

# TEST REPORT

**Application No.:** KSCR2201000028AT  
**FCC ID:** 2ADTD-DS-D5B55  
**IC:** 20199-DSD5B55  
**Applicant:** Hangzhou Hikvision Digital Technology Co., Ltd.  
**Address of Applicant:** No.555 Qianmo Road,Binjiang District Hangzhou 310052,China  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
**Address of Manufacturer:** No.555 Qianmo Road,Binjiang District Hangzhou 310052,China  
**Factory:**  
 1.Hangzhou Hikvision Technology Co., Ltd.  
 2.Hangzhou Hikvision Electronics Co., Ltd.  
 3.Hangzhou Hikvision Digital Technology Co., Ltd.  
 4.Chongqing Hikvision technology Co.,LTD  
**Address of Factory:**  
 1.No.700,Dongliu Road, Binjiang District, Hangzhou Ctiy, Zhejiang, 310052, China;  
 2.No.299,Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou,Zhejiang,310052,China  
 3.No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China  
 4.NO.118.Haikang Road,Area C,Jianqiao Industrial Park,Dadukou District,Chongqing,401325,China.

**Equipment Under Test (EUT):**

**EUT Name:** Interactive Tablets  
**Model No.:** Refer to page 2~3  
 □ 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  
 RSS-247 Issue 2, February 2017  
 RSS-Gen Issue 5 Amendment 2 (February 2021)

**Date of Receipt:** 2022-01-05  
**Date of Test:** 2022-03-07 to 2022-03-10  
**Date of Issue:** 2022-03-12

<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



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Model No:

DS-D5B55RB/A;DS-D5B55RB/B;DS-D5B55RB/C;DS-D5B55RD/A;DS-D5B55RD/B;DS-D5B55RD/C;DS-D5B55RO/A;DS-D5B55RO/B;DS-D5B55RO/C;DS-D5B55RG/A;DS-D5B55RG/B;DS-D5B55RG/C;DS-D5B55RM/A;DS-D5B55RM/B;DS-D5B55RM/C;DS-D5B55JRX;DS-D5B55JRY;DS-D5B55JRZ;DS-D5B55NYX;DS-D5B55NYY;DS-D5B55NYZ;DS-D5B55ZFX;DS-D5B55ZFY;DS-D5B55ZFZ;DS-D5B55GAX;DS-D5B55GAY;DS-D5B55GAZ;DS-D5B55DCX;DS-D5B55DCY;DS-D5B55DCZ;DS-D5B55RB/ZC;DS-D5B55RD/ZC;DS-D5B55XX/ZC;DS-D5B55RD/AO;DS-D5B55RD/AP;DS-D5B55RB/AO;DS-D5B55RB/AP;DS-D5B55RD/BO;DS-D5B55RD/BP;DS-D5B55RB/BO;DS-D5B55RB/BP;DS-D5B55MD/AO;DS-D5B55MD/AP;DS-D5B55MB/AO;DS-D5B55MB/AP;DS-D5B55MD/BO;DS-D5B55MD/BP;DS-D5B55MB/BO;DS-D5B55MB/BP;DS-D5B55CD/AO;DS-D5B55CD/AP;DS-D5B55CB/AO;DS-D5B55CB/AP;DS-D5B55CD/BO;DS-D5B55CD/BP;DS-D5B55CB/BO;DS-D5B55CB/BP;DS-D5B55FD/AO;DS-D5B55FD/AP;DS-D5B55FB/AO;DS-D5B55FB/AP;DS-D5B55FD/A;DS-D5B55FD/BO;DS-D5B55FD/BP;DS-D5B55FB/BO;DS-D5B55FB/BP;DS-D5B55FD/B;DS-D5B55FB/B;DS-D5C55RB/A;DS-D5C55RB/B;DS-D5C55RB/C;DS-D5C55RD/A;DS-D5C55RD/B;DS-D5C55RD/C;DS-D5C55RO/A;DS-D5C55RO/B;DS-D5C55RO/C;DS-D5C55RG/A;DS-D5C55RG/B;DS-D5C55RG/C;DS-D5C55RM/A;DS-D5C55RM/B;DS-D5C55RM/C;DS-D5C55JRX;DS-D5C55JRY;DS-D5C55JRZ;DS-D5C55NYX;DS-D5C55NYY;DS-D5C55NYZ;DS-D5C55ZFX;DS-D5C55ZFY;DS-D5C55ZFZ;DS-D5C55GAX;DS-D5C55GAY;DS-D5C55GAZ;DS-D5C55DCX;DS-D5C55DCY;DS-D5C55DCZ;DS-D5C55RB/ZC;DS-D5C55RD/ZC;DS-D5C55XX/ZC;DS-D5C55RD/AO;DS-D5C55RD/AP;DS-D5C55RB/AO;DS-D5C55RB/AP;DS-D5C55RD/BO;DS-D5C55RD/BP;DS-D5C55RB/BO;DS-D5C55RB/BP;DS-D5C55MD/AO;DS-D5C55MD/AP;DS-D5C55MB/AO;DS-D5C55MB/AP;DS-D5C55MD/BO;DS-D5C55MD/BP;DS-D5C55MB/BO;DS-D5C55MB/BP;DS-D5C55CD/AO;DS-D5C55CD/AP;DS-D5C55CB/AO;DS-D5C55CB/AP;DS-D5C55CD/BO;DS-D5C55CD/BP;DS-D5C55CB/BO;DS-D5C55CB/BP;DS-D5C55FD/AO;DS-D5C55FD/AP;DS-D5C55FB/AO;DS-D5C55FB/AP;DS-D5C55FD/A;DS-D5C55FB/B;DS-D5C55FD/BO;DS-D5C55FD/BP;DS-D5C55FB/BO;DS-D5C55FB/BP;DS-D5C55FD/B;DS-D5C55FB/B;DS-D5D55RB/A;DS-D5D55RB/B;DS-D5D55RB/C;DS-D5D55RD/A;DS-D5D55RD/B;DS-D5D55RD/C;DS-D5D55RO/A;DS-D5D55RO/B;DS-D5D55RO/C;DS-D5D55RG/A;DS-D5D55RG/B;DS-D5D55RG/C;DS-D5D55RM/A;DS-D5D55RM/B;DS-D5D55RM/C;DS-D5D55JRX;DS-D5D55JRY;DS-D5D55JRZ;DS-D5D55NYX;DS-D5D55NYY;DS-D5D55NYZ;DS-D5D55ZFX;DS-D5D55ZFY;DS-D5D55ZFZ;DS-D5D55GAX;DS-D5D55GAY;DS-D5D55GAZ;DS-D5D55DCX;DS-D5D55DCY;DS-D5D55DCZ;DS-D5D55RB/ZC;DS-D5D55RD/ZC;DS-D5D55XX/ZC;DS-D5D55RD/AO;DS-D5D55RD/AP;DS-D5D55RB/AO;DS-D5D55RB/AP;DS-D5D55RD/BO;DS-D5D55RD/BP;DS-D5D55RB/BO;DS-D5D55RB/BP;DS-D5D55MD/AO;DS-D5D55MD/AP;DS-D5D55MB/AO;DS-D5D55MB/AP;DS-D5D55MD/BO;DS-D5D55MD/BP;DS-D5D55MB/BO;DS-D5D55MB/BP;DS-D5D55CD/AO;DS-D5D55CD/AP;DS-D5D55CB/AO;DS-D5D55CB/AP;DS-D5D55CD/BO;DS-D5D55CD/BP;DS-D5D55CB/BO;DS-D5D55CB/BP;DS-D5D55FD/AO;DS-D5D55FD/AP;DS-D5D55FB/AO;DS-D5D55FB/AP;DS-D5D55FD/A;DS-D5D55FD/B;DS-D5D55FD/BO;DS-D5D55FD/BP;DS-D5D55FB/BO;DS-D5D55FB/BP;DS-D5D55FD/B;DS-D5D55FB/B;DS-D5F55RB/A;DS-D5F55RB/B;DS-D5F55RB/C;DS-D5F55RD/A;DS-D5F55RD/B;DS-D5F55RD/C;DS-D5F55RO/A;DS-D5F55RO/B;DS-D5F55RO/C;DS-D5F55RG/A;DS-D5F55RG/B;DS-D5F55RG/C;DS-D5F55RM/A;DS-D5F55RM/B;DS-D5F55RM/C;DS-D5F55JRX;DS-D5F55JRY;DS-D5F55JRZ;DS-D5F55NYX;DS-D5F55NYY;DS-D5F55NYZ;DS-D5F55ZFX;DS-D5F55ZFY;DS-D5F55ZFZ;DS-D5F55GAX;DS-D5F55GAY;DS-D5F55GAZ;DS-D5F55DCX;DS-D5F55DCY;DS-D5F55DCZ;DS-D5F55RB/ZC;DS-D5F55RD/ZC;DS-D5F55XX/ZC;DS-D5F55RD/AO;DS-D5F55RD/AP;DS-D5F55RB/AO;DS-D5F55RB/AP;DS-D5F55RD/BO;DS-D5F55RD/BP;DS-D5F55RB/BO;DS-D5F55RB/BP;DS-D5F55MD/AO;DS-D5F55MD/AP;DS-D5F55MB/AO;DS-D5F55MB/AP;DS-D5F55MD/BO;DS-D5F55MD/BP;DS-D5F55MB/BO;DS-D5F55MB/BP;DS-D5F55CD/AO;DS-D5F55CD/AP;DS-D5F55CB/AO;DS-D5F55CB/AP;DS-D5F55CD/BO;DS-D5F55CD/BP;DS-D5F55CB/BO;DS-D5F55CB/BP;DS-D5F55FD/AO;DS-D5F55FD/AP;DS-D5F55FB/AO;DS-D5F55FB/AP;DS-D5F55FD/A;DS-D5F55FD/B;DS-D5F55FD/BO;DS-D5F55FD/BP;DS-D5F55FB/BO;DS-D5F55FB/BP;DS-D5F55FD/B;DS-D5A55RB/A;DS-D5A55RB/B;DS-D5A55RB/C;DS-D5A55RD/A;DS-D5A55RD/B;DS-D5A55RD/C;DS-D5A55RO/A;DS-D5A55RO/B;DS-D5A55RO/C;DS-D5A55RG/A;DS-D5A55RG/B;DS-D5A55RG/C;DS-D5A55RM/A;DS-D5A55RM/B;DS-D5A55RM/C;DS-D5A55JRX;DS-D5A55JRY;DS-D5A55JRZ;DS-D5A55NYX;DS-D5A55NYY;DS-D5A55NYZ;DS-D5A55ZFX;DS-D5A55ZFY;DS-D5A55ZFZ;DS-D5A55GAX;DS-D5A55GAY;DS-D5A55GAZ;DS-D5A55DCX;DS-D5A55DCY;DS-



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D5A55DCZ;DS-D5A55RB/ZC;DS-D5A55RD/ZC;DS-D5A55XX/ZC;DS-D5A55RD/AO;DS-D5A55RD/AP;DS-D5A55RB/AO;DS-D5A55RB/AP;DS-D5A55RD/BO;DS-D5A55RD/BP;DS-D5A55RB/BO;DS-D5A55RB/BP;DS-D5A55MD/AO;DS-D5A55MD/AP;DS-D5A55MB/AO;DS-D5A55MB/AP;DS-D5A55MD/BO;DS-D5A55MD/BP;DS-D5A55MB/BO;DS-D5A55MB/BP;DS-D5A55CD/AO;DS-D5A55CD/AP;DS-D5A55CB/AO;DS-D5A55CB/AP;DS-D5A55CD/BO;DS-D5A55CD/BP;DS-D5A55CB/BO;DS-D5A55CB/BP;DS-D5A55FD/AO;DS-D5A55FD/AP;DS-D5A55FB/AO;DS-D5A55FB/AP;DS-D5A55FD/A;DS-D5A55FB/A;DS-D5A55FD/BO;DS-D5A55FD/BP;DS-D5A55FB/BO;DS-D5A55FB/BP;DS-D5A55FD/B;DS-D5A55FB/B;DS-D5X55XX/X;DS-D5X55XX/XX;DS-D5XXXXX/XXX;DS-D5XXXXX/XXXX("X" stands for A-Z, 0-9 or blank)

**For IC Model No.:**

DS-D5B55RB/A, DS-D5B55RB/B



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Revision Record			
Version	Description	Date	Remark
00	Original	2022-03-12	/

<b>Authorized for issue by:</b>			
	<b>Tommie.Tang / Project Engineer</b>		
	<b>Eric Lin / Reviewer</b>		



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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	47 CFR Part 15, Subpart E 15.407 (g)	RSS-Gen Section 6.11	ANSI C63.10 (2013) Section 6.8& RSS-Gen Section 6.11	Pass

### 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 DS-D5B55RB/A was tested since their differences were the model number and appearance.



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## 4 General Information

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

Power supply: AC100-240V 50/60Hz  
 Test voltage: AC 120V/60Hz

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n(HT20)/ac(HT20)	5180-5240	4
		802.11n(HT40)/ac(HT40)	5190-5230	2
		802.11ac(HT80)	5210	1
	UNII Band III	802.11a/n(HT20)/ac(HT20)	5745-5825	5
		802.11n(HT40)/ac(HT40)	5755-5795	2
		802.11ac(HT80)	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:VHT MCS0-MCS7			
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz 802.11n(HT40)/ac(HT40): 40MHz 802.11ac(HT80): 80MHz			
Antenna Gain:	For Module MT7668 Ant1: 2.30dBi (Provided by the manufacturer) Ant2: 0.78dBi (Provided by the manufacturer) Directional gain:4.62dBi For Module RTL8812CU Ant1: 3.06dBi (Provided by the manufacturer) Ant2: 3.60dBi (Provided by the manufacturer) Directional gain:6.35dBi			
Antenna Type:	For Module MT7668 Antenna 1:PCB Antenna Antenna 2: PCB Antenna For Module RTL8812CU Antenna 1:PCB Antenna Antenna 2: PCB Antenna			
Firmware Version:	V2.0.0 build210406			
S/N:	G15774843			



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

**MT7668**

Channel	802.11a		802.11n(HT20)		802.11ac(VHT20)	
	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
36	10	10	10	10	10	10
40	10	10	10	10	10	10
48	10	10	10	10	10	10
149	10	10	10	10	10	10
157	10	10	10	10	10	10
165	10	10	10	10	10	10
Channel	802.11n(HT40)		802.11ac(VHT40)			
	Ant 1	Ant 2	Ant 1	Ant 2		
38	10	10	10	10		
46	10	10	10	10		
151	10	10	10	10		
159	10	10	10	10		
Channel	802.11ac(VHT80)					
	Ant 1	Ant 2				
42	10	10				
155	10	10				



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**RTL8812CU**

Channel	802.11a		802.11n(HT20)		802.11ac(VHT20)	
	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
36	Default	Default	Default	Default	Default	Default
40	Default	Default	Default	Default	Default	Default
48	Default	Default	Default	Default	Default	Default
149	Default	Default	Default	Default	Default	Default
157	Default	Default	Default	Default	Default	Default
165	Default	Default	Default	Default	Default	Default
Channel	802.11n(HT40)		802.11ac(VHT40)			
	Ant 1	Ant 2	Ant 1	Ant 2		
38	Default	Default	Default	Default		
46	Default	Default	Default	Default		
151	Default	Default	Default	Default		
159	Default	Default	Default	Default		
Channel	802.11ac(VHT80)					
	Ant 1	Ant 2				
42	Default	Default				
155	Default	Default				

**4.3 Description of Support Units**

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	EB24537645
SecureCRT	VanDyke	V 6.2.0	/
Serial port adapter plate	/	Test Plate 3	/



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#### 4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
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 (Kunshan) 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
<b>Conducted Emission at Mains Terminals (150kHz-30MHz)</b>						
1	EMI Test Receive	R&S	ESCI	100781	01/22/2022	01/21/2023
2	LISN	R&S	ENV216	101604	10/12/2021	10/11/2022
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/12/2021	10/11/2022
4	Pulse Limiter	R&S	ESH3-Z2	100609	01/22/2022	01/21/2023
5	CE test Cable	Thermax	/	14	10/16/2021	10/15/2022
6	Test Software	Faratronic	EZ-EMC	CCS-03A1	N.C.R	N.C.R
<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
4	Signal Generator	Agilent	N5182A	MY50142015	08/27/2021	08/26/2022
5	Spectrum Analyzer	Keysight	N9030B	MY61330164	01/22/2022	01/21/2023
6	Vector Signal Generator	R&S	SMW200A	110074	10/12/2021	10/11/2022
7	Radio Communication Test Station	Anritsu	MT8000A	6262012849	09/23/2021	09/22/2022
8	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	09/23/2021	09/22/2022
9	Universal Radio Communication Tester	R&S	CMW500	159275	10/12/2021	10/11/2022
10	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022
11	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022
12	Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
13	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
14	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
15	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
16	Power Divider	AI SI	IOWOPE2068	PE2068	N.C.R	N.C.R
17	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
18	Conducted Test Cable	/	RF01-RF04	/	04/15/2021	04/14/2022
19	Software	BST	TST-PASS	N/A	N/A	N/A
20	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022
21	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	Com-Power	AL-130R	10160008	04/13/2021	04/12/2023
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	02/20/2022	02/19/2023
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



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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_EMG	N/A	N/A	N/A



## 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:

For Module MT7668:

The antenna 1 and antenna 2 is PCB Antenna, and no consideration of replacement. The best case gain of the antenna 1 is 2.30dBi and antenna 2 is 0.78dBi.

For Module RTL8812cu:

The antenna 1 and antenna 2 is PCB Antenna, and no consideration of replacement. The best case gain of the antenna 1 is 3.06dBi and antenna 2 is 3.60dBi.

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 E 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 module MT7668 and RTL8812CU and 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 Conducted Emissions at AC Power Line (150kHz-30MHz)

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

Frequency of emission(MHz)	Conducted limit(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: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: b:Module MT7668 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.

c:Module MT7668 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.

h:Module RTL8812CU 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.

i:Module RTL8812CU 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.

The worst case for final test:

b:Module MT7668 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.

h:Module RTL8812CU 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.

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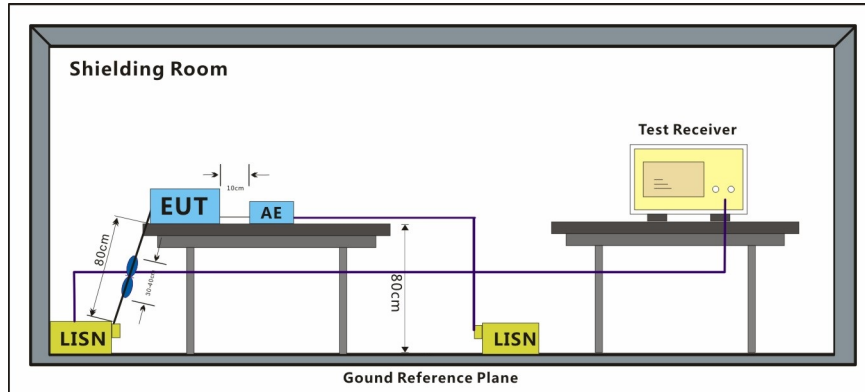
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802.11ac(VHT80). Only the data of worst case is recorded in the report.

### 7.1.2 Test Setup Diagram



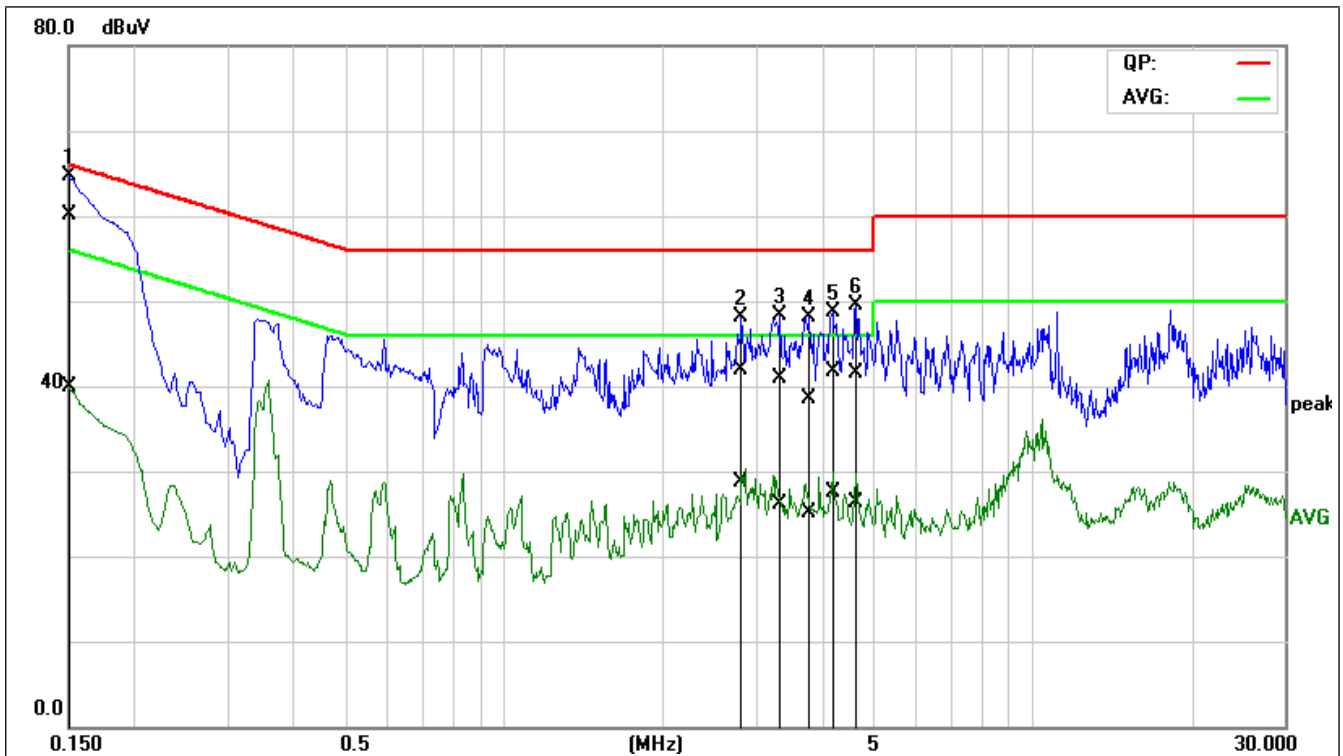
### 7.1.3 Measurement Procedure and Data

- 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



Mode:b; Line:Live Line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	40.52	20.31	19.50	60.02	39.81	66.00	56.00	-5.98	-16.19	Pass
2	2.8284	22.21	9.06	19.70	41.91	28.76	56.00	46.00	-14.09	-17.24	Pass
3	3.3365	21.11	6.38	19.73	40.84	26.11	56.00	46.00	-15.16	-19.89	Pass
4	3.8041	18.72	5.36	19.76	38.48	25.12	56.00	46.00	-17.52	-20.88	Pass
5	4.1812	21.93	7.79	19.77	41.70	27.56	56.00	46.00	-14.30	-18.44	Pass
6	4.6371	21.78	6.47	19.80	41.58	26.27	56.00	46.00	-14.42	-19.73	Pass



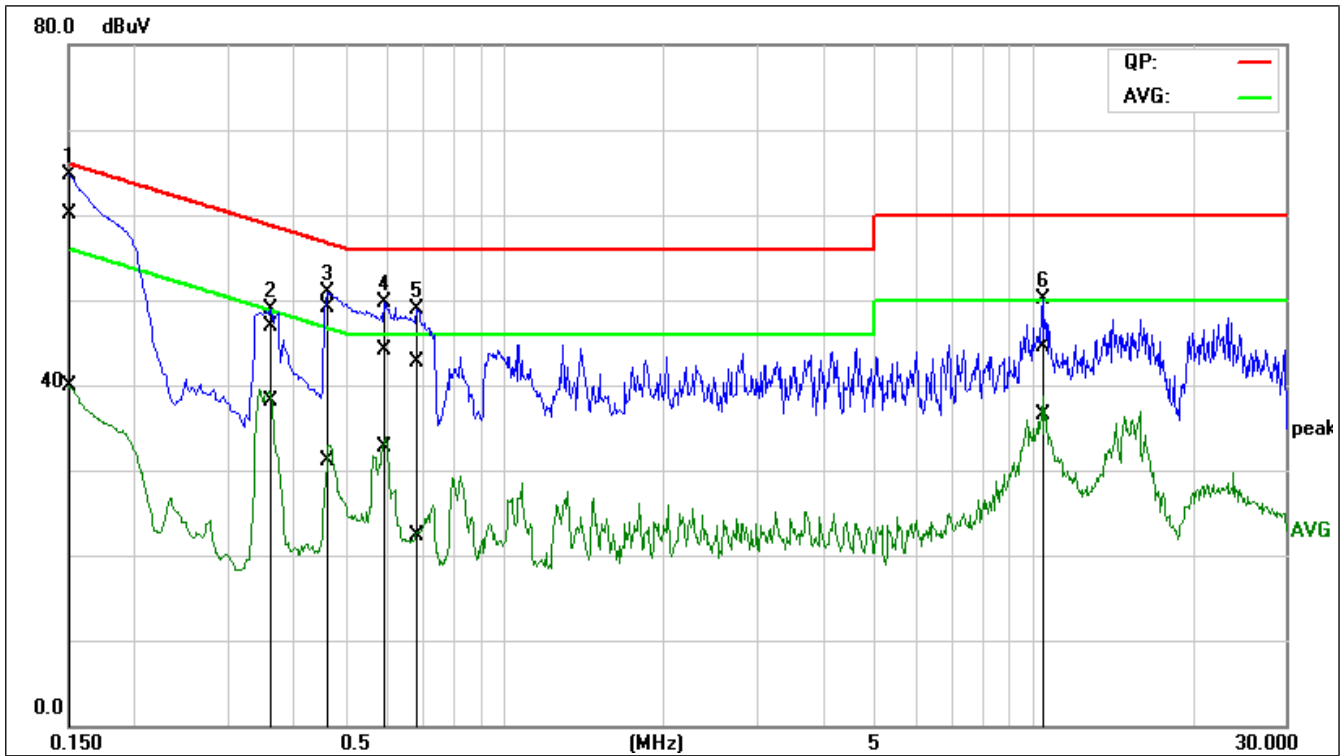
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Mode:b; Line:Neutral Line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	40.60	20.37	19.48	60.08	39.85	66.00	56.00	-5.92	-16.15	Pass
2	0.3615	27.43	18.59	19.52	46.95	38.11	58.69	48.69	-11.74	-10.58	Pass
3	0.4616	29.55	11.47	19.55	49.10	31.02	56.66	46.66	-7.56	-15.64	Pass
4	0.5980	24.58	13.07	19.56	44.14	32.63	56.00	46.00	-11.86	-13.37	Pass
5	0.6814	23.22	2.79	19.56	42.78	22.35	56.00	46.00	-13.22	-23.65	Pass
6	10.4434	24.48	16.43	20.05	44.53	36.48	60.00	50.00	-15.47	-13.52	Pass



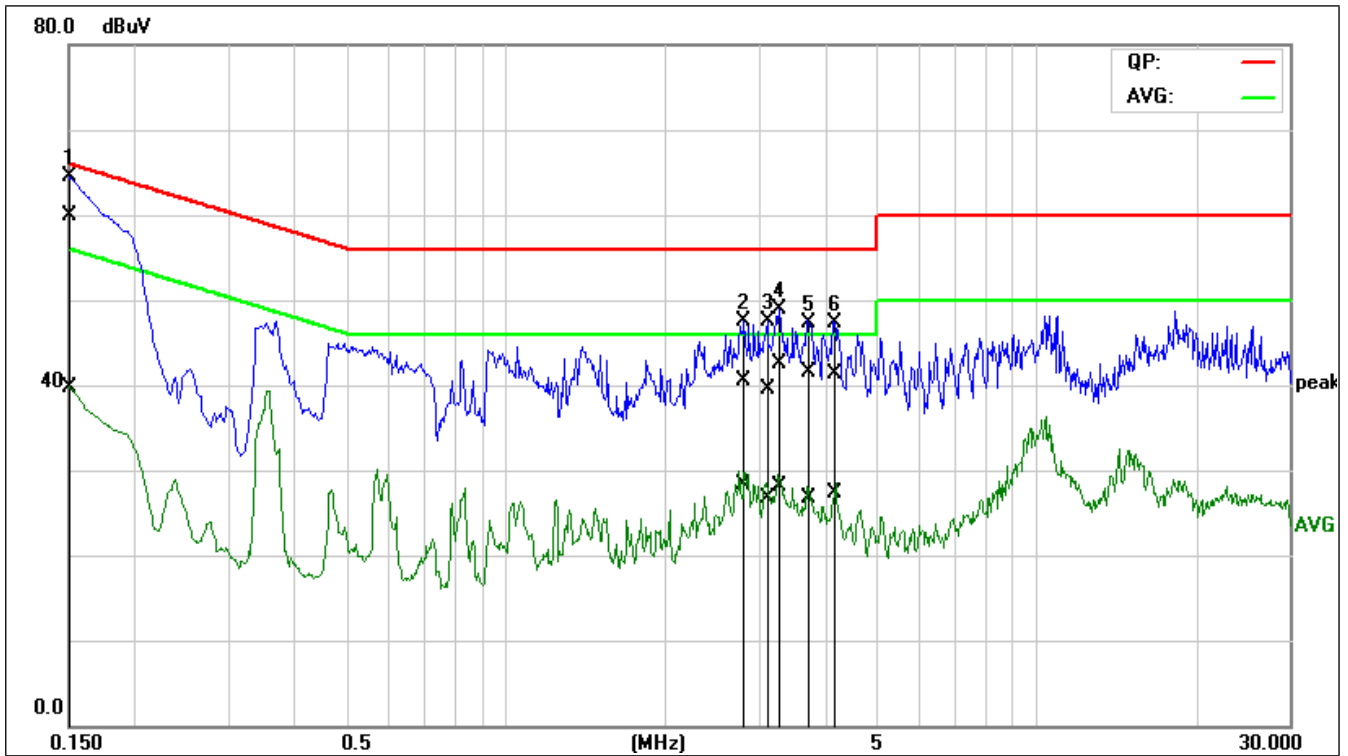
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Mode:h; Line:Live Line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	40.50	20.28	19.50	60.00	39.78	66.00	56.00	-6.00	-16.22	Pass
2	2.8358	20.89	8.56	19.70	40.59	28.26	56.00	46.00	-15.41	-17.74	Pass
3	3.0837	19.80	7.00	19.71	39.51	26.71	56.00	46.00	-16.49	-19.29	Pass
4	3.2766	22.86	8.35	19.73	42.59	28.08	56.00	46.00	-13.41	-17.92	Pass
5	3.7391	21.74	6.90	19.76	41.50	26.66	56.00	46.00	-14.50	-19.34	Pass
6	4.1918	21.52	7.47	19.77	41.29	27.24	56.00	46.00	-14.71	-18.76	Pass



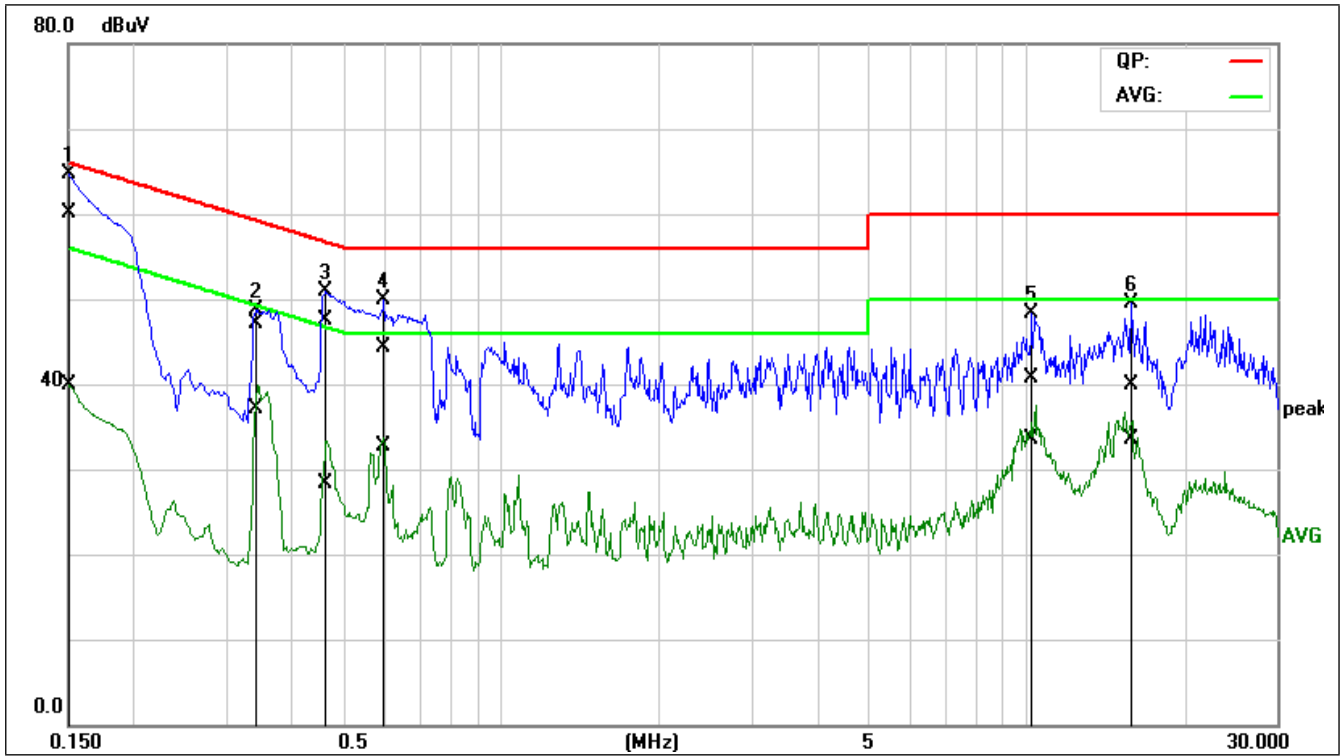
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Mode:h; Line:Neutral Line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	40.65	20.39	19.48	60.13	39.87	66.00	56.00	-5.87	-16.13	Pass
2	0.3449	27.50	17.51	19.51	47.01	37.02	59.08	49.08	-12.07	-12.06	Pass
3	0.4661	27.97	8.73	19.55	47.52	28.28	56.58	46.58	-9.06	-18.30	Pass
4	0.5976	24.80	13.06	19.56	44.36	32.62	56.00	46.00	-11.64	-13.38	Pass
5	10.2768	20.71	13.46	20.05	40.76	33.51	60.00	50.00	-19.24	-16.49	Pass
6	15.8881	19.61	13.31	20.23	39.84	33.54	60.00	50.00	-20.16	-16.46	Pass



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**7.2 99% Bandwidth**

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

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

Operating Environment:

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

Pretest these modes to find the worst case: b:Module MT7668 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.

c:Module MT7668 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.

h:Module RTL8812CU 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.

i:Module RTL8812CU 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.

The worst case for final test:

b:Module MT7668 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.

c:Module MT7668 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

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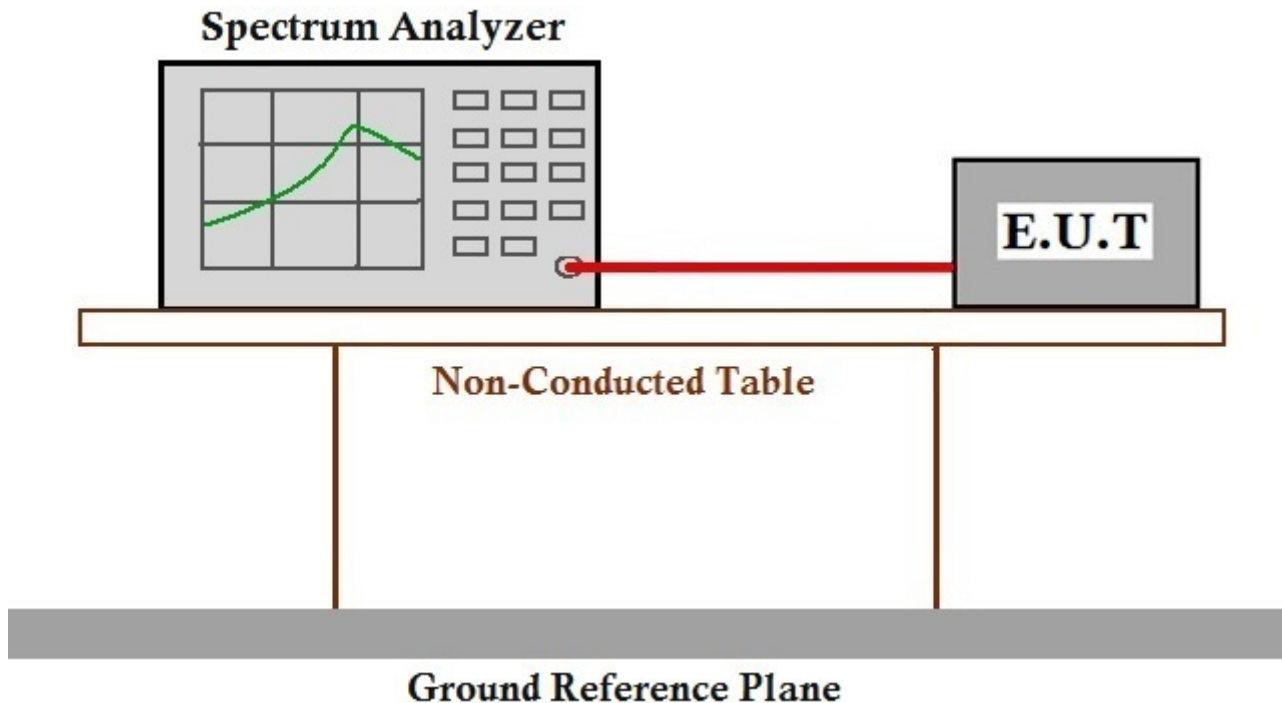
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worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded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

h:Module RTL8812CU 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.

i:Module RTL8812CU 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.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix B for-KSCR220100002802AT-FCC-5G-MT7668  
Appendix B for-KSCR220100002802AT-FCC-5G-RTL8812cu



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### 7.3 26dB Emission bandwidth

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

#### 7.3.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case: b:Module MT7668 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.

h:Module RTL8812CU 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.

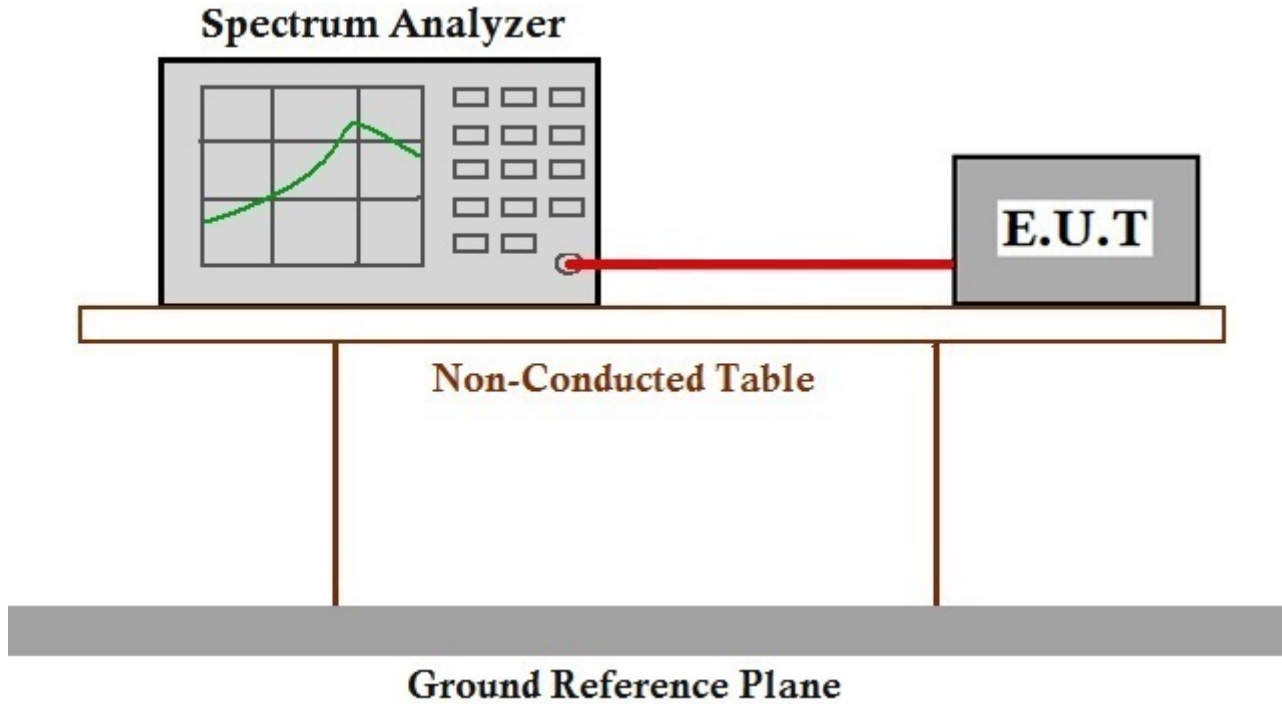
The worst case for final test:

b:Module MT7668 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.

h:Module RTL8812CU 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.



7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix B for-KSCR220100002802AT-FCC-5G-MT7668  
Appendix B for-KSCR220100002802AT-FCC-5G-RTL8812cu



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**7.4 Minimum 6 dB bandwidth (5.725-5.85 GHz band )**

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



**7.4.1 E.U.T. Operation**

Operating Environment:

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

Pretest these modes to find the worst case: c:Module MT7668 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.

i:Module RTL8812CU 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.

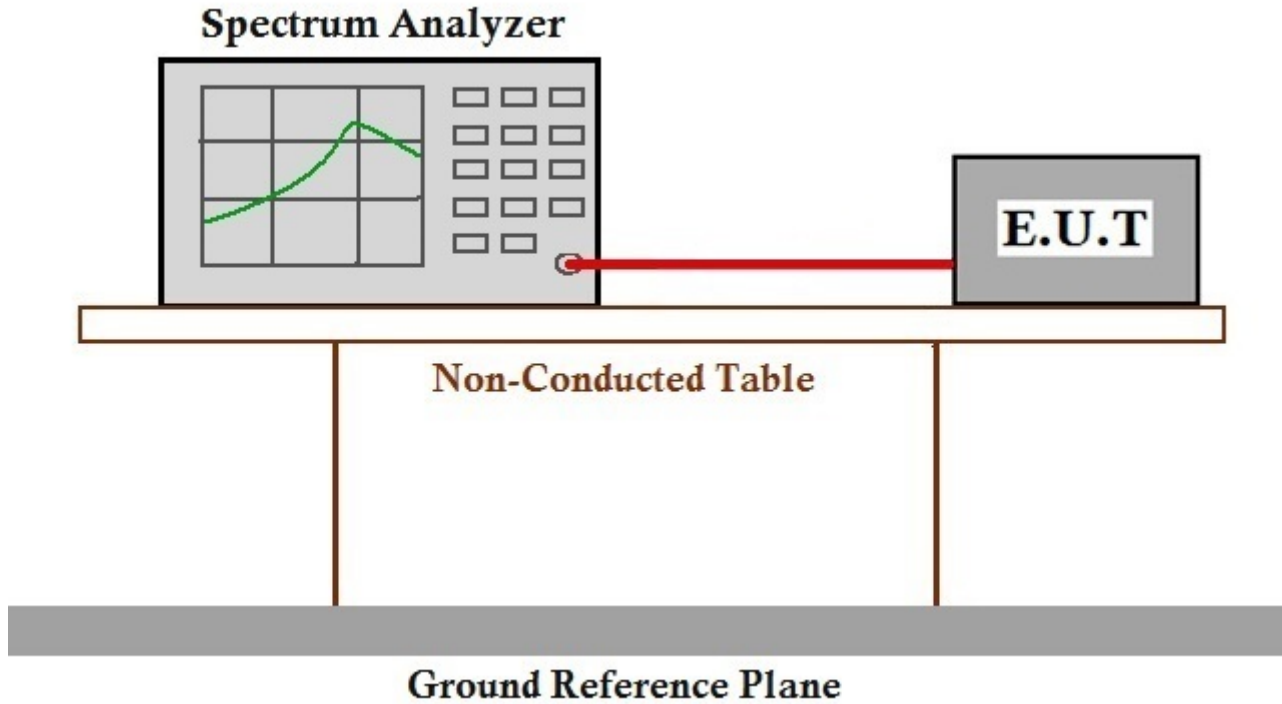
The worst case for final test: c:Module MT7668 TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of 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.

i:Module RTL8812CU 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.



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7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix B for-KSCR220100002802AT-FCC-5G-MT7668  
Appendix B for-KSCR220100002802AT-FCC-5G-RTL8812cu



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### 7.5 Maximum Conducted output power

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

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(23.98dBm) for client device
5250-5350	≤250mW(23.98dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(23.98dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	<p>1. *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.</p> <p>2. The EUT 802.11n/ac mode supports 2 * 2 MIMO transmission. The gain for Module RTL8812CU of each antenna is 3.06dBi and 3.60dBi, and the directional antenna gain is 6.35dBi. Therefore, the power limit should be reduced from the part exceeding 6, 5150-5250MHz: 23.63dBm &amp; 5725-5850MHz: 29.65dBm.</p> <p>3. For IC 5150MHz to 5250MHz limit is EIRP ≤200mW(23.01dBm) The EUT 802.11n/ac mode supports 2 * 2 MIMO transmission. The gain for Module RTL8812CU of each antenna is 3.06dBi and 3.60dBi, and the directional antenna gain is 6.35dBi. Therefore, the power limit should be reduced from the part exceeding 6, 5725-5850MHz: 29.65dBm.</p>



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### 7.5.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case: b:Module MT7668 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.

c:Module MT7668 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.

h:Module RTL8812CU 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.

i:Module RTL8812CU 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.

The worst case for final test:

b:Module MT7668 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.

c:Module MT7668 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.

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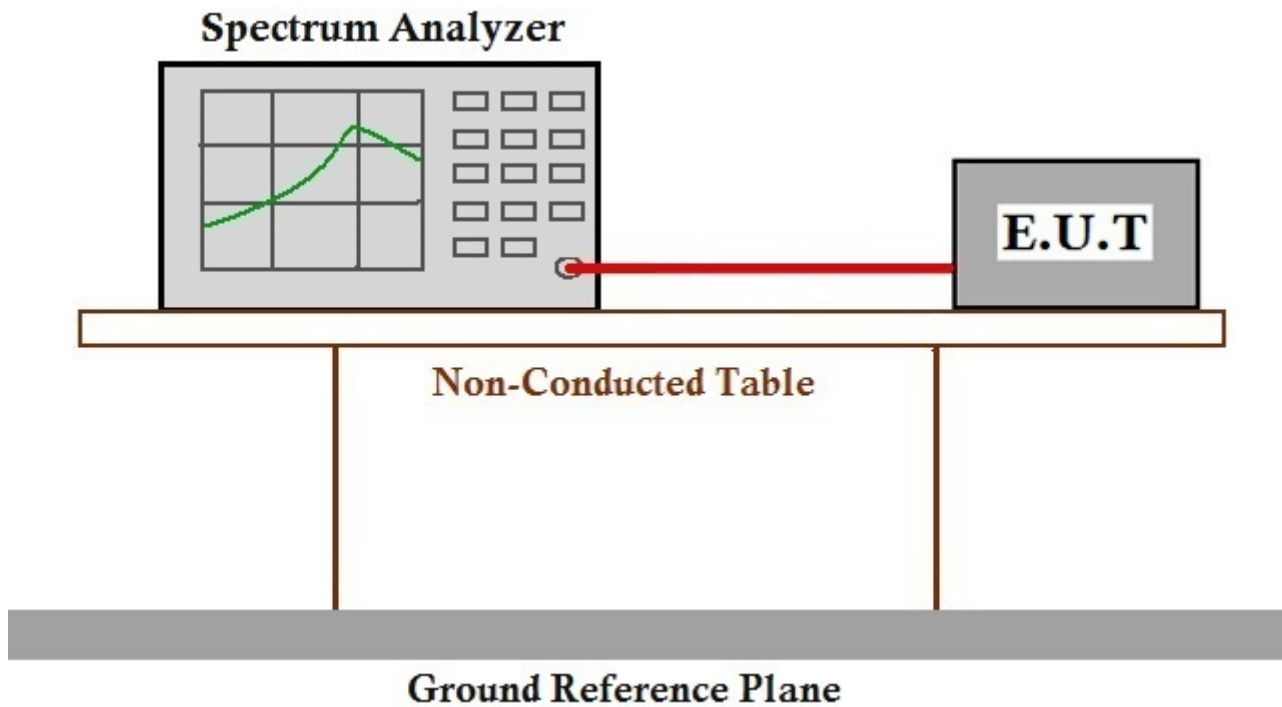
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EMC Laboratory

802.11ac(VHT80). Only the data of worst case is recorded in the report.

h:Module RTL8812CU 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.

i:Module RTL8812CU 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 B for-KSCR220100002802AT-FCC-5G-MT7668  
Appendix B for-KSCR220100002802AT-FCC-5G-RTL8812cu



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### 7.6 Peak Power spectrum density

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

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	<p>1. The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.</p> <p>2. The EUT 802.11n/ac mode supports 2 * 2 MIMO transmission. The gain for Module RTL8812CU of each antenna is 3.06dBi and 3.60dBi, and the directional antenna gain is 6.35dBi. Therefore, the power spectrum density limit should be reduced from the part exceeding 6, 5150-5725MHz: 10.65dBm/MHz; 5725-5850MHz: 29.65dBm/500kHz.</p> <p>3. For IC 5150MHz to 5250MHz limit is EIRP PSD ≤ 10dBm/MHz</p> <p>The EUT 802.11n/ac mode supports 2 * 2 MIMO transmission. The gain for Module RTL8812CU of each antenna is 3.06dBi and 3.60dBi, and the directional antenna gain is 6.35dBi. Therefore, the power spectrum density limit should be reduced from the part exceeding 6, 5725-5850MHz: 29.65dBm/500kHz.</p>



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### 7.6.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case: b:Module MT7668 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.

c:Module MT7668 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.

h:Module RTL8812CU 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.

i:Module RTL8812CU 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.

The worst case for final test:

b:Module MT7668 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.

c:Module MT7668 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.

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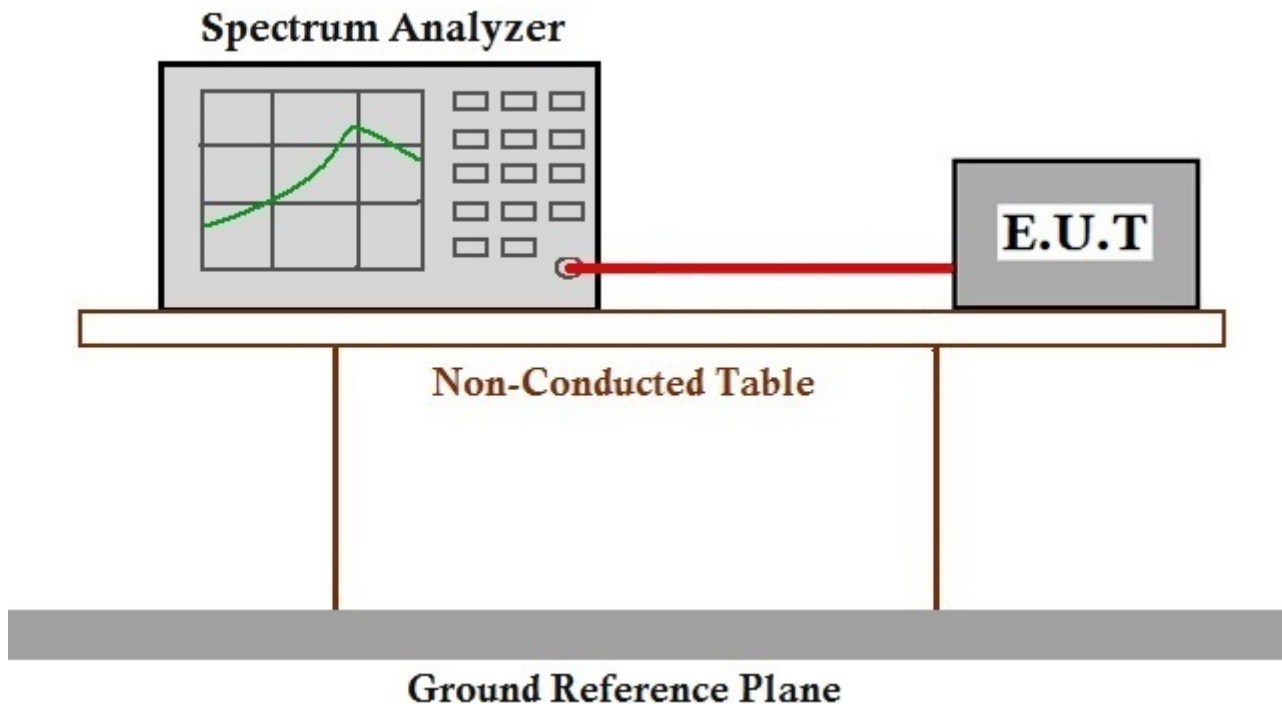
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802.11ac(VHT80). Only the data of worst case is recorded in the report.

h:Module RTL8812CU 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.

i:Module RTL8812CU 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



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix B for-KSCR220100002802AT-FCC-5G-MT7668  
Appendix B for-KSCR220100002802AT-FCC-5G-RTL8812cu



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## 7.7 Radiated Emissions

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



### 7.7.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case: b:Module MT7668 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.

c:Module MT7668 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.

h:Module RTL8812CU 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.

i:Module RTL8812CU 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.

The worst case for final test:

b:Module MT7668 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.

c:Module MT7668 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.

