

TEST REPORT

Application No.: SHEM2107007422CR
FCC ID: 2AVYF-IPC-BX6L
IC: 25954-IPCBX6L
Applicant: Hangzhou Huacheng Network Technology Co.,Ltd.
Address of Applicant: No.2930, Nanhuan Road, Binjiang District, Hangzhou, China
Manufacturer: Hangzhou Huacheng Network Technology Co.,Ltd.
Address of Manufacturer: No.2930, Nanhuan Road, Binjiang District, Hangzhou, China
Equipment Under Test (EUT):
EUT Name: CONSUMER CAMERA
Model No.: IPC-B46LN,IPC-B46LP,IPC-B46LN-CAN,IPC-B46LP-White,IPC-B46LN-White,IPC-B46LN-imou,IPC-B46LP-imou,IPC-B46LN-White-CAN,IPC-B46LP-White-imou,IPC-B46LN-White-imou,IPC-B46LN-White-imou-CAN
Standard(s) : 47 CFR Part 15, Subpart E 15.407
 RSS-247 Issue 2, February 2017
 RSS-Gen Issue 5, February 2021 Amendment 2
Date of Receipt: 2021-07-08
Date of Test: 2021-10-18 to 2021-11-08
Date of Issue: 2021-11-08

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

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

Parlam Zhan

Parlam Zhan
Laboratory Manager

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



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For IC Model No.: IPC-B46LN-CAN, IPC-B46LN-imou-CAN, IPC-B46LN-White-CAN, IPC-B46LN-White-imou-CAN, IPC-B46LN-White



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| Revision Record | | | |
|-----------------|-------------|------------|--------|
| Version | Description | Date | Remark |
| 00 | Original | 2021-11-08 | / |
| | | | |
| | | | |

| | | | |
|--------------------------|--|---------------------------------------|--|
| Authorized for issue by: | | | |
| | | <i>Michael Niu</i> | |
| | | Micheal Niu / Project Engineer | |
| | | <i>Parlam Zhan</i> | |
| | | Parlam Zhan / Reviewer | |



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2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|--------------------------------------|--------------------------------------|------------------------|--------|--------|
| Item | FCC Requirement | IC Requirement | Method | Result |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.203 | RSS-Gen Clause 6.8 | N/A | Pass |
| Transmission in the Absence of Data | 47 CFR Part 15, Subpart E 15.407 (c) | RSS-247 Section 6.4(a) | N/A | Pass |

N/A: Not applicable

| Radio Spectrum Matter Part | | | | |
|---|--|---|--------------------------------|--------|
| Item | FCC Requirement | IC Requirement | Method | Result |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(6) | RSS-Gen Section 8.8 | ANSI C63.10 (2013) Section 6.2 | Pass |
| 99% Bandwidth | N/A | RSS-Gen Section 6.7 | KDB 789033 II D | Pass |
| 26dB Emission bandwidth | 47 CFR Part 15, Subpart E 15.407 (a) | RSS-247 Section 6.2.1(1) | KDB 789033 D02 II C 1 | Pass |
| Minimum 6 dB bandwidth (5.725-5.85 GHz band) | 47 CFR Part 15, Subpart E 15.407 (e) | RSS-247 Section 6.2.4 | KDB 789033 D02 II C 2 | Pass |
| Maximum Conducted output power | 47 CFR Part 15, Subpart E 15.407 (a) | RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4 | KDB 789033 D02 II E | Pass |
| Peak Power spectrum density | 47 CFR Part 15, Subpart E 15.407 (a) | RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4 | KDB 789033 D02 II F | Pass |
| Radiated Emissions | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b) | RSS-247 Section 3.3 & RSS-Gen Section 8.9 | KDB 789033 D02 II G | Pass |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b) | RSS-247 Section 3.3 & RSS-Gen Section 8.9 | KDB 789033 D02 II G | Pass |
| Frequency Stability | - | RSS-Gen Section 8.11 | RSS-Gen Section 6.11 | Pass |

Declaration of EUT Family Grouping:

There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model IPC-B46LN was tested since their differences were the model number, trade name, Color and appearance.



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 3.6V by Rechargeable Lithium-Ion Battery charged by DC 5V Adapter
 Battery Model: FRB20
 Nominal Voltage: 3.6V
 Rated Capacity: 6000mAh/21.6Wh
 Limited Charging Voltage: 4.2V

Test voltage: AC 120V/60Hz
 Serial Number: 7D0C50DAAZ62FA8
 Firmware Version: V2.800.0000000.3.R.210516

| Operation Frequency: | Band | Mode | Frequency Range (MHz) | Number of channels |
|----------------------|--|-----------------|-----------------------|--------------------|
| | UNII Band I | 802.11a/n(HT20) | 5180-5240 | 4 |
| | UNII Band II-A | 802.11a/n(HT20) | 5260-5320 | 4 |
| | UNII Band II-C | 802.11a/n(HT20) | 5500-5700 | 11 |
| | UNII Band III | 802.11a/n(HT20) | 5745-5825 | 5 |
| Modulation Type: | 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) | | | |
| Channel Spacing: | 802.11a/n(HT20): 20MHz | | | |
| Data Rate: | 802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-7 | | | |
| Antenna Gain: | Ant 1:3.58dBi(Provided by manufacturer) Ant 2:3.58dBi(Provided by manufacturer) | | | |
| Antenna Type: | Antenna 1: PCB Antenna Antenna 2: PCB Antenna | | | |



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4.2 Power level setting using in test

| Channel | 802.11a | | 802.11n(HT20) | |
|---------|---------|-------|---------------|-------|
| | Ant 1 | Ant 2 | Ant 1 | Ant 2 |
| 36 | 10 | 11 | 10 | 11 |
| 40 | 10 | 11 | 10 | 10 |
| 48 | 10 | 11 | 10 | 10 |
| 52 | 11 | 12 | 11 | 11 |
| 60 | 11 | 12 | 11 | 12 |
| 64 | 11 | 12 | 11 | 12 |
| 100 | 12 | 13 | 12 | 13 |
| 116 | 12 | 13 | 12 | 12 |
| 140 | 12 | 13 | 12 | 13 |
| 149 | 12 | 13 | 12 | 13 |
| 157 | 12 | 13 | 12 | 12 |
| 165 | 12 | 13 | 12 | 12 |

4.3 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--|--------------|---------------------|
| Adapter | Sichuan Jiuzhou Electronic Technology Co., Ltd | DYS05100CP-U | / |
| Note Book | LENOVO | Y510P | SZSMT55INP141501639 |



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4.4 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 8.4 x 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.

4.6 Test Facility

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

- **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 2541.01)**

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

- **FCC (Designation Number: CN1172)**

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

- **ISED (CAB identifier: CN0072)**

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 (Member No.: 1938)**

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 | Serial Number | Cal Date | Cal. Due Date |
|---|--------------------------------------|---------------|------------|---------------|------------|---------------|
| Conducted Emission at Mains Terminals (150kHz-30MHz) | | | | | | |
| 1 | EMI Test Receive | R&S | ESCI | 100781 | 02/01/2021 | 01/31/2022 |
| 2 | LISN | R&S | ENV216 | 101604 | 10/19/2020 | 10/18/2021 |
| | | | | | 10/12/2021 | 10/11/2022 |
| 3 | LISN | Schwarzbeck | NNLK 8129 | 8129-143 | 10/19/2020 | 10/18/2021 |
| | | | | | 10/12/2021 | 10/11/2022 |
| 4 | Pulse Limiter | R&S | ESH3-Z2 | 100609 | 02/01/2021 | 01/31/2022 |
| 5 | CE test Cable | Thermax | / | 14 | 10/17/2020 | 10/16/2021 |
| | | | | | 10/16/2021 | 10/15/2022 |
| 6 | Test Software | Farad | EZ-EMC | CCS-03A1 | N.C.R | N.C.R |
| RF Conducted Test | | | | | | |
| 1 | Spectrum Analyzer | Agilent | E4446A | MY44020154 | 04/16/2021 | 04/15/2022 |
| 2 | Spectrum Analyzer | Keysight | N9020A | MY55370209 | 12/02/2020 | 12/01/2021 |
| | | | | | 10/11/2021 | 10/10/2022 |
| 3 | Spectrum Analyzer | Keysight | N9010A | MY56480443 | 02/01/2021 | 01/31/2022 |
| 4 | Signal Generator | Agilent | N5182A | MY50142015 | 08/27/2021 | 08/26/2022 |
| 5 | Radio Communication Test Station | Anritsu | MT8000A | 6262012849 | N/A | N/A |
| 6 | Radio Communication Analyzer | Anritsu | MT8821C | 6201692222 | N/A | N/A |
| 7 | Universal Radio Communication Tester | R&S | CMW500 | 159275 | 10/19/2020 | 10/18/2021 |
| | | | | | 10/12/2021 | 10/11/2022 |
| 8 | Universal Radio Communication Tester | R&S | CMW500 | 167239 | 04/16/2021 | 04/15/2022 |
| 9 | Power Meter | Anritsu | ML2495A | 1445010 | 04/15/2021 | 04/14/2022 |
| 10 | Switcher | CCSRF | FY562 | KUS2001M001-3 | 10/19/2020 | 10/18/2021 |
| | | | | | 10/12/2021 | 10/11/2022 |
| 11 | AC Power Source | EXTECH | 6605 | 1570106 | N.C.R | N.C.R |
| 12 | DC Power Supply | Aglient | E3632A | MY50340053 | N.C.R | N.C.R |
| 13 | 6dB Attenuator | Mini-Circuits | NAT-6-2W | 15542-1 | N.C.R | N.C.R |
| 14 | Power Divider | AISI | IOWOPE2068 | PE2068 | N.C.R | N.C.R |
| 15 | Filter | MICRO-TRONICS | BRM50701 | 5 | N.C.R | N.C.R |
| 16 | Conducted test cable | / | RF01-RF04 | / | 04/15/2021 | 04/14/2022 |
| 17 | Software | BST | TST-PASS | N/A | N/A | N/A |
| 18 | Temp. / Humidity Chamber | TERCHY | MHK-120AK | X30109 | 04/15/2021 | 04/14/2022 |
| 19 | Thermometer | Anymetre | TH603 | CCS007 | 10/16/2020 | 10/15/2021 |
| | | | | | 10/14/2021 | 10/13/2022 |
| RF Radiated Test | | | | | | |
| 1 | Spectrum Analyzer | R&S | FSV40 | 101493 | 10/19/2020 | 10/18/2021 |
| | | | | | 10/11/2021 | 10/10/2022 |
| 2 | Signal Generator | Agilent | E8257C | MY43321570 | 10/19/2020 | 10/18/2021 |
| | | | | | 10/18/2021 | 10/17/2022 |
| 3 | Loop Antenna | Schwarzbeck | HXYZ9170 | 9170-108 | 02/22/2021 | 02/21/2022 |
| 4 | Bilog Antenna | TESEQ | CBL 6112D | 35403 | 06/21/2021 | 06/20/2023 |
| 5 | Bilog Antenna | SCHWARZBECK | VULB9160 | 9160-3342 | 04/13/2021 | 04/12/2023 |
| 6 | Horn-antenna(1-18GHz) | Schwarzbeck | BBHA9120D | 267 | 10/26/2020 | 10/25/2022 |
| 7 | Horn-antenna(1-18GHz) | ETS-LINDGREN | 3117 | 00143290 | 02/22/2021 | 02/21/2023 |
| 8 | Horn Antenna(18-40GHz) | Schwarzbeck | BBHA9170 | BBHA9170171 | 02/22/2021 | 02/21/2022 |



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| | | | | | | |
|----|----------------------------|---------------|---------------|-------------|------------|------------|
| 9 | Pre-Amplifier(30MHz~18GHz) | LNA | / | / | 04/15/2021 | 04/14/2022 |
| 10 | Amplifier(18~40GHz) | COM-POWER | PAM-840A | 461332 | 10/23/2020 | 10/22/2021 |
| | | | | | 10/18/2021 | 10/17/2022 |
| 11 | Low Pass Filter | MICRO-TRONICS | VLFX-950 | RV142900829 | N.C.R | N.C.R |
| 12 | High Pass Filter | Mini-Circuits | VHF-1200 | 15542 | N.C.R | N.C.R |
| 13 | Filter (5450MHz~5770 MHz) | MICRO-TRONICS | BRC50704-01 | 2 | N.C.R | N.C.R |
| 14 | Filter (5690 MHz~5930 MHz) | MICRO-TRONICS | BRC50705-01 | 4 | N.C.R | N.C.R |
| 15 | Filter (5150 MHz~5350 MHz) | MICRO-TRONICS | BRC50703-01 | 2 | N.C.R | N.C.R |
| 16 | Filter (885 MHz~915 MHz) | MICRO-TRONICS | BRM14698 | 1 | N.C.R | N.C.R |
| 17 | Filter (815 MHz~860 MHz) | MICRO-TRONICS | BRM14697 | 1 | N.C.R | N.C.R |
| 18 | Filter (1745 MHz~1910 MHz) | MICRO-TRONICS | BRM14700 | 1 | N.C.R | N.C.R |
| 19 | Filter (1922 MHz~1977 MHz) | MICRO-TRONICS | BRM50715 | 1 | N.C.R | N.C.R |
| 20 | Filter (2550 MHz) | MICRO-TRONICS | HPM13362 | 5 | N.C.R | N.C.R |
| 21 | Filter (1532 MHz~1845 MHz) | MICRO-TRONICS | BRM50713 | 1 | N.C.R | N.C.R |
| 22 | Filter (2.4GHz) | MICRO-TRONICS | BRM50701 | 5 | N.C.R | N.C.R |
| 23 | RE test cable | / | RE01-RE04 | / | 04/15/2021 | 04/14/2022 |
| 24 | Software | Faratronic | EZ_EMCC-v 3A1 | N/A | 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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna 1 antenna 2 is 3.58dBi.

Antenna location: Refer to Appendix (Internal Photos)



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6.2 Transmitter Power Control

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (h)(1)

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:

RF module (AP6303) 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 & 15.407 b(6)
 Test Method: ANSI C63.10 (2013) Section 6.2
 Limit:

| Frequency of Emission (MHz) | Conducted Limit (dBµV) | |
|-----------------------------|------------------------|-----------|
| | 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.



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7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case: b: Charging+TX mode_ (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

c: Charging+TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

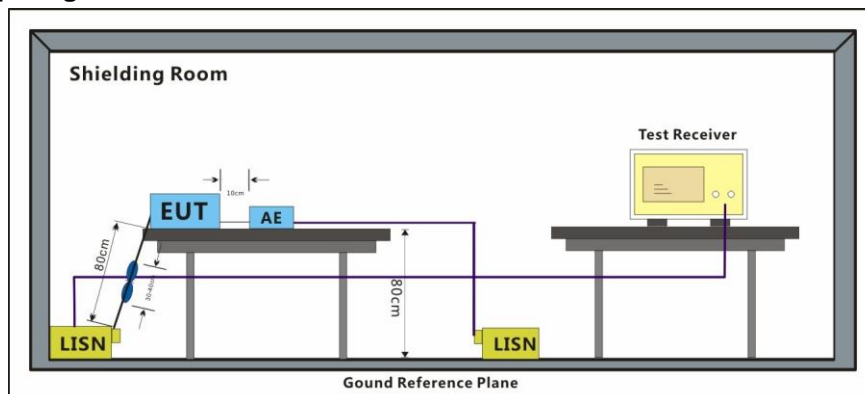
d: Charging+TX mode_ (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

e: Charging+TX mode_ (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

The worst case for final test:

b: Charging+TX mode_ (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



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7.1.3 Measurement Procedure and Data

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

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

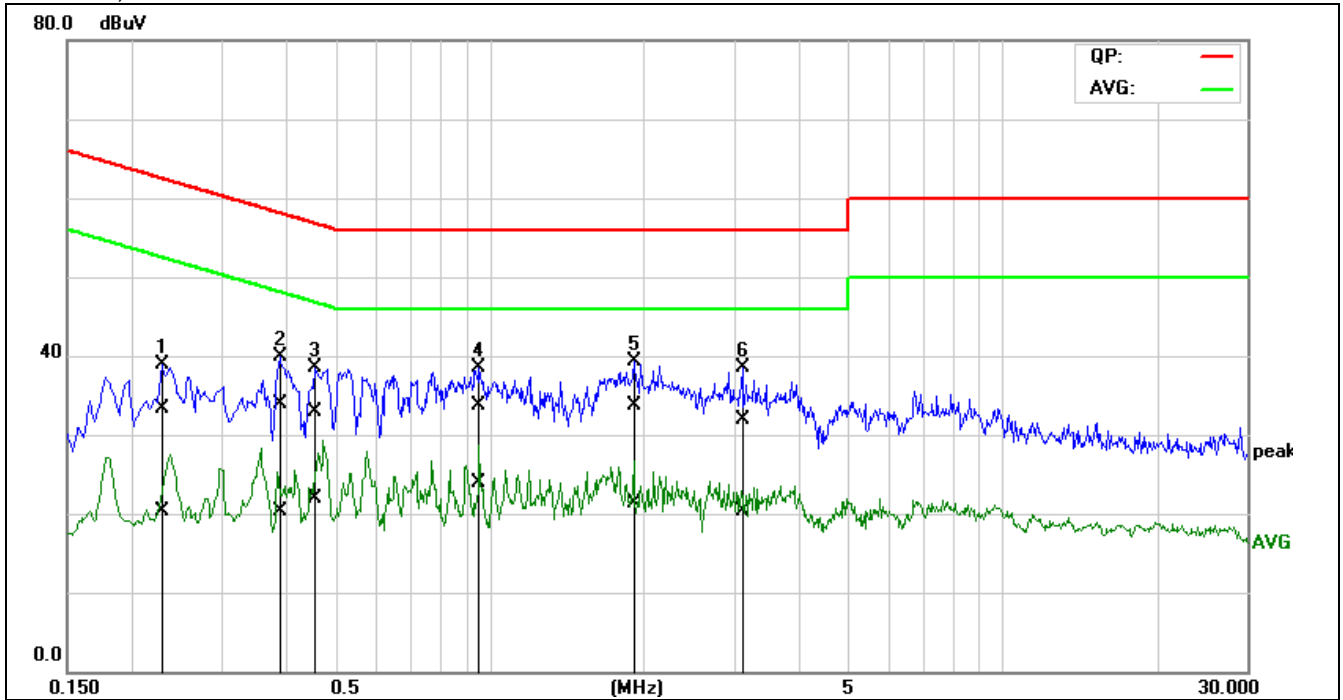


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(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

Mode: b; 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 | 0.2290 | 13.94 | 0.93 | 19.44 | 33.38 | 20.37 | 62.48 | 52.49 | -29.10 | -32.12 | Pass |
| 2 | 0.3891 | 14.45 | 0.83 | 19.48 | 33.93 | 20.31 | 58.08 | 48.08 | -24.15 | -27.77 | Pass |
| 3 | 0.4561 | 13.39 | 2.43 | 19.50 | 32.89 | 21.93 | 56.76 | 46.76 | -23.87 | -24.83 | Pass |
| 4* | 0.9530 | 14.13 | 4.31 | 19.53 | 33.66 | 23.84 | 56.00 | 46.00 | -22.34 | -22.16 | Pass |
| 5 | 1.9080 | 14.06 | 1.75 | 19.57 | 33.63 | 21.32 | 56.00 | 46.00 | -22.37 | -24.68 | Pass |
| 6 | 3.1065 | 12.20 | 0.68 | 19.63 | 31.83 | 20.31 | 56.00 | 46.00 | -24.17 | -25.69 | Pass |



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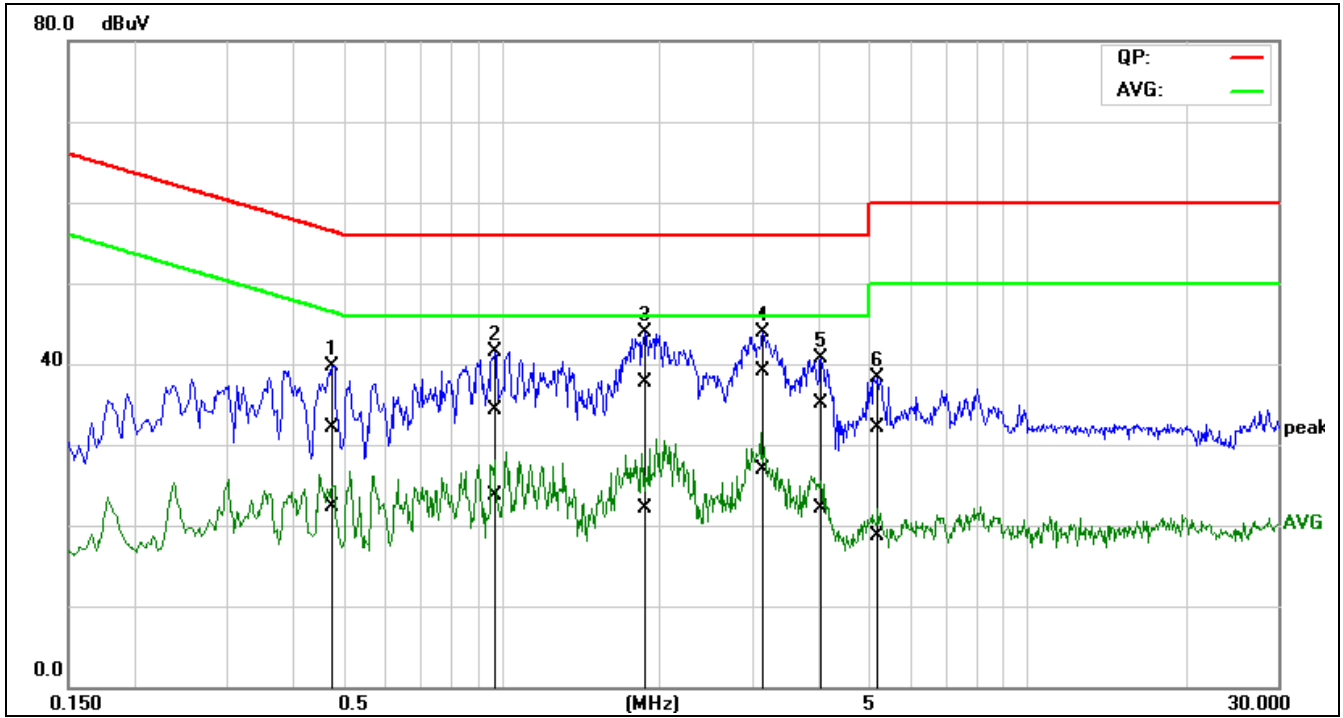
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Mode: b; Line: Neutral Line



| 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 | 0.4761 | 12.60 | 2.81 | 19.50 | 32.10 | 22.31 | 56.41 | 46.41 | -24.31 | -24.10 | Pass |
| 2 | 0.9735 | 14.68 | 4.10 | 19.53 | 34.21 | 23.63 | 56.00 | 46.00 | -21.79 | -22.37 | Pass |
| 3 | 1.8777 | 18.06 | 2.62 | 19.57 | 37.63 | 22.19 | 56.00 | 46.00 | -18.37 | -23.81 | Pass |
| 4* | 3.1396 | 19.40 | 7.22 | 19.63 | 39.03 | 26.85 | 56.00 | 46.00 | -16.97 | -19.15 | Pass |
| 5 | 4.0486 | 15.44 | 2.33 | 19.68 | 35.12 | 22.01 | 56.00 | 46.00 | -20.88 | -23.99 | Pass |
| 6 | 5.1935 | 12.28 | -1.12 | 19.75 | 32.03 | 18.63 | 60.00 | 50.00 | -27.97 | -31.37 | 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: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

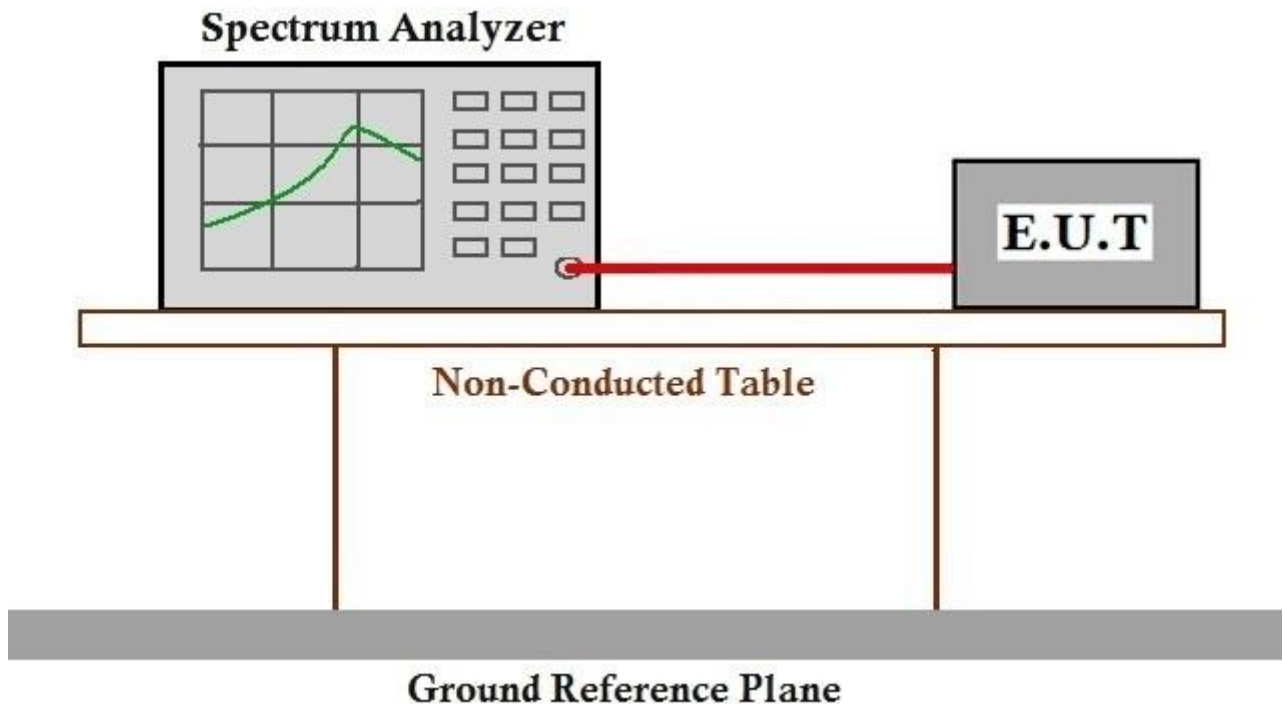
Test mode: b: Charging+TX mode_ (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

c: Charging+TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

d: Charging+TX mode_ (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

e: Charging+TX mode_ (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



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7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210700742202



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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: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

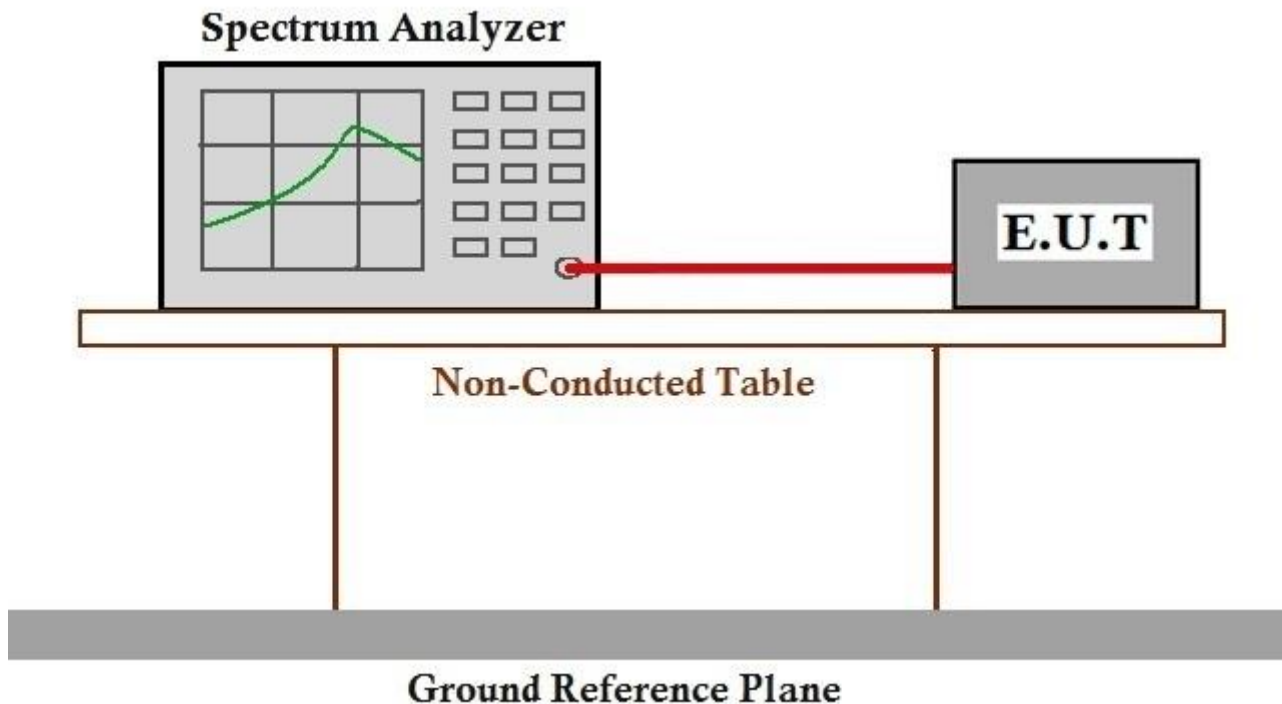
Test mode: b: Charging+TX mode_ (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

c: Charging+TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

d: Charging+TX mode_ (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

e: Charging+TX mode_ (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

7.3.2 Test Setup Diagram



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7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210700742202



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7.4 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

Operating Environment:

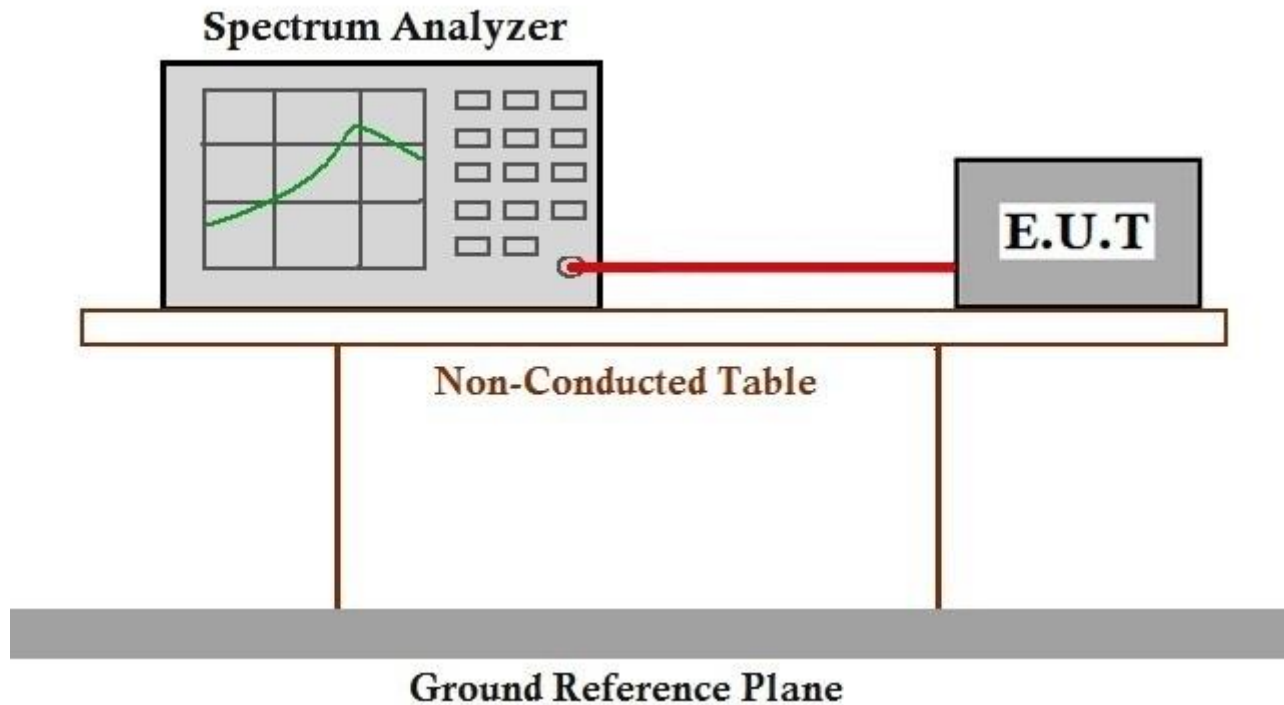
Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode: b: Charging+TX mode_ (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

c: Charging+TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

d: Charging+TX mode_ (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210700742202



