# Test Report

| | |
|---|---|
| **Application No.:** | KSCR2206001007AT |
| **FCC ID:** | 2AXVM-HM-TP23XX |
| **IC:** | 26572-HMTP23XX |
| **Applicant:** | Hangzhou Microimage Software Co.,Ltd |
| **Address of Applicant:** | Room 313, Unit B, Building 2, 399 Danfeng Road, Xixing Subdistrict,Binjiang District, Hangzhou, Zhejiang |
| **Manufacturer:** | Hangzhou Microimage Software Co.,Ltd |
| **Address of Manufacturer:** | Room 313, Unit B, Building 2, 399 Danfeng Road, Xixing Subdistrict,Binjiang District, Hangzhou, Zhejiang |
| **Factory:** | Hangzhou Microimage Intelligent Technology Co., Ltd. |
| **Address of Factory:** | Floor 2, Building A1, 299 Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou City, Zhejiang Province |
| **Equipment Under Test (EUT):** | |
| **EUT Name:** | Handheld Thermography Camera |
| **Model No.:** | HM-TP23-10VF/W-M30,HM-TP23-10VF/W-M3OUHK,HM-TP23-10VF/W-M30CKV,HM-TP23-10VF/W-M3OUVS,HM-TP23-10VF/W-M3OKVO,HM-TP23-10VF/W-M3OHUN ♣ |
| **For IC Model:** | HM-TP23-10VF/W-M30 |
| **HVIN:** | HMTP2310VFWM30 |
| ♣ | Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical. |
| **Trade Mark:** | Hikmicro |
| **Standard(s) :** | 47 CFR Part 15, Subpart E 15.407<br>RSS-247 Issue 2, February 2017<br>RSS-Gen Issue 5 Amendment 2 (February 2021) |
| **Date of Receipt:** | 2022-06-20 |
| **Date of Test:** | 2022-06-21 to 2022-08-01 |
| **Date of Issue:** | 2022-08-02 |
| **Test Result:** | **Pass*** |

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

Eric Lin
Laboratory Manager

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| Revision Record | | | | |
|---|---|---|---|---|
| ***Version*** | ***Chapter*** | ***Date*** | ***Modifier*** | ***Remark*** |
| *01* | | *2022-08-02* | | *Original* |
| | | | | |
| | | | | |

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|---|---|---|---|---|
| **Authorized for issue by:** | | | | |
| | | Tommie Tang<br>**Tommie_Tang/Project Engineer** | | |
| | | Eric Lin<br>**Eric Lin/Reviewer** | | |

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# 2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|---|---|---|---|---|
| **Item** | **Standard** | **Method** | **Requirement** | **Result** |
| Antenna Requirement | 47 CFR Part 15, Subpart E 15.407 | N/A | 47 CFR Part 15, Subpart C 15.203 | Pass |
| Transmission in the Absence of Data | | N/A | 47 CFR Part 15, Subpart E 15.407 (c) | Pass |

| Radio Spectrum Matter Part | | | | |
|---|---|---|---|---|
| **Item** | **Standard** | **Method** | **Requirement** | **Result** |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart E 15.407 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(6) | Pass |
| Duty Cycle | | KDB 789033 II B 1 | KDB 789033 D02 II B 1 | Pass |
| 99% Bandwidth | | KDB 789033 II D | N/A | Pass |
| 26dB Emission bandwidth | | KDB 789033 D02 II C 1 | 47 CFR Part 15, Subpart E 15.407 (a) | Pass |
| Minimum 6 dB bandwidth (5.725-5.85 GHz band ) | | KDB 789033 D02 II C 2 | 47 CFR Part 15, Subpart E 15.407 (e) | Pass |
| Maximum Conducted output power | | KDB 789033 D02 II E | 47 CFR Part 15, Subpart E 15.407 (a) | Pass |
| Peak Power spectrum density | | KDB 789033 D02 II F | 47 CFR Part 15, Subpart E 15.407 (a) | Pass |
| Radiated Emissions (Above 1GHz) | | KDB 789033 D02 II G | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b) | Pass |
| Radiated Emissions which fall in the restricted bands | | KDB 789033 D02 II G | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b) | Pass |
| Radiated Emissions (Below 1GHz) | | KDB 789033 D02 II G | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b) | Pass |
| 99% Bandwidth | RSS-247 Issue 2, February 2017 | ANSI C63.10 Section 6.9.3 | RSS-Gen Section 6.7 | Pass |

**Declaration of EUT Family Grouping:**

Note: There are series models mentioned in this report, and they are the Identical in electrical and electronic characters. Only the model HM-TP23-10VF/W-M30 was tested since their differences were the model number and appearance.

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# 3 Contents

Page

1 COVER PAGE ..... 1

2 TEST SUMMARY ..... 3

3 CONTENTS ..... 4

4 GENERAL INFORMATION ..... 6

4.1 DETAILS OF E.U.T. ..... 6
4.2 POWER LEVEL SETTING USING IN TEST: ..... 7
4.3 DESCRIPTION OF SUPPORT UNITS ..... 8
4.4 MEASUREMENT UNCERTAINTY ..... 8
4.5 TEST LOCATION ..... 9
4.6 TEST FACILITY ..... 9
4.7 DEVIATION FROM STANDARDS ..... 9
4.8 ABNORMALITIES FROM STANDARD CONDITIONS ..... 9

5 EQUIPMENT LIST ..... 10

6 RADIO SPECTRUM TECHNICAL REQUIREMENT ..... 11

6.1 ANTENNA REQUIREMENT ..... 11
*6.1.1 Test Requirement: ..... 11*
*6.1.2 Conclusion ..... 11*
6.2 TRANSMISSION IN THE ABSENCE OF DATA ..... 12
*6.2.1 Test Requirement: ..... 12*
*6.2.2 Conclusion ..... 12*

7 RADIO SPECTRUM MATTER TEST RESULTS ..... 13

7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ) ..... 13
*7.1.1 E.U.T. Operation ..... 13*
*7.1.2 Test Mode Description ..... 13*
*7.1.3 Test Setup Diagram ..... 14*
*7.1.4 Measurement Procedure and Data ..... 15*
7.2 DUTY CYCLE ..... 18
*7.2.1 E.U.T. Operation ..... 18*
*7.2.2 Test Mode Description ..... 18*
*7.2.3 Test Setup Diagram ..... 19*
*7.2.4 Measurement Procedure and Data ..... 19*
7.3 99% BANDWIDTH ..... 20
*7.3.1 E.U.T. Operation ..... 20*
*7.3.2 Test Mode Description ..... 20*
*7.3.3 Test Setup Diagram ..... 21*
*7.3.4 Measurement Procedure and Data ..... 21*
7.4 26DB EMISSION BANDWIDTH ..... 22
*7.4.1 E.U.T. Operation ..... 22*
*7.4.2 Test Mode Description ..... 22*

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7.4.3 *Test Setup Diagram* ....23
7.4.4 *Measurement Procedure and Data* ....23
7.5 MINIMUM 6 DB BANDWIDTH (5.725-5.85 GHZ BAND ) ....24
7.5.1 *E.U.T. Operation* ....24
7.5.2 *Test Mode Description* ....24
7.5.3 *Test Setup Diagram* ....24
7.5.4 *Measurement Procedure and Data* ....25
7.6 MAXIMUM CONDUCTED OUTPUT POWER ....26
7.6.1 *E.U.T. Operation* ....26
7.6.2 *Test Mode Description* ....26
7.6.3 *Test Setup Diagram* ....27
7.6.4 *Measurement Procedure and Data* ....27
7.7 PEAK POWER SPECTRUM DENSITY ....28
7.7.1 *E.U.T. Operation* ....28
7.7.2 *Test Mode Description* ....28
7.7.3 *Test Setup Diagram* ....29
7.7.4 *Measurement Procedure and Data* ....29
7.8 RADIATED EMISSIONS (ABOVE 1GHZ) ....30
7.8.1 *E.U.T. Operation* ....30
7.8.2 *Test Mode Description* ....30
7.8.3 *Test Setup Diagram* ....31
7.8.4 *Measurement Procedure and Data* ....32
7.9 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS ....151
7.9.1 *E.U.T. Operation* ....151
7.9.2 *Test Mode Description* ....152
7.9.3 *Test Setup Diagram* ....153
7.9.4 *Measurement Procedure and Data* ....153
7.10 RADIATED EMISSIONS (BELOW 1GHZ) ....216
7.10.1 *E.U.T. Operation* ....216
7.10.2 *Test Mode Description* ....216
7.10.3 *Test Setup Diagram* ....217
7.10.4 *Measurement Procedure and Data* ....218
7.11 99% BANDWIDTH ....221
7.11.1 *E.U.T. Operation* ....221
7.11.2 *Test Mode Description* ....221
7.11.3 *Measurement Procedure and Data* ....222

**8 TEST SETUP PHOTO ....223**

**9 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS) ....223**

**10 APPENDIX ....224**

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# 4 General Information

## 4.1 Details of E.U.T.

| | | | | | |
|---|---|---|---|---|---|
| Power supply: | DC 5V by USB or DC 3.7V by rechargeable Li-ion battery<br>Battery Model: E097-13-1S1P26650<br>Voltage: 3.7V<br>Capacity: 5Ah<br>Energy: 18.5Wh<br>Test Voltage: AC 120V/60Hz | | | | |
| Serial Number: | J38149883 | | | | |
| Firmware Version: | V5.5.12 build 210421 | | | | |
| Cable(s): | 1*USB Cable | | | | |
| Operation Frequency: | Band | Mode | Frequency Range(MHz) | Number of channels | |
| | | | | FCC | IC |
| | UNII Band I | 802.11a/n(HT20)/ac(VHT20) | 5180-5240 | 4 | 4 |
| | | 802.11n(HT40)/ac(VHT40) | 5190-5230 | 2 | 2 |
| | | 802.11ac(VHT80) | 5210 | 1 | 1 |
| | UNII Band II-A | 802.11a/n(HT20)/ac(VHT20) | 5260-5320 | 4 | 4 |
| | | 802.11n(HT40)/ac(VHT40) | 5270-5310 | 2 | 2 |
| | | 802.11ac(VHT80) | 5290 | 1 | 1 |
| | UNII Band II-C | 802.11a/n(HT20)/ac(VHT20) | 5500-5700 | 11 | 8 |
| | | 802.11n(HT40)/ac(VHT40) | 5510-5670 | 5 | 3 |
| | | 802.11ac(VHT80) | 5530~5610 | 2 | 1 |
| | UNII Band III | 802.11a/n(HT20)/ac(VHT20) | 5745-5825 | 5 | 5 |
| | | 802.11n(HT40)/ac(VHT40) | 5755-5795 | 2 | 2 |
| | | 802.11ac(VHT80) | 5775 | 1 | 1 |
| Moudulation Type: | 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) | | | | |
| Data Rate: | 802.11a: 6/9/12/18/24/36/48/54Mbps<br>802.11n: MCS0-7<br>802.11ac: MCS0-9 | | | | |
| Channel Spacing: | 802.11a/n(HT20)/ac(VHT20): 20MHz; 802.11n(HT40)/ac(VHT40): 40MHz; 802.11ac(VHT80): 80MHz | | | | |
| DFS Function: | Slave without Radar detection | | | | |
| Antenna Type: | FPC Antenna | | | | |
| Antenna Gain: | 5150-5250MHz: 0.05dBi, (Provided by the manufacturer)<br>5250-5350MHz: 0.35dBi, (Provided by the manufacturer)<br>5470-5725MHz: 1.79dBi, (Provided by the manufacturer)<br>5725-5850MHz: 1.3dBi, (Provided by the manufacturer) | | | | |

Remark: Frequencies 5600-5650MHz will not be used in Canada.

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## 4.2 Power level setting using in test:

| Channel | 802.11a | 802.11n(HT20) | 802.11ac(VHT20) |
|---|---|---|---|
| | Ant 1 | Ant 1 | Ant 1 |
| 36 | 0 | 0 | 0 |
| 40 | 0 | 0 | 0 |
| 48 | 0 | 0 | 0 |
| 52 | 0 | 0 | 0 |
| 60 | 0 | 0 | 0 |
| 64 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 |
| 116 | 0 | 0 | 0 |
| 140 | 0 | 0 | 0 |
| 149 | 0 | 0 | 0 |
| 157 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 |

| Channel | 802.11n(HT40) | 802.11ac(VHT40) |
|---|---|---|
| | Ant 1 | Ant 1 |
| 38 | 0 | 0 |
| 46 | 0 | 0 |
| 54 | 0 | 0 |
| 62 | 0 | 0 |
| 102 | 0 | 0 |
| 110 | 0 | 0 |
| 134 | 0 | 0 |
| 149 | 0 | 0 |
| 151 | 0 | 0 |
| 159 | 0 | 0 |

| Channel | 802.11ac(VHT80) |
|---|---|
| | Ant 1 |
| 42 | 0 |
| 58 | 0 |
| 106 | 0 |
| 155 | 0 |

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## 4.3 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|---|---|---|---|
| Notebook | LENOVO | K27 | / |
| SecureCRT | VanDyke | V 6.2.0 | / |
| Serial port adapter plate | / | / | / |
| Switching Adapter | HOIOTO | ADS-26SGP-12 12024E | / |

## 4.4 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|---|---|---|
| 1 | Radio Frequency | $8.4 \times 10^{-8}$ |
| 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.

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## 4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation Park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

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:

**• CNAS**

Compliance Certification Services (Kunshan) Inc. is accredited by the China National Accreditation Service for Conformity Assessment (CNAS). Registration No. CNAS L4354

**• A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

**• FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

**• ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

**• VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

## 4.7 Deviation from Standards

None

## 4.8 Abnormalities from Standard Conditions

None

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# 5 Equipment List

| Item | Equipment | Manufacturer | Model | Inventory No | Cal Date | Cal. Due Date |
|---|---|---|---|---|---|---|
| **Conducted Emission at Mains Terminals (150kHz-30MHz)** | | | | | | |
| 1 | EMI Test Receive | R&S | ESCI | KS301101 | 01/22/2022 | 01/21/2023 |
| 2 | LISN | R&S | ENV216 | KS301197 | 01/22/2022 | 01/21/2023 |
| 3 | LISN | Schwarzbeck | NNLK 8129 | KS301091 | 01/22/2022 | 01/21/2023 |
| 4 | Pulse Limiter | R&S | ESH3-Z2 | KUS1902E001 | 01/22/2022 | 01/21/2023 |
| 5 | CE test Cable | Thermax | / | CZ301102 | 11/14/2021 | 11/13/2022 |
| 6 | Test Software | Farad | EZ-EMC | / | N.C.R | N.C.R |
| **RF Conducted Test** | | | | | | |
| 1 | Spectrum Analyzer | Keysight | N9020A | KUS1911E004-2 | 10/11/2021 | 10/10/2022 |
| 2 | Spectrum Analyzer | Keysight | N9020A | KUS2001M001-2 | 09/17/2021 | 09/16/2022 |
| 3 | Spectrum Analyzer | Keysight | N9030B | KSEM021-1 | 01/22/2022 | 01/21/2023 |
| 4 | Signal Generator | R&S | SMW200A | KSEM020-1 | 10/12/2021 | 10/11/2022 |
| 5 | Signal Generator | Agilent | N5182A | KUS2001M001-1 | 08/27/2021 | 08/26/2022 |
| 6 | Radio Communication Test Station | Anritsu | MT8000A | KSEM001-1 | 09/23/2021 | 09/22/2022 |
| 7 | Radio Communication Analyzer | Anritsu | MT8821C | KSEM002-1 | 04/01/2022 | 03/31/2023 |
| 8 | Universal Radio Communication Tester | R&S | CMW500 | KUS1911E004-1 | 10/12/2021 | 10/11/2022 |
| 9 | Switcher | CCSRF | FY562 | KUS2001M001-3 | 10/12/2021 | 10/11/2022 |
| 10 | AC Power Source | EXTECH | 6605 | KS301178 | N.C.R | N.C.R |
| 11 | DC Power Supply | Aglient | E3632A | KS301180 | N.C.R | N.C.R |
| 12 | Conducted Test Cable | Thermax | RF01-RF04 | CZ301111-CZ301120 | 01/16/2022 | 01/15/2023 |
| 13 | Temp. / Humidity Chamber | TERCHY | MHK-120AK | KS301190 | 04/01/2021 | 03/31/2023 |
| 14 | Temperature & Humidity Recorder | Renke Control | RS-WS-N01-6J | KSEM024-5 | 04/01/2021 | 03/31/2023 |
| 15 | Software | BST | TST-PASS | / | N/A | N/A |
| **RF Radiated Test** | | | | | | |
| 1 | Spectrum Analyzer | R&S | FSV40 | KUS1806E003 | 10/11/2021 | 10/10/2022 |
| 2 | Universal Radio Communication Tester | R&S | CMW500 | KSEM009-1 | 04/01/2022 | 03/31/2023 |
| 3 | Signal Generator | Agilent | E8257C | KS301066 | 10/18/2021 | 10/17/2022 |
| 4 | Loop Antenna | COM-POWER | AL-130R | KUS1806E001 | 04/13/2021 | 04/12/2023 |
| 5 | Bilog Antenna | TESEQ | CBL 6112D | KUS1806E005 | 06/29/2021 | 06/28/2023 |
| 6 | Bilog Antenna | SCHWARZBECK | VULB9160 | CZ301016 | 04/13/2021 | 04/12/2024 |
| 7 | Horn-antenna(1-18GHz) | Schwarzbeck | BBHA9120D | KS301079 | 10/26/2020 | 10/25/2022 |
| 8 | Horn-antenna(1-18GHz) | ETS-LINDGREN | 3117 | KS301186 | 02/22/2021 | 02/21/2023 |
| 9 | Horn Antenna(18-40GHz) | Schwarzbeck | BBHA9170 | CZ301058 | 03/22/2022 | 03/21/2023 |
| 10 | Amplifier(30MHz~18GHz) | PANSHAN TECHNOLOGY | LNA:1~18G | KSEM010-1 | 01/22/2022 | 01/21/2023 |
| 11 | Amplifier(18~40GHz) | COM-POWER | PAM-840A | KUS1710E001 | 01/22/2022 | 01/21/2023 |
| 12 | RE Test Cable | REBES MICROWAVE | / | CZ301097 | 11/14/2021 | 11/13/2022 |
| 13 | Temperature & Humidity Recorder | Renke Control | RS-WS-N01-6J | KSEM024-4 | 01/04/2022 | 31/03/2023 |
| 14 | Software | Faratronic | EZ_EMC-v 3A1 | / | N/A | N/A |

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# 6 Radio Spectrum Technical Requirement

## 6.1 Antenna Requirement

### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

### 6.1.2 Conclusion

Standard Requirement:

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

EUT Antenna:

The antenna is FPC antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.05dBi for 5150-5250MHz, 0.35dBi for 5250-5350MHz, 1.79dBi for 5470-5725MHz, 1.3dBi for 5725-5850MHz.

Antenna location: Refer to internal photo.

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## 6.2 Transmission in the Absence of Data

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

### 6.2.2 Conclusion

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.

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# 7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(6)
Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

| Frequency of emission(MHz) | Conducted limit(dB μV) | |
|---|---|---|
| | 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. | | |

### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 49.6 % RH Atmospheric Pressure: 1010 mbar

### 7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 01 | Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 03 | Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type |

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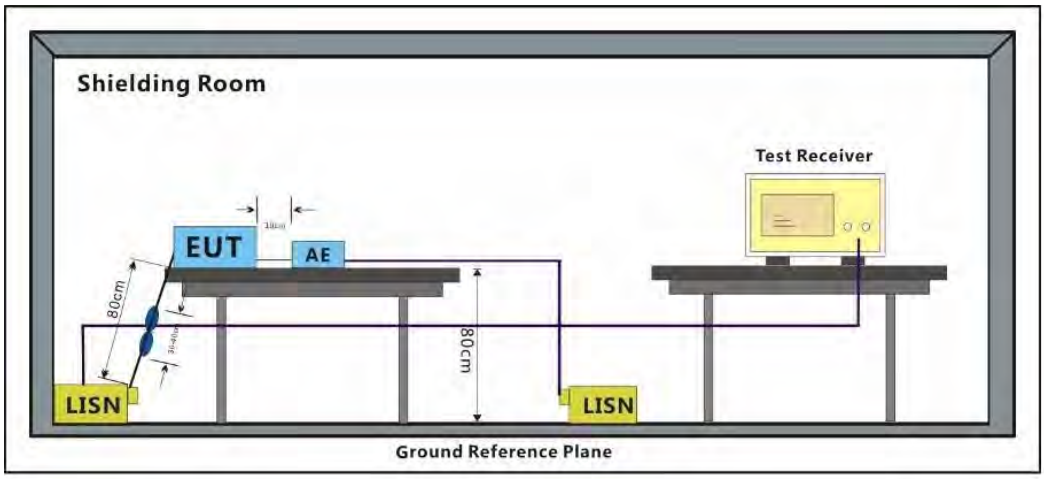
| | | |
|---|---|---|
| | | have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 04 | Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

### 7.1.3 Test Setup Diagram

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### 7.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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

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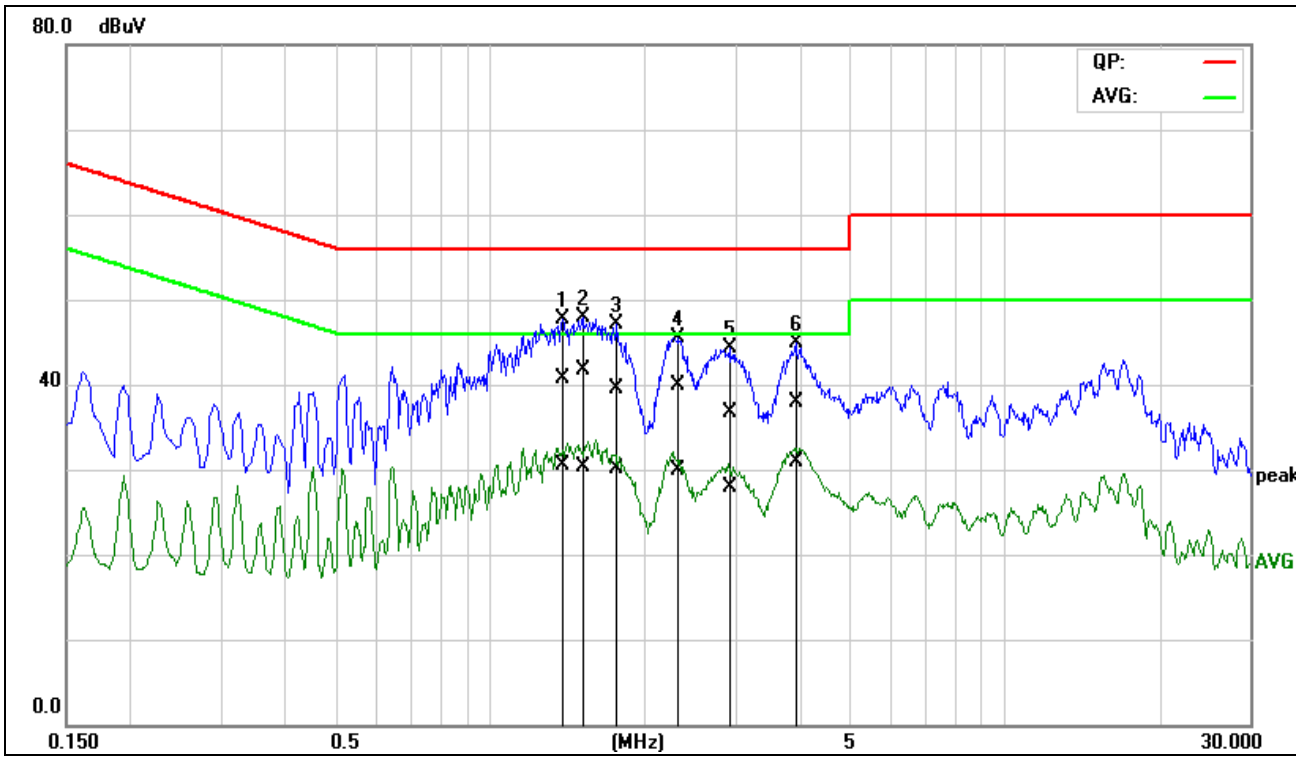
Test Mode: 01; Line: Live line




| No. | Frequency | QuasiPeak reading | Average reading | Correction factor | QuasiPeak result | Average result | QuasiPeak limit | Average limit | QuasiPeak margin | Average margin | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dBuV) | (dBuV) | (dB) | (dB) | |
| 1 | 1.3820 | 21.05 | 10.80 | 19.62 | 40.67 | 30.42 | 56.00 | 46.00 | -15.33 | -15.58 | Pass |
| 2* | 1.5150 | 22.03 | 10.77 | 19.62 | 41.65 | 30.39 | 56.00 | 46.00 | -14.35 | -15.61 | Pass |
| 3 | 1.7599 | 19.79 | 10.50 | 19.63 | 39.42 | 30.13 | 56.00 | 46.00 | -16.58 | -15.87 | Pass |
| 4 | 2.3197 | 20.15 | 10.33 | 19.67 | 39.82 | 30.00 | 56.00 | 46.00 | -16.18 | -16.00 | Pass |
| 5 | 2.8725 | 17.10 | 8.28 | 19.70 | 36.80 | 27.98 | 56.00 | 46.00 | -19.20 | -18.02 | Pass |
| 6 | 3.8907 | 18.16 | 11.19 | 19.76 | 37.92 | 30.95 | 56.00 | 46.00 | -18.08 | -15.05 | Pass |

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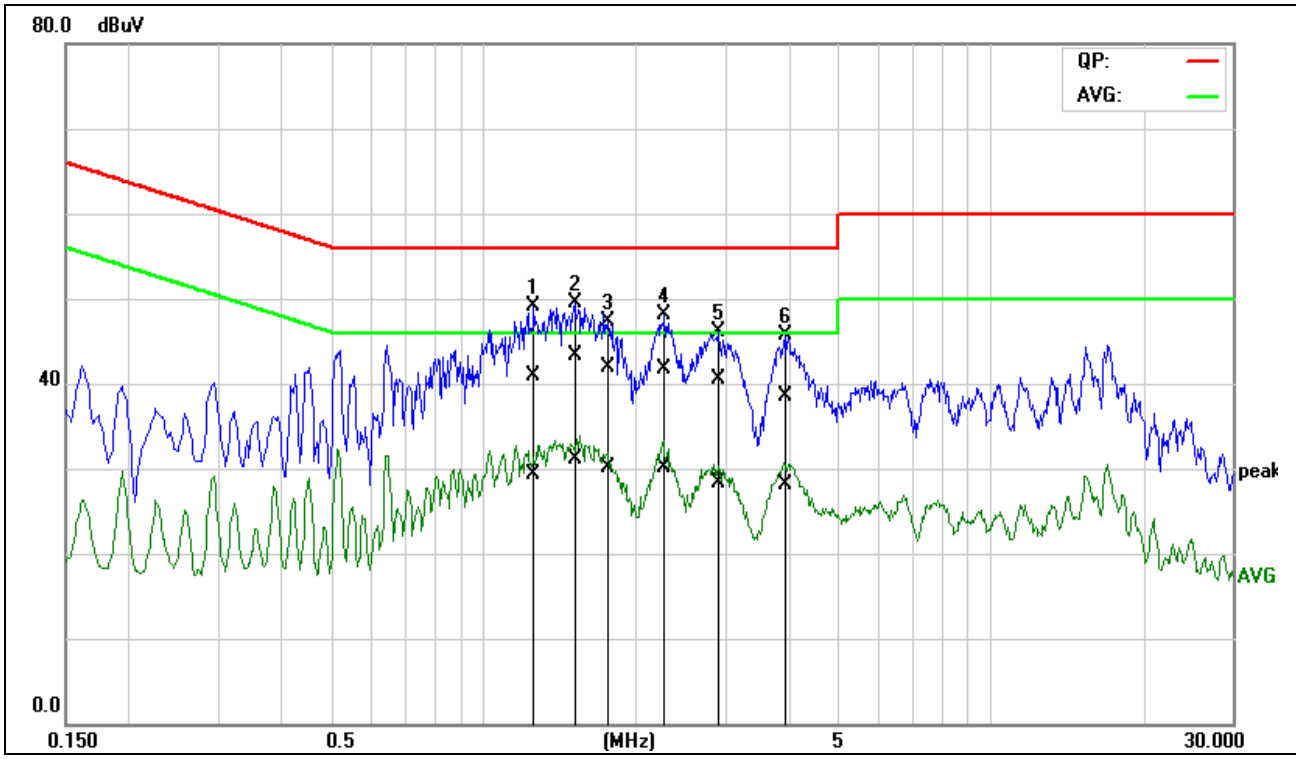
Test Mode: 01; Line: Neutral Line




| No. | Frequency | QuasiPeak reading | Average reading | Correction factor | QuasiPeak result | Average result | QuasiPeak limit | Average limit | QuasiPeak margin | Average margin | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dBuV) | (dBuV) | (dB) | (dB) | |
| 1 | 1.2657 | 21.38 | 9.60 | 19.61 | 40.99 | 29.21 | 56.00 | 46.00 | -15.01 | -16.79 | Pass |
| 2* | 1.5140 | 23.63 | 11.39 | 19.62 | 43.25 | 31.01 | 56.00 | 46.00 | -12.75 | -14.99 | Pass |
| 3 | 1.7699 | 22.30 | 10.42 | 19.63 | 41.93 | 30.05 | 56.00 | 46.00 | -14.07 | -15.95 | Pass |
| 4 | 2.2801 | 21.97 | 10.34 | 19.67 | 41.64 | 30.01 | 56.00 | 46.00 | -14.36 | -15.99 | Pass |
| 5 | 2.9014 | 20.84 | 8.54 | 19.71 | 40.55 | 28.25 | 56.00 | 46.00 | -15.45 | -17.75 | Pass |
| 6 | 3.8969 | 18.81 | 8.29 | 19.76 | 38.57 | 28.05 | 56.00 | 46.00 | -17.43 | -17.95 | Pass |

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## 7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1
Test Method: KDB 789033 II B 1

### 7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 23.7 °C Humidity: 49.6 % RH Atmospheric Pressure: 1010 mbar

### 7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 01 | Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 03 | Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 04 | Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), 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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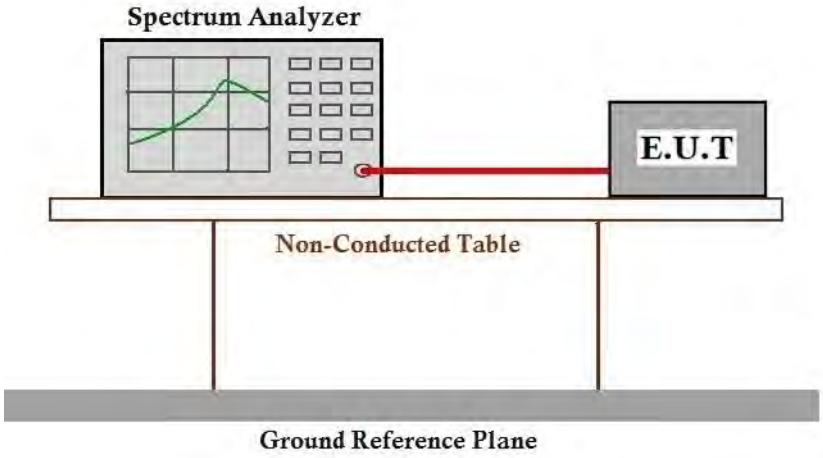
### 7.2.3 Test Setup Diagram




### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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## 7.3 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 49.6 % RH Atmospheric Pressure: 1010 mbar

### 7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 01 | Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 03 | Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 04 | Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), 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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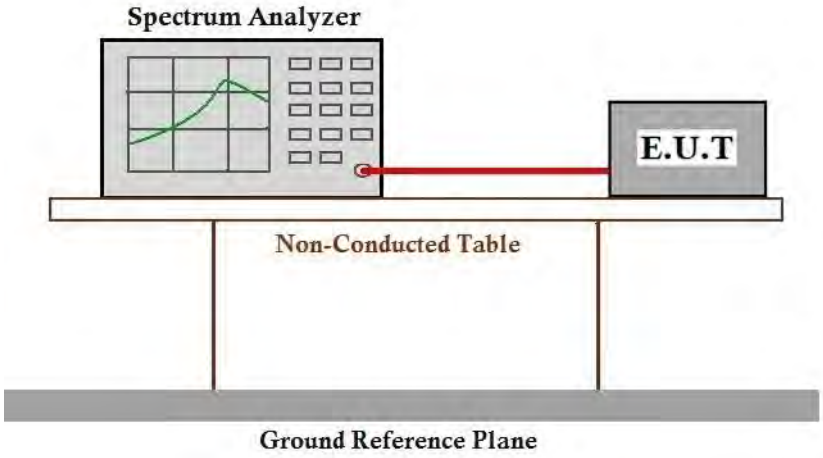
### 7.3.3 Test Setup Diagram




### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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## 7.4 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
Test Method: KDB 789033 D02 II C 1

### 7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 23.7 °C Humidity: 49.5 % RH Atmospheric Pressure: 1010 mbar

### 7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 01 | Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 03 | Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), 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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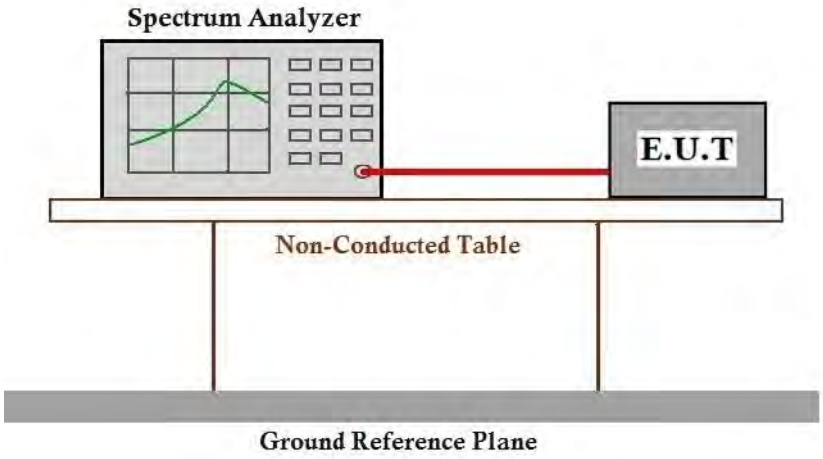
### 7.4.3 Test Setup Diagram




### 7.4.4 Measurement Procedure and Data

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## 7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band )

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)
Test Method: KDB 789033 D02 II C 2

Limit:

| Frequency band(MHz) | Limit |
|---|---|
| 5725-5850 | ⩾500 kHz |

### 7.5.1 E.U.T. Operation

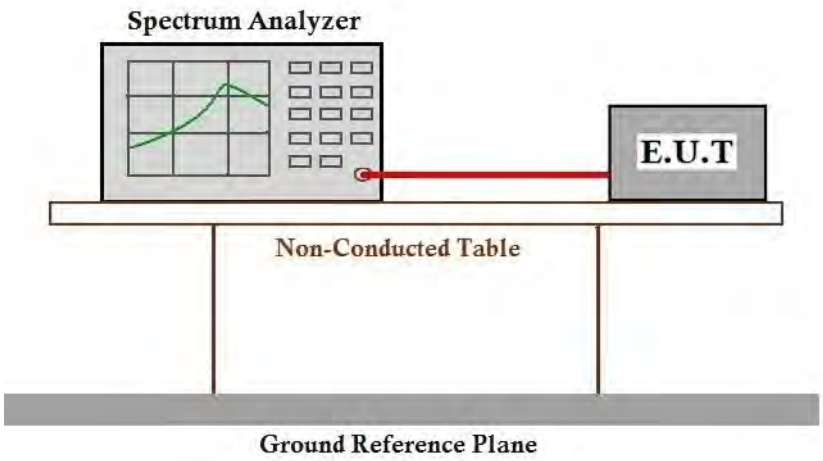
Operating Environment:

Temperature: 23.7 °C Humidity: 49.5 % RH Atmospheric Pressure: 1010 mbar

### 7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 04 | Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

### 7.5.3 Test Setup Diagram

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### 7.5.4 Measurement Procedure and Data

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## 7.6 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
Test Method: KDB 789033 D02 II E

Limit:

| Frequency band(MHz) | Limit |
|---|---|
| 5150-5250 | ≤1W(30dBm) for master device |
| | ≤250mW(24dBm) for client device |
| 5250-5350 | ≤250mW(24dBm) for client device or 11dBm+10logB* |
| 5470-5725 | ≤250mW(24dBm) for client device or 11dBm+10logB* |
| 5725-5850 | ≤1W(30dBm) |
| Remark: | * Where B is the 26dB emission bandwidth in MHz.<br>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. |

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 49.5 % RH Atmospheric Pressure: 1010 mbar

### 7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 01 | Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data |

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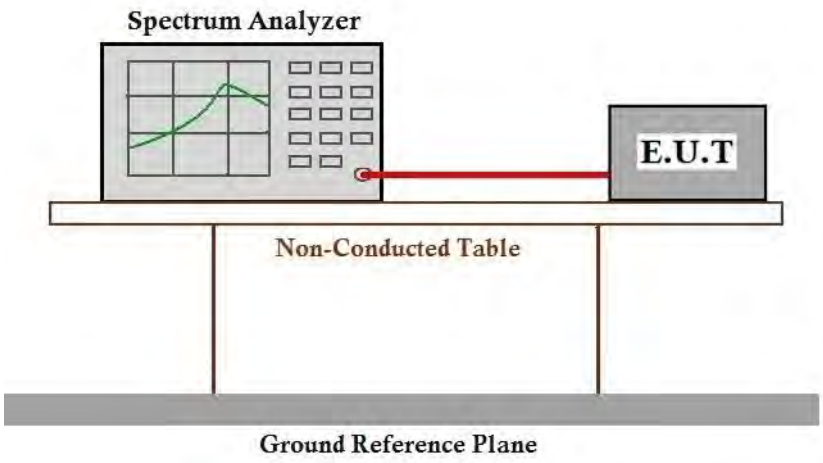
| | | |
|---|---|---|
| | | of worst case is recorded in the report. |
| Final test | 03 | Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 04 | Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

### 7.6.3 Test Setup Diagram




### 7.6.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

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## 7.7 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
Test Method: KDB 789033 D02 II F

Limit:

| Frequency band(MHz) | Limit |
|---|---|
| 5150-5250 | ≤17dBm in 1MHz for master device |
| | ≤11dBm in 1MHz for client device |
| 5250-5350 | ≤11dBm in 1MHz for client device |
| 5470-5725 | ≤11dBm in 1MHz for client device |
| 5725-5850 | ≤30dBm in 500 kHz |
| Remark: | The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. |

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 49.5 % RH Atmospheric Pressure: 1010 mbar

### 7.7.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 01 | Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 03 | Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE |

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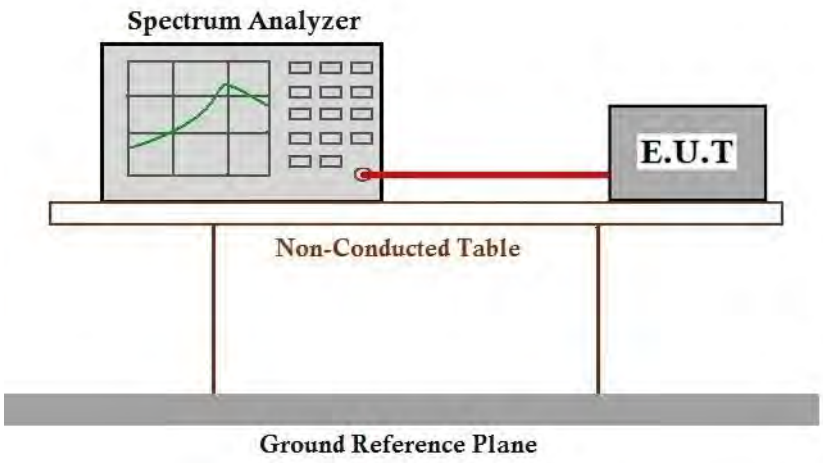
| | | |
|---|---|---|
| | | 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 04 | Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

### 7.7.3 Test Setup Diagram




### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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## 7.8 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
Test Method: KDB 789033 D02 II G

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|---|---|---|
| Above 1GHz | 500 | 3 |

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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.

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 50.7 % RH Atmospheric Pressure: 1010 mbar

### 7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 01 | Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE |

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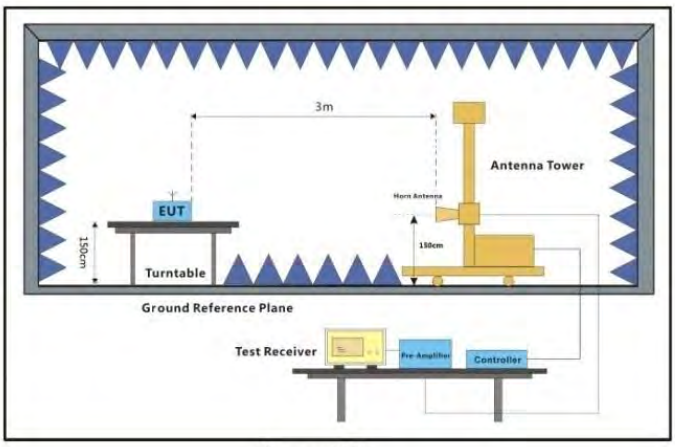
| | | |
|---|---|---|
| | | 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 03 | Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 04 | Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

### 7.8.3 Test Setup Diagram




Above 1GHz

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### 7.8.4 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 18GHz to 40GHz, 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. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

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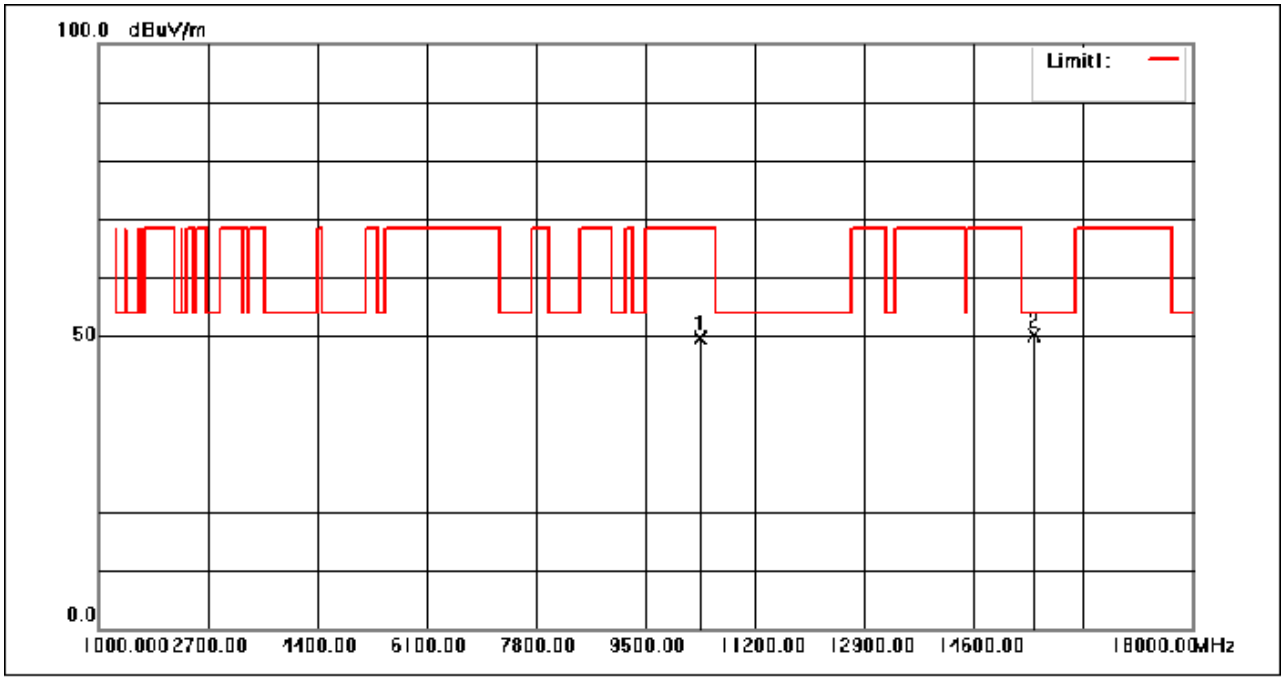
Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10360.000 | 49.53 | 0.16 | 49.69 | 68.30 | -18.61 | peak |
| 2 | 15540.000 | 44.47 | 5.73 | 50.20 | 54.00 | -3.80 | peak |

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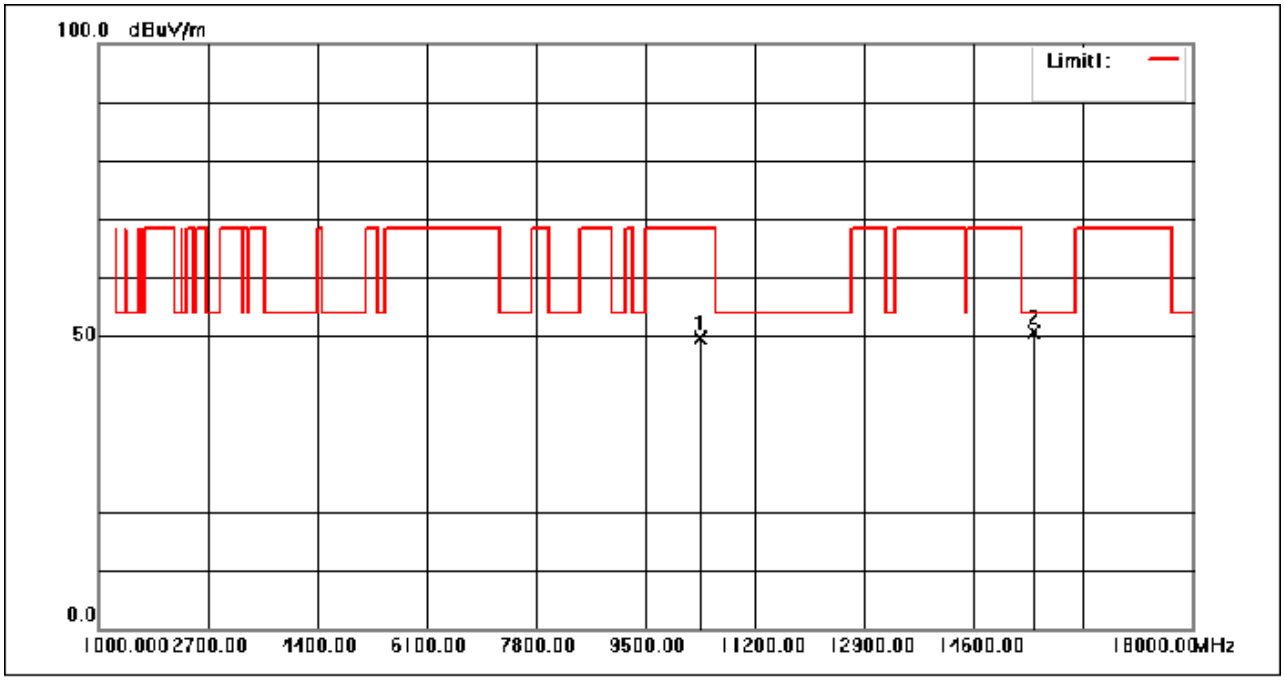
Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10360.000 | 49.43 | 0.16 | 49.59 | 68.30 | -18.71 | peak |
| 2 | 15540.000 | 45.00 | 5.73 | 50.73 | 54.00 | -3.27 | peak |

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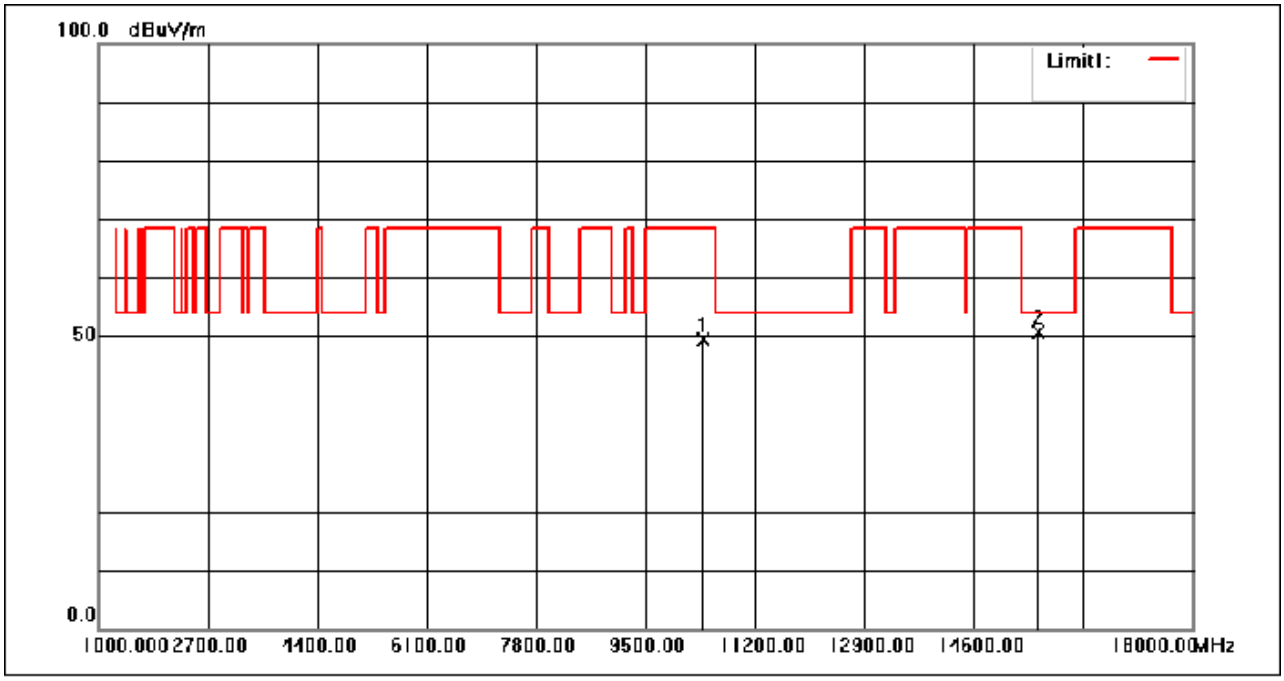
Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10400.000 | 49.20 | 0.24 | 49.44 | 68.30 | -18.86 | peak |
| 2 | 15600.000 | 44.83 | 5.85 | 50.68 | 54.00 | -3.32 | peak |

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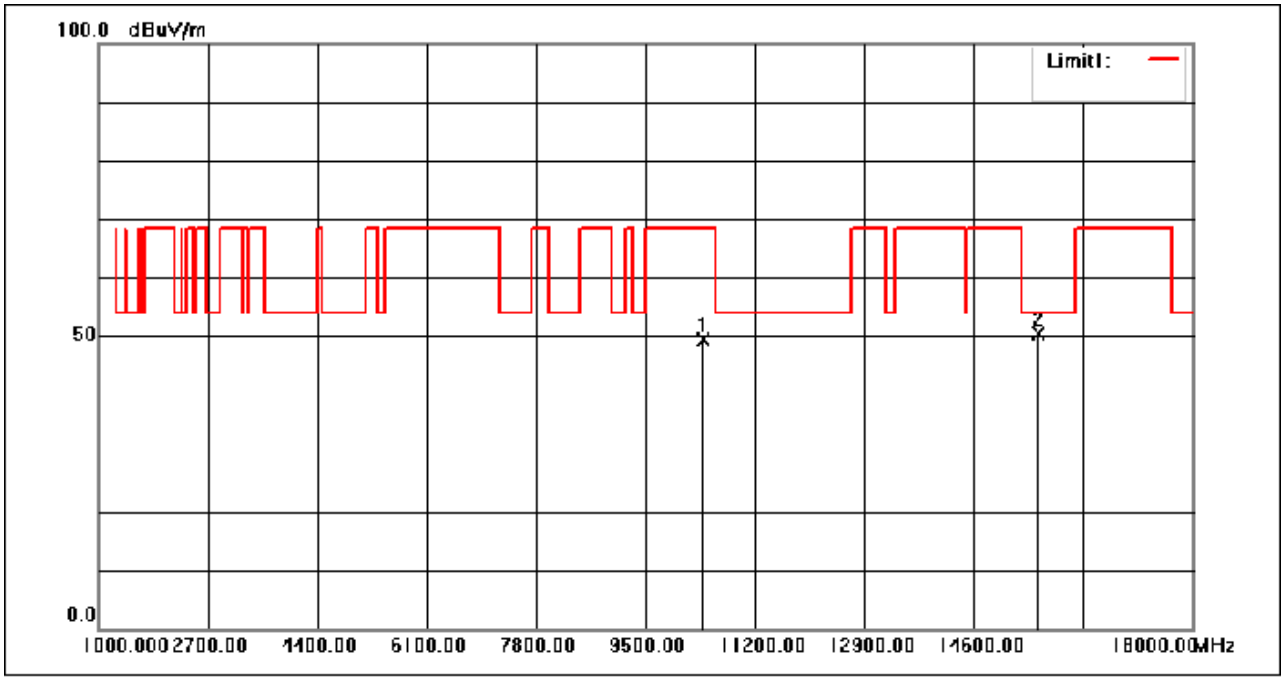
Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10400.000 | 49.20 | 0.24 | 49.44 | 68.30 | -18.86 | peak |
| 2 | 15600.000 | 44.65 | 5.85 | 50.50 | 54.00 | -3.50 | peak |

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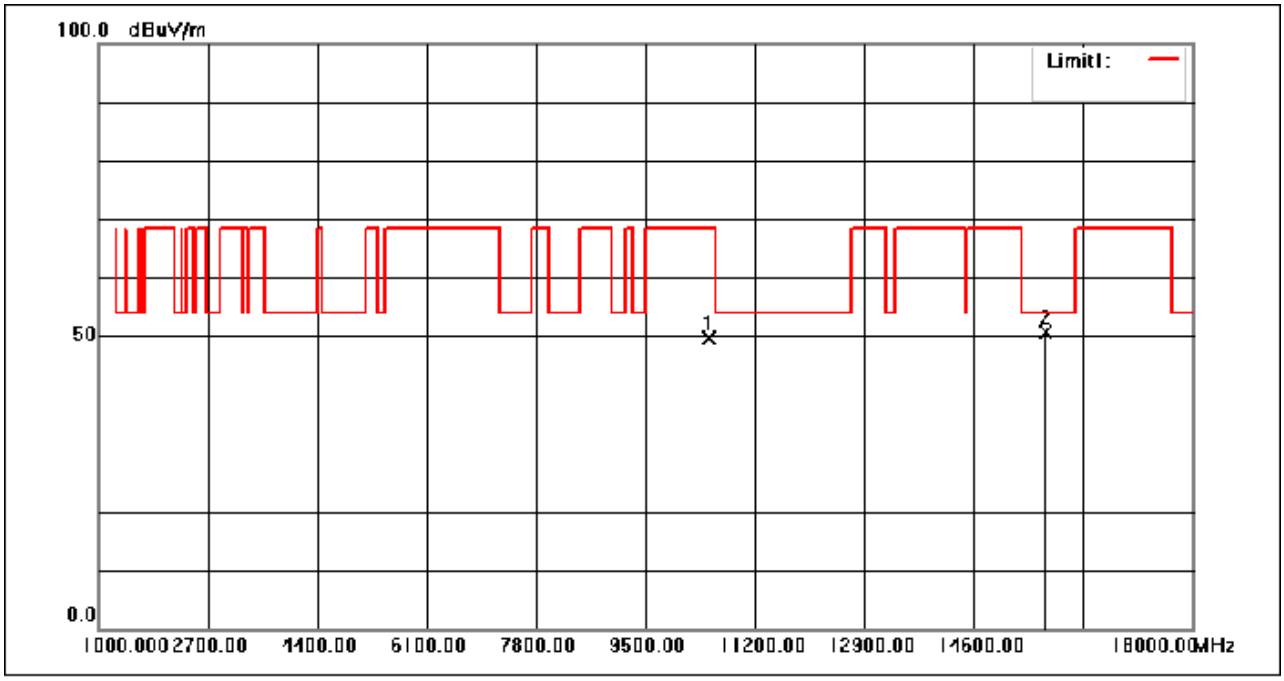
Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10480.000 | 49.29 | 0.40 | 49.69 | 68.30 | -18.61 | peak |
| 2 | 15720.000 | 44.43 | 6.10 | 50.53 | 54.00 | -3.47 | peak |

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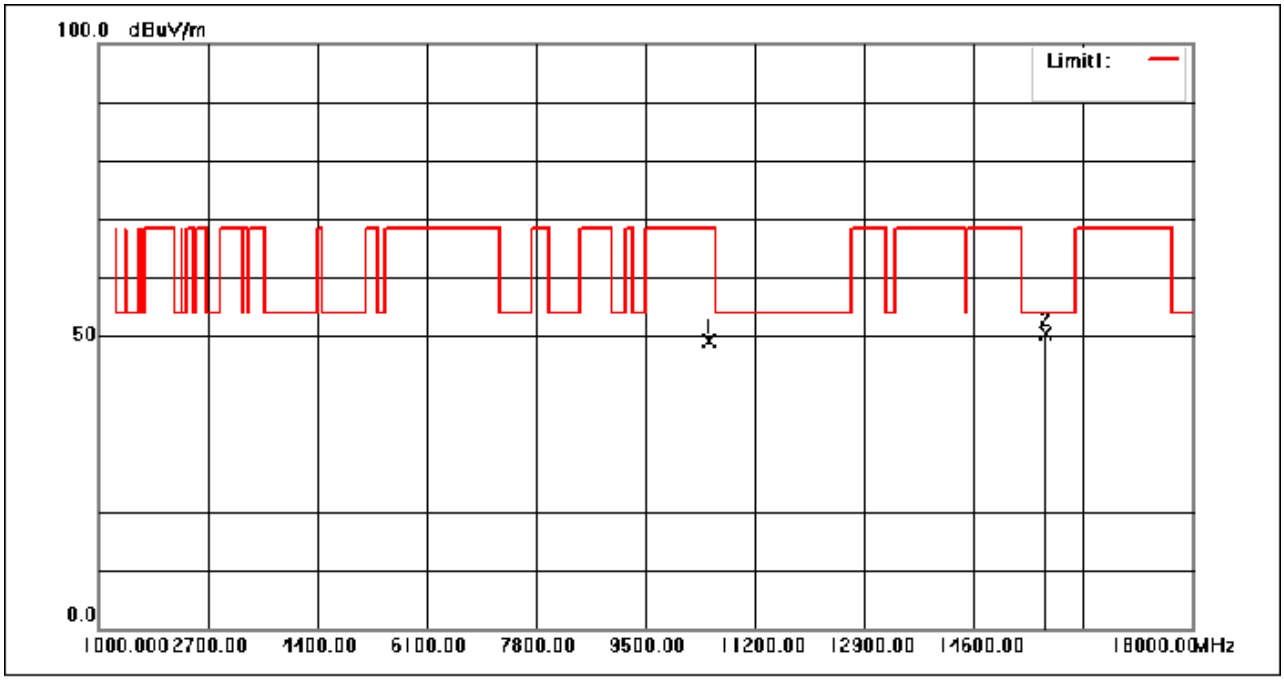
Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10480.000 | 48.66 | 0.40 | 49.06 | 68.30 | -19.24 | peak |
| 2 | 15720.000 | 44.33 | 6.10 | 50.43 | 54.00 | -3.57 | peak |

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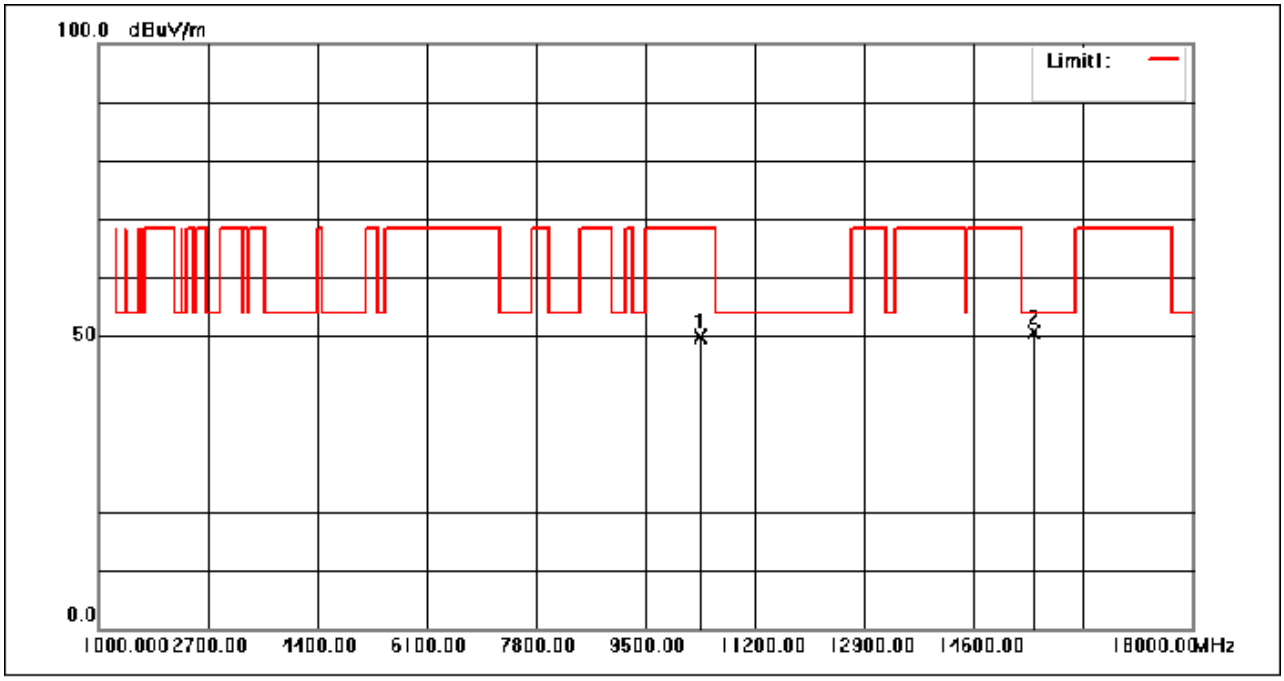
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10360.000 | 49.80 | 0.16 | 49.96 | 68.30 | -18.34 | peak |
| 2 | 15540.000 | 44.84 | 5.73 | 50.57 | 54.00 | -3.43 | peak |

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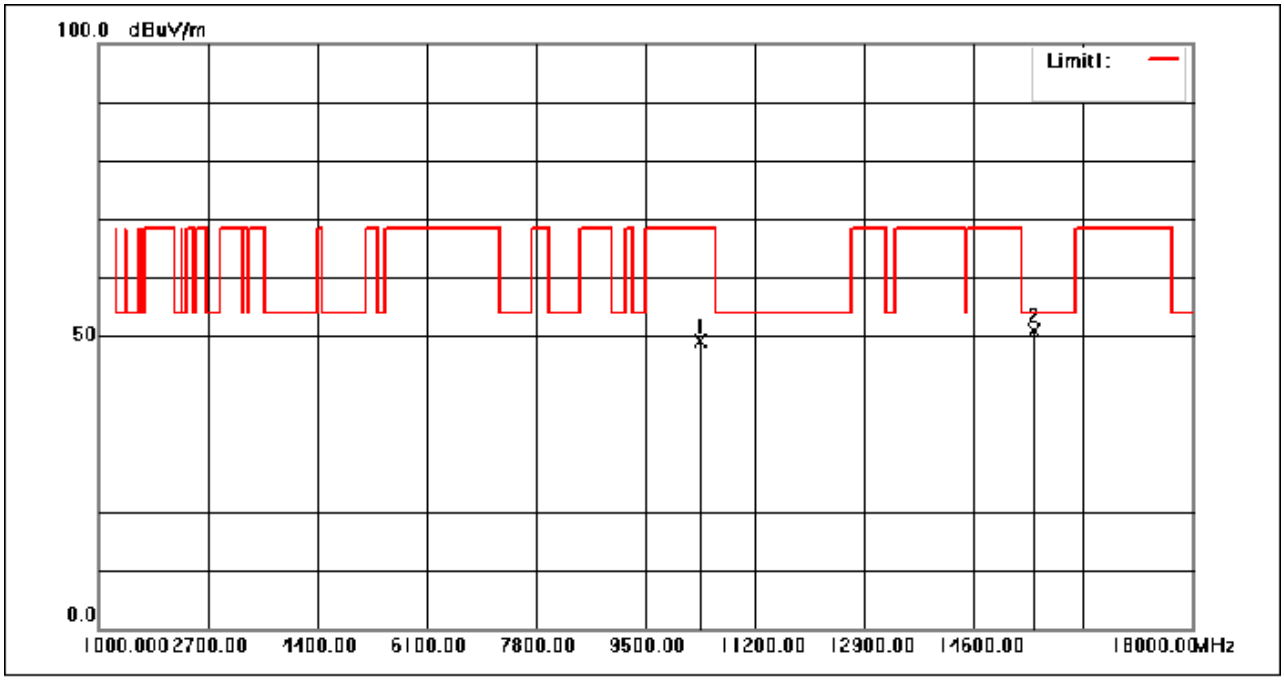
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10360.000 | 49.08 | 0.16 | 49.24 | 68.30 | -19.06 | peak |
| 2 | 15540.000 | 45.15 | 5.73 | 50.88 | 54.00 | -3.12 | peak |

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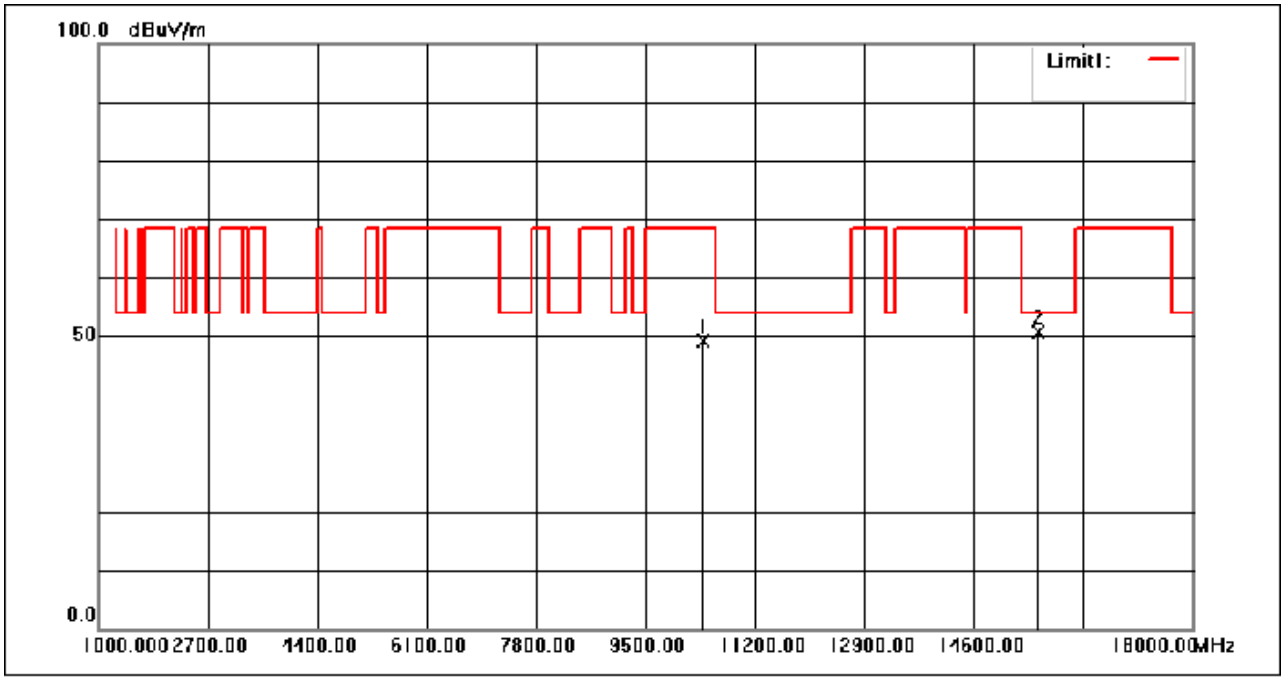
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10400.000 | 48.77 | 0.24 | 49.01 | 68.30 | -19.29 | peak |
| 2 | 15600.000 | 44.76 | 5.85 | 50.61 | 54.00 | -3.39 | peak |

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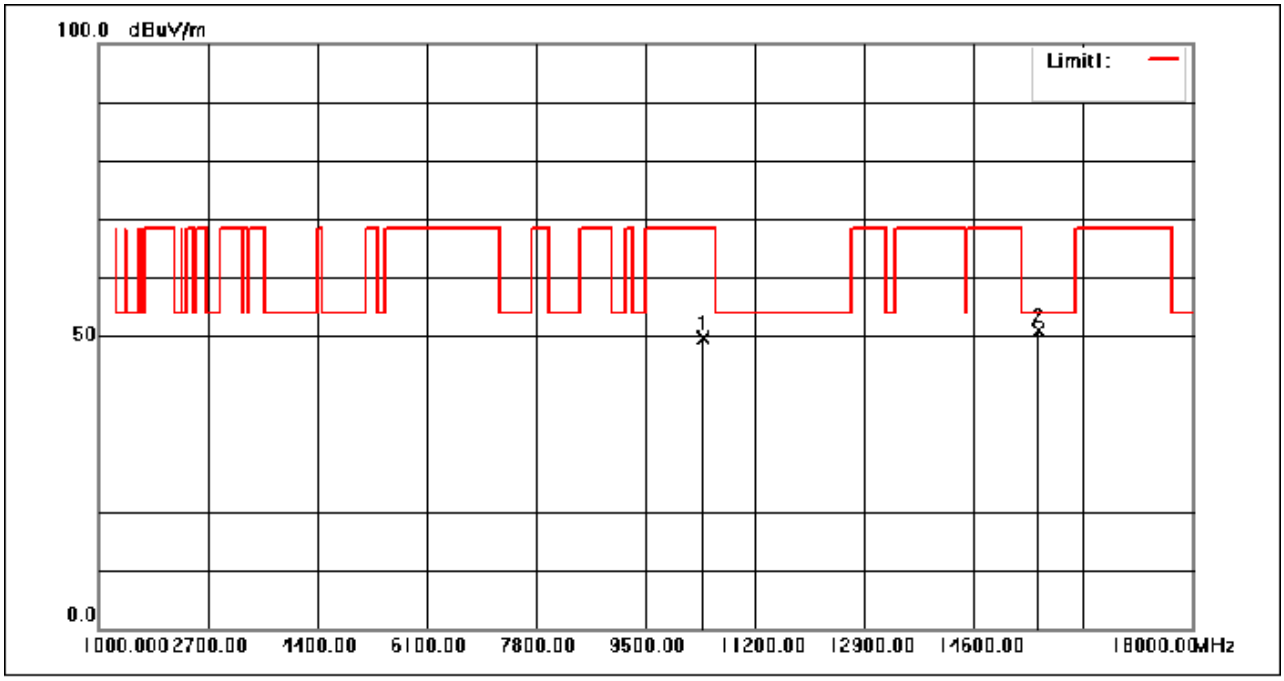
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10400.000 | 49.32 | 0.24 | 49.56 | 68.30 | -18.74 | peak |
| 2 | 15600.000 | 45.09 | 5.85 | 50.94 | 54.00 | -3.06 | peak |

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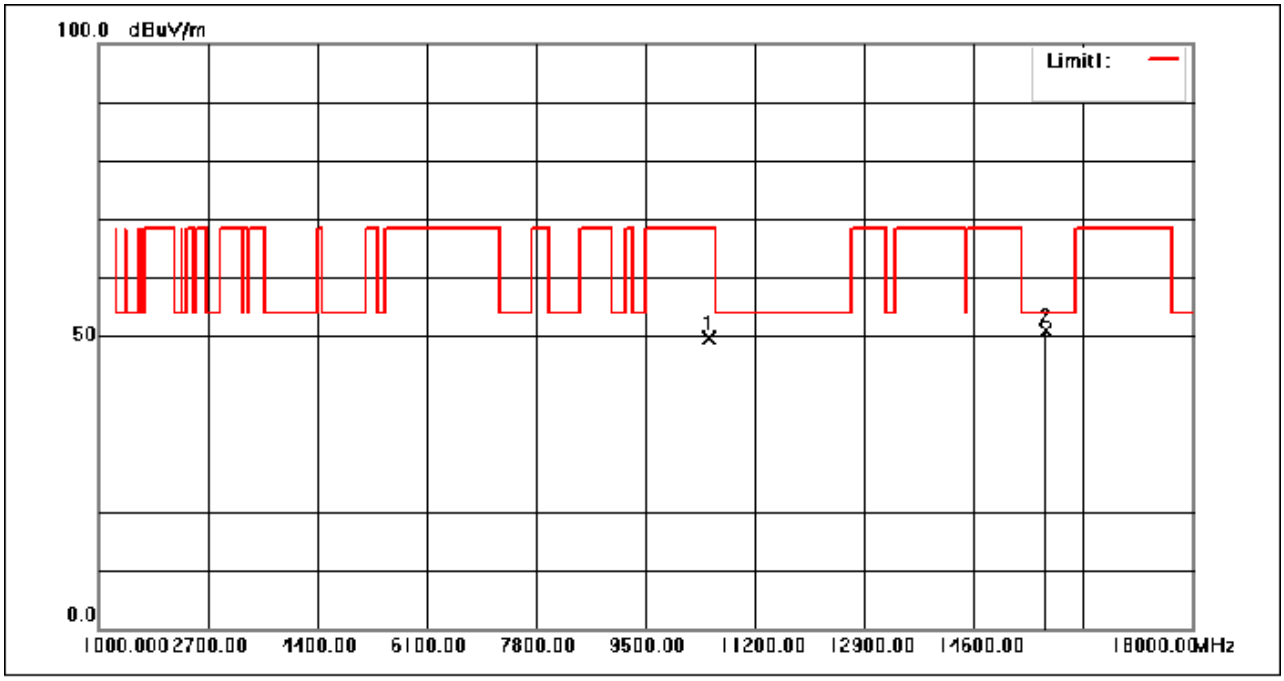
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10480.000 | 49.26 | 0.40 | 49.66 | 68.30 | -18.64 | peak |
| 2 | 15720.000 | 44.68 | 6.10 | 50.78 | 54.00 | -3.22 | peak |