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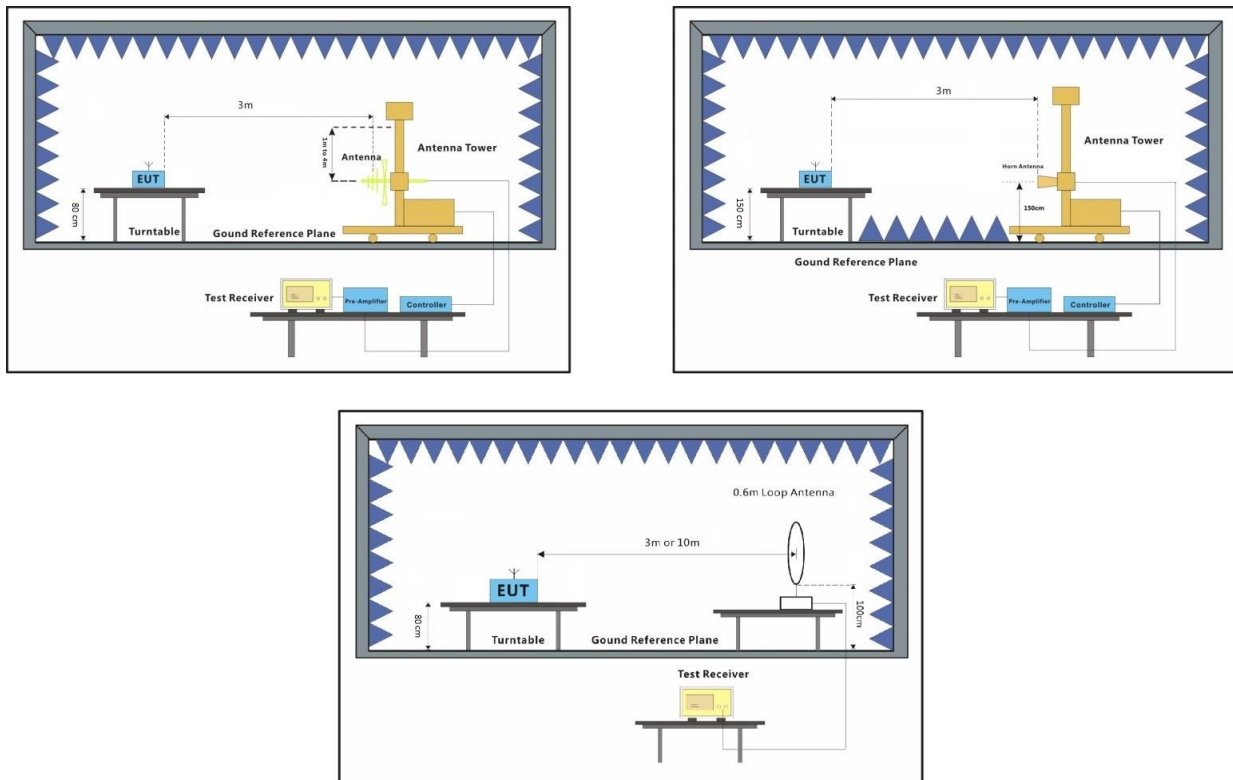
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802.11ac(VHT80). Only the data of worst case is recorded in the report.

h:Module RTL8812CU 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.

i:Module RTL8812CU 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:

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.
5. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a modulation and MIMO antenna operation for n/ac modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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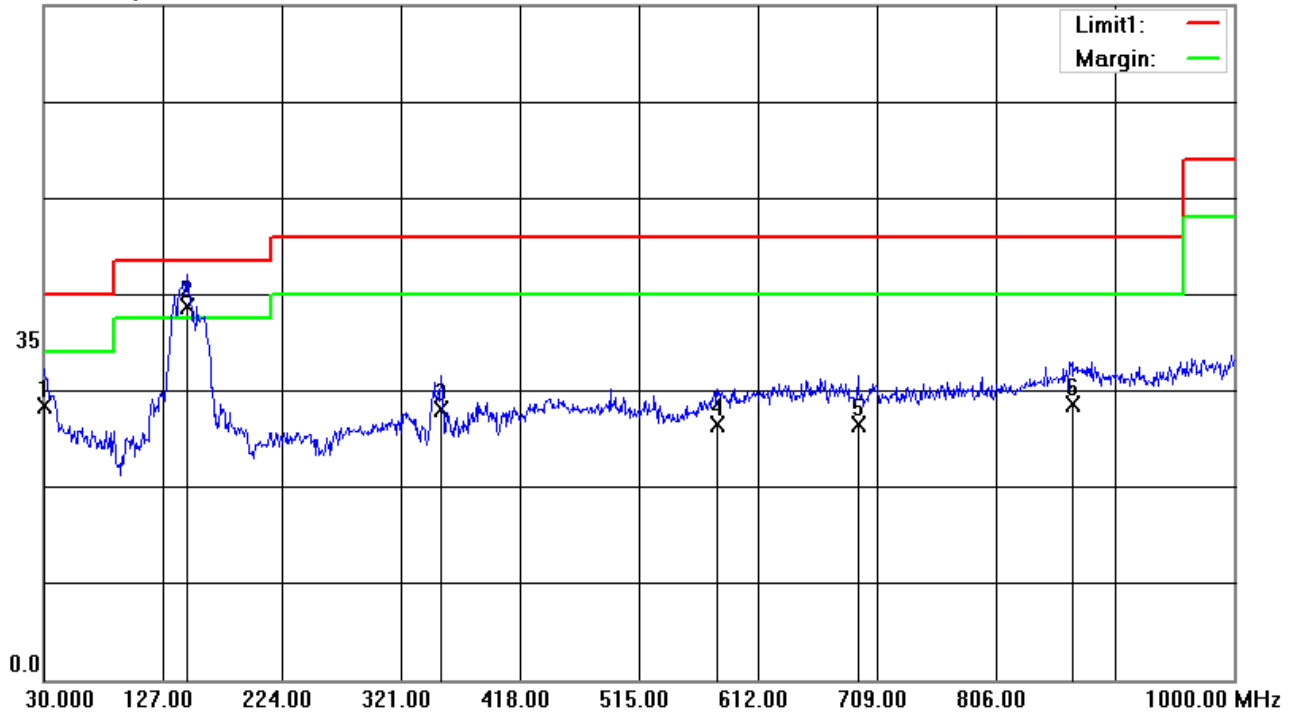
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30MHz-1GHz

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

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.0000	2.53	25.93	28.46	40.00	-11.54	QP
2	147.3700	18.73	20.05	38.78	43.50	-4.72	QP
3	353.9800	5.64	22.48	28.12	46.00	-17.88	QP
4	579.0200	0.33	26.22	26.55	46.00	-19.45	QP
5	693.4800	-0.96	27.45	26.49	46.00	-19.51	QP
6	868.0800	0.38	28.29	28.67	46.00	-17.33	QP



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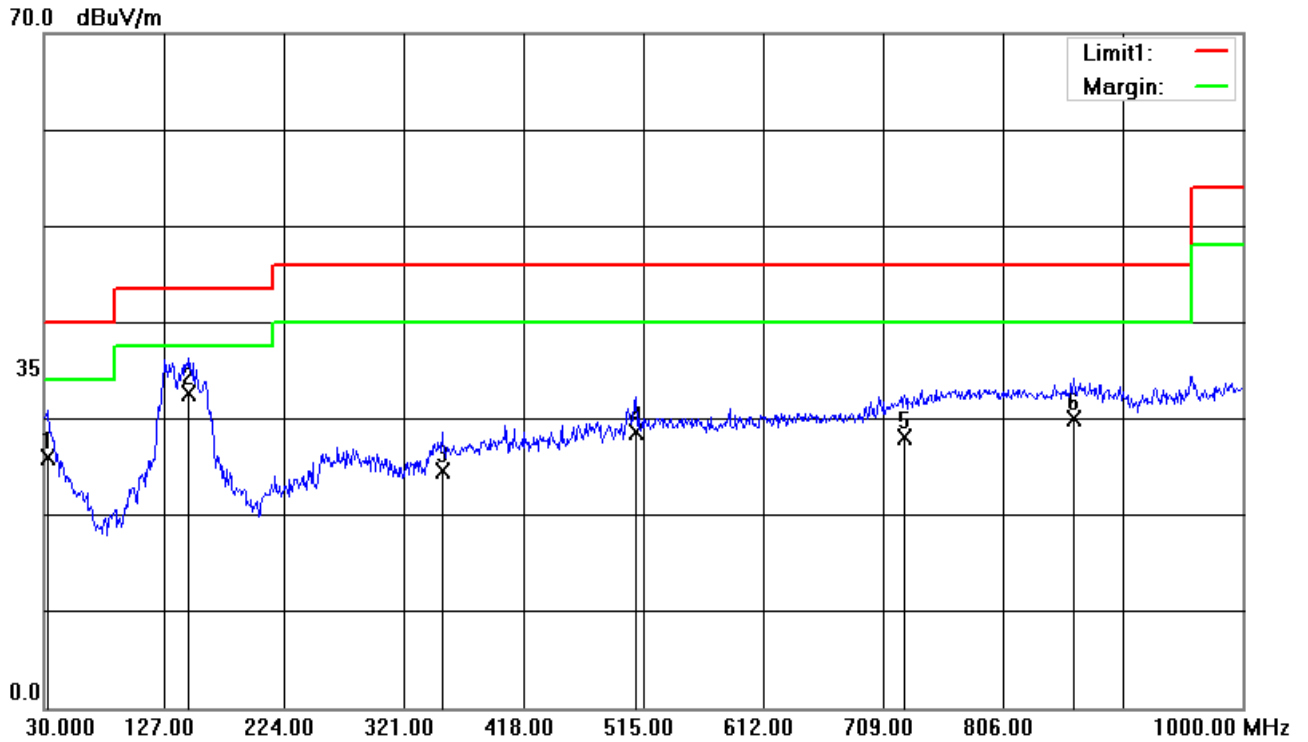
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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

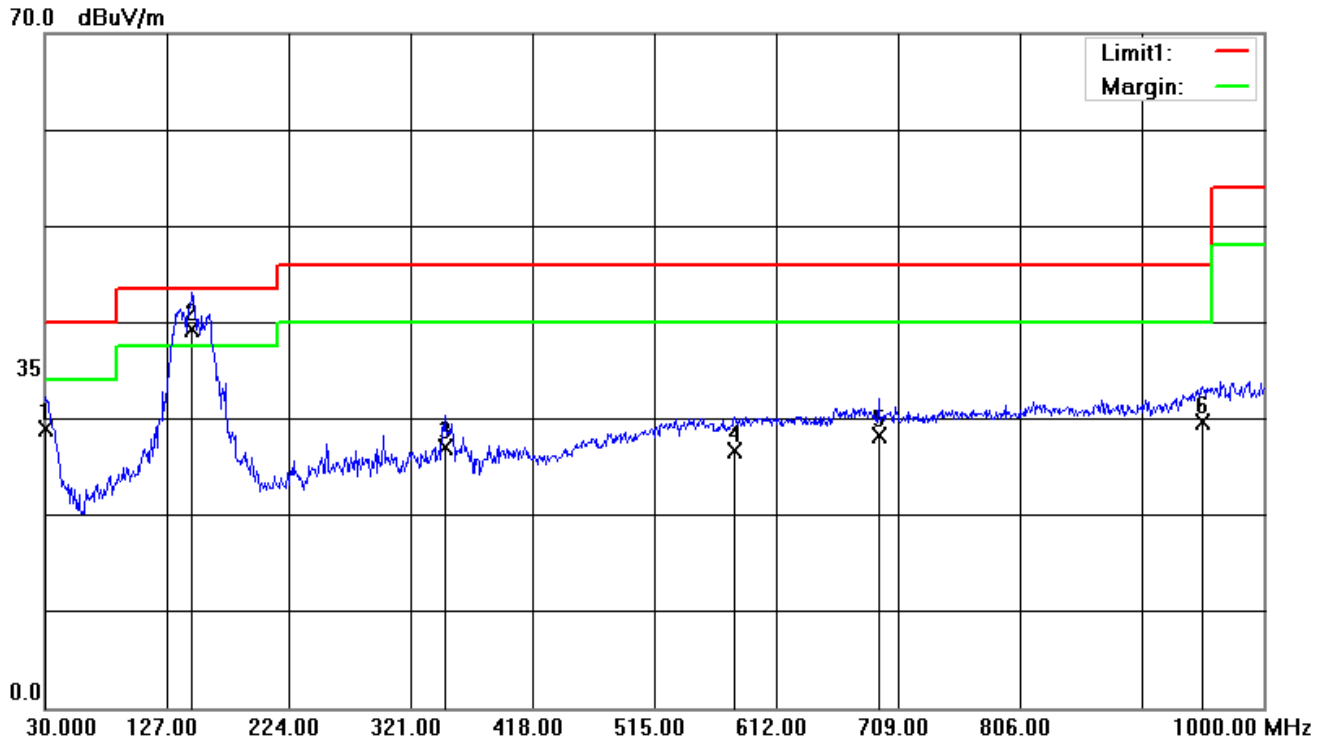


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.9100	1.72	24.27	25.99	40.00	-14.01	QP
2	147.3700	12.51	20.05	32.56	43.50	-10.94	QP
3	352.0400	2.20	22.43	24.63	46.00	-21.37	QP
4	509.1800	3.19	25.35	28.54	46.00	-17.46	QP
5	726.4600	0.66	27.49	28.15	46.00	-17.85	QP
6	863.2300	1.83	28.24	30.07	46.00	-15.93	QP



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

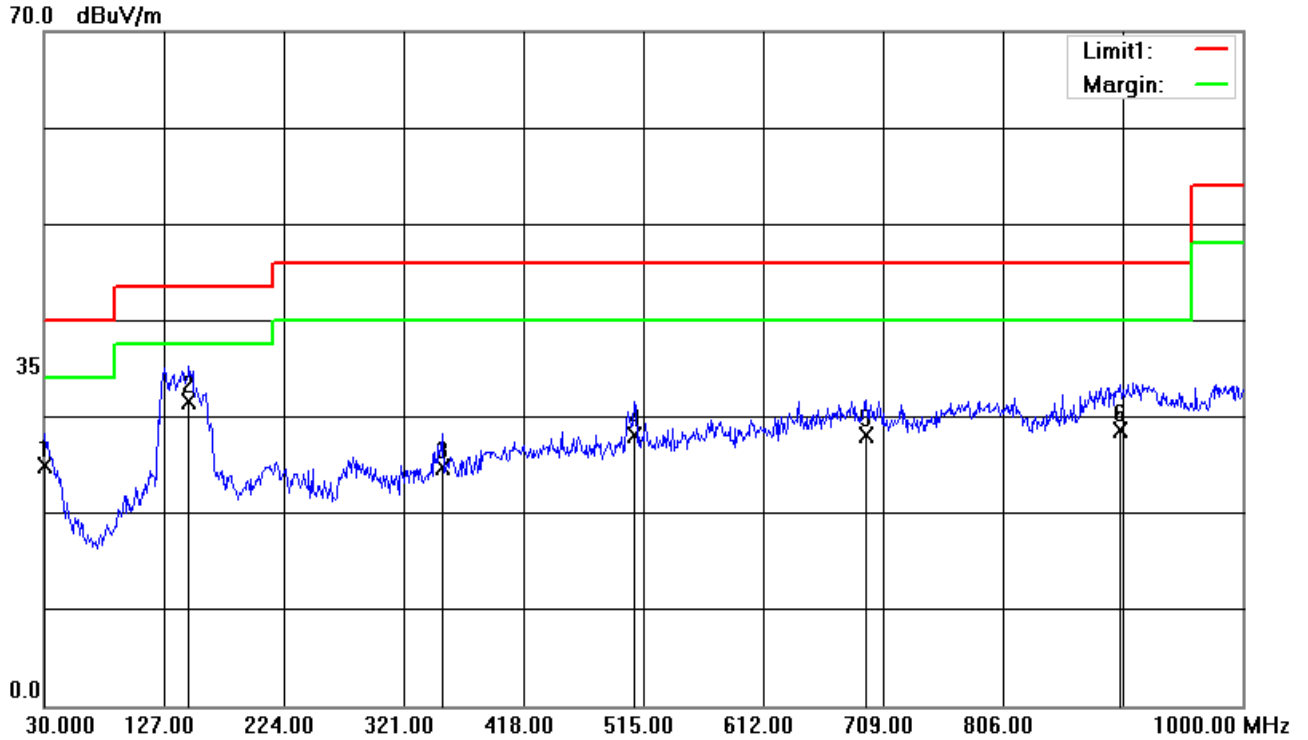


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.9700	3.51	25.38	28.89	40.00	-11.11	QP
2	147.3700	19.20	20.05	39.25	43.50	-4.25	QP
3	348.1600	4.67	22.32	26.99	46.00	-19.01	QP
4	579.0200	0.41	26.22	26.63	46.00	-19.37	QP
5	693.4800	0.77	27.45	28.22	46.00	-17.78	QP
6	951.5000	0.43	29.30	29.73	46.00	-16.27	QP



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



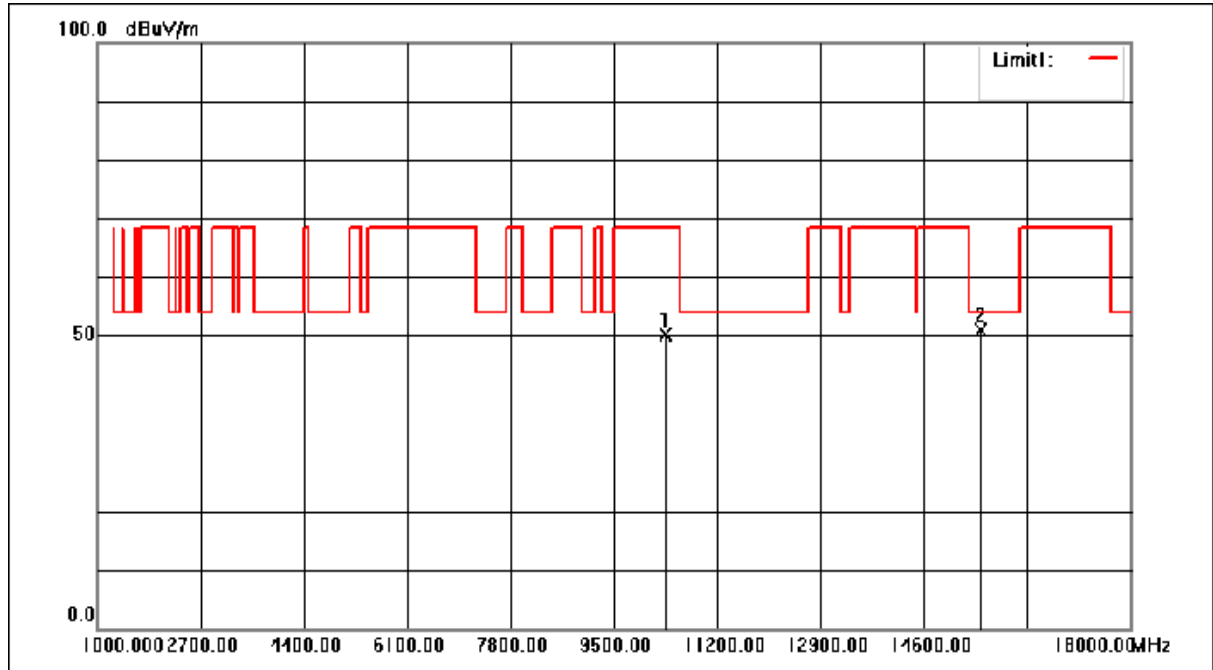
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.0000	-1.01	25.93	24.92	40.00	-15.08	QP
2	147.3700	11.47	20.05	31.52	43.50	-11.98	QP
3	352.0400	2.35	22.43	24.78	46.00	-21.22	QP
4	507.2400	2.76	25.33	28.09	46.00	-17.91	QP
5	695.4200	0.70	27.46	28.16	46.00	-17.84	QP
6	901.0600	-0.01	28.68	28.67	46.00	-17.33	QP



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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	50.09	0.16	50.25	68.30	-18.05	peak
2	15540.000	45.27	5.73	51.00	54.00	-3.00	peak



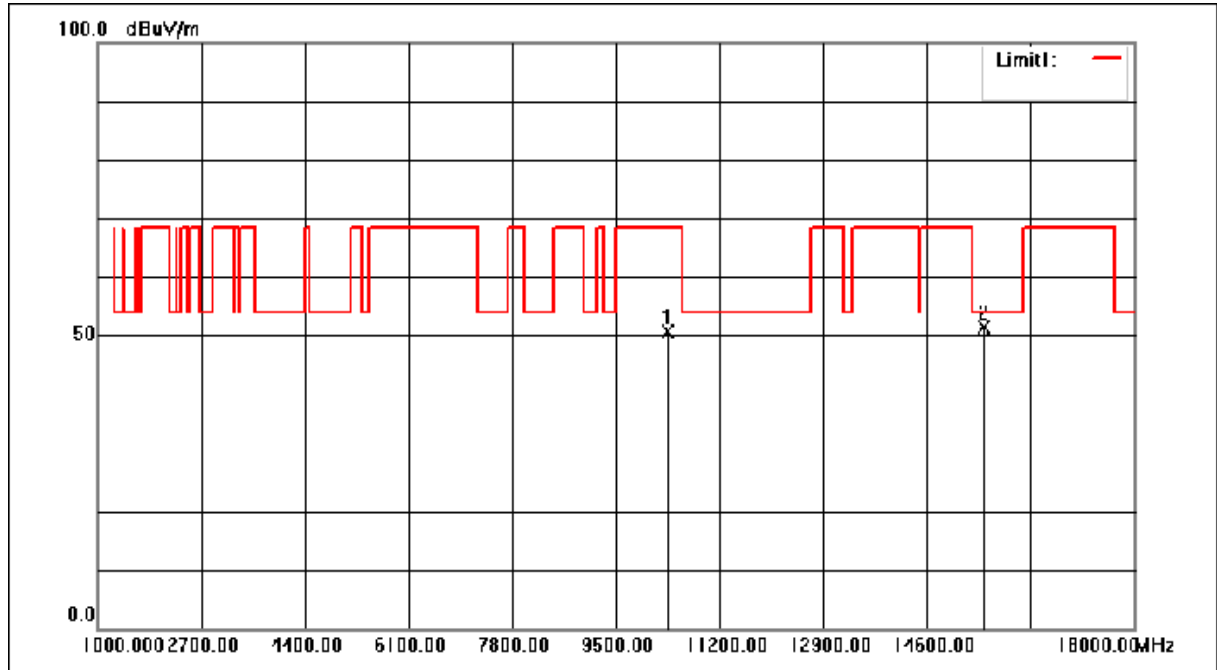
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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	50.55	0.16	50.71	68.30	-17.59	peak
2	15540.000	45.59	5.73	51.32	54.00	-2.68	peak



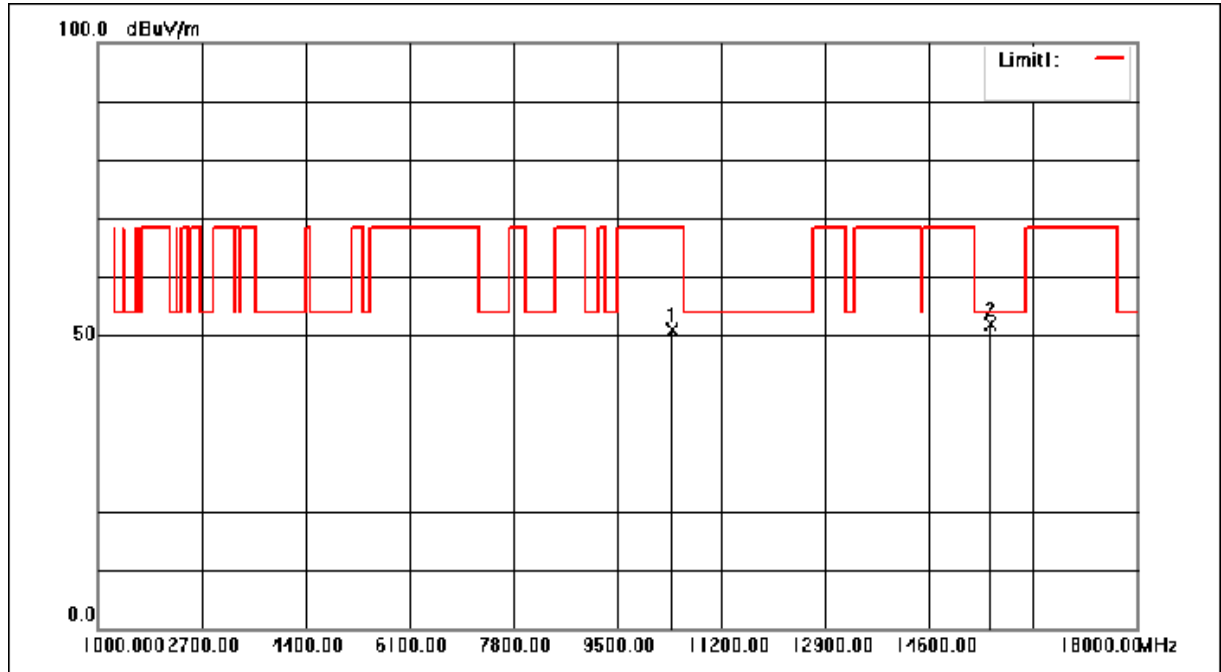
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Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.54	0.24	50.78	68.30	-17.52	peak
2	15600.000	46.05	5.85	51.90	54.00	-2.10	peak



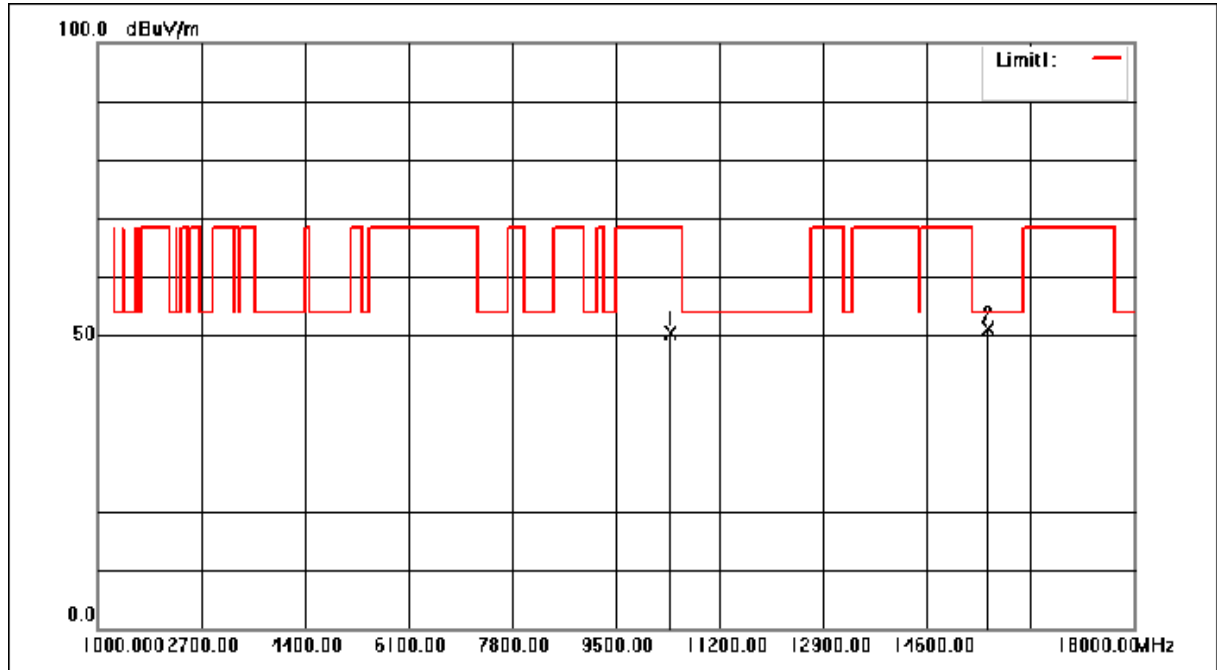
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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle

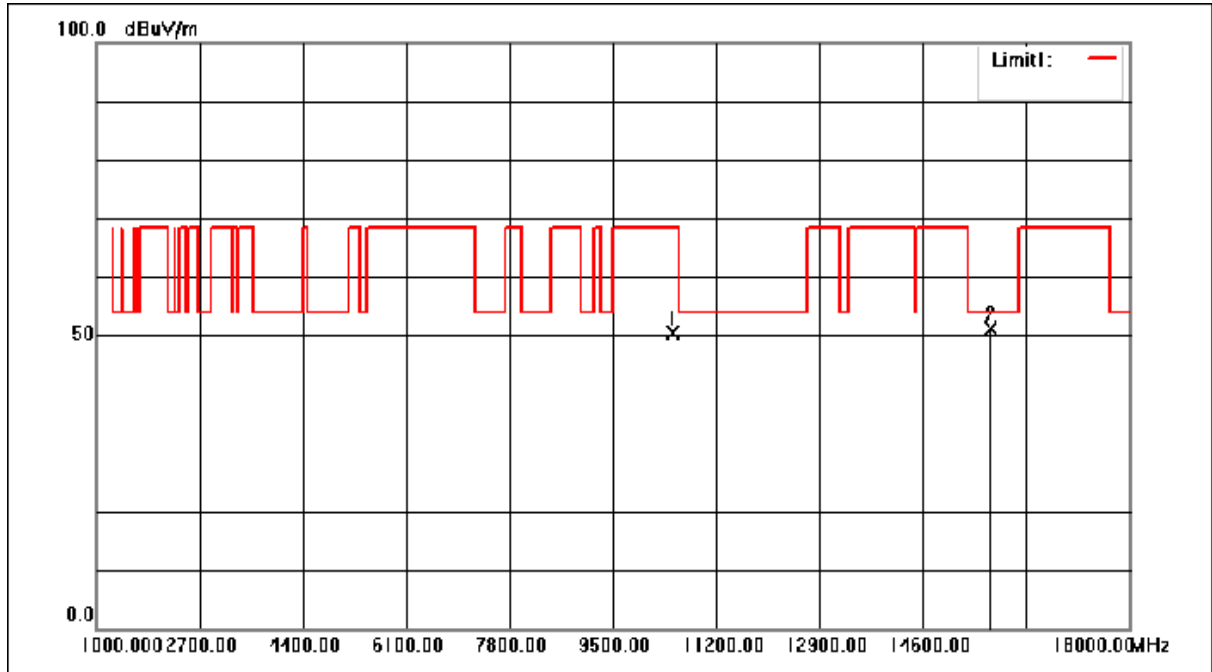


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.22	0.24	50.46	68.30	-17.84	peak
2	15600.000	45.26	5.85	51.11	54.00	-2.89	peak



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



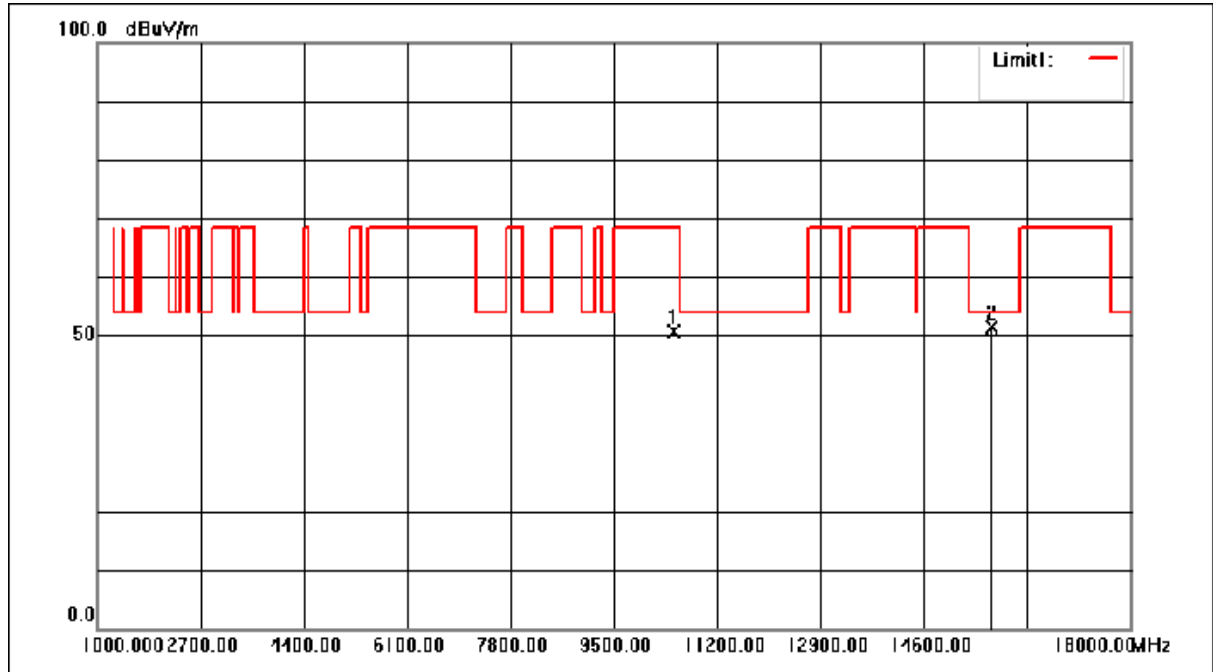
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.99	0.40	50.39	68.30	-17.91	peak
2	15720.000	44.98	6.10	51.08	54.00	-2.92	peak



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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	50.33	0.40	50.73	68.30	-17.57	peak
2	15720.000	45.32	6.10	51.42	54.00	-2.58	peak



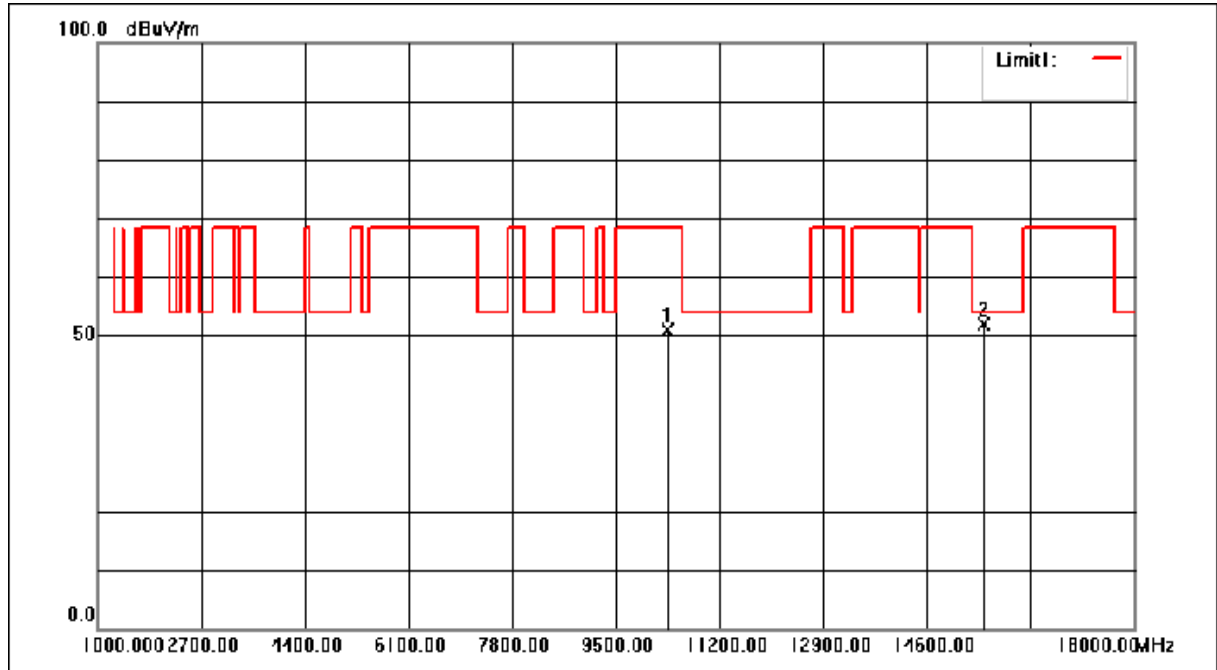
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

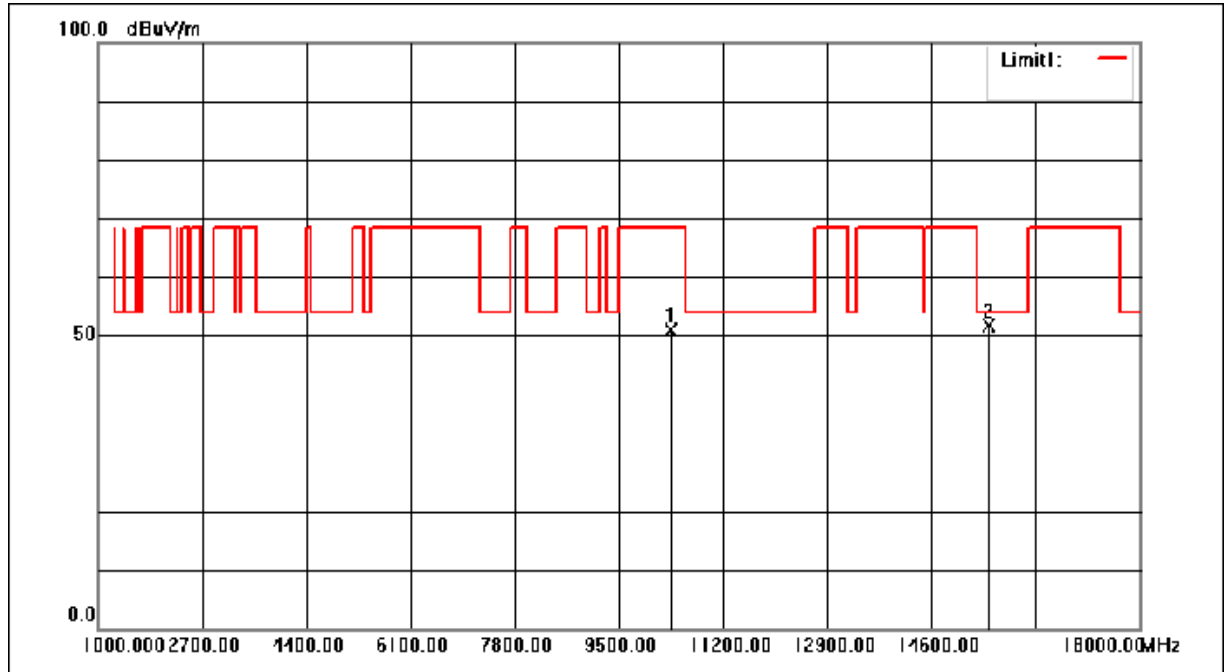


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.67	0.16	50.83	68.30	-17.47	peak
2	15540.000	46.20	5.73	51.93	54.00	-2.07	peak



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

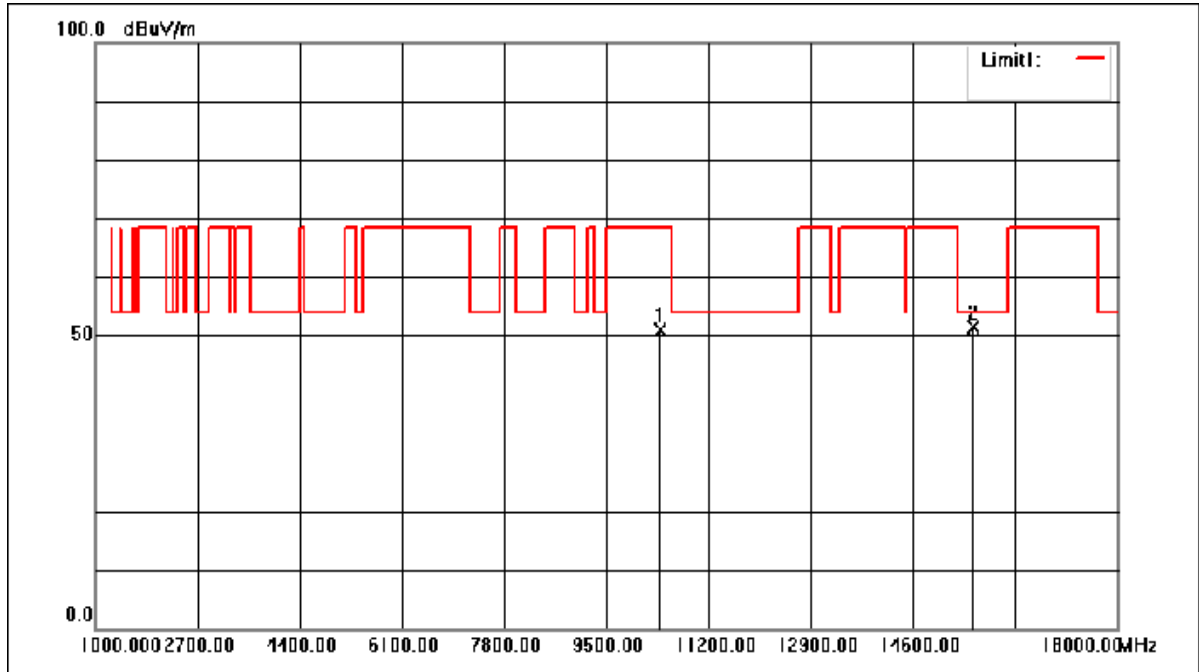


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.72	0.16	50.88	68.30	-17.42	peak
2	15540.000	45.79	5.73	51.52	54.00	-2.48	peak



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

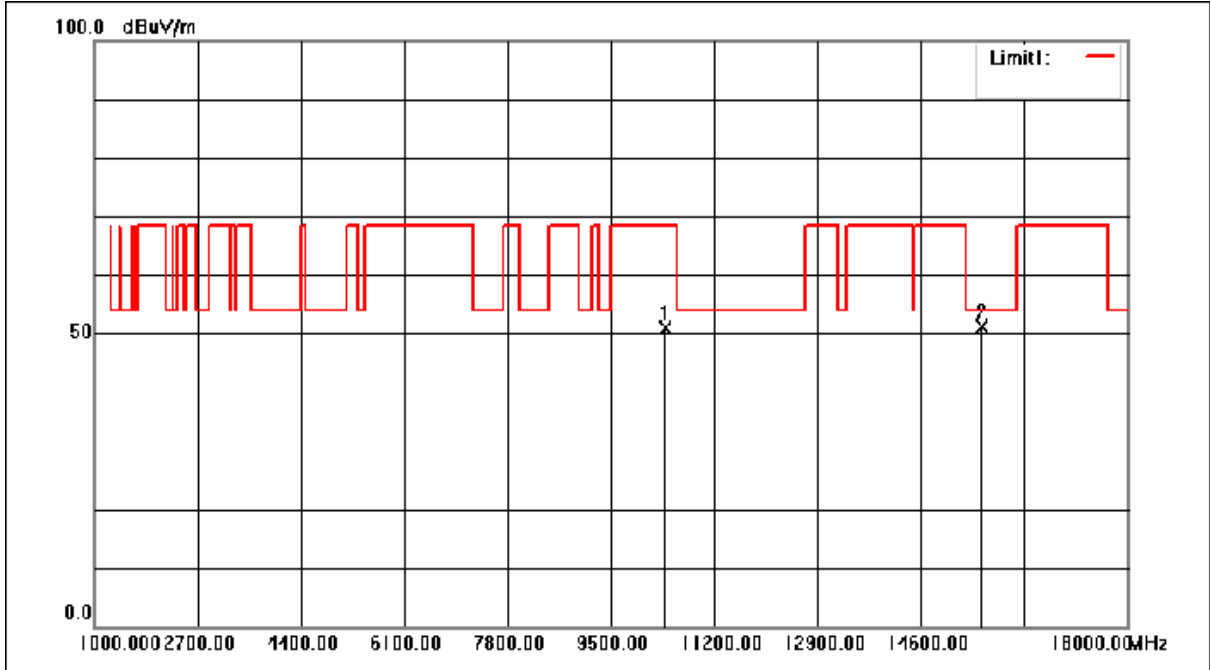


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.63	0.24	50.87	68.30	-17.43	peak
2	15600.000	45.60	5.85	51.45	54.00	-2.55	peak



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Mode:b; 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	10400.000	50.71	0.24	50.95	68.30	-17.35	peak
2	15600.000	45.29	5.85	51.14	54.00	-2.86	peak



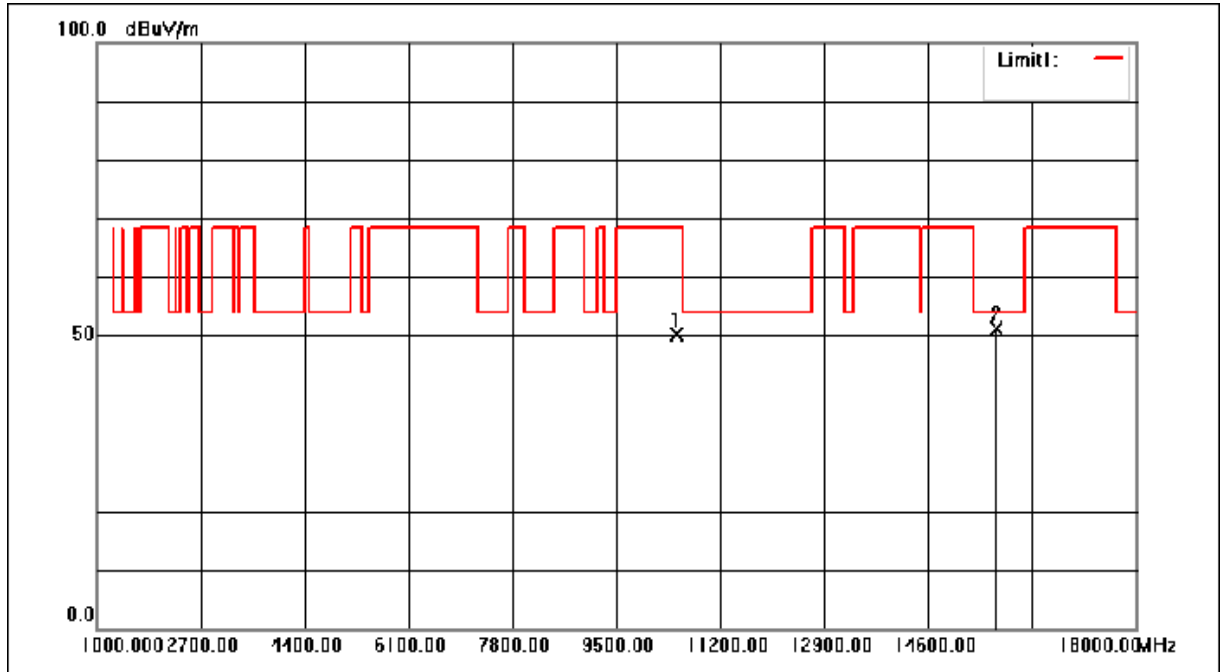
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

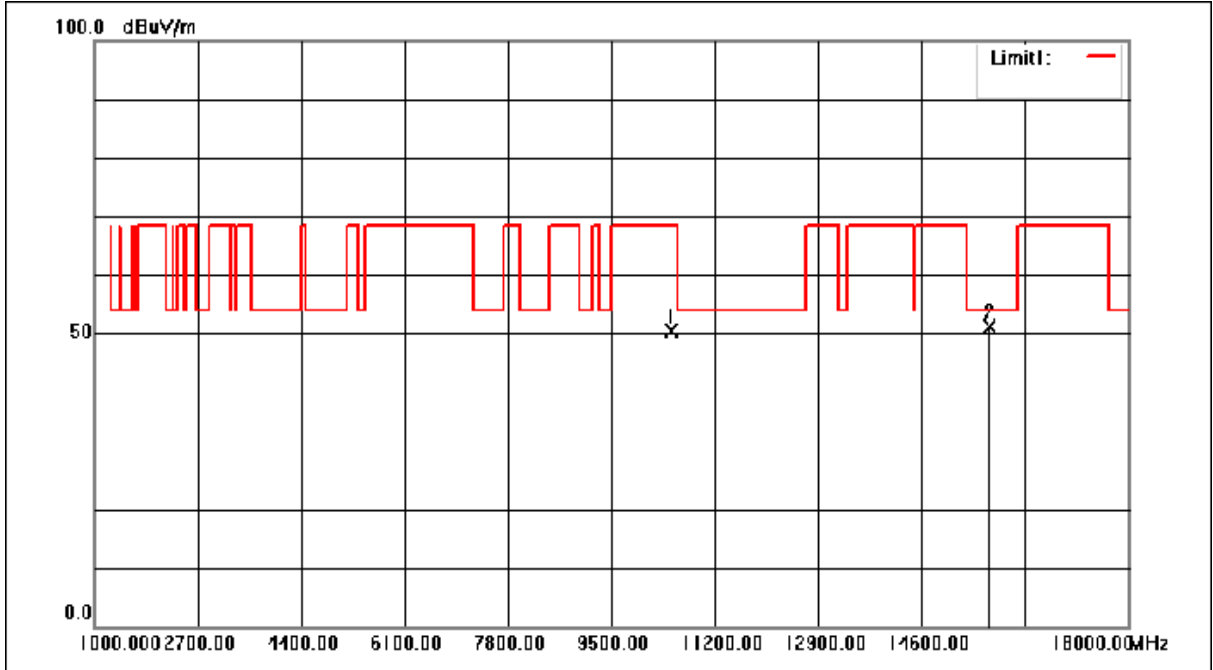


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.74	0.40	50.14	68.30	-18.16	peak
2	15720.000	45.00	6.10	51.10	54.00	-2.90	peak



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Mode:b; 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	49.98	0.40	50.38	68.30	-17.92	peak
2	15720.000	45.13	6.10	51.23	54.00	-2.77	peak

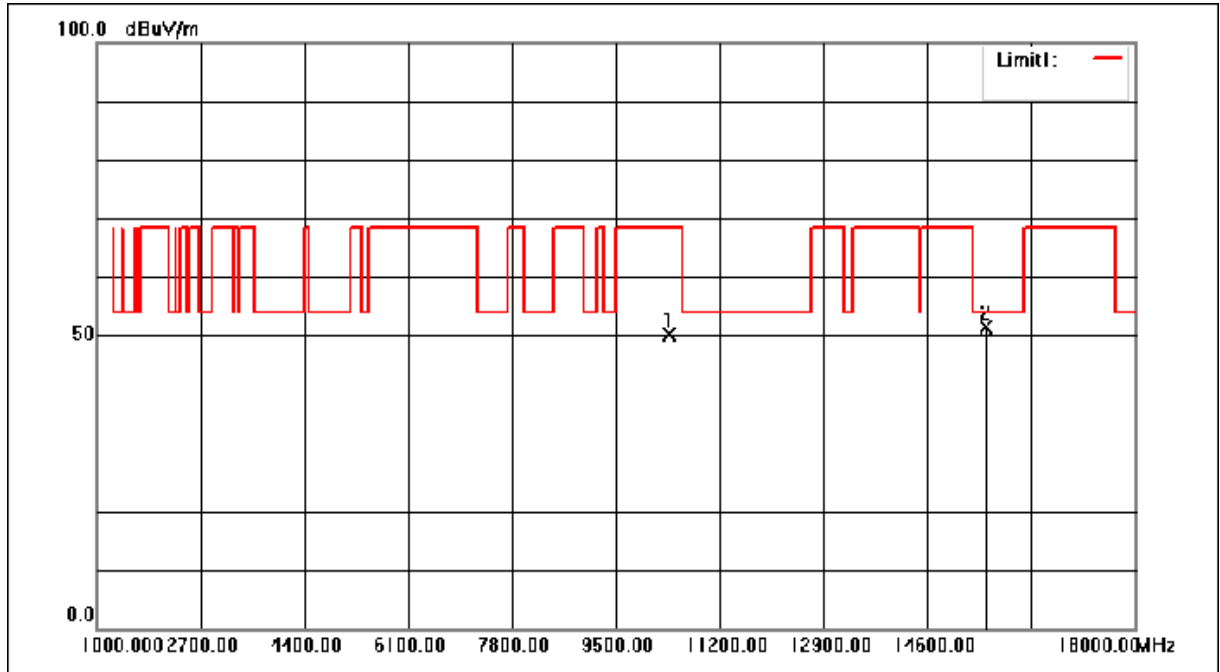


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	49.92	0.20	50.12	68.30	-18.18	peak
2	15570.000	45.56	5.79	51.35	54.00	-2.65	peak



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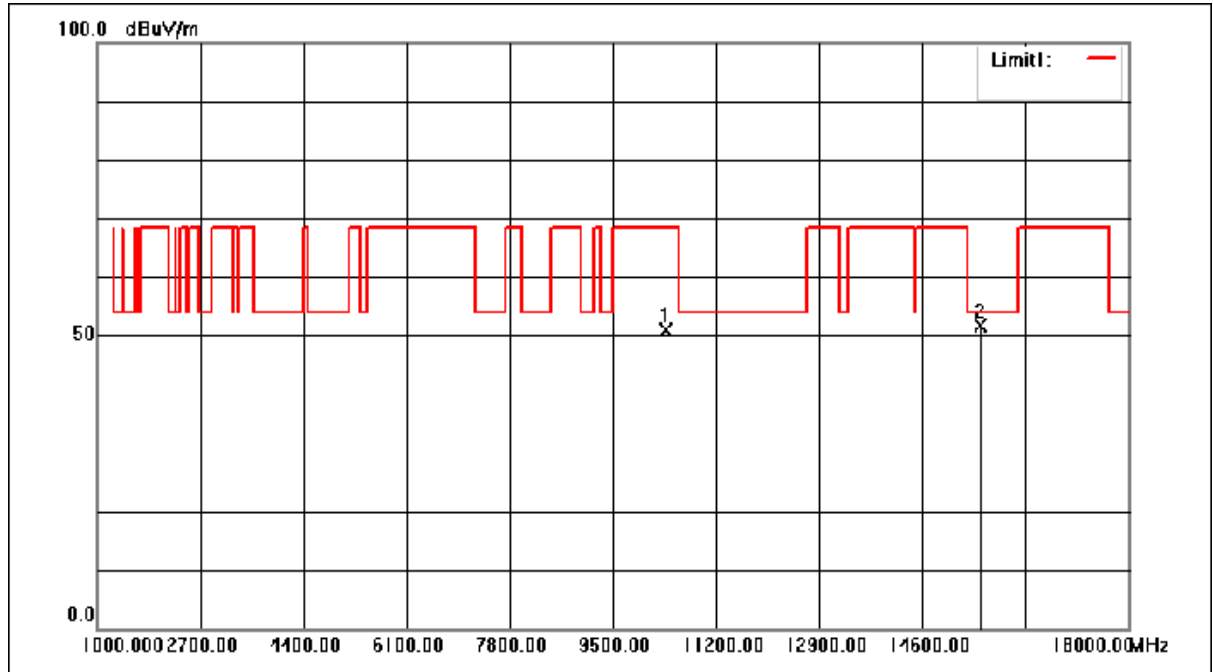
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.65	0.20	50.85	68.30	-17.45	peak
2	15570.000	45.90	5.79	51.69	54.00	-2.31	peak

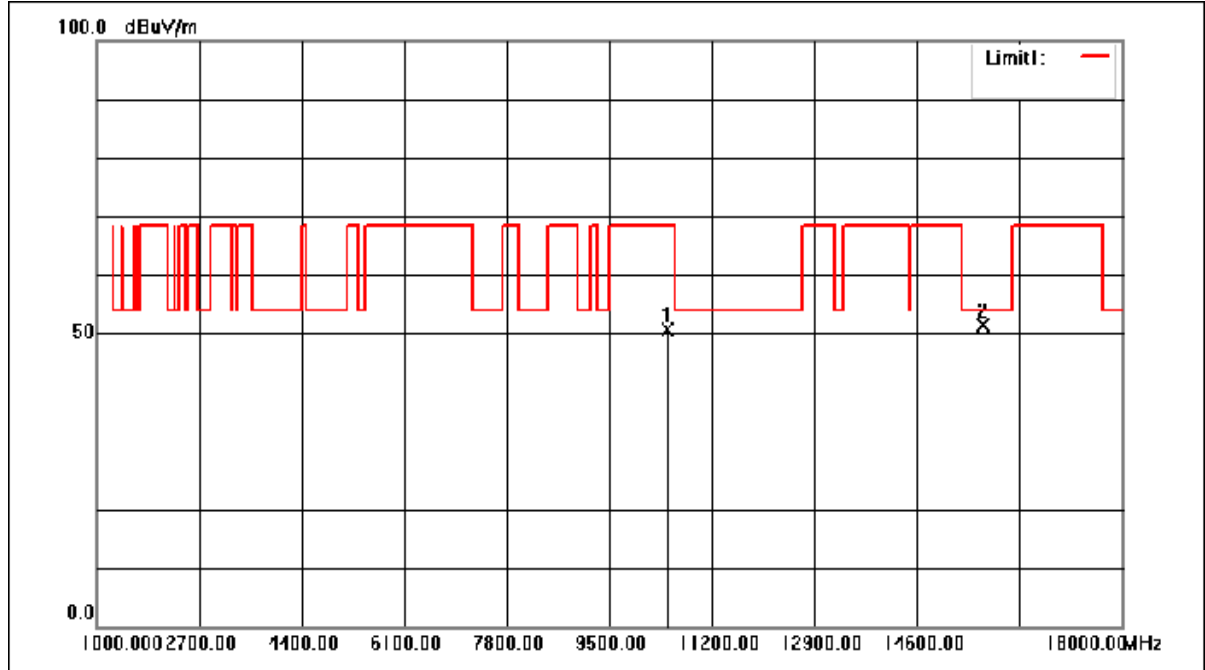


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

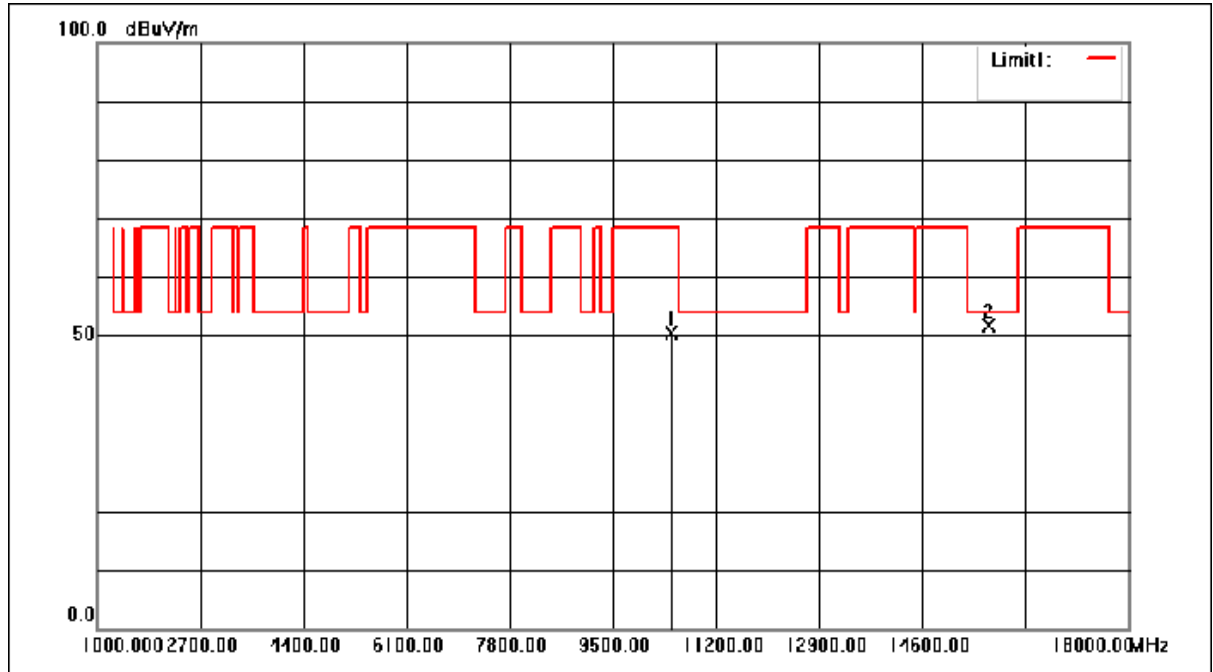


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	50.37	0.36	50.73	68.30	-17.57	peak
2	15690.000	45.44	6.04	51.48	54.00	-2.52	peak



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Mode:b; 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	49.94	0.36	50.30	68.30	-18.00	peak
2	15690.000	45.53	6.04	51.57	54.00	-2.43	peak

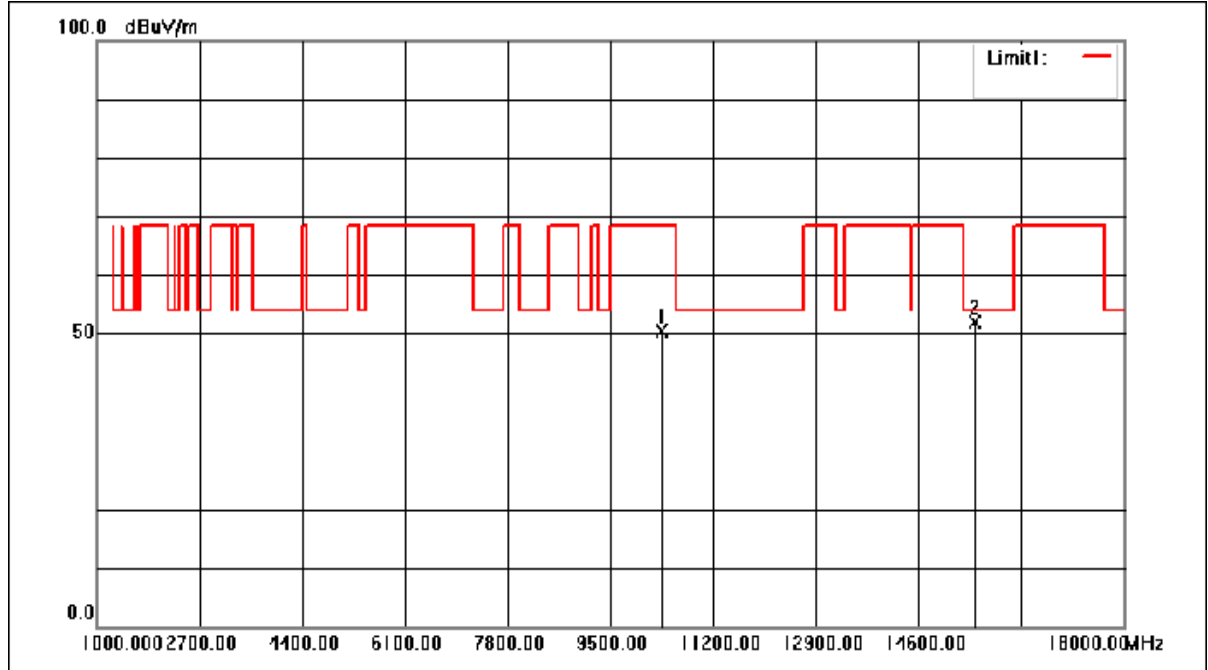


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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

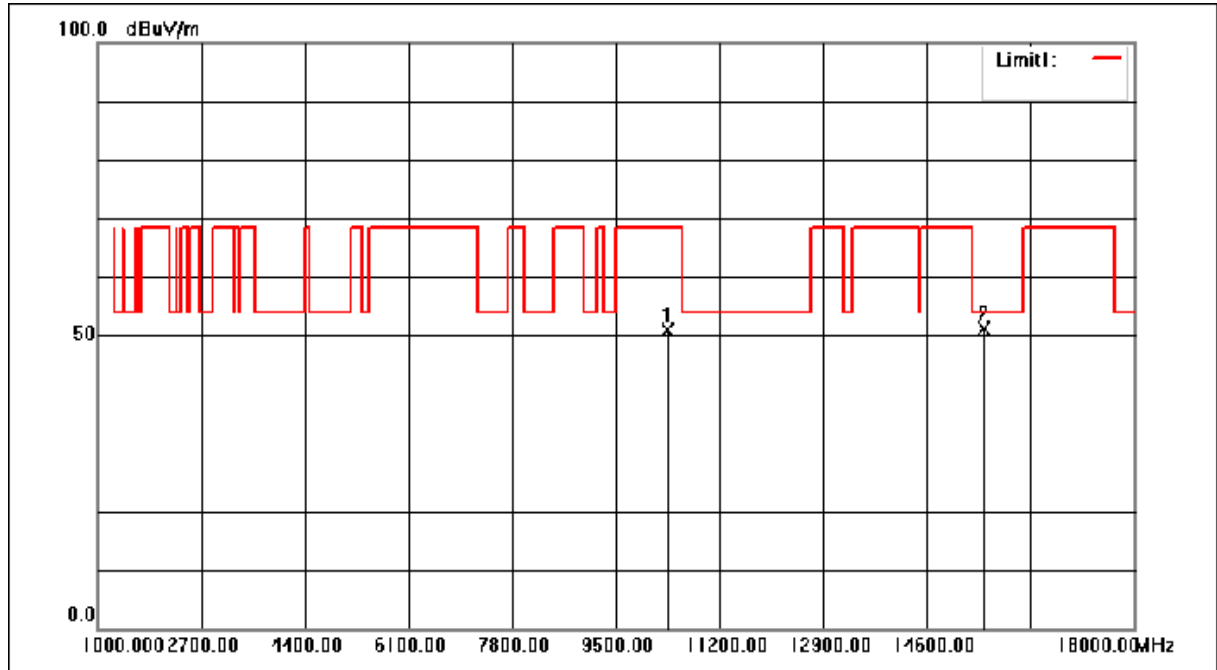


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.31	0.16	50.47	68.30	-17.83	peak
2	15540.000	46.25	5.73	51.98	54.00	-2.02	peak



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

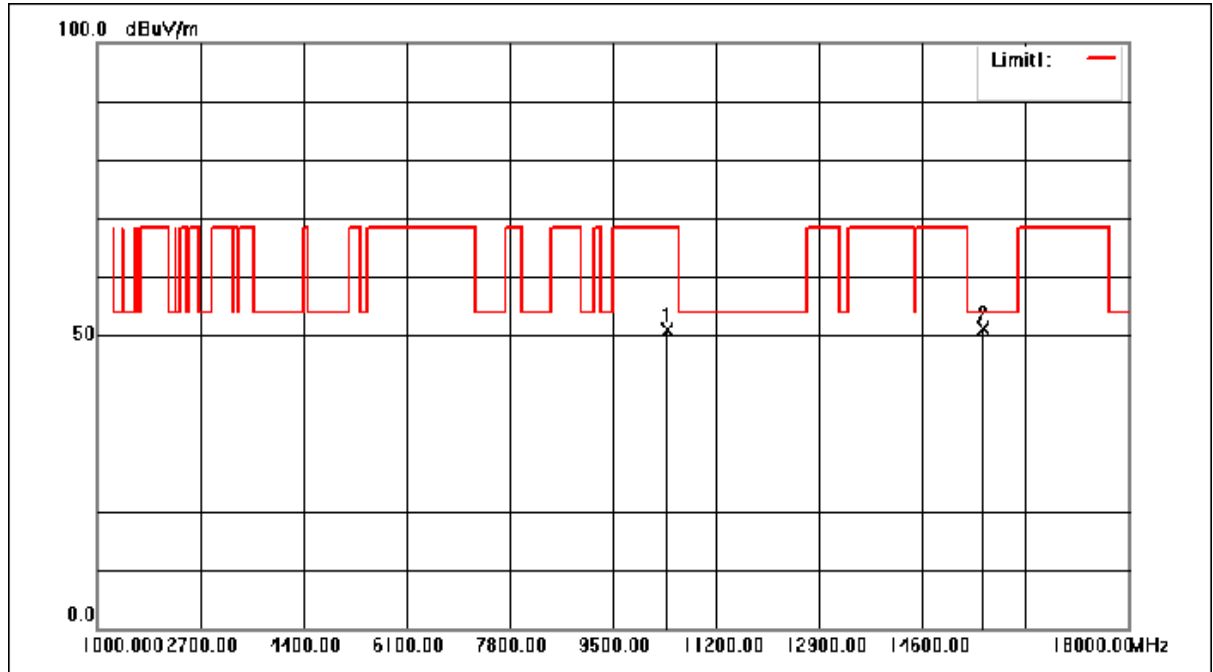


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.78	0.16	50.94	68.30	-17.36	peak
2	15540.000	45.50	5.73	51.23	54.00	-2.77	peak



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Mode:b; 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	50.60	0.24	50.84	68.30	-17.46	peak
2	15600.000	45.17	5.85	51.02	54.00	-2.98	peak