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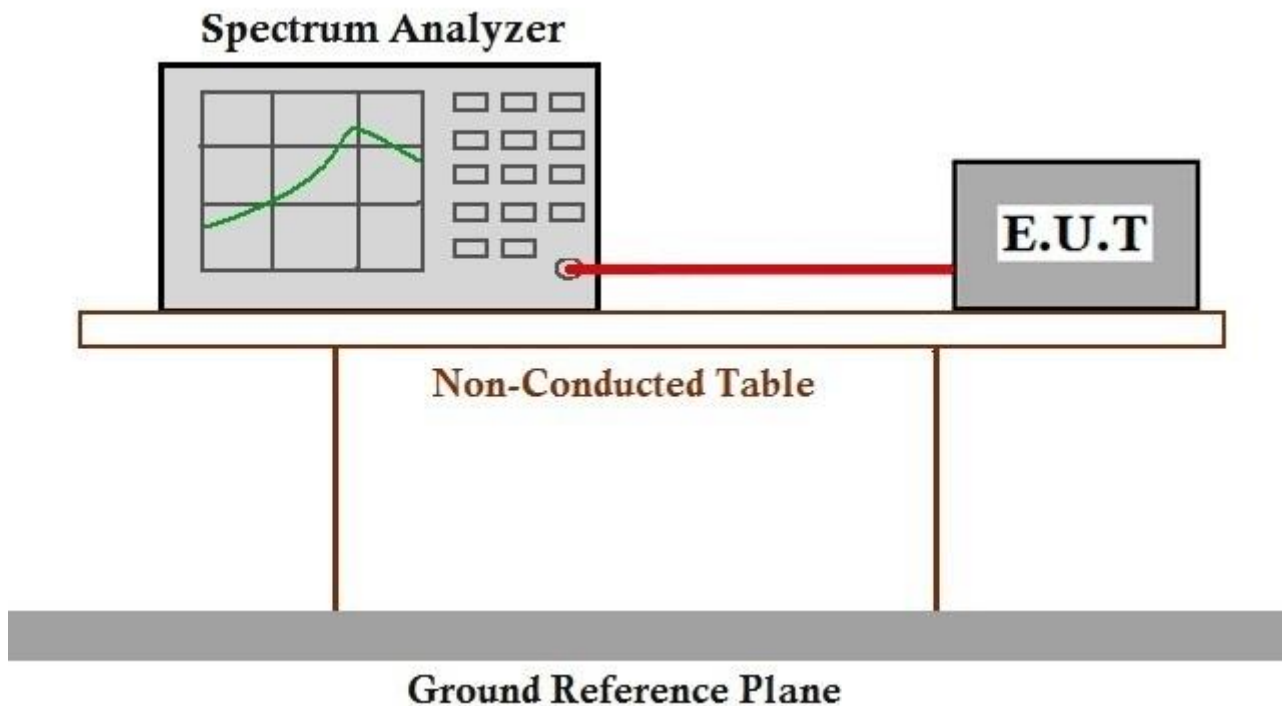
7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)
 Test Method: KDB 789033 D02 II C 2
 Limit: ≥500 kHz

7.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar
 Test mode: e: Charging+TX mode_ (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210700742202



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7.6 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

| Frequency Band (MHz) | Limit |
|----------------------|---|
| 5150-5250 | Maximum e.i.r.p. \leq 200 mW (23.01dBm) or 10 + 10 log ₁₀ B |
| 5250-5350 | Maximum conducted output power \leq 250 mW (23.98dBm) or 11 + 10 log ₁₀ B, whichever power is less; |
| 5470-5725 | |
| 5725-5850 | Maximum e.i.r.p. \leq 1.0 W (30dBm) or 17 + 10 log ₁₀ B |
| 5725-5850 | Maximum conducted output power \leq 1.0 W (30dBm) |
| Remark: | * Where B is the 99% emission bandwidth in MHz. 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: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode: b: Charging+TX mode_ (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

c: Charging+TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

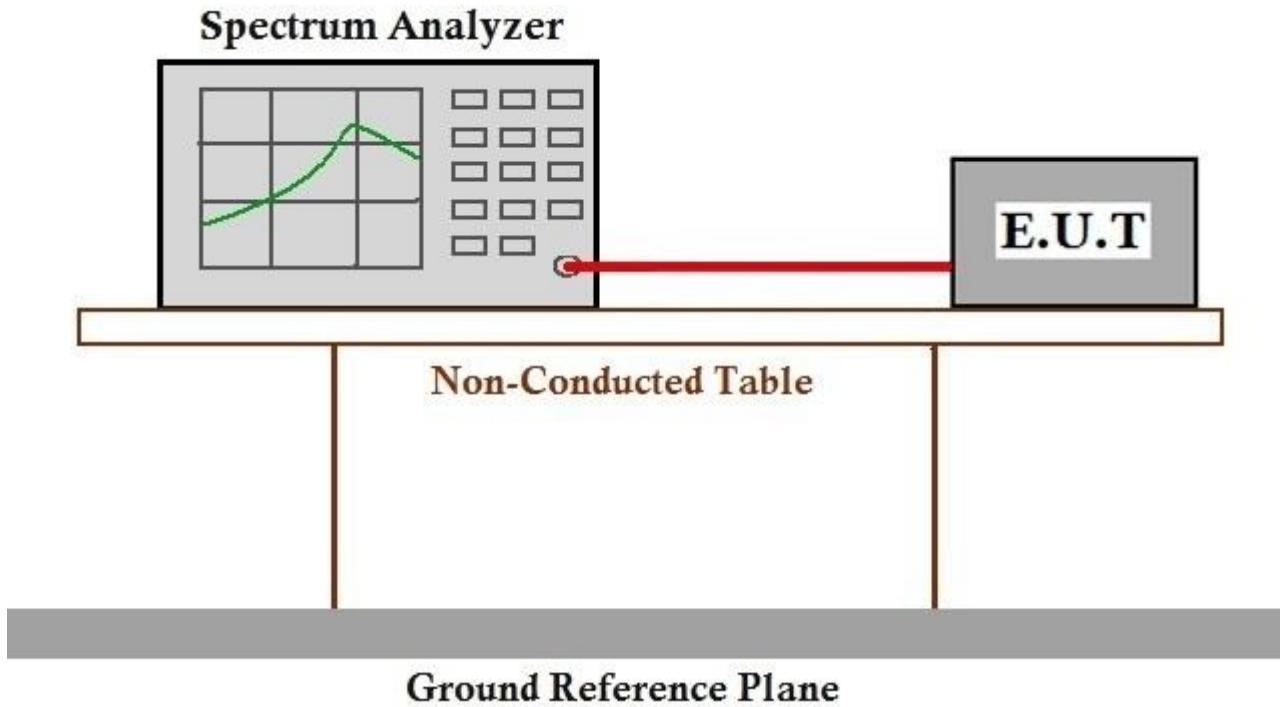
d: Charging+TX mode_ (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

e: Charging+TX mode_ (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.



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7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210700742202



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7.7 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart C 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. |

For the band 5.15-5.25 GHz, the e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

The worst case for final test: b: Charging+TX mode_ (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

c: Charging+TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

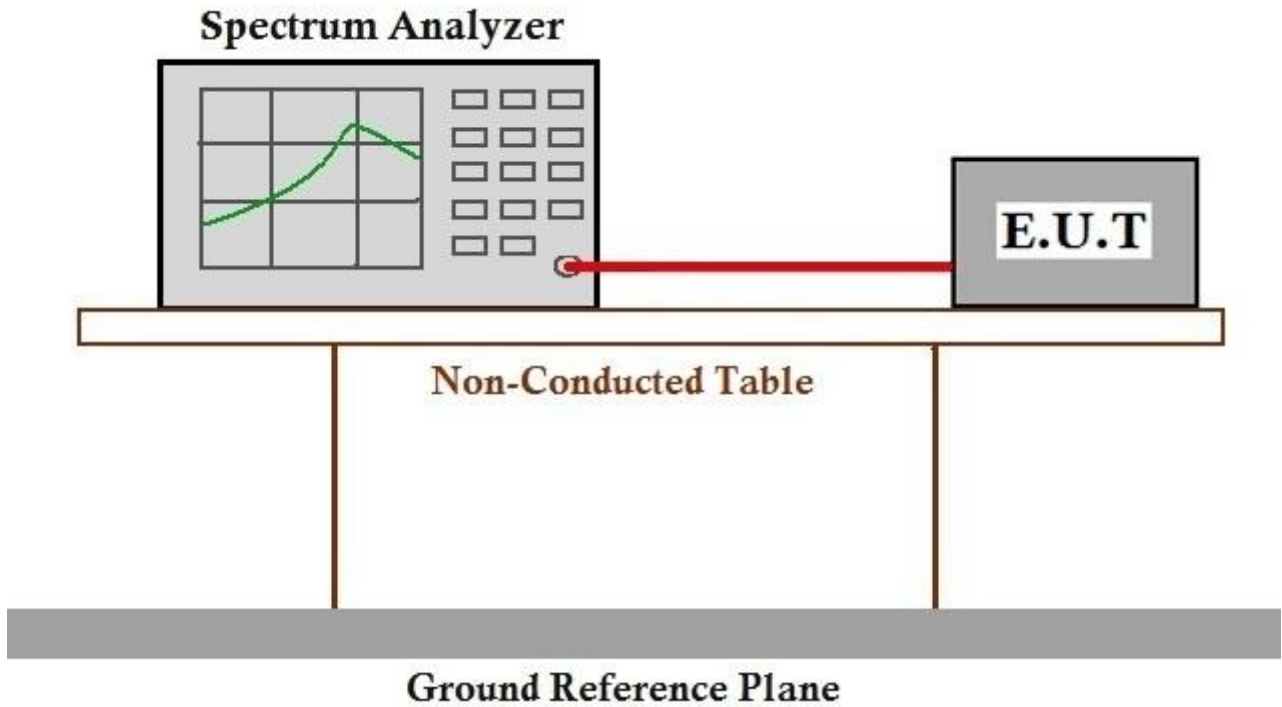
d: Charging+TX mode_ (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

e: Charging+TX mode_ (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.



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7.7.2 Test Setup Diagram



7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210700742202



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7.8 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

Limit:

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 (68.2dBuV/m).

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 (68.2dBuV/m).

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 (68.2dBuV/m).

For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) 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 (110.8dBuV/m) 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 (122.2dBuV/m) at the band edge.

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode: b: Charging+TX mode_ (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

c: Charging+TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

d: Charging+TX mode_ (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

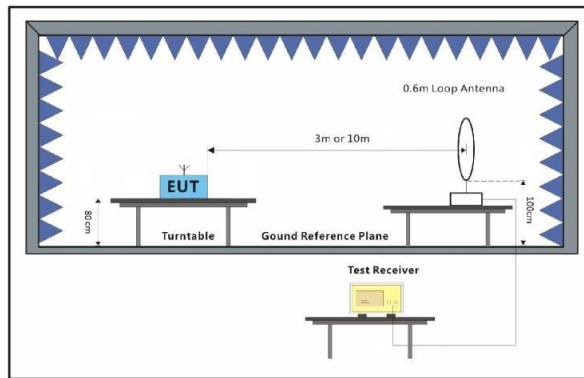
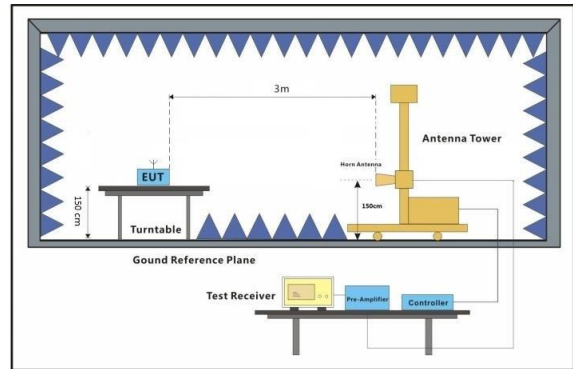
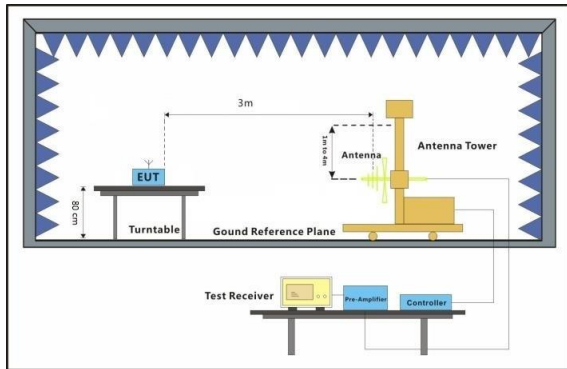
e: Charging+TX mode_ (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.



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7.8.2 Test Setup Diagram



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7.8.3 Measurement Procedure and Data

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

Remark:

1. 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 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. 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.

Remark: This test item was investigated while operating in TX Ant 1 and TX Ant 2 mode, however, it was determined that Ant 1 operation for a/n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



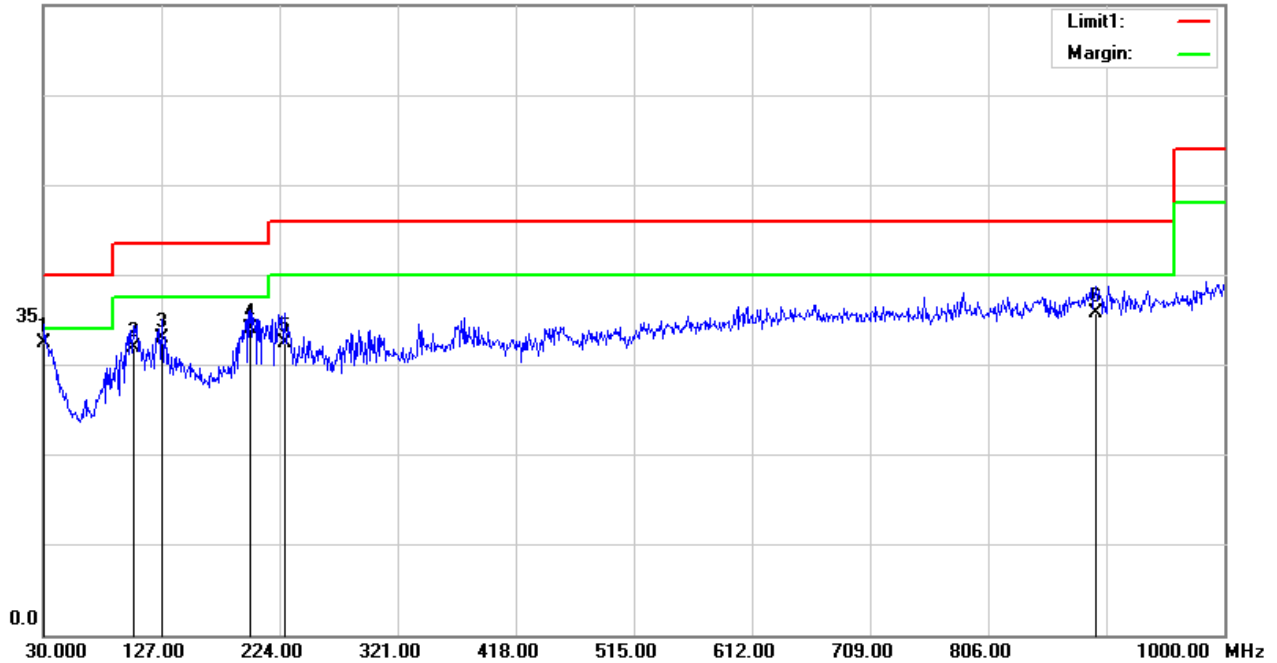
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 中国·上海·松江区金都西路588号 邮编: 201612 (86-21) 61915666 f(86-21)61915678 e sgs.china@sgs.com

30MHz-1GHz

Horizontal

70.0 dBuV/m



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|---------------|--------|
| 1 | 30.9700 | 7.03 | 25.38 | 32.41 | 40.00 | -7.59 | 100 | 69 | QP |
| 2 | 103.7200 | 13.24 | 18.63 | 31.87 | 43.50 | -11.63 | 100 | 254 | QP |
| 3 | 127.0000 | 13.67 | 19.39 | 33.06 | 43.50 | -10.44 | 150 | 24 | QP |
| 4 | 199.7500 | 17.69 | 16.27 | 33.96 | 43.50 | -9.54 | 110 | 197 | QP |
| 5 | 227.8800 | 14.58 | 17.96 | 32.54 | 46.00 | -13.46 | 150 | 45 | QP |
| 6 | 894.2700 | 7.25 | 28.60 | 35.85 | 46.00 | -10.15 | 100 | 125 | QP |

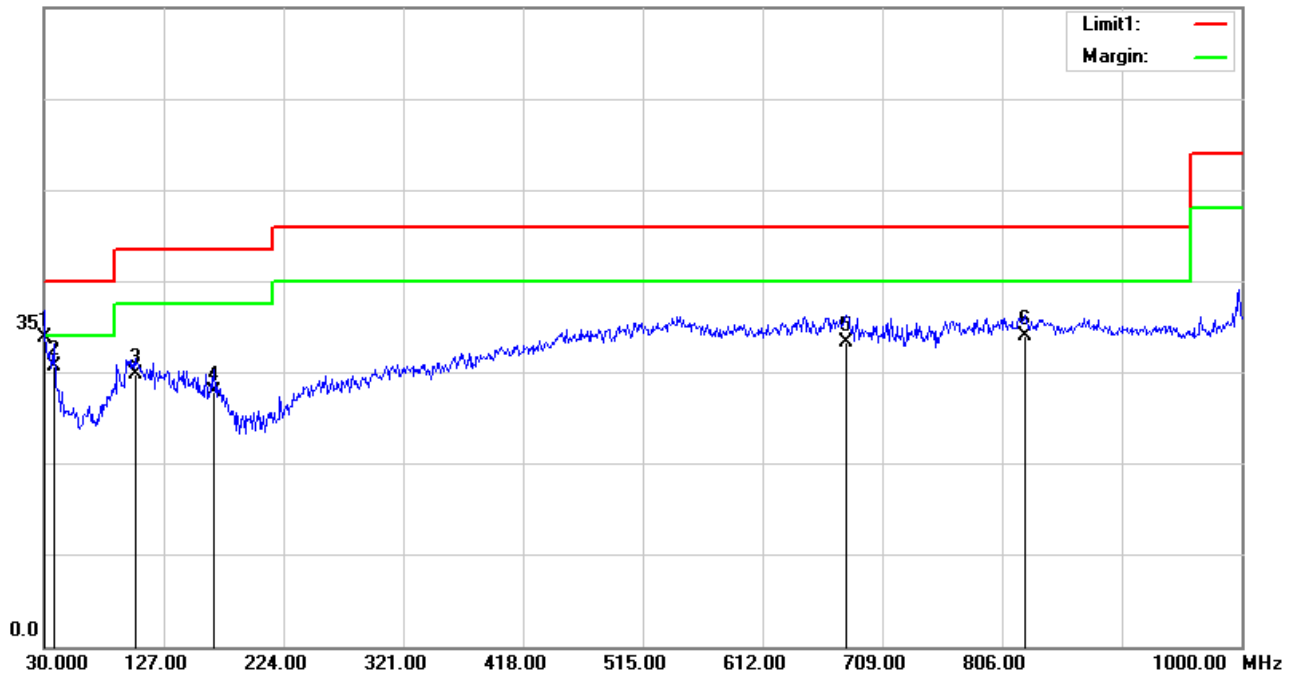


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Vertical

70.0 dBuV/m



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|---------------|--------|
| 1 | 30.0000 | 7.89 | 25.93 | 33.82 | 40.00 | -6.18 | 100 | 307 | QP |
| 2 | 38.7300 | 9.68 | 20.95 | 30.63 | 40.00 | -9.37 | 150 | 164 | QP |
| 3 | 103.7200 | 11.20 | 18.63 | 29.83 | 43.50 | -13.67 | 100 | 25 | QP |
| 4 | 167.7400 | 9.19 | 18.76 | 27.95 | 43.50 | -15.55 | 100 | 254 | QP |
| 5 | 679.9000 | 5.94 | 27.34 | 33.28 | 46.00 | -12.72 | 150 | 54 | QP |
| 6 | 824.4300 | 6.12 | 27.95 | 34.07 | 46.00 | -11.93 | 120 | 182 | QP |



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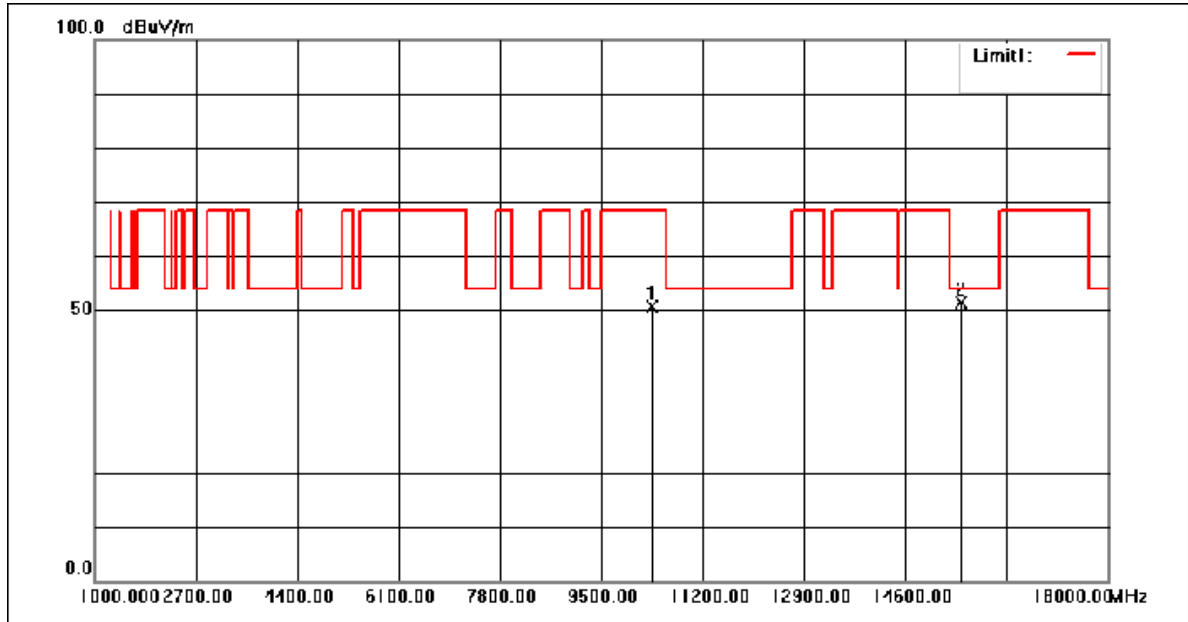
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center EMC

NO.588 West Jindu Road, Songjiang District, Shanghai, China 201612
中国·上海·松江区金都西路588号 邮编: 201612

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Above 1GHz

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



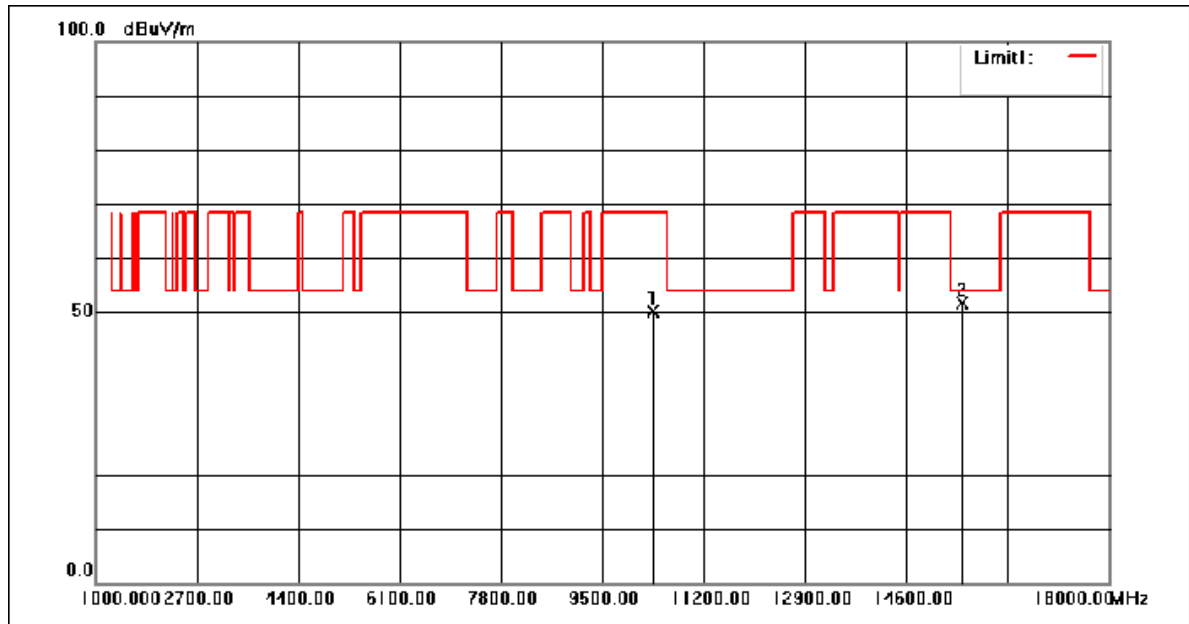
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10360.000 | 50.59 | 0.16 | 50.75 | 68.30 | -17.55 | peak |
| 2 | 15540.000 | 45.59 | 5.73 | 51.32 | 54.00 | -2.68 | peak |



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



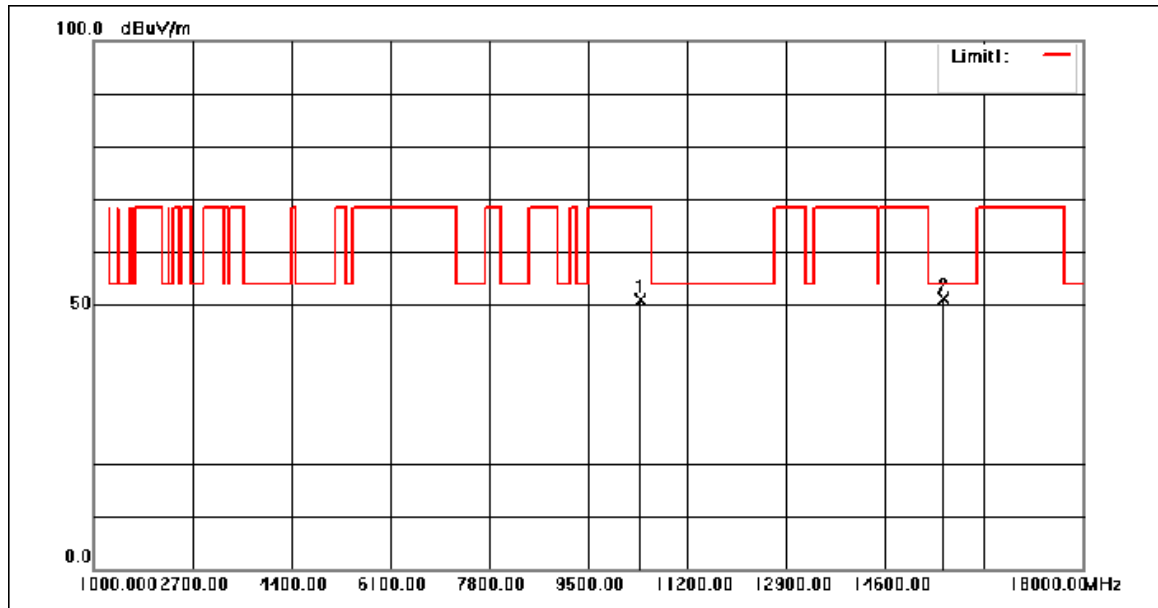
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10360.000 | 50.09 | 0.16 | 50.25 | 68.30 | -18.05 | peak |
| 2 | 15540.000 | 45.95 | 5.73 | 51.68 | 54.00 | -2.32 | peak |



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



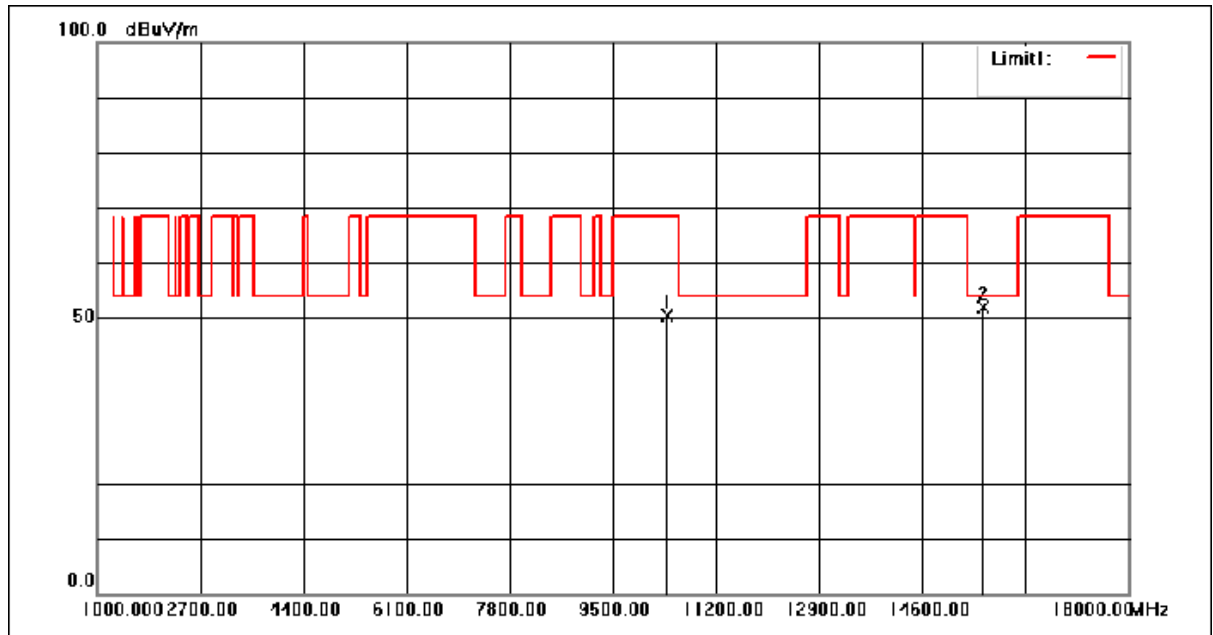
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10400.000 | 50.69 | 0.24 | 50.93 | 68.30 | -17.37 | peak |
| 2 | 15600.000 | 45.17 | 5.85 | 51.02 | 54.00 | -2.98 | peak |