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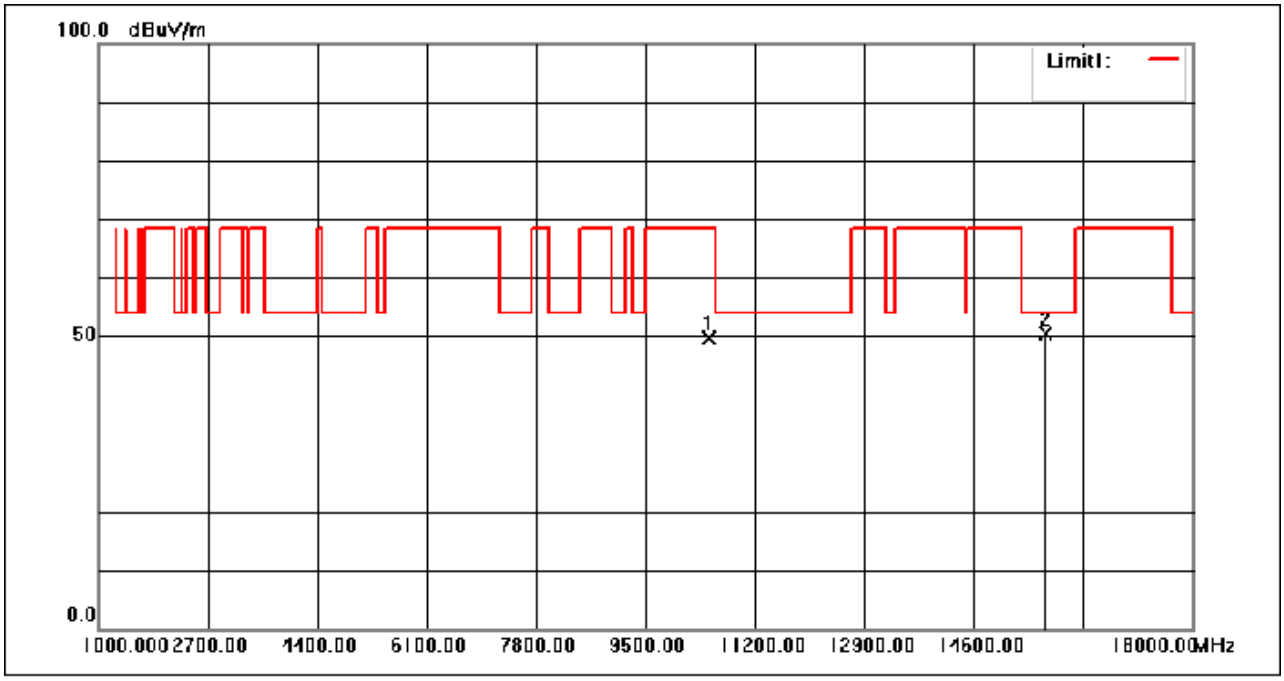
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10480.000 | 49.15 | 0.40 | 49.55 | 68.30 | -18.75 | peak |
| 2 | 15720.000 | 44.34 | 6.10 | 50.44 | 54.00 | -3.56 | peak |

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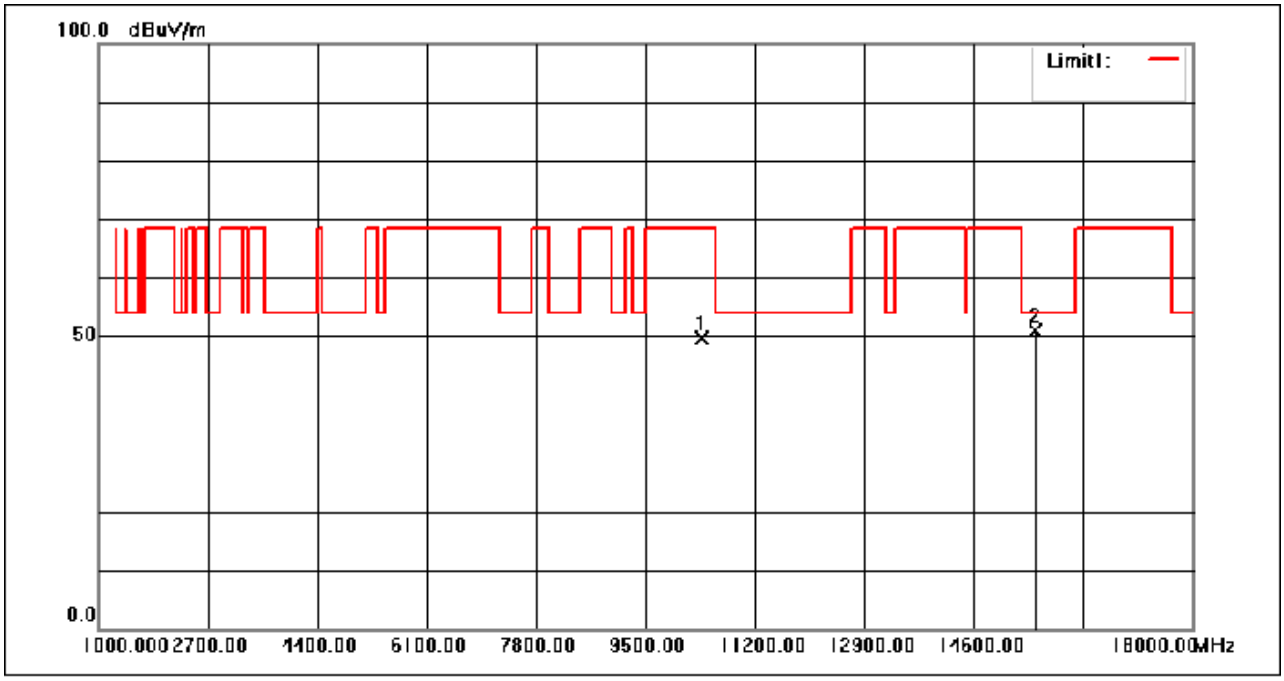
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10380.000 | 49.36 | 0.20 | 49.56 | 68.30 | -18.74 | peak |
| 2 | 15570.000 | 45.00 | 5.79 | 50.79 | 54.00 | -3.21 | peak |

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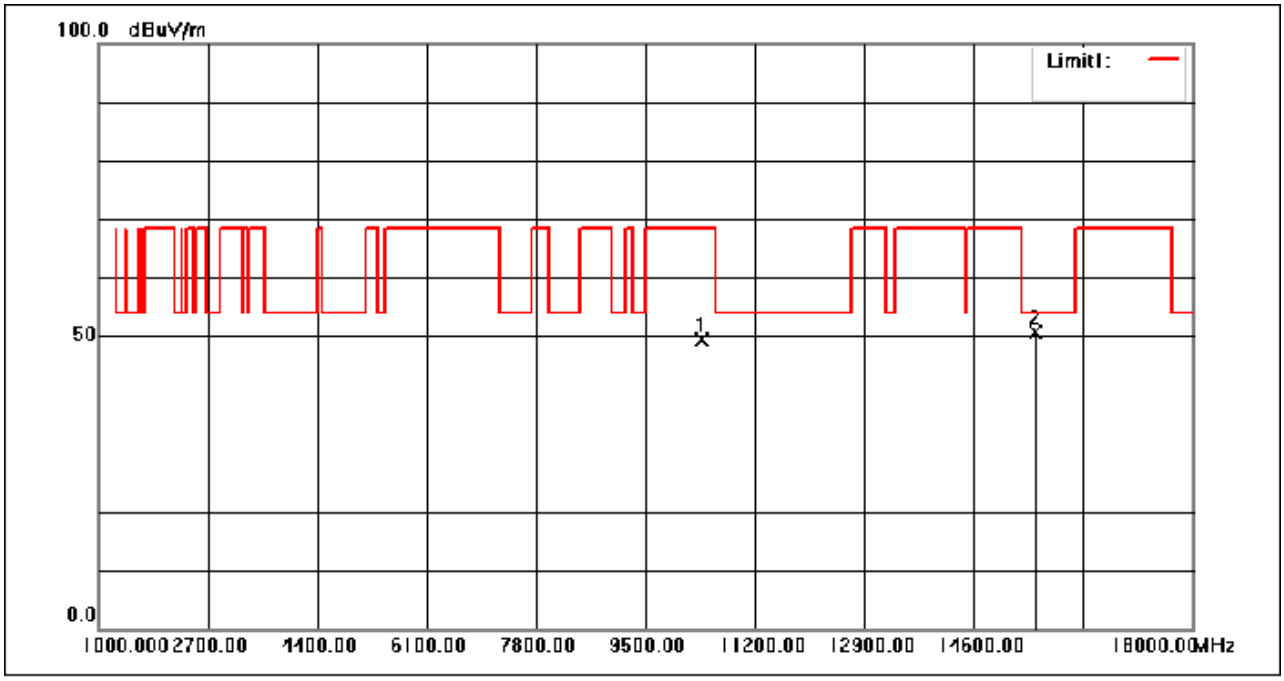
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10380.000 | 49.26 | 0.20 | 49.46 | 68.30 | -18.84 | peak |
| 2 | 15570.000 | 44.76 | 5.79 | 50.55 | 54.00 | -3.45 | peak |

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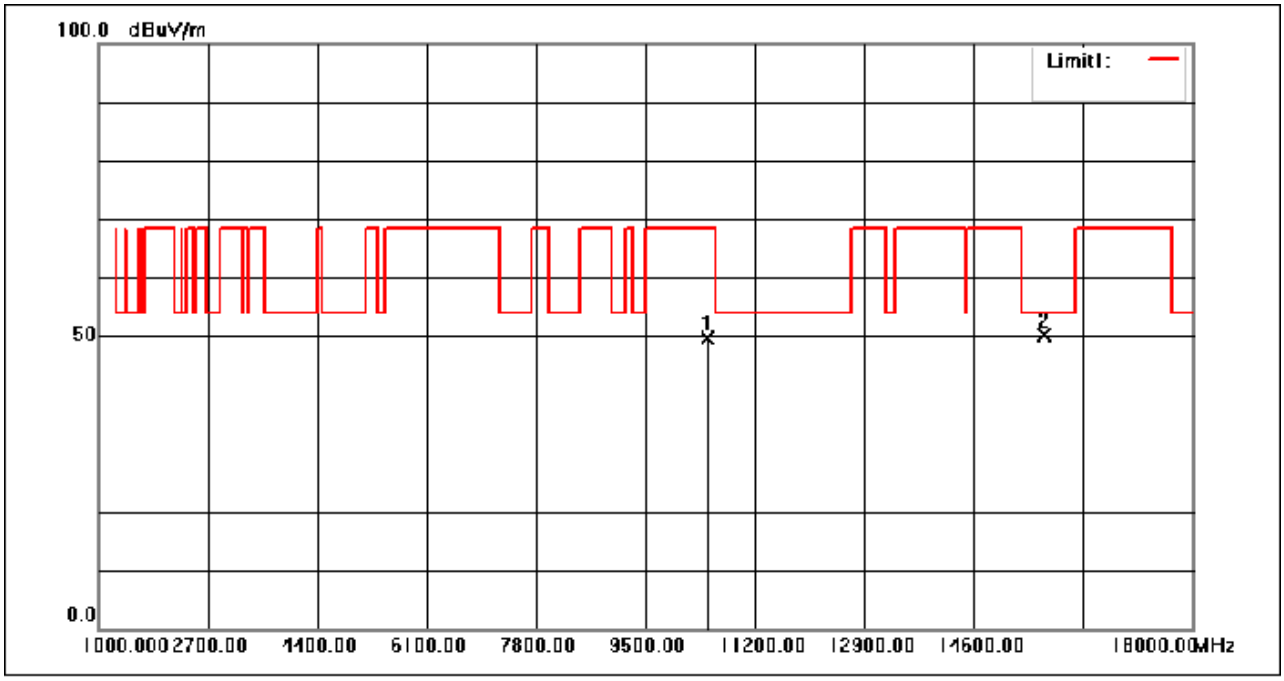
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10460.000 | 49.23 | 0.36 | 49.59 | 68.30 | -18.71 | peak |
| 2 | 15690.000 | 44.04 | 6.04 | 50.08 | 54.00 | -3.92 | peak |

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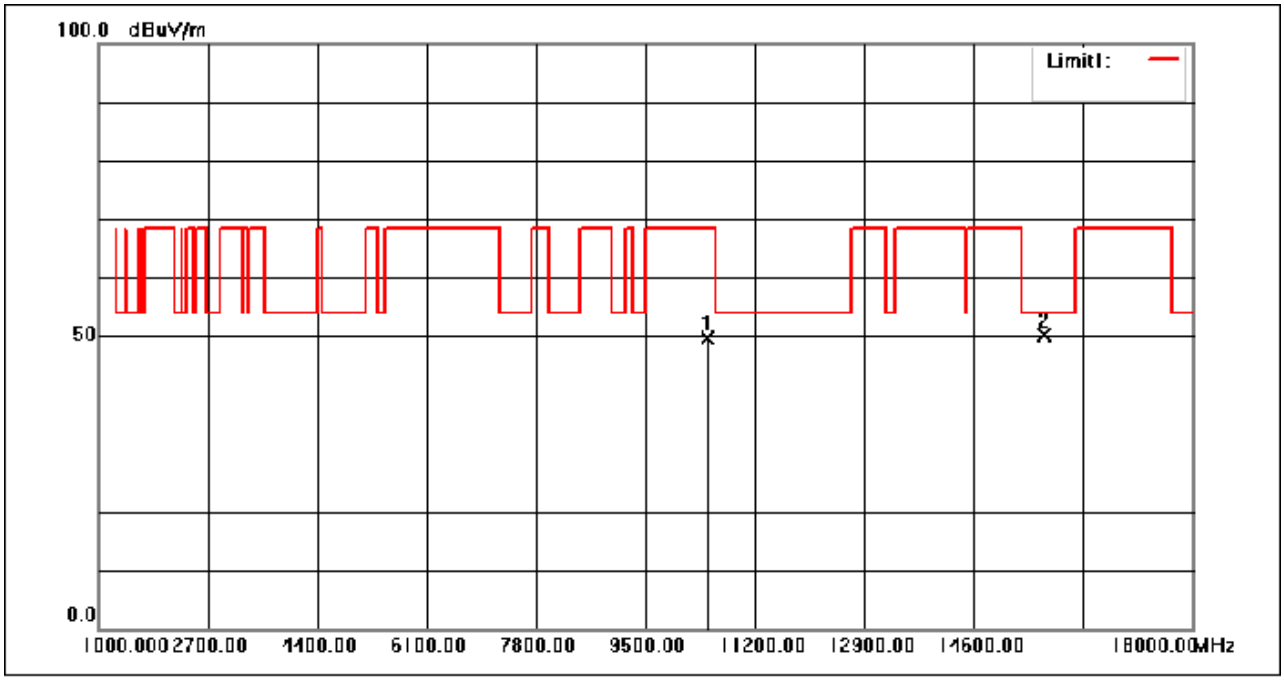
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10460.000 | 49.15 | 0.36 | 49.51 | 68.30 | -18.79 | peak |
| 2 | 15690.000 | 44.05 | 6.04 | 50.09 | 54.00 | -3.91 | peak |

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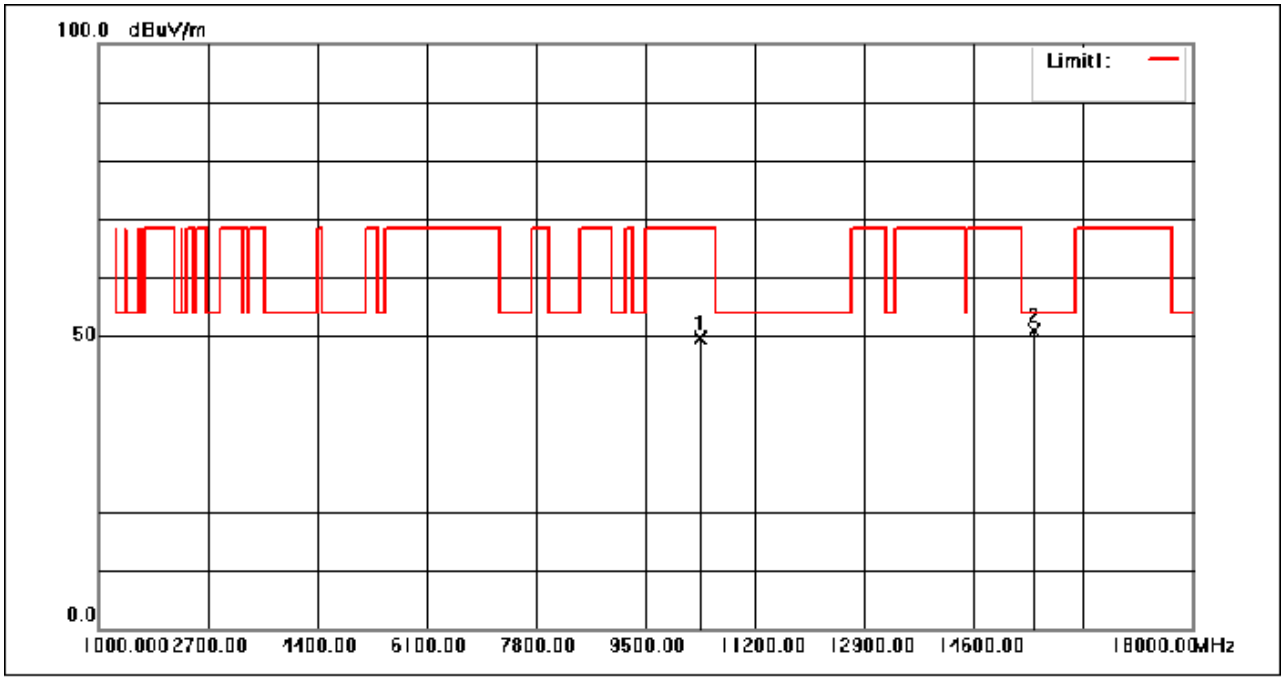
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10360.000 | 49.51 | 0.16 | 49.67 | 68.30 | -18.63 | peak |
| 2 | 15540.000 | 45.07 | 5.73 | 50.80 | 54.00 | -3.20 | peak |

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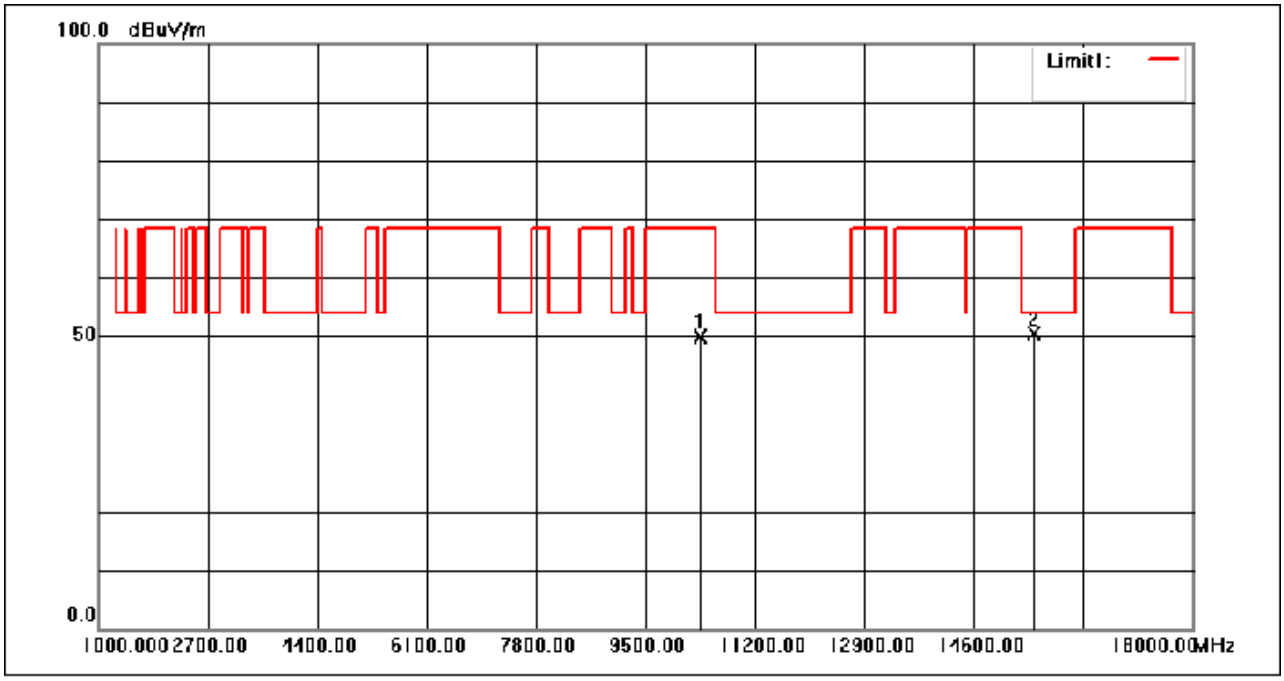
Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10360.000 | 49.84 | 0.16 | 50.00 | 68.30 | -18.30 | peak |
| 2 | 15540.000 | 44.69 | 5.73 | 50.42 | 54.00 | -3.58 | peak |

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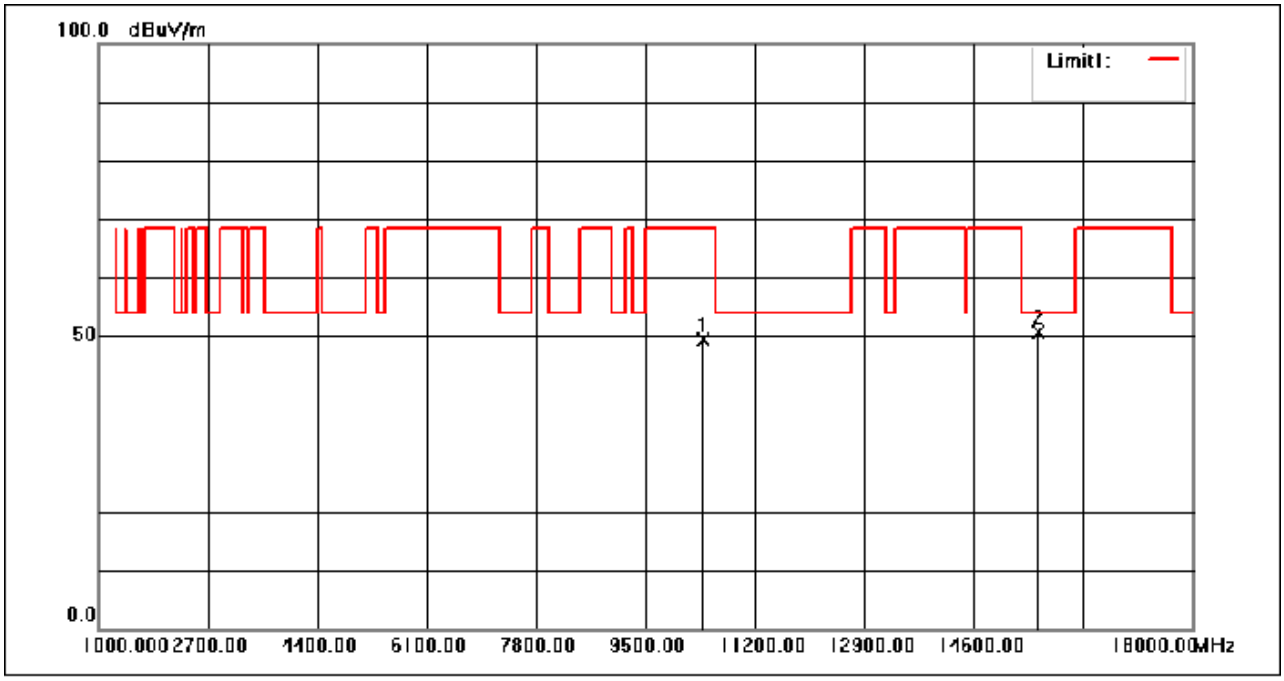
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10400.000 | 49.20 | 0.24 | 49.44 | 68.30 | -18.86 | peak |
| 2 | 15600.000 | 44.69 | 5.85 | 50.54 | 54.00 | -3.46 | peak |

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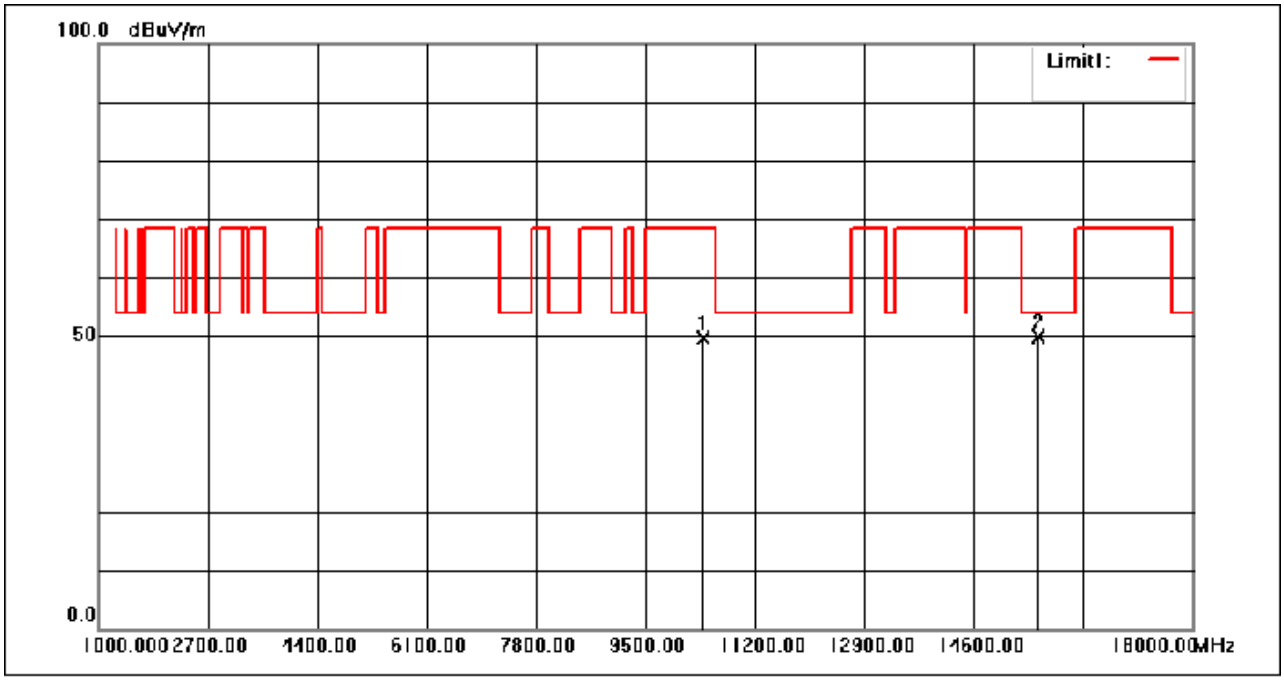
Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10400.000 | 49.31 | 0.24 | 49.55 | 68.30 | -18.75 | peak |
| 2 | 15600.000 | 44.15 | 5.85 | 50.00 | 54.00 | -4.00 | peak |

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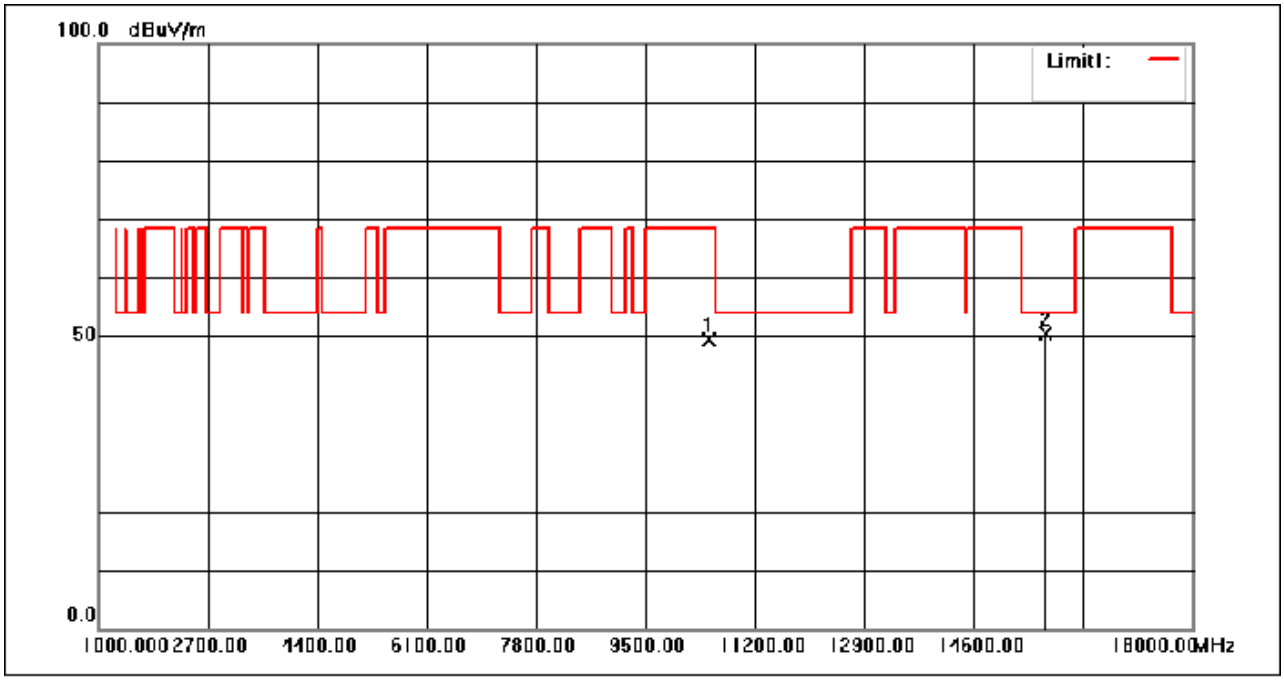
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10480.000 | 48.91 | 0.40 | 49.31 | 68.30 | -18.99 | peak |
| 2 | 15720.000 | 44.18 | 6.10 | 50.28 | 54.00 | -3.72 | peak |

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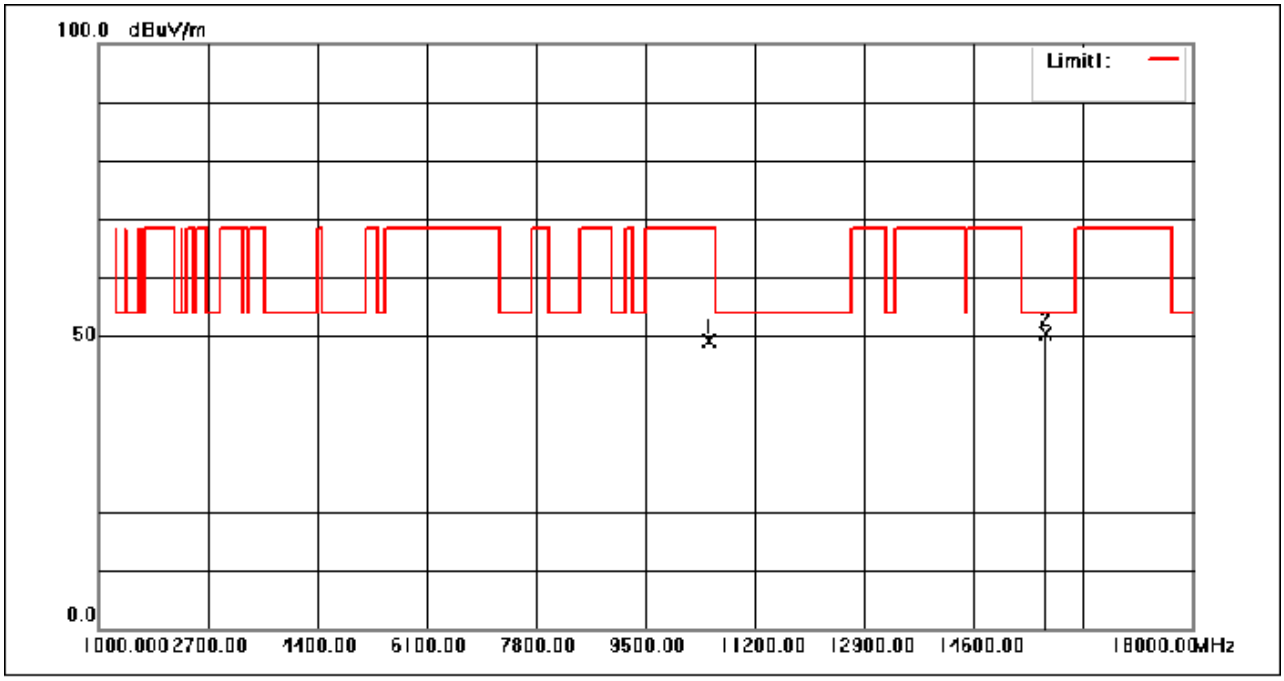
Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10480.000 | 48.64 | 0.40 | 49.04 | 68.30 | -19.26 | peak |
| 2 | 15720.000 | 44.36 | 6.10 | 50.46 | 54.00 | -3.54 | peak |

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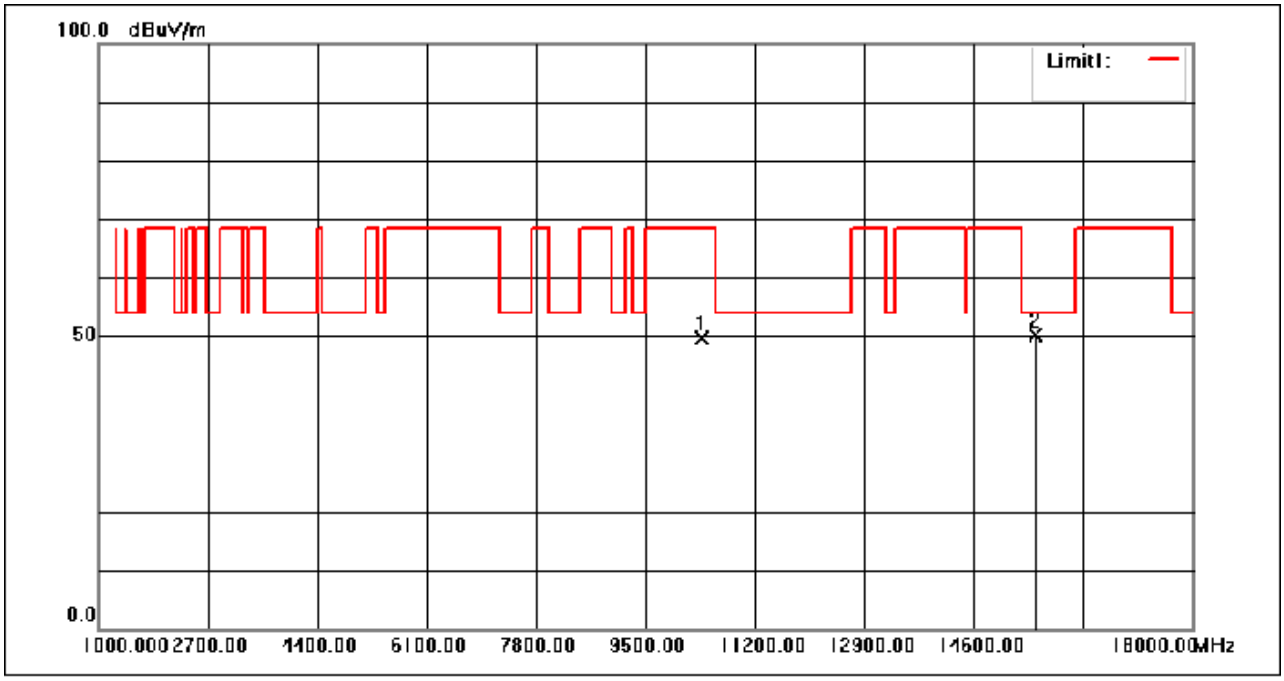
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10380.000 | 49.48 | 0.20 | 49.68 | 68.30 | -18.62 | peak |
| 2 | 15570.000 | 44.42 | 5.79 | 50.21 | 54.00 | -3.79 | peak |

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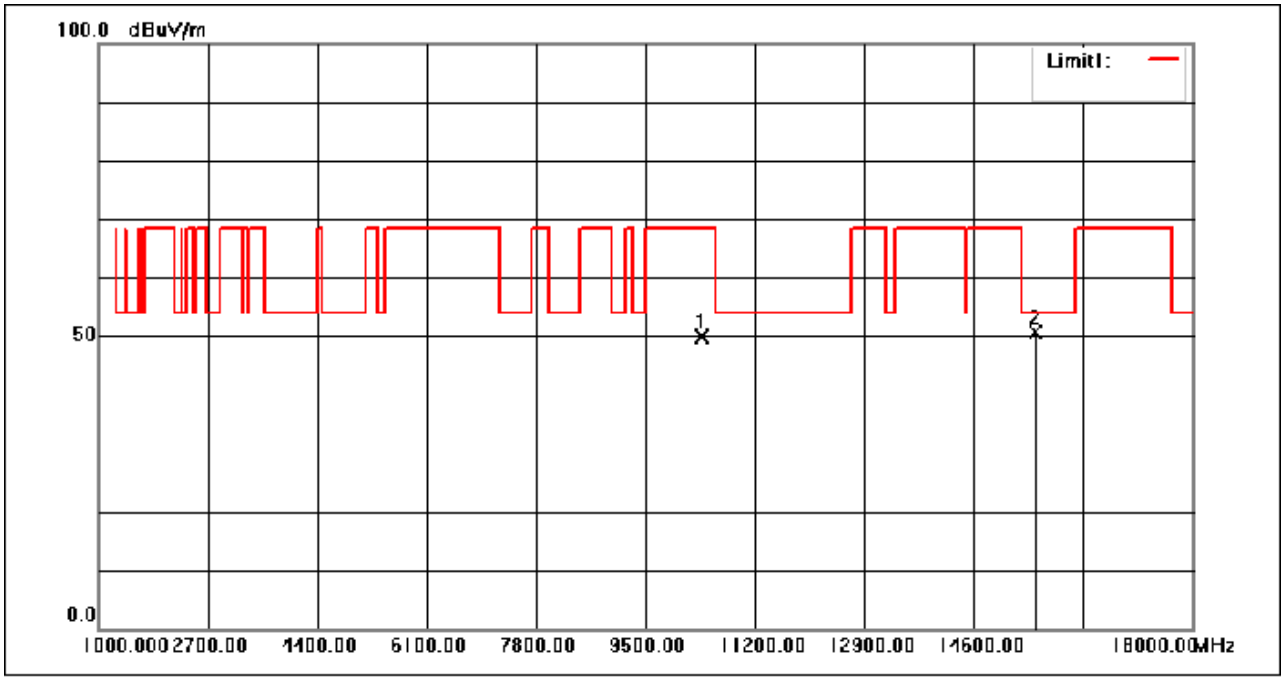
Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10380.000 | 49.76 | 0.20 | 49.96 | 68.30 | -18.34 | peak |
| 2 | 15570.000 | 44.95 | 5.79 | 50.74 | 54.00 | -3.26 | peak |

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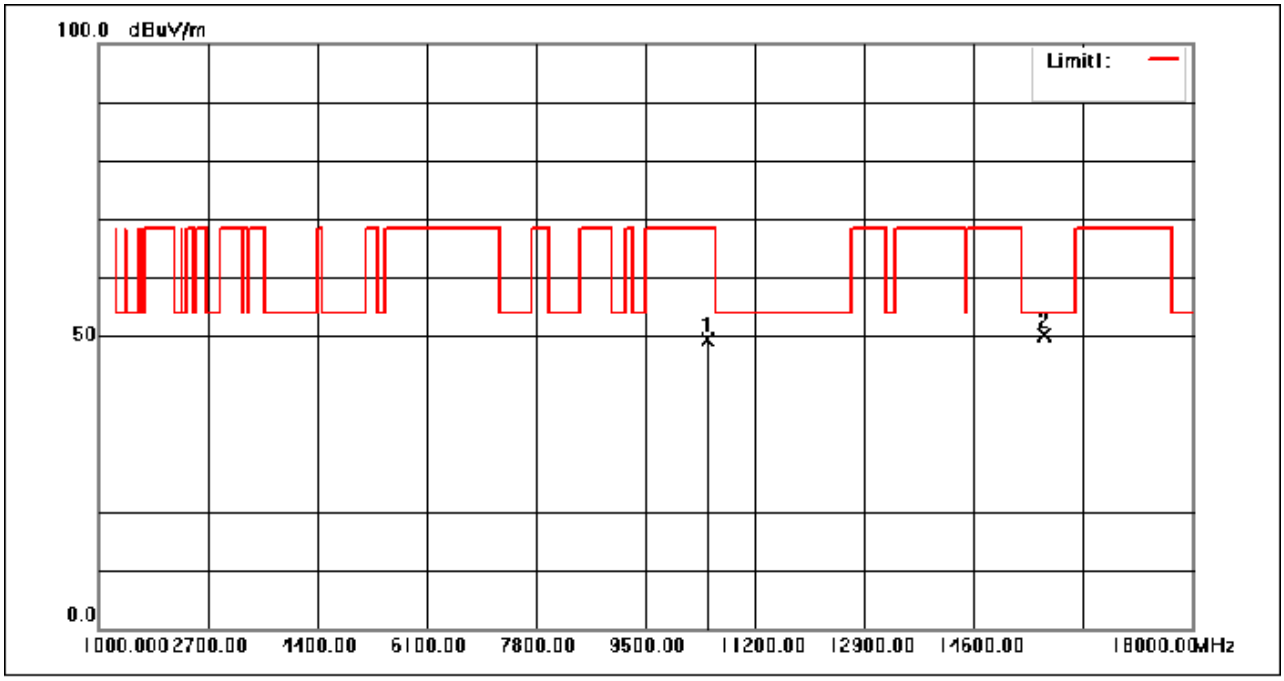
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10460.000 | 48.94 | 0.36 | 49.30 | 68.30 | -19.00 | peak |
| 2 | 15690.000 | 44.06 | 6.04 | 50.10 | 54.00 | -3.90 | peak |

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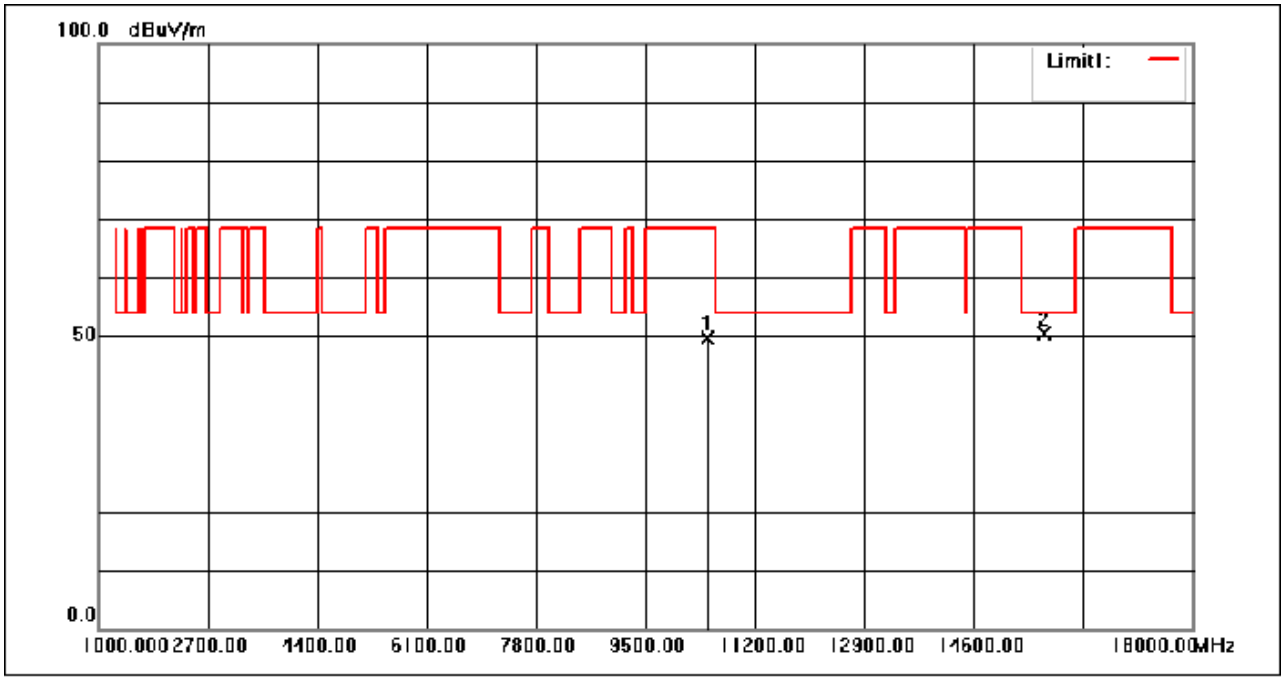
Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10460.000 | 49.15 | 0.36 | 49.51 | 68.30 | -18.79 | peak |
| 2 | 15690.000 | 44.39 | 6.04 | 50.43 | 54.00 | -3.57 | peak |

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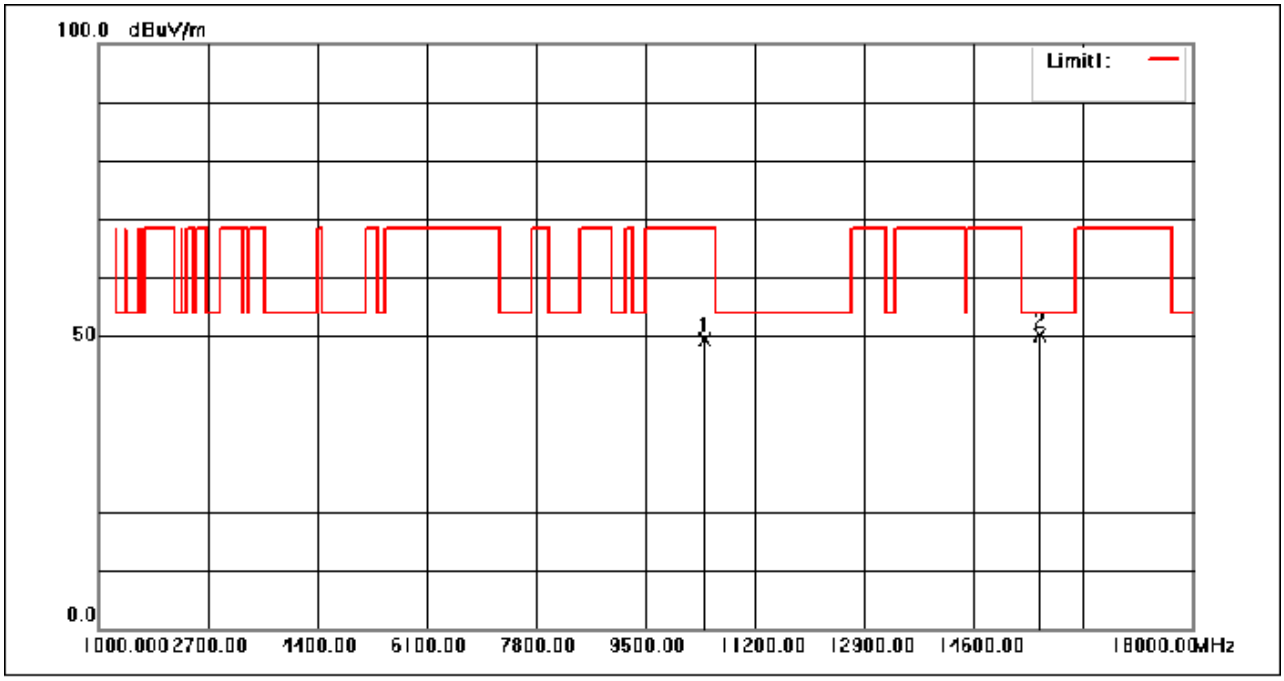
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10420.000 | 49.03 | 0.28 | 49.31 | 68.30 | -18.99 | peak |
| 2 | 15630.000 | 44.21 | 5.92 | 50.13 | 54.00 | -3.87 | peak |

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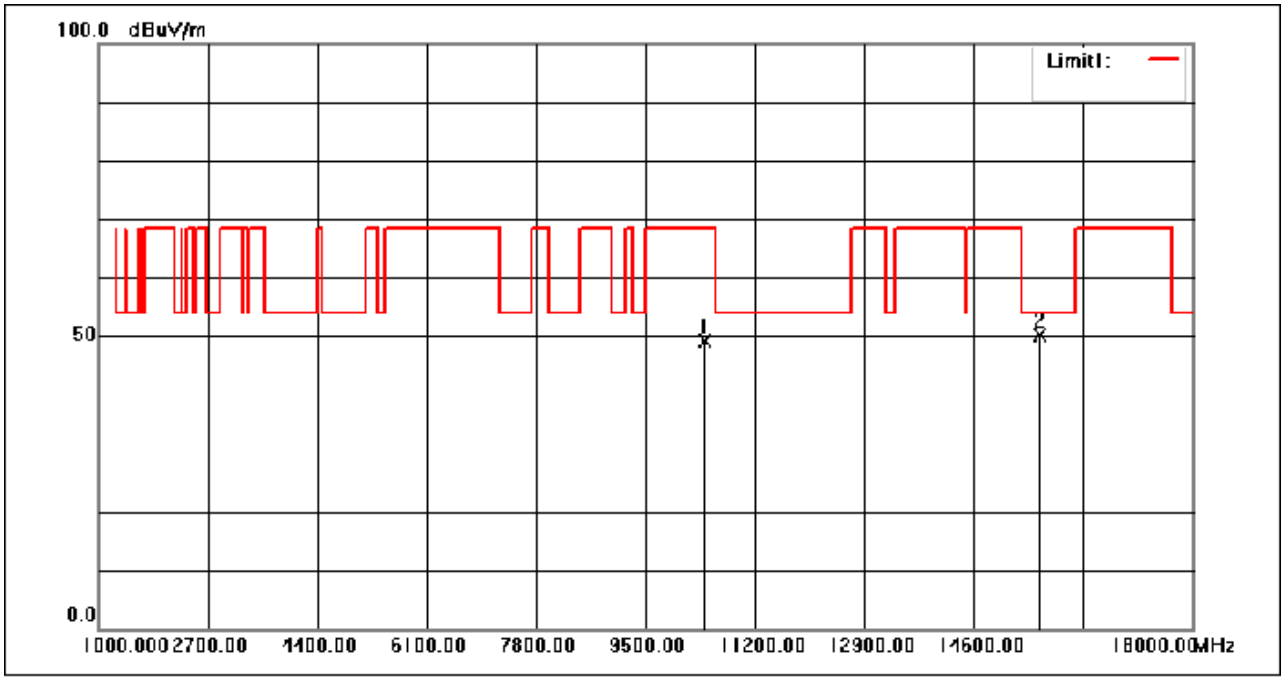
Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10420.000 | 48.76 | 0.28 | 49.04 | 68.30 | -19.26 | peak |
| 2 | 15630.000 | 44.27 | 5.92 | 50.19 | 54.00 | -3.81 | peak |

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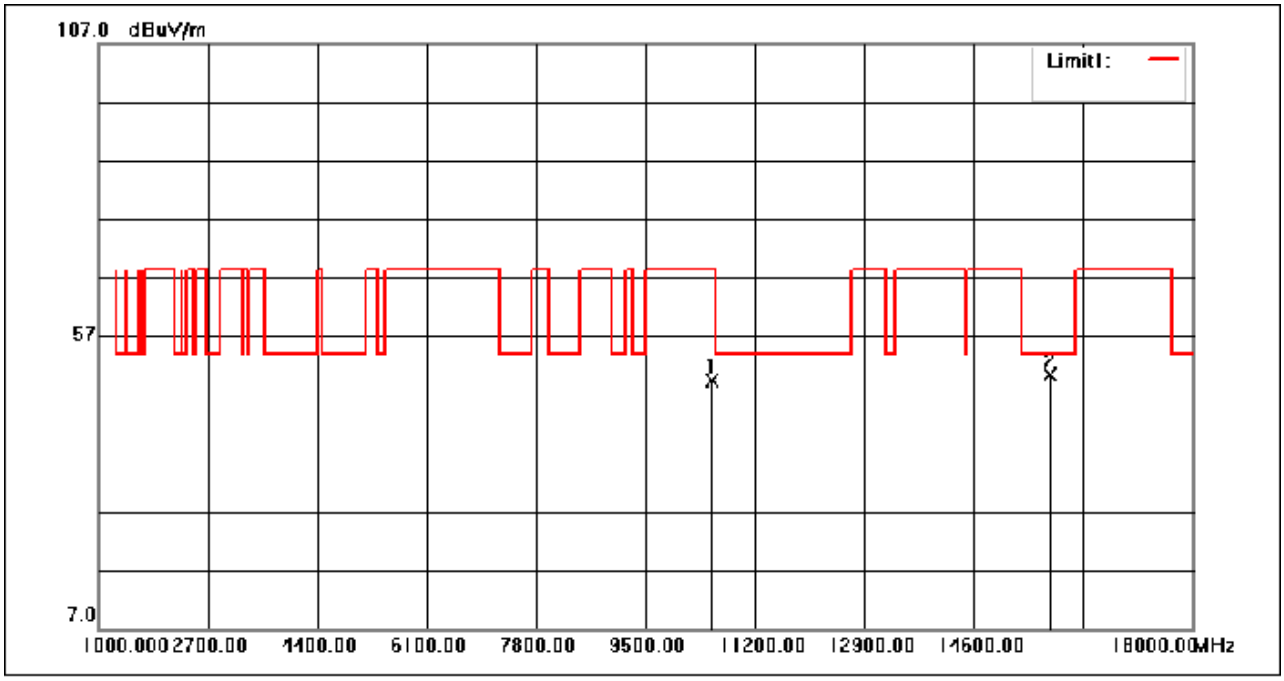
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10520.000 | 49.02 | 0.44 | 49.46 | 68.30 | -18.84 | peak |
| 2 | 15780.000 | 44.06 | 6.23 | 50.29 | 54.00 | -3.71 | peak |

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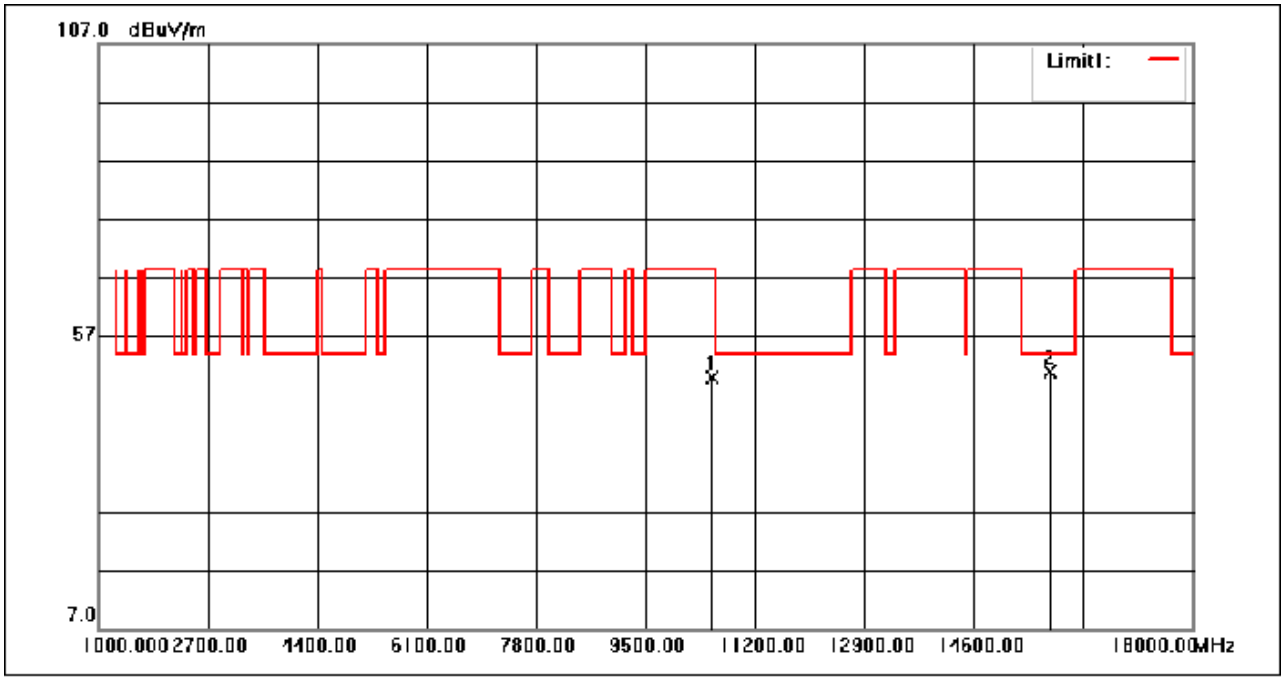
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10520.000 | 49.46 | 0.44 | 49.90 | 68.30 | -18.40 | peak |
| 2 | 15780.000 | 44.64 | 6.23 | 50.87 | 54.00 | -3.13 | peak |

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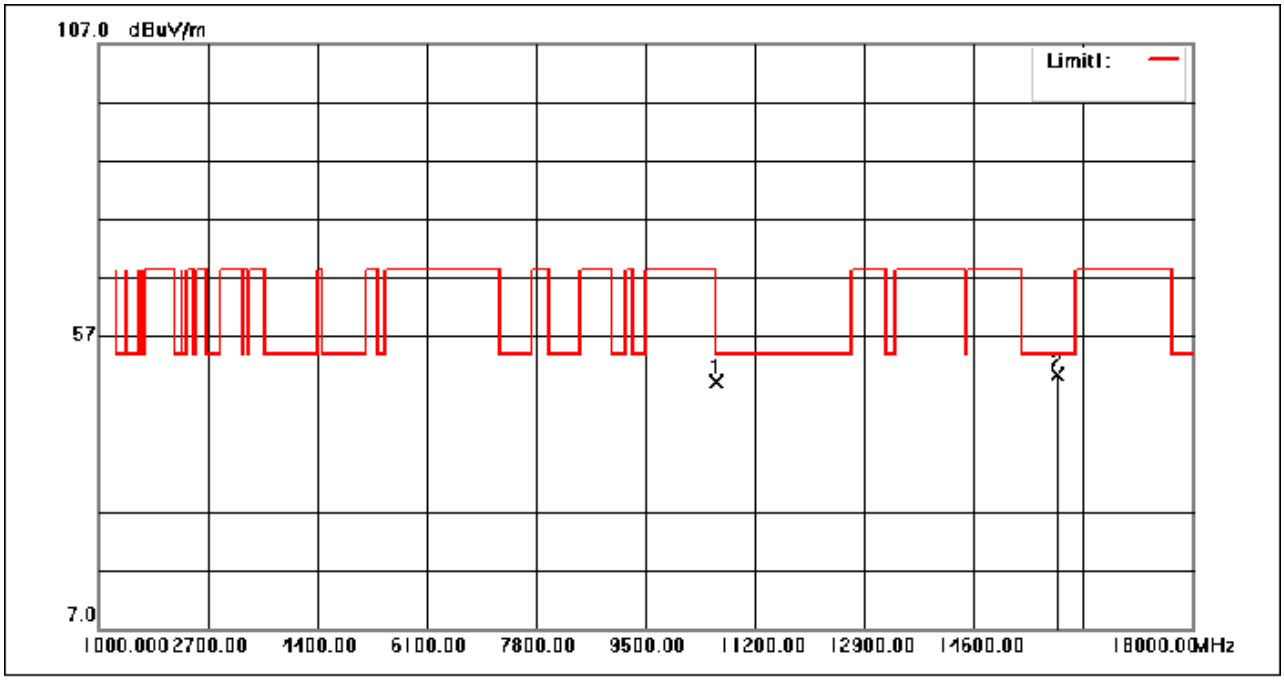
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10600.000 | 48.77 | 0.46 | 49.23 | 54.00 | -4.77 | peak |
| 2 | 15900.000 | 43.91 | 6.48 | 50.39 | 54.00 | -3.61 | peak |

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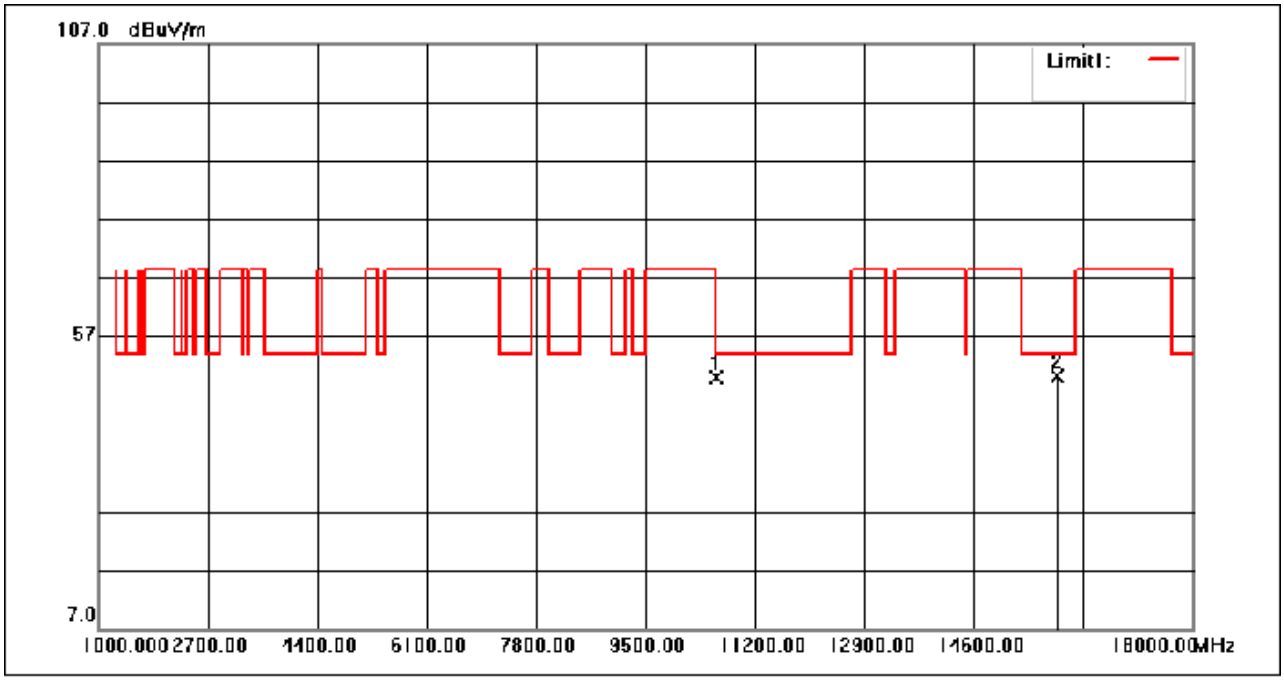
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10600.000 | 49.33 | 0.46 | 49.79 | 54.00 | -4.21 | peak |
| 2 | 15900.000 | 43.68 | 6.48 | 50.16 | 54.00 | -3.84 | peak |

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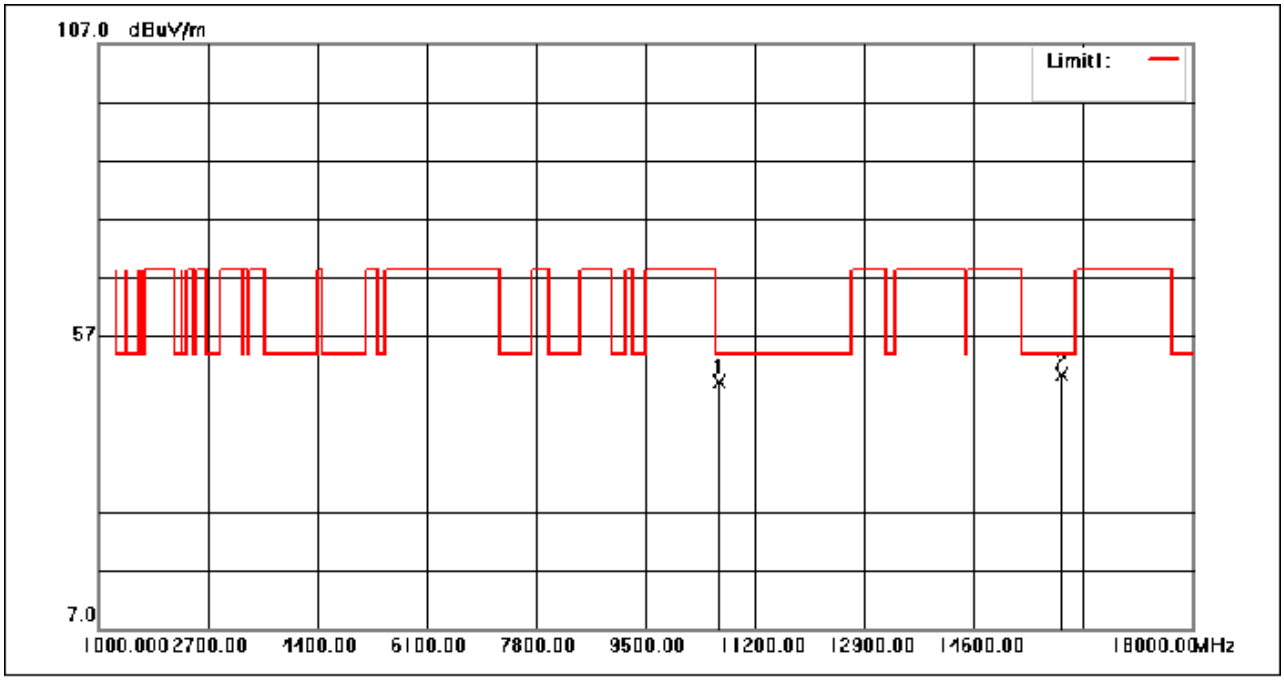
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10640.000 | 48.60 | 0.46 | 49.06 | 54.00 | -4.94 | peak |
| 2 | 15960.000 | 43.79 | 6.60 | 50.39 | 54.00 | -3.61 | peak |

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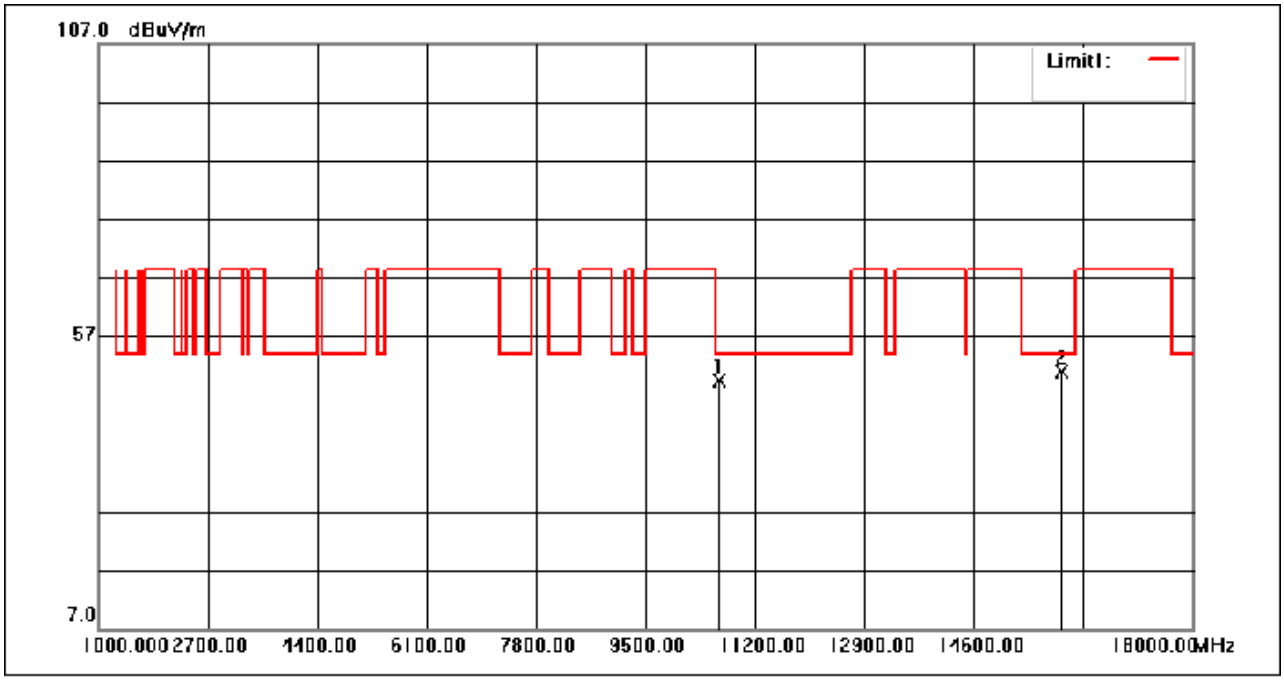
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10640.000 | 48.90 | 0.46 | 49.36 | 54.00 | -4.64 | peak |
| 2 | 15960.000 | 44.19 | 6.60 | 50.79 | 54.00 | -3.21 | peak |

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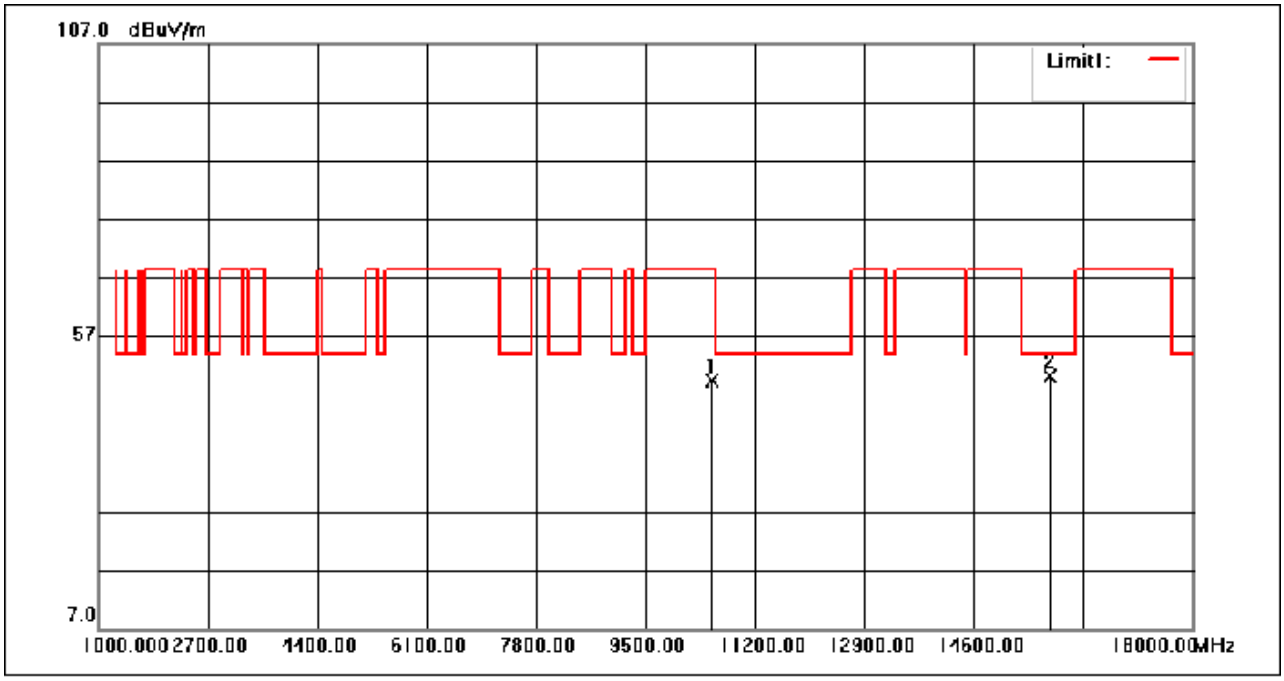
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10520.000 | 48.89 | 0.44 | 49.33 | 68.30 | -18.97 | peak |
| 2 | 15780.000 | 43.93 | 6.23 | 50.16 | 54.00 | -3.84 | peak |

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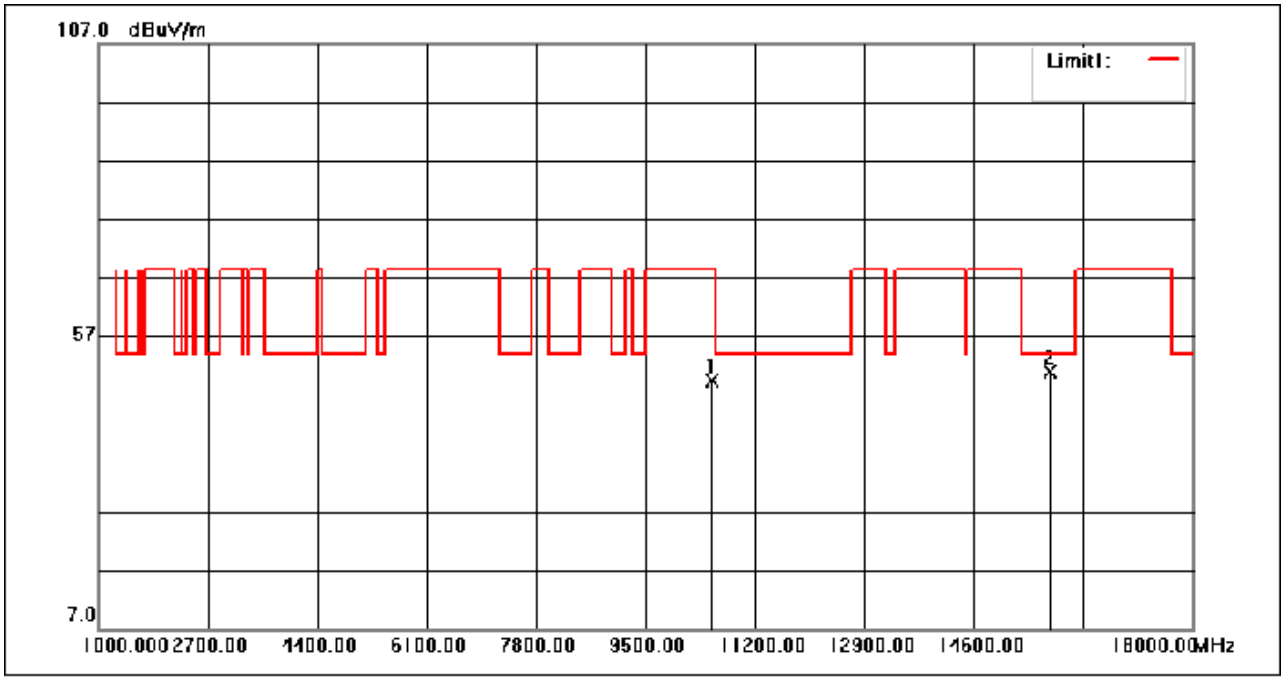
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10520.000 | 48.97 | 0.44 | 49.41 | 68.30 | -18.89 | peak |
| 2 | 15780.000 | 44.67 | 6.23 | 50.90 | 54.00 | -3.10 | peak |

