

# TEST REPORT

**Application No.:** KSCR2110000165AT  
**FCC ID:** 2ADTD-AEG2PRO  
**Applicant:** Hangzhou Hikvision Digital Technology Co.,Ltd.  
**Address of Applicant:** No. 555, Qianmo Road, Binjiang District, Hangzhou  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co.,Ltd.  
**Address of Manufacturer:** No. 555, Qianmo Road, Binjiang District, Hangzhou  
**Factory:** Hangzhou Ymir Enterprise.,Ltd.  
**Address of Factory:** No.356, Hongda Rd, Xiaoshan District, Hangzhou City  
**Equipment Under Test (EUT):**  
**EUT Name:** DashCam  
**Model No.:** AE-DC8322-G2PRO, AE-DC8322-G2PRO+, AE-DC8322-G20, AE-DC8322-G20PRO, AE-DCXXX2-G2XX "X" =0-9, A-Z, a-z, -, + or blank) ▣  
 ▣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade mark:** HIKVISION  
**Standard(s) :** 47 CFR Part 15, Subpart E 15.407  
**Date of Receipt:** 2021-10-14  
**Date of Test:** 2021-10-19 to 2021-11-08  
**Date of Issue:** 2021-11-08

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Eric Lin  
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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 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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

Authorized for issue by:			
		<i>Damon Zhou</i>	
		<b>Damon Zhou / Project Engineer</b>	
		<i>Eric Lin</i>	
		<b>Eric Lin / Reviewer</b>	



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## 2 Test Summary

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

N/A: Not applicable

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
99% Bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 II D	N/A	Pass
26dB Emission bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band )	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Frequency Stability	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass

N/A: Not applicable

### Declaration of EUT Family Grouping:

Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model AE-DC8322-G2PRO was tested since their differences were the model number and appearance.



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No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgs.com.cn  
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## 4 General Information

### 4.1 Details of E.U.T.

Power supply: DC 5V,2A by DC/DC Charger  
 Model: H17-000012  
 Input: DC 10V-36V 1.5A MAX  
 Output: DC 5V, 2A MAX

Test voltage: DC 12V

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n(HT20)/ac(VHT20)	5180-5240	4
		802.11n(HT40)/ac(VHT40)	5190-5230	2
		802.11ac(VHT80)	5210	1
	UNII Band III	802.11a/n(HT20)/ac(VHT20)	5745-5825	5
		802.11n(HT40)/ac(VHT40)	5755-5795	2
		802.11ac(VHT80)	5775	1
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
Date Rate:	802.11a:6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-MCS7 802.11ac: MCS0-MCS7			
Channel Spacing:	802.11a/n(HT20)/ac(VHT20): 20MHz 802.11n(HT40)/ac(VHT40): 40MHz 802.11ac(VHT80): 80MHz			
Antenna Gain:	2.50dBi (Provided by manufacturer)			
Antenna Type:	Chip Antenna			



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**4.2 Power level setting using in test:**

Channel	802.11a	802.11n(HT20)	802.11ac(VHT20)
	Ant 1	Ant 1	Ant 1
36	50	50	50
40	50	50	50
48	50	50	50
149	52	52	52
157	52	52	52
165	52	52	52
Channel	802.11n(HT40)	802.11ac(VHT40)	
	Ant 1	Ant 1	
38	52	50	
46	52	52	
151	52	52	
159	52	52	
Channel	802.11ac(VHT80)		
	Ant 1		
42	50		
155	52		



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### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book	Acer	ZQT	NXM0QCN01031403EE876

### 4.4 Measurement Uncertainty

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

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



#### 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





## 5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
<b>RF Conducted Test</b>						
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	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	10/12/2021	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	10/12/2021	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	10/14/2021	10/13/2022
<b>RF Radiated Test</b>						
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
2	Signal Generator	Agilent	E8257C	MY43321570	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
9	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
10	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	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



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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 EMC-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 Chip antenna and no consideration of replacement. The best case gain of the antenna is 2.50dBi.

Antenna location: Refer to Appendix (Internal Photos)



## 6.2 Transmission in the Absence of Data

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

### 6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

WIFI chip (RTL8821CS) 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.



## 7 Radio Spectrum Matter Test Results

### 7.1 99% Bandwidth

Test Requirement N/A  
Test Method: KDB 789033 II D

#### 7.1.1 E.U.T. Operation

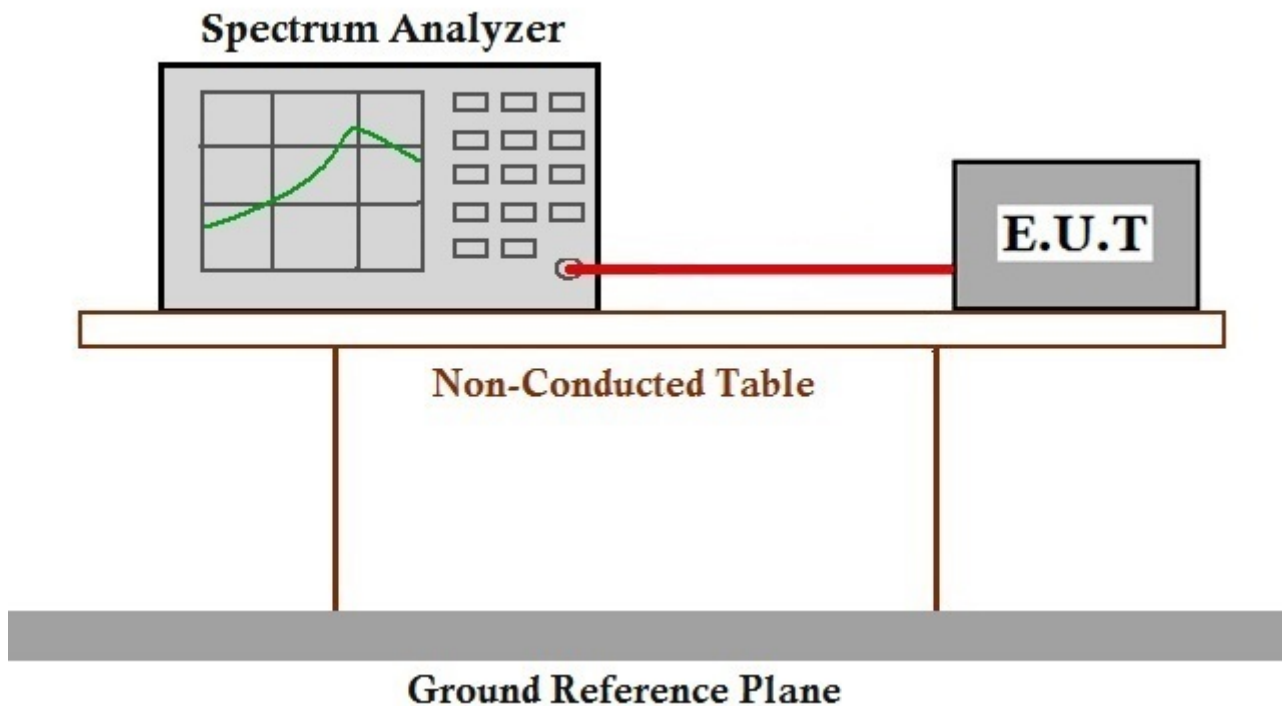
Operating Environment:

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

Test Mode e: 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); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

f: 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); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). 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

The detailed test data see: Appendix D for KSCR211000016504



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**7.2 26dB Emission bandwidth**

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

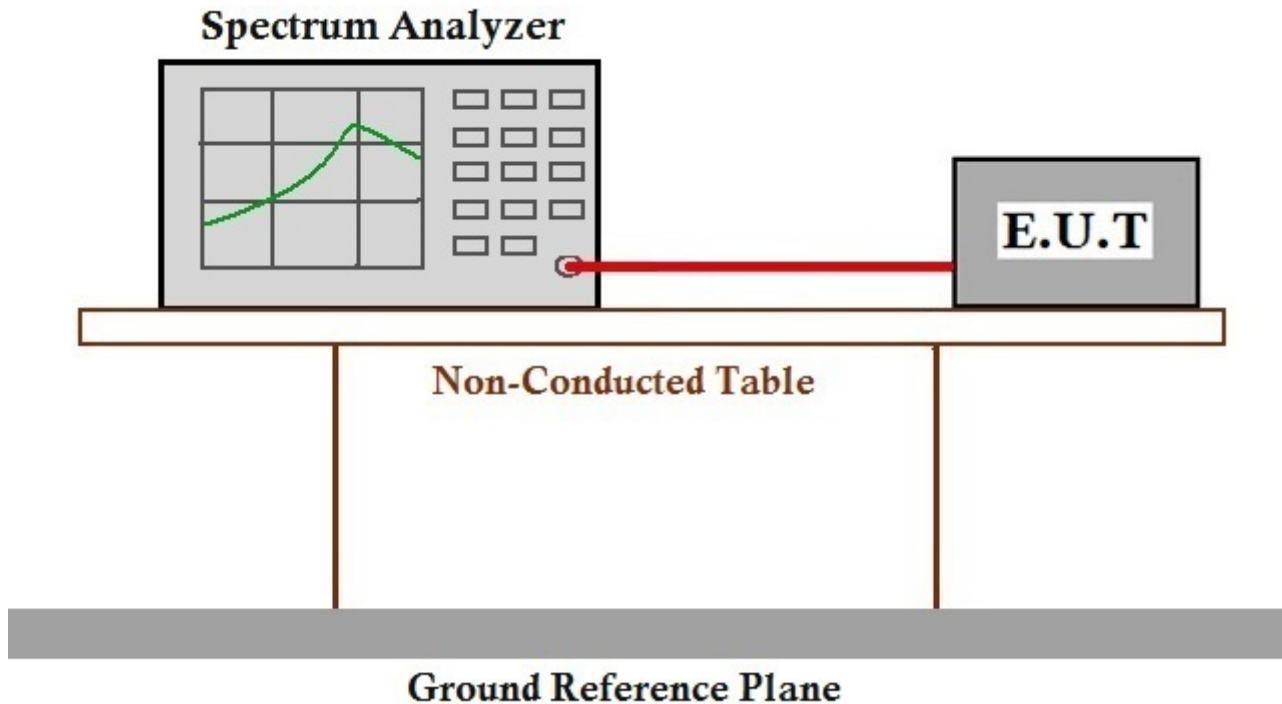
**7.2.1 E.U.T. Operation**

Operating Environment:

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

Test mode e: 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); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

**7.2.2 Test Setup Diagram**



**7.2.3 Measurement Procedure and Data**

The detailed test data see: Appendix D for KSCR211000016504



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**7.3 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

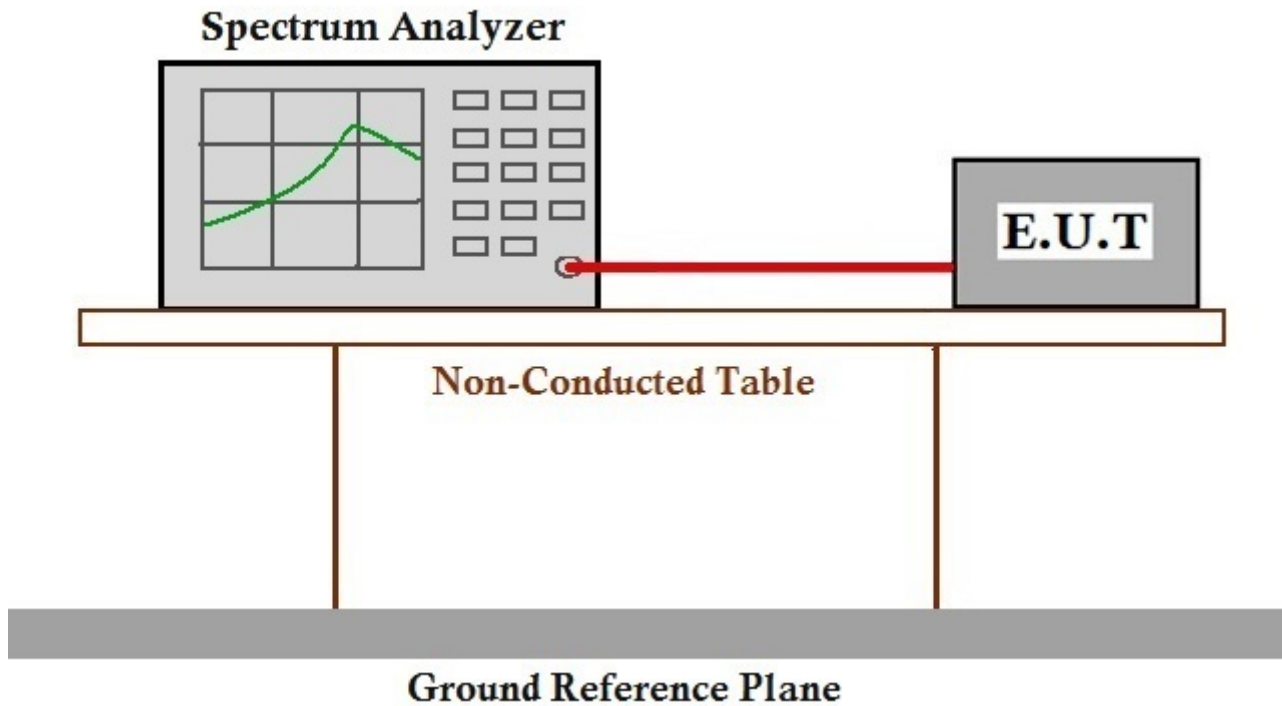
**7.3.1 E.U.T. Operation**

Operating Environment:

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

Test mode f: 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); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

**7.3.2 Test Setup Diagram**



**7.3.3 Measurement Procedure and Data**

The detailed test data see: Appendix D for KSCR211000016504



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### 7.4 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	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.



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7.4.1 E.U.T. Operation

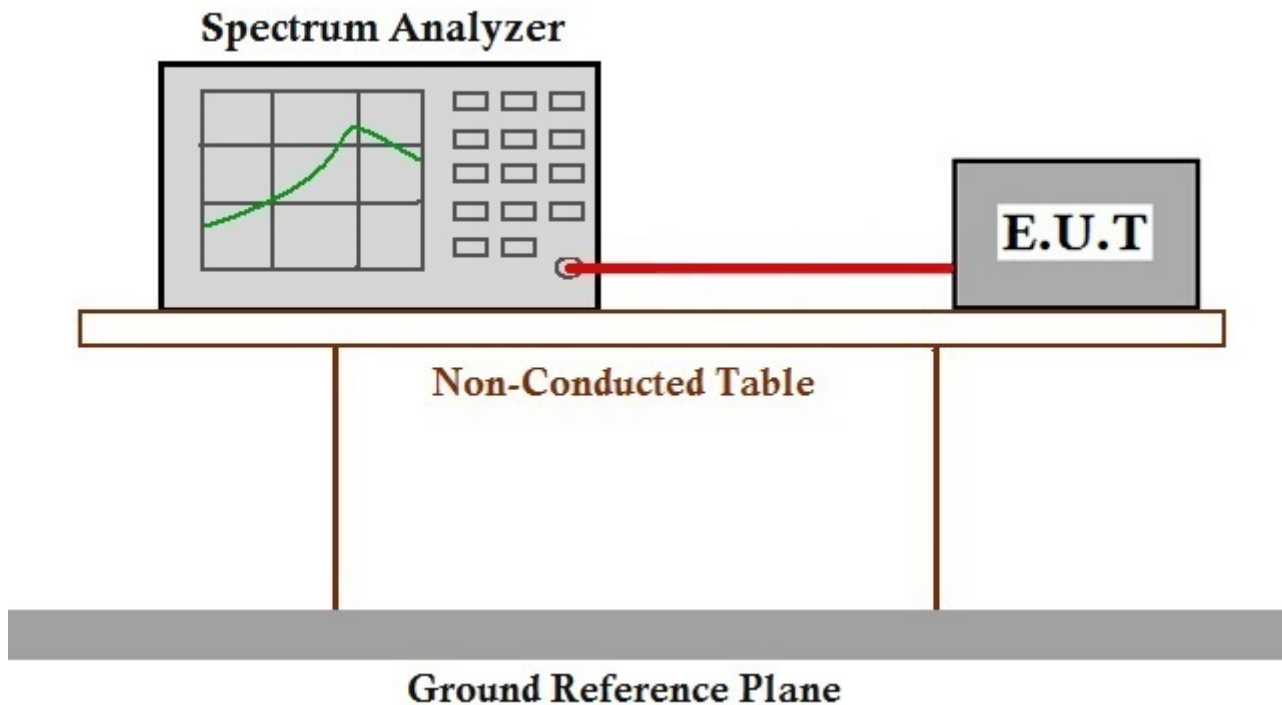
Operating Environment:

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

Test mode e: 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); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

f: 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); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). 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 D for KSCR211000016504



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### 7.5 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.



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7.5.1 E.U.T. Operation

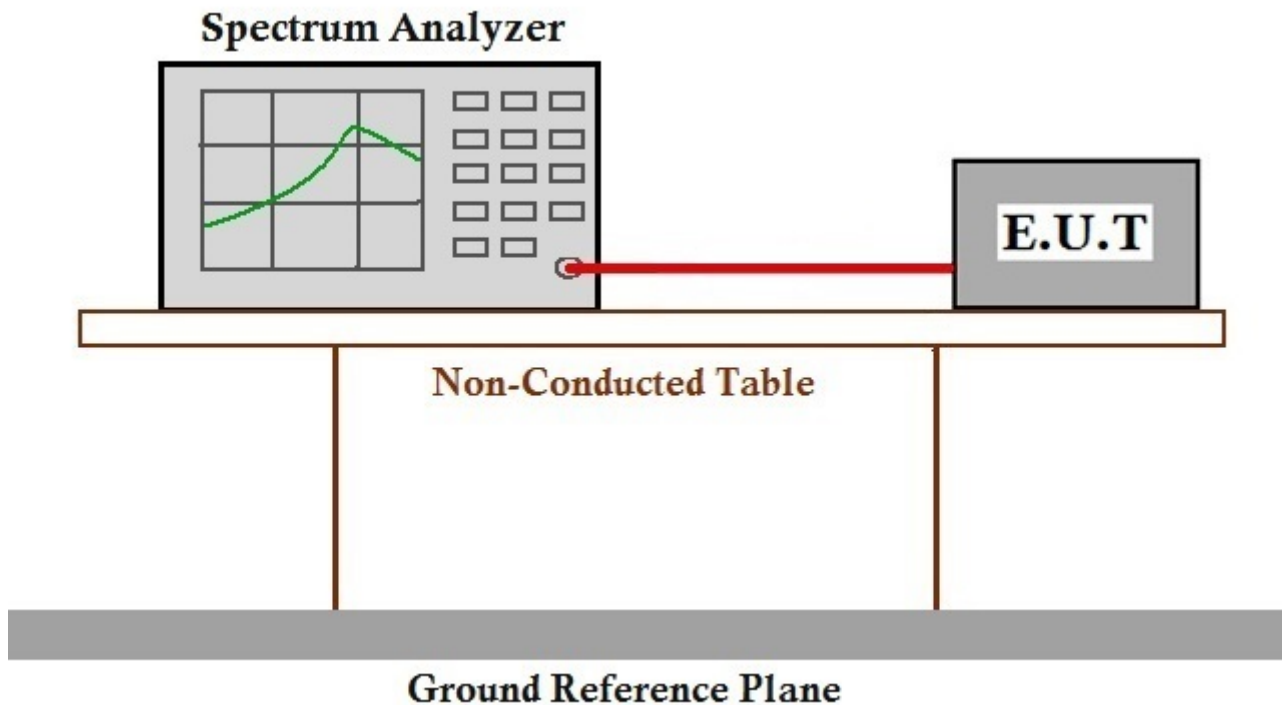
Operating Environment:

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

Test mode e: 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); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

f: 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); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). 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 D for KSCR211000016504



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## 7.6 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.



### 7.6.1 E.U.T. Operation

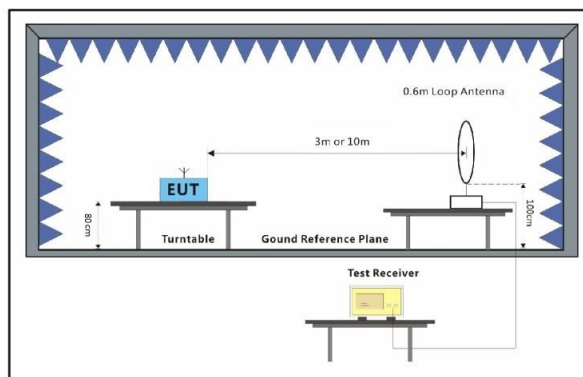
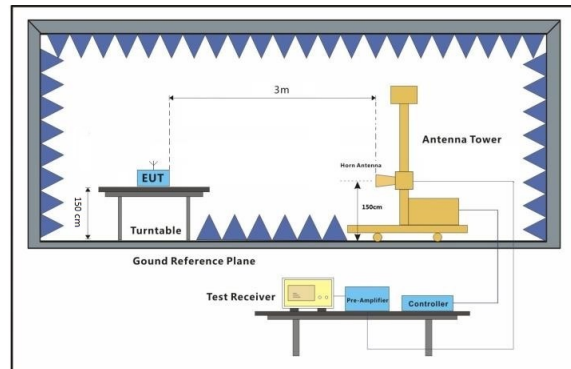
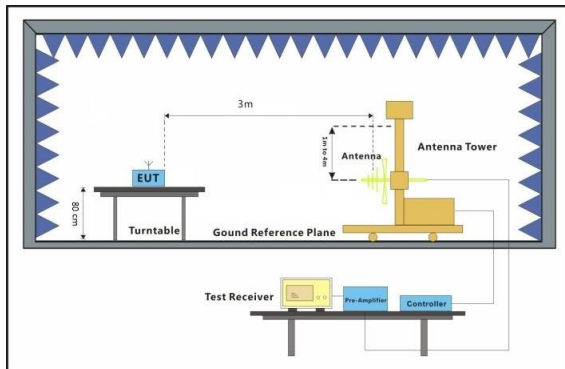
Operating Environment:

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

Test Mode e: 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); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

f: 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); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

### 7.6.2 Test Setup Diagram



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### 7.6.3 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:

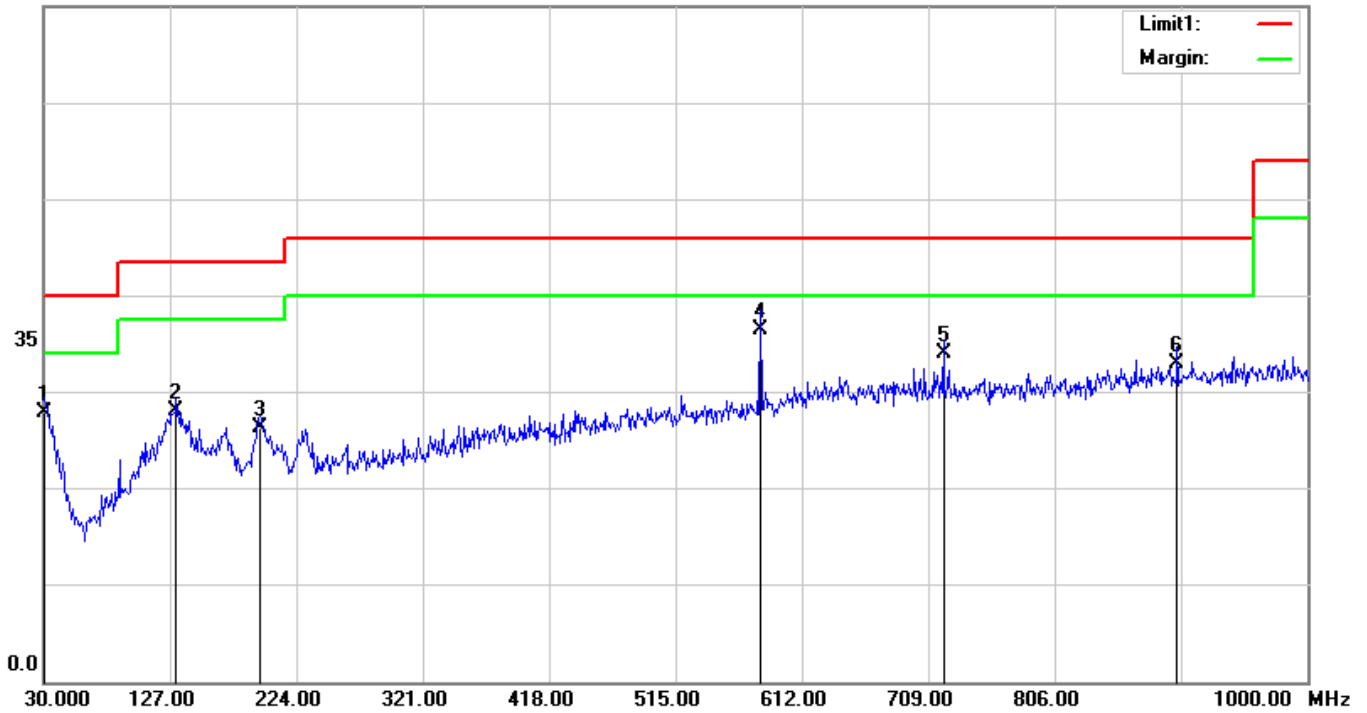
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. 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.



Below 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	30.0000	1.91	25.93	27.84	40.00	-12.16	100	4	QP
2	131.8500	8.48	19.55	28.03	43.50	-15.47	100	68	QP
3	195.8700	9.75	16.57	26.32	43.50	-17.18	100	134	QP
4	579.9900	10.27	26.24	36.51	46.00	-9.49	100	6	QP
5	720.6400	6.47	27.49	33.96	46.00	-12.04	100	119	QP
6	900.0900	4.35	28.67	33.02	46.00	-12.98	100	104	QP



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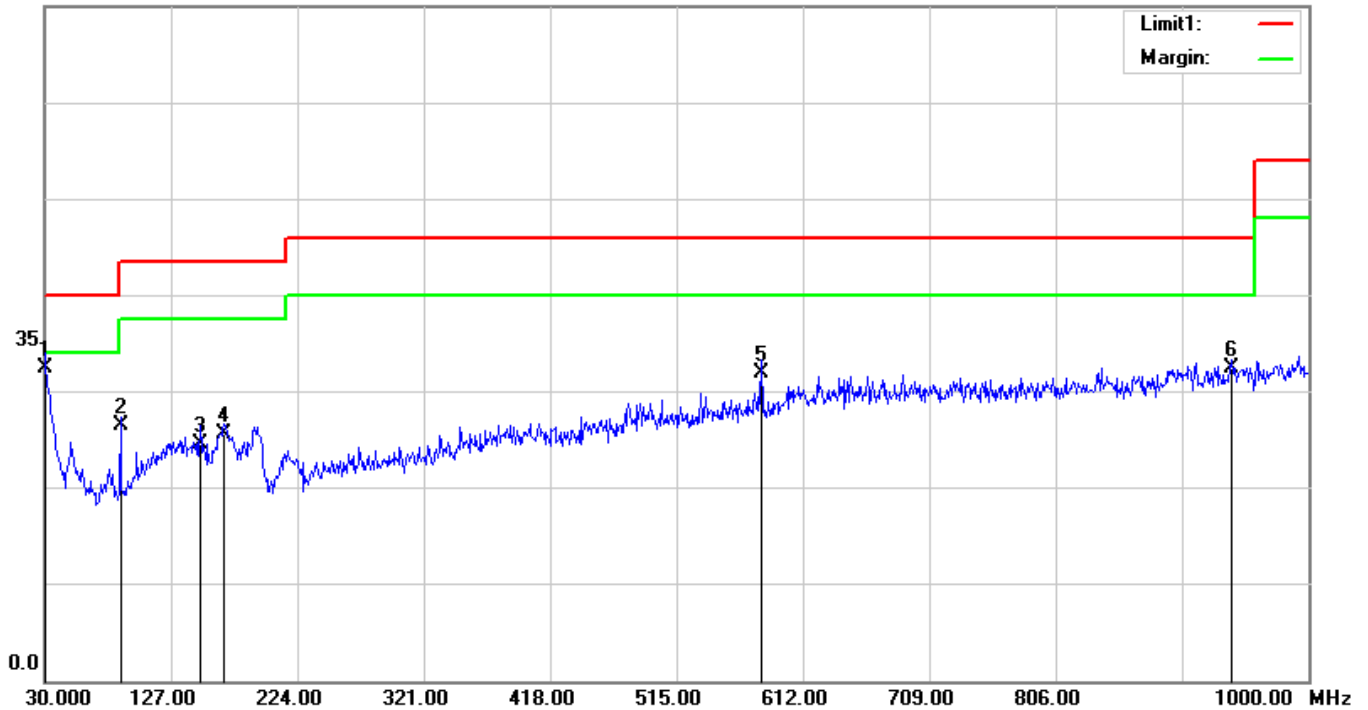
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn  
t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com



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	6.48	25.93	32.41	40.00	-7.59	100	290	QP
2	88.2000	10.09	16.42	26.51	43.50	-16.99	100	360	QP
3	149.3100	4.40	20.12	24.52	43.50	-18.98	100	325	QP
4	167.7400	6.87	18.76	25.63	43.50	-17.87	100	344	QP
5	579.9900	5.62	26.24	31.86	46.00	-14.14	100	292	QP
6	940.8300	3.23	29.18	32.41	46.00	-13.59	100	304	QP



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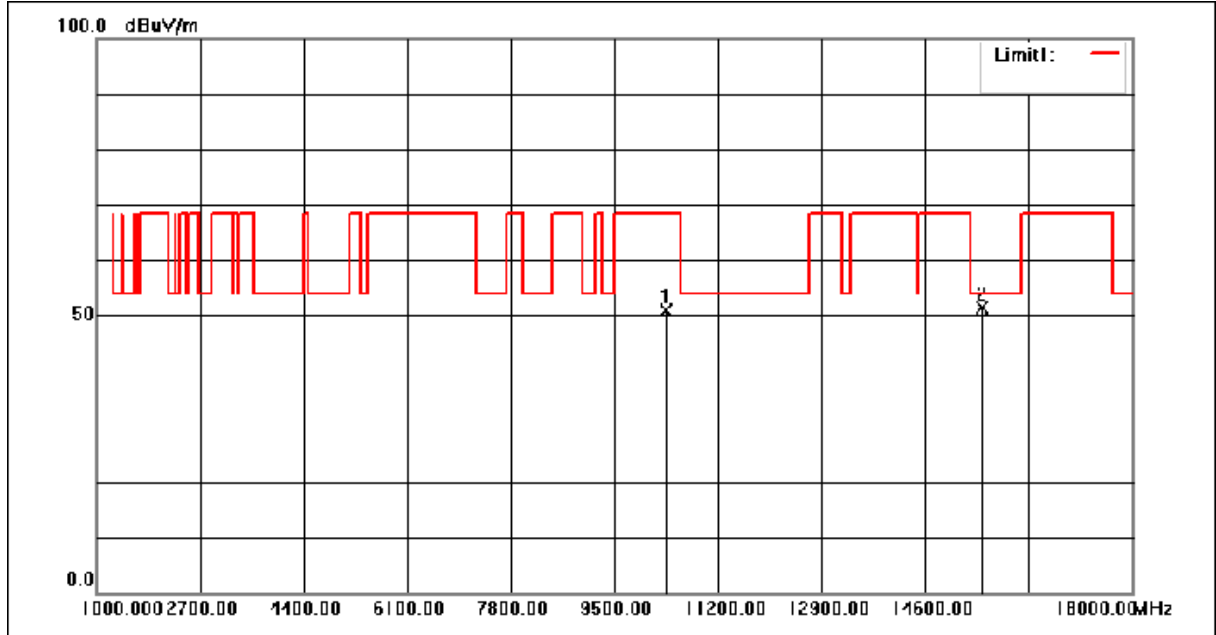
Compliance Certification Services (Kunshan) Inc.  
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Above 1GHz

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

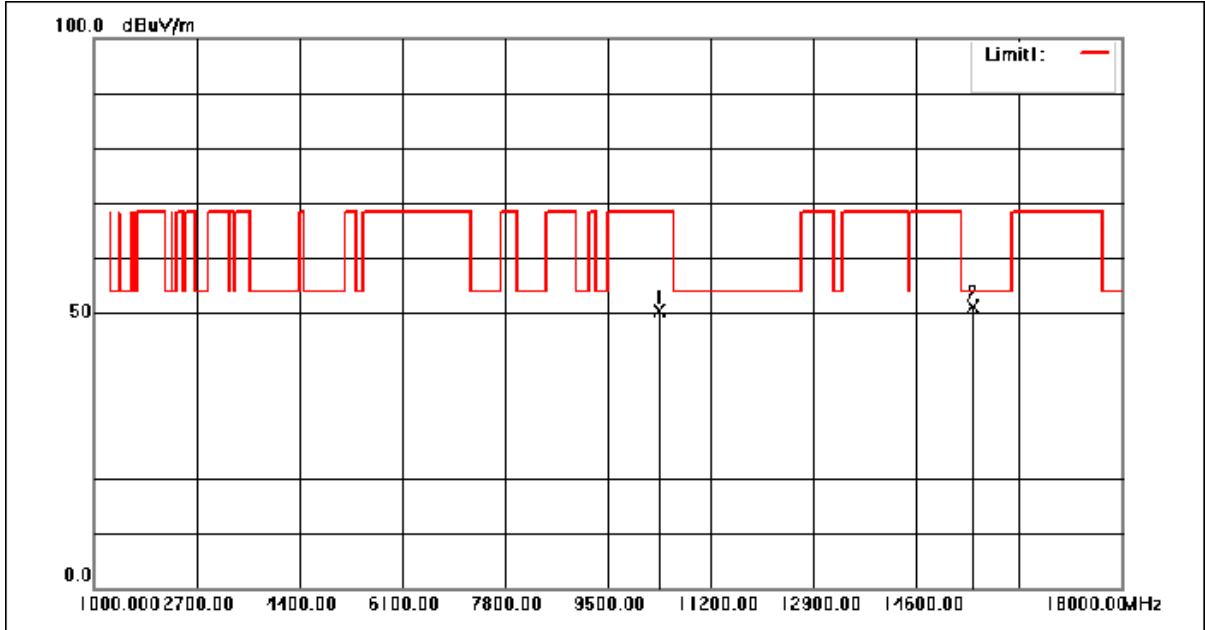


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.65	0.16	50.81	68.30	-17.49	peak
2	15540.000	45.72	5.73	51.45	54.00	-2.55	peak



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

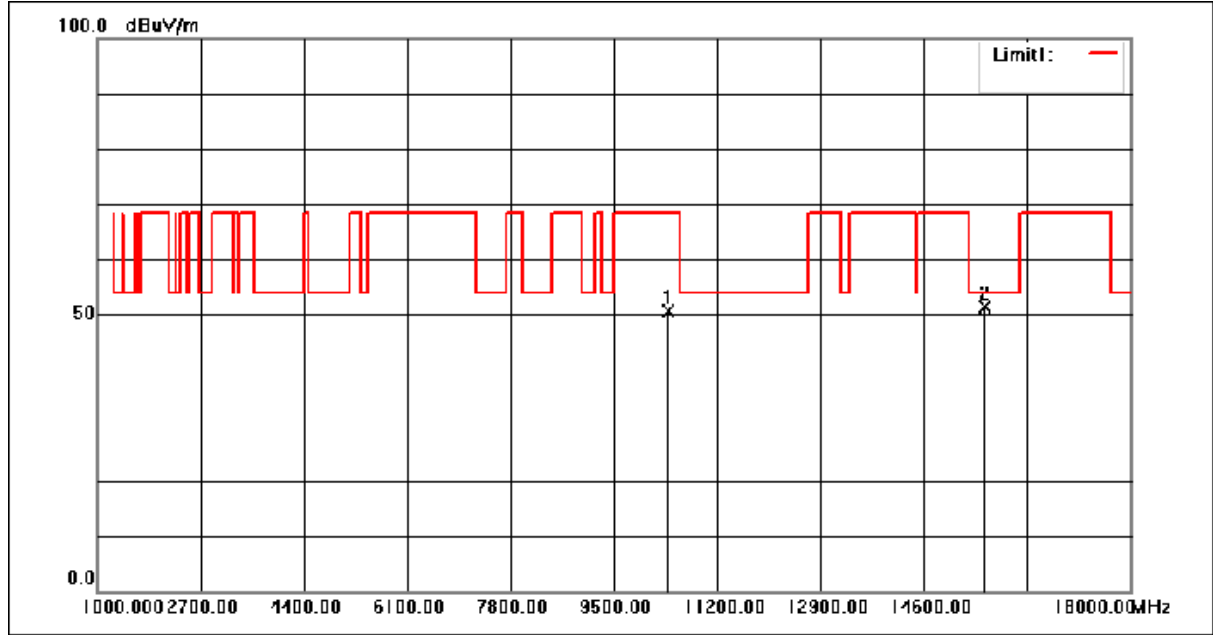


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.20	0.16	50.36	68.30	-17.94	peak
2	15540.000	45.47	5.73	51.20	54.00	-2.80	peak