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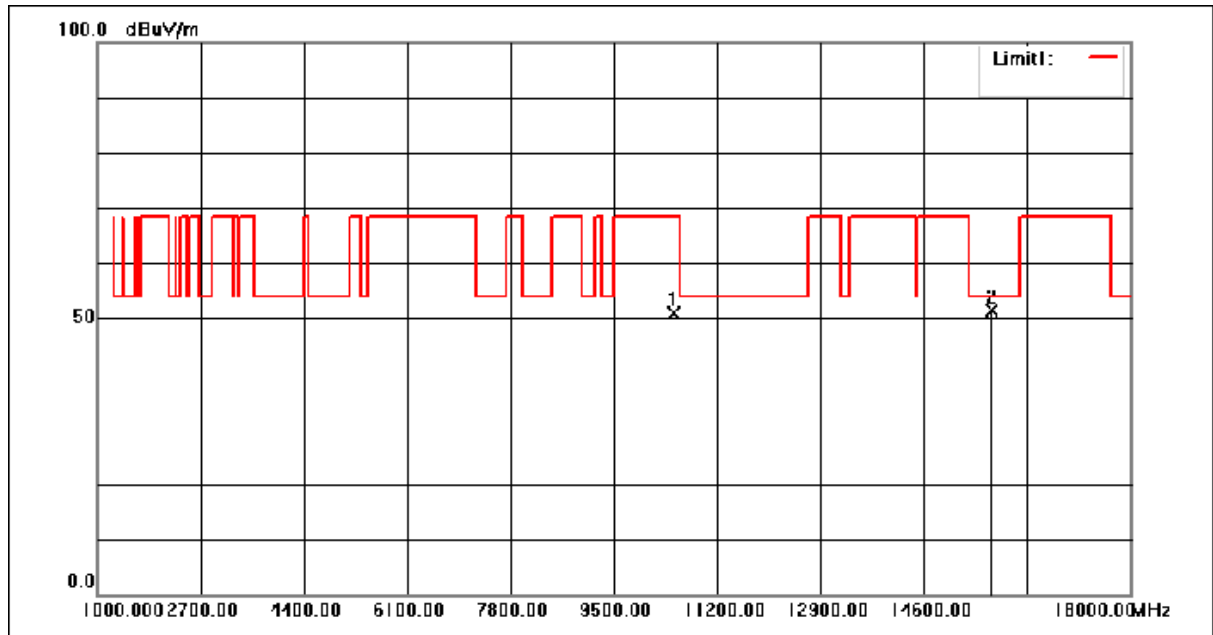
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10400.000 | 50.11 | 0.24 | 50.35 | 68.30 | -17.95 | peak |
| 2 | 15600.000 | 46.05 | 5.85 | 51.90 | 54.00 | -2.10 | peak |



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



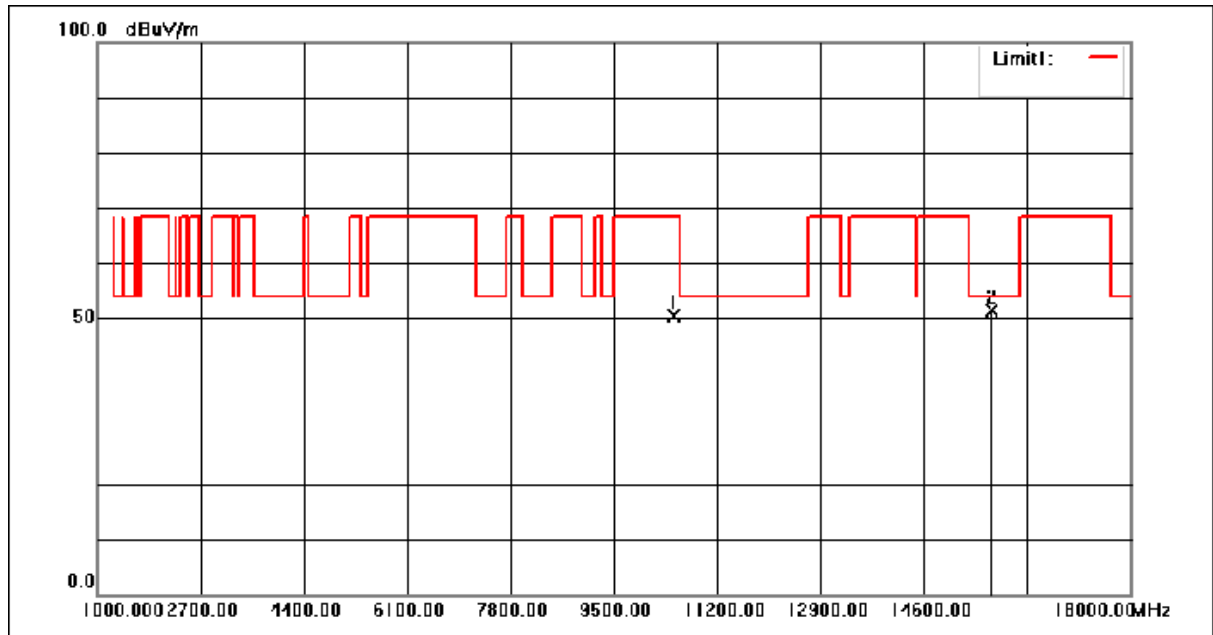
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10480.000 | 50.46 | 0.40 | 50.86 | 68.30 | -17.44 | peak |
| 2 | 15720.000 | 45.32 | 6.10 | 51.42 | 54.00 | -2.58 | peak |



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



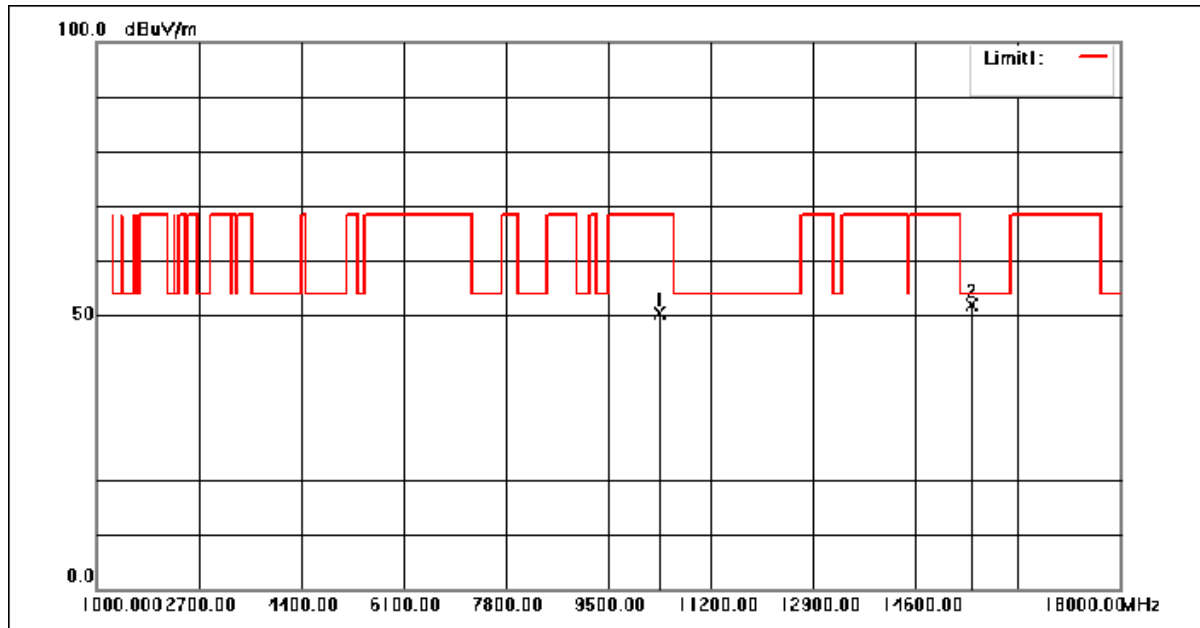
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10480.000 | 49.99 | 0.40 | 50.39 | 68.30 | -17.91 | peak |
| 2 | 15720.000 | 45.16 | 6.10 | 51.26 | 54.00 | -2.74 | peak |



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



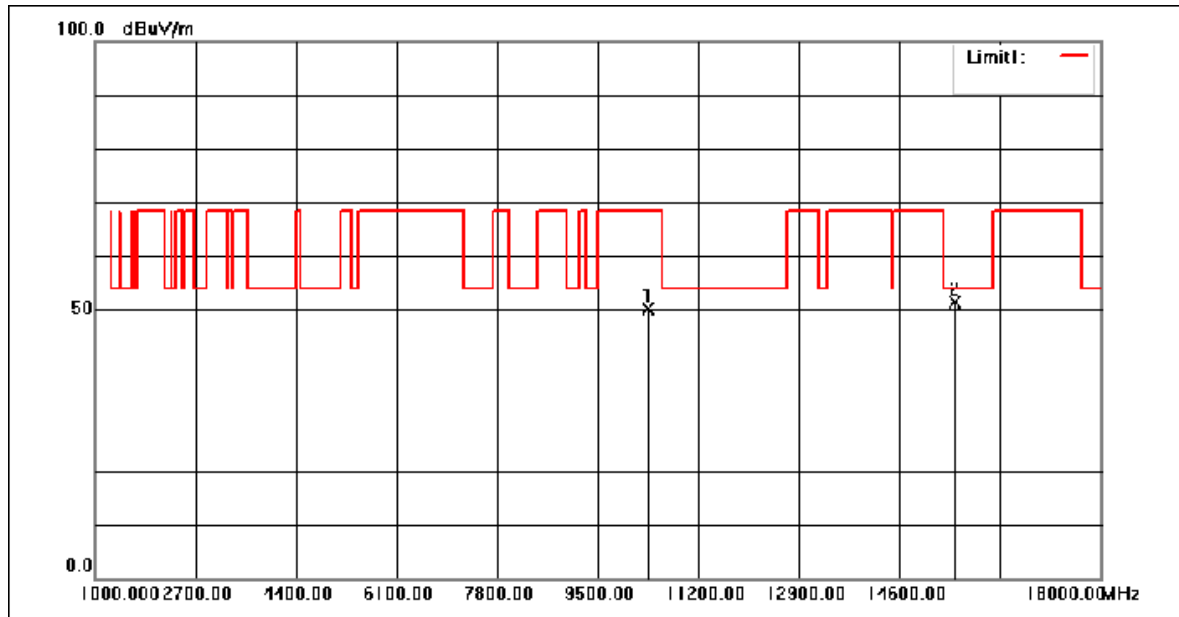
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10360.000 | 50.28 | 0.16 | 50.44 | 68.30 | -17.86 | peak |
| 2 | 15540.000 | 46.08 | 5.73 | 51.81 | 54.00 | -2.19 | peak |



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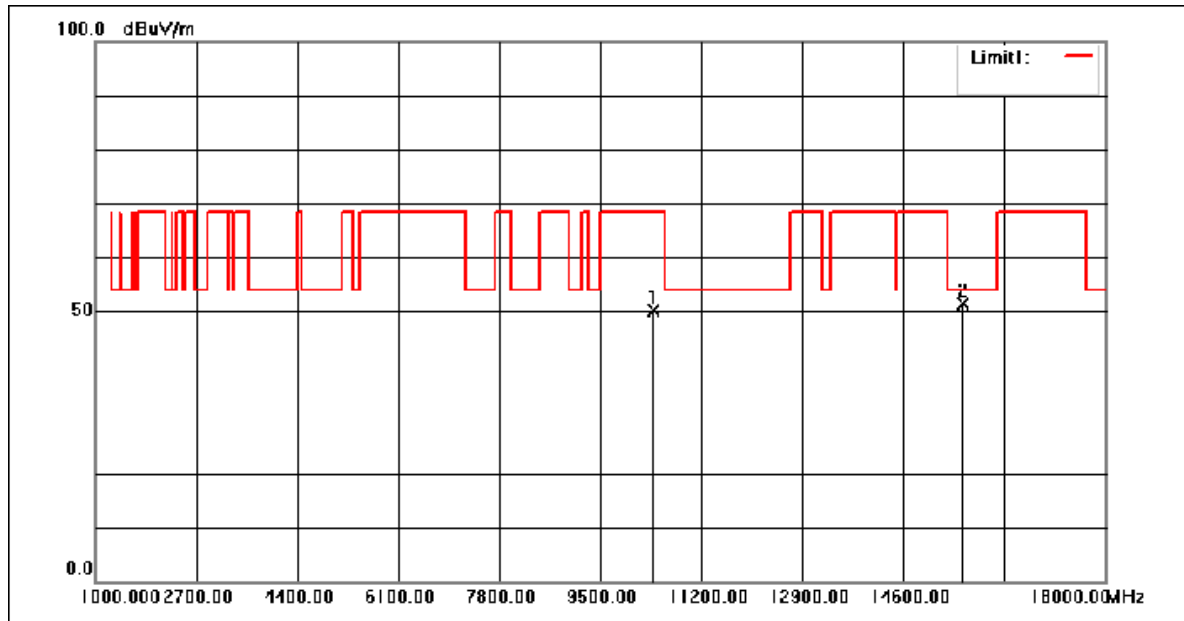
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10360.000 | 50.05 | 0.16 | 50.21 | 68.30 | -18.09 | peak |
| 2 | 15540.000 | 45.72 | 5.73 | 51.45 | 54.00 | -2.55 | peak |



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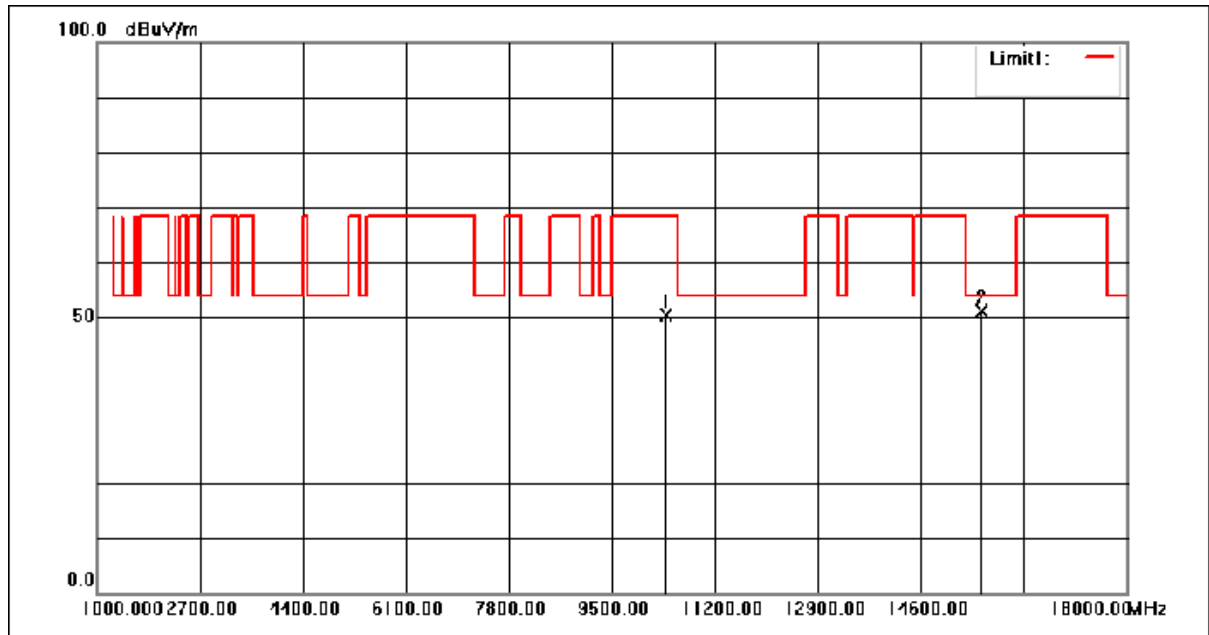
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10400.000 | 49.98 | 0.24 | 50.22 | 68.30 | -18.08 | peak |
| 2 | 15600.000 | 45.53 | 5.85 | 51.38 | 54.00 | -2.62 | peak |



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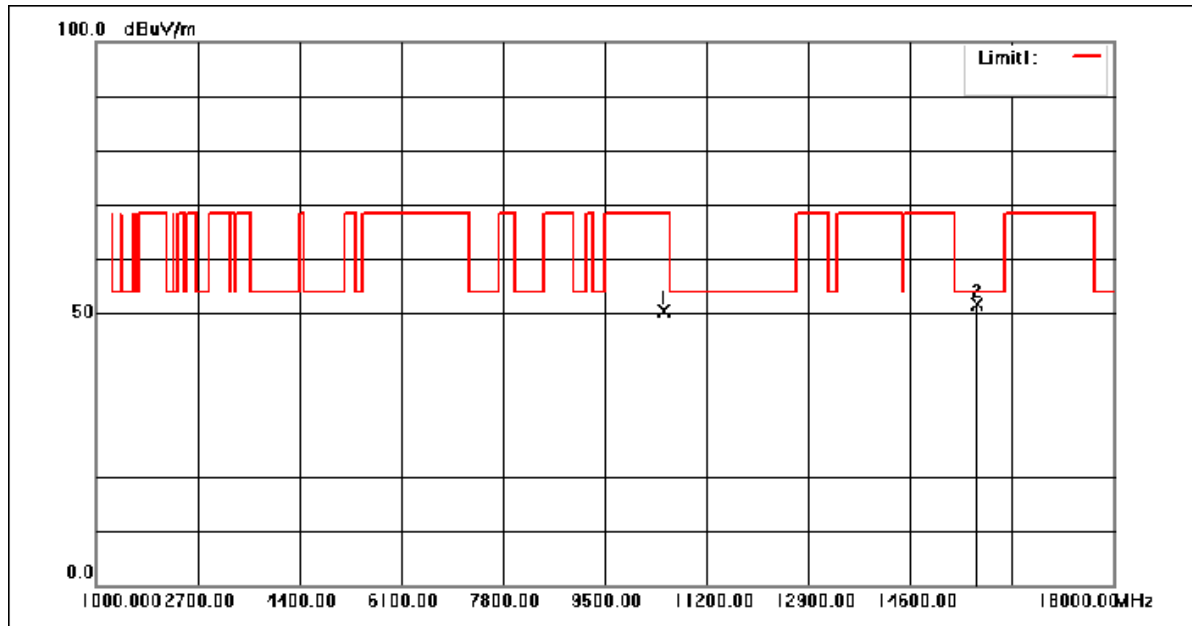
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10400.000 | 50.22 | 0.24 | 50.46 | 68.30 | -17.84 | peak |
| 2 | 15600.000 | 45.26 | 5.85 | 51.11 | 54.00 | -2.89 | peak |



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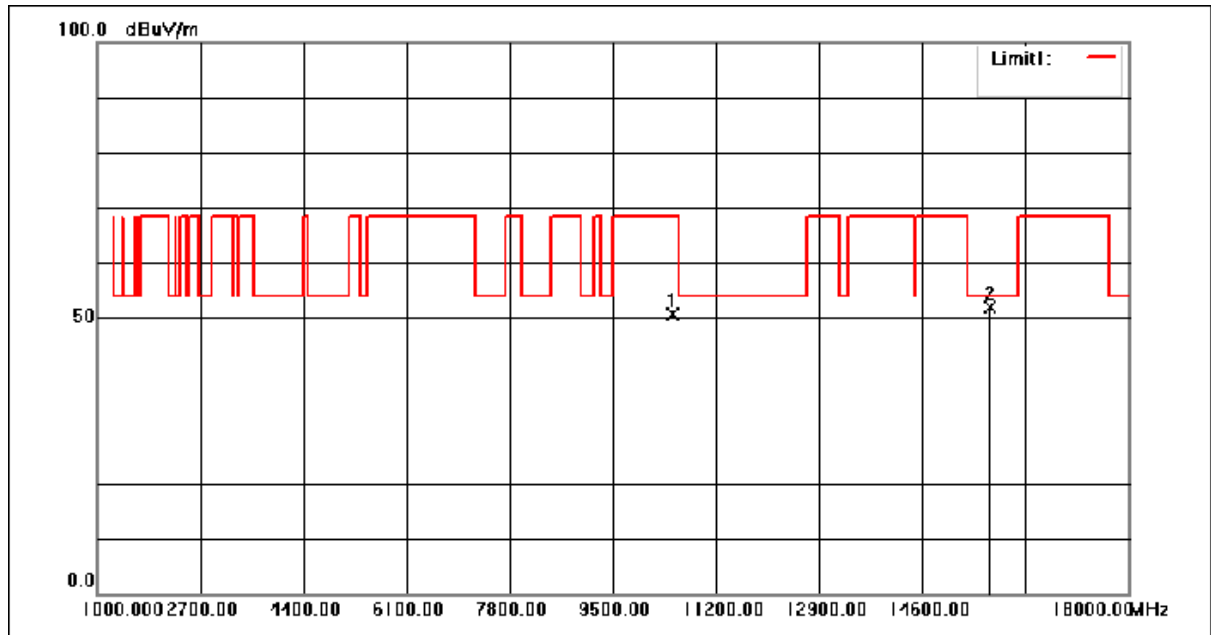
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10480.000 | 50.01 | 0.40 | 50.41 | 68.30 | -17.89 | peak |
| 2 | 15720.000 | 45.63 | 6.10 | 51.73 | 54.00 | -2.27 | peak |



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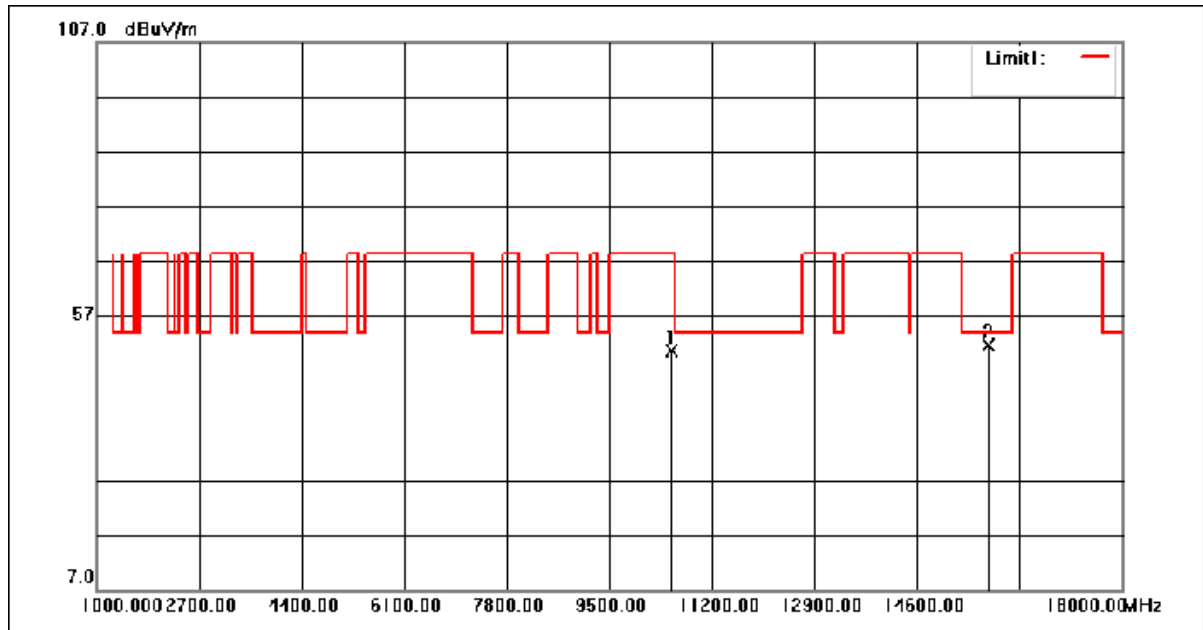
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10480.000 | 50.28 | 0.40 | 50.68 | 68.30 | -17.62 | peak |
| 2 | 15720.000 | 45.66 | 6.10 | 51.76 | 54.00 | -2.24 | peak |



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Mode: c; Polarization: Horizontal; Modulation: a; bandwidth:20MHz; Channel: Low



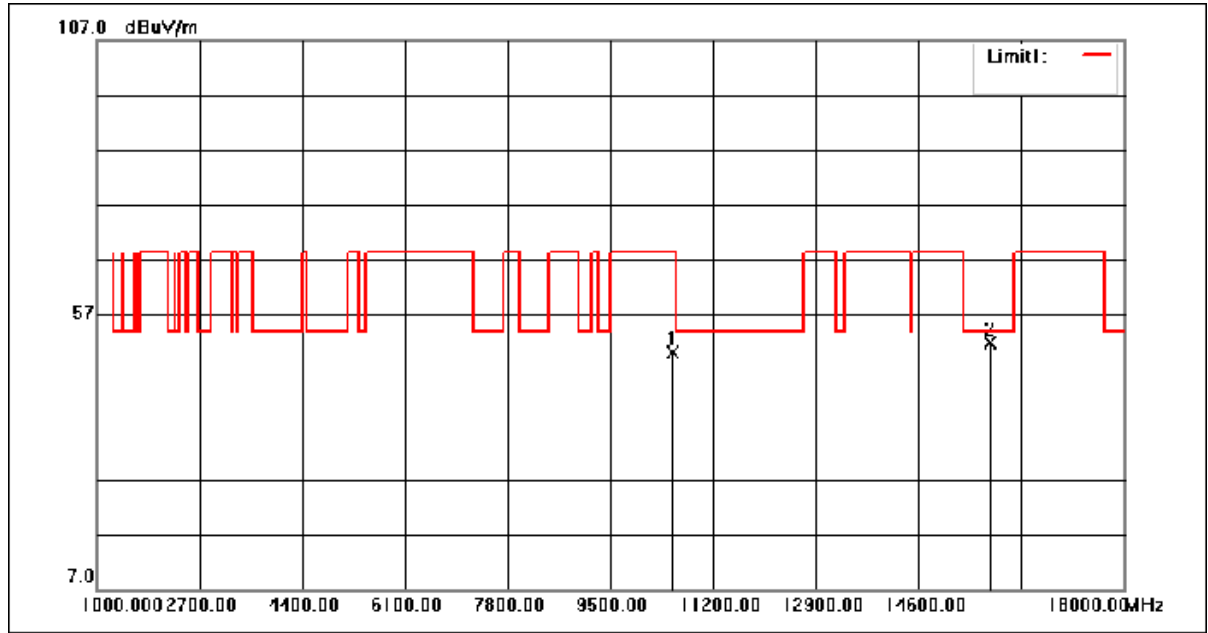
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10520.000 | 50.30 | 0.44 | 50.74 | 68.30 | -17.56 | peak |
| 2 | 15780.000 | 45.29 | 6.23 | 51.52 | 54.00 | -2.48 | peak |



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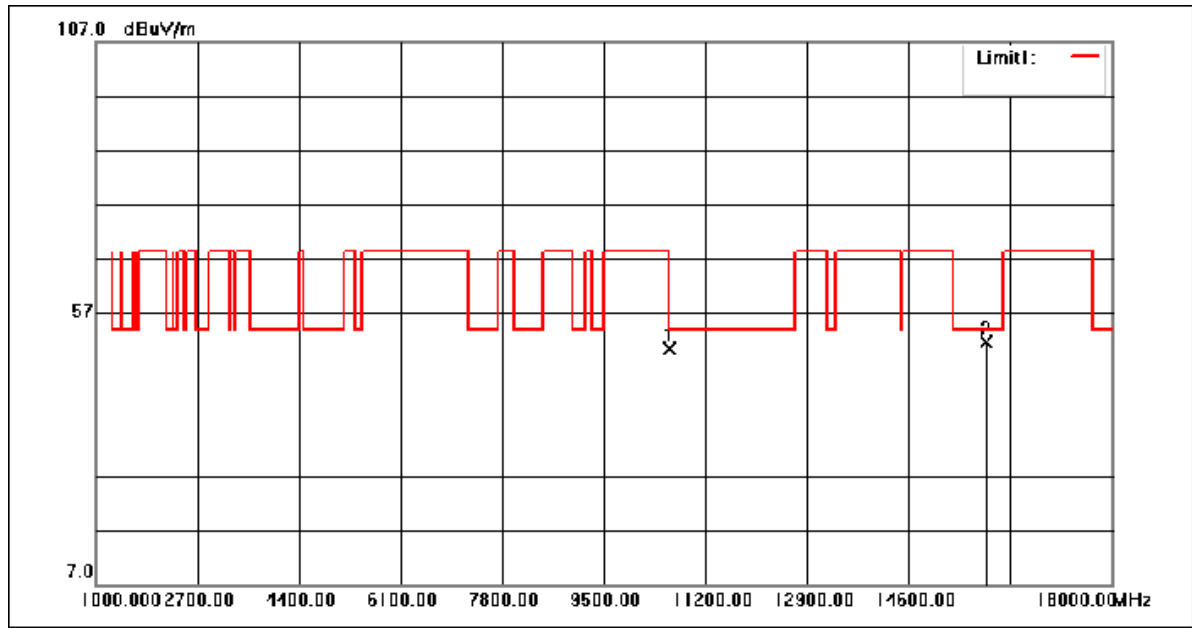
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10520.000 | 49.79 | 0.44 | 50.23 | 68.30 | -18.07 | peak |
| 2 | 15780.000 | 45.64 | 6.23 | 51.87 | 54.00 | -2.13 | peak |



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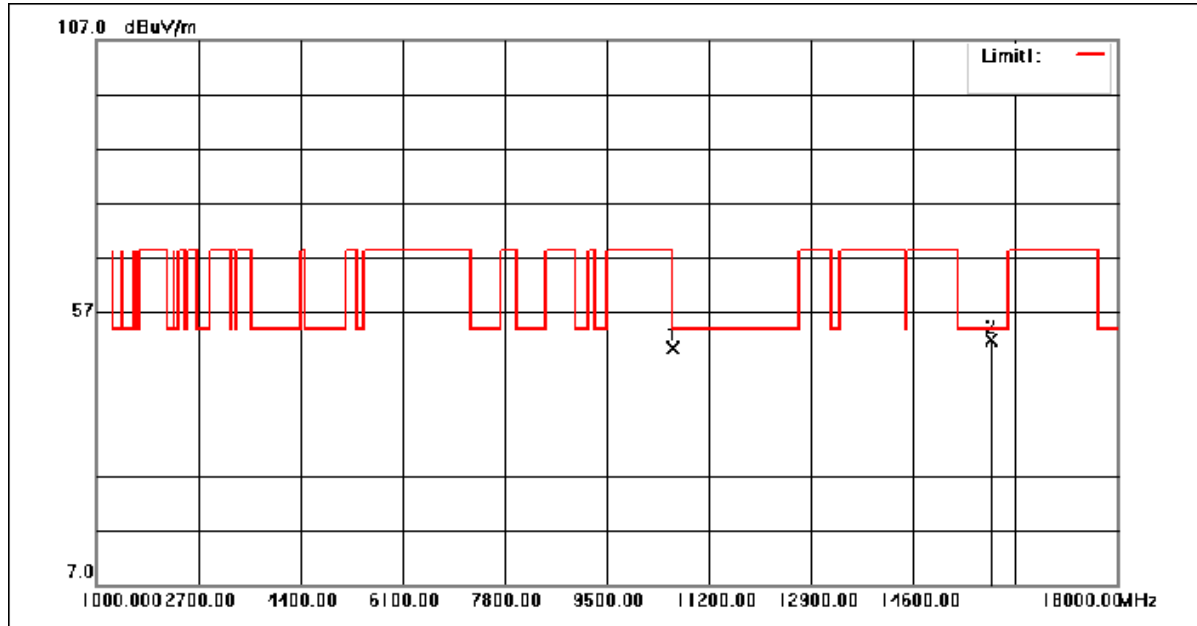
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10600.000 | 49.88 | 0.46 | 50.34 | 54.00 | -3.66 | peak |
| 2 | 15900.000 | 45.18 | 6.48 | 51.66 | 54.00 | -2.34 | peak |



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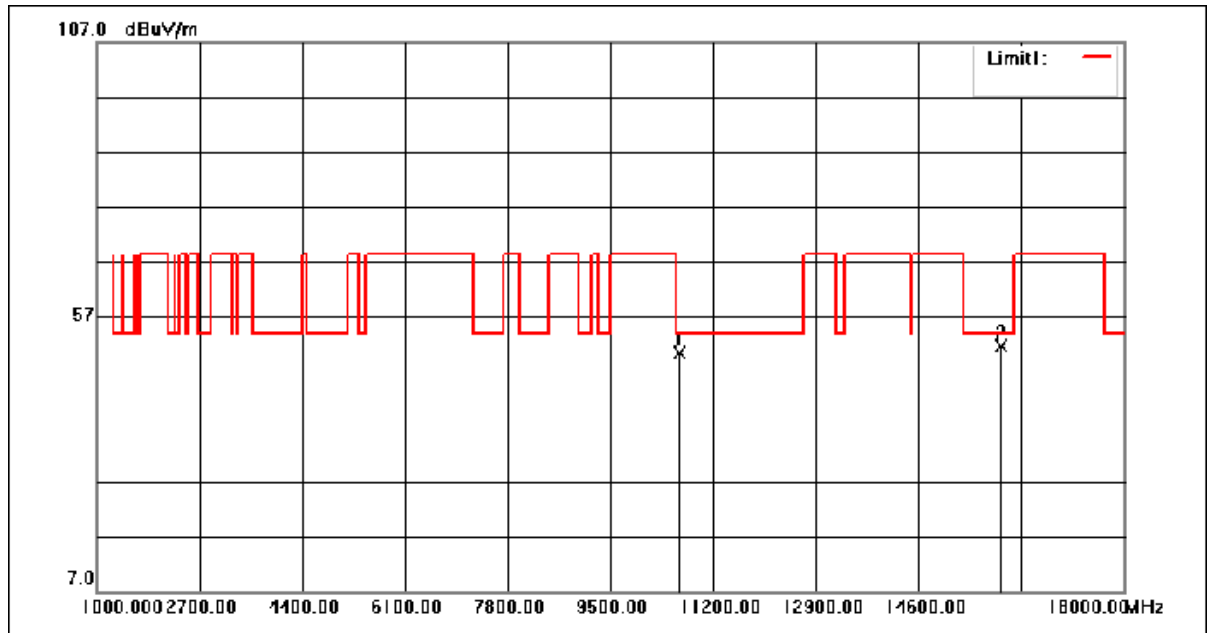
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10600.000 | 49.96 | 0.46 | 50.42 | 54.00 | -3.58 | peak |
| 2 | 15900.000 | 45.31 | 6.48 | 51.79 | 54.00 | -2.21 | peak |



