
| DC Power Supply | MCH | MCH-303A | SHEM210-1 | 2022-12-20 | 2023-12-19 |
| Conducted test Cable | / | RF01~RF04 | / | 2022-12-20 | 2023-12-19 |
| Switcher | Tonscend | JS0806 | SHEM184-1 | 2022-08-02 | 2023-08-01 |
| Test software | Tonscend | JS Tonscend BT/WIFI System | Version: 2.6 | / | / |
| Coaxial Cable | TST | | SHEM263-1 | 2022-08-02 | 2023-08-01 |
| Test software | TST | TST PASS | Version: 2.0 | / | / |
| RF Radiated Test | | | | | |
| EMI test Receiver | R&S | ESU40 | SHEM051-1 | 2022-12-20 | 2023-12-19 |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2022-12-20 | 2023-12-19 |
| Communication Tester | R&S | CMW500 | SHEM268-1 | 2023-06-01 | 2024-05-31 |
| Loop Antenna (9kHz-30MHz) | Schwarzbeck | FMZB1519 | SHEM135-1 | 2022-12-20 | 2023-12-19 |
| Antenna (25MHz-2GHz) | Schwarzbeck | VULB9168 | SHEM048-1 | 2021-09-11 | 2023-09-10 |
| Antenna (25MHz-2GHz) | Schwarzbeck | VULB9168 | SHEM202-1 | 2022-05-07 | 2024-05-06 |
| Horn Antenna (1-18GHz) | Schwarzbeck | HF906 | SHEM009-1 | 2022-08-11 | 2024-08-10 |
| Horn Antenna (1-18GHz) | Schwarzbeck | BBHA9120D | SHEM050-1 | 2021-09-18 | 2023-09-17 |
| Horn Antenna (14-40GHz) | Schwarzbeck | BBHA 9170 | SHEM049-1 | 2021-09-18 | 2023-09-17 |
| Pre-Amplifier | HP | 8447D | SHEM236-1 | 2022-08-02 | 2023-08-01 |
| High-amplifier (14-40GHz) | Schwarzbeck | 10001 | SHEM049-2 | 2022-12-20 | 2023-12-19 |
| Band Filter | LORCH | 9BRX-875/X150 | SHEM156-1 | / | / |
| Band Filter | LORCH | 13BRX-1950/X500 | SHEM083-2 | / | / |
| Band Filter | LORCH | 5BRX-2400/X200 | SHEM155-1 | / | / |
| Band Filter | LORCH | 5BRX-5500/X1000 | SHEM157-2 | / | / |
| High pass Filter | Wainwright | WHK3.0/18G | SHEM157-1 | / | / |
| High pass Filter | Wainwright | WHKS1700 | SHEM157-3 | / | / |
| Semi/Fully Anechoic | ST | 11*6*6M | SHEM078-2 | 2021-05-25 | 2024-05-24 |
| RE test Cable | / | RE01, RE02, RE06 | / | 2023-01-07 | 2024-01-06 |
| Test software | FARAD | EZ EMC | 1.1.4.2 | / | / |



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6 Radio Spectrum Matter Test Results

6.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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

Limit:

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

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

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 04 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |



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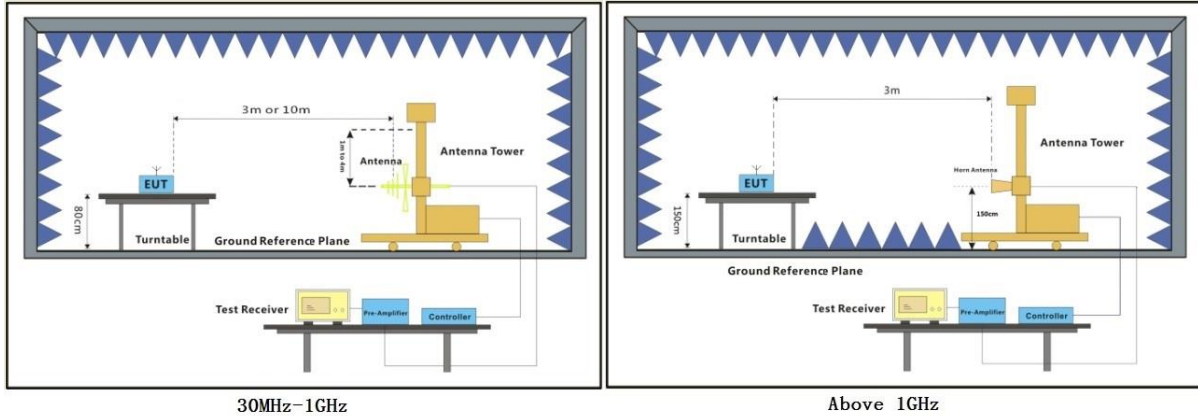
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6.1.3 Test Setup Diagram



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6.1.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

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

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

Remark 3: We have evaluated different adapters and battery modes. The battery mode is the worst, and only the battery mode is tested finally.



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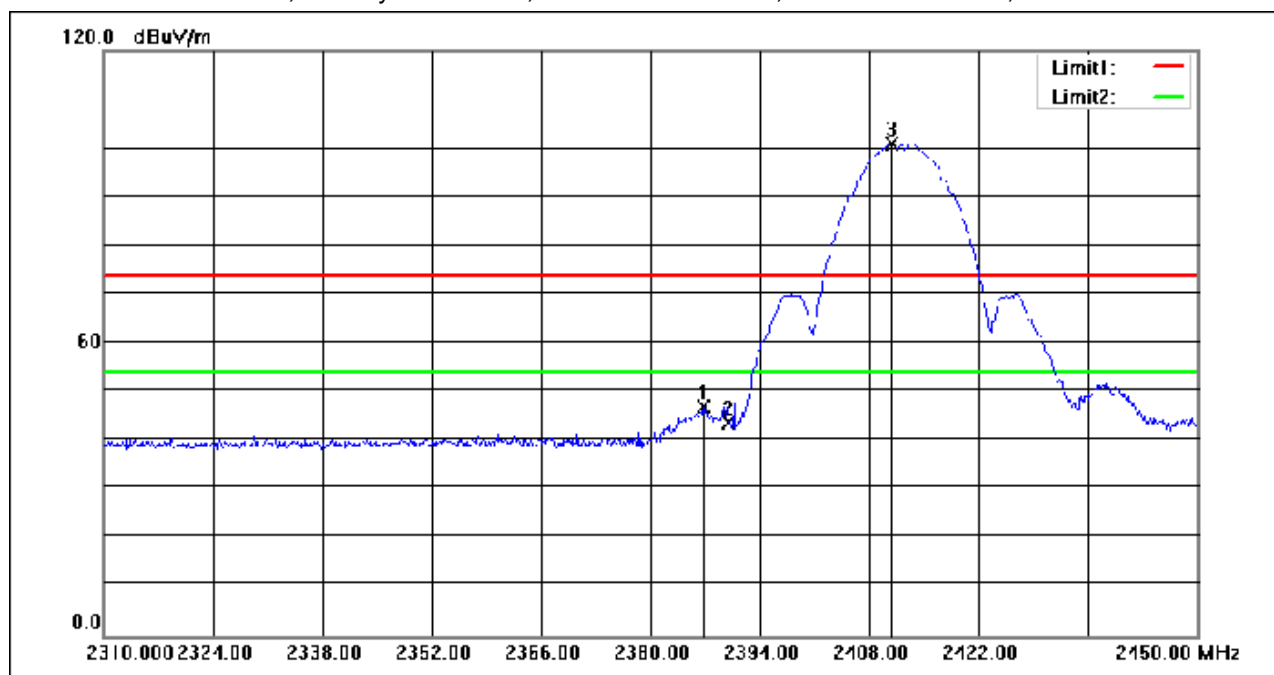
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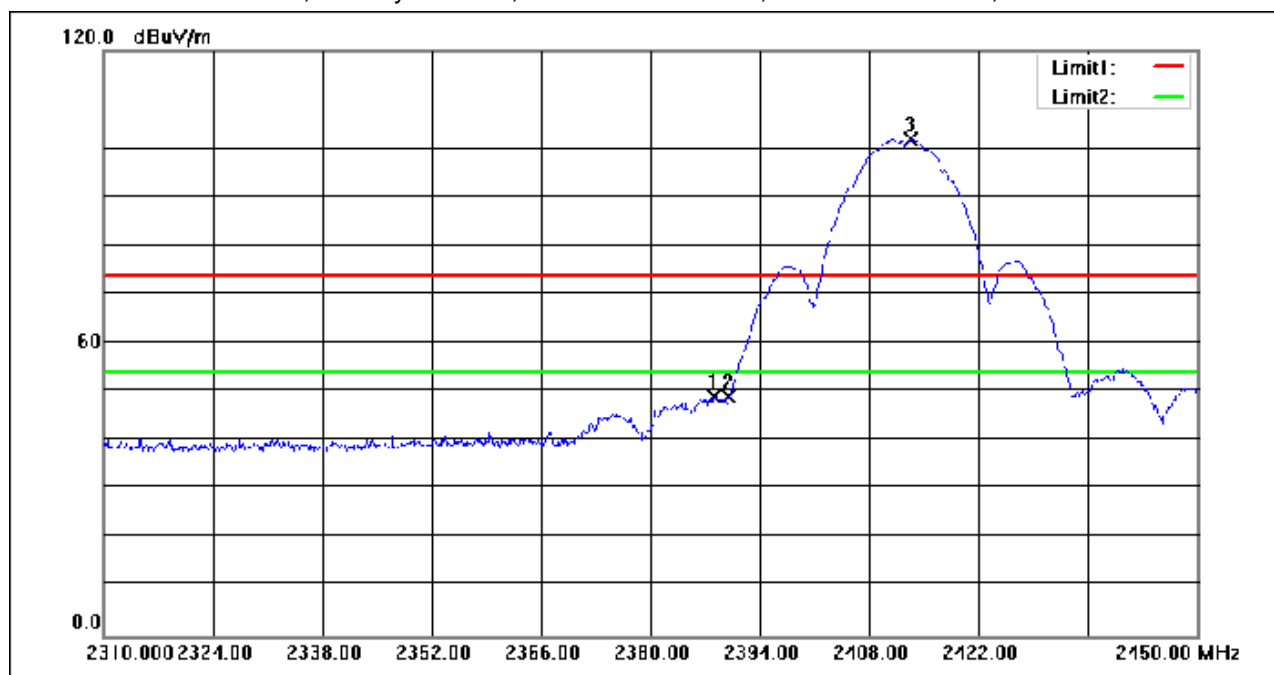
Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2386.720 | 66.83 | -19.81 | 47.02 | 74.00 | -26.98 | peak |
| 2 | 2390.000 | 63.57 | -19.79 | 43.78 | 74.00 | -30.22 | peak |
| 3 | 2410.940 | 120.60 | -19.58 | 101.02 | 74.00 | 27.02 | peak |



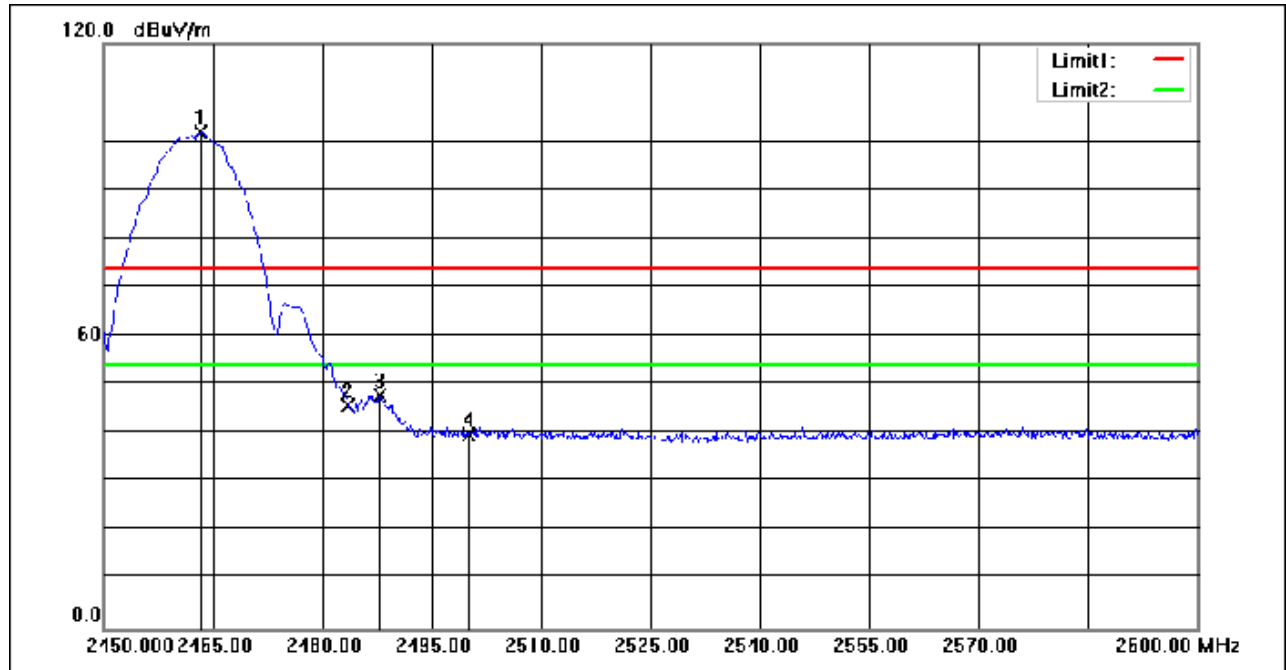
Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2388.120 | 68.92 | -19.79 | 49.13 | 74.00 | -24.87 | peak |
| 2 | 2390.000 | 68.77 | -19.79 | 48.98 | 74.00 | -25.02 | peak |
| 3 | 2413.320 | 121.41 | -19.54 | 101.87 | 74.00 | 27.87 | peak |



Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2463.350 | 120.95 | -19.15 | 101.80 | 74.00 | 27.80 | peak |
| 2 | 2483.500 | 65.22 | -19.33 | 45.89 | 74.00 | -28.11 | peak |
| 3 | 2487.950 | 67.32 | -19.38 | 47.94 | 74.00 | -26.06 | peak |
| 4 | 2500.000 | 59.23 | -19.49 | 39.74 | 74.00 | -34.26 | peak |



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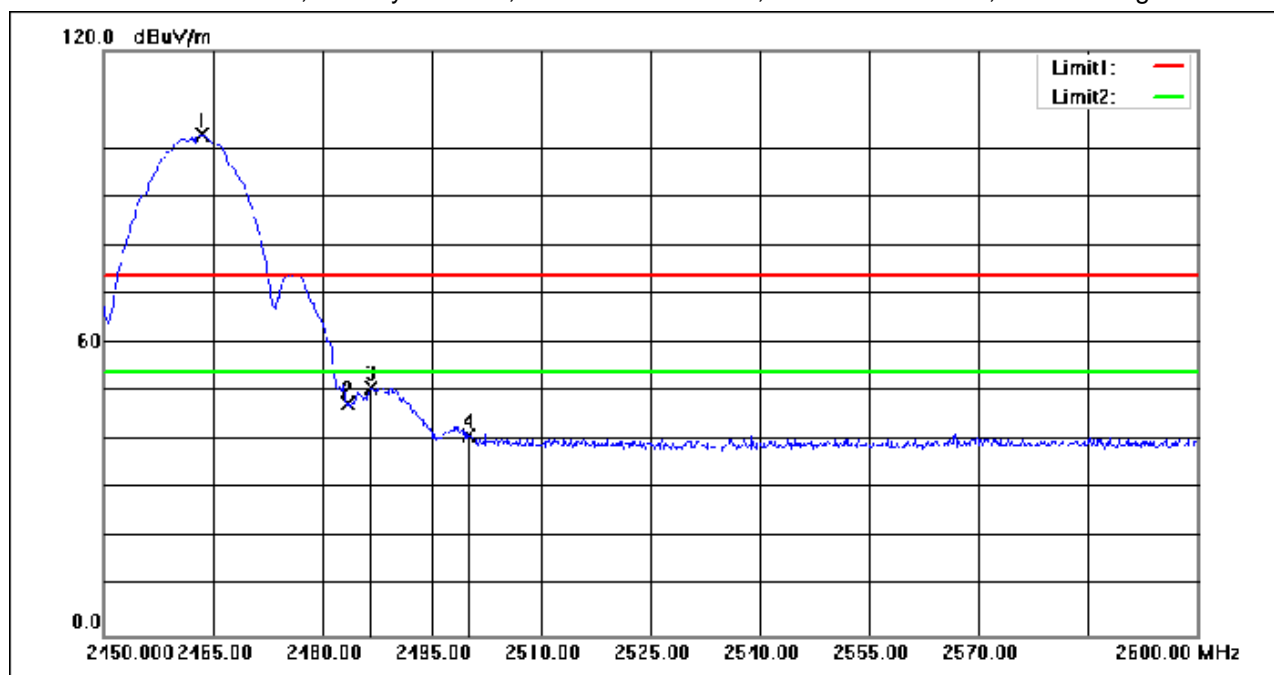
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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2463.500 | 121.91 | -19.15 | 102.76 | 74.00 | 28.76 | peak |
| 2 | 2483.500 | 66.85 | -19.33 | 47.52 | 74.00 | -26.48 | peak |
| 3 | 2486.750 | 70.37 | -19.37 | 51.00 | 74.00 | -23.00 | peak |
| 4 | 2500.000 | 60.40 | -19.49 | 40.91 | 74.00 | -33.09 | peak |