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

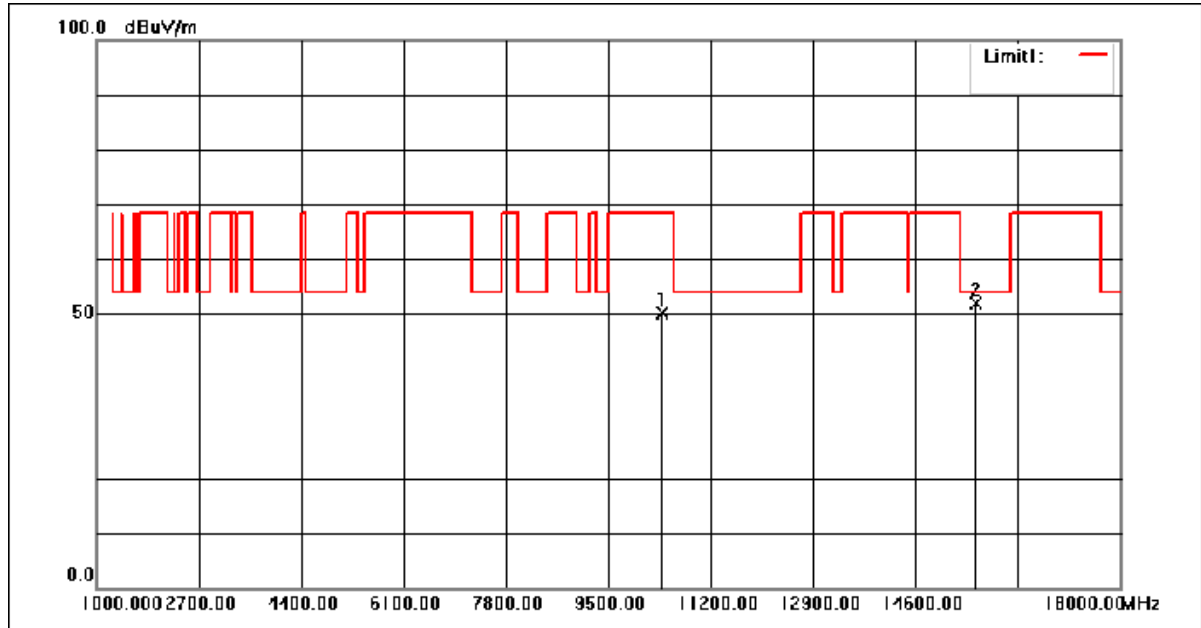


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.28	0.24	50.52	68.30	-17.78	peak
2	15600.000	45.52	5.85	51.37	54.00	-2.63	peak



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

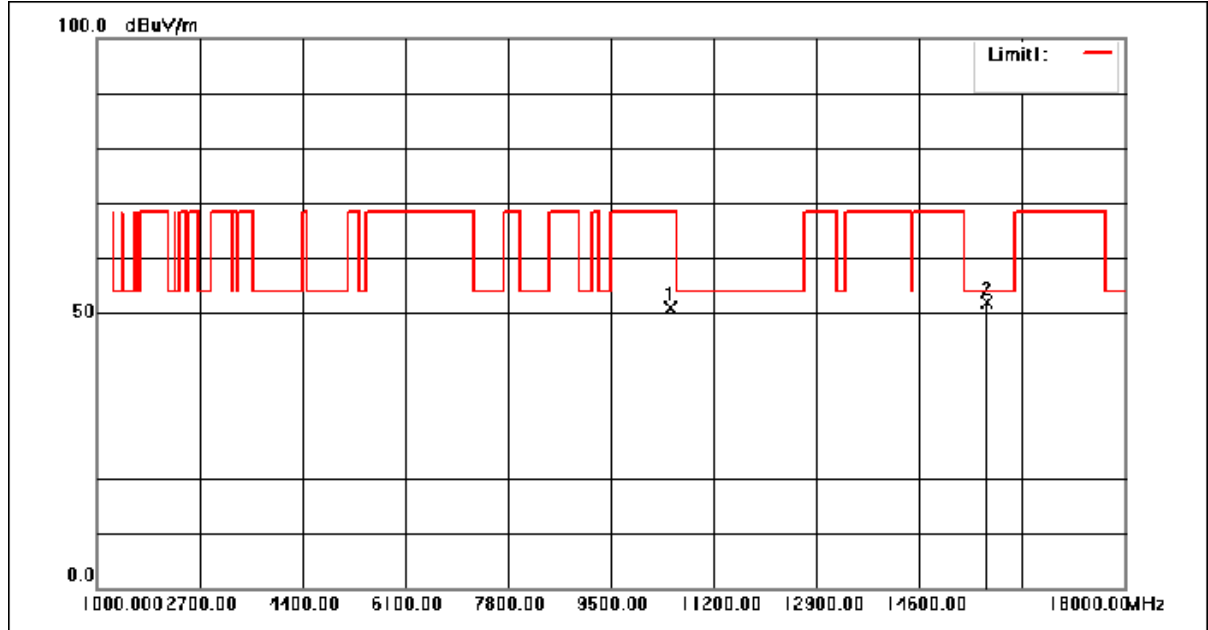


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	49.92	0.24	50.16	68.30	-18.14	peak
2	15600.000	45.98	5.85	51.83	54.00	-2.17	peak



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

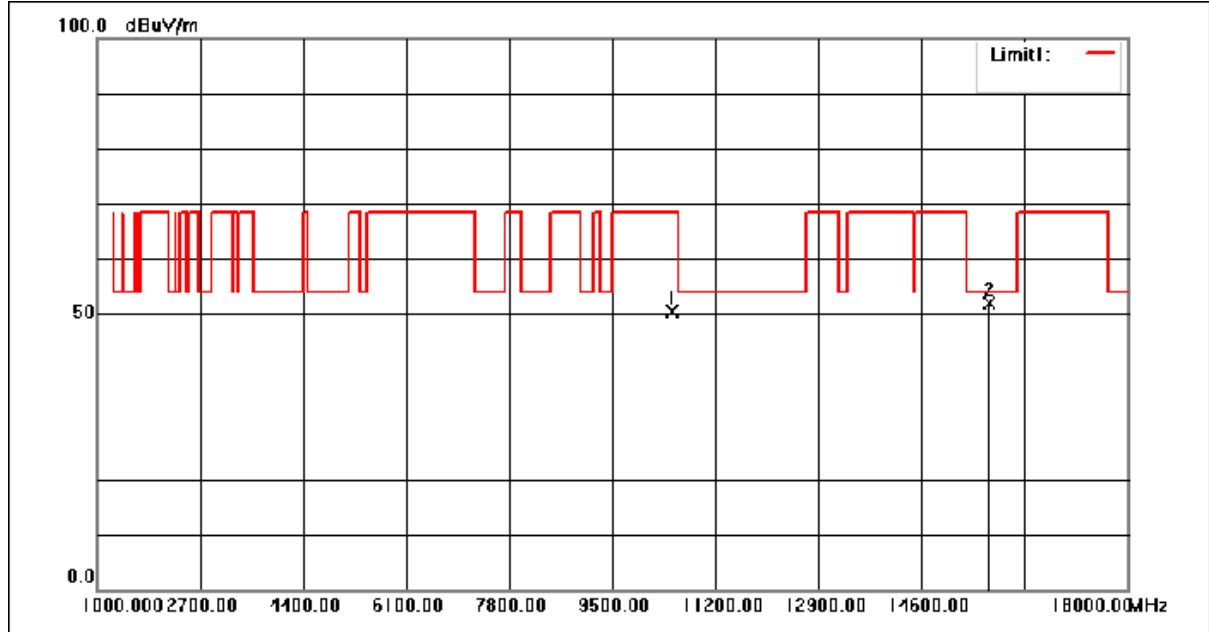


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	50.39	0.40	50.79	68.30	-17.51	peak
2	15720.000	45.76	6.10	51.86	54.00	-2.14	peak



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

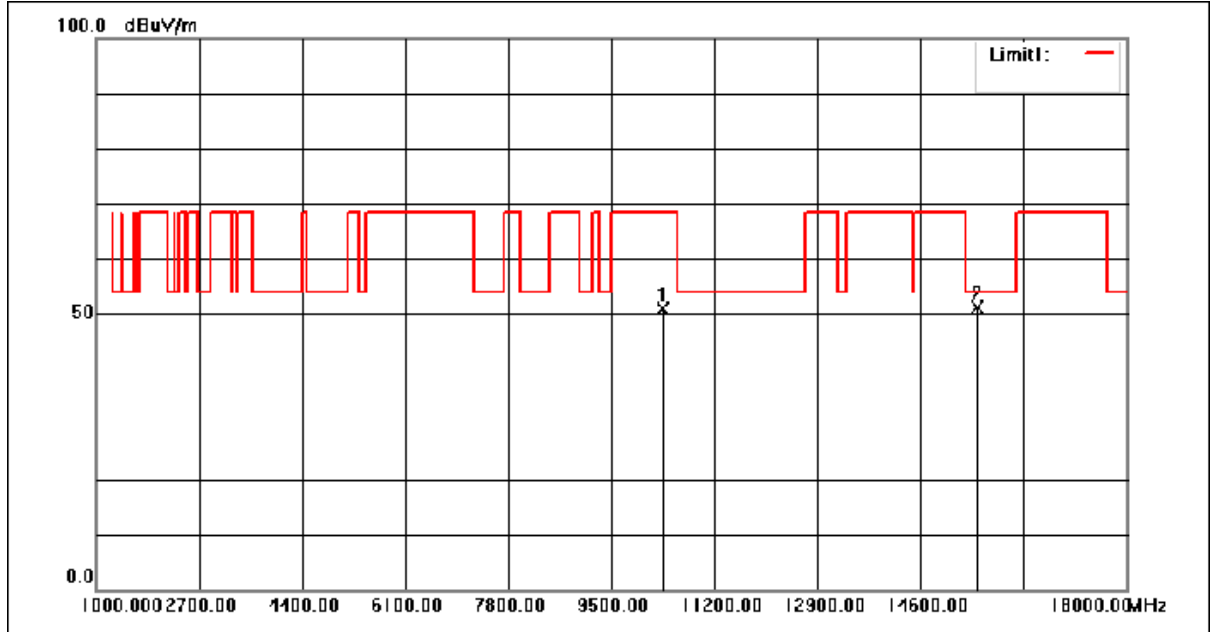


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	50.02	0.40	50.42	68.30	-17.88	peak
2	15720.000	45.88	6.10	51.98	54.00	-2.02	peak



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



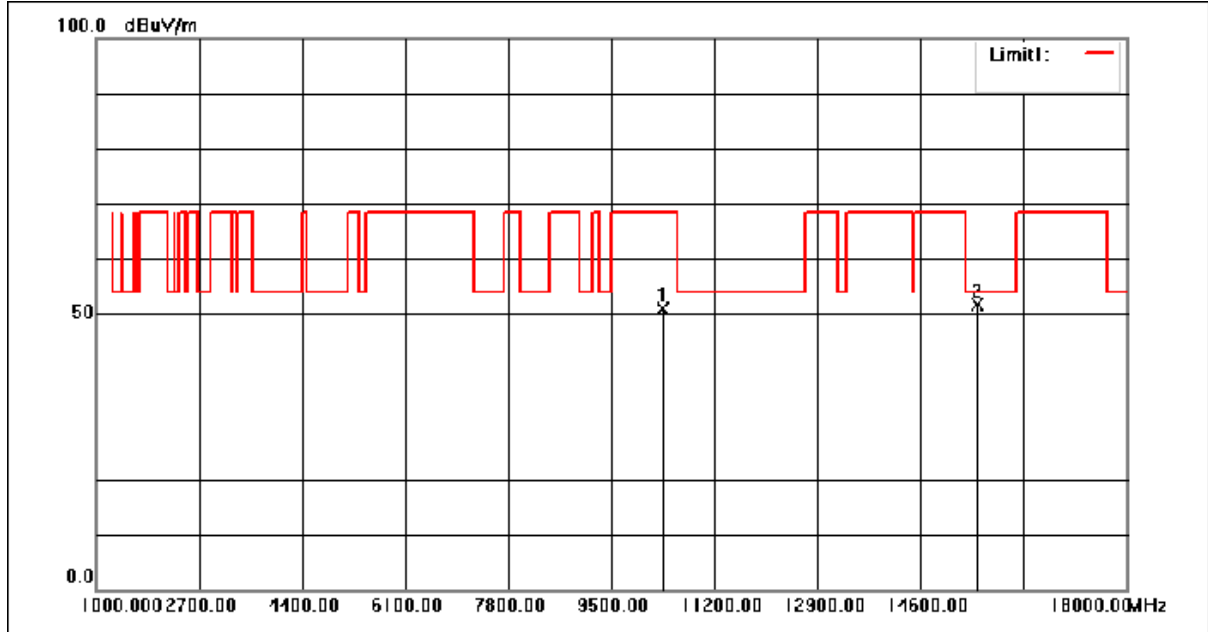
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.77	0.16	50.93	68.30	-17.37	peak
2	15540.000	45.32	5.73	51.05	54.00	-2.95	peak



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

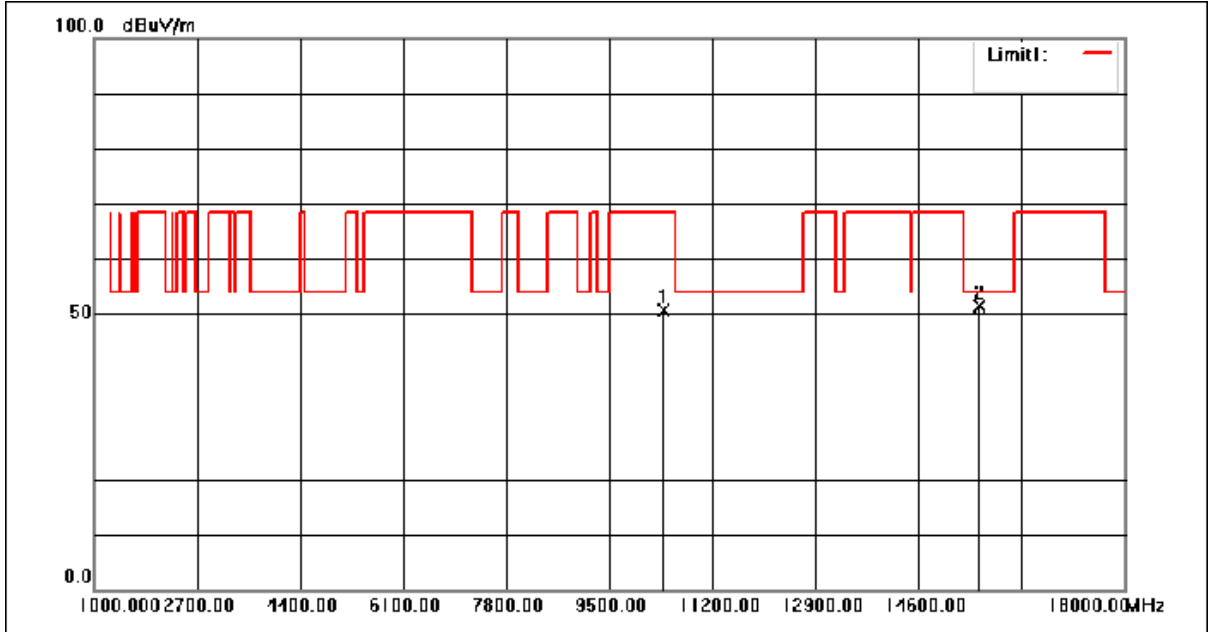


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.64	0.16	50.80	68.30	-17.50	peak
2	15540.000	45.90	5.73	51.63	54.00	-2.37	peak



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

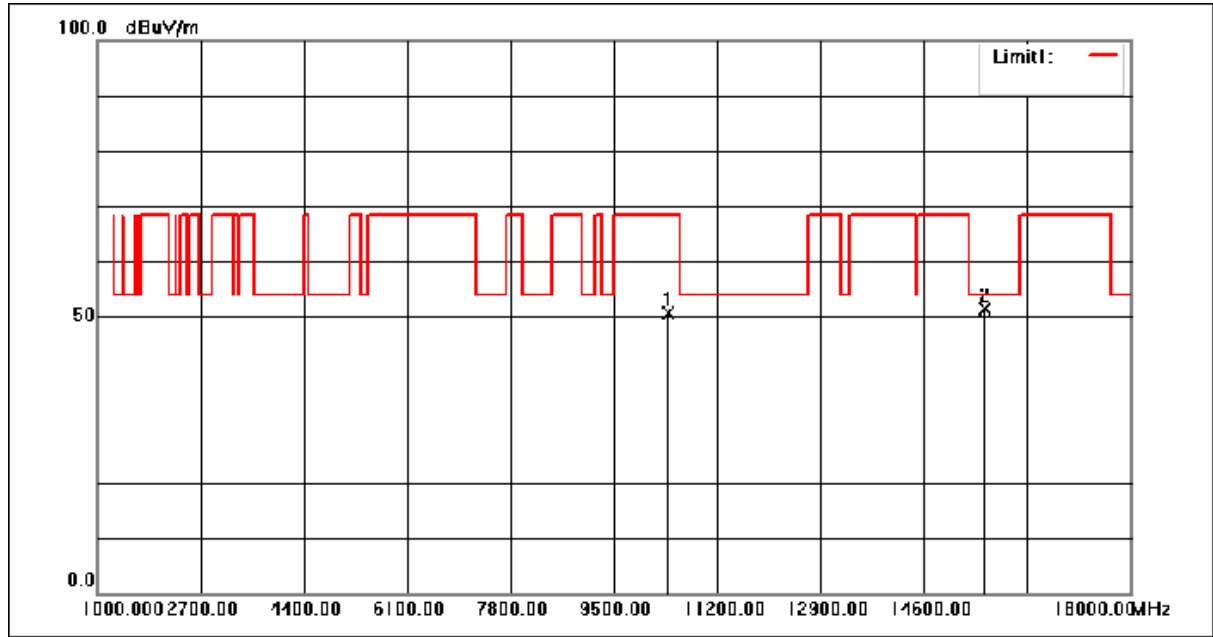


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.50	0.24	50.74	68.30	-17.56	peak
2	15600.000	45.64	5.85	51.49	54.00	-2.51	peak



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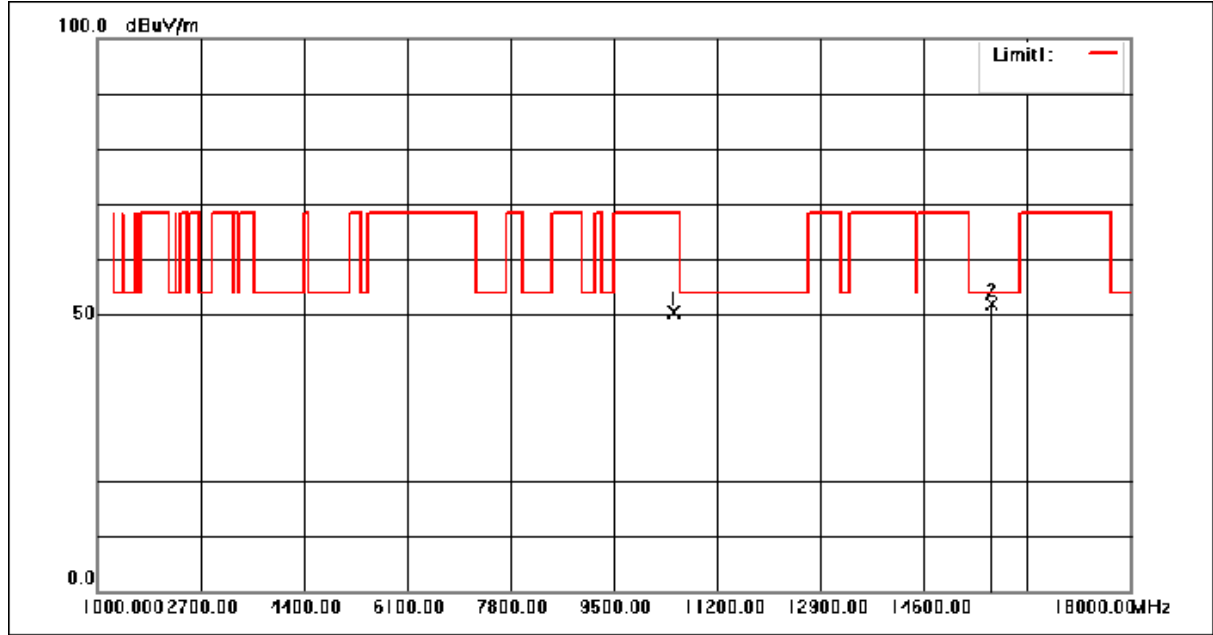


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.50	0.24	50.74	68.30	-17.56	peak
2	15600.000	45.47	5.85	51.32	54.00	-2.68	peak



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

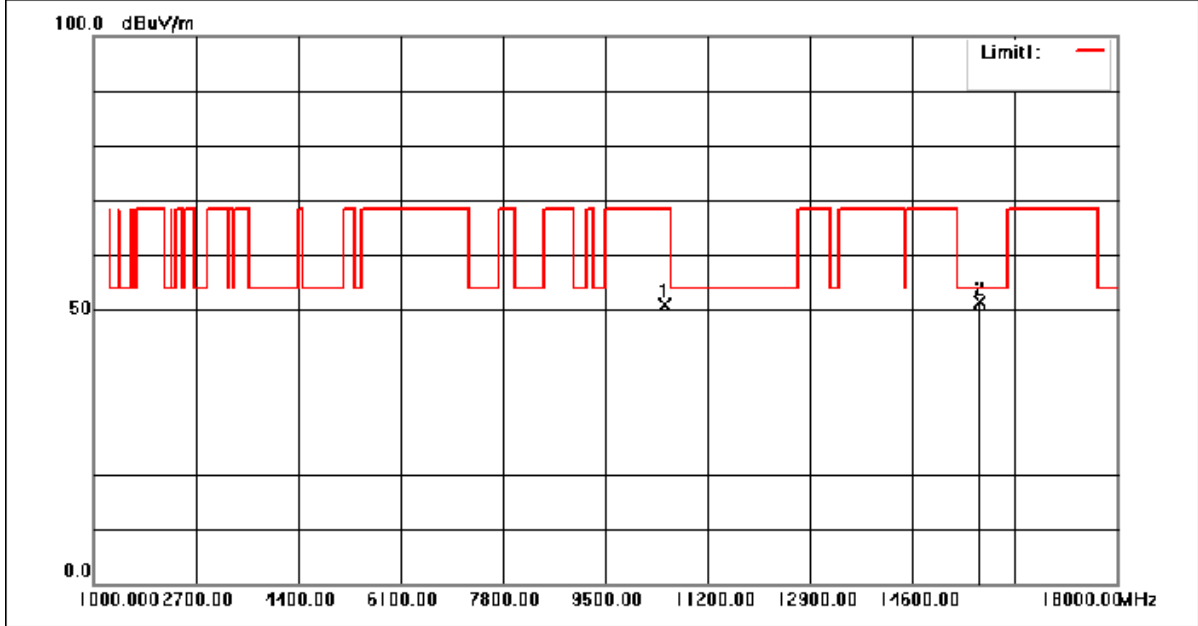


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	50.01	0.40	50.41	68.30	-17.89	peak
2	15720.000	45.72	6.10	51.82	54.00	-2.18	peak



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

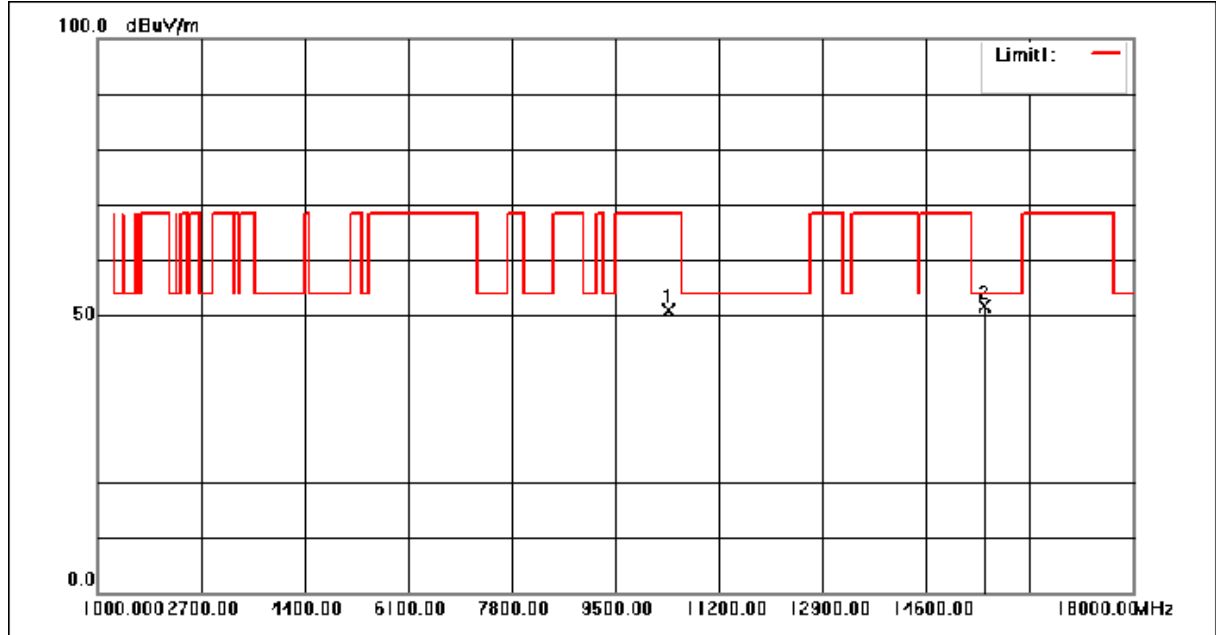


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	50.59	0.40	50.99	68.30	-17.31	peak
2	15720.000	45.16	6.10	51.26	54.00	-2.74	peak



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Mode: e; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: Low

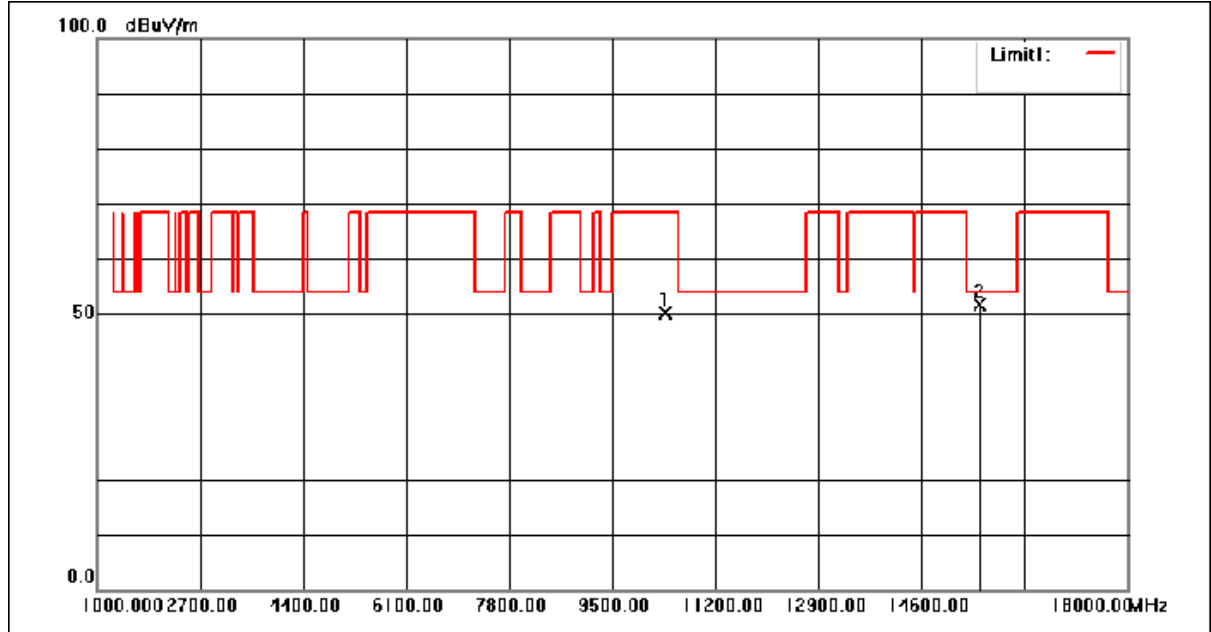


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.74	0.20	50.94	68.30	-17.36	peak
2	15570.000	45.79	5.79	51.58	54.00	-2.42	peak



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Mode: e; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: Low

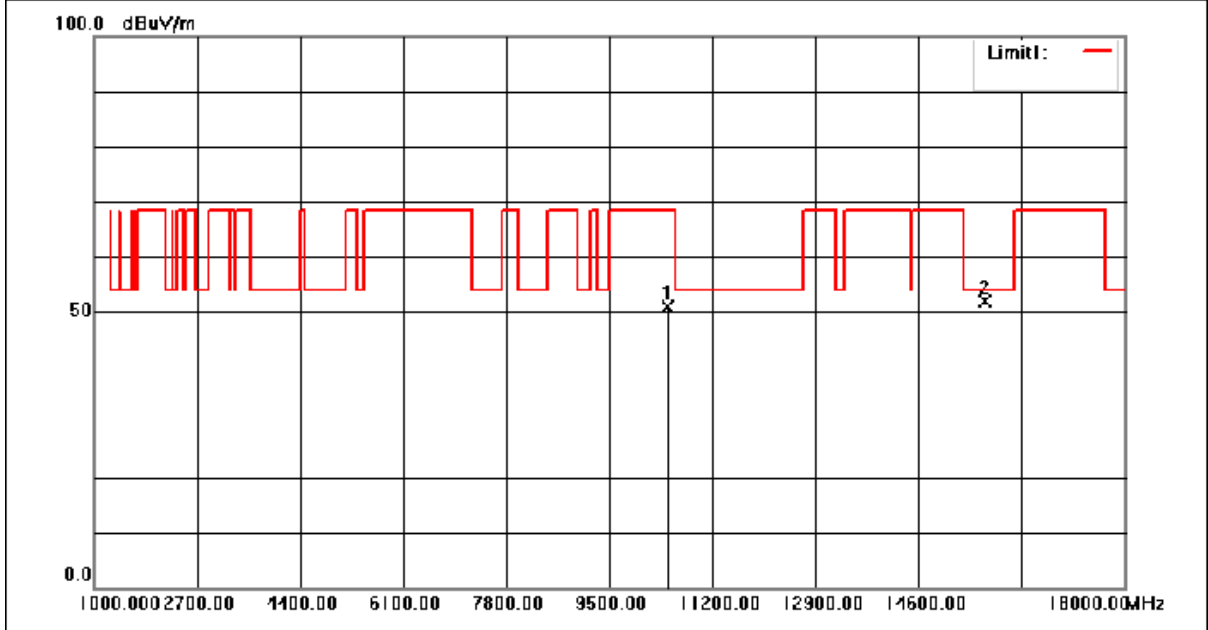


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.01	0.20	50.21	68.30	-18.09	peak
2	15570.000	45.85	5.79	51.64	54.00	-2.36	peak



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Mode: e; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: High



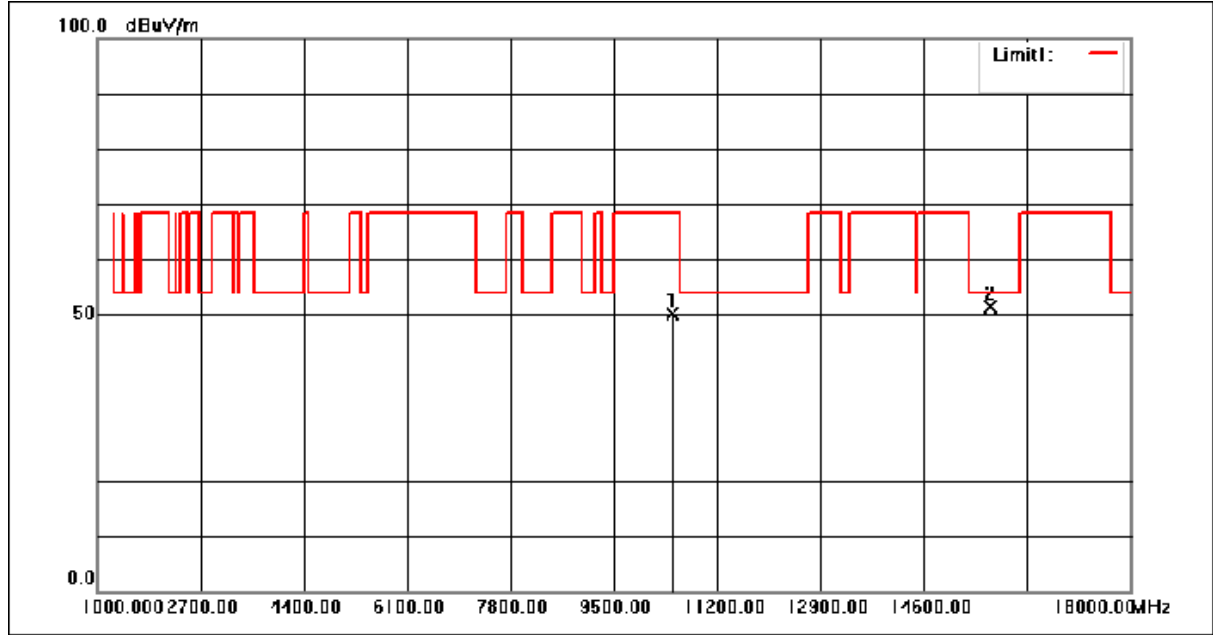
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	50.48	0.36	50.84	68.30	-17.46	peak
2	15690.000	45.93	6.04	51.97	54.00	-2.03	peak



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Mode: e; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: High

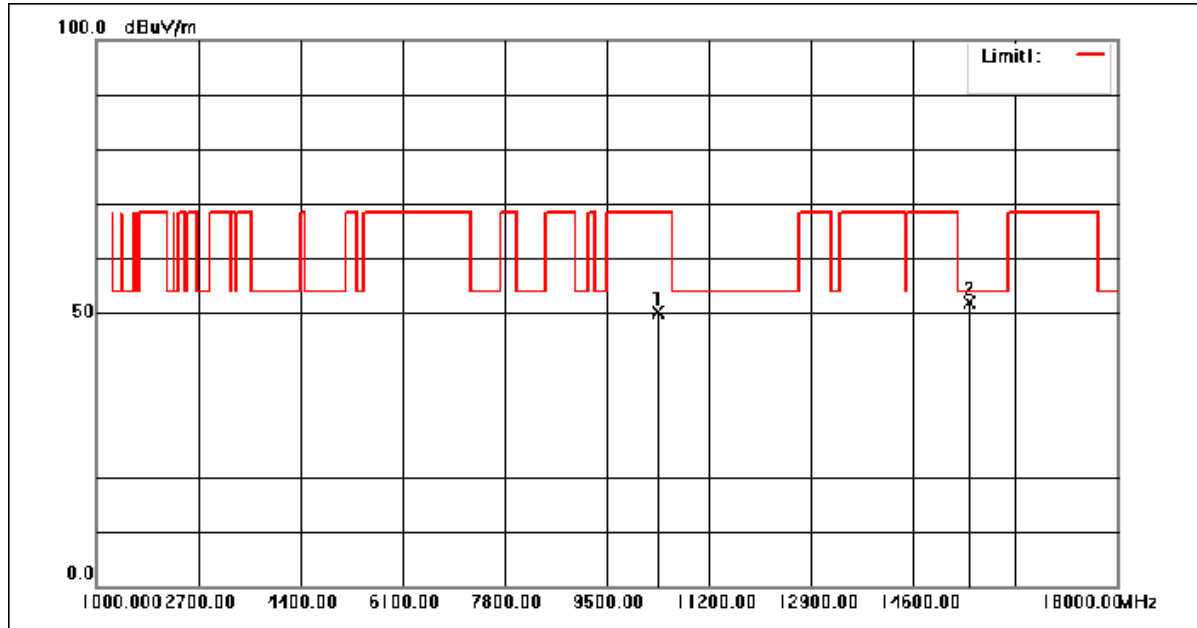


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	49.67	0.36	50.03	68.30	-18.27	peak
2	15690.000	45.38	6.04	51.42	54.00	-2.58	peak