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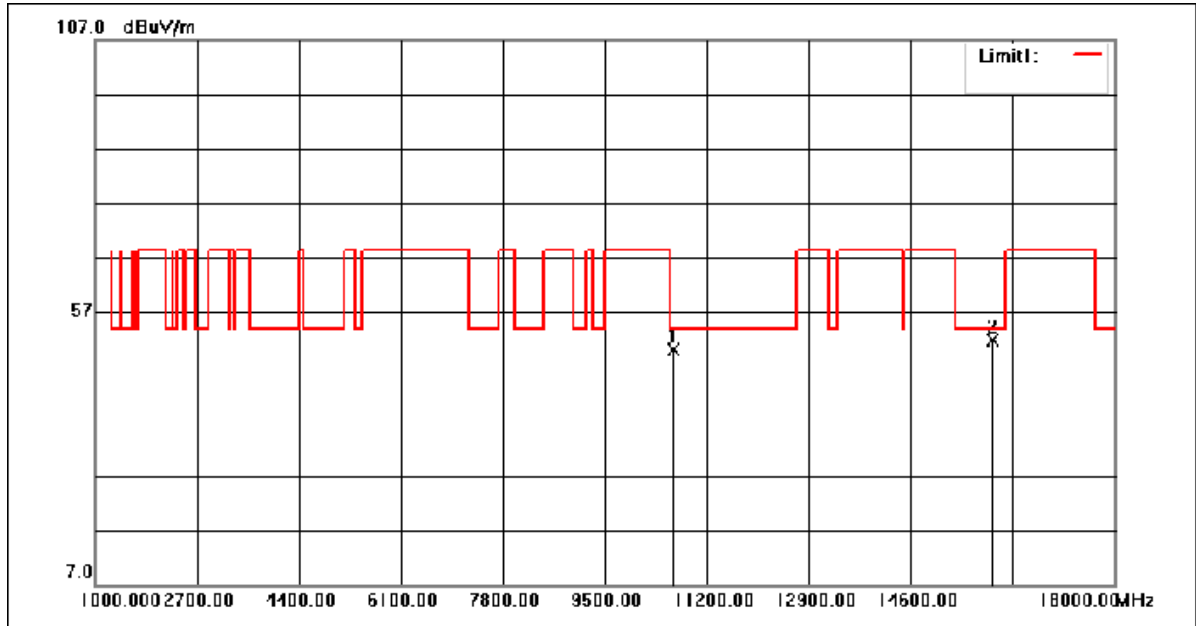
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10640.000 | 49.94 | 0.46 | 50.40 | 54.00 | -3.60 | peak |
| 2 | 15960.000 | 44.91 | 6.60 | 51.51 | 54.00 | -2.49 | peak |



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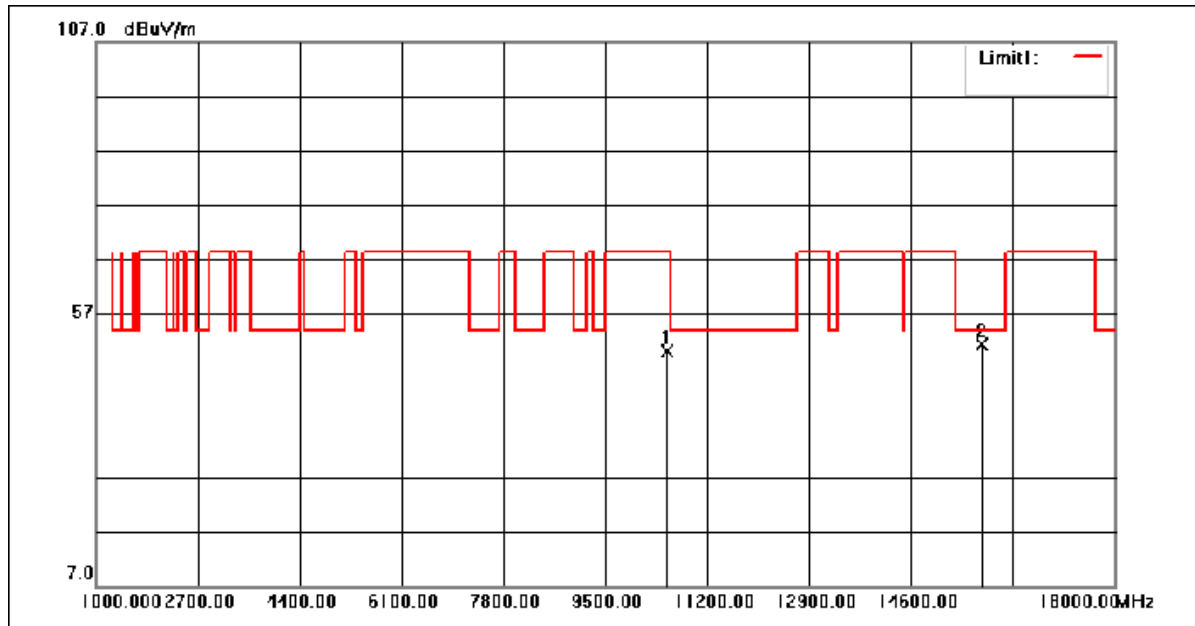
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10640.000 | 49.66 | 0.46 | 50.12 | 54.00 | -3.88 | peak |
| 2 | 15960.000 | 45.32 | 6.60 | 51.92 | 54.00 | -2.08 | peak |



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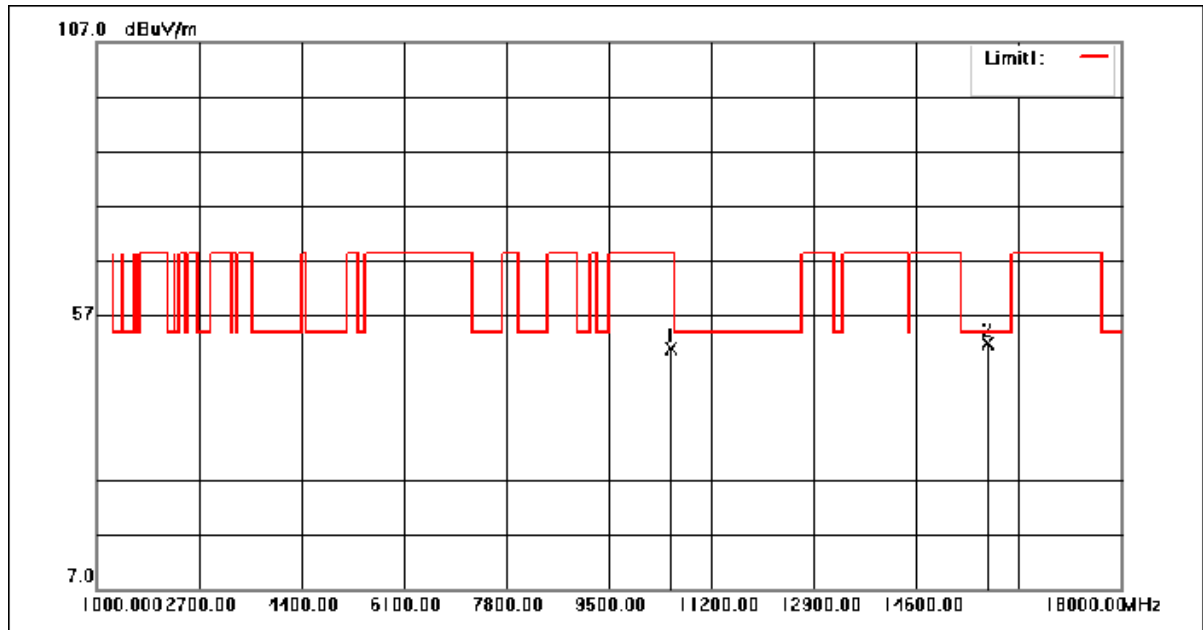
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10520.000 | 49.65 | 0.44 | 50.09 | 68.30 | -18.21 | peak |
| 2 | 15780.000 | 45.20 | 6.23 | 51.43 | 54.00 | -2.57 | peak |



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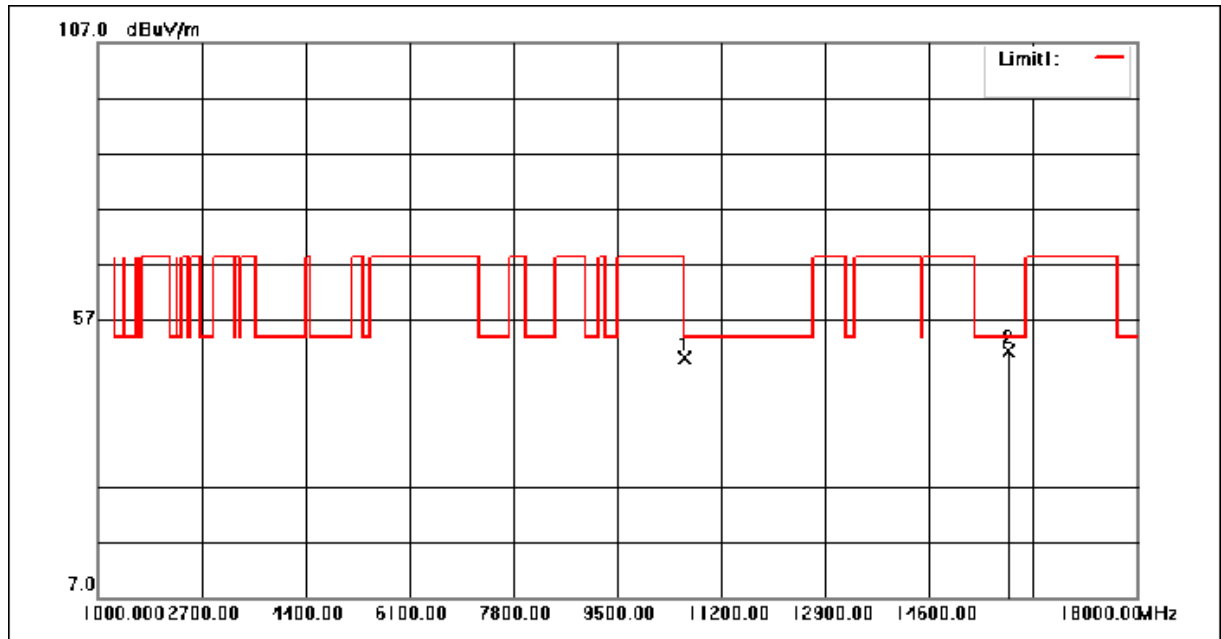
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10520.000 | 50.35 | 0.44 | 50.79 | 68.30 | -17.51 | peak |
| 2 | 15780.000 | 45.55 | 6.23 | 51.78 | 54.00 | -2.22 | peak |



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



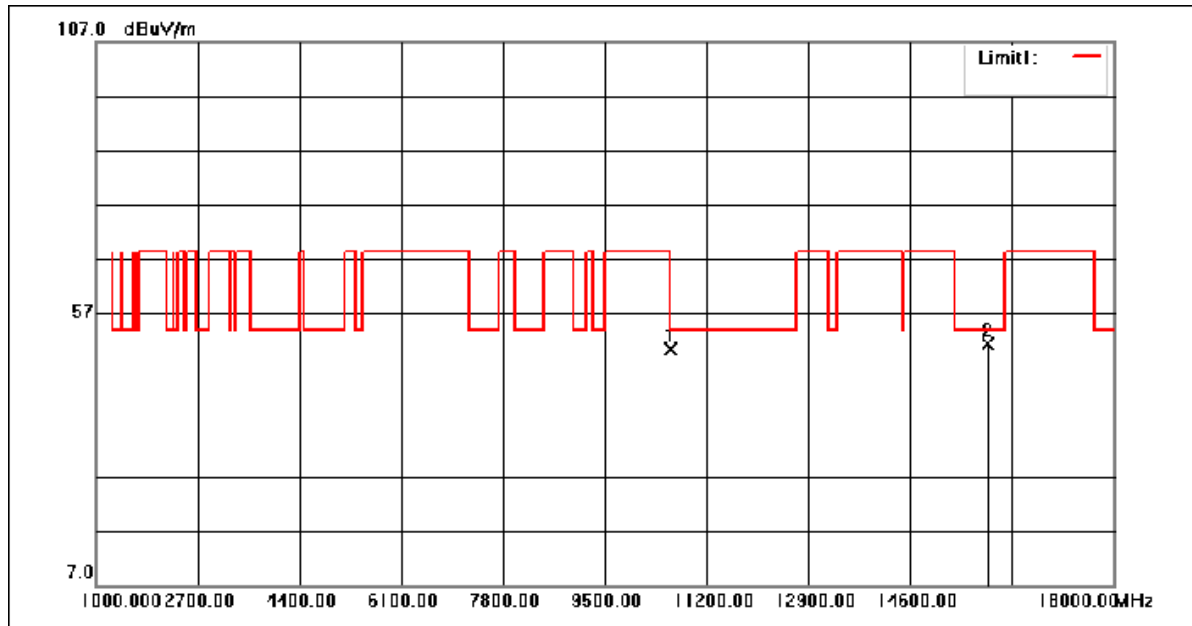
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10600.000 | 49.72 | 0.46 | 50.18 | 54.00 | -3.82 | peak |
| 2 | 15900.000 | 45.01 | 6.48 | 51.49 | 54.00 | -2.51 | peak |



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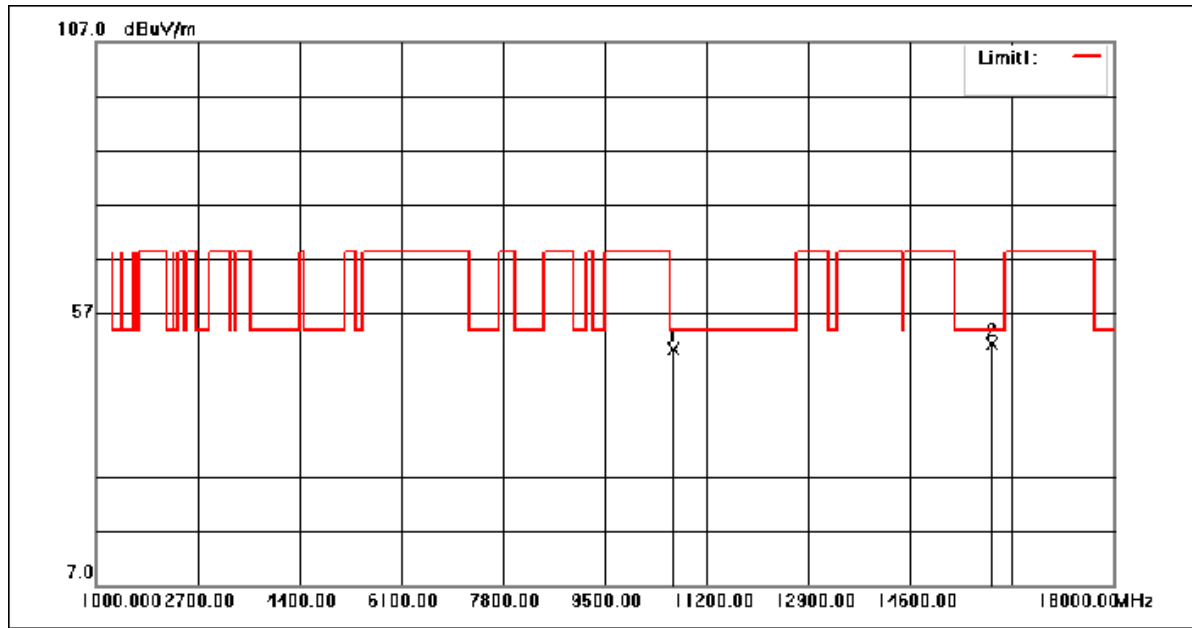
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10600.000 | 49.80 | 0.46 | 50.26 | 54.00 | -3.74 | peak |
| 2 | 15900.000 | 44.85 | 6.48 | 51.33 | 54.00 | -2.67 | peak |



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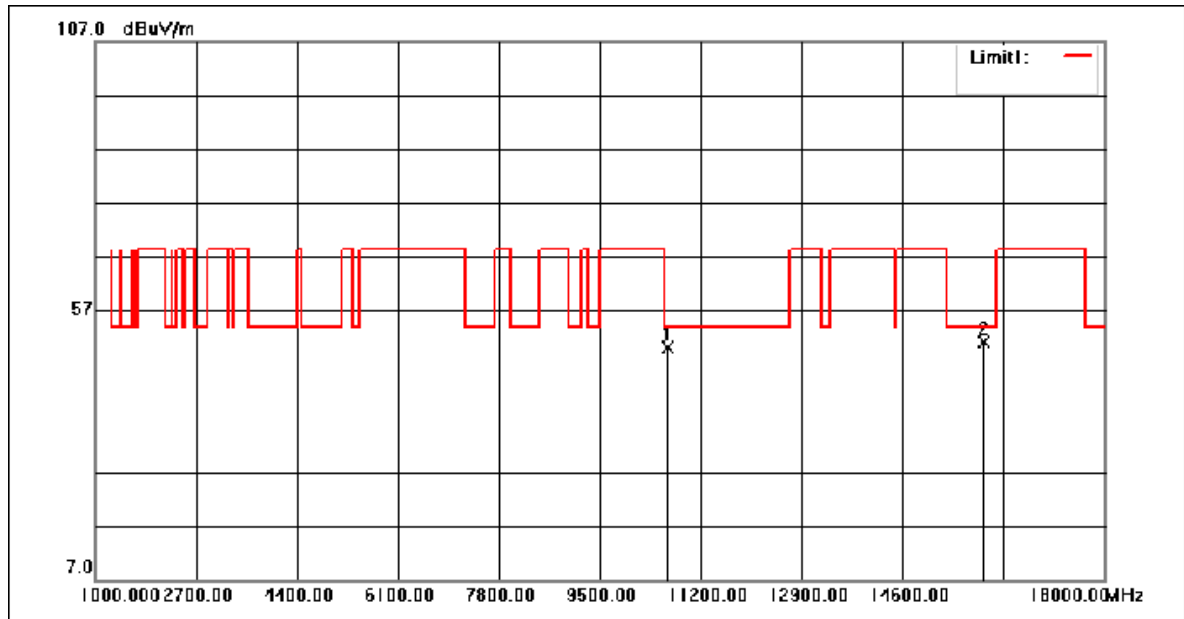
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10640.000 | 49.81 | 0.46 | 50.27 | 54.00 | -3.73 | peak |
| 2 | 15960.000 | 44.88 | 6.60 | 51.48 | 54.00 | -2.52 | peak |



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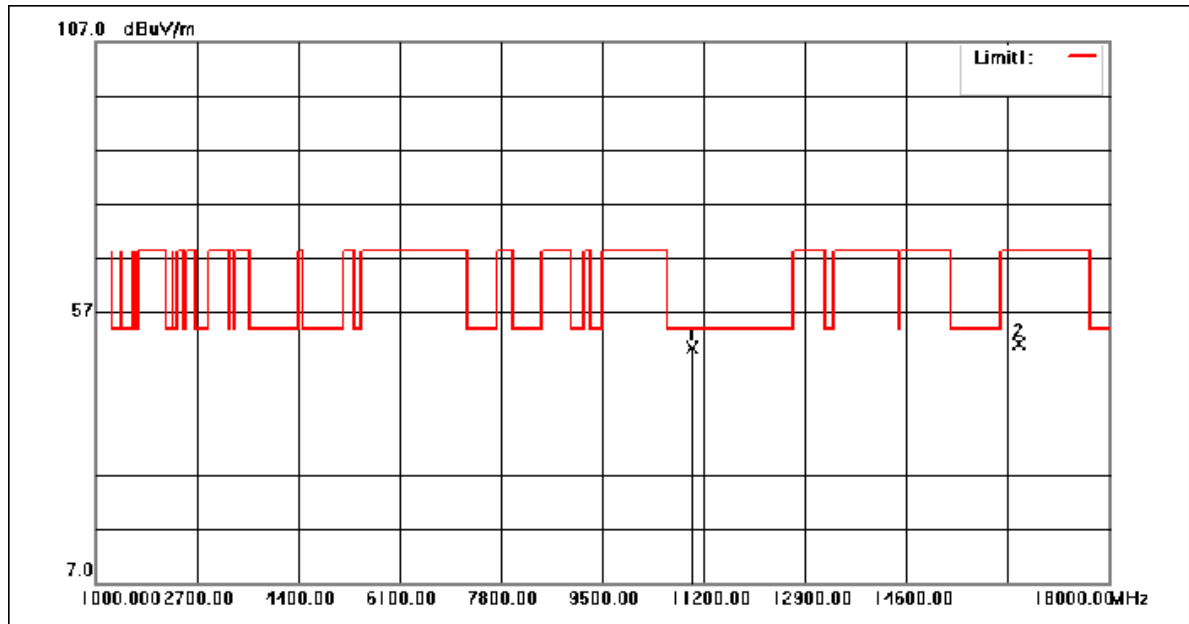
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 10640.000 | 49.63 | 0.46 | 50.09 | 54.00 | -3.91 | peak |
| 2 | 15960.000 | 44.54 | 6.60 | 51.14 | 54.00 | -2.86 | peak |



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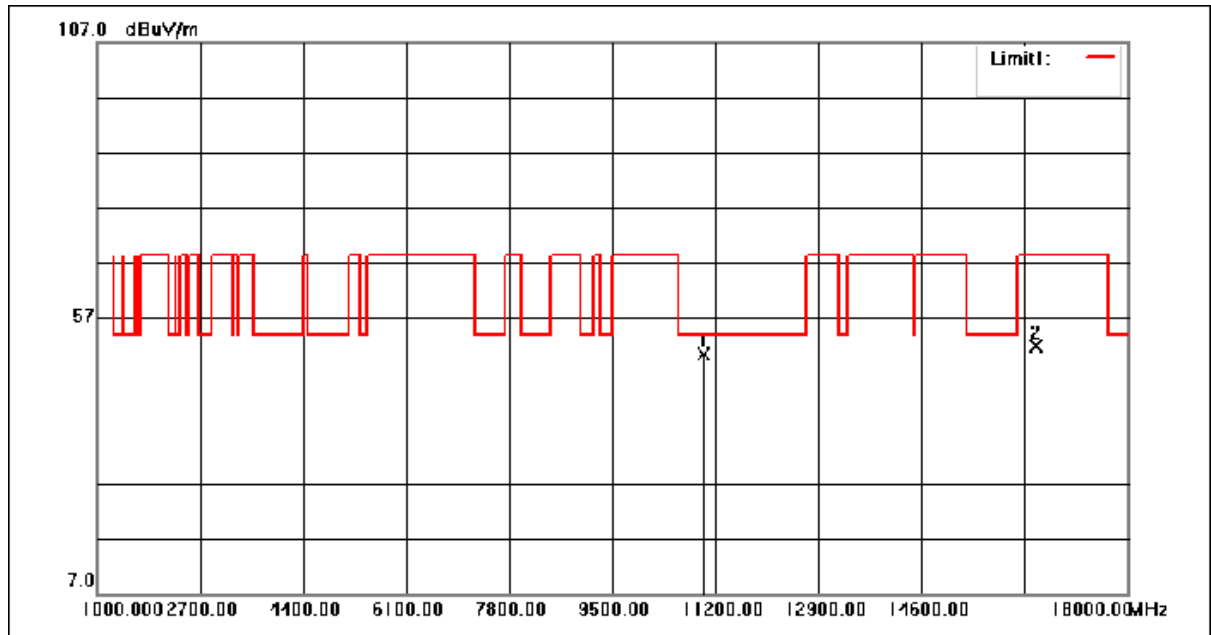
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11000.000 | 49.85 | 0.54 | 50.39 | 54.00 | -3.61 | peak |
| 2 | 16500.000 | 42.72 | 8.43 | 51.15 | 68.30 | -17.15 | peak |



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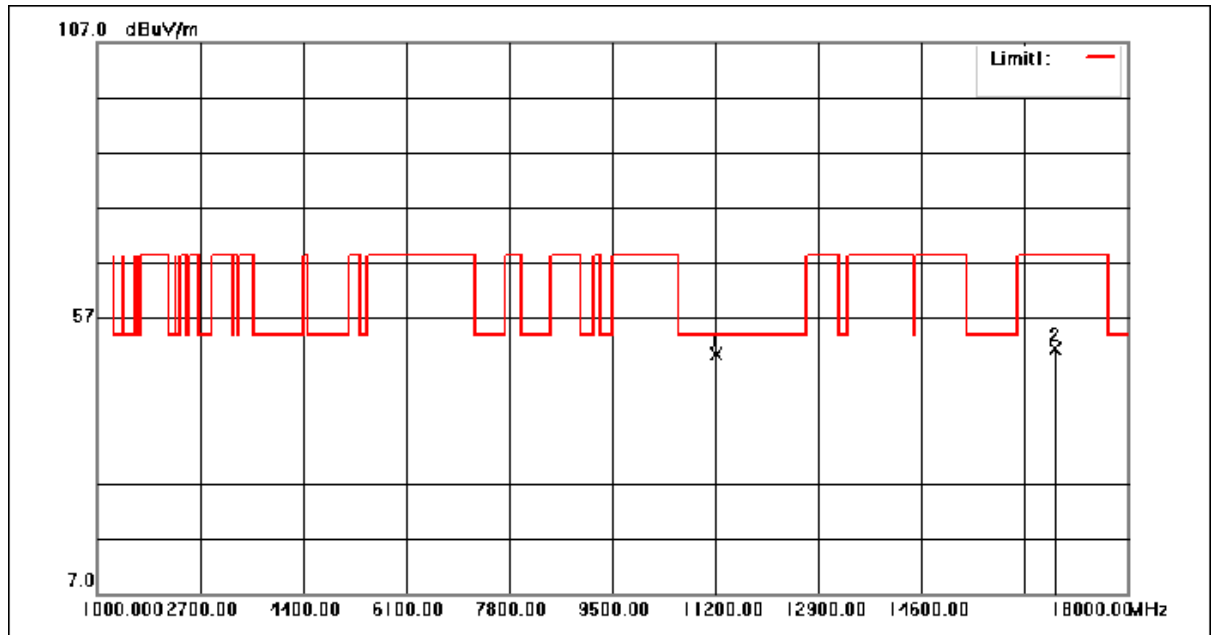
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11000.000 | 49.87 | 0.54 | 50.41 | 54.00 | -3.59 | peak |
| 2 | 16500.000 | 43.37 | 8.43 | 51.80 | 68.30 | -16.50 | peak |



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Mode: d; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: middle



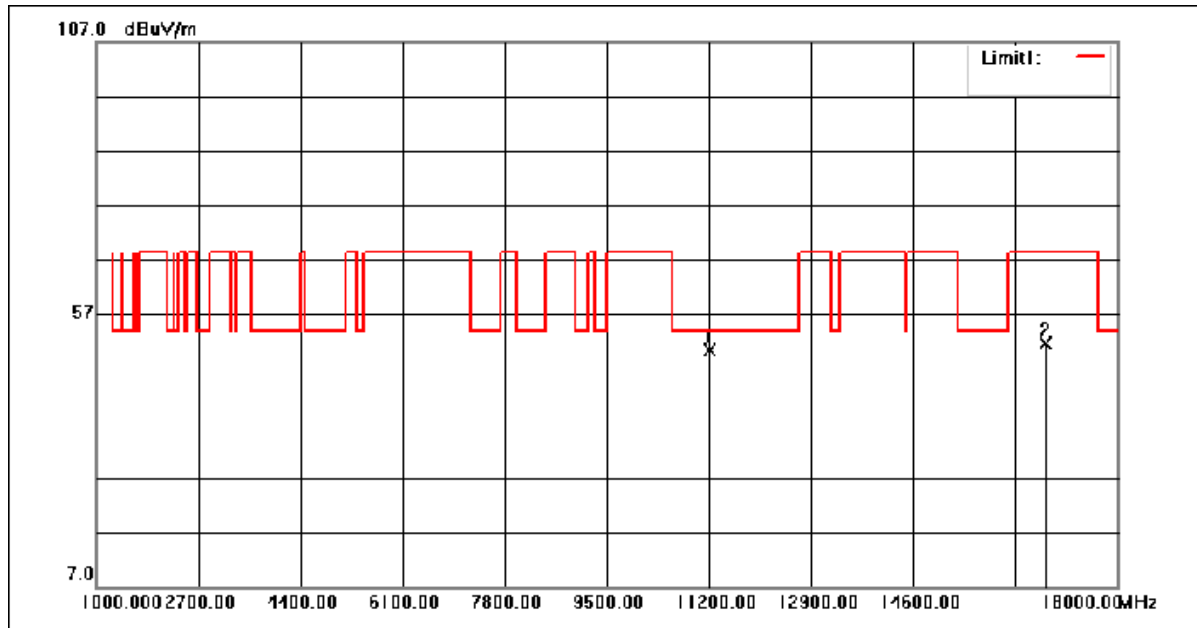
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11200.000 | 49.56 | 0.71 | 50.27 | 54.00 | -3.73 | peak |
| 2 | 16800.000 | 42.45 | 8.89 | 51.34 | 68.30 | -16.96 | peak |



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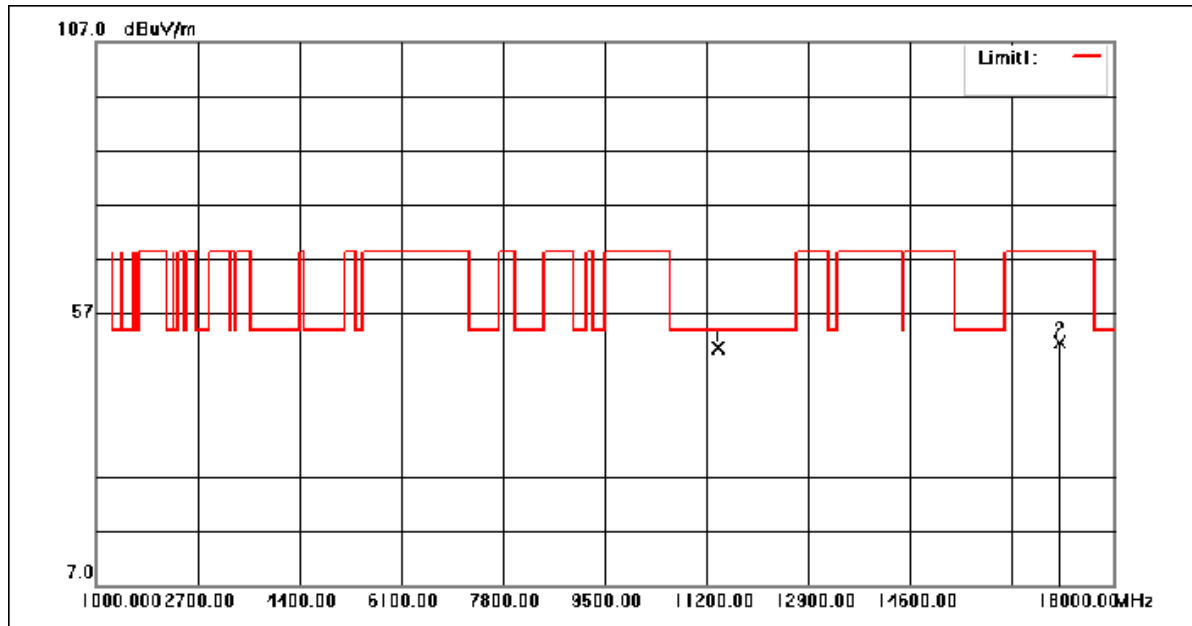
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11200.000 | 49.77 | 0.71 | 50.48 | 54.00 | -3.52 | peak |
| 2 | 16800.000 | 42.67 | 8.89 | 51.56 | 68.30 | -16.74 | peak |