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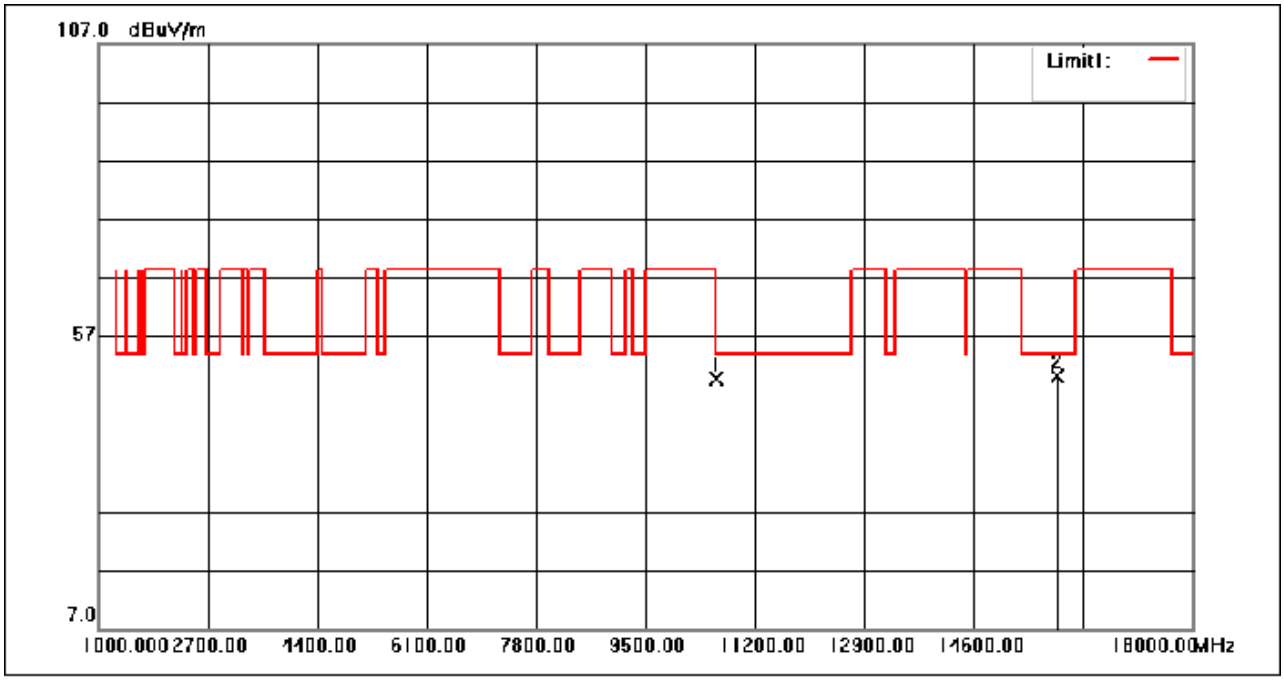
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10600.000 | 49.21 | 0.46 | 49.67 | 54.00 | -4.33 | peak |
| 2 | 15900.000 | 43.65 | 6.48 | 50.13 | 54.00 | -3.87 | peak |

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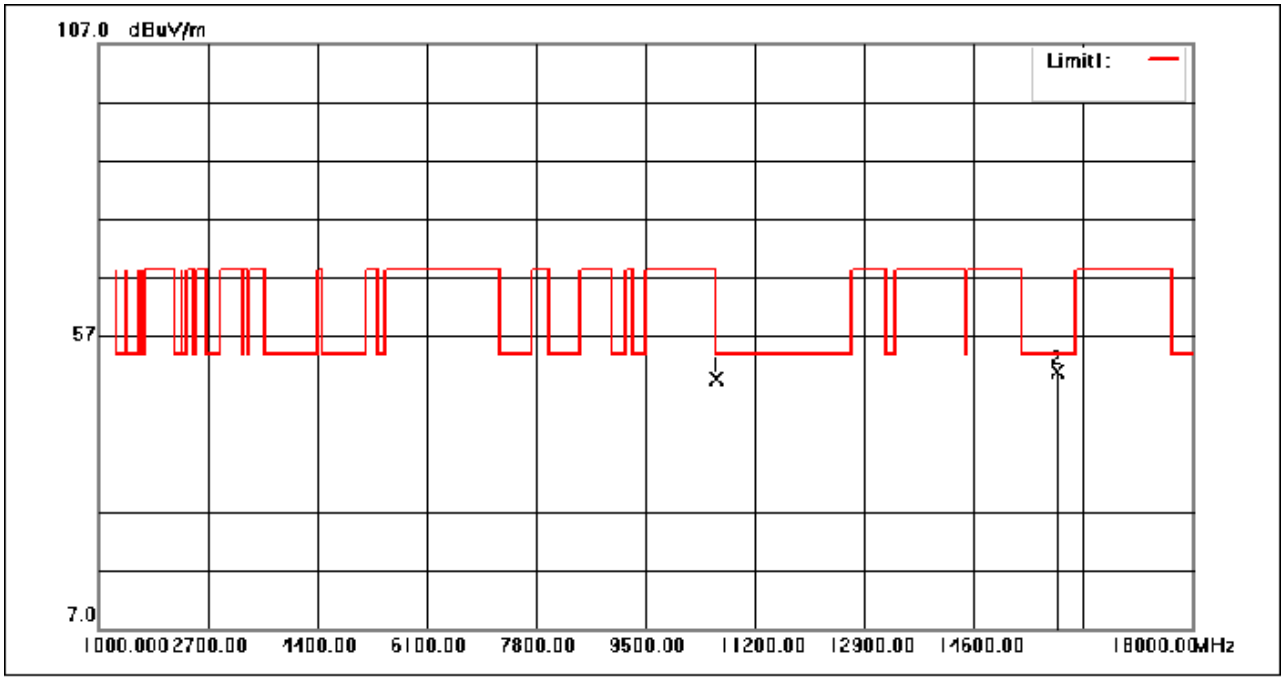
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10600.000 | 49.07 | 0.46 | 49.53 | 54.00 | -4.47 | peak |
| 2 | 15900.000 | 44.33 | 6.48 | 50.81 | 54.00 | -3.19 | peak |

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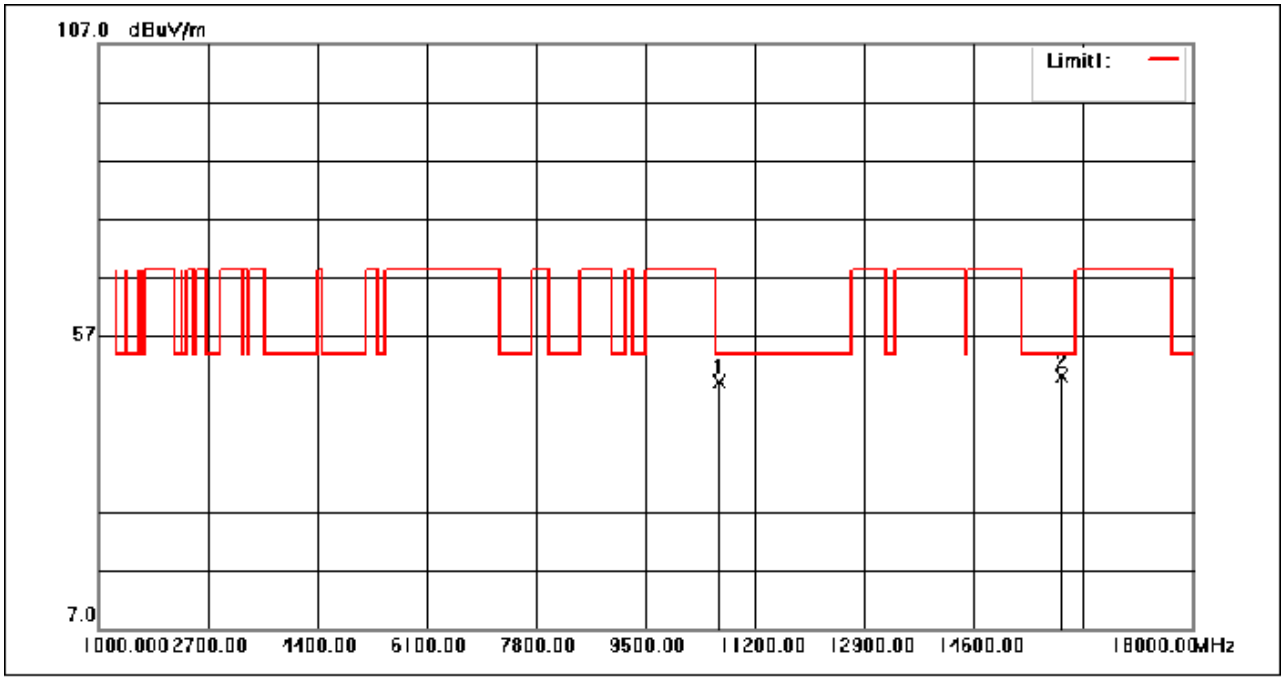
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10640.000 | 48.65 | 0.46 | 49.11 | 54.00 | -4.89 | peak |
| 2 | 15960.000 | 43.64 | 6.60 | 50.24 | 54.00 | -3.76 | peak |

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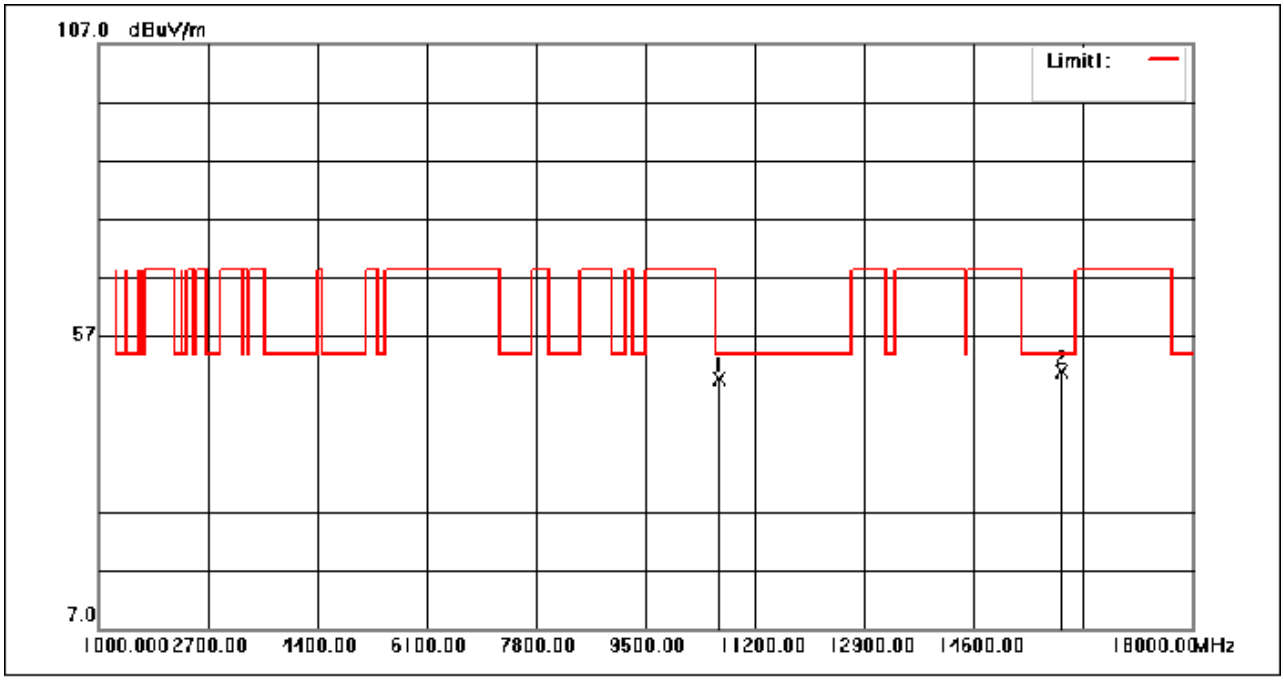
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10640.000 | 49.07 | 0.46 | 49.53 | 54.00 | -4.47 | peak |
| 2 | 15960.000 | 44.17 | 6.60 | 50.77 | 54.00 | -3.23 | peak |

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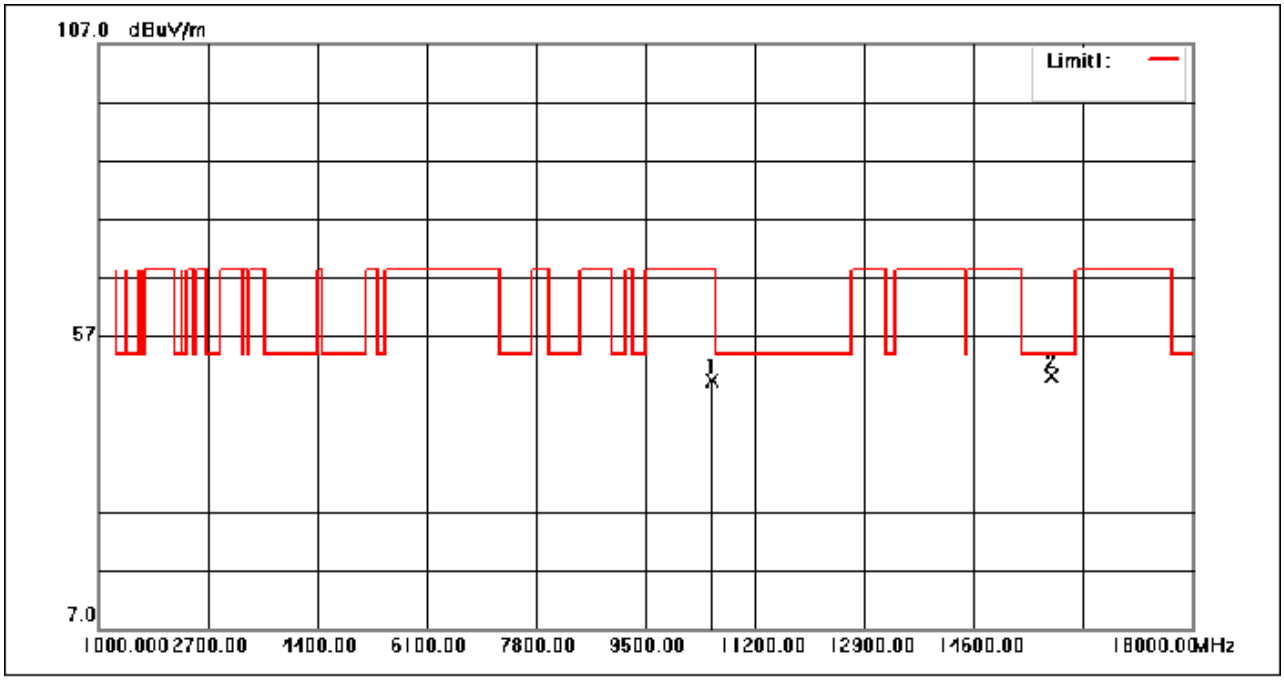
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10540.000 | 49.02 | 0.44 | 49.46 | 68.30 | -18.84 | peak |
| 2 | 15810.000 | 43.80 | 6.29 | 50.09 | 54.00 | -3.91 | peak |

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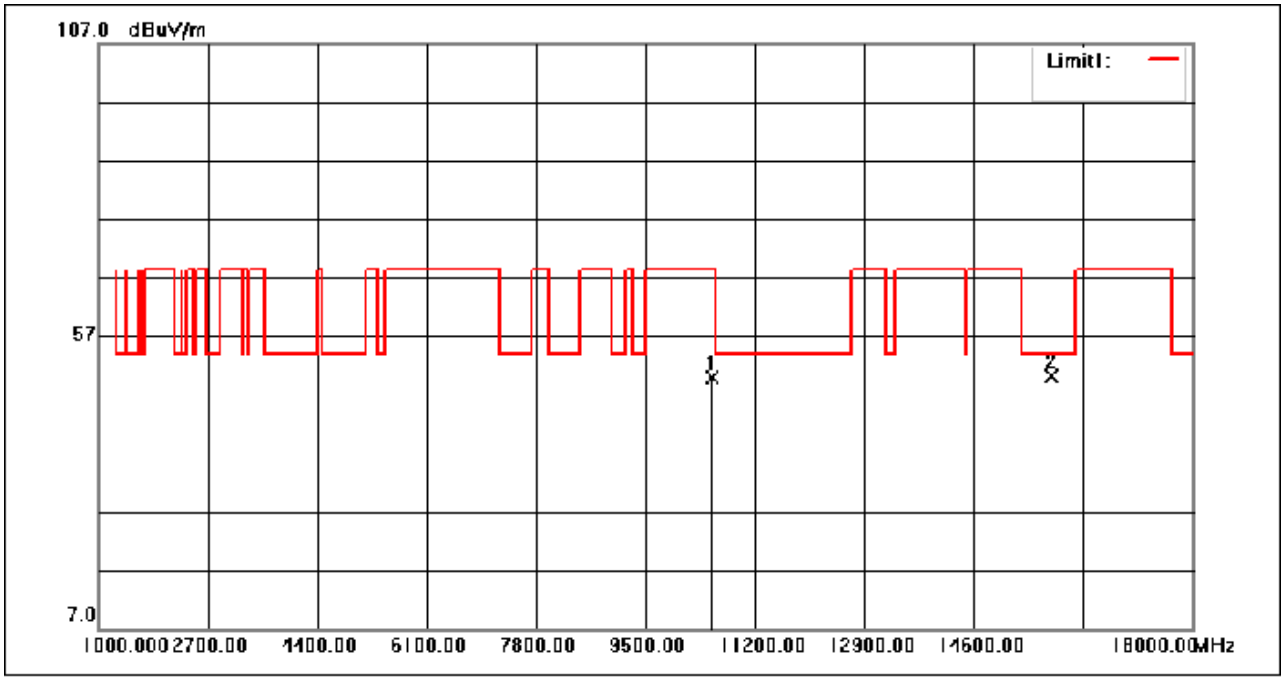
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10540.000 | 49.37 | 0.44 | 49.81 | 68.30 | -18.49 | peak |
| 2 | 15810.000 | 43.79 | 6.29 | 50.08 | 54.00 | -3.92 | peak |

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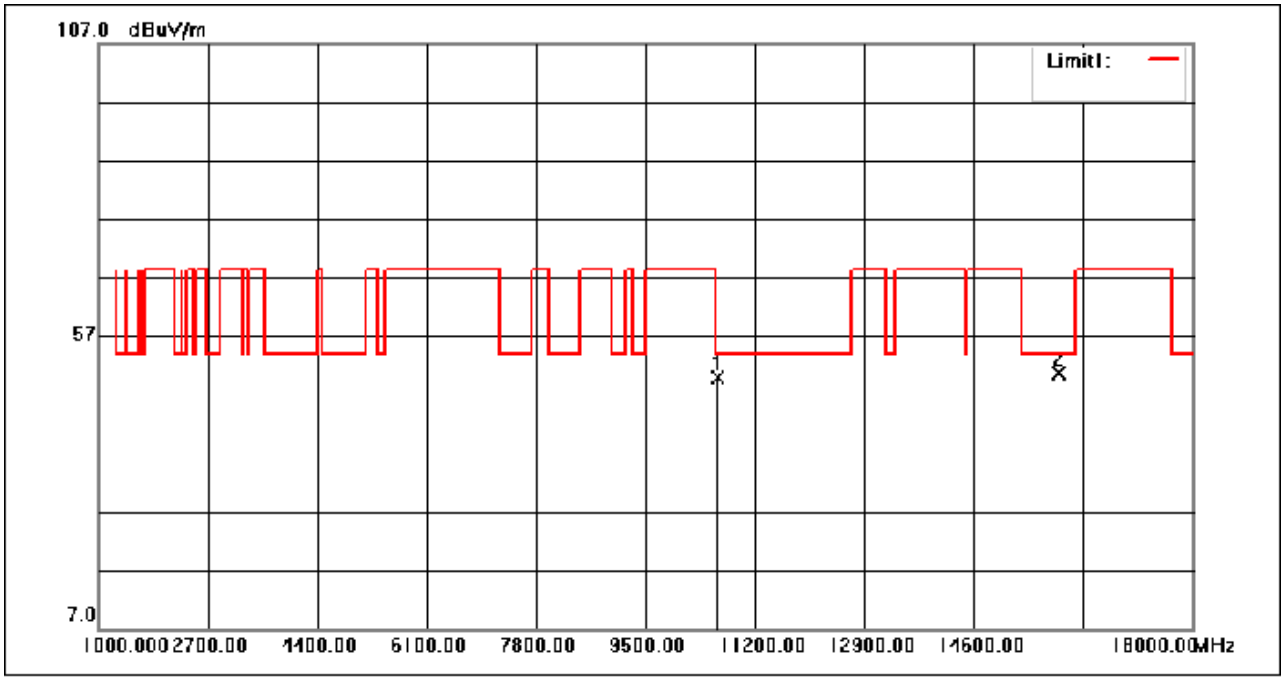
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10620.000 | 49.34 | 0.46 | 49.80 | 54.00 | -4.20 | peak |
| 2 | 15930.000 | 44.16 | 6.54 | 50.70 | 54.00 | -3.30 | peak |

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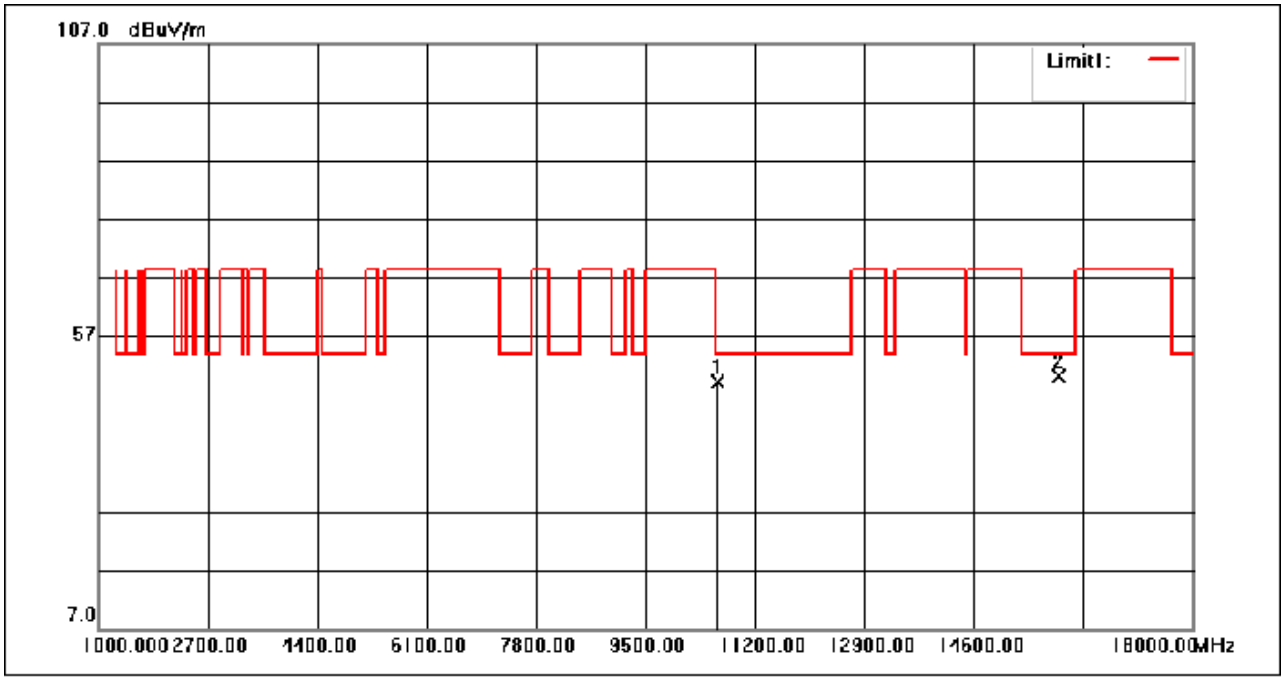
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10620.000 | 48.67 | 0.46 | 49.13 | 54.00 | -4.87 | peak |
| 2 | 15930.000 | 43.69 | 6.54 | 50.23 | 54.00 | -3.77 | peak |

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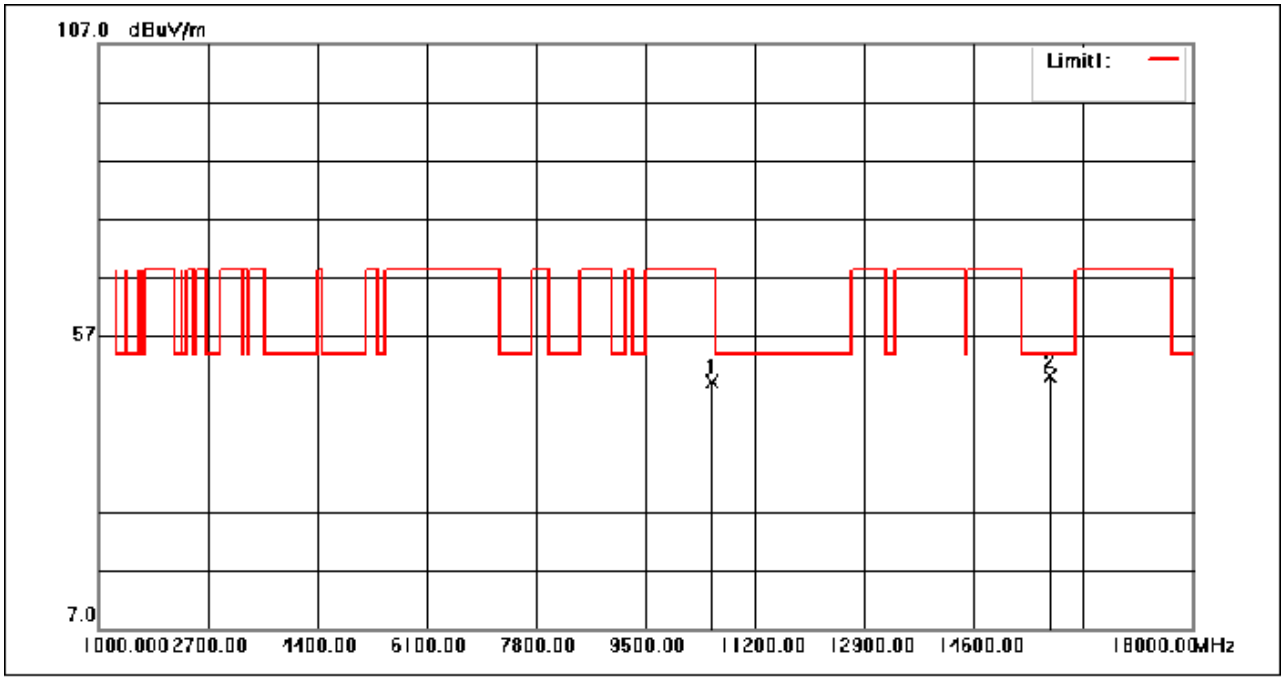
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10520.000 | 48.79 | 0.44 | 49.23 | 68.30 | -19.07 | peak |
| 2 | 15780.000 | 43.78 | 6.23 | 50.01 | 54.00 | -3.99 | peak |

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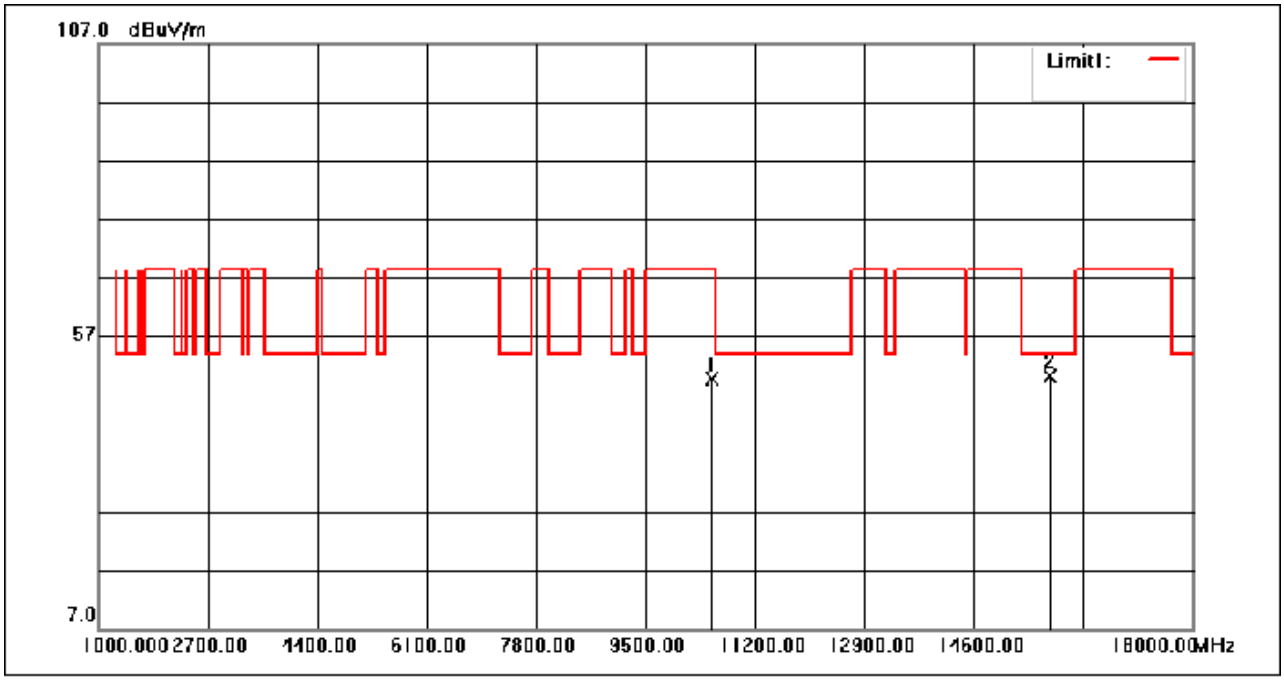
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10520.000 | 49.26 | 0.44 | 49.70 | 68.30 | -18.60 | peak |
| 2 | 15780.000 | 43.90 | 6.23 | 50.13 | 54.00 | -3.87 | peak |

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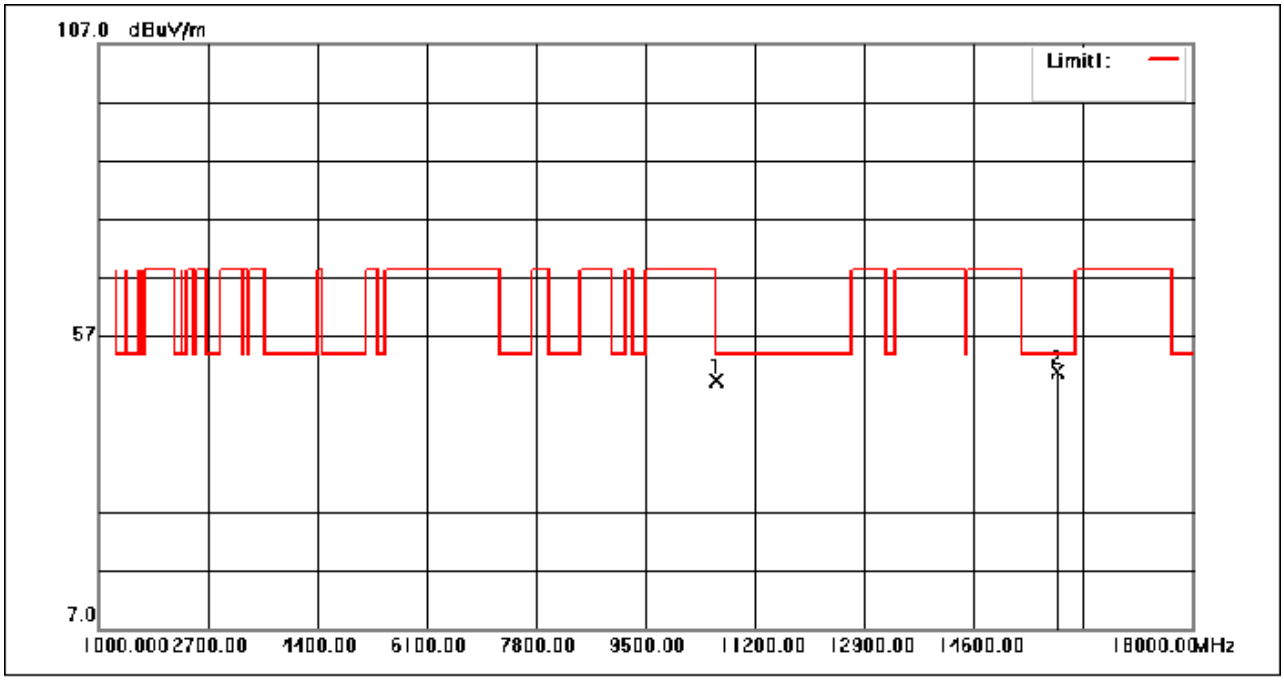
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10600.000 | 48.93 | 0.46 | 49.39 | 54.00 | -4.61 | peak |
| 2 | 15900.000 | 44.34 | 6.48 | 50.82 | 54.00 | -3.18 | peak |

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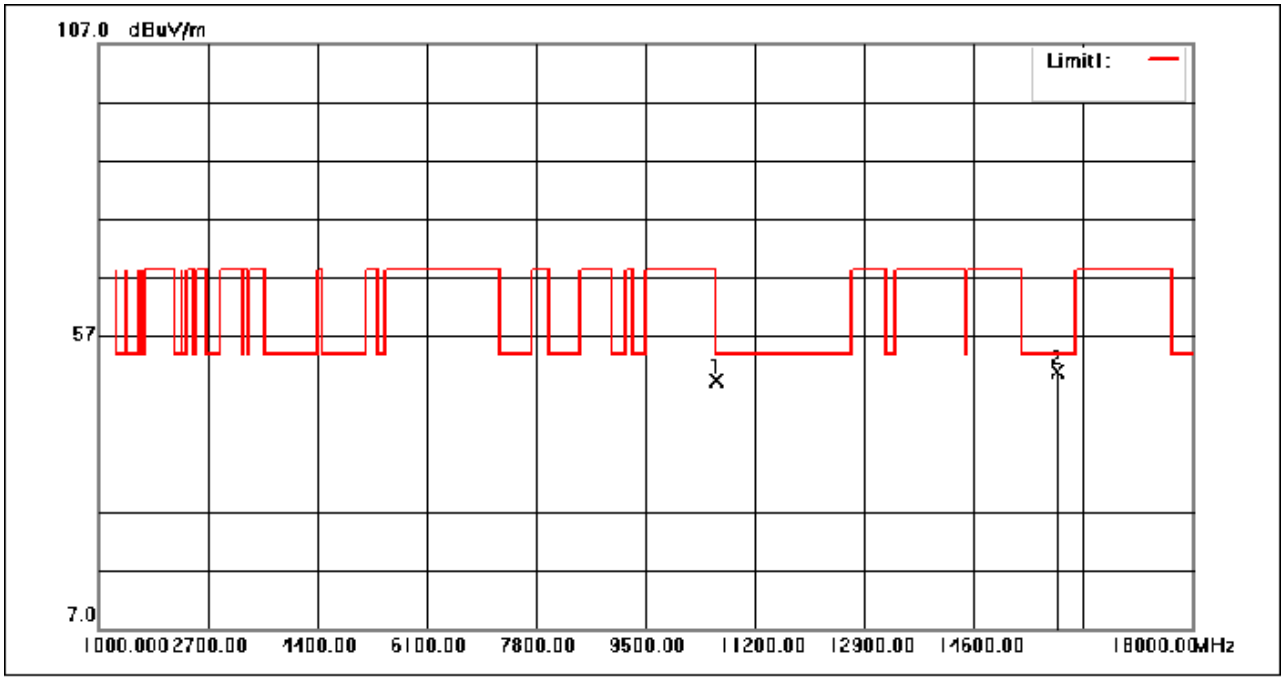
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10600.000 | 49.04 | 0.46 | 49.50 | 54.00 | -4.50 | peak |
| 2 | 15900.000 | 44.37 | 6.48 | 50.85 | 54.00 | -3.15 | peak |

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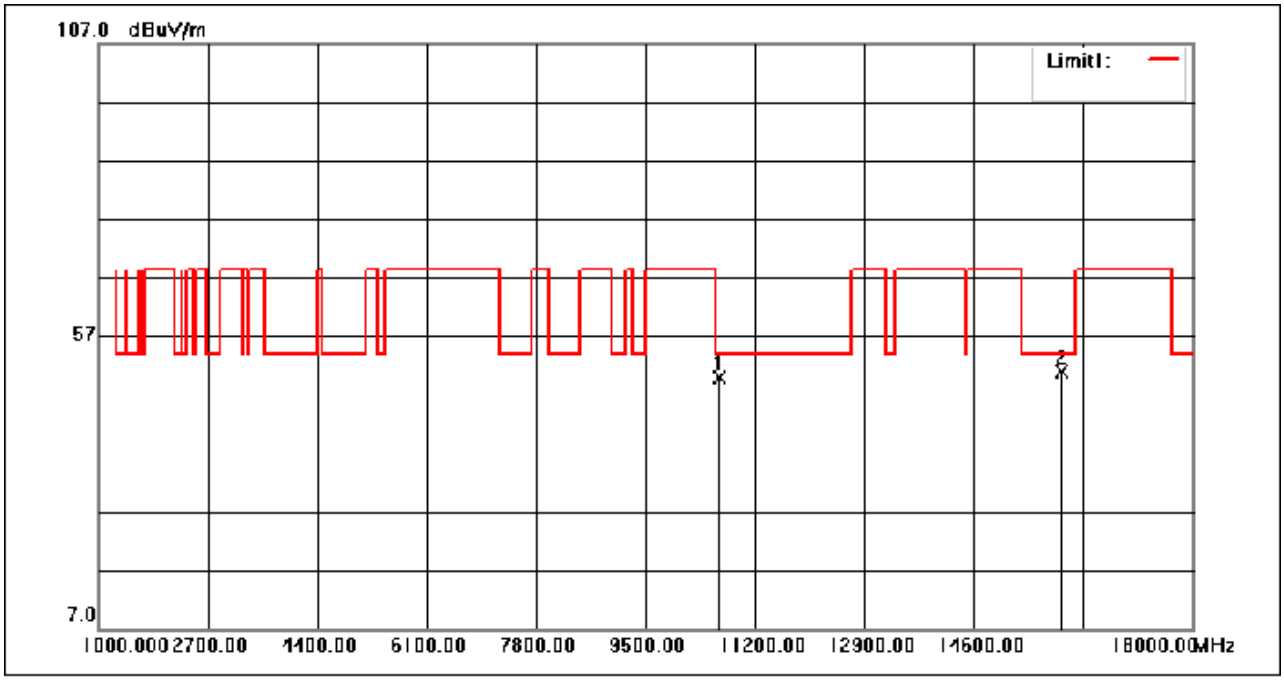
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10640.000 | 49.44 | 0.46 | 49.90 | 54.00 | -4.10 | peak |
| 2 | 15960.000 | 44.33 | 6.60 | 50.93 | 54.00 | -3.07 | peak |

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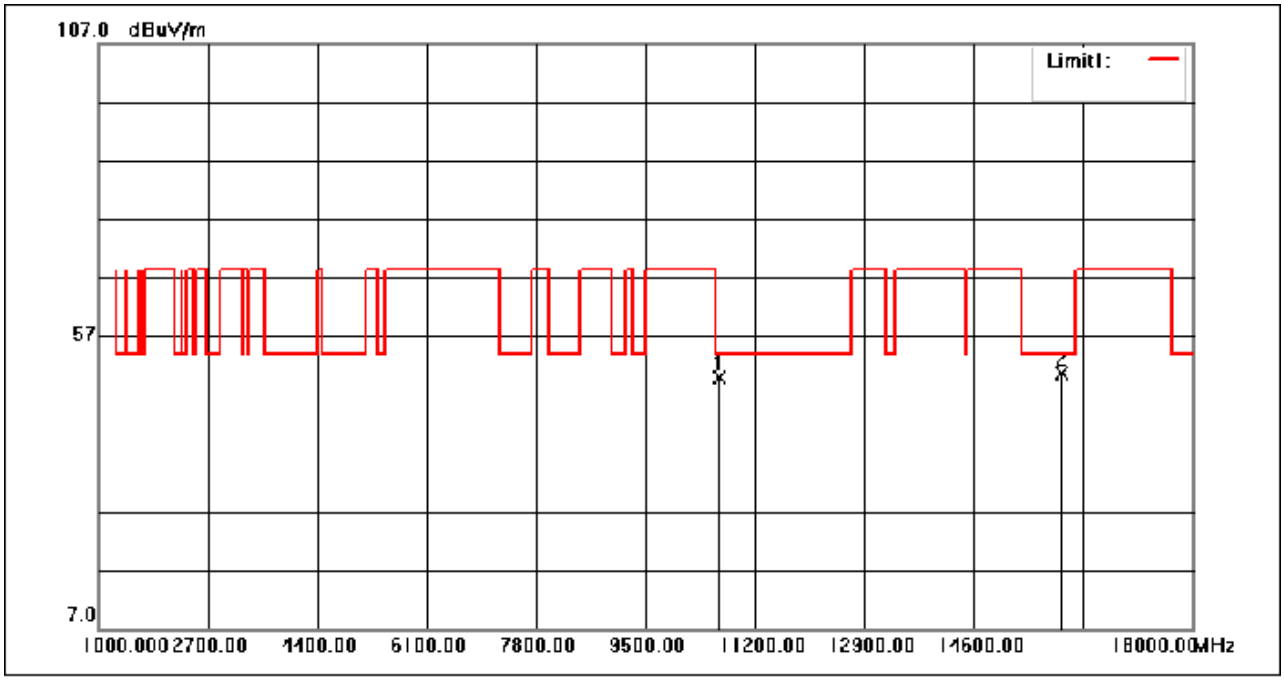
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10640.000 | 49.39 | 0.46 | 49.85 | 54.00 | -4.15 | peak |
| 2 | 15960.000 | 44.14 | 6.60 | 50.74 | 54.00 | -3.26 | peak |

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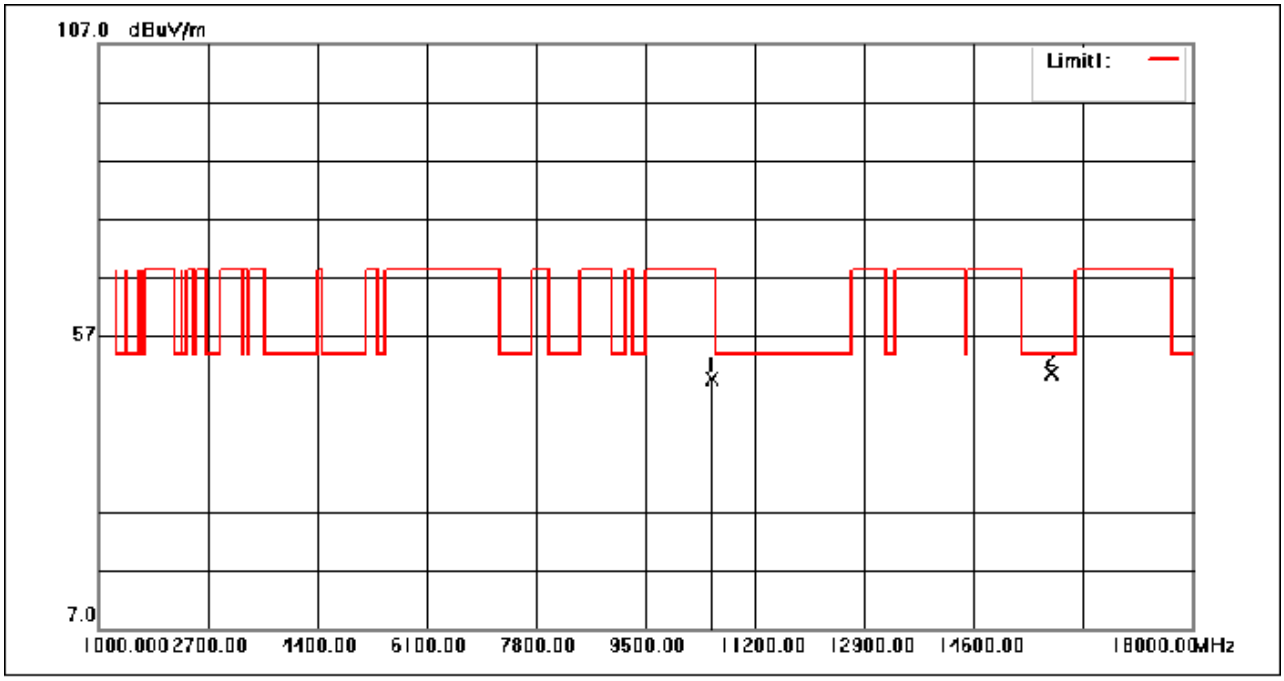
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10540.000 | 49.21 | 0.44 | 49.65 | 68.30 | -18.65 | peak |
| 2 | 15810.000 | 44.44 | 6.29 | 50.73 | 54.00 | -3.27 | peak |

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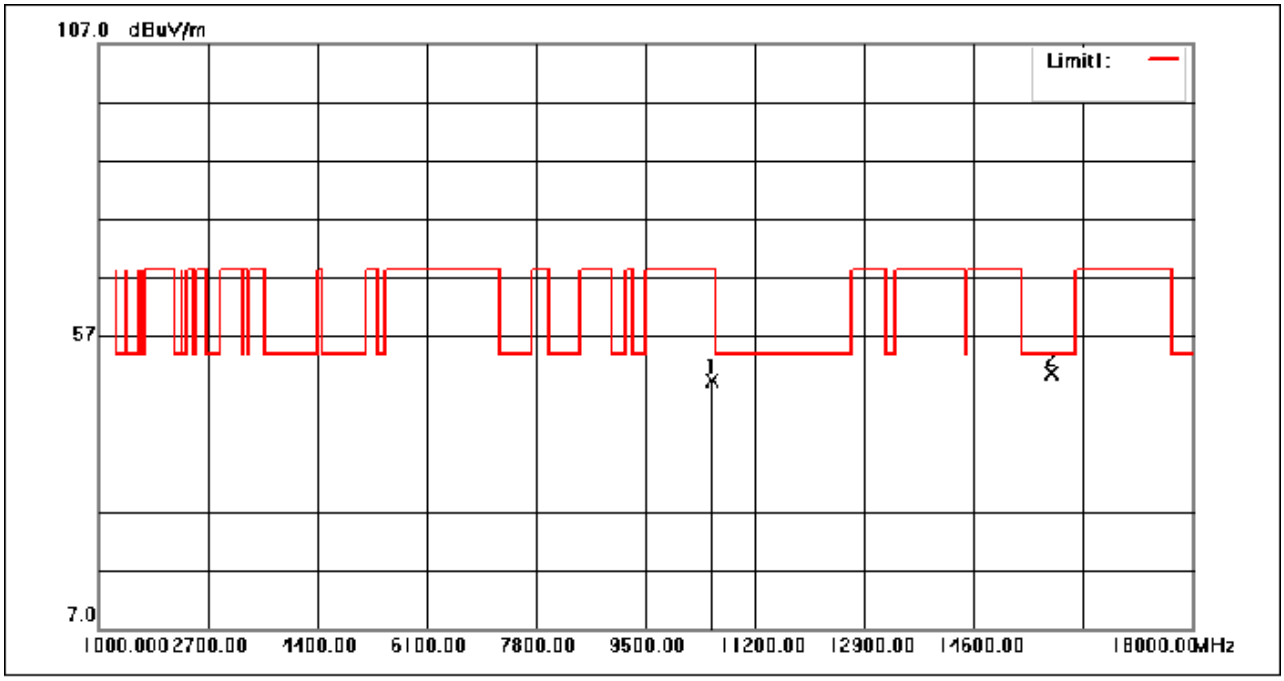
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10540.000 | 49.03 | 0.44 | 49.47 | 68.30 | -18.83 | peak |
| 2 | 15810.000 | 44.43 | 6.29 | 50.72 | 54.00 | -3.28 | peak |

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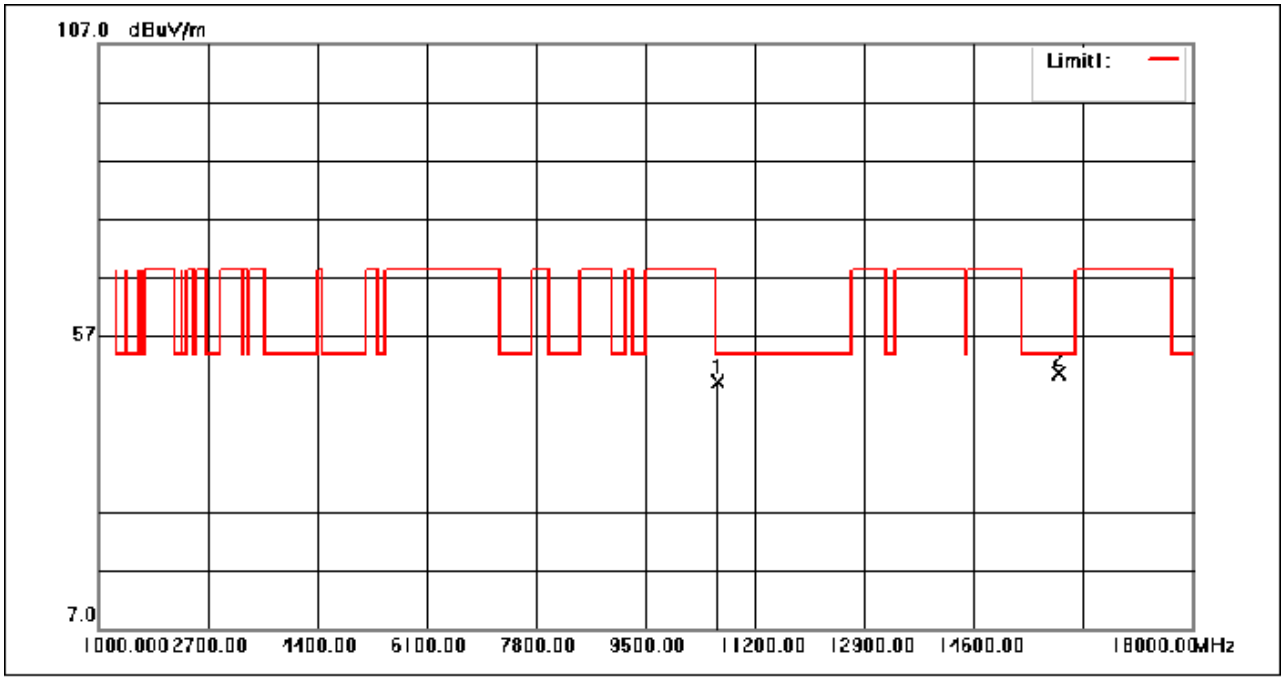
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10620.000 | 48.56 | 0.46 | 49.02 | 54.00 | -4.98 | peak |
| 2 | 15930.000 | 44.20 | 6.54 | 50.74 | 54.00 | -3.26 | peak |

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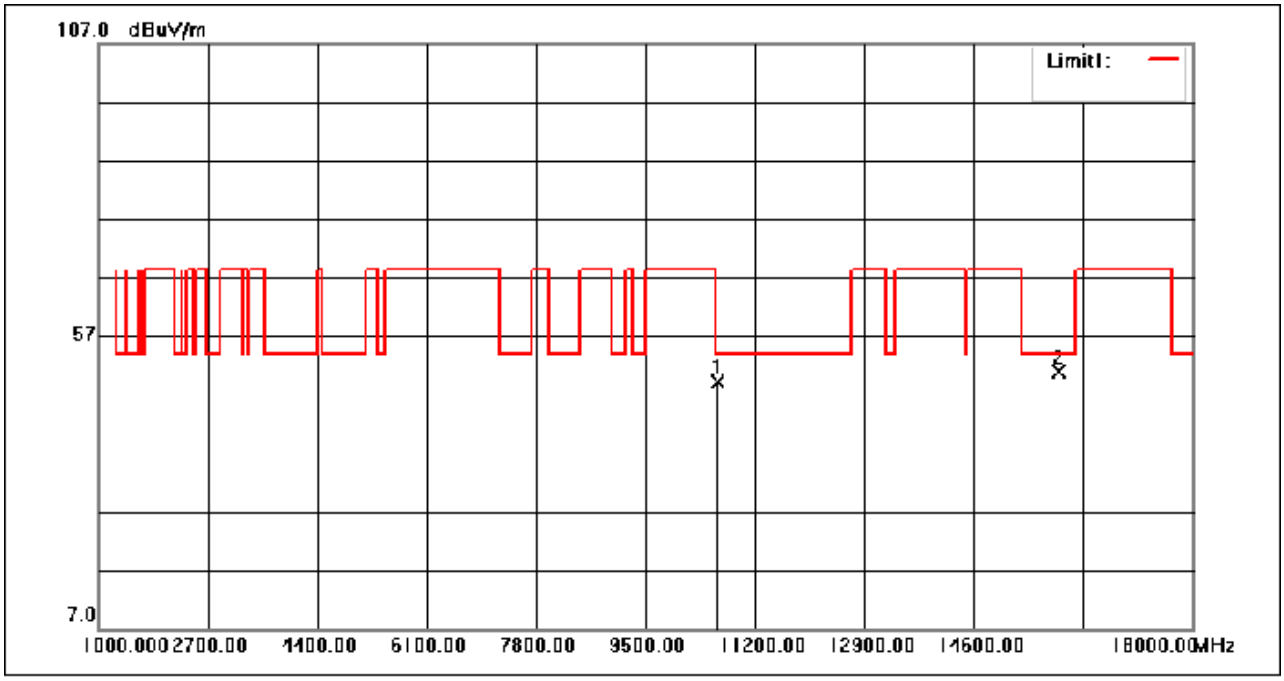
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10620.000 | 48.58 | 0.46 | 49.04 | 54.00 | -4.96 | peak |
| 2 | 15930.000 | 44.26 | 6.54 | 50.80 | 54.00 | -3.20 | peak |

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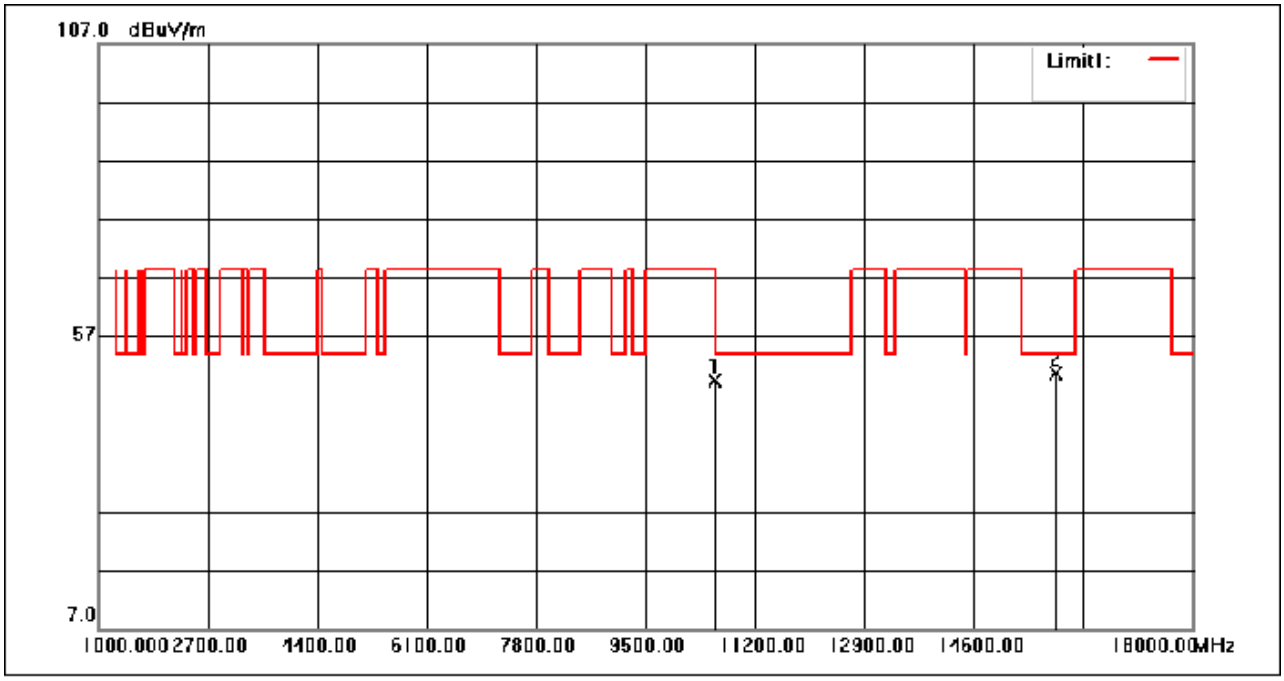
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10580.000 | 48.96 | 0.46 | 49.42 | 68.30 | -18.88 | peak |
| 2 | 15870.000 | 44.12 | 6.41 | 50.53 | 54.00 | -3.47 | peak |

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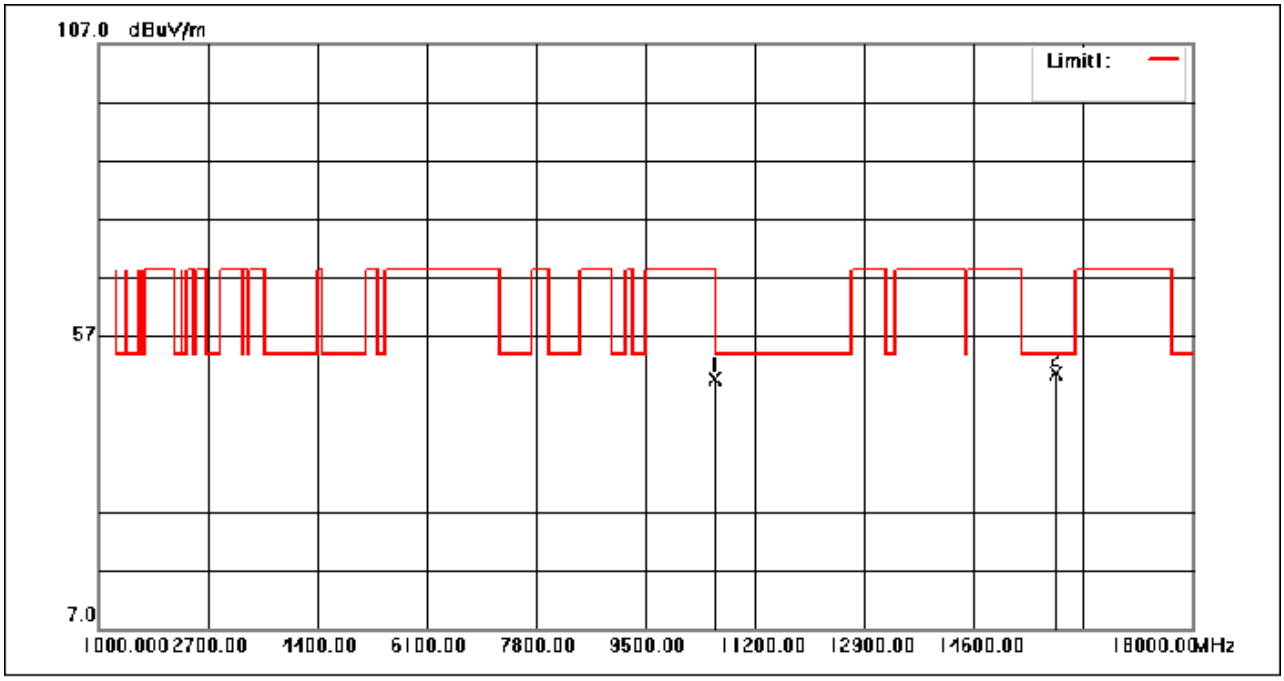
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 10580.000 | 49.06 | 0.46 | 49.52 | 68.30 | -18.78 | peak |
| 2 | 15870.000 | 44.10 | 6.41 | 50.51 | 54.00 | -3.49 | peak |

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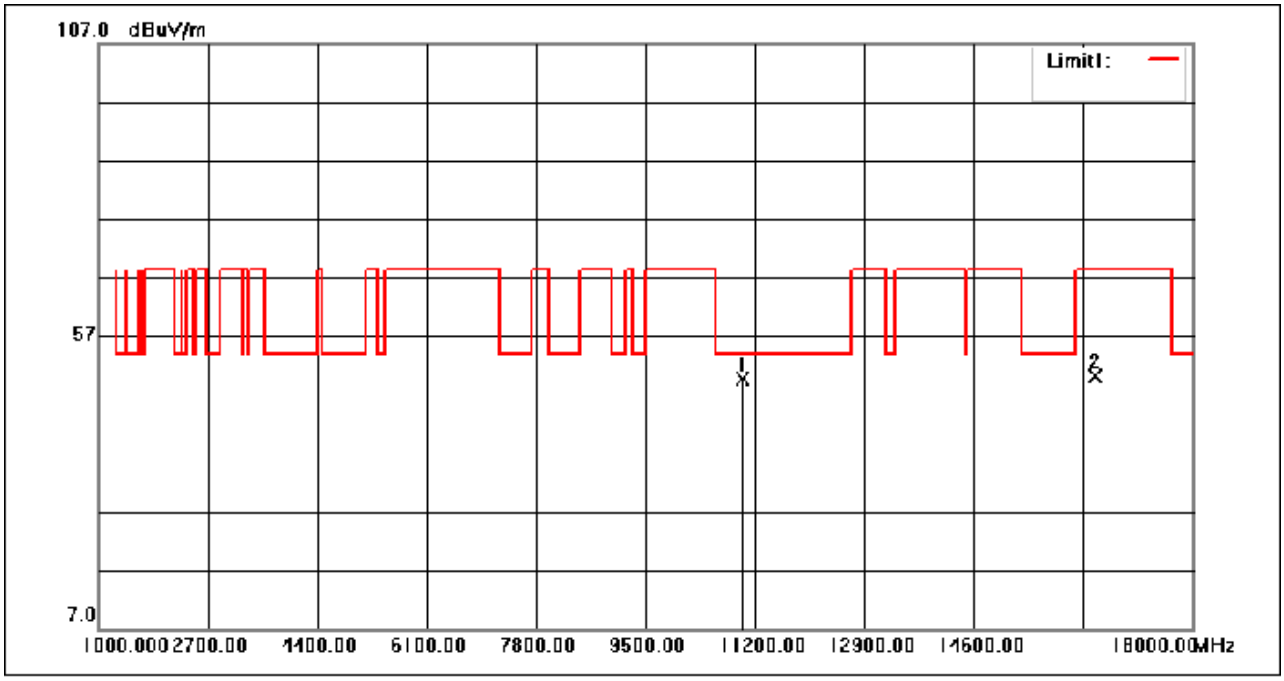
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11000.000 | 49.04 | 0.54 | 49.58 | 54.00 | -4.42 | peak |
| 2 | 16500.000 | 41.80 | 8.43 | 50.23 | 68.30 | -18.07 | peak |

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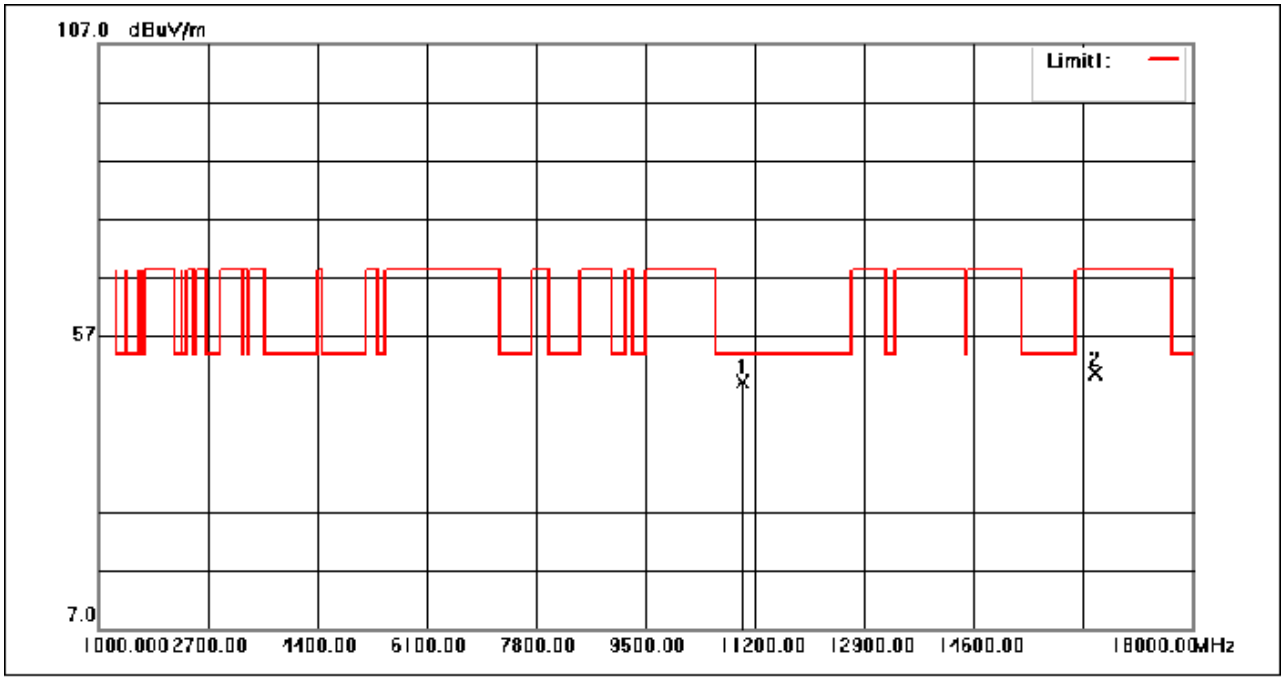
Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11000.000 | 48.71 | 0.54 | 49.25 | 54.00 | -4.75 | peak |
| 2 | 16500.000 | 42.18 | 8.43 | 50.61 | 68.30 | -17.69 | peak |

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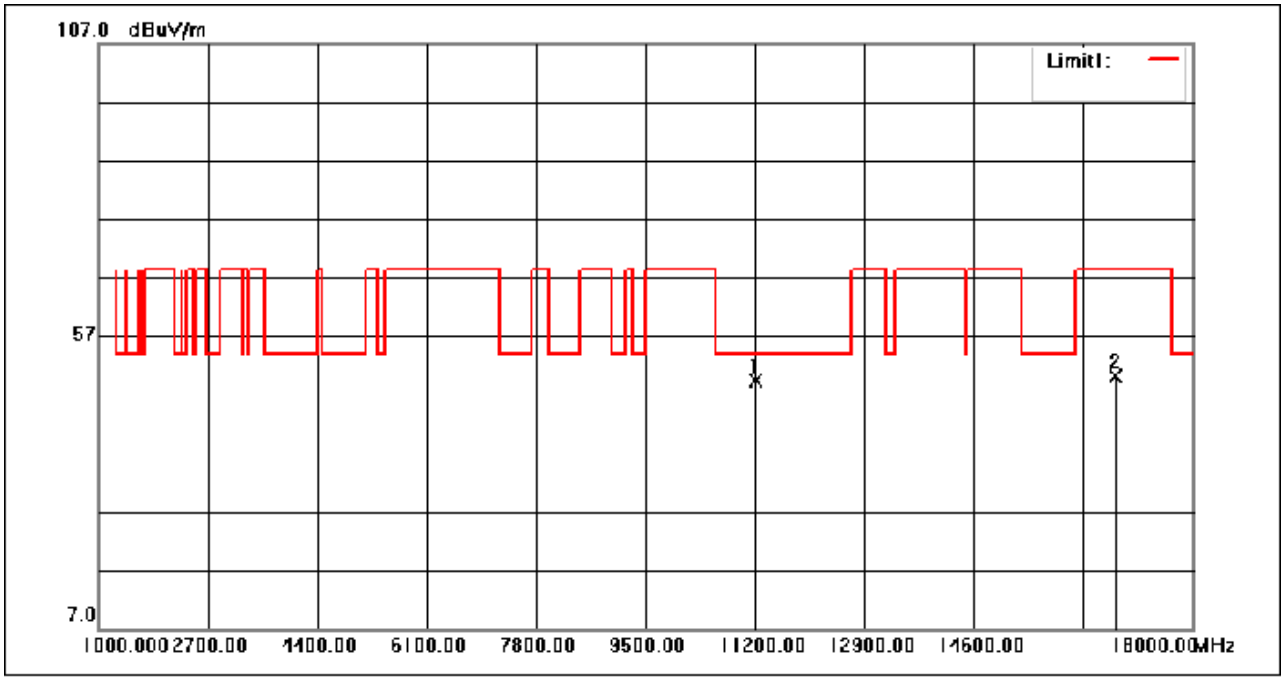
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11200.000 | 48.67 | 0.71 | 49.38 | 54.00 | -4.62 | peak |
| 2 | 16800.000 | 41.26 | 8.89 | 50.15 | 68.30 | -18.15 | peak |

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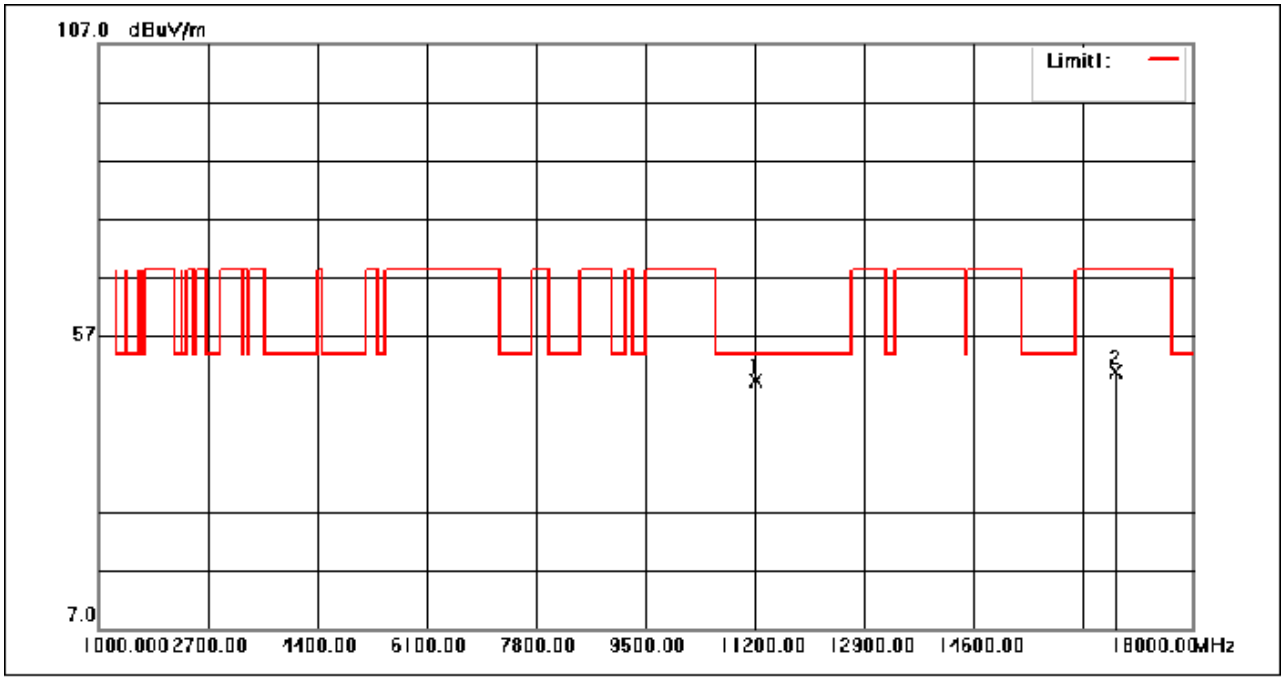
Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11200.000 | 48.61 | 0.71 | 49.32 | 54.00 | -4.68 | peak |
| 2 | 16800.000 | 41.96 | 8.89 | 50.85 | 68.30 | -17.45 | peak |

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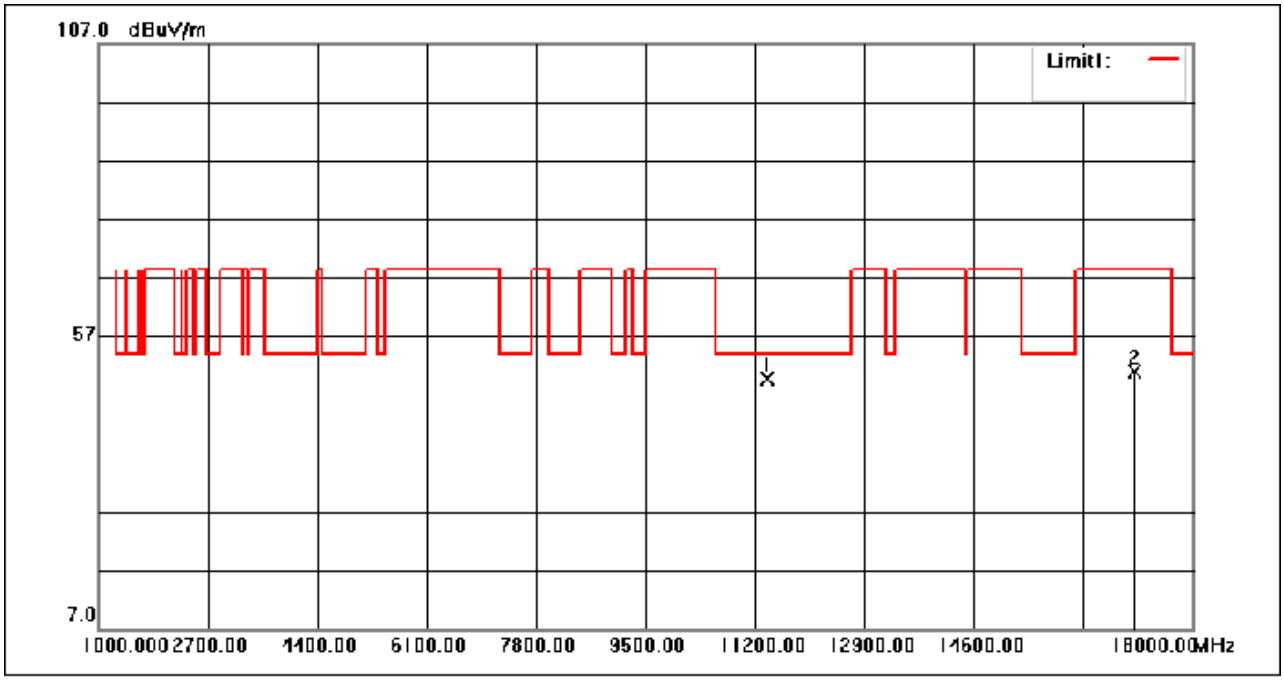
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11400.000 | 48.71 | 0.87 | 49.58 | 54.00 | -4.42 | peak |
| 2 | 17100.000 | 41.86 | 9.13 | 50.99 | 68.30 | -17.31 | peak |