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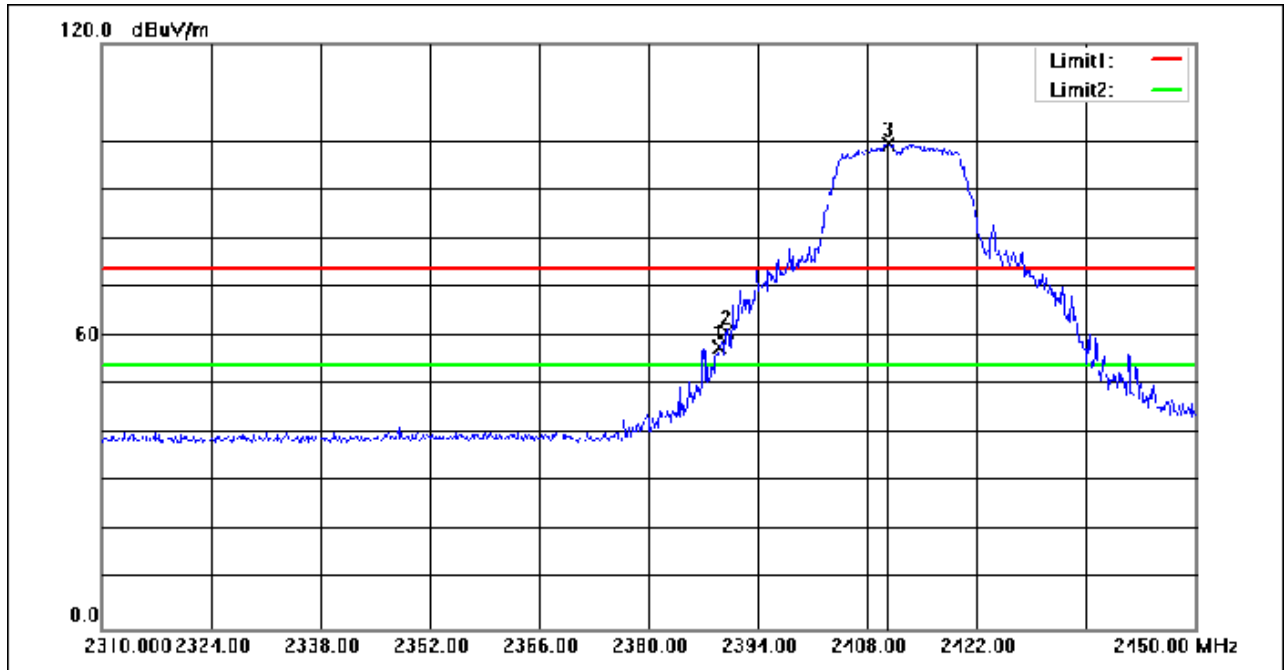
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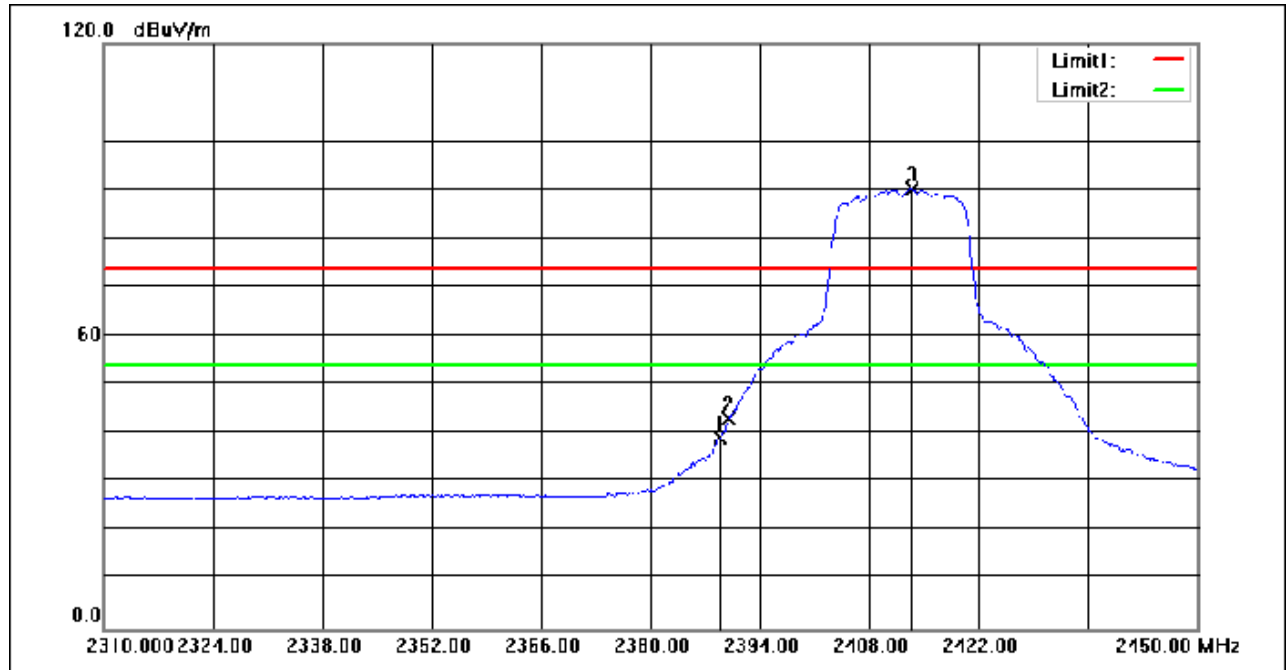
Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2388.960 | 77.47 | -19.79 | 57.68 | 74.00 | -16.32 | peak |
| 2 | 2390.000 | 80.45 | -19.79 | 60.66 | 74.00 | -13.34 | peak |
| 3 | 2410.660 | 118.94 | -19.58 | 99.36 | 74.00 | 25.36 | peak |



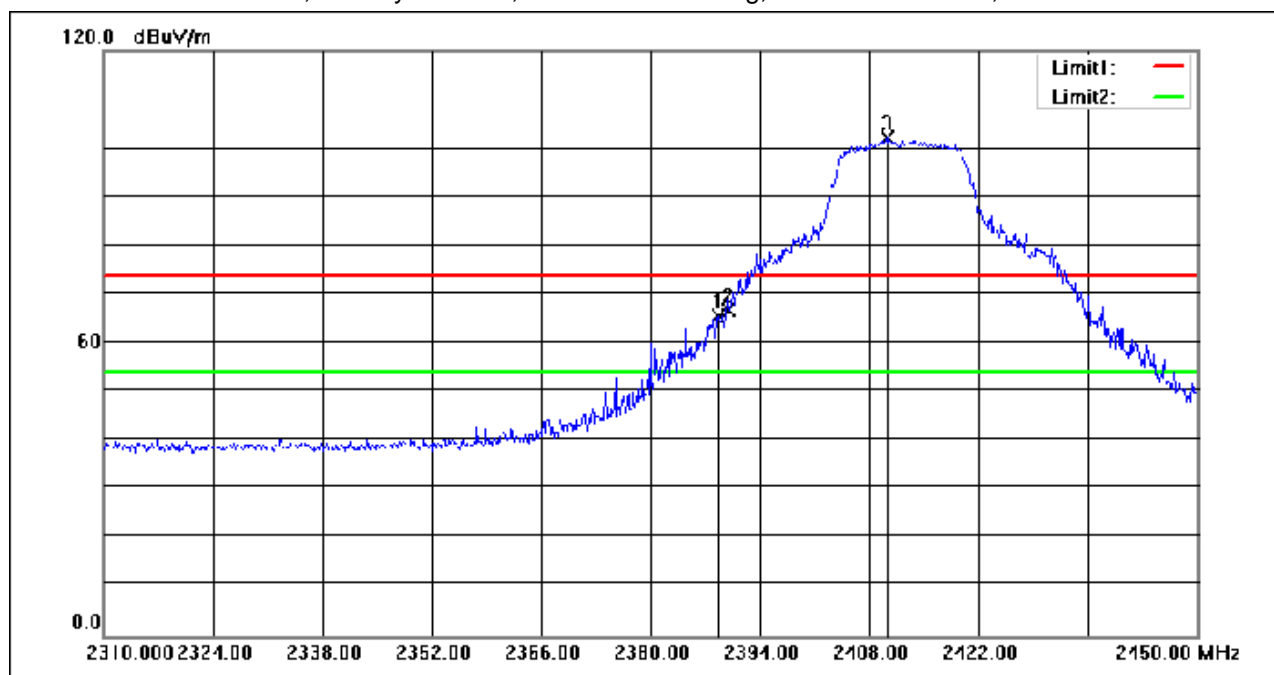
Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2388.820 | 58.90 | -19.79 | 39.11 | 54.00 | -14.89 | AVG |
| 2 | 2390.000 | 62.71 | -19.79 | 42.92 | 54.00 | -11.08 | AVG |
| 3 | 2413.460 | 109.70 | -19.54 | 90.16 | 54.00 | 36.16 | AVG |



Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2388.680 | 85.20 | -19.79 | 65.41 | 74.00 | -8.59 | peak |
| 2 | 2390.000 | 86.67 | -19.79 | 66.88 | 74.00 | -7.12 | peak |
| 3 | 2410.240 | 121.75 | -19.59 | 102.16 | 74.00 | 28.16 | peak |



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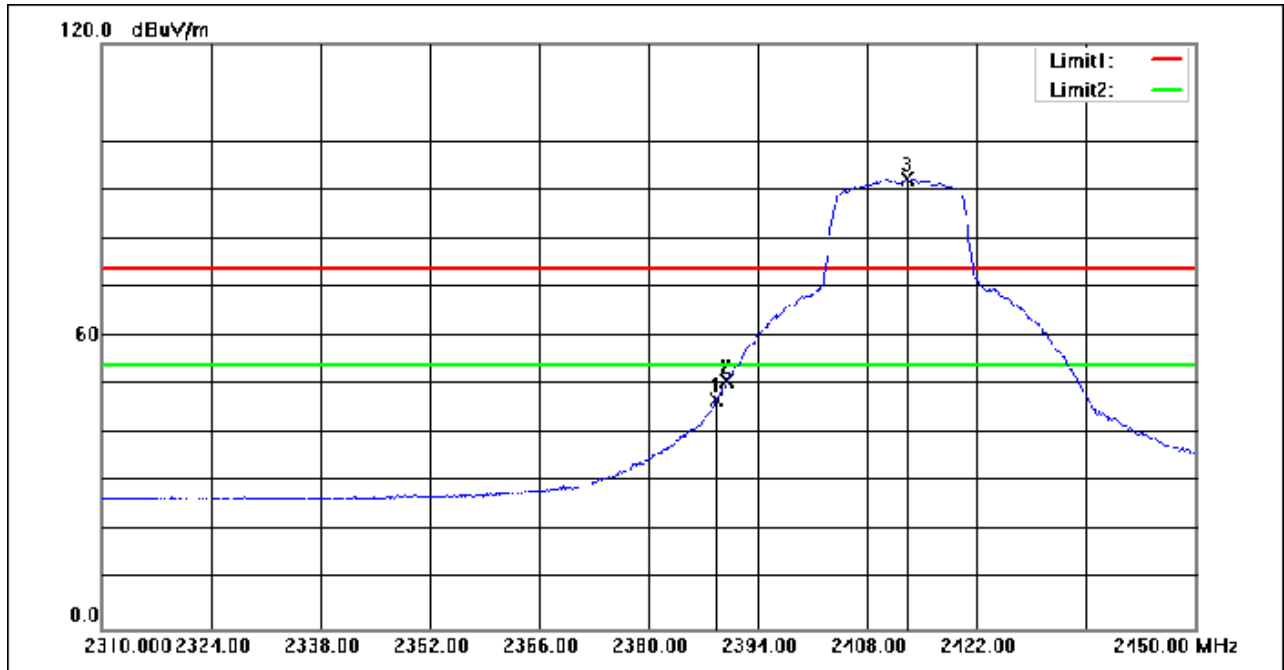
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| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2388.680 | 66.60 | -19.79 | 46.81 | 54.00 | -7.19 | AVG |
| 2 | 2390.000 | 70.59 | -19.79 | 50.80 | 54.00 | -3.20 | AVG |
| 3 | 2413.180 | 111.82 | -19.54 | 92.28 | 54.00 | 38.28 | AVG |



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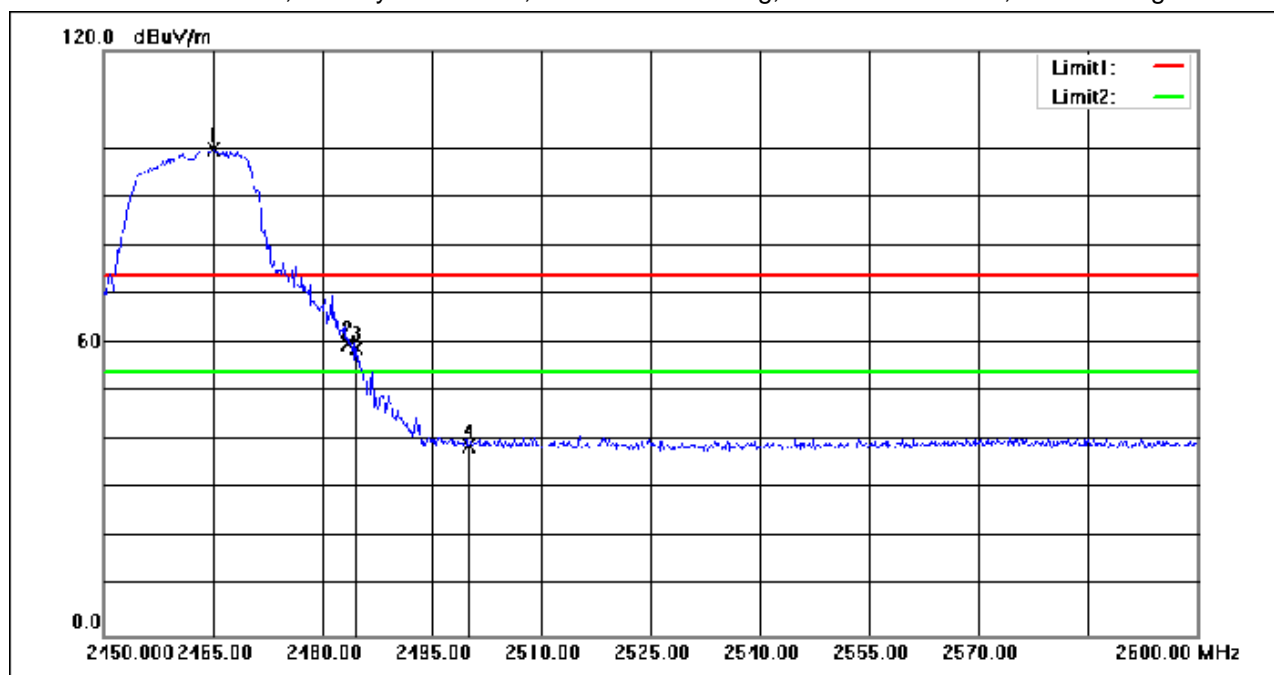
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| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2465.000 | 118.91 | -19.16 | 99.75 | 74.00 | 25.75 | peak |
| 2 | 2483.500 | 79.21 | -19.33 | 59.88 | 74.00 | -14.12 | peak |
| 3 | 2484.650 | 78.18 | -19.35 | 58.83 | 74.00 | -15.17 | peak |
| 4 | 2500.000 | 58.22 | -19.49 | 38.73 | 74.00 | -35.27 | peak |