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Mode: d; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: High



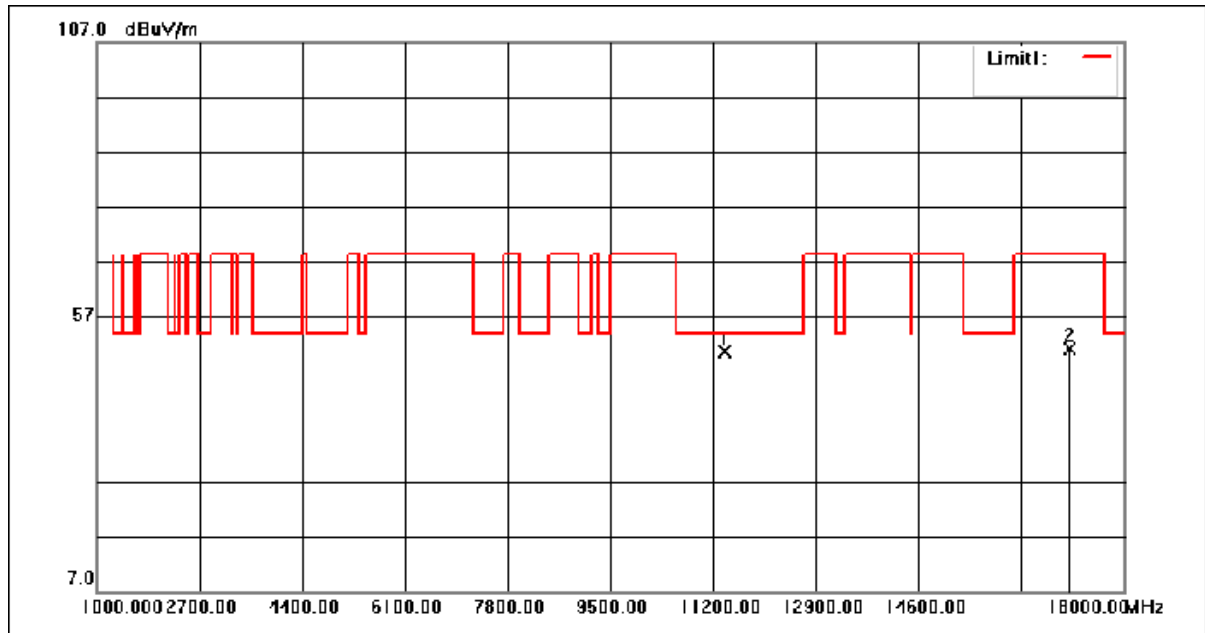
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11400.000 | 49.81 | 0.87 | 50.68 | 54.00 | -3.32 | peak |
| 2 | 17100.000 | 42.58 | 9.13 | 51.71 | 68.30 | -16.59 | peak |



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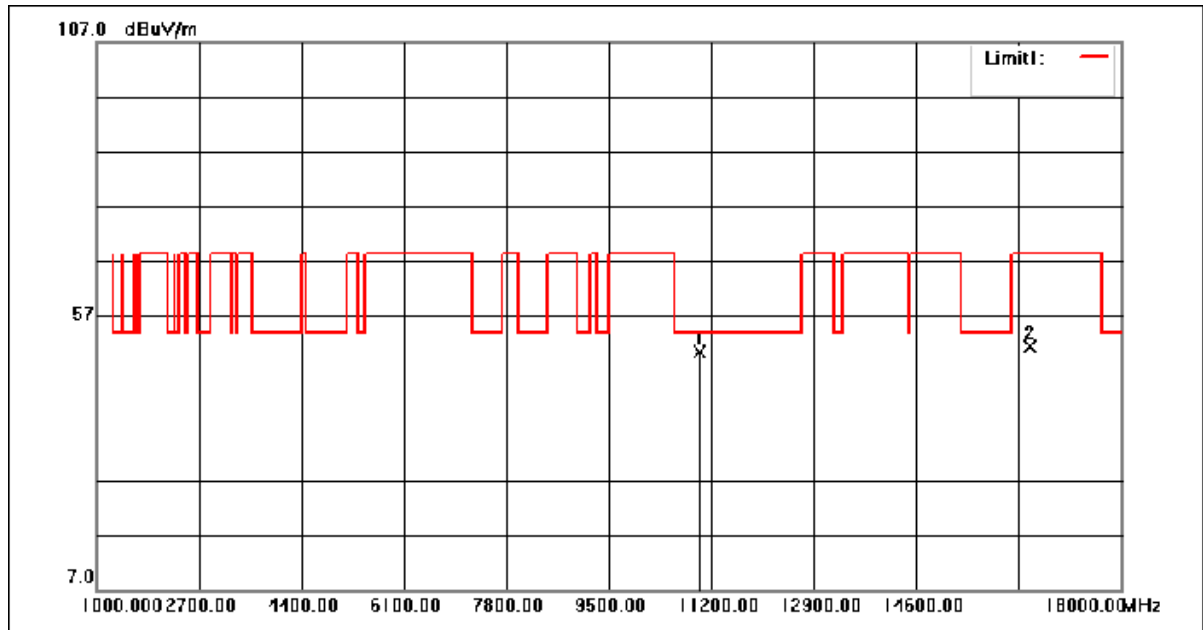
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11400.000 | 49.69 | 0.87 | 50.56 | 54.00 | -3.44 | peak |
| 2 | 17100.000 | 42.12 | 9.13 | 51.25 | 68.30 | -17.05 | peak |



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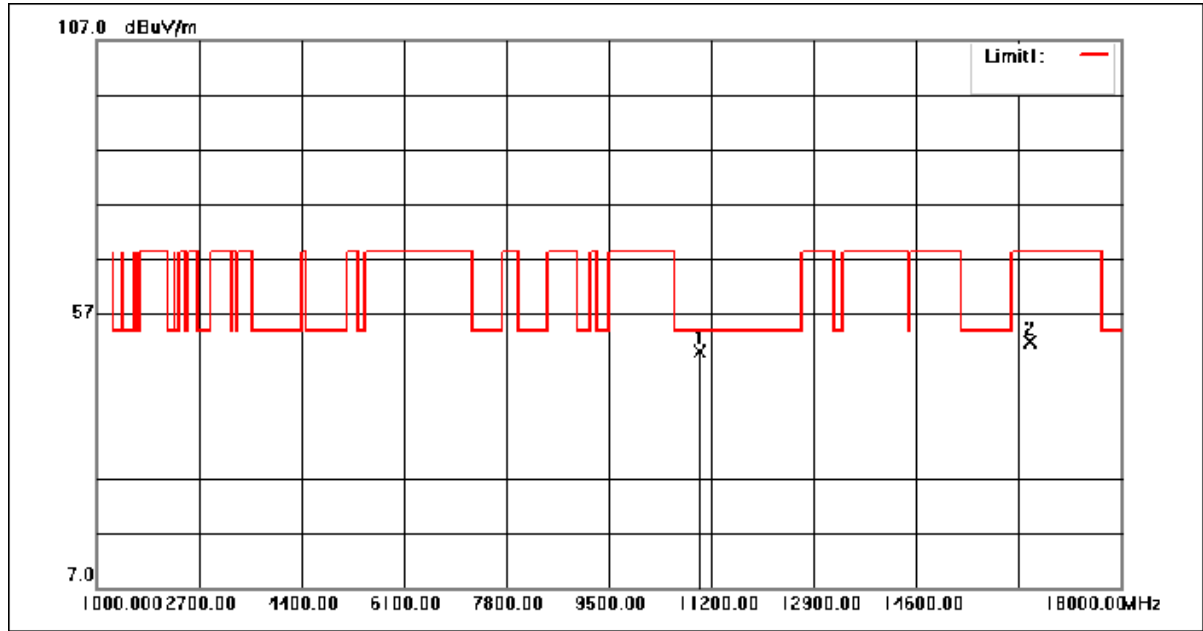
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11000.000 | 49.82 | 0.54 | 50.36 | 54.00 | -3.64 | peak |
| 2 | 16500.000 | 42.85 | 8.43 | 51.28 | 68.30 | -17.02 | peak |



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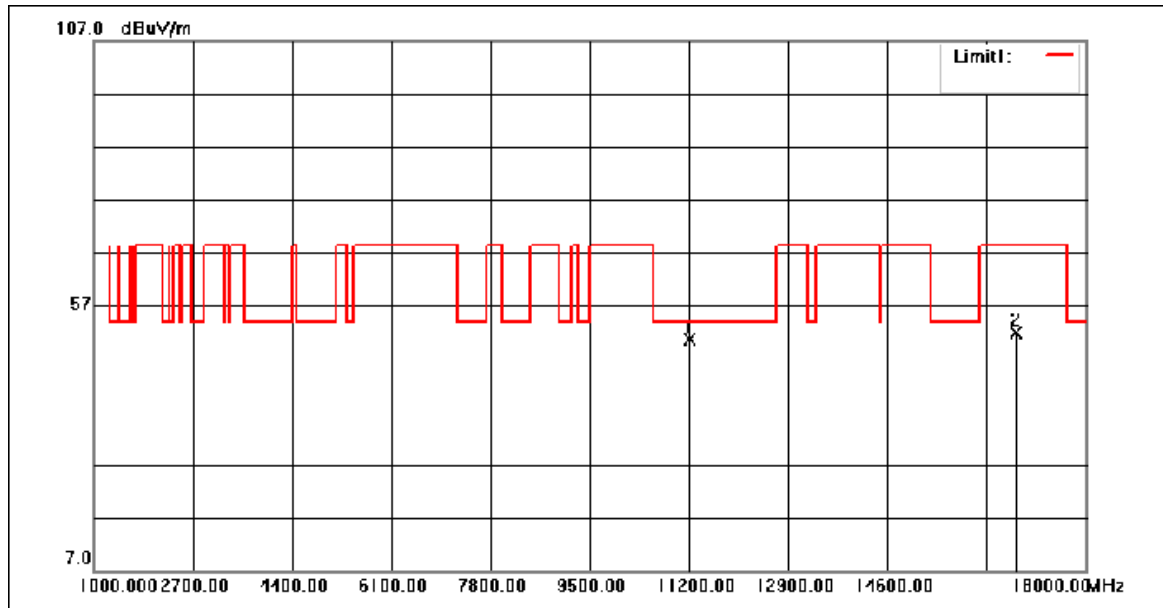
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11000.000 | 49.67 | 0.54 | 50.21 | 54.00 | -3.79 | peak |
| 2 | 16500.000 | 43.50 | 8.43 | 51.93 | 68.30 | -16.37 | peak |



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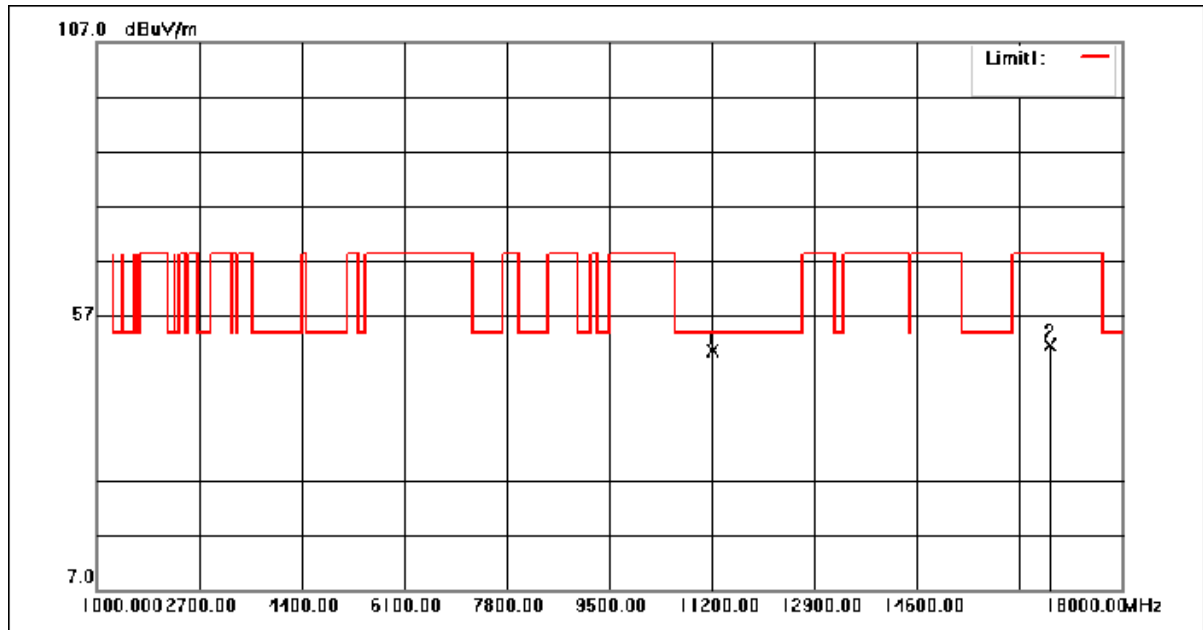
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11200.000 | 49.92 | 0.71 | 50.63 | 54.00 | -3.37 | peak |
| 2 | 16800.000 | 43.06 | 8.89 | 51.95 | 68.30 | -16.35 | peak |



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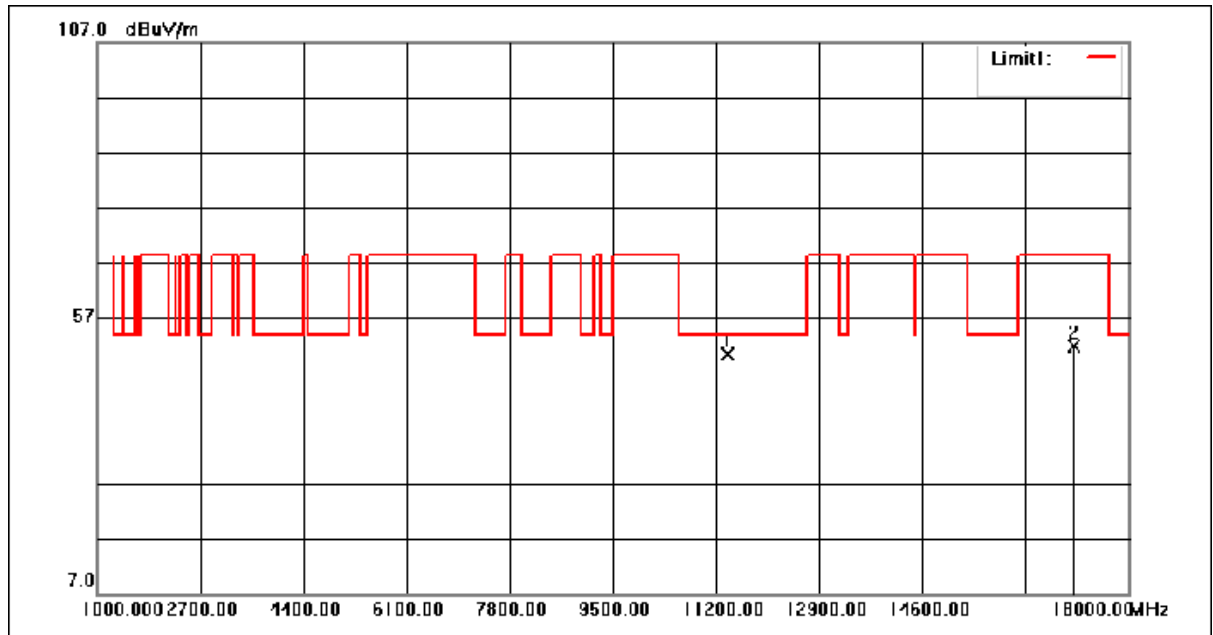
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11200.000 | 49.93 | 0.71 | 50.64 | 54.00 | -3.36 | peak |
| 2 | 16800.000 | 42.86 | 8.89 | 51.75 | 68.30 | -16.55 | peak |



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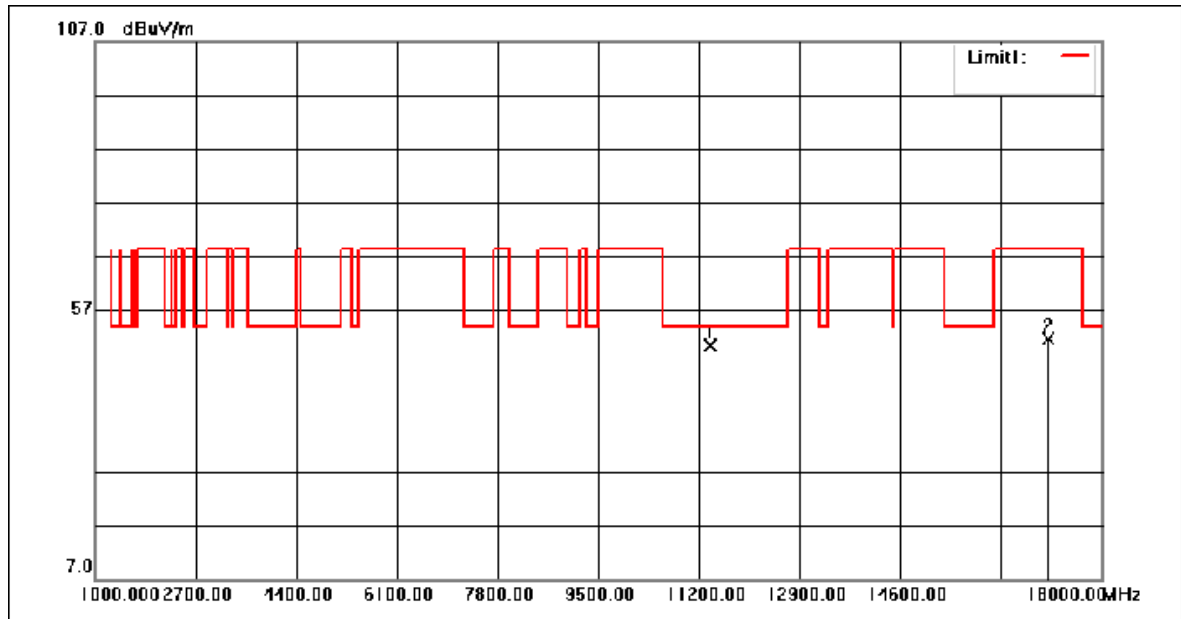
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11400.000 | 49.49 | 0.87 | 50.36 | 54.00 | -3.64 | peak |
| 2 | 17100.000 | 42.72 | 9.13 | 51.85 | 68.30 | -16.45 | peak |



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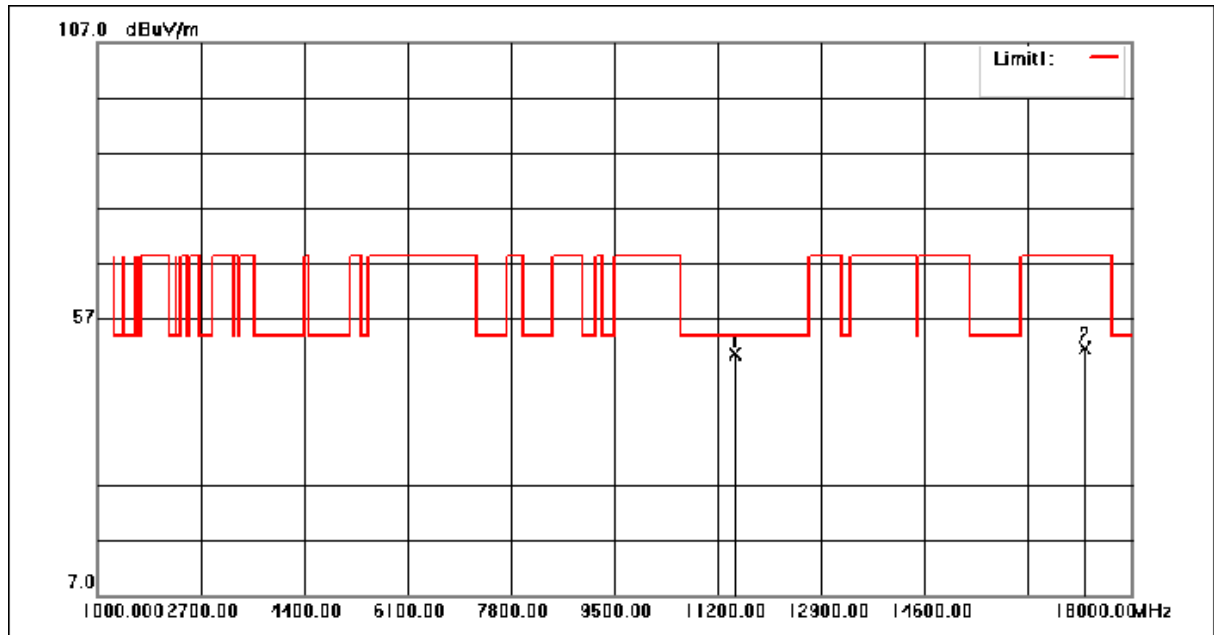
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11400.000 | 49.42 | 0.87 | 50.29 | 54.00 | -3.71 | peak |
| 2 | 17100.000 | 42.45 | 9.13 | 51.58 | 68.30 | -16.72 | peak |



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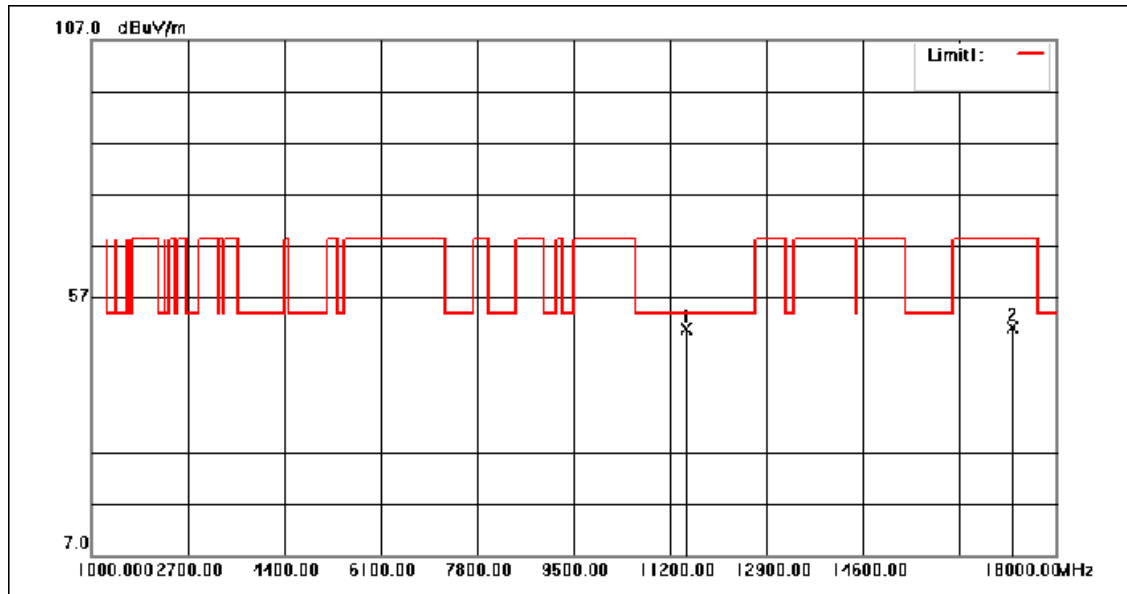
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11490.000 | 49.67 | 0.94 | 50.61 | 54.00 | -3.39 | peak |
| 2 | 17235.000 | 42.50 | 9.05 | 51.55 | 68.30 | -16.75 | peak |



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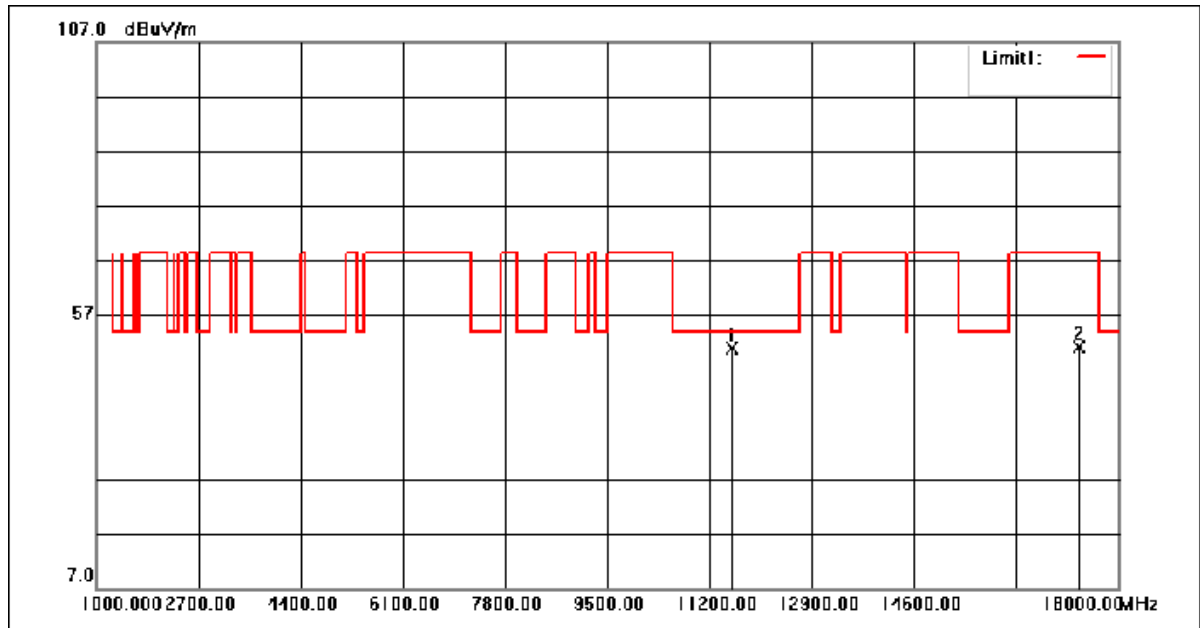
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11490.000 | 49.99 | 0.94 | 50.93 | 54.00 | -3.07 | peak |
| 2 | 17235.000 | 42.12 | 9.05 | 51.17 | 68.30 | -17.13 | peak |



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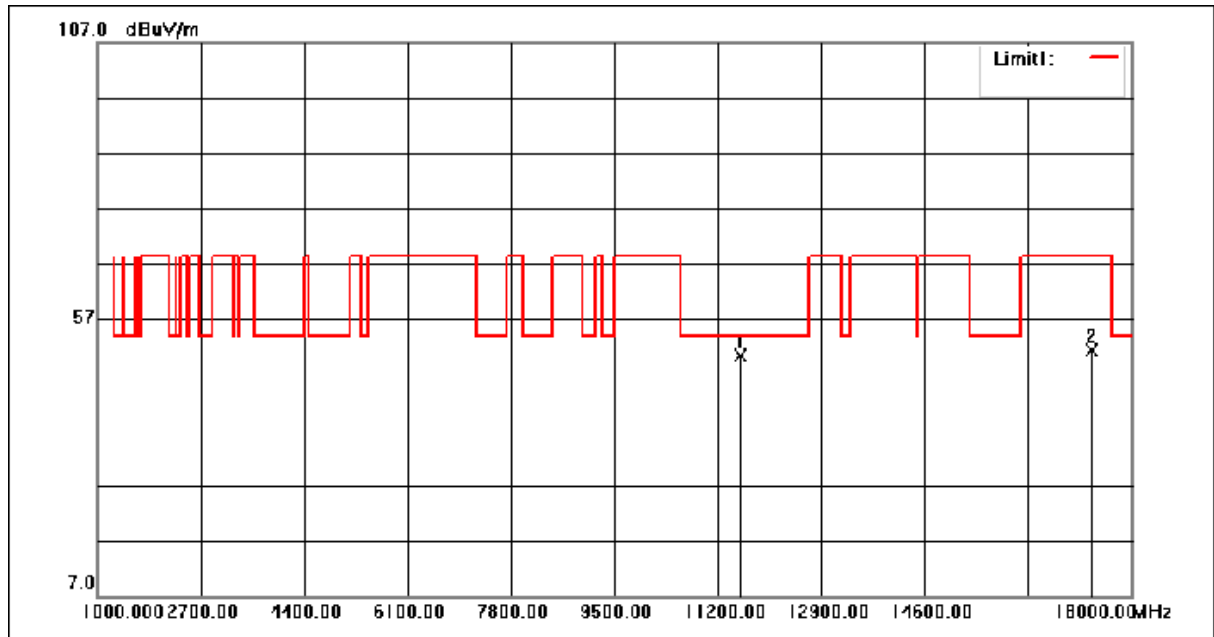
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11570.000 | 49.58 | 1.18 | 50.76 | 54.00 | -3.24 | peak |
| 2 | 17355.000 | 42.12 | 8.98 | 51.10 | 68.30 | -17.20 | peak |



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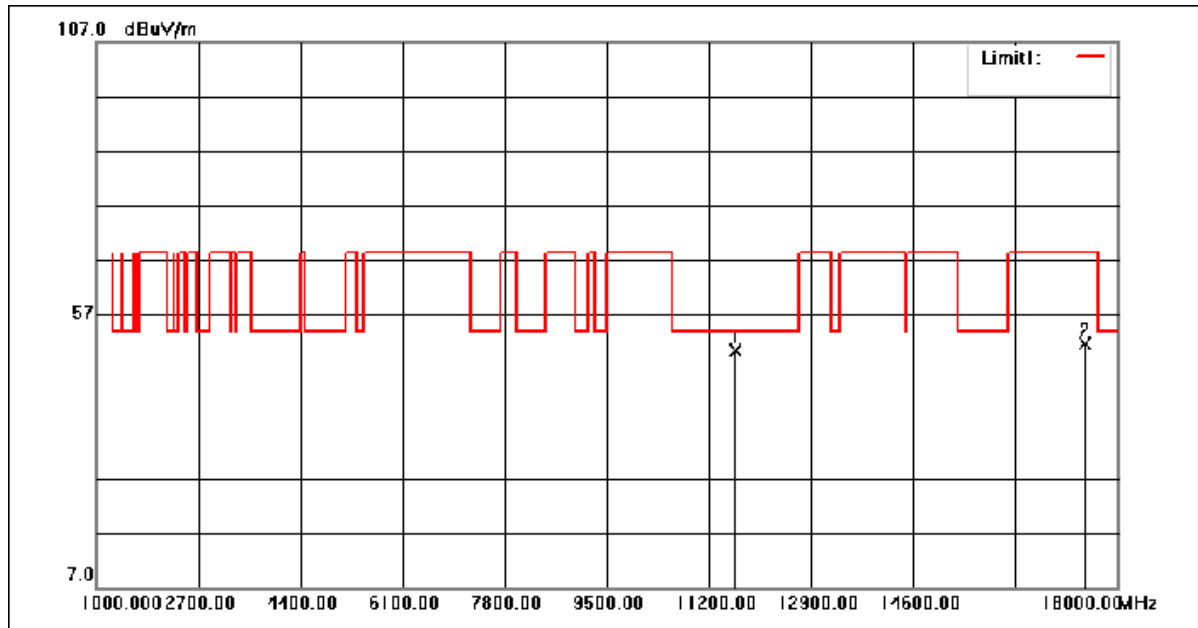
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11570.000 | 49.26 | 1.18 | 50.44 | 54.00 | -3.56 | peak |
| 2 | 17355.000 | 42.31 | 8.98 | 51.29 | 68.30 | -17.01 | peak |