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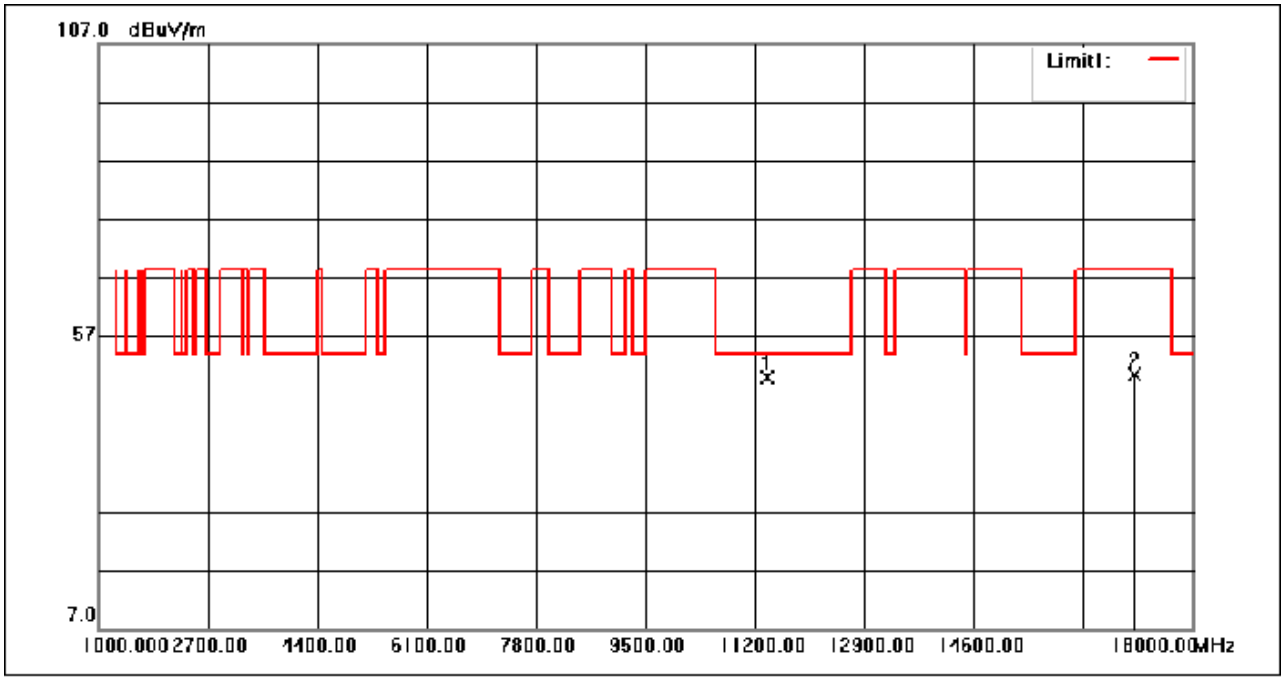
Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11400.000 | 49.05 | 0.87 | 49.92 | 54.00 | -4.08 | peak |
| 2 | 17100.000 | 41.22 | 9.13 | 50.35 | 68.30 | -17.95 | peak |

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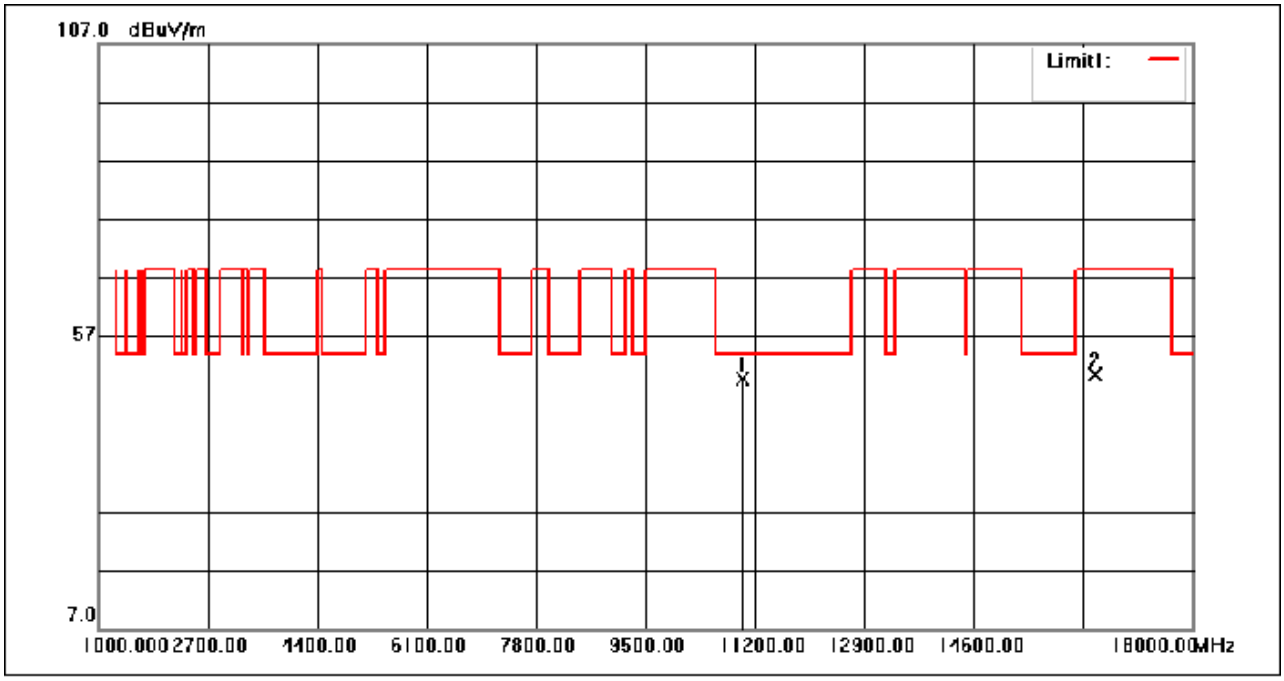
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11000.000 | 49.00 | 0.54 | 49.54 | 54.00 | -4.46 | peak |
| 2 | 16500.000 | 42.01 | 8.43 | 50.44 | 68.30 | -17.86 | peak |

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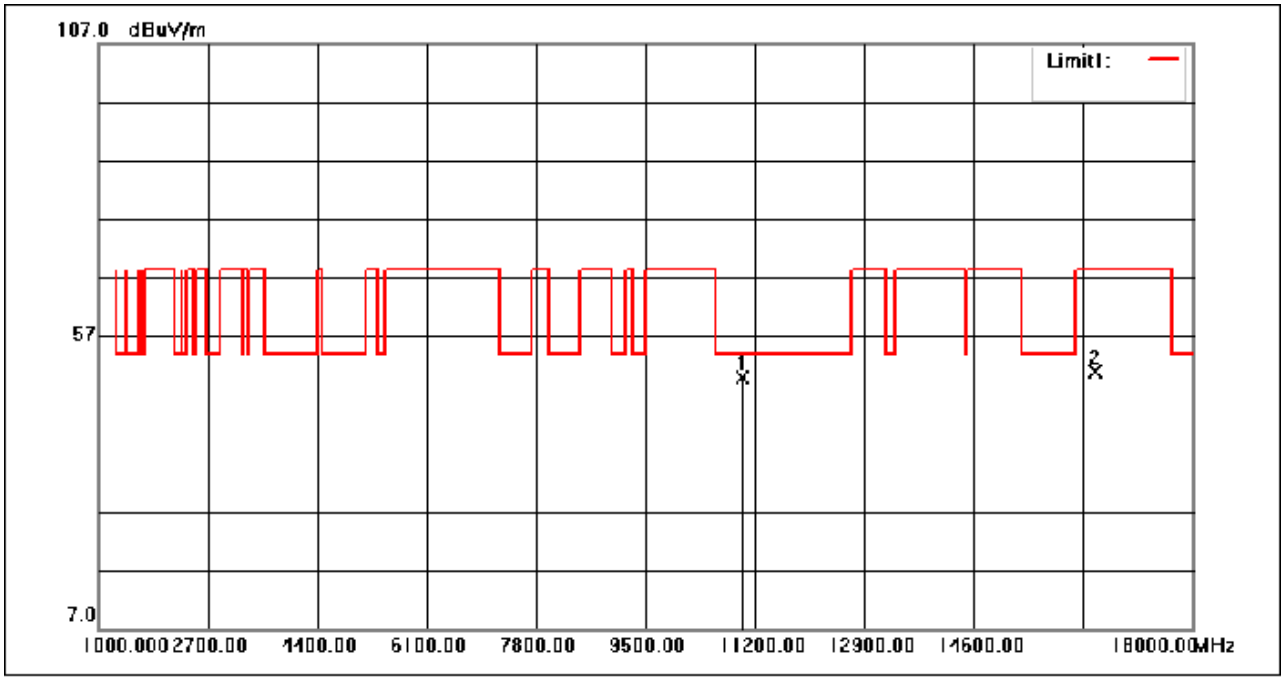
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11000.000 | 49.42 | 0.54 | 49.96 | 54.00 | -4.04 | peak |
| 2 | 16500.000 | 42.42 | 8.43 | 50.85 | 68.30 | -17.45 | peak |

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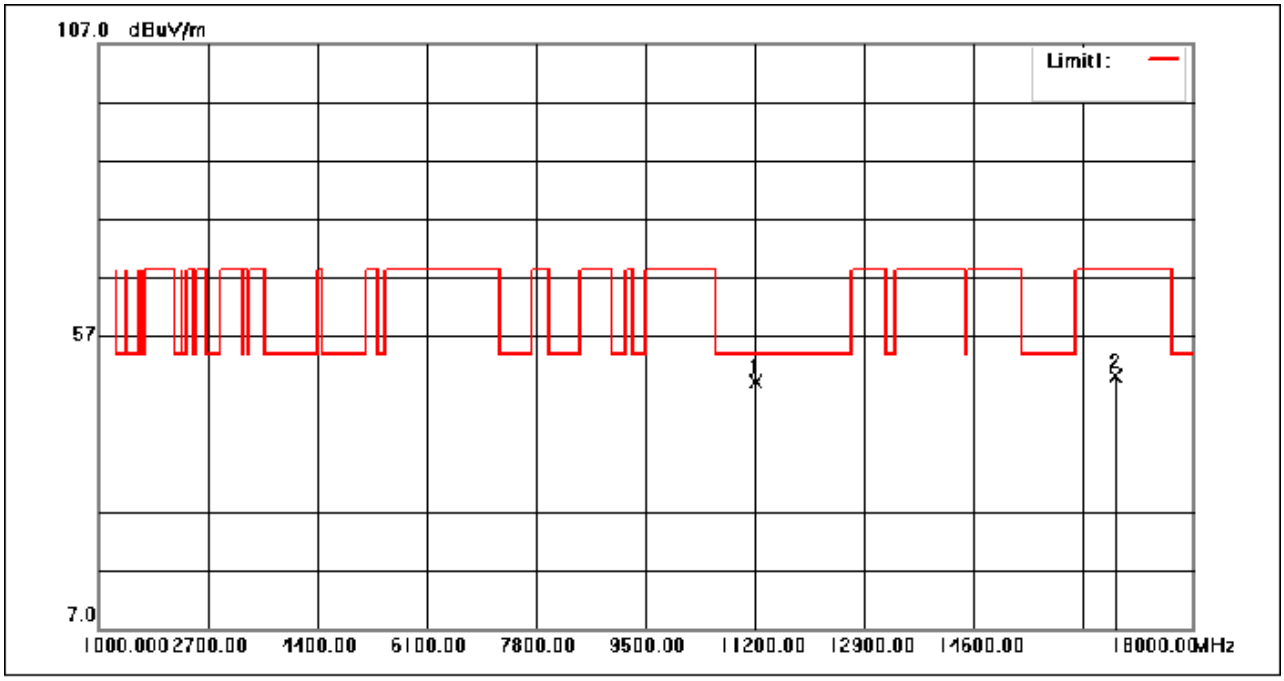
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11200.000 | 48.35 | 0.71 | 49.06 | 54.00 | -4.94 | peak |
| 2 | 16800.000 | 41.12 | 8.89 | 50.01 | 68.30 | -18.29 | peak |

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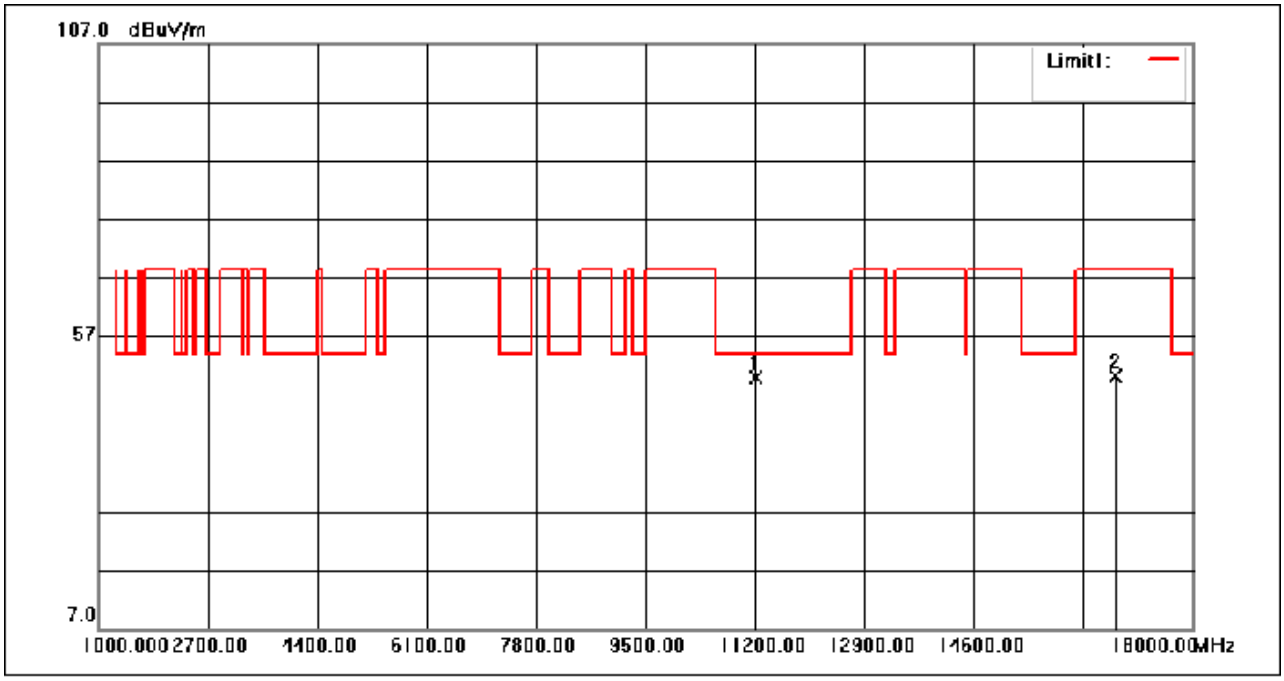
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11200.000 | 49.25 | 0.71 | 49.96 | 54.00 | -4.04 | peak |
| 2 | 16800.000 | 41.32 | 8.89 | 50.21 | 68.30 | -18.09 | peak |

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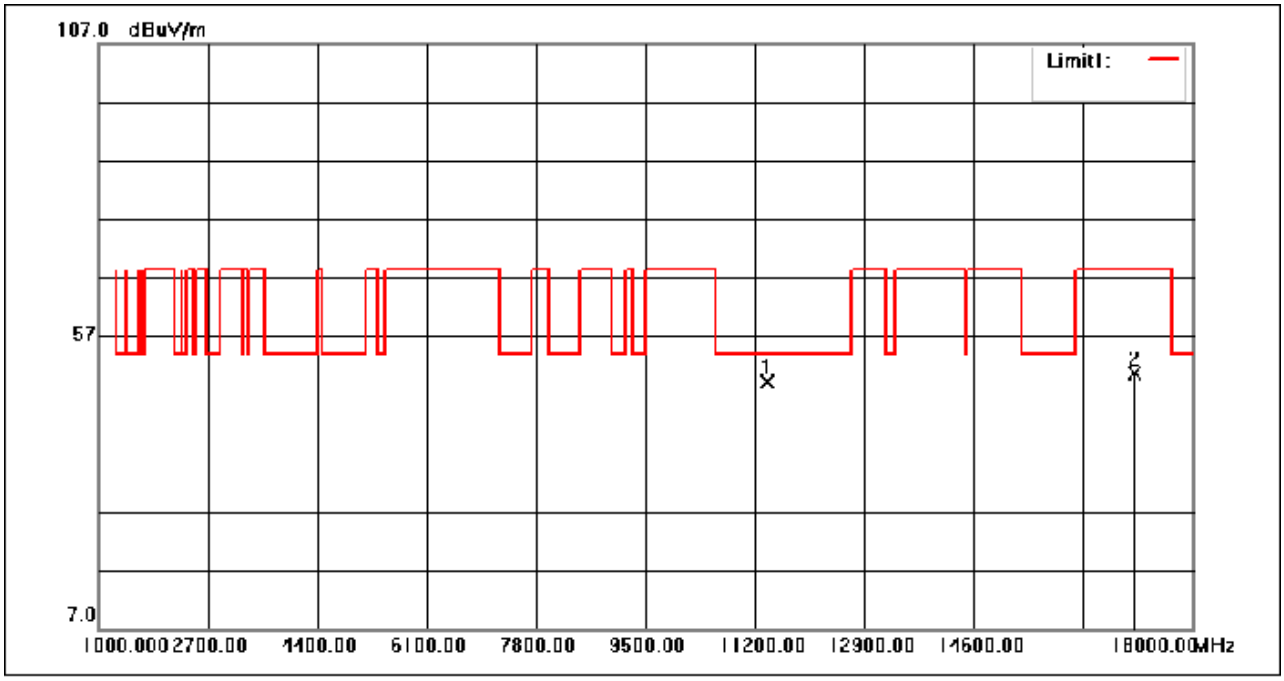
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11400.000 | 48.25 | 0.87 | 49.12 | 54.00 | -4.88 | peak |
| 2 | 17100.000 | 41.56 | 9.13 | 50.69 | 68.30 | -17.61 | peak |

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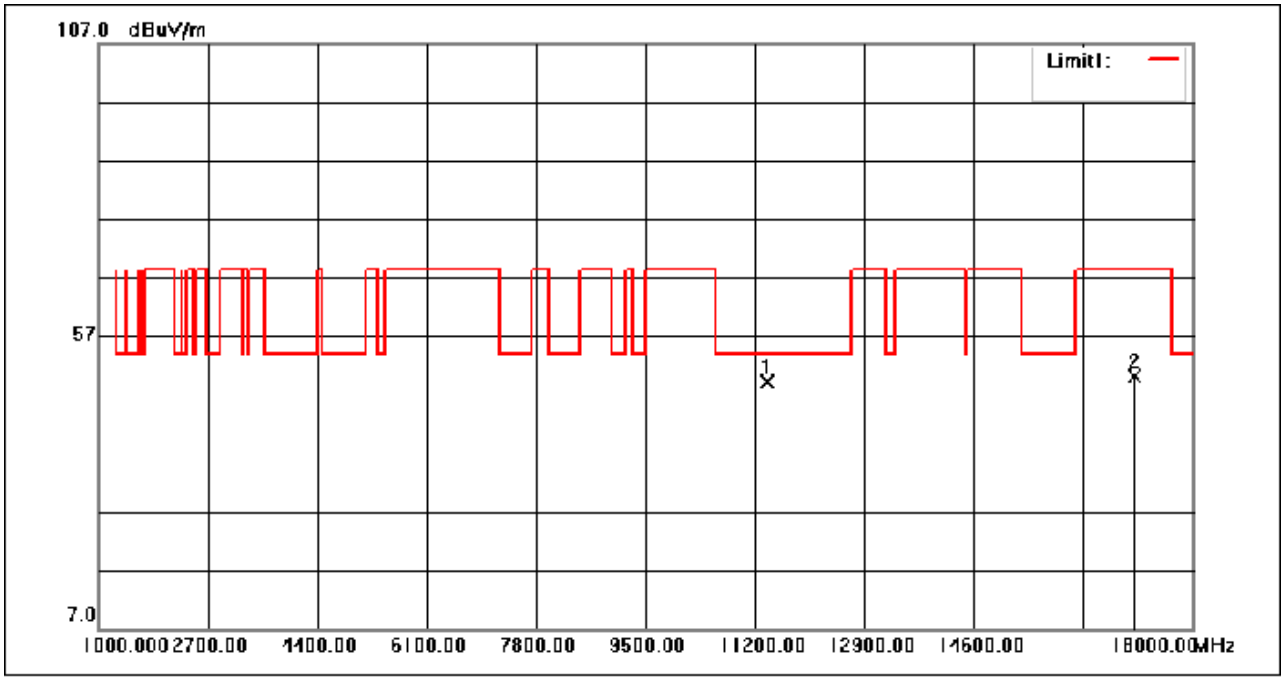
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11400.000 | 48.16 | 0.87 | 49.03 | 54.00 | -4.97 | peak |
| 2 | 17100.000 | 41.03 | 9.13 | 50.16 | 68.30 | -18.14 | peak |

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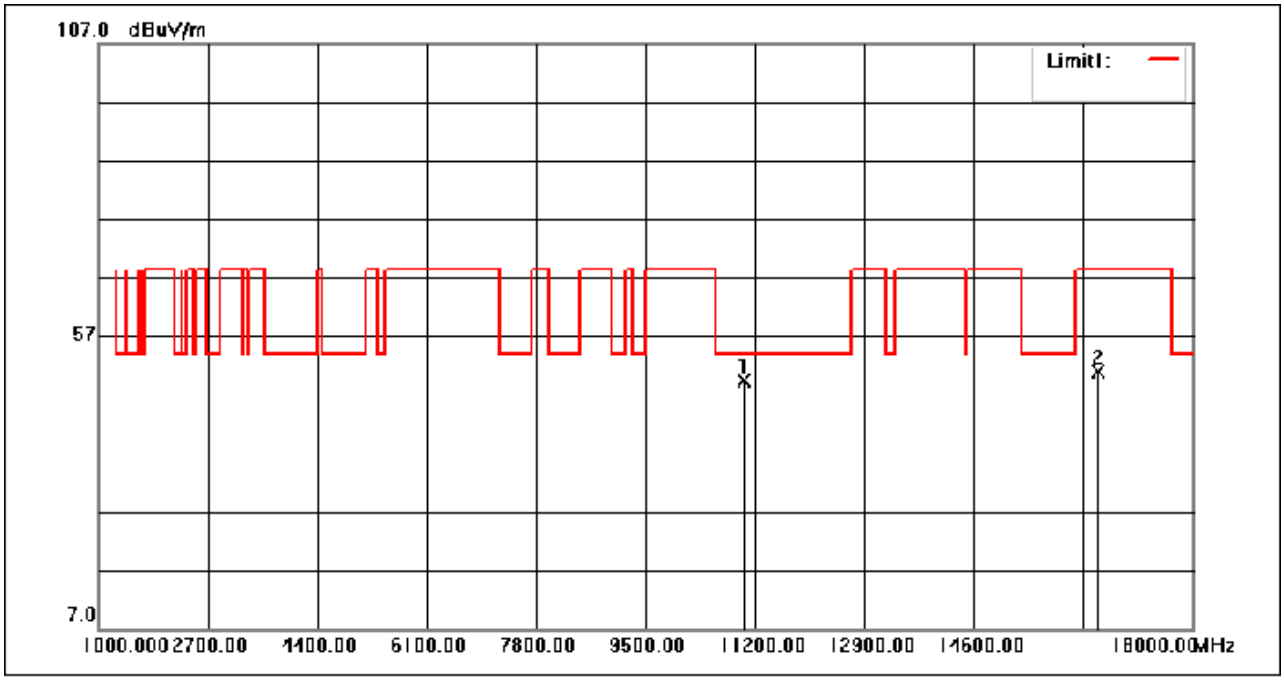
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11020.000 | 48.77 | 0.56 | 49.33 | 54.00 | -4.67 | peak |
| 2 | 16530.000 | 42.33 | 8.47 | 50.80 | 68.30 | -17.50 | peak |

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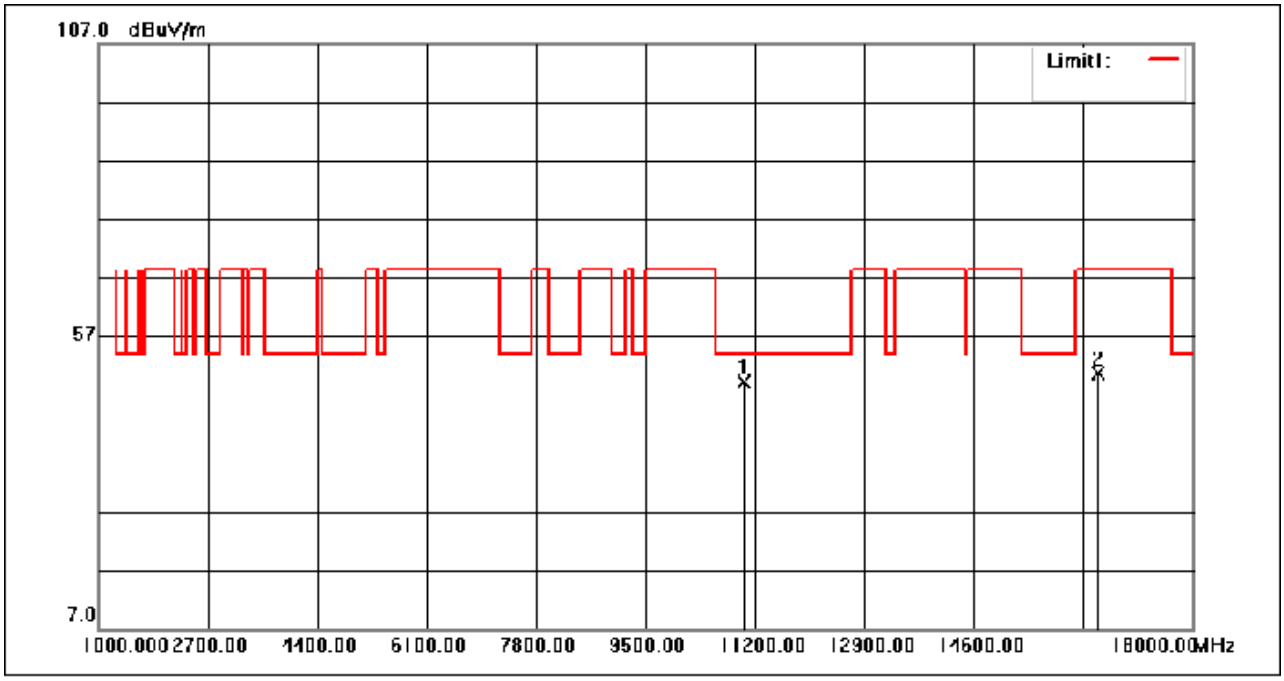
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11020.000 | 48.63 | 0.56 | 49.19 | 54.00 | -4.81 | peak |
| 2 | 16530.000 | 42.27 | 8.47 | 50.74 | 68.30 | -17.56 | peak |

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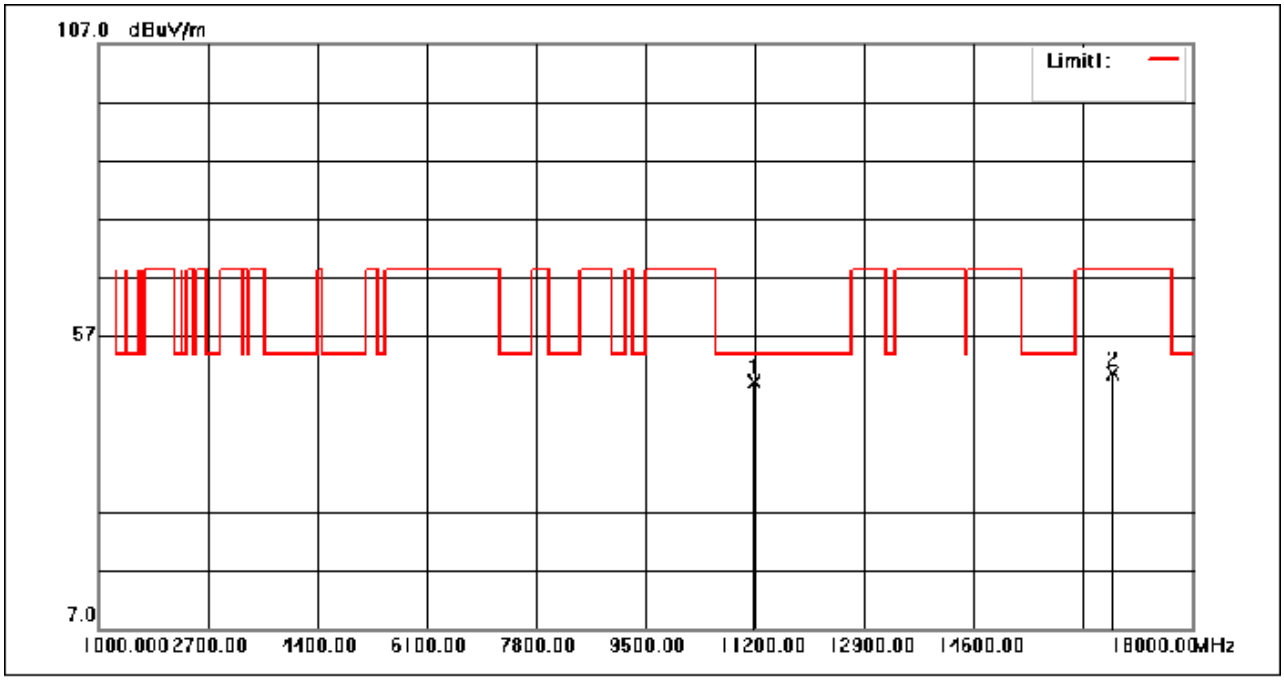
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11180.000 | 48.40 | 0.69 | 49.09 | 54.00 | -4.91 | peak |
| 2 | 16770.000 | 41.84 | 8.84 | 50.68 | 68.30 | -17.62 | peak |

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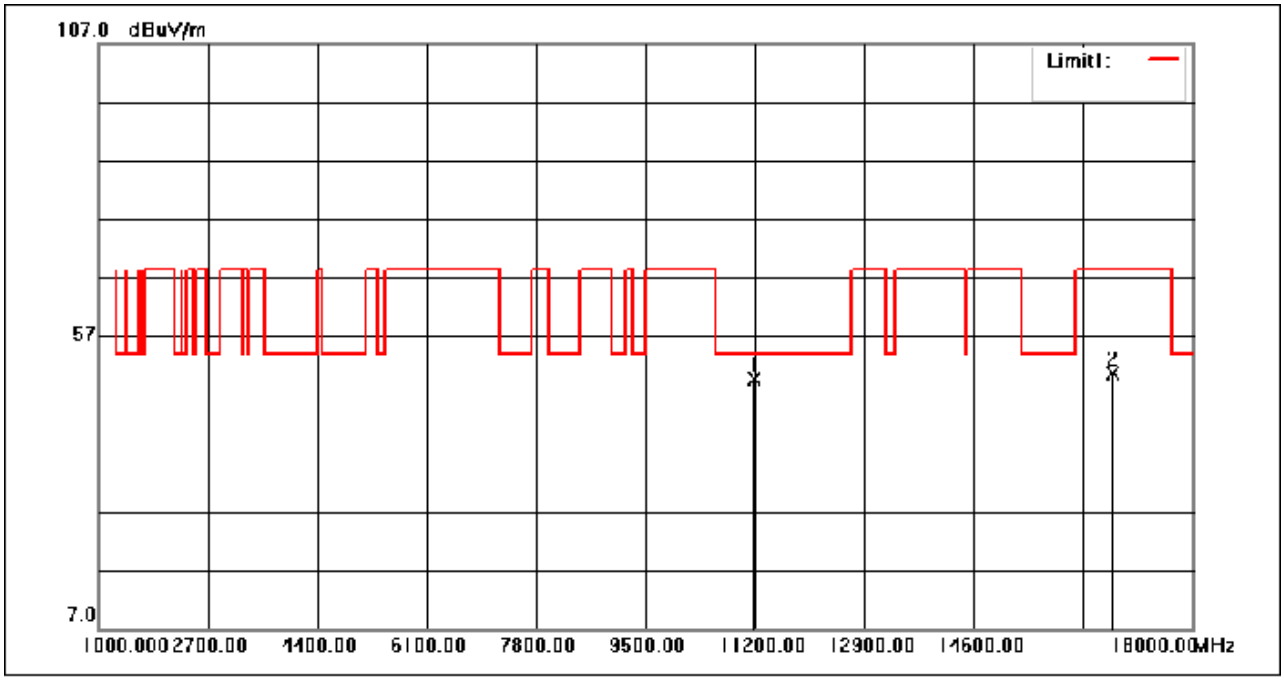
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11180.000 | 48.87 | 0.69 | 49.56 | 54.00 | -4.44 | peak |
| 2 | 16770.000 | 41.81 | 8.84 | 50.65 | 68.30 | -17.65 | peak |

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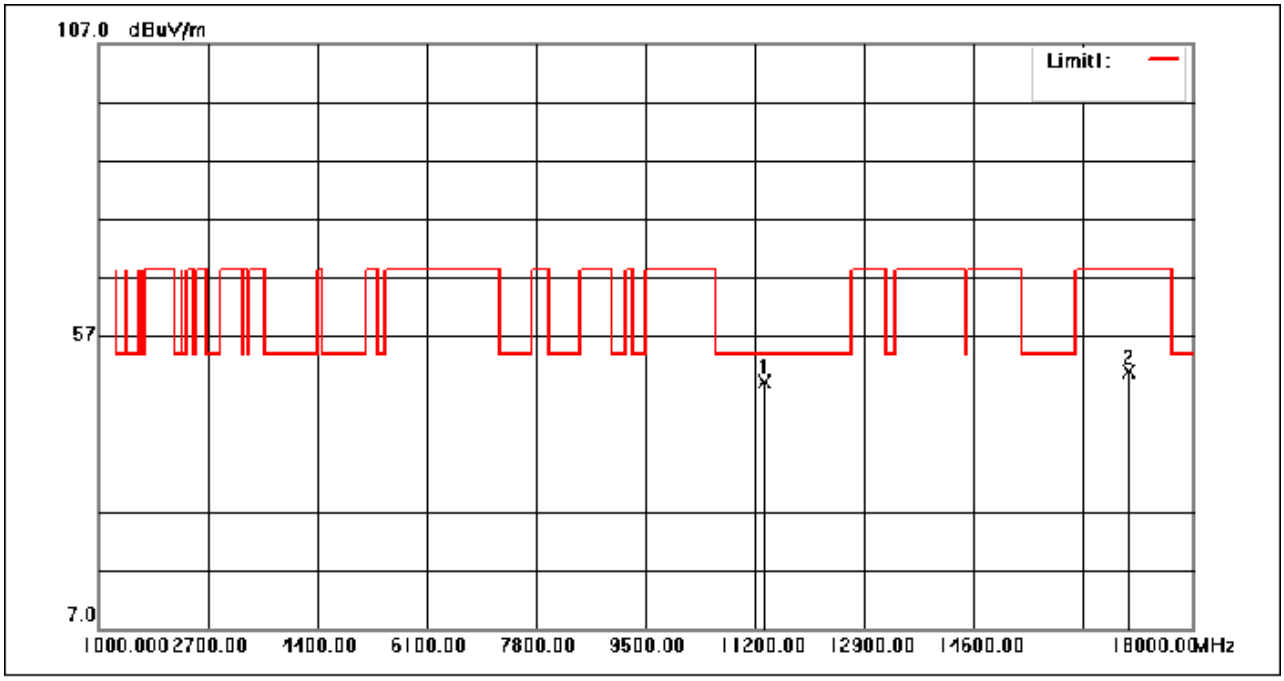
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11340.000 | 48.33 | 0.82 | 49.15 | 54.00 | -4.85 | peak |
| 2 | 17010.000 | 41.80 | 9.18 | 50.98 | 68.30 | -17.32 | peak |

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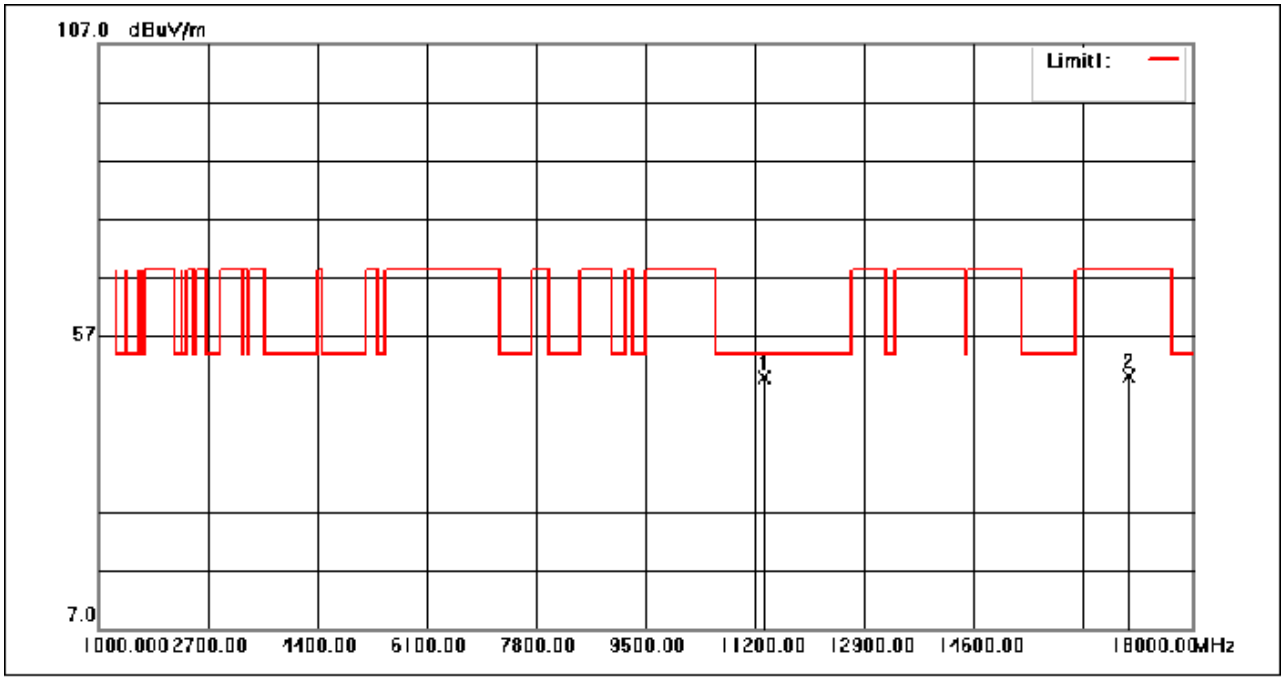
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11340.000 | 49.13 | 0.82 | 49.95 | 54.00 | -4.05 | peak |
| 2 | 17010.000 | 40.91 | 9.18 | 50.09 | 68.30 | -18.21 | peak |

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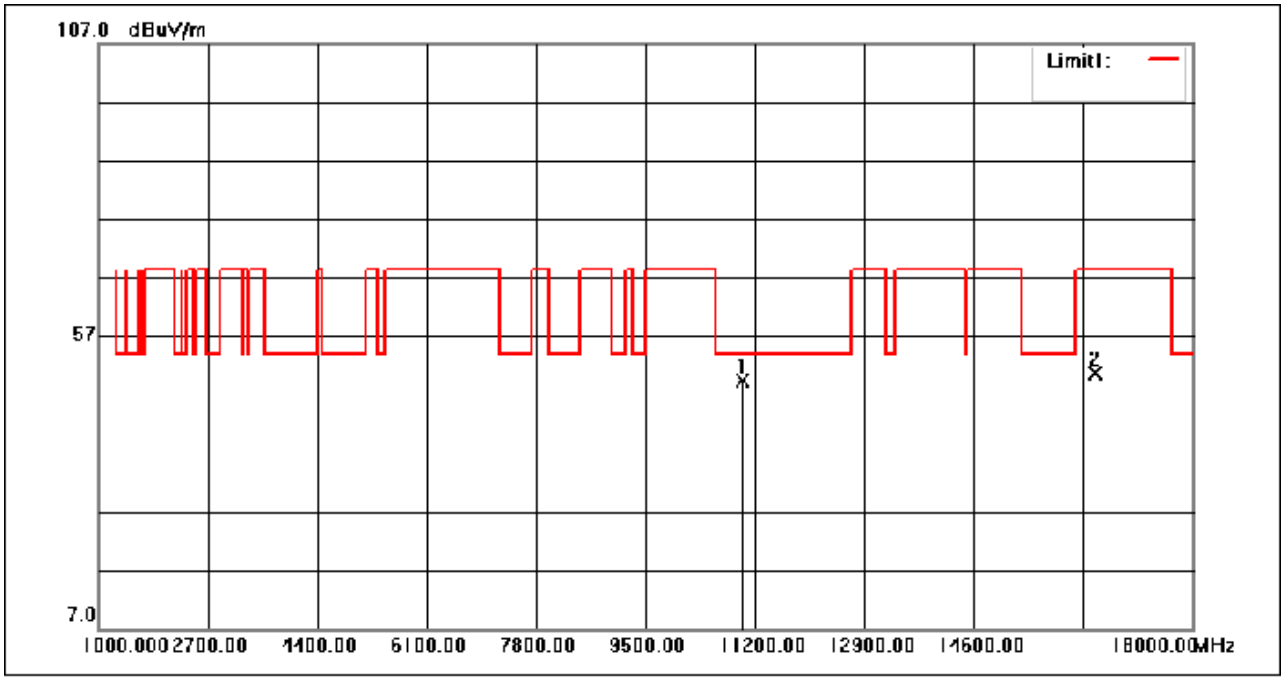
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11000.000 | 48.74 | 0.54 | 49.28 | 54.00 | -4.72 | peak |
| 2 | 16500.000 | 42.22 | 8.43 | 50.65 | 68.30 | -17.65 | peak |

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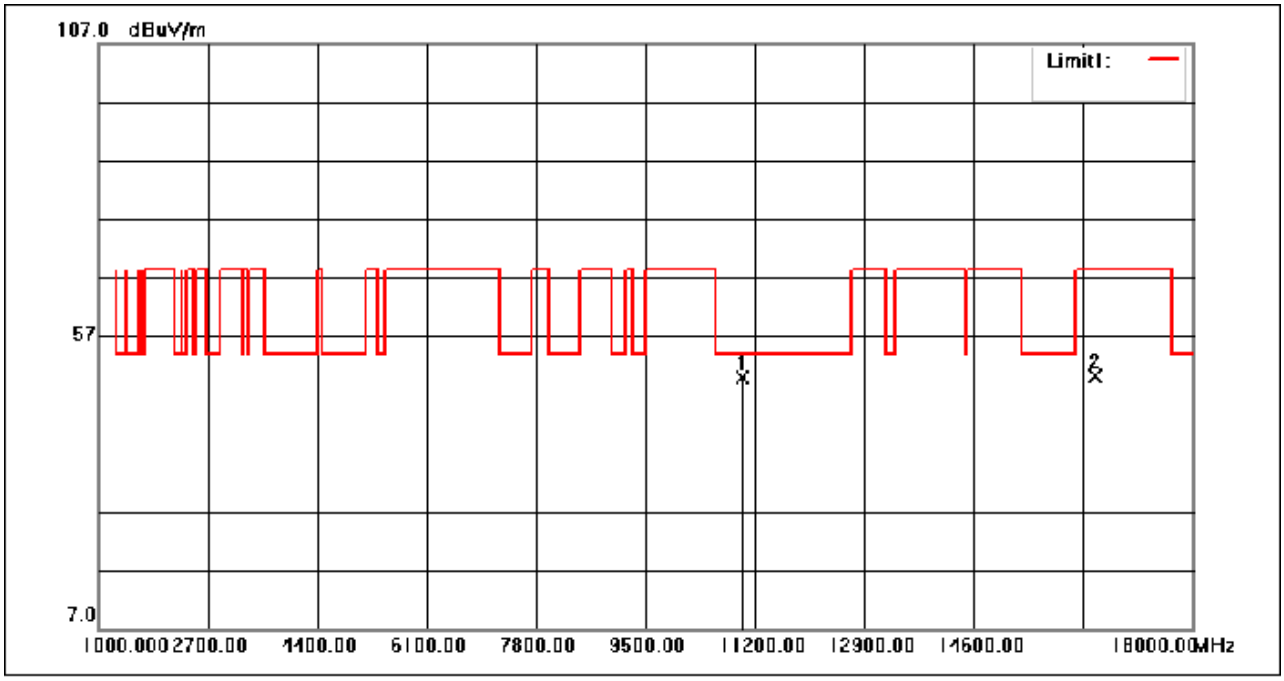
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11000.000 | 49.36 | 0.54 | 49.90 | 54.00 | -4.10 | peak |
| 2 | 16500.000 | 41.68 | 8.43 | 50.11 | 68.30 | -18.19 | peak |

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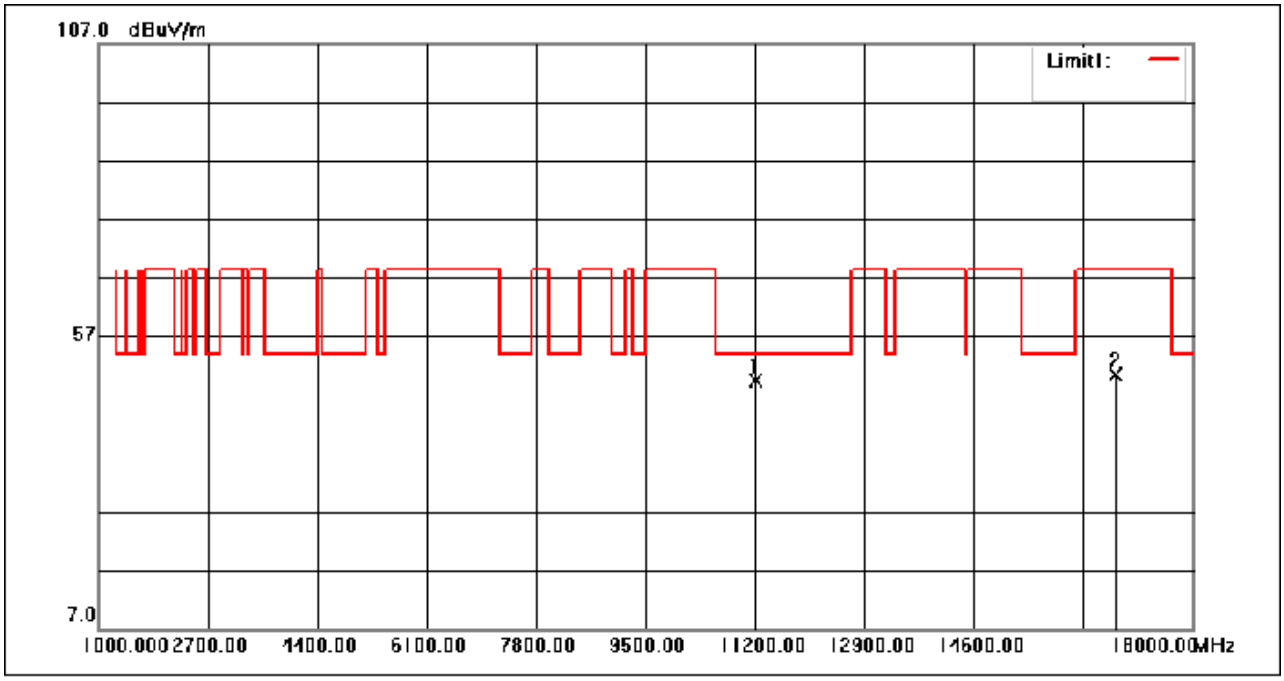
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11200.000 | 48.76 | 0.71 | 49.47 | 54.00 | -4.53 | peak |
| 2 | 16800.000 | 41.47 | 8.89 | 50.36 | 68.30 | -17.94 | peak |

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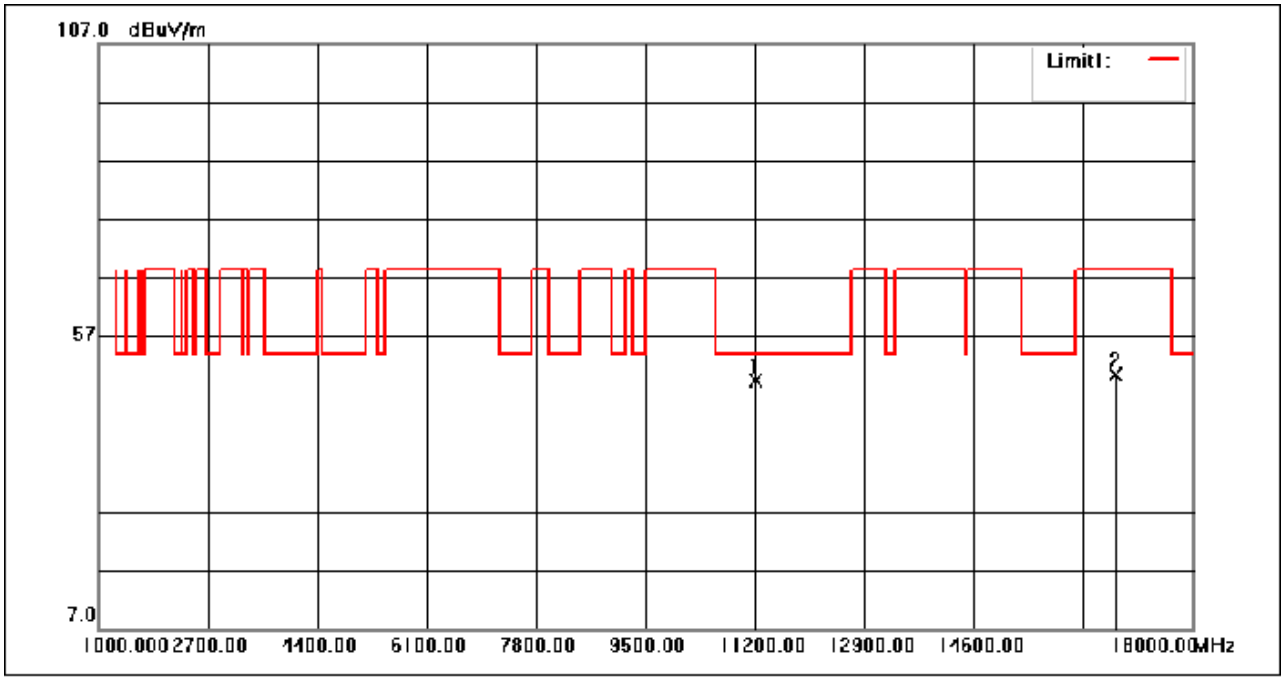
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11200.000 | 48.56 | 0.71 | 49.27 | 54.00 | -4.73 | peak |
| 2 | 16800.000 | 41.46 | 8.89 | 50.35 | 68.30 | -17.95 | peak |

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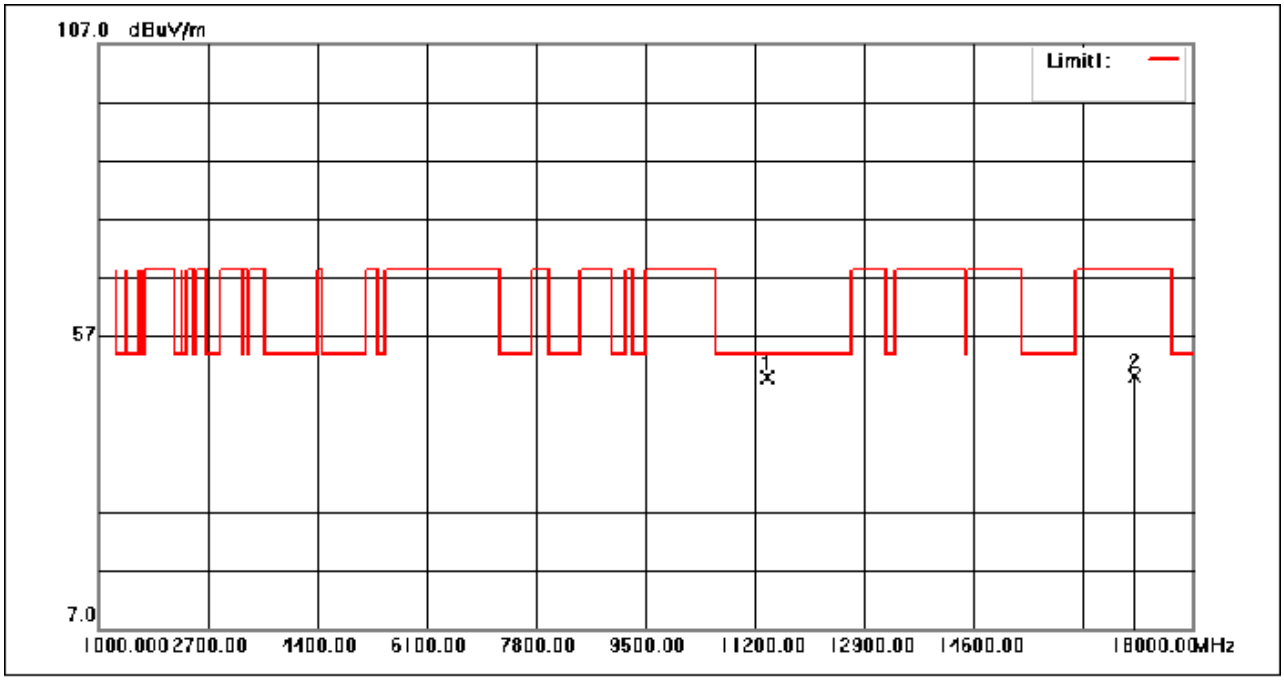
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11400.000 | 49.03 | 0.87 | 49.90 | 54.00 | -4.10 | peak |
| 2 | 17100.000 | 41.08 | 9.13 | 50.21 | 68.30 | -18.09 | peak |

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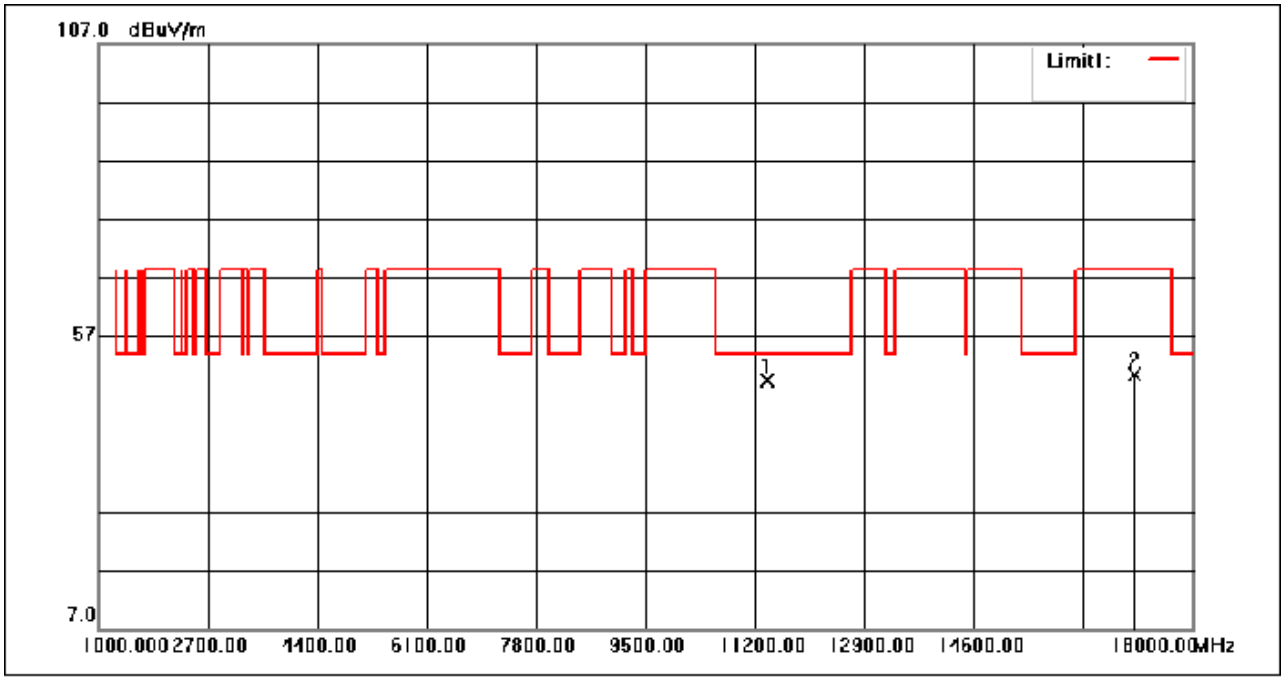
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11400.000 | 48.58 | 0.87 | 49.45 | 54.00 | -4.55 | peak |
| 2 | 17100.000 | 41.15 | 9.13 | 50.28 | 68.30 | -18.02 | peak |

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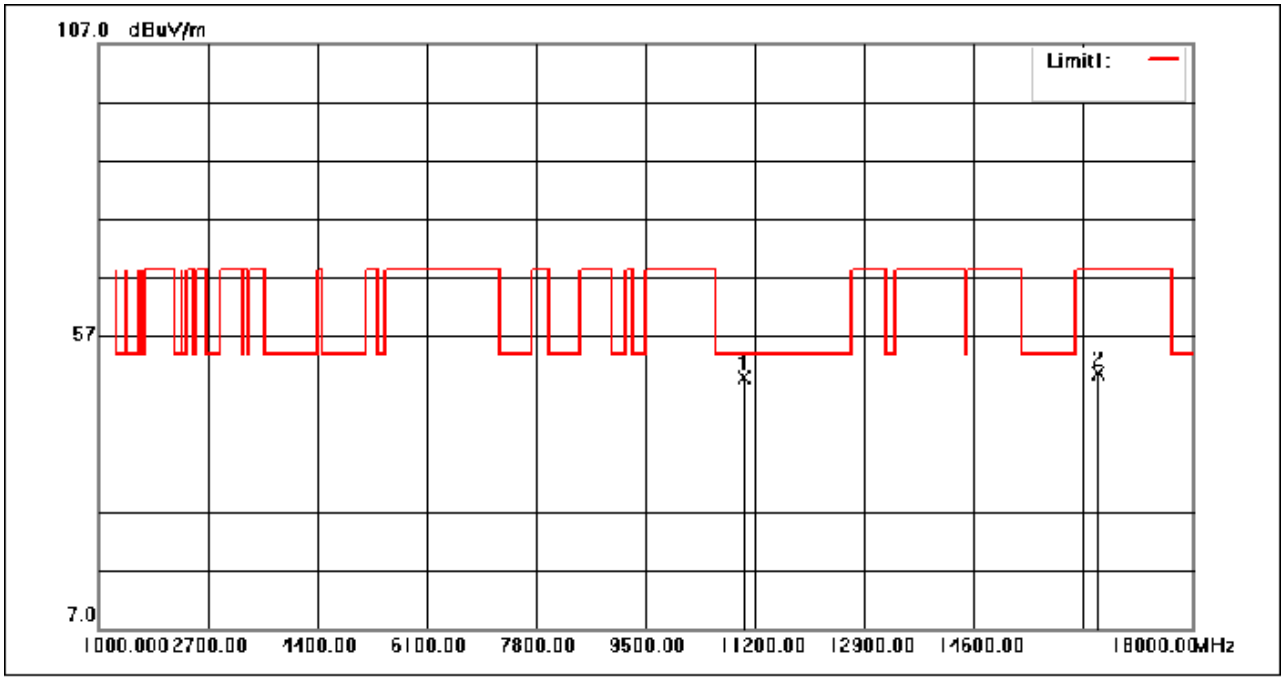
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11020.000 | 49.25 | 0.56 | 49.81 | 54.00 | -4.19 | peak |
| 2 | 16530.000 | 42.07 | 8.47 | 50.54 | 68.30 | -17.76 | peak |

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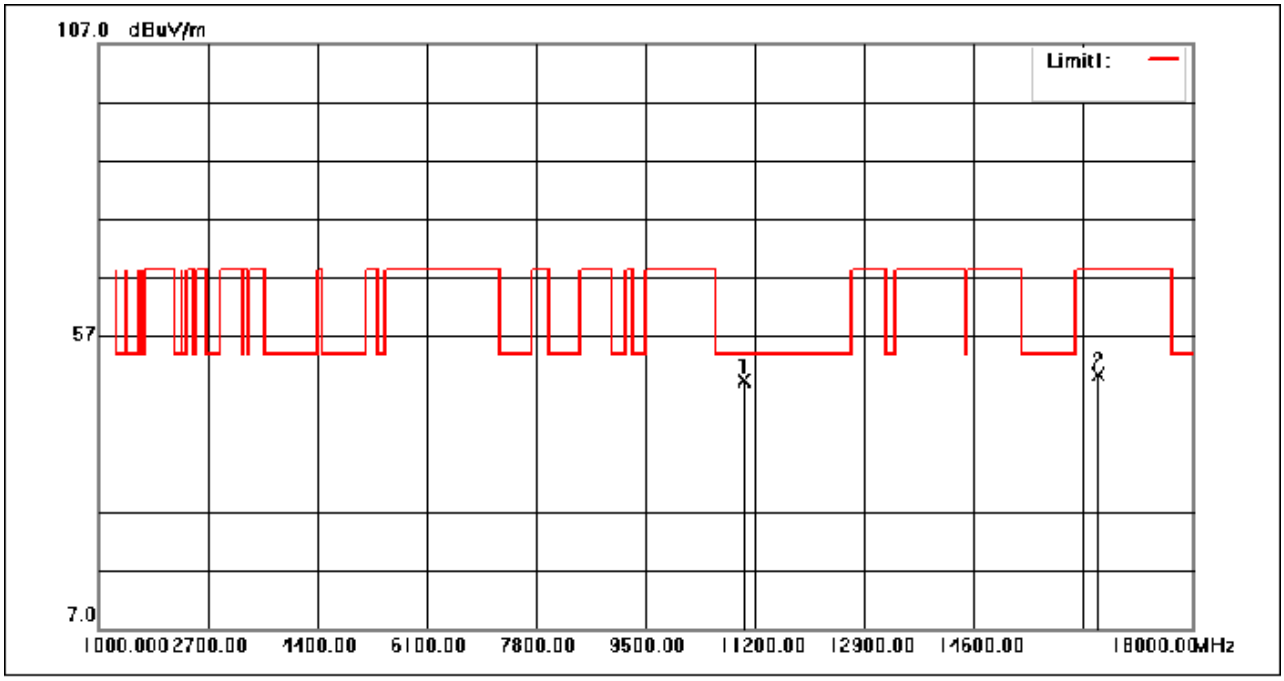
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11020.000 | 48.81 | 0.56 | 49.37 | 54.00 | -4.63 | peak |
| 2 | 16530.000 | 41.85 | 8.47 | 50.32 | 68.30 | -17.98 | peak |

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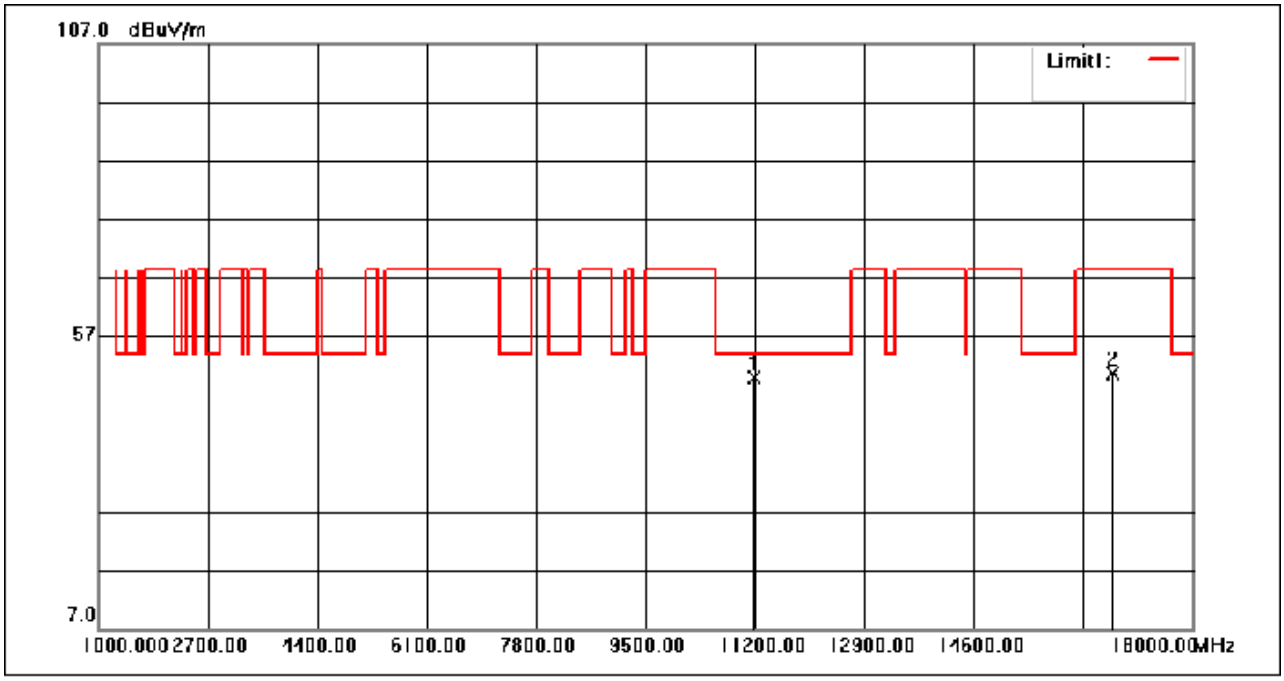
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11180.000 | 49.27 | 0.69 | 49.96 | 54.00 | -4.04 | peak |
| 2 | 16770.000 | 41.83 | 8.84 | 50.67 | 68.30 | -17.63 | peak |

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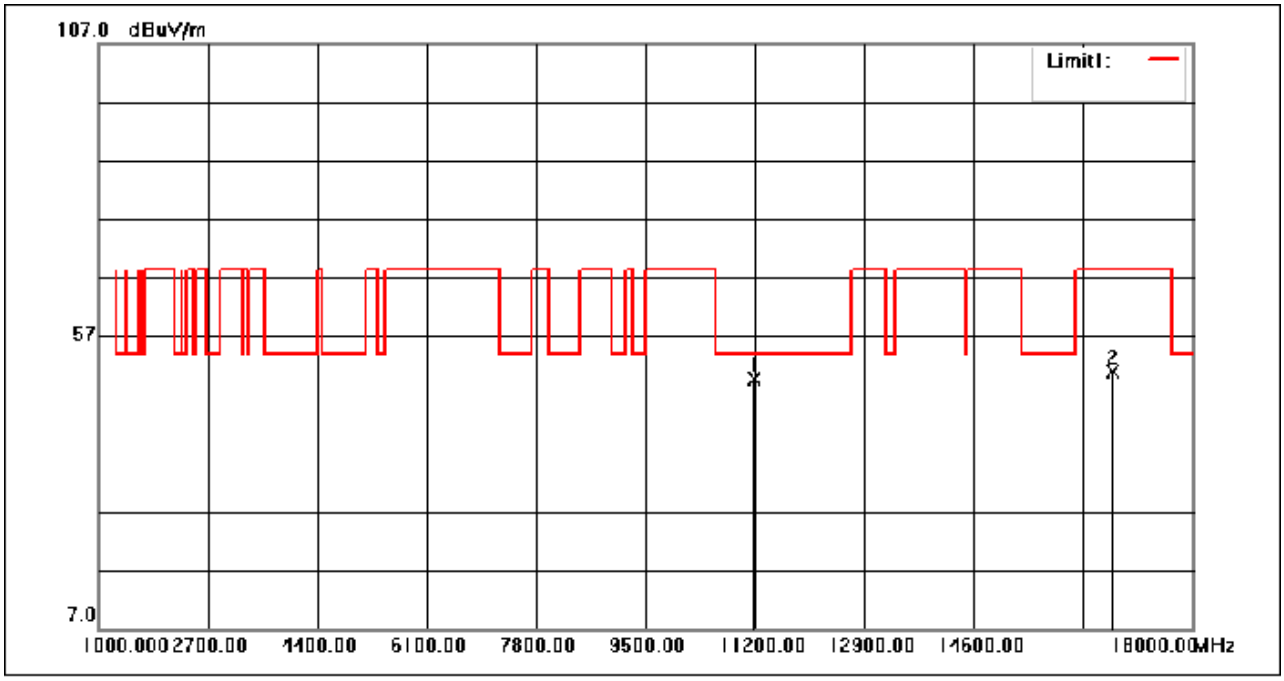
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11180.000 | 48.90 | 0.69 | 49.59 | 54.00 | -4.41 | peak |
| 2 | 16770.000 | 42.06 | 8.84 | 50.90 | 68.30 | -17.40 | peak |

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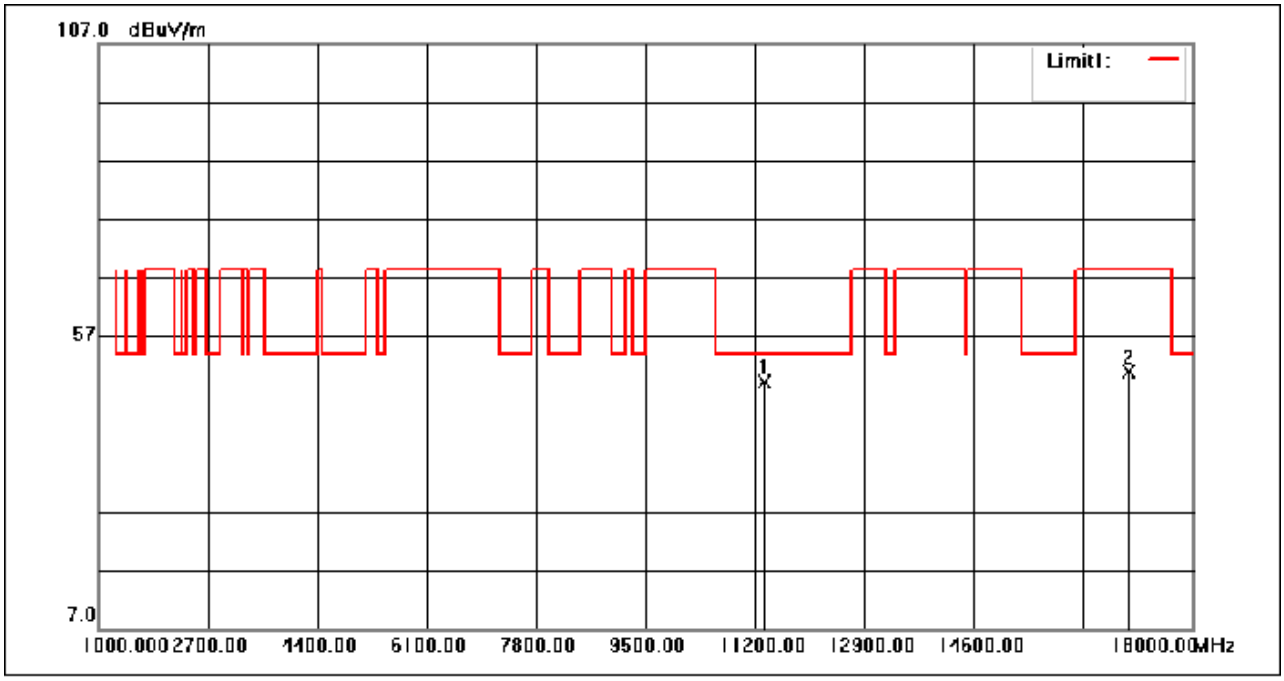
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11340.000 | 48.23 | 0.82 | 49.05 | 54.00 | -4.95 | peak |
| 2 | 17010.000 | 41.59 | 9.18 | 50.77 | 68.30 | -17.53 | peak |

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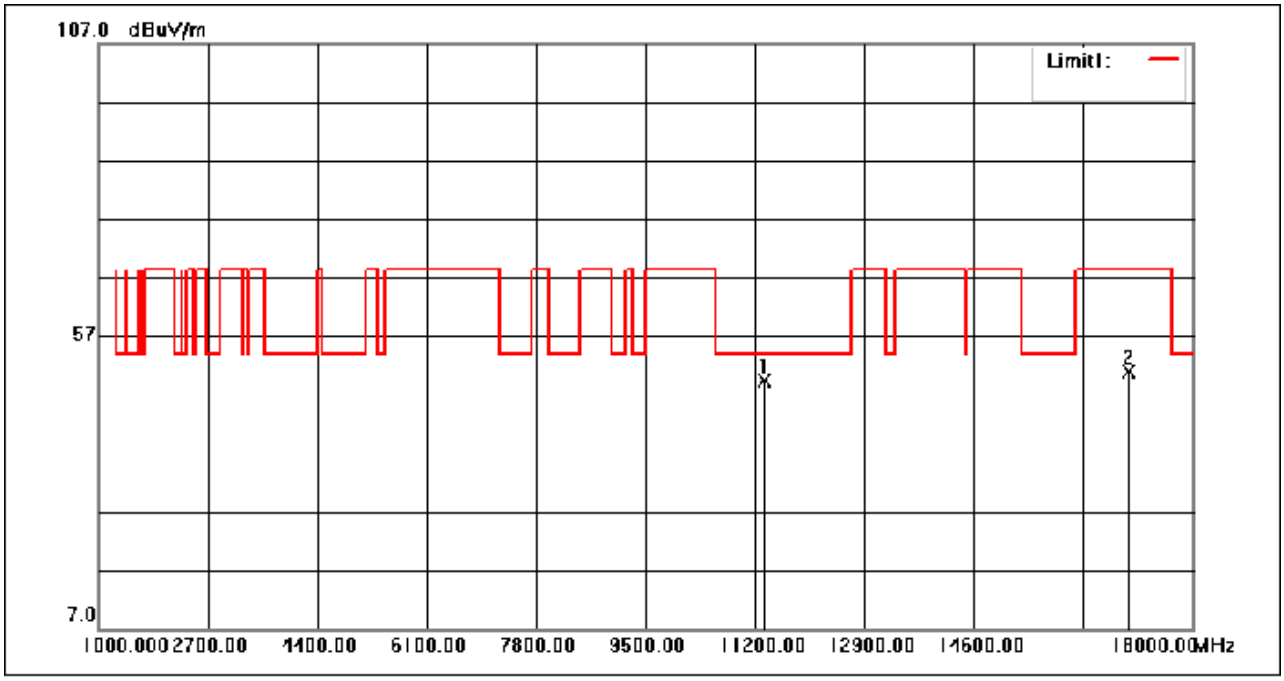
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11340.000 | 48.66 | 0.82 | 49.48 | 54.00 | -4.52 | peak |
| 2 | 17010.000 | 41.62 | 9.18 | 50.80 | 68.30 | -17.50 | peak |