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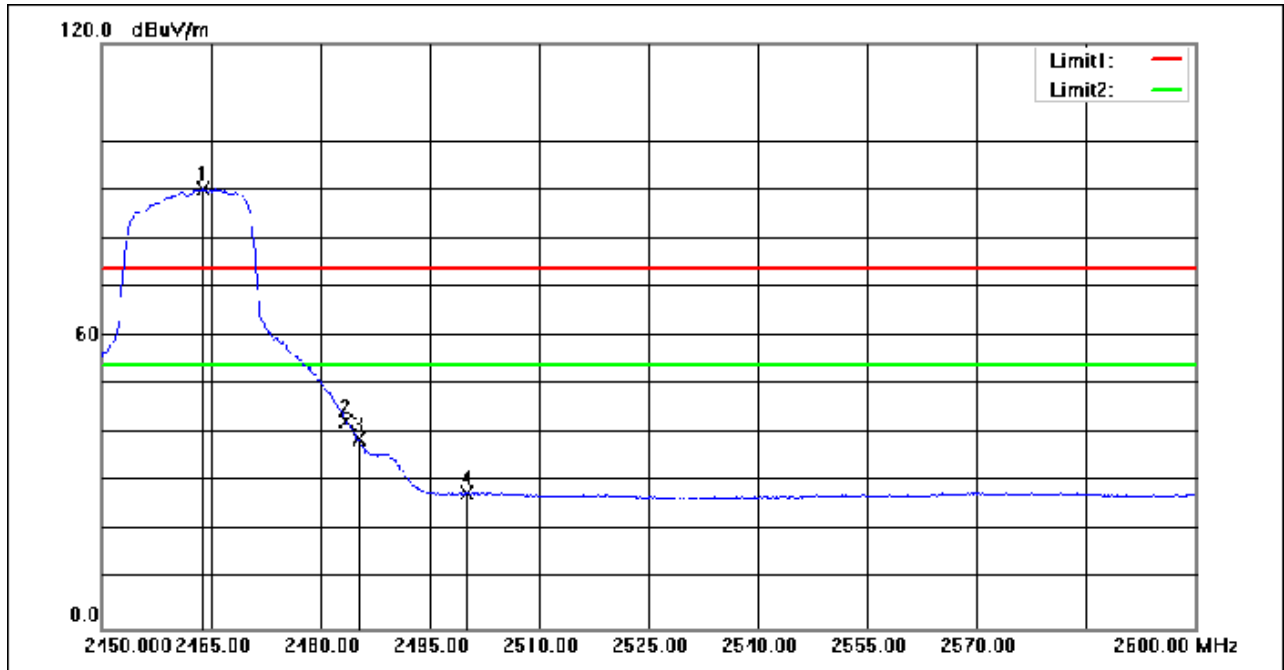
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| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2463.950 | 109.39 | -19.16 | 90.23 | 54.00 | 36.23 | AVG |
| 2 | 2483.500 | 61.87 | -19.33 | 42.54 | 54.00 | -11.46 | AVG |
| 3 | 2485.250 | 58.22 | -19.36 | 38.86 | 54.00 | -15.14 | AVG |
| 4 | 2500.000 | 47.12 | -19.49 | 27.63 | 54.00 | -26.37 | AVG |



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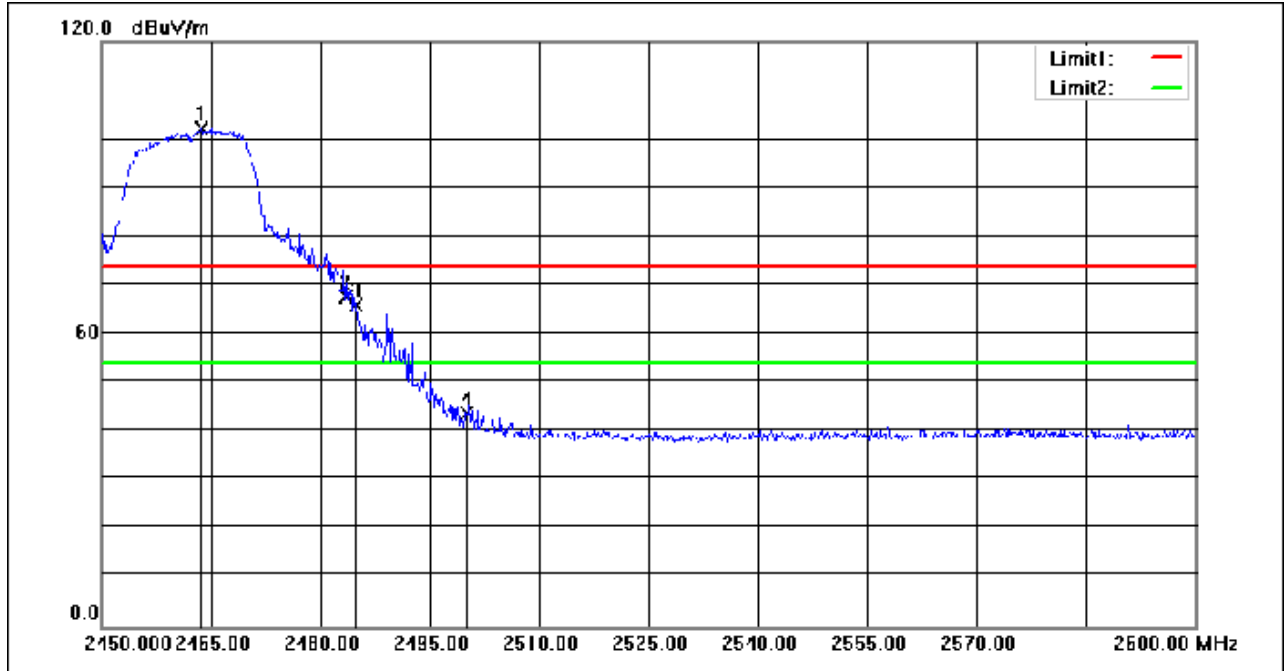
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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2463.650 | 121.20 | -19.16 | 102.04 | 74.00 | 28.04 | peak |
| 2 | 2483.500 | 86.93 | -19.33 | 67.60 | 74.00 | -6.40 | peak |
| 3 | 2484.950 | 85.24 | -19.35 | 65.89 | 74.00 | -8.11 | peak |
| 4 | 2500.000 | 63.01 | -19.49 | 43.52 | 74.00 | -30.48 | peak |



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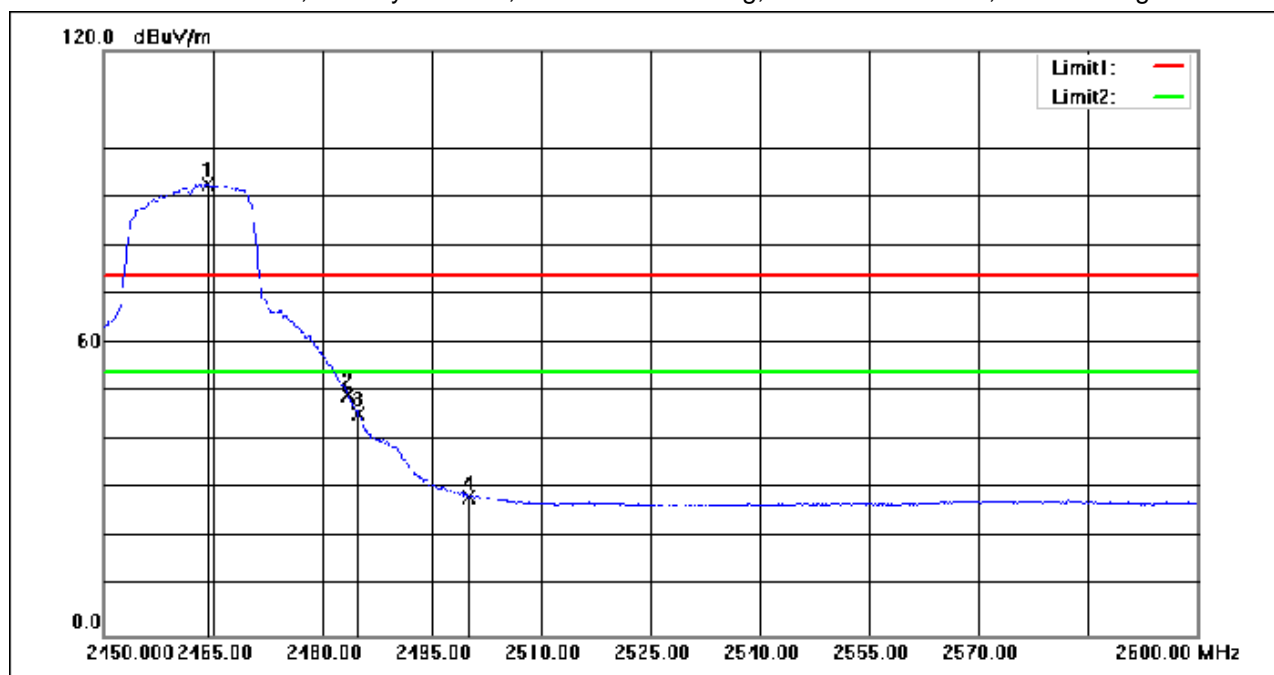
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| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2464.250 | 111.75 | -19.16 | 92.59 | 54.00 | 38.59 | AVG |
| 2 | 2483.500 | 68.73 | -19.33 | 49.40 | 54.00 | -4.60 | AVG |
| 3 | 2484.950 | 64.83 | -19.35 | 45.48 | 54.00 | -8.52 | AVG |
| 4 | 2500.000 | 47.99 | -19.49 | 28.50 | 54.00 | -25.50 | AVG |



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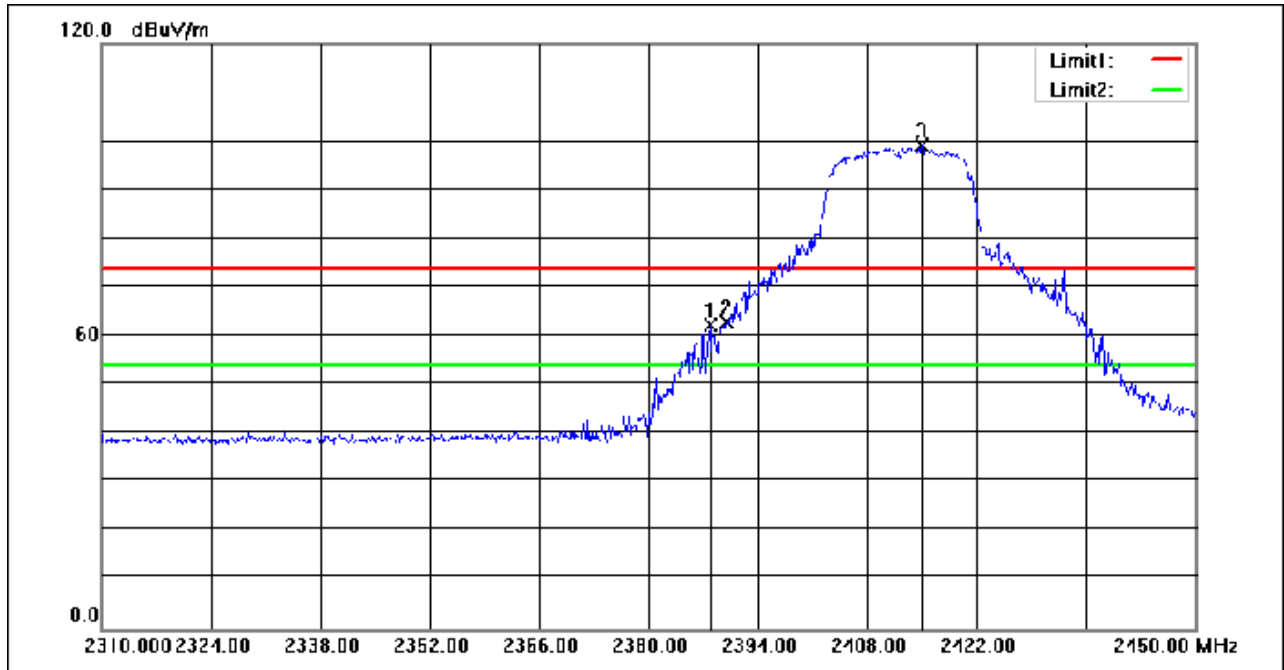
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2387.840 | 81.91 | -19.80 | 62.11 | 74.00 | -11.89 | peak |
| 2 | 2390.000 | 82.67 | -19.79 | 62.88 | 74.00 | -11.12 | peak |
| 3 | 2415.000 | 118.79 | -19.52 | 99.27 | 74.00 | 25.27 | peak |



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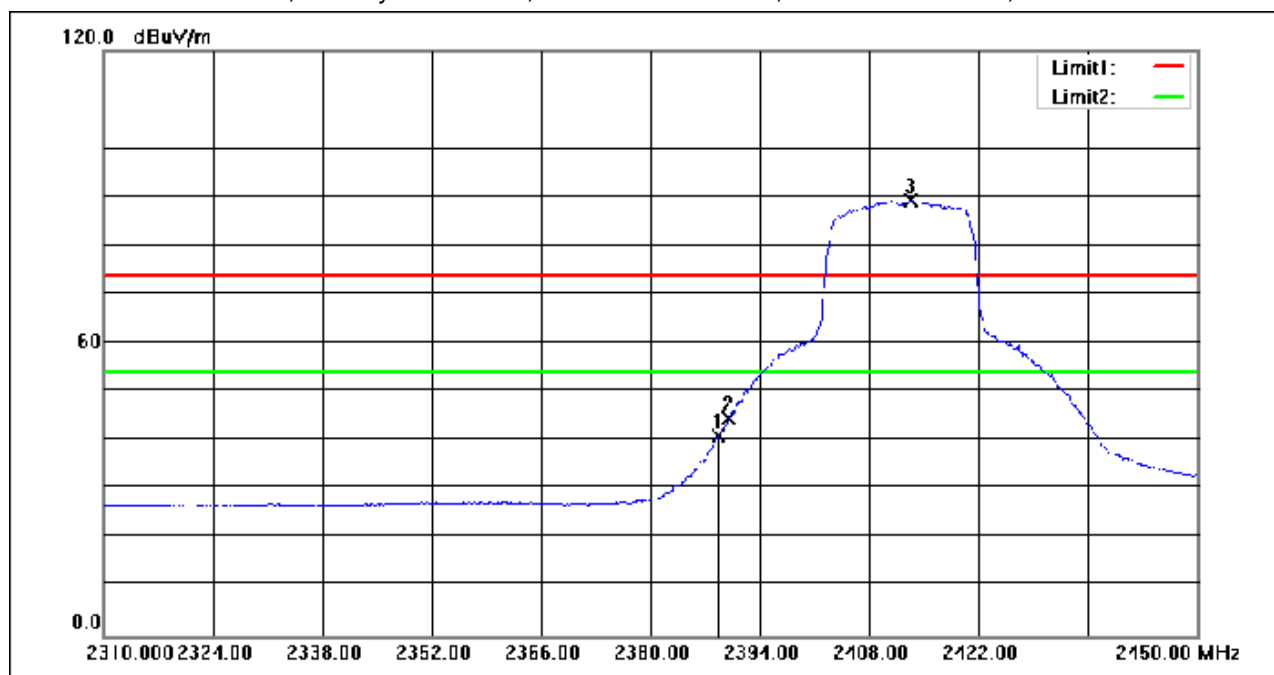
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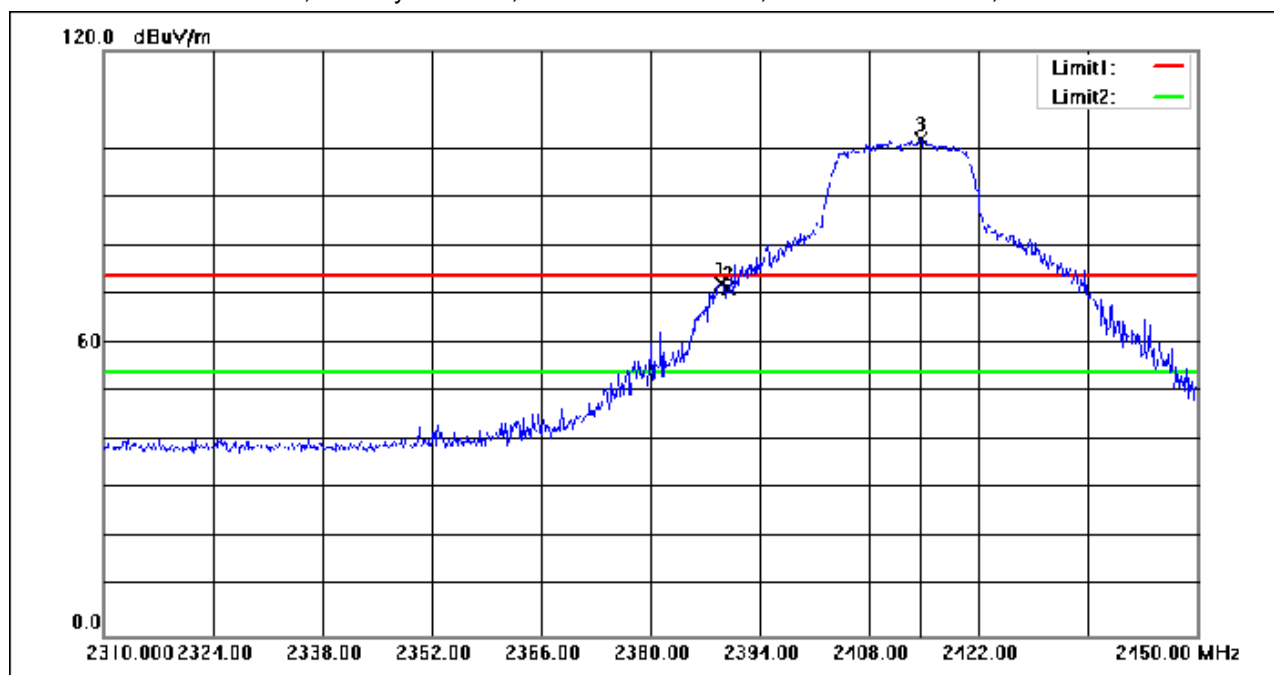
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| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2388.680 | 60.61 | -19.79 | 40.82 | 54.00 | -13.18 | AVG |
| 2 | 2390.000 | 64.26 | -19.79 | 44.47 | 54.00 | -9.53 | AVG |
| 3 | 2413.320 | 108.75 | -19.54 | 89.21 | 54.00 | 35.21 | AVG |