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

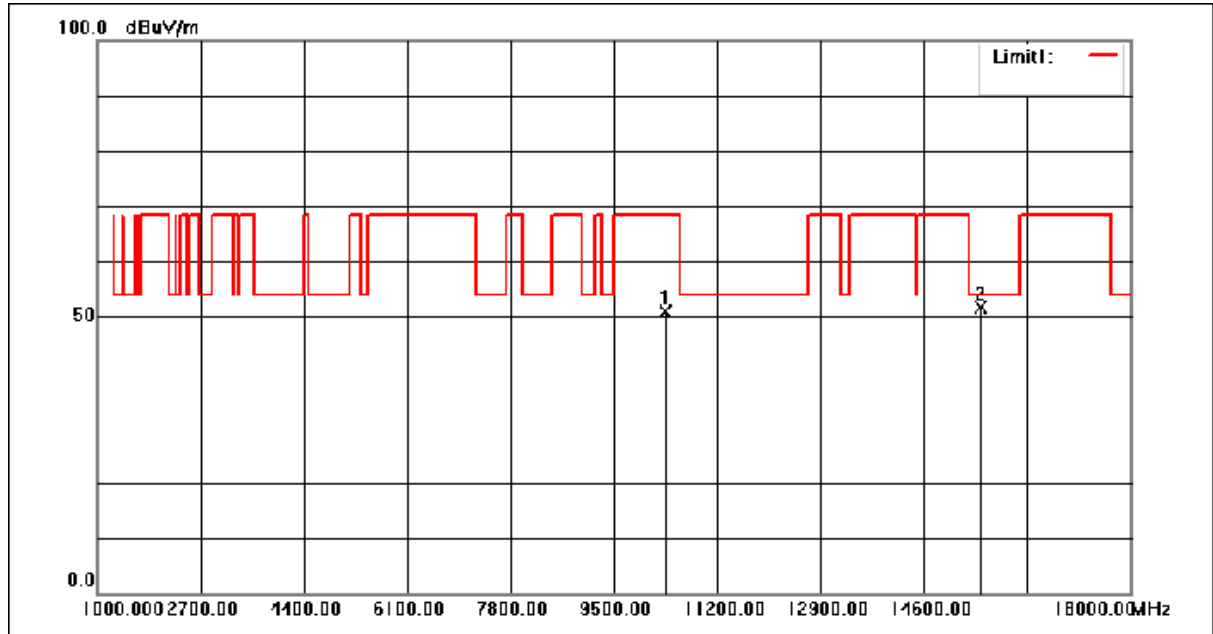


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.95	0.16	50.11	68.30	-18.19	peak
2	15540.000	46.13	5.73	51.86	54.00	-2.14	peak



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

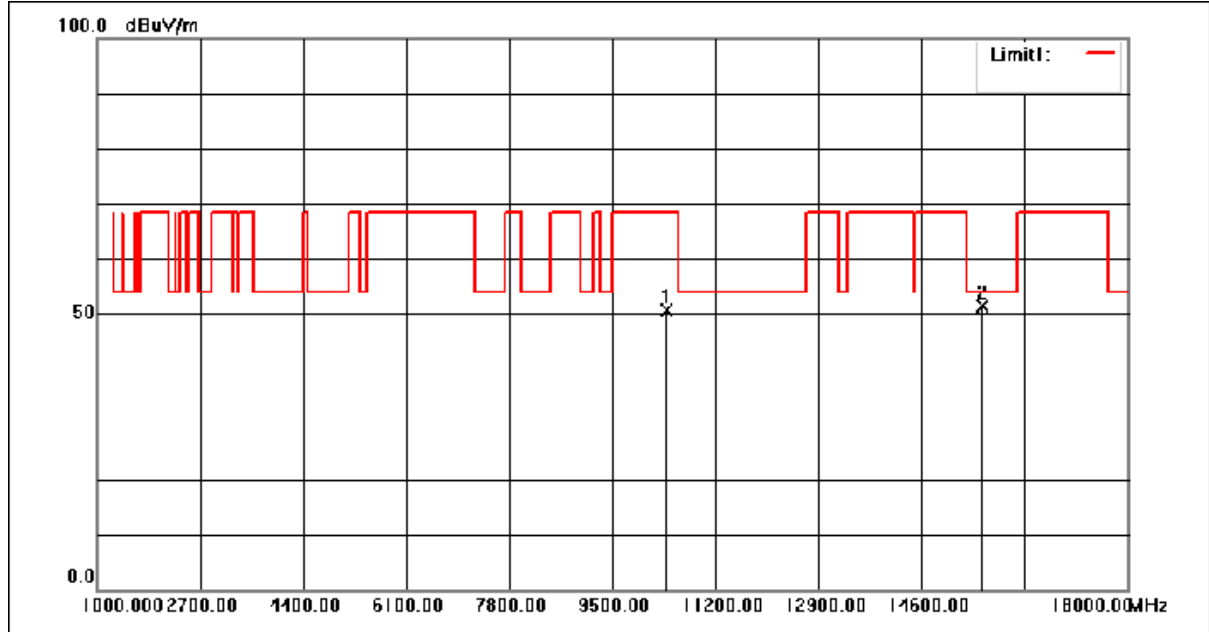


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.82	0.16	50.98	68.30	-17.32	peak
2	15540.000	45.99	5.73	51.72	54.00	-2.28	peak



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

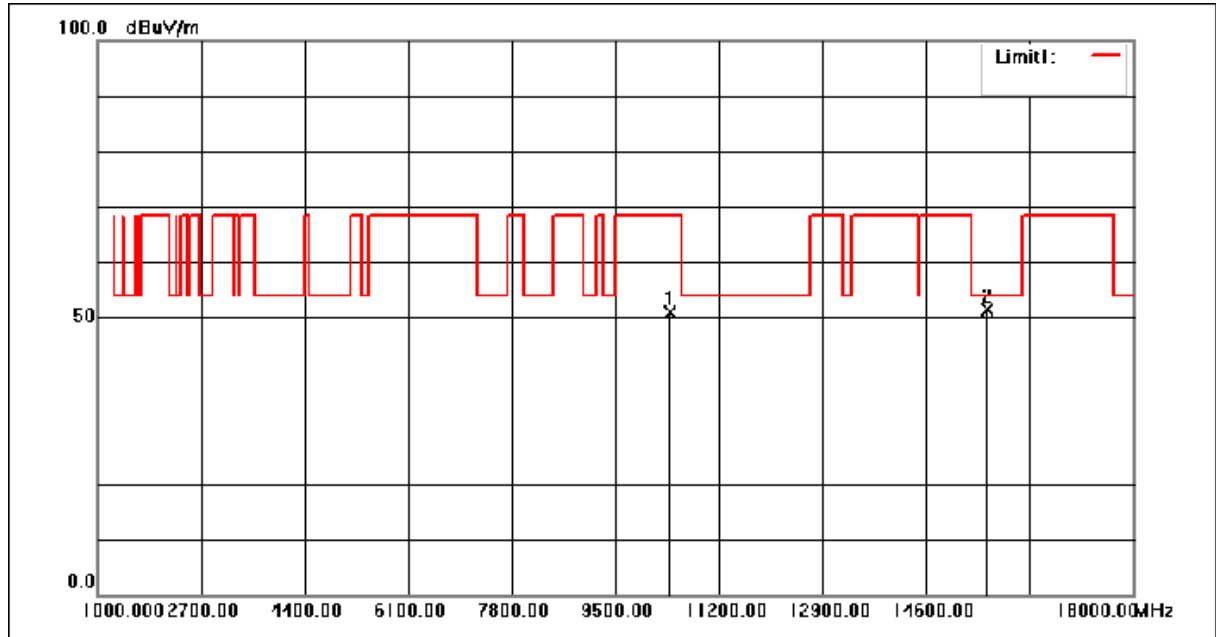


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.47	0.24	50.71	68.30	-17.59	peak
2	15600.000	45.48	5.85	51.33	54.00	-2.67	peak



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

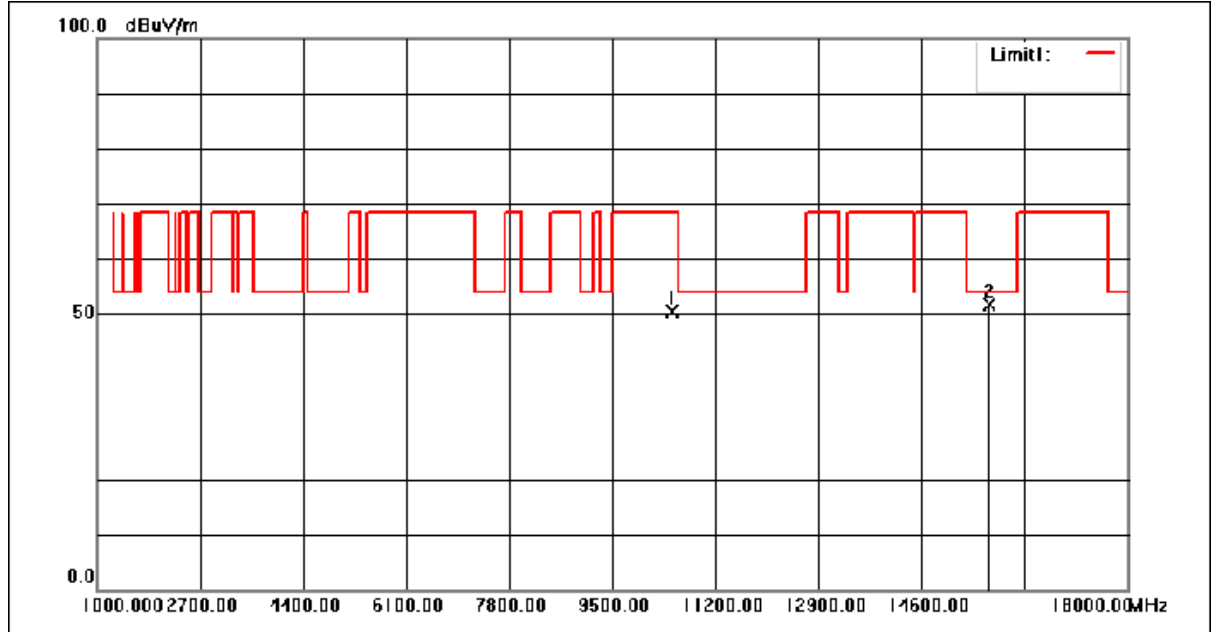


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.57	0.24	50.81	68.30	-17.49	peak
2	15600.000	45.46	5.85	51.31	54.00	-2.69	peak



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

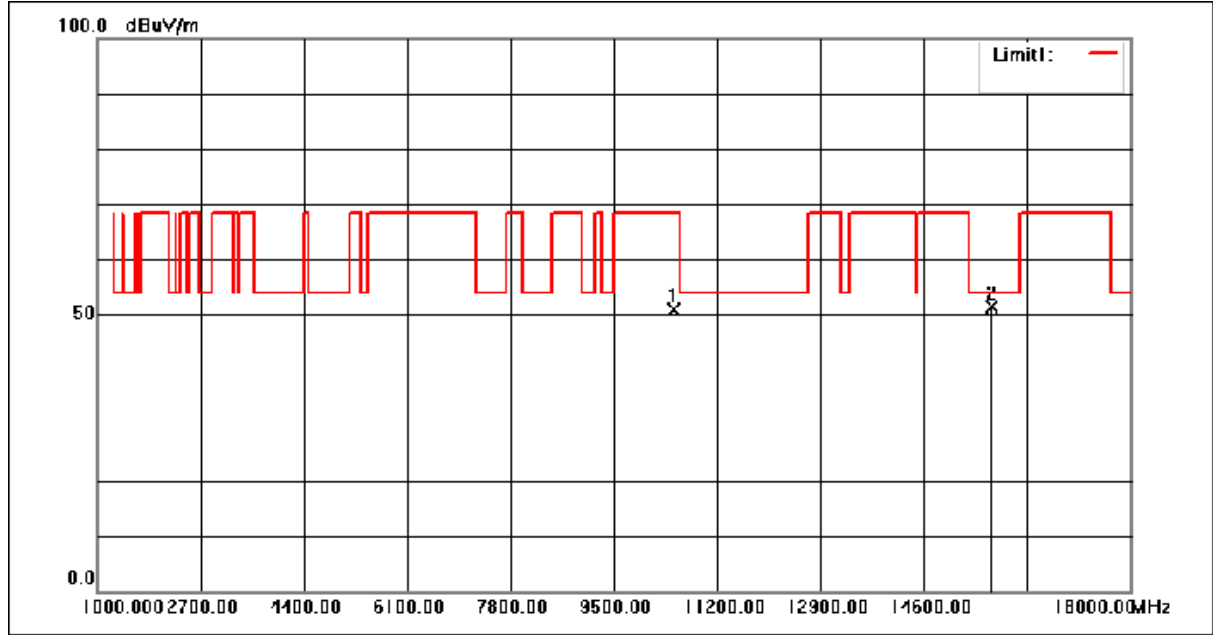


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.94	0.40	50.34	68.30	-17.96	peak
2	15720.000	45.47	6.10	51.57	54.00	-2.43	peak



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

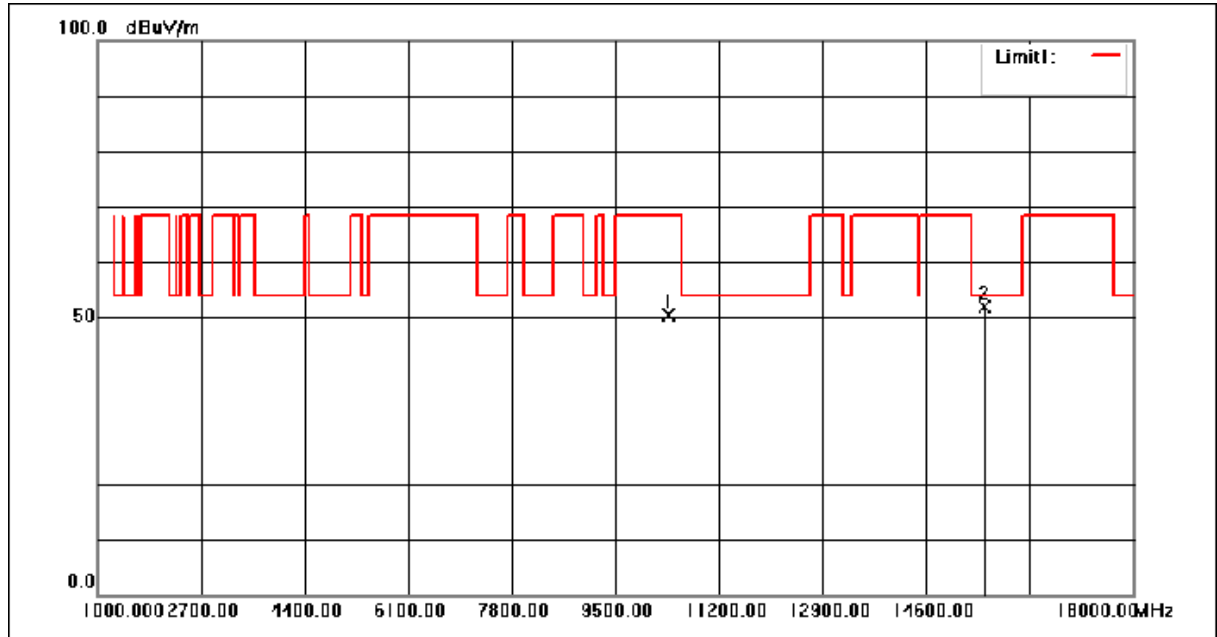


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	50.45	0.40	50.85	68.30	-17.45	peak
2	15720.000	45.17	6.10	51.27	54.00	-2.73	peak



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Mode: e; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: Low



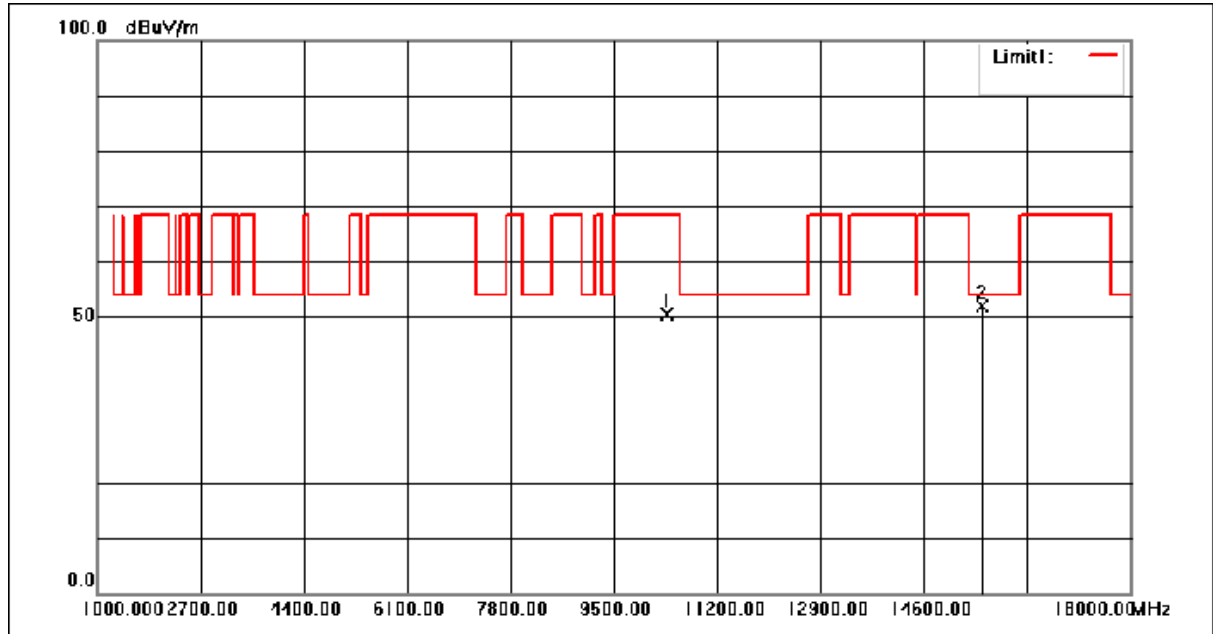
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.21	0.20	50.41	68.30	-17.89	peak
2	15570.000	46.06	5.79	51.85	54.00	-2.15	peak



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Mode: e; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: Low

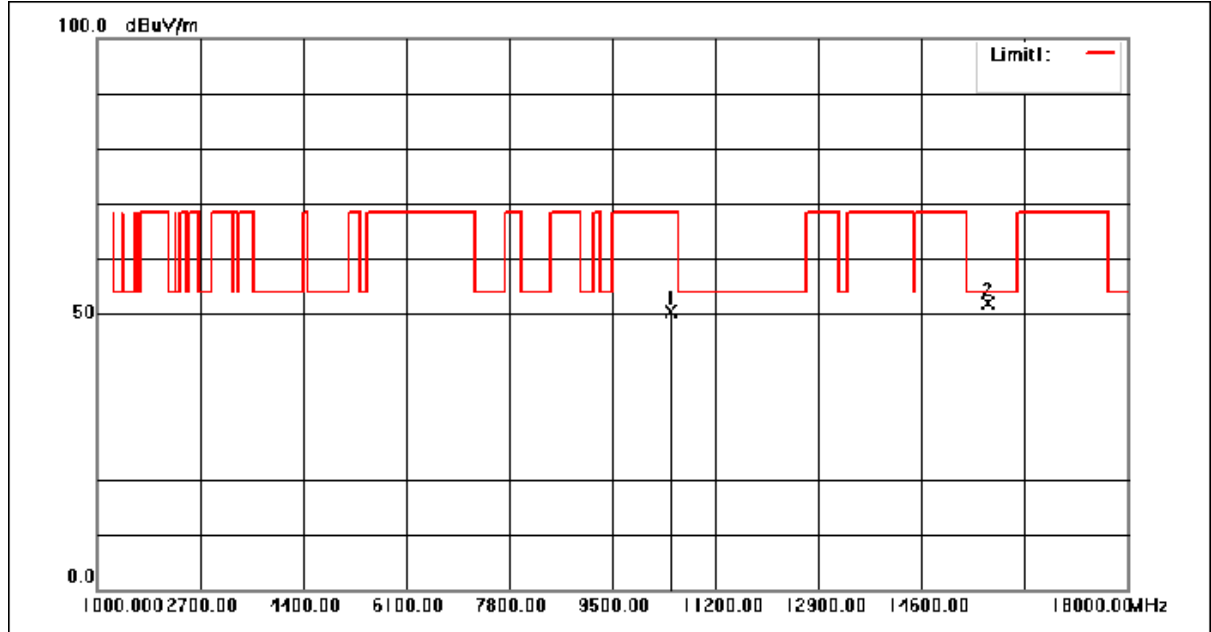


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.18	0.20	50.38	68.30	-17.92	peak
2	15570.000	46.14	5.79	51.93	54.00	-2.07	peak



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Mode: e; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: High

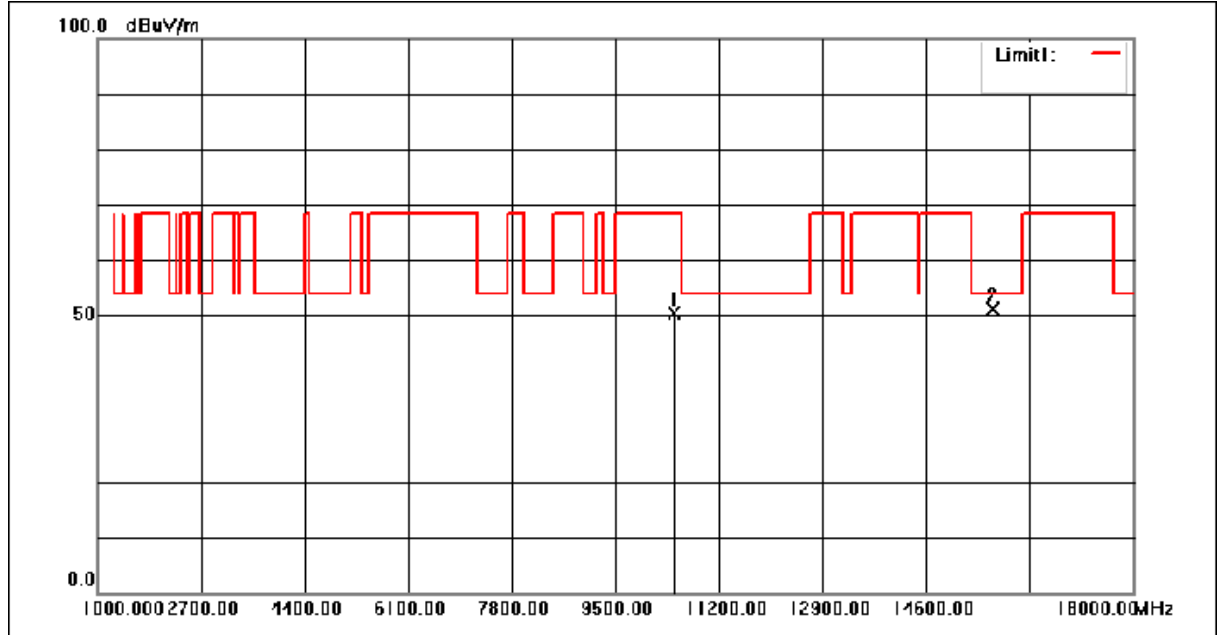


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	50.14	0.36	50.50	68.30	-17.80	peak
2	15690.000	45.88	6.04	51.92	54.00	-2.08	peak



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Mode: e; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: High

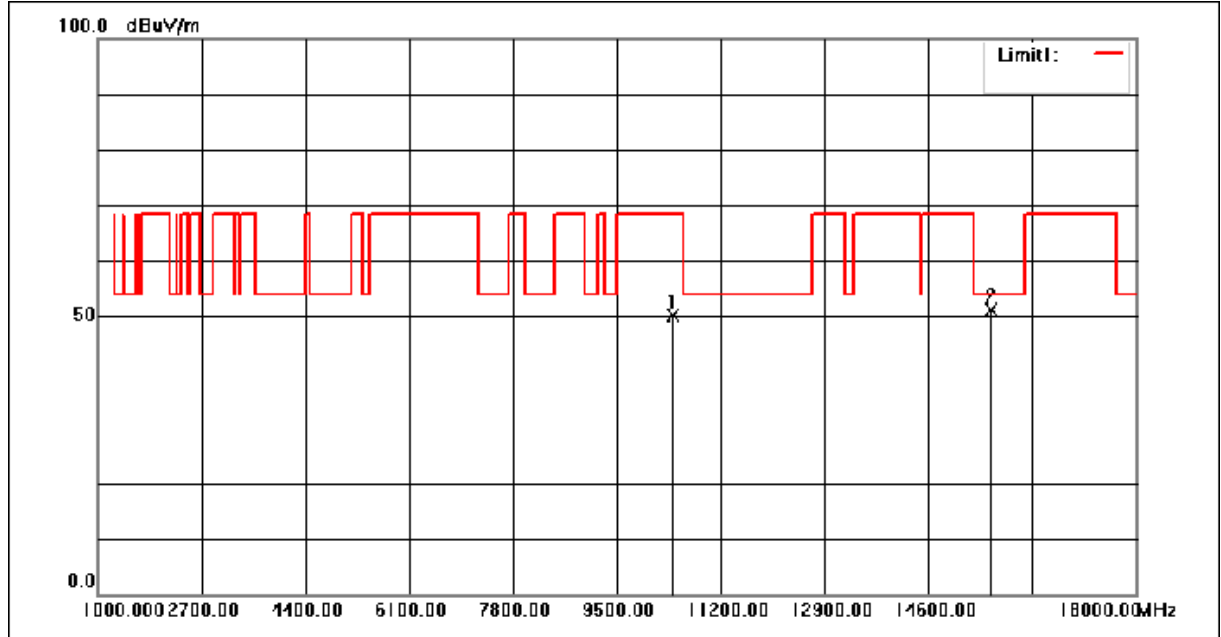


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	50.12	0.36	50.48	68.30	-17.82	peak
2	15690.000	45.12	6.04	51.16	54.00	-2.84	peak



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Mode: e; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: middle

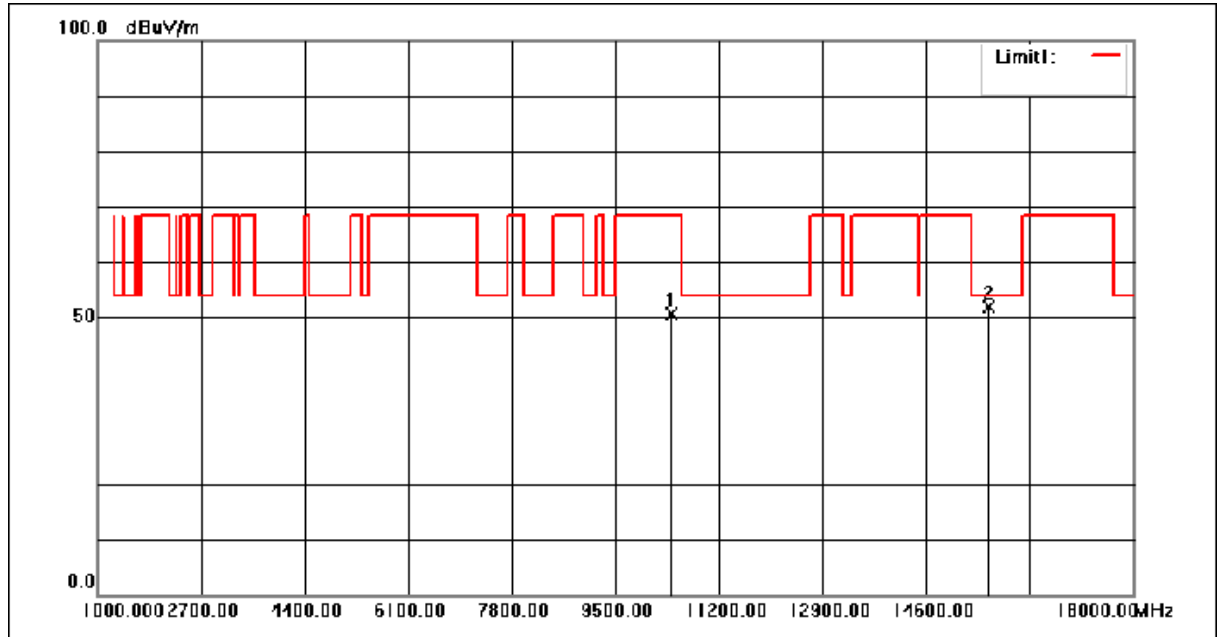


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	49.91	0.28	50.19	68.30	-18.11	peak
2	15630.000	45.31	5.92	51.23	54.00	-2.77	peak



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Mode: e; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: middle

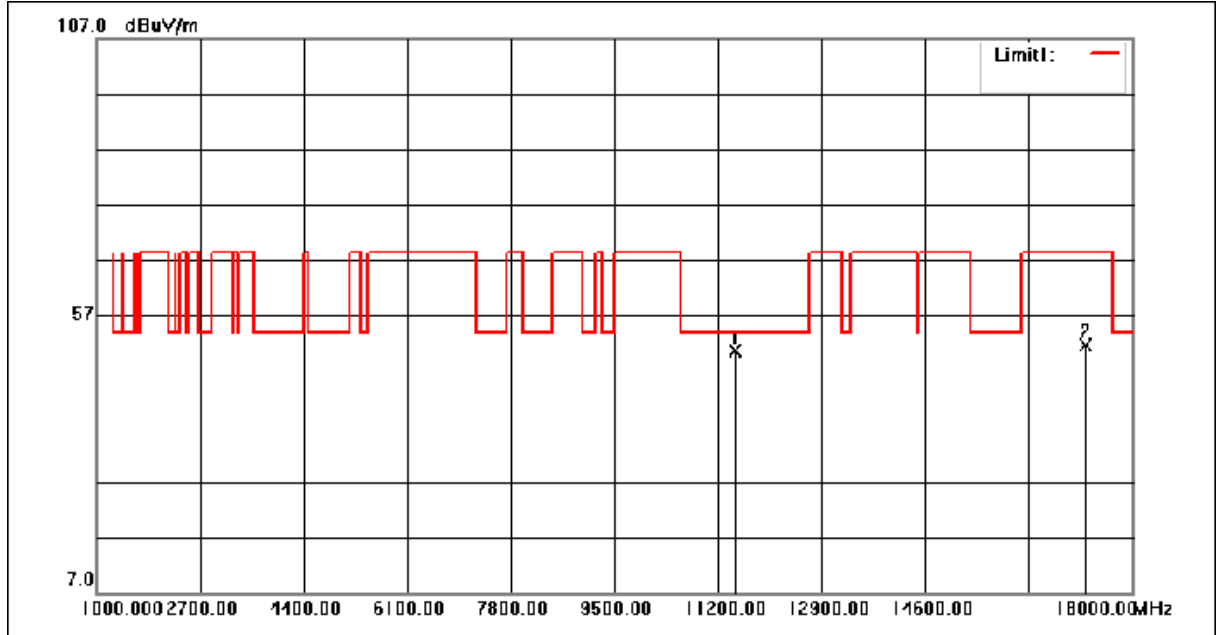


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	50.25	0.28	50.53	68.30	-17.77	peak
2	15630.000	45.91	5.92	51.83	54.00	-2.17	peak



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

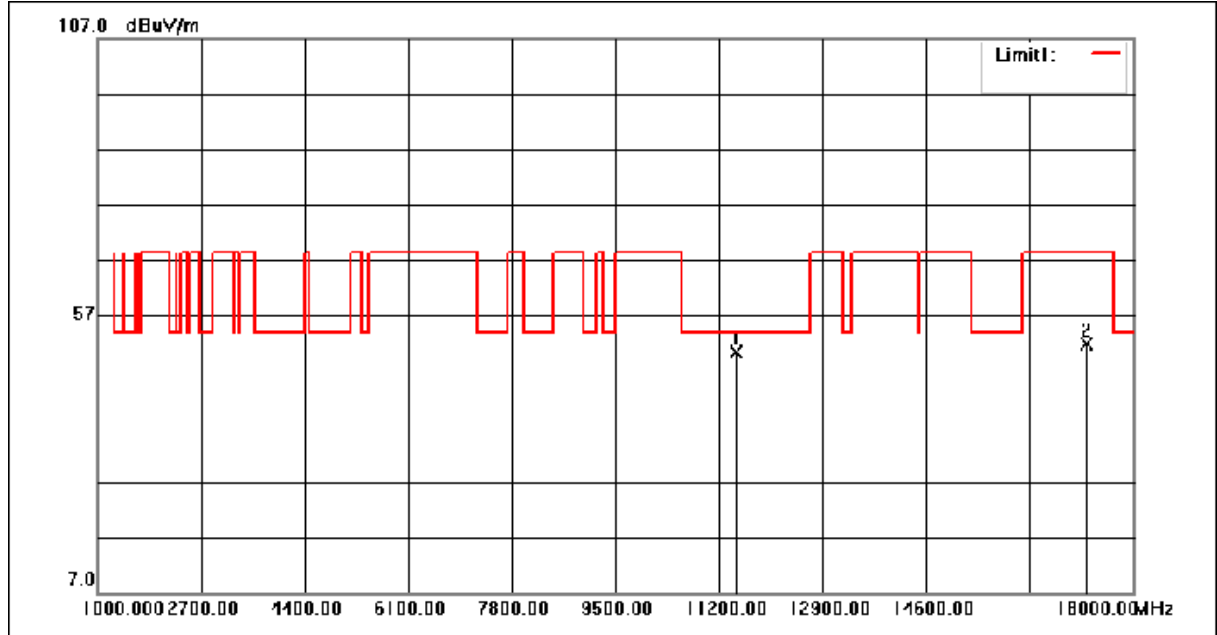


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.58	0.94	50.52	54.00	-3.48	peak
2	17235.000	42.60	9.05	51.65	68.30	-16.65	peak



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

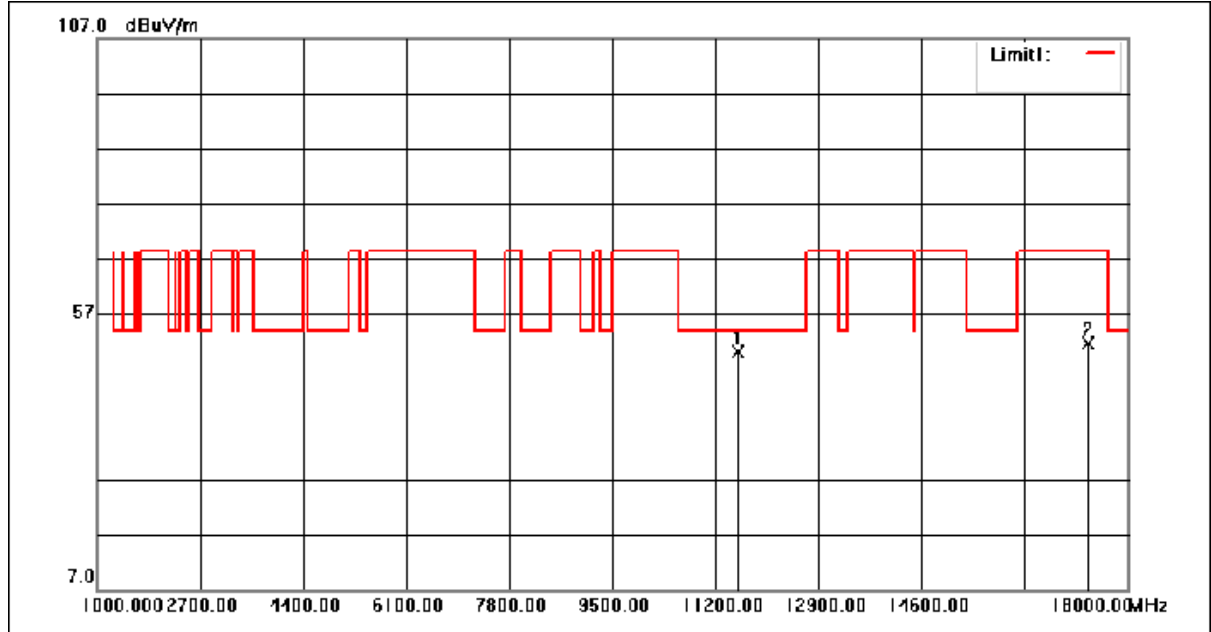


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.48	0.94	50.42	54.00	-3.58	peak
2	17235.000	42.90	9.05	51.95	68.30	-16.35	peak