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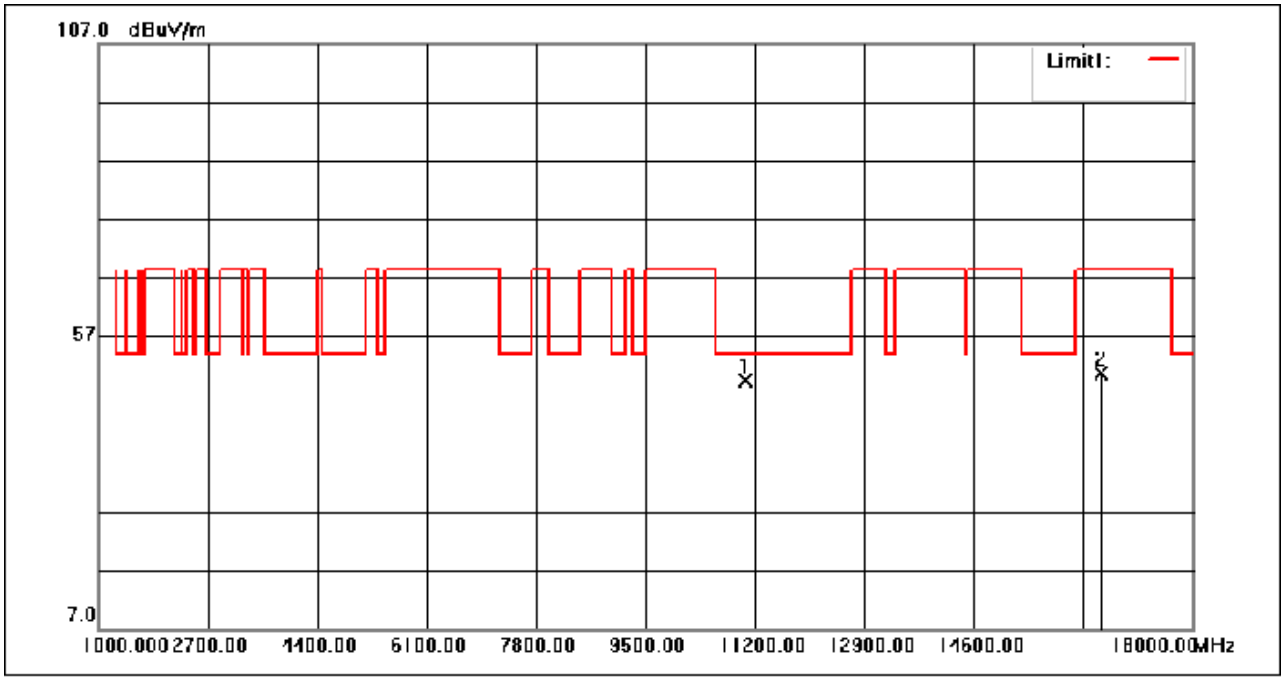
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11060.000 | 48.91 | 0.59 | 49.50 | 54.00 | -4.50 | peak |
| 2 | 16590.000 | 42.14 | 8.56 | 50.70 | 68.30 | -17.60 | peak |

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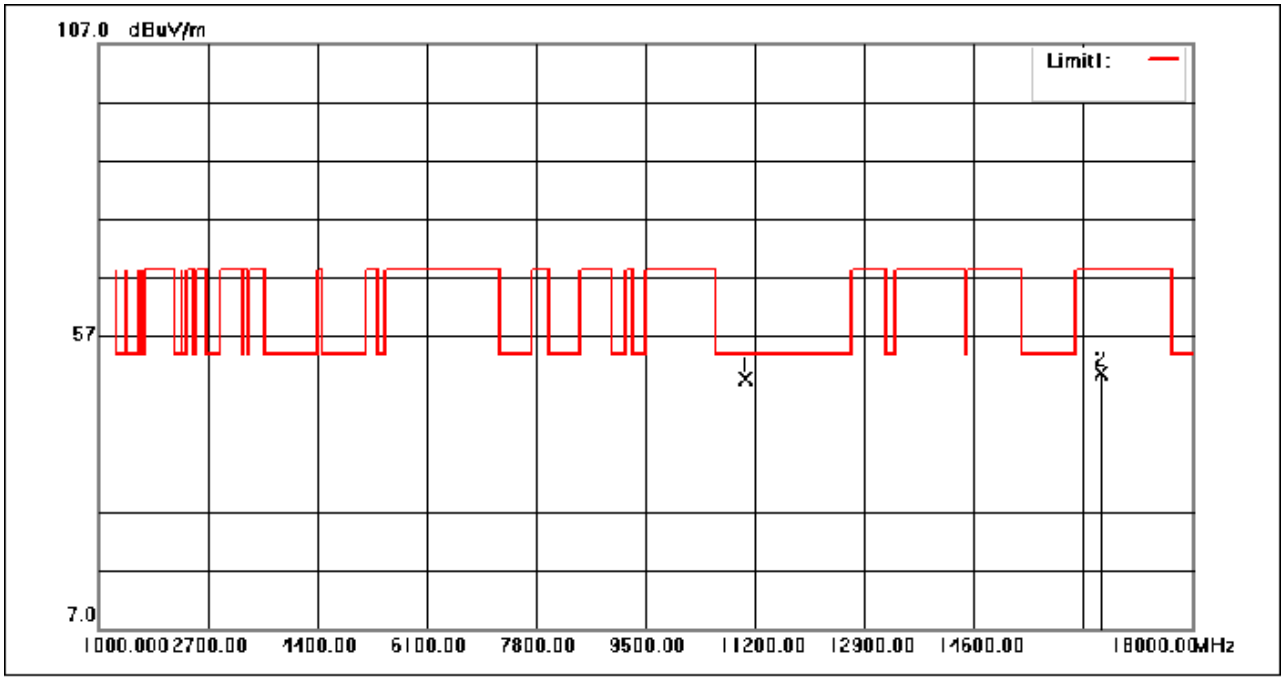
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11060.000 | 48.93 | 0.59 | 49.52 | 54.00 | -4.48 | peak |
| 2 | 16590.000 | 42.18 | 8.56 | 50.74 | 68.30 | -17.56 | peak |

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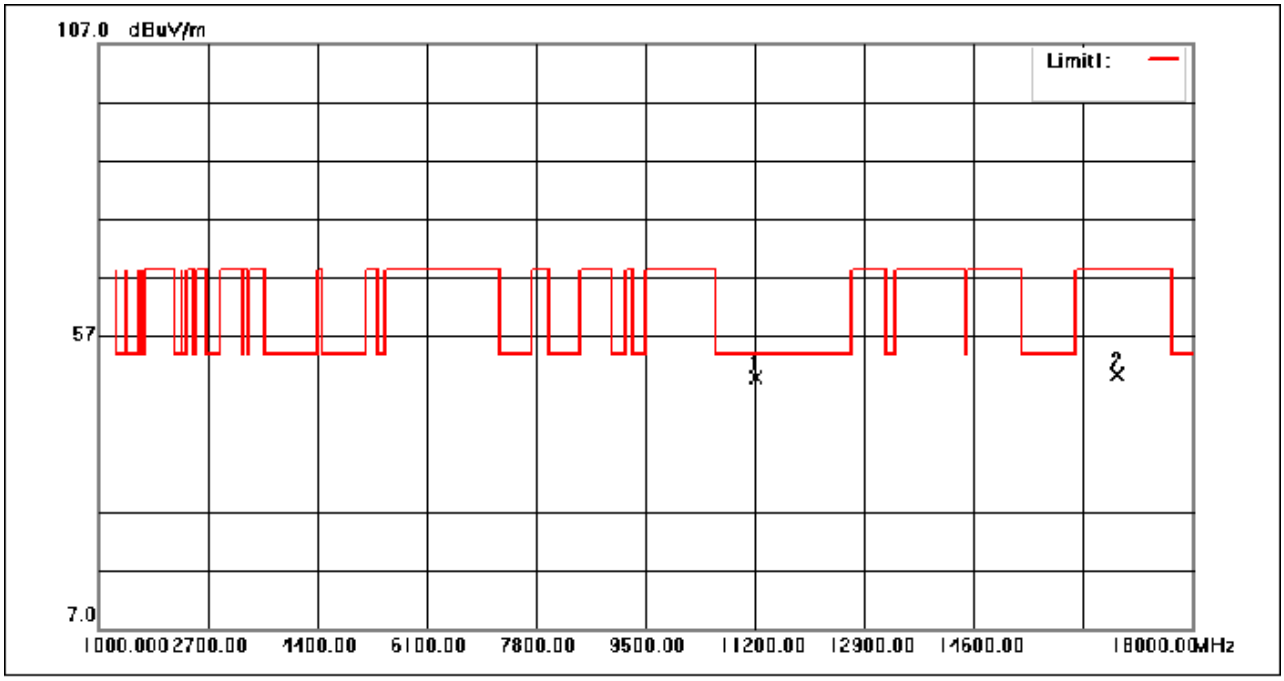
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11220.000 | 49.12 | 0.72 | 49.84 | 54.00 | -4.16 | peak |
| 2 | 16830.000 | 41.46 | 8.93 | 50.39 | 68.30 | -17.91 | peak |

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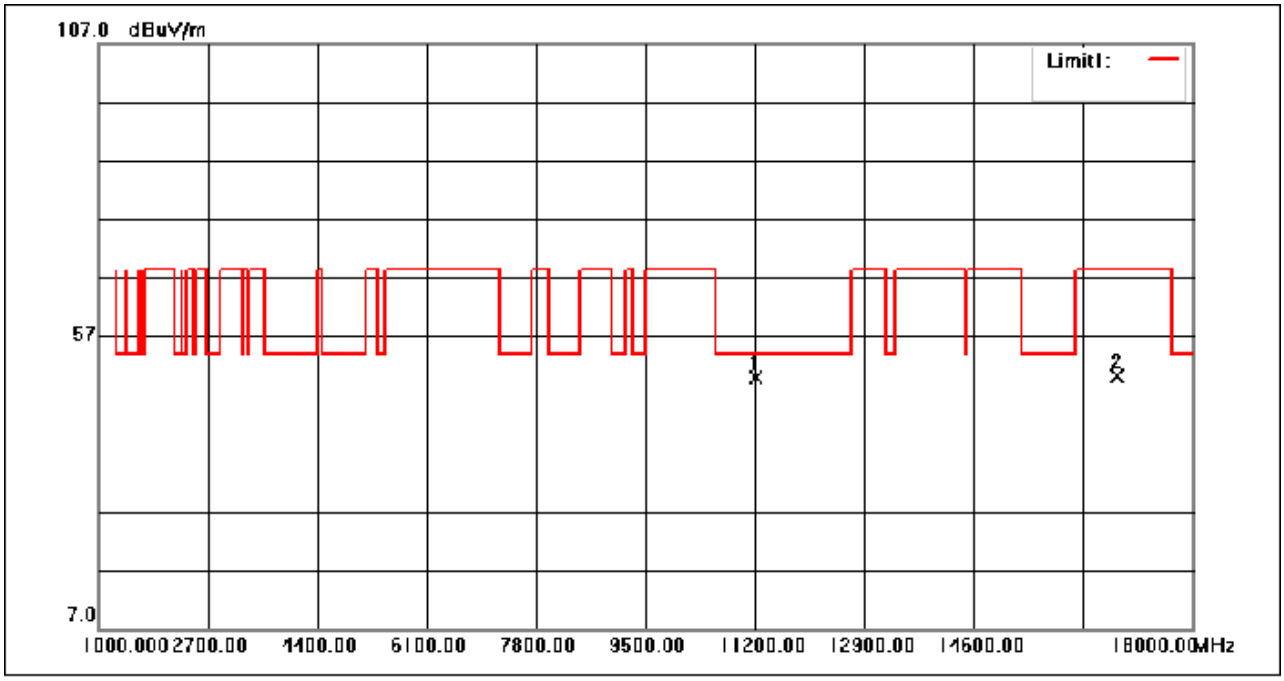
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11220.000 | 49.10 | 0.72 | 49.82 | 54.00 | -4.18 | peak |
| 2 | 16830.000 | 41.32 | 8.93 | 50.25 | 68.30 | -18.05 | peak |

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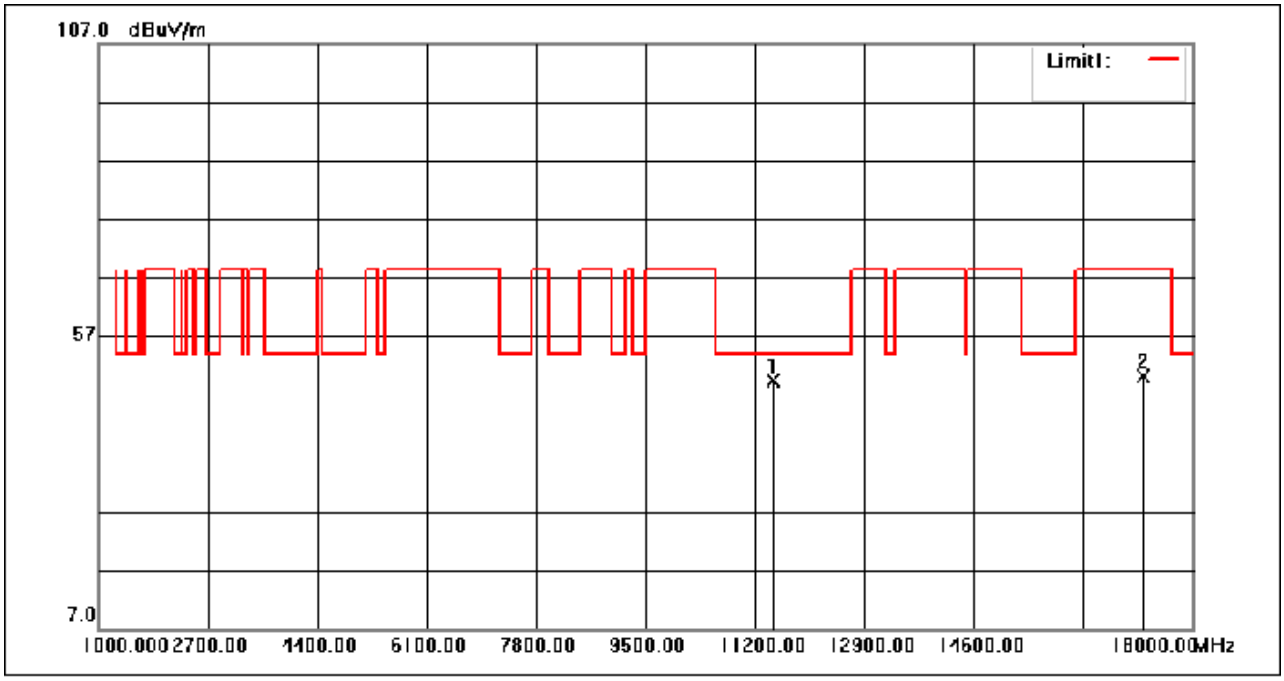
Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11490.000 | 48.48 | 0.94 | 49.42 | 54.00 | -4.58 | peak |
| 2 | 17235.000 | 41.12 | 9.05 | 50.17 | 68.30 | -18.13 | peak |

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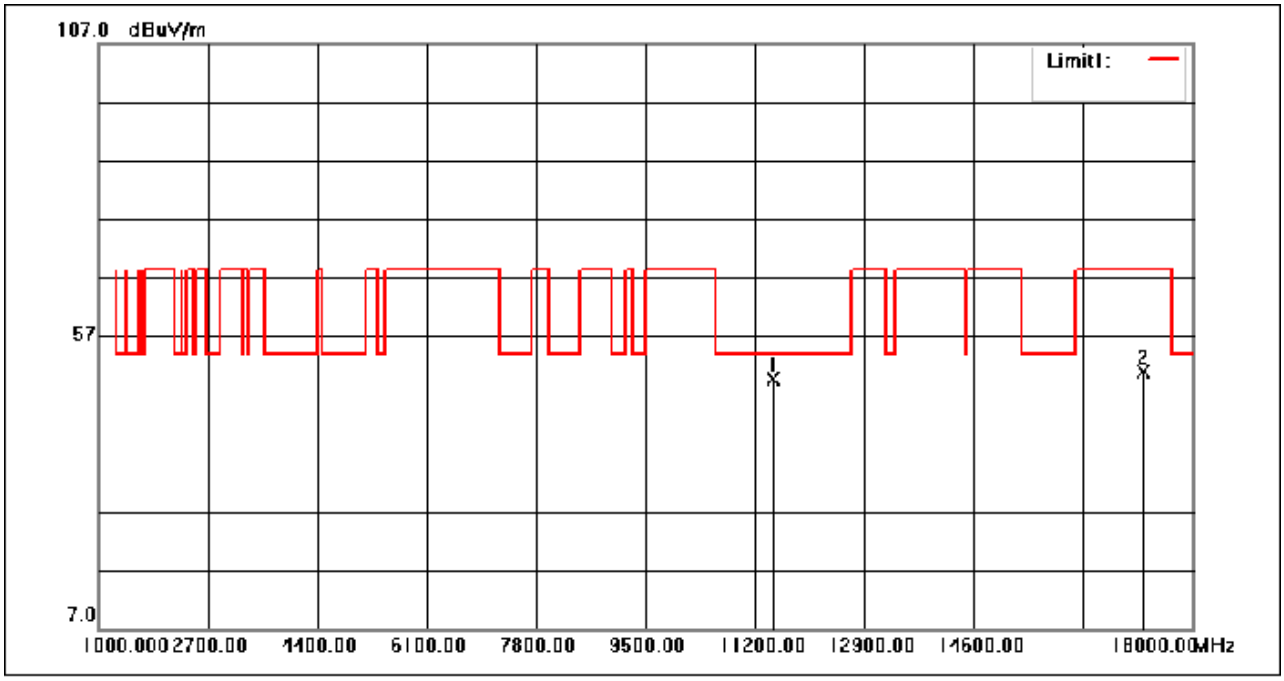
Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11490.000 | 48.57 | 0.94 | 49.51 | 54.00 | -4.49 | peak |
| 2 | 17235.000 | 41.88 | 9.05 | 50.93 | 68.30 | -17.37 | peak |

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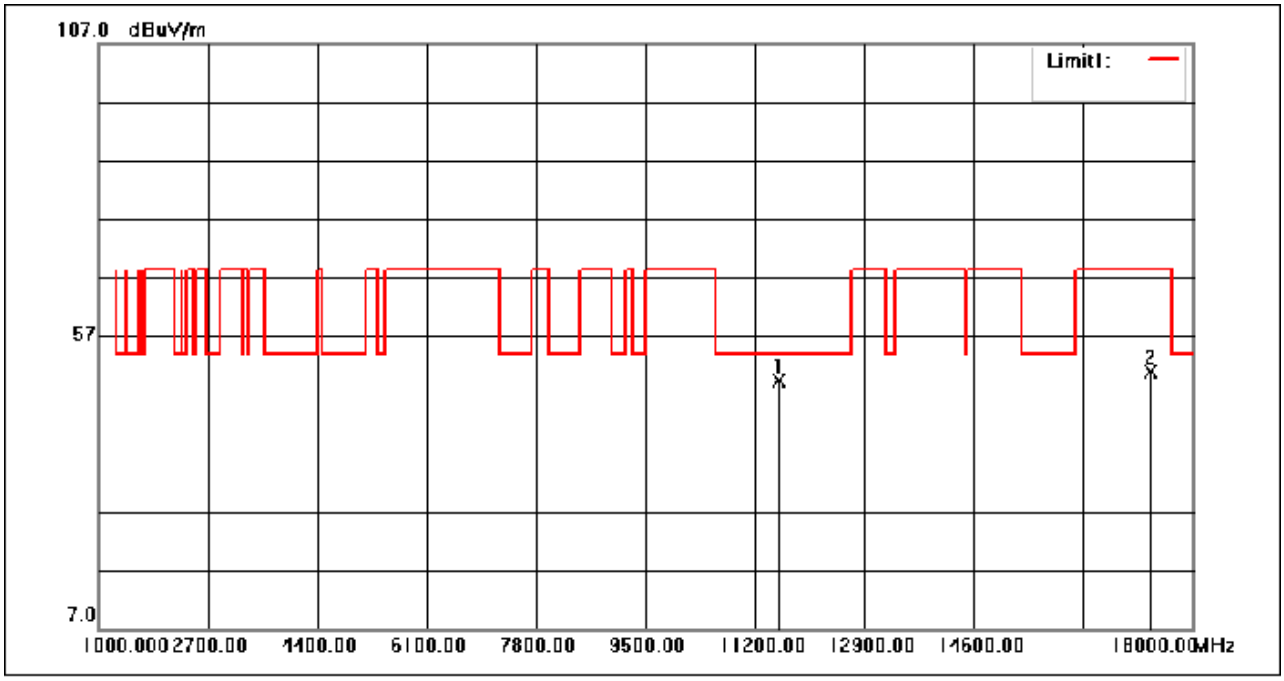
Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11570.000 | 48.10 | 1.18 | 49.28 | 54.00 | -4.72 | peak |
| 2 | 17355.000 | 41.98 | 8.98 | 50.96 | 68.30 | -17.34 | peak |

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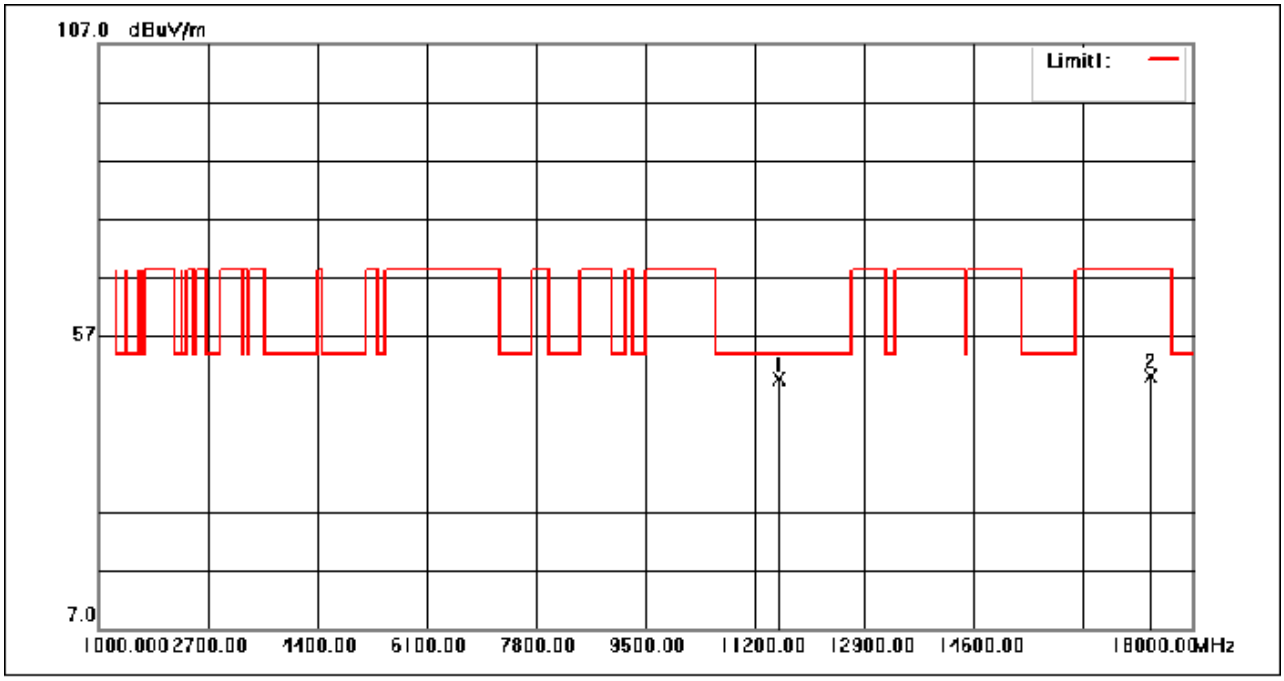
Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11570.000 | 48.41 | 1.18 | 49.59 | 54.00 | -4.41 | peak |
| 2 | 17355.000 | 41.04 | 8.98 | 50.02 | 68.30 | -18.28 | peak |

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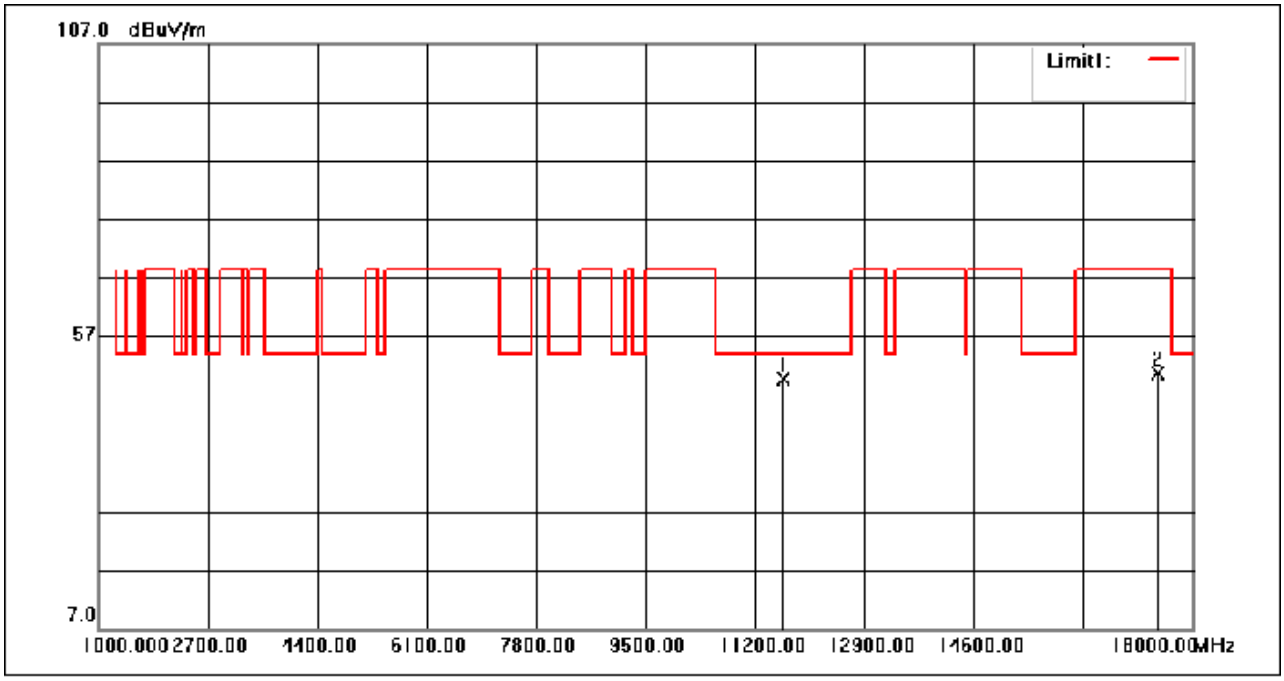
Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11650.000 | 48.15 | 1.45 | 49.60 | 54.00 | -4.40 | peak |
| 2 | 17475.000 | 41.78 | 8.90 | 50.68 | 68.30 | -17.62 | peak |

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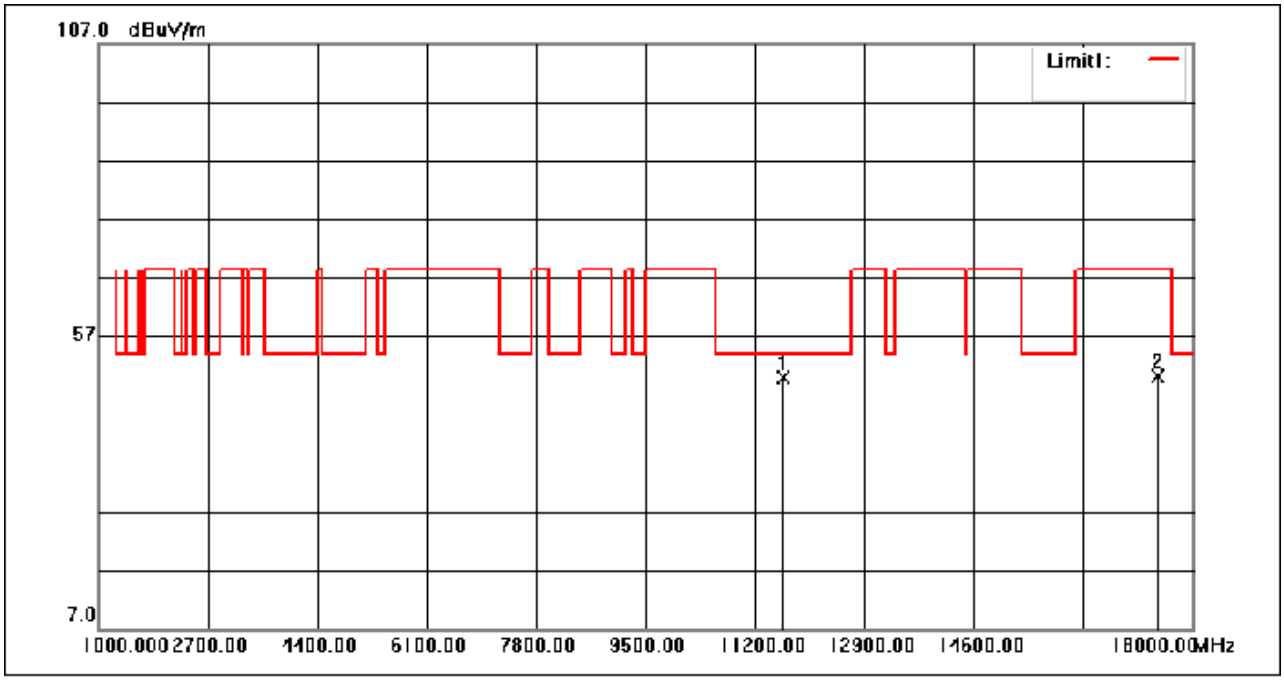
Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11650.000 | 48.47 | 1.45 | 49.92 | 54.00 | -4.08 | peak |
| 2 | 17475.000 | 41.22 | 8.90 | 50.12 | 68.30 | -18.18 | peak |

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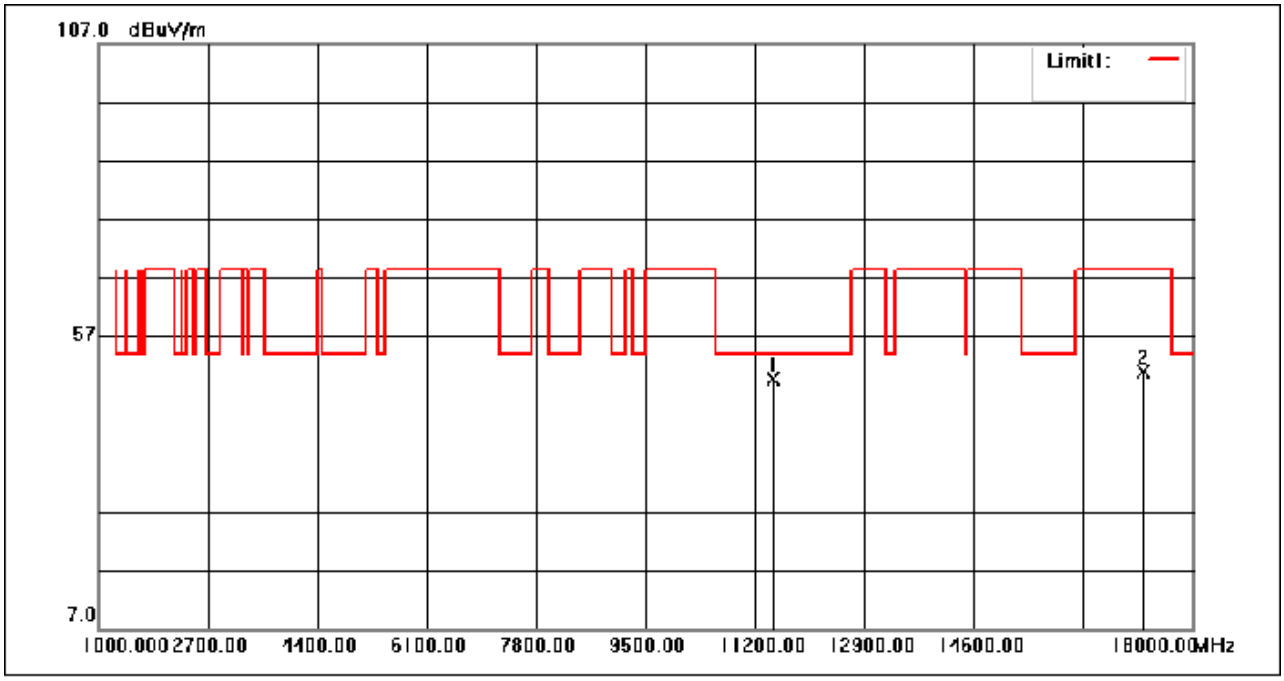
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11490.000 | 48.59 | 0.94 | 49.53 | 54.00 | -4.47 | peak |
| 2 | 17235.000 | 41.71 | 9.05 | 50.76 | 68.30 | -17.54 | peak |

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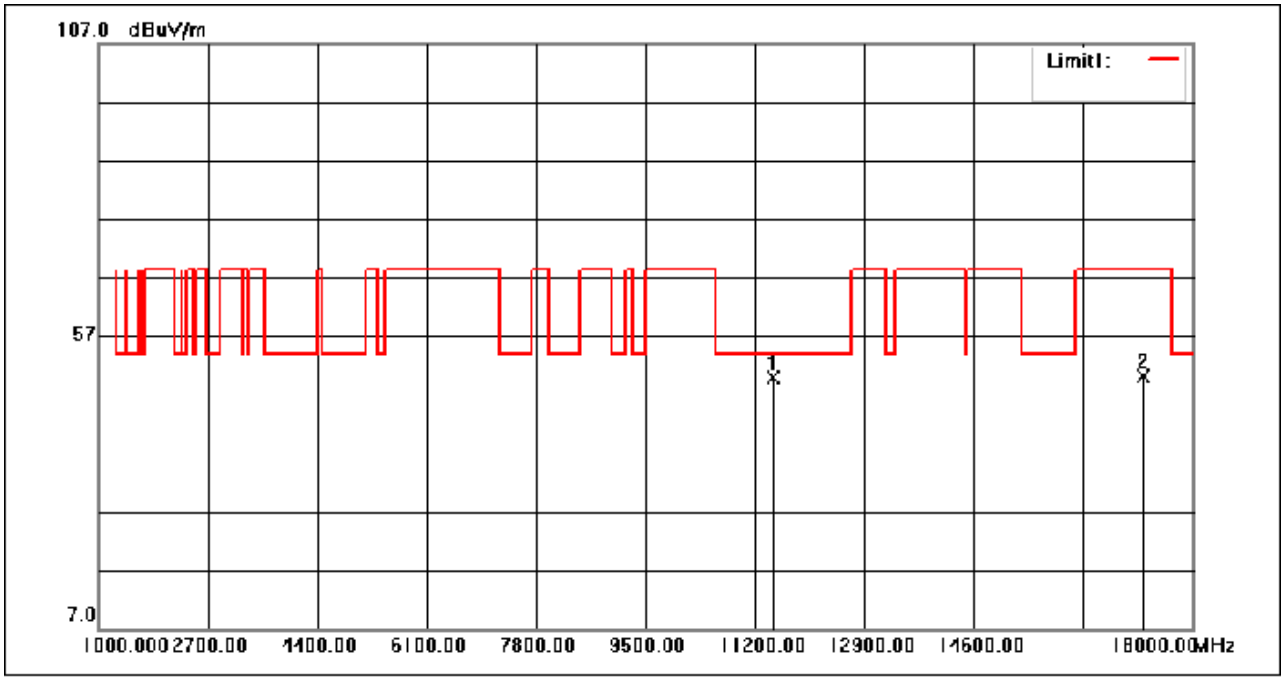
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11490.000 | 48.82 | 0.94 | 49.76 | 54.00 | -4.24 | peak |
| 2 | 17235.000 | 41.18 | 9.05 | 50.23 | 68.30 | -18.07 | peak |

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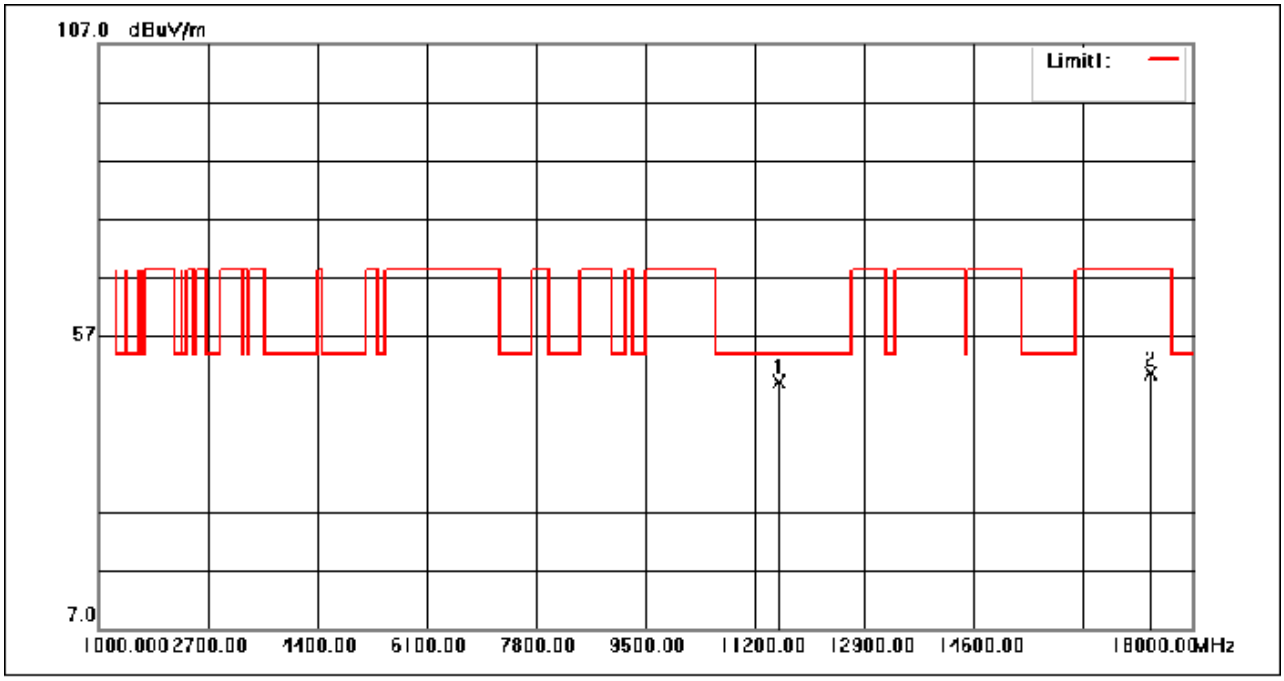
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11570.000 | 48.07 | 1.18 | 49.25 | 54.00 | -4.75 | peak |
| 2 | 17355.000 | 41.56 | 8.98 | 50.54 | 68.30 | -17.76 | peak |

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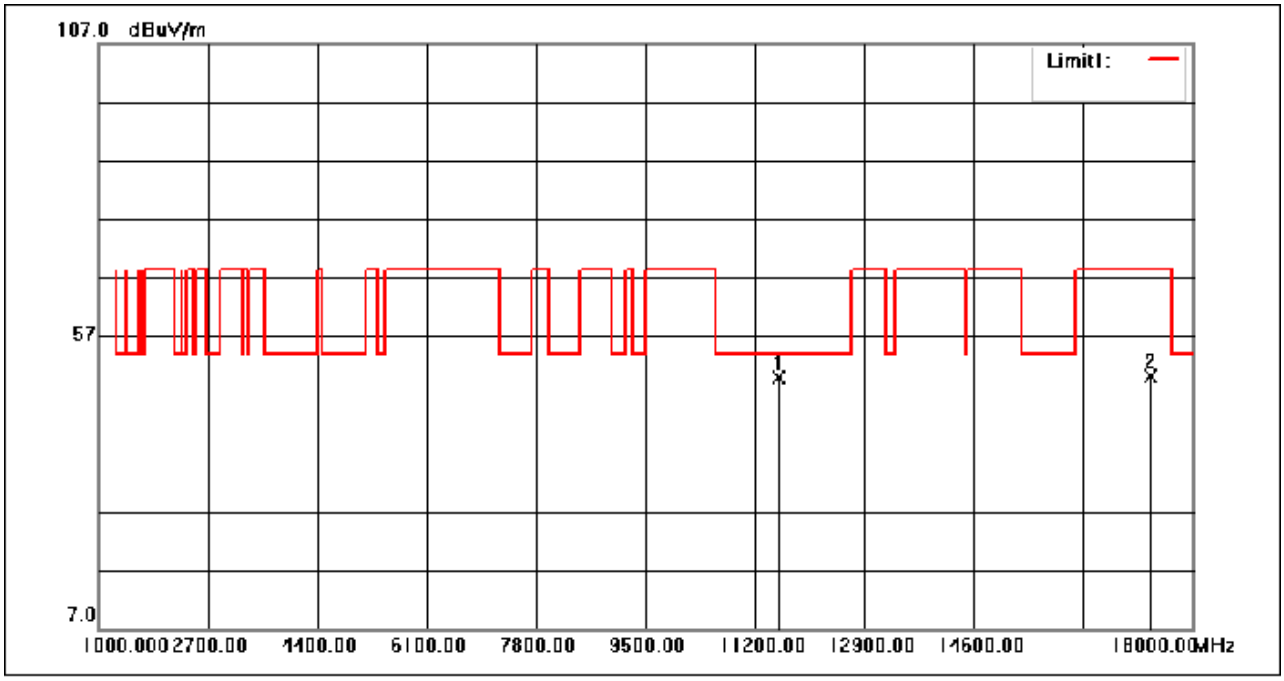
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11570.000 | 48.75 | 1.18 | 49.93 | 54.00 | -4.07 | peak |
| 2 | 17355.000 | 41.18 | 8.98 | 50.16 | 68.30 | -18.14 | peak |

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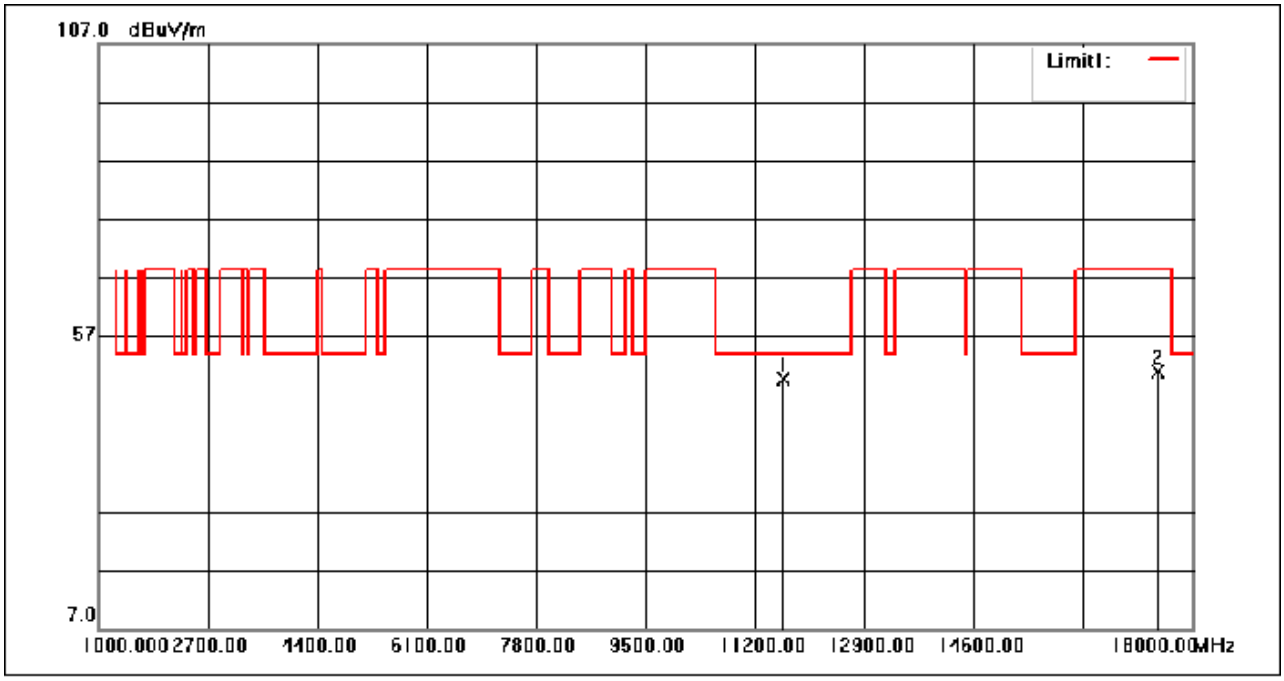
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11650.000 | 48.24 | 1.45 | 49.69 | 54.00 | -4.31 | peak |
| 2 | 17475.000 | 42.09 | 8.90 | 50.99 | 68.30 | -17.31 | peak |

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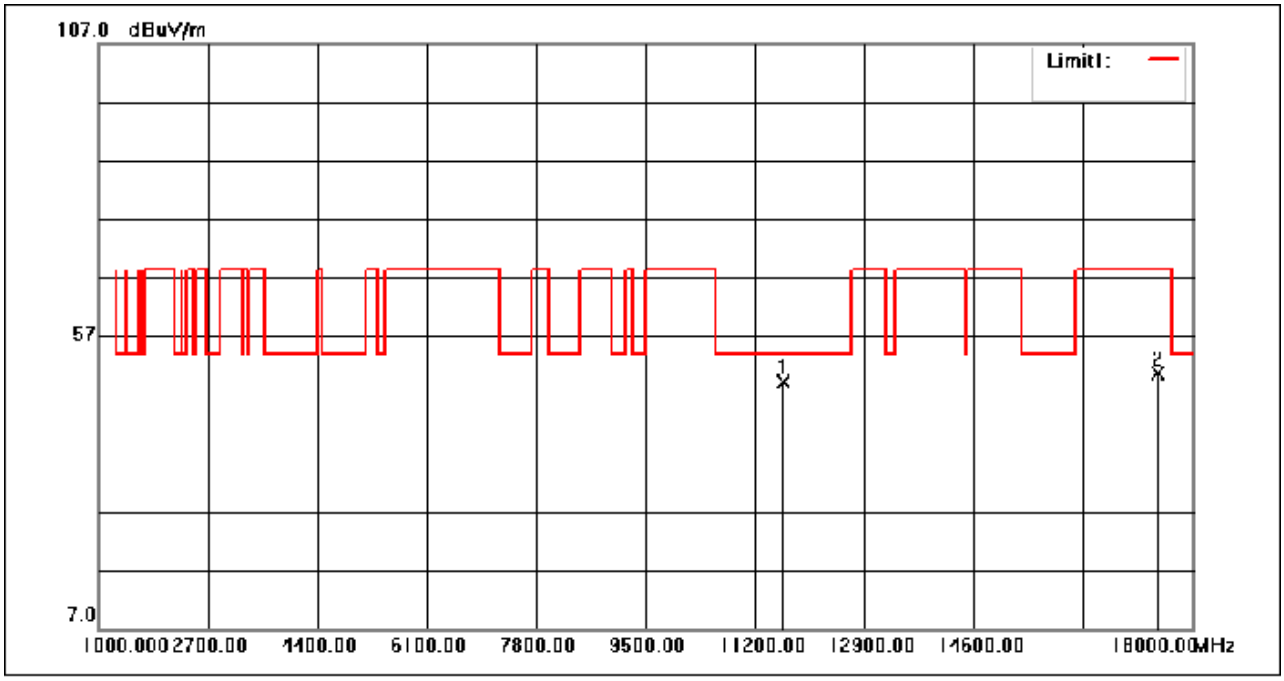
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11650.000 | 47.59 | 1.45 | 49.04 | 54.00 | -4.96 | peak |
| 2 | 17475.000 | 41.76 | 8.90 | 50.66 | 68.30 | -17.64 | peak |

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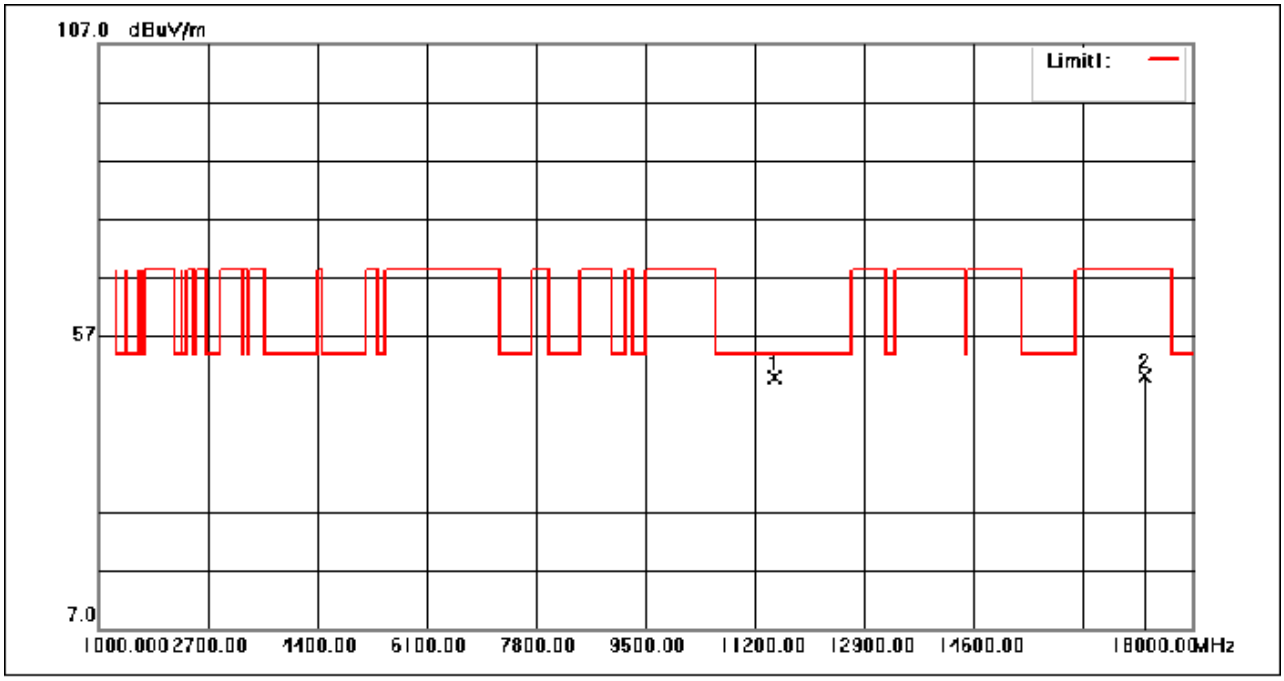
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11510.000 | 48.84 | 0.99 | 49.83 | 54.00 | -4.17 | peak |
| 2 | 17265.000 | 41.10 | 9.03 | 50.13 | 68.30 | -18.17 | peak |

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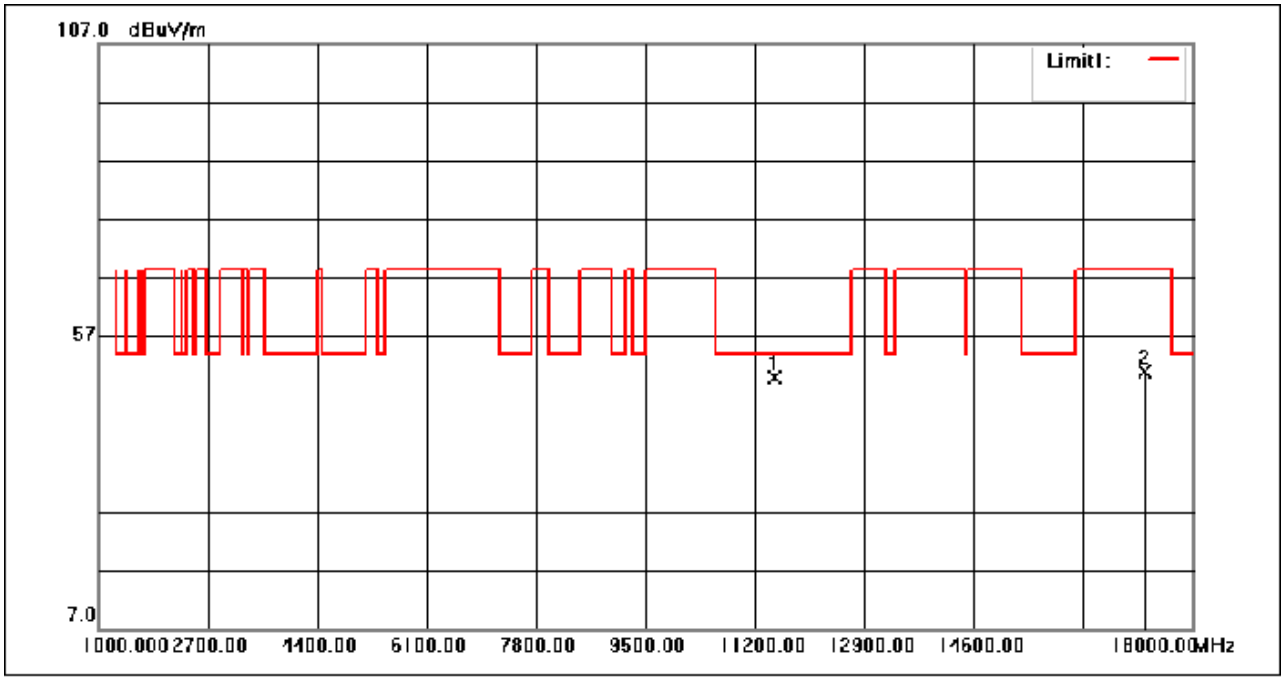
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11510.000 | 48.96 | 0.99 | 49.95 | 54.00 | -4.05 | peak |
| 2 | 17265.000 | 41.73 | 9.03 | 50.76 | 68.30 | -17.54 | peak |

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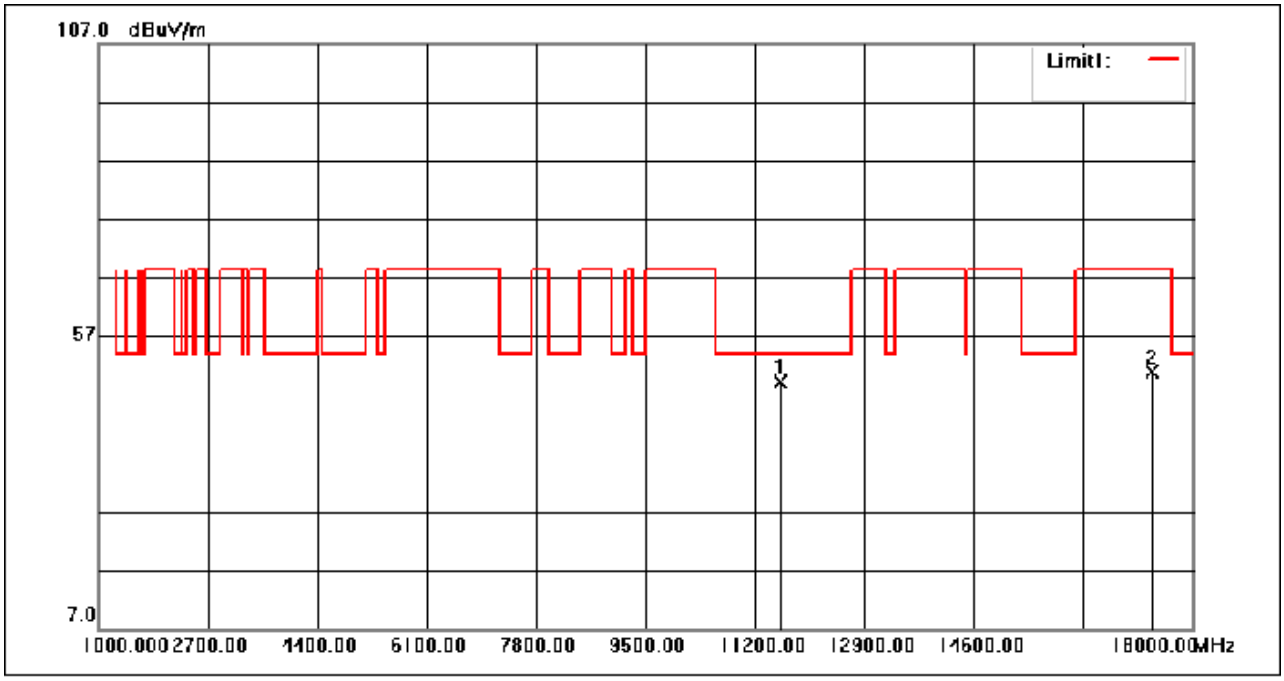
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11590.000 | 47.78 | 1.25 | 49.03 | 54.00 | -4.97 | peak |
| 2 | 17385.000 | 41.82 | 8.96 | 50.78 | 68.30 | -17.52 | peak |

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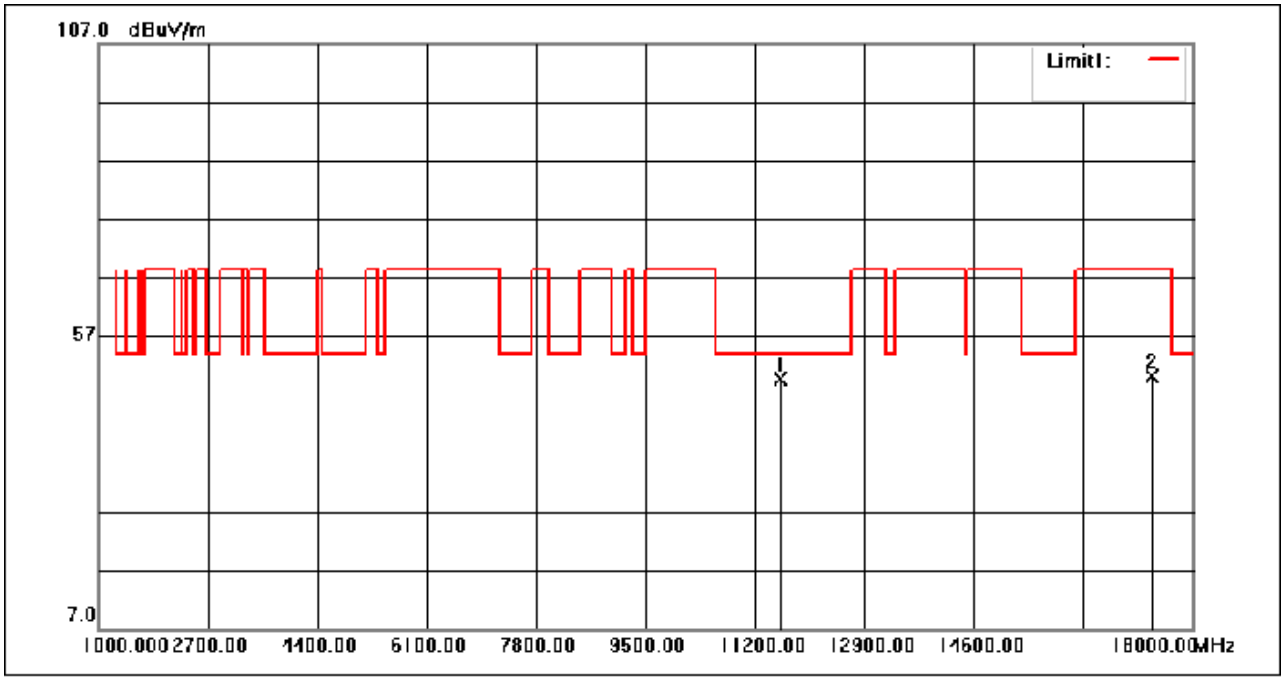
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11590.000 | 48.49 | 1.25 | 49.74 | 54.00 | -4.26 | peak |
| 2 | 17385.000 | 41.28 | 8.96 | 50.24 | 68.30 | -18.06 | peak |

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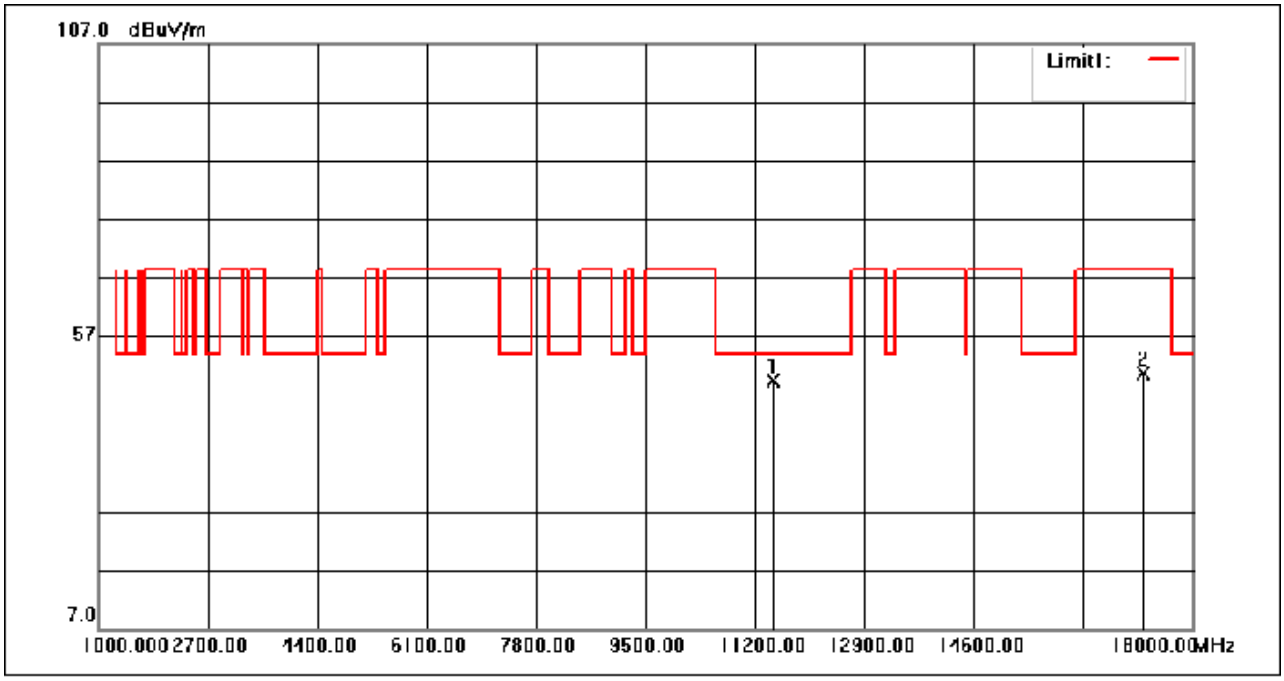
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11490.000 | 48.40 | 0.94 | 49.34 | 54.00 | -4.66 | peak |
| 2 | 17235.000 | 41.53 | 9.05 | 50.58 | 68.30 | -17.72 | peak |

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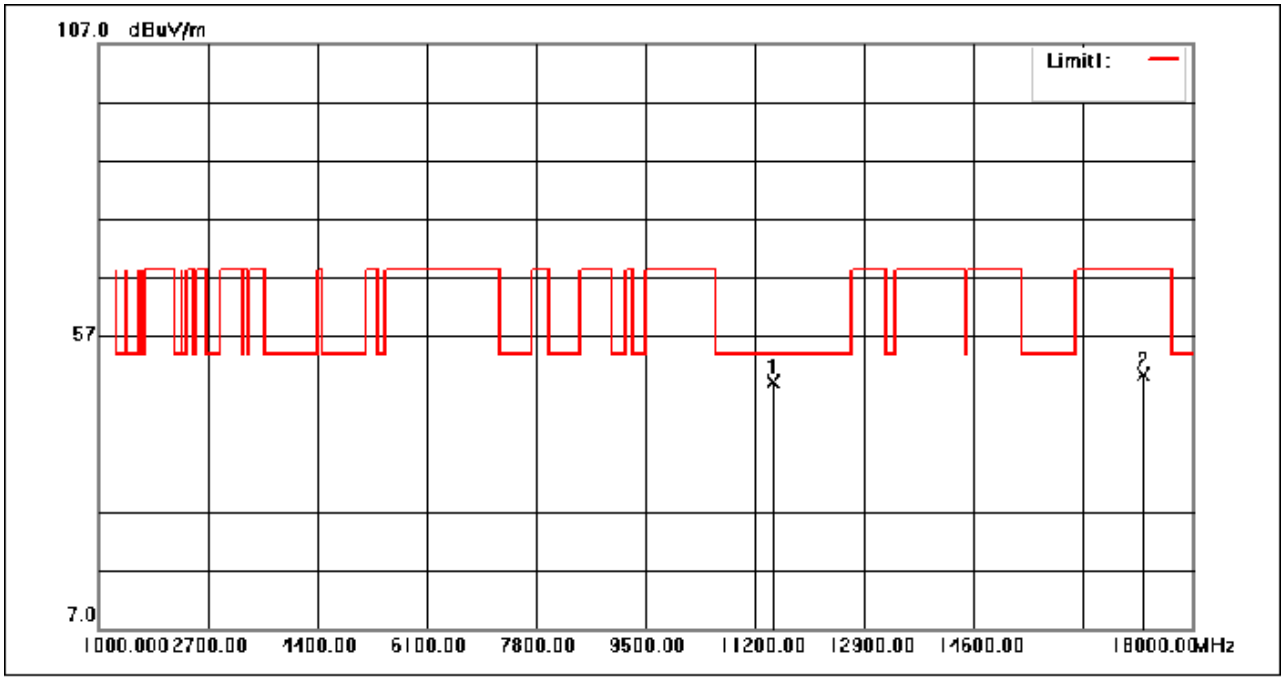
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11490.000 | 48.08 | 0.94 | 49.02 | 54.00 | -4.98 | peak |
| 2 | 17235.000 | 41.22 | 9.05 | 50.27 | 68.30 | -18.03 | peak |

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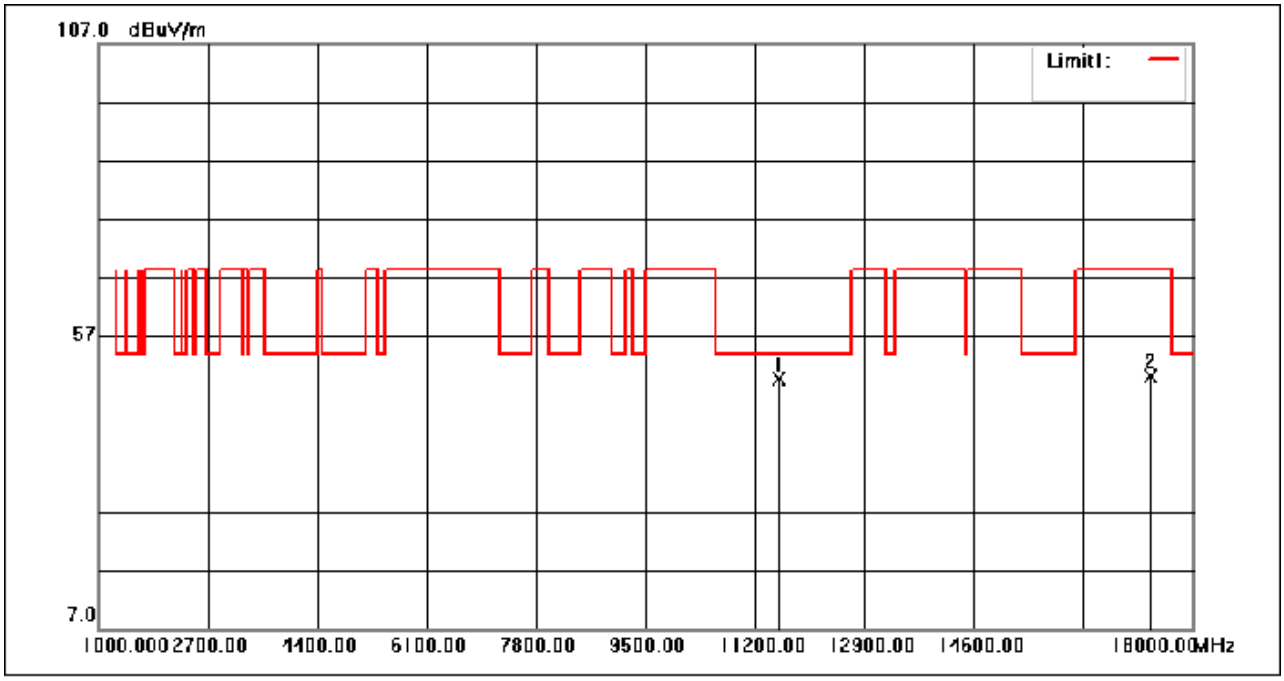
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11570.000 | 48.40 | 1.18 | 49.58 | 54.00 | -4.42 | peak |
| 2 | 17355.000 | 41.07 | 8.98 | 50.05 | 68.30 | -18.25 | peak |

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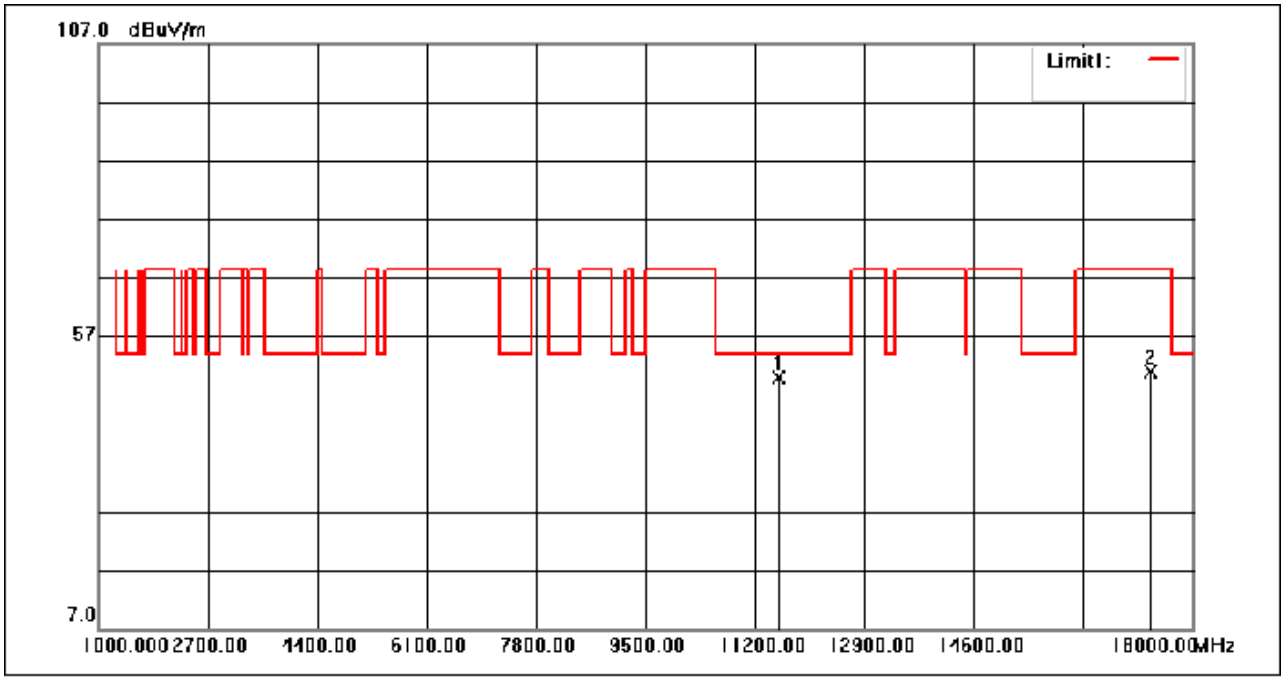
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11570.000 | 48.79 | 1.18 | 49.97 | 54.00 | -4.03 | peak |
| 2 | 17355.000 | 41.97 | 8.98 | 50.95 | 68.30 | -17.35 | peak |