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2388.960 | 91.87 | -19.79 | 72.08 | 74.00 | -1.92 | peak |
| 2 | 2390.000 | 91.03 | -19.79 | 71.24 | 74.00 | -2.76 | peak |
| 3 | 2414.580 | 121.38 | -19.53 | 101.85 | 74.00 | 27.85 | peak |



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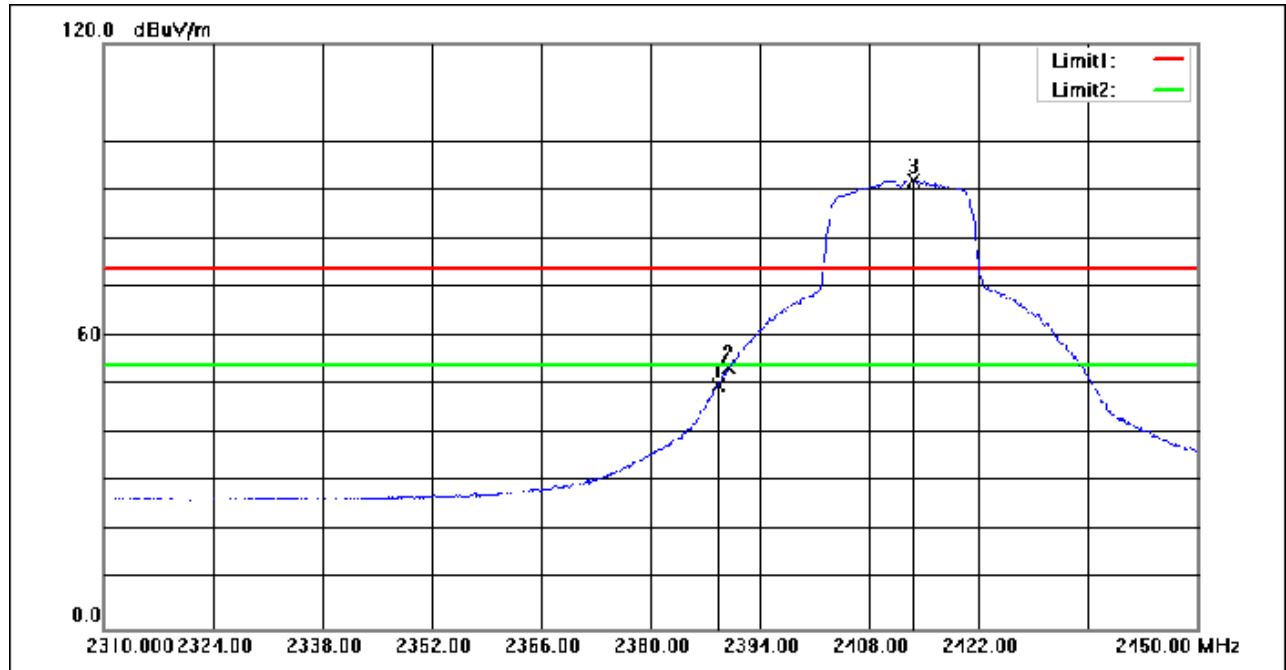
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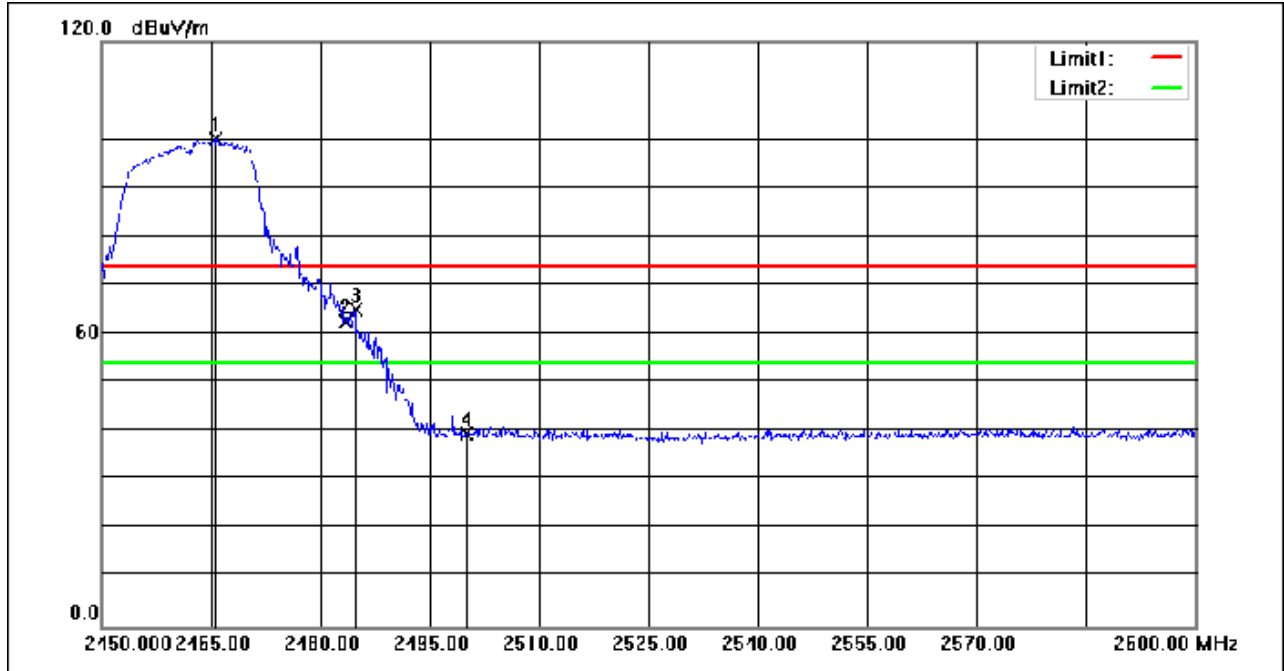
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2388.680 | 69.62 | -19.79 | 49.83 | 54.00 | -4.17 | AVG |
| 2 | 2390.000 | 73.44 | -19.79 | 53.65 | 54.00 | -0.35 | AVG |
| 3 | 2413.600 | 111.58 | -19.54 | 92.04 | 54.00 | 38.04 | AVG |



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2465.750 | 119.25 | -19.17 | 100.08 | 74.00 | 26.08 | peak |
| 2 | 2483.500 | 82.00 | -19.33 | 62.67 | 74.00 | -11.33 | peak |
| 3 | 2484.800 | 84.17 | -19.35 | 64.82 | 74.00 | -9.18 | peak |
| 4 | 2500.000 | 58.86 | -19.49 | 39.37 | 74.00 | -34.63 | peak |



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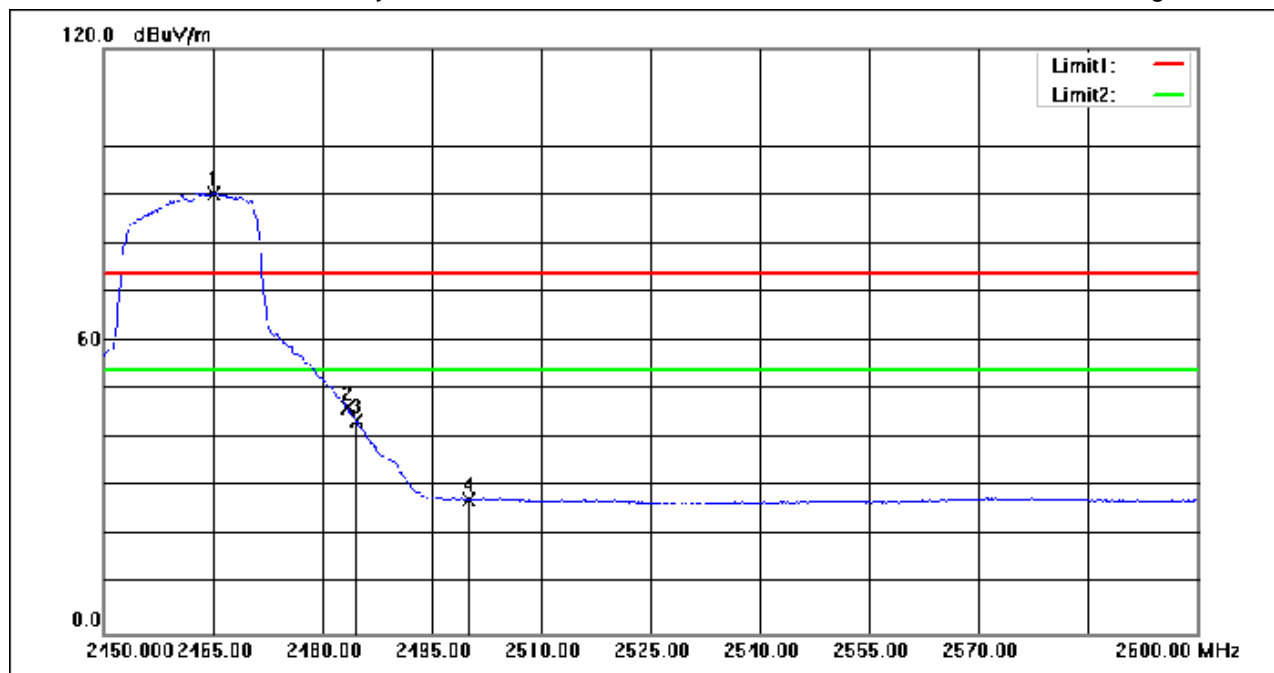
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2465.150 | 109.45 | -19.17 | 90.28 | 54.00 | 36.28 | AVG |
| 2 | 2483.500 | 65.53 | -19.33 | 46.20 | 54.00 | -7.80 | AVG |
| 3 | 2484.650 | 63.10 | -19.35 | 43.75 | 54.00 | -10.25 | AVG |
| 4 | 2500.000 | 47.05 | -19.49 | 27.56 | 54.00 | -26.44 | AVG |



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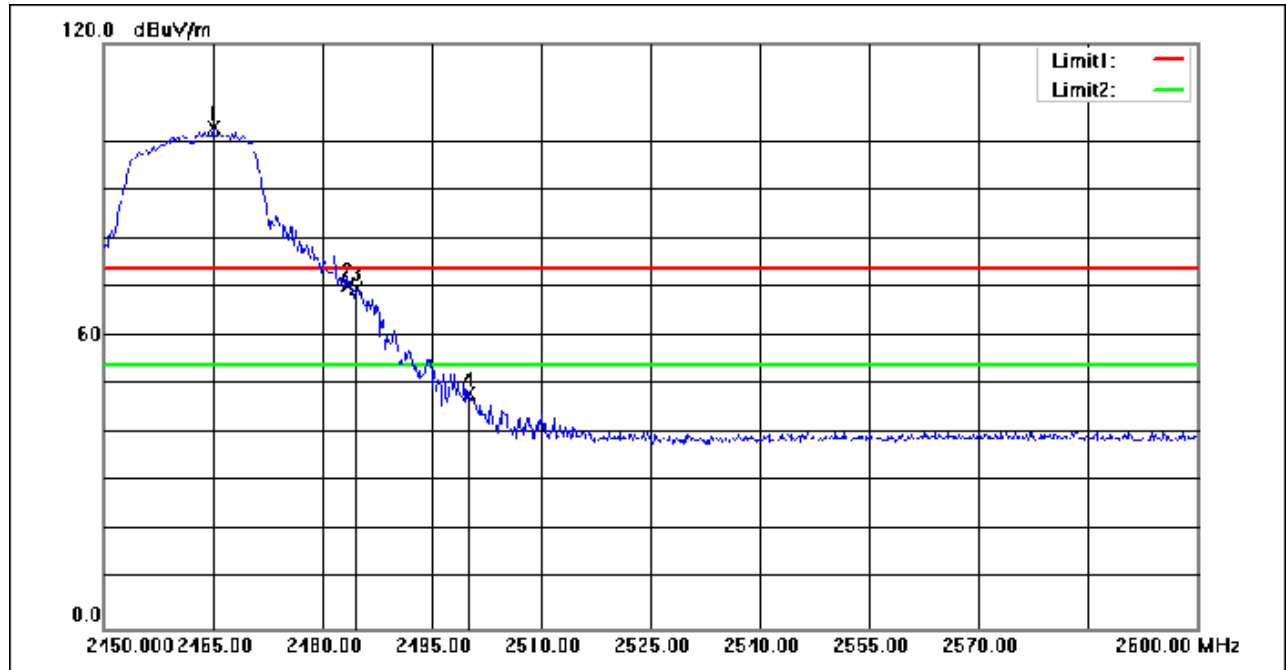
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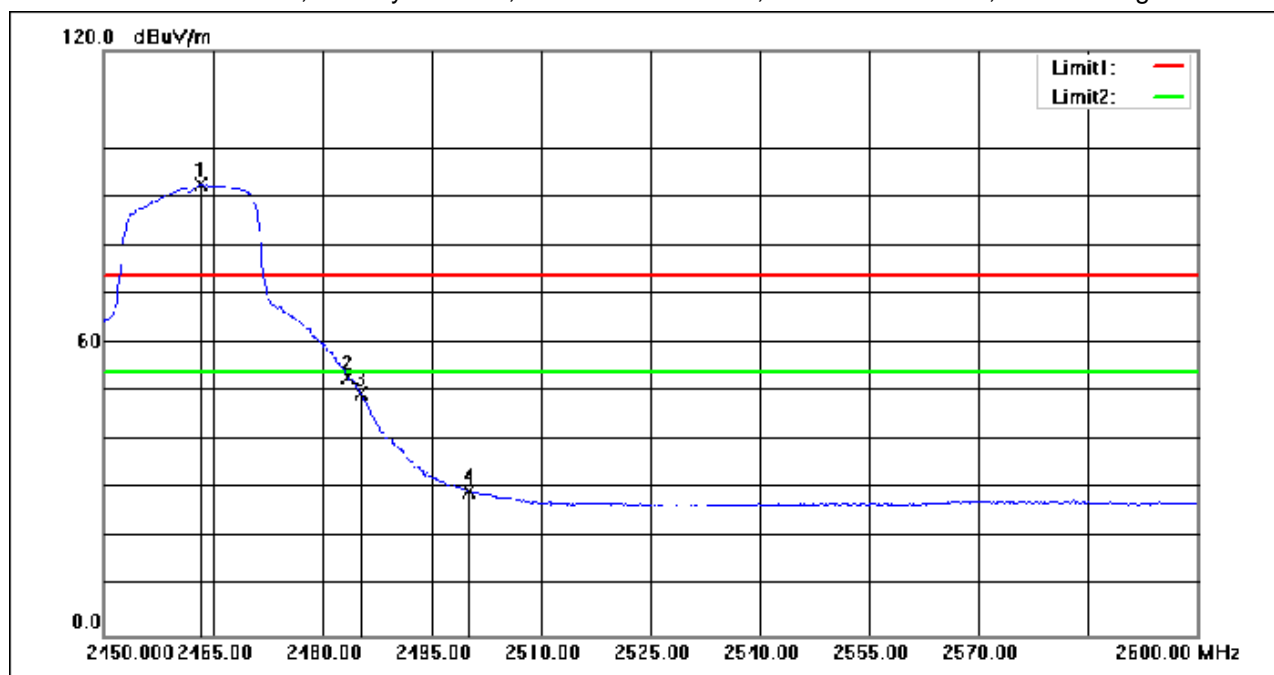
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2465.000 | 121.78 | -19.16 | 102.62 | 74.00 | 28.62 | peak |
| 2 | 2483.500 | 89.56 | -19.33 | 70.23 | 74.00 | -3.77 | peak |
| 3 | 2484.650 | 89.21 | -19.35 | 69.86 | 74.00 | -4.14 | peak |
| 4 | 2500.000 | 67.67 | -19.49 | 48.18 | 74.00 | -25.82 | peak |