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



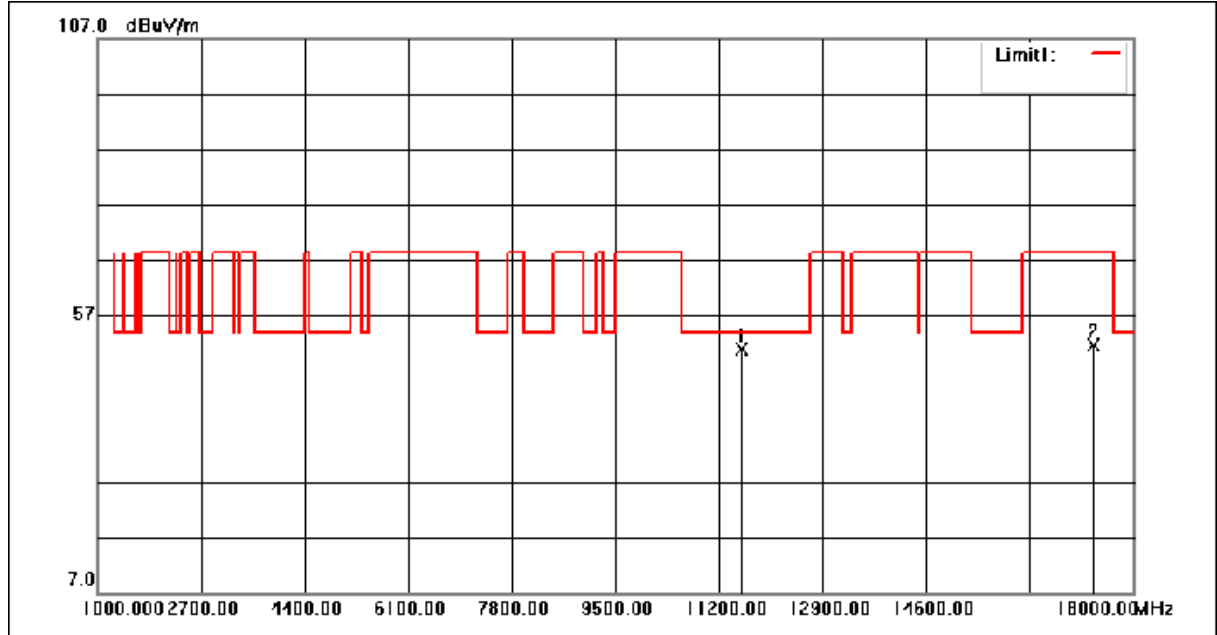
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.05	1.18	50.23	54.00	-3.77	peak
2	17355.000	42.56	8.98	51.54	68.30	-16.76	peak



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Mode: f; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: middle

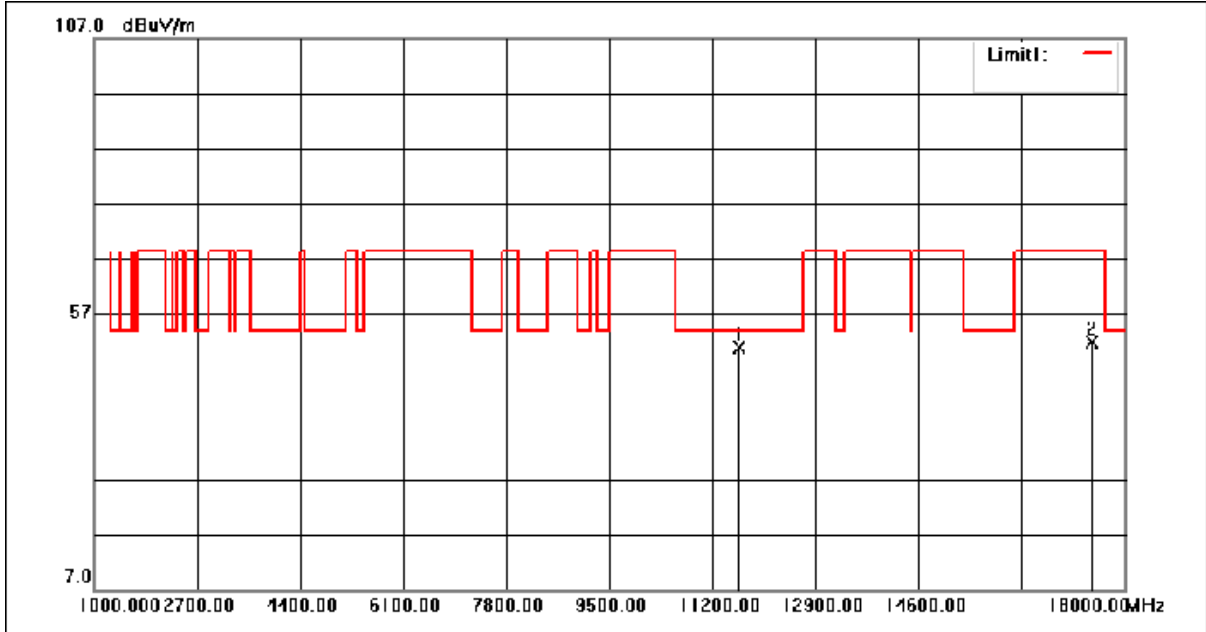


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.58	1.18	50.76	54.00	-3.24	peak
2	17355.000	42.70	8.98	51.68	68.30	-16.62	peak



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

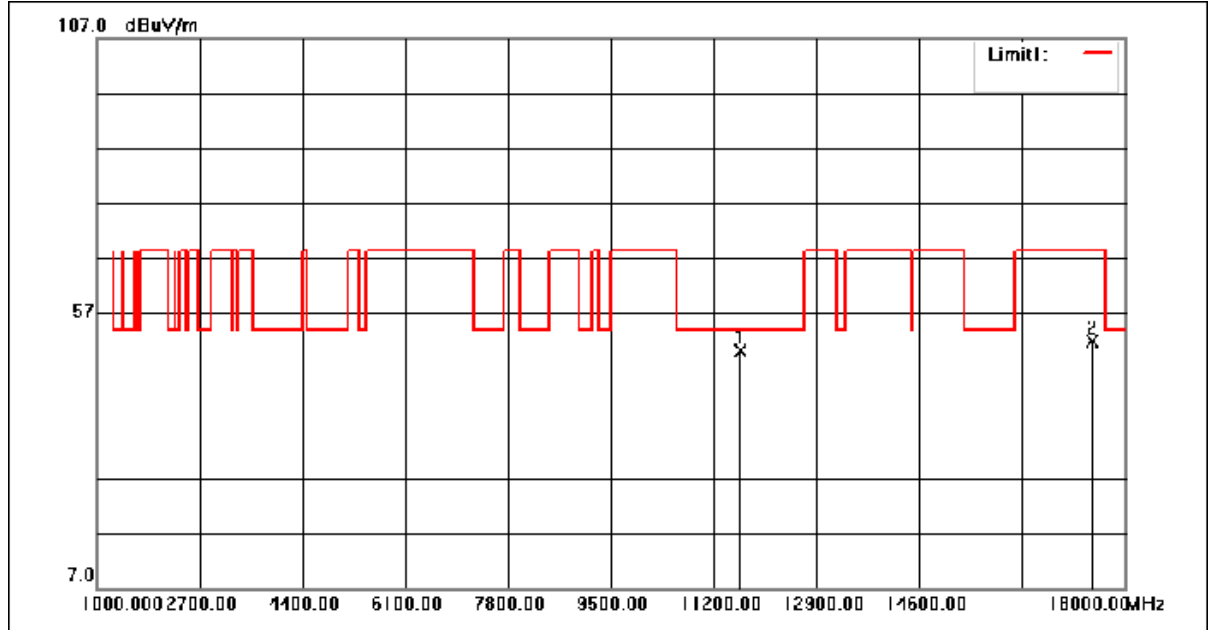


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.31	1.45	50.76	54.00	-3.24	peak
2	17475.000	42.98	8.90	51.88	68.30	-16.42	peak



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

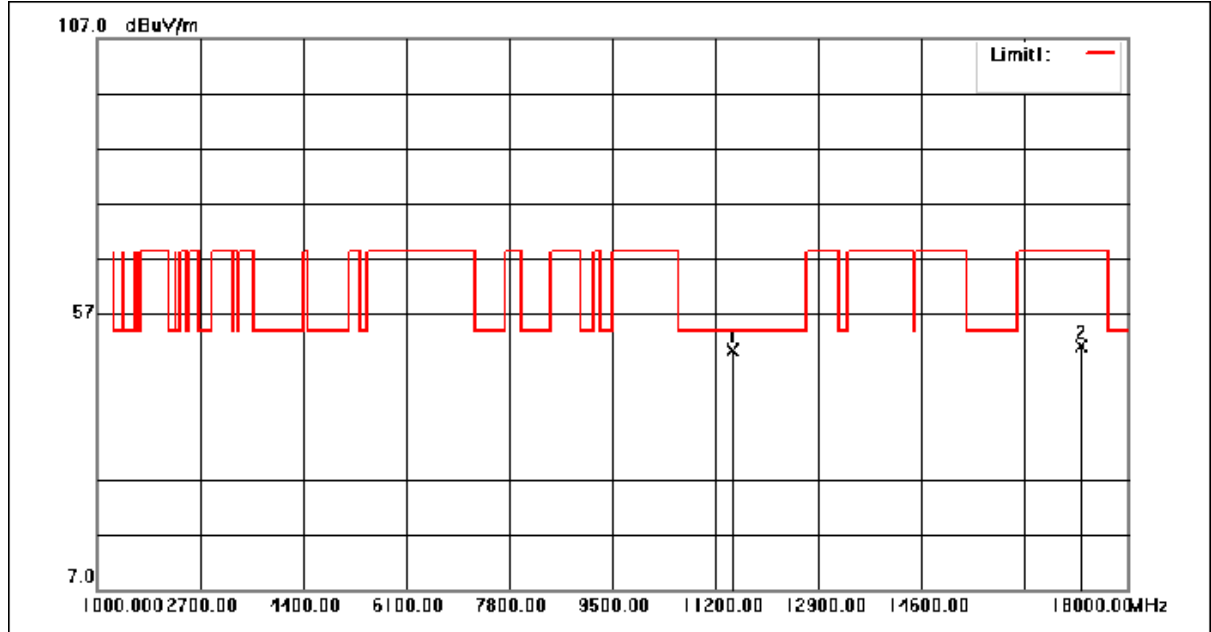


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.61	1.45	50.06	54.00	-3.94	peak
2	17475.000	43.03	8.90	51.93	68.30	-16.37	peak



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

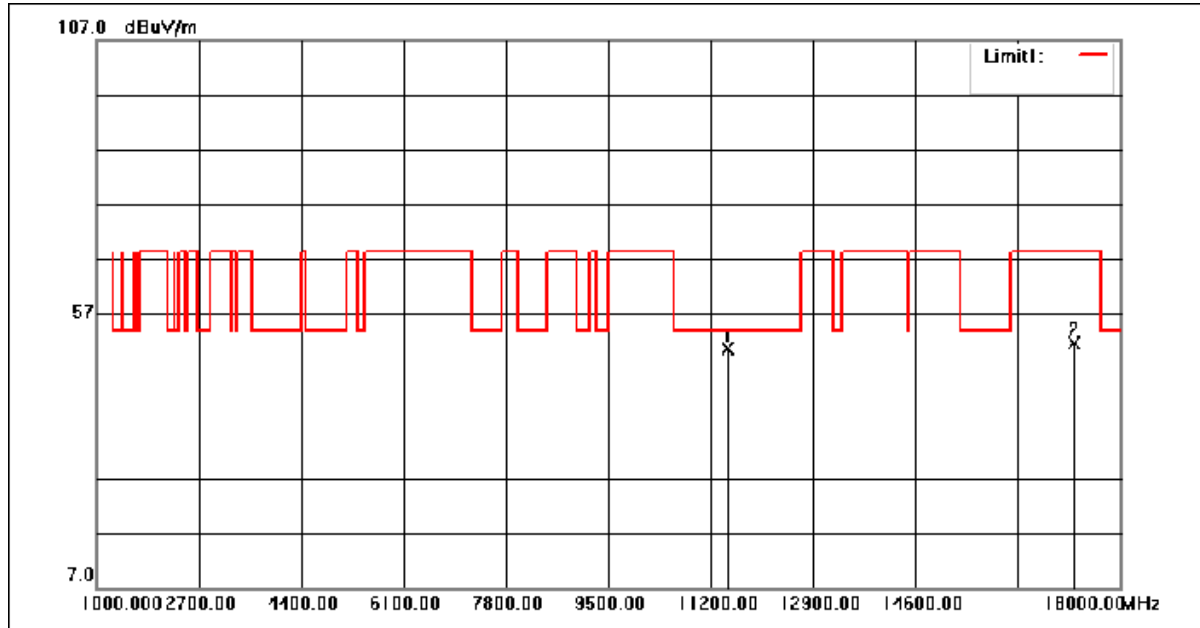


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.42	0.94	50.36	54.00	-3.64	peak
2	17235.000	42.00	9.05	51.05	68.30	-17.25	peak



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

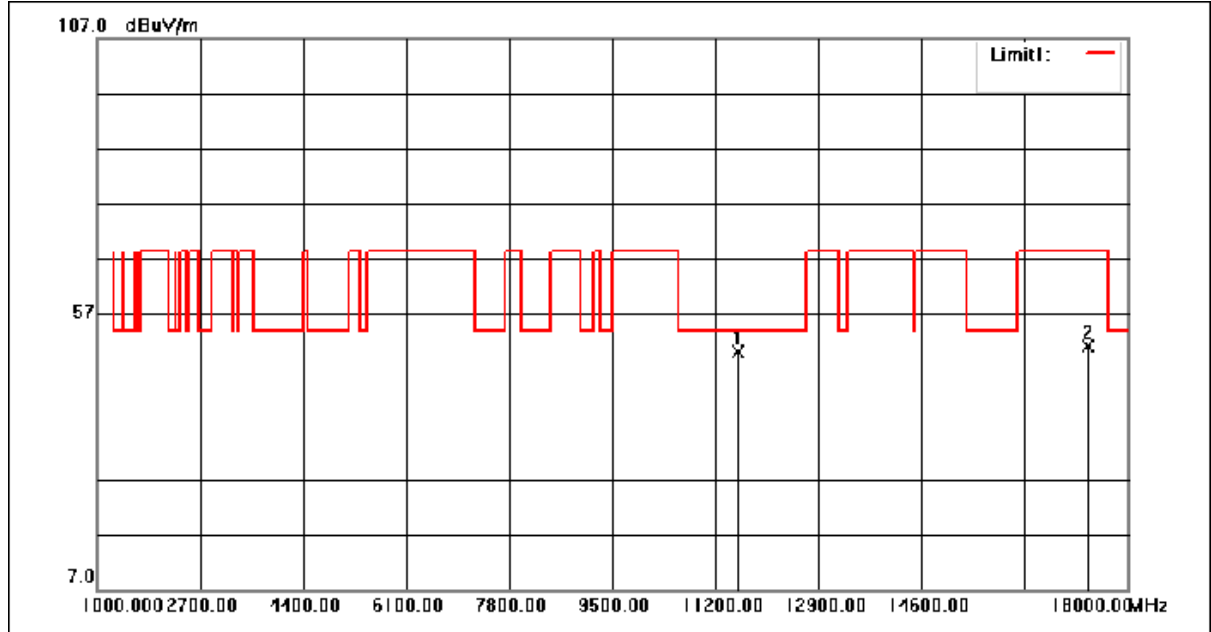


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.59	0.94	50.53	54.00	-3.47	peak
2	17235.000	42.67	9.05	51.72	68.30	-16.58	peak



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

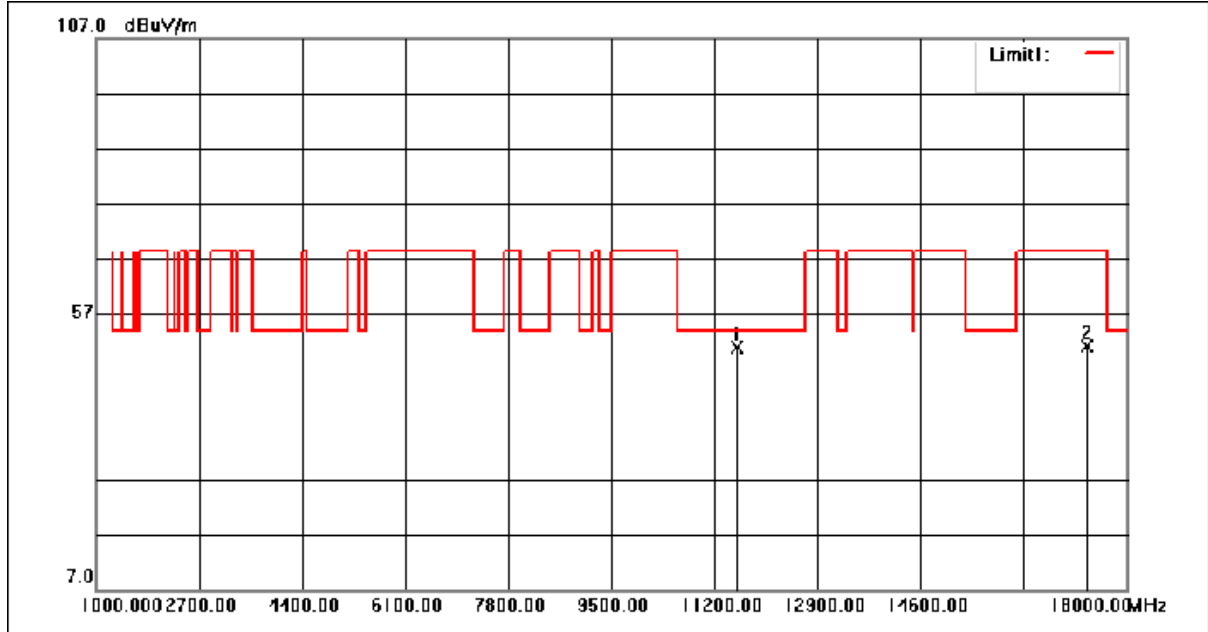


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.84	1.18	50.02	54.00	-3.98	peak
2	17355.000	42.19	8.98	51.17	68.30	-17.13	peak



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

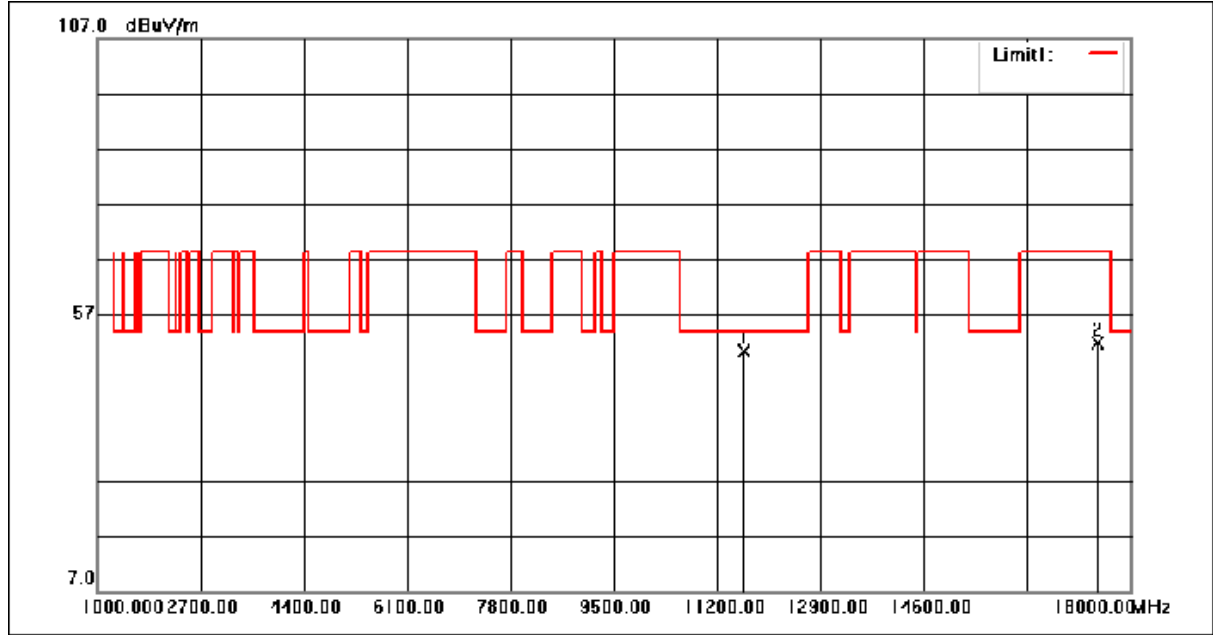


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.73	1.18	50.91	54.00	-3.09	peak
2	17355.000	42.12	8.98	51.10	68.30	-17.20	peak



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



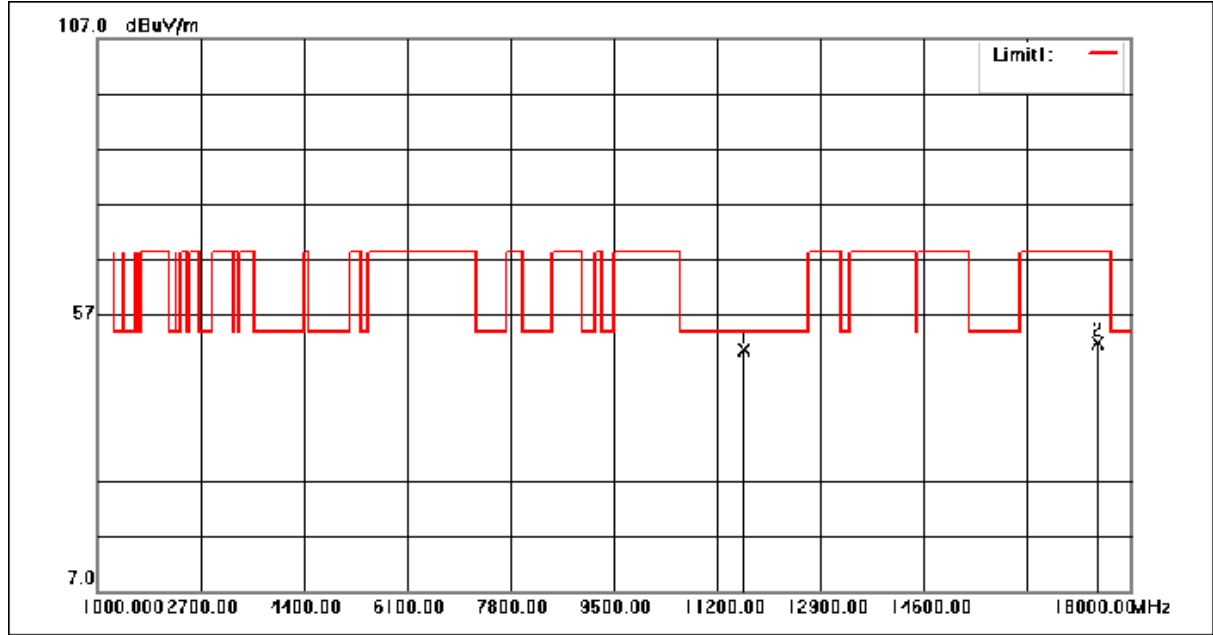
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.99	1.45	50.44	54.00	-3.56	peak
2	17475.000	42.99	8.90	51.89	68.30	-16.41	peak



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Mode: f; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: High

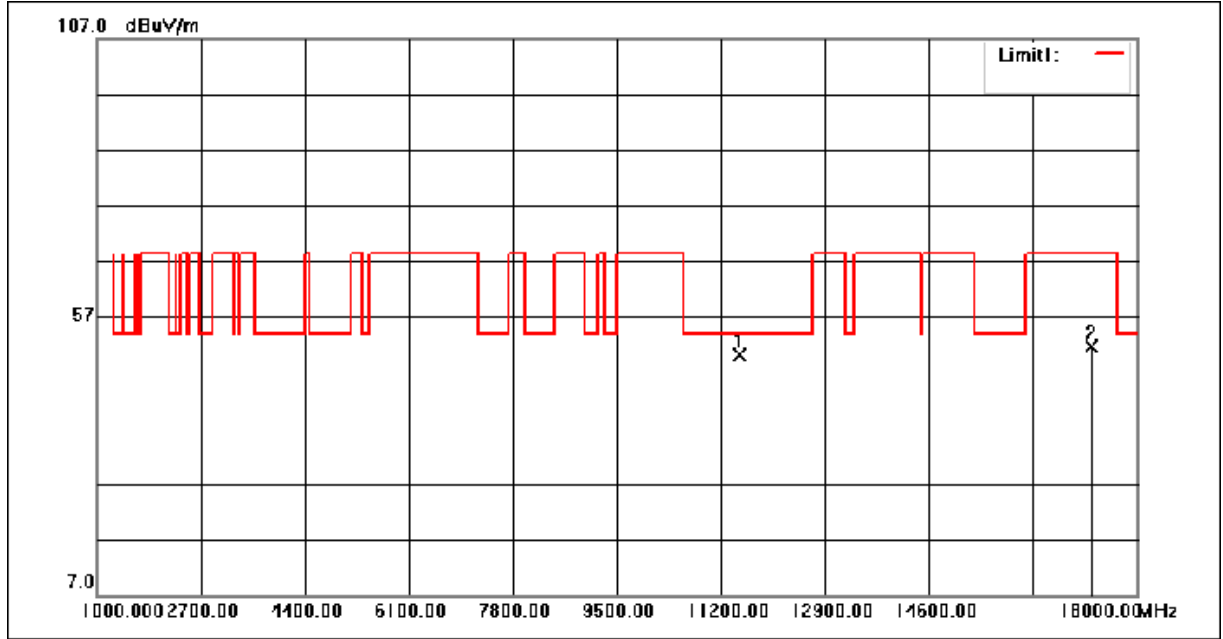


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.20	1.45	50.65	54.00	-3.35	peak
2	17475.000	43.04	8.90	51.94	68.30	-16.36	peak



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Mode: f; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: Low

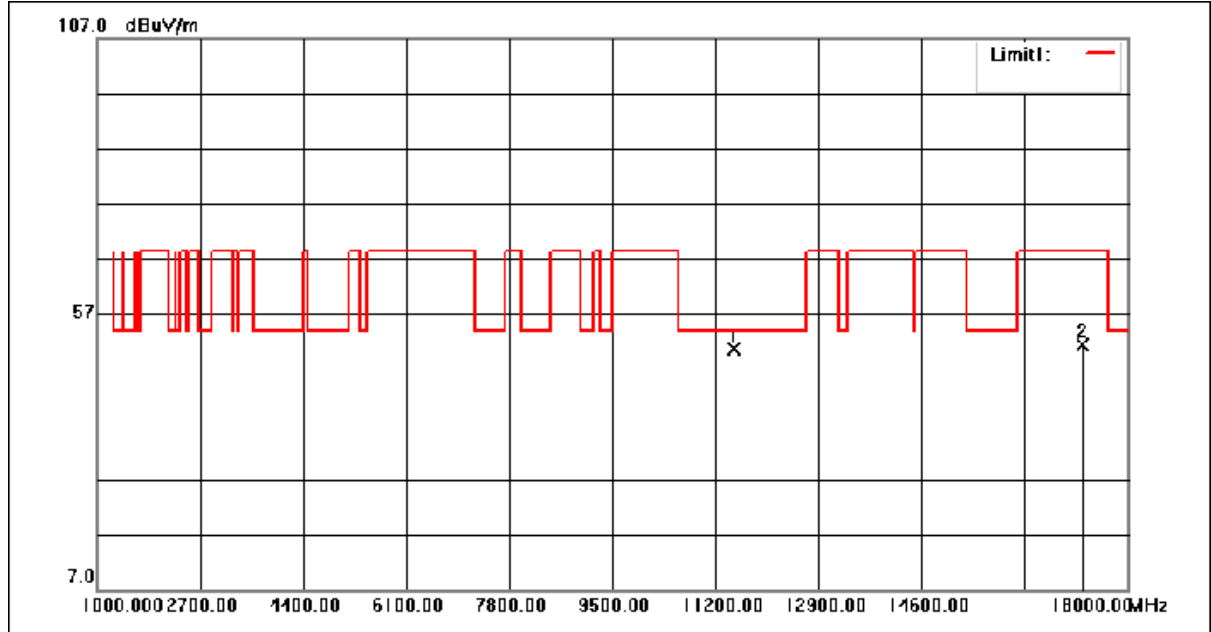


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.12	0.99	50.11	54.00	-3.89	peak
2	17265.000	42.60	9.03	51.63	68.30	-16.67	peak



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Mode: f; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: Low

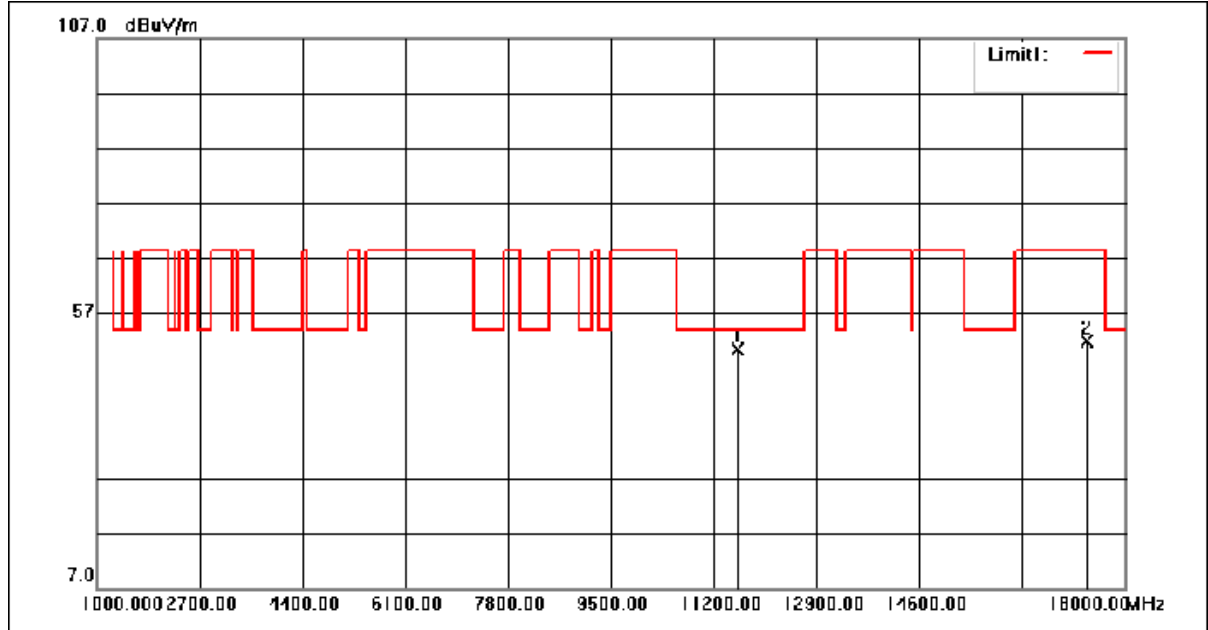


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.65	0.99	50.64	54.00	-3.36	peak
2	17265.000	42.35	9.03	51.38	68.30	-16.92	peak



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Mode: f; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: High

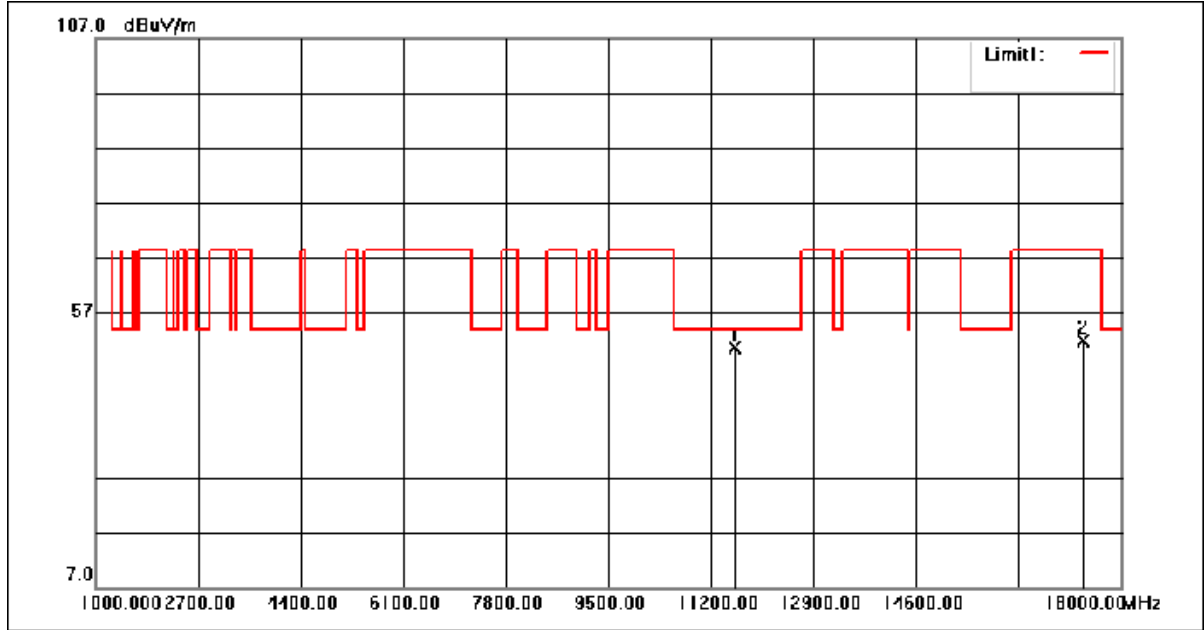


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.13	1.25	50.38	54.00	-3.62	peak
2	17385.000	42.88	8.96	51.84	68.30	-16.46	peak



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Mode: f; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: High