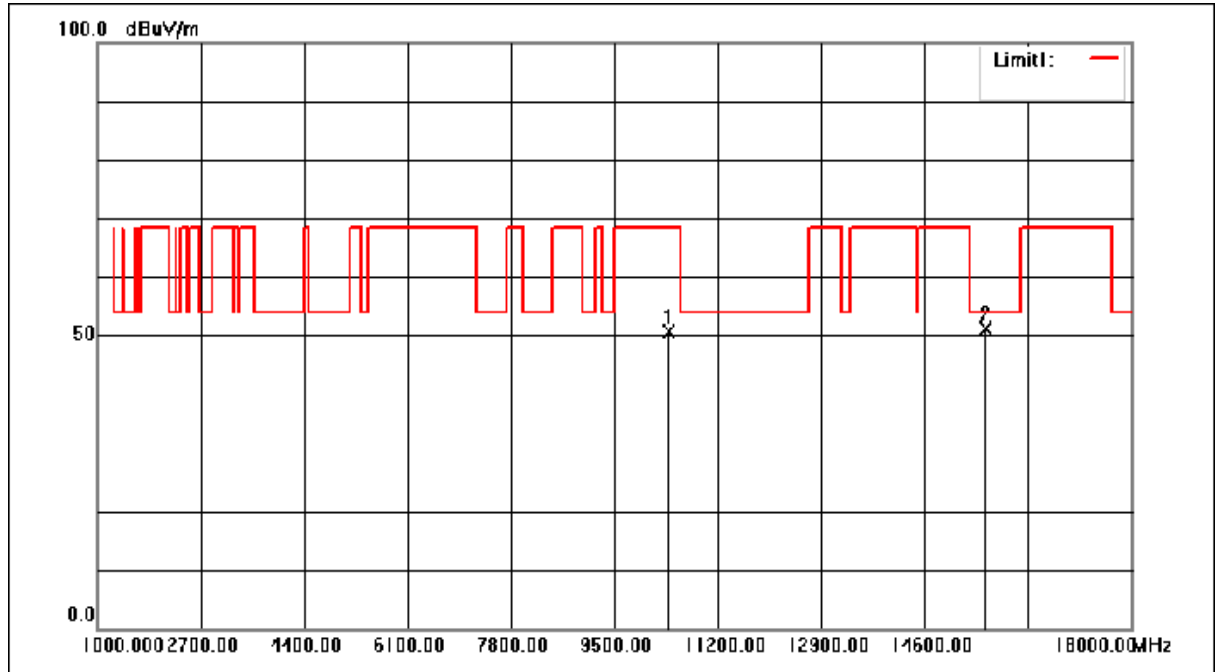


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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.37	0.24	50.61	68.30	-17.69	peak
2	15600.000	45.19	5.85	51.04	54.00	-2.96	peak



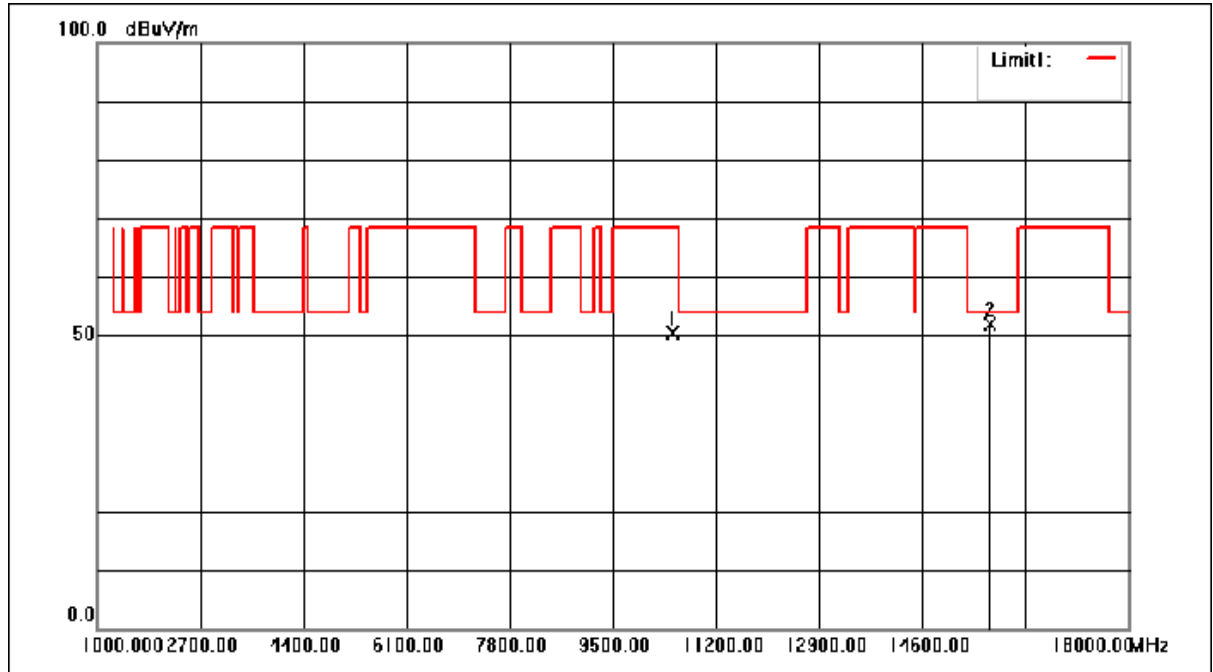
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	50.09	0.40	50.49	68.30	-17.81	peak
2	15720.000	45.88	6.10	51.98	54.00	-2.02	peak



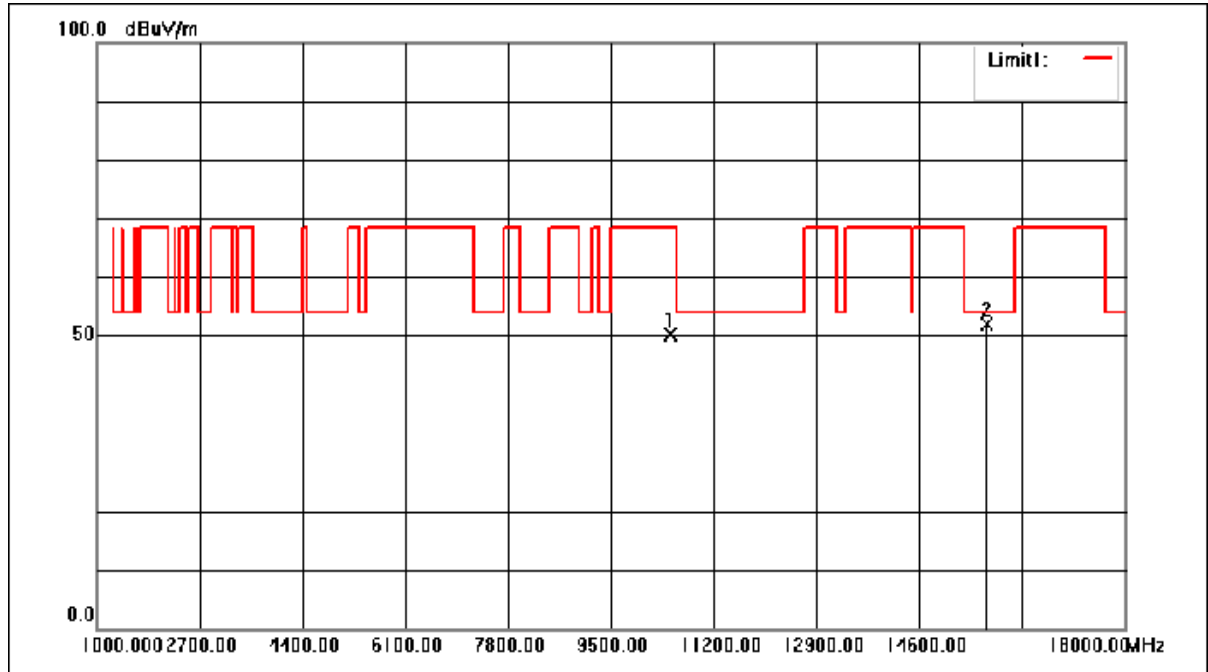
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

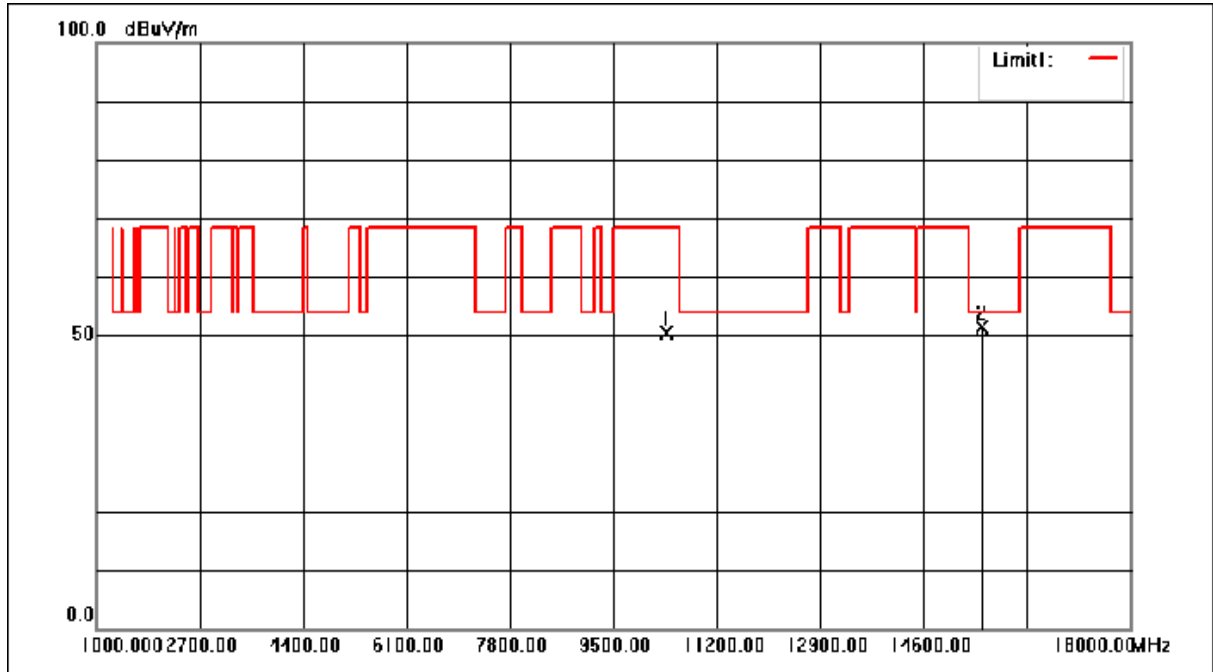


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.75	0.40	50.15	68.30	-18.15	peak
2	15720.000	45.86	6.10	51.96	54.00	-2.04	peak



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Mode:b; 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	50.17	0.20	50.37	68.30	-17.93	peak
2	15570.000	45.47	5.79	51.26	54.00	-2.74	peak

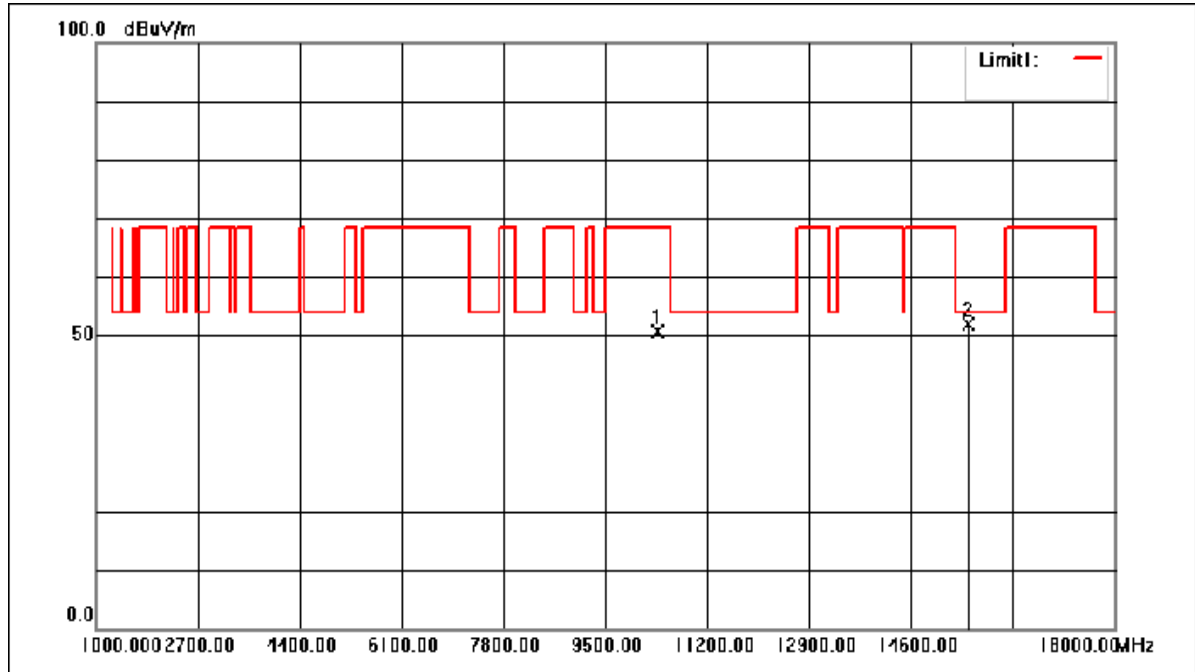


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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.31	0.20	50.51	68.30	-17.79	peak
2	15570.000	46.15	5.79	51.94	54.00	-2.06	peak



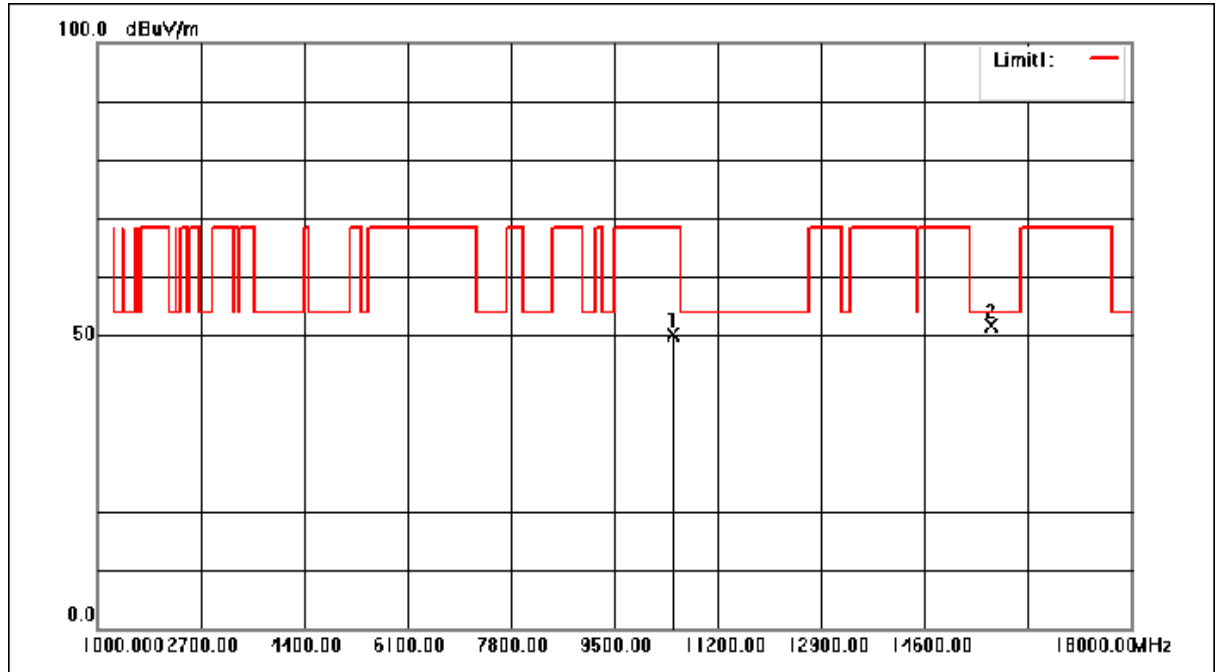
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High

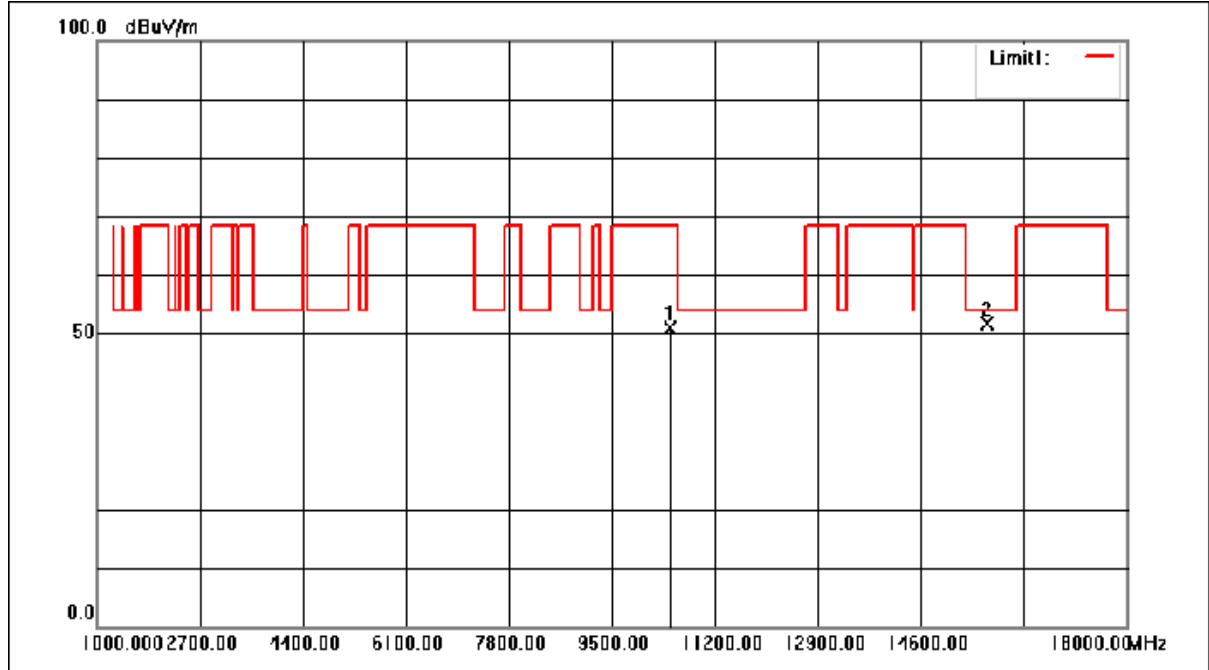


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	49.76	0.36	50.12	68.30	-18.18	peak
2	15690.000	45.60	6.04	51.64	54.00	-2.36	peak



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Mode:b; 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	50.50	0.36	50.86	68.30	-17.44	peak
2	15690.000	45.67	6.04	51.71	54.00	-2.29	peak



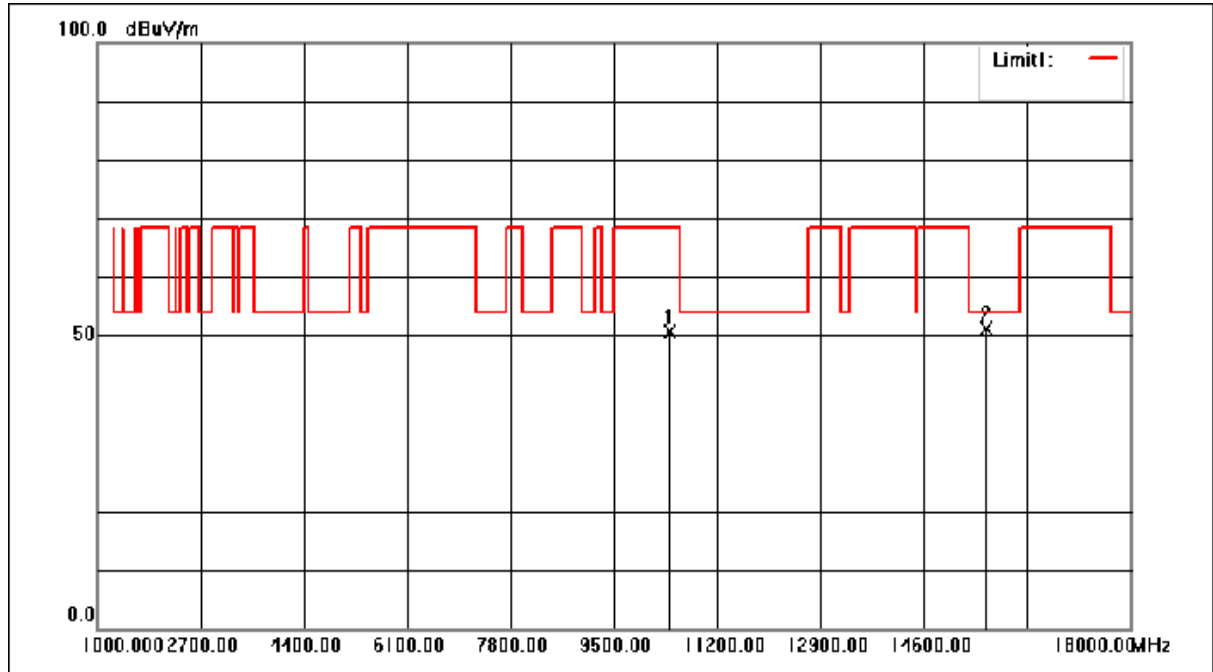
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	50.31	0.28	50.59	68.30	-17.71	peak
2	15630.000	45.24	5.92	51.16	54.00	-2.84	peak



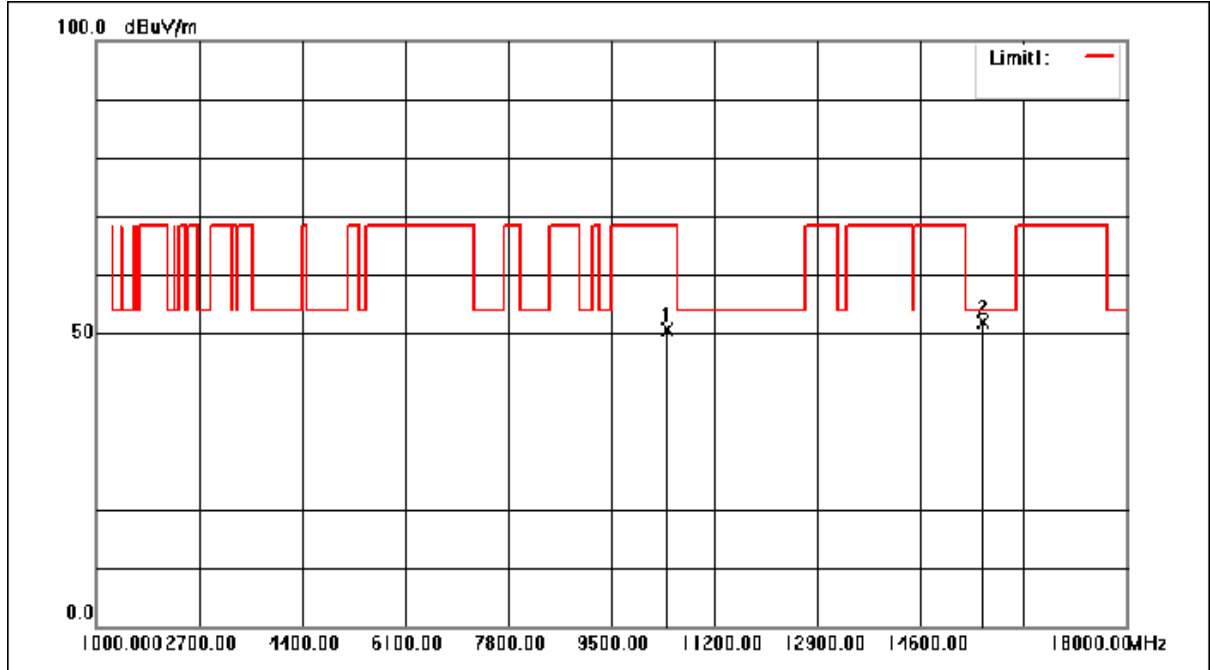
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle

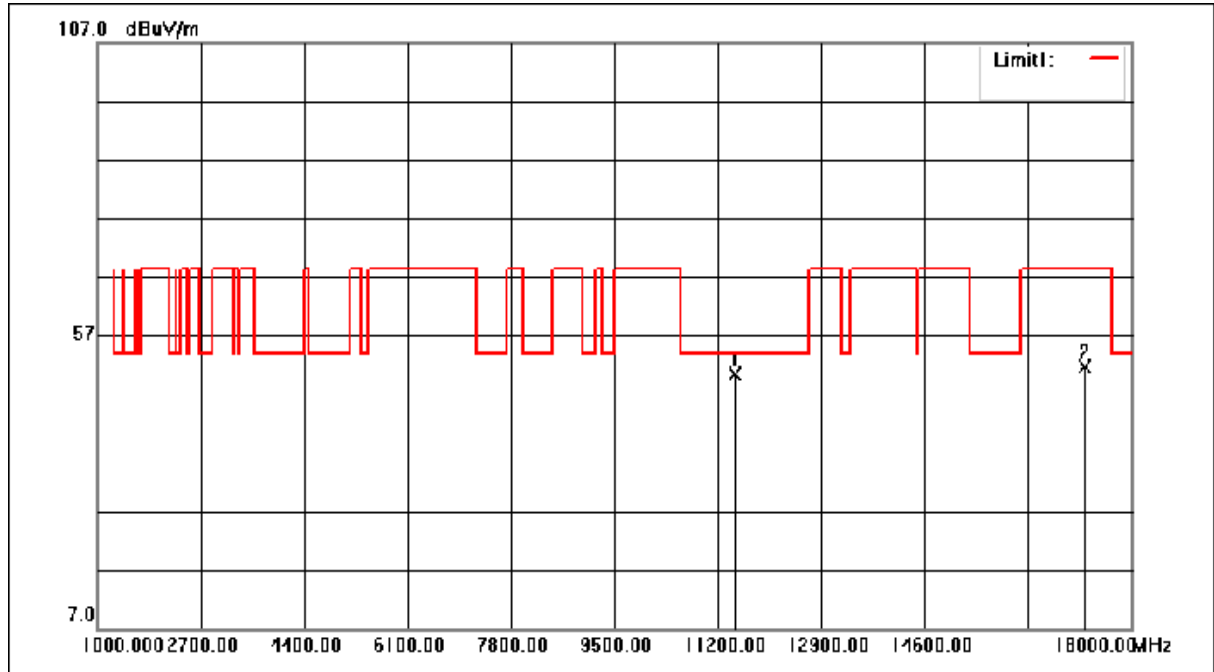


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	50.44	0.28	50.72	68.30	-17.58	peak
2	15630.000	46.07	5.92	51.99	54.00	-2.01	peak



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



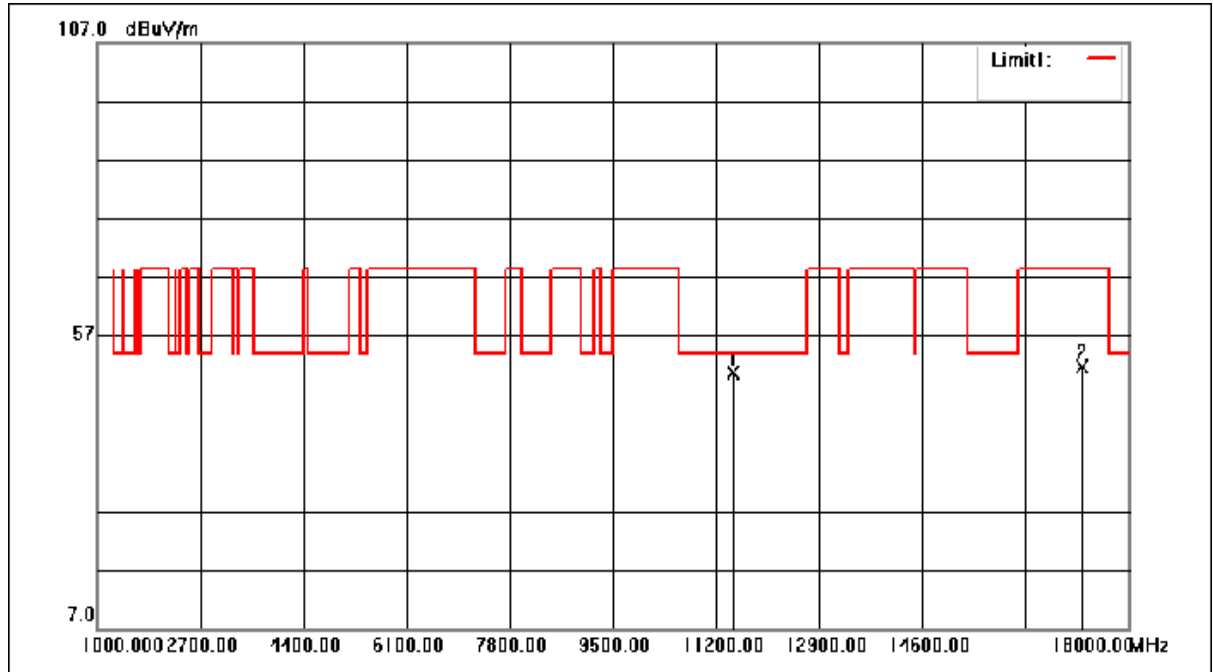
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.40	0.94	50.34	54.00	-3.66	peak
2	17235.000	42.57	9.05	51.62	68.30	-16.68	peak



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Mode:c; 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	49.64	0.94	50.58	54.00	-3.42	peak
2	17235.000	42.63	9.05	51.68	68.30	-16.62	peak



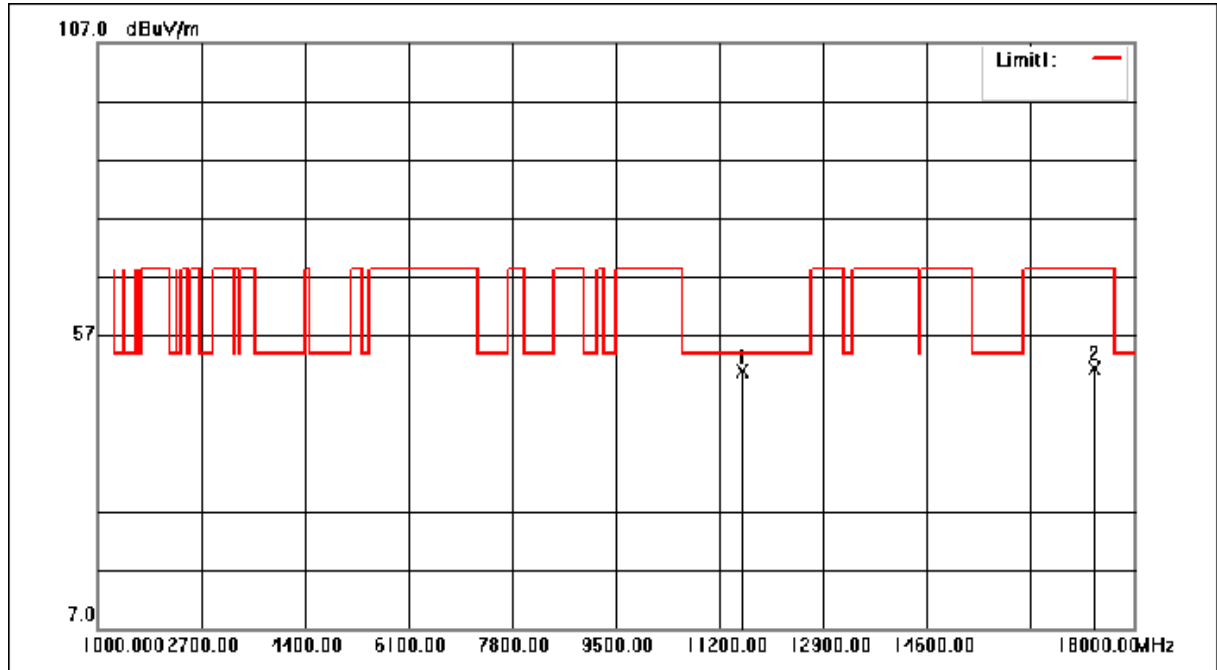
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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.78	1.18	50.96	54.00	-3.04	peak
2	17355.000	42.31	8.98	51.29	68.30	-17.01	peak



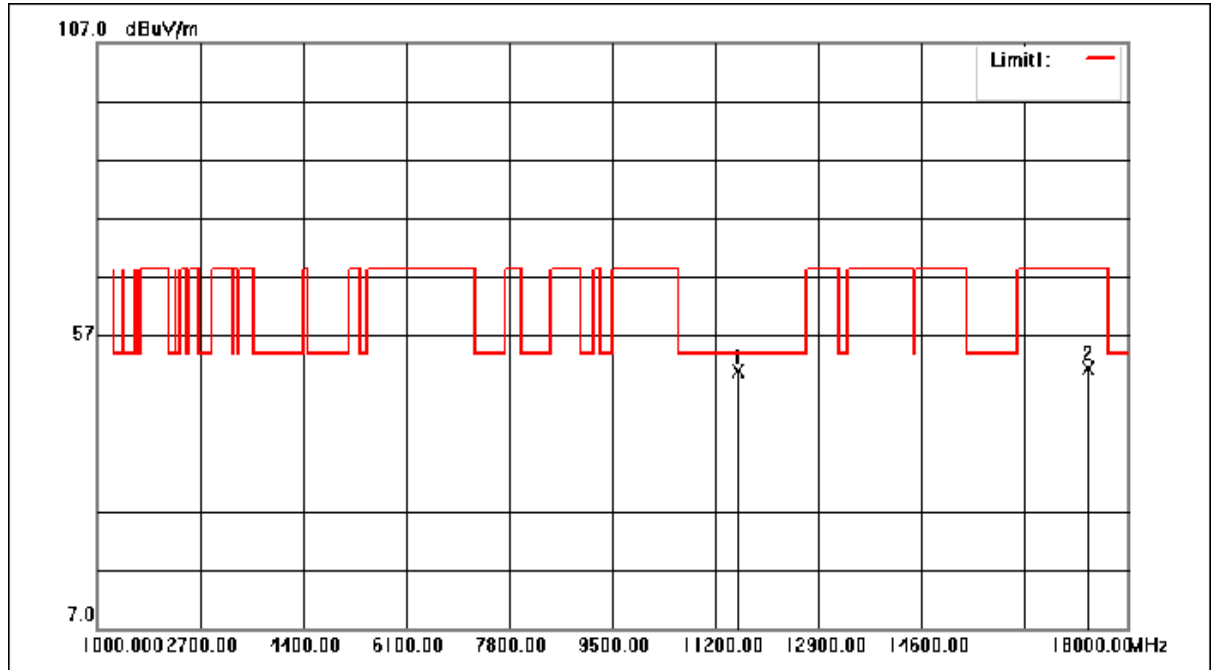
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle

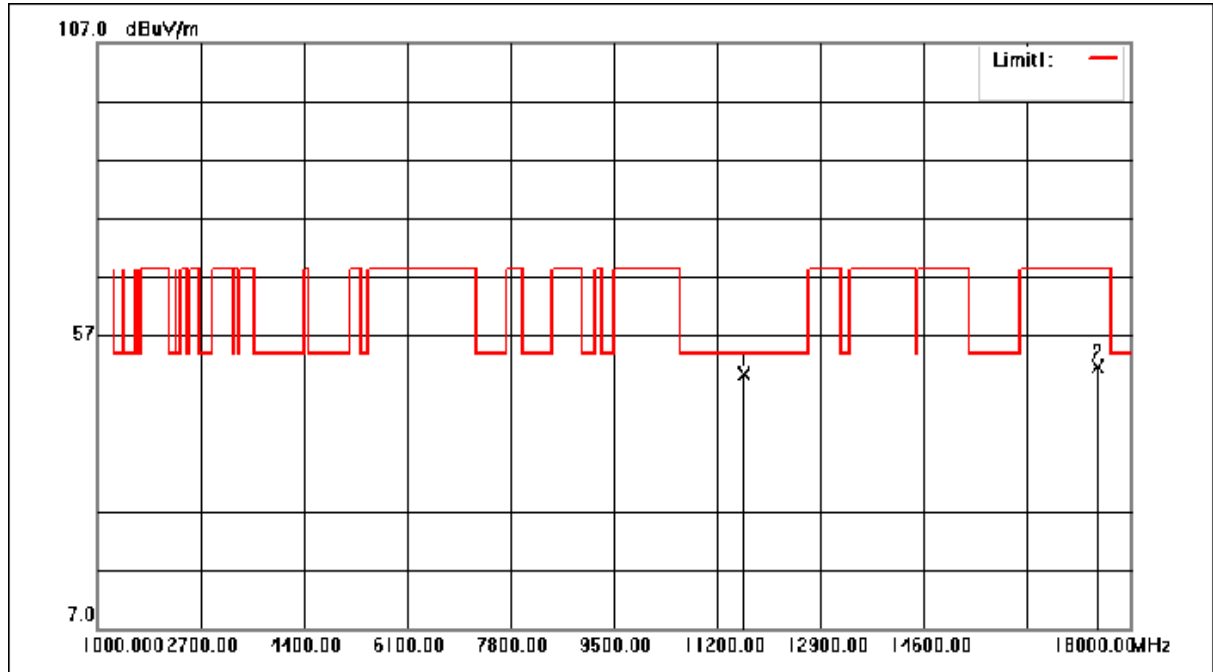


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.59	1.18	50.77	54.00	-3.23	peak
2	17355.000	42.43	8.98	51.41	68.30	-16.89	peak



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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	11650.000	49.03	1.45	50.48	54.00	-3.52	peak
2	17475.000	42.75	8.90	51.65	68.30	-16.65	peak



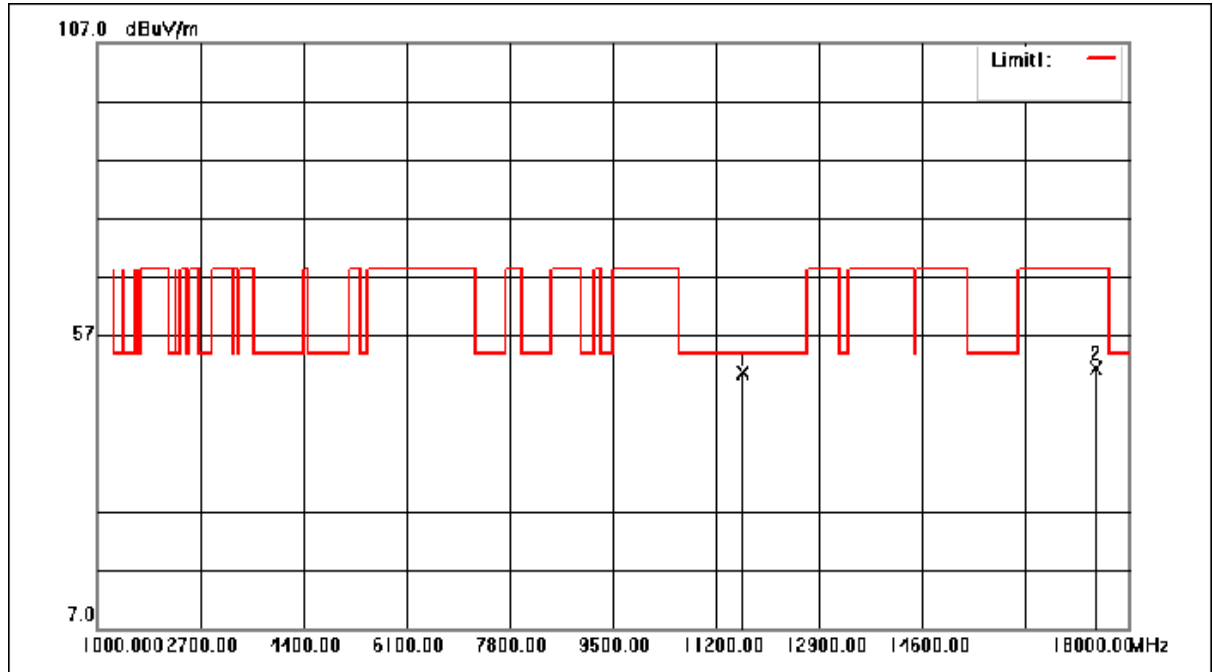
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

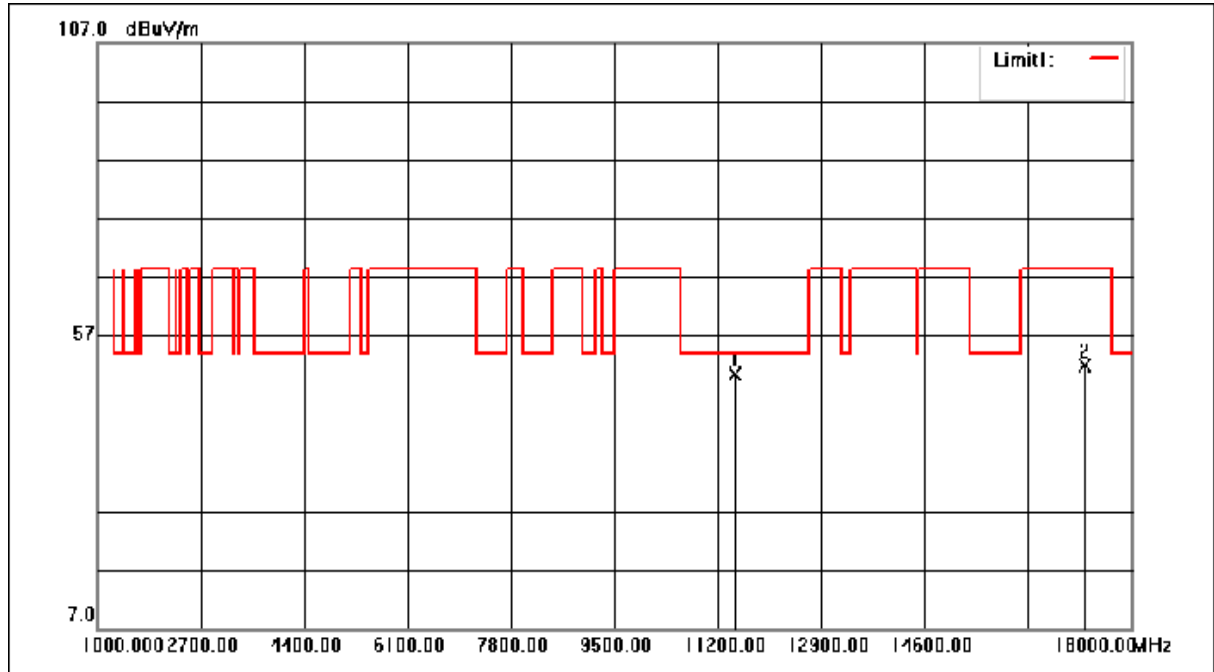


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.22	1.45	50.67	54.00	-3.33	peak
2	17475.000	42.39	8.90	51.29	68.30	-17.01	peak



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Mode:c; 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	49.43	0.94	50.37	54.00	-3.63	peak
2	17235.000	42.79	9.05	51.84	68.30	-16.46	peak



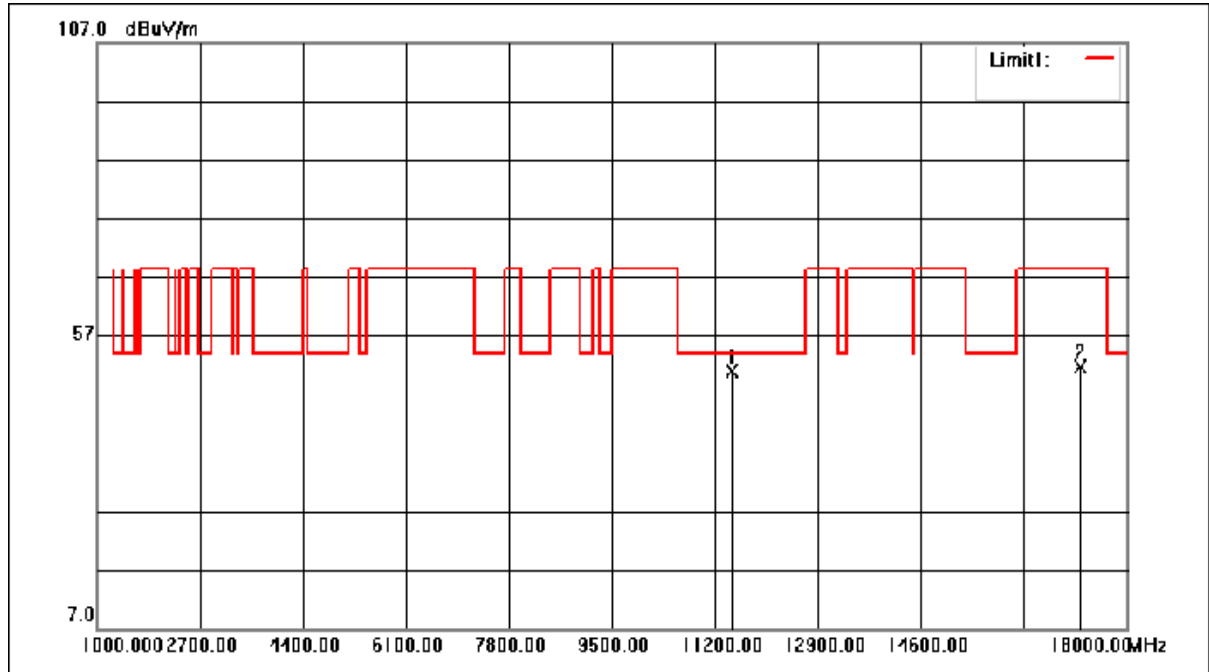
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.85	0.94	50.79	54.00	-3.21	peak
2	17235.000	42.46	9.05	51.51	68.30	-16.79	peak



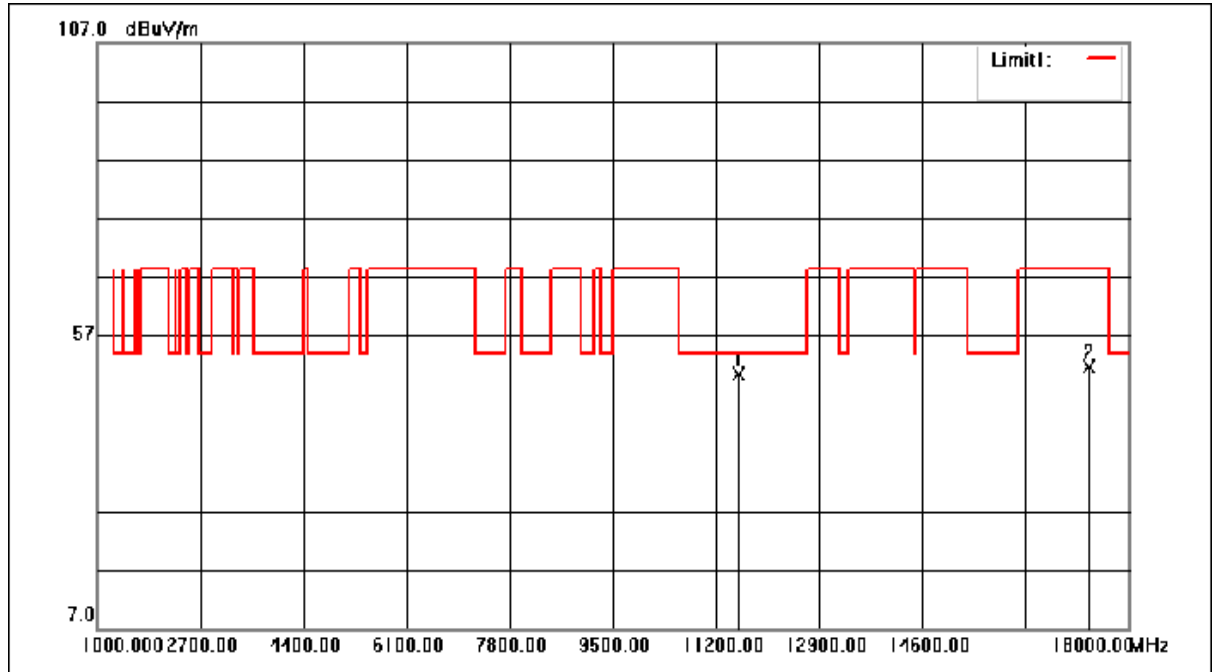
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.21	1.18	50.39	54.00	-3.61	peak
2	17355.000	42.58	8.98	51.56	68.30	-16.74	peak



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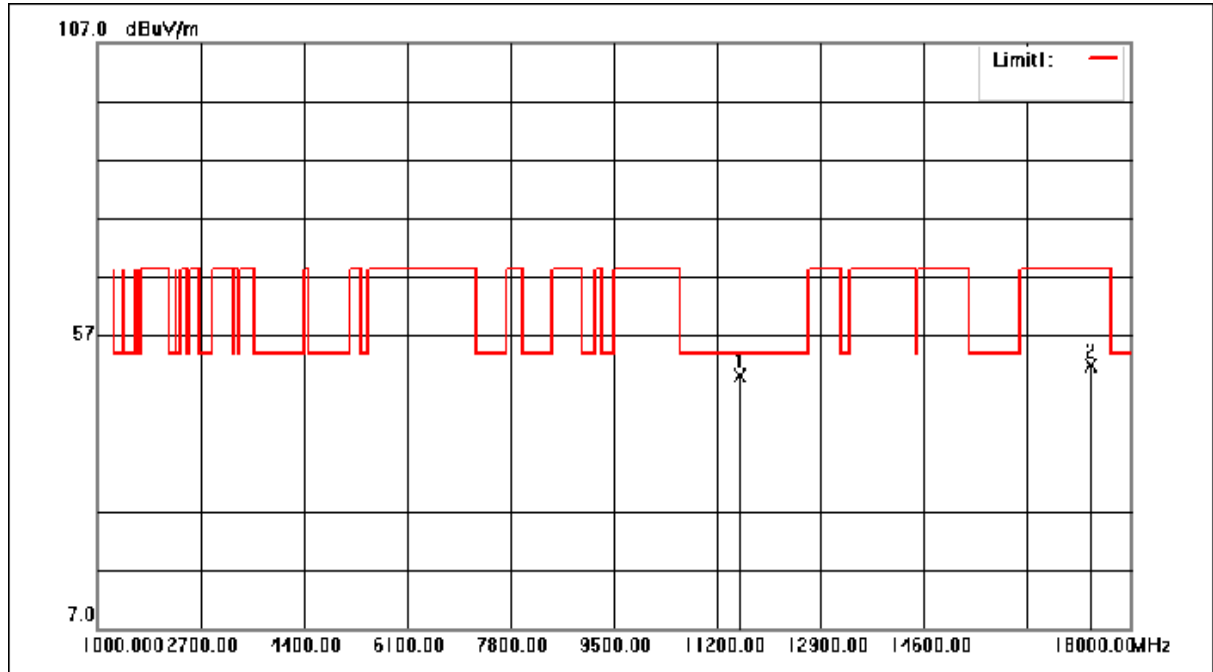
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle

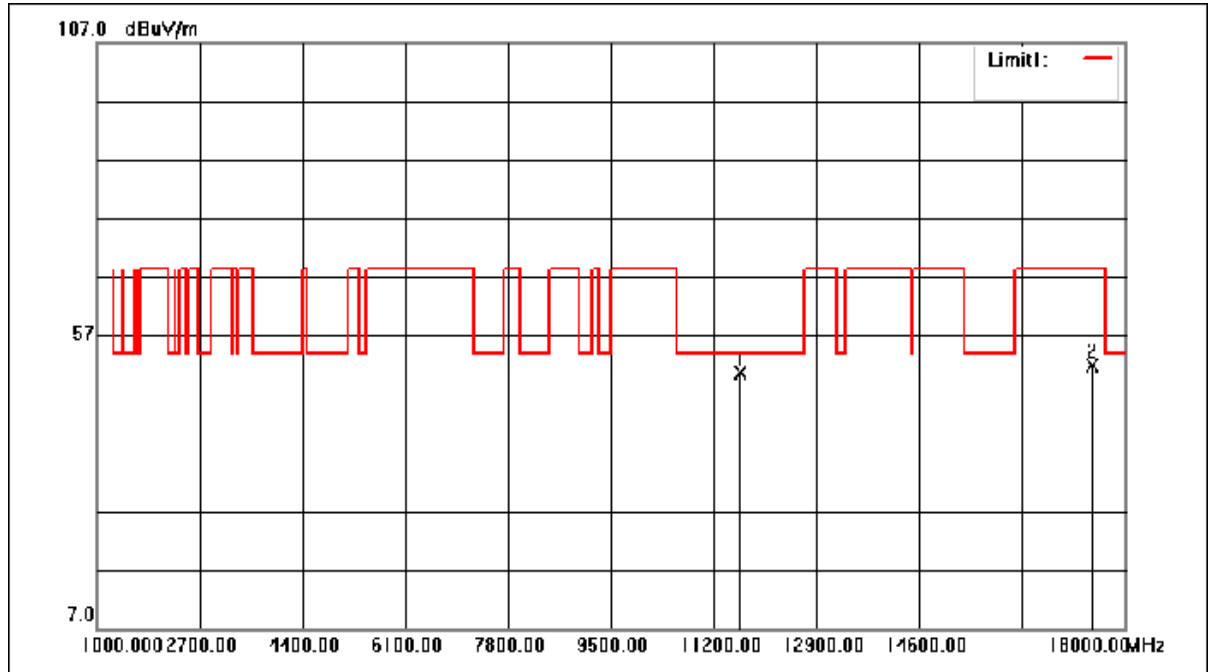


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.84	1.18	50.02	54.00	-3.98	peak
2	17355.000	42.95	8.98	51.93	68.30	-16.37	peak



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Mode:c; 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	49.16	1.45	50.61	54.00	-3.39	peak
2	17475.000	43.07	8.90	51.97	68.30	-16.33	peak



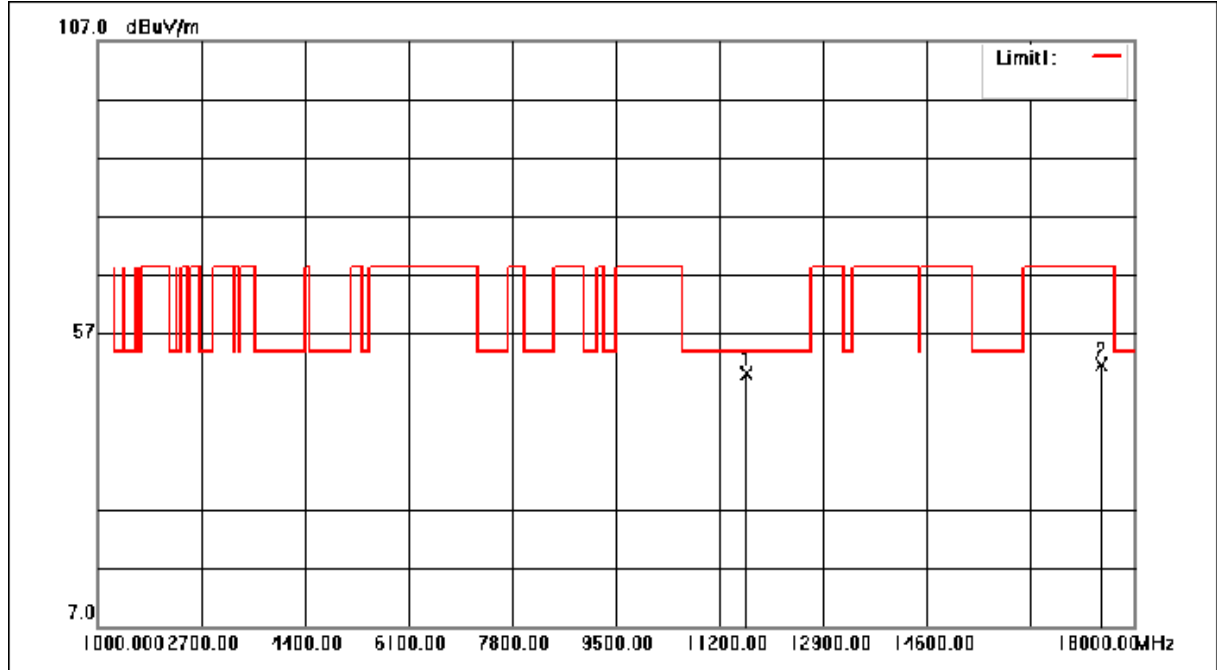
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.77	1.45	50.22	54.00	-3.78	peak
2	17475.000	42.83	8.90	51.73	68.30	-16.57	peak



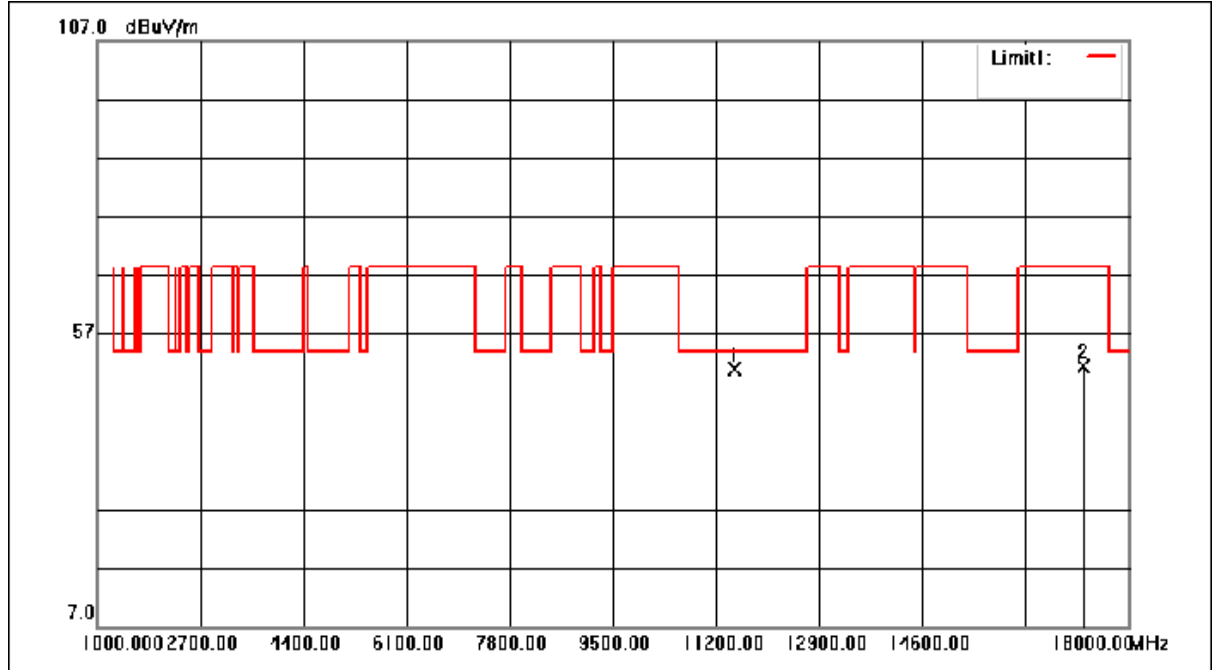
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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

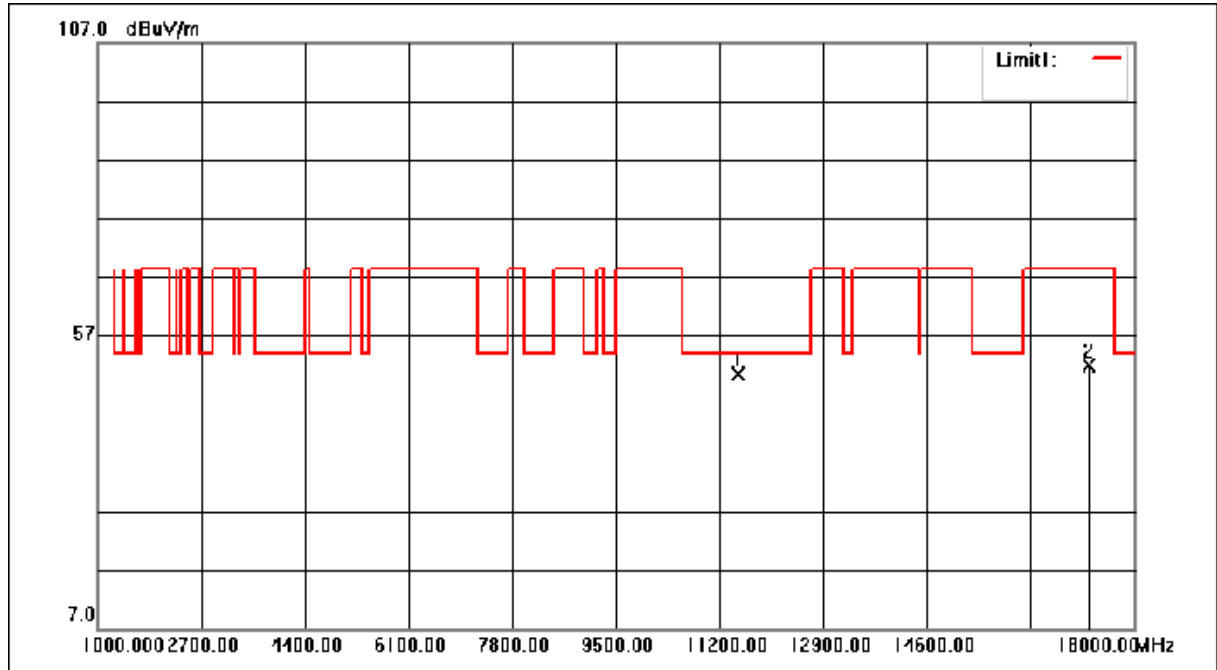


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.88	0.99	50.87	54.00	-3.13	peak
2	17265.000	42.24	9.03	51.27	68.30	-17.03	peak