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 2463.200 | 111.75 | -19.15 | 92.60 | 54.00 | 38.60 | AVG |
| 2 | 2483.500 | 72.17 | -19.33 | 52.84 | 54.00 | -1.16 | AVG |
| 3 | 2485.250 | 69.15 | -19.36 | 49.79 | 54.00 | -4.21 | AVG |
| 4 | 2500.000 | 49.18 | -19.49 | 29.69 | 54.00 | -24.31 | AVG |



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6.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| 960-1000 | 500 | 3 |

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

| Pre-scan Final test | Mode Code | Description |
|------------------------|--------------|--|
| Final test | 04 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |



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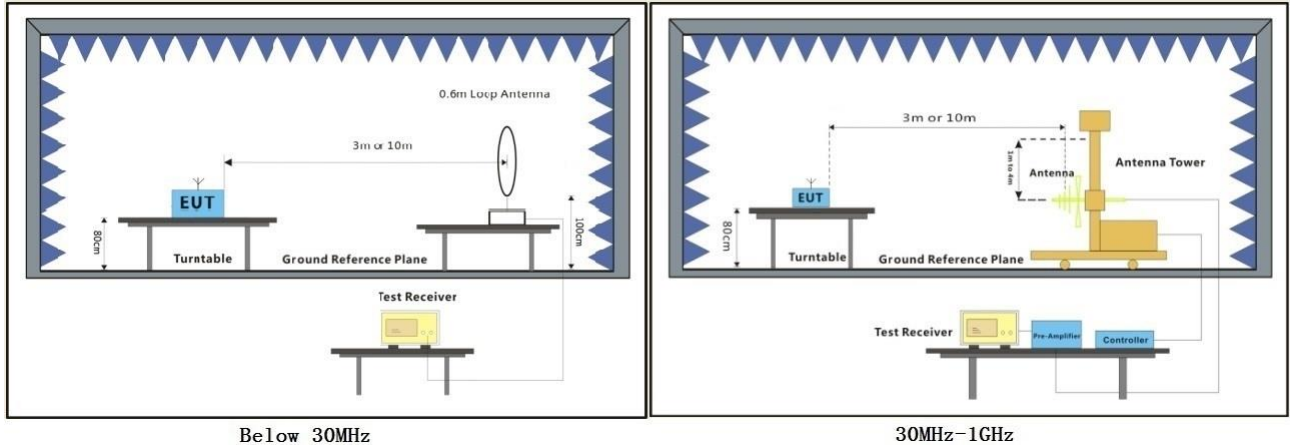
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6.2.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz



6.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 4: We have evaluated different adapters and battery modes. The battery mode is the worst, and only the battery mode is tested finally.



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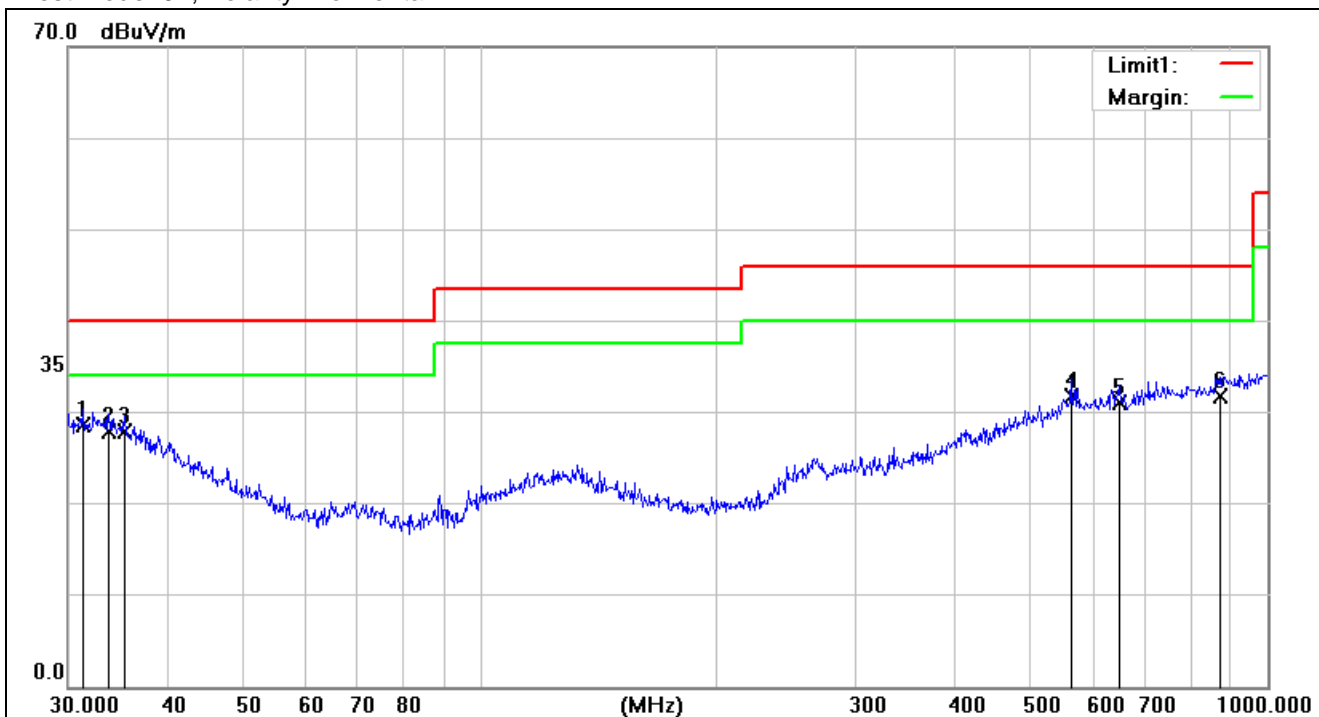
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Test Mode: 04; Polarity: Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|----------------|------------------|--------|
| 1 | 31.2893 | 3.36 | 25.20 | 28.56 | 40.00 | -11.44 | 100 | 243 | QP |
| 2 | 33.7986 | 2.92 | 24.97 | 27.89 | 40.00 | -12.11 | 100 | 103 | QP |
| 3 | 35.3750 | 3.45 | 24.46 | 27.91 | 40.00 | -12.09 | 200 | 162 | QP |
| 4 | 562.6624 | 4.28 | 27.44 | 31.72 | 46.00 | -14.28 | 100 | 209 | QP |
| 5 | 647.3856 | 3.25 | 27.80 | 31.05 | 46.00 | -14.95 | 100 | 51 | QP |
| 6 | 869.1302 | 29.41 | 2.27 | 31.68 | 46.00 | -14.32 | 100 | 322 | QP |



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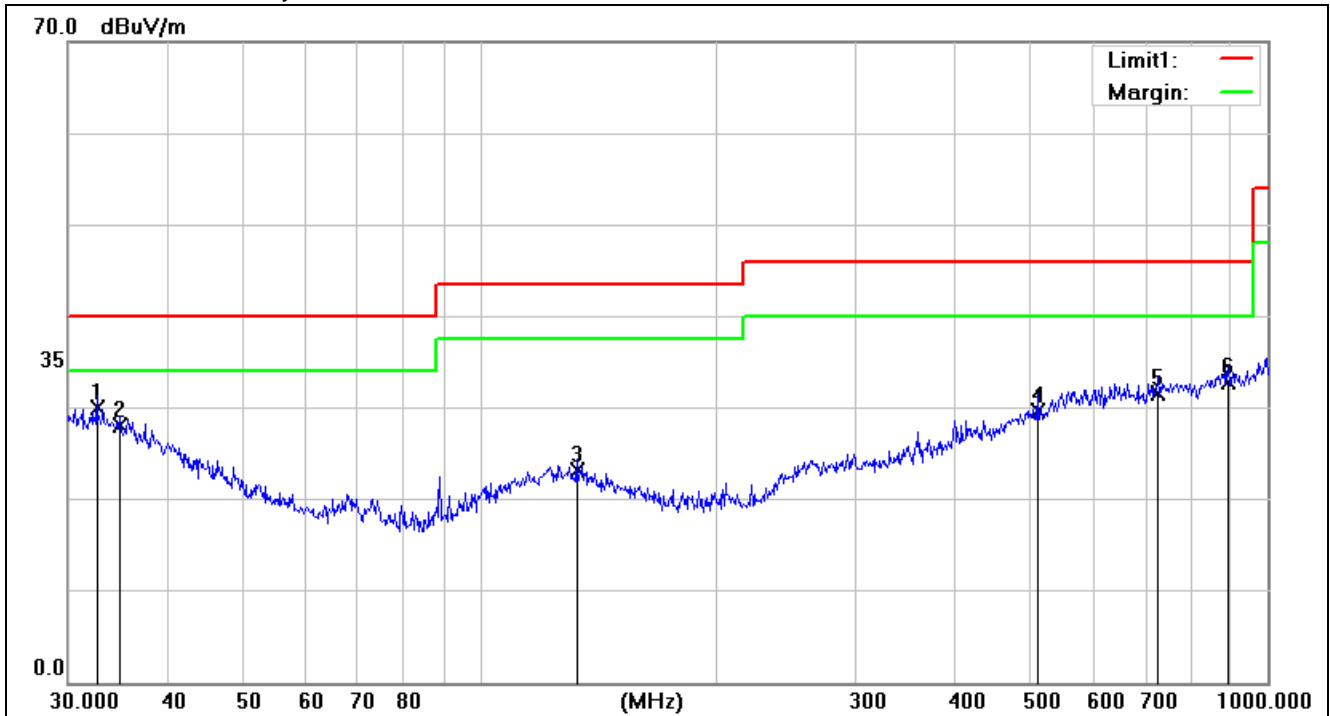
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Test Mode: 04; Polarity: Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|----------------|------------------|--------|
| 1 | 32.6340 | 4.90 | 25.12 | 30.02 | 40.00 | -9.98 | 100 | 331 | QP |
| 2 | 34.8823 | 3.42 | 24.69 | 28.11 | 40.00 | -11.89 | 100 | 293 | QP |
| 3 | 132.6850 | 3.84 | 19.30 | 23.14 | 43.50 | -20.36 | 100 | 91 | QP |
| 4 | 510.0436 | 3.68 | 25.90 | 29.58 | 46.00 | -16.42 | 200 | 144 | QP |
| 5 | 726.8052 | 29.13 | 2.43 | 31.56 | 46.00 | -14.44 | 100 | 185 | QP |
| 6 | 890.7278 | 30.31 | 2.43 | 32.74 | 46.00 | -13.26 | 100 | 30 | QP |



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6.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| Above 1000 | 500 | 3 |

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

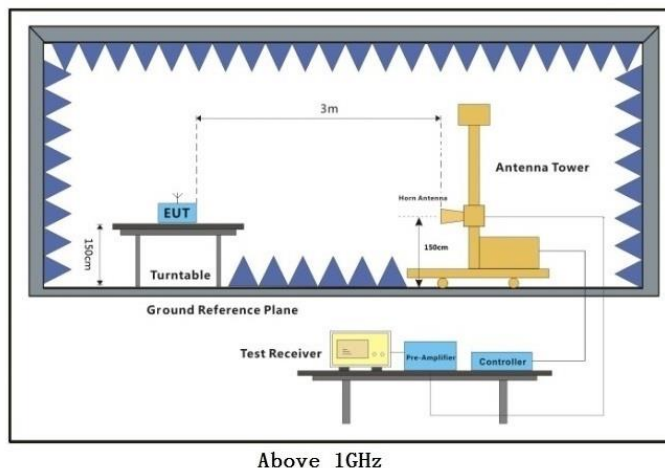
Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

6.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 04 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

6.3.3 Test Setup Diagram



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6.3.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4: We have evaluated different adapters and battery modes. The battery mode is the worst, and only the battery mode is tested finally.



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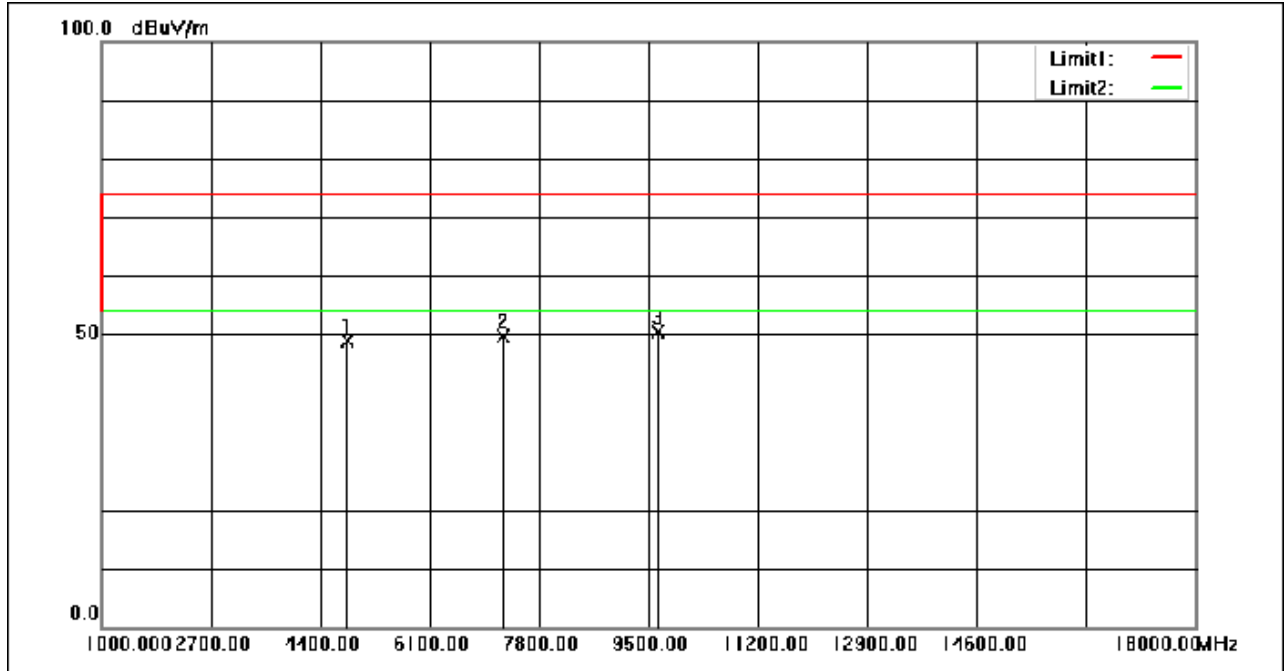
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4824.000 | 57.76 | -8.78 | 48.98 | 74.00 | -25.02 | peak |
| 2 | 7236.000 | 55.52 | -5.86 | 49.66 | 74.00 | -24.34 | peak |
| 3 | 9648.000 | 51.73 | -1.31 | 50.42 | 74.00 | -23.58 | peak |



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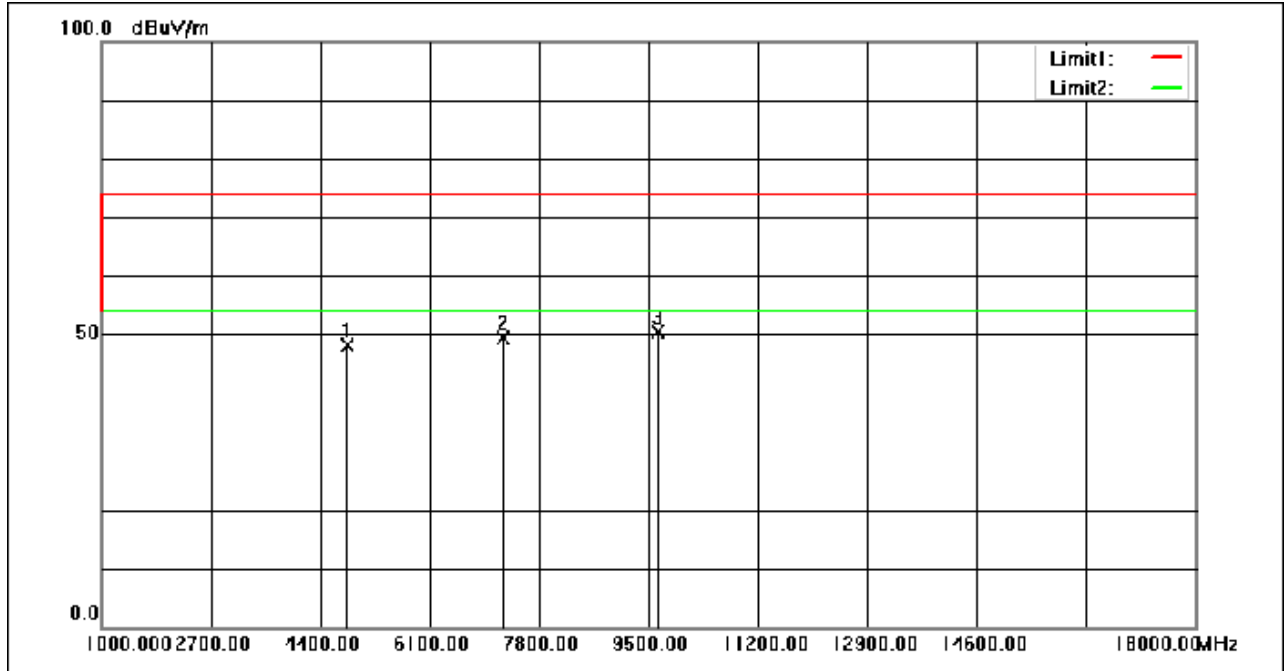
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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4824.000 | 56.96 | -8.78 | 48.18 | 74.00 | -25.82 | peak |
| 2 | 7236.000 | 55.23 | -5.86 | 49.37 | 74.00 | -24.63 | peak |
| 3 | 9648.000 | 51.57 | -1.31 | 50.26 | 74.00 | -23.74 | peak |