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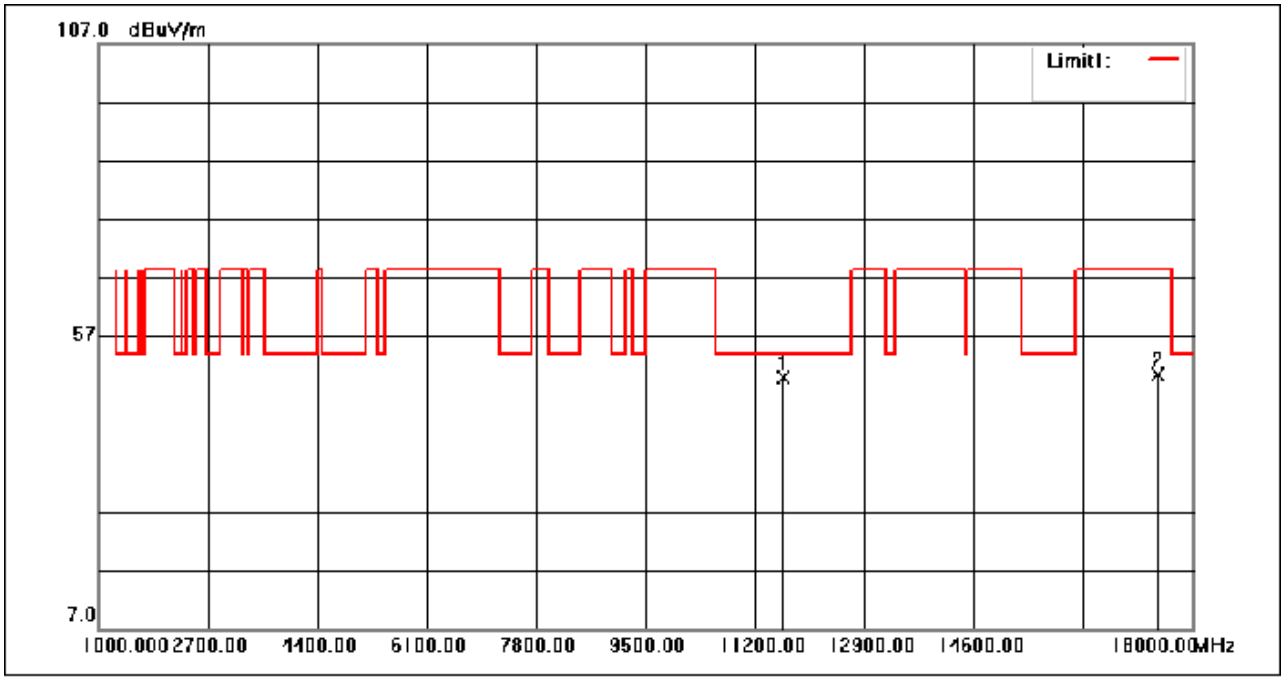
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11650.000 | 48.44 | 1.45 | 49.89 | 54.00 | -4.11 | peak |
| 2 | 17475.000 | 41.48 | 8.90 | 50.38 | 68.30 | -17.92 | peak |

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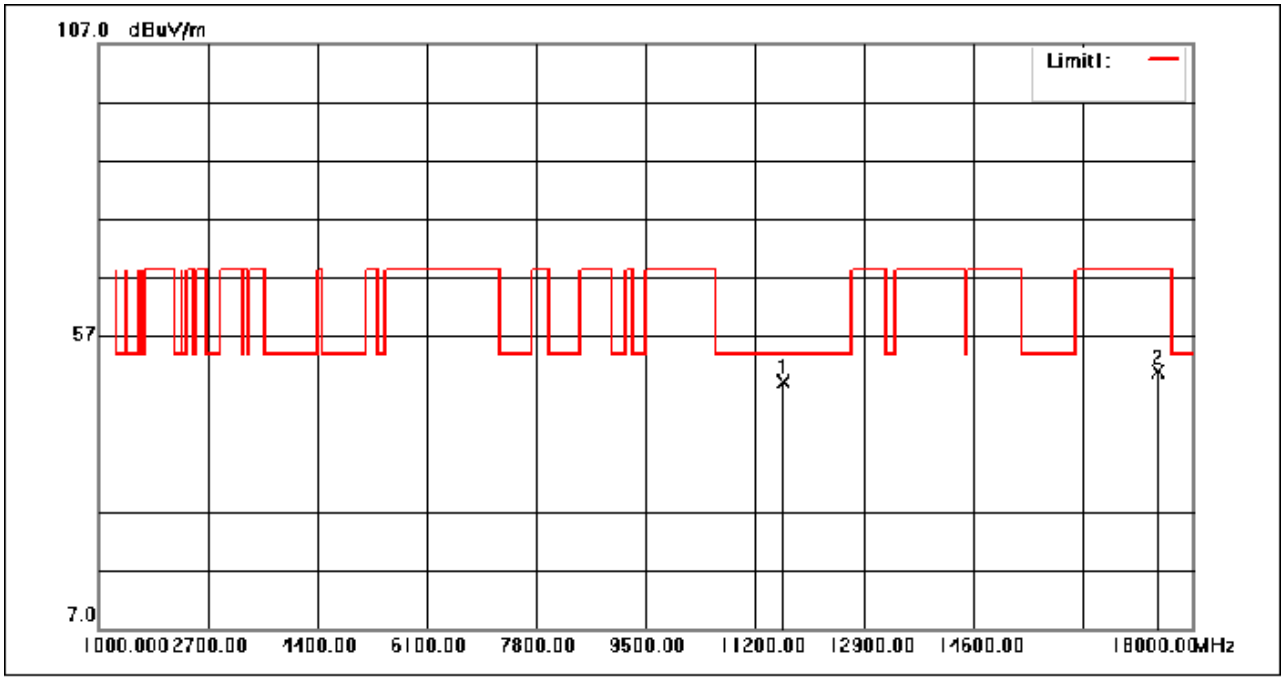
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11650.000 | 47.78 | 1.45 | 49.23 | 54.00 | -4.77 | peak |
| 2 | 17475.000 | 41.99 | 8.90 | 50.89 | 68.30 | -17.41 | peak |

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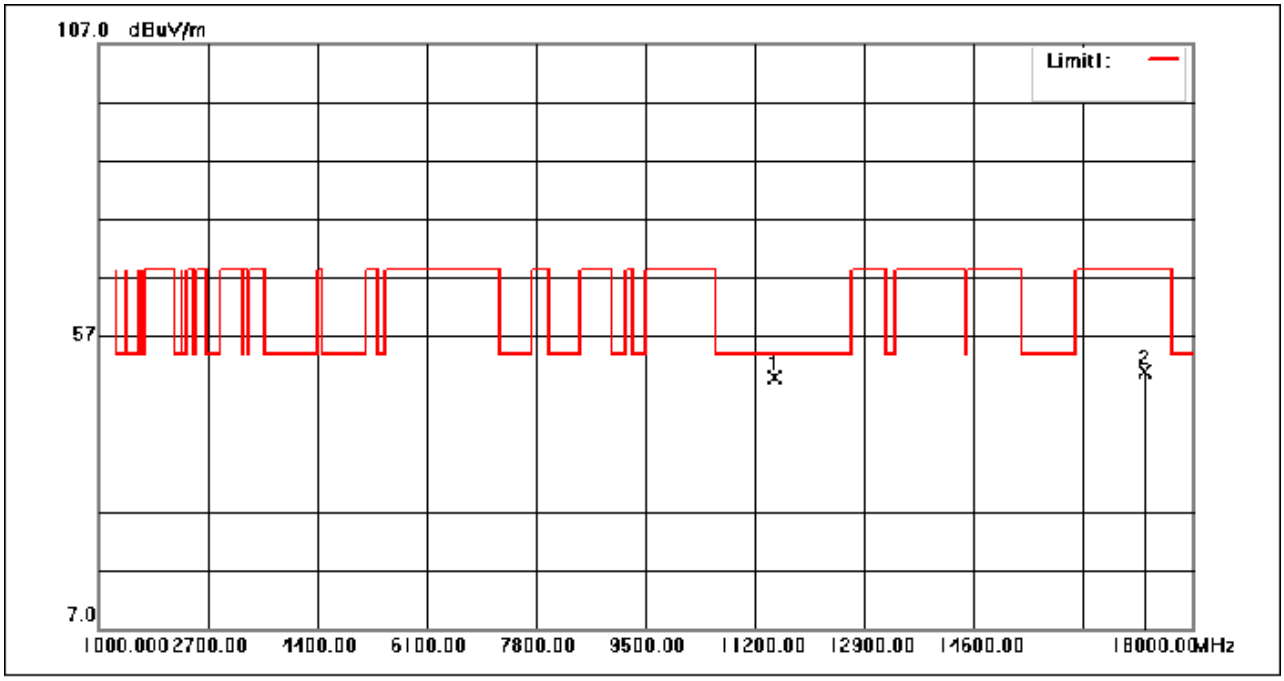
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11510.000 | 48.89 | 0.99 | 49.88 | 54.00 | -4.12 | peak |
| 2 | 17265.000 | 41.97 | 9.03 | 51.00 | 68.30 | -17.30 | peak |

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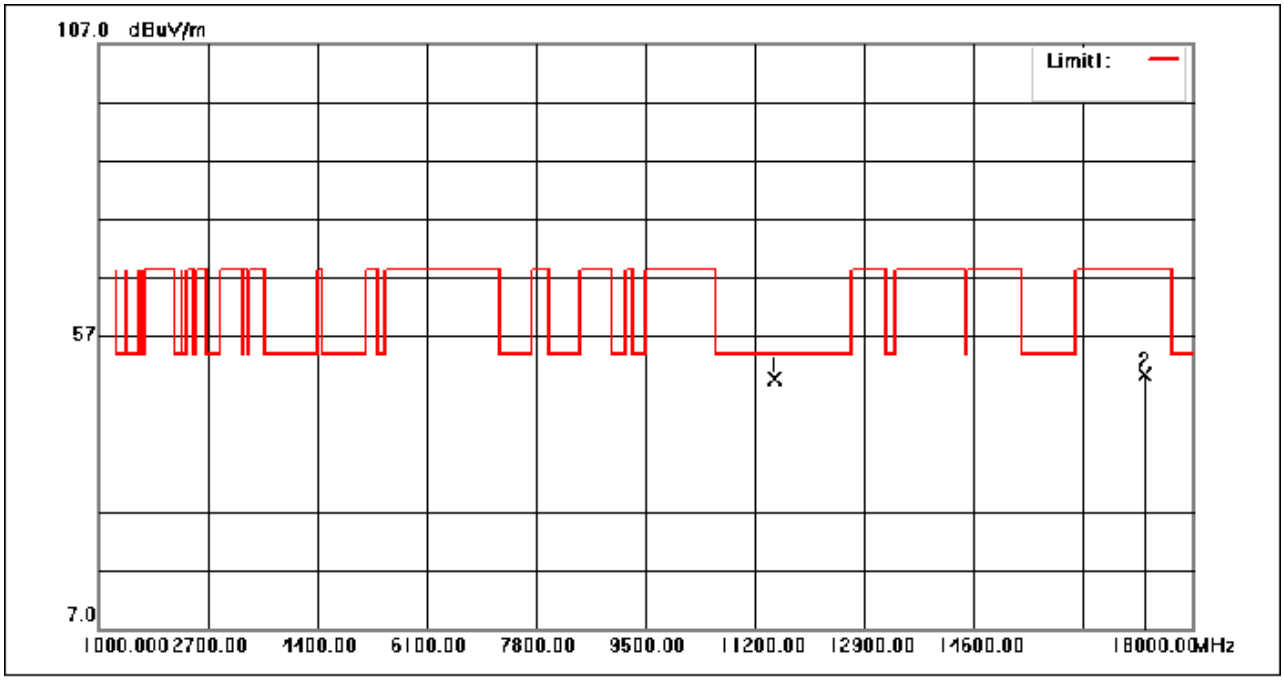
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11510.000 | 48.56 | 0.99 | 49.55 | 54.00 | -4.45 | peak |
| 2 | 17265.000 | 41.26 | 9.03 | 50.29 | 68.30 | -18.01 | peak |

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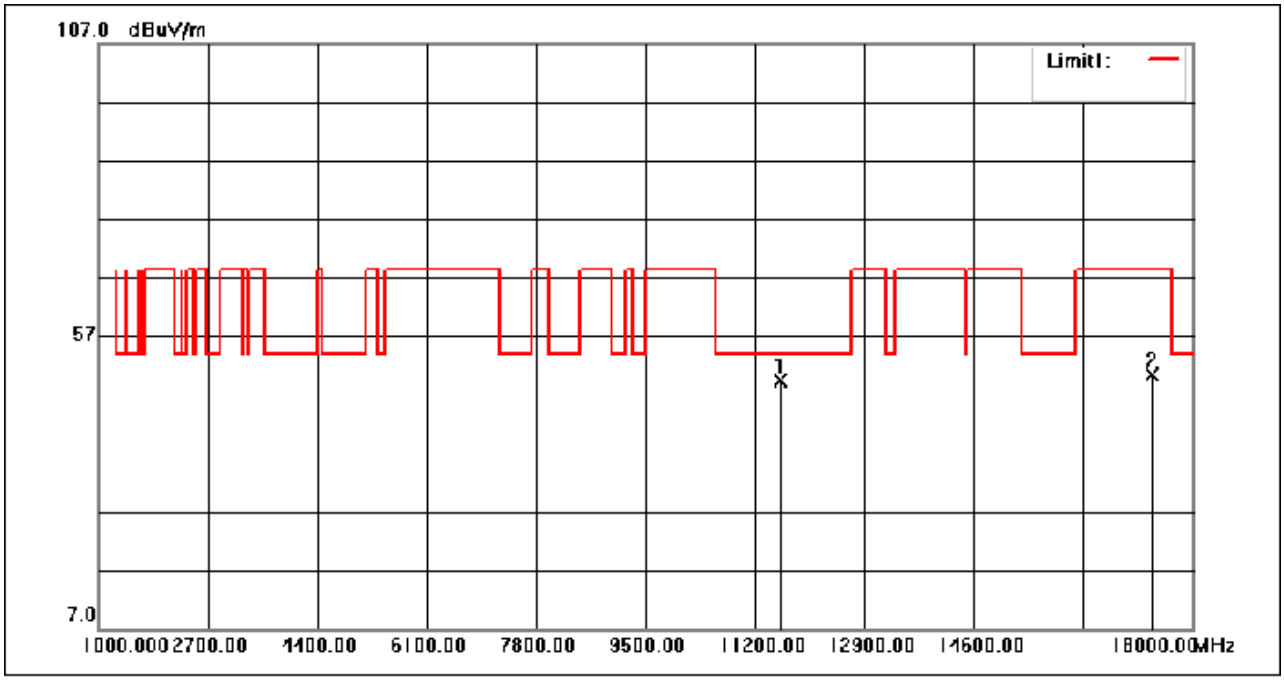
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11590.000 | 48.11 | 1.25 | 49.36 | 54.00 | -4.64 | peak |
| 2 | 17385.000 | 41.51 | 8.96 | 50.47 | 68.30 | -17.83 | peak |

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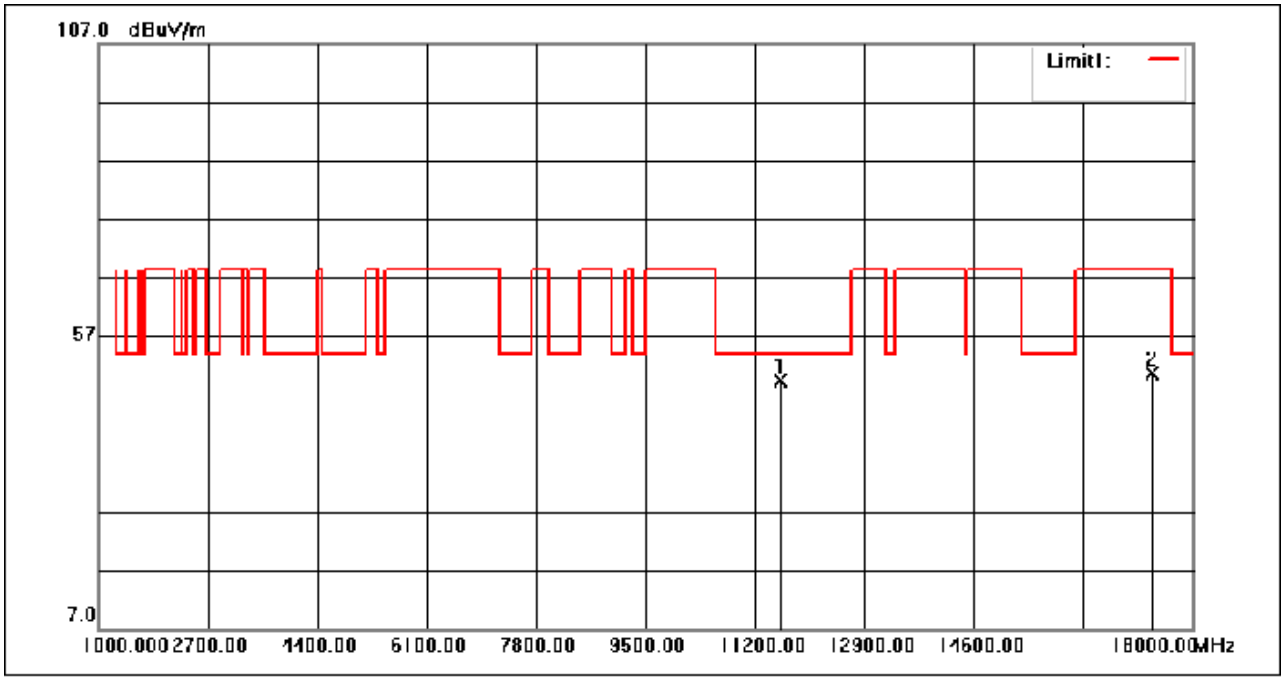
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11590.000 | 48.25 | 1.25 | 49.50 | 54.00 | -4.50 | peak |
| 2 | 17385.000 | 41.73 | 8.96 | 50.69 | 68.30 | -17.61 | peak |

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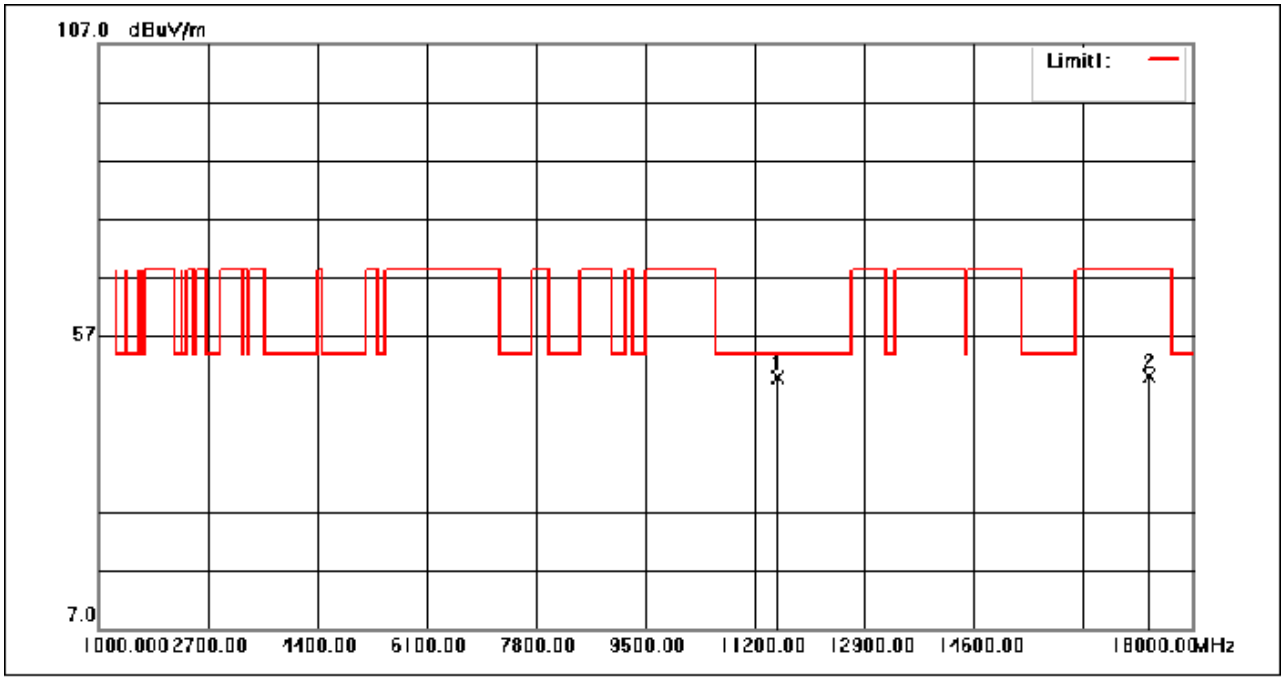
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11550.000 | 48.74 | 1.12 | 49.86 | 54.00 | -4.14 | peak |
| 2 | 17325.000 | 41.23 | 8.99 | 50.22 | 68.30 | -18.08 | peak |

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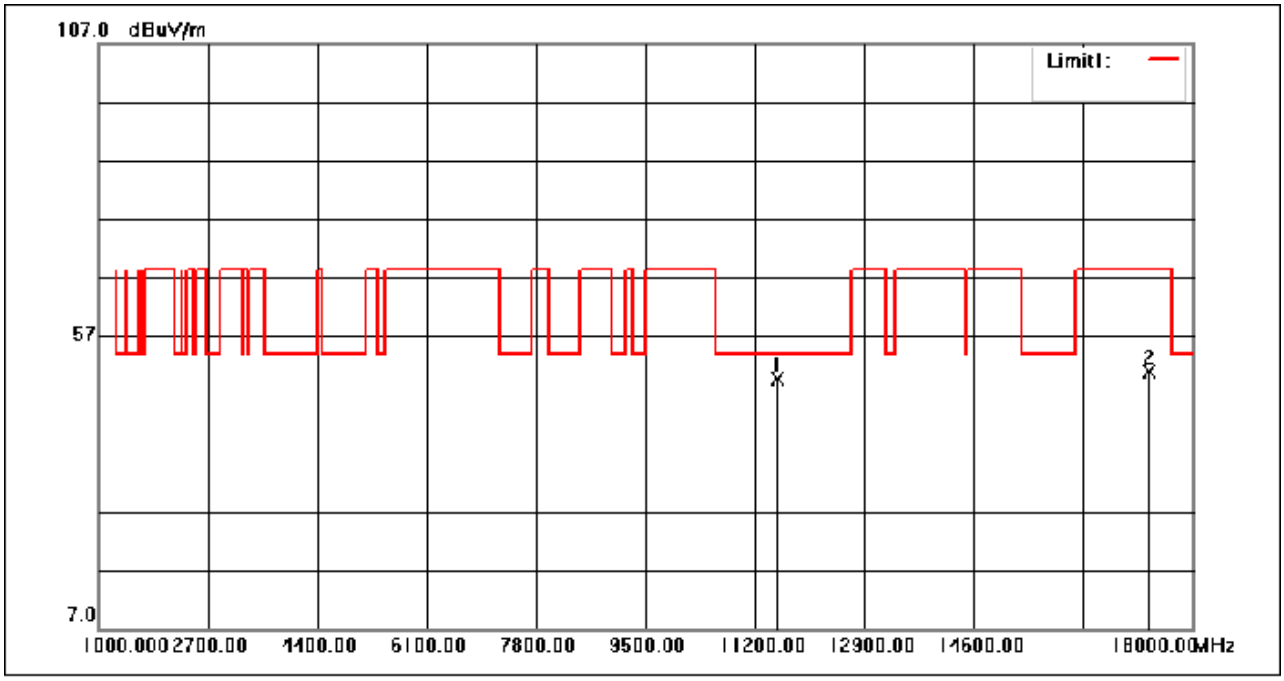
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 11550.000 | 48.56 | 1.12 | 49.68 | 54.00 | -4.32 | peak |
| 2 | 17325.000 | 41.95 | 8.99 | 50.94 | 68.30 | -17.36 | peak |

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## 7.9 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
Test Method: KDB 789033 D02 II G

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 |

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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.

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 50.6 % RH Atmospheric Pressure: 1010 mbar

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### 7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 01 | Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 03 | Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 04 | Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), 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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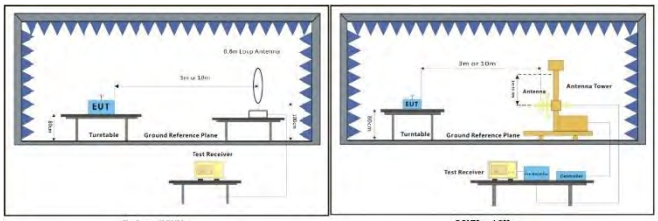
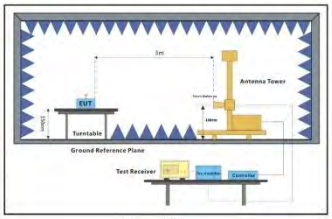
### 7.9.3 Test Setup Diagram




Below 30MHz

30MHz-1GHz




Above 1GHz

### 7.9.4 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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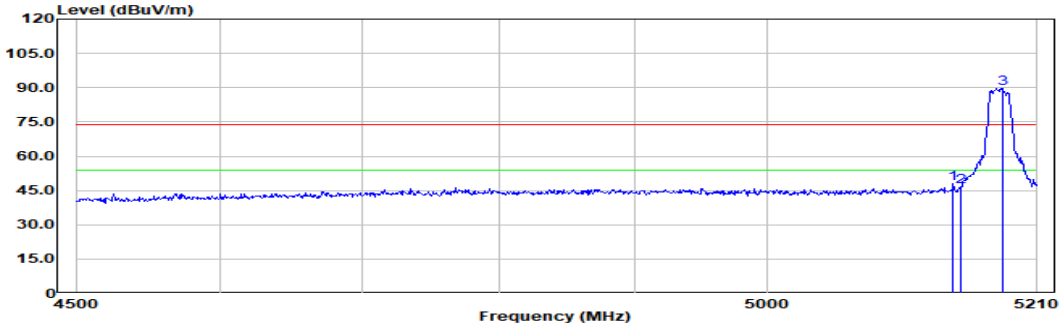
Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5143.970 | 8.38 | 32.61 | 54.68 | 48.08 | 74.00 | -25.92 | Peak |
| 2 | 5150.000 | 8.39 | 32.61 | 53.38 | 46.79 | 74.00 | -27.21 | Peak |
| 3 | 5183.020 | 8.43 | 32.58 | 96.33 | 89.74 | 74.00 | 15.74 | Peak |

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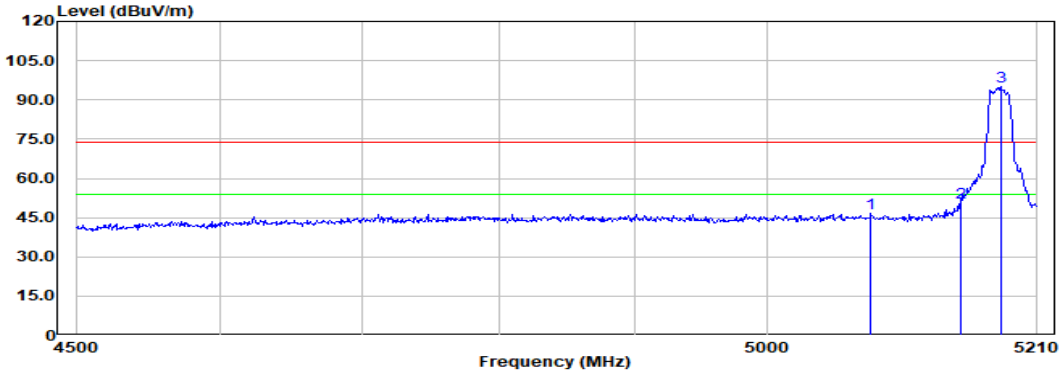
Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5080.070 | 8.30 | 32.64 | 53.20 | 46.57 | 74.00 | -27.43 | Peak |
| 2 | 5150.000 | 8.39 | 32.61 | 57.40 | 50.81 | 74.00 | -23.19 | Peak |
| 3 | 5181.600 | 8.43 | 32.58 | 101.58 | 94.99 | 74.00 | 20.99 | Peak |

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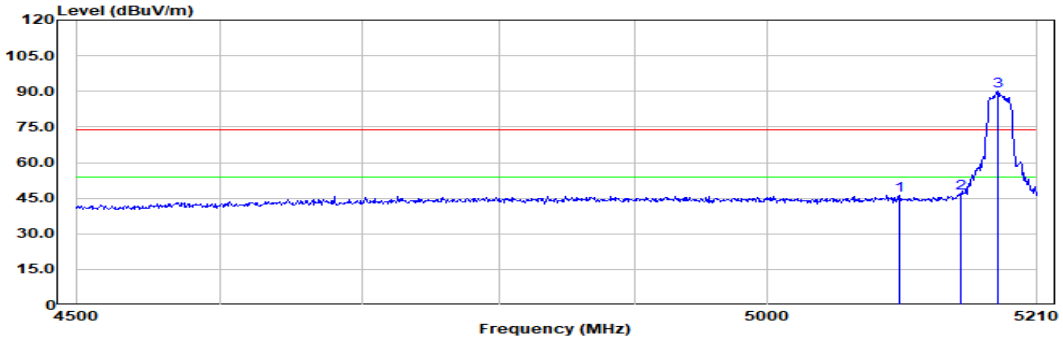
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5102.080 | 8.33 | 32.65 | 52.79 | 46.19 | 74.00 | -27.81 | Peak |
| 2 | 5150.000 | 8.39 | 32.61 | 53.80 | 47.21 | 74.00 | -26.79 | Peak |
| 3 | 5179.470 | 8.43 | 32.59 | 96.66 | 90.08 | 74.00 | 16.08 | Peak |

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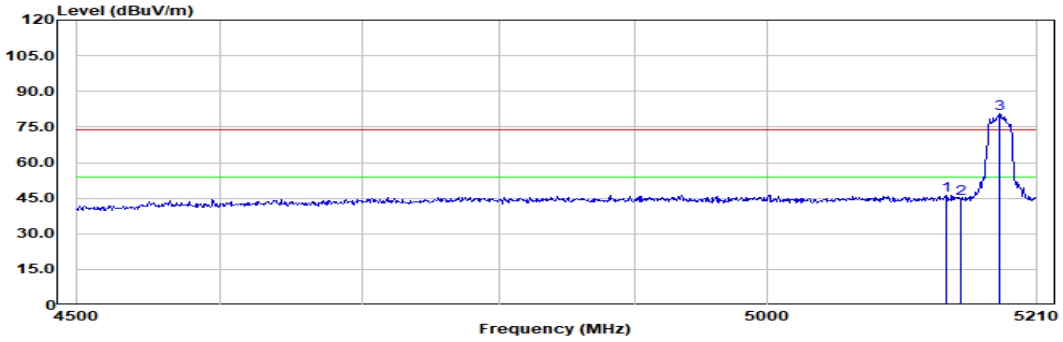
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5139.000 | 8.38 | 32.62 | 52.82 | 46.23 | 74.00 | -27.77 | Peak |
| 2 | 5150.000 | 8.39 | 32.61 | 51.23 | 44.64 | 74.00 | -29.36 | Peak |
| 3 | 5180.180 | 8.43 | 32.59 | 86.98 | 80.40 | 74.00 | 6.40 | Peak |

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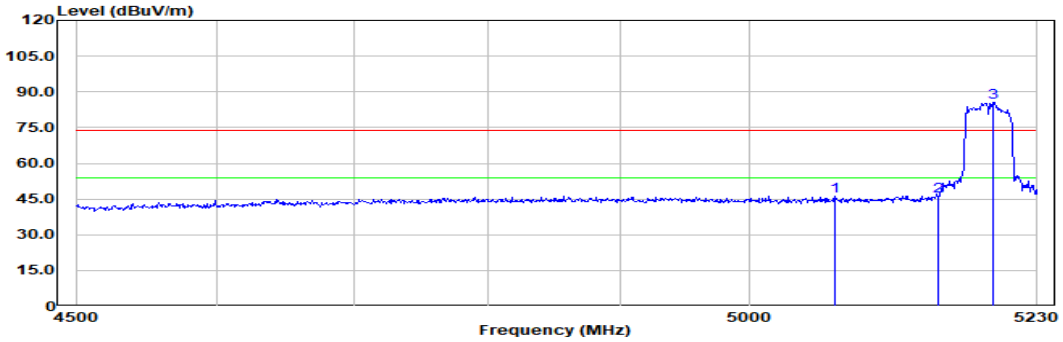
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5067.940 | 8.29 | 32.64 | 52.91 | 46.28 | 74.00 | -27.72 | Peak |
| 2 | 5150.000 | 8.39 | 32.61 | 52.71 | 46.12 | 74.00 | -27.88 | Peak |
| 3 | 5194.960 | 8.45 | 32.57 | 92.36 | 85.77 | 74.00 | 11.77 | Peak |

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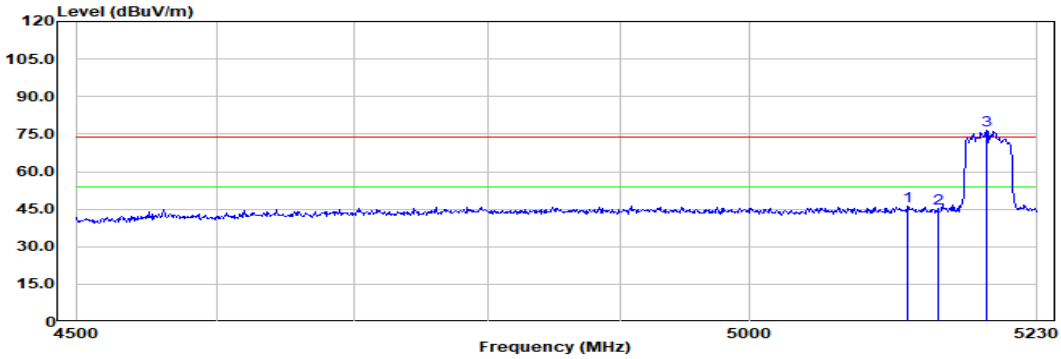
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5125.610 | 8.36 | 32.63 | 52.81 | 46.22 | 74.00 | -27.78 | Peak |
| 2 | 5150.000 | 8.39 | 32.61 | 52.08 | 45.49 | 74.00 | -28.51 | Peak |
| 3 | 5189.120 | 8.44 | 32.58 | 82.91 | 76.32 | 74.00 | 2.32 | Peak |

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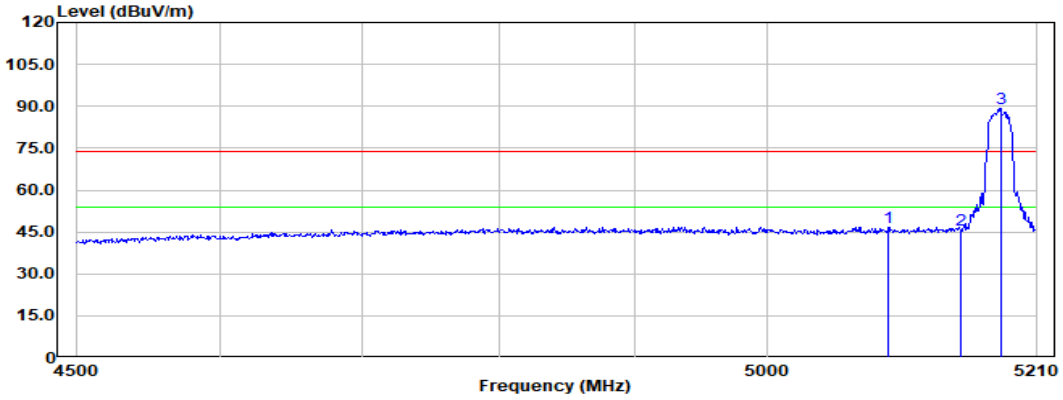
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5093.560 | 8.32 | 32.65 | 53.24 | 46.64 | 74.00 | -27.36 | Peak |
| 2 | 5150.000 | 8.39 | 32.61 | 52.54 | 45.95 | 74.00 | -28.05 | Peak |
| 3 | 5181.600 | 8.43 | 32.58 | 95.72 | 89.13 | 74.00 | 15.13 | Peak |

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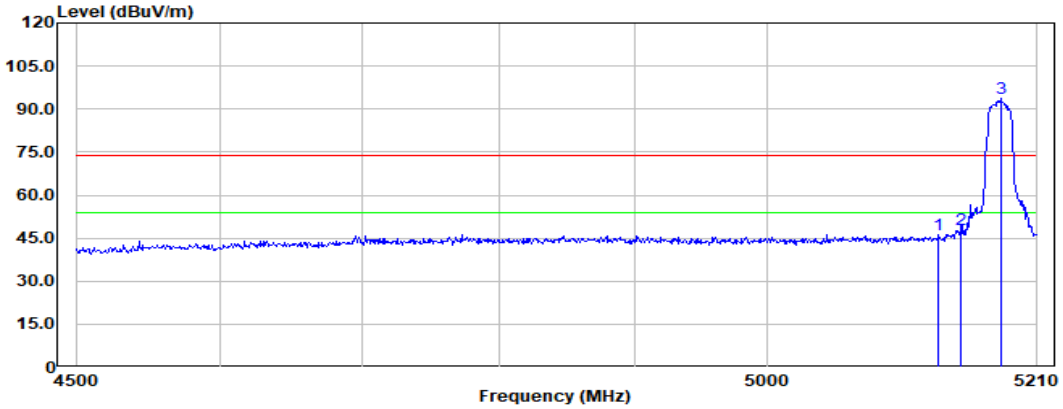
Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5132.610 | 8.37 | 32.62 | 52.67 | 46.07 | 74.00 | -27.93 | Peak |
| 2 | 5150.000 | 8.39 | 32.61 | 54.77 | 48.18 | 74.00 | -25.82 | Peak |
| 3 | 5181.600 | 8.43 | 32.58 | 100.16 | 93.57 | 74.00 | 19.57 | Peak |

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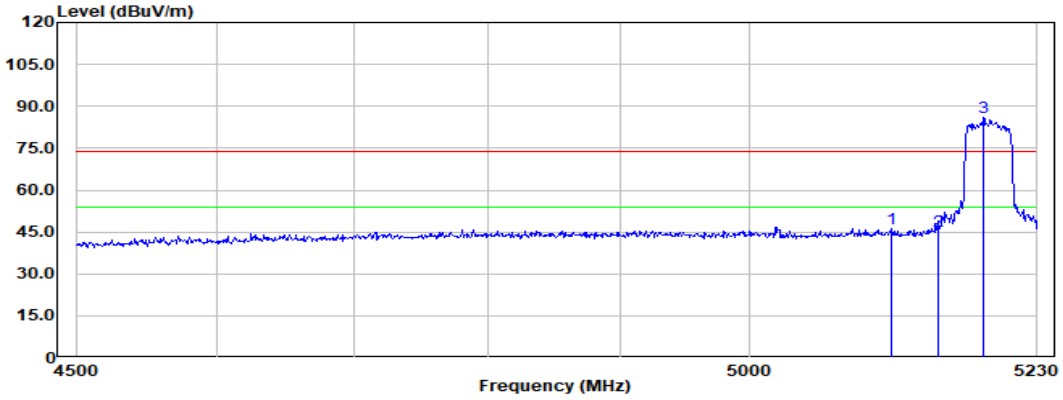
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5112.470 | 8.34 | 32.64 | 52.77 | 46.17 | 74.00 | -27.83 | Peak |
| 2 | 5150.000 | 8.39 | 32.61 | 51.66 | 45.07 | 74.00 | -28.93 | Peak |
| 3 | 5186.930 | 8.44 | 32.58 | 92.69 | 86.10 | 74.00 | 12.10 | Peak |

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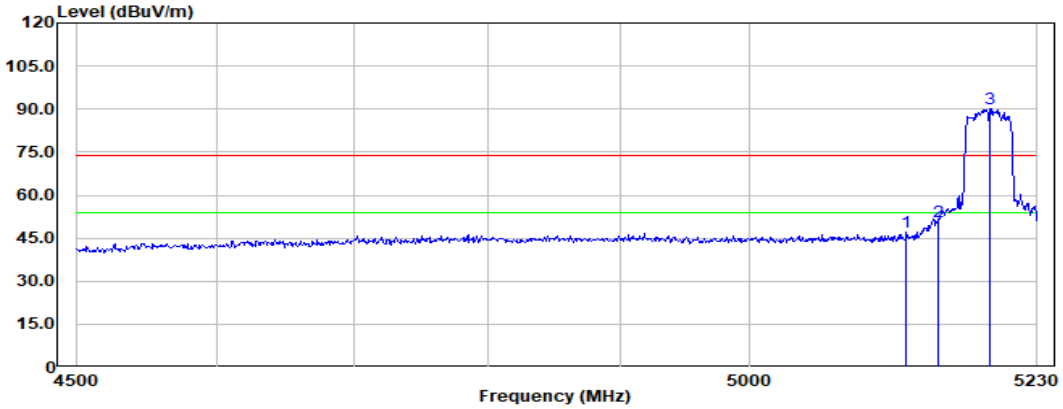
Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5124.150 | 8.36 | 32.63 | 53.70 | 47.11 | 74.00 | -26.89 | Peak |
| 2 | 5150.000 | 8.39 | 32.61 | 57.25 | 50.66 | 74.00 | -23.34 | Peak |
| 3 | 5192.040 | 8.44 | 32.58 | 96.70 | 90.11 | 74.00 | 16.11 | Peak |

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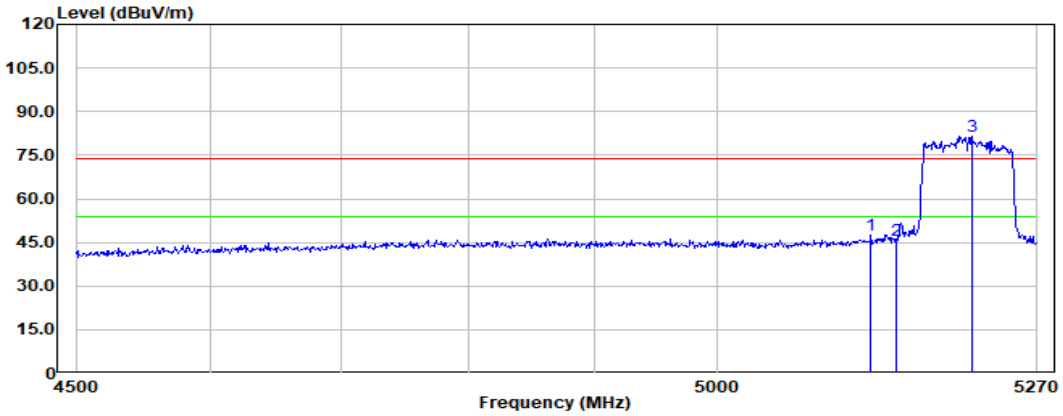
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5128.320 | 8.36 | 32.63 | 54.07 | 47.48 | 74.00 | -26.52 | Peak |
| 2 | 5150.000 | 8.39 | 32.61 | 52.41 | 45.82 | 74.00 | -28.18 | Peak |
| 3 | 5213.790 | 8.47 | 32.57 | 88.21 | 81.67 | 74.00 | 7.67 | Peak |

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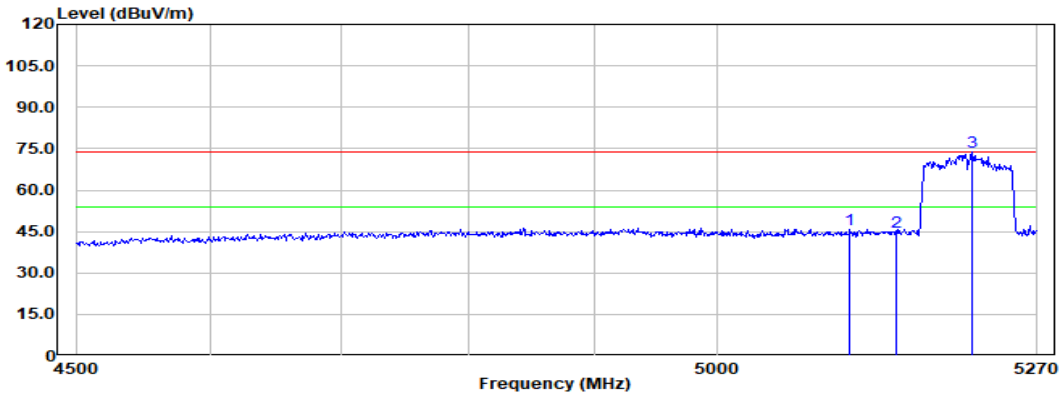
Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5110.610 | 8.34 | 32.64 | 52.54 | 45.94 | 74.00 | -28.06 | Peak |
| 2 | 5150.000 | 8.39 | 32.61 | 51.59 | 45.00 | 74.00 | -29.00 | Peak |
| 3 | 5213.790 | 8.47 | 32.57 | 80.27 | 73.73 | 74.00 | -0.27 | Peak |

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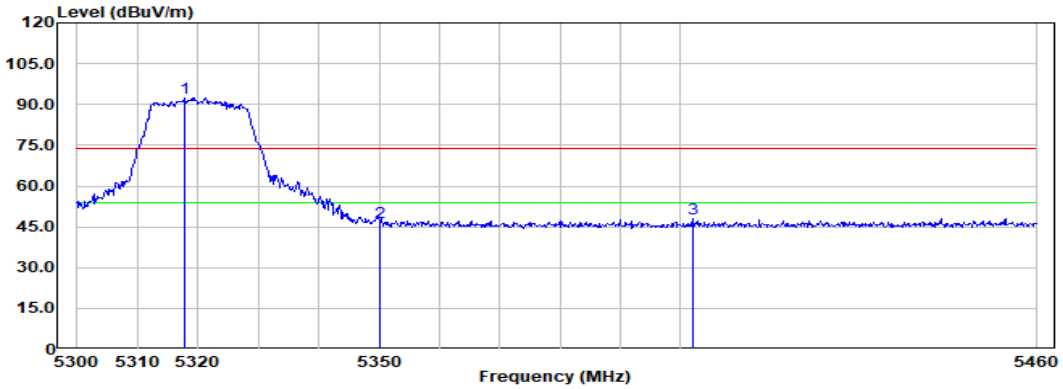
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5317.920 | 8.60 | 32.53 | 98.77 | 92.56 | 74.00 | 18.56 | Peak |
| 2 | 5350.000 | 8.64 | 32.52 | 52.54 | 46.44 | 74.00 | -27.56 | Peak |
| 3 | 5402.080 | 8.71 | 32.50 | 53.80 | 47.86 | 74.00 | -26.14 | Peak |

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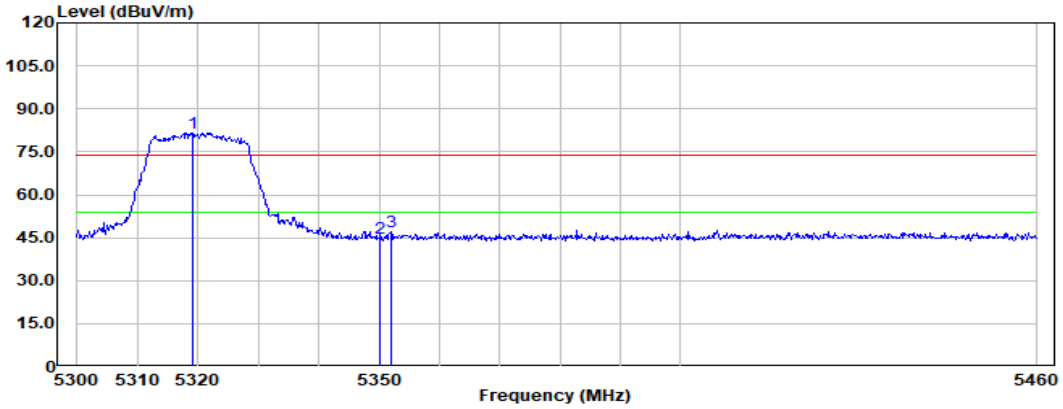
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5319.200 | 8.61 | 32.53 | 87.87 | 81.67 | 74.00 | 7.67 | Peak |
| 2 | 5350.000 | 8.64 | 32.52 | 50.94 | 44.84 | 74.00 | -29.16 | Peak |
| 3 | 5351.840 | 8.65 | 32.52 | 53.17 | 47.08 | 74.00 | -26.92 | Peak |

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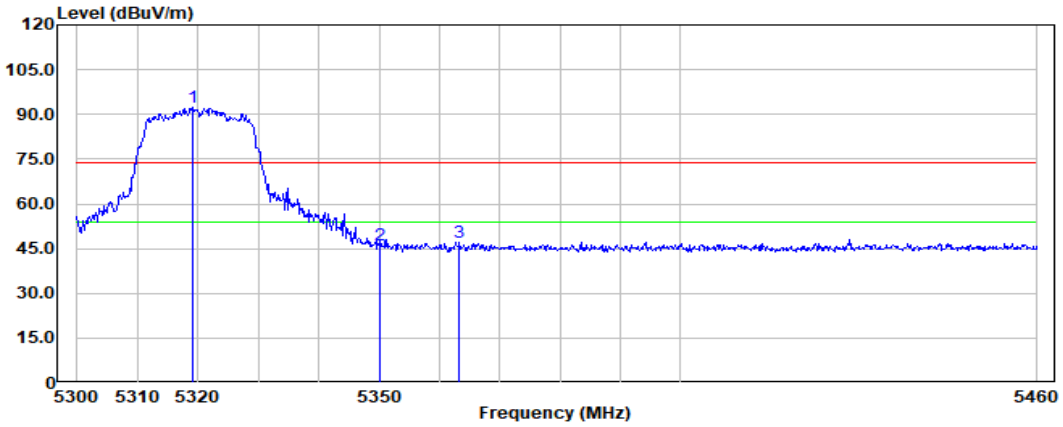
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5319.200 | 8.61 | 32.53 | 98.45 | 92.25 | 74.00 | 18.25 | Peak |
| 2 | 5350.000 | 8.64 | 32.52 | 52.31 | 46.21 | 74.00 | -27.79 | Peak |
| 3 | 5363.200 | 8.66 | 32.51 | 53.01 | 46.95 | 74.00 | -27.05 | Peak |

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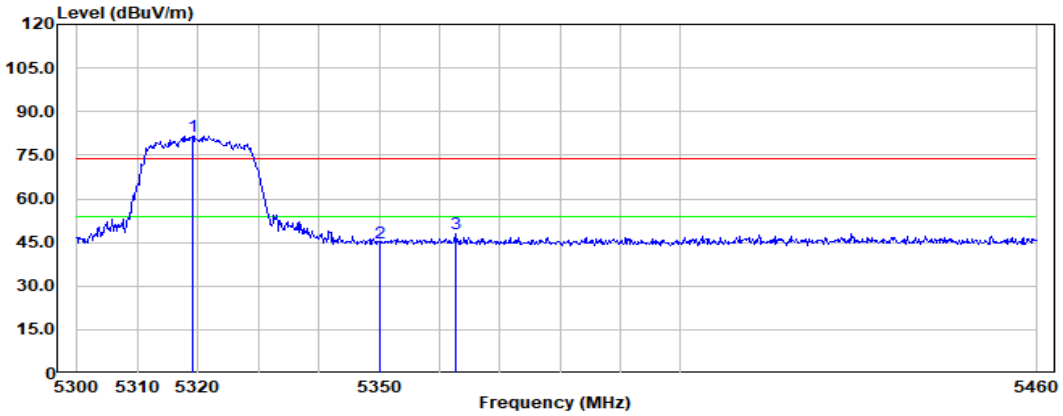
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5319.040 | 8.60 | 32.53 | 87.66 | 81.45 | 74.00 | 7.45 | Peak |
| 2 | 5350.000 | 8.64 | 32.52 | 50.79 | 44.69 | 74.00 | -29.31 | Peak |
| 3 | 5362.560 | 8.66 | 32.51 | 53.95 | 47.88 | 74.00 | -26.12 | Peak |

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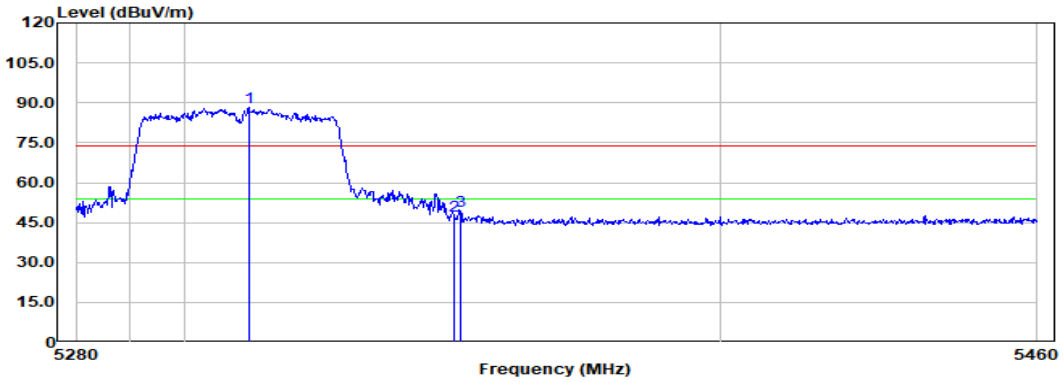
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5311.860 | 8.60 | 32.54 | 94.33 | 88.12 | 74.00 | 14.12 | Peak |
| 2 | 5350.000 | 8.64 | 32.52 | 53.44 | 47.34 | 74.00 | -26.66 | Peak |
| 3 | 5351.280 | 8.65 | 32.52 | 55.55 | 49.46 | 74.00 | -24.54 | Peak |

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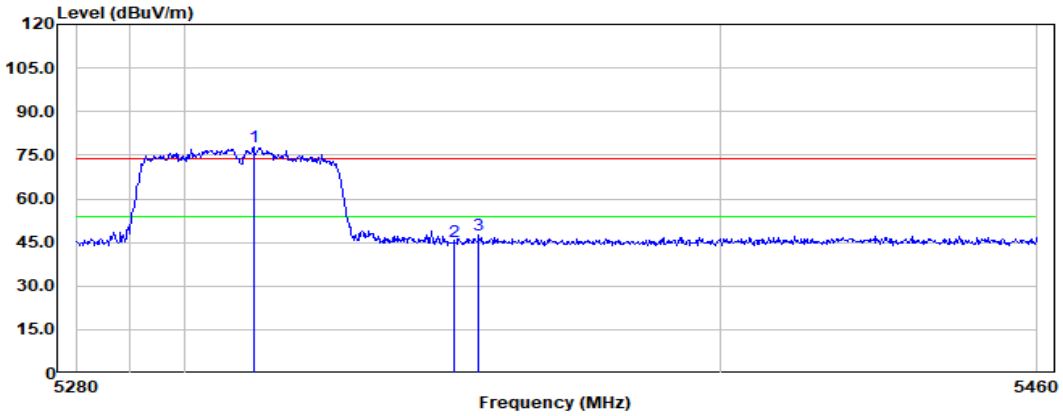
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5312.760 | 8.60 | 32.53 | 83.98 | 77.76 | 74.00 | 3.76 | Peak |
| 2 | 5350.020 | 8.64 | 32.52 | 51.28 | 45.18 | 74.00 | -28.82 | Peak |
| 3 | 5354.700 | 8.65 | 32.52 | 53.79 | 47.71 | 74.00 | -26.29 | Peak |

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

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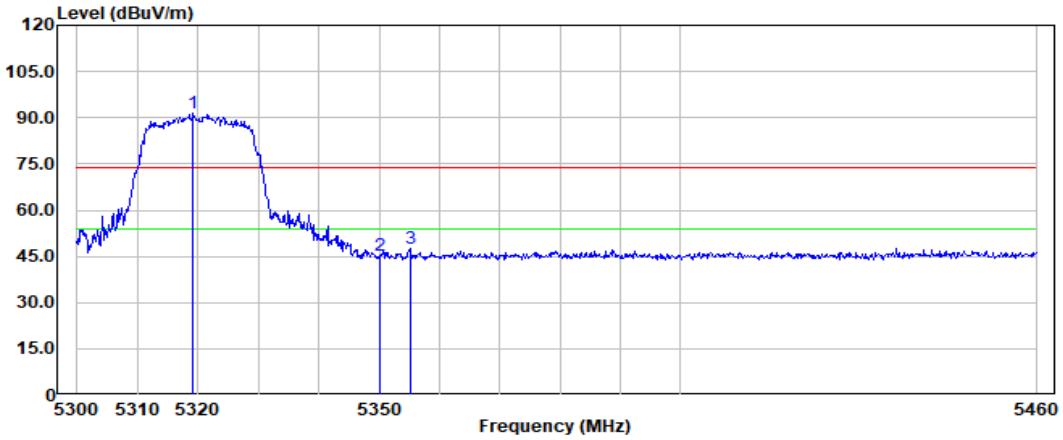


| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5319.200 | 8.61 | 32.53 | 97.58 | 91.38 | 74.00 | 17.38 | Peak |
| 2 | 5350.000 | 8.64 | 32.52 | 51.33 | 45.23 | 74.00 | -28.77 | Peak |
| 3 | 5355.040 | 8.65 | 32.52 | 53.83 | 47.75 | 74.00 | -26.25 | Peak |

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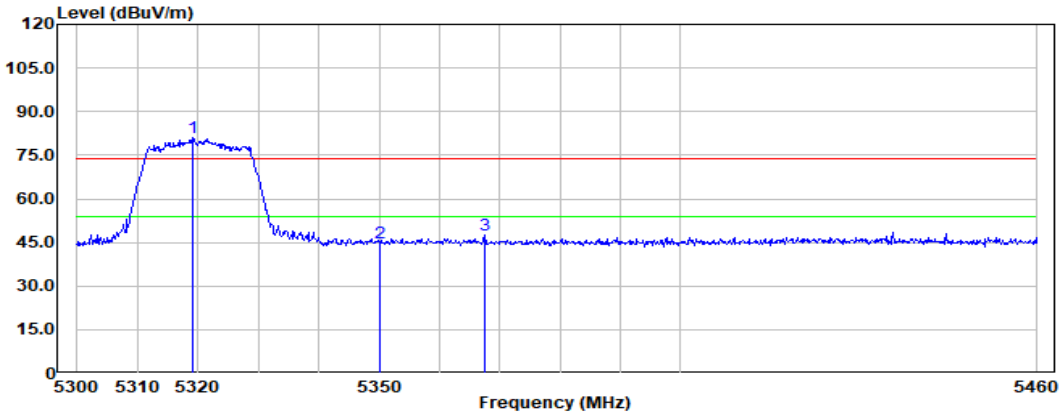
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5319.040 | 8.60 | 32.53 | 87.30 | 81.09 | 74.00 | 7.09 | Peak |
| 2 | 5350.000 | 8.64 | 32.52 | 51.08 | 44.98 | 74.00 | -29.02 | Peak |
| 3 | 5367.360 | 8.67 | 32.51 | 53.74 | 47.69 | 74.00 | -26.31 | Peak |

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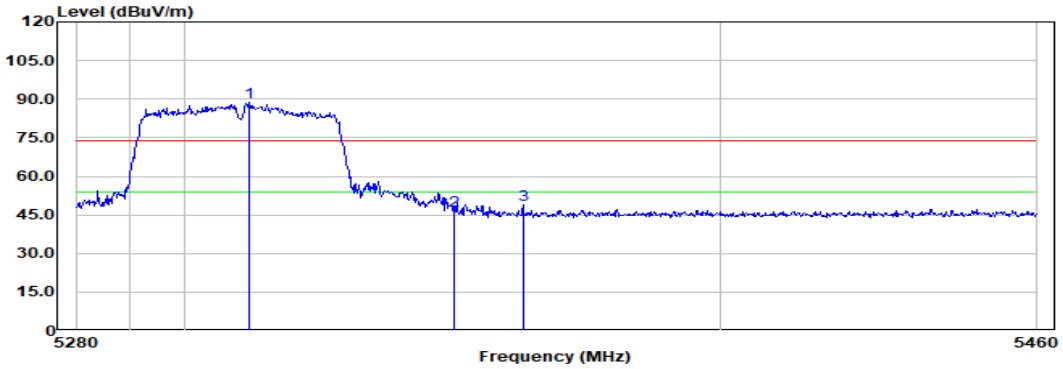
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5312.040 | 8.60 | 32.54 | 94.88 | 88.67 | 74.00 | 14.67 | Peak |
| 2 | 5350.000 | 8.64 | 32.52 | 52.75 | 46.65 | 74.00 | -27.35 | Peak |
| 3 | 5362.980 | 8.66 | 32.51 | 54.82 | 48.75 | 74.00 | -25.25 | Peak |

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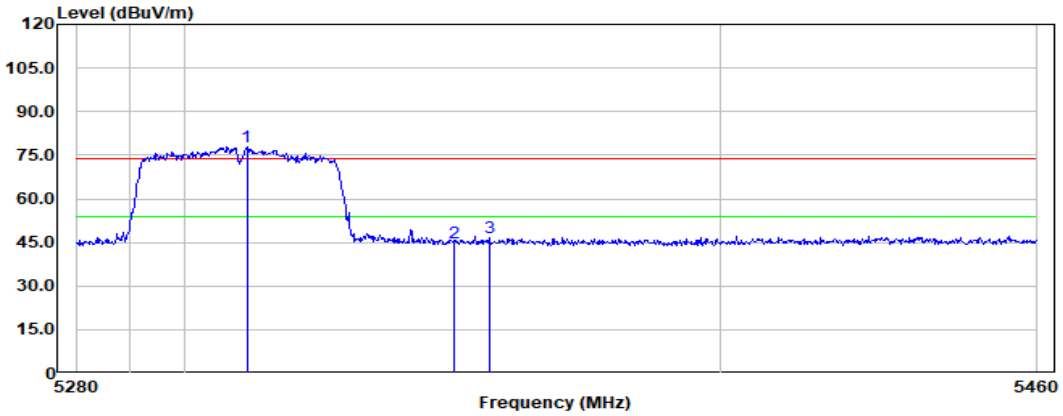
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5311.500 | 8.60 | 32.54 | 84.20 | 77.99 | 74.00 | 3.99 | Peak |
| 2 | 5350.020 | 8.64 | 32.52 | 50.75 | 44.65 | 74.00 | -29.35 | Peak |
| 3 | 5356.680 | 8.65 | 32.52 | 52.52 | 46.44 | 74.00 | -27.56 | Peak |

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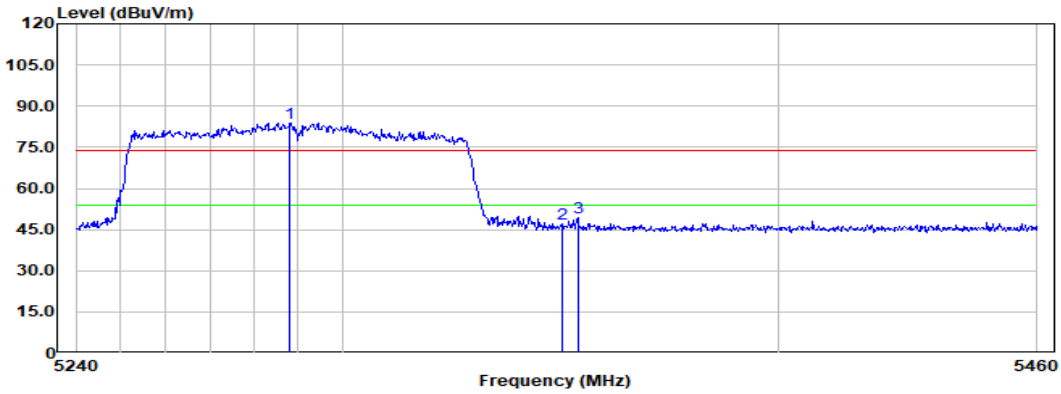
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5288.180 | 8.57 | 32.54 | 90.16 | 83.86 | 74.00 | 9.86 | Peak |
| 2 | 5350.000 | 8.64 | 32.52 | 53.23 | 47.13 | 74.00 | -26.87 | Peak |
| 3 | 5353.740 | 8.65 | 32.52 | 55.60 | 49.51 | 74.00 | -24.49 | Peak |

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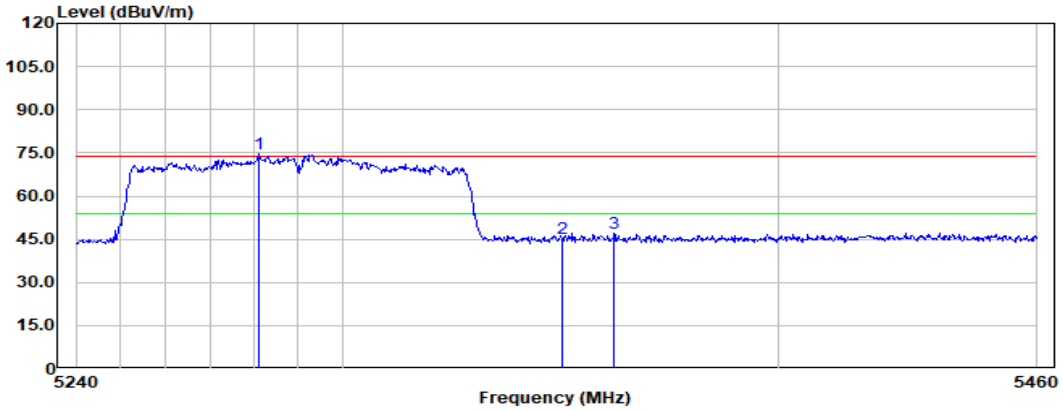
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5281.140 | 8.56 | 32.55 | 80.94 | 74.63 | 74.00 | 0.63 | Peak |
| 2 | 5350.000 | 8.64 | 32.52 | 51.17 | 45.07 | 74.00 | -28.93 | Peak |
| 3 | 5362.100 | 8.66 | 32.52 | 53.27 | 47.21 | 74.00 | -26.79 | Peak |

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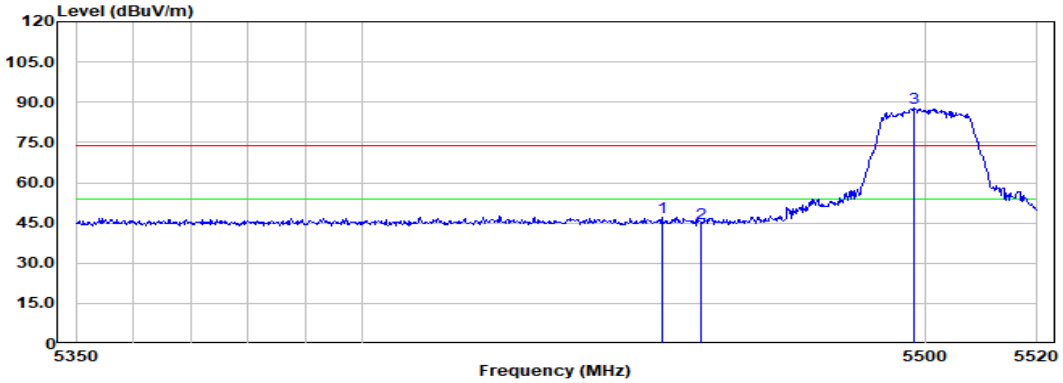
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5453.020 | 8.77 | 32.51 | 52.91 | 47.02 | 74.00 | -26.98 | Peak |
| 2 | 5460.000 | 8.78 | 32.51 | 50.83 | 44.95 | 74.00 | -29.05 | Peak |
| 3 | 5498.070 | 8.83 | 32.52 | 93.76 | 87.93 | 74.00 | 13.93 | Peak |

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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

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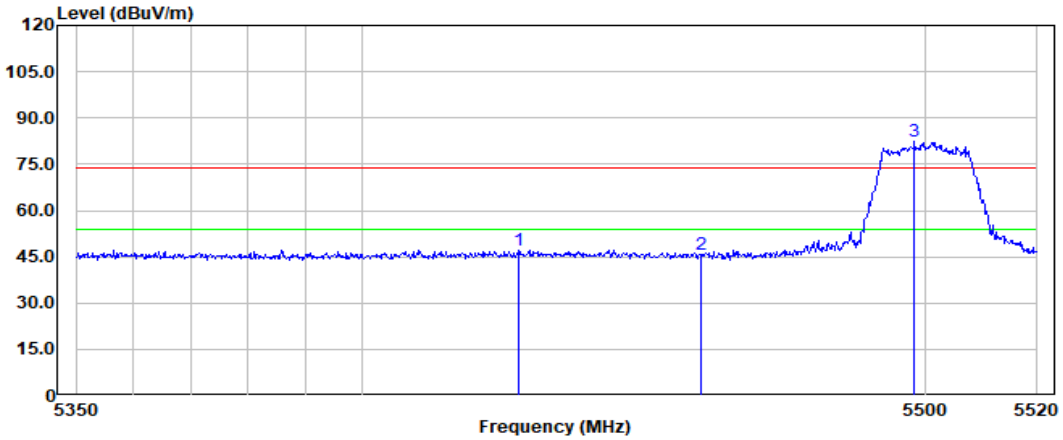


| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5427.690 | 8.74 | 32.51 | 53.11 | 47.20 | 74.00 | -26.80 | Peak |
| 2 | 5460.000 | 8.78 | 32.51 | 51.47 | 45.59 | 74.00 | -28.41 | Peak |
| 3 | 5498.070 | 8.83 | 32.52 | 88.21 | 82.38 | 74.00 | 8.38 | Peak |

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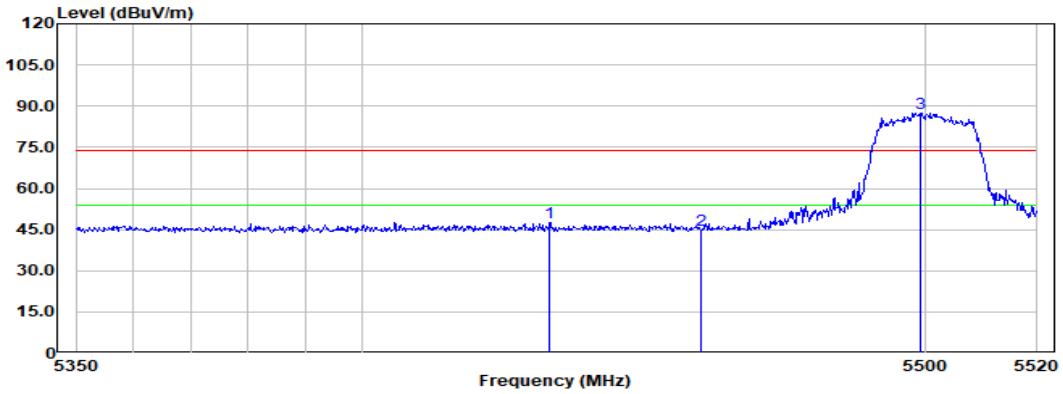
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5433.130 | 8.75 | 32.51 | 53.60 | 47.70 | 74.00 | -26.30 | Peak |
| 2 | 5460.000 | 8.78 | 32.51 | 50.60 | 44.72 | 74.00 | -29.28 | Peak |
| 3 | 5499.090 | 8.83 | 32.52 | 93.29 | 87.46 | 74.00 | 13.46 | Peak |

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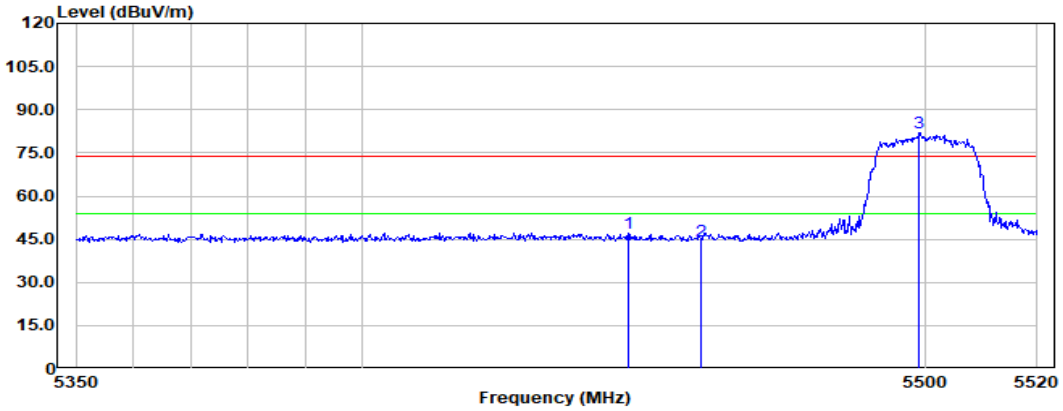
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5447.070 | 8.77 | 32.51 | 52.79 | 46.90 | 74.00 | -27.10 | Peak |
| 2 | 5460.000 | 8.78 | 32.51 | 50.38 | 44.50 | 74.00 | -29.50 | Peak |
| 3 | 5498.920 | 8.83 | 32.52 | 87.61 | 81.78 | 74.00 | 7.78 | Peak |

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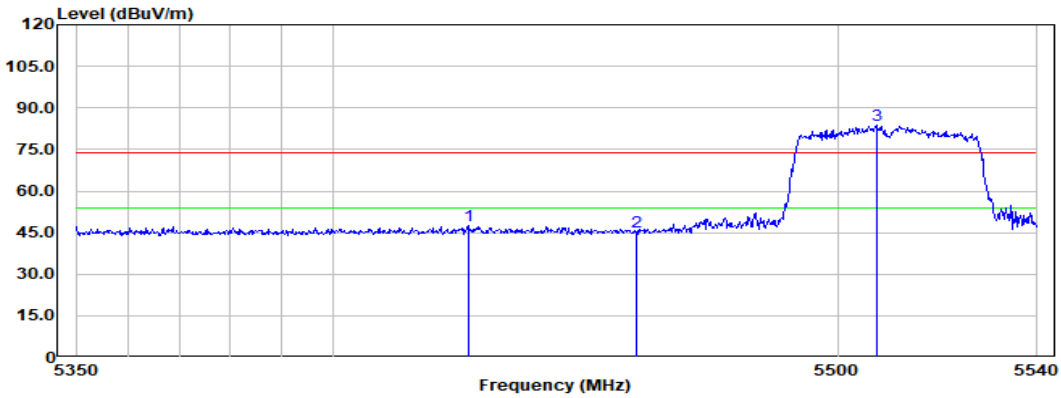
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5426.760 | 8.74 | 32.51 | 53.62 | 47.71 | 74.00 | -26.29 | Peak |
| 2 | 5460.000 | 8.78 | 32.51 | 51.04 | 45.16 | 74.00 | -28.84 | Peak |
| 3 | 5507.890 | 8.84 | 32.53 | 89.68 | 83.86 | 74.00 | 9.86 | Peak |