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Mode:c; 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	49.48	0.99	50.47	54.00	-3.53	peak
2	17265.000	42.78	9.03	51.81	68.30	-16.49	peak



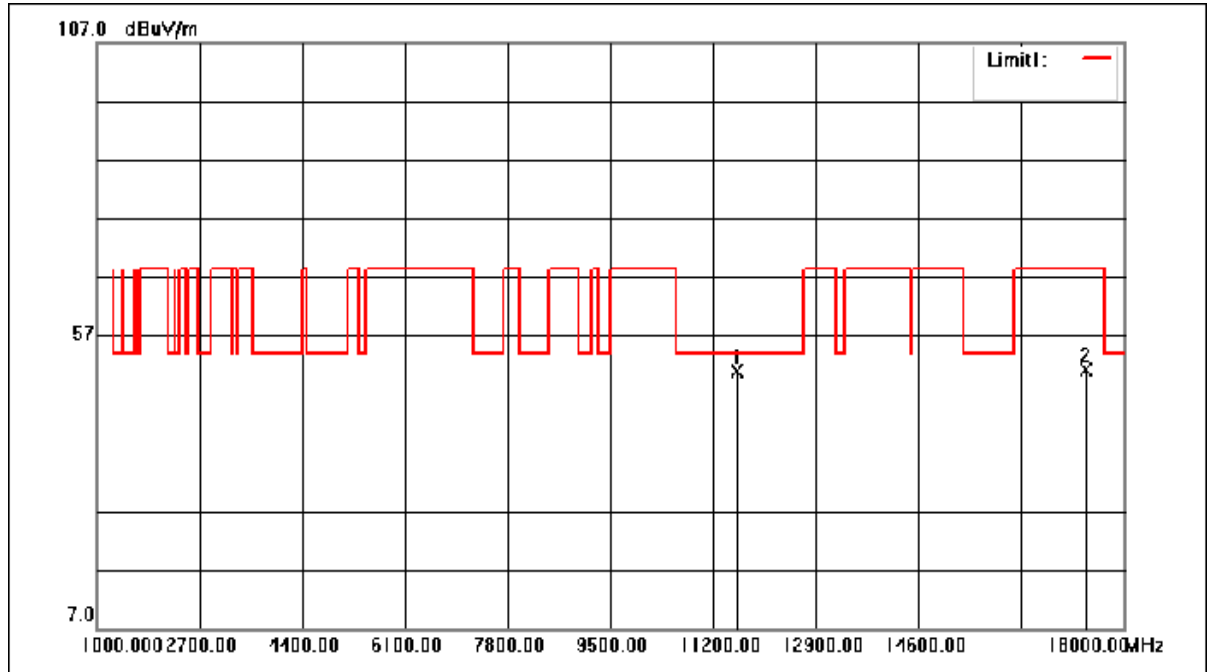
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

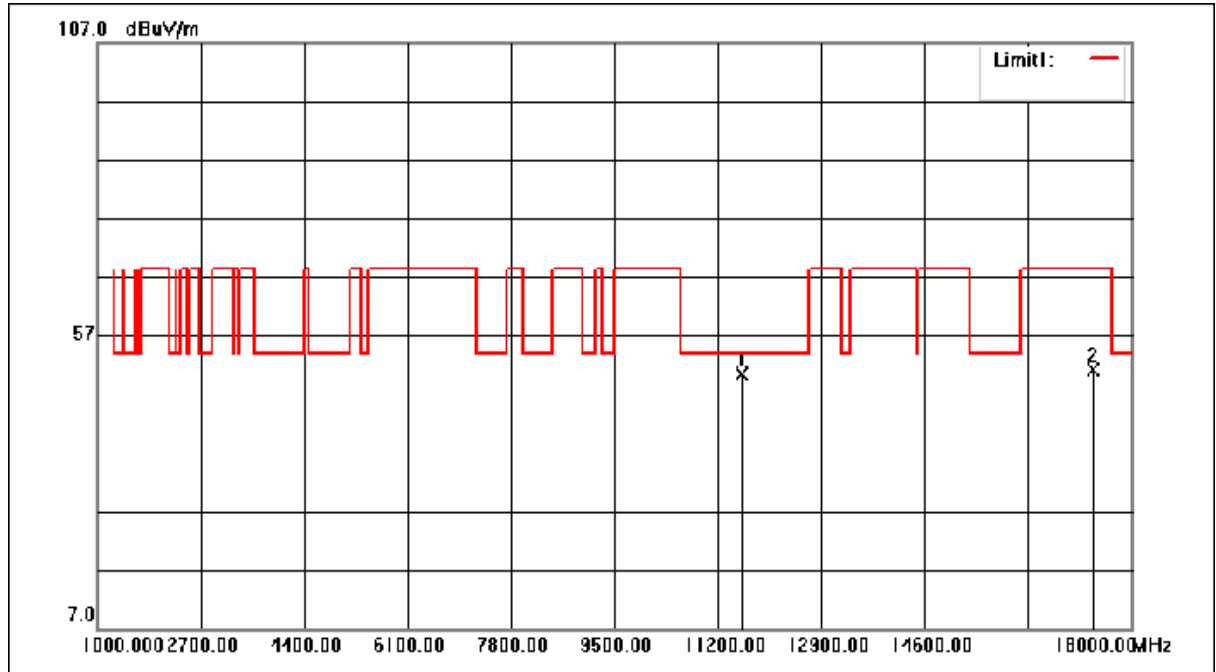


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.69	1.25	50.94	54.00	-3.06	peak
2	17385.000	42.19	8.96	51.15	68.30	-17.15	peak



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Mode:c; 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	49.01	1.25	50.26	54.00	-3.74	peak
2	17385.000	42.20	8.96	51.16	68.30	-17.14	peak



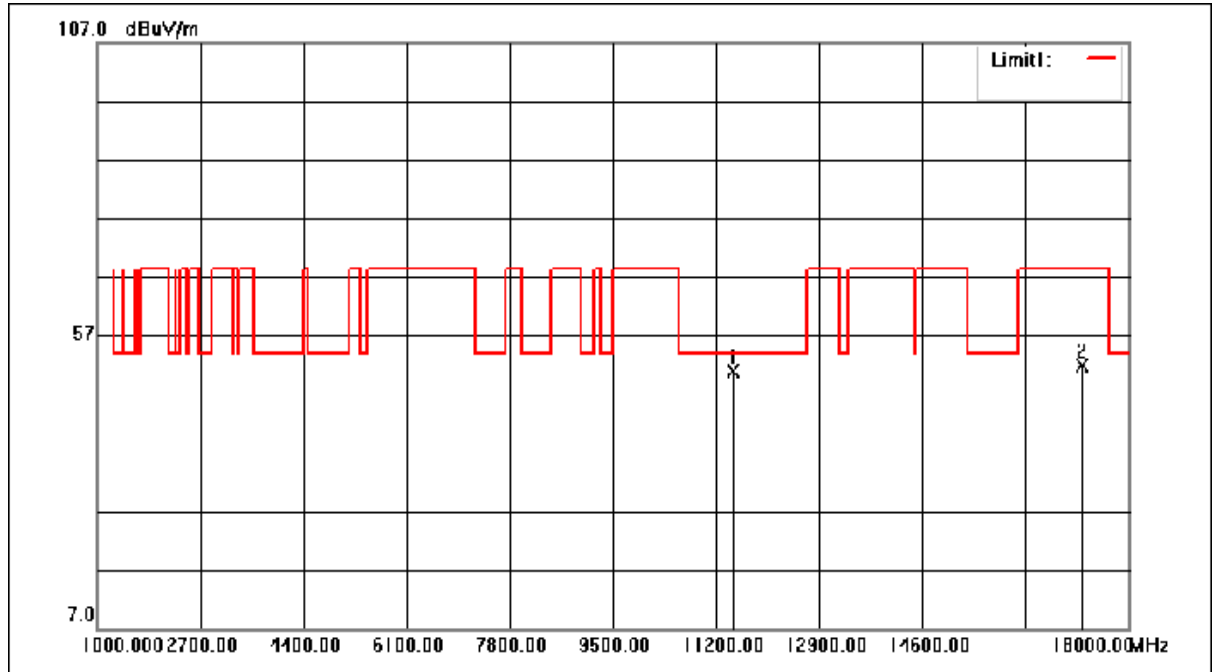
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



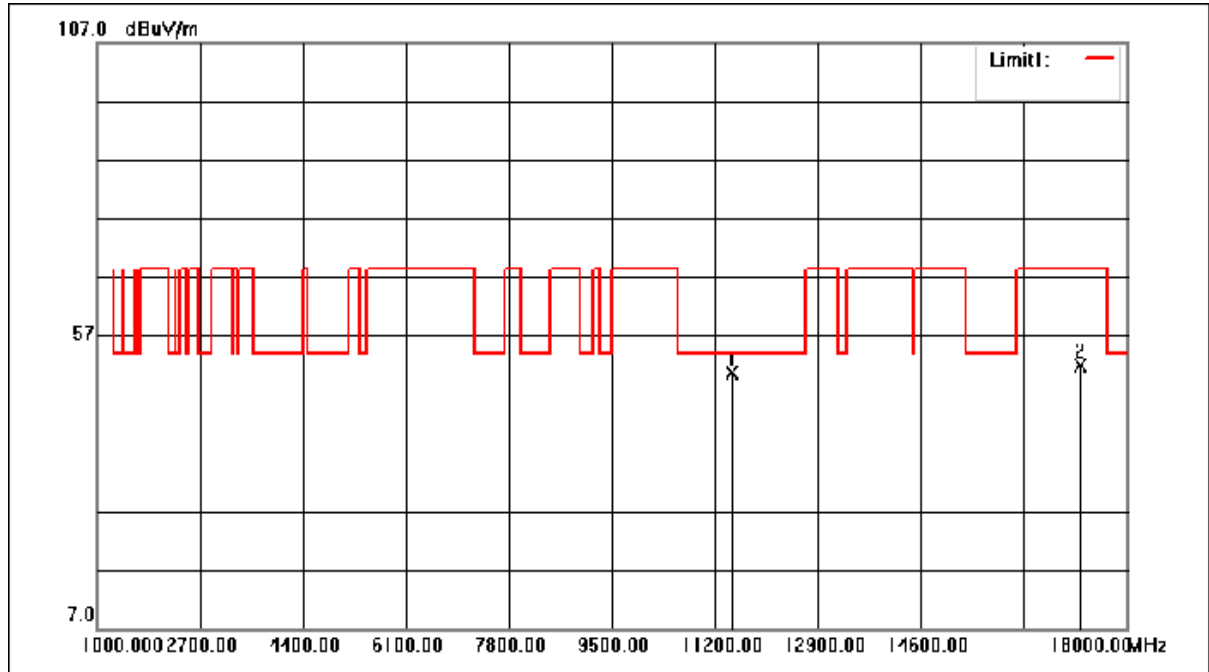
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.83	0.94	50.77	54.00	-3.23	peak
2	17235.000	42.81	9.05	51.86	68.30	-16.44	peak



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

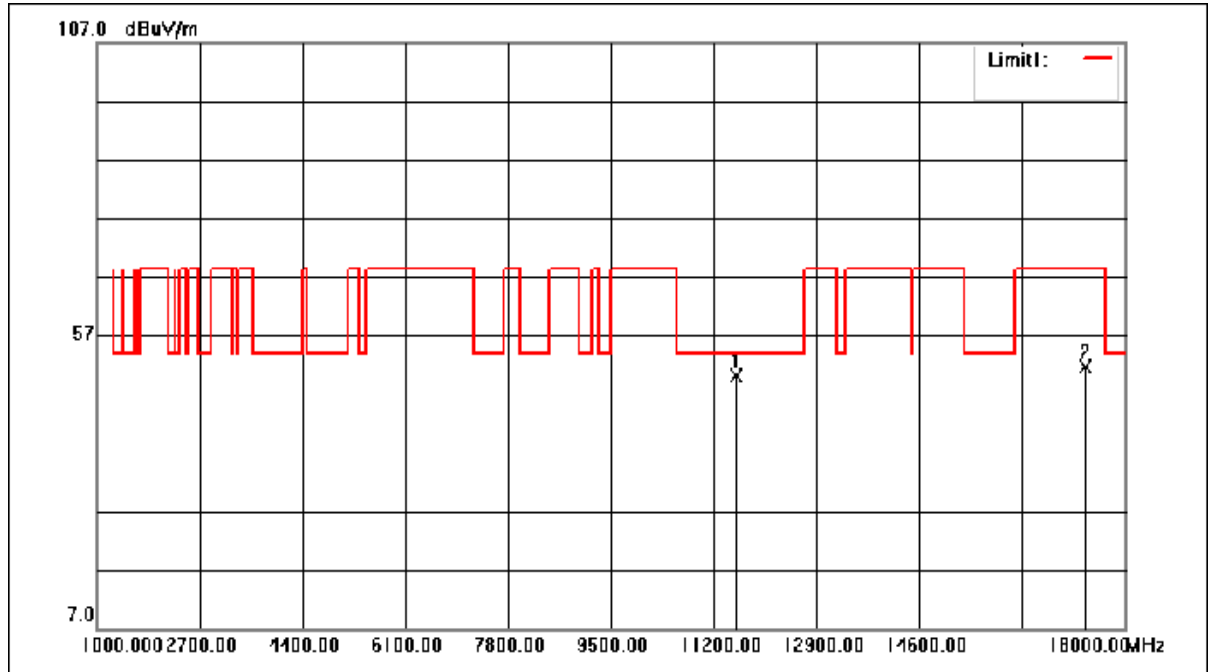


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.61	0.94	50.55	54.00	-3.45	peak
2	17235.000	42.80	9.05	51.85	68.30	-16.45	peak



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

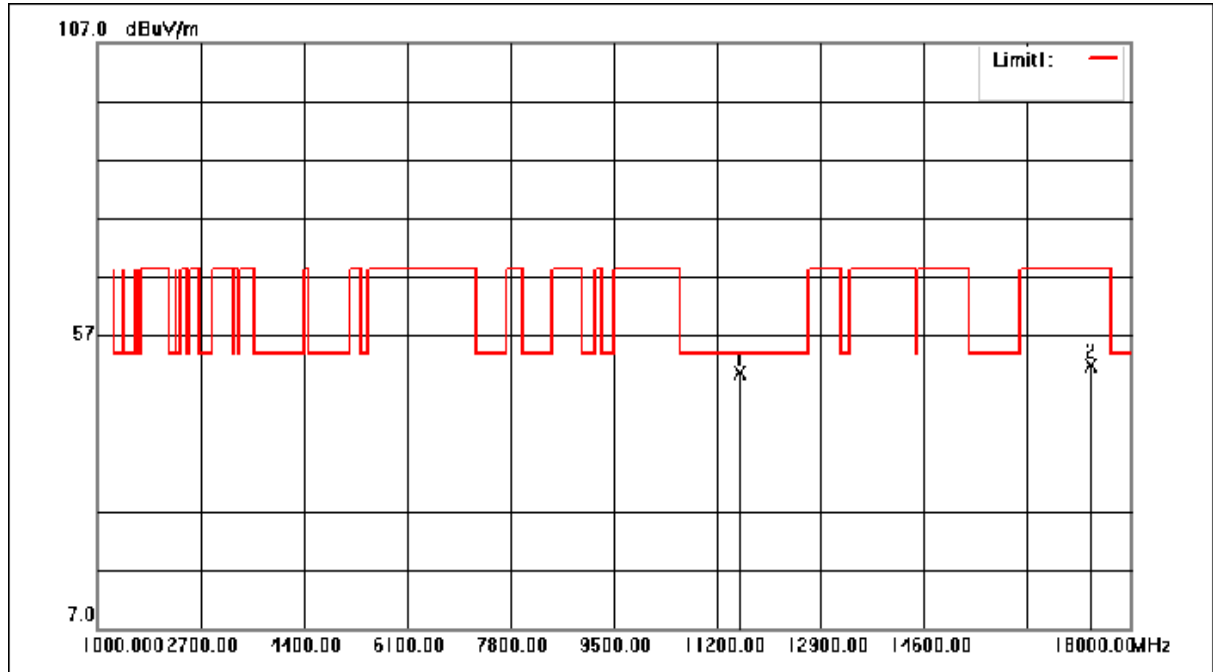


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.00	1.18	50.18	54.00	-3.82	peak
2	17355.000	42.76	8.98	51.74	68.30	-16.56	peak



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

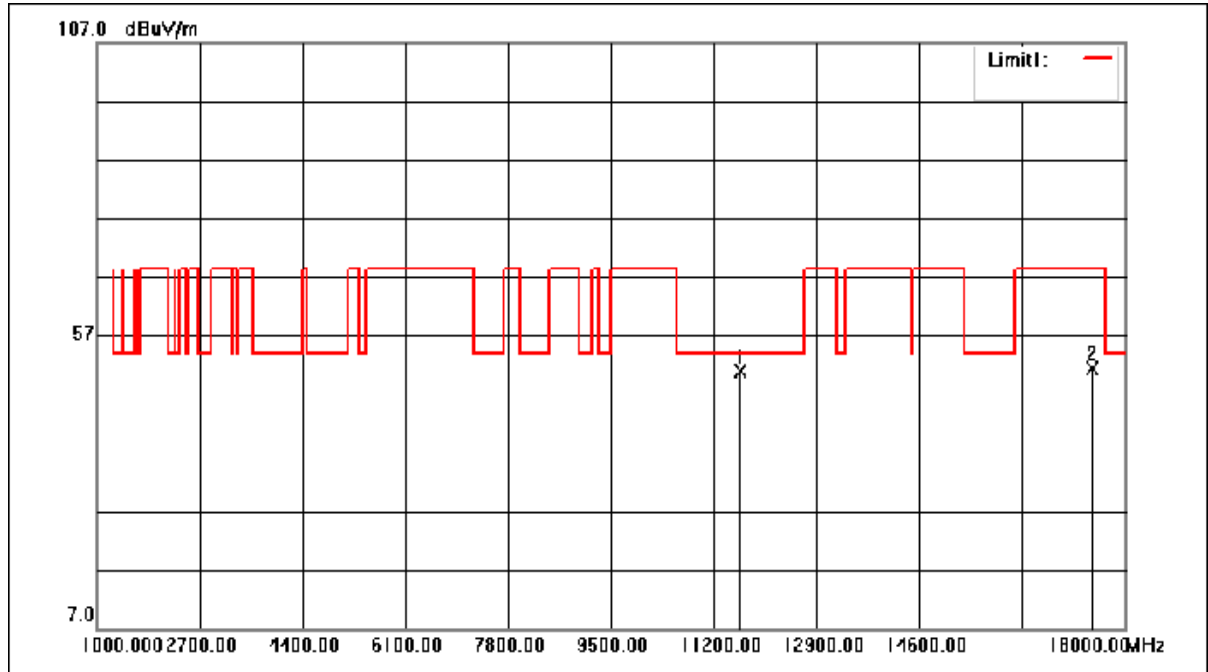


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.46	1.18	50.64	54.00	-3.36	peak
2	17355.000	42.79	8.98	51.77	68.30	-16.53	peak



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

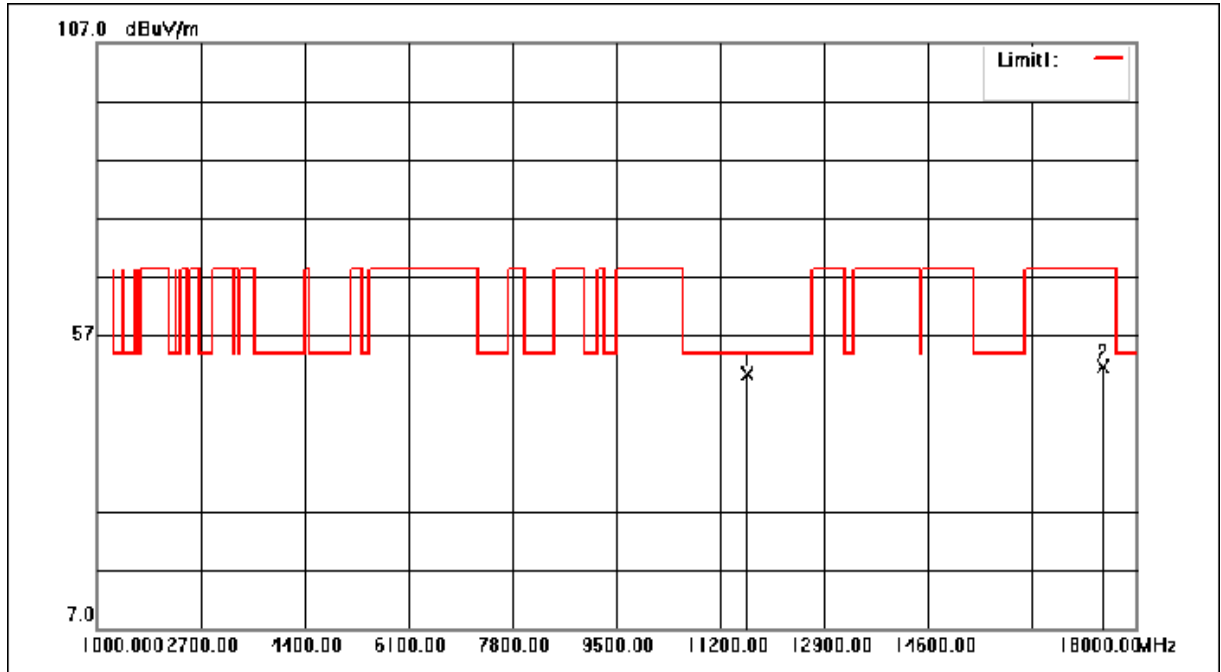


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.36	1.45	50.81	54.00	-3.19	peak
2	17475.000	42.60	8.90	51.50	68.30	-16.80	peak



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Mode:c; 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	49.03	1.45	50.48	54.00	-3.52	peak
2	17475.000	42.64	8.90	51.54	68.30	-16.76	peak



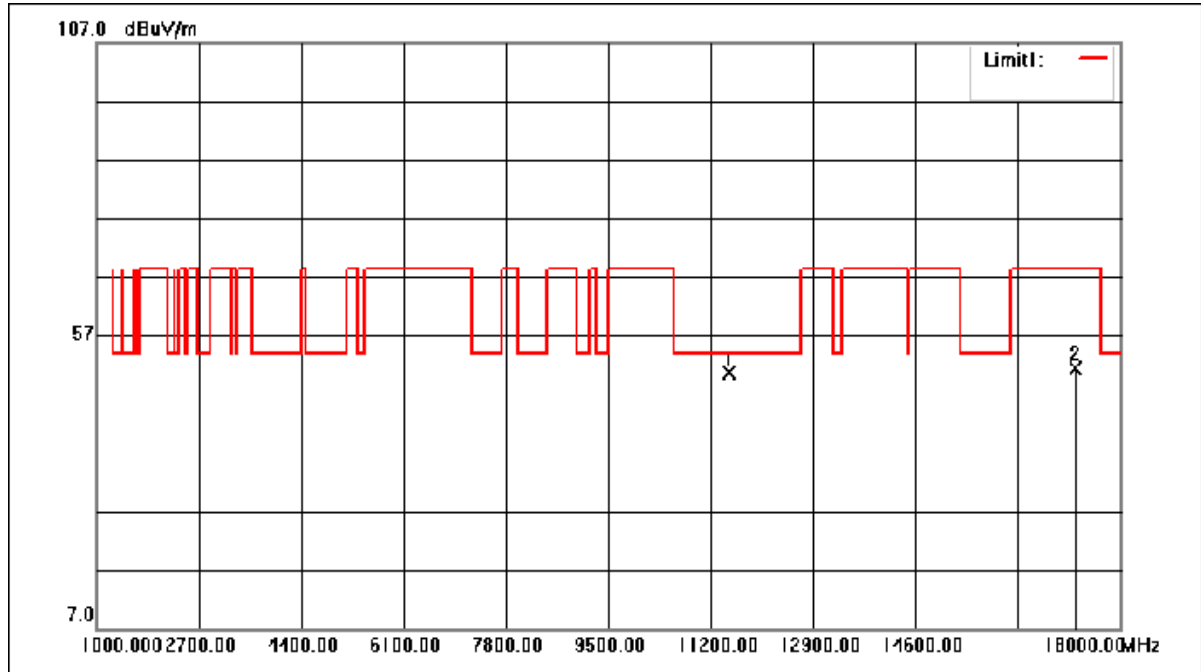
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

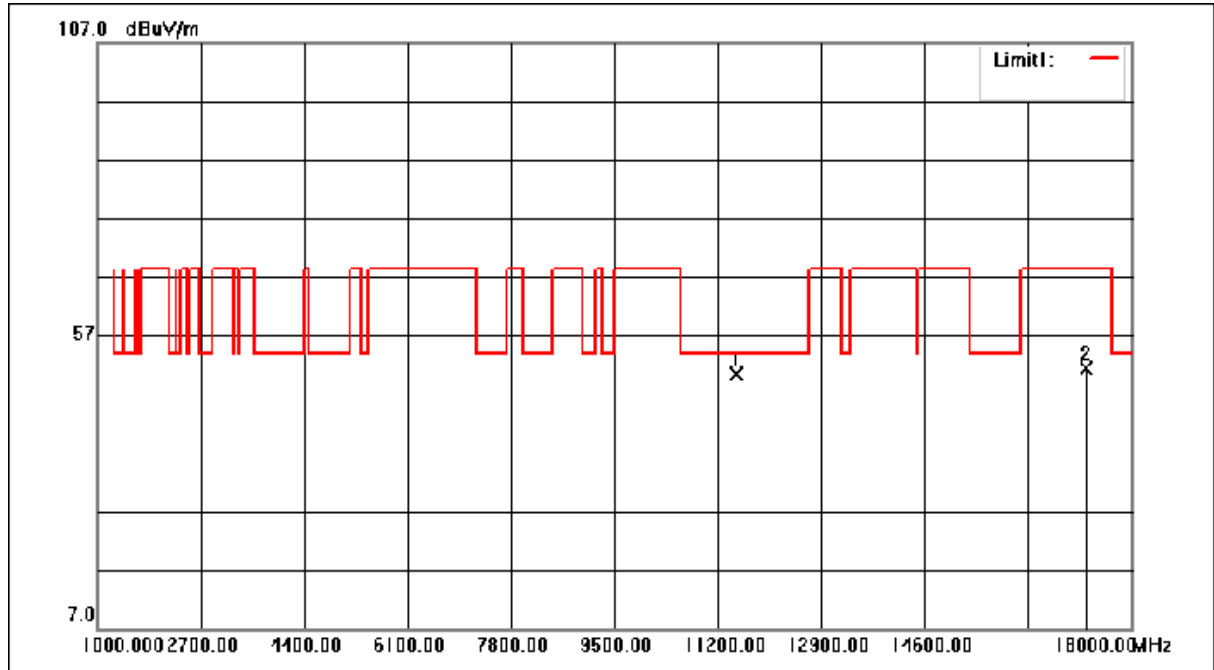


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.75	0.99	50.74	54.00	-3.26	peak
2	17265.000	42.35	9.03	51.38	68.30	-16.92	peak



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

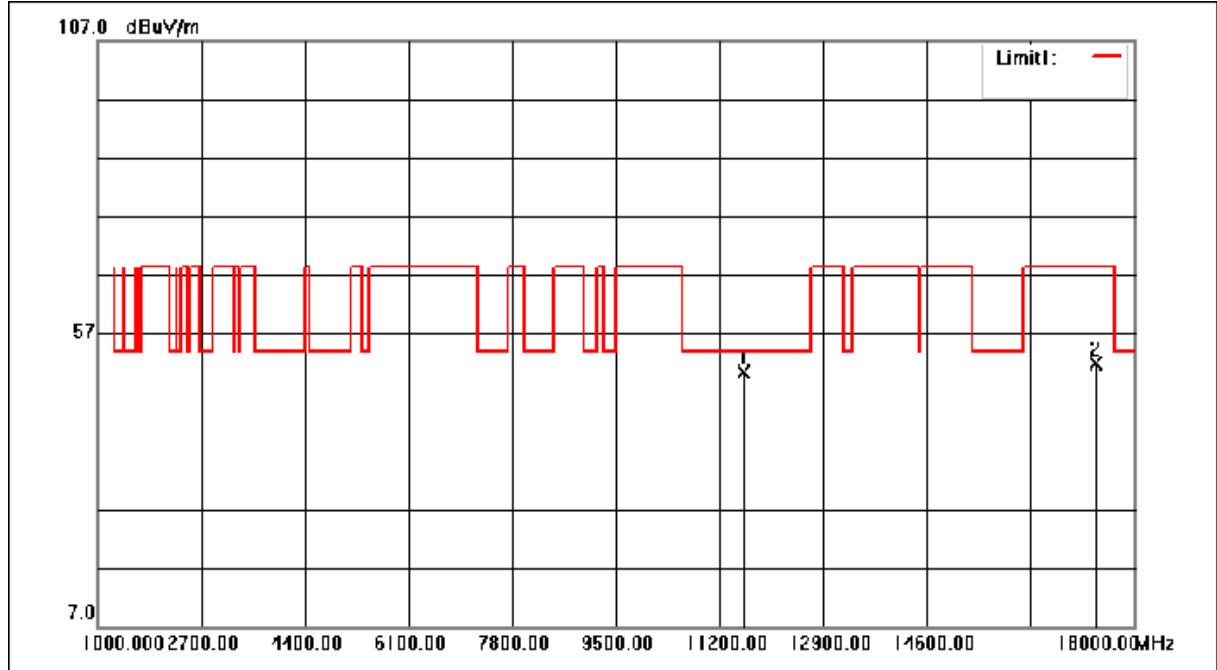


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.38	0.99	50.37	54.00	-3.63	peak
2	17265.000	42.23	9.03	51.26	68.30	-17.04	peak



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Mode:c; 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	49.20	1.25	50.45	54.00	-3.55	peak
2	17385.000	42.80	8.96	51.76	68.30	-16.54	peak



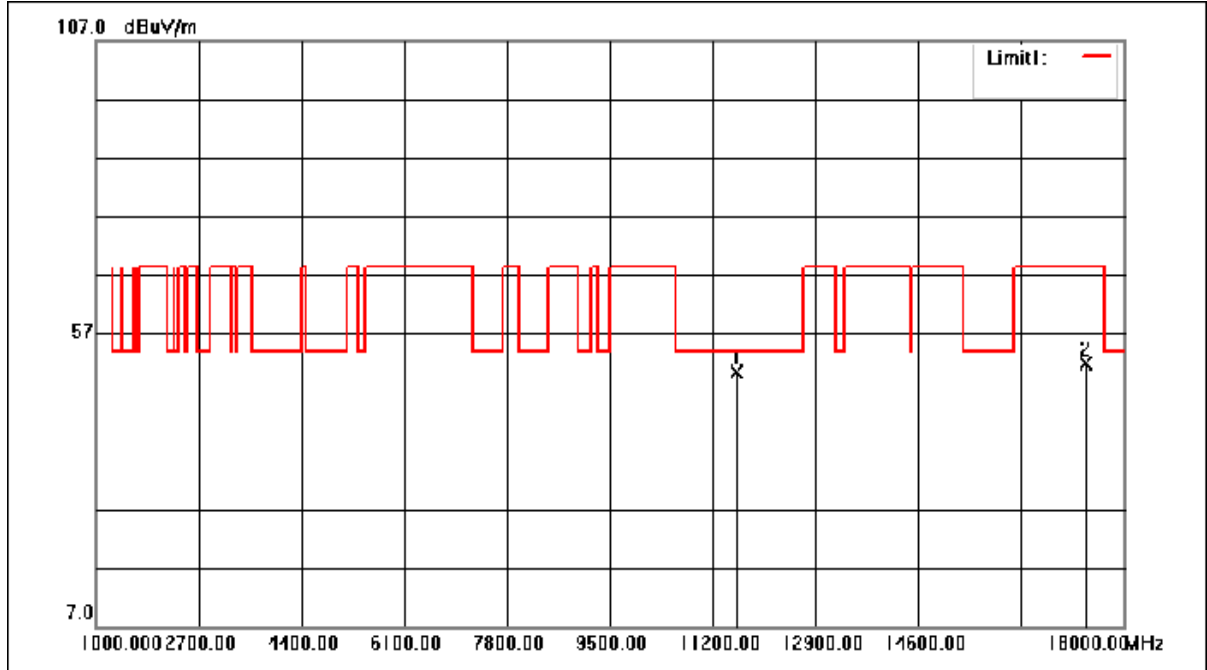
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.23	1.25	50.48	54.00	-3.52	peak
2	17385.000	42.98	8.96	51.94	68.30	-16.36	peak



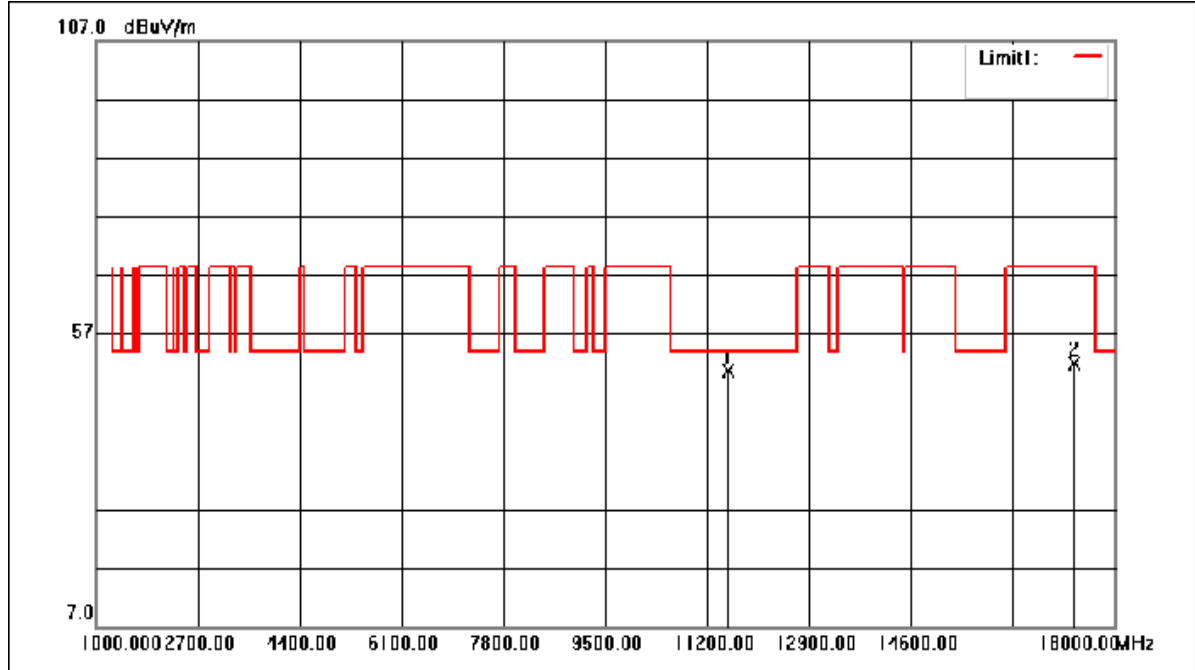
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle

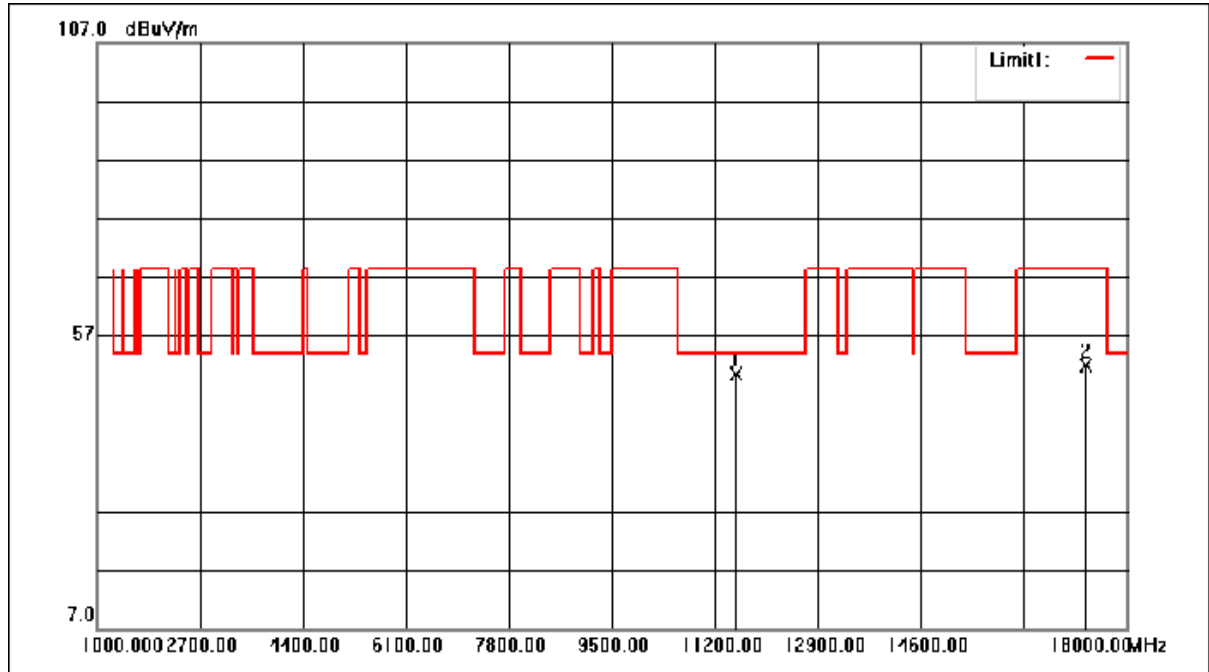


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	49.41	1.12	50.53	54.00	-3.47	peak
2	17325.000	42.90	8.99	51.89	68.30	-16.41	peak



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Mode:c; 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	42.81	8.99	51.80	68.30	-16.50	peak



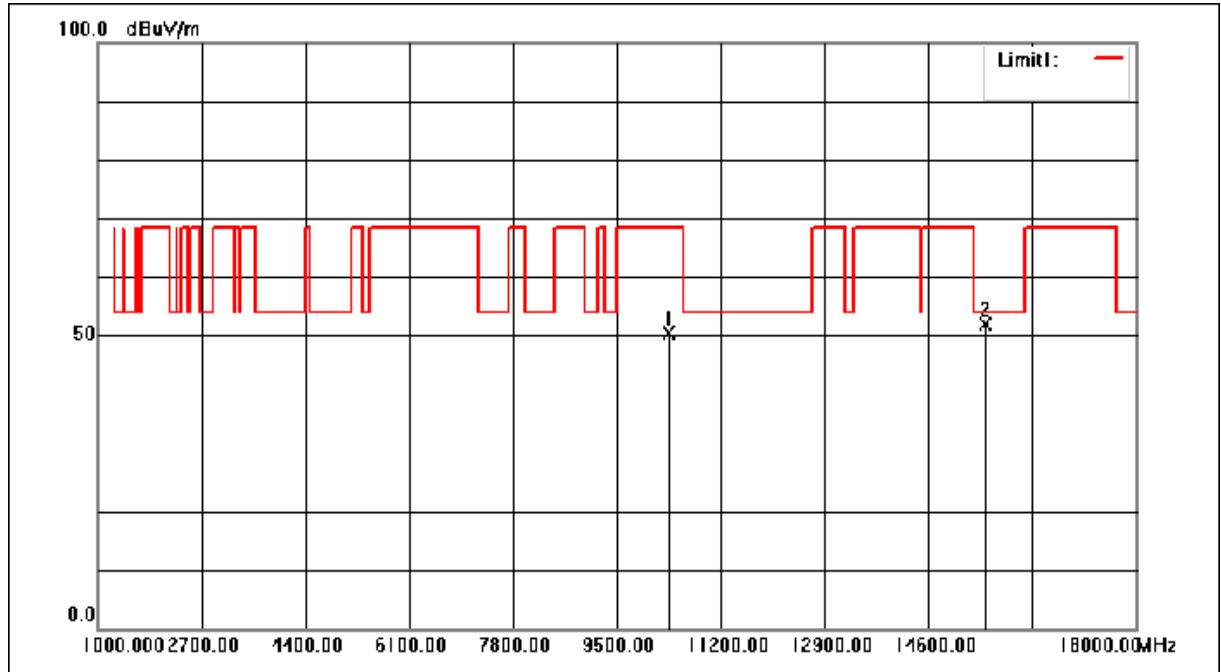
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Mode:h; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.15	0.16	50.31	68.30	-17.99	peak
2	15540.000	46.23	5.73	51.96	54.00	-2.04	peak



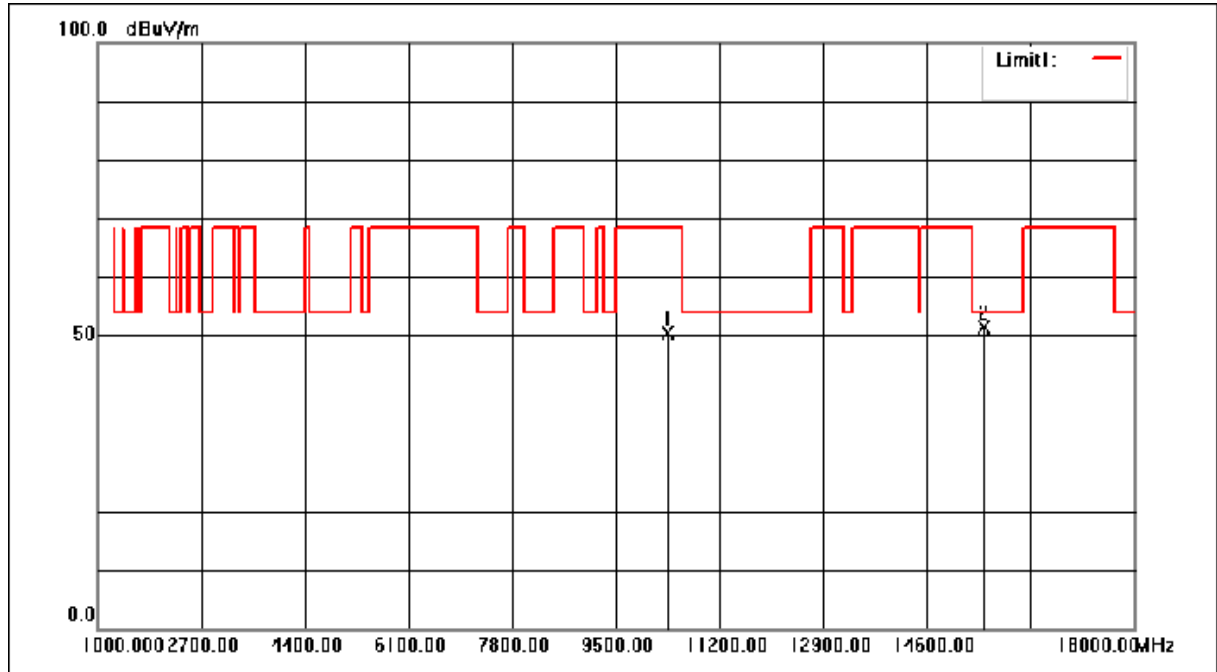
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Mode:h; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

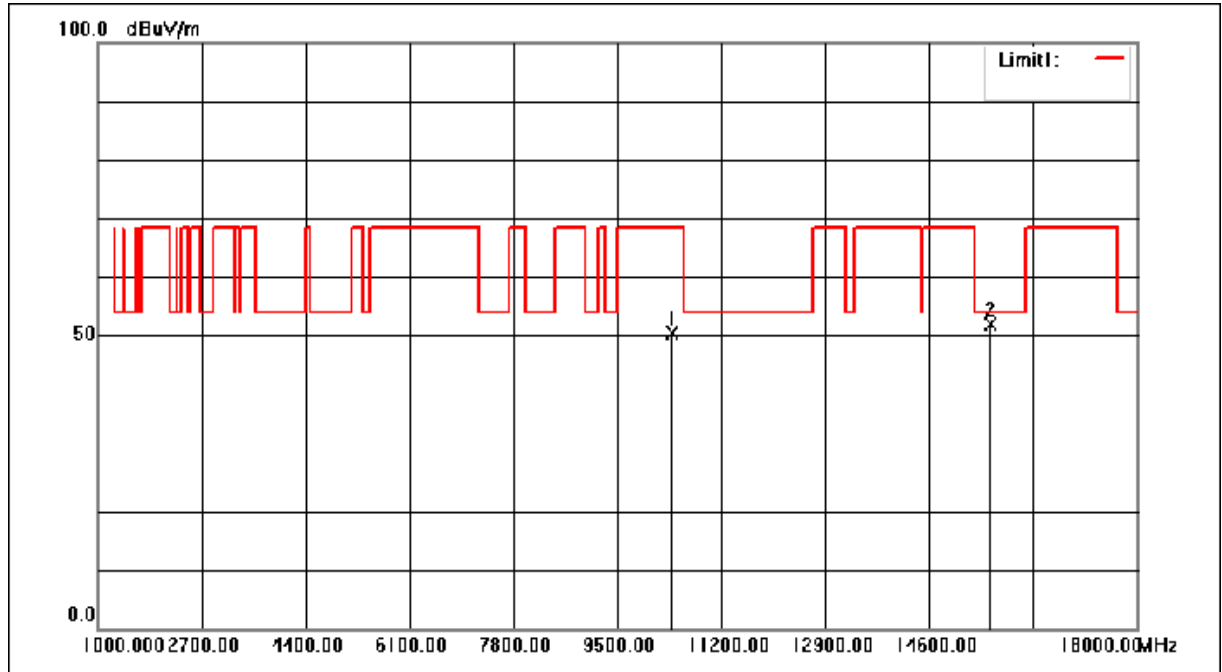


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.10	0.16	50.26	68.30	-18.04	peak
2	15540.000	45.74	5.73	51.47	54.00	-2.53	peak



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

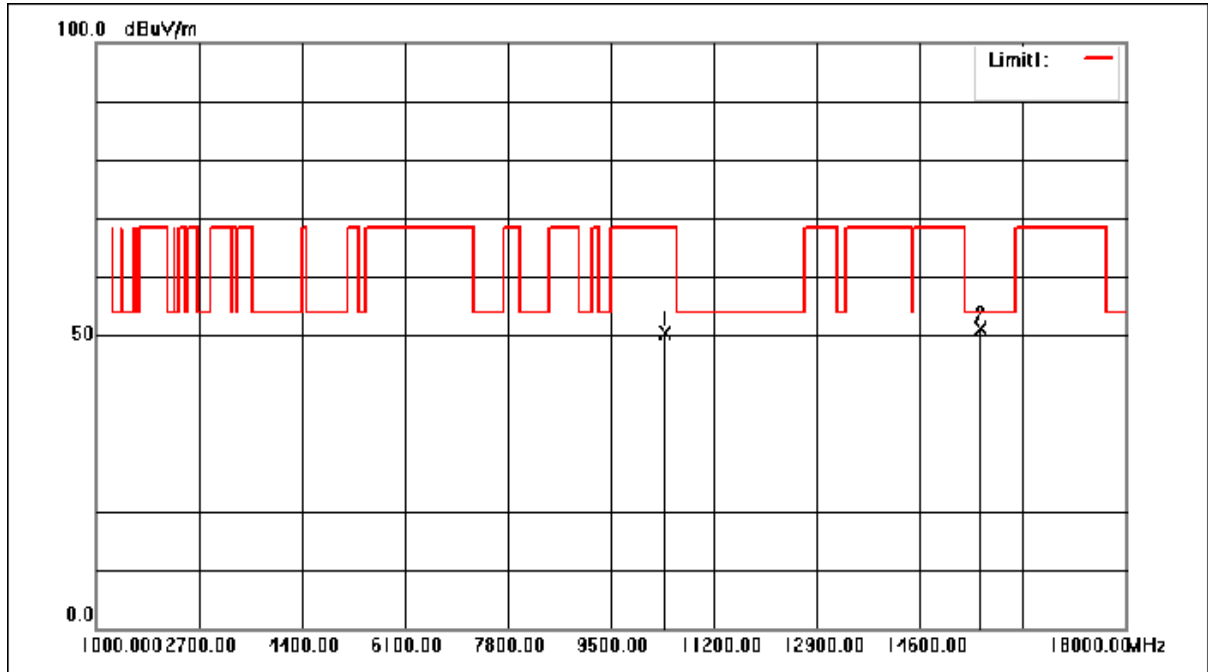


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.19	0.24	50.43	68.30	-17.87	peak
2	15600.000	46.00	5.85	51.85	54.00	-2.15	peak



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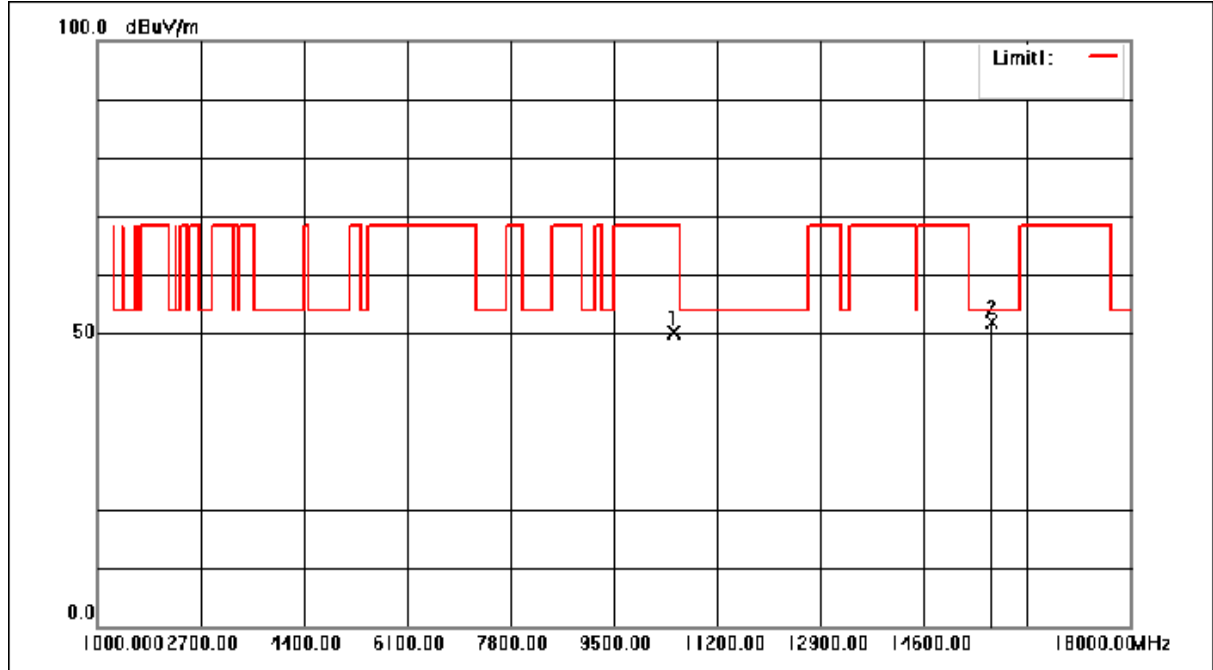
Mode:h; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.13	0.24	50.37	68.30	-17.93	peak
2	15600.000	45.31	5.85	51.16	54.00	-2.84	peak



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



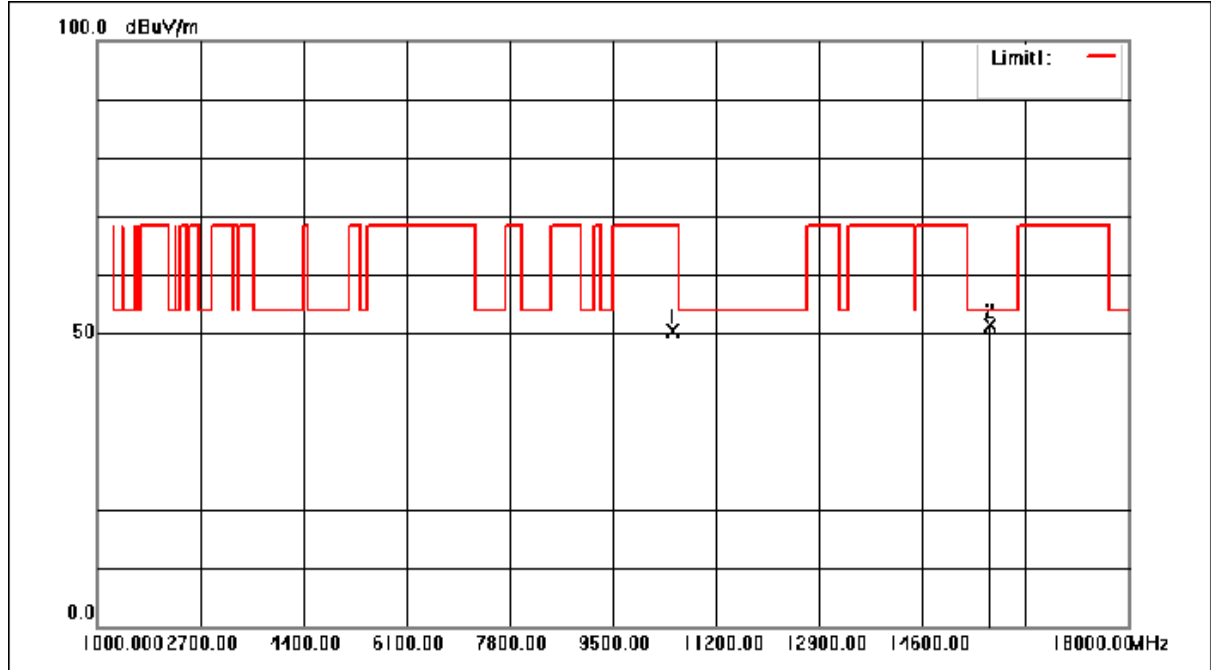
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.78	0.40	50.18	68.30	-18.12	peak
2	15720.000	45.86	6.10	51.96	54.00	-2.04	peak



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Mode:h; 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	49.94	0.40	50.34	68.30	-17.96	peak
2	15720.000	45.35	6.10	51.45	54.00	-2.55	peak

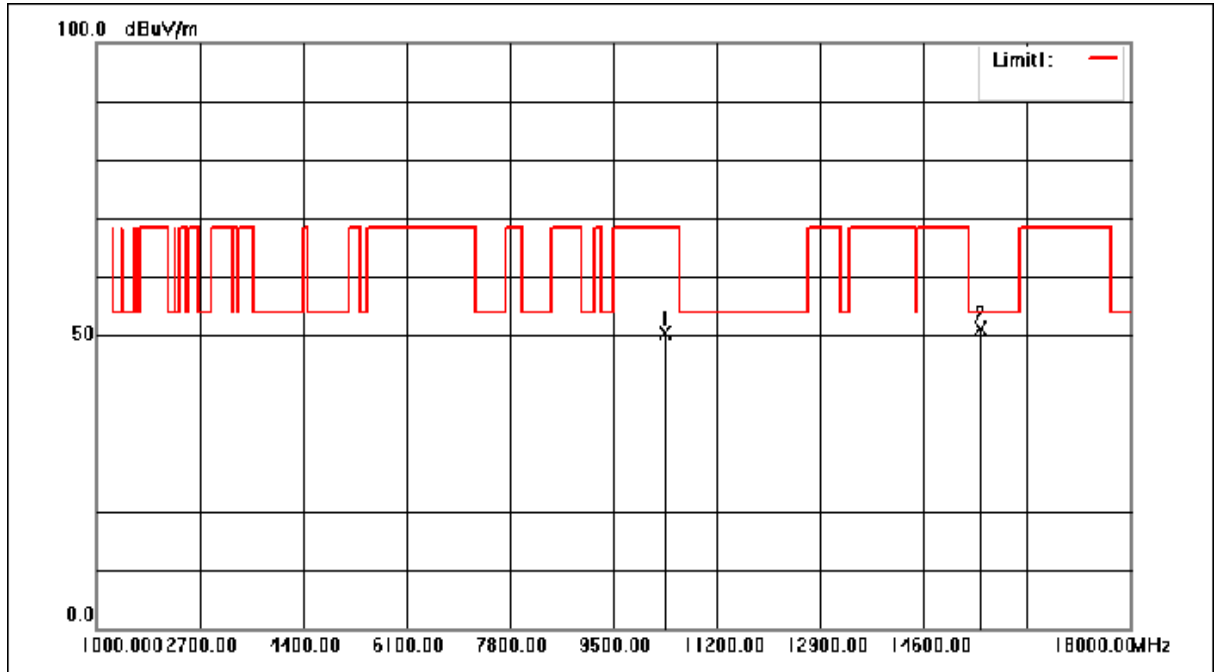


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Mode:h; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.18	0.16	50.34	68.30	-17.96	peak
2	15540.000	45.31	5.73	51.04	54.00	-2.96	peak



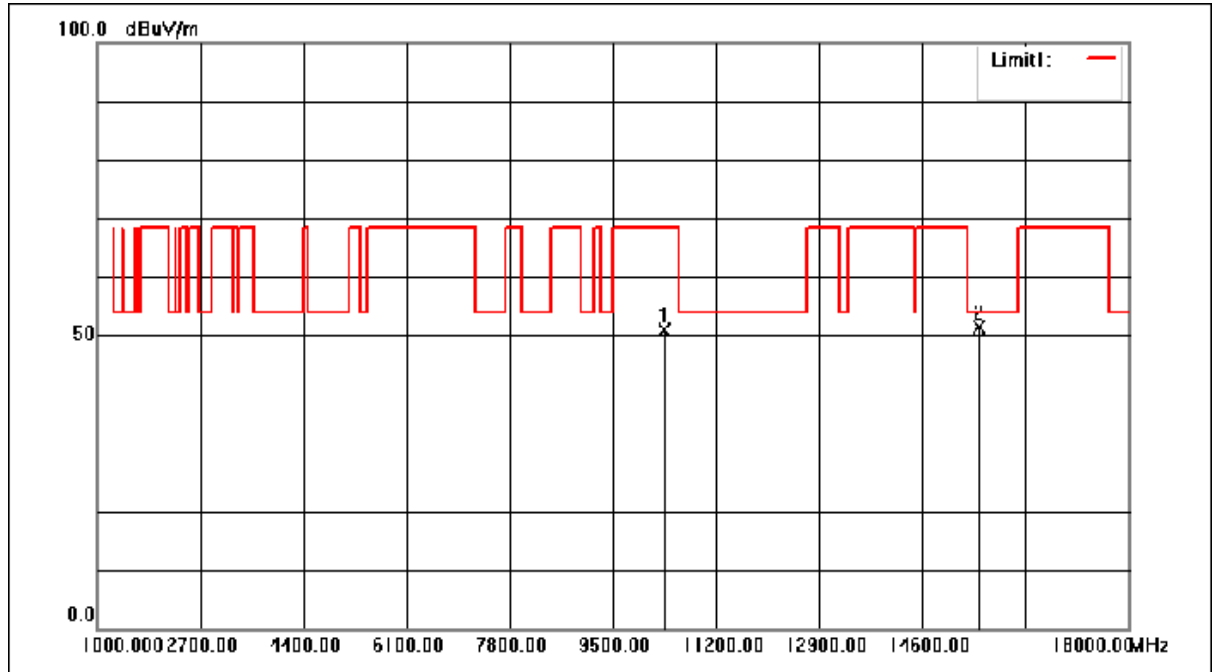
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Mode:h; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.62	0.16	50.78	68.30	-17.52	peak
2	15540.000	45.63	5.73	51.36	54.00	-2.64	peak