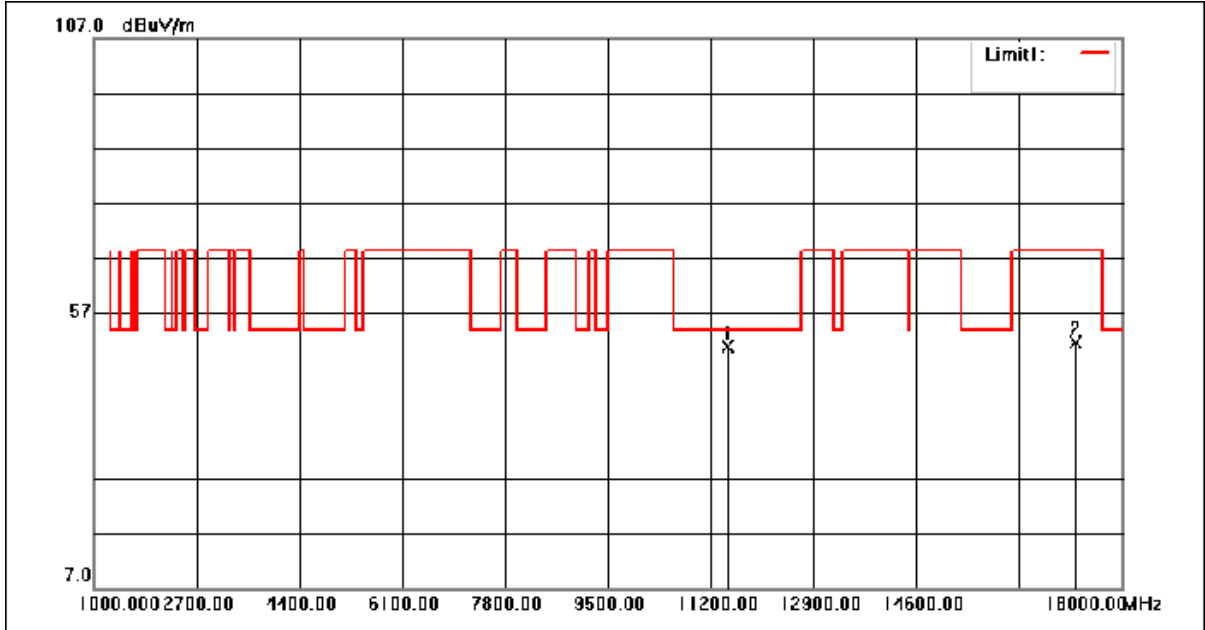


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.42	1.25	50.67	54.00	-3.33	peak
2	17385.000	43.01	8.96	51.97	68.30	-16.33	peak



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

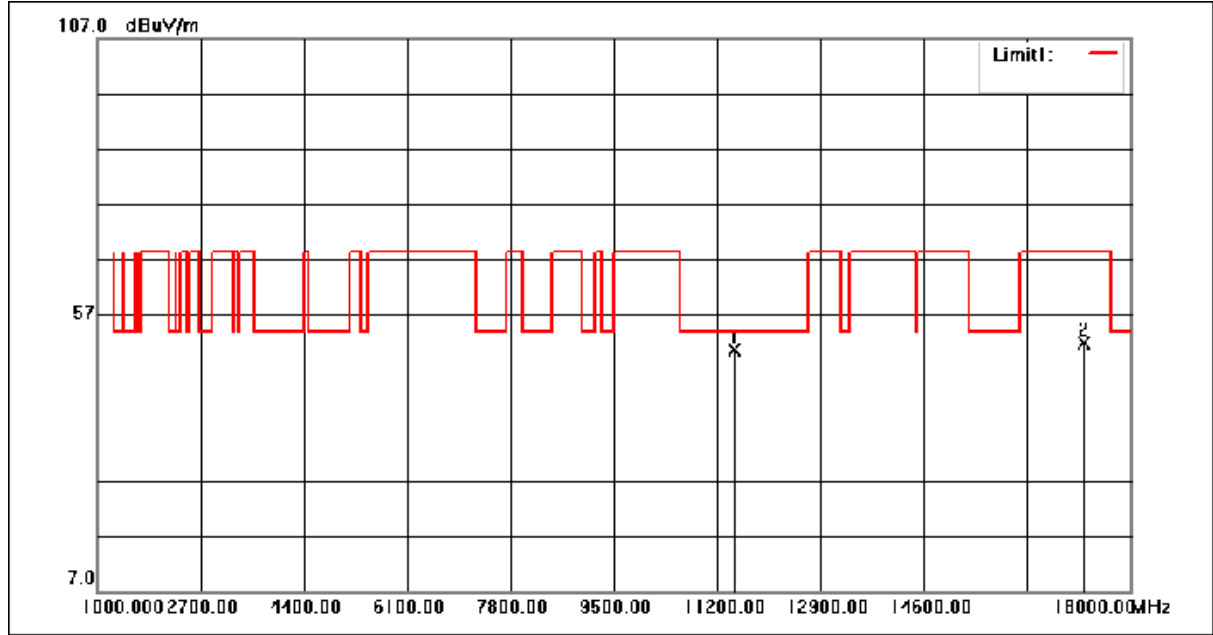


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	50.00	0.94	50.94	54.00	-3.06	peak
2	17235.000	42.56	9.05	51.61	68.30	-16.69	peak



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Mode: f; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: Low

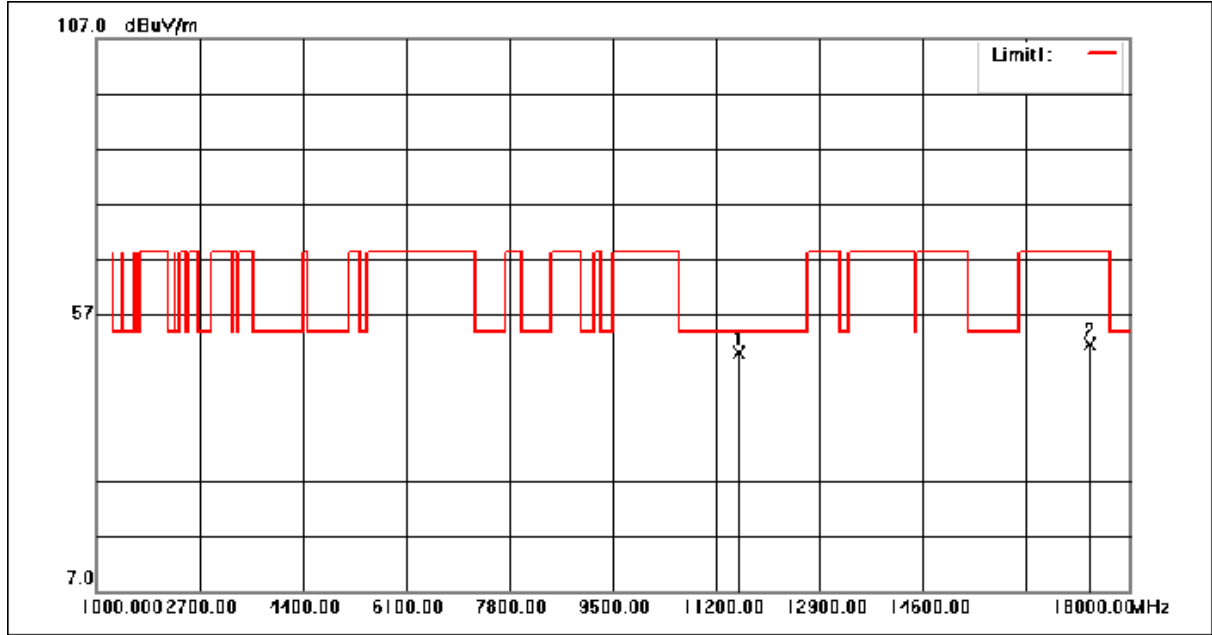


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.73	0.94	50.67	54.00	-3.33	peak
2	17235.000	42.80	9.05	51.85	68.30	-16.45	peak



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



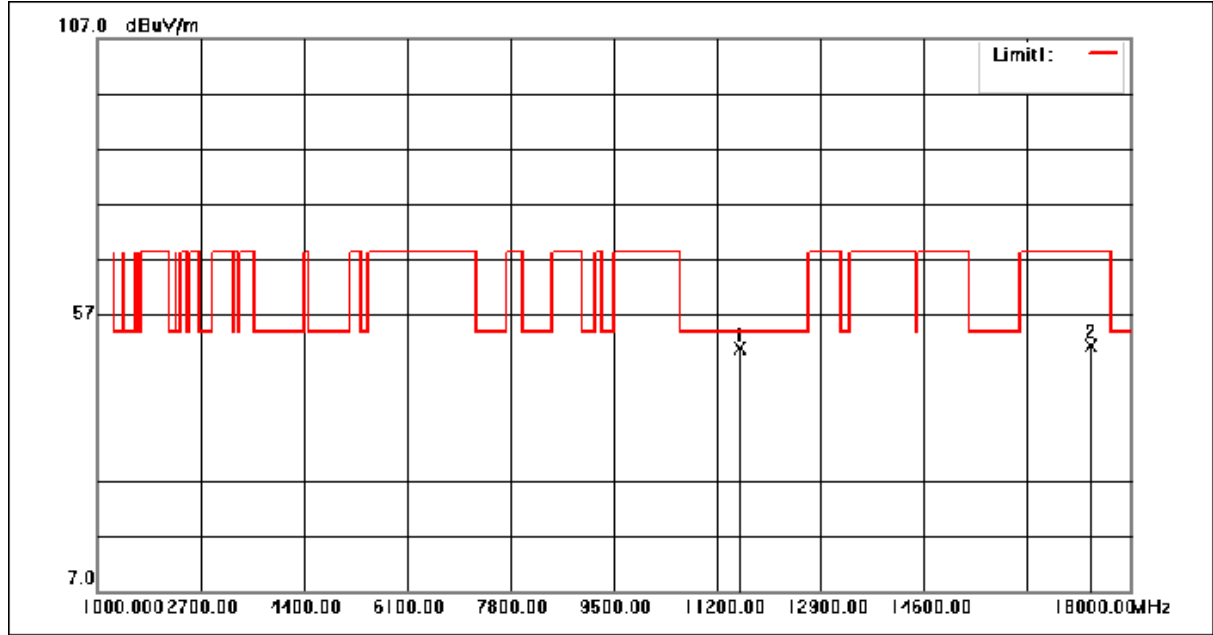
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.00	1.18	50.18	54.00	-3.82	peak
2	17355.000	42.71	8.98	51.69	68.30	-16.61	peak



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Mode: f; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: middle

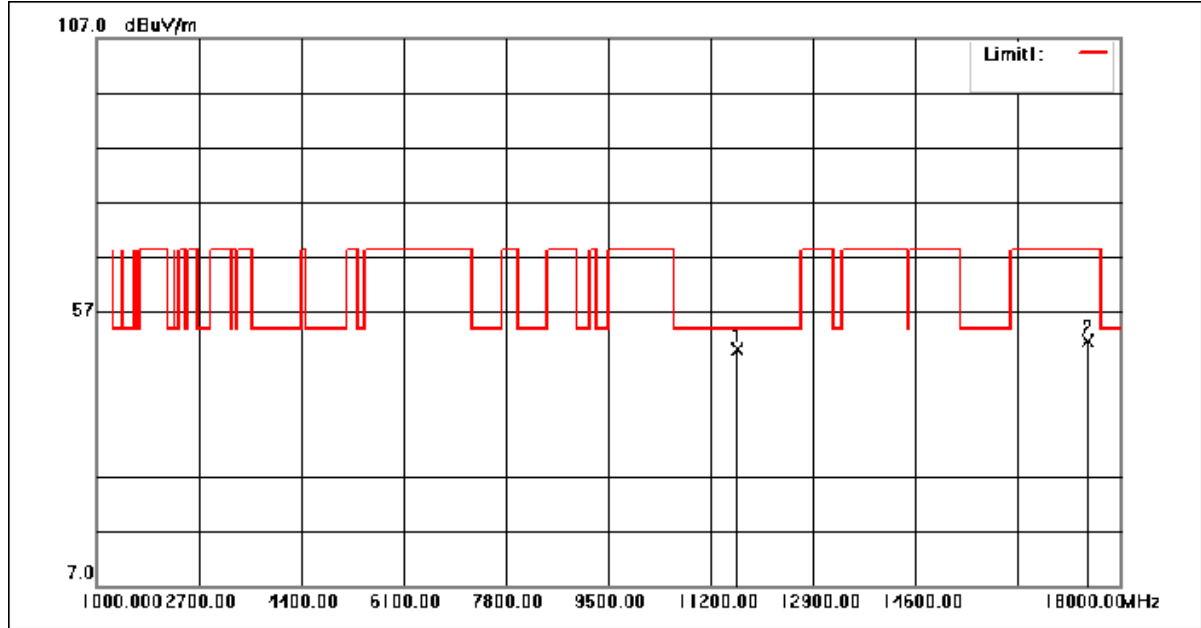


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.69	1.18	50.87	54.00	-3.13	peak
2	17355.000	42.45	8.98	51.43	68.30	-16.87	peak



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

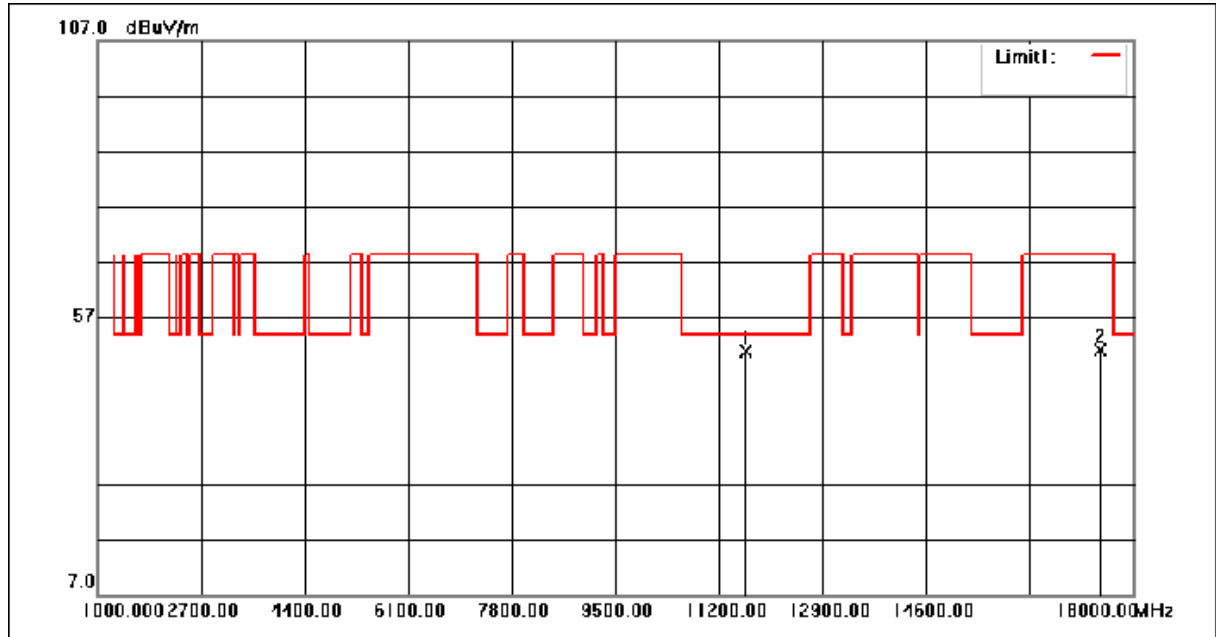


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.76	1.45	50.21	54.00	-3.79	peak
2	17475.000	42.65	8.90	51.55	68.30	-16.75	peak



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Mode: f; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: High

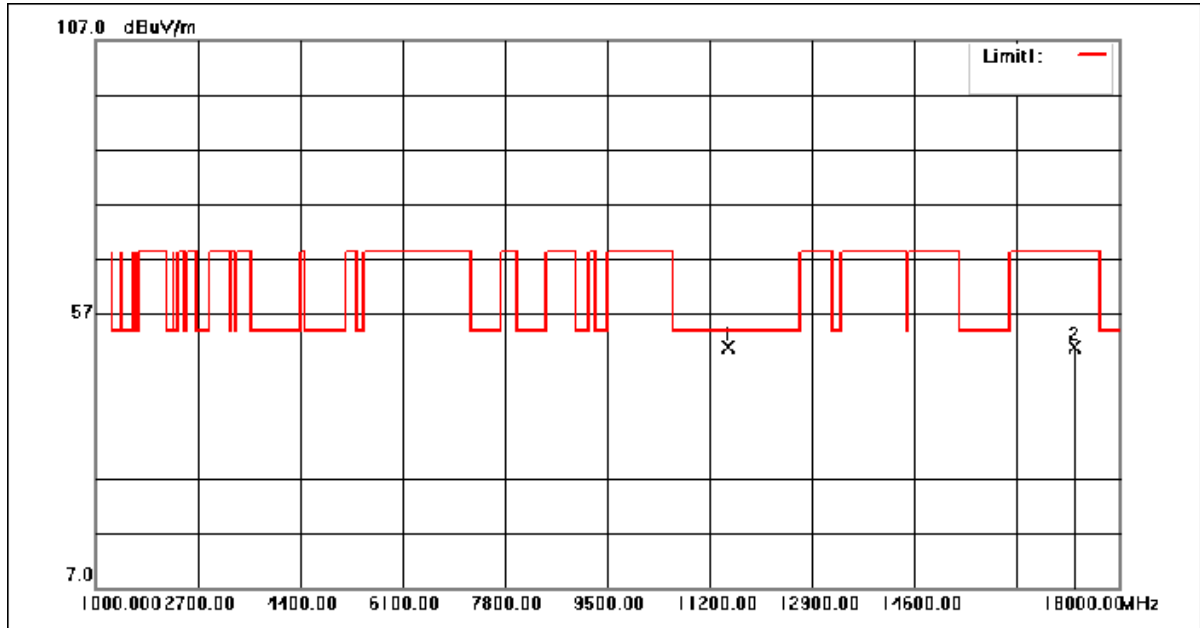


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.45	1.45	50.90	54.00	-3.10	peak
2	17475.000	42.24	8.90	51.14	68.30	-17.16	peak



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Mode: f; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: Low

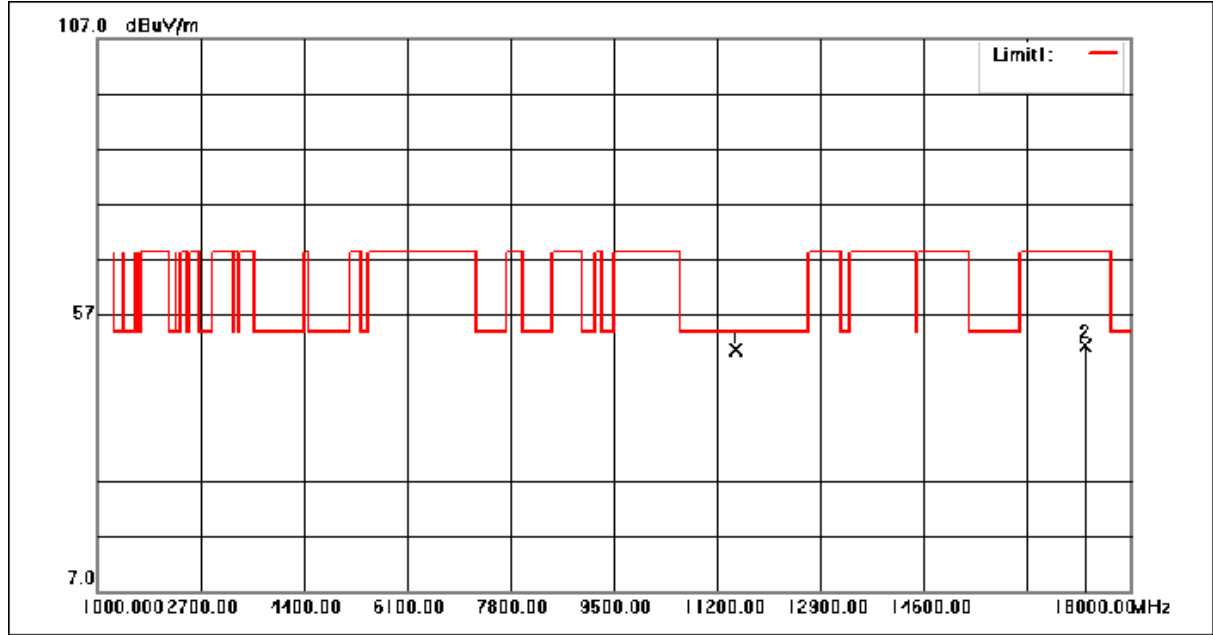


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.97	0.99	50.96	54.00	-3.04	peak
2	17265.000	41.97	9.03	51.00	68.30	-17.30	peak



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Mode: f; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: Low

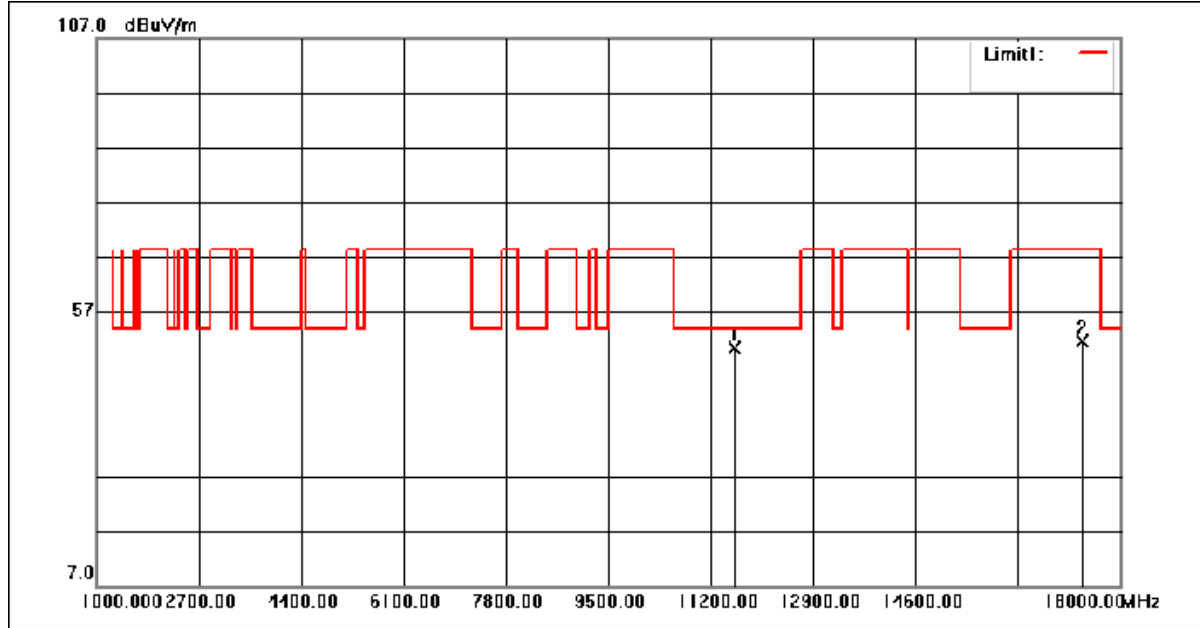


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.63	0.99	50.62	54.00	-3.38	peak
2	17265.000	42.38	9.03	51.41	68.30	-16.89	peak



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Mode: f; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: High

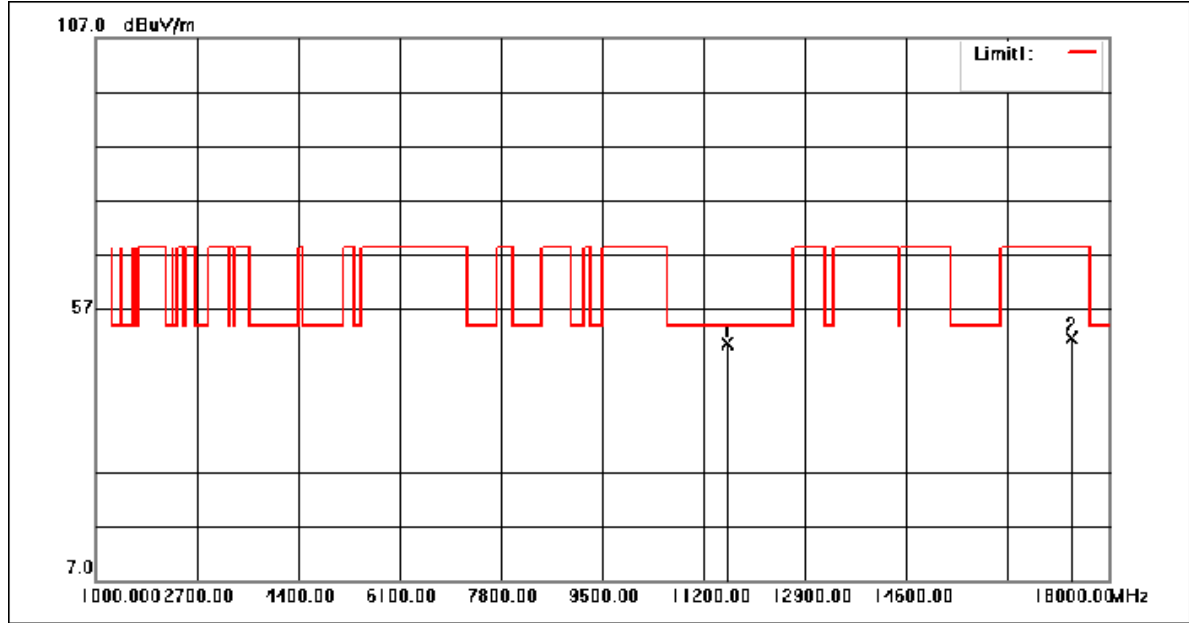


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.10	1.25	50.35	54.00	-3.65	peak
2	17385.000	42.78	8.96	51.74	68.30	-16.56	peak



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Mode: f; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: High

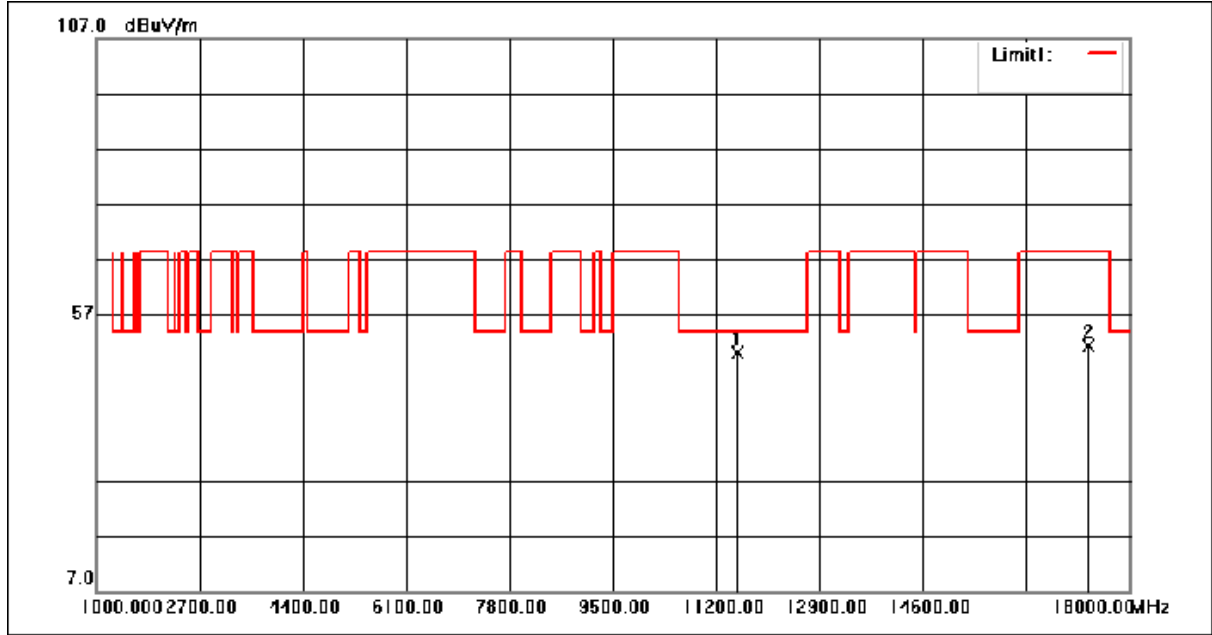


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.50	1.25	50.75	54.00	-3.25	peak
2	17385.000	42.57	8.96	51.53	68.30	-16.77	peak



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Mode: f; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: middle



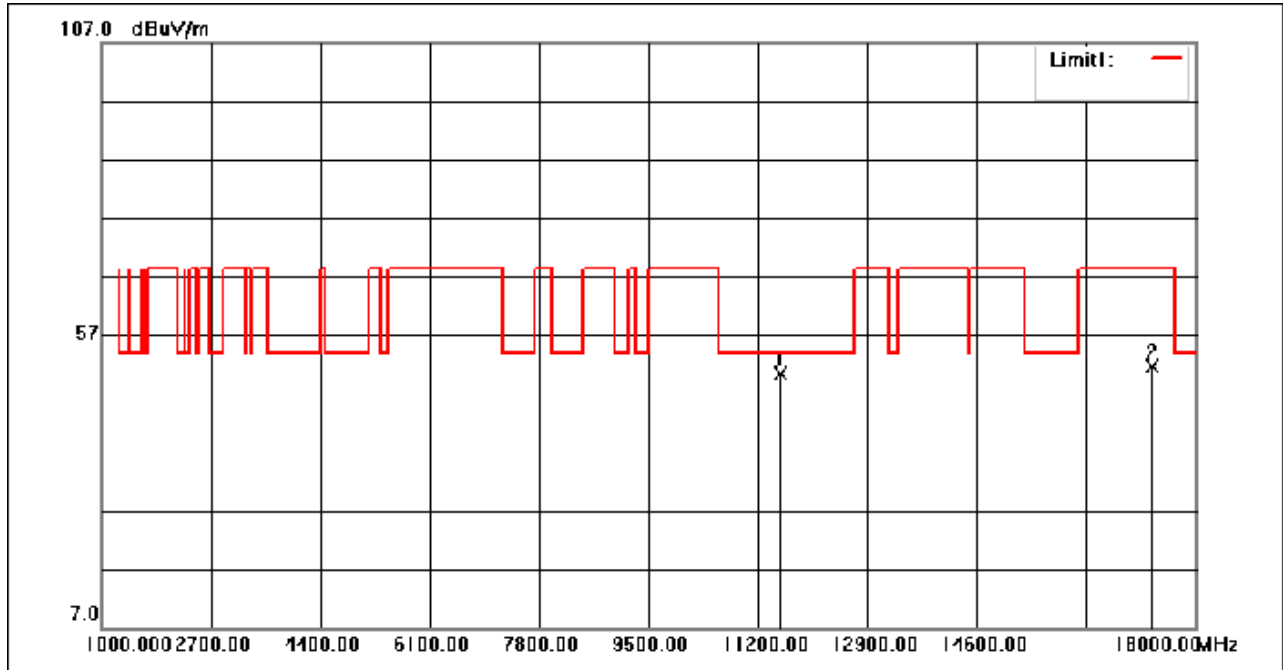
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	48.91	1.12	50.03	54.00	-3.97	peak
2	17325.000	42.45	8.99	51.44	68.30	-16.86	peak



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Mode: f; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	49.25	1.12	50.37	54.00	-3.63	peak
2	17325.000	42.57	8.99	51.56	68.30	-16.74	peak



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**7.7 Radiated Emissions which fall in the restricted bands**

Test Requirement 47 CFR Part 15, Subpart C 15.209 &amp; 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.



### 7.7.1 E.U.T. Operation

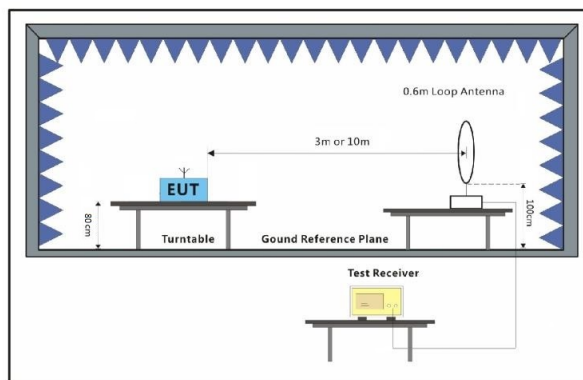
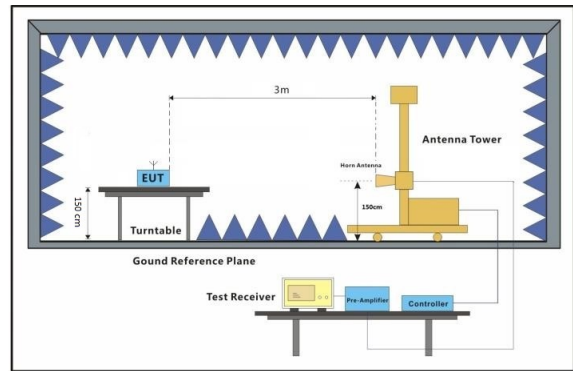
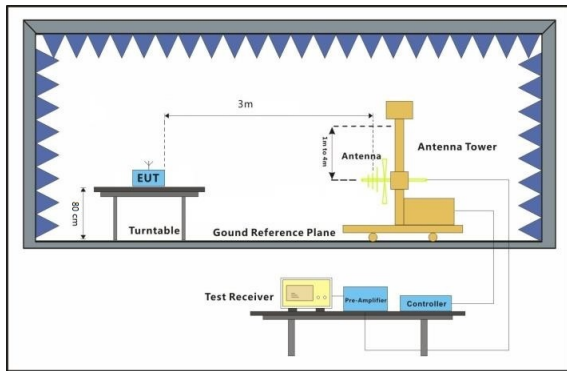
Operating Environment:

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

Test Mode e: 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); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

f: 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); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

### 7.7.2 Test Setup Diagram



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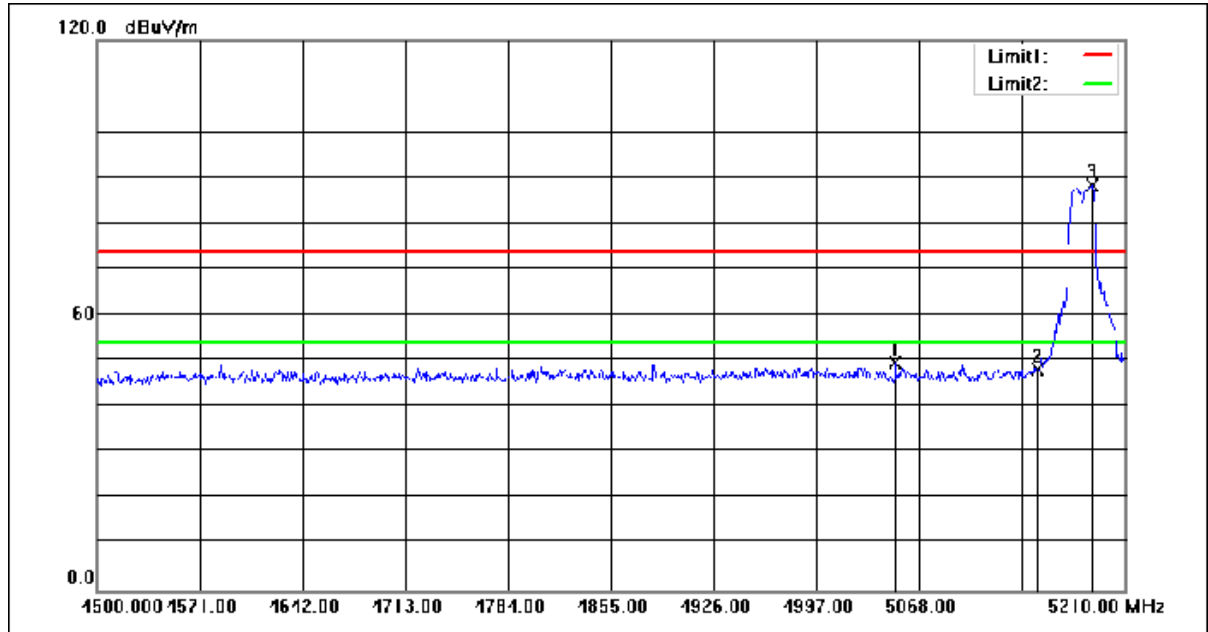
### 7.7.3 Measurement Procedure and Data