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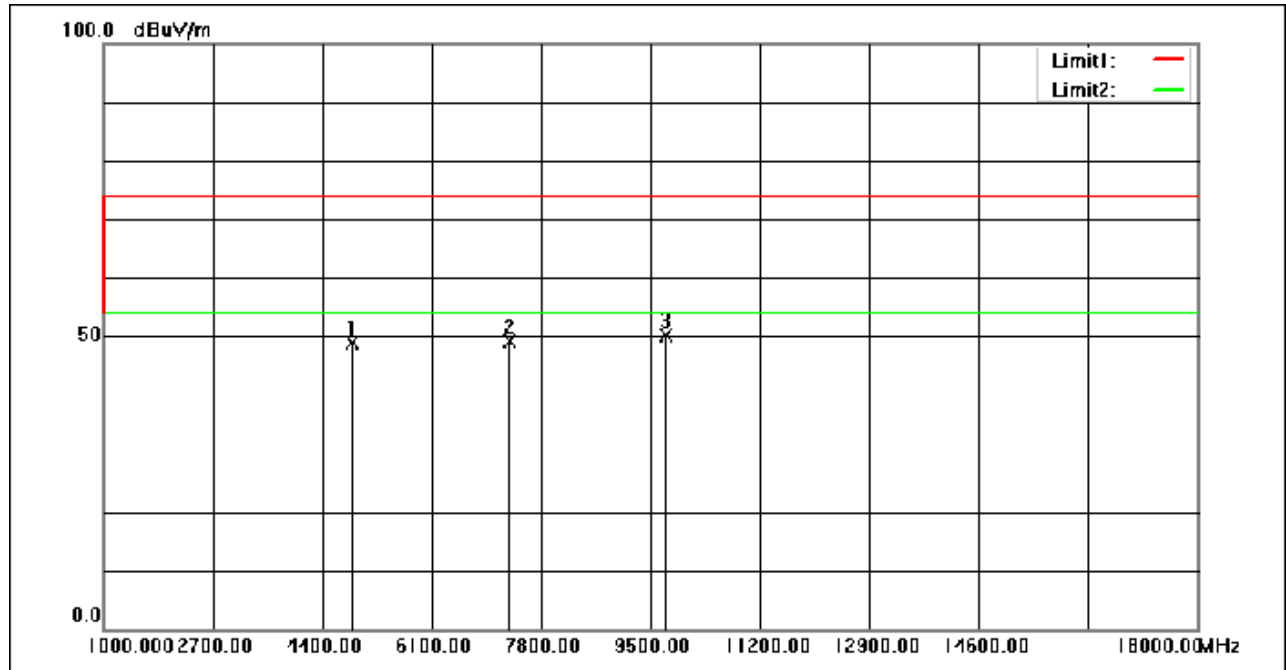
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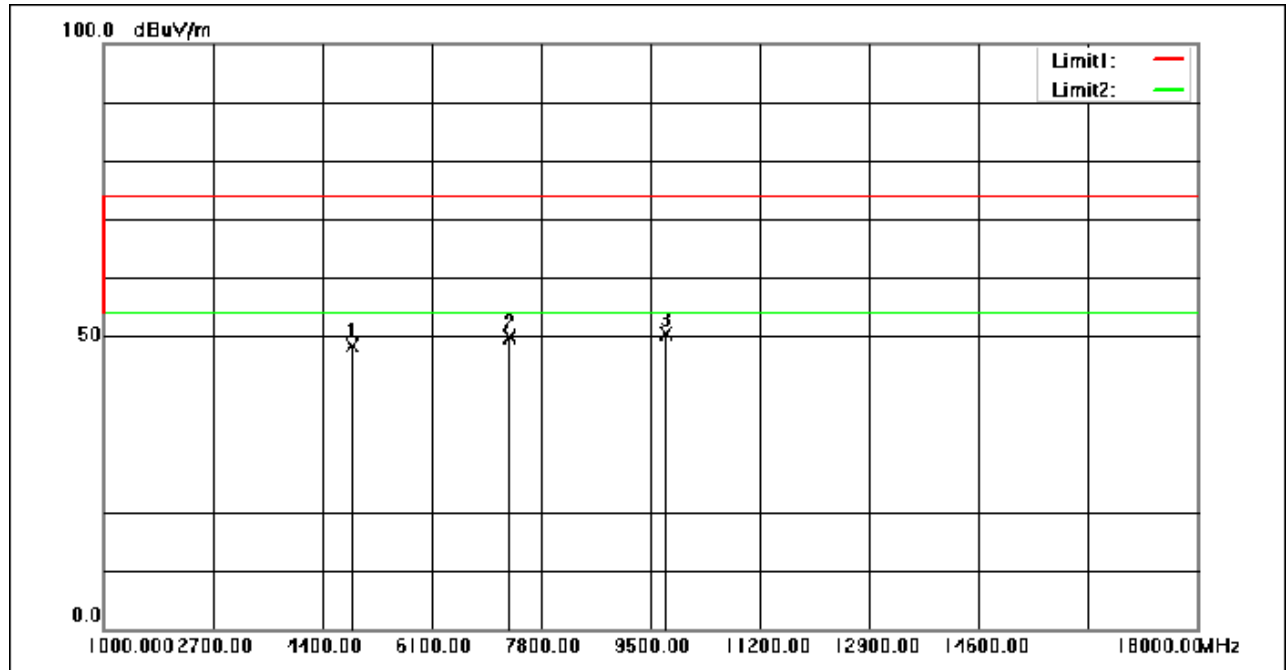
Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4874.000 | 57.60 | -8.61 | 48.99 | 74.00 | -25.01 | peak |
| 2 | 7311.000 | 54.87 | -5.78 | 49.09 | 74.00 | -24.91 | peak |
| 3 | 9748.000 | 51.51 | -1.43 | 50.08 | 74.00 | -23.92 | peak |



Test Mode: 04; Polarity: Vertical; Modulation: 802.11b; Bandwidth: 20MHz; Channel: middle



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------------------|-----------------|----------------|-------------|--------|
| 1 | 4874.000 | 56.88 | -8.61 | 48.27 | 74.00 | -25.73 | peak |
| 2 | 7311.000 | 55.60 | -5.78 | 49.82 | 74.00 | -24.18 | peak |
| 3 | 9748.000 | 51.72 | -1.43 | 50.29 | 74.00 | -23.71 | peak |



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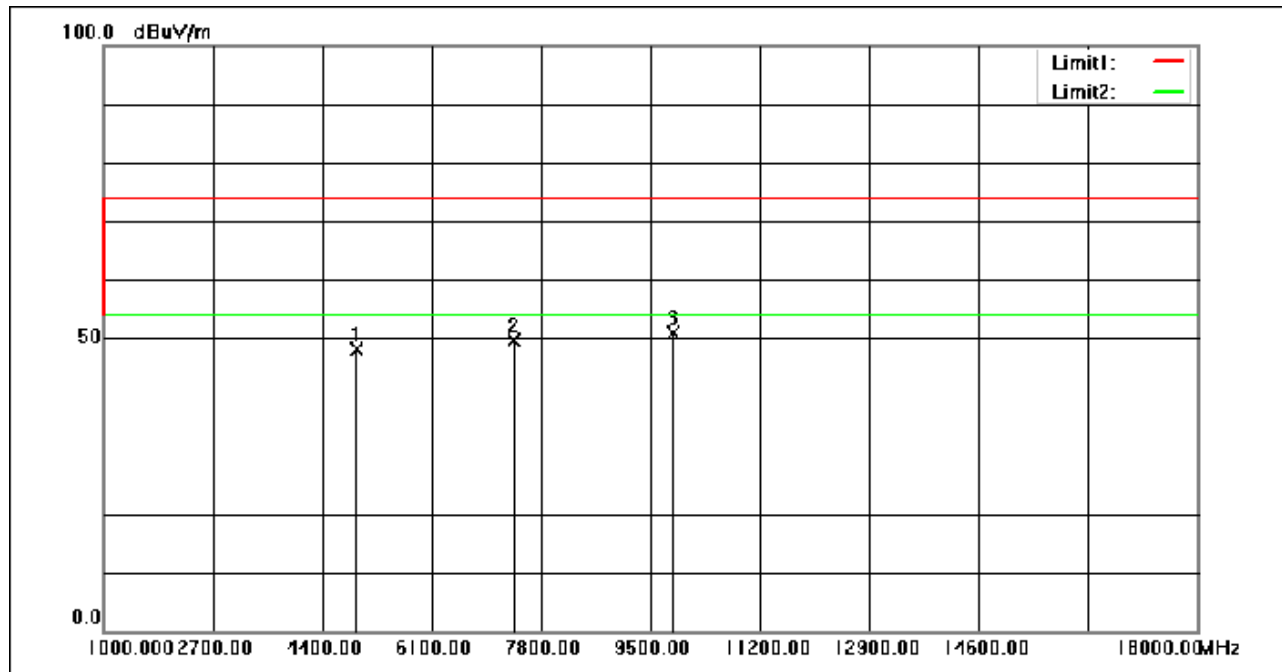
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4924.000 | 56.63 | -8.44 | 48.19 | 74.00 | -25.81 | peak |
| 2 | 7386.000 | 55.43 | -5.69 | 49.74 | 74.00 | -24.26 | peak |
| 3 | 9848.000 | 52.03 | -1.27 | 50.76 | 74.00 | -23.24 | peak |



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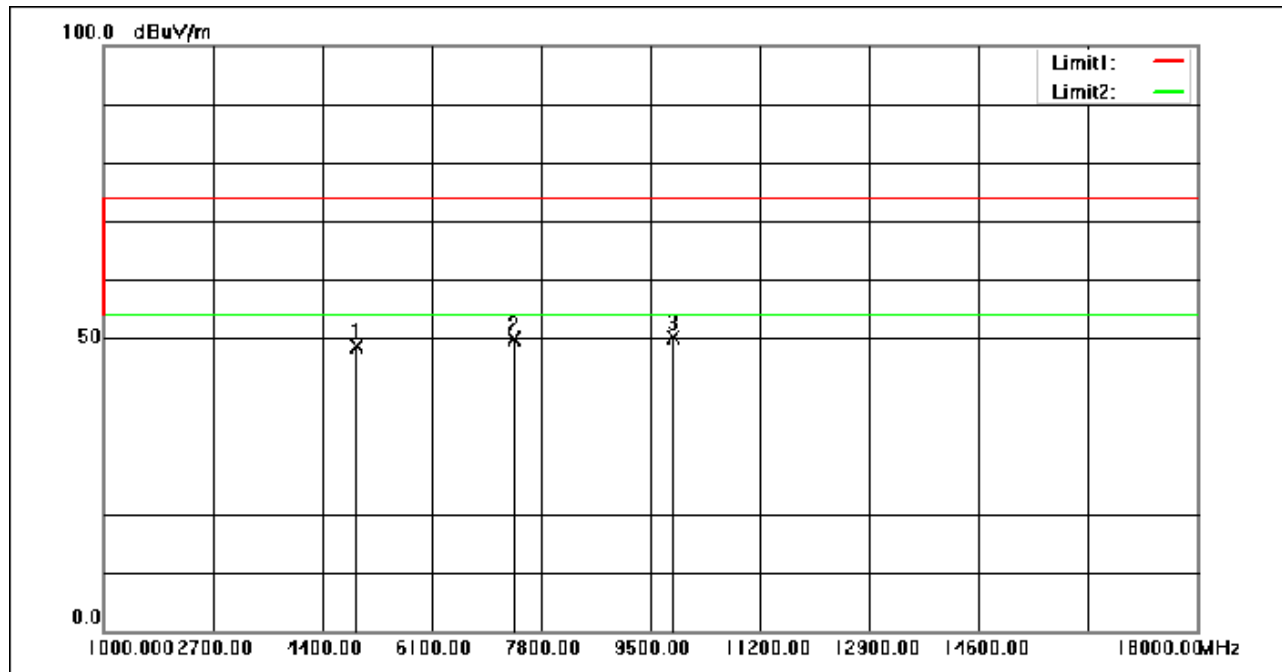
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| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4924.000 | 57.13 | -8.44 | 48.69 | 74.00 | -25.31 | peak |
| 2 | 7386.000 | 55.65 | -5.69 | 49.96 | 74.00 | -24.04 | peak |
| 3 | 9848.000 | 51.32 | -1.27 | 50.05 | 74.00 | -23.95 | peak |



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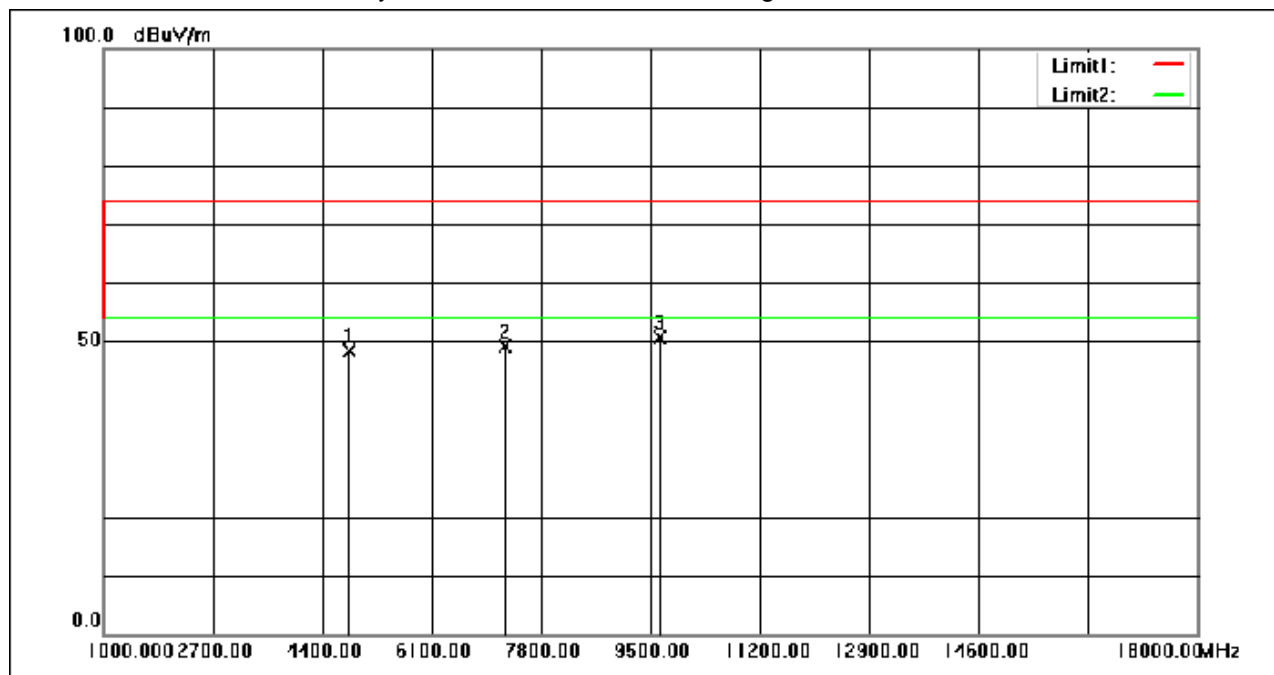
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4824.000 | 57.04 | -8.78 | 48.26 | 74.00 | -25.74 | peak |
| 2 | 7236.000 | 54.89 | -5.86 | 49.03 | 74.00 | -24.97 | peak |
| 3 | 9648.000 | 52.03 | -1.31 | 50.72 | 74.00 | -23.28 | peak |