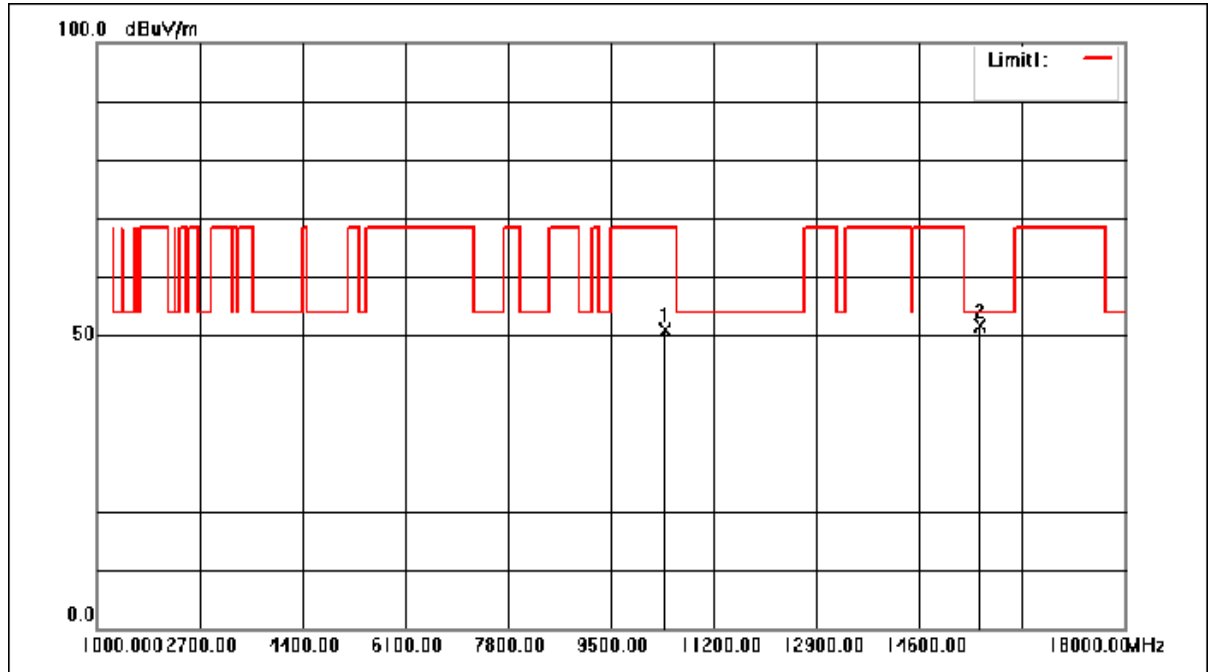


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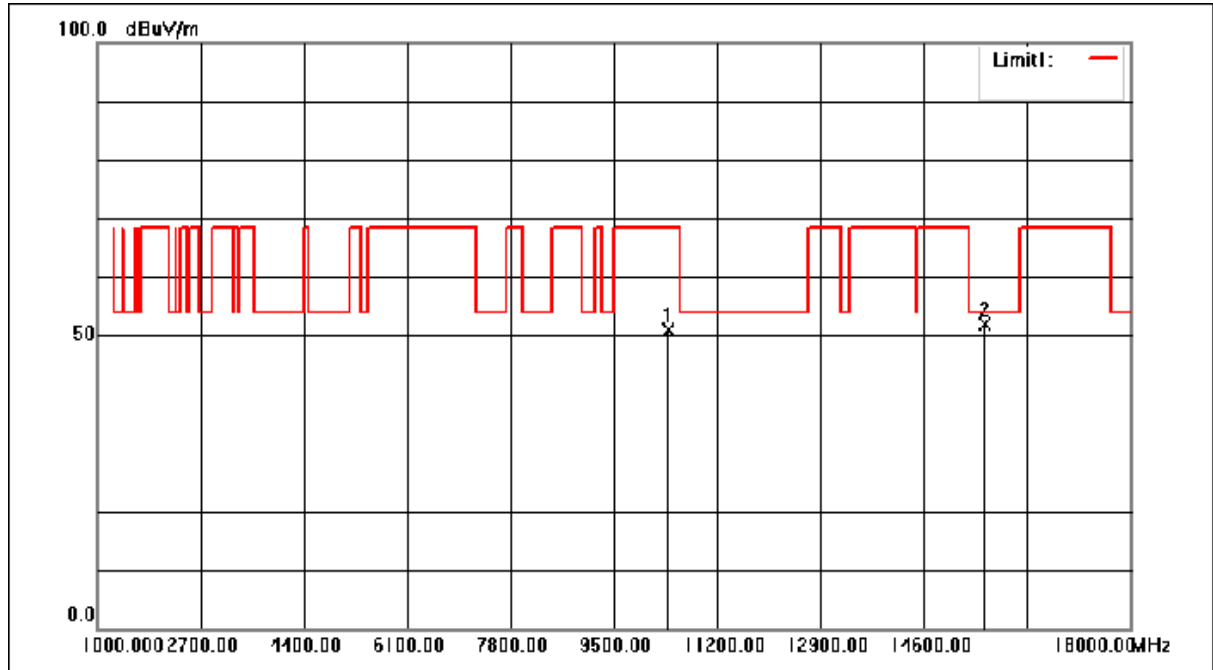


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.69	0.24	50.93	68.30	-17.37	peak
2	15600.000	45.69	5.85	51.54	54.00	-2.46	peak



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

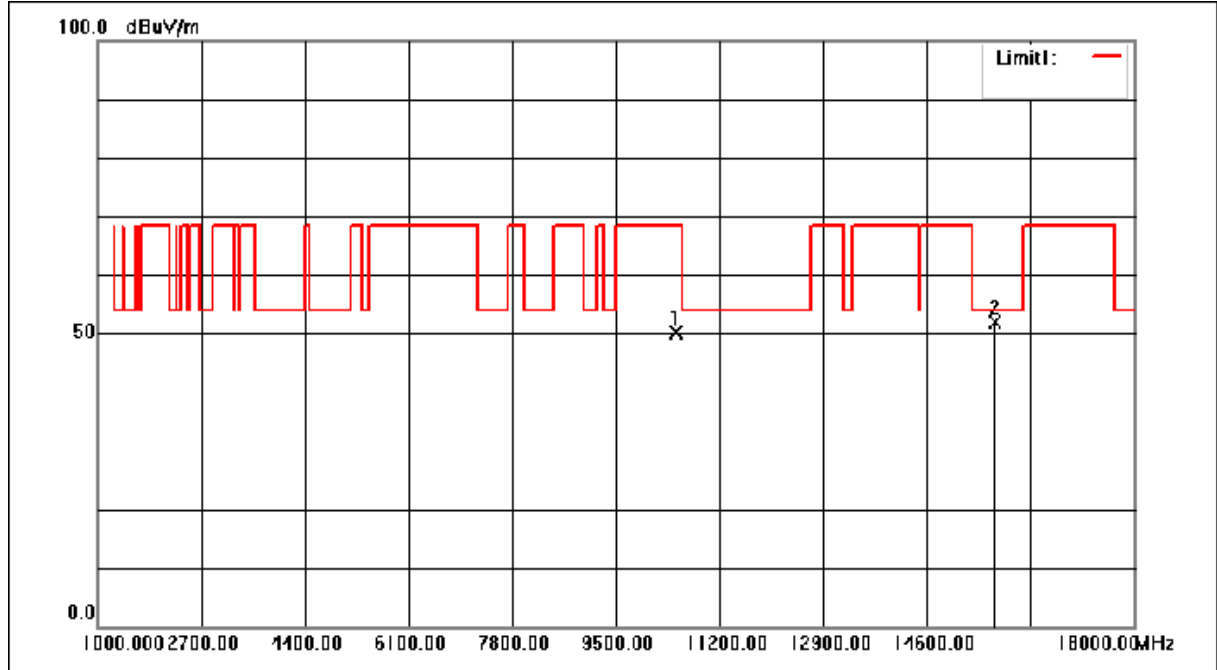


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.57	0.24	50.81	68.30	-17.49	peak
2	15600.000	46.08	5.85	51.93	54.00	-2.07	peak



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Mode:h; 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	49.83	0.40	50.23	68.30	-18.07	peak
2	15720.000	45.85	6.10	51.95	54.00	-2.05	peak



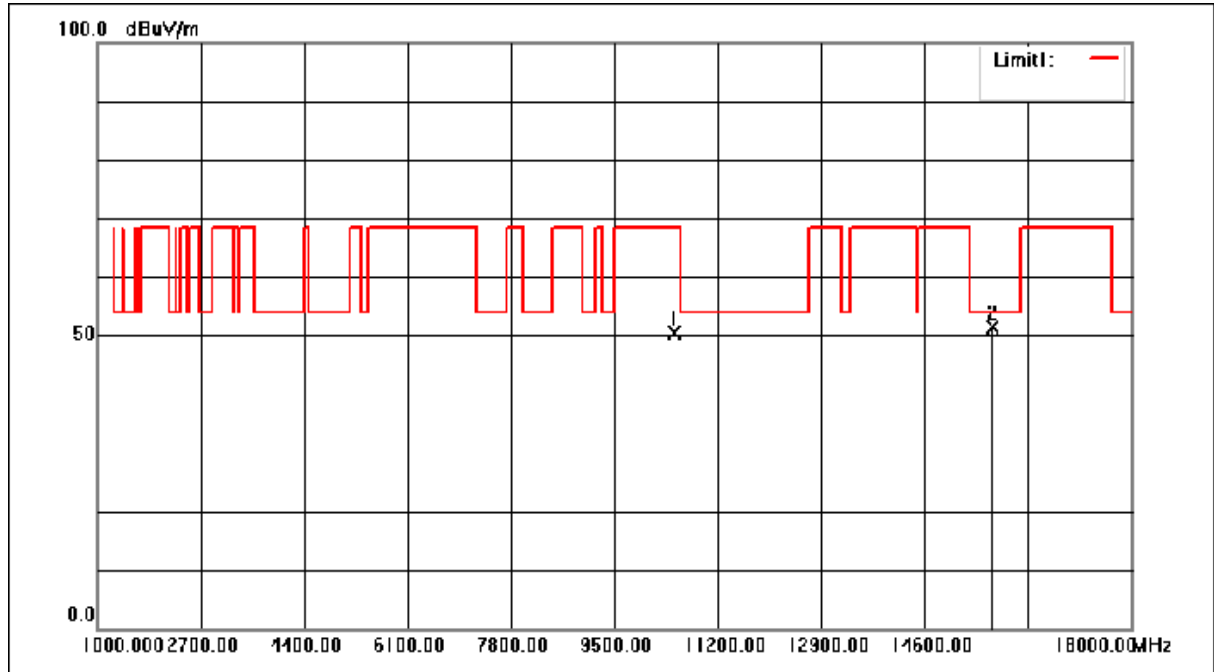
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Mode:h; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

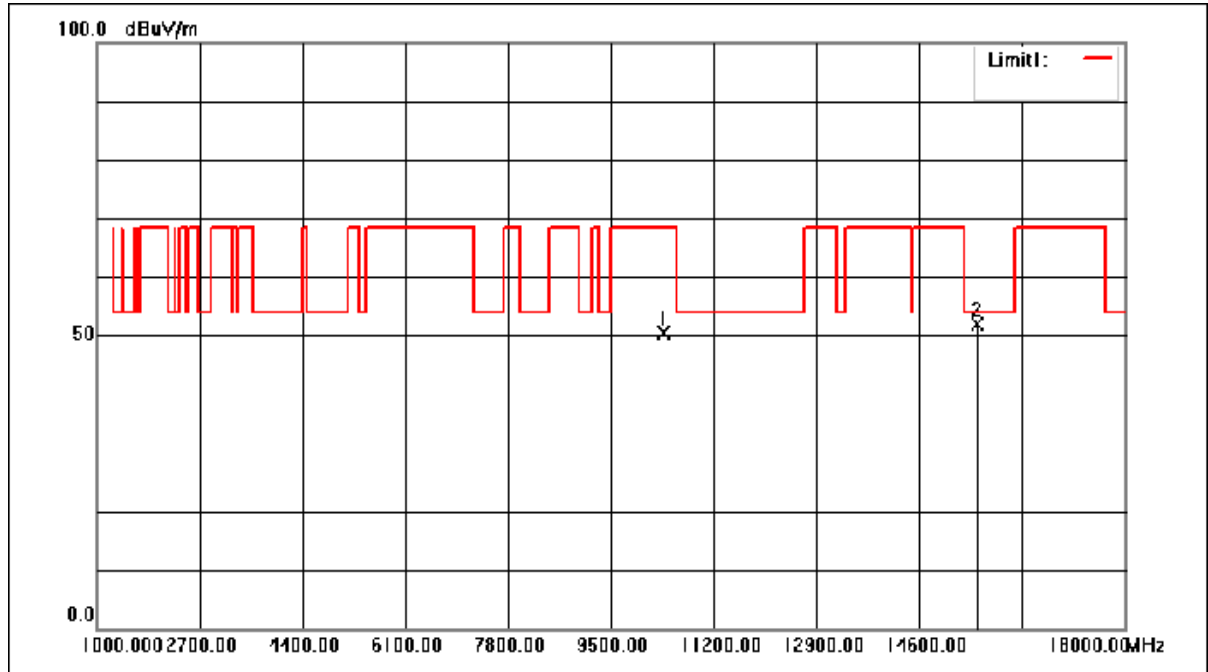


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.95	0.40	50.35	68.30	-17.95	peak
2	15720.000	45.24	6.10	51.34	54.00	-2.66	peak



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



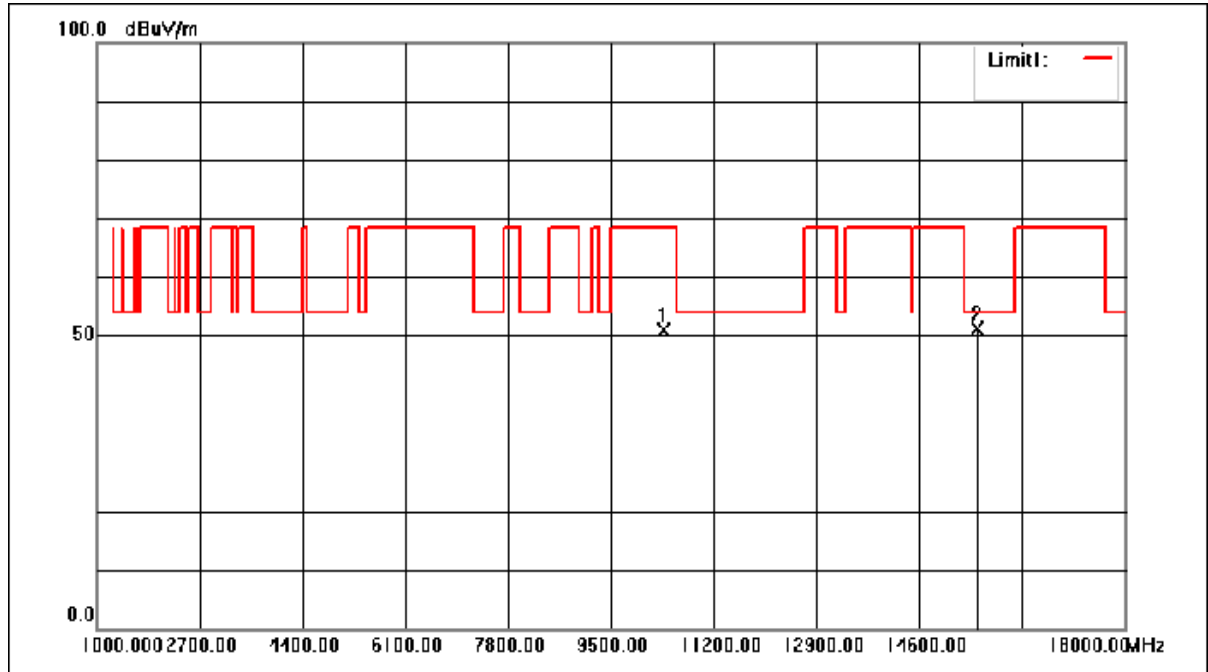
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.23	0.20	50.43	68.30	-17.87	peak
2	15570.000	46.11	5.79	51.90	54.00	-2.10	peak



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

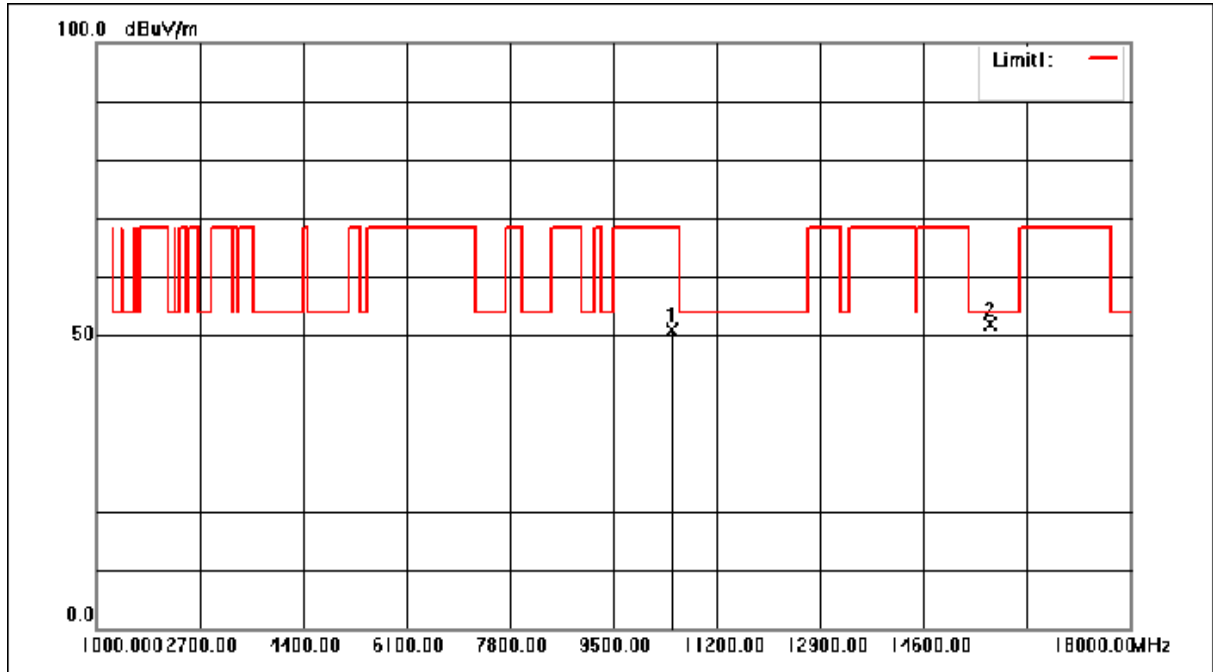


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.74	0.20	50.94	68.30	-17.36	peak
2	15570.000	45.29	5.79	51.08	54.00	-2.92	peak



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Mode:h; 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	50.53	0.36	50.89	68.30	-17.41	peak
2	15690.000	45.78	6.04	51.82	54.00	-2.18	peak

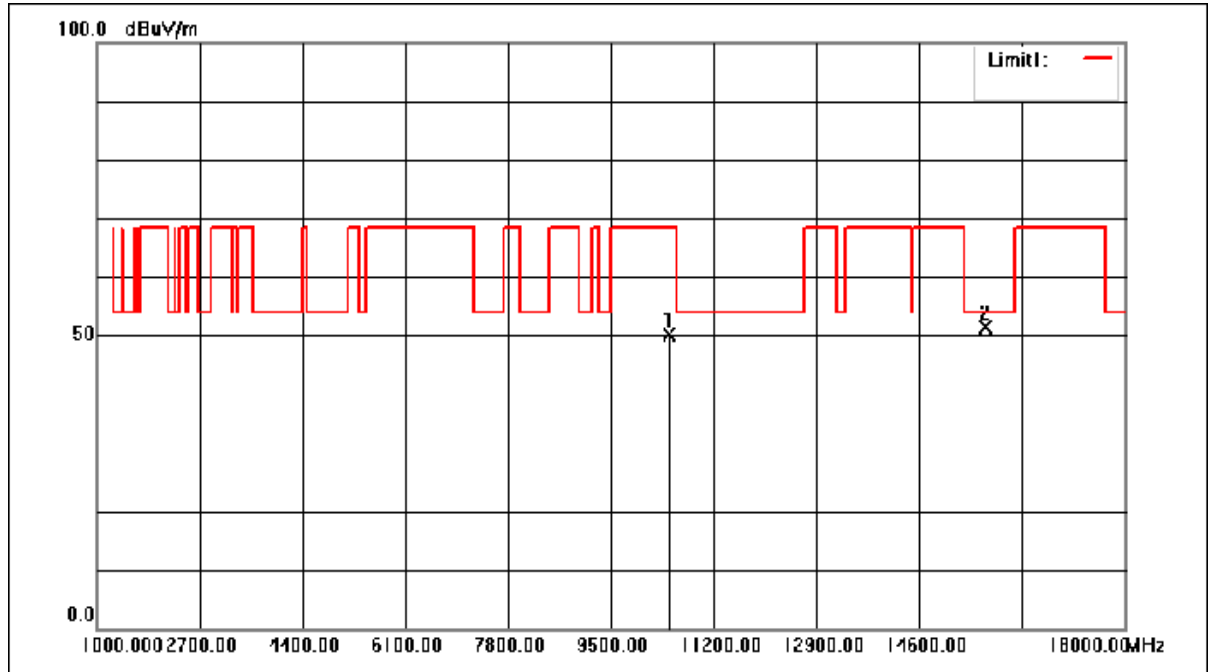


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Mode:h; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

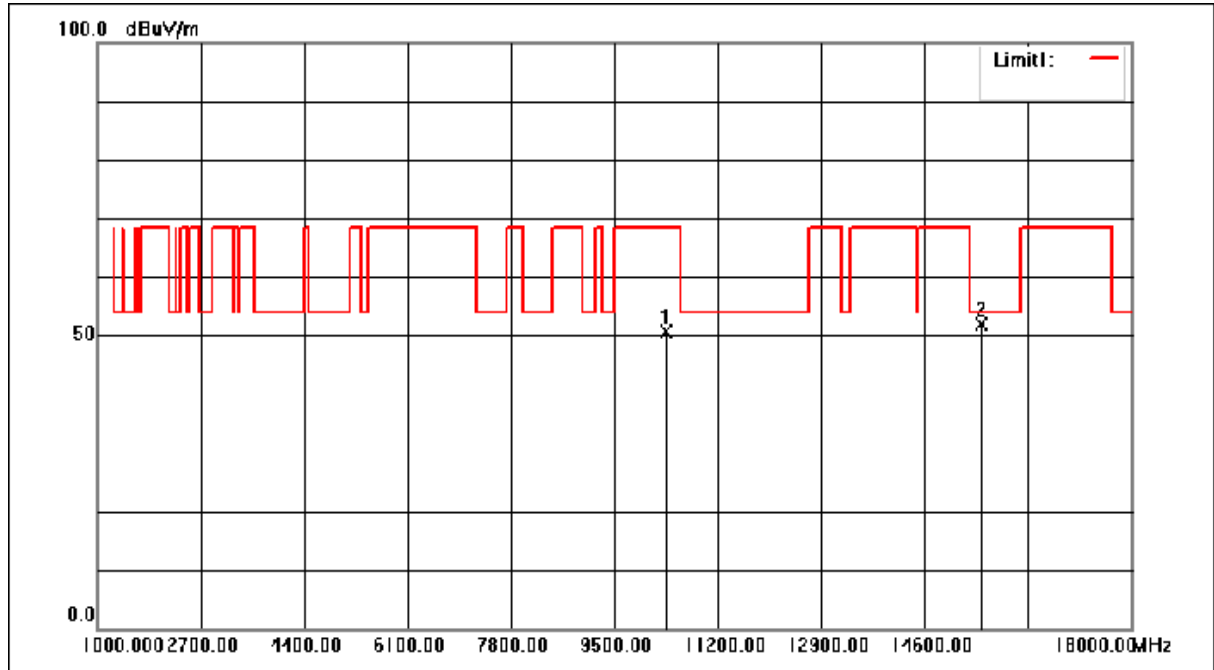


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	49.81	0.36	50.17	68.30	-18.13	peak
2	15690.000	45.42	6.04	51.46	54.00	-2.54	peak



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

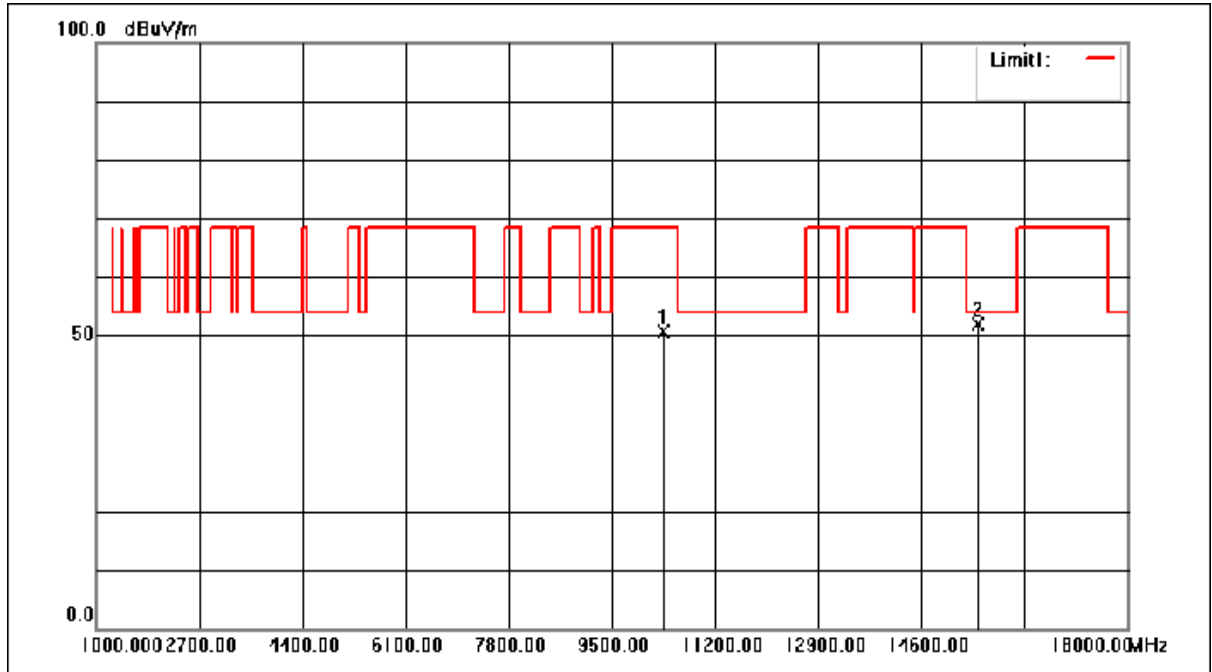


No.	Frequency (MHz)	Reading (dBUV)	Correction factor(dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	10360.000	50.47	0.16	50.63	68.30	-17.67	peak
2	15540.000	46.13	5.73	51.86	54.00	-2.14	peak



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Mode:h; 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	50.55	0.16	50.71	68.30	-17.59	peak
2	15540.000	46.25	5.73	51.98	54.00	-2.02	peak

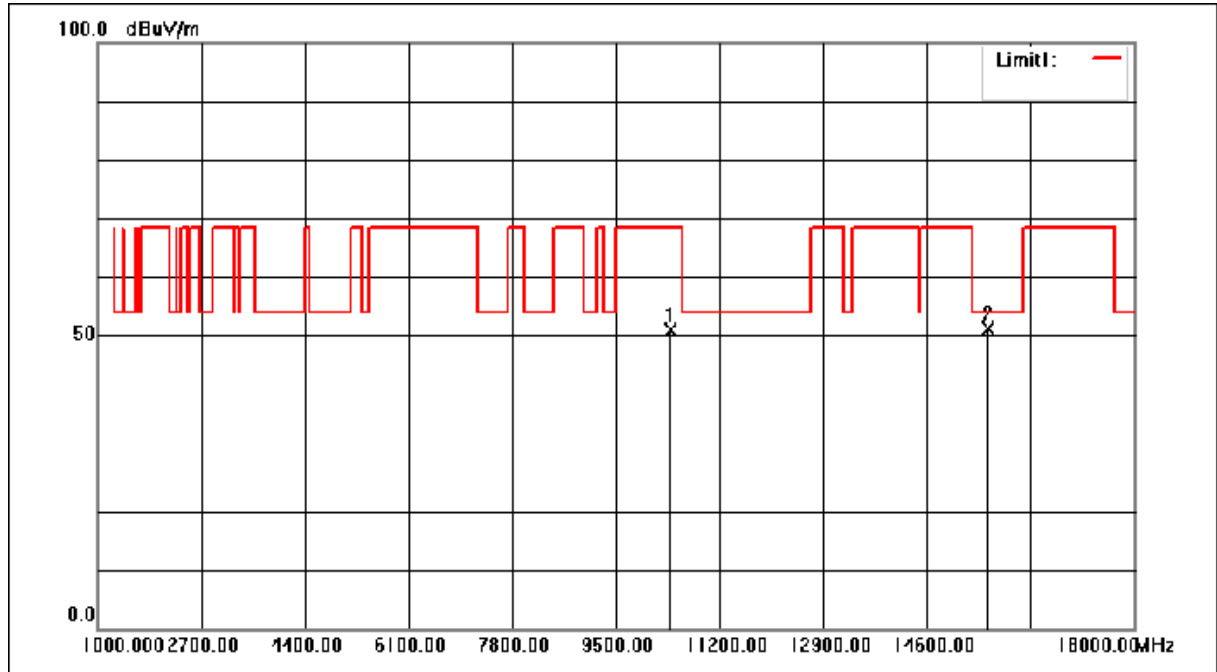


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Mode:h; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.55	0.24	50.79	68.30	-17.51	peak
2	15600.000	45.29	5.85	51.14	54.00	-2.86	peak



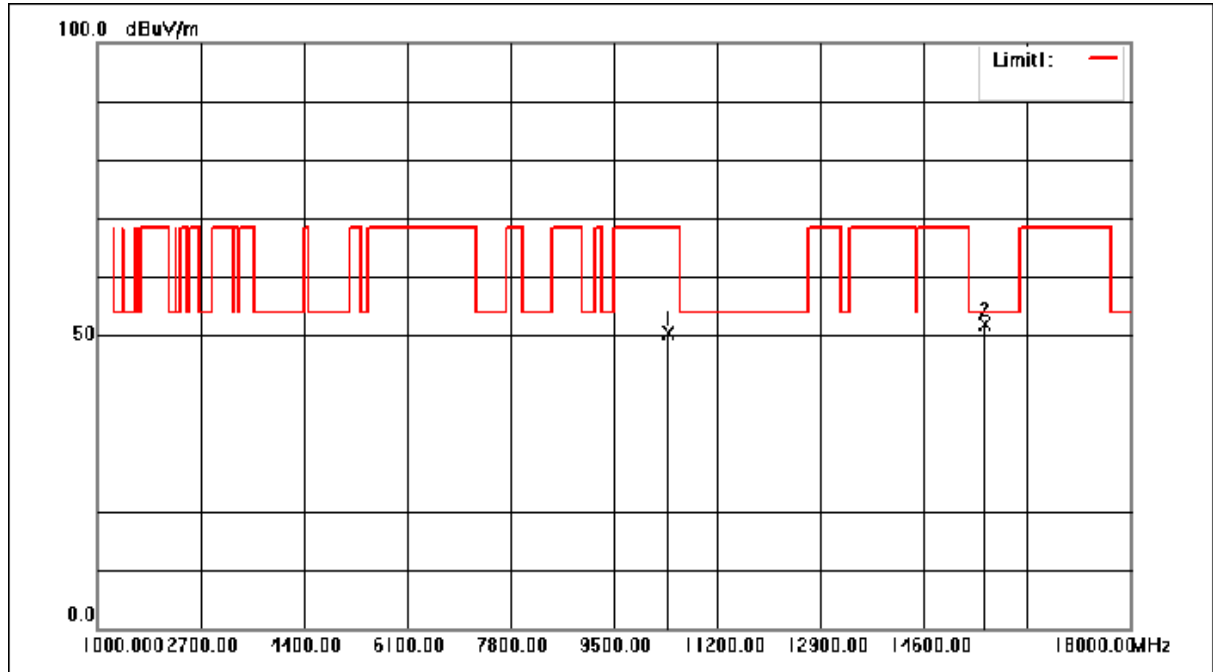
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Mode:h; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

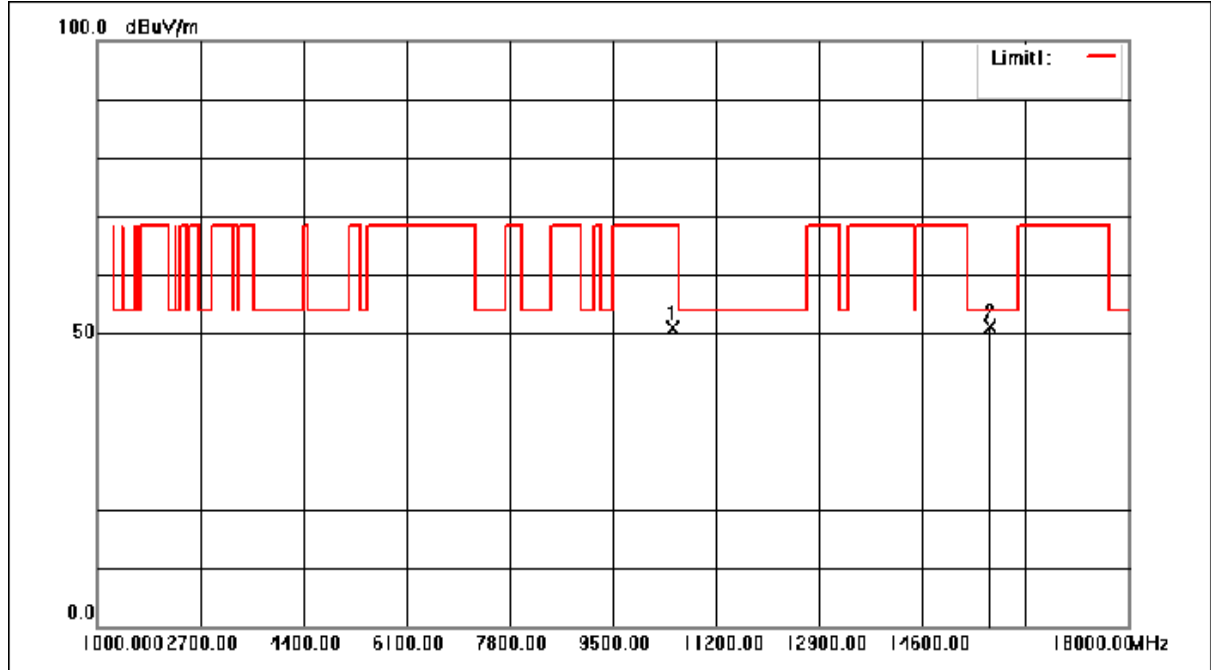


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.13	0.24	50.37	68.30	-17.93	peak
2	15600.000	46.04	5.85	51.89	54.00	-2.11	peak



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Mode:h; 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	50.44	0.40	50.84	68.30	-17.46	peak
2	15720.000	45.15	6.10	51.25	54.00	-2.75	peak



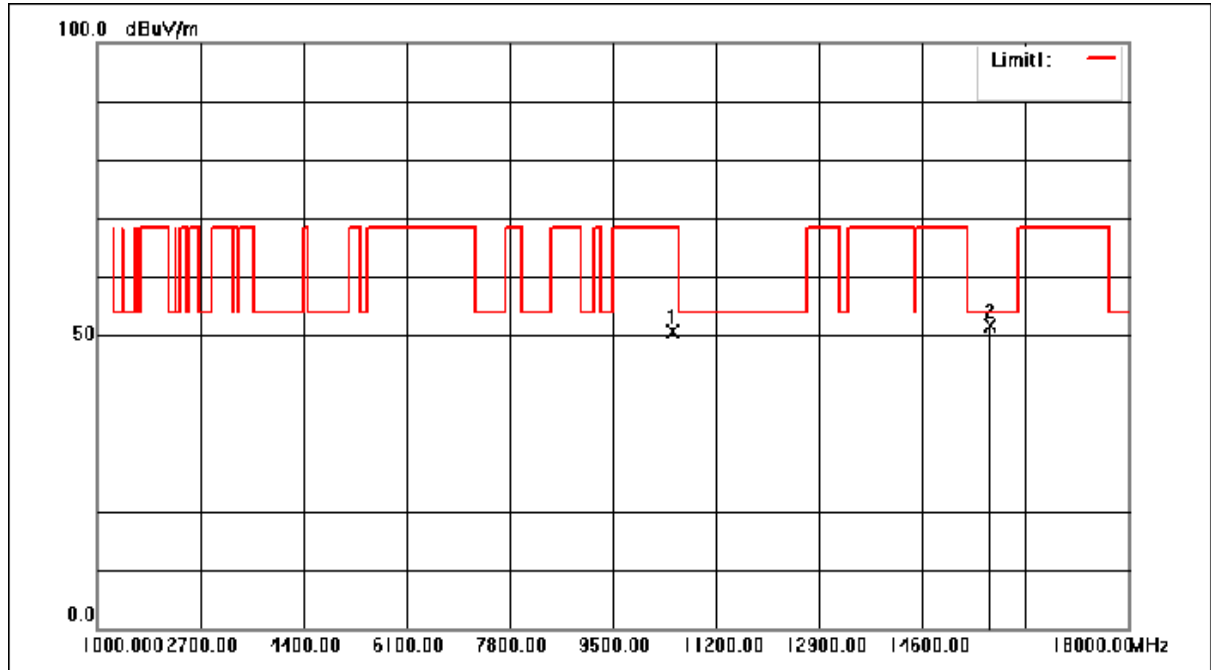
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Mode:h; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	50.27	0.40	50.67	68.30	-17.63	peak
2	15720.000	45.48	6.10	51.58	54.00	-2.42	peak

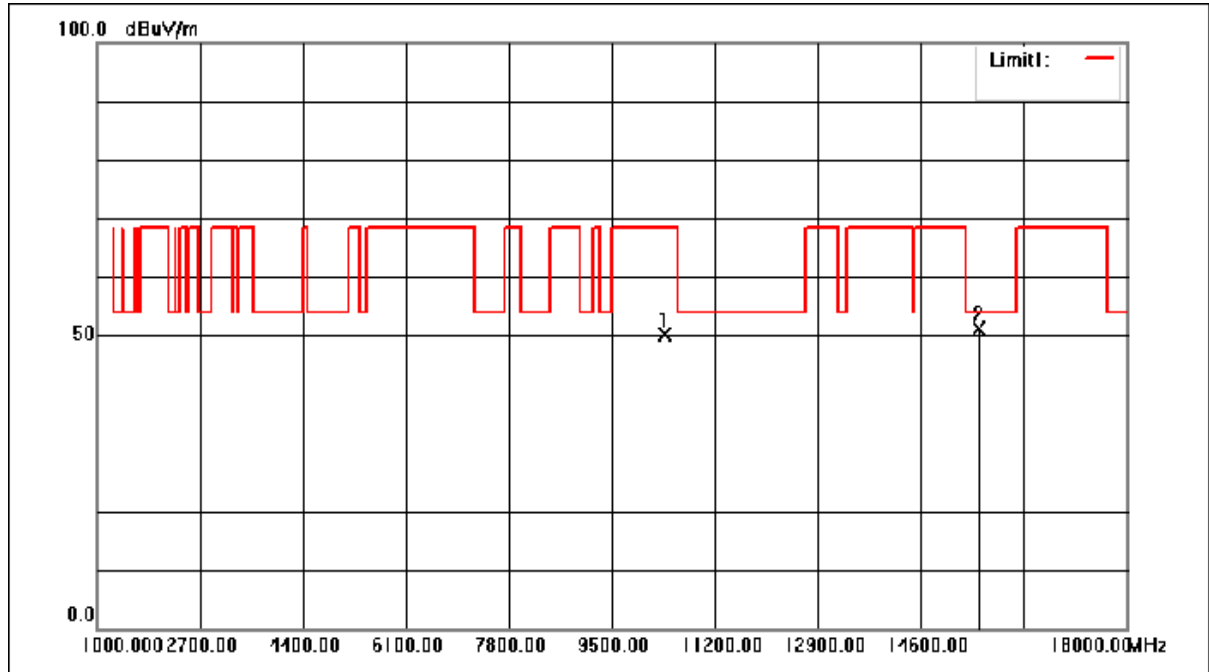


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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Mode:h; 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	49.92	0.20	50.12	68.30	-18.18	peak
2	15570.000	45.32	5.79	51.11	54.00	-2.89	peak

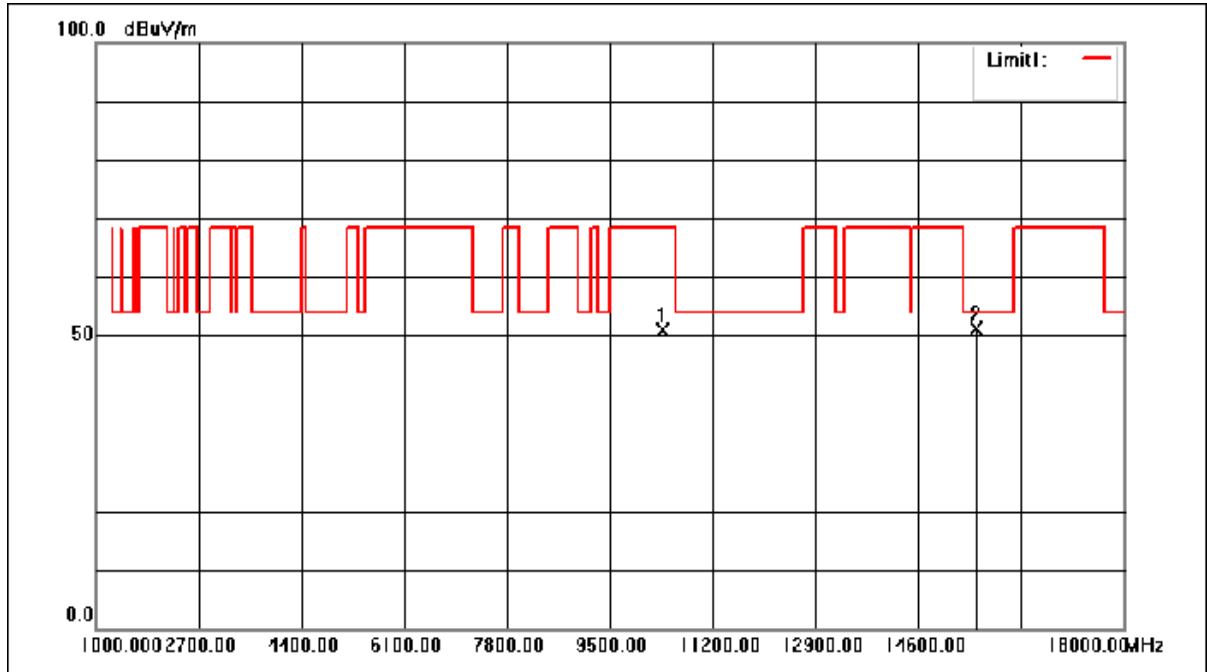


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Mode:h; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

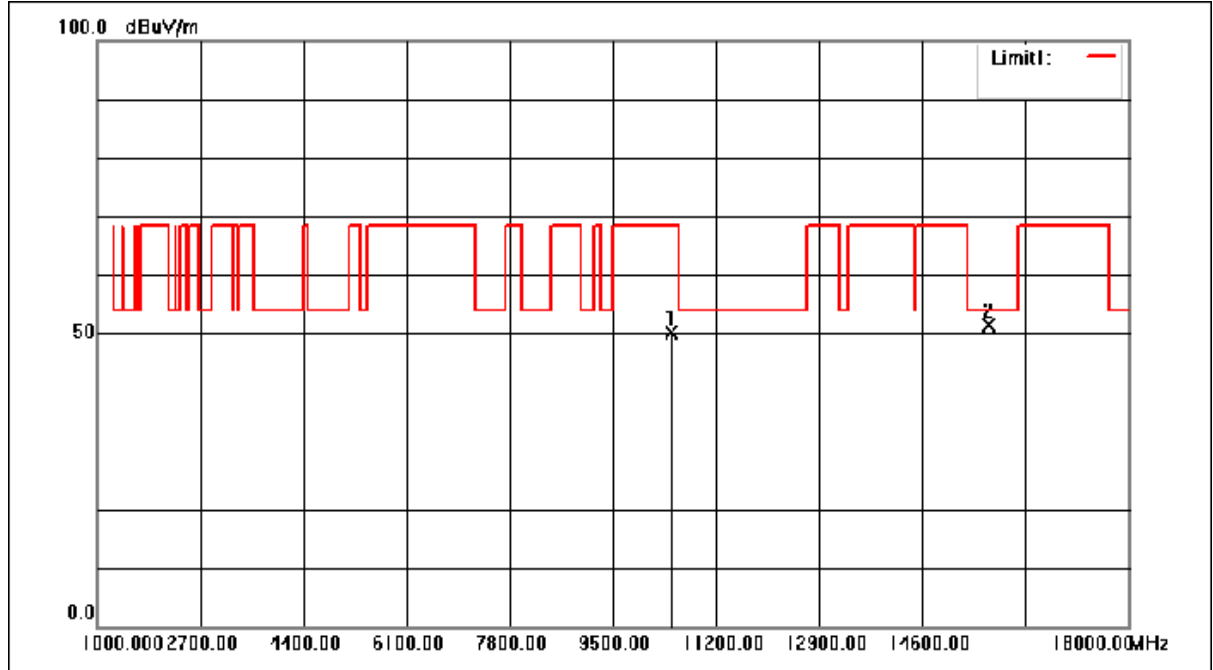


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.56	0.20	50.76	68.30	-17.54	peak
2	15570.000	45.42	5.79	51.21	54.00	-2.79	peak



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Mode:h; 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	49.79	0.36	50.15	68.30	-18.15	peak
2	15690.000	45.25	6.04	51.29	54.00	-2.71	peak

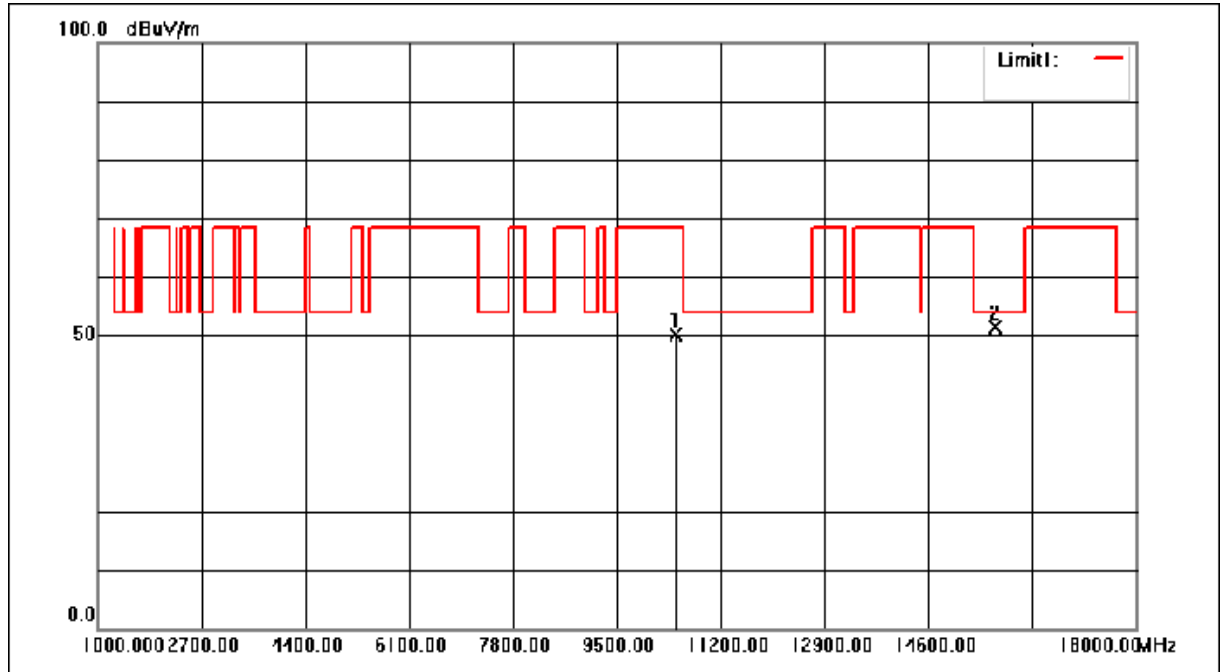


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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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

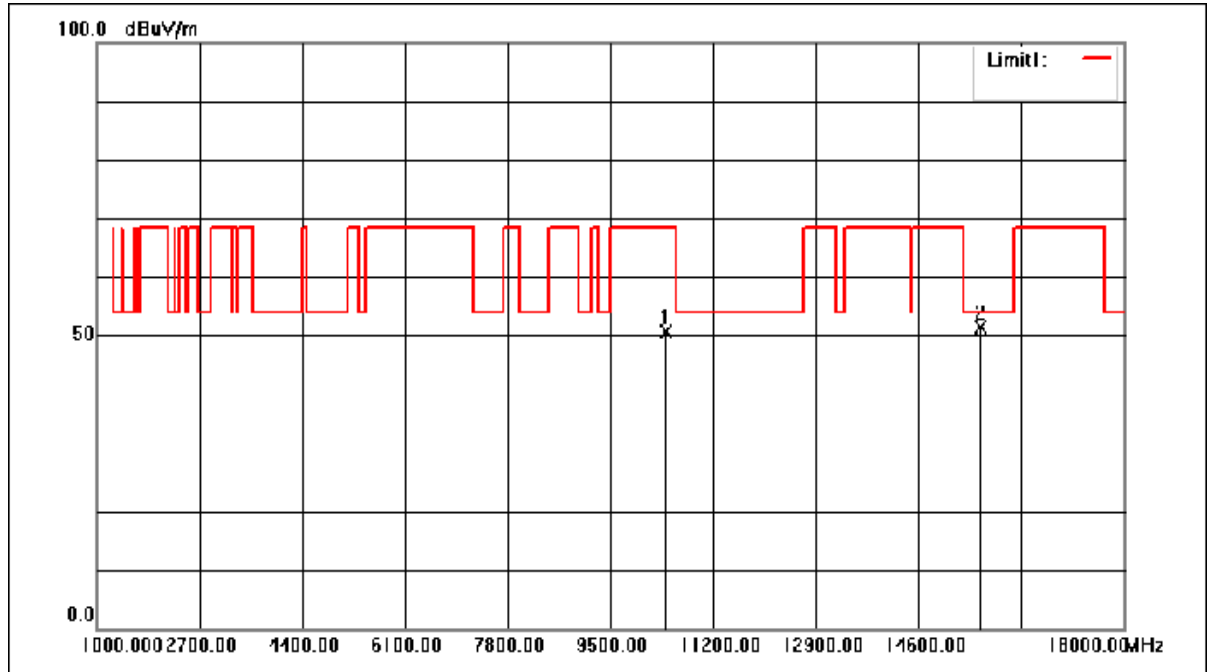


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	49.73	0.36	50.09	68.30	-18.21	peak
2	15690.000	45.45	6.04	51.49	54.00	-2.51	peak



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

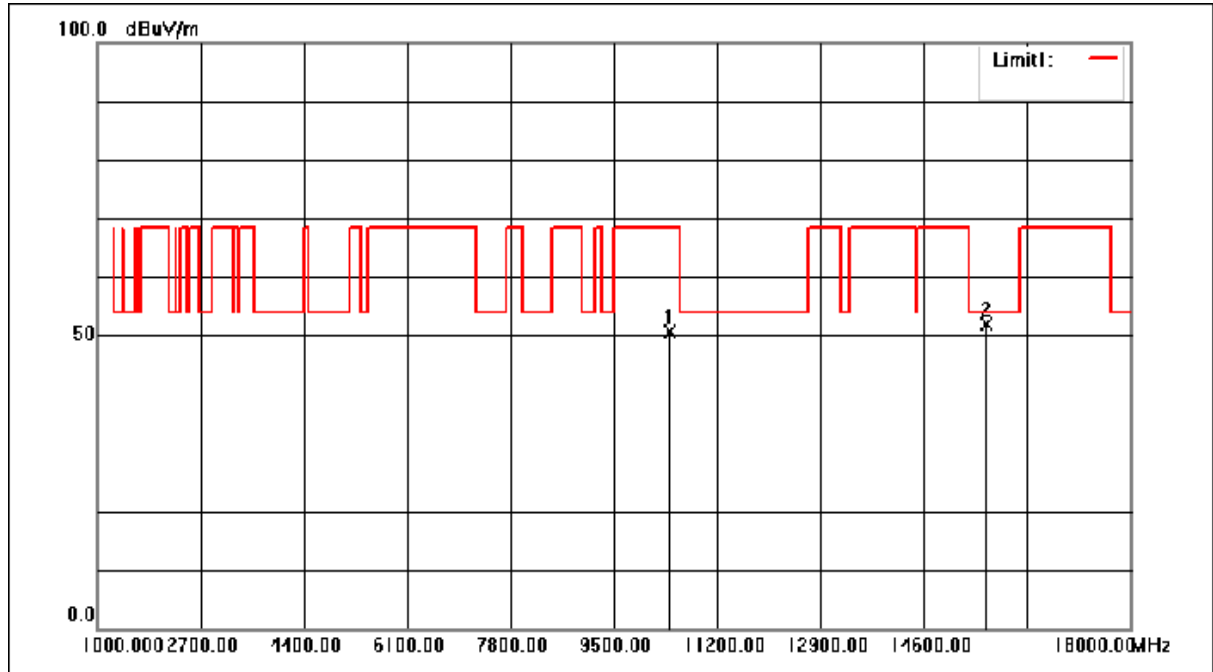


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	50.27	0.28	50.55	68.30	-17.75	peak
2	15630.000	45.45	5.92	51.37	54.00	-2.63	peak



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Mode:h; 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	50.47	0.28	50.75	68.30	-17.55	peak
2	15630.000	46.05	5.92	51.97	54.00	-2.03	peak

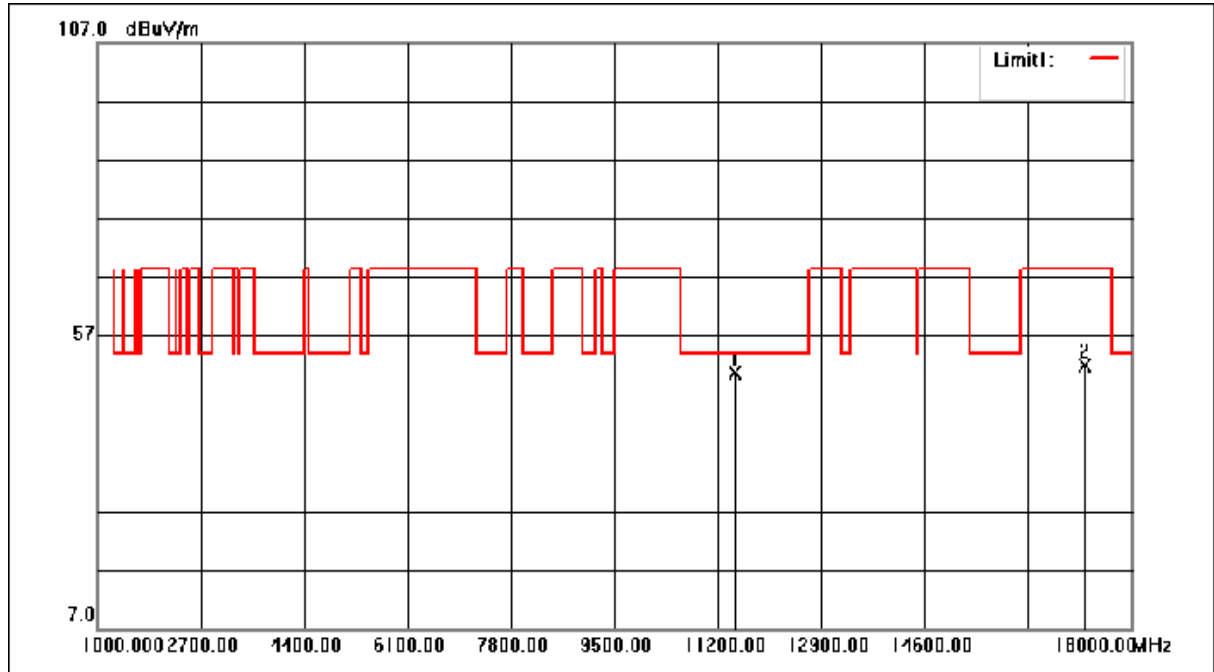


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Mode:i; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



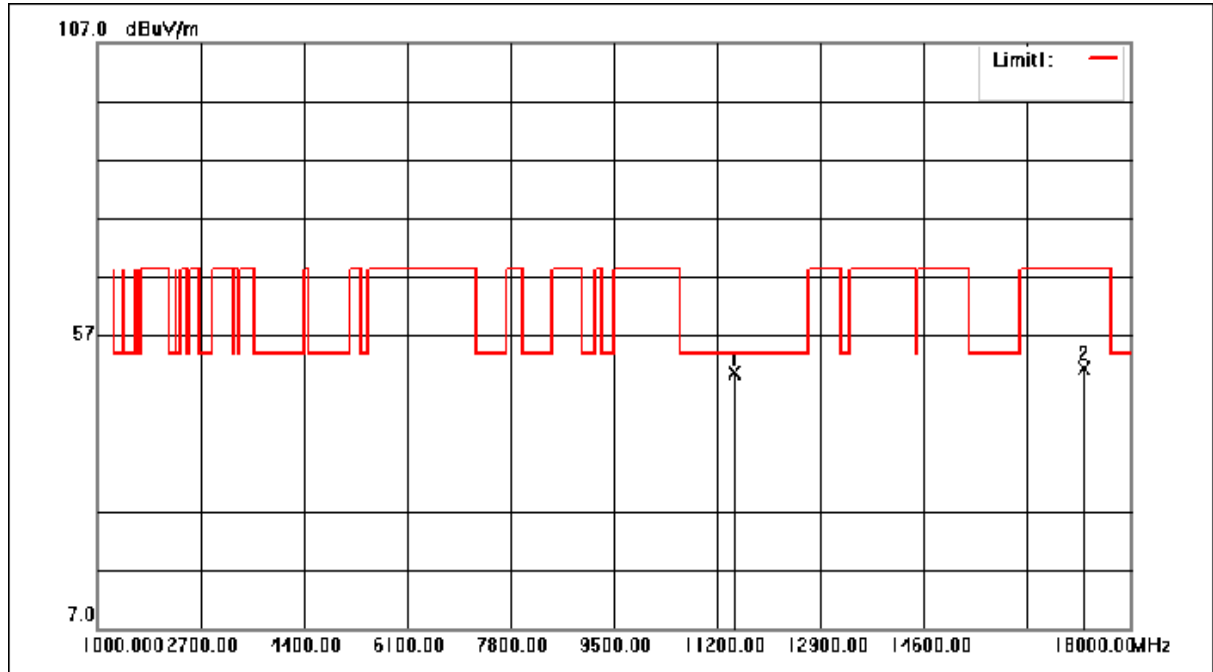
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.59	0.94	50.53	54.00	-3.47	peak
2	17235.000	42.82	9.05	51.87	68.30	-16.43	peak



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

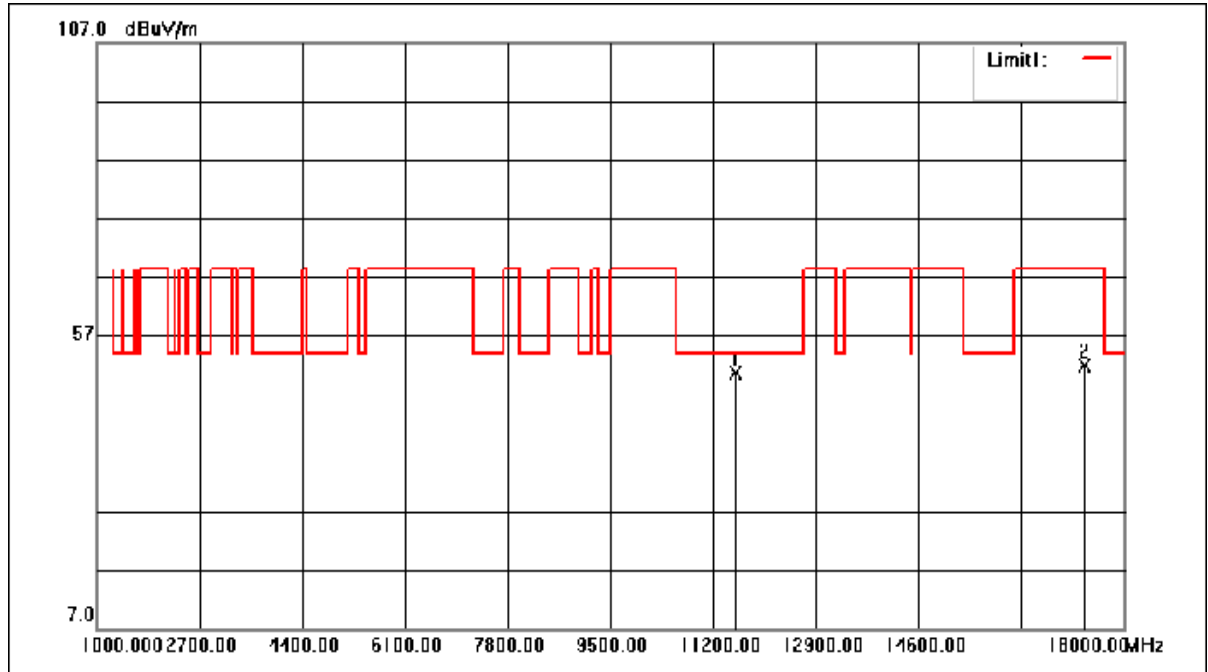


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.80	0.94	50.74	54.00	-3.26	peak
2	17235.000	42.26	9.05	51.31	68.30	-16.99	peak



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

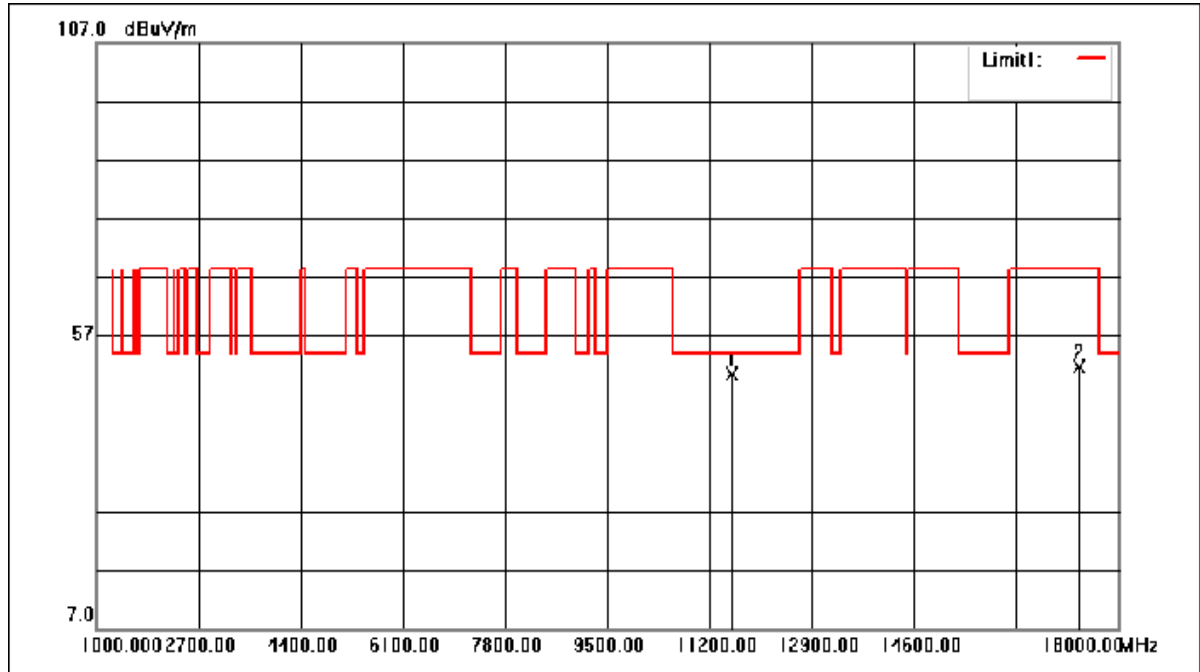


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.34	1.18	50.52	54.00	-3.48	peak
2	17355.000	42.98	8.98	51.96	68.30	-16.34	peak