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



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

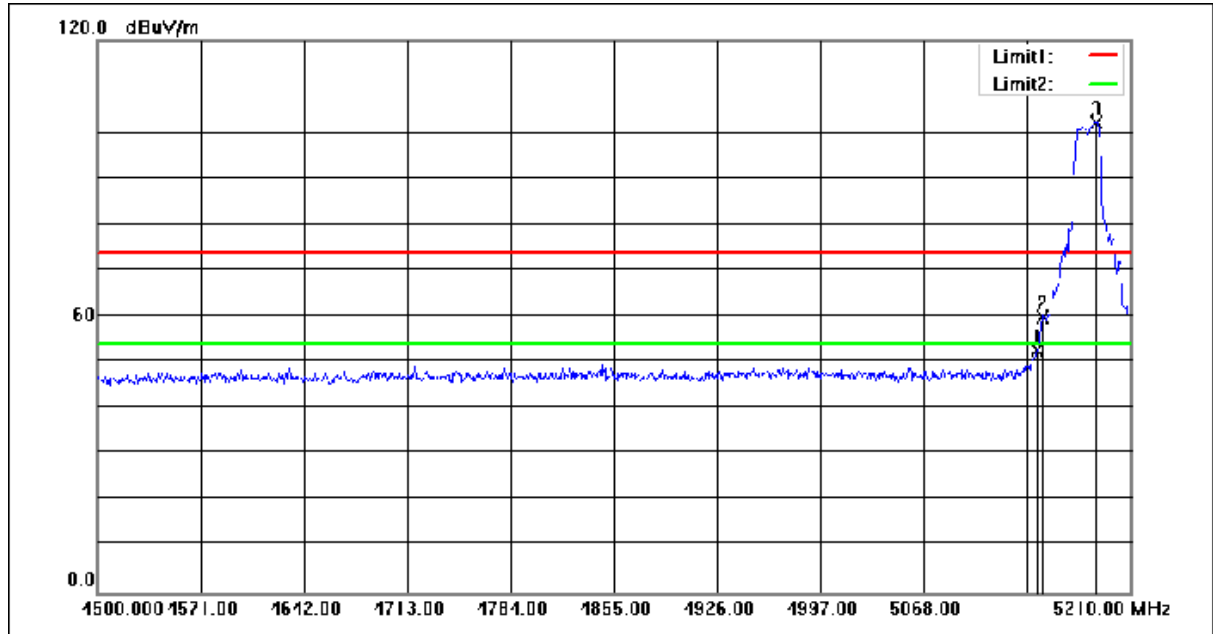


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5051.670	57.82	-8.07	49.75	74.00	-24.25	peak
2	5150.000	55.99	-7.84	48.15	74.00	-25.85	peak
3	5187.280	96.02	-7.76	88.26	74.00	14.26	peak



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

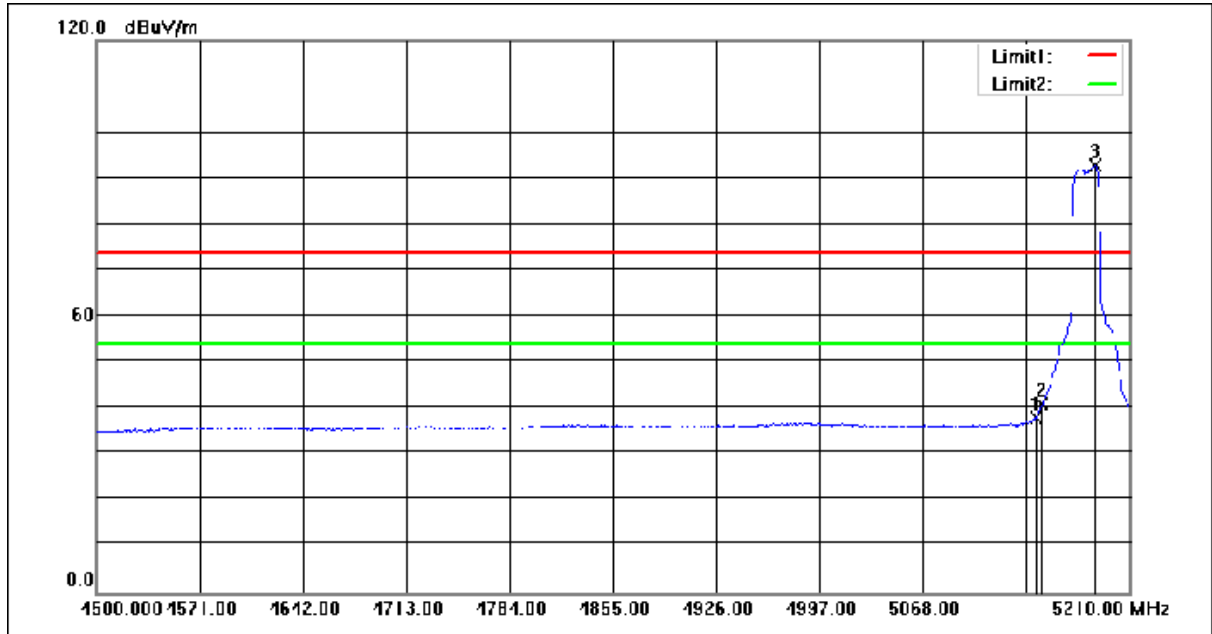


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.100	60.55	-7.85	52.70	74.00	-21.30	peak
2	5150.000	67.82	-7.84	59.98	74.00	-14.02	peak
3	5186.570	109.87	-7.76	102.11	74.00	28.11	peak



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

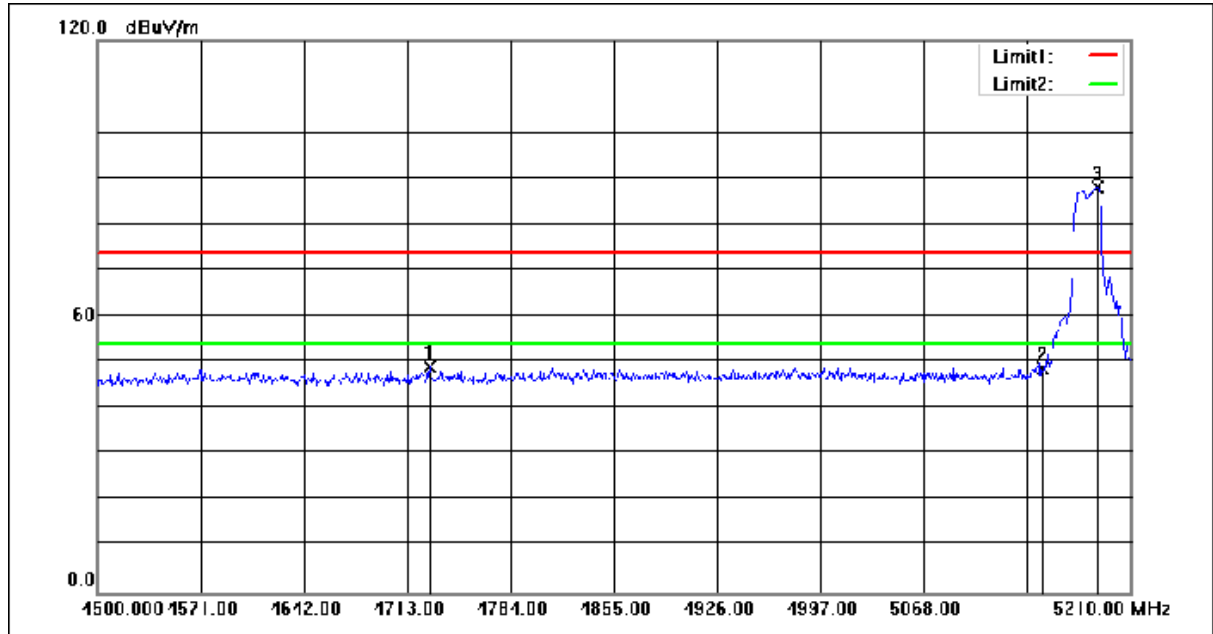


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.100	45.90	-7.85	38.05	54.00	-15.95	AVG
2	5150.000	48.71	-7.84	40.87	54.00	-13.13	AVG
3	5186.570	100.52	-7.76	92.76	54.00	38.76	AVG



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



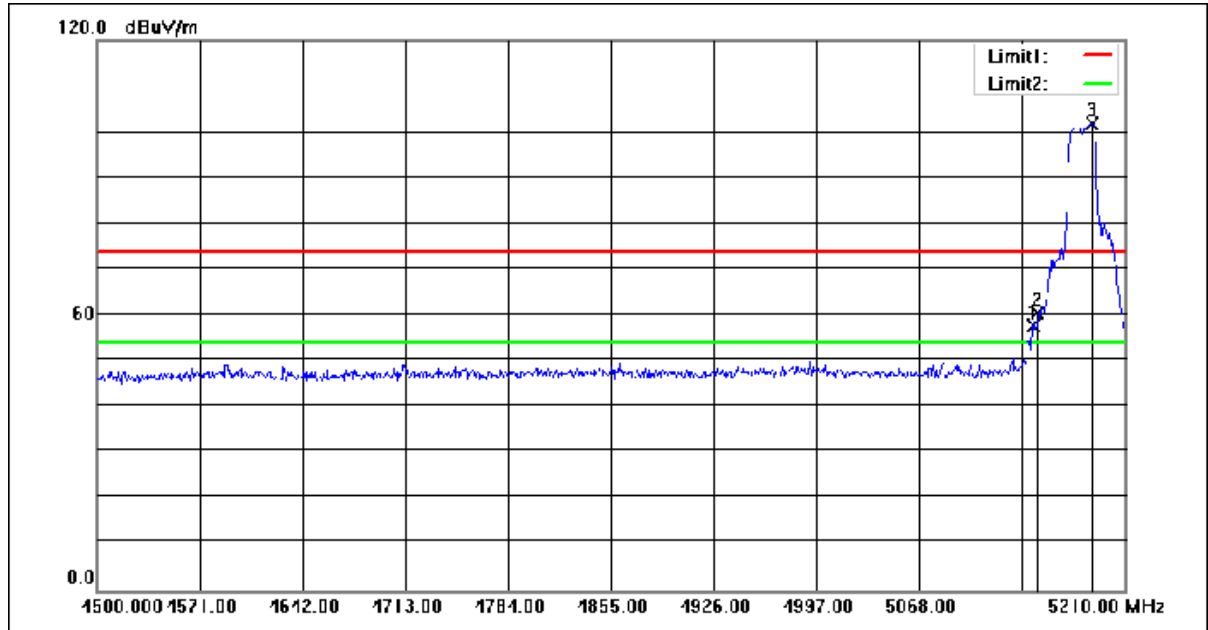
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4728.620	57.80	-8.75	49.05	74.00	-24.95	peak
2	5150.000	56.46	-7.84	48.62	74.00	-25.38	peak
3	5187.280	95.89	-7.76	88.13	74.00	14.13	peak



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

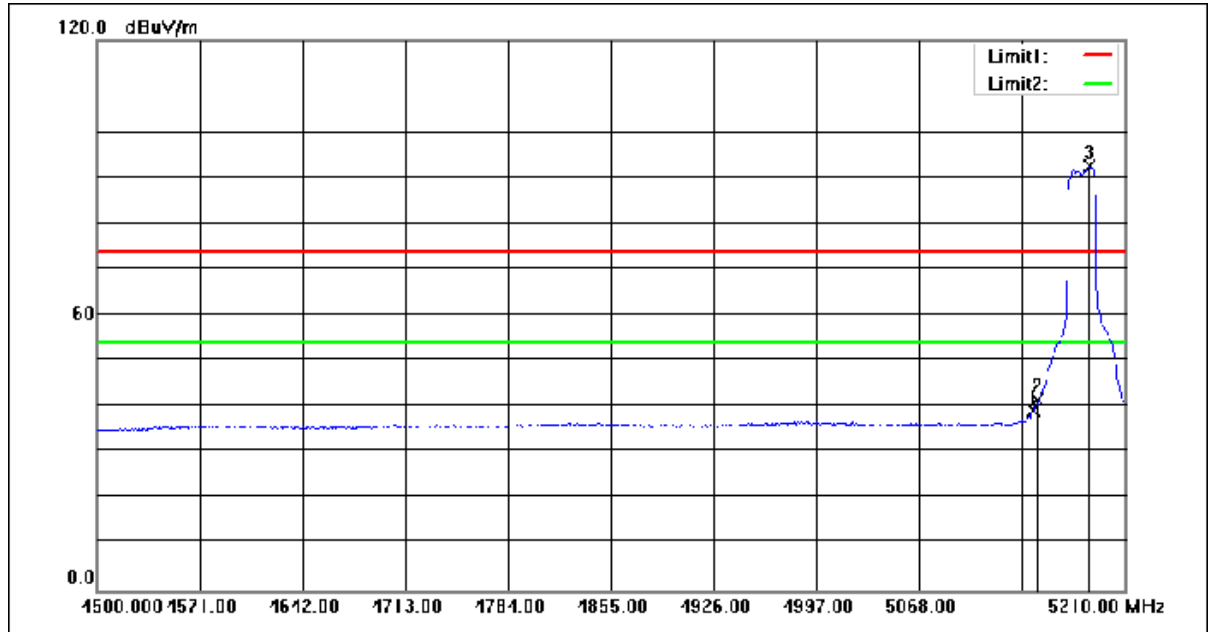


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.810	65.72	-7.85	57.87	74.00	-16.13	peak
2	5150.000	68.43	-7.84	60.59	74.00	-13.41	peak
3	5187.280	109.65	-7.76	101.89	74.00	27.89	peak



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

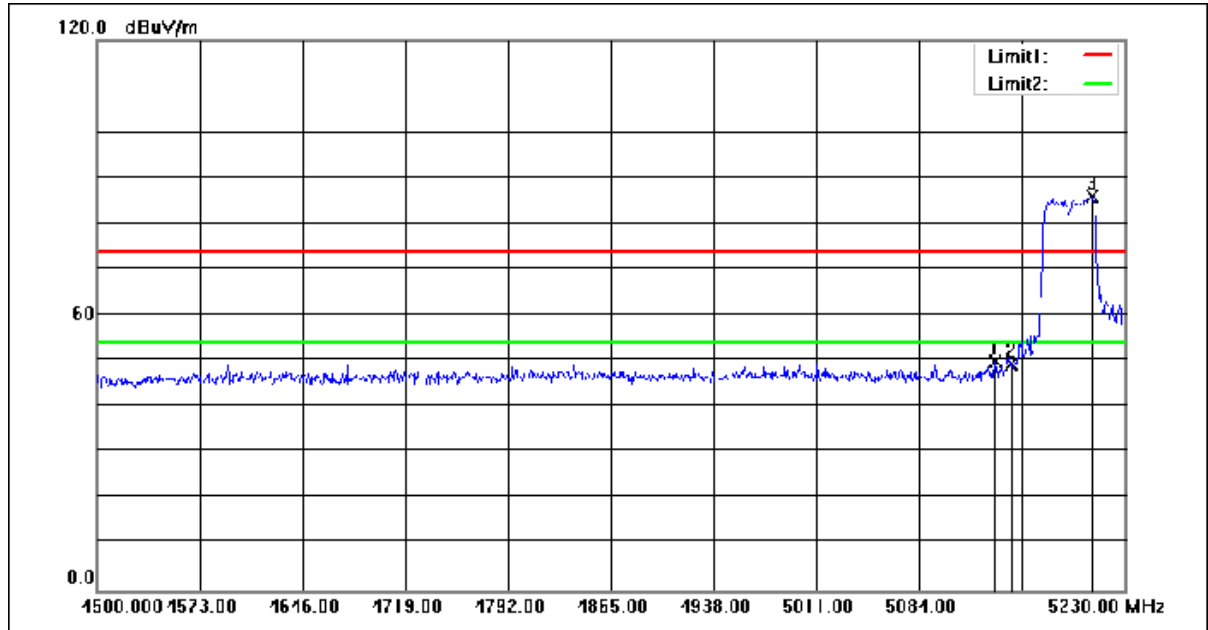


No.	Frequency (MHz)	Reading (dBUV)	Correction factor(dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	5146.810	47.07	-7.85	39.22	54.00	-14.78	AVG
2	5150.000	49.35	-7.84	41.51	54.00	-12.49	AVG
3	5185.860	100.36	-7.77	92.59	54.00	38.59	AVG



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Mode: e; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: Low

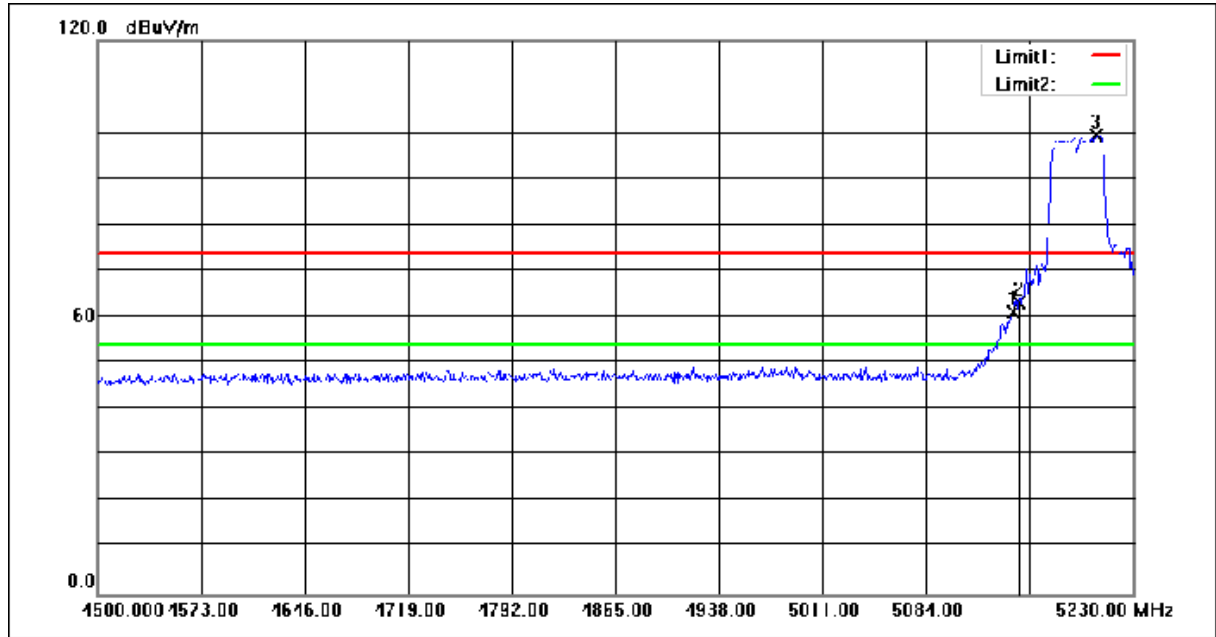


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5138.020	57.84	-7.87	49.97	74.00	-24.03	peak
2	5150.000	57.11	-7.84	49.27	74.00	-24.73	peak
3	5206.640	93.63	-7.70	85.93	74.00	11.93	peak



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Mode: e; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: Low

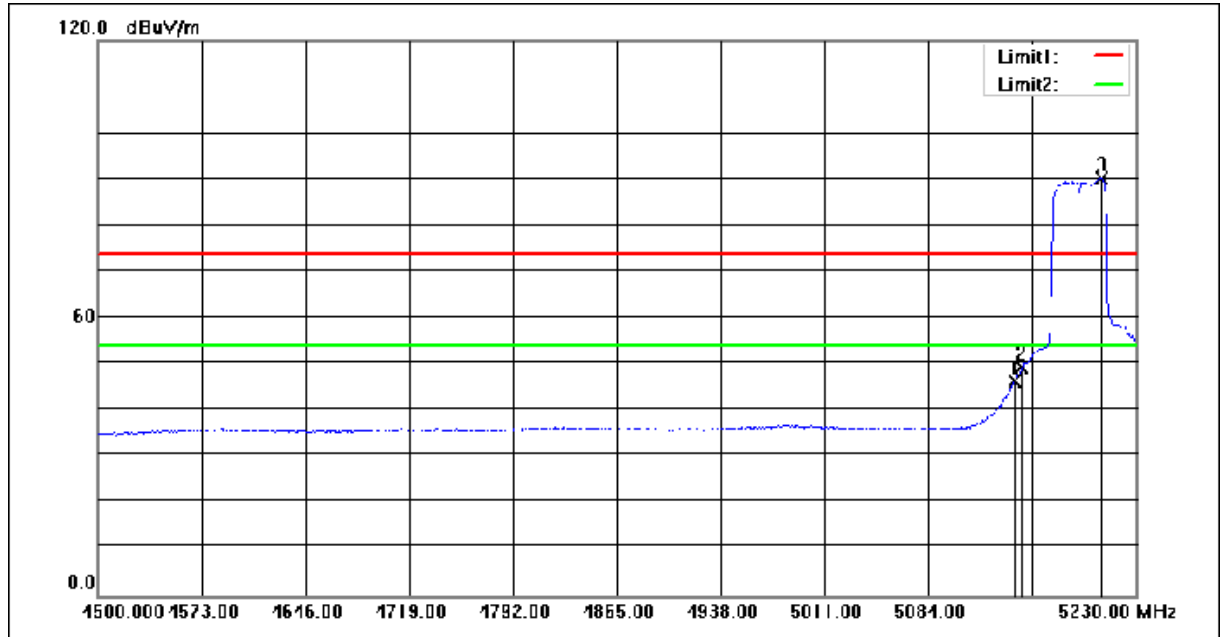


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.050	68.86	-7.85	61.01	74.00	-12.99	peak
2	5150.000	71.09	-7.84	63.25	74.00	-10.75	peak
3	5204.450	107.18	-7.71	99.47	74.00	25.47	peak



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Mode: e; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: Low

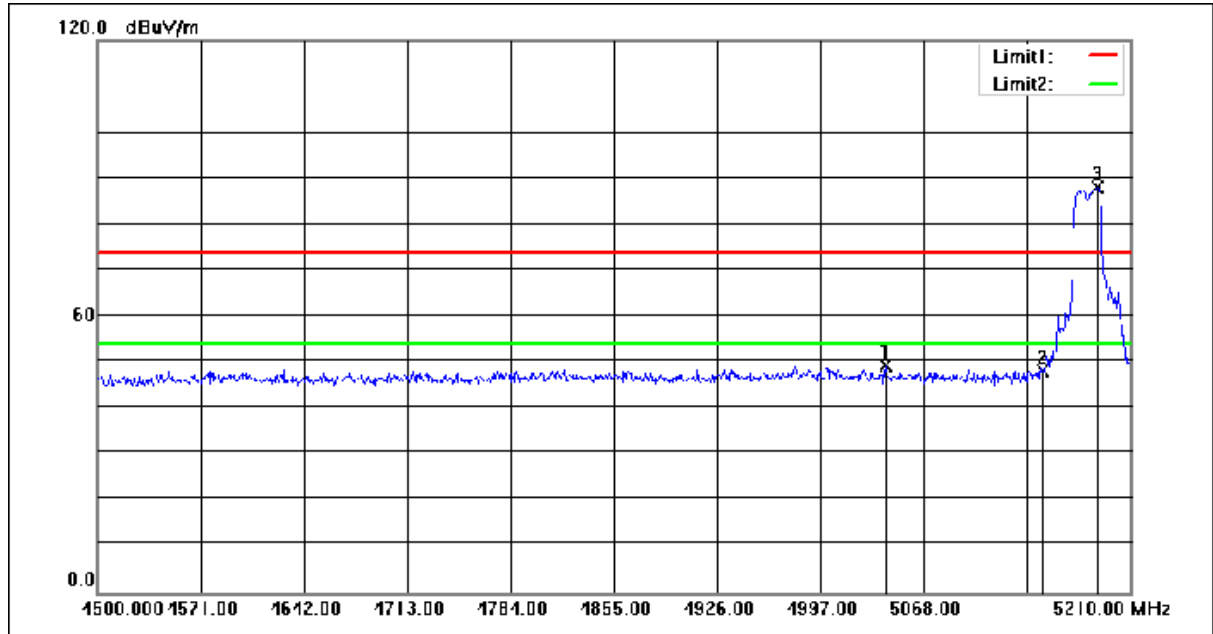


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5144.590	54.12	-7.85	46.27	54.00	-7.73	AVG
2	5150.000	57.22	-7.84	49.38	54.00	-4.62	AVG
3	5205.910	97.86	-7.71	90.15	54.00	36.15	AVG



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

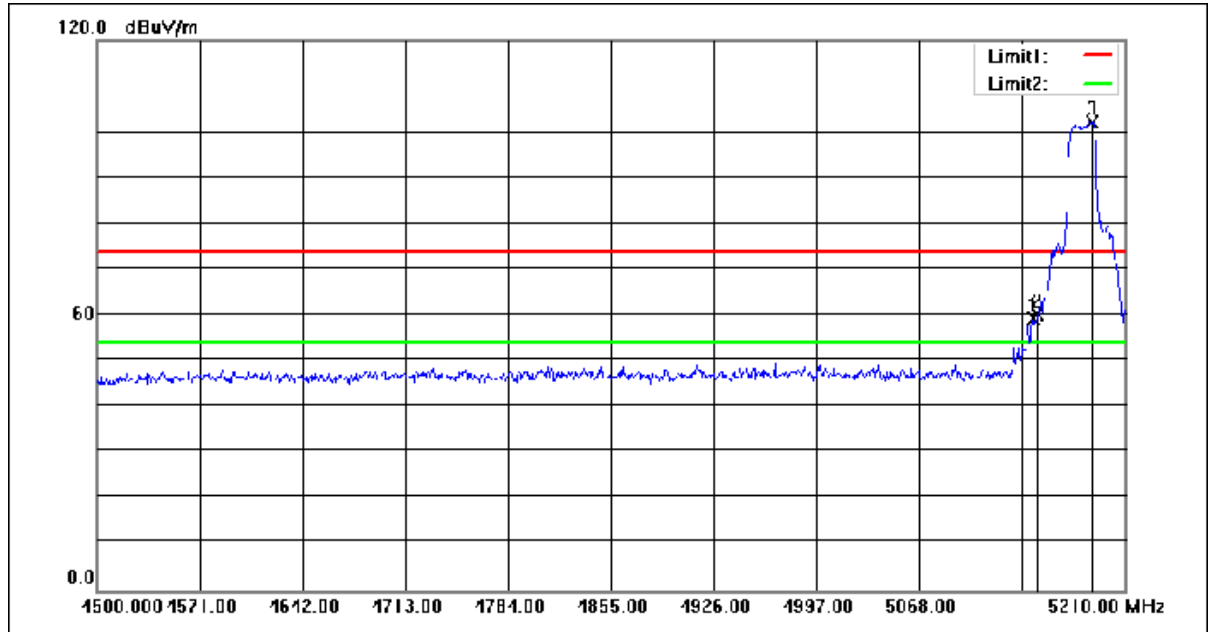


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5041.730	57.29	-8.08	49.21	74.00	-24.79	peak
2	5150.000	55.85	-7.84	48.01	74.00	-25.99	peak
3	5187.280	95.68	-7.76	87.92	74.00	13.92	peak



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

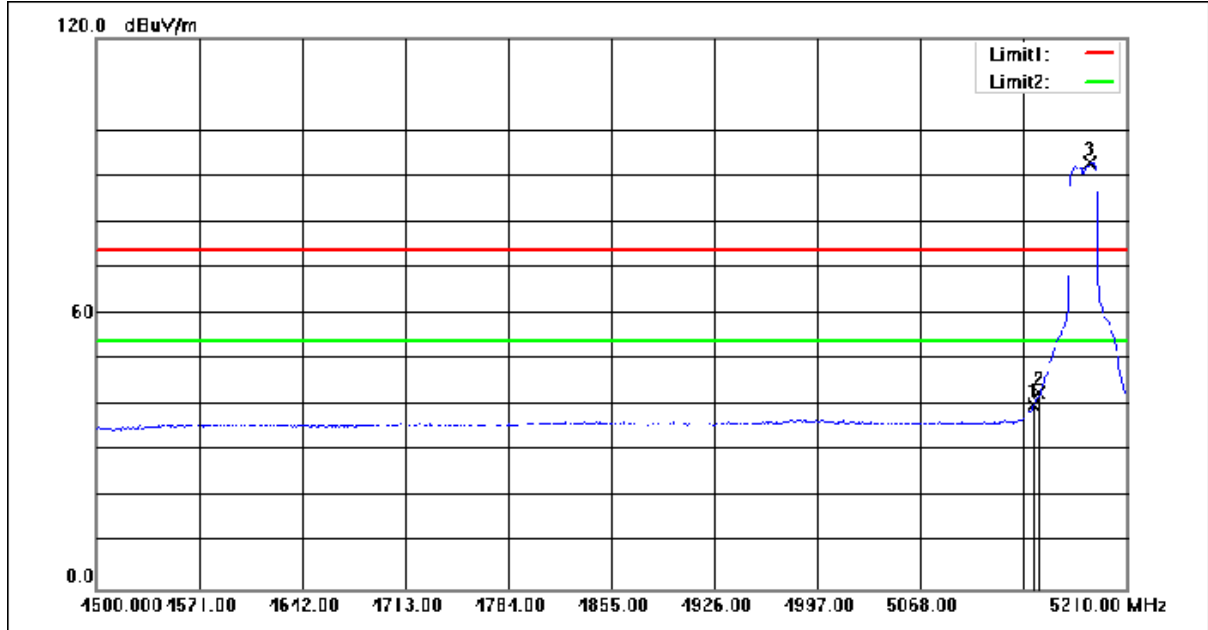


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.810	67.14	-7.85	59.29	74.00	-14.71	peak
2	5150.000	67.99	-7.84	60.15	74.00	-13.85	peak
3	5187.280	109.87	-7.76	102.11	74.00	28.11	peak



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



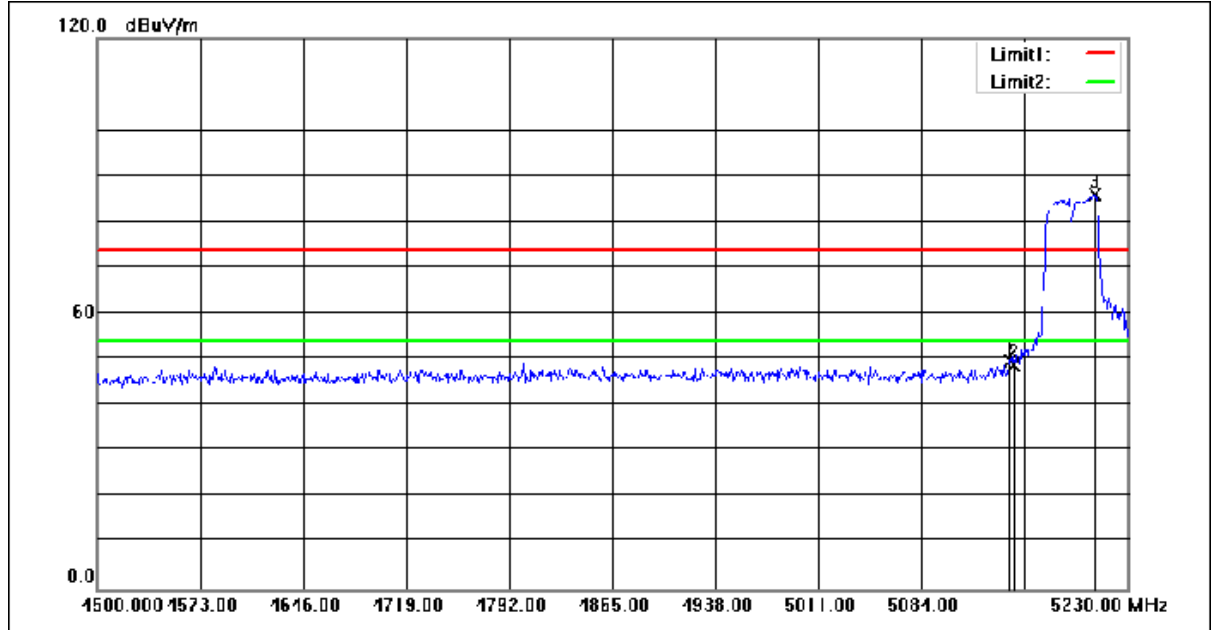
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.100	47.83	-7.85	39.98	54.00	-14.02	AVG
2	5150.000	50.55	-7.84	42.71	54.00	-11.29	AVG
3	5185.150	100.61	-7.76	92.85	54.00	38.85	AVG



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Mode: e; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: Low

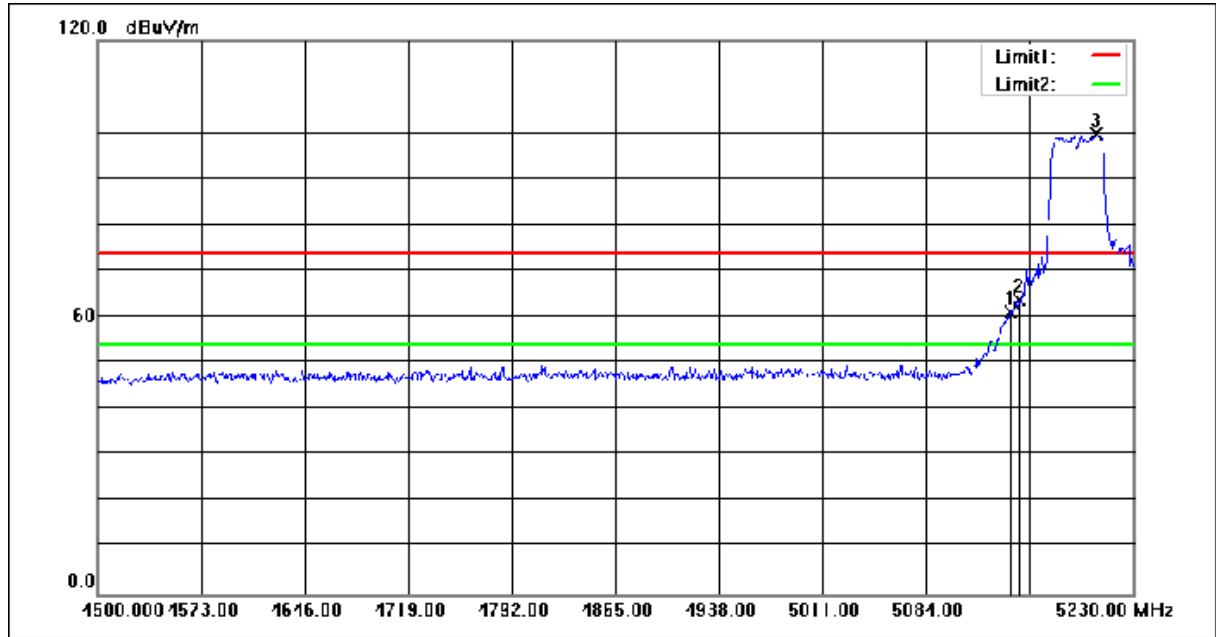


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.780	57.40	-7.85	49.55	74.00	-24.45	peak
2	5150.000	56.56	-7.84	48.72	74.00	-25.28	peak
3	5206.640	93.67	-7.70	85.97	74.00	11.97	peak



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Mode: e; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: Low

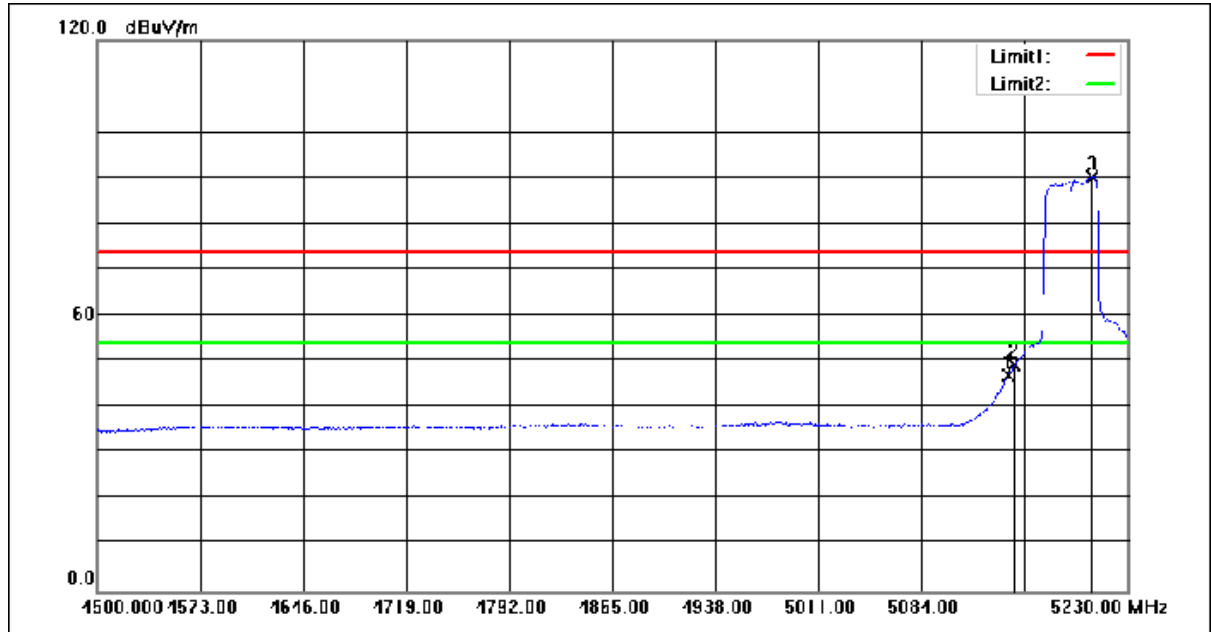


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.860	68.92	-7.86	61.06	74.00	-12.94	peak
2	5150.000	71.74	-7.84	63.90	74.00	-10.10	peak
3	5204.450	107.40	-7.71	99.69	74.00	25.69	peak