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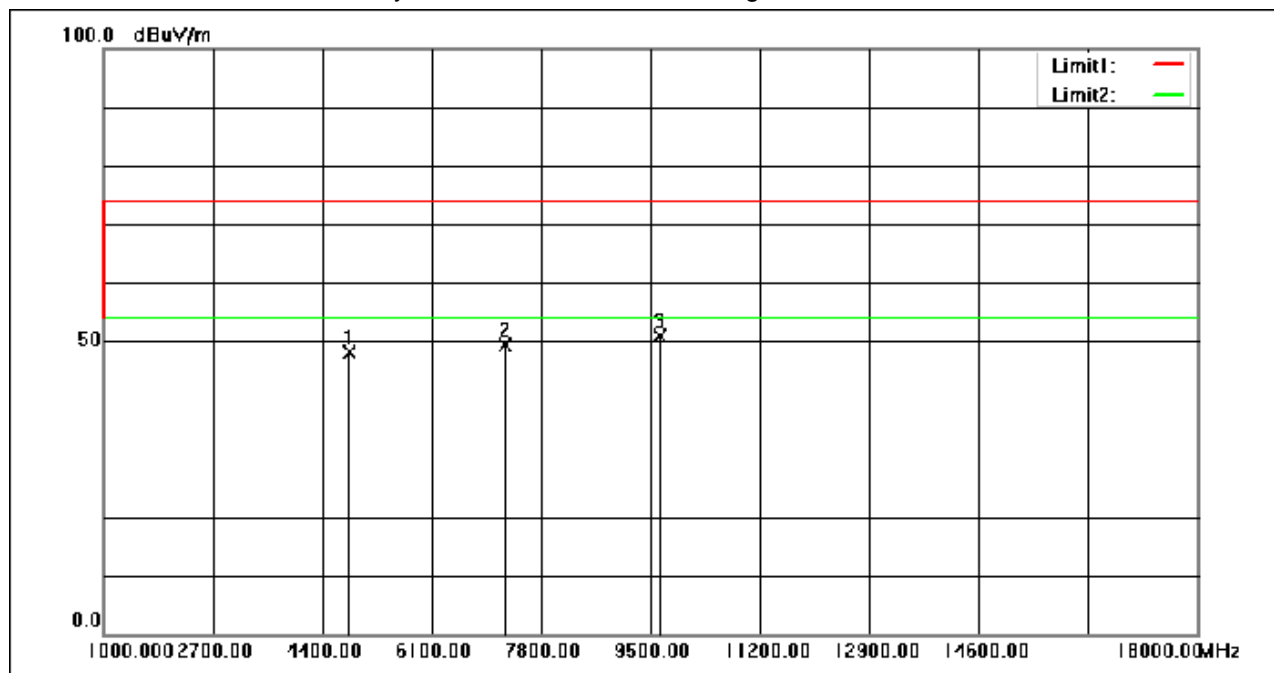
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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4824.000 | 56.95 | -8.78 | 48.17 | 74.00 | -25.83 | peak |
| 2 | 7236.000 | 55.18 | -5.86 | 49.32 | 74.00 | -24.68 | peak |
| 3 | 9648.000 | 52.28 | -1.31 | 50.97 | 74.00 | -23.03 | peak |



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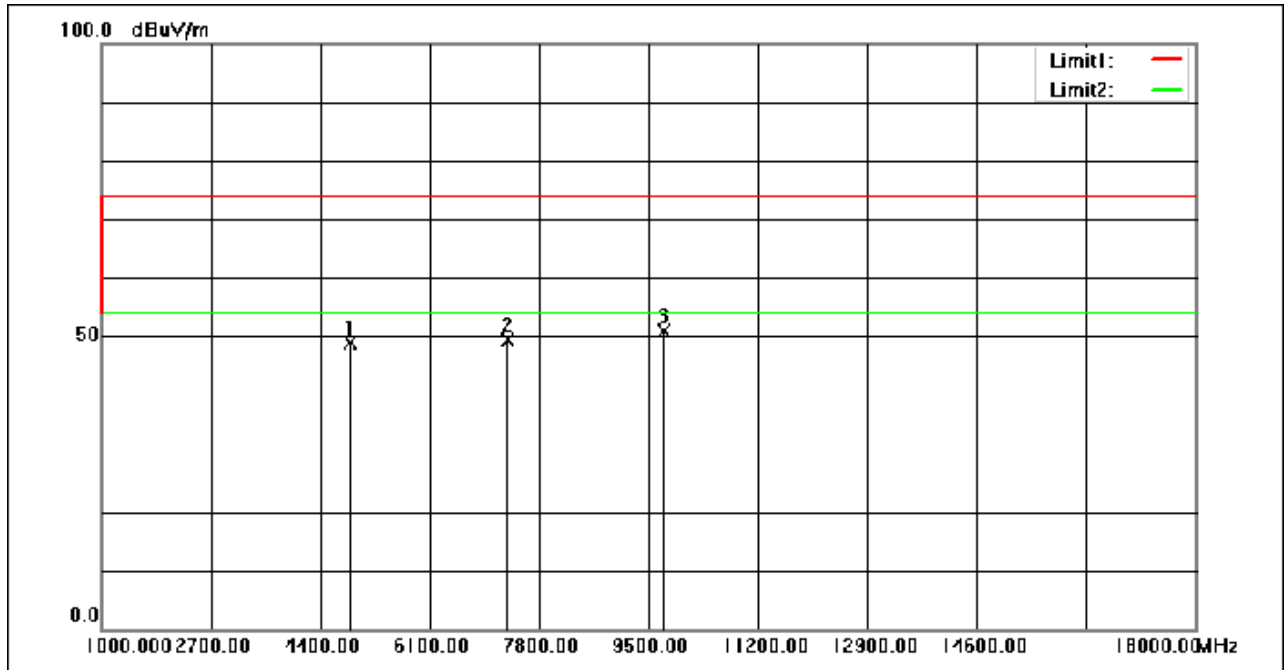
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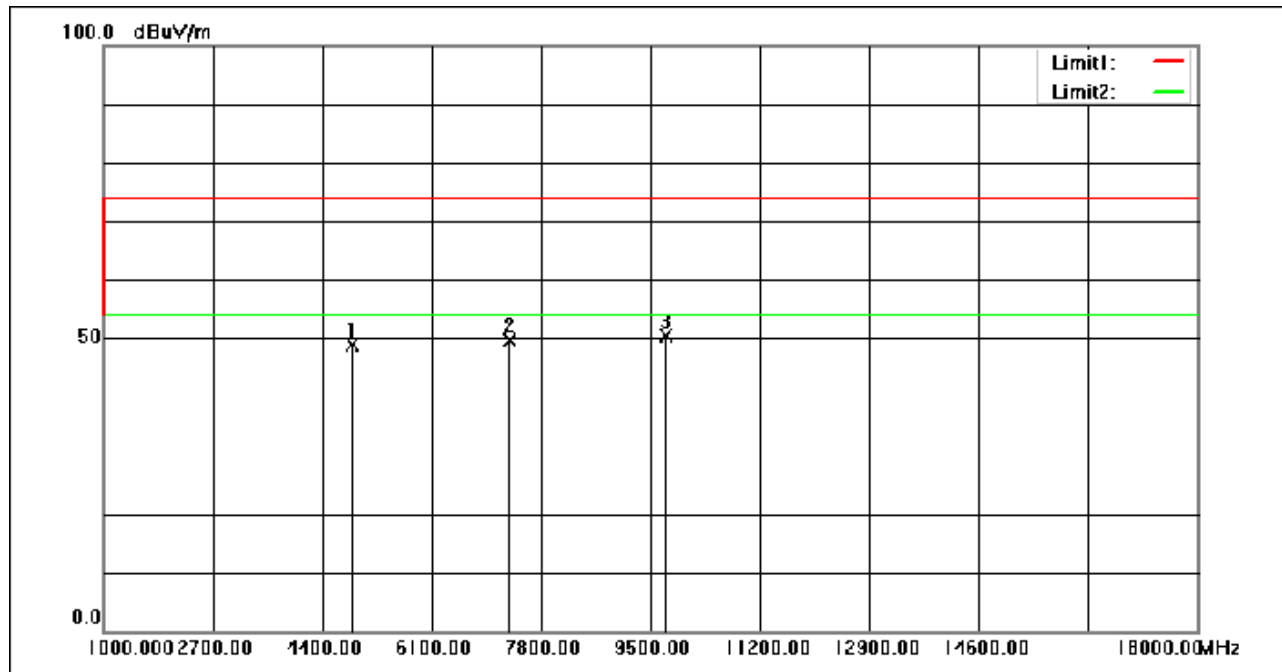
Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4874.000 | 57.49 | -8.61 | 48.88 | 74.00 | -25.12 | peak |
| 2 | 7311.000 | 55.18 | -5.78 | 49.40 | 74.00 | -24.60 | peak |
| 3 | 9748.000 | 52.30 | -1.43 | 50.87 | 74.00 | -23.13 | peak |



Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4874.000 | 57.38 | -8.61 | 48.77 | 74.00 | -25.23 | peak |
| 2 | 7311.000 | 55.37 | -5.78 | 49.59 | 74.00 | -24.41 | peak |
| 3 | 9748.000 | 51.89 | -1.43 | 50.46 | 74.00 | -23.54 | peak |



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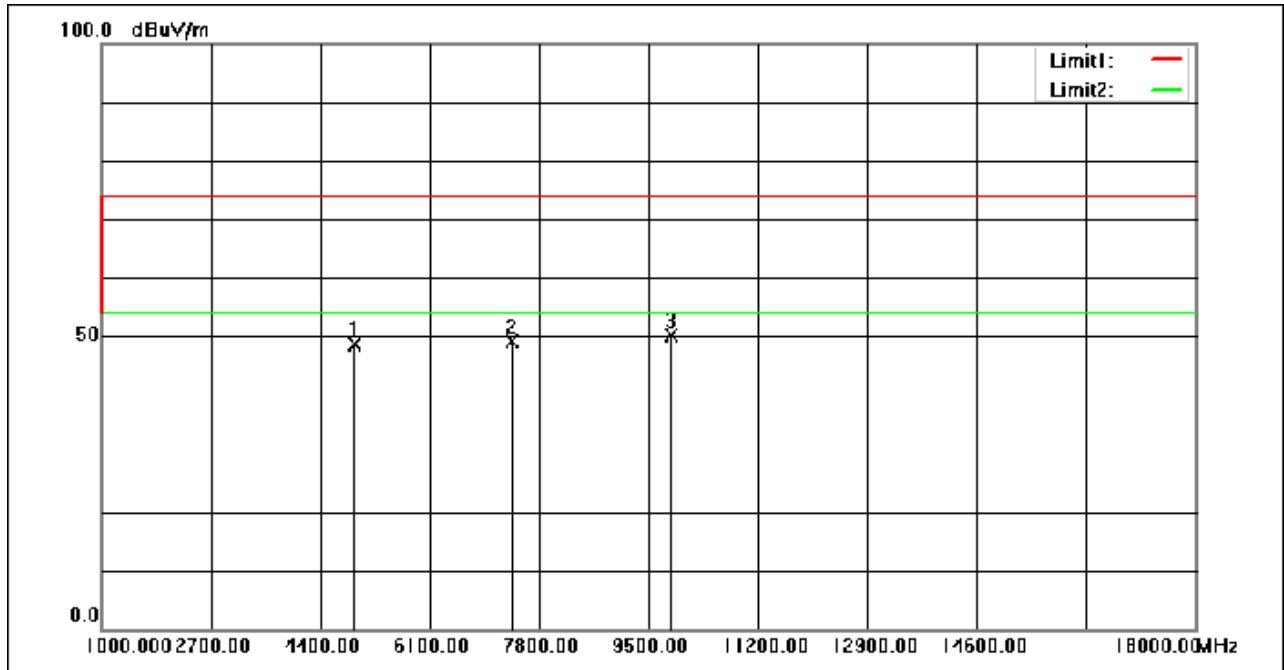
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4924.000 | 57.14 | -8.44 | 48.70 | 74.00 | -25.30 | peak |
| 2 | 7386.000 | 54.87 | -5.69 | 49.18 | 74.00 | -24.82 | peak |
| 3 | 9848.000 | 51.34 | -1.27 | 50.07 | 74.00 | -23.93 | peak |



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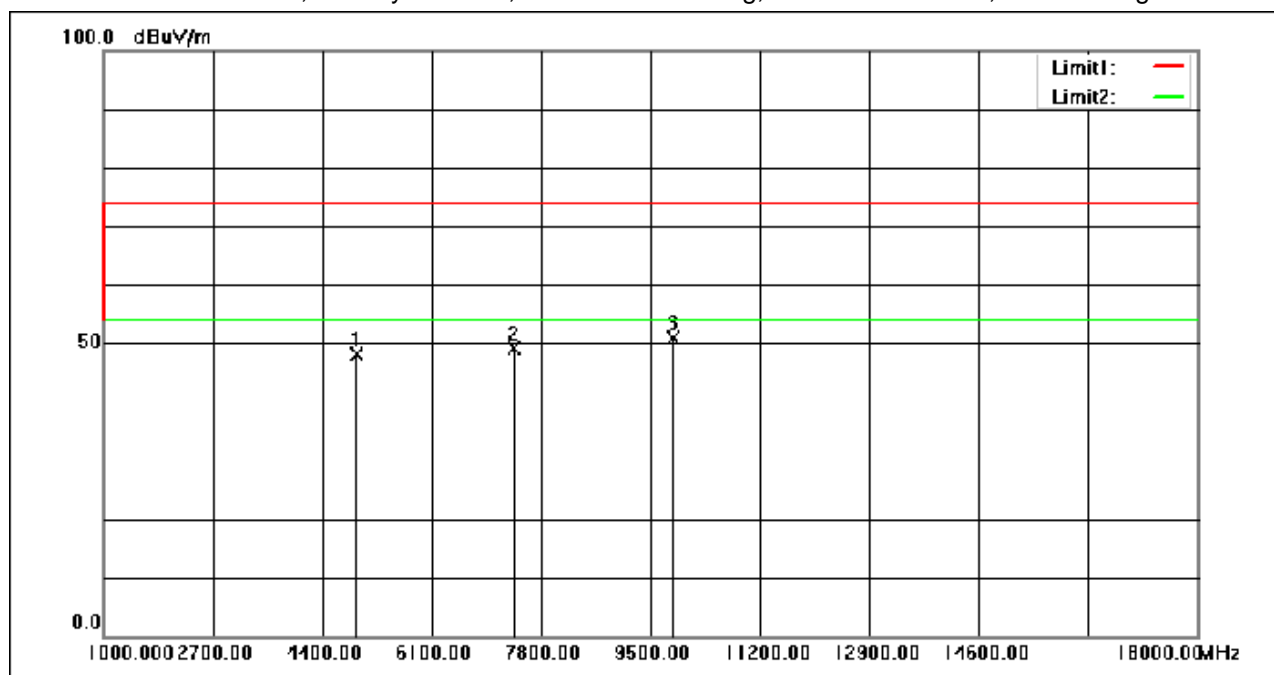
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t (86-21) 61915666 f (86-21) 61915678 sgs.china@sgs.com

Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4924.000 | 56.52 | -8.44 | 48.08 | 74.00 | -25.92 | peak |
| 2 | 7386.000 | 54.77 | -5.69 | 49.08 | 74.00 | -24.92 | peak |
| 3 | 9848.000 | 52.23 | -1.27 | 50.96 | 74.00 | -23.04 | peak |