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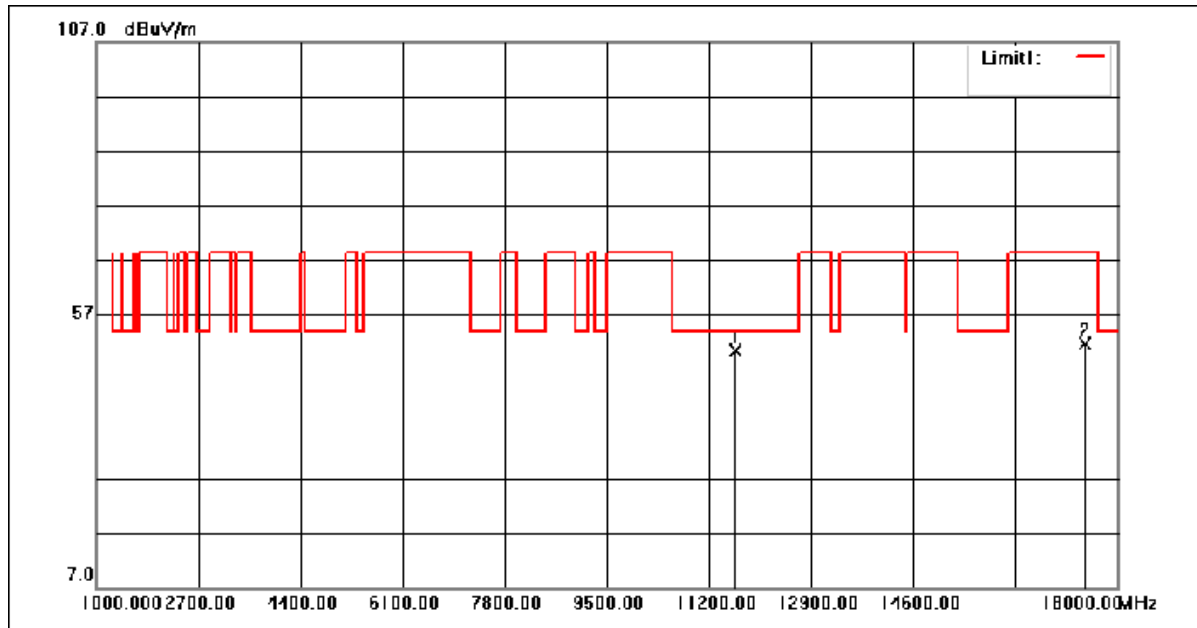
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11650.000 | 49.01 | 1.45 | 50.46 | 54.00 | -3.54 | peak |
| 2 | 17475.000 | 42.75 | 8.90 | 51.65 | 68.30 | -16.65 | peak |



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Mode: e; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: High



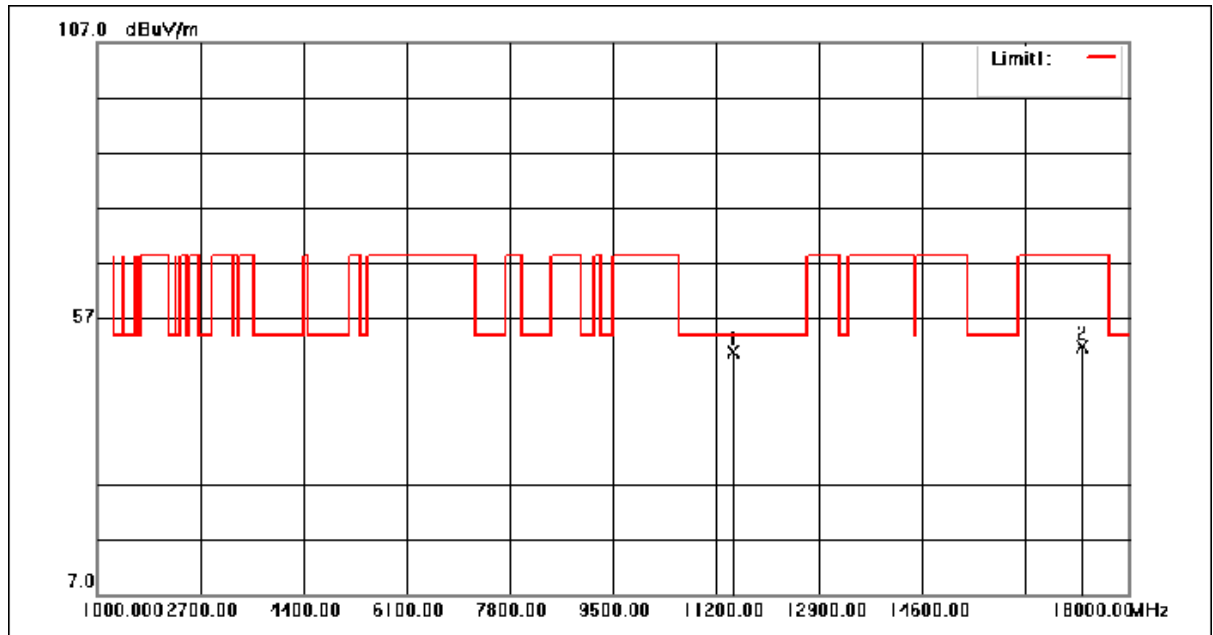
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11650.000 | 48.93 | 1.45 | 50.38 | 54.00 | -3.62 | peak |
| 2 | 17475.000 | 42.66 | 8.90 | 51.56 | 68.30 | -16.74 | peak |



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



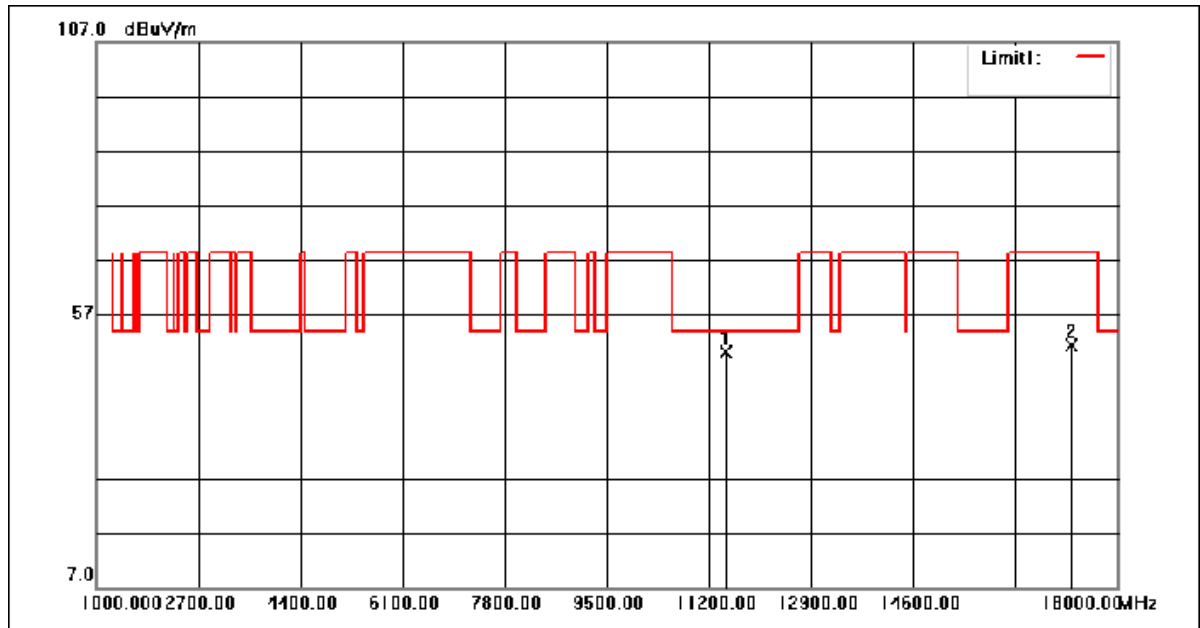
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11490.000 | 50.02 | 0.94 | 50.96 | 54.00 | -3.04 | peak |
| 2 | 17235.000 | 42.79 | 9.05 | 51.84 | 68.30 | -16.46 | peak |



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



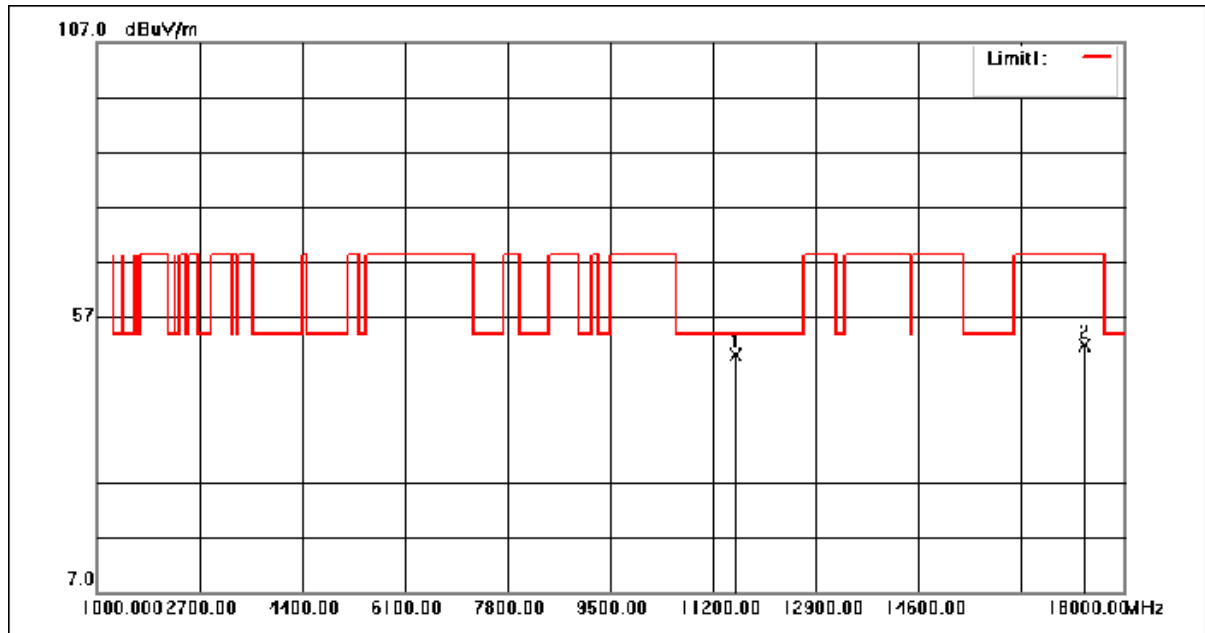
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11490.000 | 49.10 | 0.94 | 50.04 | 54.00 | -3.96 | peak |
| 2 | 17235.000 | 42.42 | 9.05 | 51.47 | 68.30 | -16.83 | peak |



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



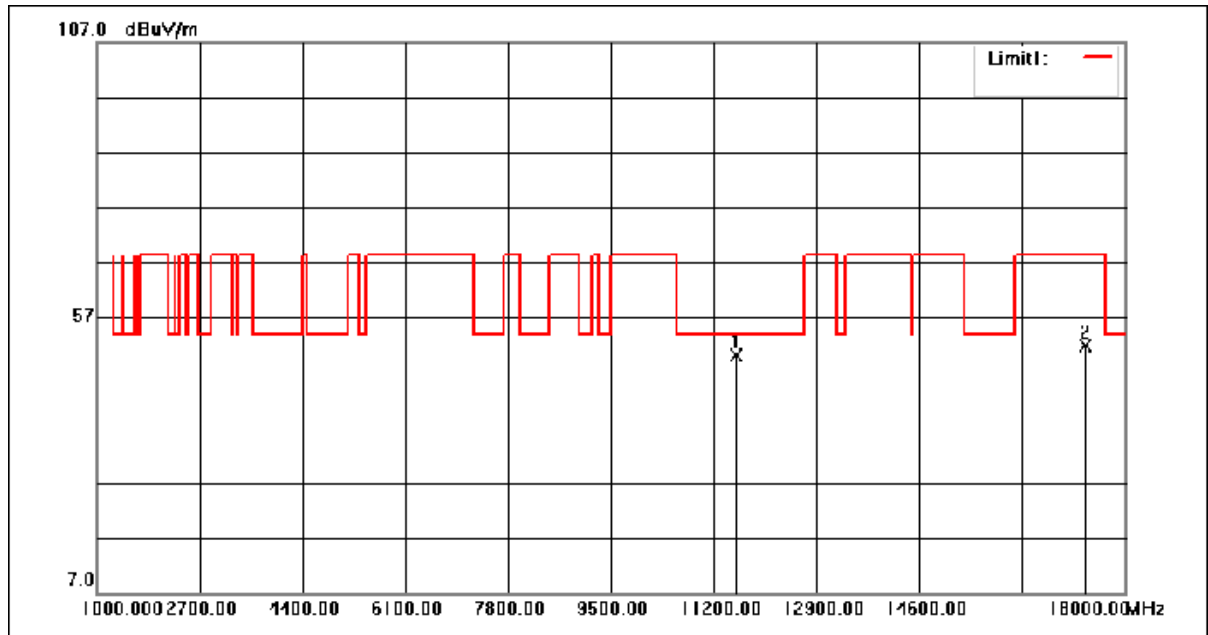
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11570.000 | 48.97 | 1.18 | 50.15 | 54.00 | -3.85 | peak |
| 2 | 17355.000 | 43.01 | 8.98 | 51.99 | 68.30 | -16.31 | peak |



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



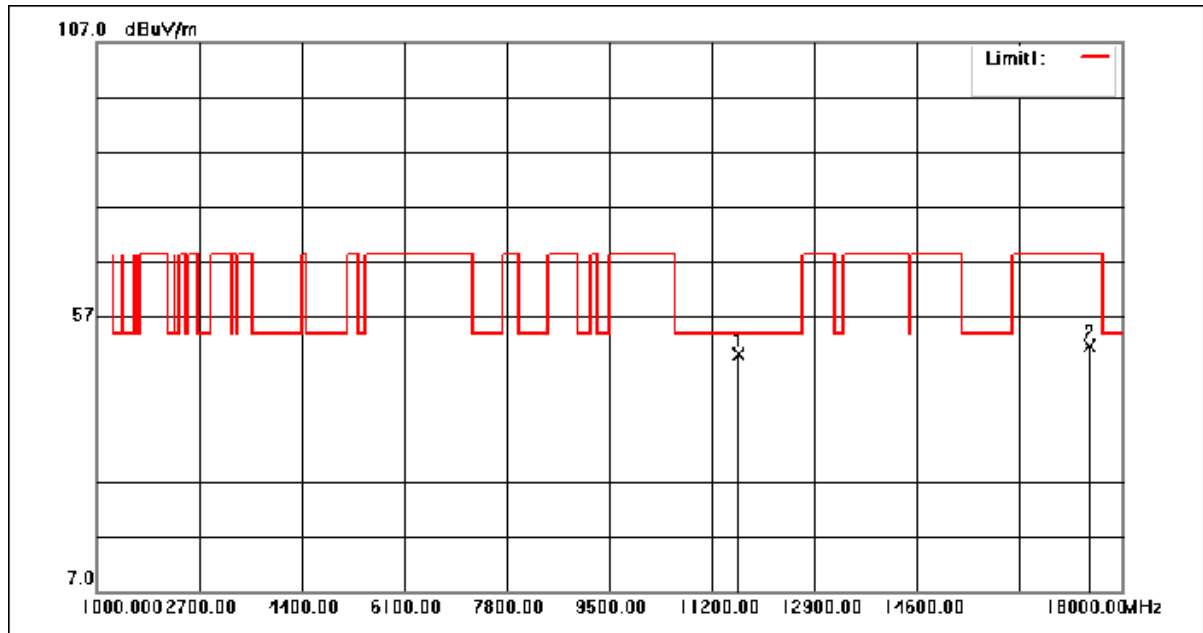
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11570.000 | 49.06 | 1.18 | 50.24 | 54.00 | -3.76 | peak |
| 2 | 17355.000 | 42.80 | 8.98 | 51.78 | 68.30 | -16.52 | peak |



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



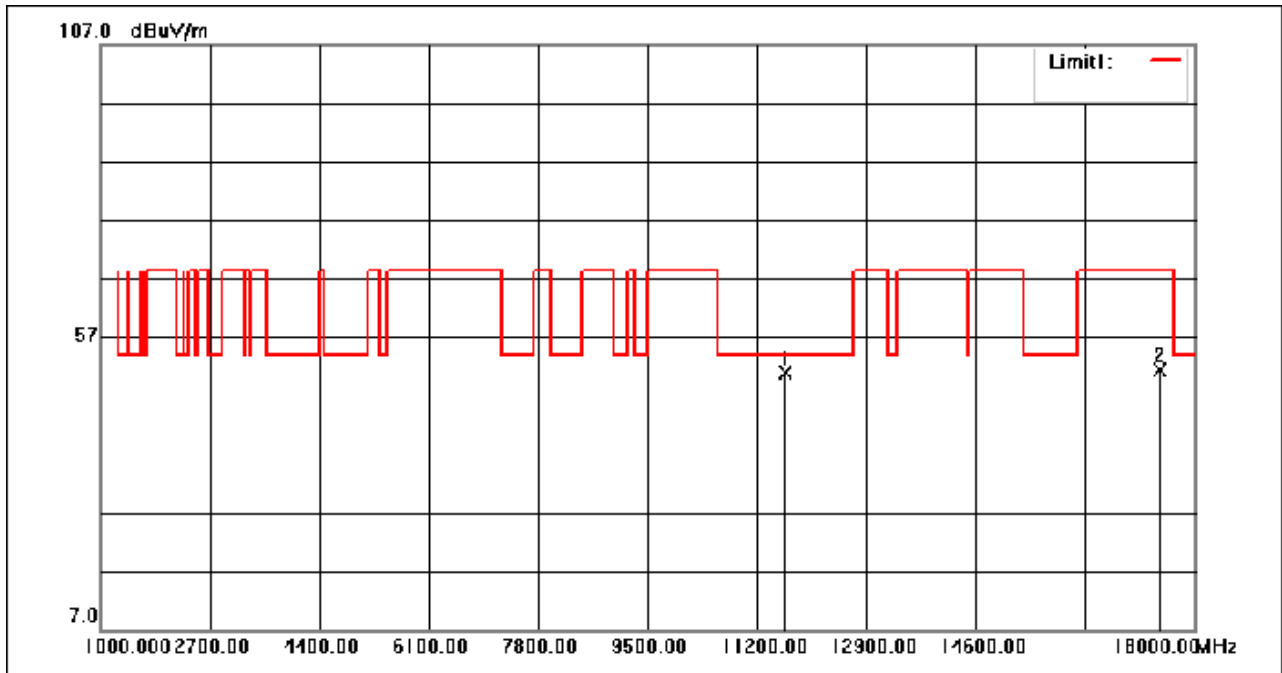
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 11650.000 | 48.62 | 1.45 | 50.07 | 54.00 | -3.93 | peak |
| 2 | 17475.000 | 42.82 | 8.90 | 51.72 | 68.30 | -16.58 | peak |



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Mode: e; Polarization: Vertical; Modulation: n; 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 | 49.41 | 1.45 | 50.86 | 54.00 | -3.14 | peak |
| 2 | 17475.000 | 42.45 | 8.90 | 51.35 | 68.30 | -16.95 | 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 & 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 |

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: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode: b: Charging+TX mode_ (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

c: Charging+TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

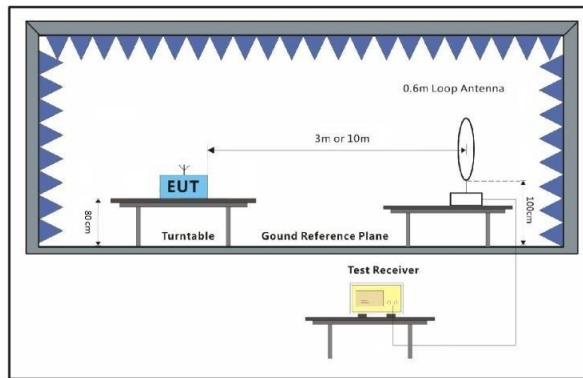
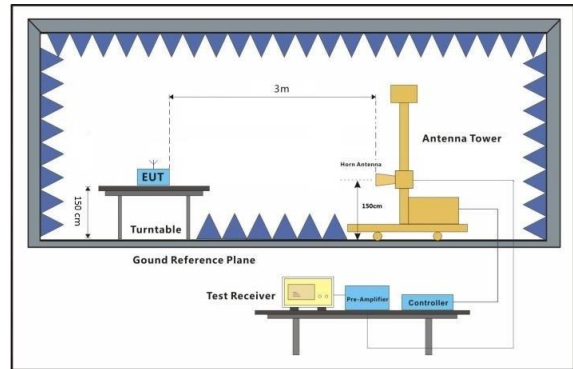
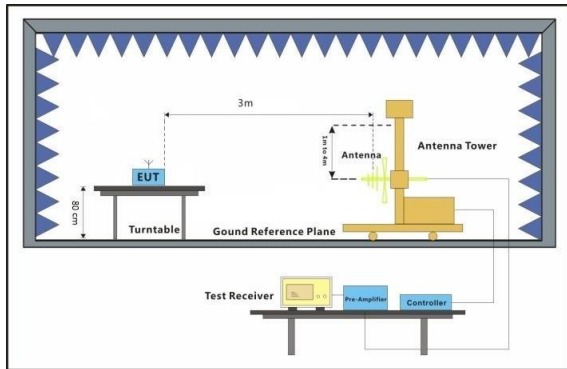
d: Charging+TX mode_ (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

e: Charging+TX mode_ (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.



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7.9.2 Test Setup Diagram



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7.9.3 Measurement Procedure and Data

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

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

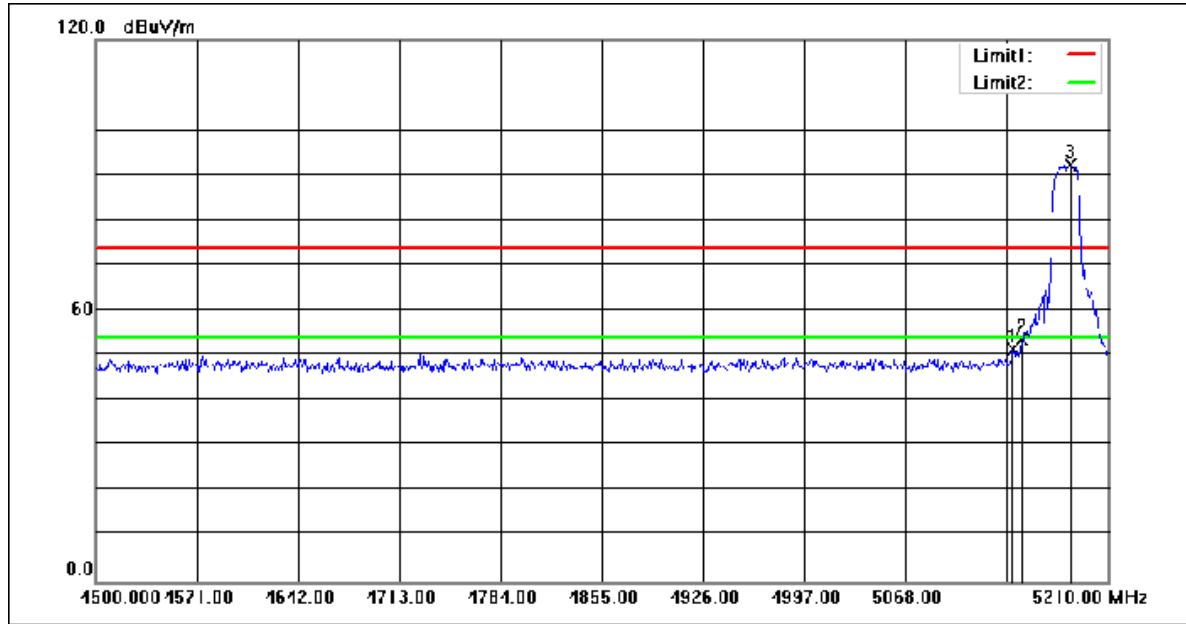
Remark 2: This test item was investigated while operating in TX Ant 1 and TX Ant 2 mode, however, it was determined that Ant 1 operation for a/n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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



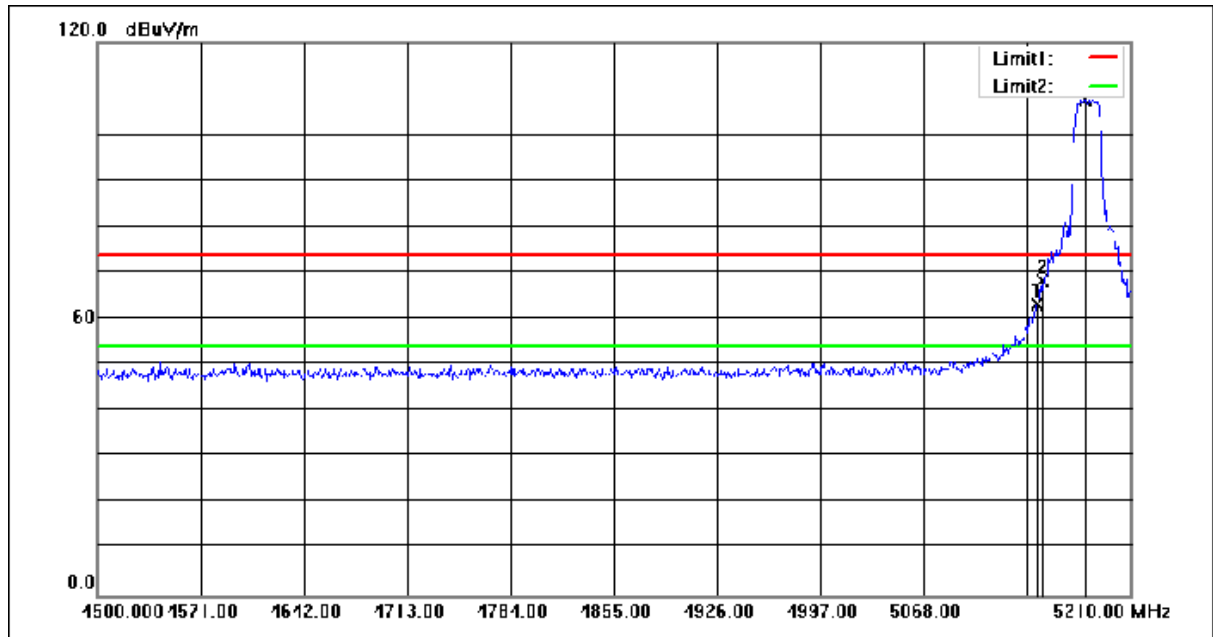
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5143.260 | 59.26 | -7.86 | 51.40 | 74.00 | -22.60 | peak |
| 2 | 5150.000 | 61.39 | -7.84 | 53.55 | 74.00 | -20.45 | peak |
| 3 | 5183.730 | 99.90 | -7.76 | 92.14 | 74.00 | 18.14 | peak |



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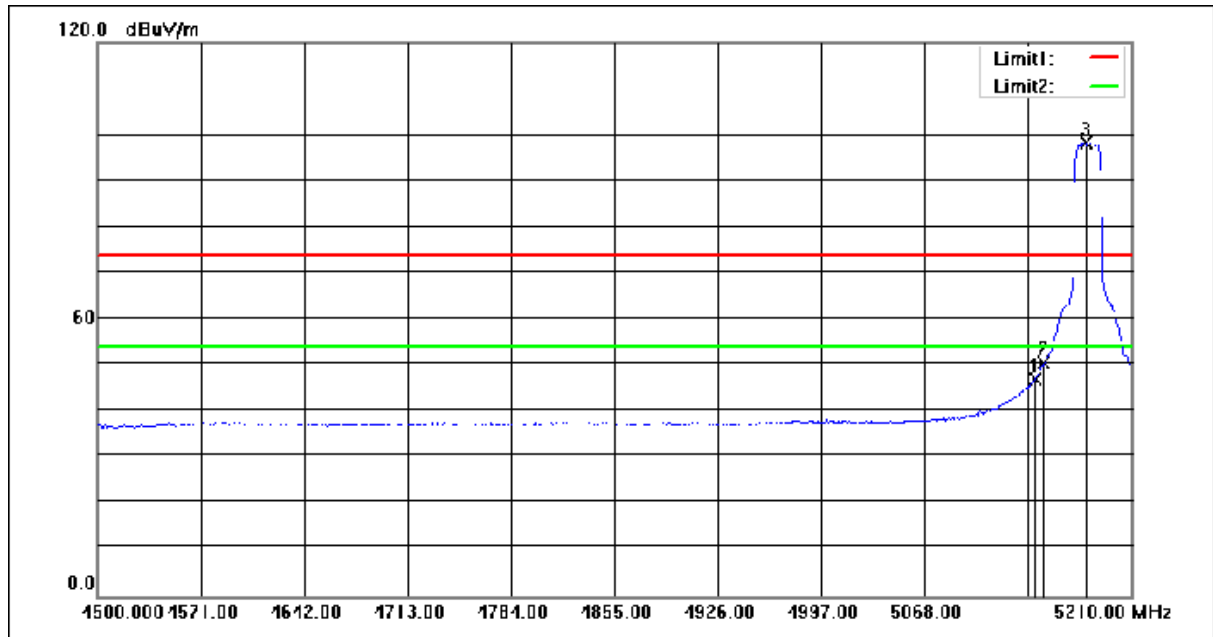
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------------------|-----------------|----------------|-------------|--------|
| 1 | 5146.100 | 71.03 | -7.85 | 63.18 | 74.00 | -10.82 | peak |
| 2 | 5150.000 | 76.12 | -7.84 | 68.28 | 74.00 | -5.72 | peak |
| 3 | 5178.760 | 115.43 | -7.78 | 107.65 | 74.00 | 33.65 | peak |



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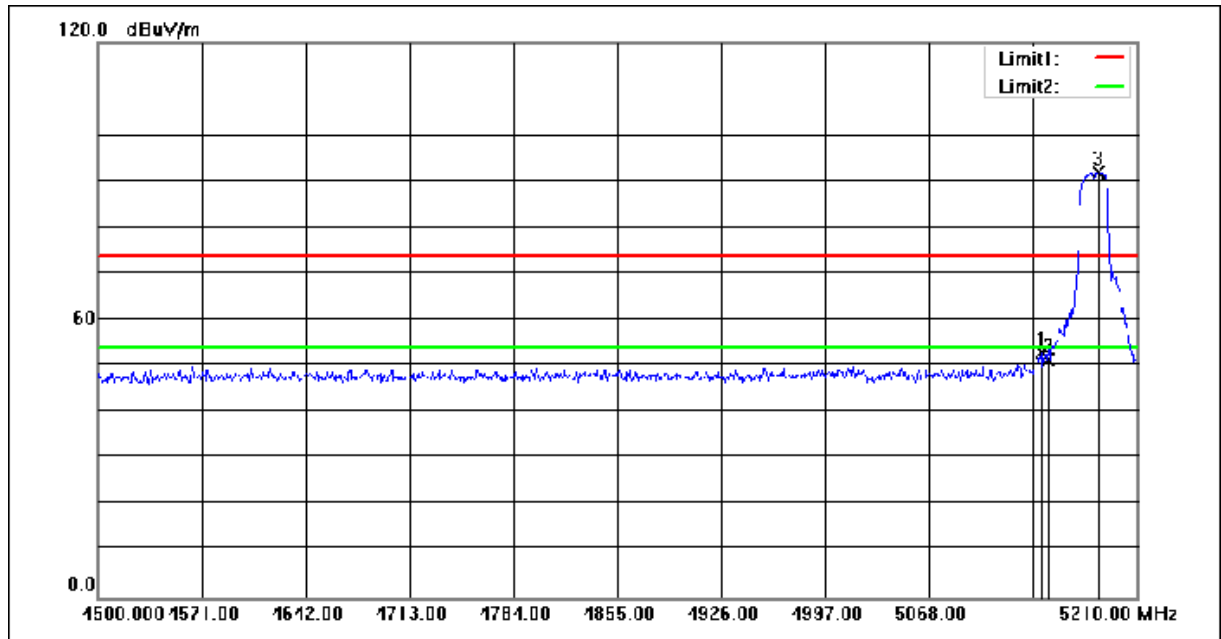
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5143.970 | 54.86 | -7.86 | 47.00 | 54.00 | -7.00 | AVG |
| 2 | 5150.000 | 58.38 | -7.84 | 50.54 | 54.00 | -3.46 | AVG |
| 3 | 5178.760 | 106.01 | -7.78 | 98.23 | 54.00 | 44.23 | AVG |