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Mode: e; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: Low

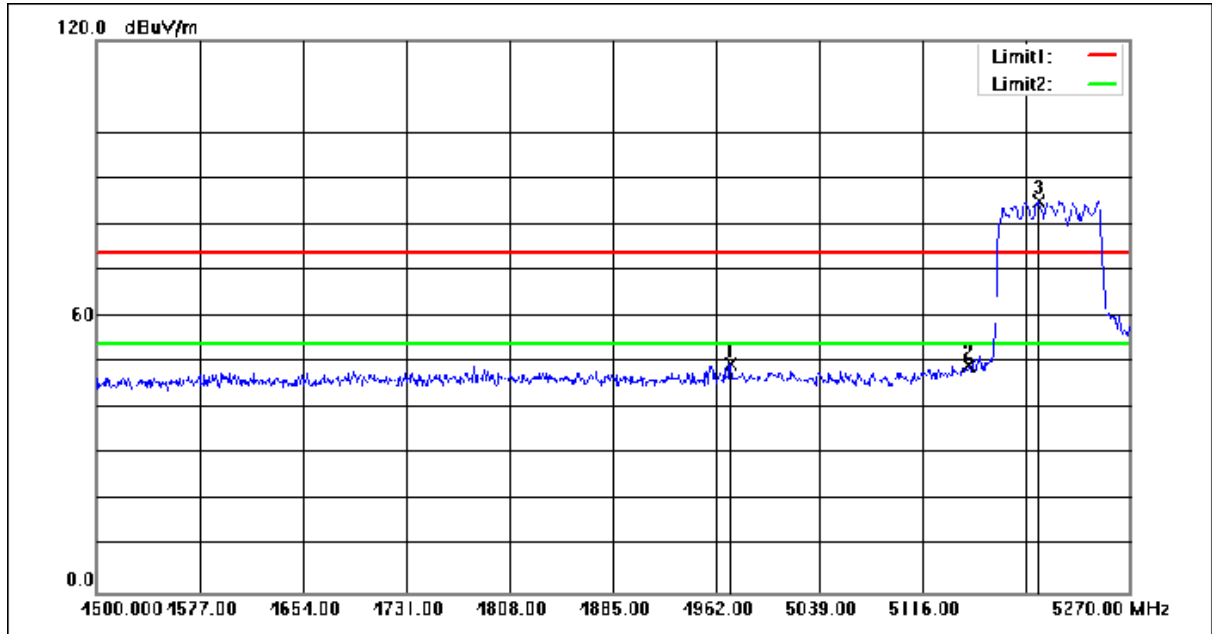


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.050	54.91	-7.85	47.06	54.00	-6.94	AVG
2	5150.000	57.32	-7.84	49.48	54.00	-4.52	AVG
3	5205.180	97.97	-7.71	90.26	54.00	36.26	AVG



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Mode: e; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: Low

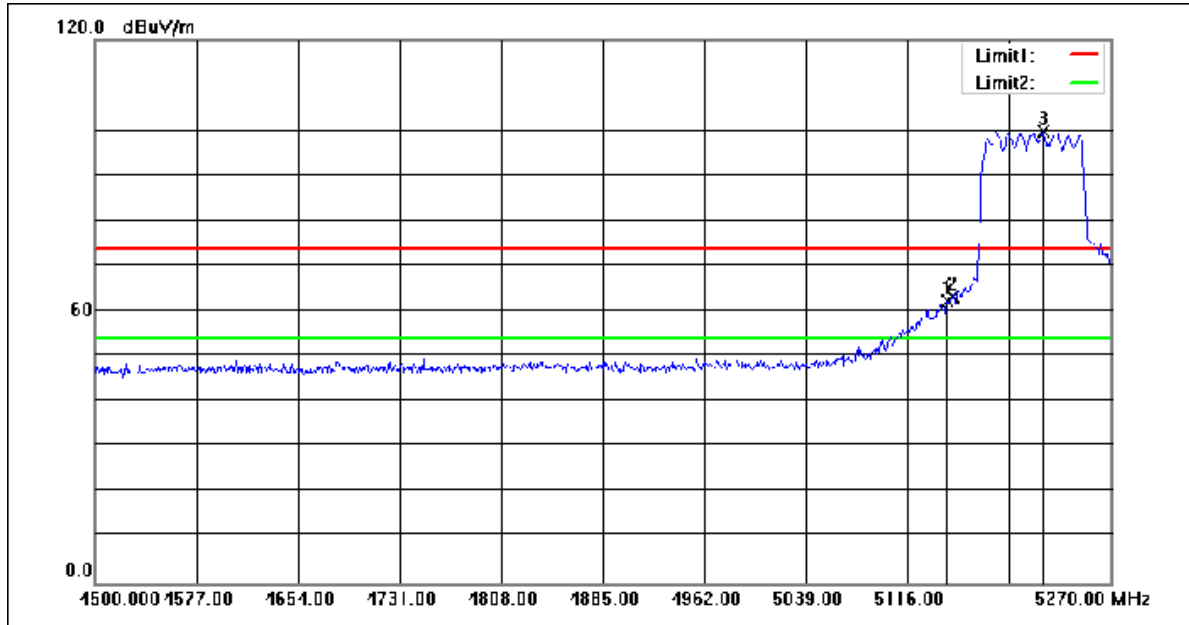


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4972.780	57.85	-8.28	49.57	74.00	-24.43	peak
2	5150.000	57.11	-7.84	49.27	74.00	-24.73	peak
3	5202.240	92.91	-7.72	85.19	74.00	11.19	peak



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Mode: e; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: Low

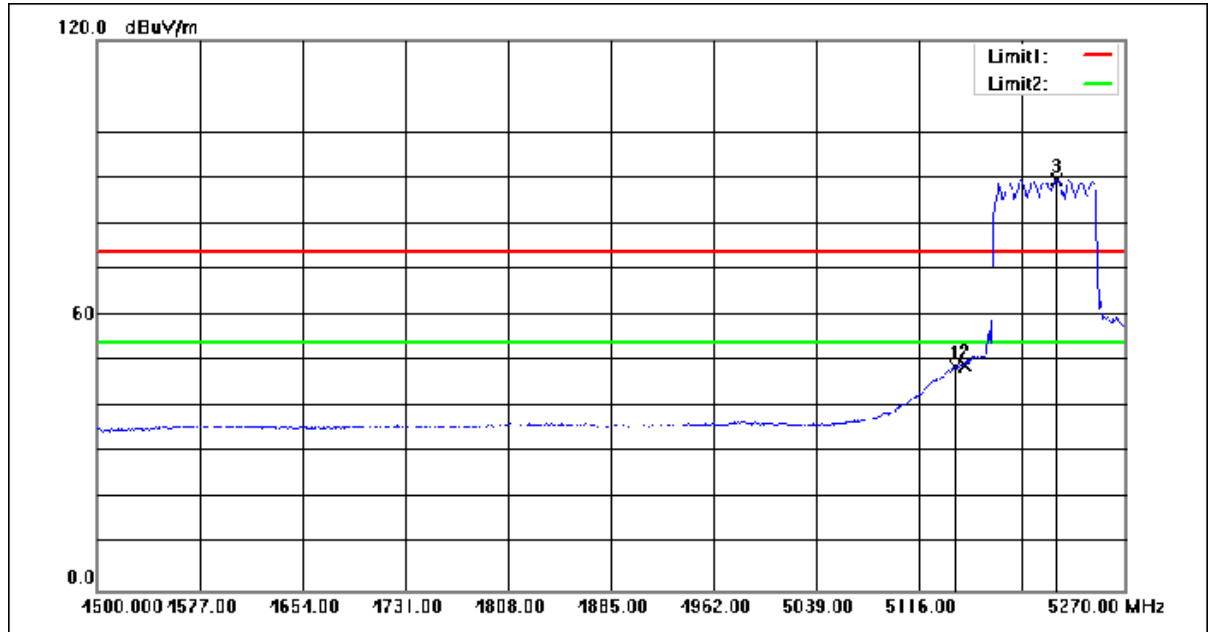


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.030	70.06	-7.85	62.21	74.00	-11.79	peak
2	5150.000	71.00	-7.84	63.16	74.00	-10.84	peak
3	5219.180	107.38	-7.66	99.72	74.00	25.72	peak



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Mode: e; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: Low

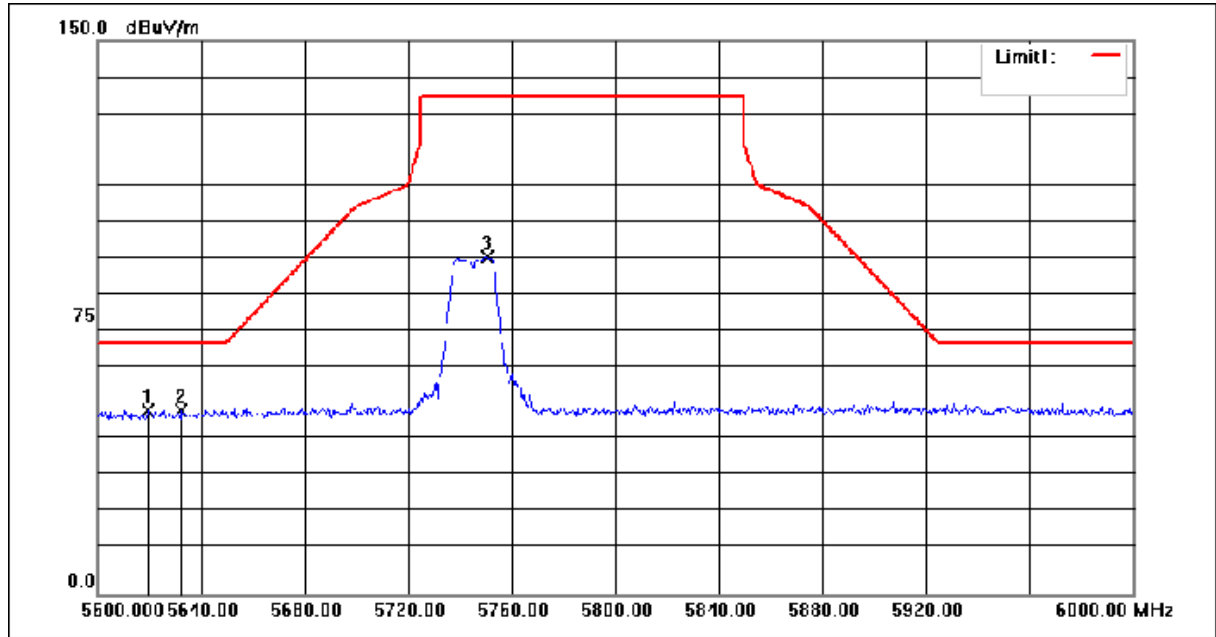


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.950	56.62	-7.86	48.76	54.00	-5.24	AVG
2	5150.000	56.97	-7.84	49.13	54.00	-4.87	AVG
3	5219.180	97.27	-7.66	89.61	54.00	35.61	AVG



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

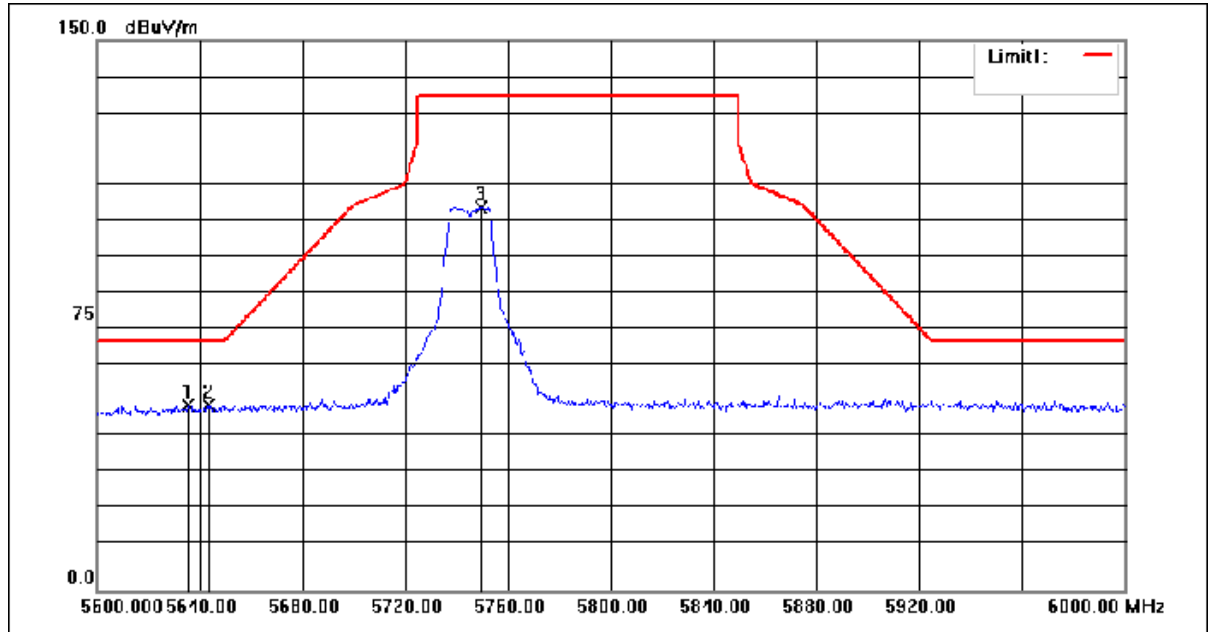


No.	Frequency (MHz)	Reading (dBUV)	Correction factor(dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	5619.600	56.69	-6.92	49.77	68.20	-18.43	peak
2	5632.400	56.69	-6.89	49.80	68.20	-18.40	peak
3	5750.400	97.87	-6.58	91.29	135.00	-43.71	peak



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



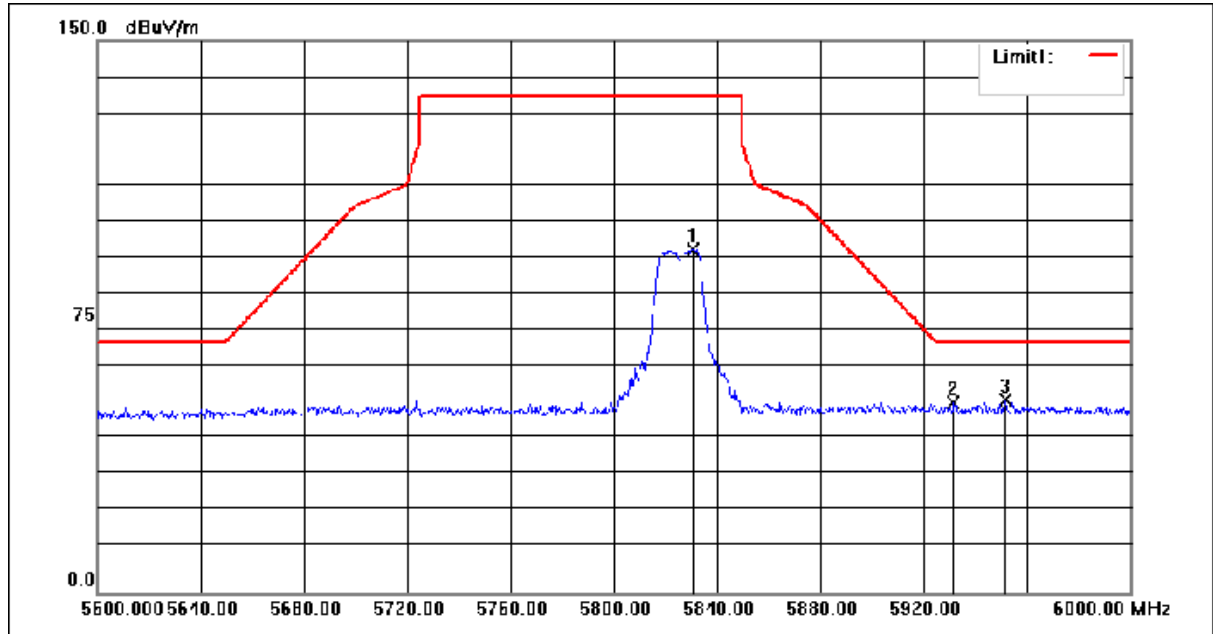
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5635.600	57.18	-6.88	50.30	68.20	-17.90	peak
2	5643.200	57.28	-6.86	50.42	68.20	-17.78	peak
3	5749.600	111.10	-6.59	104.51	135.00	-30.49	peak



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

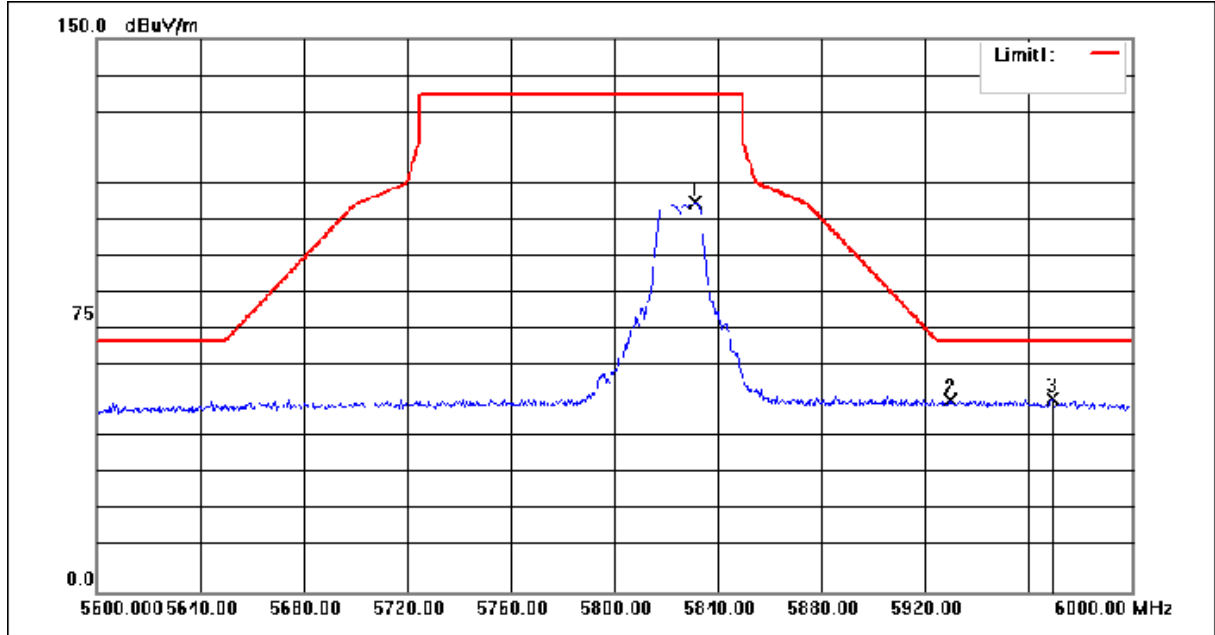


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5830.800	99.55	-6.29	93.26	135.00	-41.74	peak
2	5931.600	57.38	-5.73	51.65	68.20	-16.55	peak
3	5951.600	58.04	-5.63	52.41	68.20	-15.79	peak



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

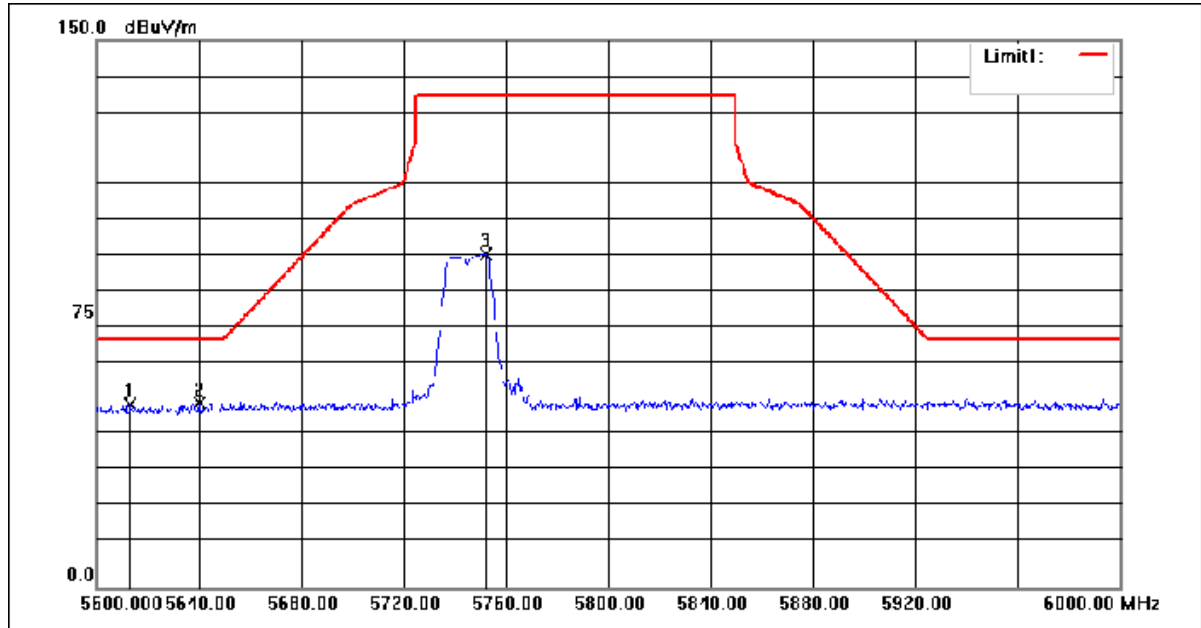


No.	Frequency (MHz)	Reading (dBUV)	Correction factor(dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	5831.200	111.90	-6.29	105.61	135.00	-29.39	peak
2	5929.600	57.57	-5.75	51.82	68.20	-16.38	peak
3	5969.200	57.85	-5.53	52.32	68.20	-15.88	peak



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

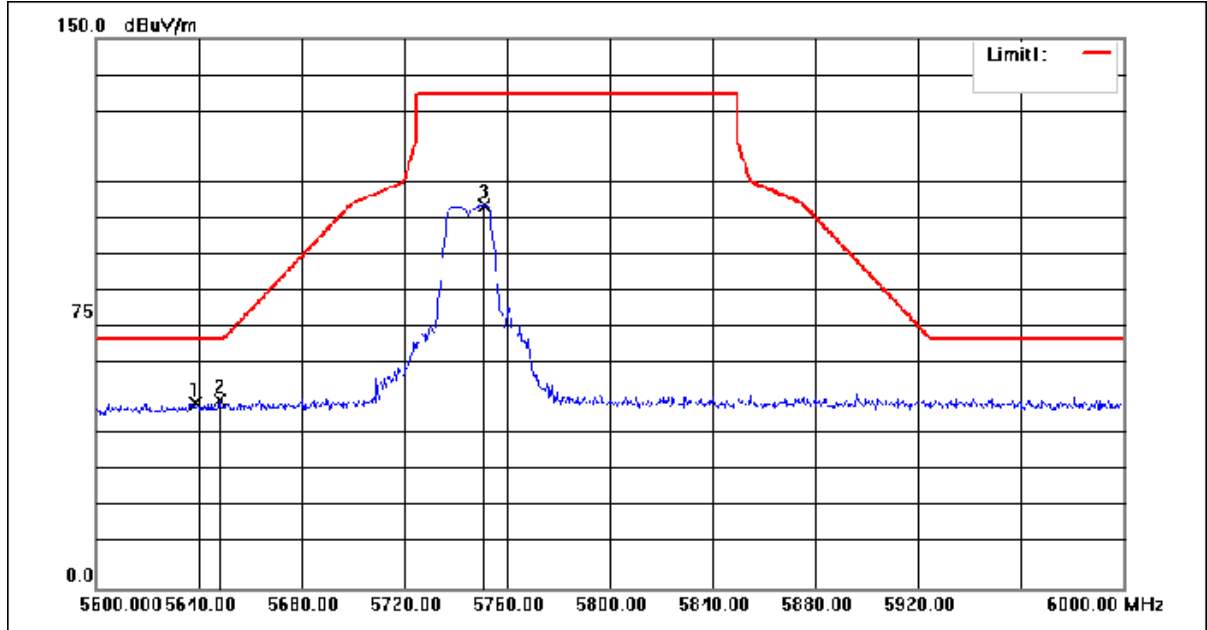


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5613.200	57.10	-6.94	50.16	68.20	-18.04	peak
2	5640.000	57.31	-6.87	50.44	68.20	-17.76	peak
3	5752.000	97.95	-6.58	91.37	135.00	-43.63	peak



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

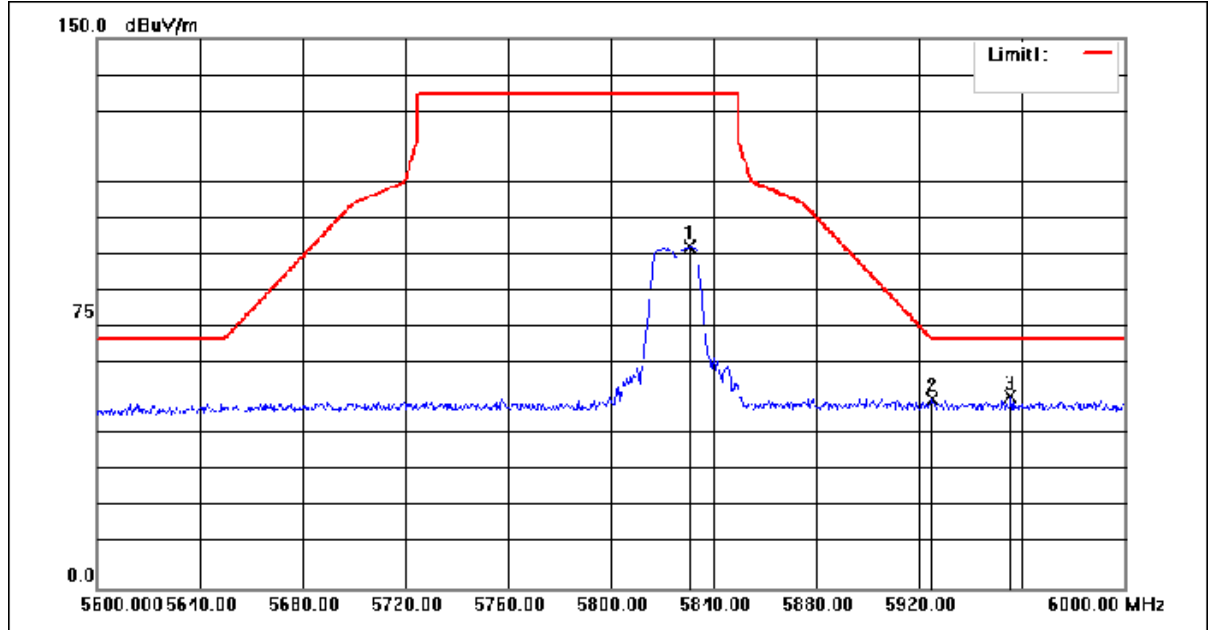


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5638.400	57.30	-6.87	50.43	68.20	-17.77	peak
2	5648.000	57.94	-6.85	51.09	68.20	-17.11	peak
3	5751.200	111.08	-6.58	104.50	135.00	-30.50	peak



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

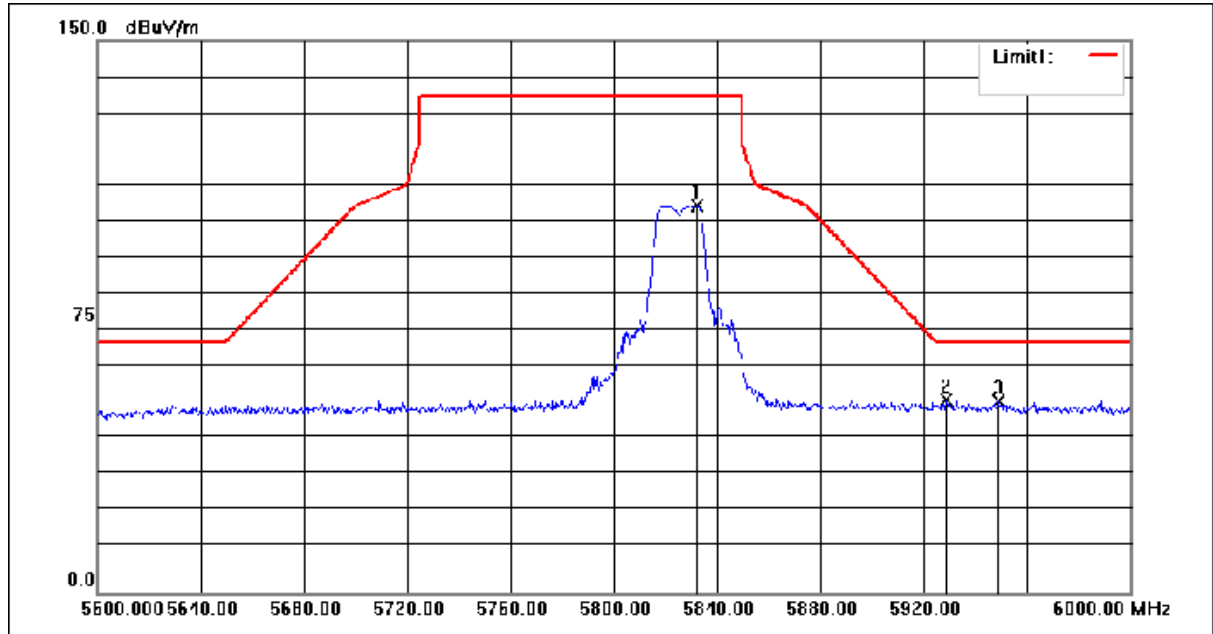


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5830.800	99.42	-6.29	93.13	135.00	-41.87	peak
2	5925.200	57.17	-5.77	51.40	68.20	-16.80	peak
3	5955.600	57.91	-5.61	52.30	68.20	-15.90	peak



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Mode: f; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: High

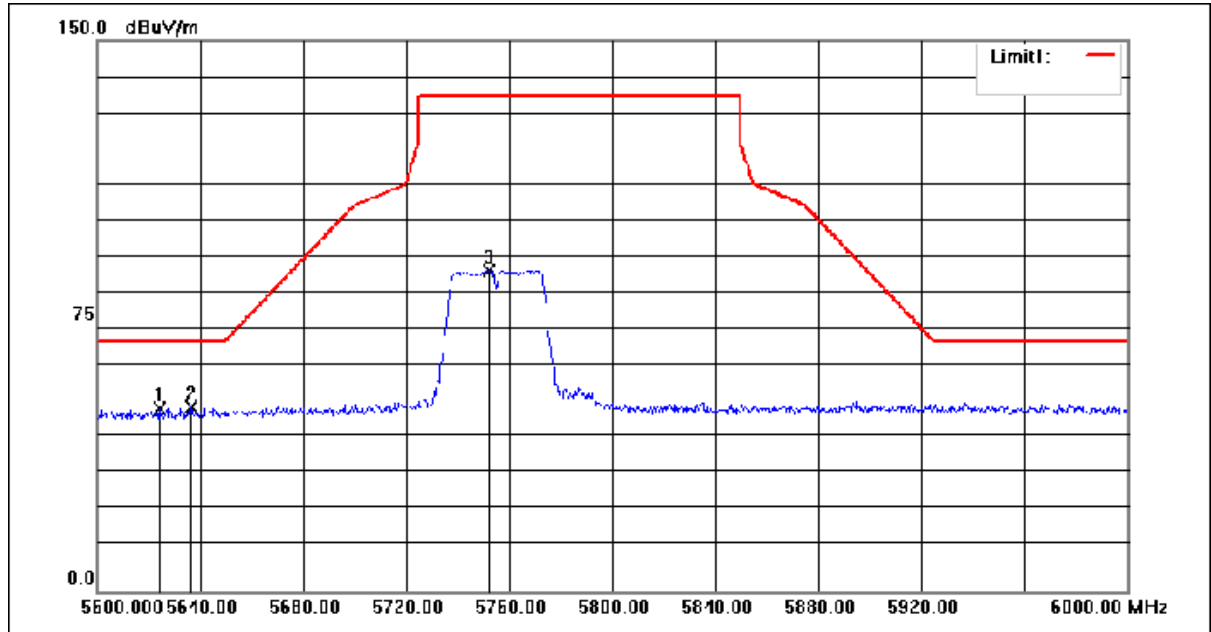


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5832.000	111.52	-6.28	105.24	135.00	-29.76	peak
2	5928.800	58.02	-5.75	52.27	68.20	-15.93	peak
3	5948.800	57.52	-5.65	51.87	68.20	-16.33	peak



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Mode: f; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: Low

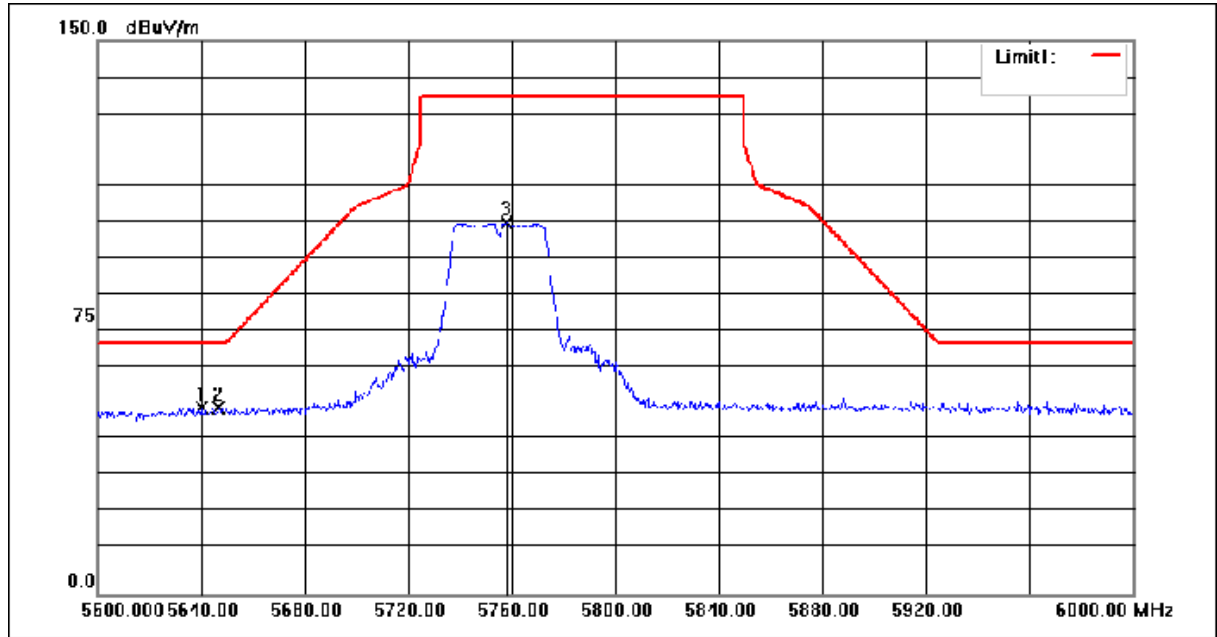


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5624.000	56.75	-6.90	49.85	68.20	-18.35	peak
2	5636.400	56.78	-6.88	49.90	68.20	-18.30	peak
3	5752.400	93.88	-6.58	87.30	135.00	-47.70	peak



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Mode: f; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: Low