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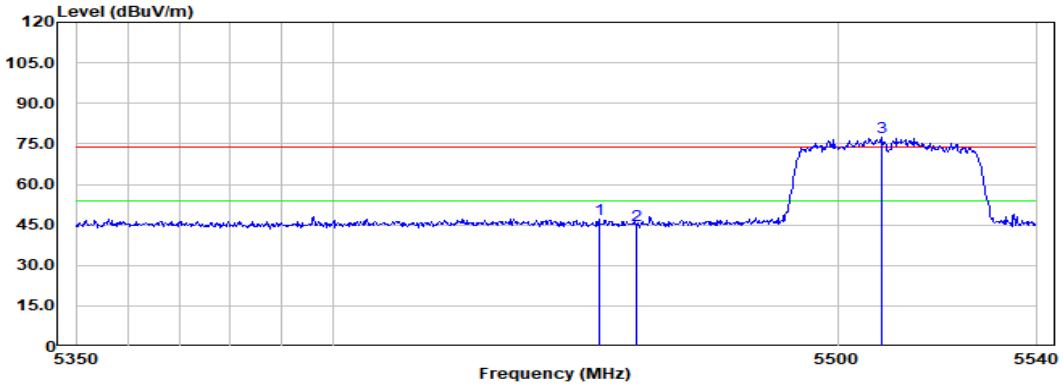
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5452.600 | 8.77 | 32.51 | 53.19 | 47.30 | 74.00 | -26.70 | Peak |
| 2 | 5460.000 | 8.78 | 32.51 | 50.59 | 44.71 | 74.00 | -29.29 | Peak |
| 3 | 5508.840 | 8.85 | 32.53 | 83.31 | 77.50 | 74.00 | 3.50 | Peak |

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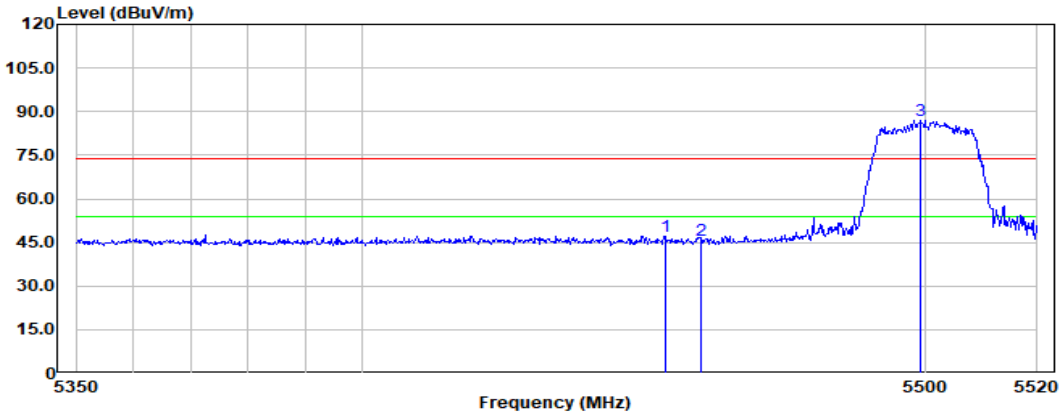
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5453.530 | 8.78 | 32.51 | 52.91 | 47.03 | 74.00 | -26.97 | Peak |
| 2 | 5460.000 | 8.78 | 32.51 | 51.67 | 45.79 | 74.00 | -28.21 | Peak |
| 3 | 5499.260 | 8.83 | 32.52 | 92.78 | 86.95 | 74.00 | 12.95 | Peak |

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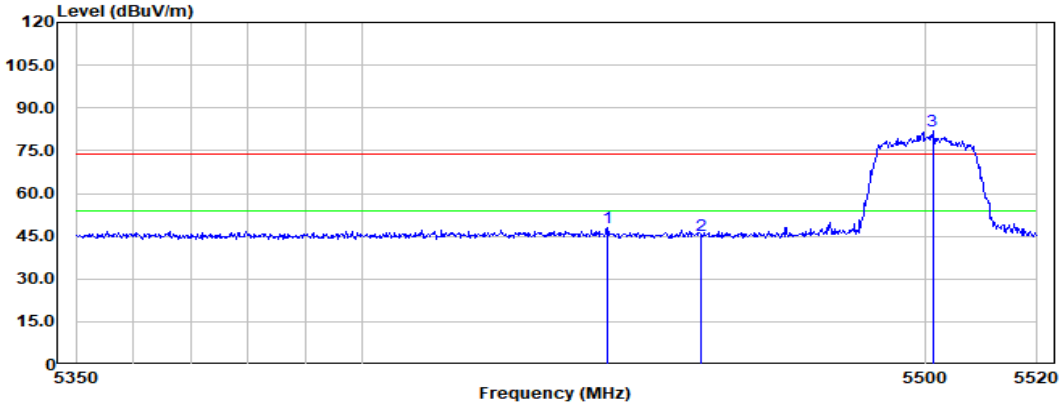
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5443.330 | 8.76 | 32.51 | 53.75 | 47.85 | 74.00 | -26.15 | Peak |
| 2 | 5460.000 | 8.78 | 32.51 | 51.28 | 45.40 | 74.00 | -28.60 | Peak |
| 3 | 5501.300 | 8.84 | 32.52 | 87.61 | 81.78 | 74.00 | 7.78 | Peak |

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

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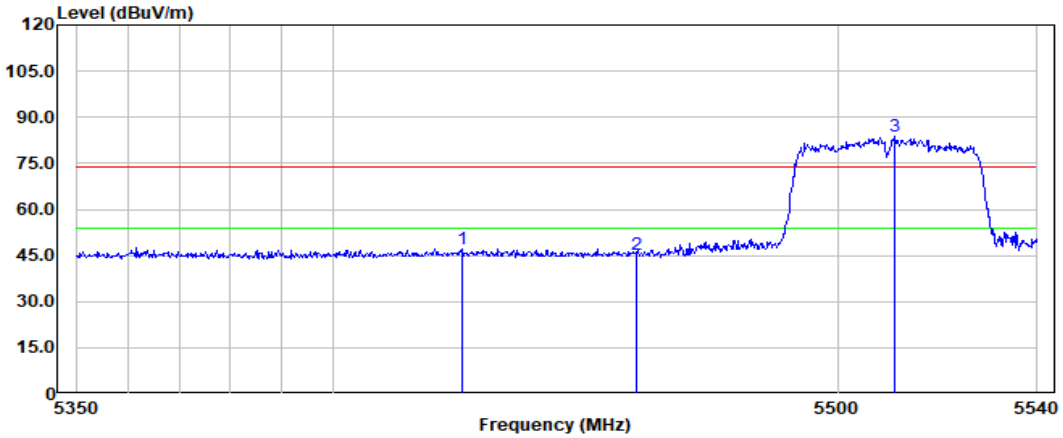


| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5425.430 | 8.74 | 32.51 | 53.13 | 47.22 | 74.00 | -26.78 | Peak |
| 2 | 5460.000 | 8.78 | 32.51 | 51.16 | 45.28 | 74.00 | -28.72 | Peak |
| 3 | 5511.500 | 8.85 | 32.53 | 89.45 | 83.64 | 74.00 | 9.64 | Peak |

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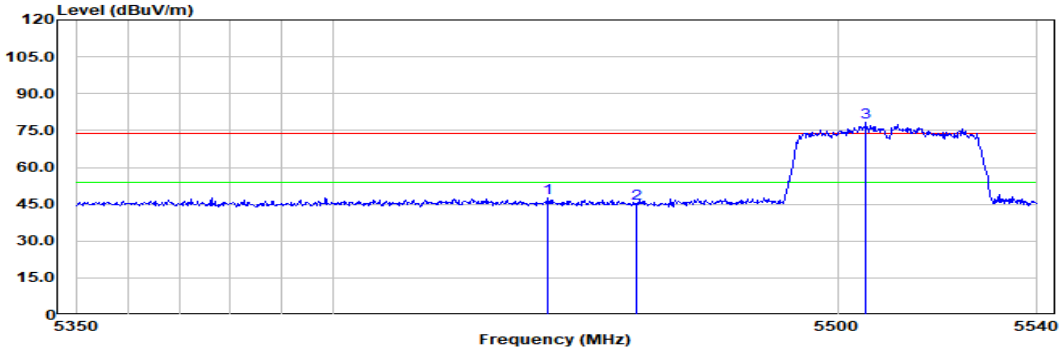
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5442.530 | 8.76 | 32.51 | 53.23 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 5460.000 | 8.78 | 32.51 | 51.09 | 45.21 | 74.00 | -28.79 | Peak |
| 3 | 5505.800 | 8.84 | 32.53 | 84.03 | 78.21 | 74.00 | 4.21 | Peak |

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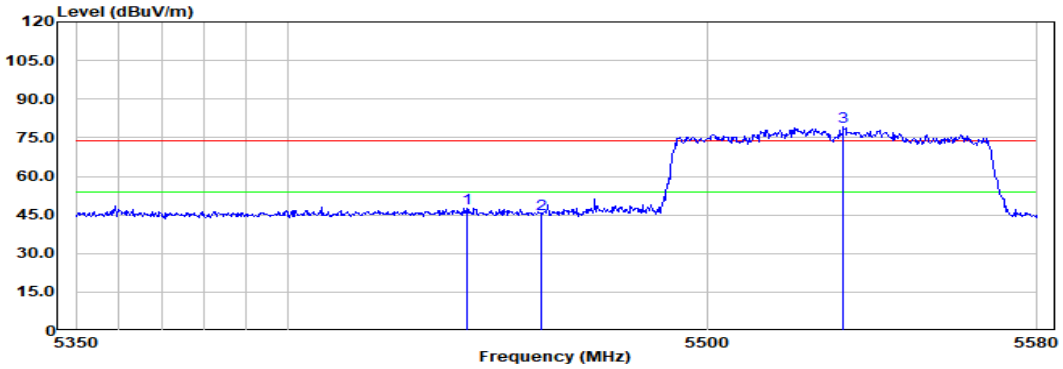
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5442.230 | 8.76 | 32.51 | 53.66 | 47.77 | 74.00 | -26.23 | Peak |
| 2 | 5460.000 | 8.78 | 32.51 | 51.06 | 45.18 | 74.00 | -28.82 | Peak |
| 3 | 5532.850 | 8.88 | 32.56 | 84.84 | 79.08 | 74.00 | 5.08 | Peak |

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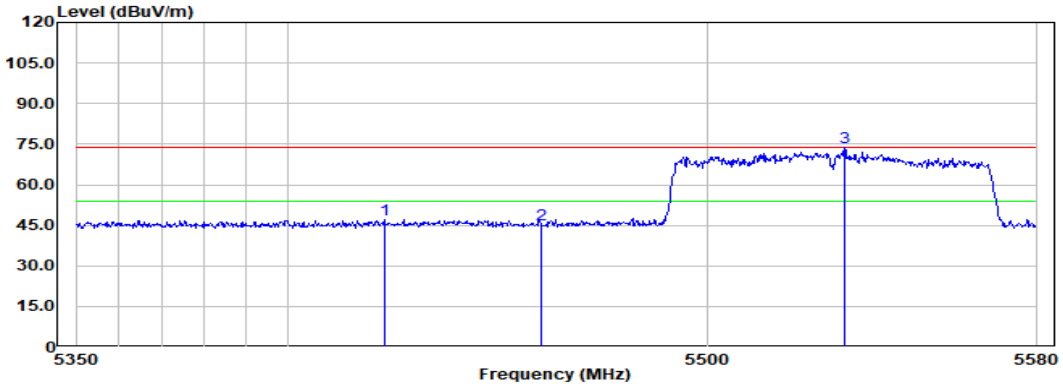
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC CLA | Over FCC CLA | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5422.680 | 8.74 | 32.50 | 52.95 | 47.03 | 74.00 | -26.97 | Peak |
| 2 | 5460.000 | 8.78 | 32.51 | 51.32 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 5533.310 | 8.88 | 32.56 | 79.42 | 73.66 | 74.00 | -0.34 | Peak |

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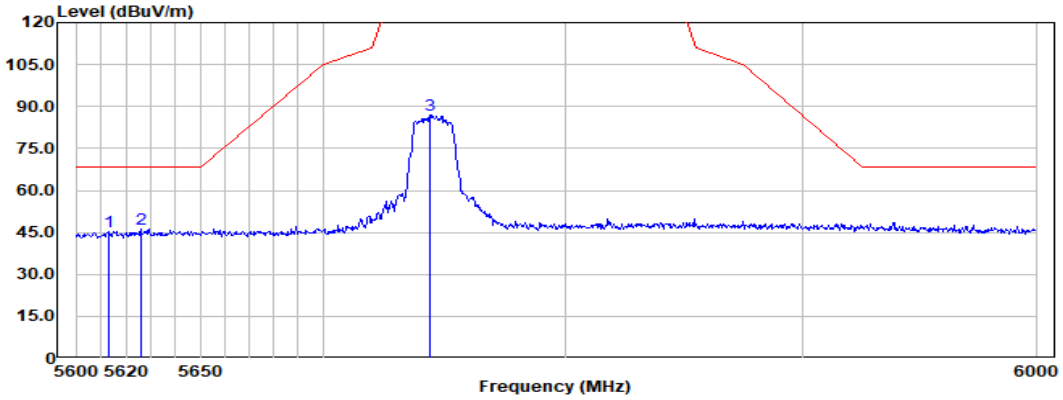
Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5613.200 | 8.94 | 32.68 | 50.99 | 45.40 | 68.20 | -22.80 | Peak |
| 2 | 5626.000 | 8.94 | 32.74 | 51.70 | 46.19 | 68.20 | -22.01 | Peak |
| 3 | 5744.000 | 9.01 | 33.24 | 91.82 | 87.00 | 135.00 | -48.00 | Peak |

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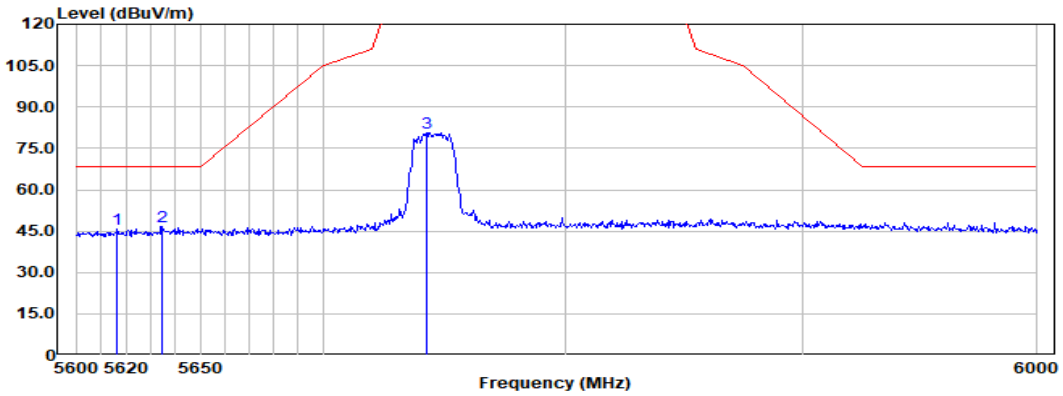
Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5616.400 | 8.94 | 32.70 | 51.13 | 45.57 | 68.20 | -22.63 | Peak |
| 2 | 5634.400 | 8.95 | 32.77 | 52.11 | 46.65 | 68.20 | -21.55 | Peak |
| 3 | 5742.800 | 9.01 | 33.24 | 85.59 | 80.77 | 135.00 | -54.23 | Peak |

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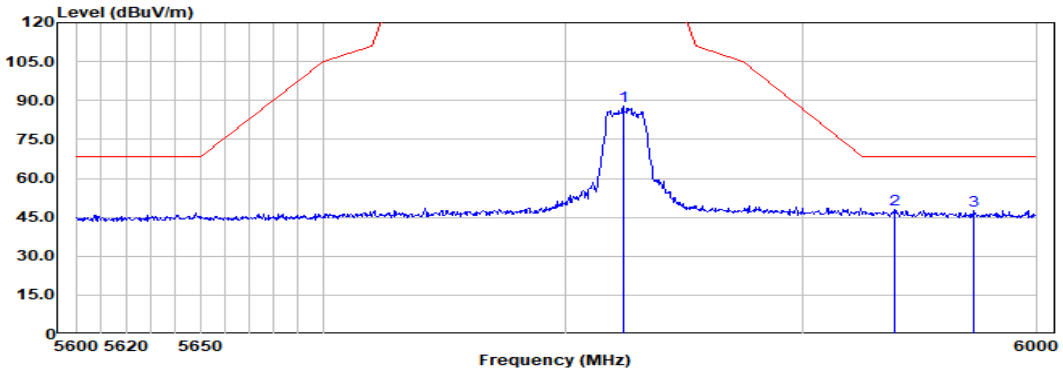
Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5824.400 | 9.05 | 33.52 | 92.25 | 87.76 | 135.00 | -47.24 | Peak |
| 2 | 5939.200 | 9.11 | 33.55 | 52.47 | 47.86 | 68.20 | -20.34 | Peak |
| 3 | 5972.800 | 9.13 | 33.51 | 52.36 | 47.67 | 68.20 | -20.53 | Peak |

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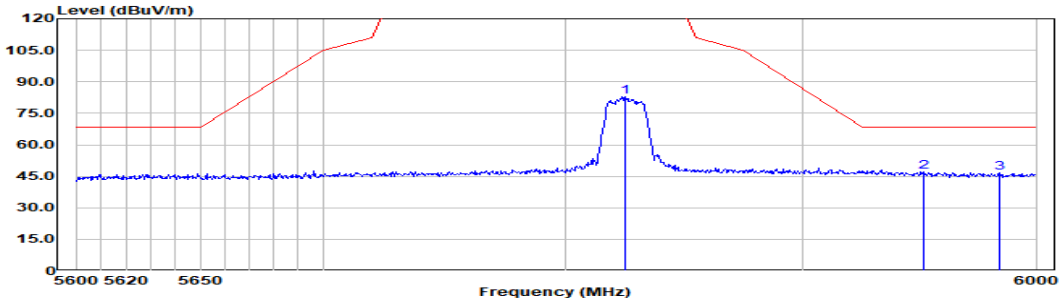
Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5825.200 | 9.05 | 33.53 | 87.33 | 82.85 | 135.00 | -52.15 | Peak |
| 2 | 5951.200 | 9.11 | 33.53 | 51.83 | 47.18 | 68.20 | -21.02 | Peak |
| 3 | 5984.000 | 9.13 | 33.49 | 51.40 | 46.67 | 68.20 | -21.53 | Peak |

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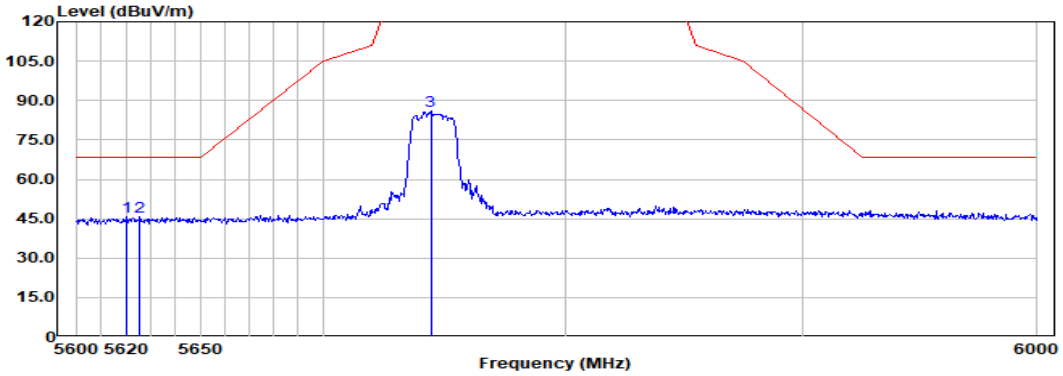
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5620.400 | 8.94 | 32.71 | 51.45 | 45.90 | 68.20 | -22.30 | Peak |
| 2 | 5625.600 | 8.94 | 32.73 | 51.47 | 45.95 | 68.20 | -22.25 | Peak |
| 3 | 5744.400 | 9.01 | 33.24 | 90.89 | 86.07 | 135.00 | -48.93 | Peak |

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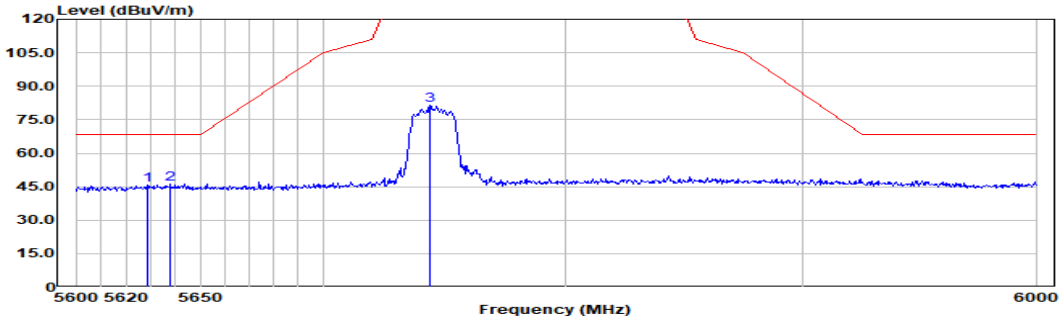
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5628.400 | 8.95 | 32.75 | 51.31 | 45.82 | 68.20 | -22.38 | Peak |
| 2 | 5638.000 | 8.95 | 32.79 | 51.84 | 46.40 | 68.20 | -21.80 | Peak |
| 3 | 5744.000 | 9.01 | 33.24 | 86.41 | 81.59 | 135.00 | -53.41 | Peak |

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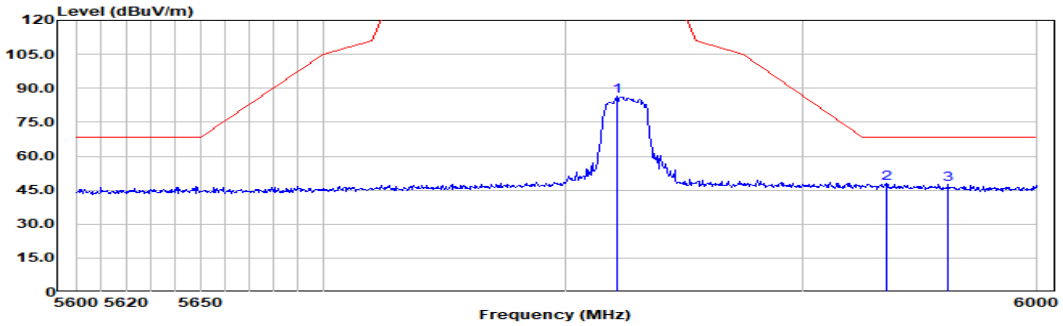
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5822.000 | 9.05 | 33.52 | 91.15 | 86.67 | 135.00 | -48.33 | Peak |
| 2 | 5935.600 | 9.11 | 33.55 | 52.73 | 48.13 | 68.20 | -20.07 | Peak |
| 3 | 5962.000 | 9.12 | 33.52 | 52.35 | 47.68 | 68.20 | -20.52 | Peak |

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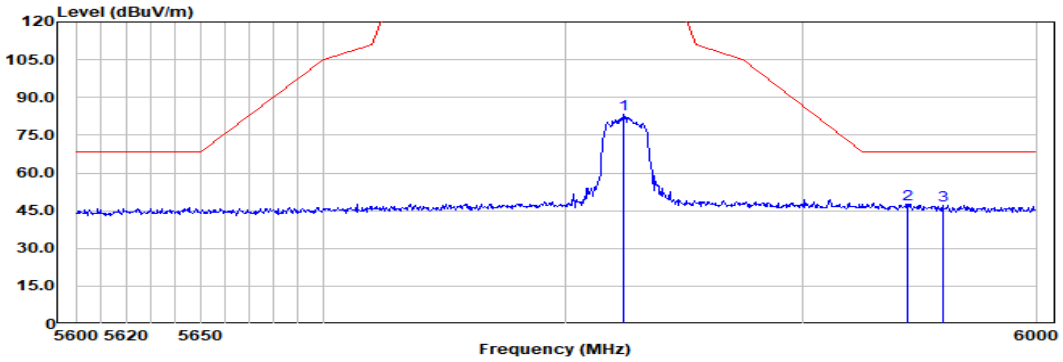
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5824.800 | 9.05 | 33.52 | 87.82 | 83.33 | 135.00 | -51.67 | Peak |
| 2 | 5944.400 | 9.11 | 33.54 | 52.18 | 47.55 | 68.20 | -20.65 | Peak |
| 3 | 5959.600 | 9.12 | 33.52 | 51.88 | 47.21 | 68.20 | -20.99 | Peak |

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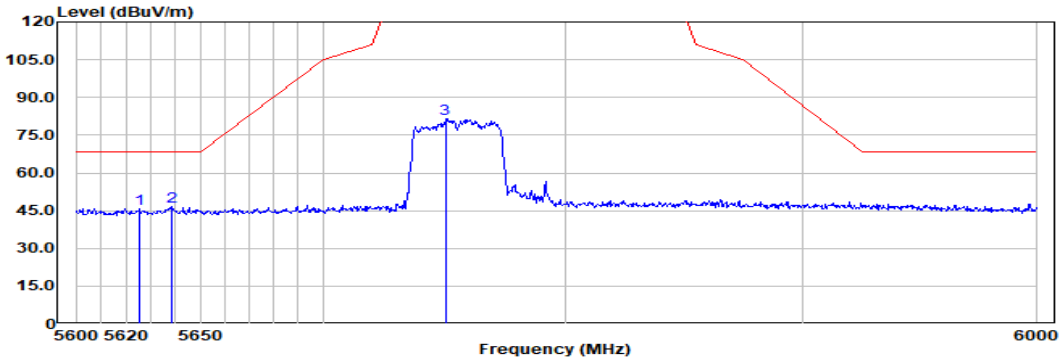
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5625.600 | 8.94 | 32.73 | 51.29 | 45.77 | 68.20 | -22.43 | Peak |
| 2 | 5638.800 | 8.95 | 32.79 | 51.89 | 46.45 | 68.20 | -21.75 | Peak |
| 3 | 5750.400 | 9.01 | 33.27 | 86.30 | 81.52 | 135.00 | -53.48 | Peak |

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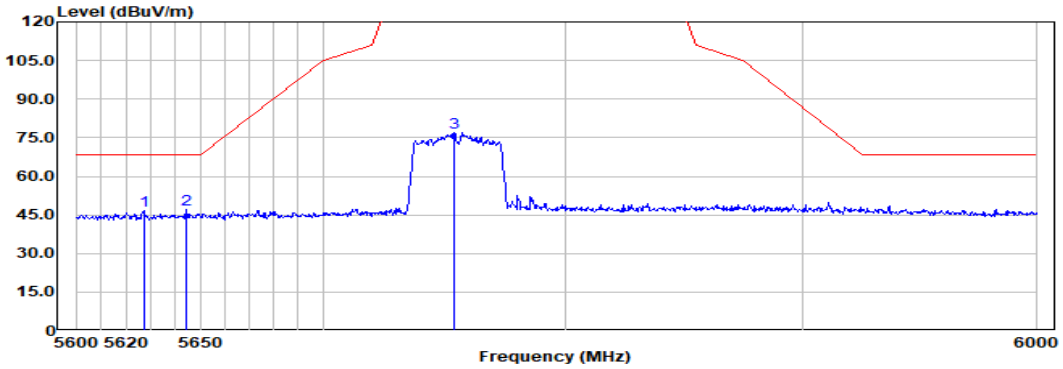
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5627.200 | 8.95 | 32.74 | 51.94 | 46.44 | 68.20 | -21.76 | Peak |
| 2 | 5644.400 | 8.95 | 32.81 | 52.68 | 47.27 | 68.20 | -20.93 | Peak |
| 3 | 5754.000 | 9.01 | 33.29 | 81.73 | 76.97 | 135.00 | -58.03 | Peak |

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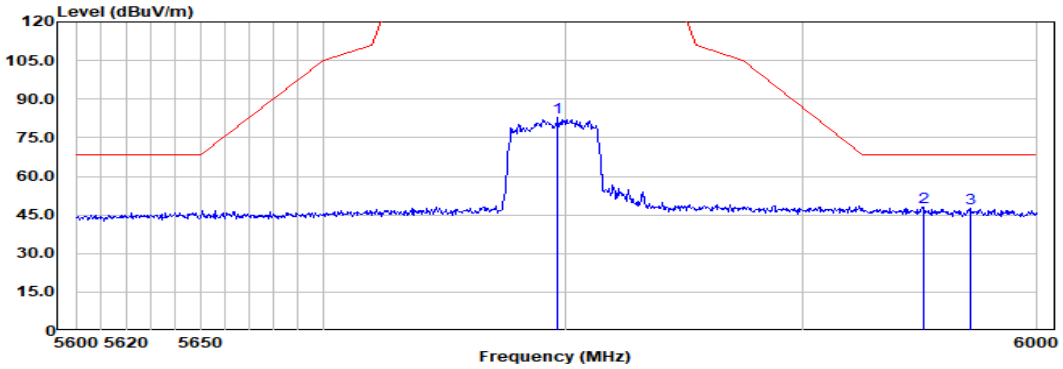
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5797.200 | 9.03 | 33.49 | 87.18 | 82.69 | 135.00 | -52.31 | Peak |
| 2 | 5951.200 | 9.11 | 33.53 | 52.81 | 48.16 | 68.20 | -20.04 | Peak |
| 3 | 5971.200 | 9.12 | 33.51 | 52.09 | 47.39 | 68.20 | -20.81 | Peak |

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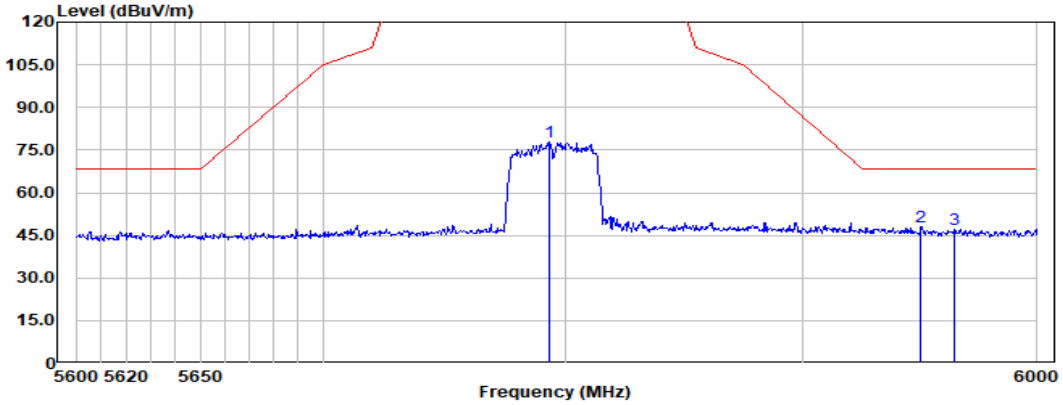
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5793.600 | 9.03 | 33.47 | 82.53 | 78.01 | 135.00 | -56.99 | Peak |
| 2 | 5950.400 | 9.11 | 33.53 | 52.86 | 48.21 | 68.20 | -19.99 | Peak |
| 3 | 5964.800 | 9.12 | 33.52 | 51.78 | 47.11 | 68.20 | -21.09 | Peak |

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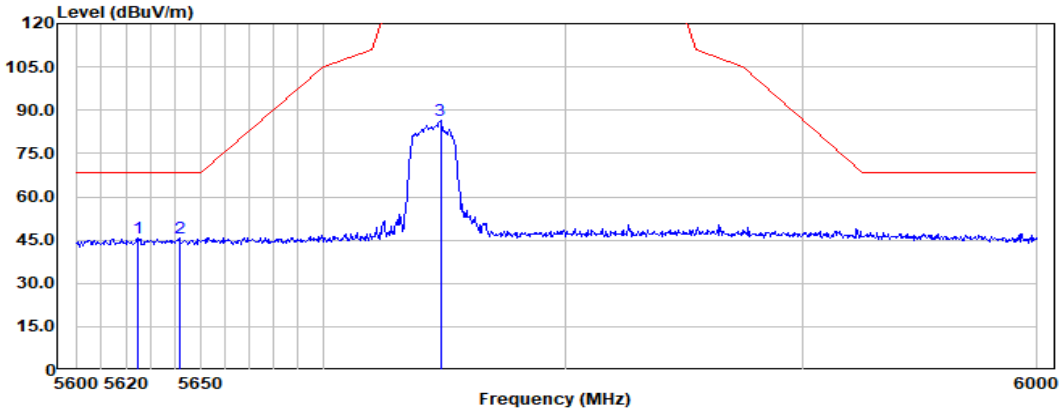
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5624.800 | 8.94 | 32.73 | 51.18 | 45.66 | 68.20 | -22.54 | Peak |
| 2 | 5641.600 | 8.95 | 32.80 | 50.97 | 45.54 | 68.20 | -22.66 | Peak |
| 3 | 5748.400 | 9.01 | 33.26 | 91.10 | 86.31 | 135.00 | -48.69 | Peak |

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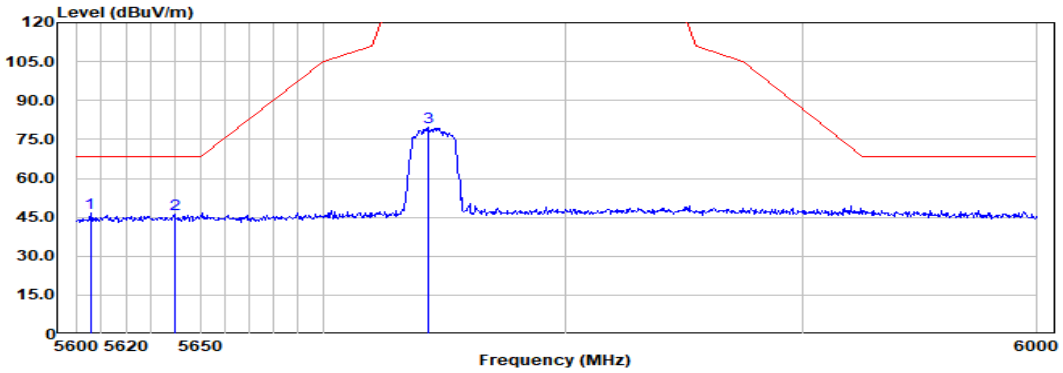
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5605.600 | 8.93 | 32.65 | 52.35 | 46.72 | 68.20 | -21.48 | Peak |
| 2 | 5639.600 | 8.95 | 32.79 | 51.46 | 46.02 | 68.20 | -22.18 | Peak |
| 3 | 5743.600 | 9.01 | 33.24 | 84.49 | 79.67 | 135.00 | -55.33 | Peak |

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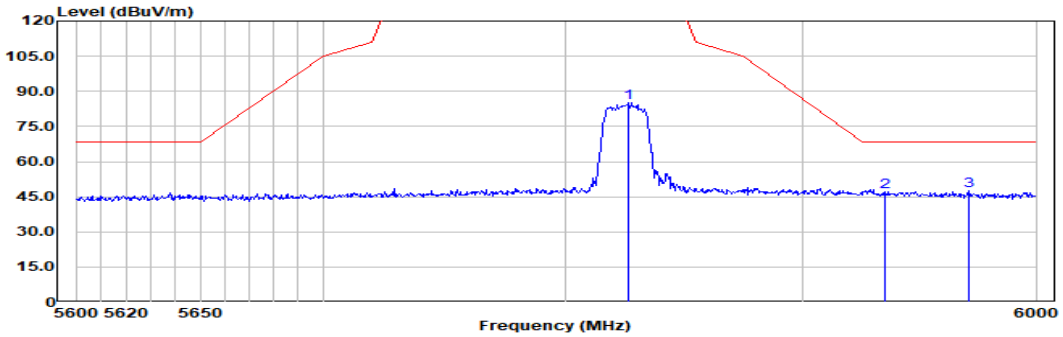
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5826.800 | 9.05 | 33.53 | 89.65 | 85.17 | 135.00 | -49.83 | Peak |
| 2 | 5935.200 | 9.11 | 33.55 | 51.75 | 47.15 | 68.20 | -21.05 | Peak |
| 3 | 5970.800 | 9.12 | 33.51 | 52.11 | 47.41 | 68.20 | -20.79 | Peak |

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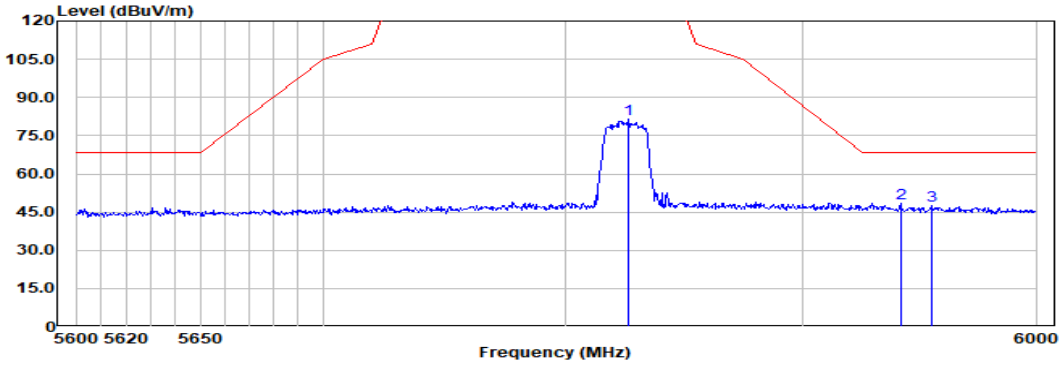
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5826.800 | 9.05 | 33.53 | 85.85 | 81.37 | 135.00 | -53.63 | Peak |
| 2 | 5941.600 | 9.11 | 33.55 | 52.96 | 48.35 | 68.20 | -19.85 | Peak |
| 3 | 5954.800 | 9.12 | 33.53 | 52.09 | 47.44 | 68.20 | -20.76 | Peak |

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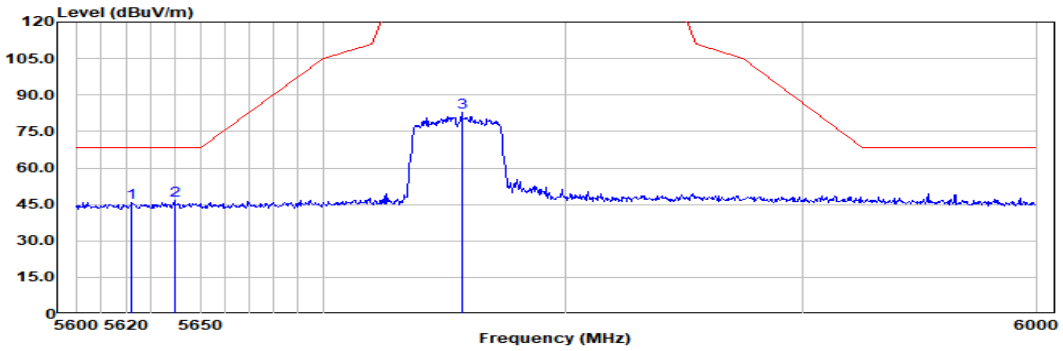
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5622.400 | 8.94 | 32.72 | 51.37 | 45.83 | 68.20 | -22.37 | Peak |
| 2 | 5639.600 | 8.95 | 32.79 | 52.28 | 46.84 | 68.20 | -21.36 | Peak |
| 3 | 5757.200 | 9.01 | 33.30 | 87.54 | 82.80 | 135.00 | -52.20 | Peak |

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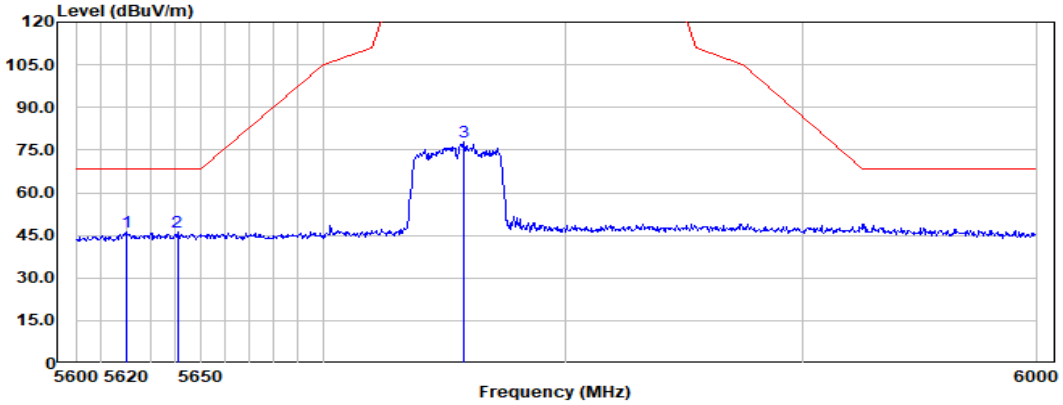
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5620.000 | 8.94 | 32.71 | 51.64 | 46.09 | 68.20 | -22.11 | Peak |
| 2 | 5640.800 | 8.95 | 32.80 | 51.44 | 46.01 | 68.20 | -22.19 | Peak |
| 3 | 5758.000 | 9.01 | 33.31 | 82.68 | 77.95 | 135.00 | -57.05 | Peak |

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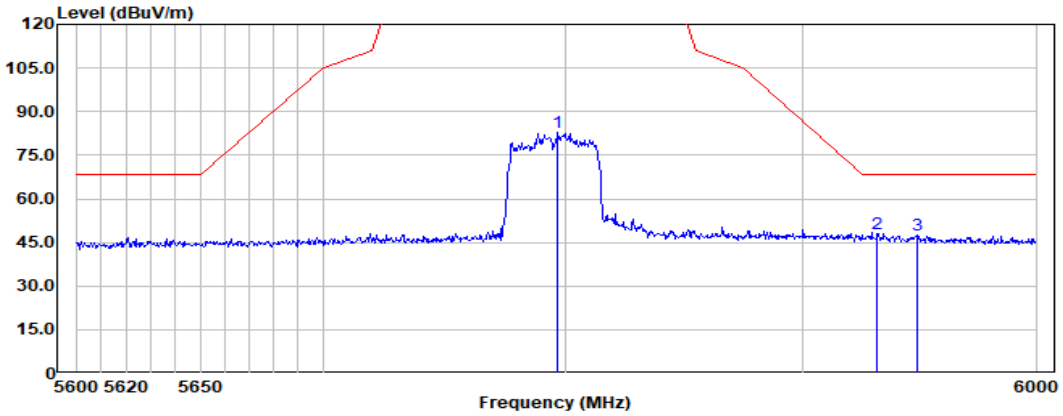
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5797.200 | 9.03 | 33.49 | 87.28 | 82.79 | 135.00 | -52.21 | Peak |
| 2 | 5931.600 | 9.10 | 33.56 | 52.78 | 48.19 | 68.20 | -20.01 | Peak |
| 3 | 5948.400 | 9.11 | 33.54 | 52.01 | 47.38 | 68.20 | -20.82 | Peak |

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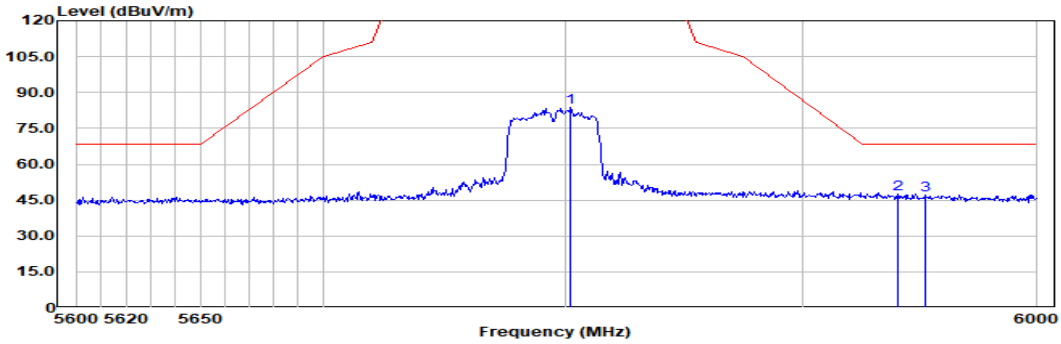
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5802.400 | 9.04 | 33.50 | 88.17 | 83.70 | 135.00 | -51.30 | Peak |
| 2 | 5940.400 | 9.11 | 33.55 | 52.25 | 47.64 | 68.20 | -20.56 | Peak |
| 3 | 5952.400 | 9.12 | 33.53 | 51.83 | 47.19 | 68.20 | -21.01 | Peak |

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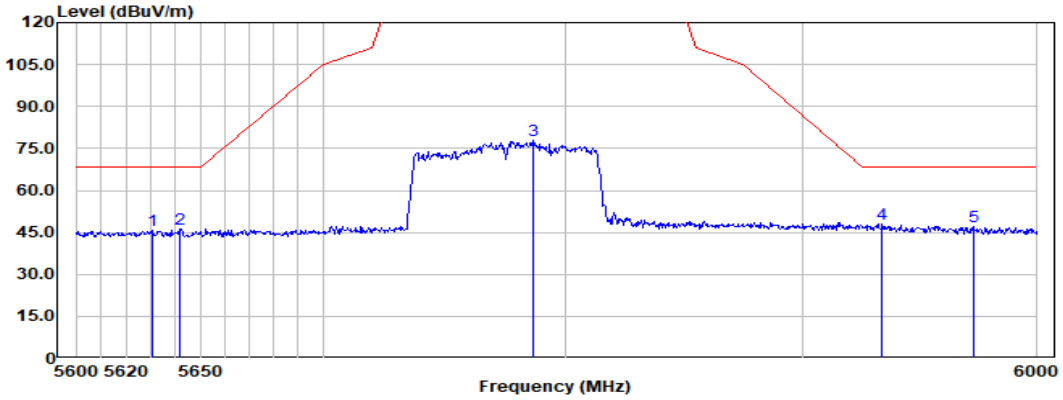
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5630.800 | 8.95 | 32.76 | 51.32 | 45.84 | 68.20 | -22.36 | Peak |
| 2 | 5641.600 | 8.95 | 32.80 | 51.54 | 46.11 | 68.20 | -22.09 | Peak |
| 3 | 5786.800 | 9.03 | 33.44 | 82.60 | 78.05 | 135.00 | -56.95 | Peak |
| 4 | 5933.600 | 9.11 | 33.56 | 52.51 | 47.92 | 68.20 | -20.28 | Peak |
| 5 | 5972.800 | 9.13 | 33.51 | 51.74 | 47.05 | 68.20 | -21.15 | Peak |

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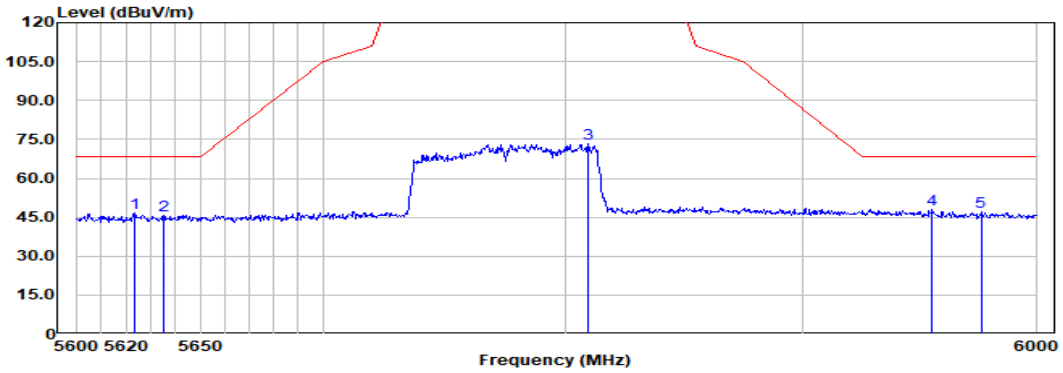
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low




| | Freq | Cable Loss | Ant Factor | Read Level | Level | FCC 5G | Over FCC 5G | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 | 5623.600 | 8.94 | 32.73 | 51.99 | 46.46 | 68.20 | -21.74 | Peak |
| 2 | 5635.200 | 8.95 | 32.77 | 51.40 | 45.94 | 68.20 | -22.26 | Peak |
| 3 | 5810.000 | 9.04 | 33.51 | 77.65 | 73.17 | 135.00 | -61.83 | Peak |
| 4 | 5955.200 | 9.12 | 33.53 | 52.73 | 48.08 | 68.20 | -20.12 | Peak |
| 5 | 5976.000 | 9.13 | 33.50 | 51.89 | 47.18 | 68.20 | -21.02 | Peak |

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## 7.10 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
Test Method: KDB 789033 D02 II G

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 |

### 7.10.1 E.U.T. Operation

Operating Environment:
Temperature: 24.6 °C Humidity: 45.7 % RH Atmospheric Pressure: 1010 mbar

### 7.10.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 01 | Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 03 | Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type |

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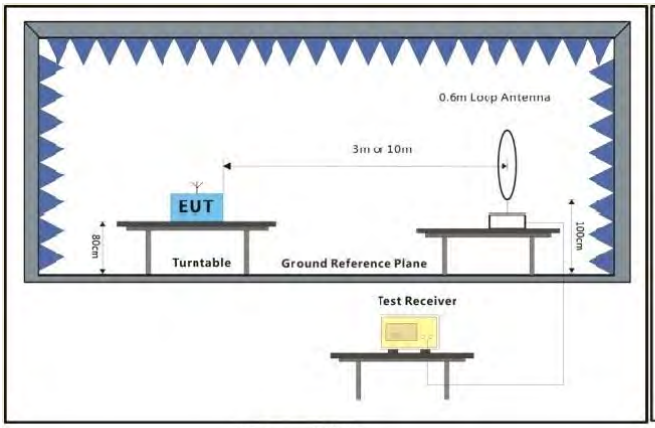
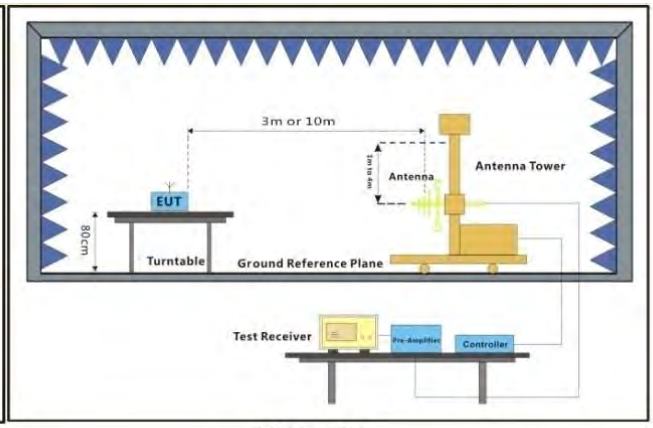
| | | |
|---|---|---|
| | | have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 04 | Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

### 7.10.3 Test Setup Diagram




Below 30MHz




30MHz-1GHz

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### 7.10.4 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 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. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.

3. 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.

4. 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.

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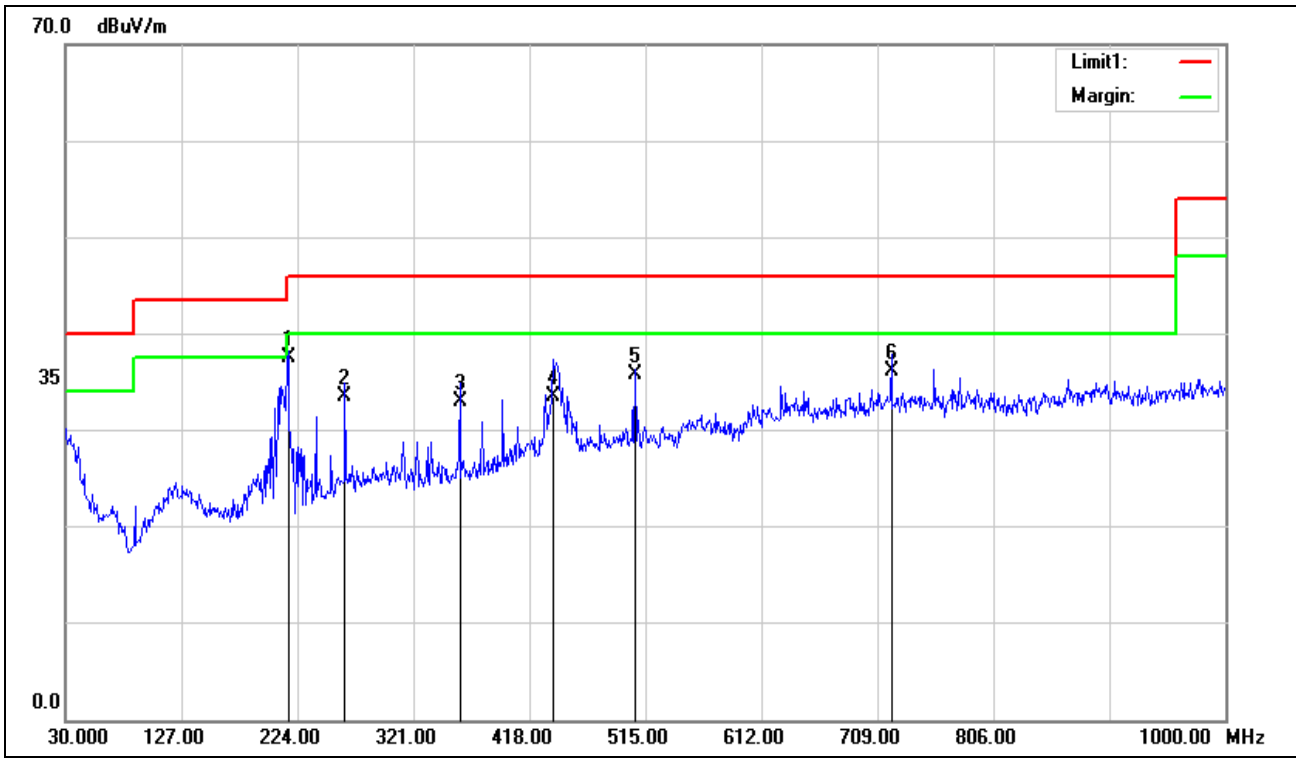
Test Mode: 01; Polarity: Horizontal




| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 216.2400 | 21.03 | 16.59 | 37.62 | 46.00 | -8.38 | QP |
| 2 | 263.7700 | 12.57 | 21.02 | 33.59 | 46.00 | -12.41 | QP |
| 3 | 359.8000 | 10.80 | 22.22 | 33.02 | 46.00 | -12.98 | QP |
| 4 | 437.4000 | 9.49 | 24.00 | 33.49 | 46.00 | -12.51 | QP |
| 5 | 506.2700 | 10.08 | 25.79 | 35.87 | 46.00 | -10.13 | QP |
| 6 | 720.6400 | 33.71 | 2.43 | 36.14 | 46.00 | -9.86 | QP |

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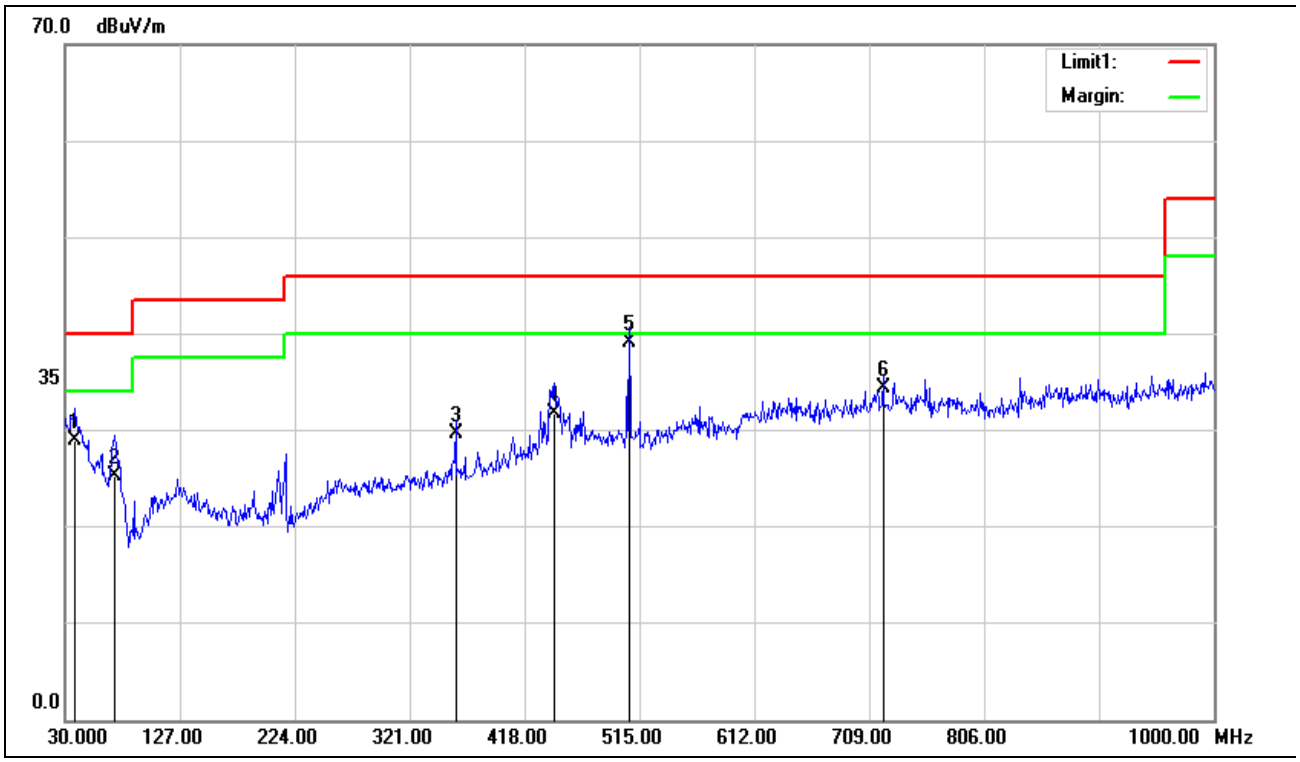
Test Mode: 01; Polarity: Vertical




| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 38.7300 | 6.16 | 22.80 | 28.96 | 40.00 | -11.04 | QP |
| 2 | 71.7100 | 9.67 | 15.66 | 25.33 | 40.00 | -14.67 | QP |
| 3 | 359.8000 | 7.49 | 22.22 | 29.71 | 46.00 | -16.29 | QP |
| 4 | 443.2200 | 7.71 | 24.11 | 31.82 | 46.00 | -14.18 | QP |
| 5 | 506.2700 | 13.33 | 25.79 | 39.12 | 46.00 | -6.88 | QP |
| 6 | 720.6400 | 32.03 | 2.43 | 34.46 | 46.00 | -11.54 | QP |

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## 7.11 99% Bandwidth

Test Requirement RSS-Gen Section 6.7
Test Method: ANSI C63.10 Section 6.9.3

### 7.11.1 E.U.T. Operation

Operating Environment:
Temperature: 24.6 °C Humidity: 45.9 % RH Atmospheric Pressure: 1010 mbar

### 7.11.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 01 | Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 03 | Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 04 | Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), 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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### 7.11.3 Measurement Procedure and Data

Please Refer to Appendix for Details

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# 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2206001007AT

# 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2206001007AT

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# 10 Appendix

Appendix B for KSCR2206001007AT-FCC-5G

Power level setting using in test:

| Channel | 802.11a | 802.11n(HT20) | 802.11ac(VHT20) |
|---|---|---|---|
| | Ant 1 | Ant 1 | Ant 1 |
| 36 | 0 | 0 | 0 |
| 40 | 0 | 0 | 0 |
| 48 | 0 | 0 | 0 |
| 52 | 0 | 0 | 0 |
| 60 | 0 | 0 | 0 |
| 64 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 |
| 116 | 0 | 0 | 0 |
| 140 | 0 | 0 | 0 |
| 149 | 0 | 0 | 0 |
| 157 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 |

| Channel | 802.11n(HT40) | 802.11ac(VHT40) |
|---|---|---|
| | Ant 1 | Ant 1 |
| 38 | 0 | 0 |
| 46 | 0 | 0 |
| 54 | 0 | 0 |

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| | | |
|---|---|---|
| 62 | 0 | 0 |
| 102 | 0 | 0 |
| 110 | 0 | 0 |
| 134 | 0 | 0 |
| 149 | 0 | 0 |
| 151 | 0 | 0 |
| 159 | 0 | 0 |

| Channel | 802.11ac(VHT80) |
|---|---|
| | Ant 1 |
| 42 | 0 |
| 58 | 0 |
| 106 | 0 |
| 155 | 0 |

# 1. Duty Cycle

## 1.1 Ant1

### 1.1.1 Test Result

| Ant1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11a | SISO | 5180 | 2.065 | 2.086 | 98.99 | 0.04 | 0.03 |
| | | 5200 | 2.065 | 2.086 | 98.99 | 0.04 | 0.03 |
| | | 5240 | 2.065 | 2.085 | 99.04 | 0.04 | 0.03 |
| | | 5260 | 2.064 | 2.085 | 98.99 | 0.04 | 0.00 |
| | | 5300 | 2.065 | 2.086 | 98.99 | 0.04 | 0.07 |
| | | 5320 | 2.065 | 2.085 | 99.04 | 0.04 | 0.04 |
| | | 5500 | 2.065 | 2.085 | 99.04 | 0.04 | 0.04 |
| | | 5580 | 2.065 | 2.085 | 99.04 | 0.04 | 0.07 |
| | | 5700 | 2.065 | 2.086 | 98.99 | 0.04 | 0.07 |
| | | 5745 | 2.066 | 2.086 | 99.04 | 0.04 | 0.07 |
| | | 5785 | 2.065 | 2.085 | 99.04 | 0.04 | 0.04 |
| | | 5825 | 2.064 | 2.085 | 98.99 | 0.04 | 0.07 |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 802.11n (HT20) | SISO | 5180 | 1.337 | 1.388 | 96.33 | 0.16 | 0.00 |
| | | 5200 | 1.337 | 1.387 | 96.40 | 0.16 | 0.03 |
| | | 5240 | 1.337 | 1.387 | 96.40 | 0.16 | 0.06 |
| | | 5260 | 1.337 | 1.387 | 96.40 | 0.16 | 0.03 |
| | | 5300 | 1.337 | 1.387 | 96.40 | 0.16 | 0.03 |
| | | 5320 | 1.337 | 1.387 | 96.40 | 0.16 | 0.00 |
| | | 5500 | 1.337 | 1.387 | 96.40 | 0.16 | 0.07 |
| | | 5580 | 1.337 | 1.388 | 96.33 | 0.16 | 0.03 |
| | | 5700 | 1.337 | 1.388 | 96.33 | 0.16 | 0.06 |
| | | 5745 | 1.336 | 1.388 | 96.25 | 0.17 | 0.03 |
| | | 5785 | 1.338 | 1.389 | 96.33 | 0.16 | 0.10 |
| | | 5825 | 1.337 | 1.388 | 96.33 | 0.16 | 0.07 |
| 802.11n (HT40) | SISO | 5190 | 0.946 | 1.045 | 90.53 | 0.43 | 0.07 |
| | | 5230 | 0.944 | 1.045 | 90.33 | 0.44 | 0.04 |
| | | 5270 | 0.944 | 1.045 | 90.33 | 0.44 | 0.04 |
| | | 5310 | 0.943 | 1.045 | 90.24 | 0.45 | 0.04 |
| | | 5510 | 0.944 | 1.046 | 90.25 | 0.45 | 0.04 |
| | | 5550 | 0.947 | 1.046 | 90.54 | 0.43 | 0.04 |
| | | 5670 | 0.943 | 1.045 | 90.24 | 0.45 | 0.04 |
| | | 5755 | 0.944 | 1.045 | 90.33 | 0.44 | 0.04 |
| | | 5795 | 0.944 | 1.046 | 90.25 | 0.45 | 0.04 |
| 802.11ac (VHT20) | SISO | 5180 | 1.932 | 2.033 | 95.03 | 0.22 | 0.03 |
| | | 5200 | 1.933 | 2.034 | 95.03 | 0.22 | 0.00 |
| | | 5240 | 1.932 | 2.033 | 95.03 | 0.22 | 0.03 |
| | | 5260 | 1.933 | 2.034 | 95.03 | 0.22 | 0.00 |
| | | 5300 | 1.933 | 2.033 | 95.08 | 0.22 | 0.00 |
| | | 5320 | 1.933 | 2.034 | 95.03 | 0.22 | 0.07 |
| | | 5500 | 1.933 | 2.033 | 95.08 | 0.22 | 0.00 |
| | | 5580 | 1.933 | 2.033 | 95.08 | 0.22 | 0.03 |
| | | 5700 | 1.933 | 2.033 | 95.08 | 0.22 | 0.03 |
| | | 5745 | 1.933 | 2.033 | 95.08 | 0.22 | 0.03 |
| | | 5785 | 1.933 | 2.034 | 95.03 | 0.22 | 0.03 |
| | | 5825 | 1.933 | 2.033 | 95.08 | 0.22 | 0.03 |
| 802.11ac (VHT40) | SISO | 5190 | 0.952 | 1.053 | 90.41 | 0.44 | 0.03 |
| | | 5230 | 0.952 | 1.053 | 90.41 | 0.44 | 0.03 |
| | | 5270 | 0.952 | 1.053 | 90.41 | 0.44 | 0.03 |
| | | 5310 | 0.952 | 1.054 | 90.32 | 0.44 | 0.03 |
| | | 5510 | 0.952 | 1.053 | 90.41 | 0.44 | 0.03 |
| | | 5550 | 0.952 | 1.053 | 90.41 | 0.44 | 0.03 |
| | | 5670 | 0.952 | 1.053 | 90.41 | 0.44 | 0.03 |
| | | 5755 | 0.952 | 1.054 | 90.32 | 0.44 | 0.07 |
| | | 5795 | 0.952 | 1.054 | 90.32 | 0.44 | 0.03 |
| 802.11ac (VHT80) | SISO | 5210 | 0.466 | 0.561 | 83.07 | 0.81 | 0.07 |
| | | 5290 | 0.466 | 0.562 | 82.92 | 0.81 | 0.04 |
| | | 5530 | 0.460 | 0.561 | 82.00 | 0.86 | 0.06 |
| | | 5610 | 0.463 | 0.561 | 82.53 | 0.83 | 0.04 |
| | | 5775 | 0.466 | 0.562 | 82.92 | 0.81 | 0.10 |

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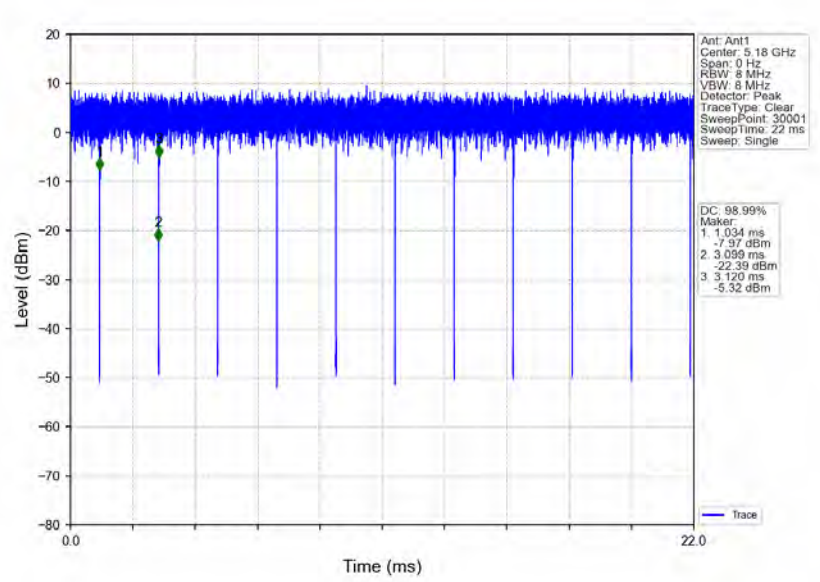
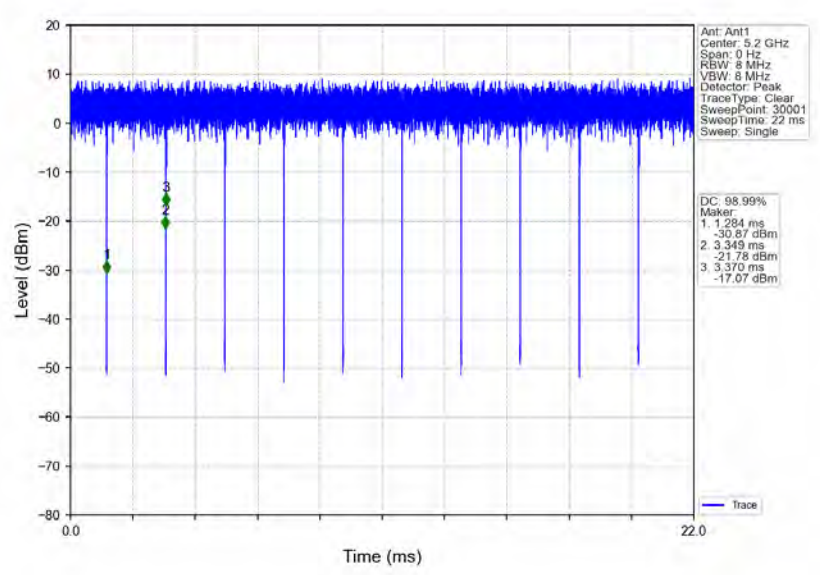
## 1.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV




802.11a_MCH_5200MHz_Ant1_NTNV

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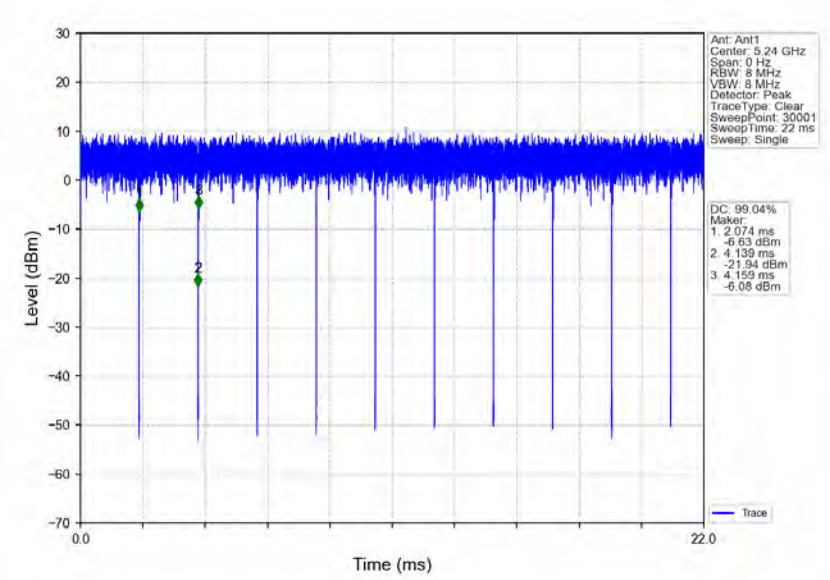
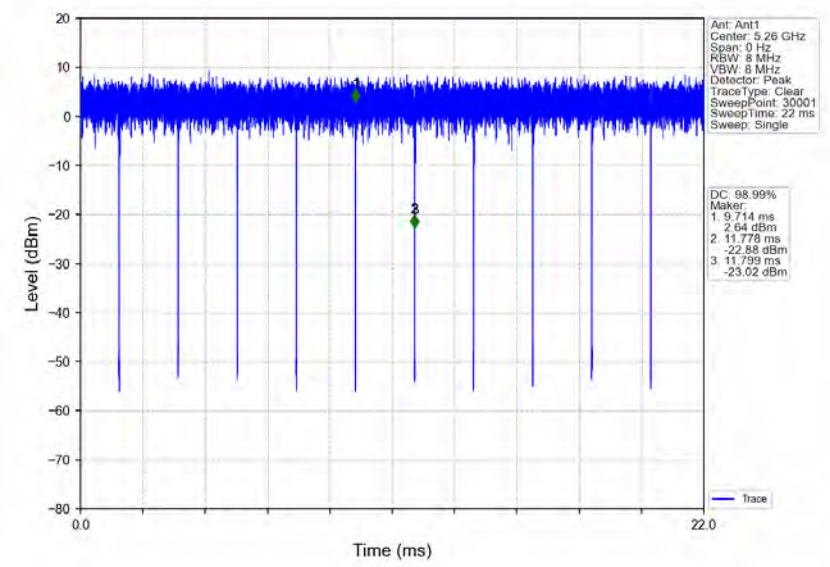
802.11a_HCH_5240MHz_Ant1_NTNV




802.11a_LCH_5260MHz_Ant1_NTNV

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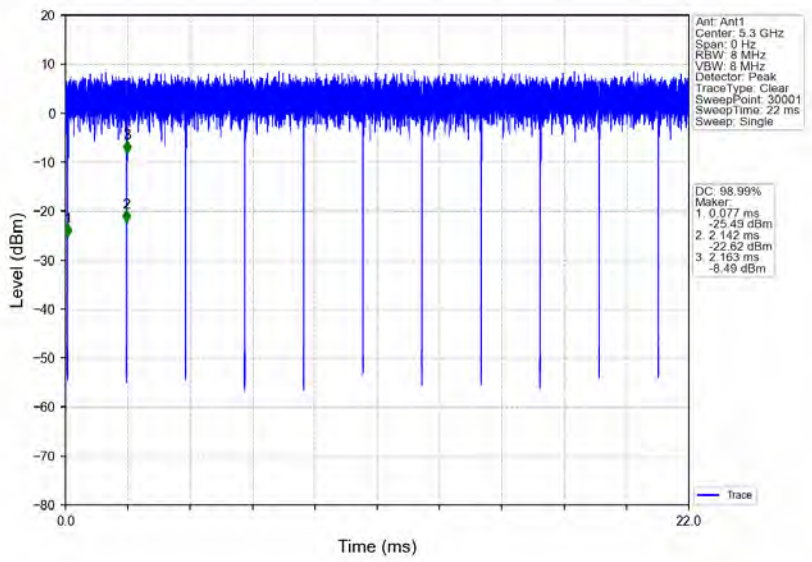
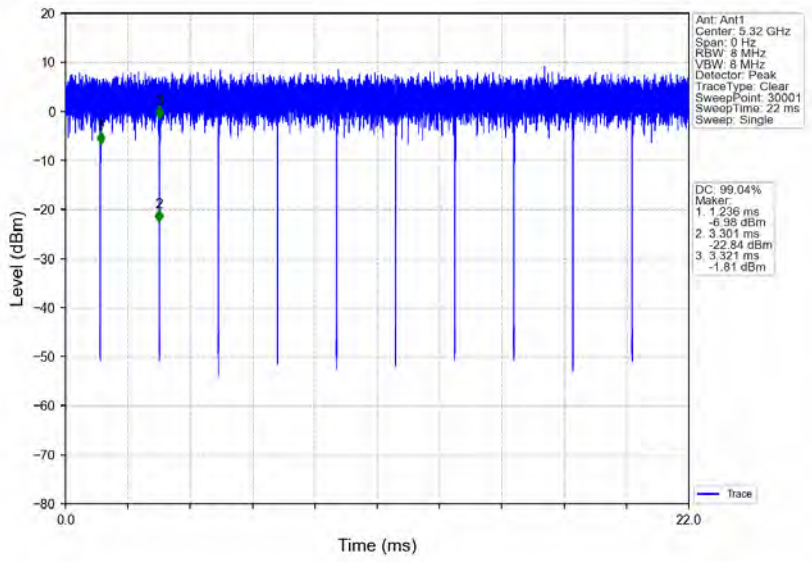
802.11a_MCH_5300MHz_Ant1_NTNV