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



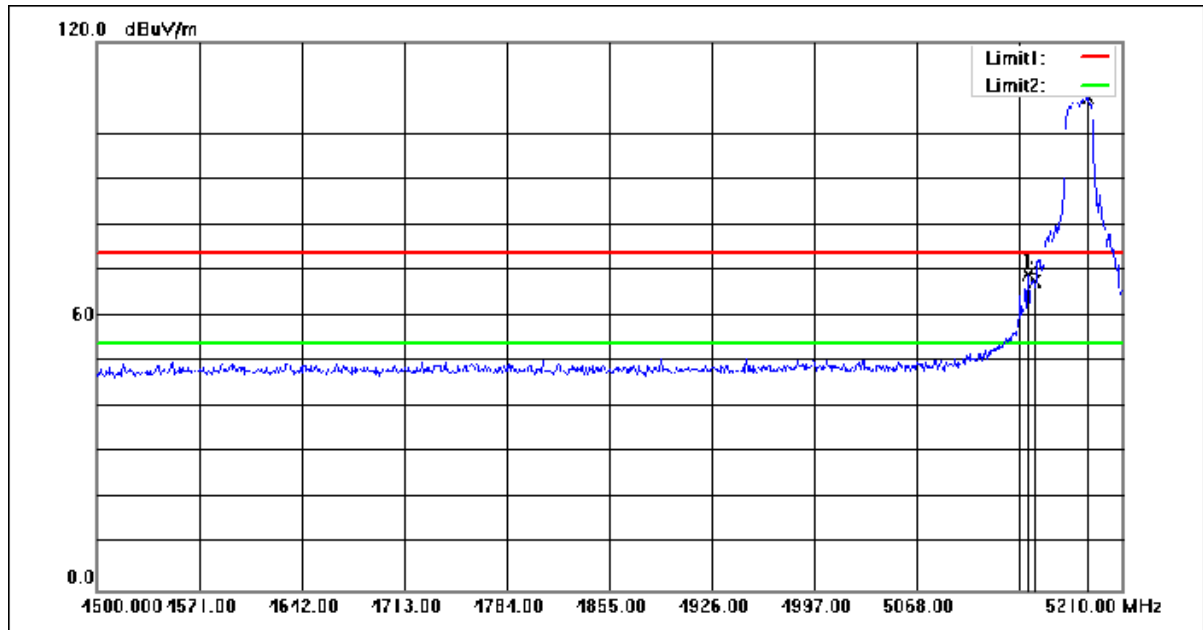
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5144.680 | 60.76 | -7.85 | 52.91 | 74.00 | -21.09 | peak |
| 2 | 5150.000 | 59.43 | -7.84 | 51.59 | 74.00 | -22.41 | peak |
| 3 | 5183.730 | 99.68 | -7.76 | 91.92 | 74.00 | 17.92 | peak |



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



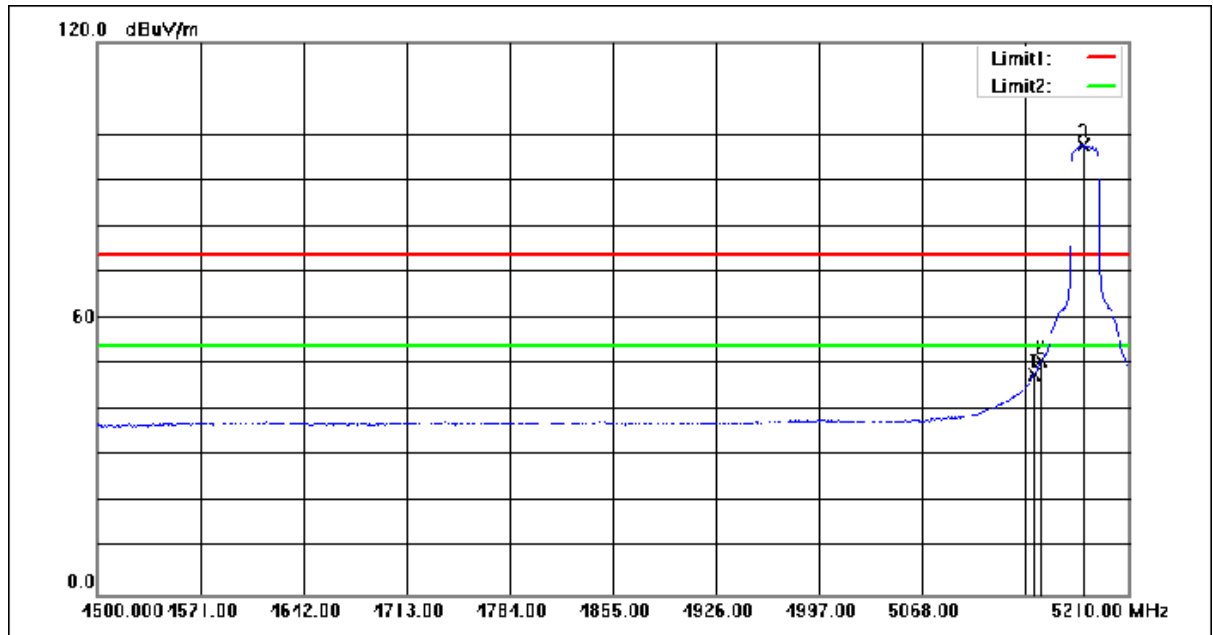
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5144.680 | 76.89 | -7.85 | 69.04 | 74.00 | -4.96 | peak |
| 2 | 5150.000 | 75.48 | -7.84 | 67.64 | 74.00 | -6.36 | peak |
| 3 | 5186.570 | 115.59 | -7.76 | 107.83 | 74.00 | 33.83 | peak |



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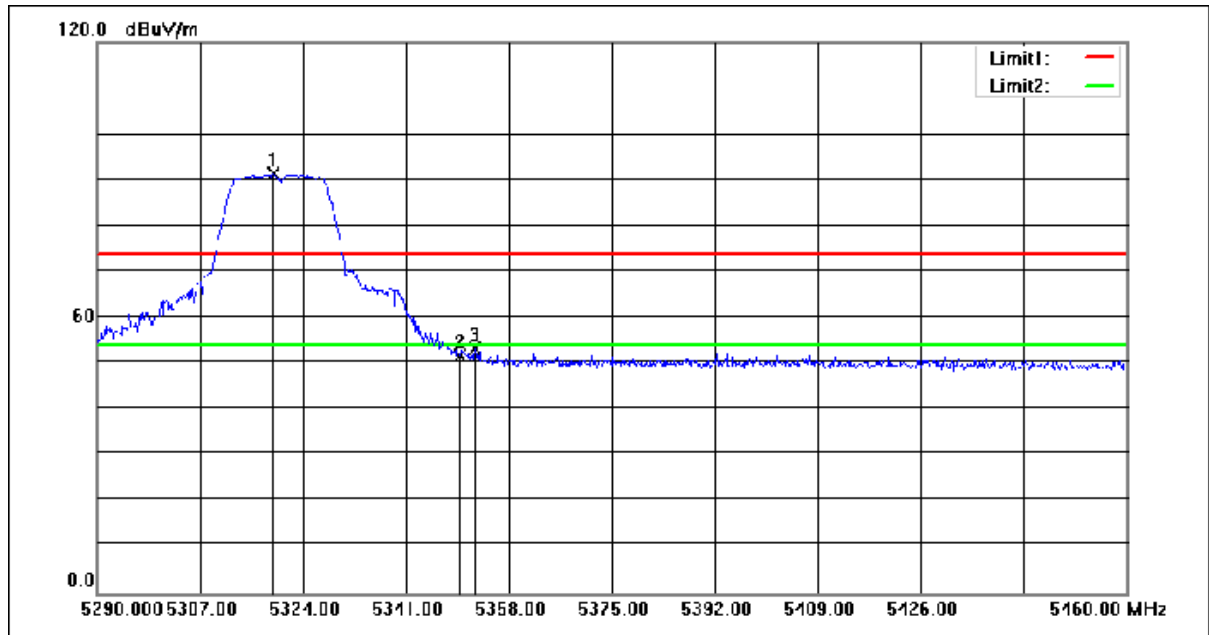
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5145.390 | 55.75 | -7.85 | 47.90 | 54.00 | -6.10 | AVG |
| 2 | 5150.000 | 58.71 | -7.84 | 50.87 | 54.00 | -3.13 | AVG |
| 3 | 5178.760 | 105.33 | -7.78 | 97.55 | 54.00 | 43.55 | AVG |



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Mode: c; Polarization: Horizontal; Modulation: a; bandwidth:20MHz; Channel: High



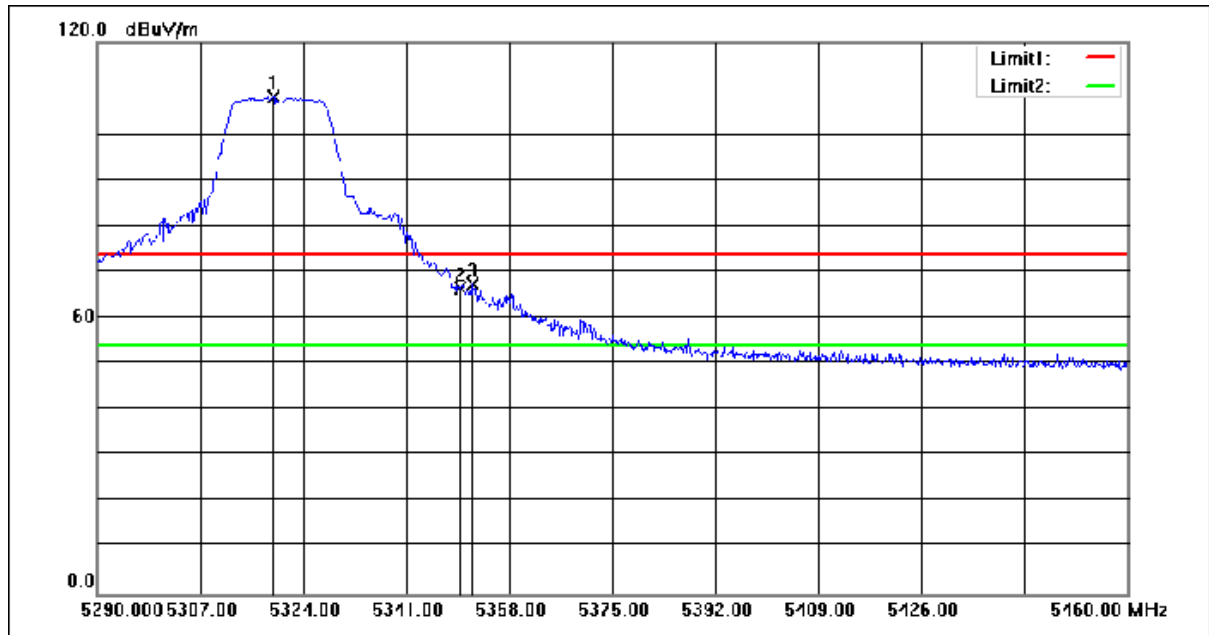
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5319.070 | 98.51 | -7.27 | 91.24 | 74.00 | 17.24 | peak |
| 2 | 5350.000 | 58.96 | -7.15 | 51.81 | 74.00 | -22.19 | peak |
| 3 | 5352.390 | 60.36 | -7.14 | 53.22 | 74.00 | -20.78 | peak |



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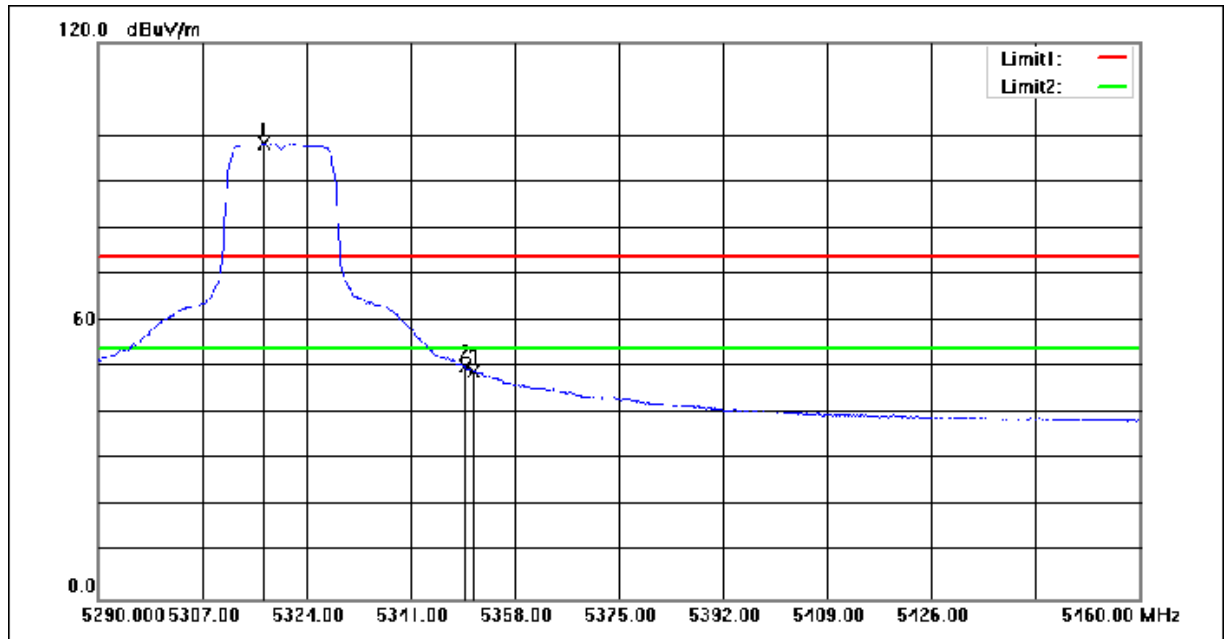
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|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5319.070 | 115.32 | -7.27 | 108.05 | 74.00 | 34.05 | peak |
| 2 | 5350.000 | 73.61 | -7.15 | 66.46 | 74.00 | -7.54 | peak |
| 3 | 5352.050 | 74.54 | -7.14 | 67.40 | 74.00 | -6.60 | peak |



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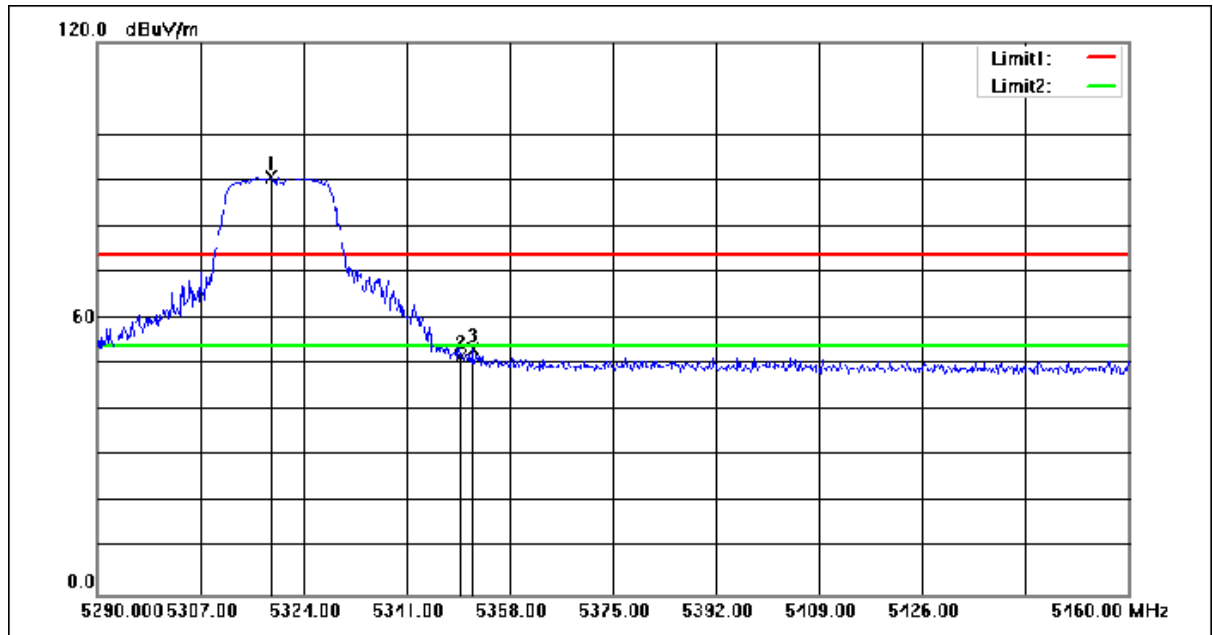
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5317.030 | 105.46 | -7.27 | 98.19 | 54.00 | 44.19 | AVG |
| 2 | 5350.000 | 57.26 | -7.15 | 50.11 | 54.00 | -3.89 | AVG |
| 3 | 5351.370 | 56.29 | -7.14 | 49.15 | 54.00 | -4.85 | AVG |



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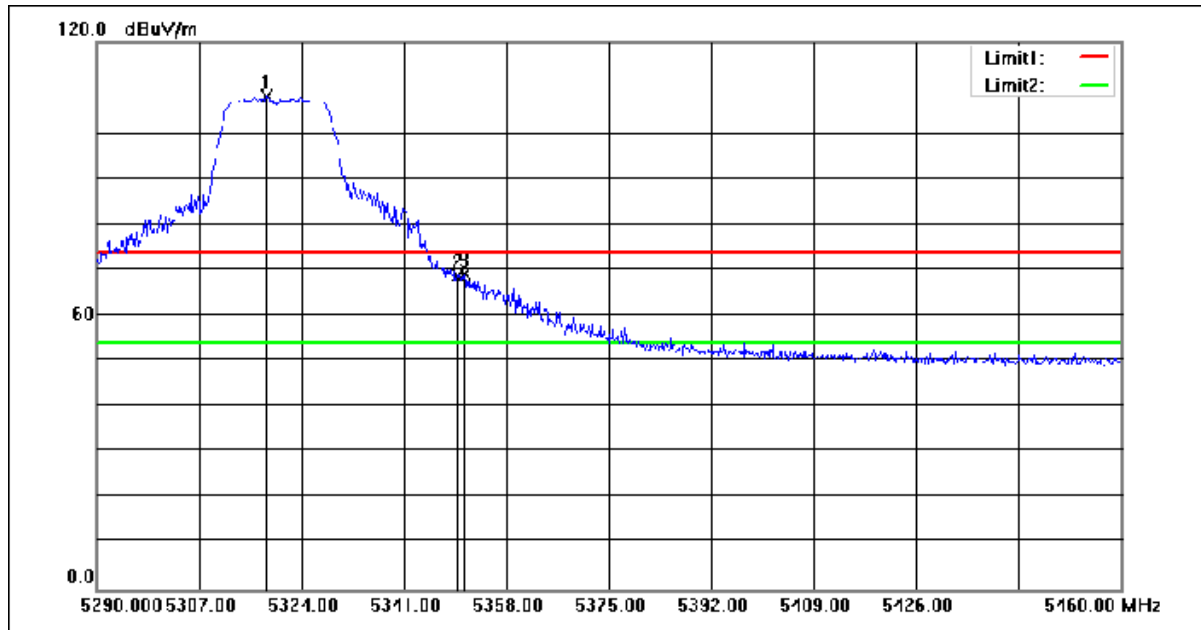
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5318.560 | 98.06 | -7.27 | 90.79 | 74.00 | 16.79 | peak |
| 2 | 5350.000 | 58.90 | -7.15 | 51.75 | 74.00 | -22.25 | peak |
| 3 | 5351.880 | 60.40 | -7.14 | 53.26 | 74.00 | -20.74 | peak |



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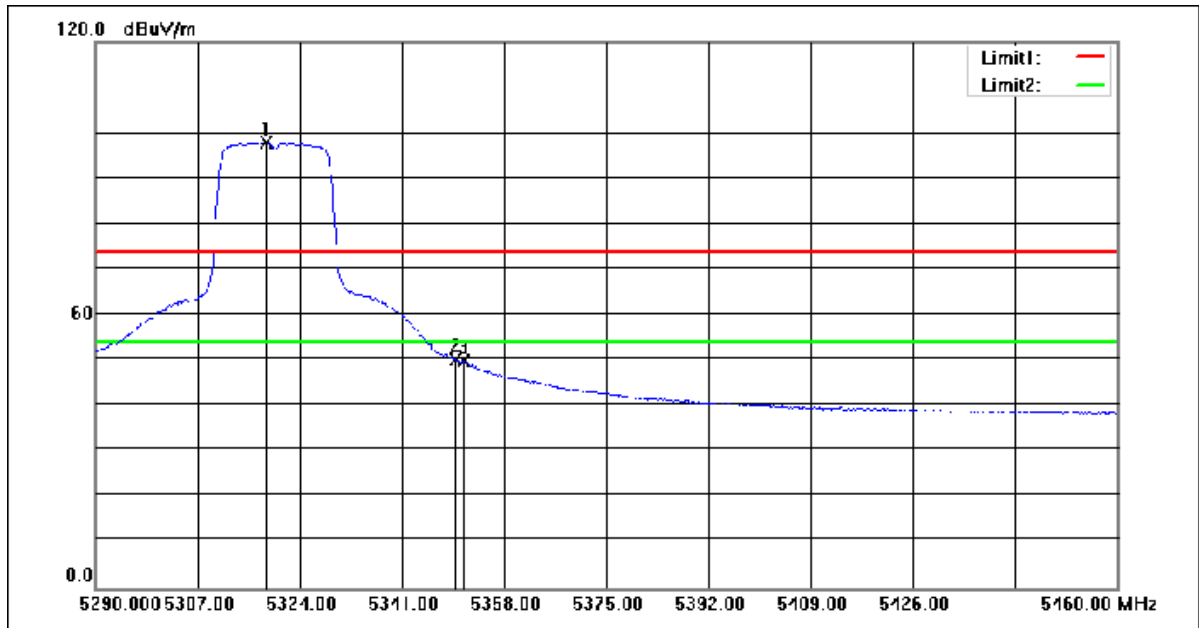
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5318.220 | 115.34 | -7.27 | 108.07 | 74.00 | 34.07 | peak |
| 2 | 5350.000 | 76.04 | -7.15 | 68.89 | 74.00 | -5.11 | peak |
| 3 | 5351.030 | 76.26 | -7.14 | 69.12 | 74.00 | -4.88 | peak |



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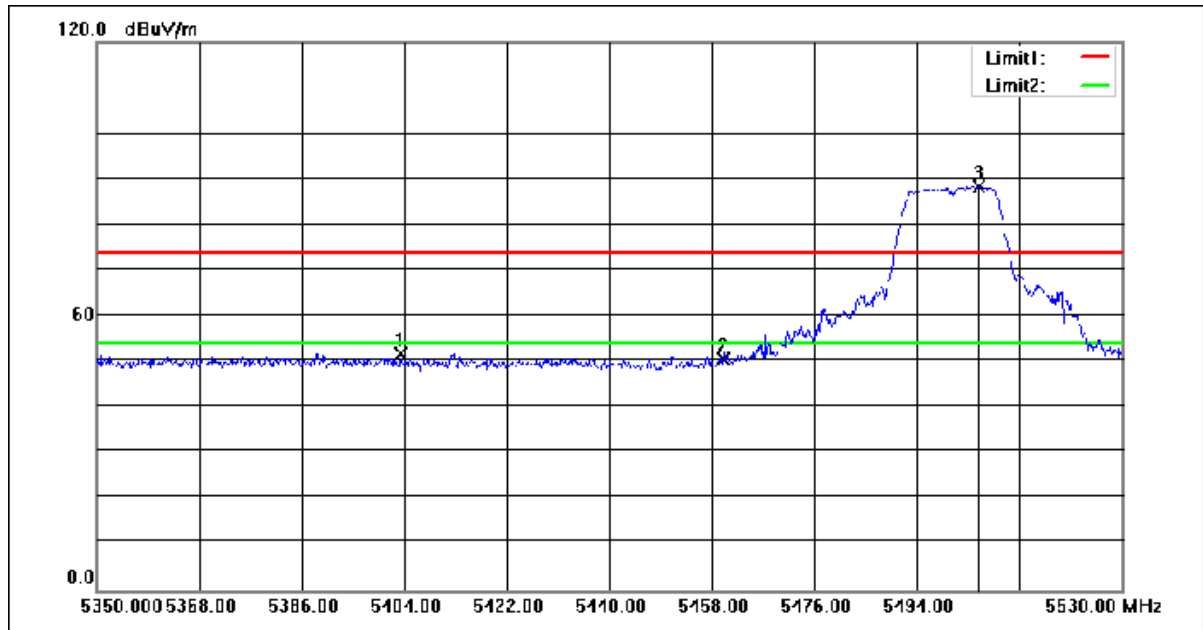
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5318.390 | 105.16 | -7.27 | 97.89 | 54.00 | 43.89 | AVG |
| 2 | 5350.000 | 57.43 | -7.15 | 50.28 | 54.00 | -3.72 | AVG |
| 3 | 5351.200 | 56.97 | -7.14 | 49.83 | 54.00 | -4.17 | AVG |



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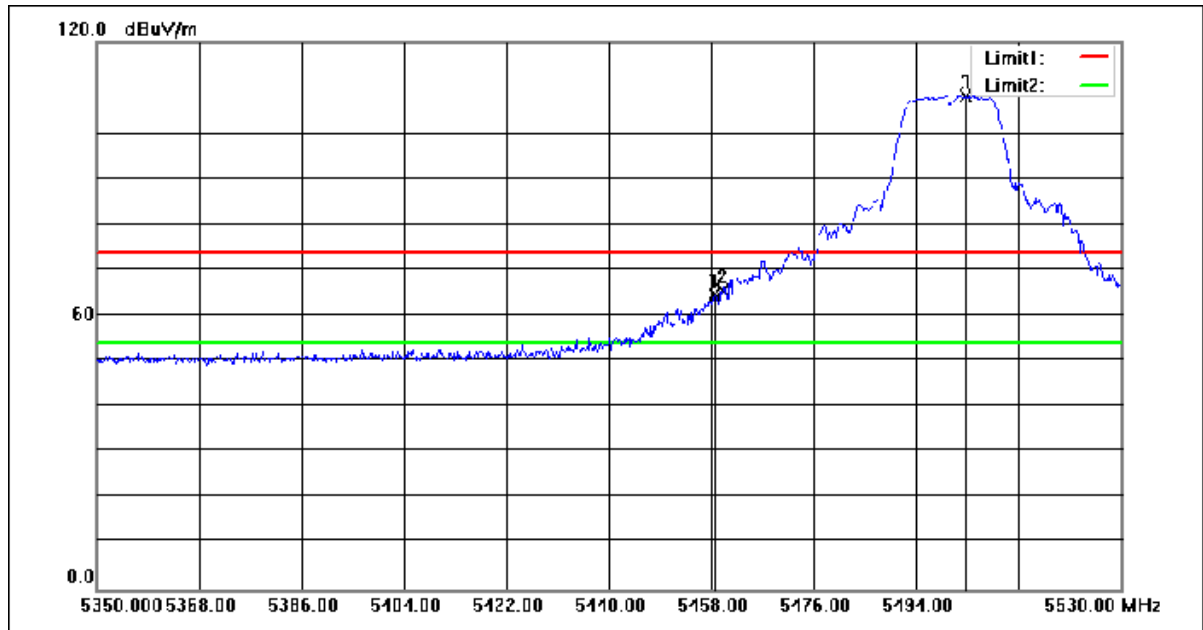
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5403.280 | 58.77 | -6.95 | 51.82 | 74.00 | -22.18 | peak |
| 2 | 5460.000 | 57.50 | -6.95 | 50.55 | 74.00 | -23.45 | peak |
| 3 | 5504.980 | 95.31 | -6.96 | 88.35 | 74.00 | 14.35 | peak |



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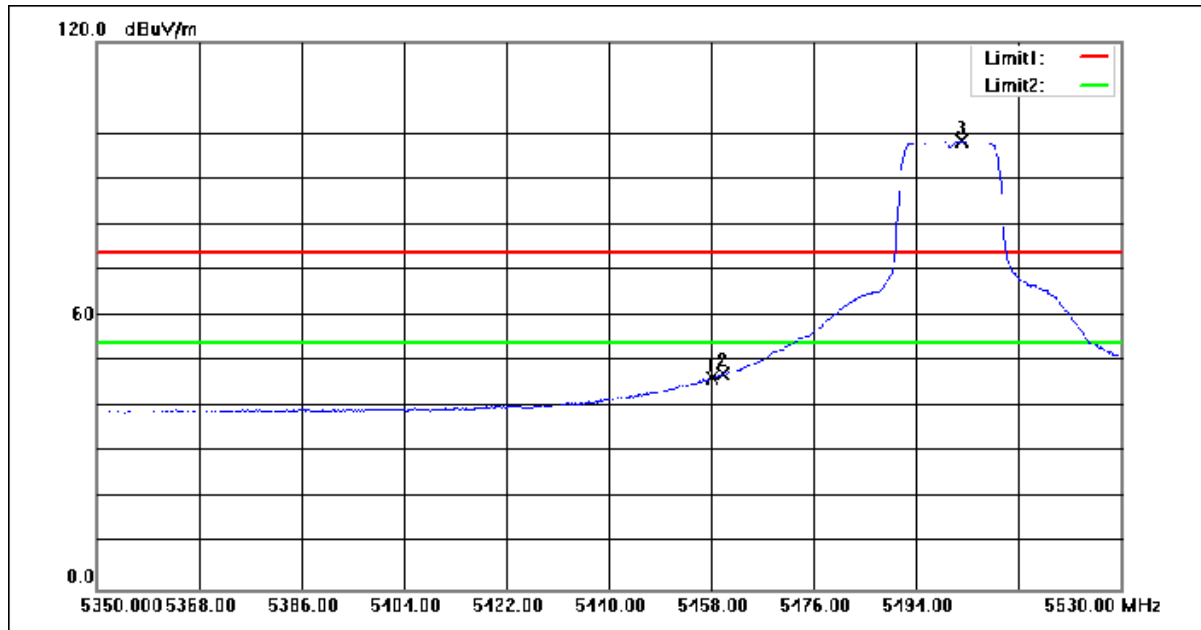
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5458.540 | 71.67 | -6.96 | 64.71 | 74.00 | -9.29 | peak |
| 2 | 5460.000 | 72.59 | -6.95 | 65.64 | 74.00 | -8.36 | peak |
| 3 | 5502.820 | 115.08 | -6.96 | 108.12 | 74.00 | 34.12 | peak |



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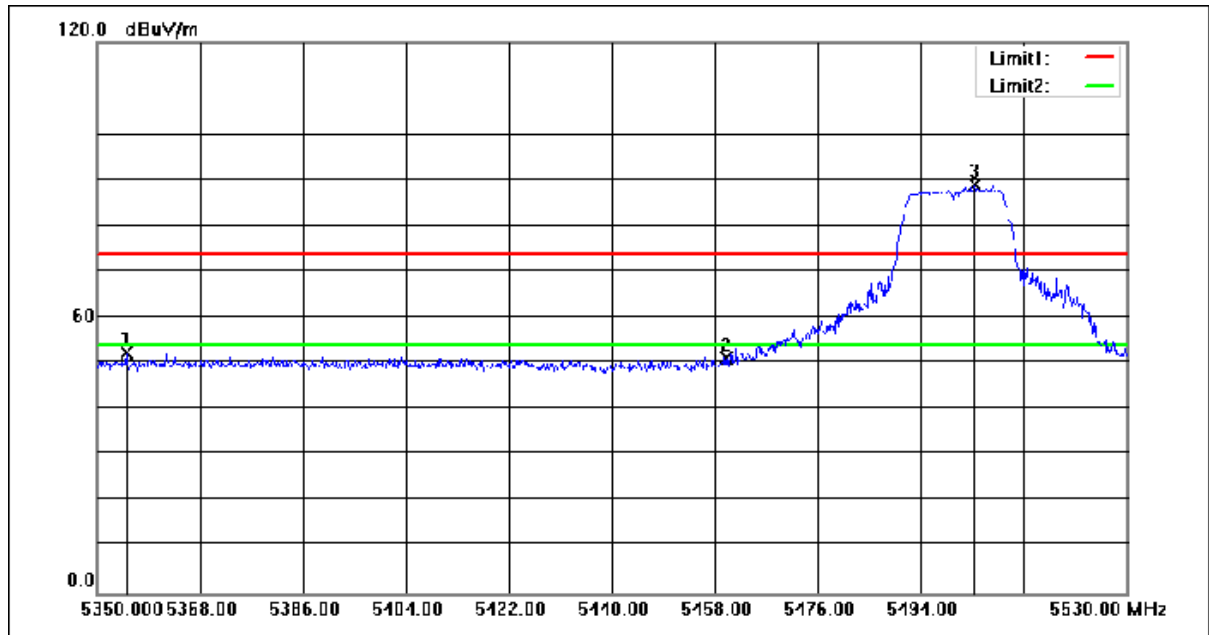
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|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5458.000 | 53.44 | -6.96 | 46.48 | 54.00 | -7.52 | AVG |
| 2 | 5460.000 | 54.13 | -6.95 | 47.18 | 54.00 | -6.82 | AVG |
| 3 | 5501.920 | 105.27 | -6.96 | 98.31 | 54.00 | 44.31 | AVG |