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

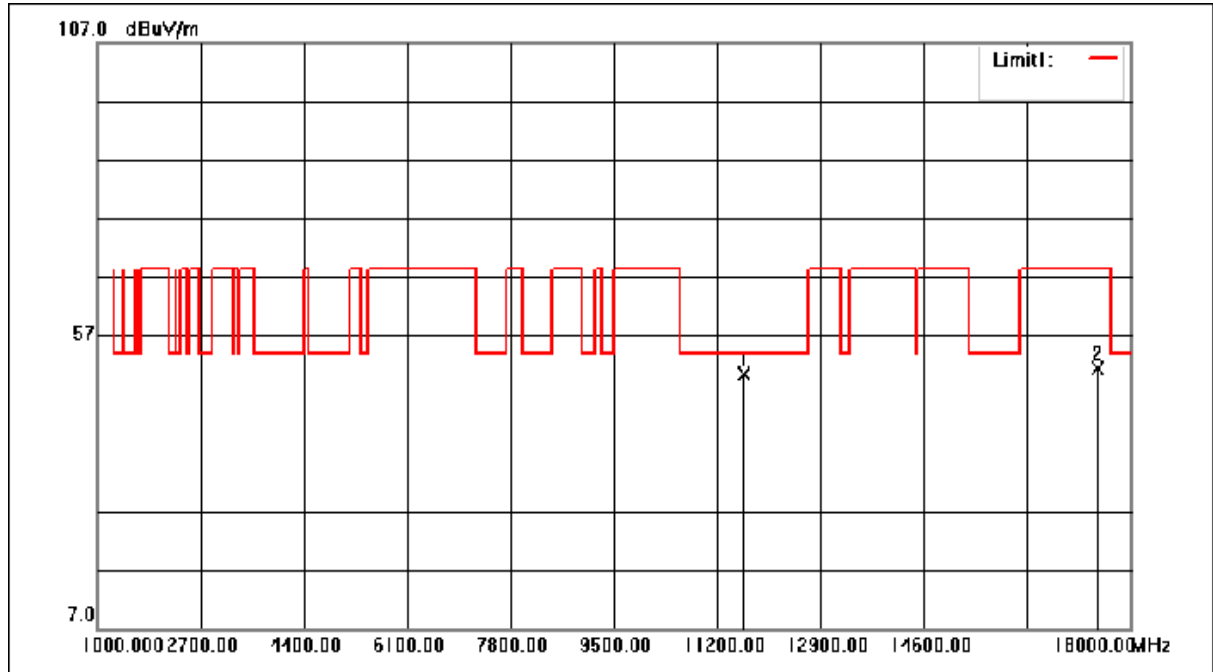


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.23	1.18	50.41	54.00	-3.59	peak
2	17355.000	42.77	8.98	51.75	68.30	-16.55	peak



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

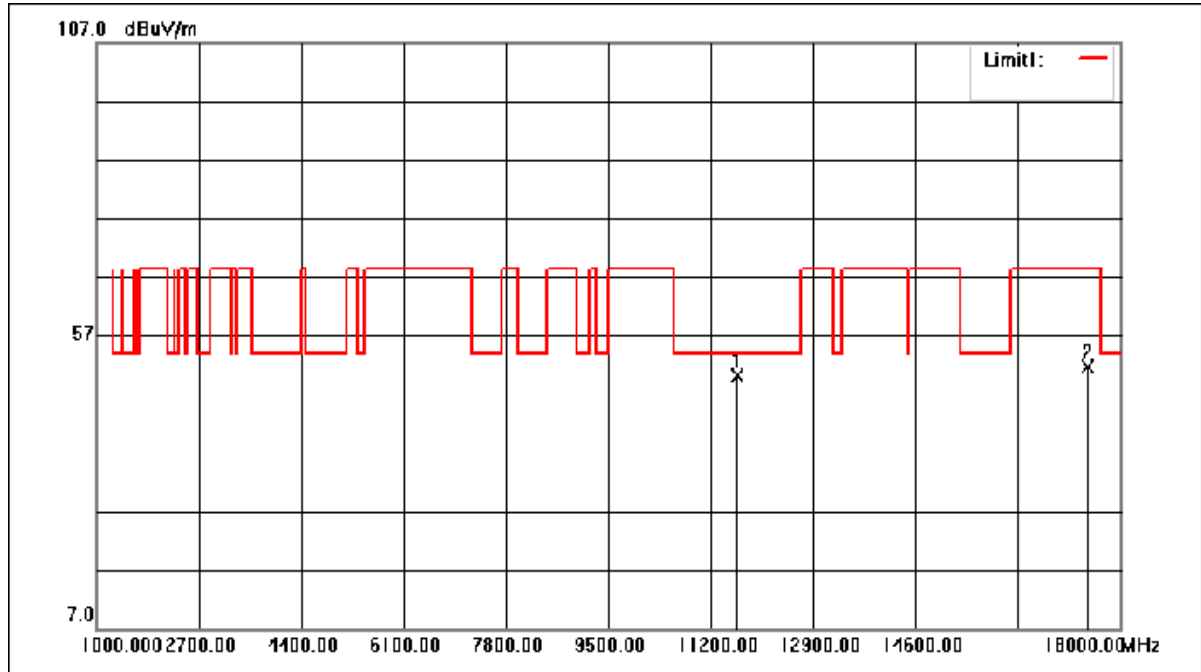


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.91	1.45	50.36	54.00	-3.64	peak
2	17475.000	42.60	8.90	51.50	68.30	-16.80	peak



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

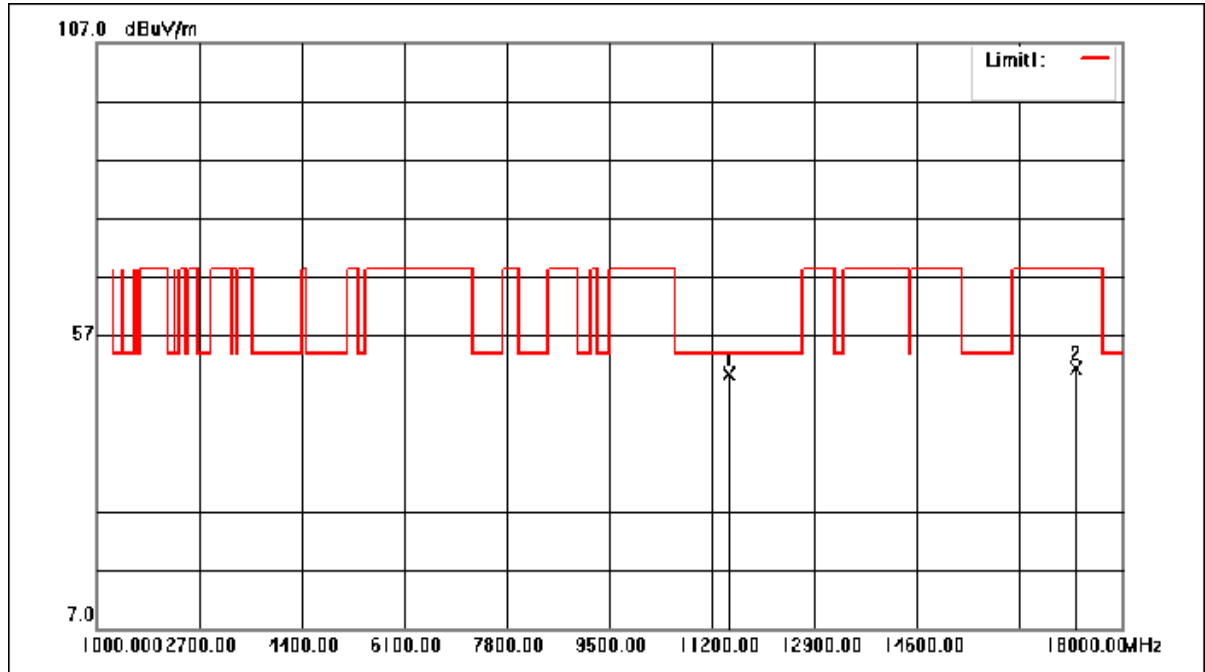


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.72	1.45	50.17	54.00	-3.83	peak
2	17475.000	42.69	8.90	51.59	68.30	-16.71	peak



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

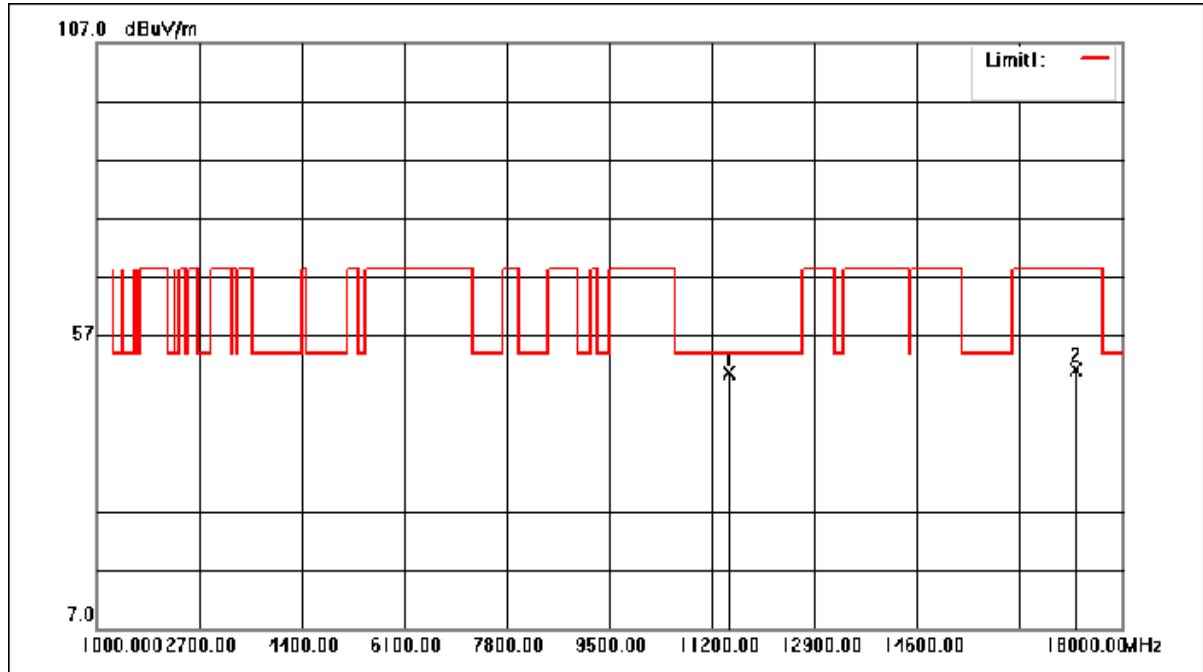


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.52	0.94	50.46	54.00	-3.54	peak
2	17235.000	42.25	9.05	51.30	68.30	-17.00	peak



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

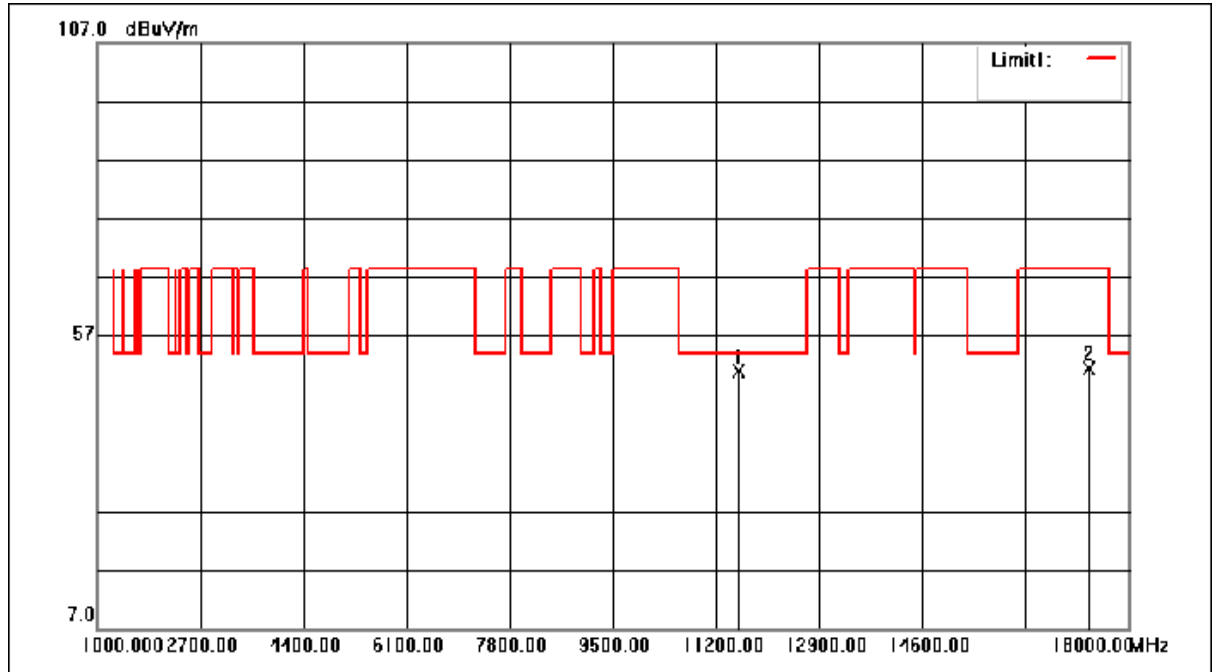


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.77	0.94	50.71	54.00	-3.29	peak
2	17235.000	42.13	9.05	51.18	68.30	-17.12	peak



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Mode:i; 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	49.64	1.18	50.82	54.00	-3.18	peak
2	17355.000	42.30	8.98	51.28	68.30	-17.02	peak



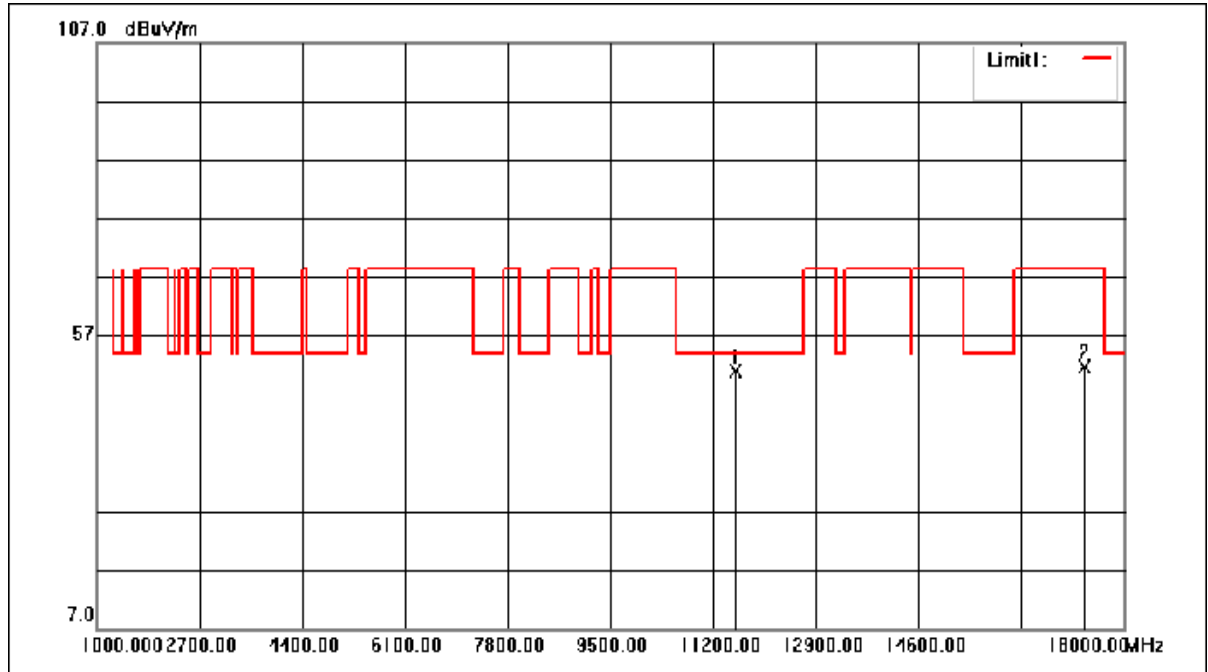
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Mode:i; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.77	1.18	50.95	54.00	-3.05	peak
2	17355.000	42.53	8.98	51.51	68.30	-16.79	peak

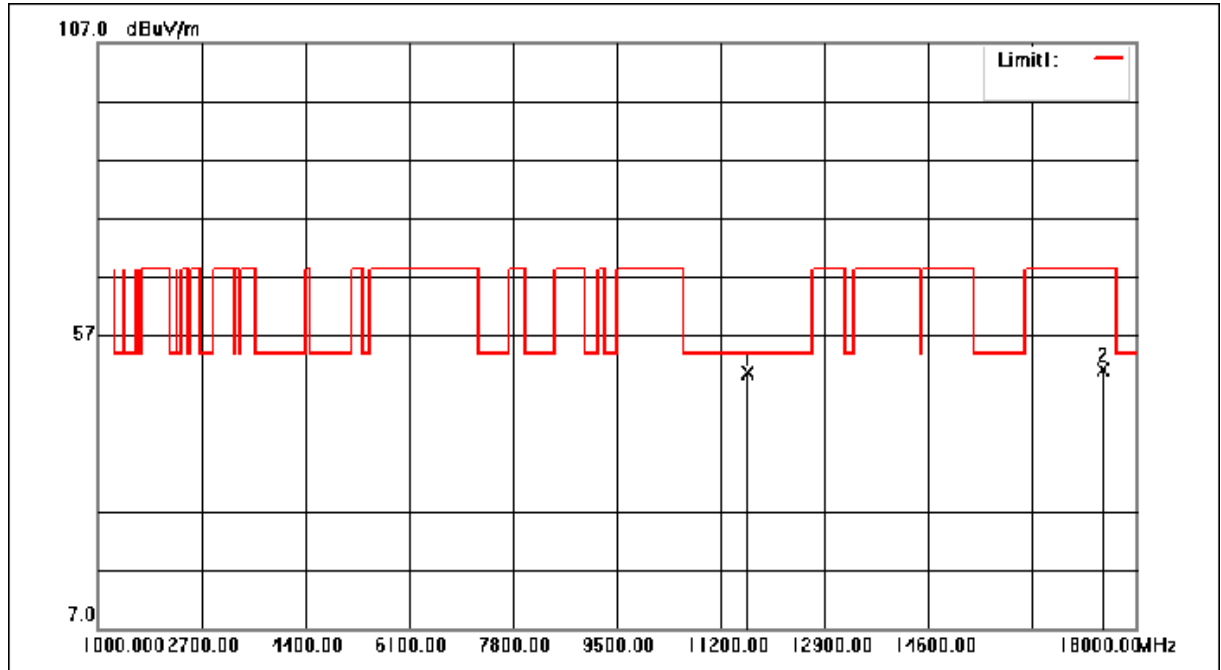


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Mode:i; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

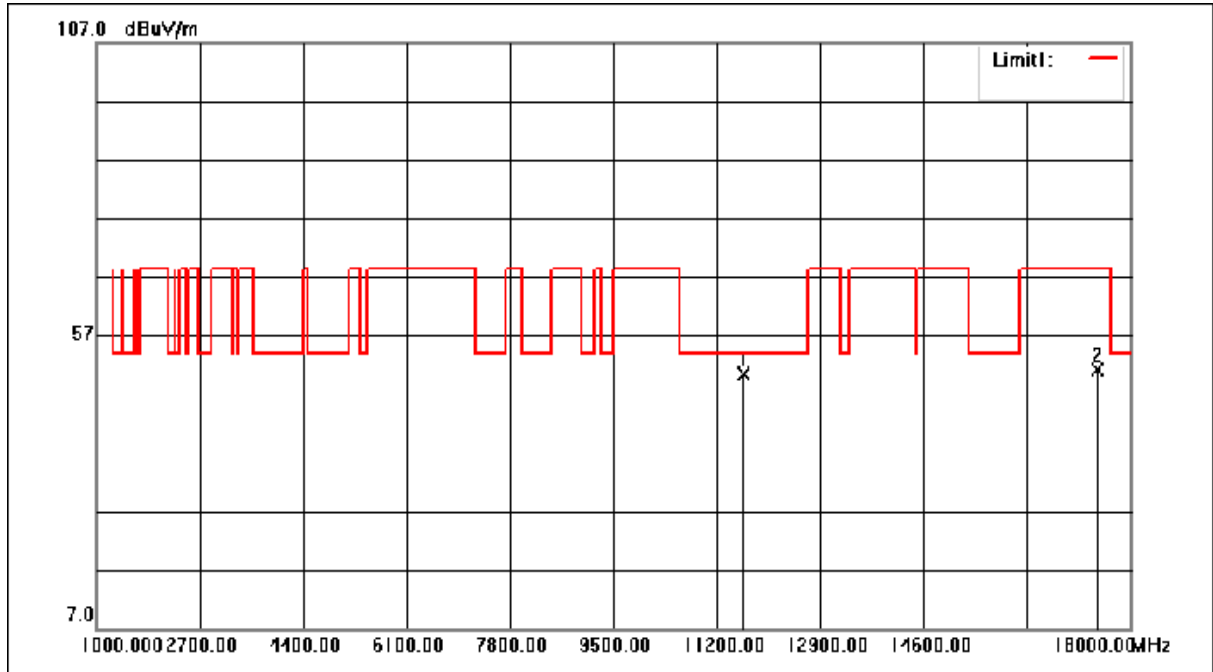


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.19	1.45	50.64	54.00	-3.36	peak
2	17475.000	42.28	8.90	51.18	68.30	-17.12	peak



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

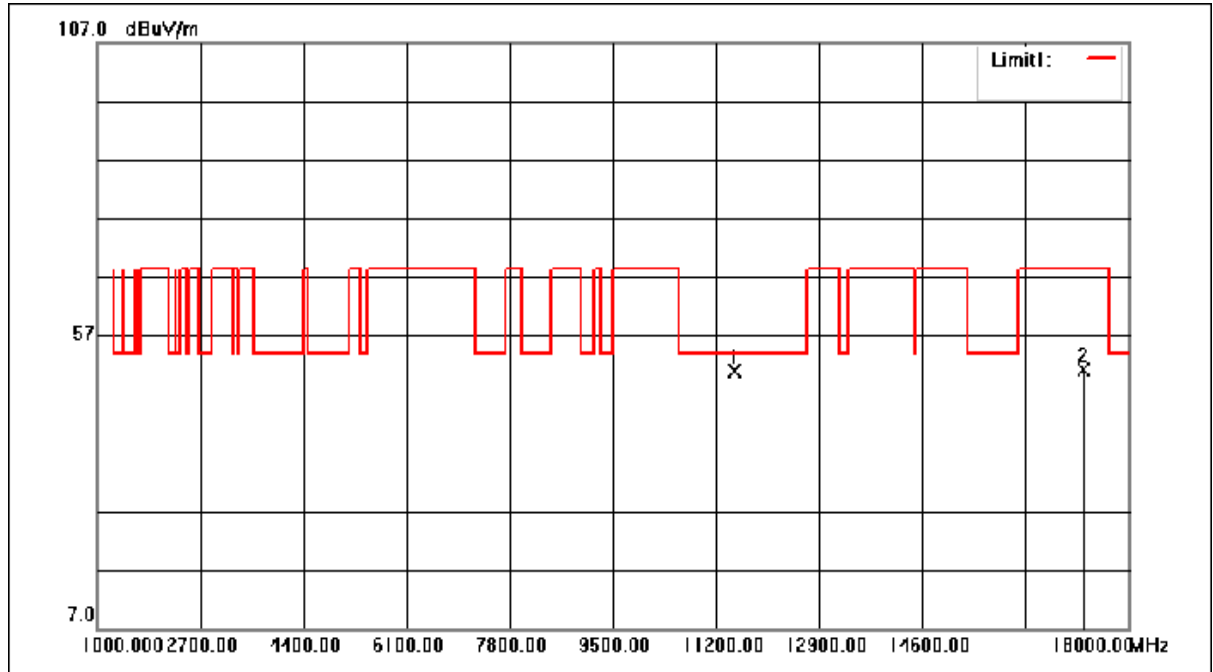


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.01	1.45	50.46	54.00	-3.54	peak
2	17475.000	42.11	8.90	51.01	68.30	-17.29	peak



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

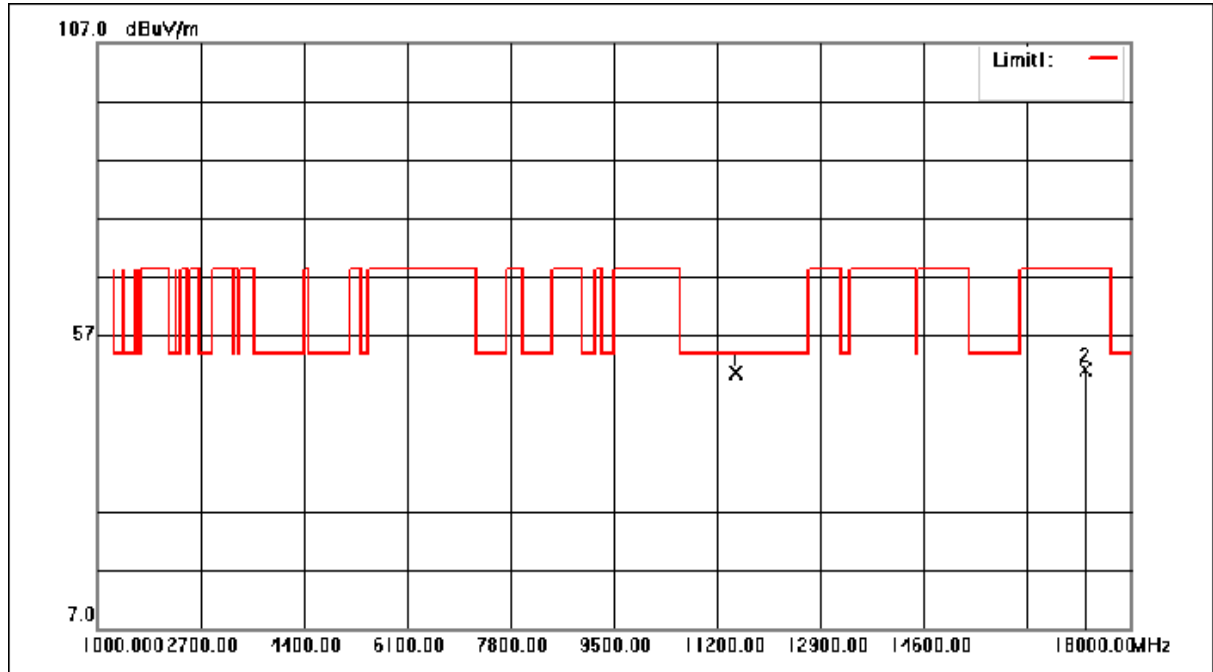


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.86	0.99	50.85	54.00	-3.15	peak
2	17265.000	42.13	9.03	51.16	68.30	-17.14	peak



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

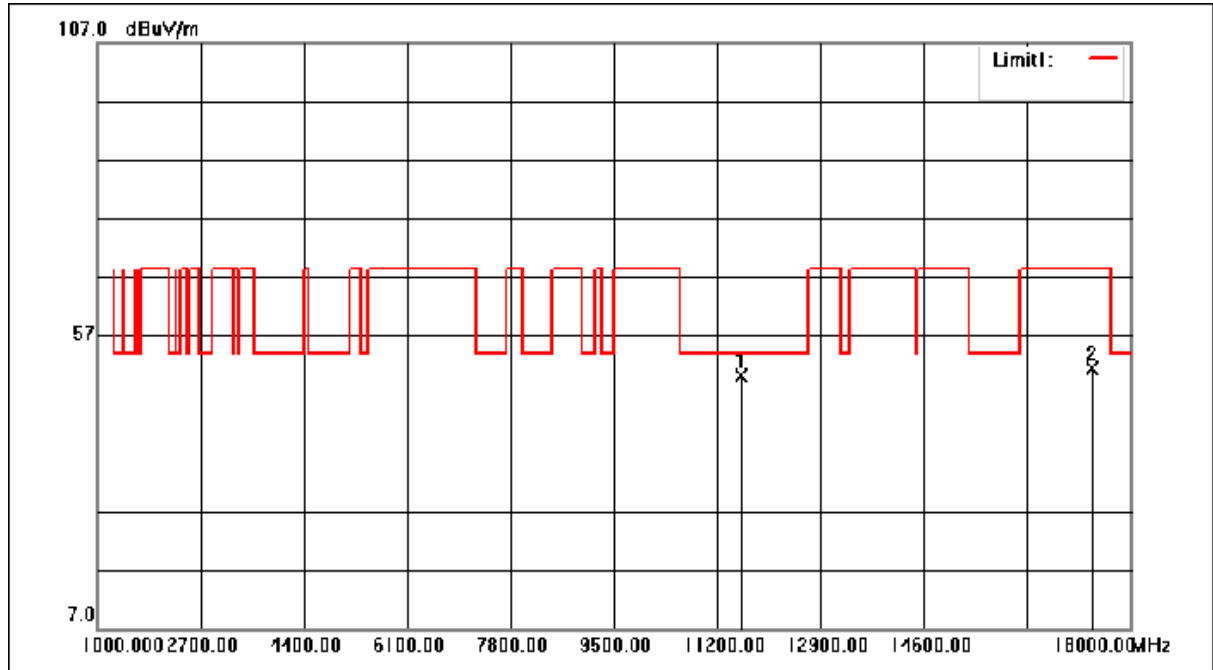


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.58	0.99	50.57	54.00	-3.43	peak
2	17265.000	42.21	9.03	51.24	68.30	-17.06	peak



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Mode:i; 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	48.96	1.25	50.21	54.00	-3.79	peak
2	17385.000	42.54	8.96	51.50	68.30	-16.80	peak



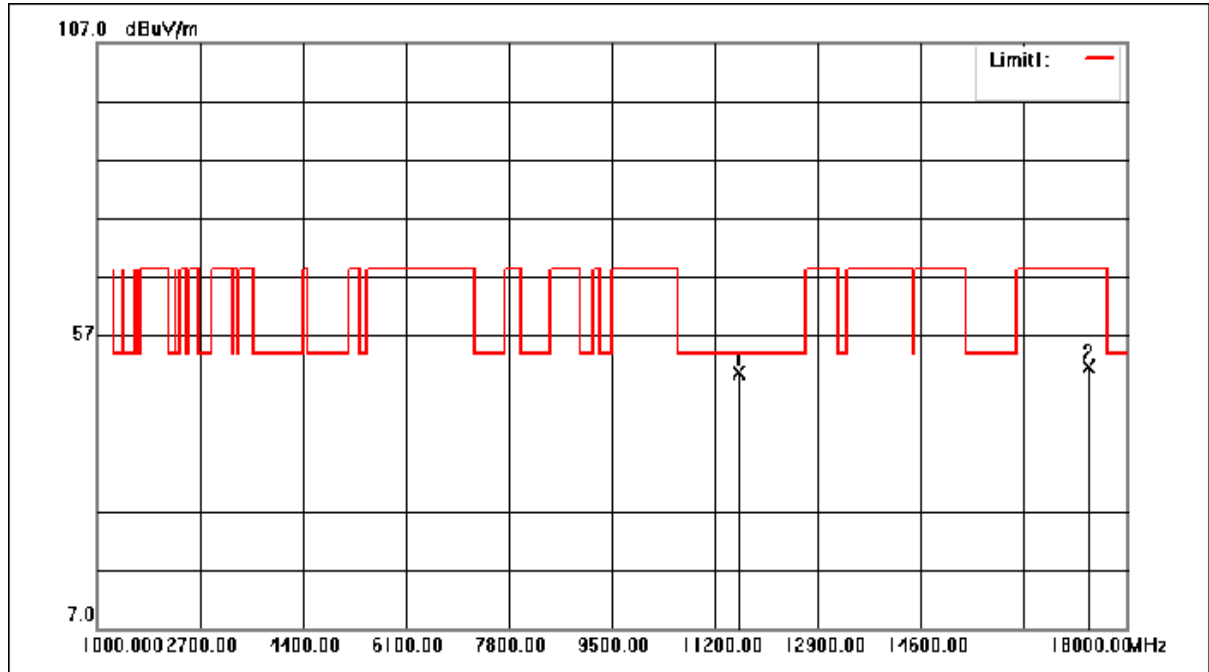
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Mode:i; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.31	1.25	50.56	54.00	-3.44	peak
2	17385.000	42.76	8.96	51.72	68.30	-16.58	peak



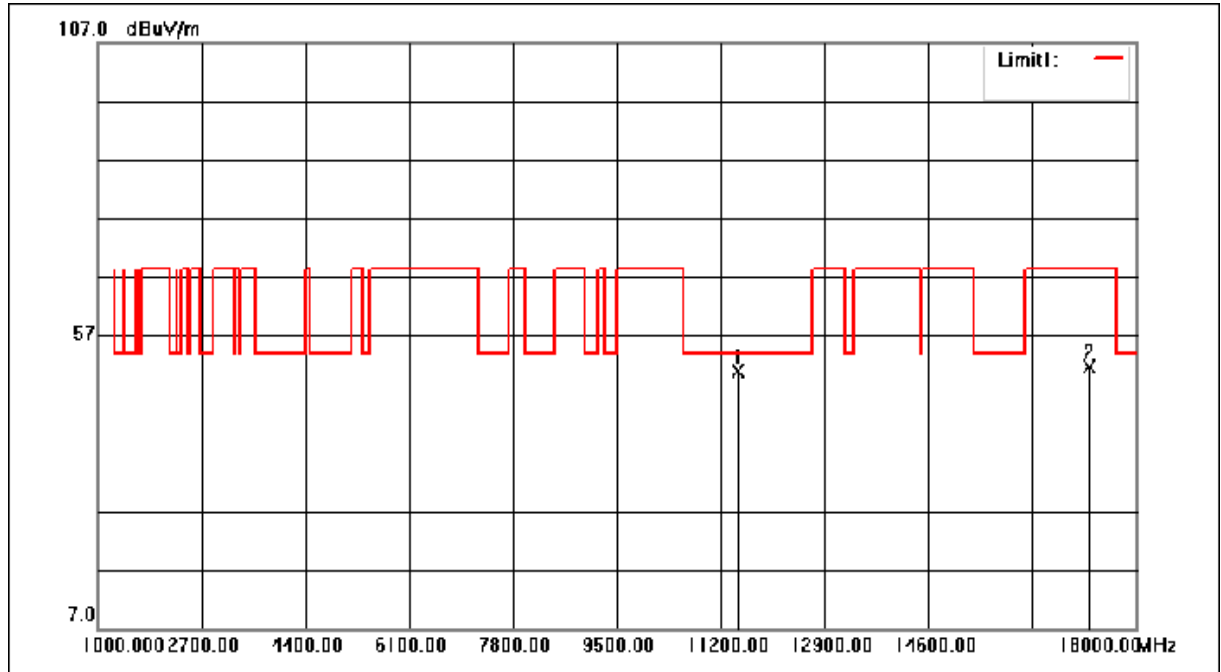
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Mode:i; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	50.02	0.94	50.96	54.00	-3.04	peak
2	17235.000	42.49	9.05	51.54	68.30	-16.76	peak



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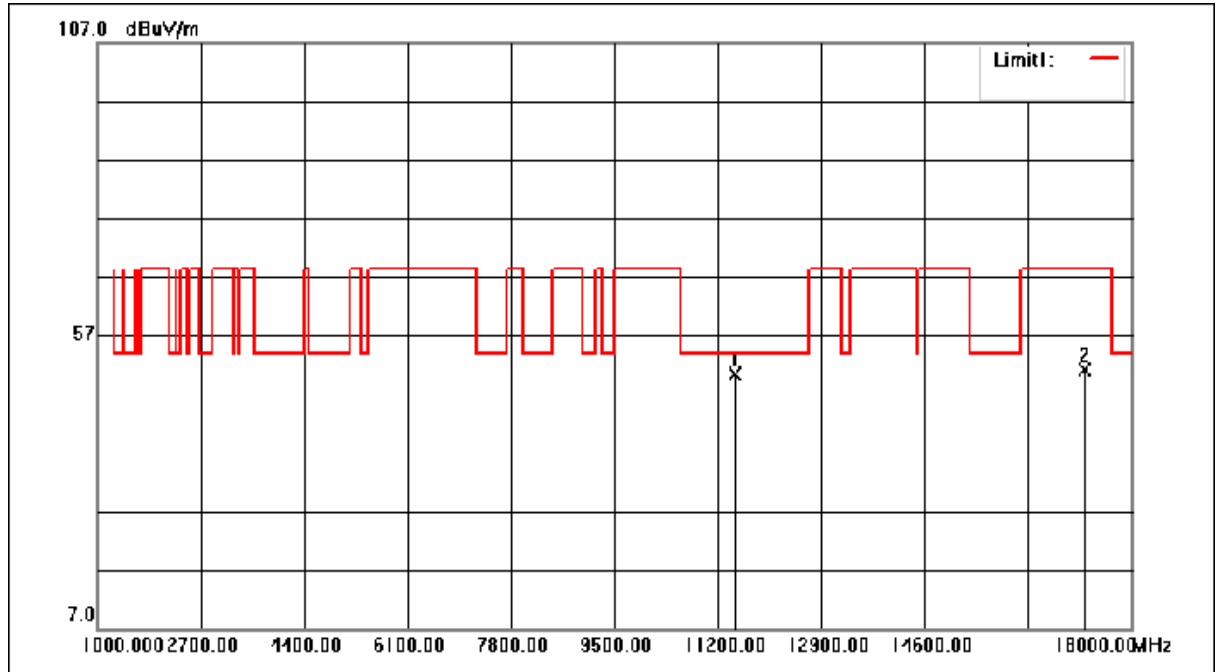
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Mode:i; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

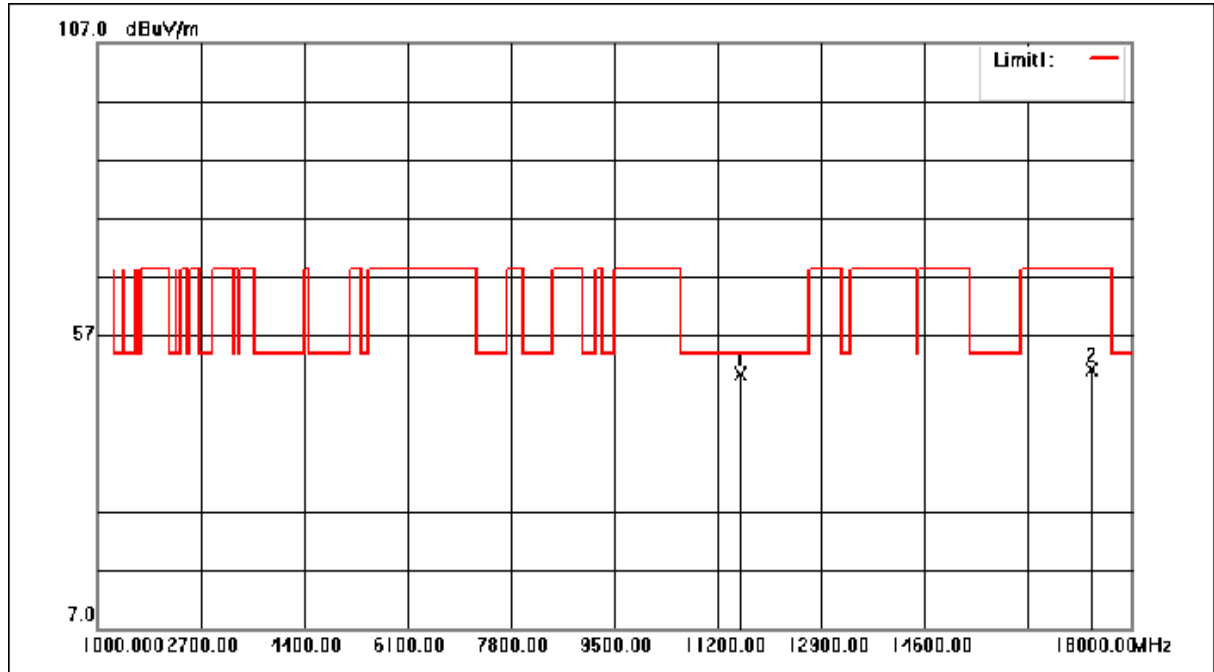


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.43	0.94	50.37	54.00	-3.63	peak
2	17235.000	42.14	9.05	51.19	68.30	-17.11	peak



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

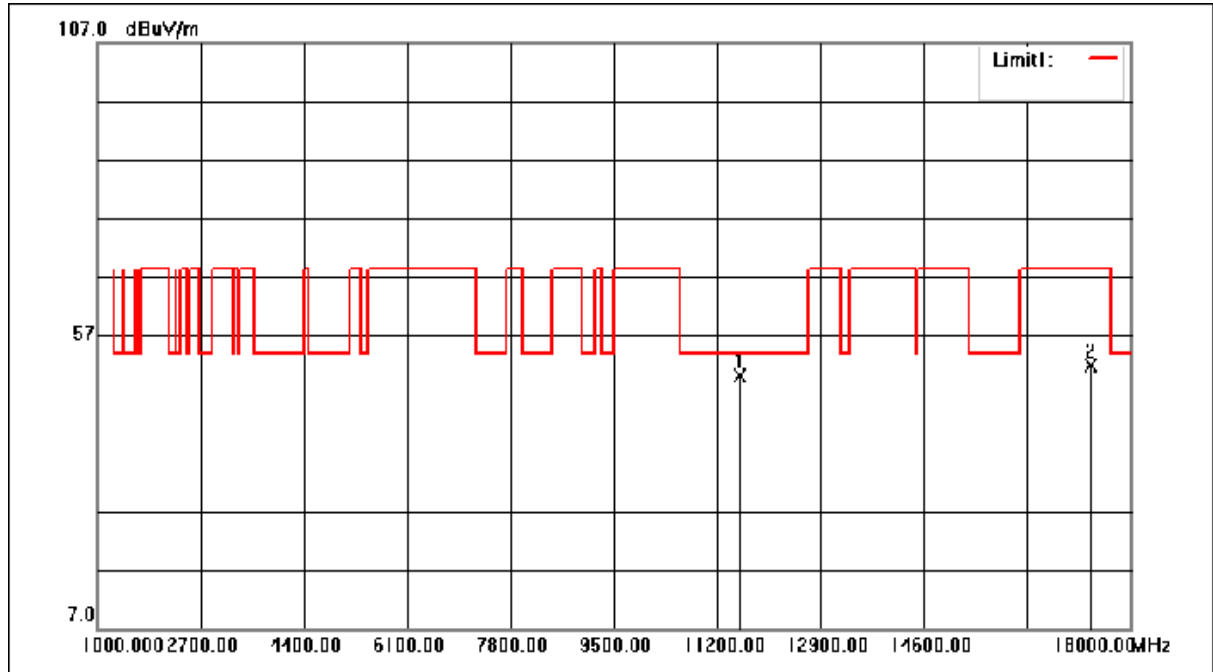


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.19	1.18	50.37	54.00	-3.63	peak
2	17355.000	42.11	8.98	51.09	68.30	-17.21	peak



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Mode:i; 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	48.89	1.18	50.07	54.00	-3.93	peak
2	17355.000	42.82	8.98	51.80	68.30	-16.50	peak



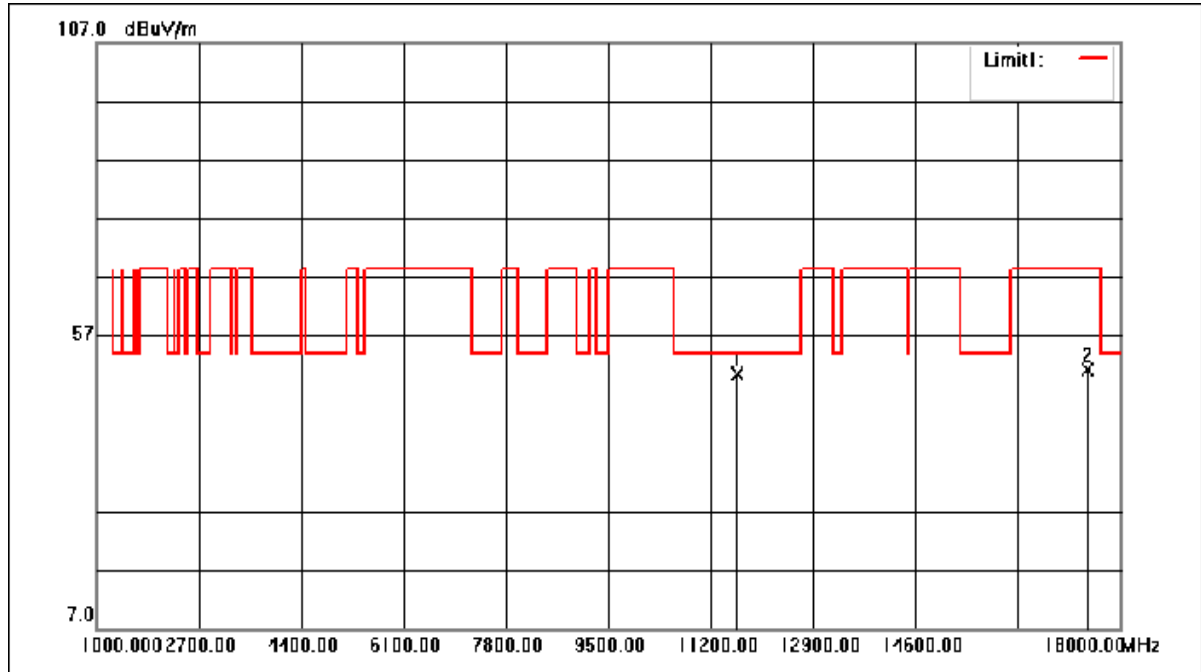
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Mode:i; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High

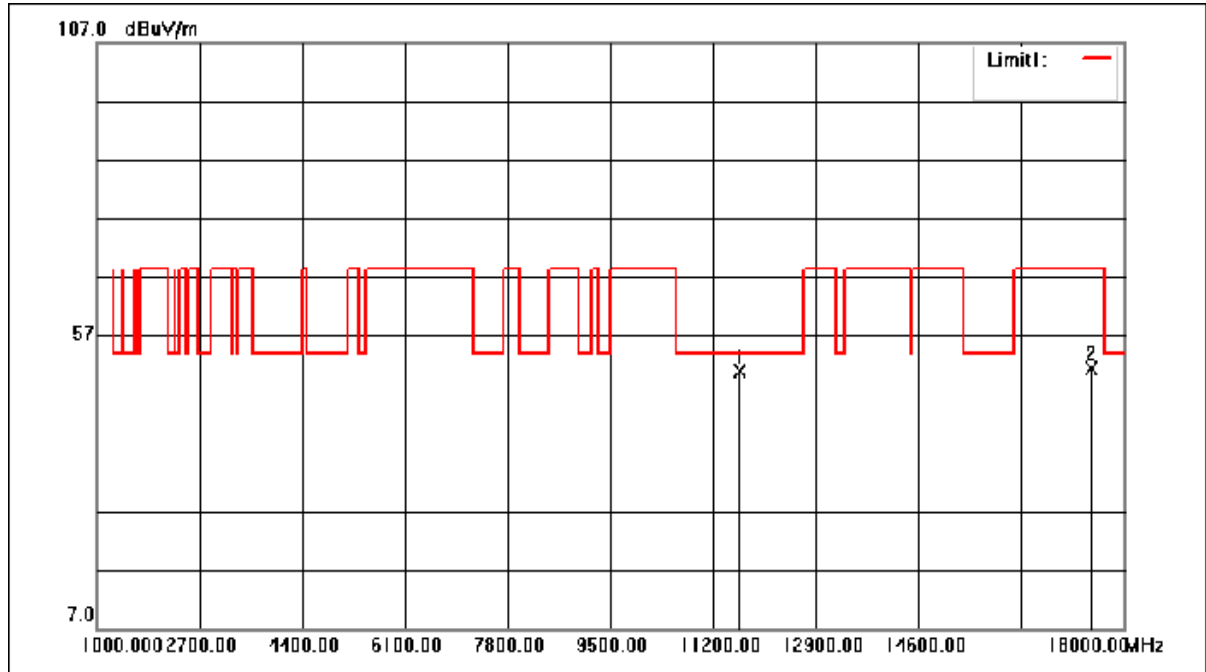


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.97	1.45	50.42	54.00	-3.58	peak
2	17475.000	42.23	8.90	51.13	68.30	-17.17	peak



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

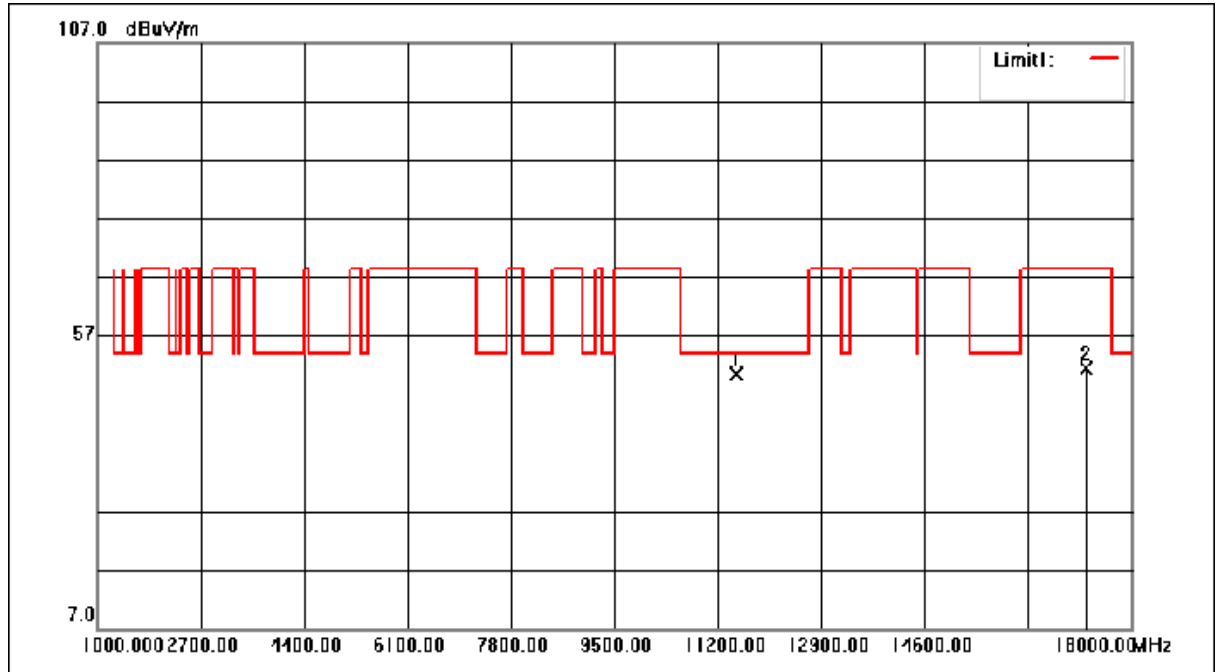


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.49	1.45	50.94	54.00	-3.06	peak
2	17475.000	42.47	8.90	51.37	68.30	-16.93	peak



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

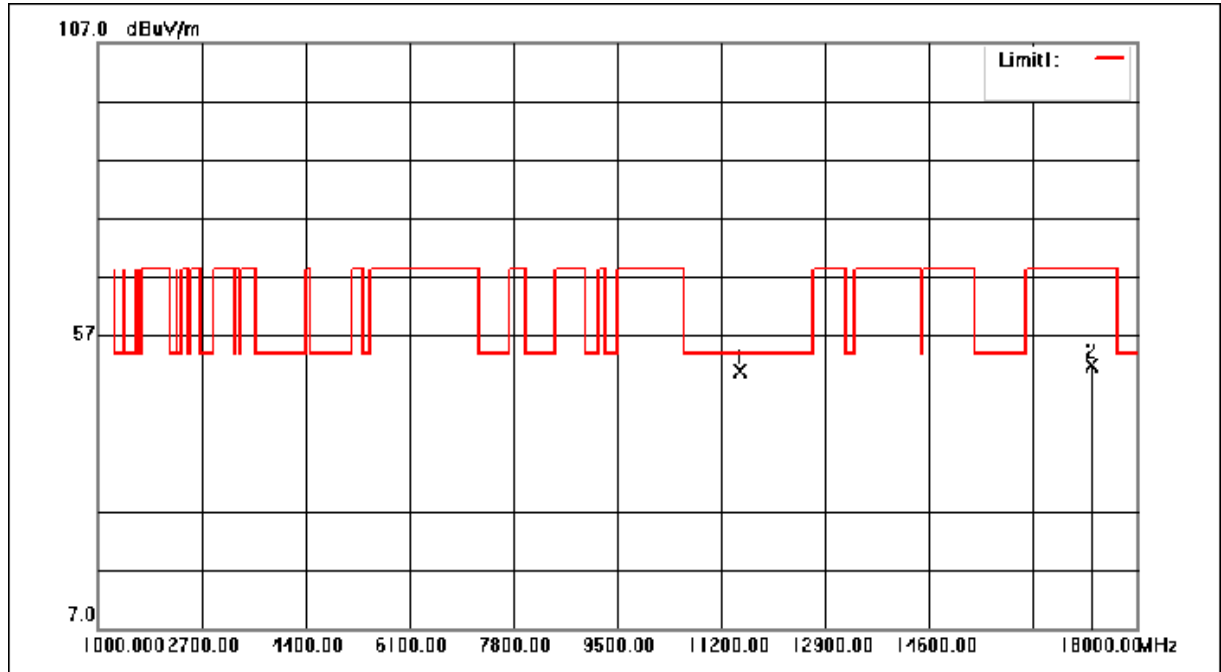


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.43	0.99	50.42	54.00	-3.58	peak
2	17265.000	42.45	9.03	51.48	68.30	-16.82	peak



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Mode:i; 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	49.97	0.99	50.96	54.00	-3.04	peak
2	17265.000	42.78	9.03	51.81	68.30	-16.49	peak



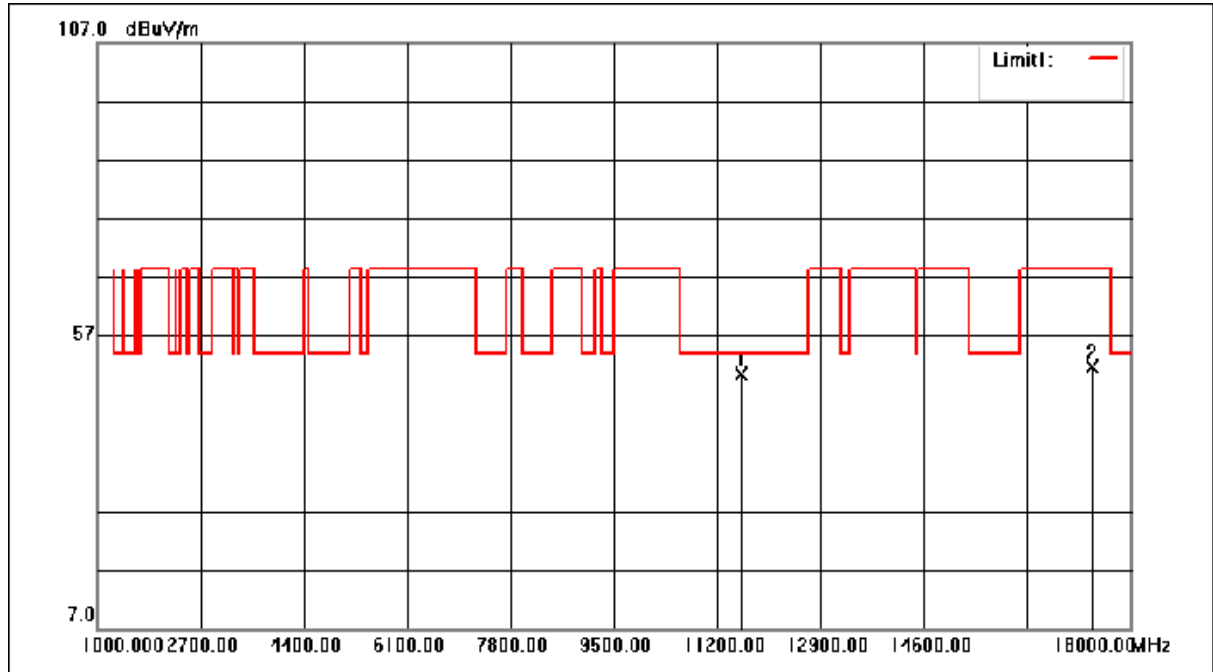
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Mode:i; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.04	1.25	50.29	54.00	-3.71	peak
2	17385.000	42.75	8.96	51.71	68.30	-16.59	peak



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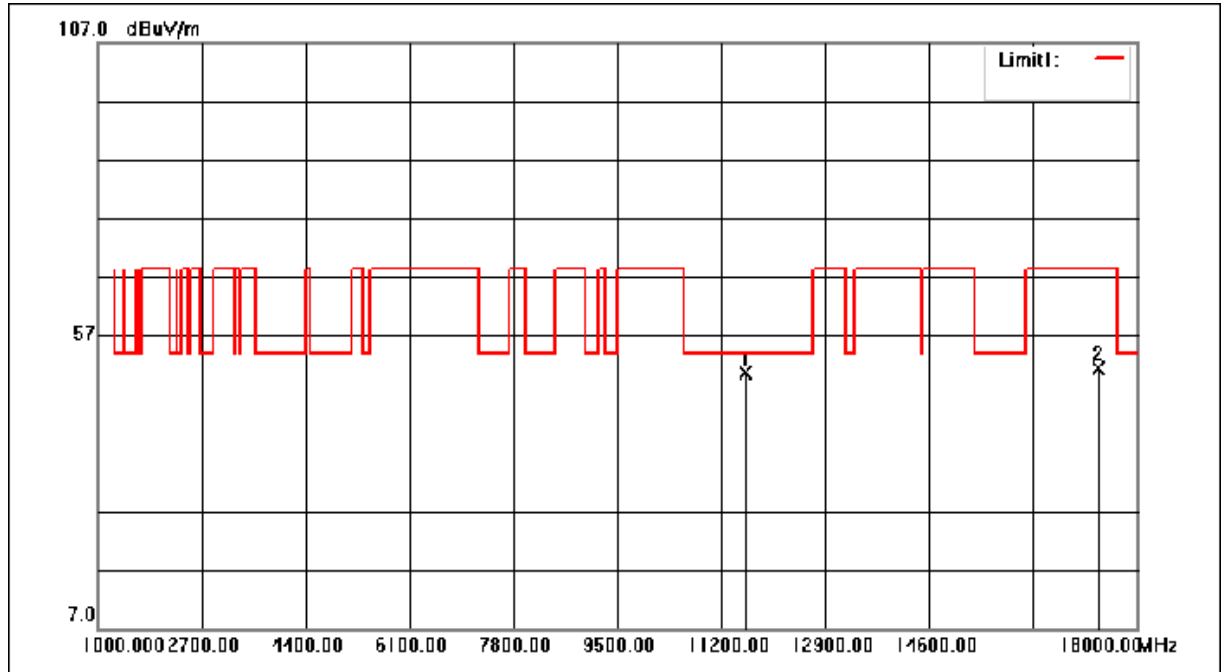
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com



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

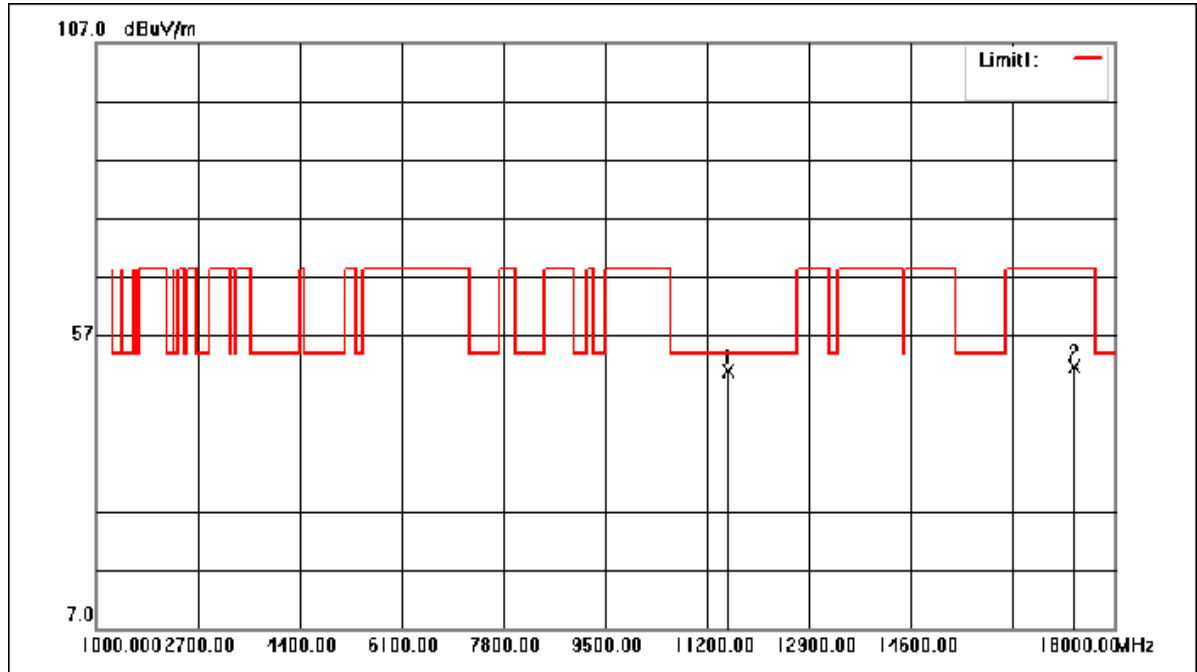


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.43	1.25	50.68	54.00	-3.32	peak
2	17385.000	42.31	8.96	51.27	68.30	-17.03	peak



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

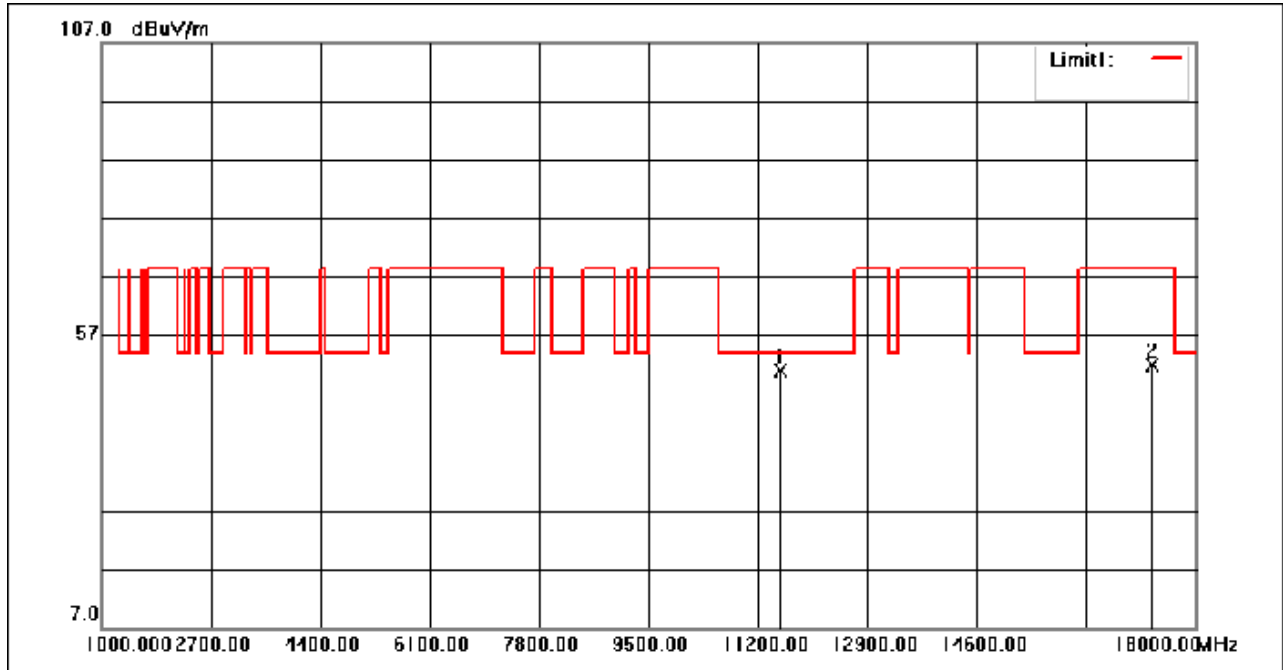


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	49.85	1.12	50.97	54.00	-3.03	peak
2	17325.000	42.63	8.99	51.62	68.30	-16.68	peak



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Mode:i; 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	49.75	1.12	50.87	54.00	-3.13	peak
2	17325.000	42.94	8.99	51.93	68.30	-16.37	peak



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

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

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

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.