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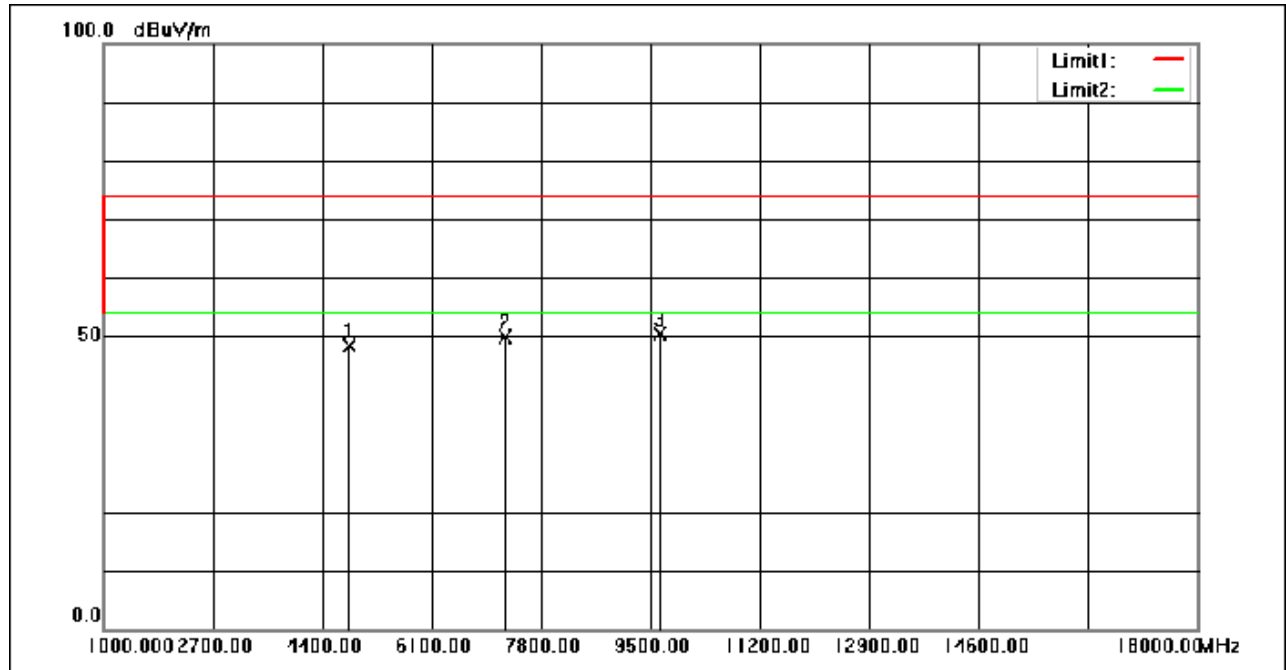
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4824.000 | 57.19 | -8.78 | 48.41 | 74.00 | -25.59 | peak |
| 2 | 7236.000 | 55.72 | -5.86 | 49.86 | 74.00 | -24.14 | peak |
| 3 | 9648.000 | 51.66 | -1.31 | 50.35 | 74.00 | -23.65 | peak |



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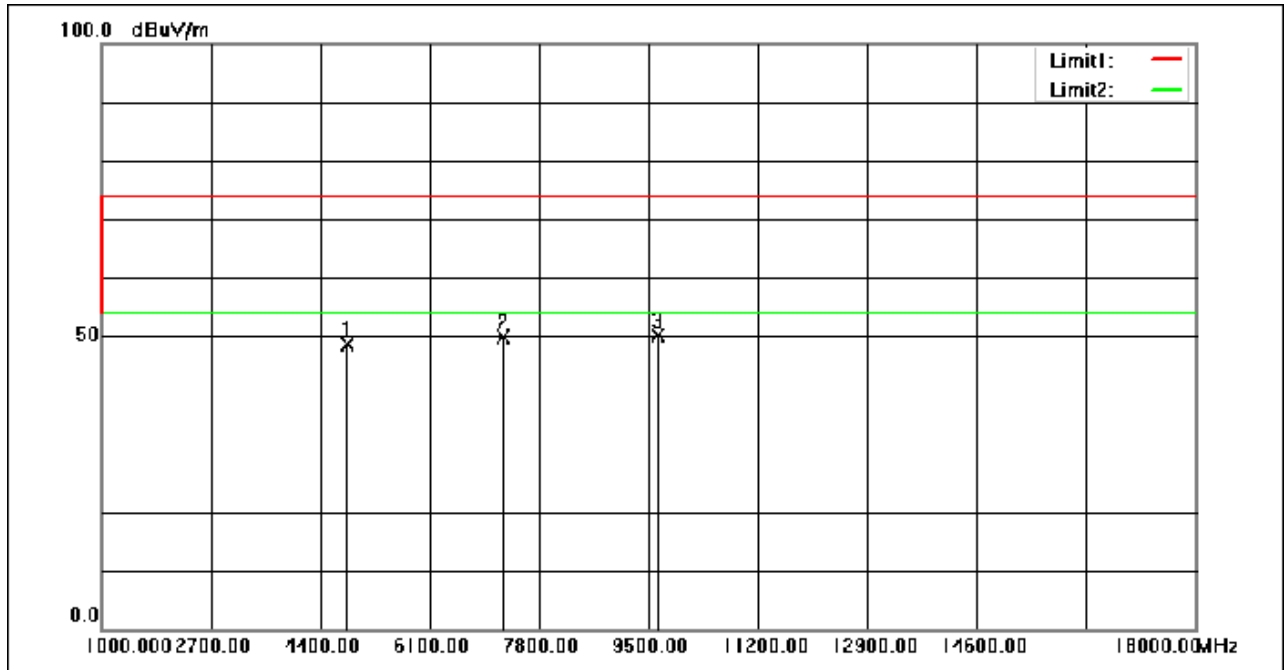
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4824.000 | 57.35 | -8.78 | 48.57 | 74.00 | -25.43 | peak |
| 2 | 7236.000 | 55.75 | -5.86 | 49.89 | 74.00 | -24.11 | peak |
| 3 | 9648.000 | 51.42 | -1.31 | 50.11 | 74.00 | -23.89 | peak |



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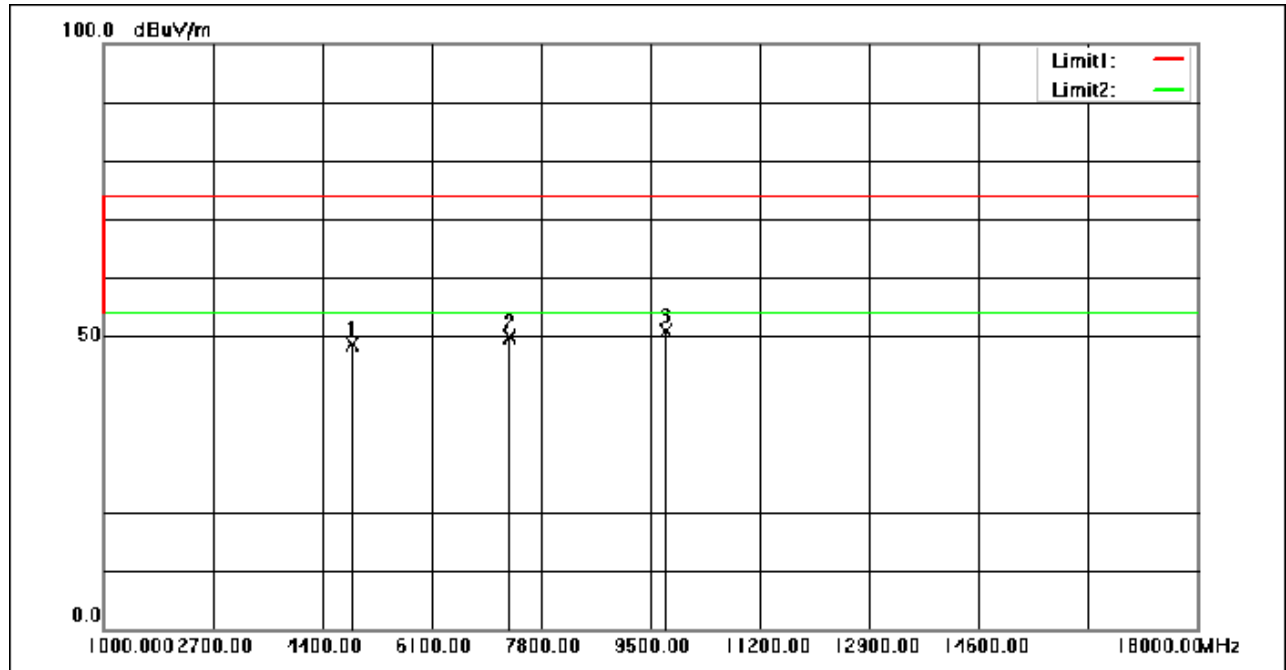
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4874.000 | 57.29 | -8.61 | 48.68 | 74.00 | -25.32 | peak |
| 2 | 7311.000 | 55.55 | -5.78 | 49.77 | 74.00 | -24.23 | peak |
| 3 | 9748.000 | 52.32 | -1.43 | 50.89 | 74.00 | -23.11 | peak |



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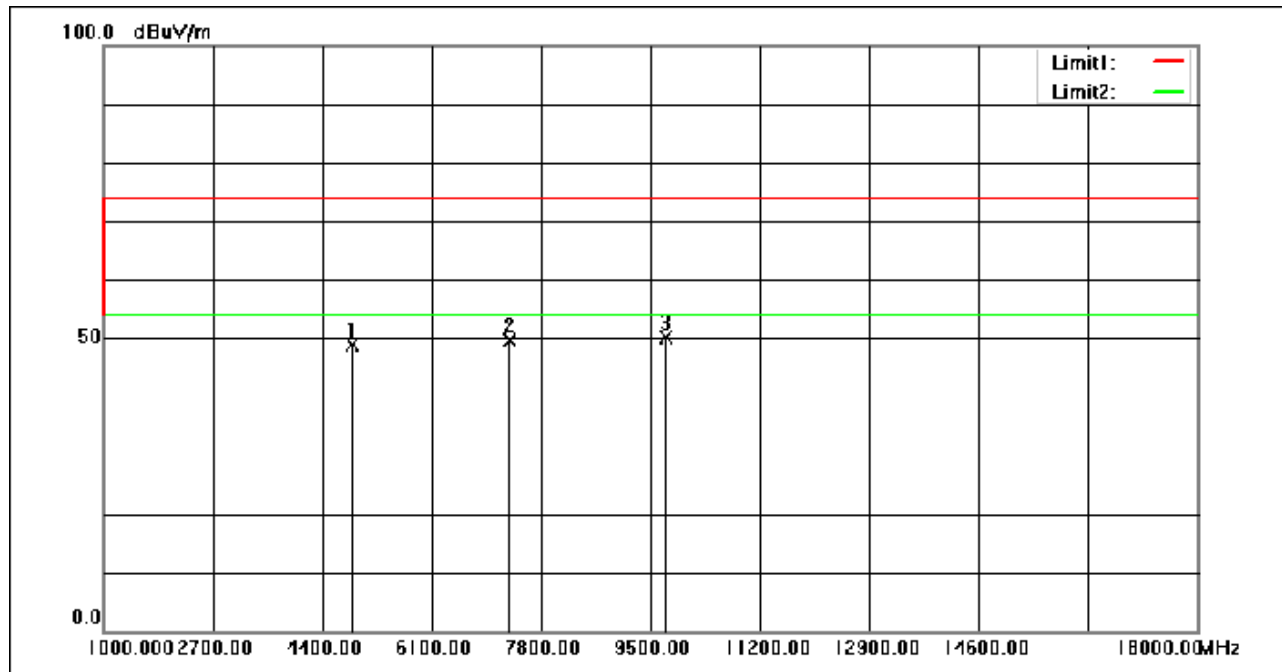
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Test Mode: 04; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4874.000 | 57.54 | -8.61 | 48.93 | 74.00 | -25.07 | peak |
| 2 | 7311.000 | 55.32 | -5.78 | 49.54 | 74.00 | -24.46 | peak |
| 3 | 9748.000 | 51.58 | -1.43 | 50.15 | 74.00 | -23.85 | peak |



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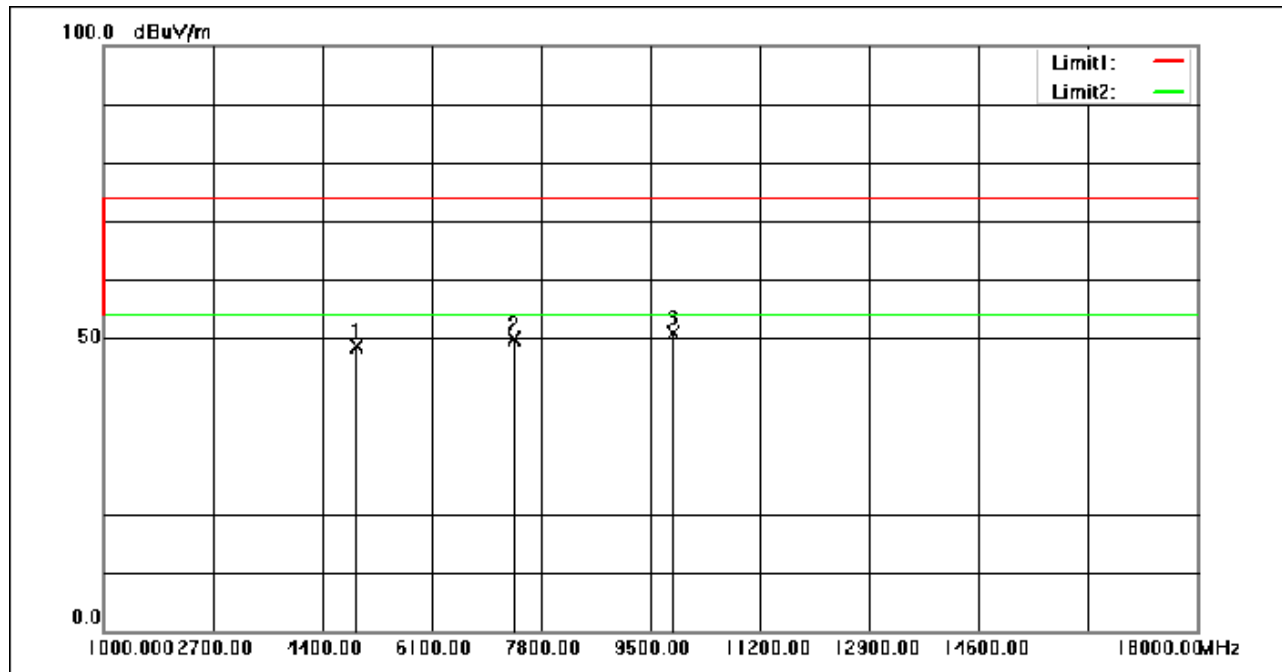
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4924.000 | 57.05 | -8.44 | 48.61 | 74.00 | -25.39 | peak |
| 2 | 7386.000 | 55.46 | -5.69 | 49.77 | 74.00 | -24.23 | peak |
| 3 | 9848.000 | 52.16 | -1.27 | 50.89 | 74.00 | -23.11 | peak |



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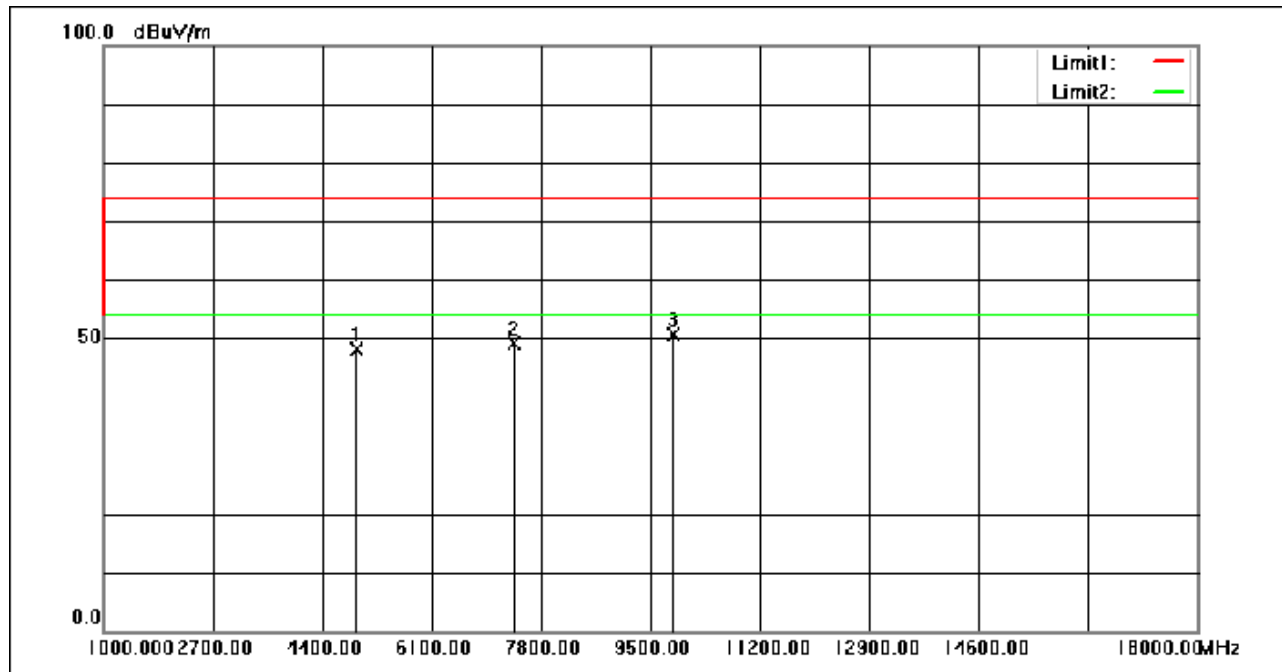
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 4924.000 | 56.64 | -8.44 | 48.20 | 74.00 | -25.80 | peak |
| 2 | 7386.000 | 54.79 | -5.69 | 49.10 | 74.00 | -24.90 | peak |
| 3 | 9848.000 | 51.84 | -1.27 | 50.57 | 74.00 | -23.43 | peak |



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2307001452AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2307001452AT

- End of the Report -