802.11a_HCH_5320MHz_Ant1_NTNV

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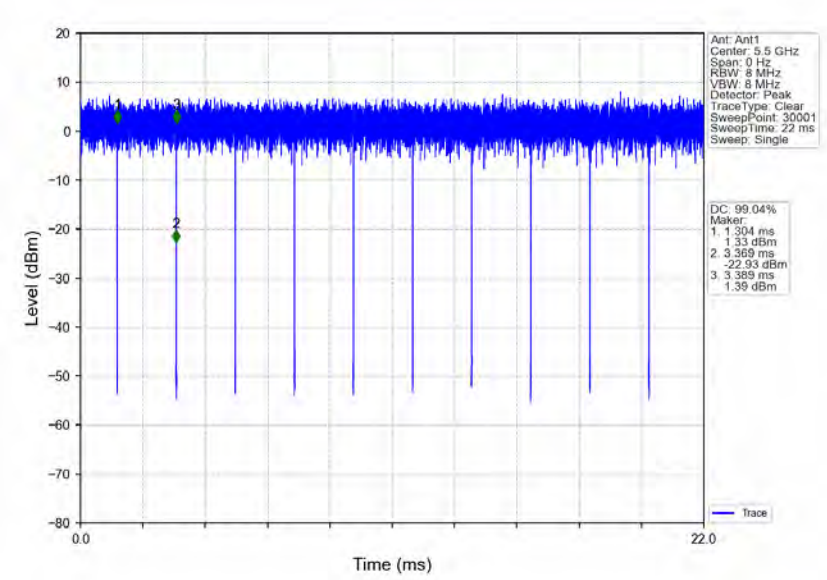
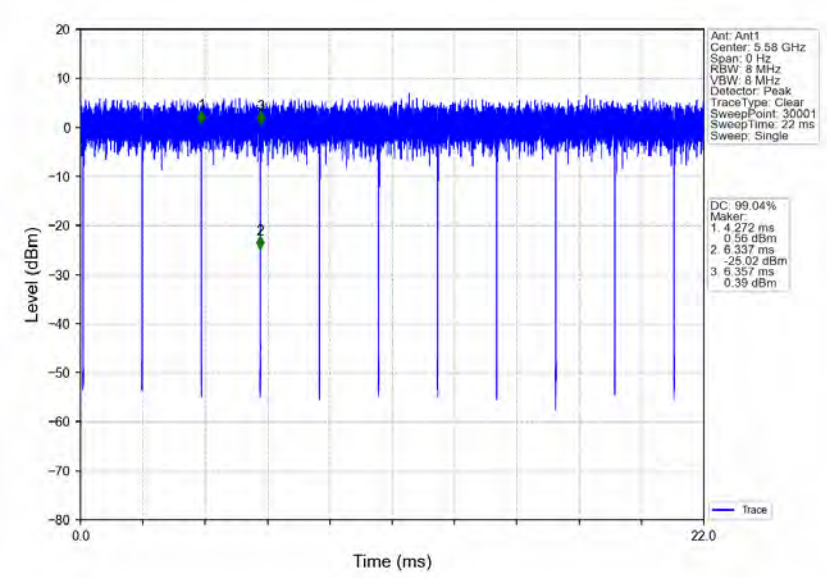
802.11a_LCH_5500MHz_Ant1_NTNV




802.11a_MCH_5580MHz_Ant1_NTNV

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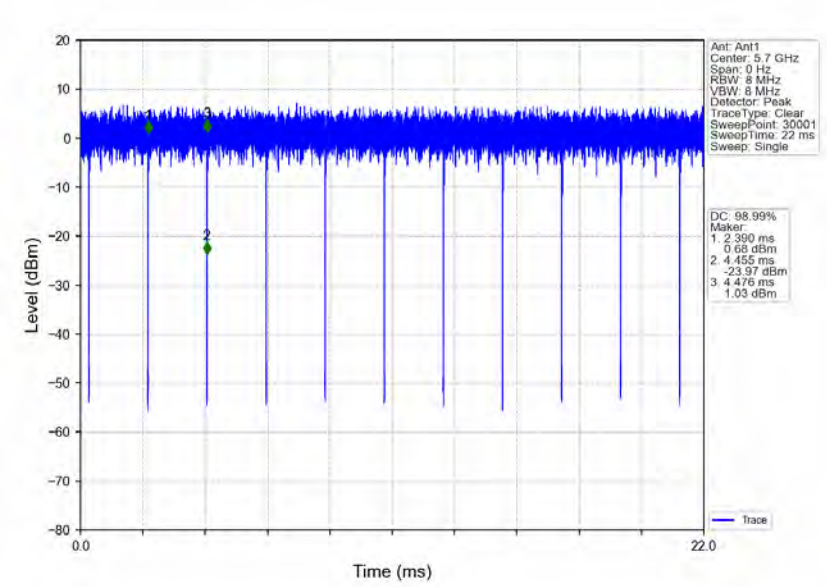
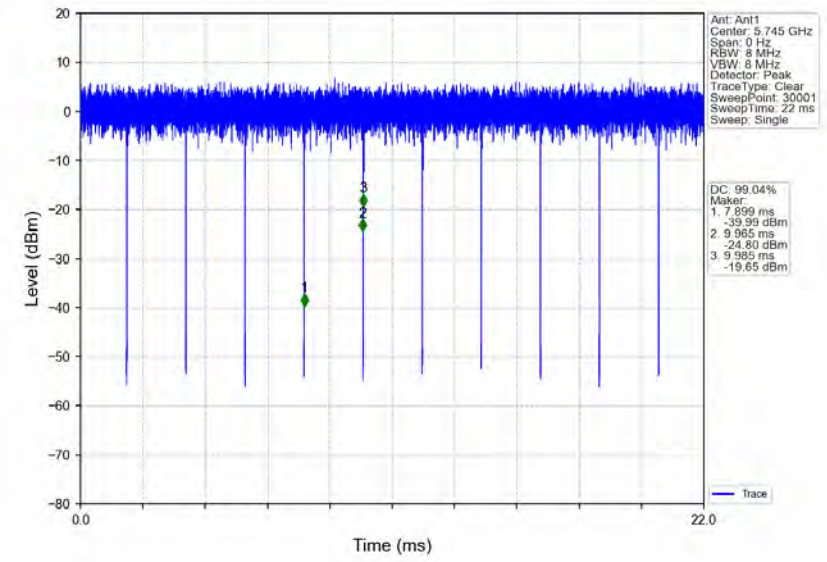
802.11a_HCH_5700MHz_Ant1_NTNV




802.11a_LCH_5745MHz_Ant1_NTNV

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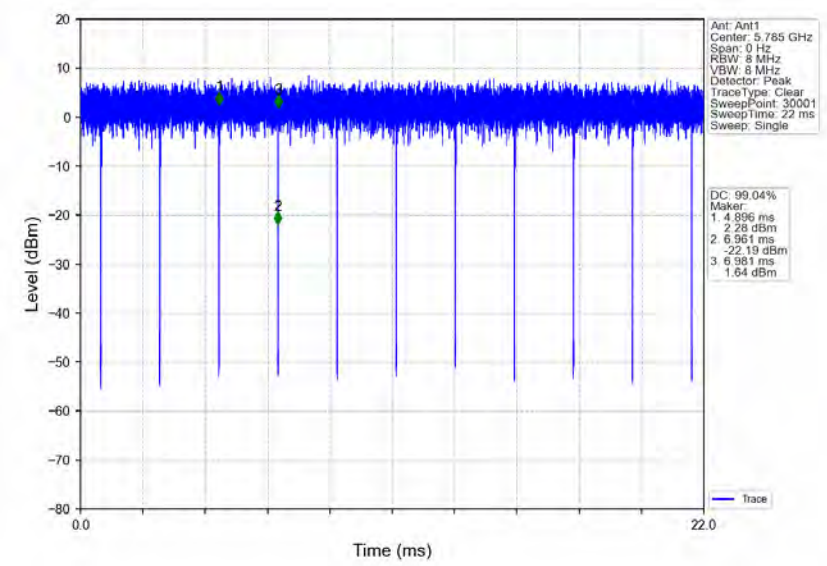
802.11a_MCH_5785MHz_Ant1_NTNV

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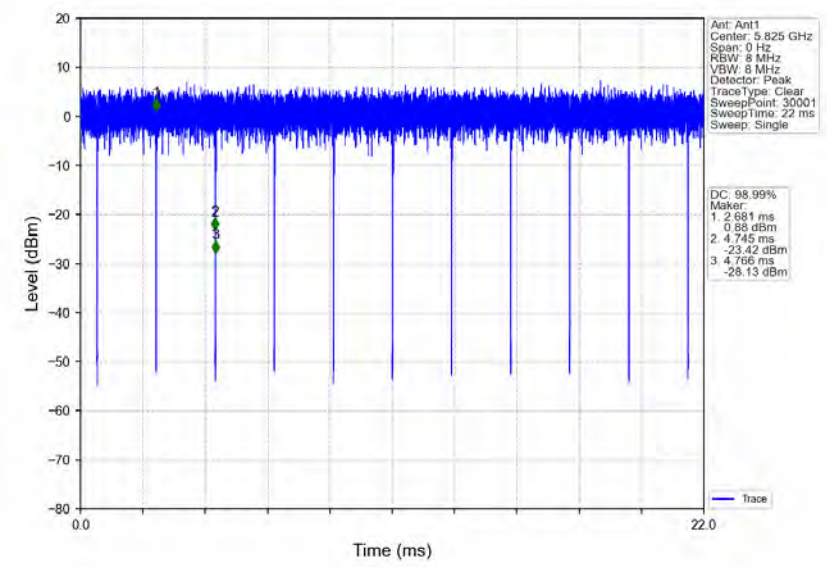


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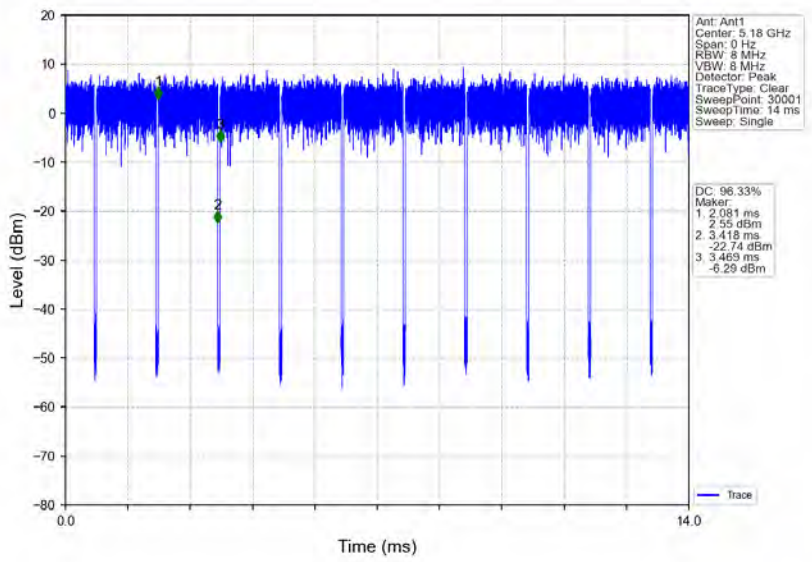
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

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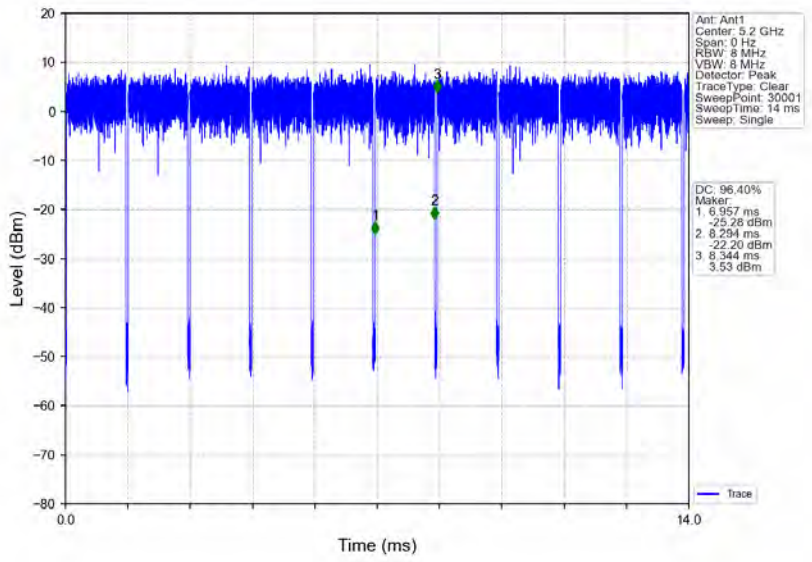


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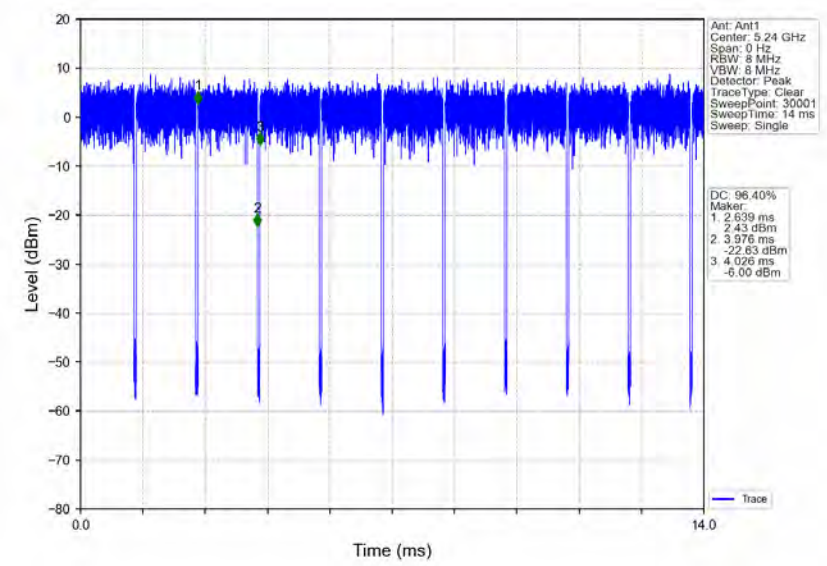
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

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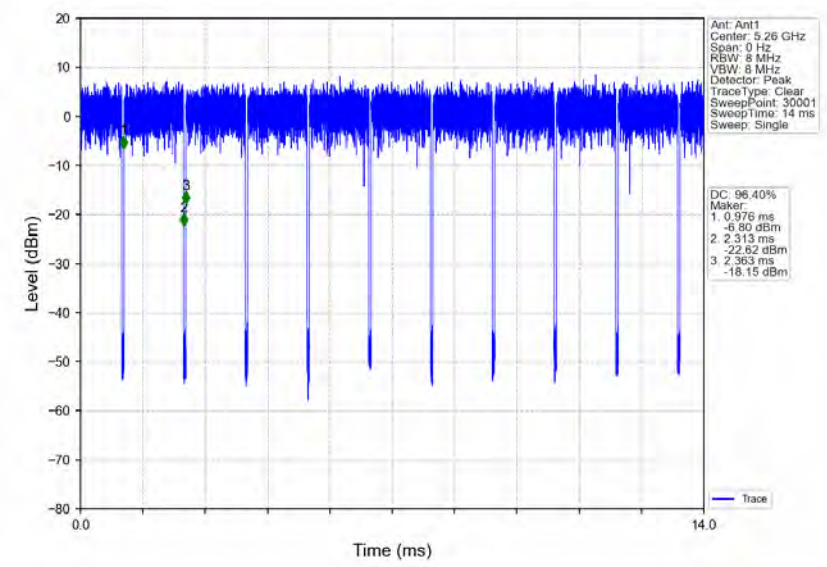


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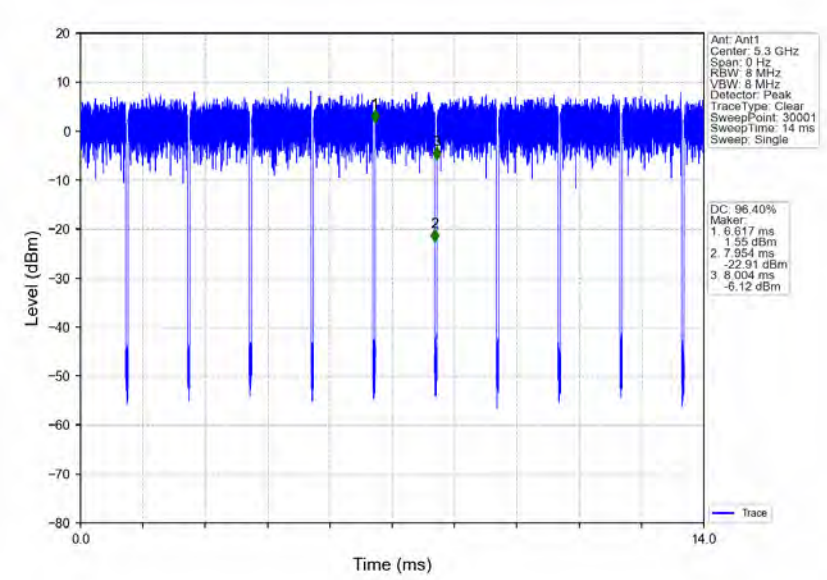
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV

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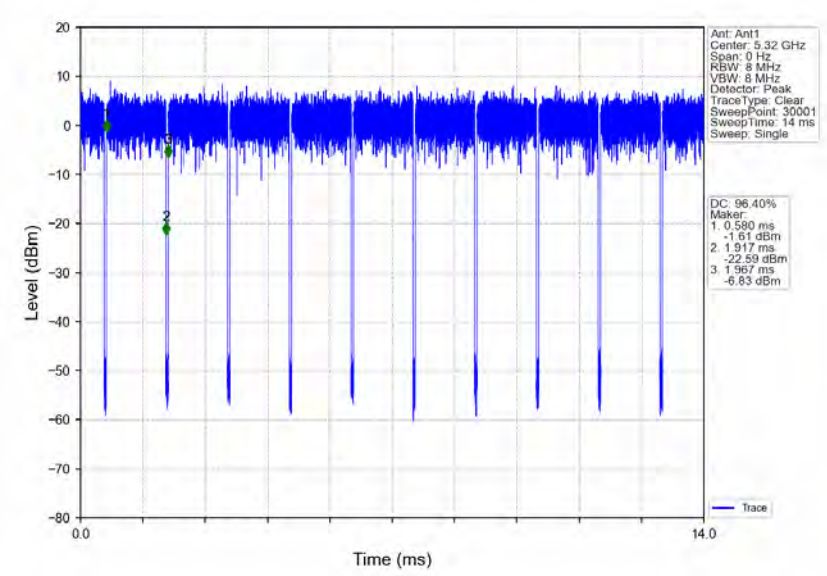


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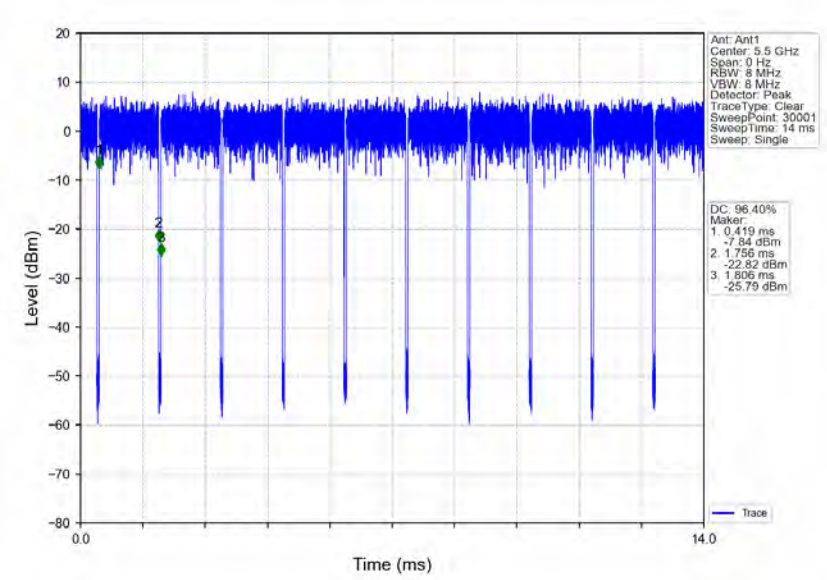
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV

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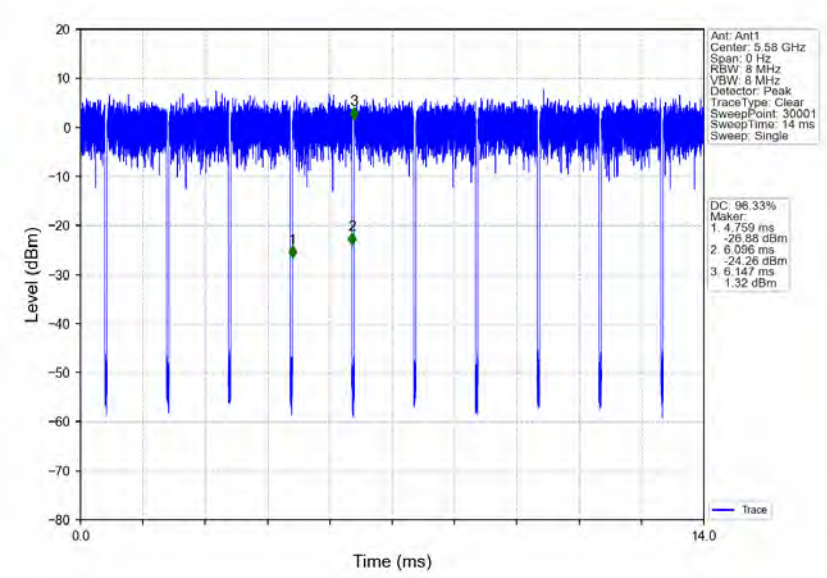


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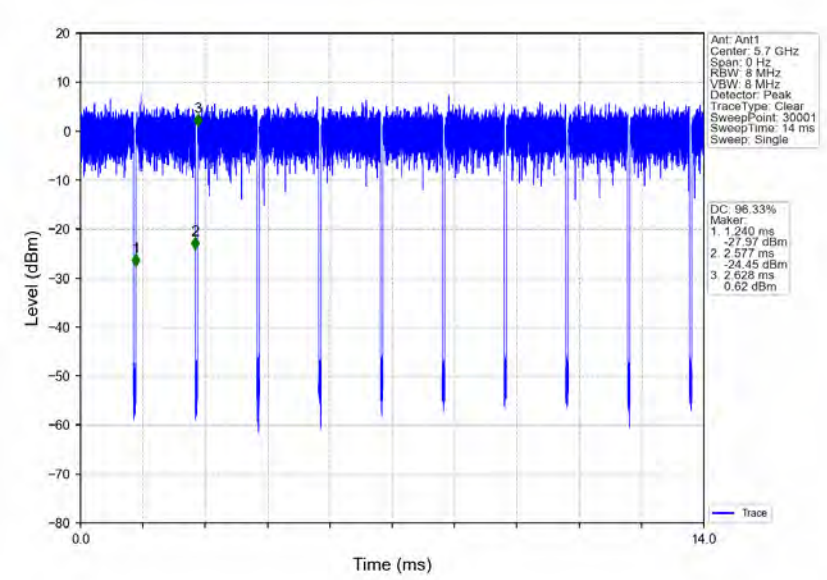


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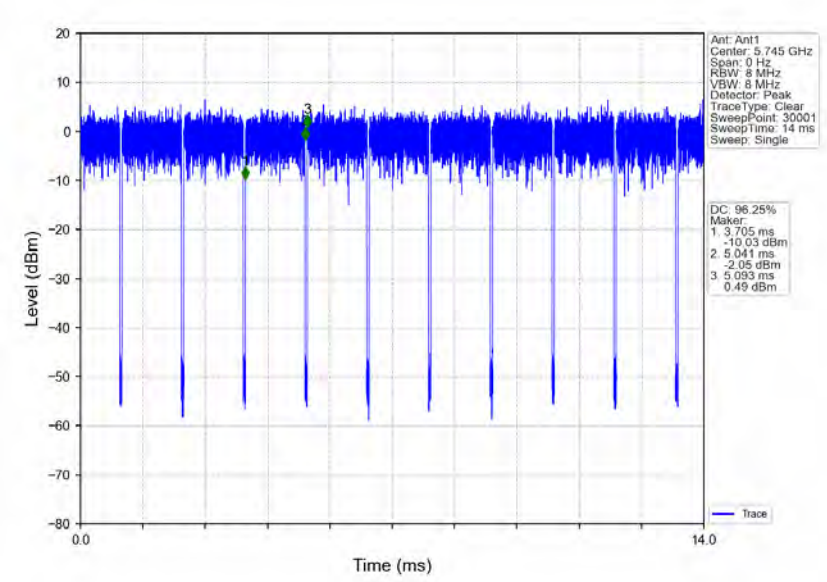


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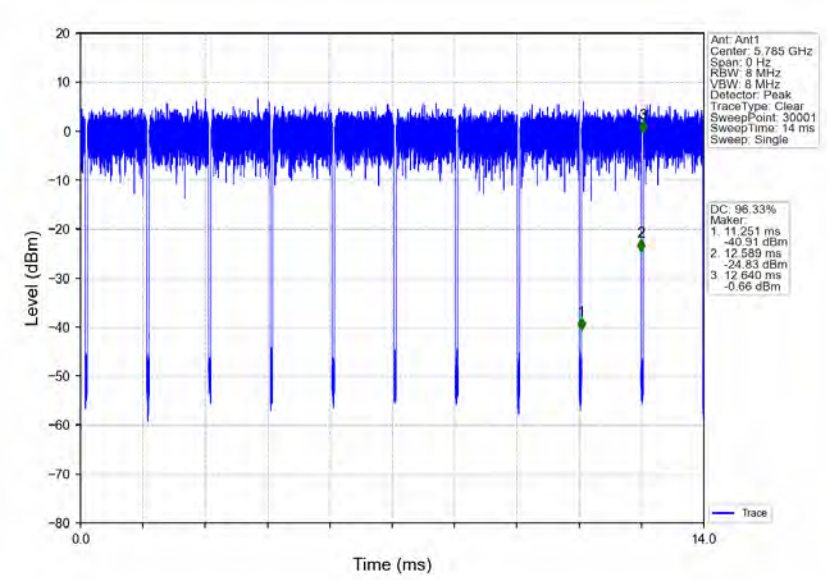
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

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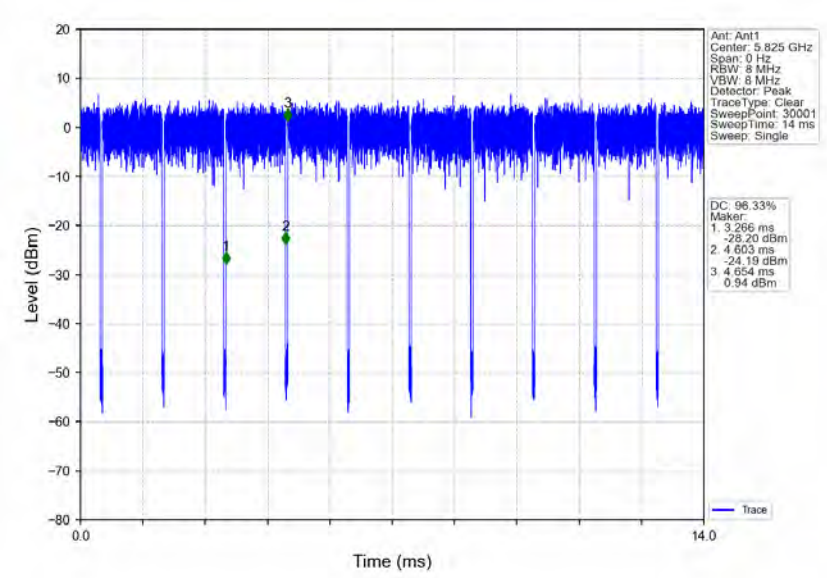


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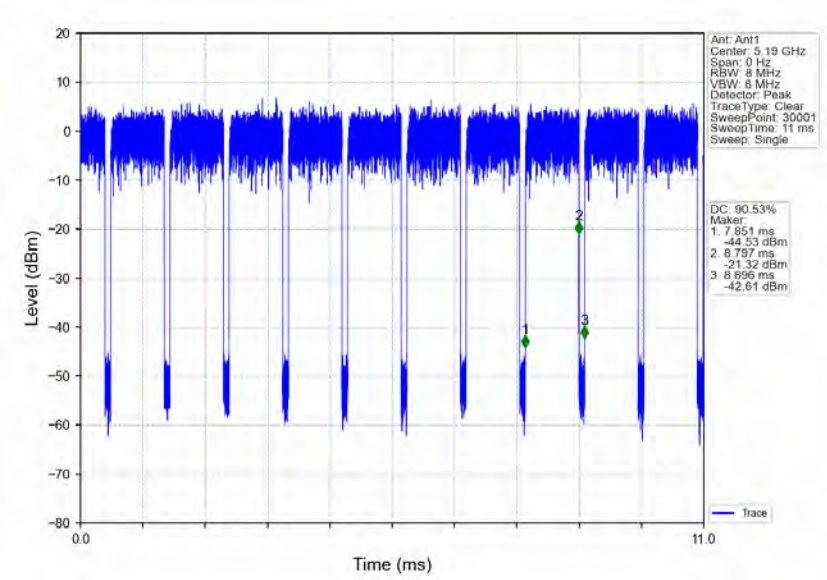
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

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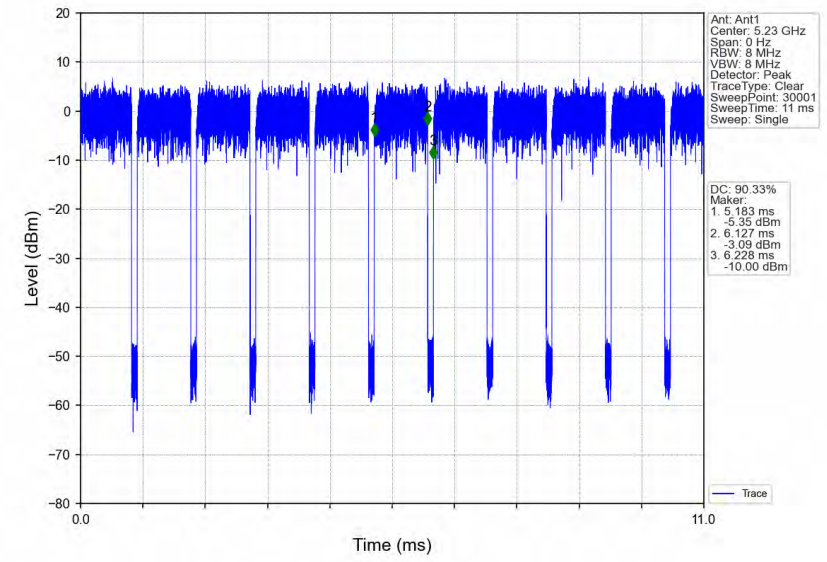


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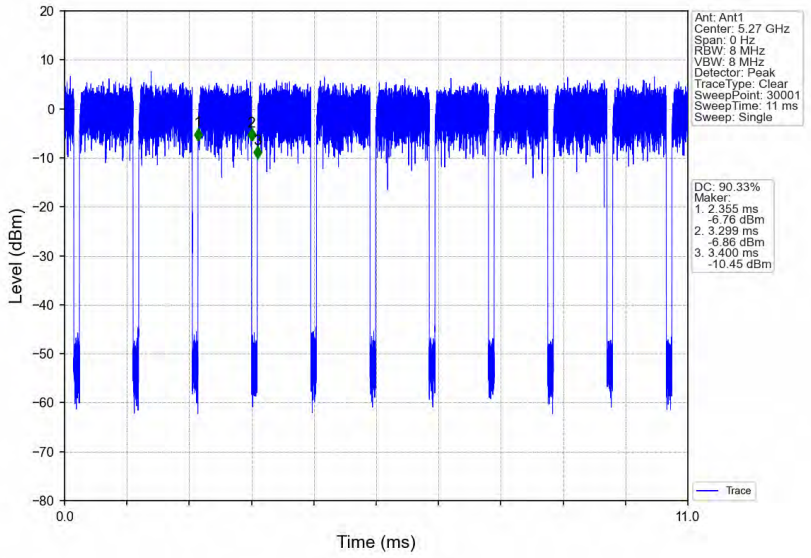


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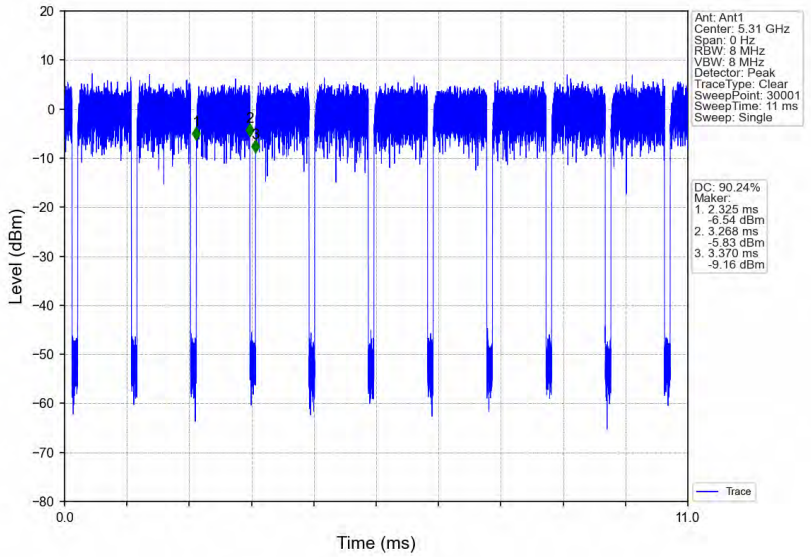


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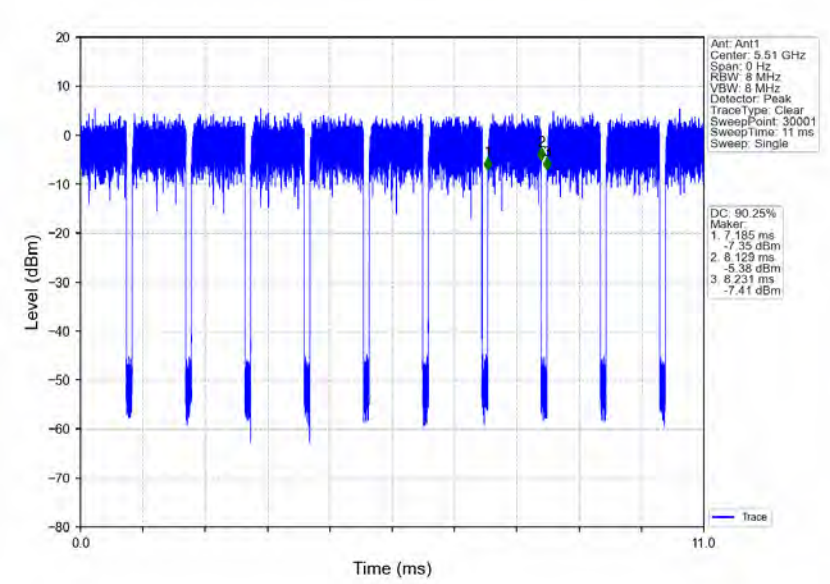
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV

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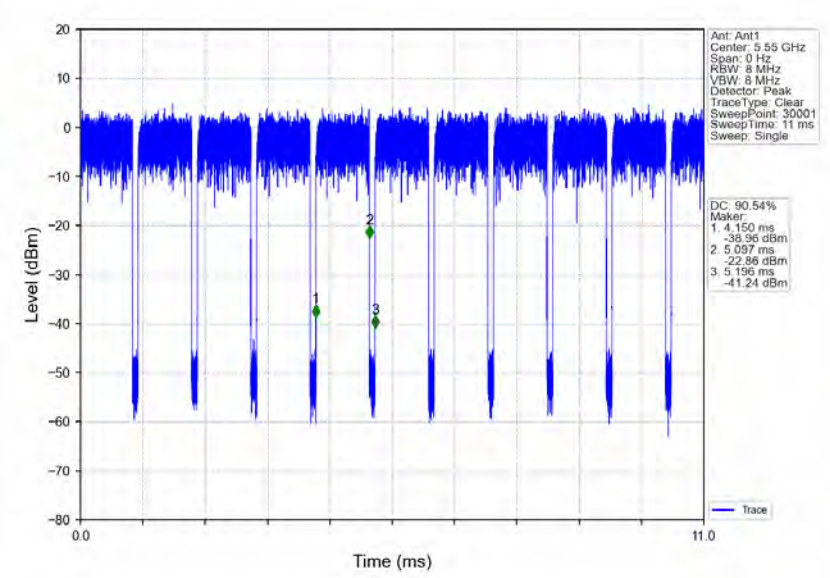


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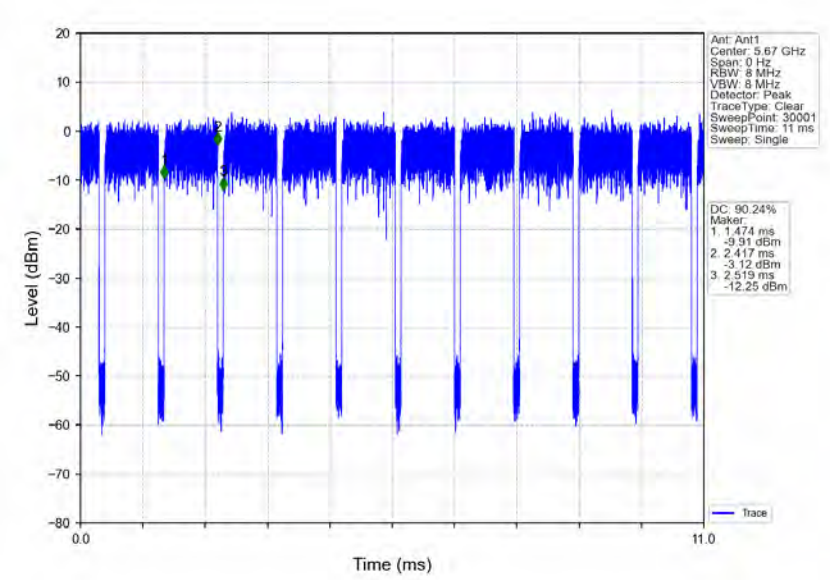
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV

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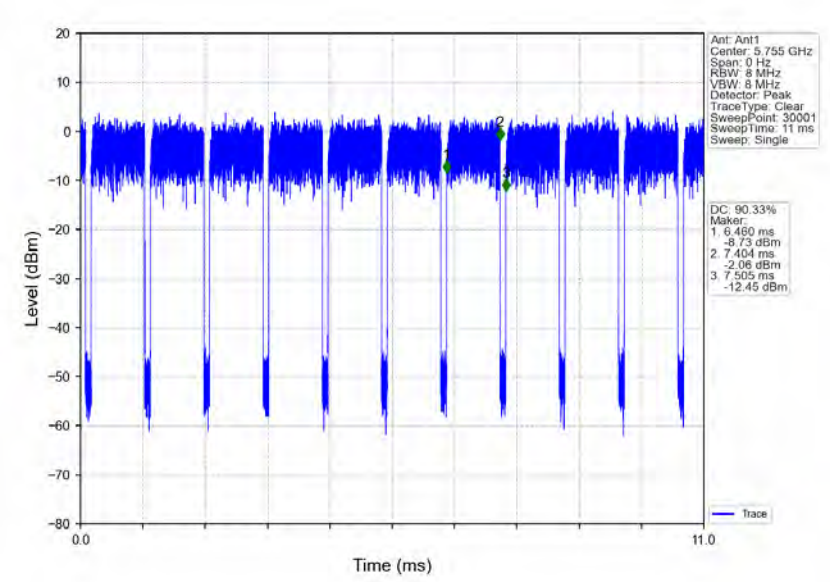


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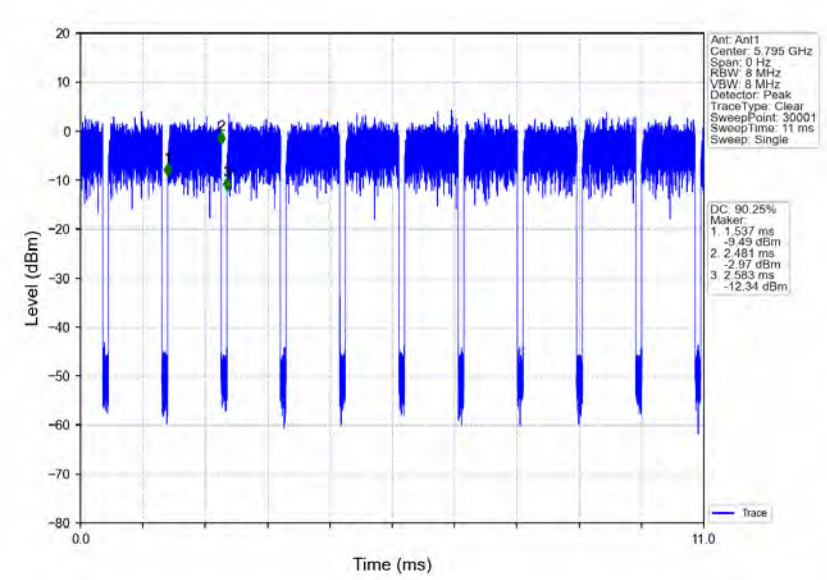
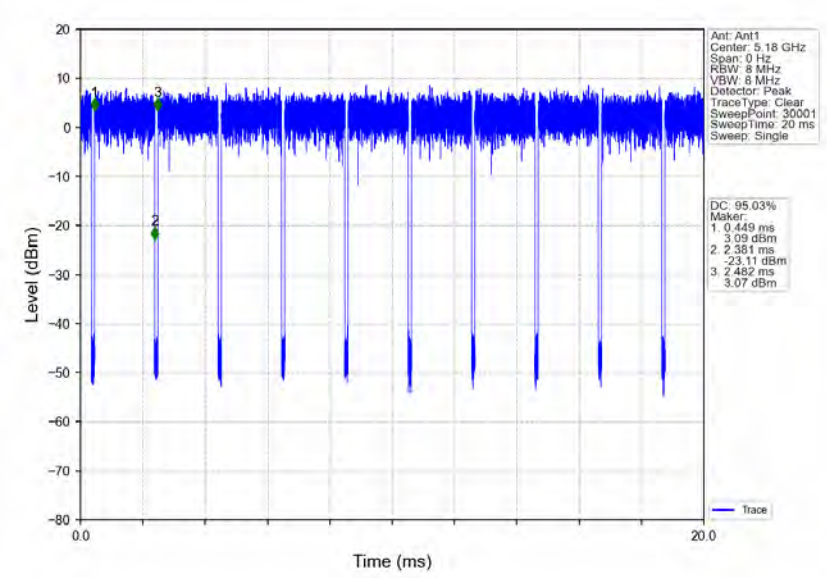
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV




802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

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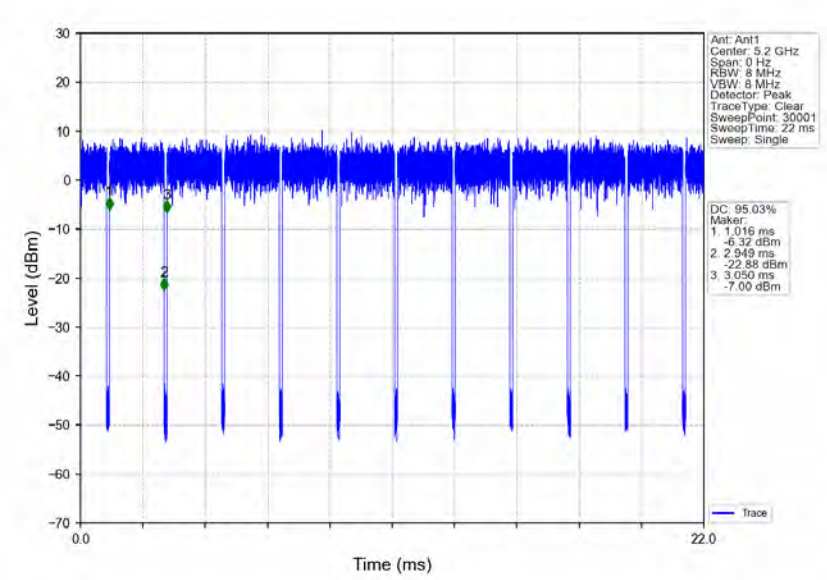
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

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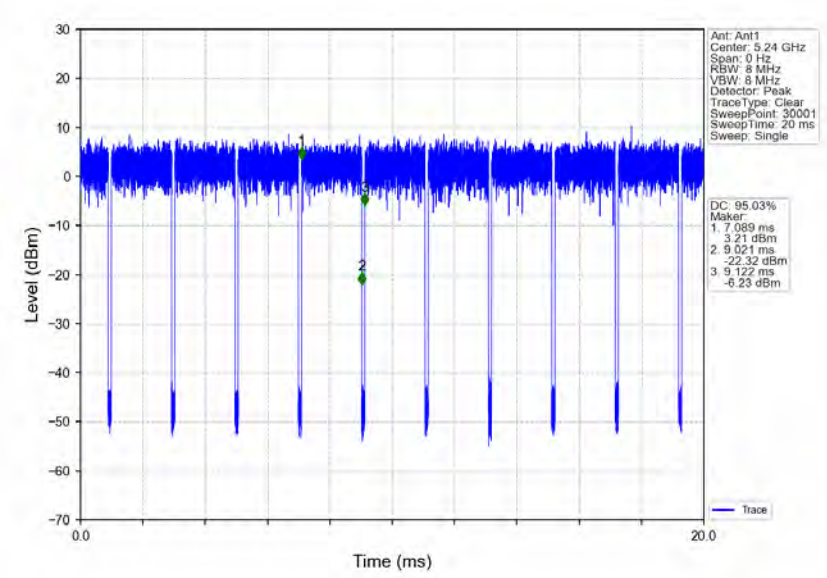


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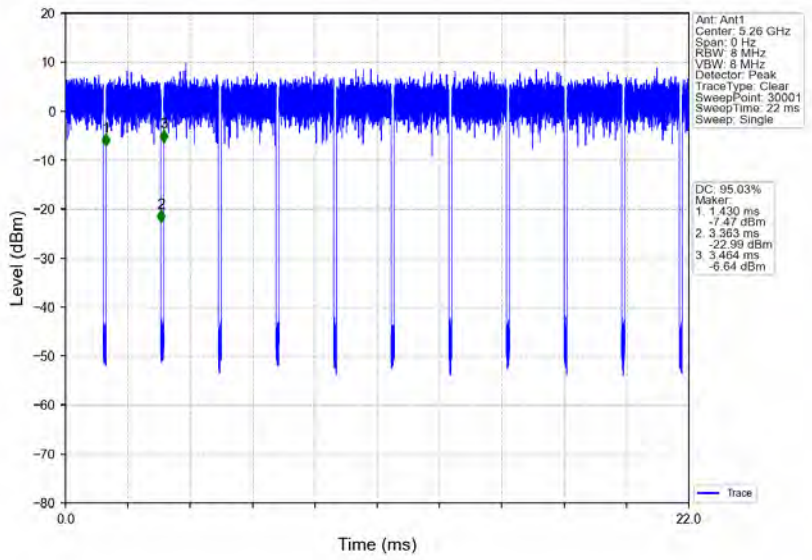
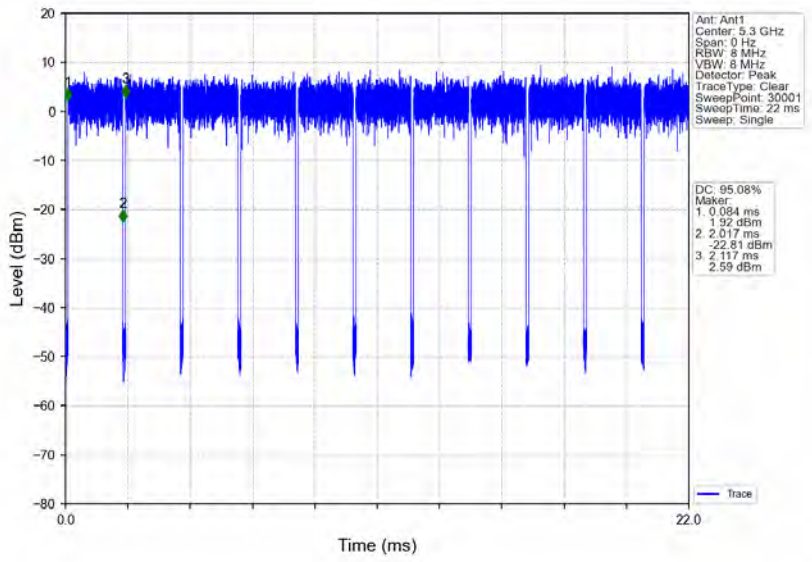
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV




802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV

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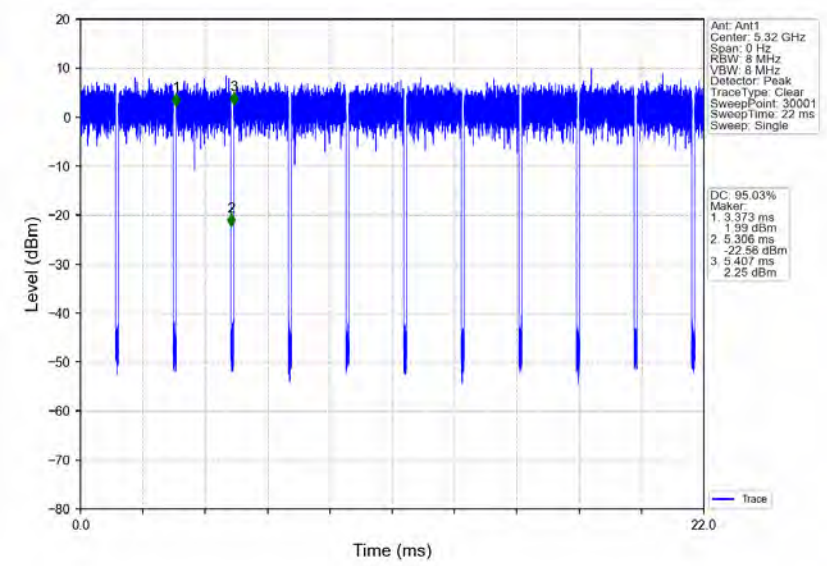
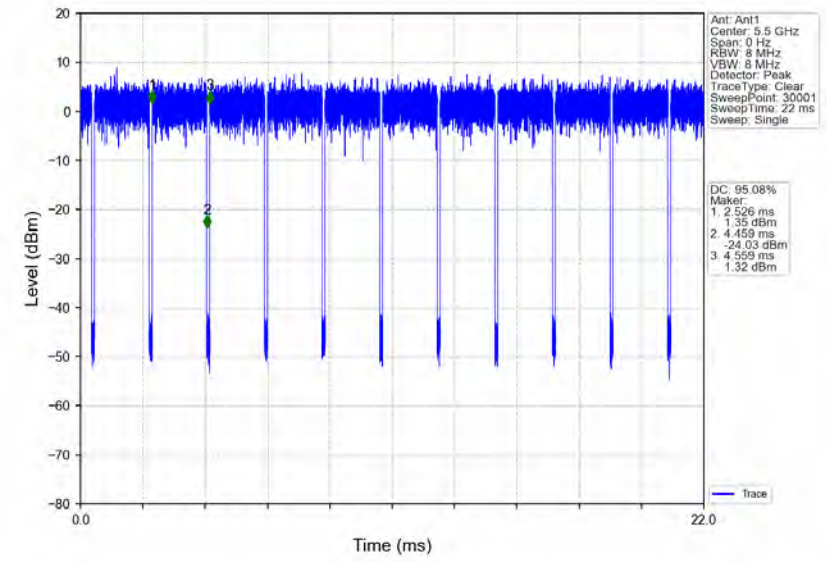



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV

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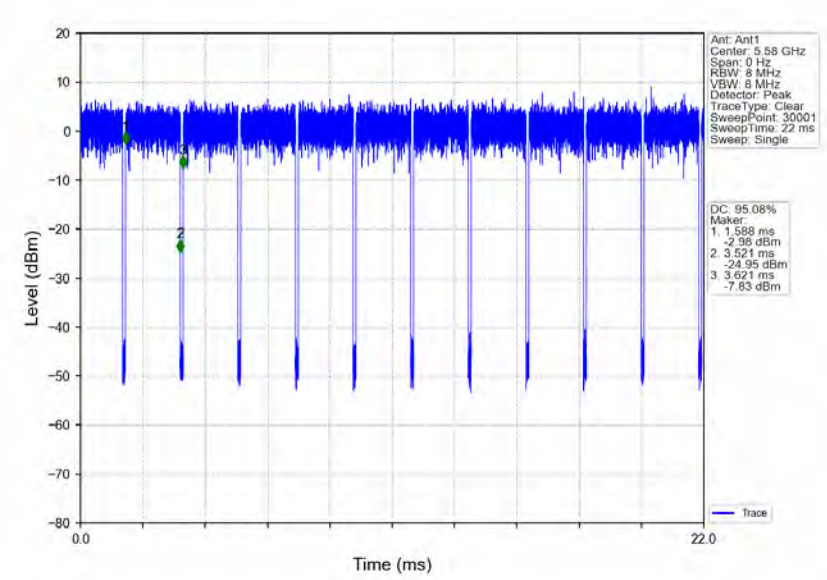
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV

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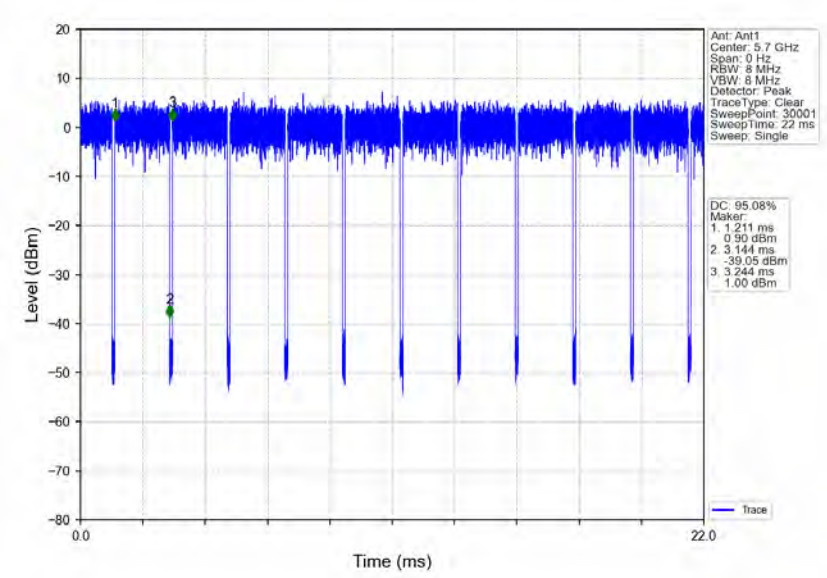


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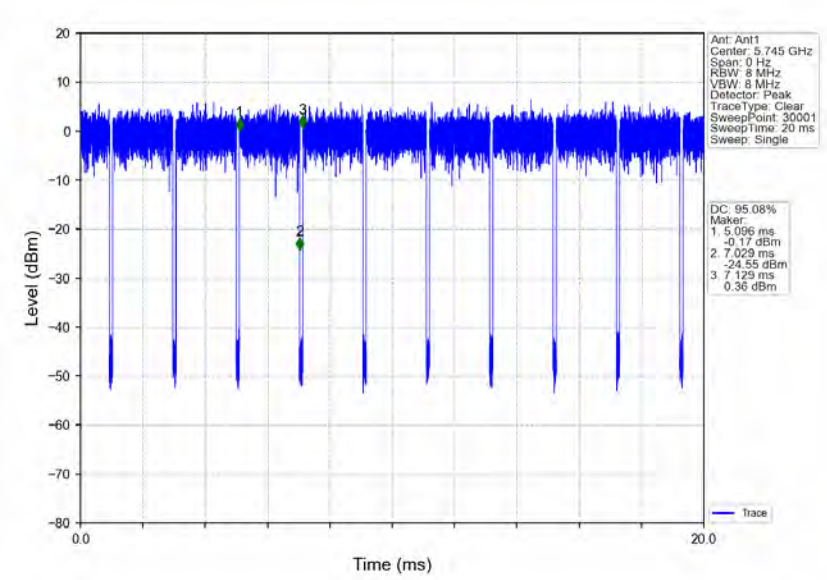
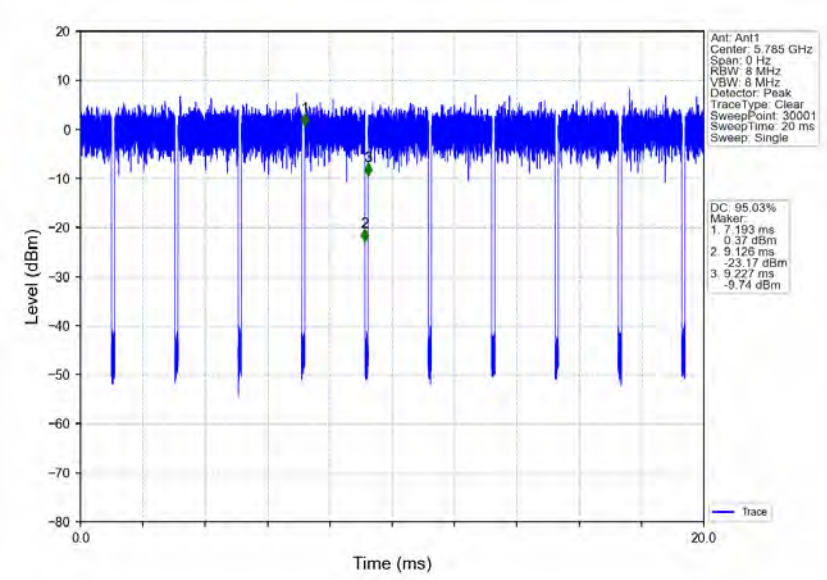
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV




802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

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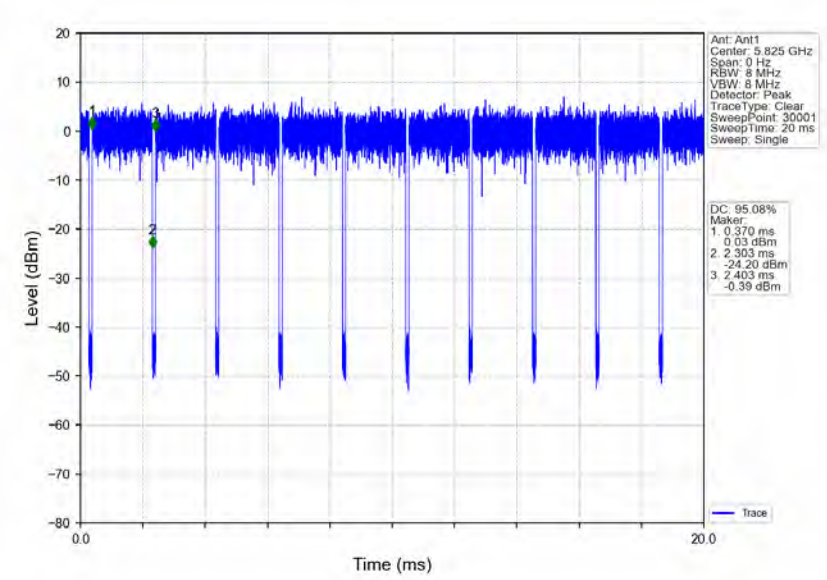
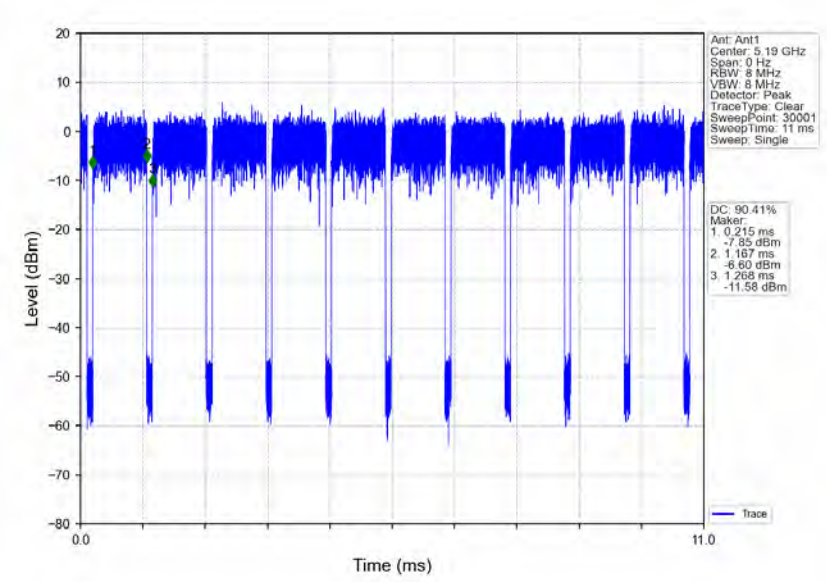
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV




802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

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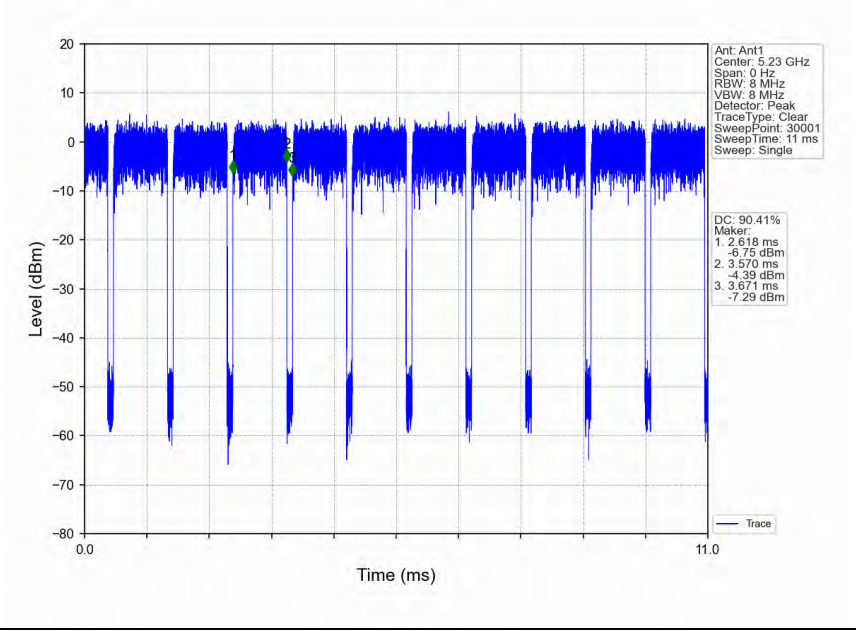
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

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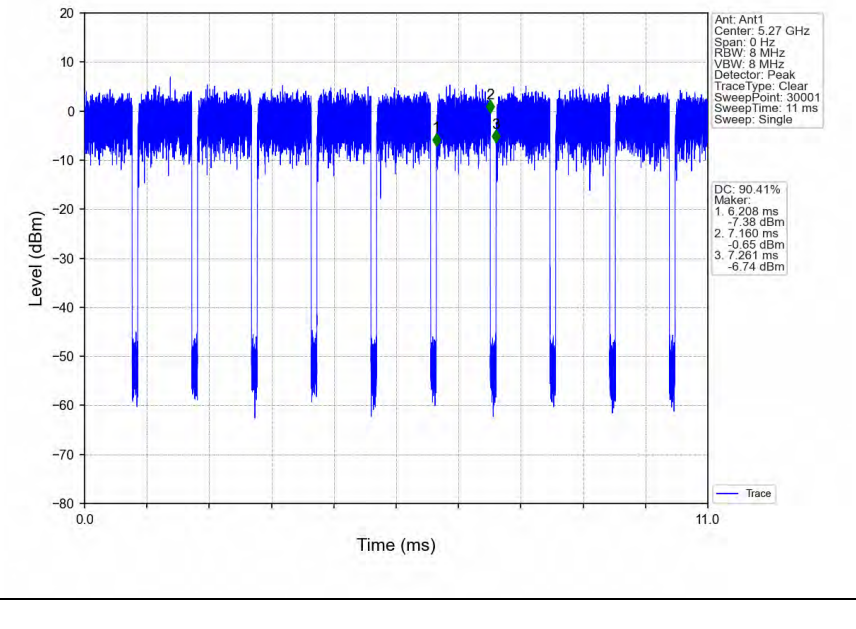


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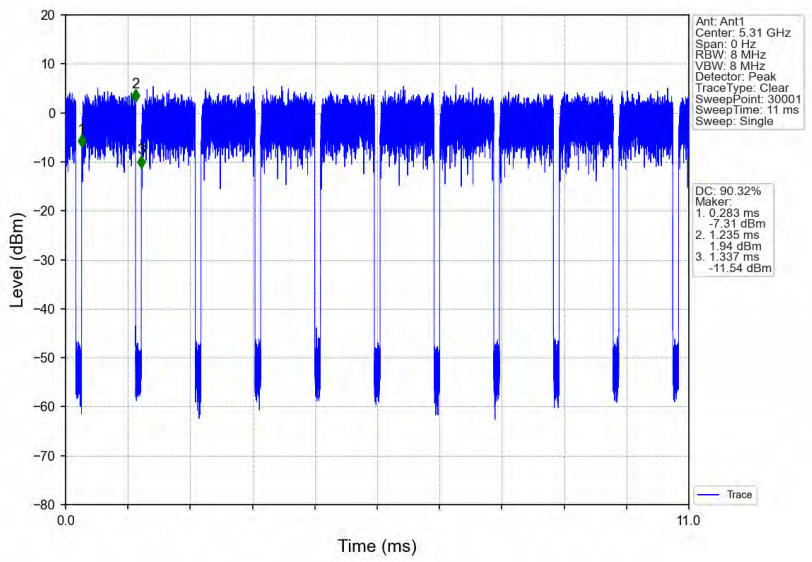
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV

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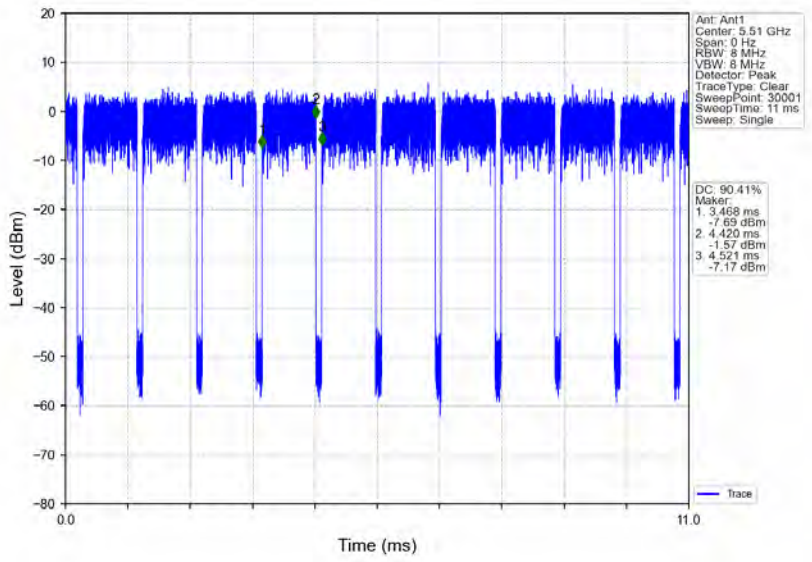


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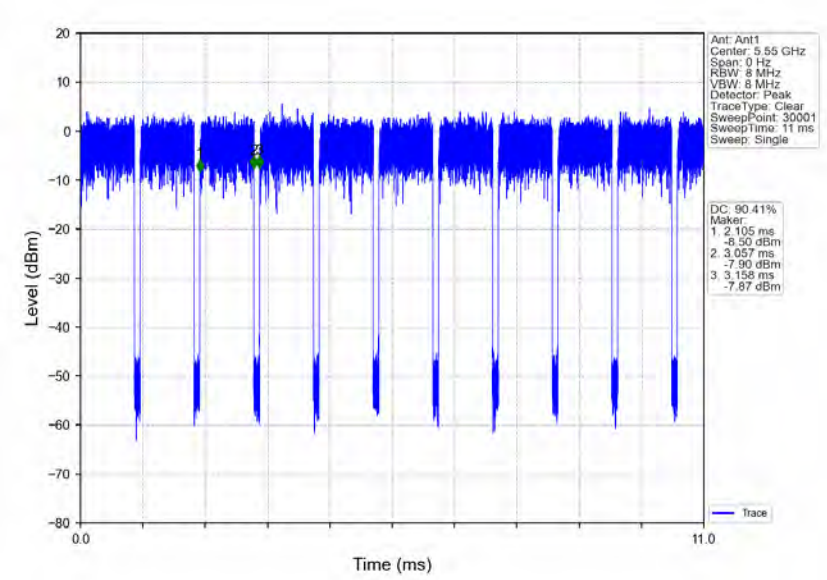
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV

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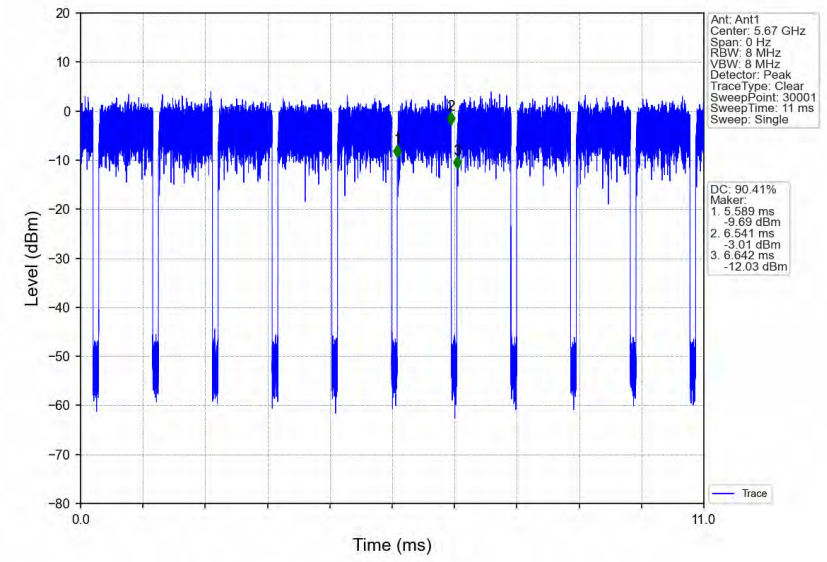


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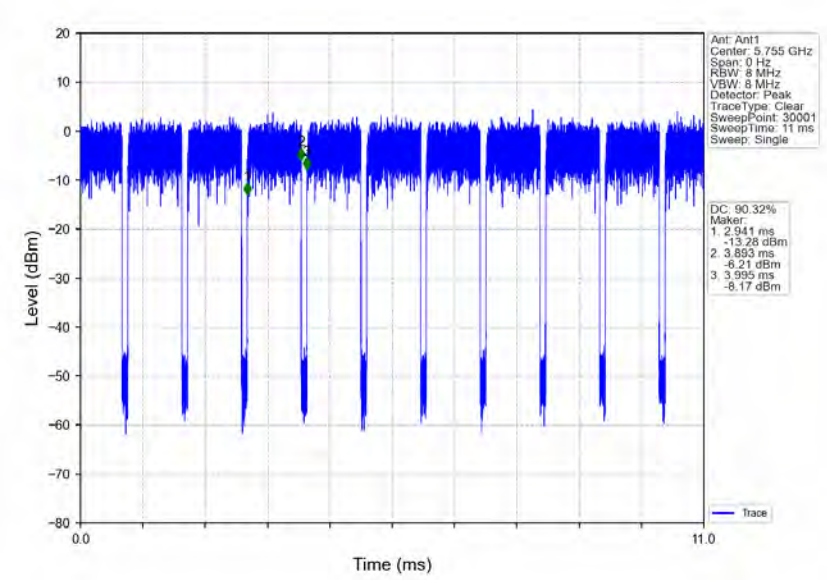
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

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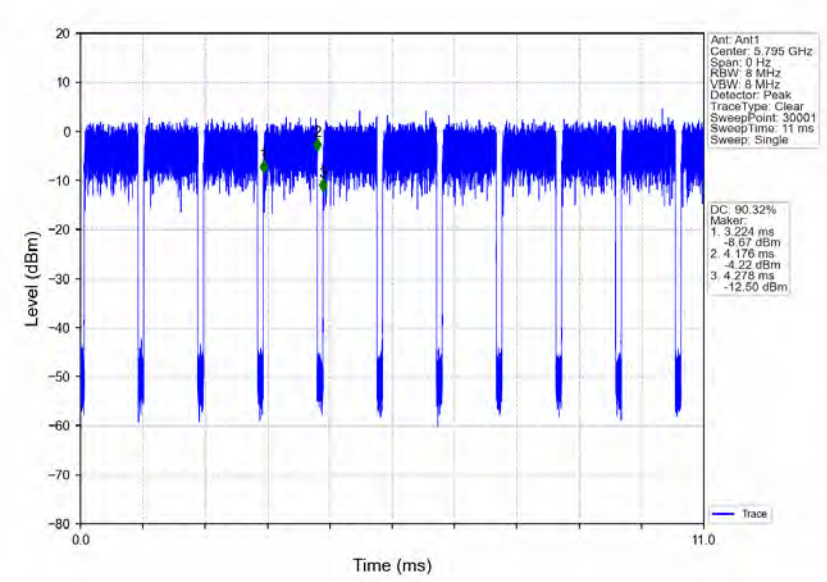


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