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### 7.8.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case: b:Module MT7668 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.

c:Module MT7668 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.

h:Module RTL8812CU 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.

i:Module RTL8812CU 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.

The worst case for final test:

b:Module MT7668 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.

c:Module MT7668 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.

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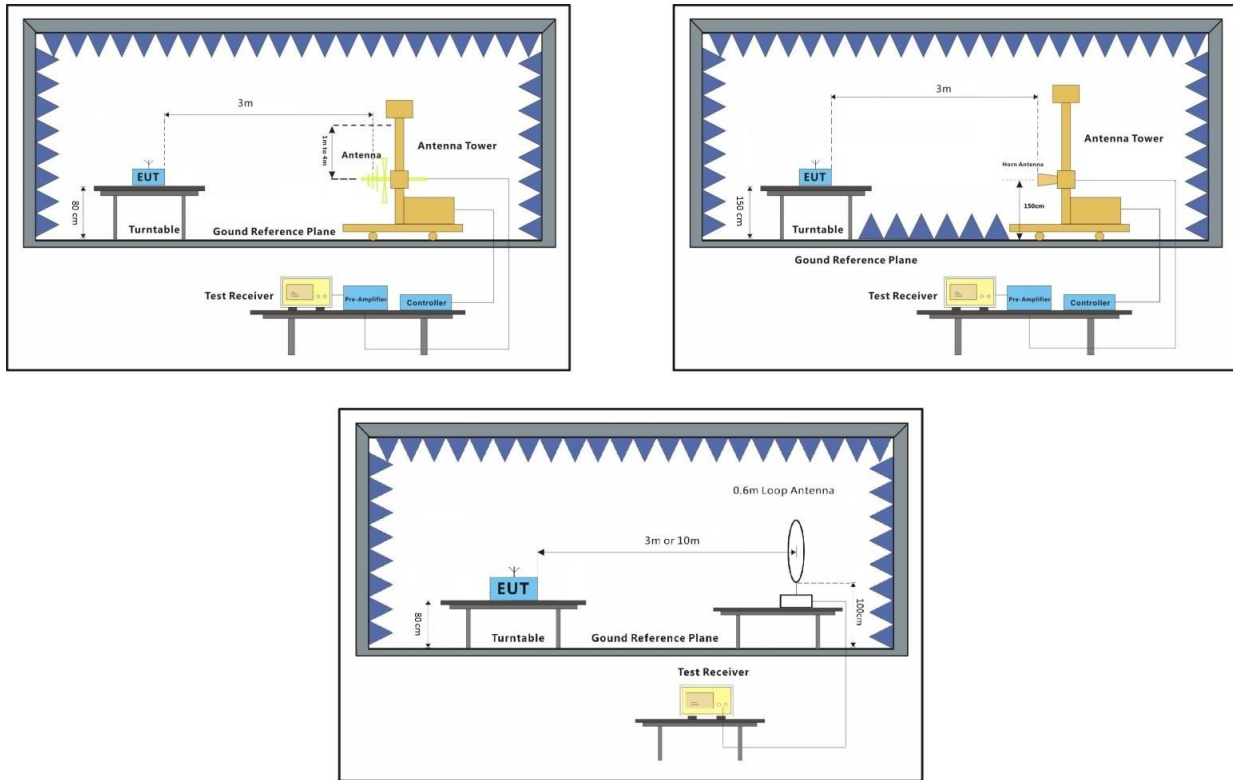
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802.11ac(VHT80). Only the data of worst case is recorded in the report.

h:Module RTL8812CU 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.

i:Module RTL8812CU 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



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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

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

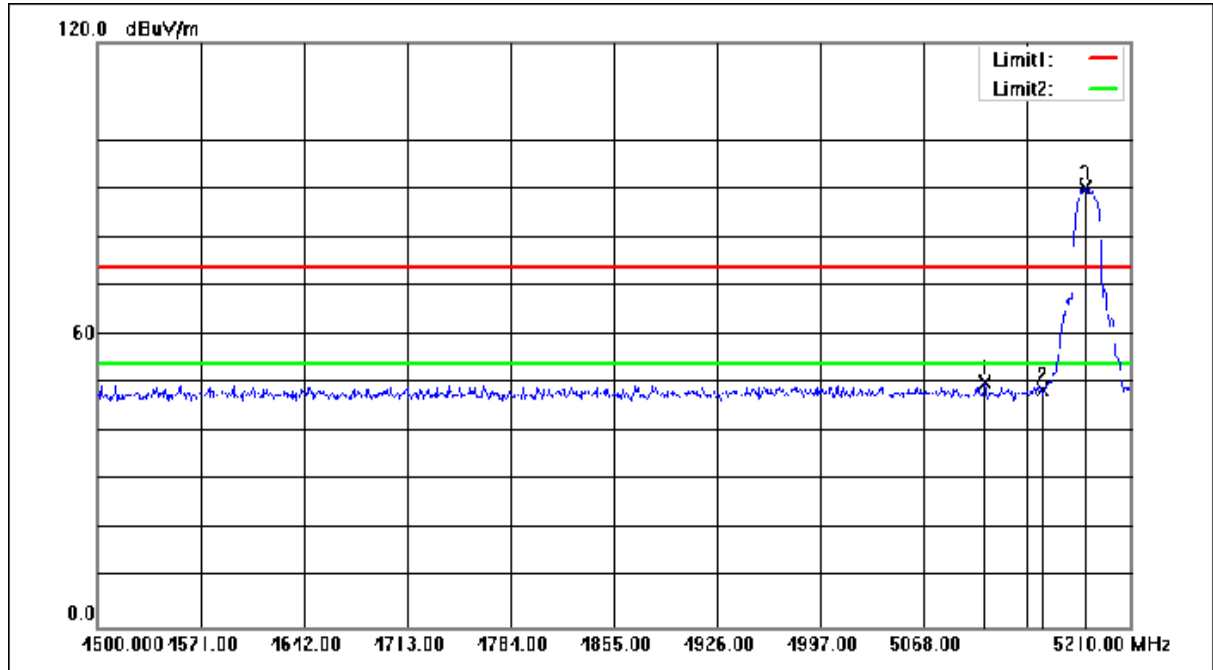


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Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5109.890	58.08	-7.93	50.15	74.00	-23.85	peak
2	5150.000	56.74	-7.84	48.90	74.00	-25.10	peak
3	5178.760	97.81	-7.78	90.03	74.00	16.03	peak



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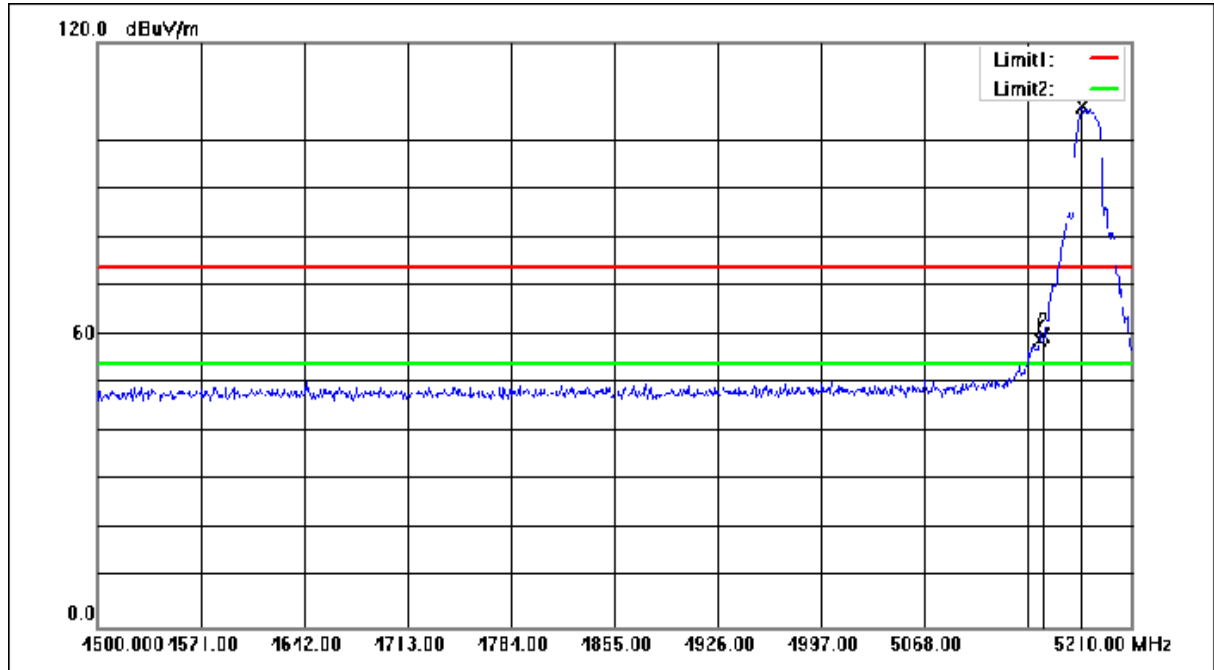
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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

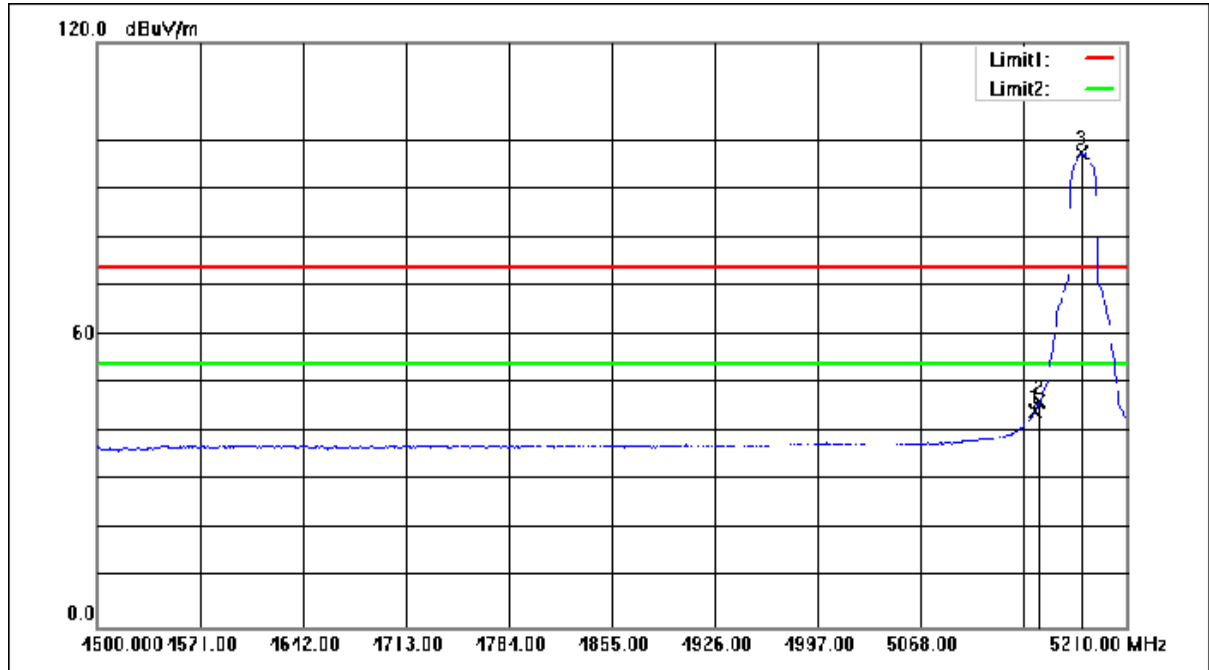


No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.810	66.76	-7.85	58.91	74.00	-15.09	peak
2	5150.000	67.54	-7.84	59.70	74.00	-14.30	peak
3	5175.920	114.67	-7.78	106.89	74.00	32.89	peak



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

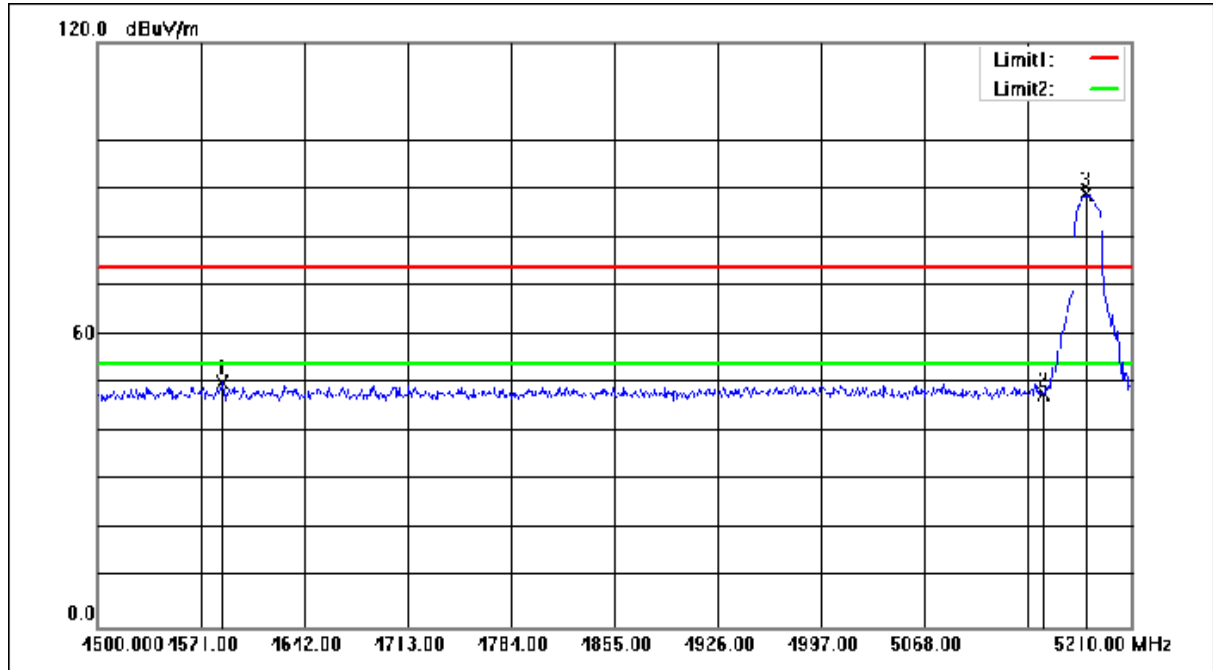


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.810	52.22	-7.85	44.37	54.00	-9.63	AVG
2	5150.000	54.13	-7.84	46.29	54.00	-7.71	AVG
3	5179.470	105.16	-7.77	97.39	54.00	43.39	AVG



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

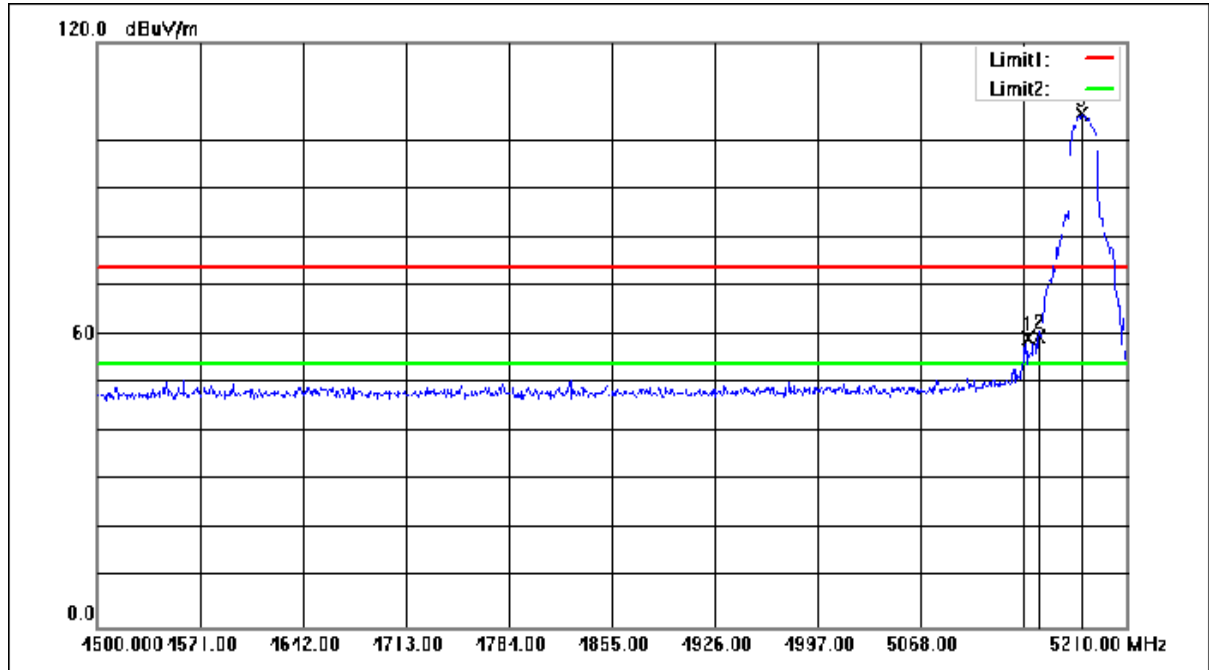


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4585.910	58.75	-8.55	50.20	74.00	-23.80	peak
2	5150.000	55.74	-7.84	47.90	74.00	-26.10	peak
3	5179.470	96.69	-7.77	88.92	74.00	14.92	peak



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

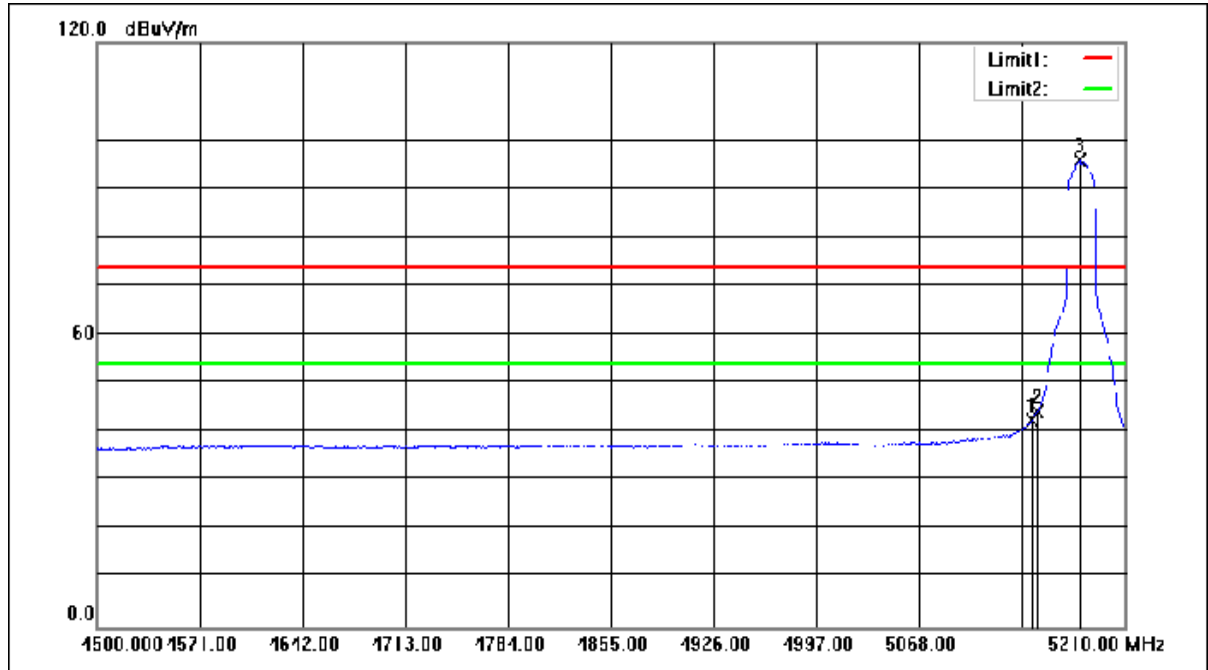


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5141.840	67.18	-7.86	59.32	74.00	-14.68	peak
2	5150.000	67.31	-7.84	59.47	74.00	-14.53	peak
3	5179.470	113.13	-7.77	105.36	74.00	31.36	peak



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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	5146.100	50.26	-7.85	42.41	54.00	-11.59	AVG
2	5150.000	52.24	-7.84	44.40	54.00	-9.60	AVG
3	5178.760	103.59	-7.78	95.81	54.00	41.81	AVG



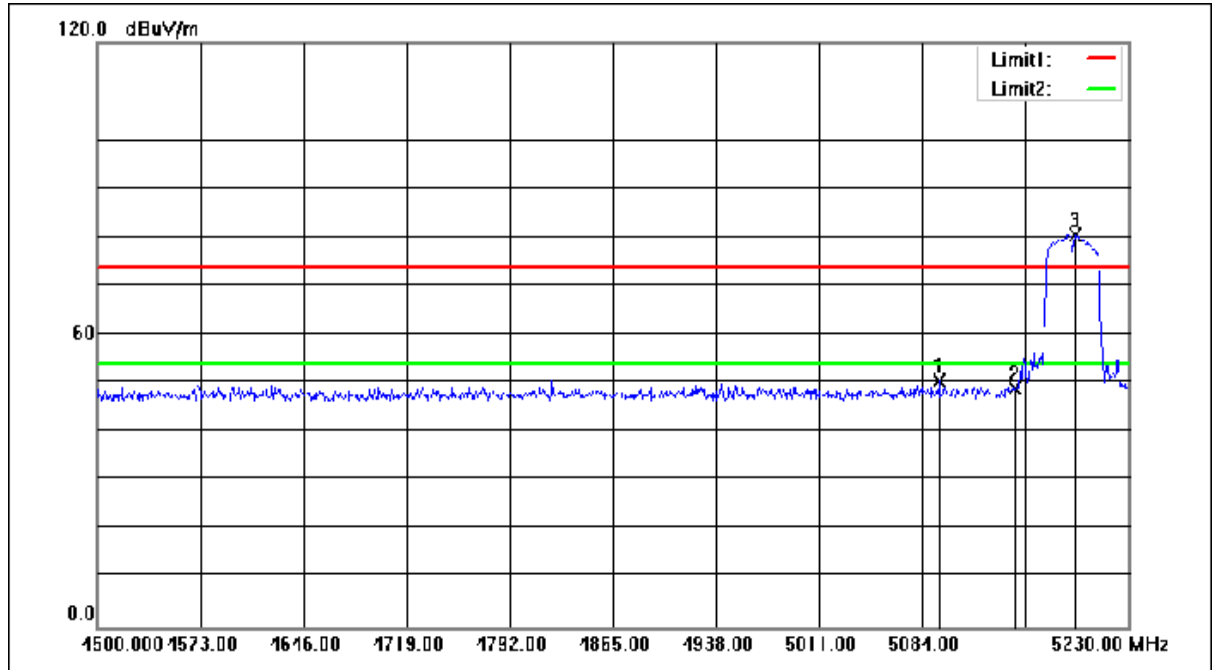
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

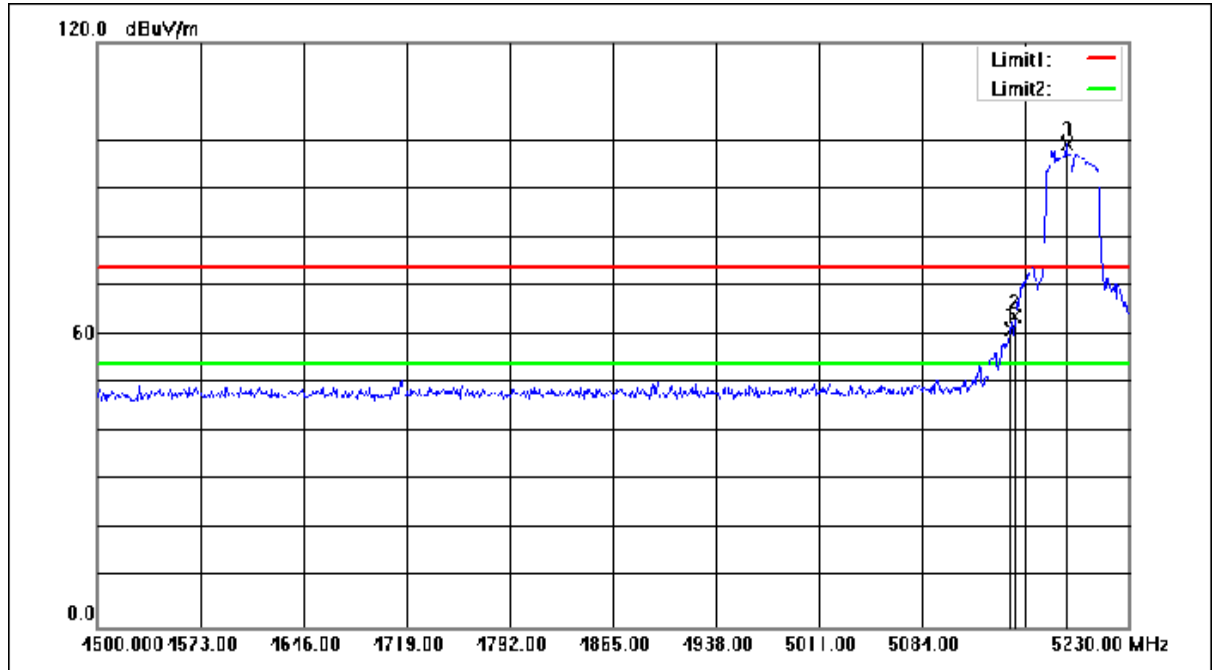


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5096.410	58.46	-7.96	50.50	74.00	-23.50	peak
2	5150.000	56.78	-7.84	48.94	74.00	-25.06	peak
3	5192.770	88.33	-7.75	80.58	74.00	6.58	peak



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

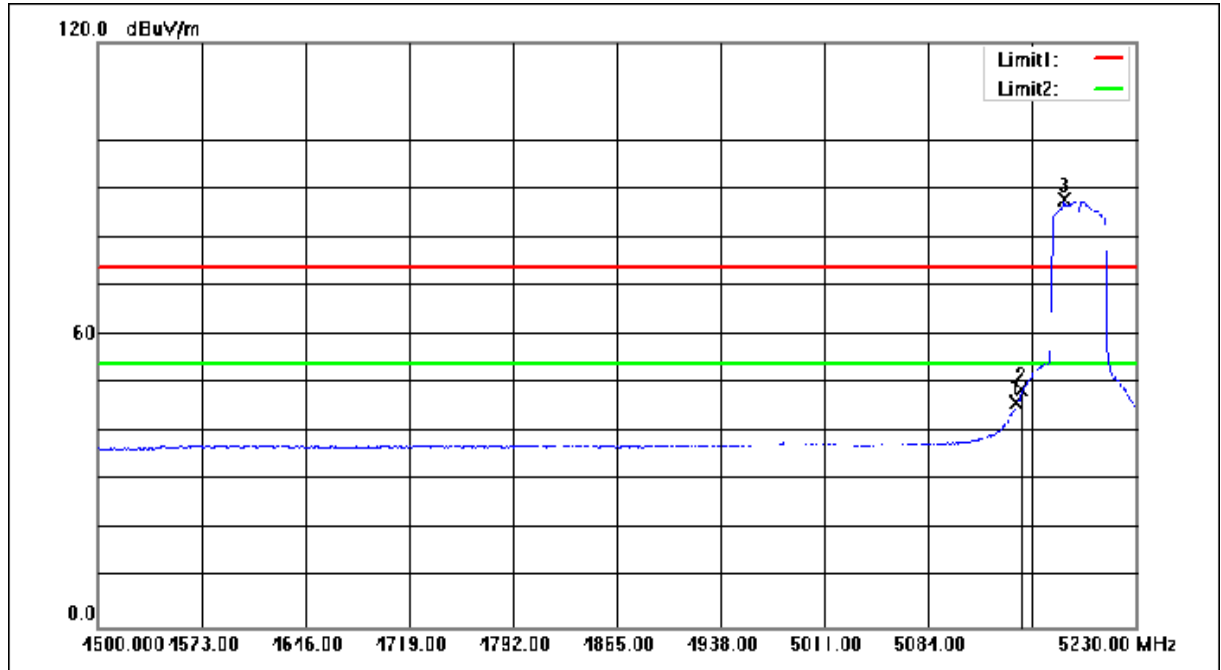


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.780	68.79	-7.85	60.94	74.00	-13.06	peak
2	5150.000	71.47	-7.84	63.63	74.00	-10.37	peak
3	5186.200	106.99	-7.77	99.22	74.00	25.22	peak



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Mode:b; 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	53.80	-7.85	45.95	54.00	-8.05	AVG
2	5150.000	56.59	-7.84	48.75	54.00	-5.25	AVG
3	5179.630	95.46	-7.77	87.69	54.00	33.69	AVG



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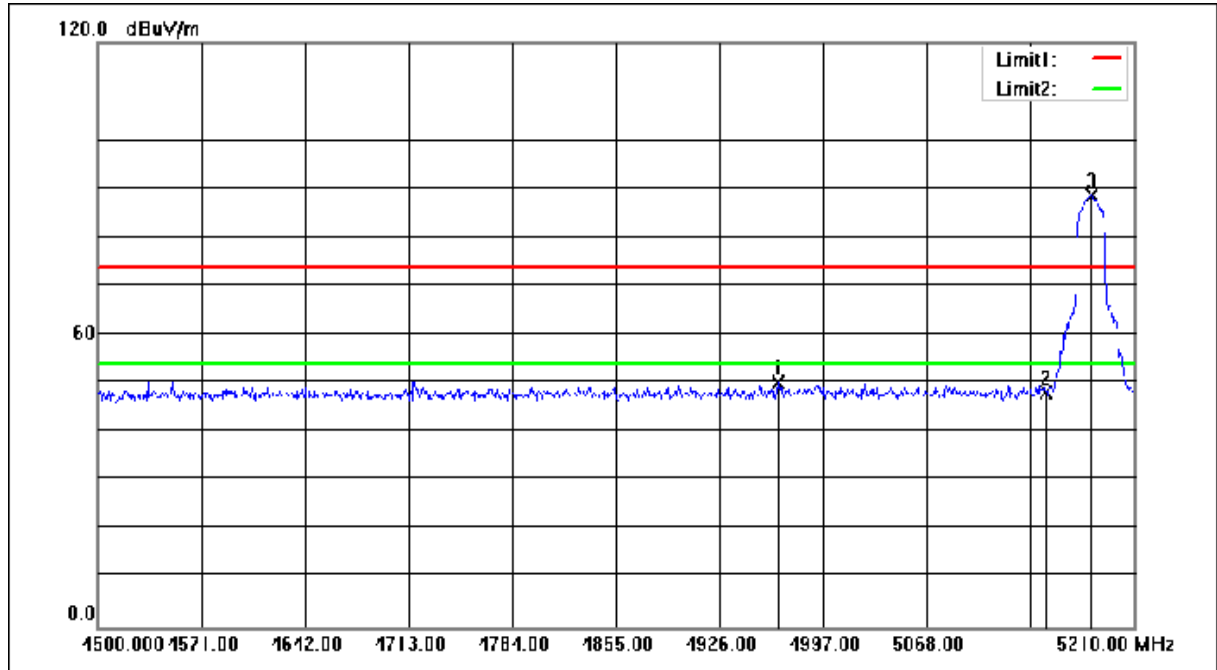
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

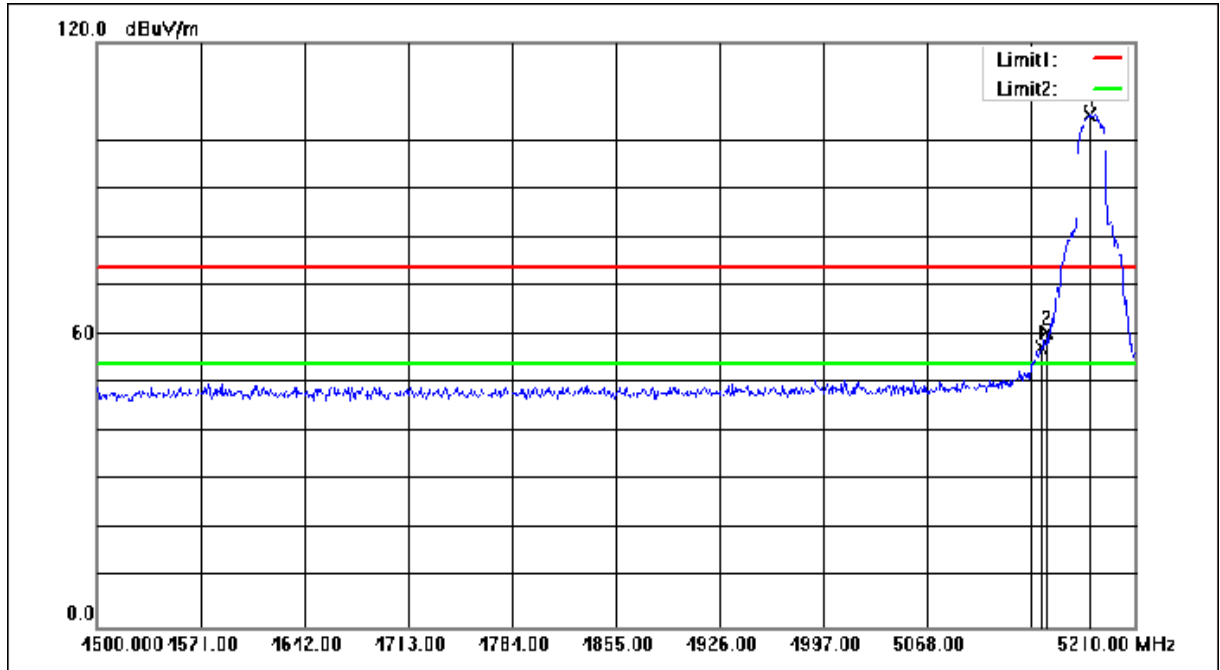


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4966.470	58.62	-8.30	50.32	74.00	-23.68	peak
2	5150.000	55.92	-7.84	48.08	74.00	-25.92	peak
3	5180.890	96.28	-7.77	88.51	74.00	14.51	peak



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

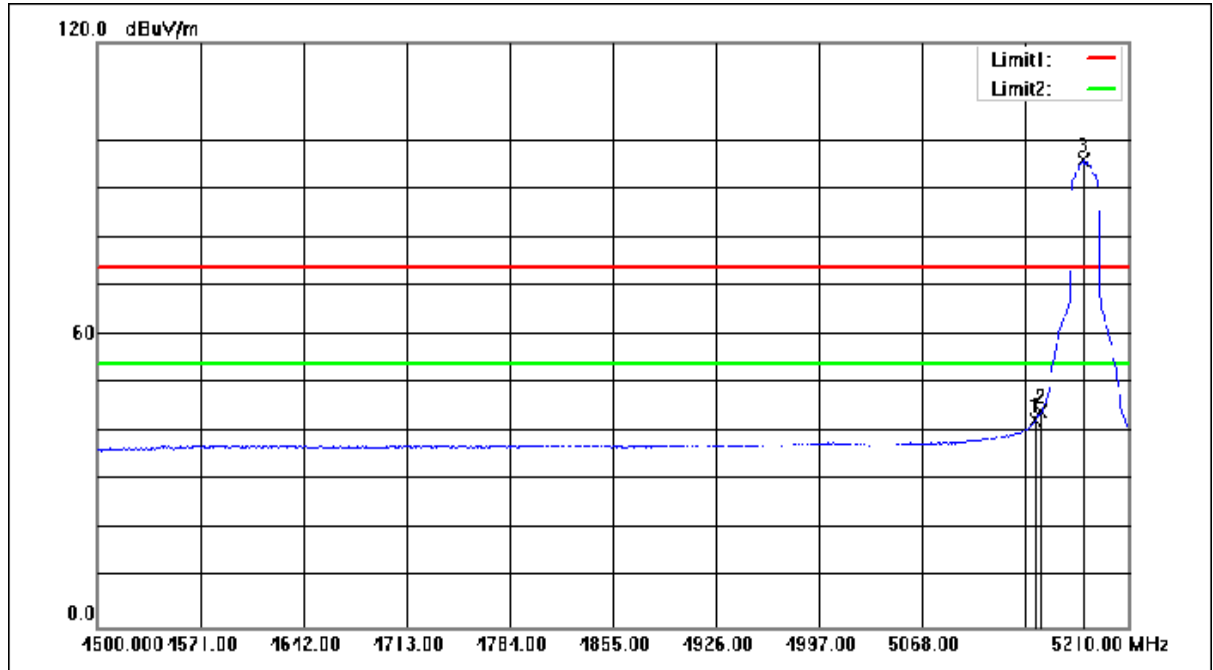


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.100	65.23	-7.85	57.38	74.00	-16.62	peak
2	5150.000	68.21	-7.84	60.37	74.00	-13.63	peak
3	5179.470	113.01	-7.77	105.24	74.00	31.24	peak



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Mode:b; 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	50.29	-7.85	42.44	54.00	-11.56	AVG
2	5150.000	52.08	-7.84	44.24	54.00	-9.76	AVG
3	5178.760	103.55	-7.78	95.77	54.00	41.77	AVG

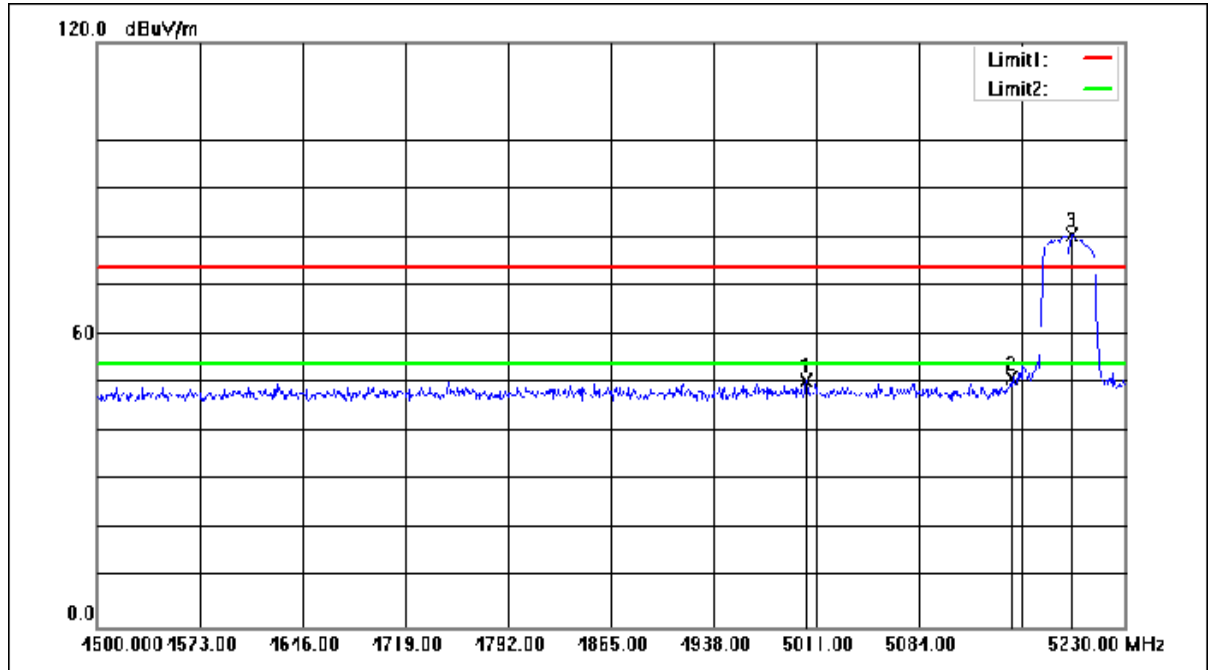


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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5003.700	58.78	-8.17	50.61	74.00	-23.39	peak
2	5150.000	58.91	-7.84	51.07	74.00	-22.93	peak
3	5192.770	88.38	-7.75	80.63	74.00	6.63	peak



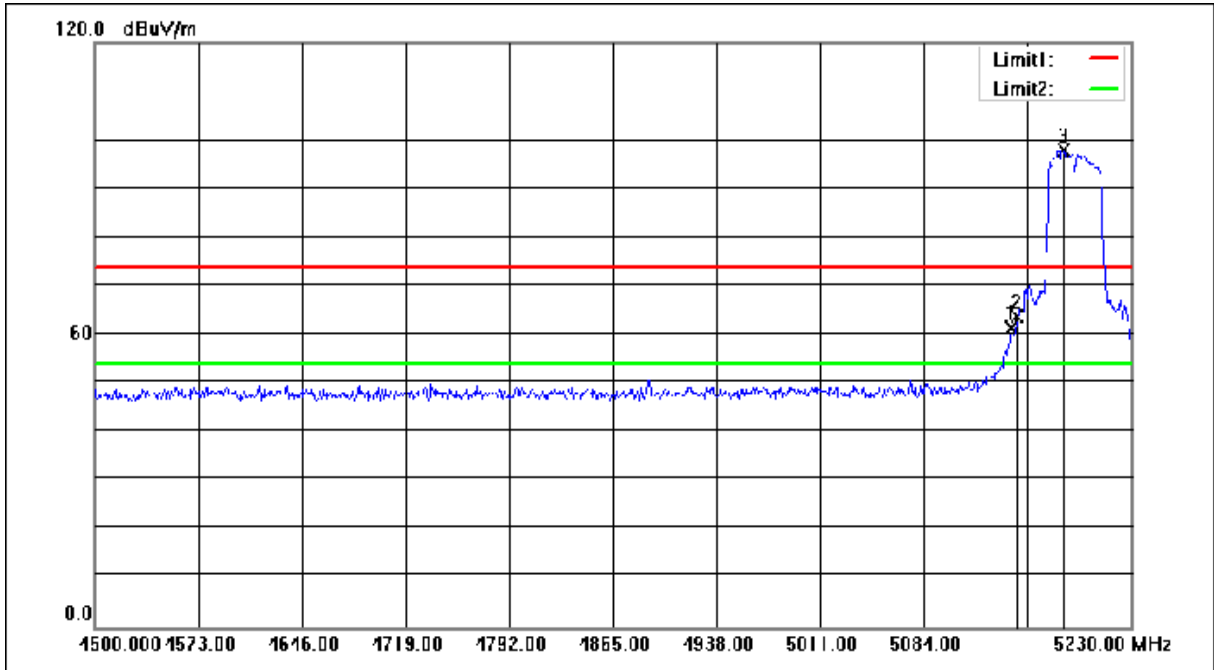
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Compliance Certification Services (Kunshan) Inc.  
EMC Laboratory

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

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

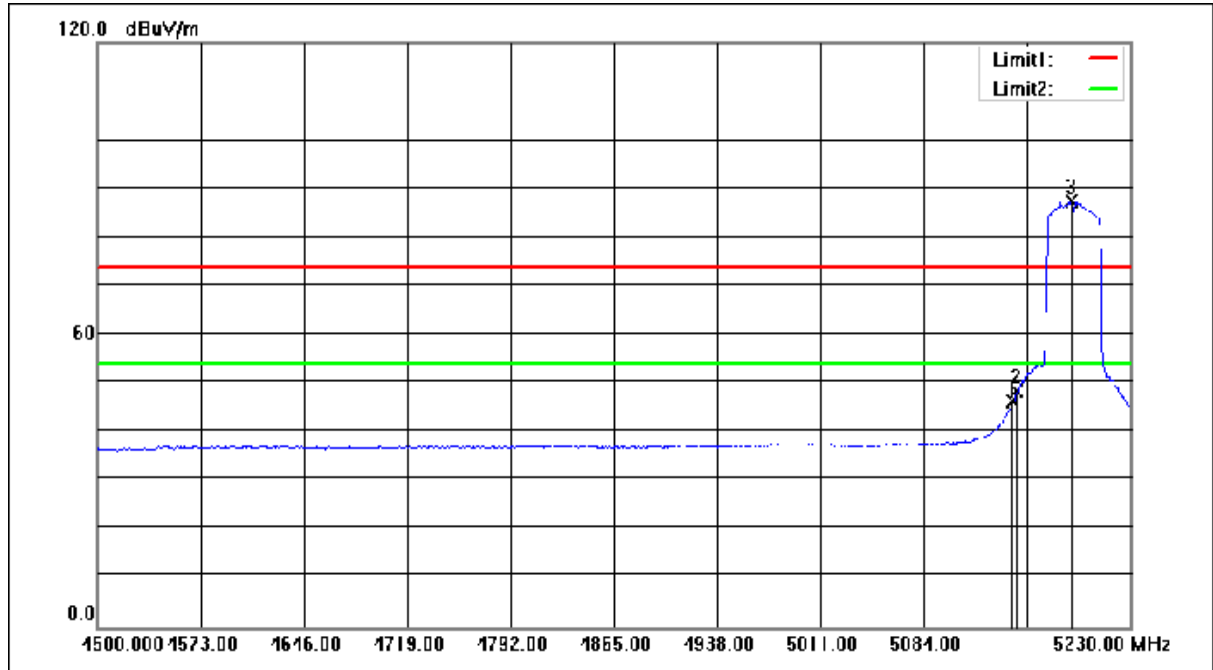


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5145.320	69.34	-7.85	61.49	74.00	-12.51	peak
2	5150.000	71.65	-7.84	63.81	74.00	-10.19	peak
3	5182.550	105.69	-7.77	97.92	74.00	23.92	peak



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

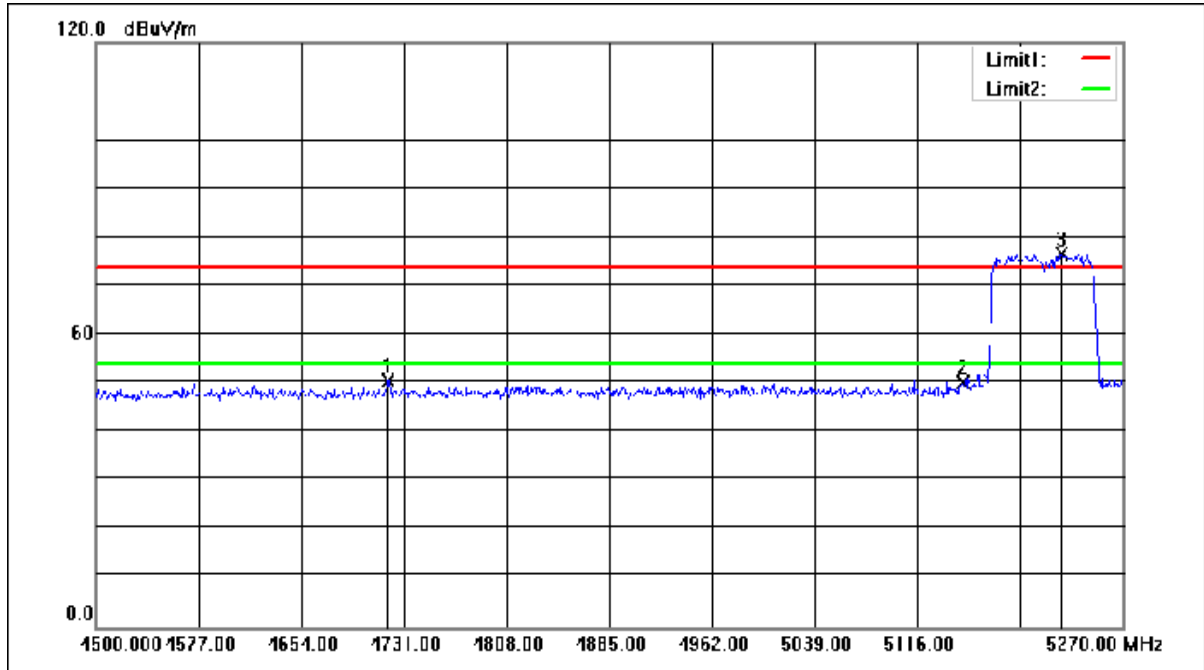


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.780	54.12	-7.85	46.27	54.00	-7.73	AVG
2	5150.000	56.44	-7.84	48.60	54.00	-5.40	AVG
3	5188.390	95.15	-7.76	87.39	54.00	33.39	AVG



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

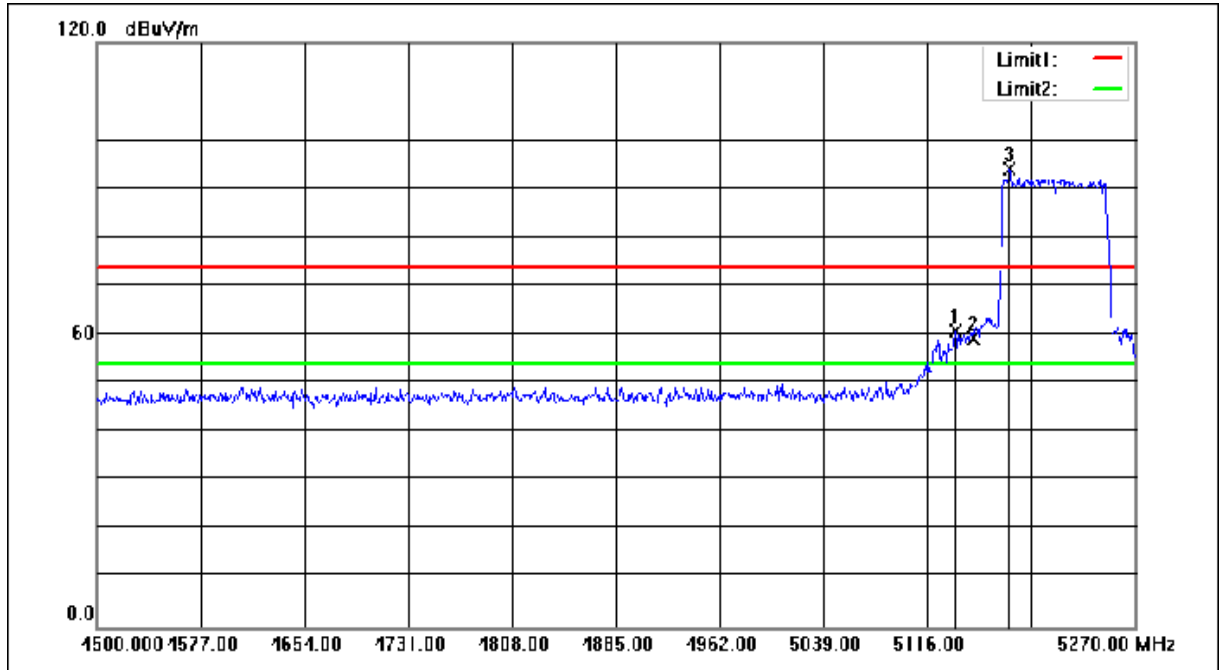


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4719.450	59.29	-8.73	50.56	74.00	-23.44	peak
2	5150.000	58.02	-7.84	50.18	74.00	-23.82	peak
3	5224.570	84.35	-7.63	76.72	74.00	2.72	peak



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



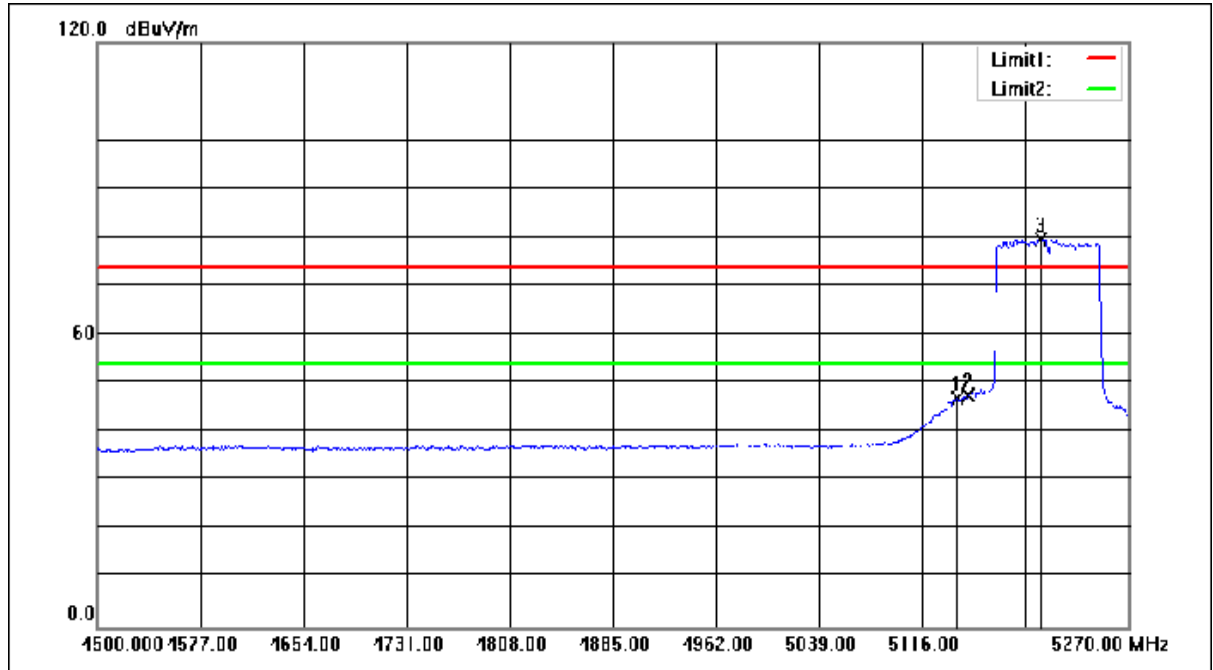
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5136.790	68.72	-7.87	60.85	74.00	-13.15	peak
2	5150.000	67.11	-7.84	59.27	74.00	-14.73	peak
3	5176.830	101.70	-7.78	93.92	74.00	19.92	peak



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

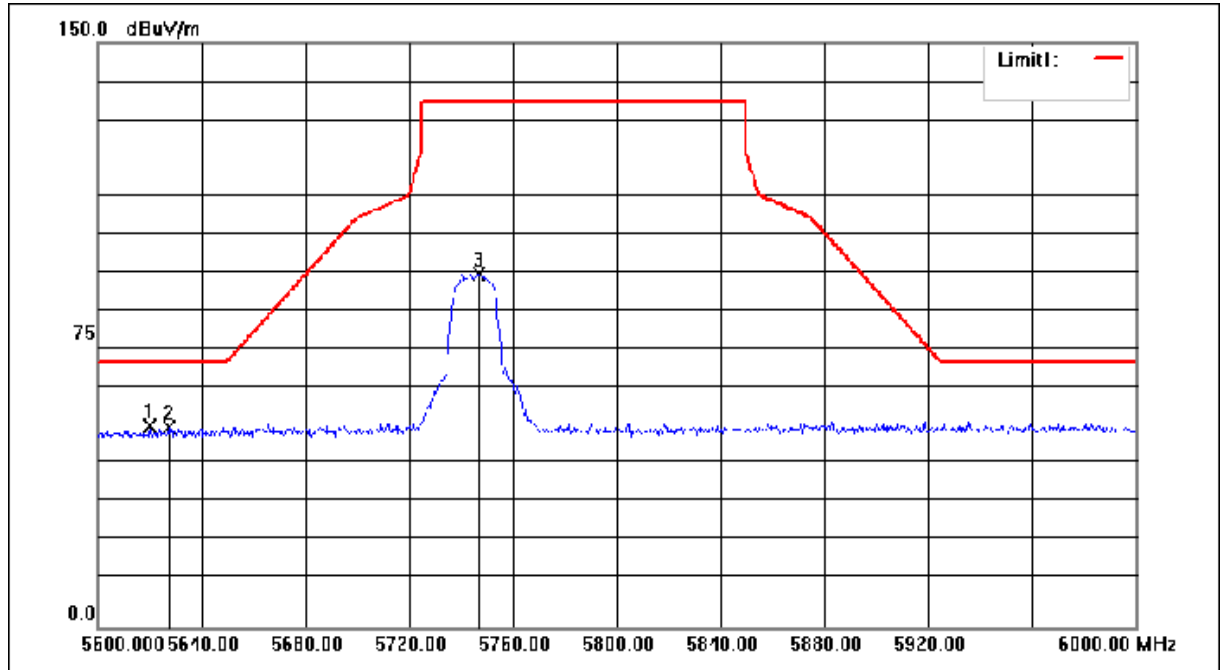


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.180	54.83	-7.86	46.97	54.00	-7.03	AVG
2	5150.000	55.33	-7.84	47.49	54.00	-6.51	AVG
3	5204.550	87.37	-7.71	79.66	54.00	25.66	AVG