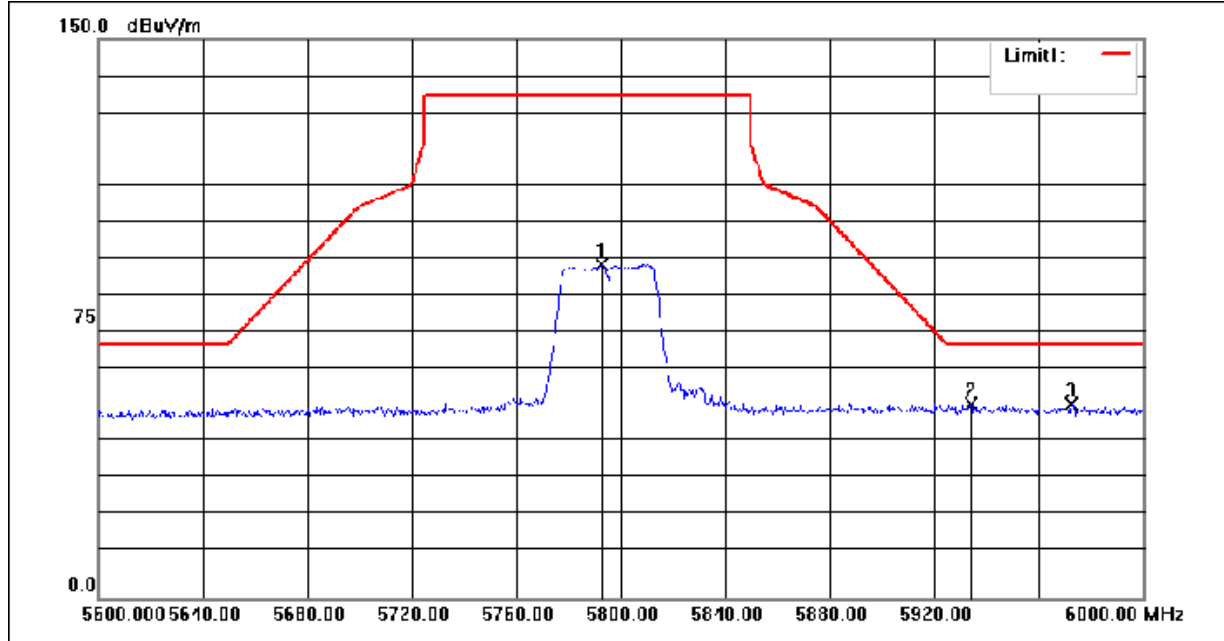
No.	Frequency (MHz)	Reading (dBUV)	Correction factor(dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	5640.000	57.31	-6.87	50.44	68.20	-17.76	peak
2	5646.800	57.34	-6.85	50.49	68.20	-17.71	peak
3	5758.000	107.10	-6.56	100.54	135.00	-34.46	peak



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Mode: f; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: High

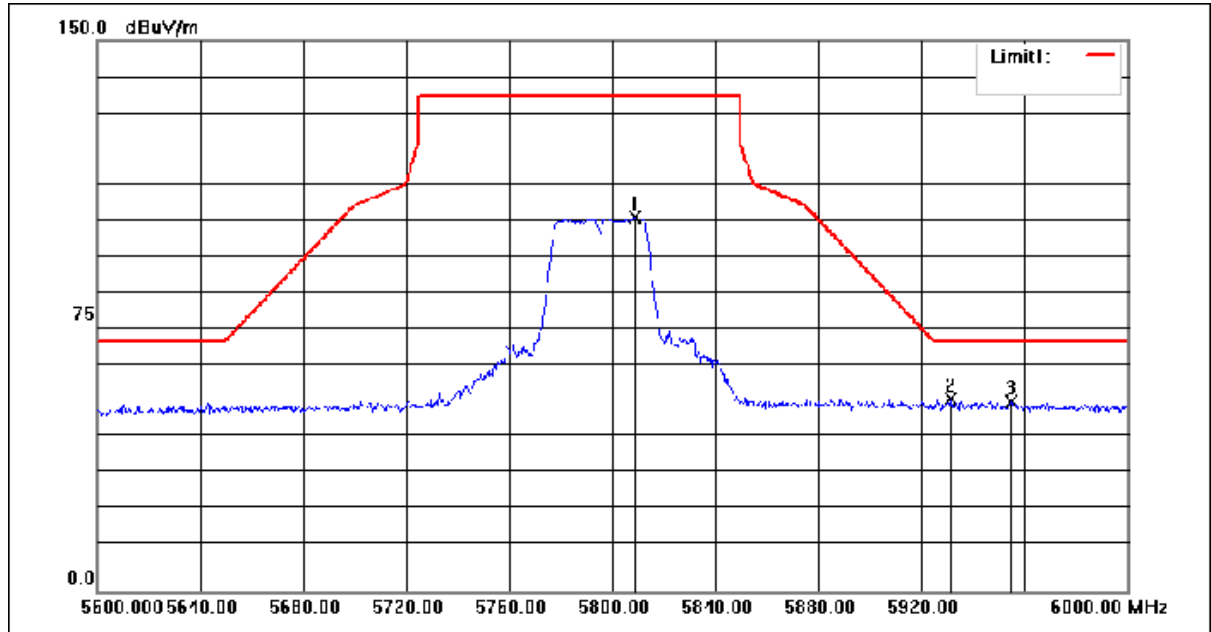


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5792.800	95.78	-6.48	89.30	135.00	-45.70	peak
2	5934.000	57.68	-5.73	51.95	68.20	-16.25	peak
3	5972.400	57.54	-5.51	52.03	68.20	-16.17	peak



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Mode: f; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: High

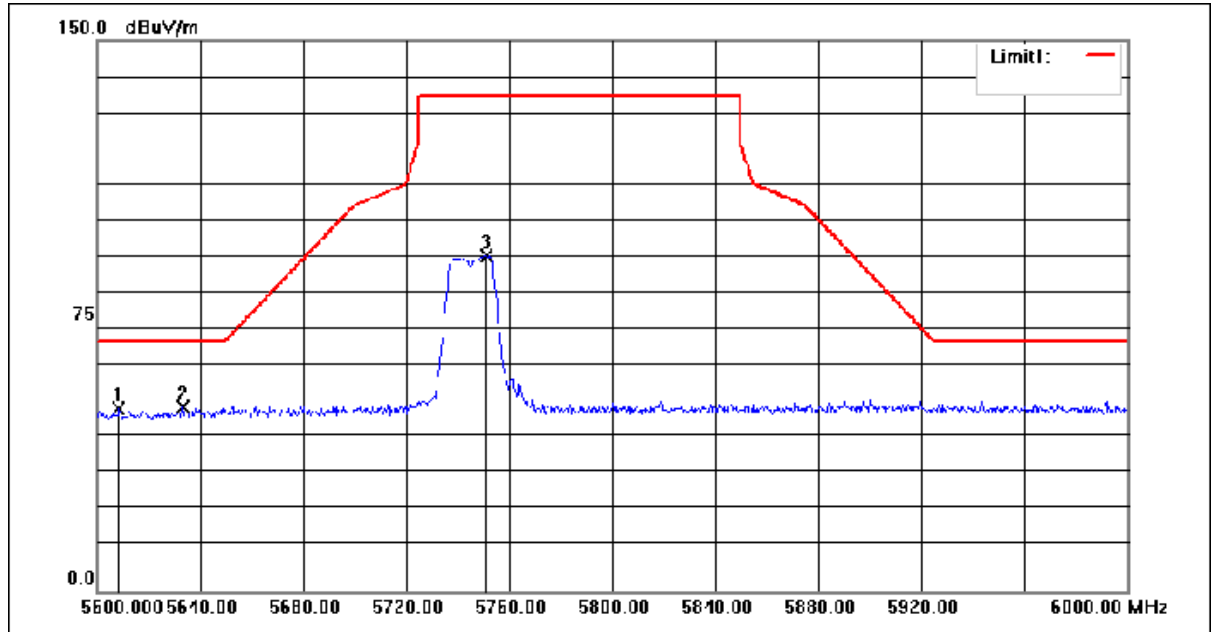


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5808.800	108.06	-6.42	101.64	135.00	-33.36	peak
2	5931.600	57.93	-5.73	52.20	68.20	-16.00	peak
3	5954.800	57.24	-5.61	51.63	68.20	-16.57	peak



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

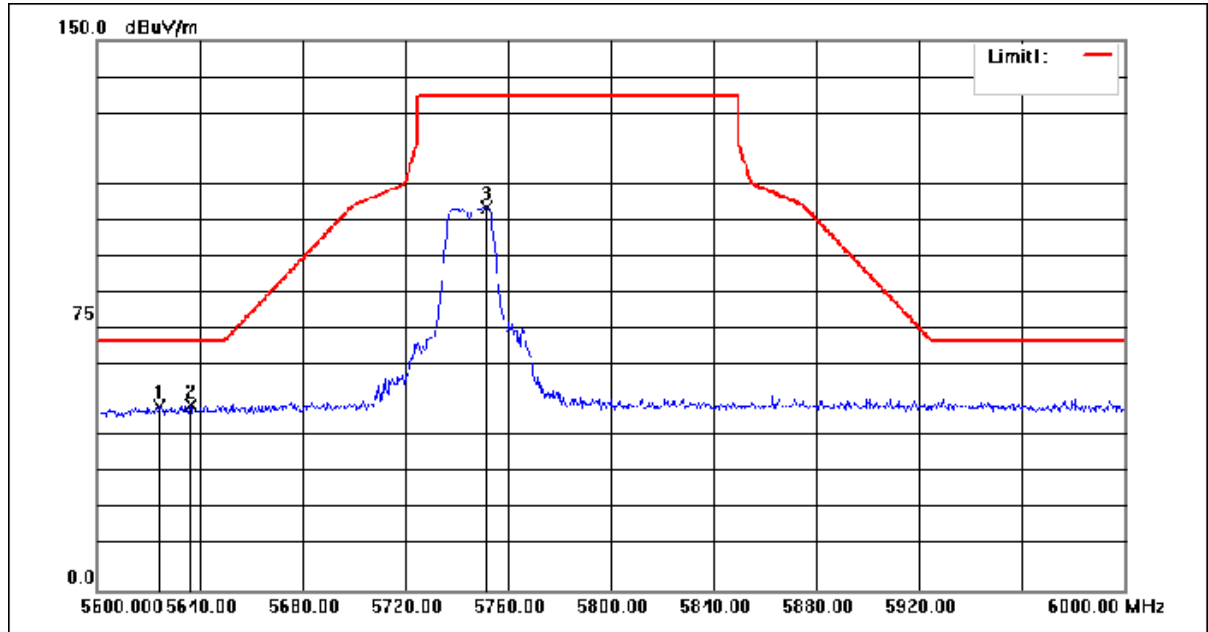


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5608.400	56.47	-6.95	49.52	68.20	-18.68	peak
2	5633.200	56.84	-6.89	49.95	68.20	-18.25	peak
3	5751.200	97.85	-6.58	91.27	135.00	-43.73	peak



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Mode: f; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: Low

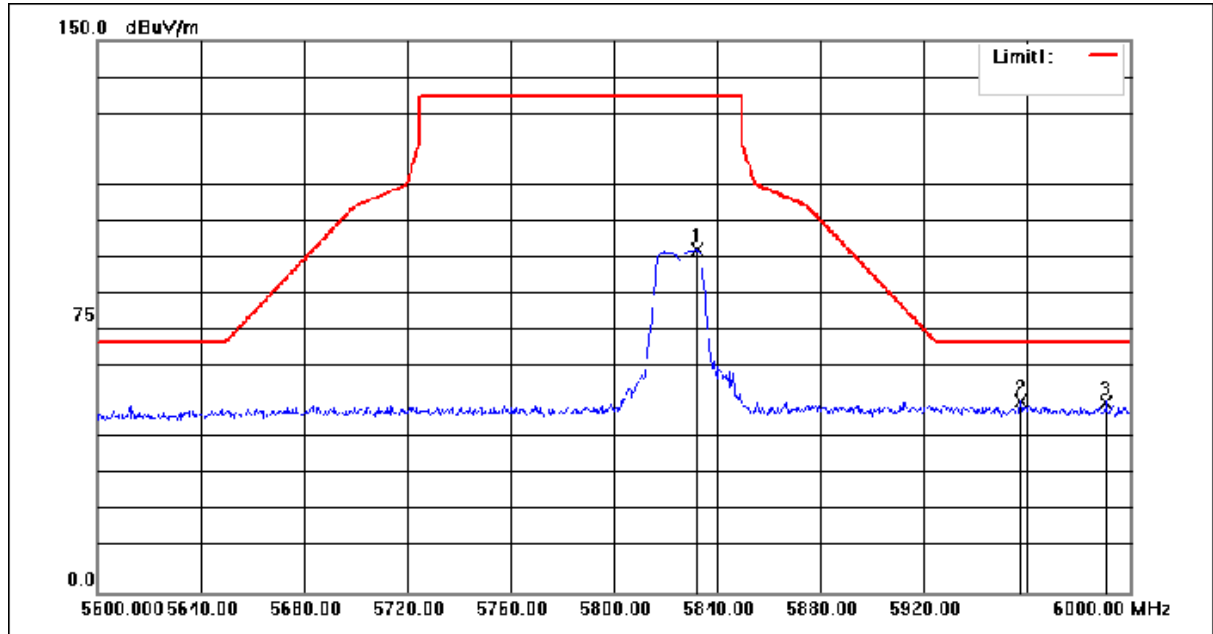


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5624.400	57.15	-6.90	50.25	68.20	-17.95	peak
2	5636.400	57.39	-6.88	50.51	68.20	-17.69	peak
3	5751.600	111.09	-6.58	104.51	135.00	-30.49	peak



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

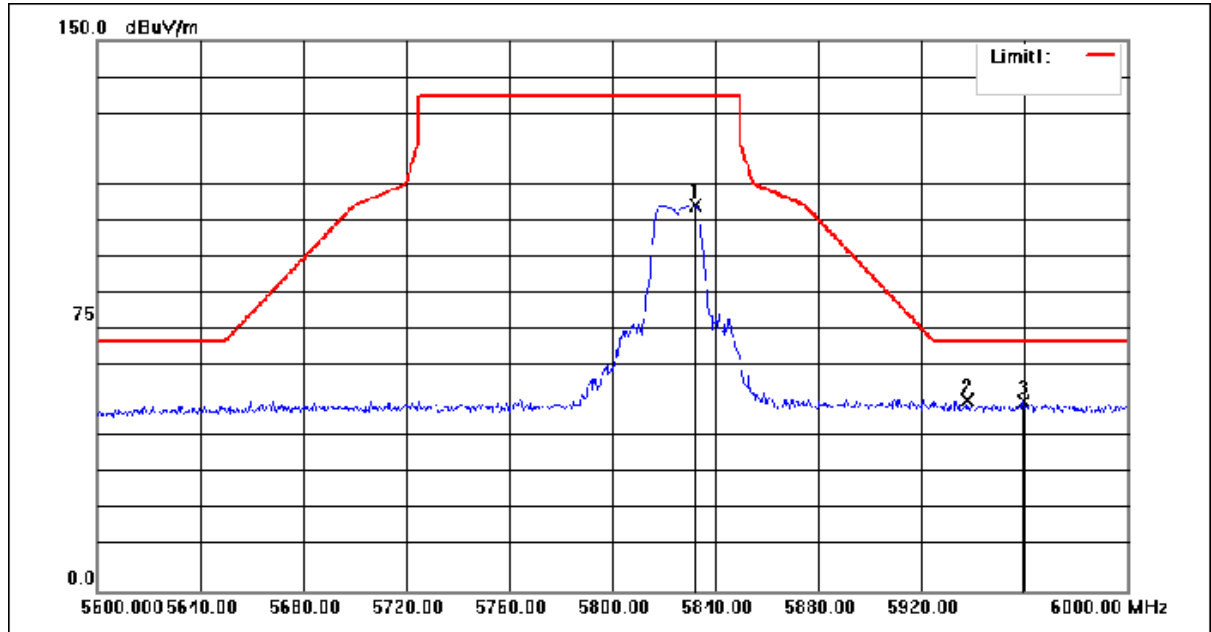


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5832.000	99.38	-6.28	93.10	135.00	-41.90	peak
2	5957.600	57.57	-5.59	51.98	68.20	-16.22	peak
3	5990.800	57.16	-5.41	51.75	68.20	-16.45	peak



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Mode: f; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: High

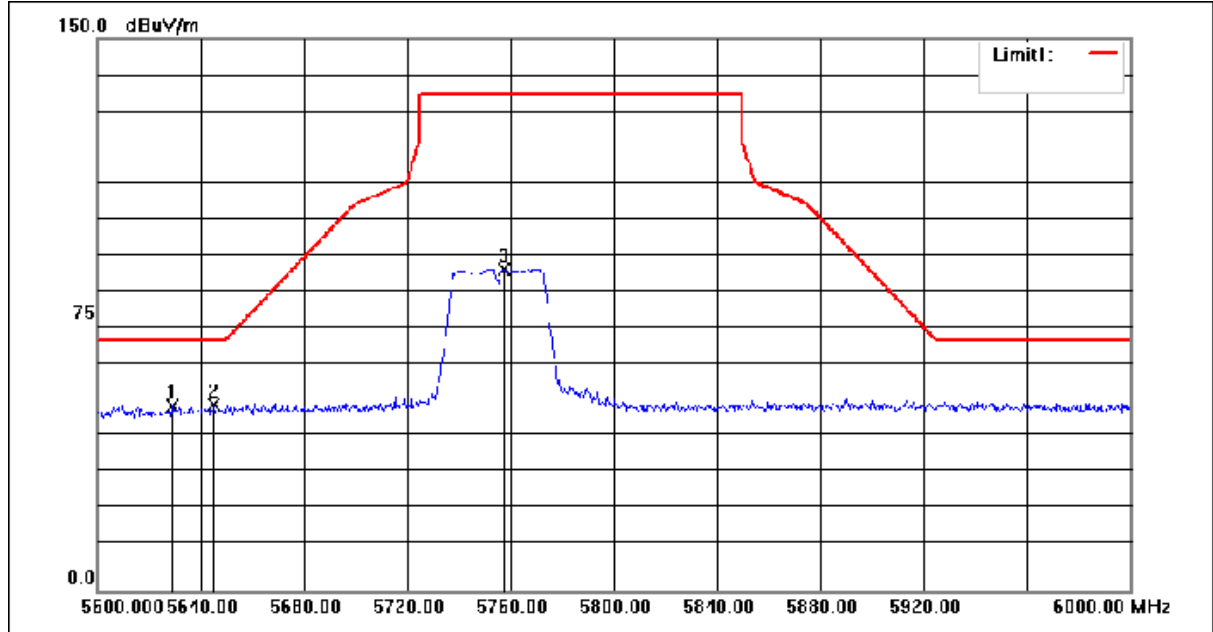


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5832.000	111.47	-6.28	105.19	135.00	-29.81	peak
2	5937.600	57.58	-5.70	51.88	68.20	-16.32	peak
3	5959.600	57.04	-5.59	51.45	68.20	-16.75	peak



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Mode: f; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: Low

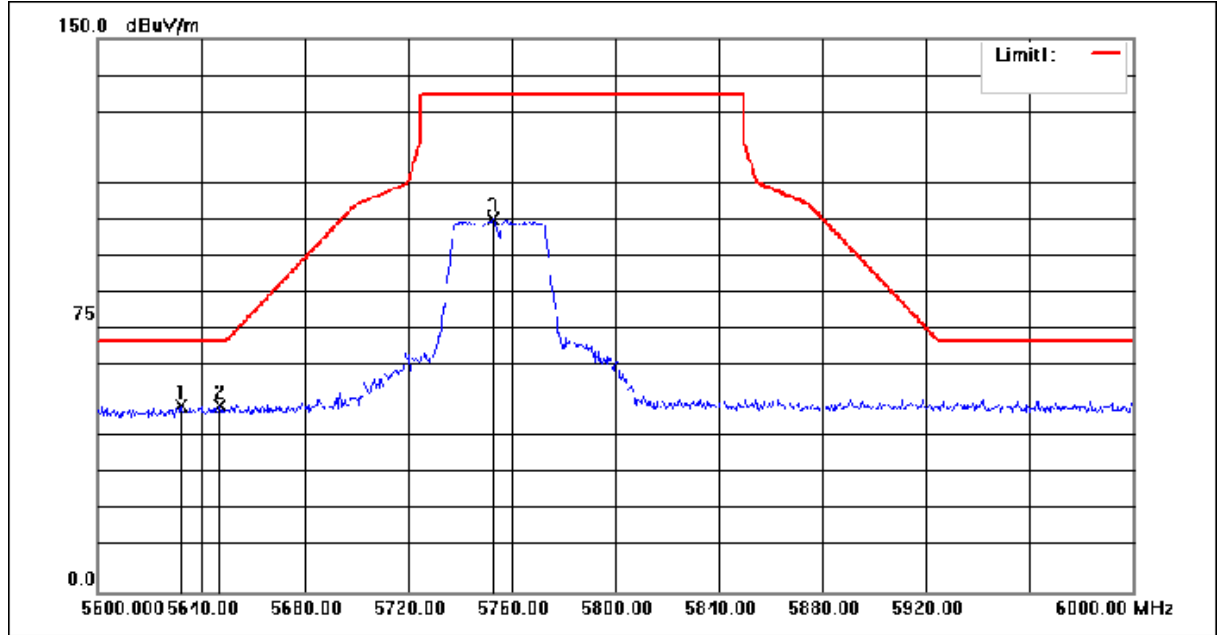


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5629.200	56.95	-6.90	50.05	68.20	-18.15	peak
2	5645.200	57.27	-6.85	50.42	68.20	-17.78	peak
3	5757.600	93.87	-6.56	87.31	135.00	-47.69	peak



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Mode: f; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: Low



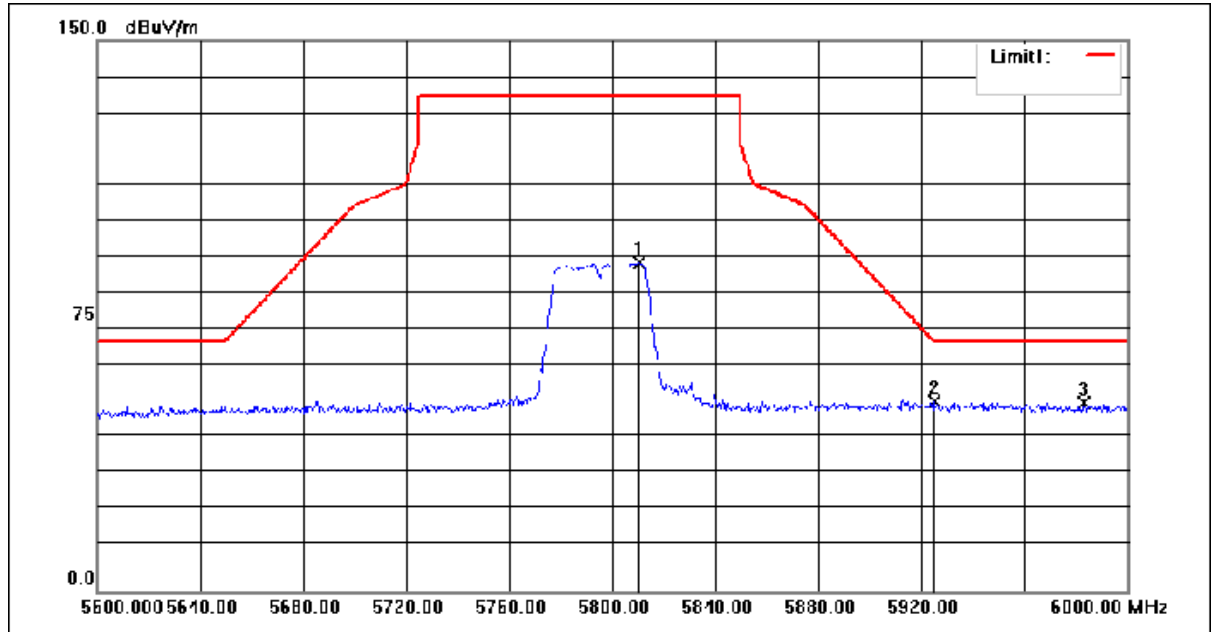
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5632.000	57.33	-6.89	50.44	68.20	-17.76	peak
2	5647.200	57.32	-6.85	50.47	68.20	-17.73	peak
3	5752.800	107.58	-6.58	101.00	135.00	-34.00	peak



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Mode: f; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: High

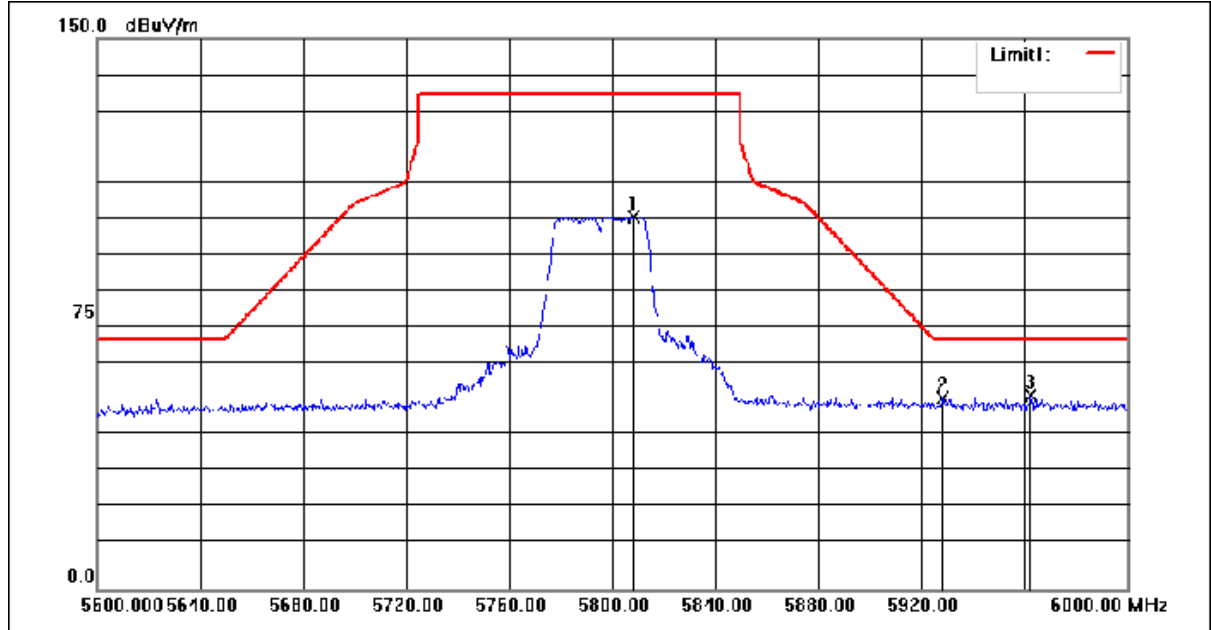


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5810.400	95.66	-6.40	89.26	135.00	-45.74	peak
2	5924.800	57.21	-5.77	51.44	68.35	-16.91	peak
3	5983.200	56.70	-5.45	51.25	68.20	-16.95	peak



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Mode: f; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: High

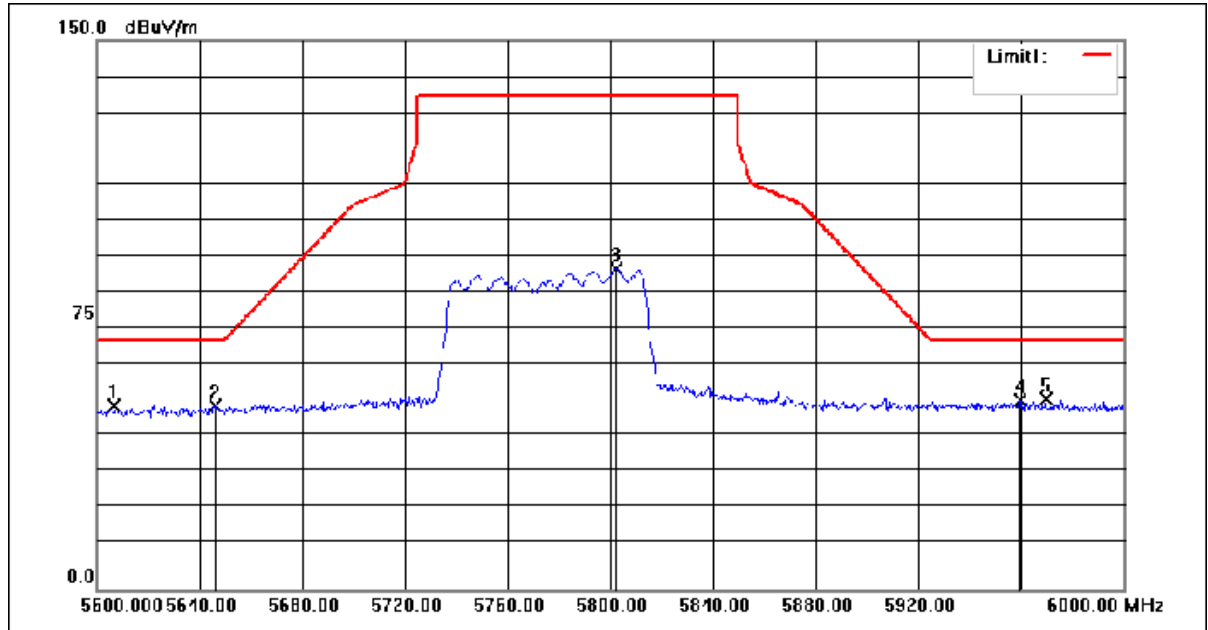


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5808.400	107.94	-6.42	101.52	135.00	-33.48	peak
2	5928.400	57.75	-5.76	51.99	68.20	-16.21	peak
3	5962.400	58.42	-5.57	52.85	68.20	-15.35	peak



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Mode: f; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: Low

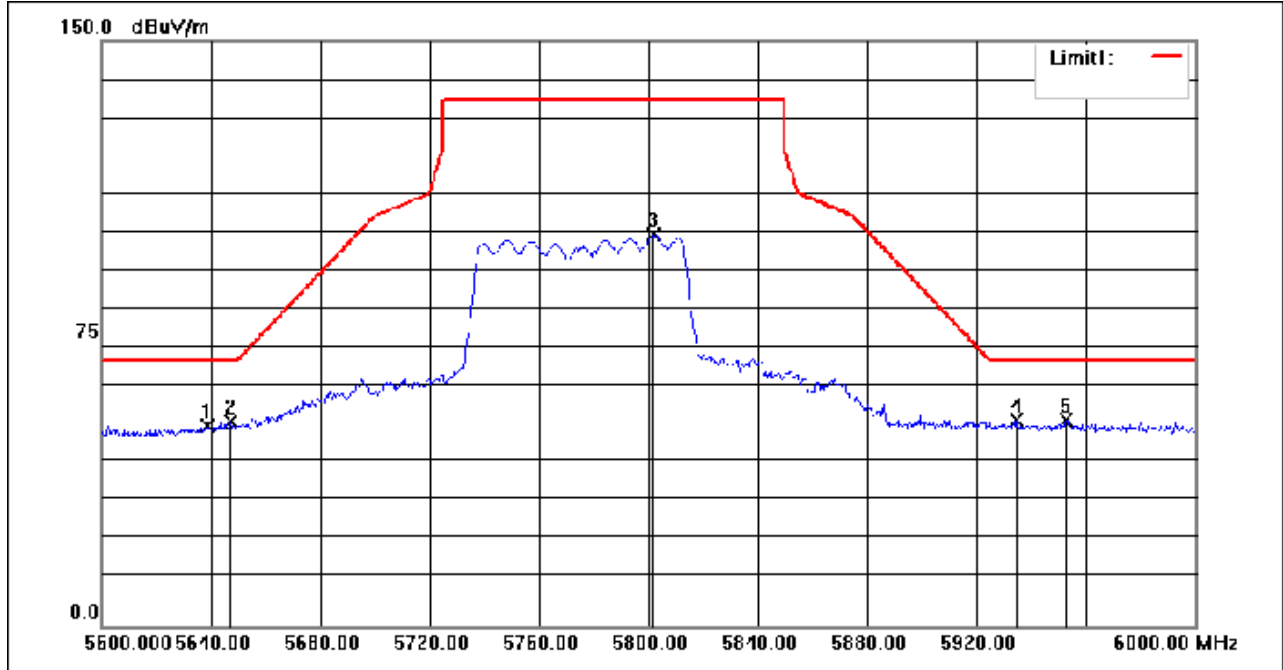


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5606.800	56.90	-6.95	49.95	68.20	-18.25	peak
2	5646.000	56.77	-6.85	49.92	68.20	-18.28	peak
3	5802.400	94.07	-6.44	87.63	135.00	-47.37	peak
4	5959.600	57.00	-5.59	51.41	68.20	-16.79	peak
5	5969.600	57.32	-5.52	51.80	68.20	-16.40	peak



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Mode: f; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5638.400	58.05	-6.87	51.18	68.20	-17.02	peak
2	5647.200	59.34	-6.85	52.49	68.20	-15.71	peak
3	5802.000	106.59	-6.45	100.14	135.00	-34.86	peak
4	5934.400	58.23	-5.72	52.51	68.20	-15.69	peak
5	5952.800	58.48	-5.62	52.86	68.20	-15.34	peak



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## 7.8 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.



**7.8.1 E.U.T. Operation**

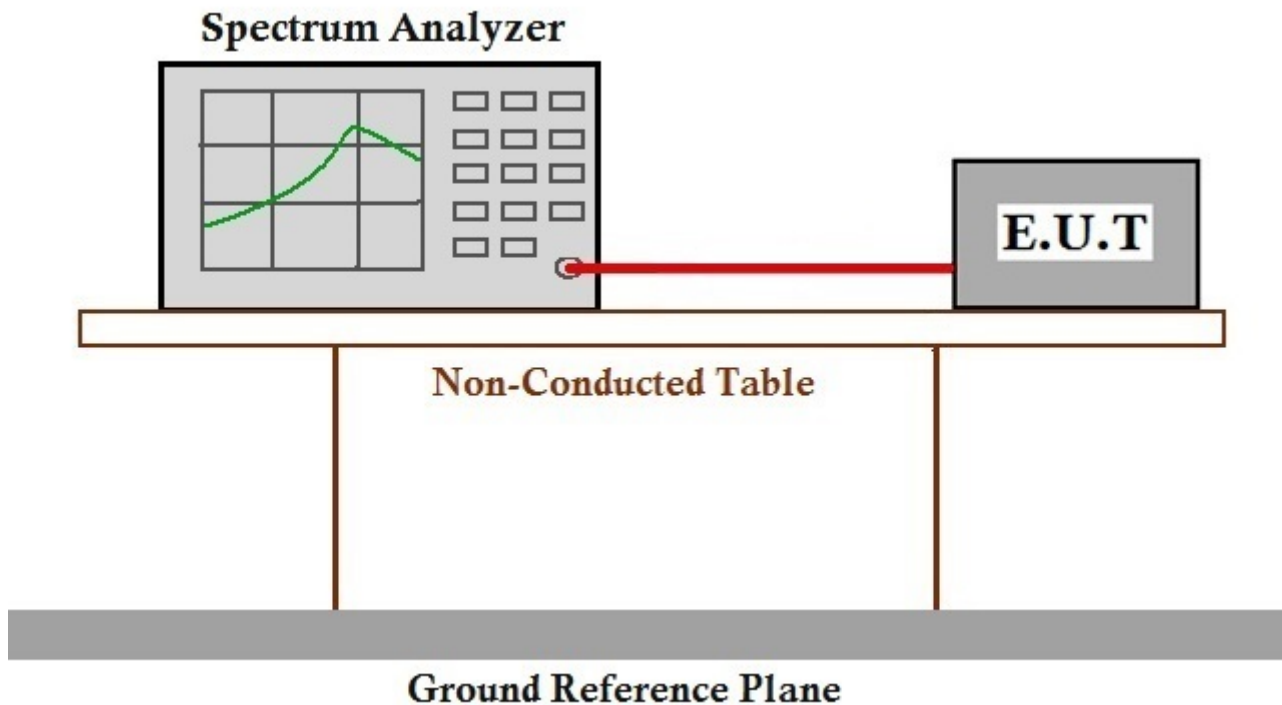
Operating Environment:

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

Test Mode e: 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); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

f: 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); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

**7.8.2 Test Setup Diagram**



**7.8.3 Measurement Procedure and Data**

The detailed test data see: Appendix D for KSCR211000016504



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No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgs.com.cn  
t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

## 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 -