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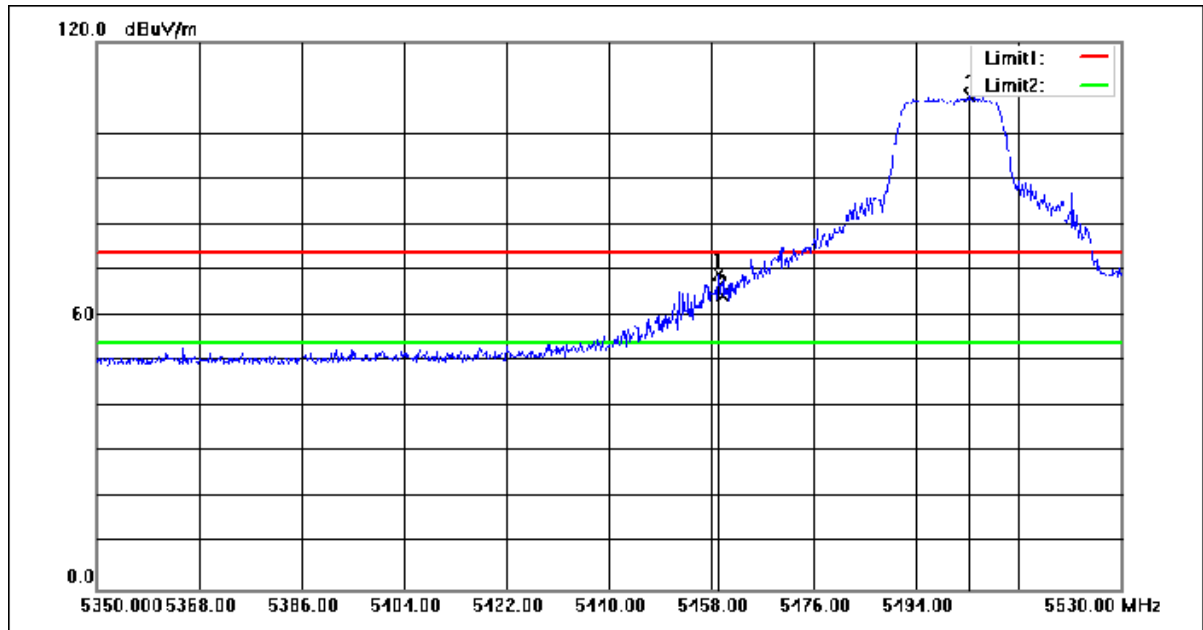
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5355.040 | 59.40 | -7.12 | 52.28 | 74.00 | -21.72 | peak |
| 2 | 5460.000 | 58.14 | -6.95 | 51.19 | 74.00 | -22.81 | peak |
| 3 | 5503.360 | 95.88 | -6.96 | 88.92 | 74.00 | 14.92 | peak |



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



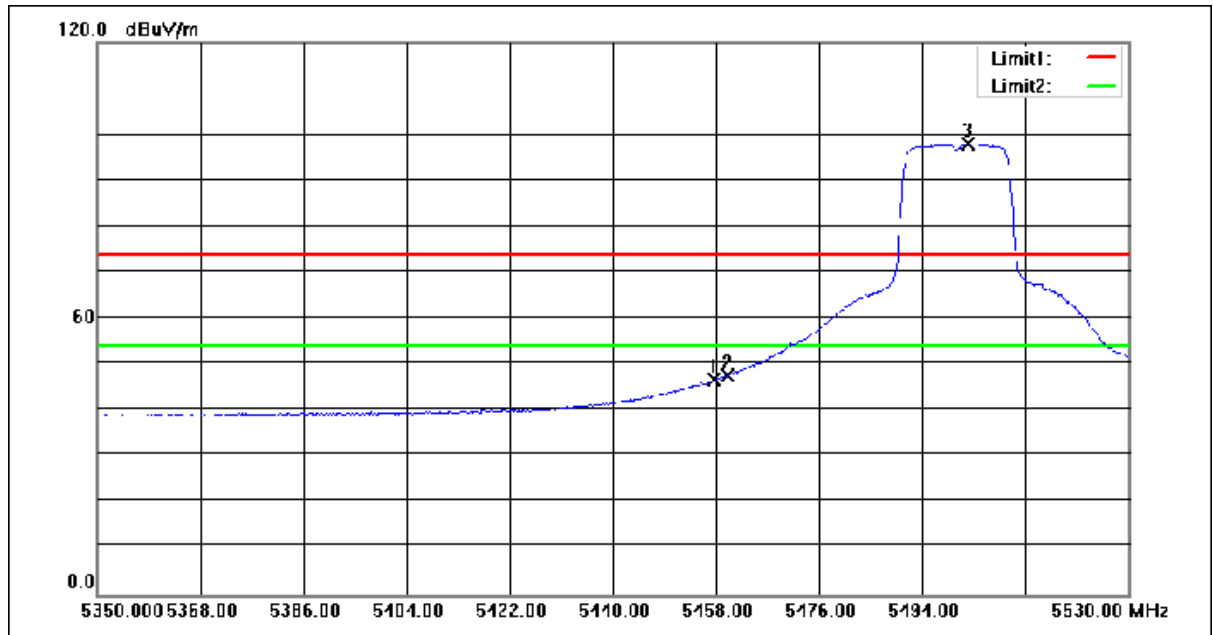
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5459.260 | 76.17 | -6.96 | 69.21 | 74.00 | -4.79 | peak |
| 2 | 5460.000 | 71.27 | -6.95 | 64.32 | 74.00 | -9.68 | peak |
| 3 | 5503.540 | 115.07 | -6.96 | 108.11 | 74.00 | 34.11 | peak |



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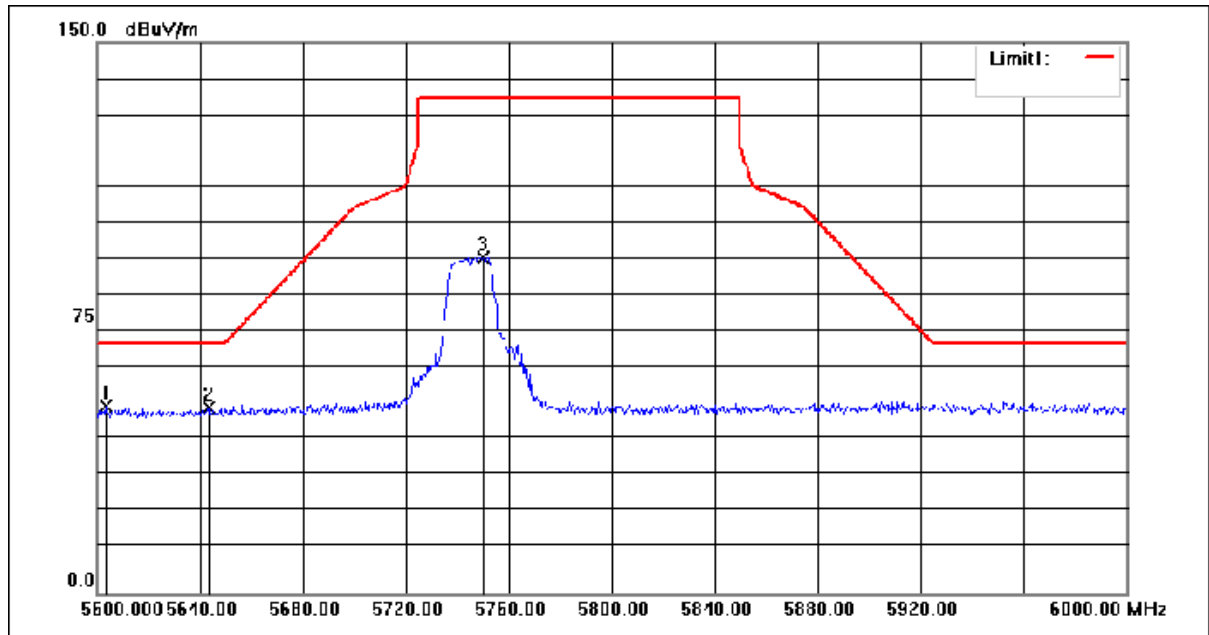
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5457.640 | 53.50 | -6.96 | 46.54 | 54.00 | -7.46 | AVG |
| 2 | 5460.000 | 54.52 | -6.95 | 47.57 | 54.00 | -6.43 | AVG |
| 3 | 5502.100 | 105.01 | -6.96 | 98.05 | 54.00 | 44.05 | AVG |



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Mode: e; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: Low



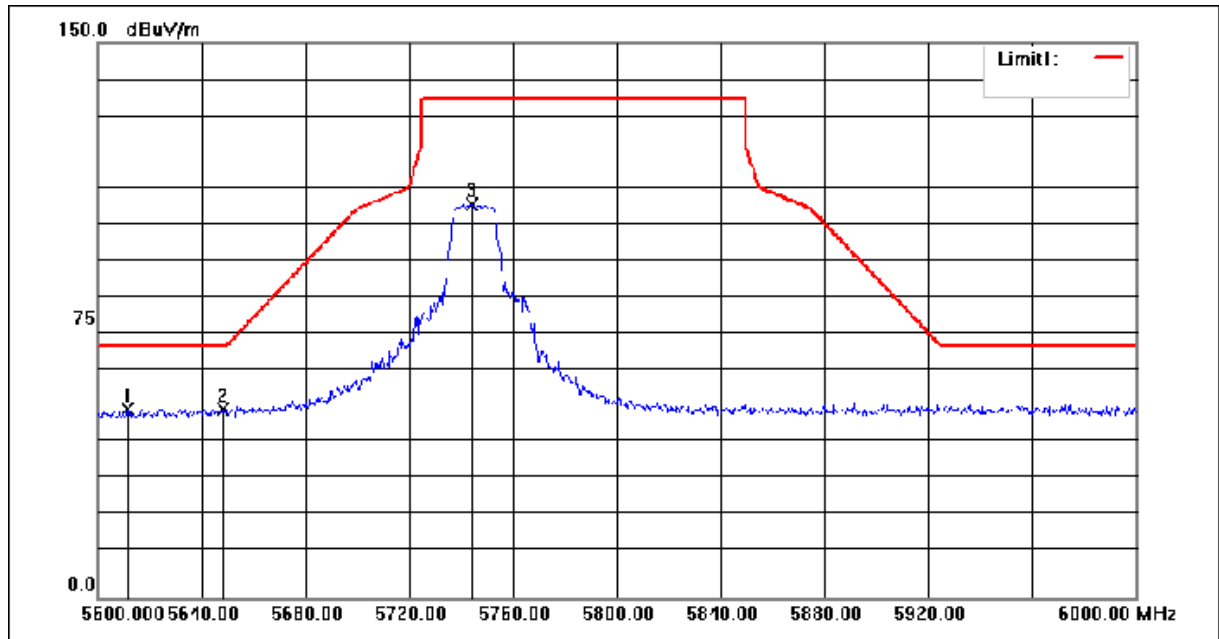
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5603.200 | 57.83 | -6.97 | 50.86 | 68.20 | -17.34 | peak |
| 2 | 5643.200 | 57.15 | -6.86 | 50.29 | 68.20 | -17.91 | peak |
| 3 | 5750.000 | 98.03 | -6.59 | 91.44 | 135.00 | -43.56 | peak |



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Mode: e; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: Low



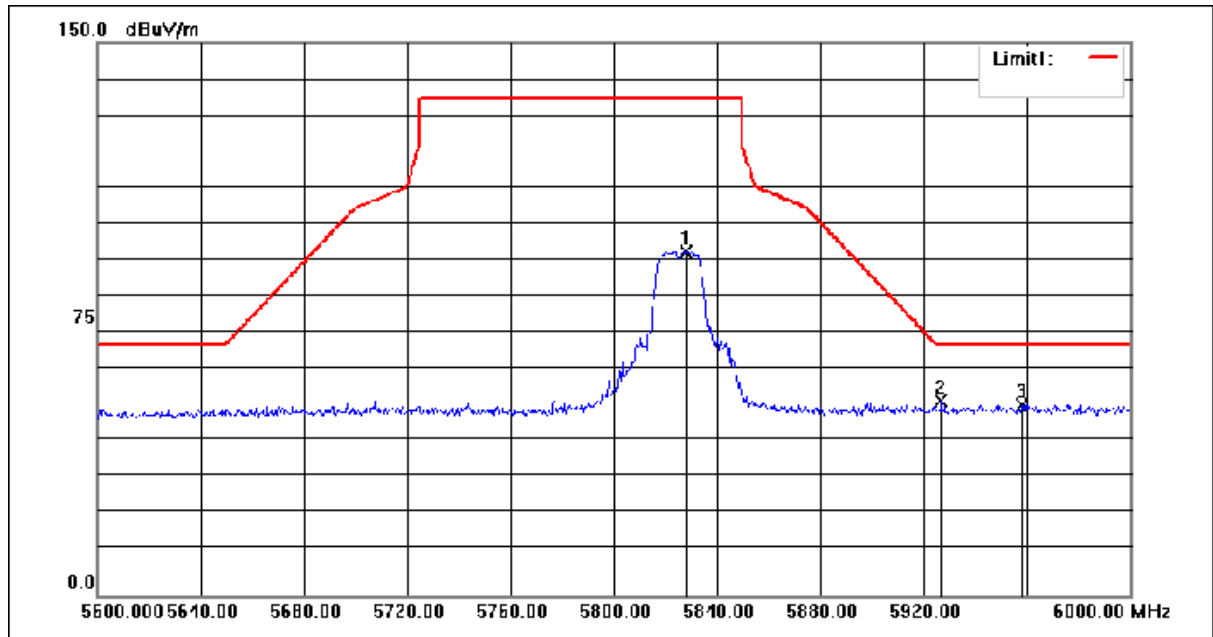
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5611.200 | 57.86 | -6.94 | 50.92 | 68.20 | -17.28 | peak |
| 2 | 5648.000 | 57.76 | -6.85 | 50.91 | 68.20 | -17.29 | peak |
| 3 | 5744.400 | 113.04 | -6.60 | 106.44 | 135.00 | -28.56 | peak |



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Mode: e; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: High



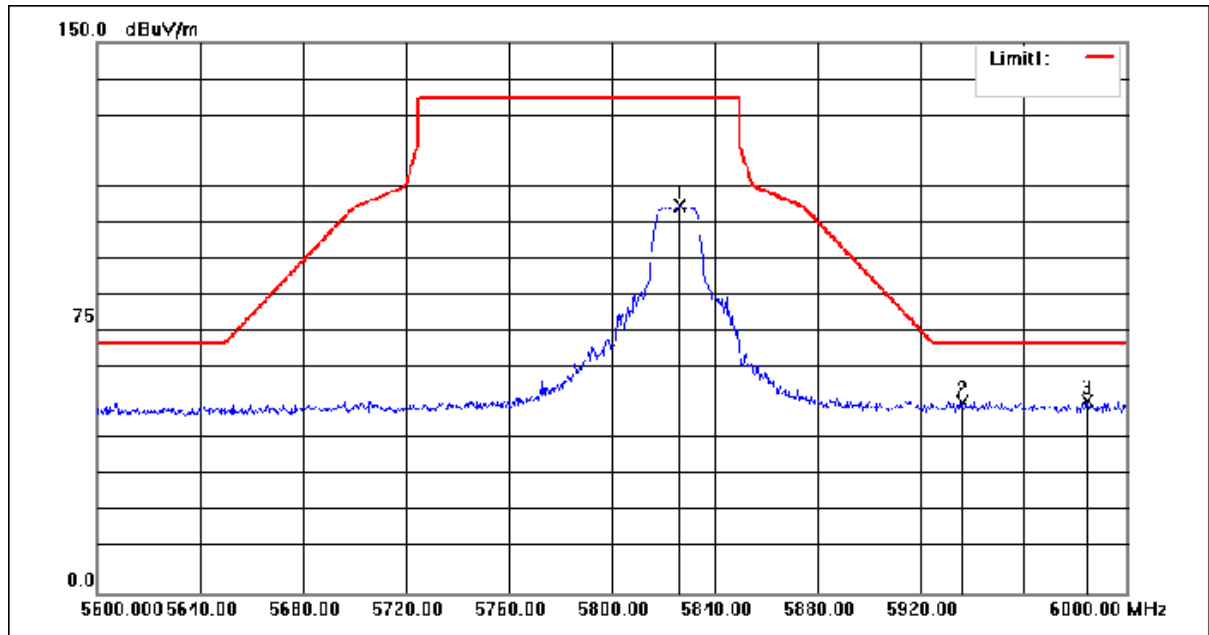
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5828.000 | 99.63 | -6.30 | 93.33 | 135.00 | -41.67 | peak |
| 2 | 5926.800 | 58.33 | -5.76 | 52.57 | 68.20 | -15.63 | peak |
| 3 | 5958.000 | 57.25 | -5.59 | 51.66 | 68.20 | -16.54 | peak |



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Mode: e; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: High



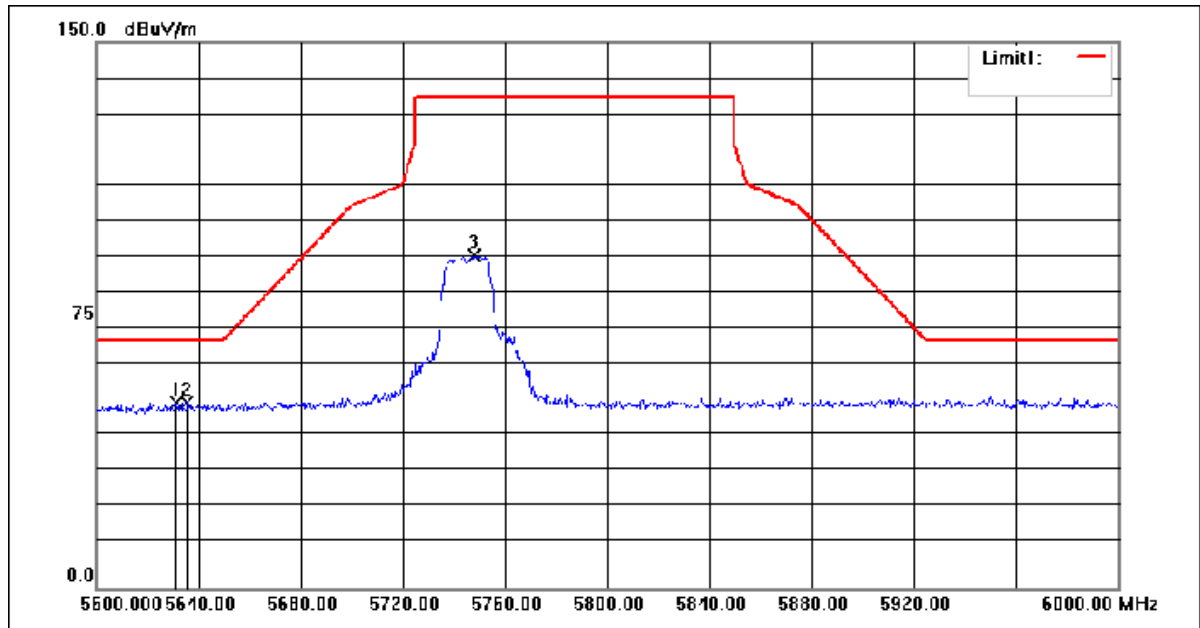
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5826.400 | 111.77 | -6.32 | 105.45 | 135.00 | -29.55 | peak |
| 2 | 5936.000 | 57.78 | -5.71 | 52.07 | 68.20 | -16.13 | peak |
| 3 | 5984.800 | 57.82 | -5.44 | 52.38 | 68.20 | -15.82 | peak |



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



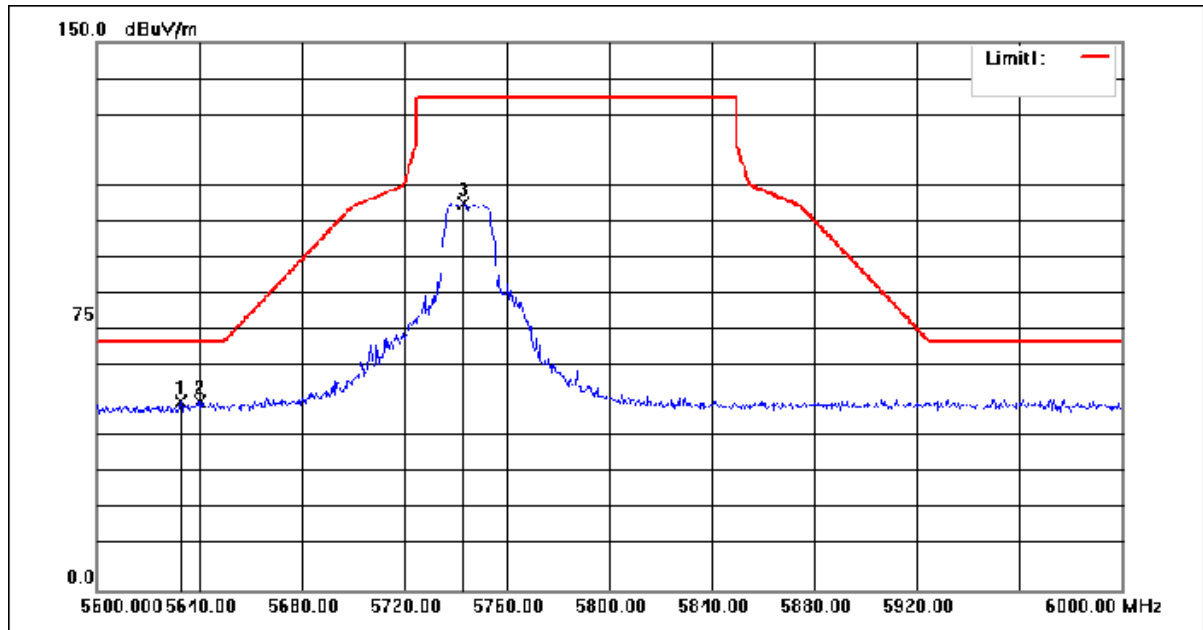
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5631.200 | 57.61 | -6.89 | 50.72 | 68.20 | -17.48 | peak |
| 2 | 5635.600 | 57.88 | -6.88 | 51.00 | 68.20 | -17.20 | peak |
| 3 | 5748.000 | 97.74 | -6.59 | 91.15 | 135.00 | -43.85 | peak |



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



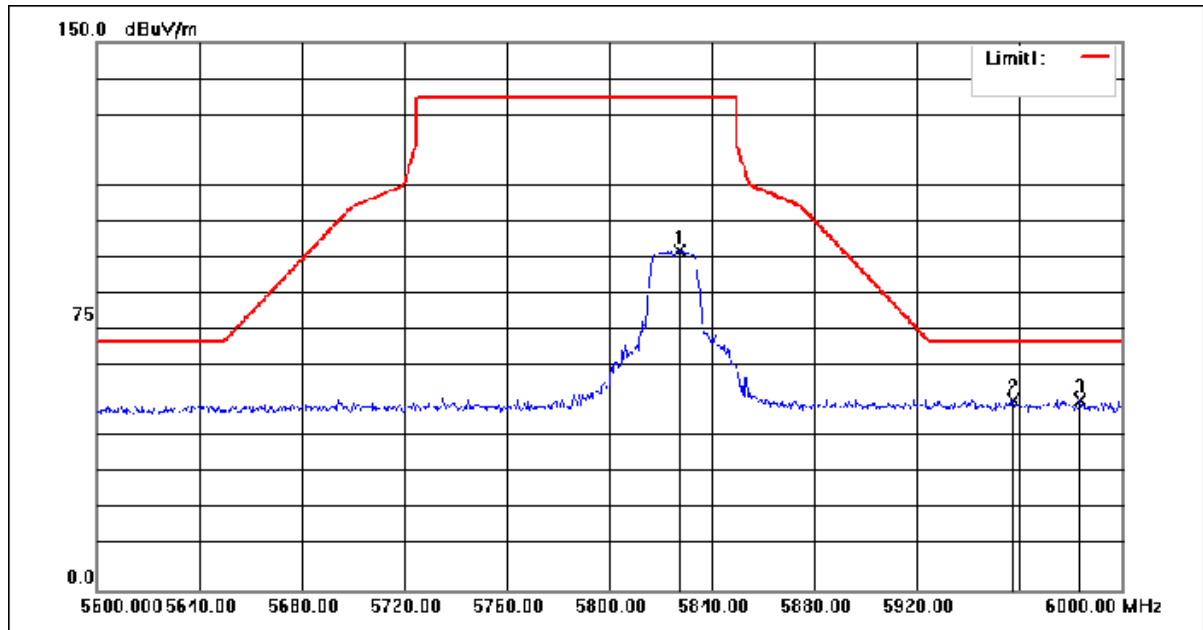
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5632.800 | 58.48 | -6.89 | 51.59 | 68.20 | -16.61 | peak |
| 2 | 5640.400 | 58.36 | -6.87 | 51.49 | 68.20 | -16.71 | peak |
| 3 | 5743.200 | 112.42 | -6.61 | 105.81 | 135.00 | -29.19 | peak |



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



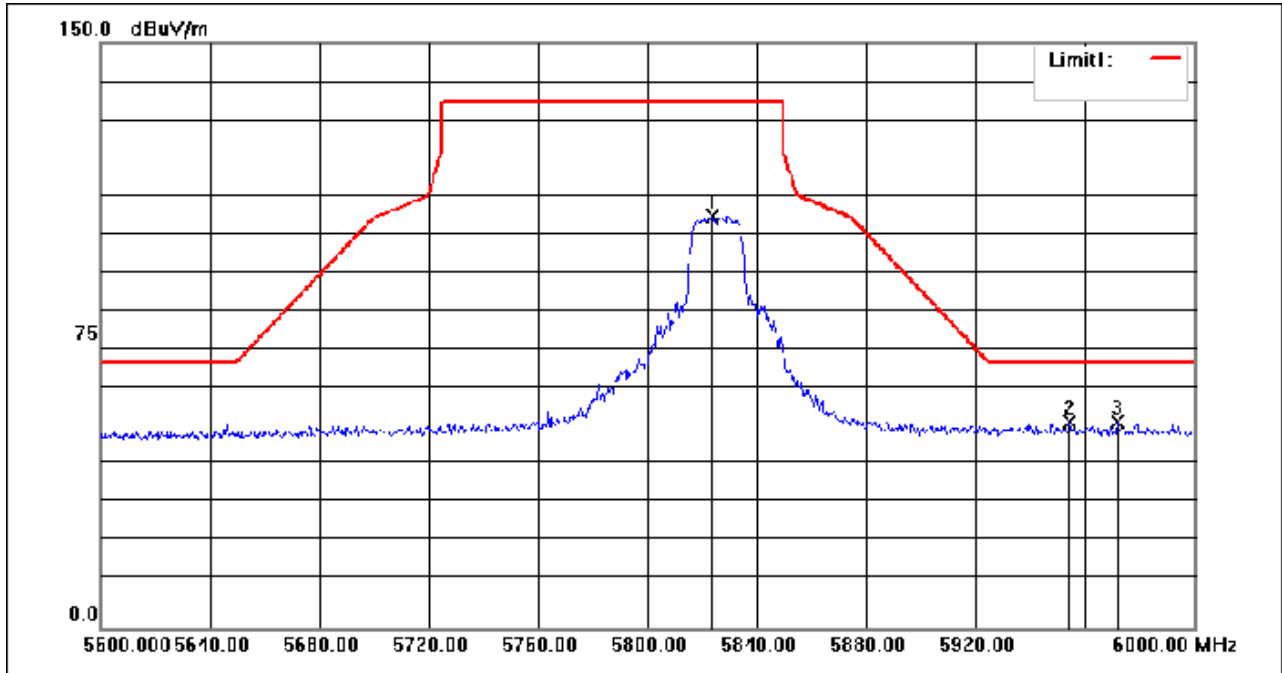
| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5827.600 | 99.20 | -6.31 | 92.89 | 135.00 | -42.11 | peak |
| 2 | 5957.600 | 57.69 | -5.59 | 52.10 | 68.20 | -16.10 | peak |
| 3 | 5983.600 | 57.51 | -5.45 | 52.06 | 68.20 | -16.14 | peak |



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| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|--------|
| 1 | 5823.600 | 112.03 | -6.33 | 105.70 | 135.00 | -29.30 | peak |
| 2 | 5954.400 | 58.39 | -5.62 | 52.77 | 68.20 | -15.43 | peak |
| 3 | 5972.000 | 58.12 | -5.52 | 52.60 | 68.20 | -15.60 | peak |



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7.10 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)
Test Method: ANSI C63.10 (2013) Section 6.8
Limit: The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode: b: Charging+TX mode_ (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

c: Charging+TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

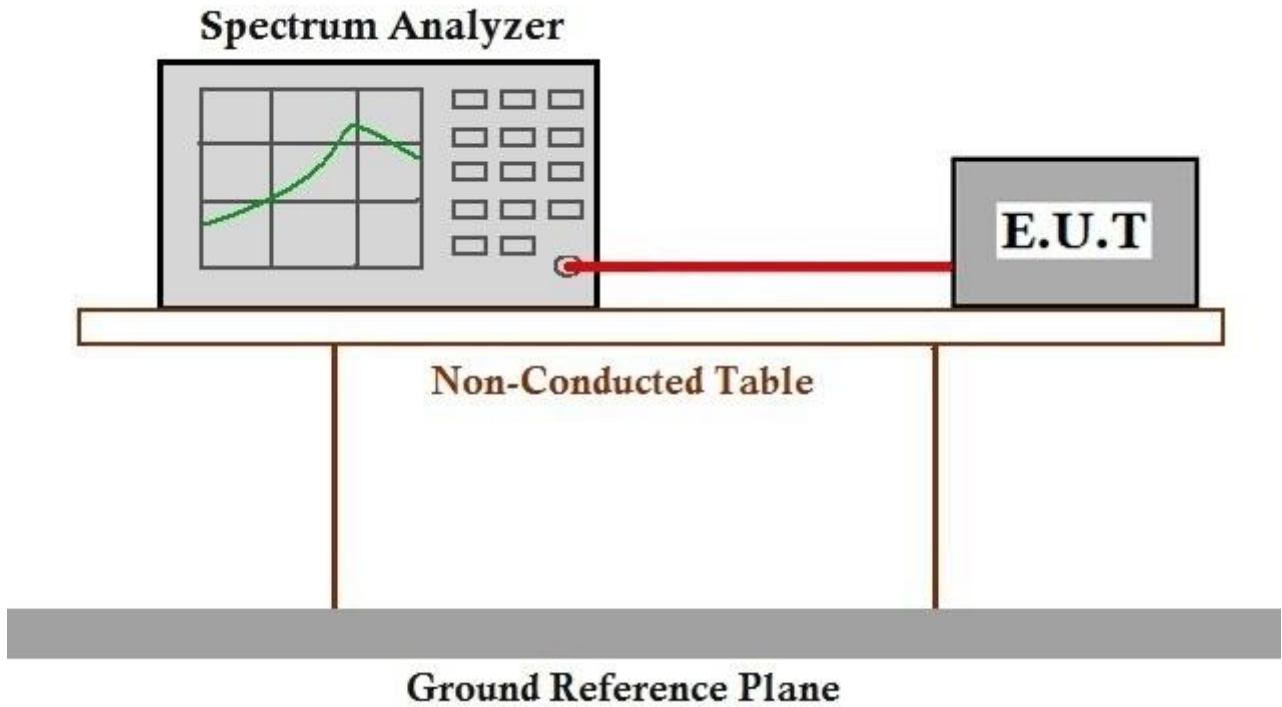
d: Charging+TX mode_ (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

e: Charging+TX mode_ (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.



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7.10.2 Test Setup Diagram



7.10.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210700742202



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8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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