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

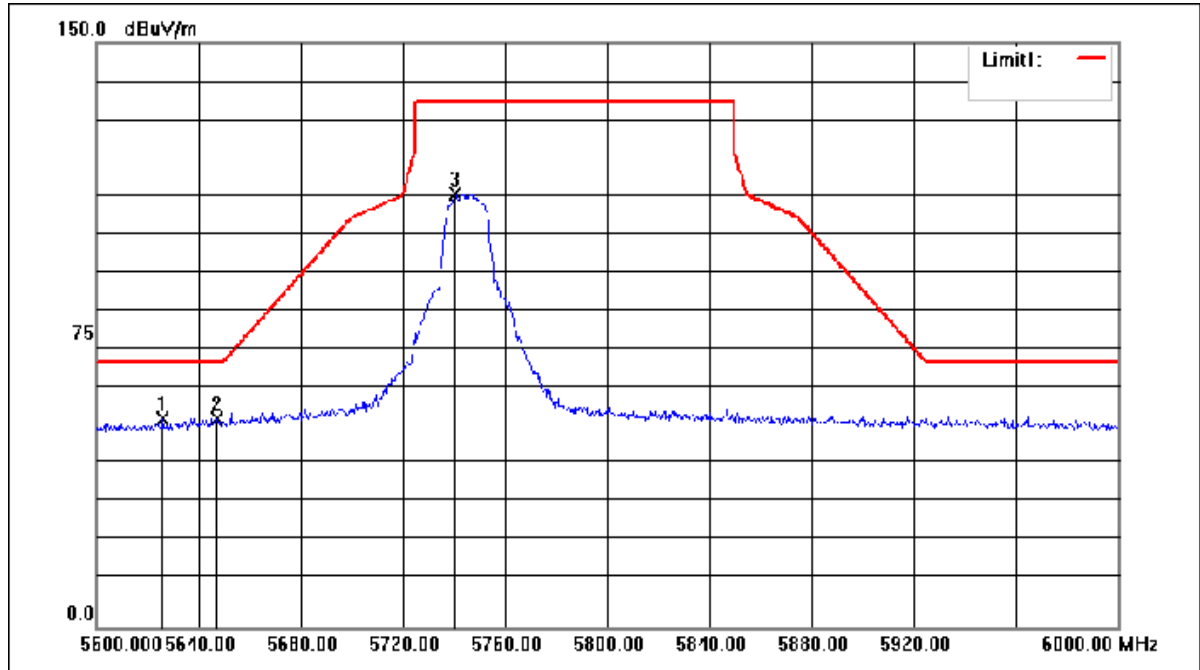


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5620.000	58.36	-6.92	51.44	68.20	-16.76	peak
2	5627.200	58.02	-6.90	51.12	68.20	-17.08	peak
3	5746.800	97.28	-6.60	90.68	135.00	-44.32	peak



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

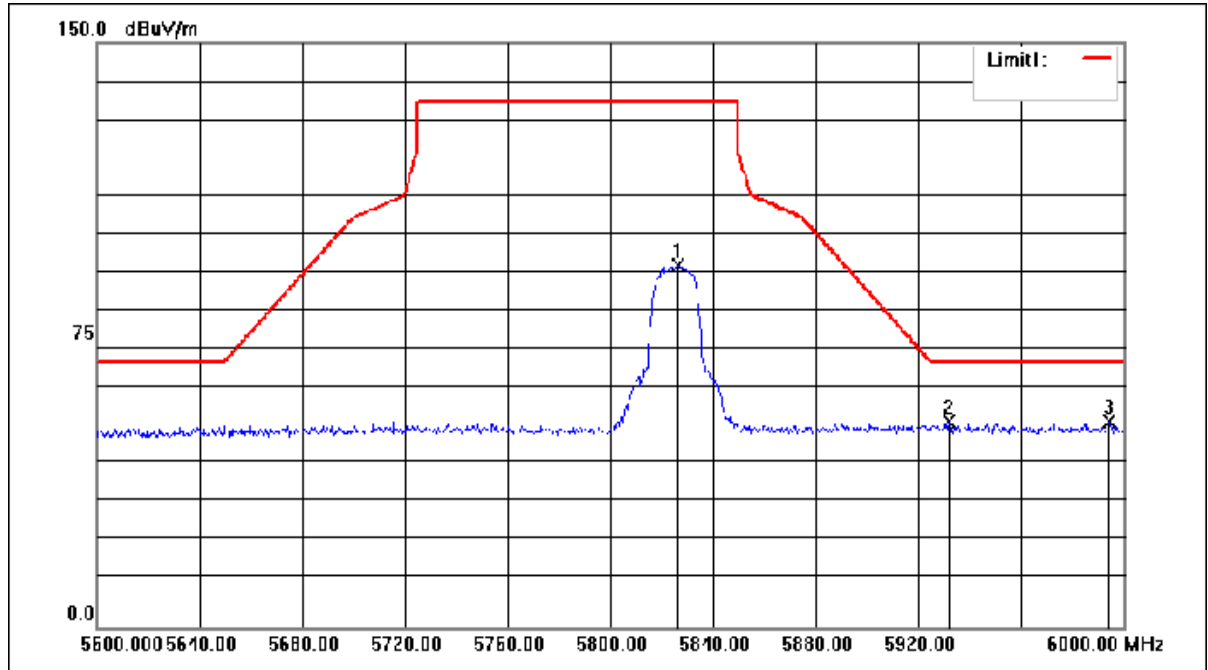


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5626.000	60.39	-6.90	53.49	68.20	-14.71	peak
2	5647.200	60.40	-6.85	53.55	68.20	-14.65	peak
3	5740.400	117.90	-6.61	111.29	135.00	-23.71	peak



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

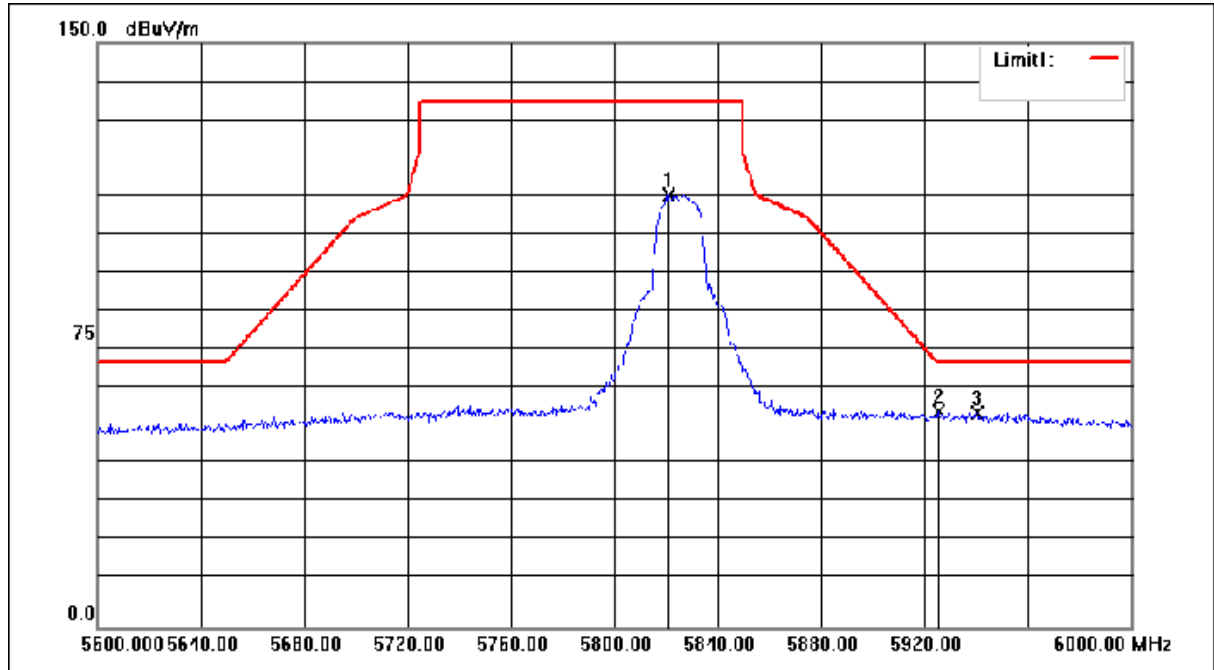


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.400	99.14	-6.32	92.82	135.00	-42.18	peak
2	5932.000	58.52	-5.73	52.79	68.20	-15.41	peak
3	5994.400	58.20	-5.39	52.81	68.20	-15.39	peak



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

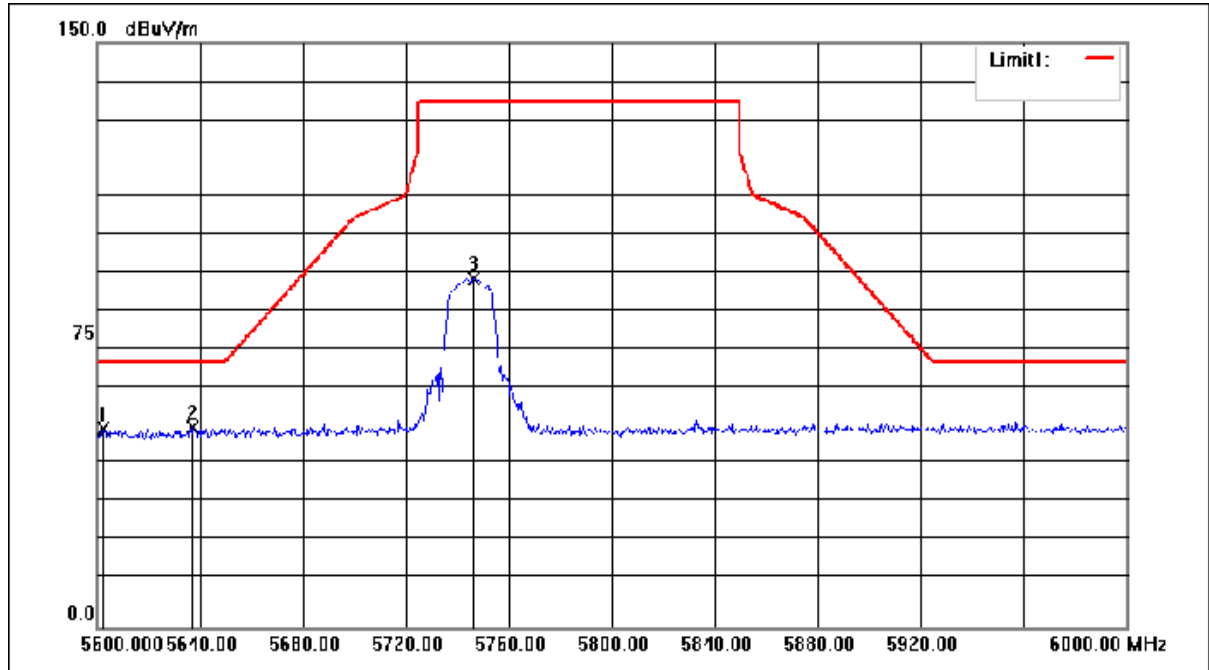


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5820.800	117.28	-6.35	110.93	135.00	-24.07	peak
2	5925.600	60.92	-5.77	55.15	68.20	-13.05	peak
3	5940.400	60.74	-5.69	55.05	68.20	-13.15	peak



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

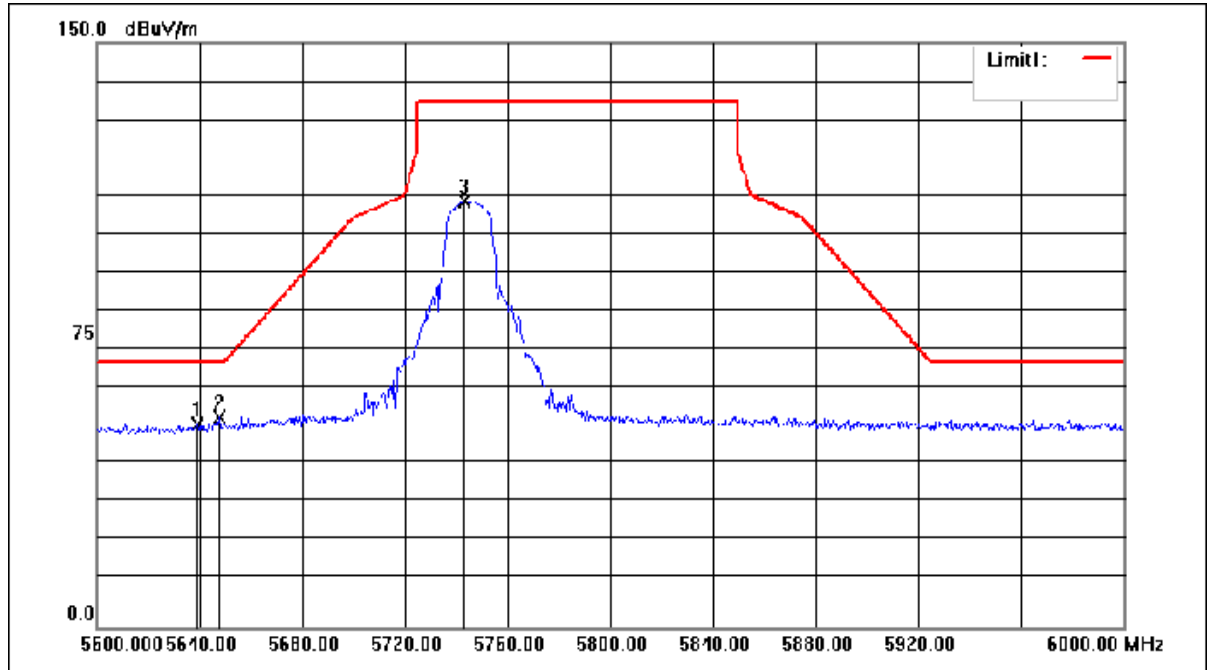


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5602.400	57.89	-6.97	50.92	68.20	-17.28	peak
2	5636.800	58.10	-6.87	51.23	68.20	-16.97	peak
3	5746.400	96.06	-6.60	89.46	135.00	-45.54	peak



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

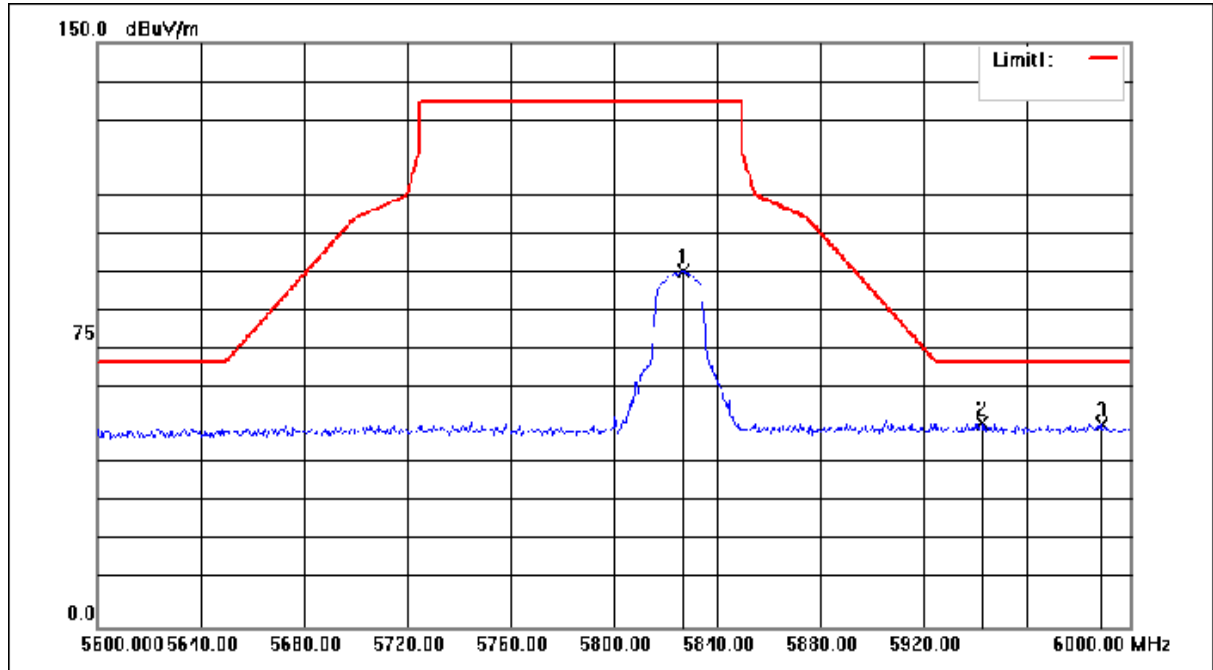


No.	Frequency (MHz)	Reading (dBUV)	Correction factor(dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	5639.200	58.92	-6.87	52.05	68.20	-16.15	peak
2	5647.600	60.82	-6.85	53.97	68.20	-14.23	peak
3	5743.200	116.07	-6.61	109.46	135.00	-25.54	peak



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



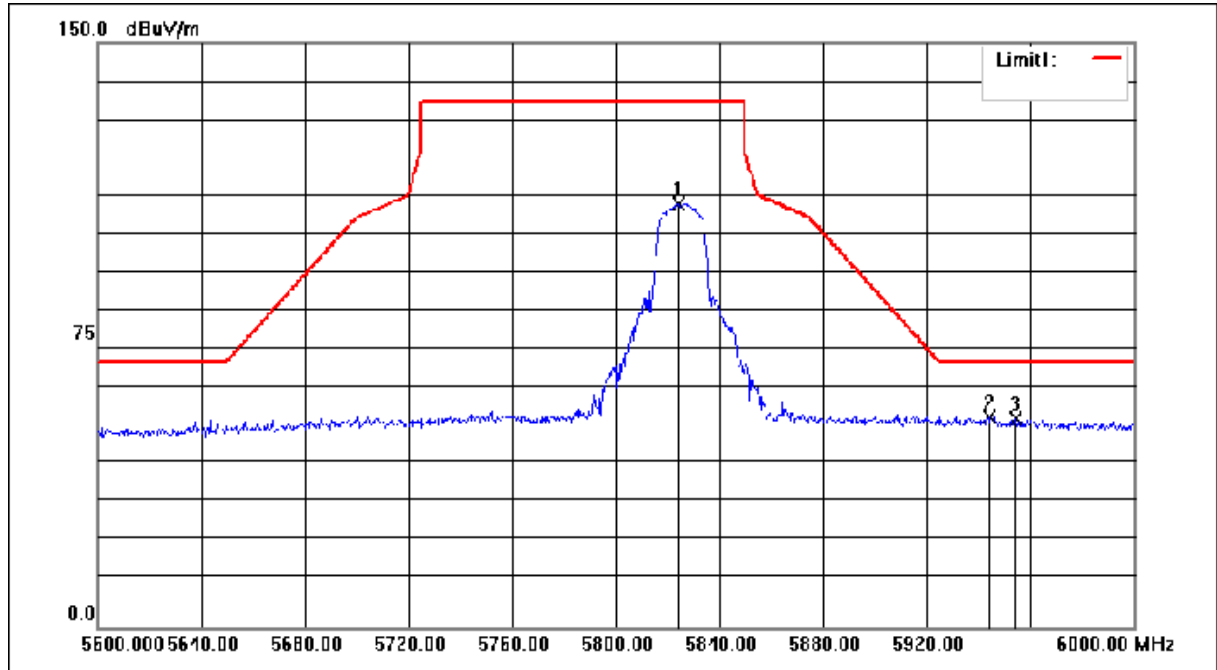
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.800	97.52	-6.31	91.21	135.00	-43.79	peak
2	5942.800	58.06	-5.67	52.39	68.20	-15.81	peak
3	5988.800	57.49	-5.42	52.07	68.20	-16.13	peak



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

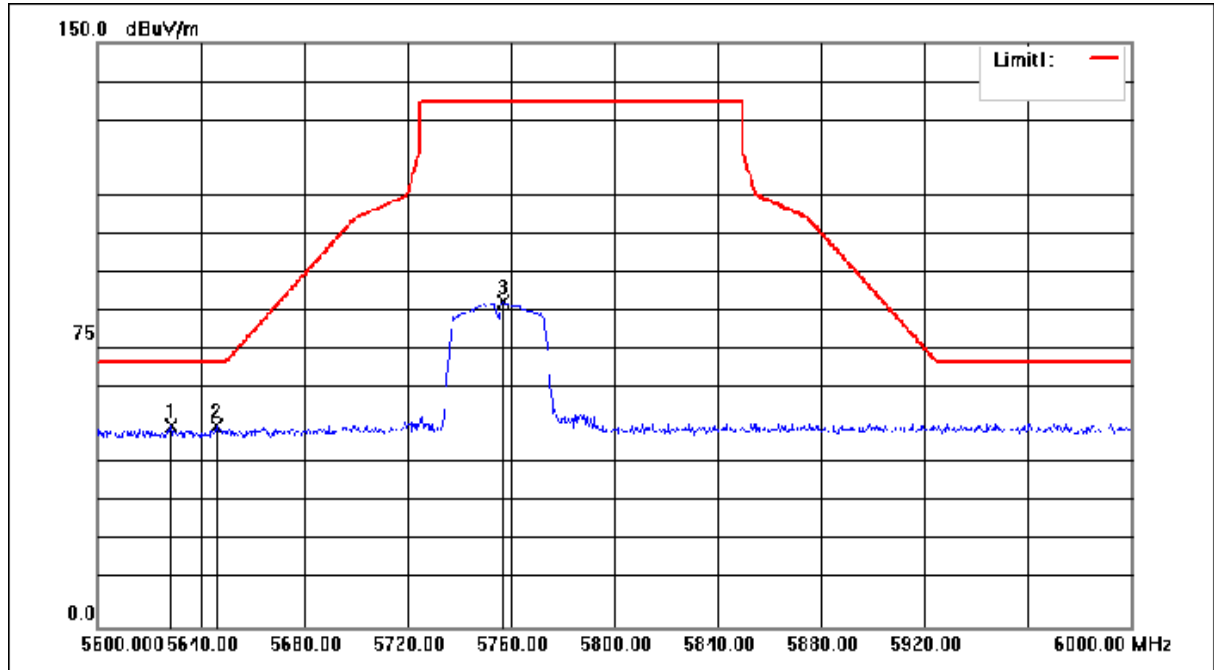


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5824.000	114.97	-6.32	108.65	135.00	-26.35	peak
2	5944.000	59.44	-5.67	53.77	68.20	-14.43	peak
3	5954.400	59.13	-5.62	53.51	68.20	-14.69	peak



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

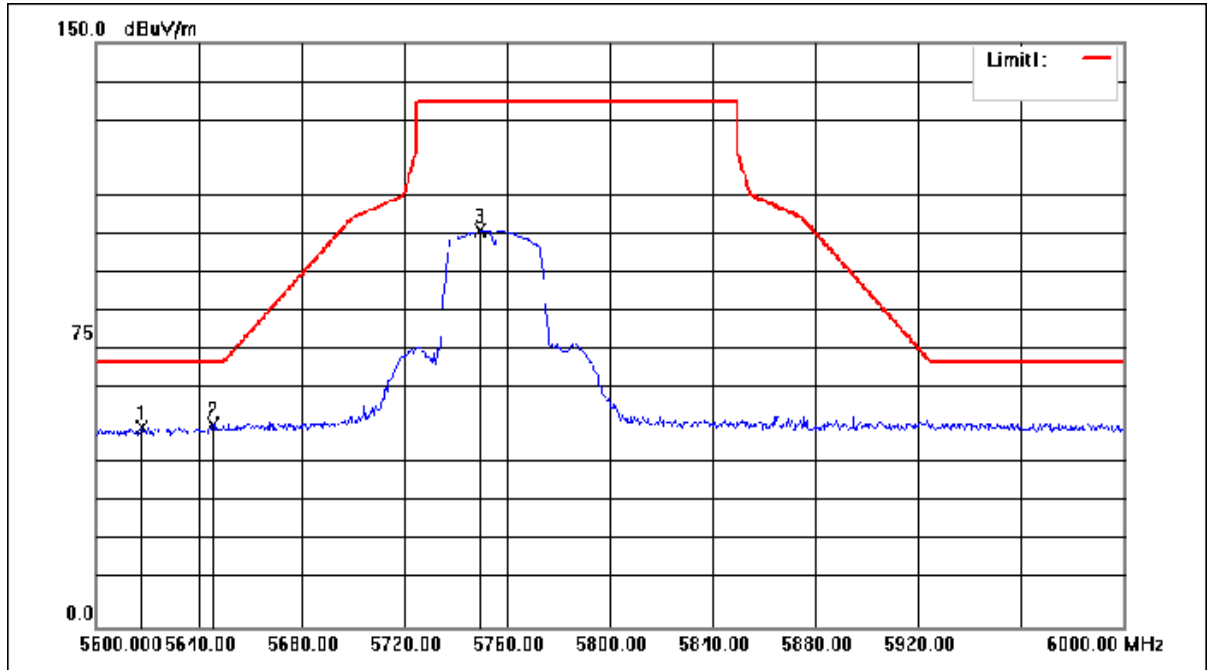


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5628.400	58.44	-6.90	51.54	68.20	-16.66	peak
2	5646.000	58.28	-6.85	51.43	68.20	-16.77	peak
3	5757.200	89.87	-6.56	83.31	135.00	-51.69	peak



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

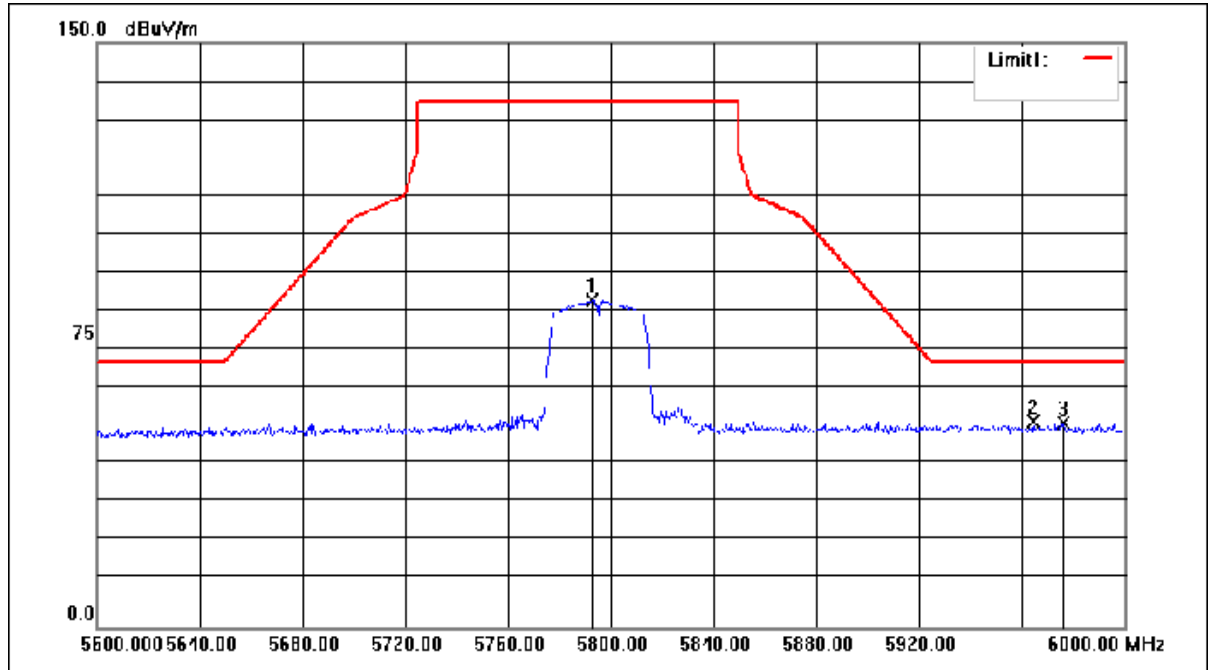


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5618.000	58.26	-6.92	51.34	68.20	-16.86	peak
2	5645.600	58.69	-6.85	51.84	68.20	-16.36	peak
3	5749.600	108.58	-6.59	101.99	135.00	-33.01	peak



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

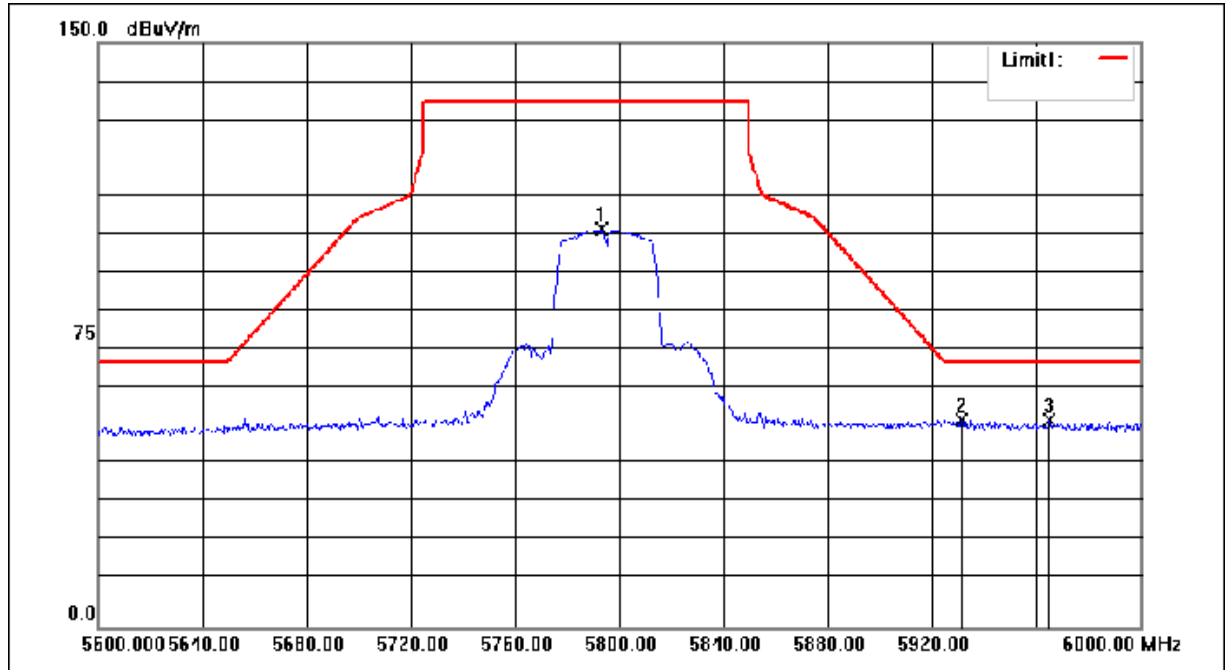


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5792.800	90.30	-6.48	83.82	135.00	-51.18	peak
2	5964.400	58.40	-5.55	52.85	68.20	-15.35	peak
3	5976.400	57.82	-5.49	52.33	68.20	-15.87	peak



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

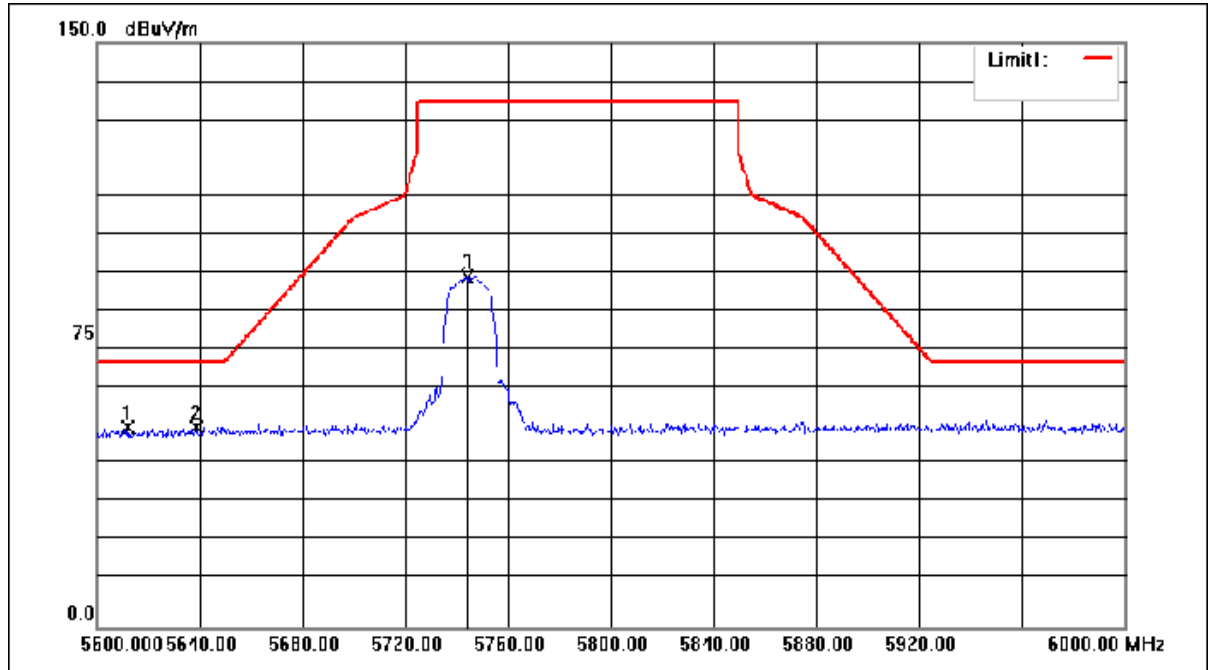


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5793.200	108.50	-6.48	102.02	135.00	-32.98	peak
2	5931.600	58.93	-5.73	53.20	68.20	-15.00	peak
3	5965.200	58.45	-5.56	52.89	68.20	-15.31	peak



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

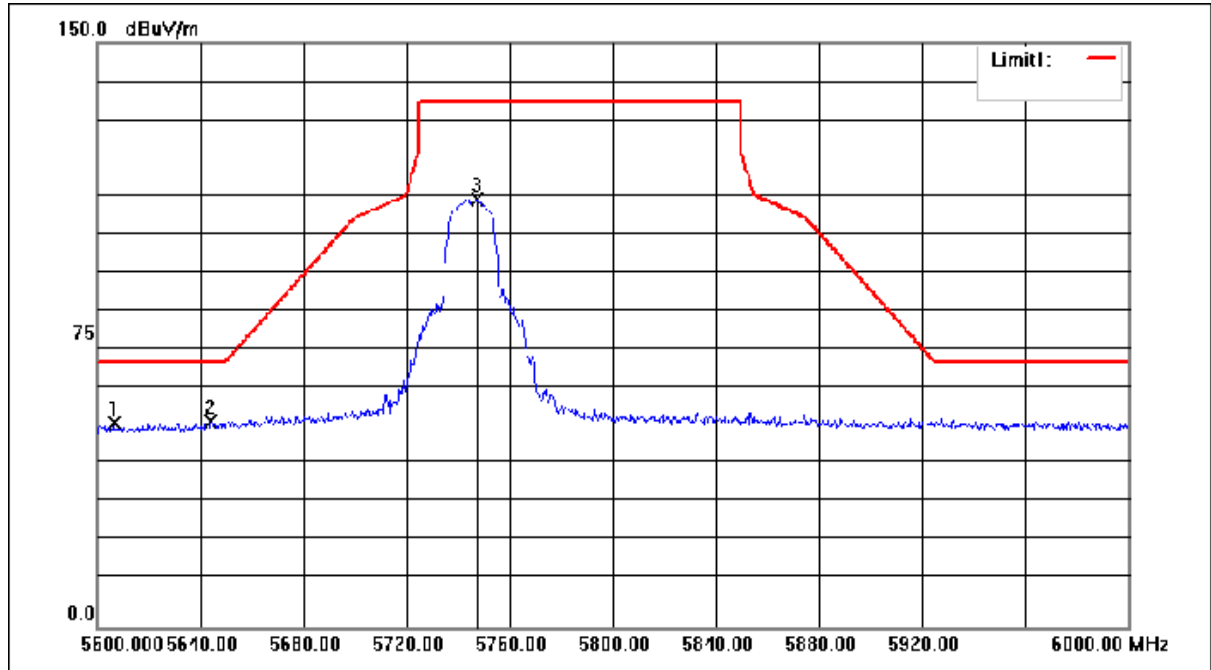


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5612.000	57.97	-6.94	51.03	68.20	-17.17	peak
2	5638.800	58.06	-6.87	51.19	68.20	-17.01	peak
3	5744.000	96.39	-6.60	89.79	135.00	-45.21	peak



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Mode:c; 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	5606.400	59.18	-6.95	52.23	68.20	-15.97	peak
2	5644.000	59.59	-6.85	52.74	68.20	-15.46	peak
3	5747.600	116.25	-6.60	109.65	135.00	-25.35	peak



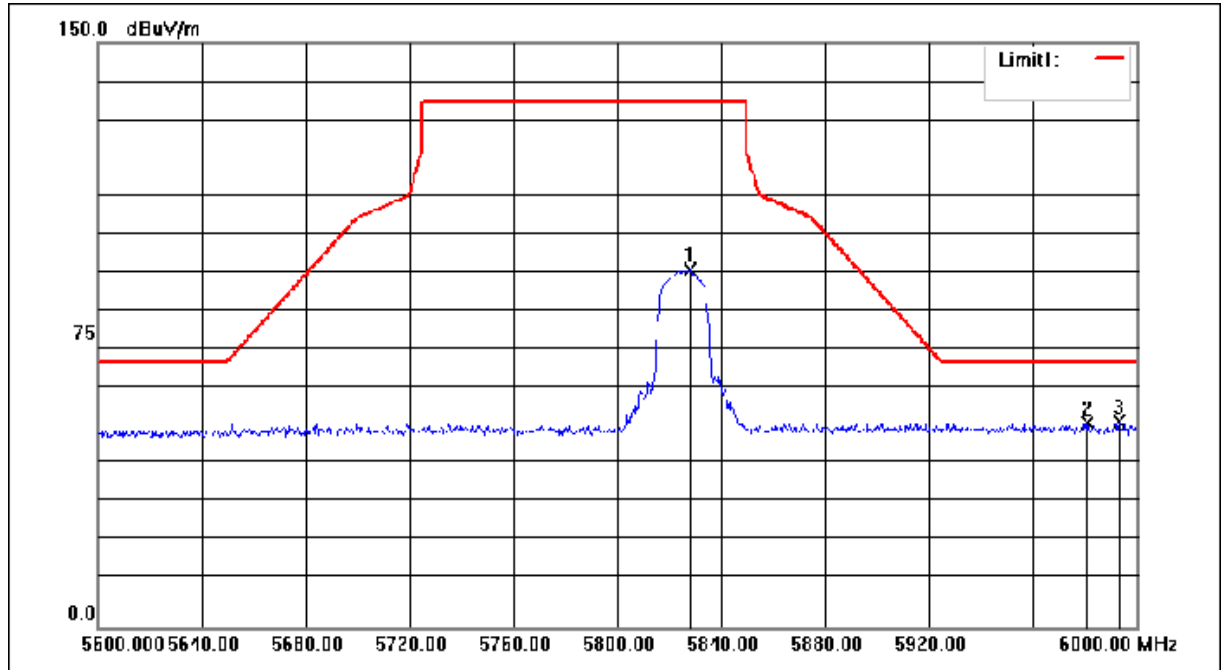
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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



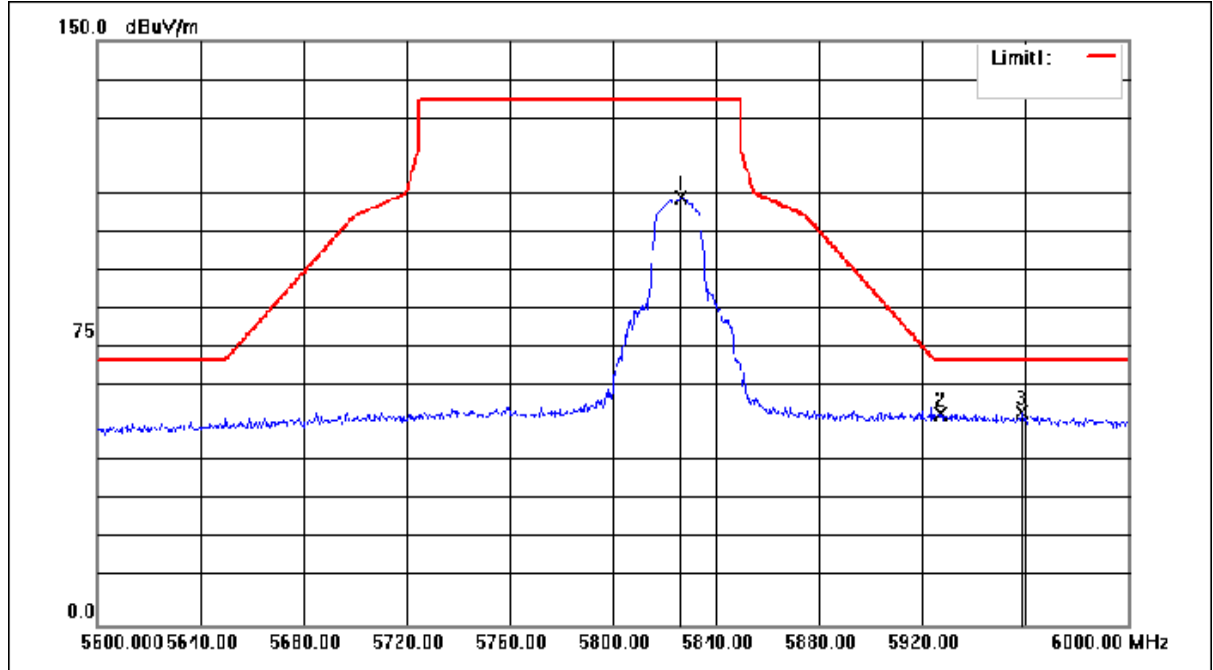
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5828.000	97.87	-6.30	91.57	135.00	-43.43	peak
2	5981.200	57.85	-5.47	52.38	68.20	-15.82	peak
3	5993.200	58.16	-5.40	52.76	68.20	-15.44	peak



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

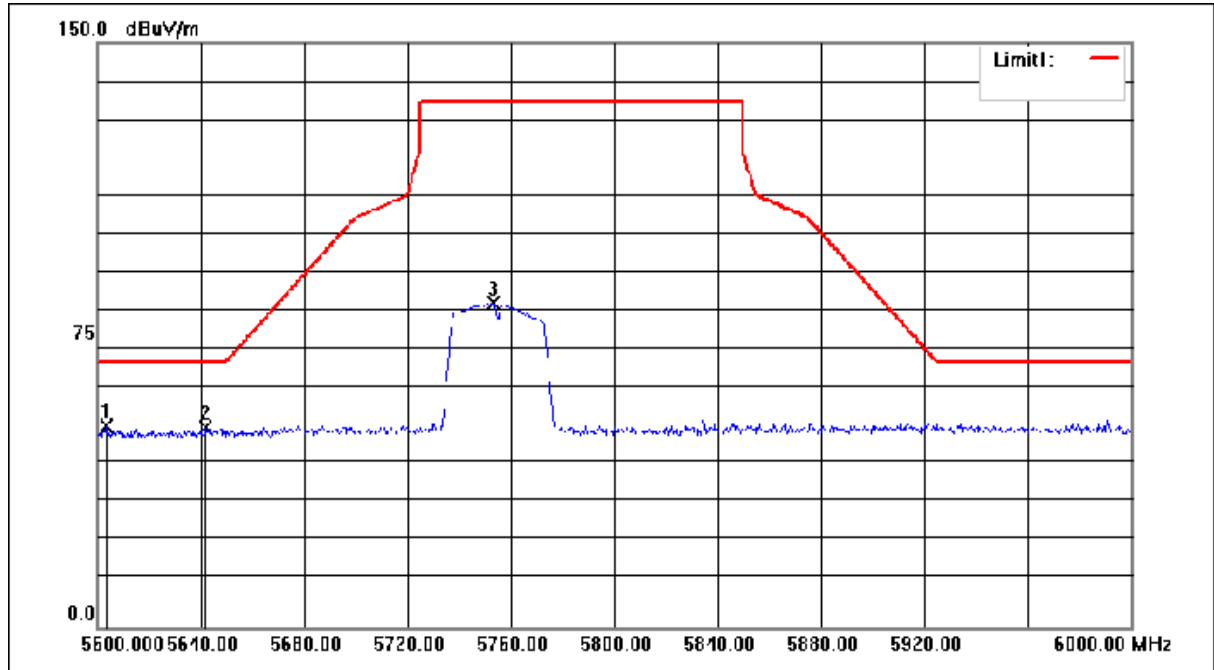


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.400	115.91	-6.32	109.59	135.00	-25.41	peak
2	5927.200	60.00	-5.77	54.23	68.20	-13.97	peak
3	5958.800	60.01	-5.58	54.43	68.20	-13.77	peak



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

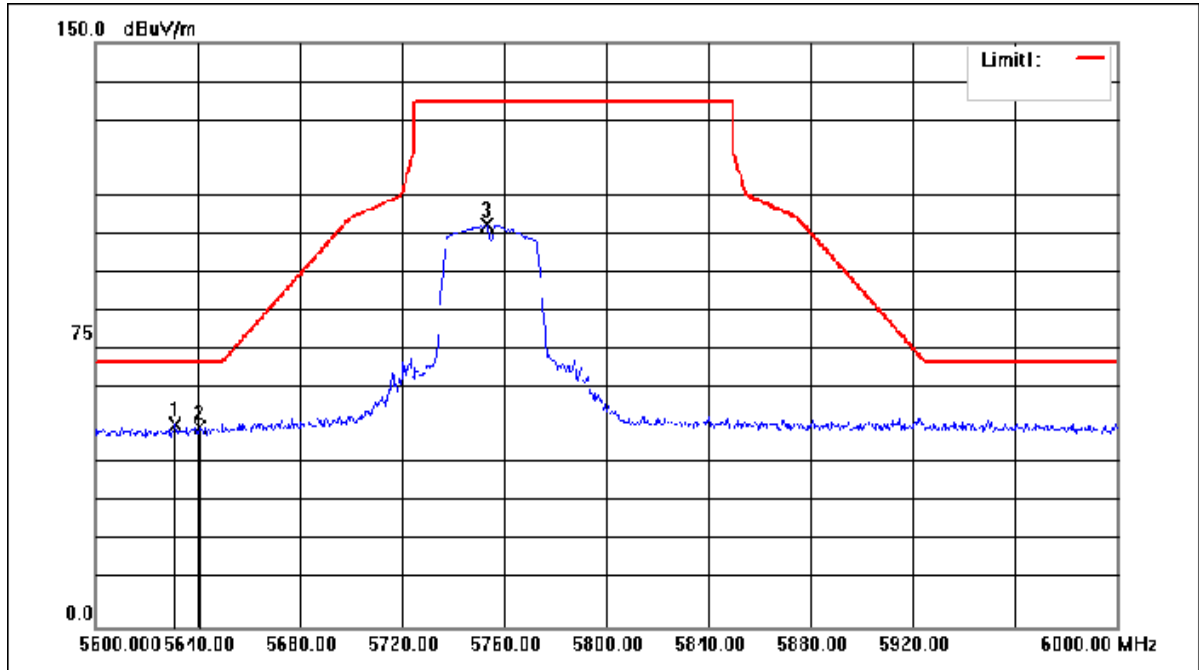


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5603.200	58.38	-6.97	51.41	68.20	-16.79	peak
2	5642.000	57.96	-6.87	51.09	68.20	-17.11	peak
3	5753.200	89.69	-6.58	83.11	135.00	-51.89	peak



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

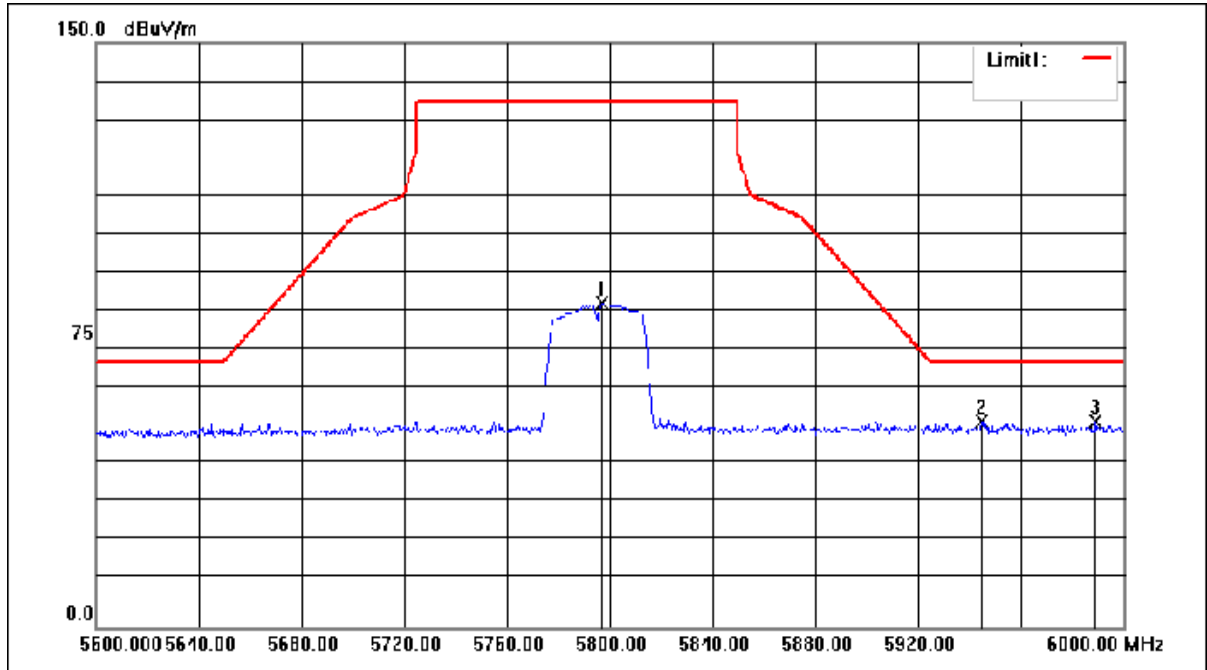


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5631.200	58.65	-6.89	51.76	68.20	-16.44	peak
2	5640.800	58.06	-6.87	51.19	68.20	-17.01	peak
3	5753.200	109.77	-6.58	103.19	135.00	-31.81	peak



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

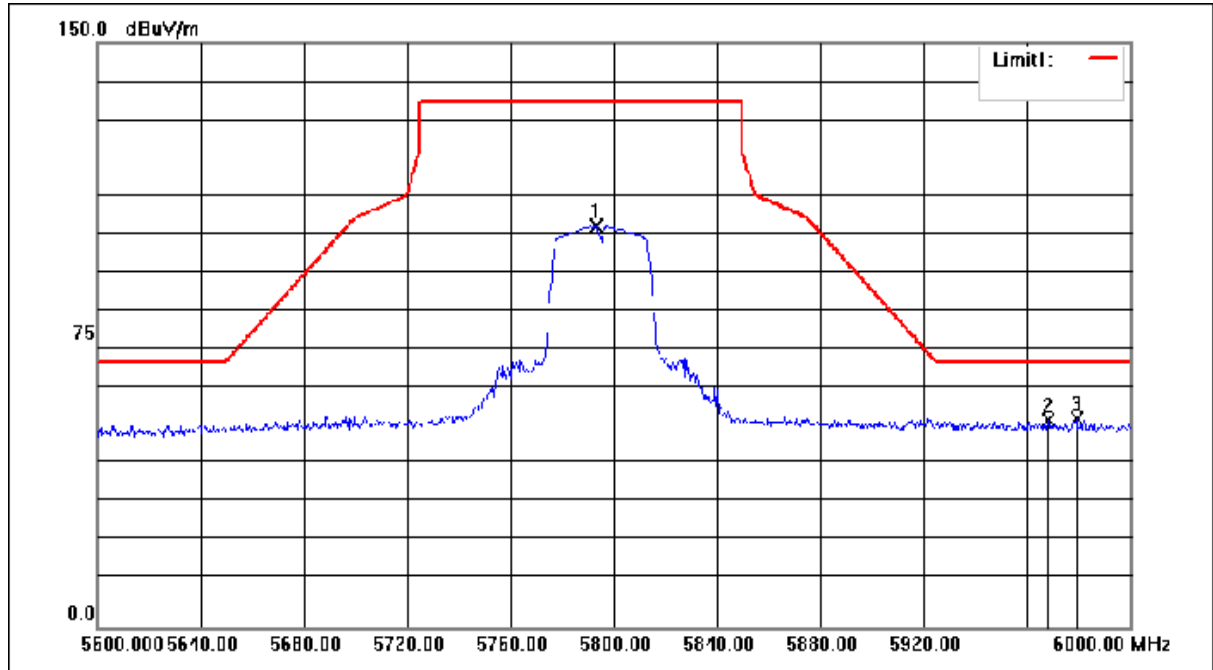


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5797.200	89.38	-6.46	82.92	135.00	-52.08	peak
2	5944.800	58.52	-5.67	52.85	68.20	-15.35	peak
3	5989.200	58.01	-5.42	52.59	68.20	-15.61	peak



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Mode:c; 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	5793.200	109.51	-6.48	103.03	135.00	-31.97	peak
2	5968.000	58.72	-5.54	53.18	68.20	-15.02	peak
3	5979.200	58.85	-5.47	53.38	68.20	-14.82	peak



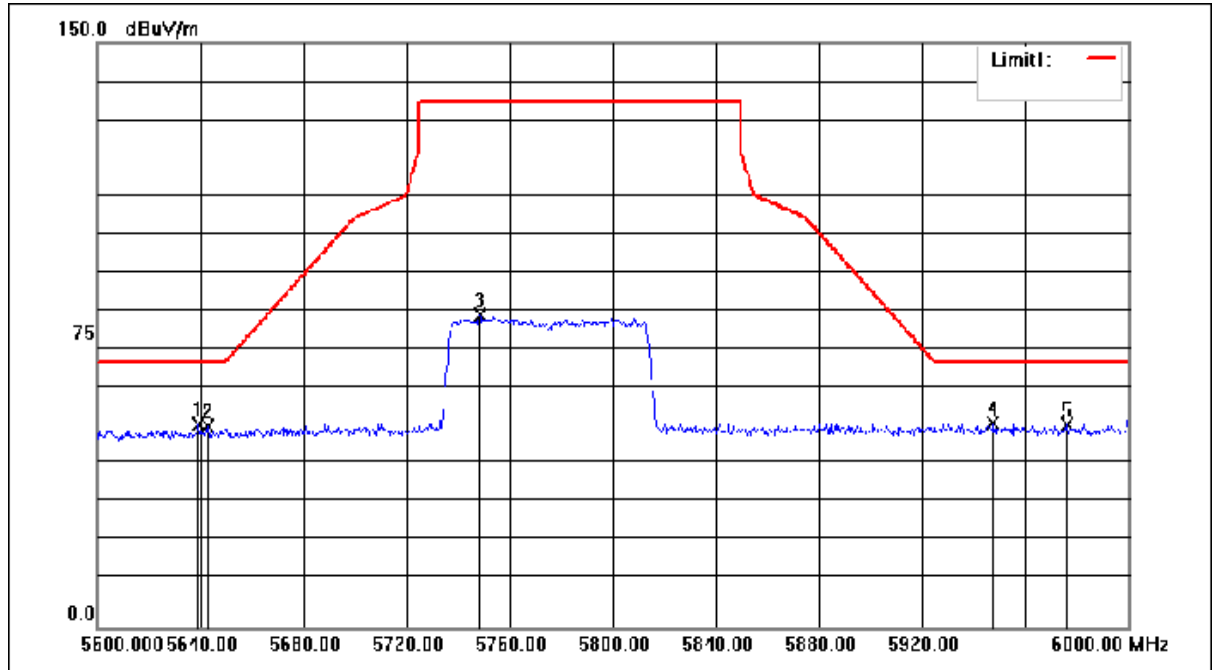
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low

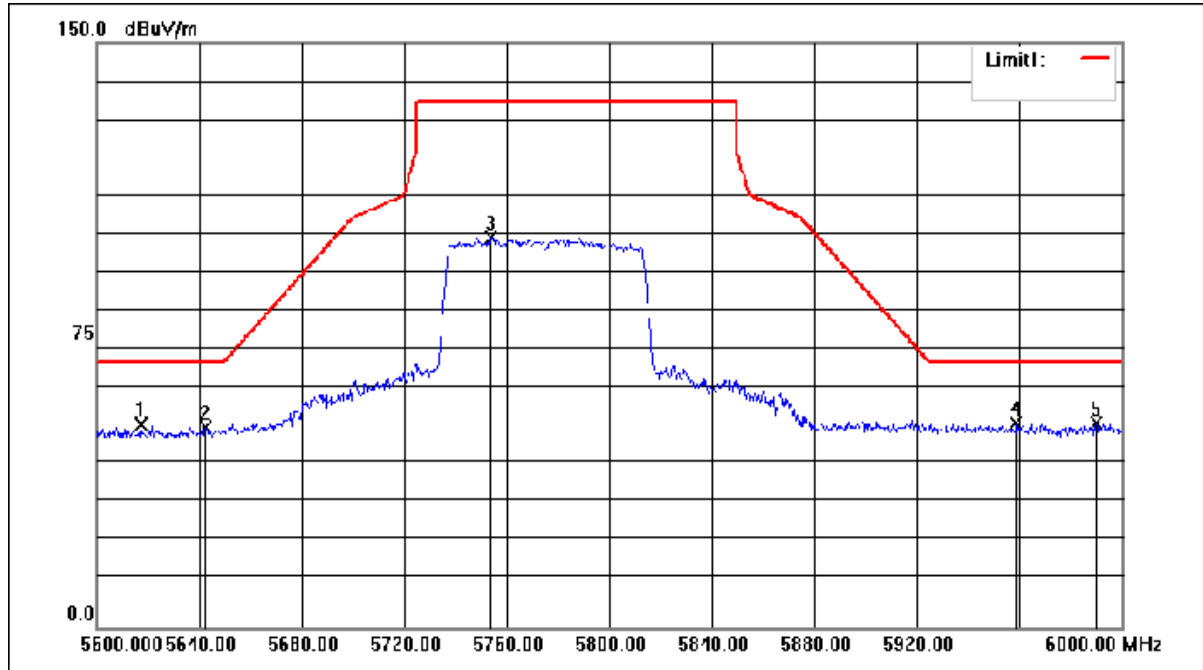


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5639.200	58.83	-6.87	51.96	68.20	-16.24	peak
2	5642.800	58.34	-6.87	51.47	68.20	-16.73	peak
3	5748.400	86.53	-6.59	79.94	135.00	-55.06	peak
4	5947.600	58.13	-5.65	52.48	68.20	-15.72	peak
5	5976.000	57.42	-5.50	51.92	68.20	-16.28	peak



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Mode:c; 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	5617.200	58.82	-6.92	51.90	68.20	-16.30	peak
2	5642.400	58.24	-6.87	51.37	68.20	-16.83	peak
3	5754.000	106.58	-6.58	100.00	135.00	-35.00	peak
4	5958.800	58.05	-5.58	52.47	68.20	-15.73	peak
5	5990.000	57.64	-5.41	52.23	68.20	-15.97	peak

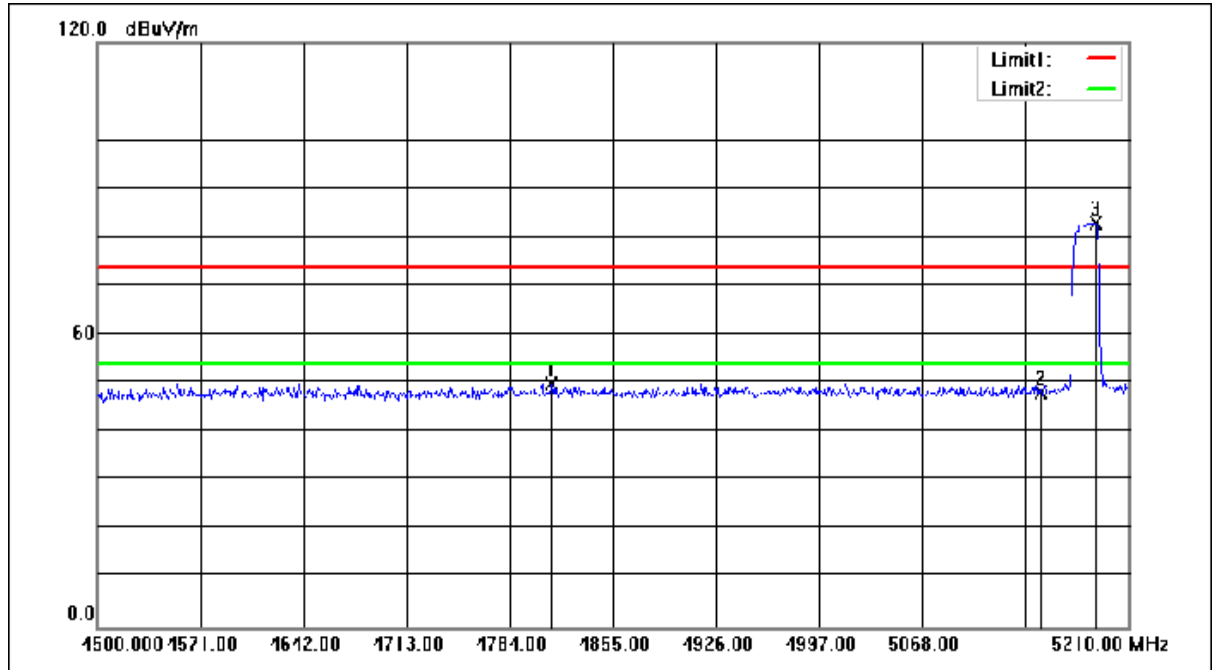


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Mode:h; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4813.110	58.92	-8.83	50.09	74.00	-23.91	peak
2	5150.000	55.94	-7.84	48.10	74.00	-25.90	peak
3	5187.280	90.86	-7.76	83.10	74.00	9.10	peak



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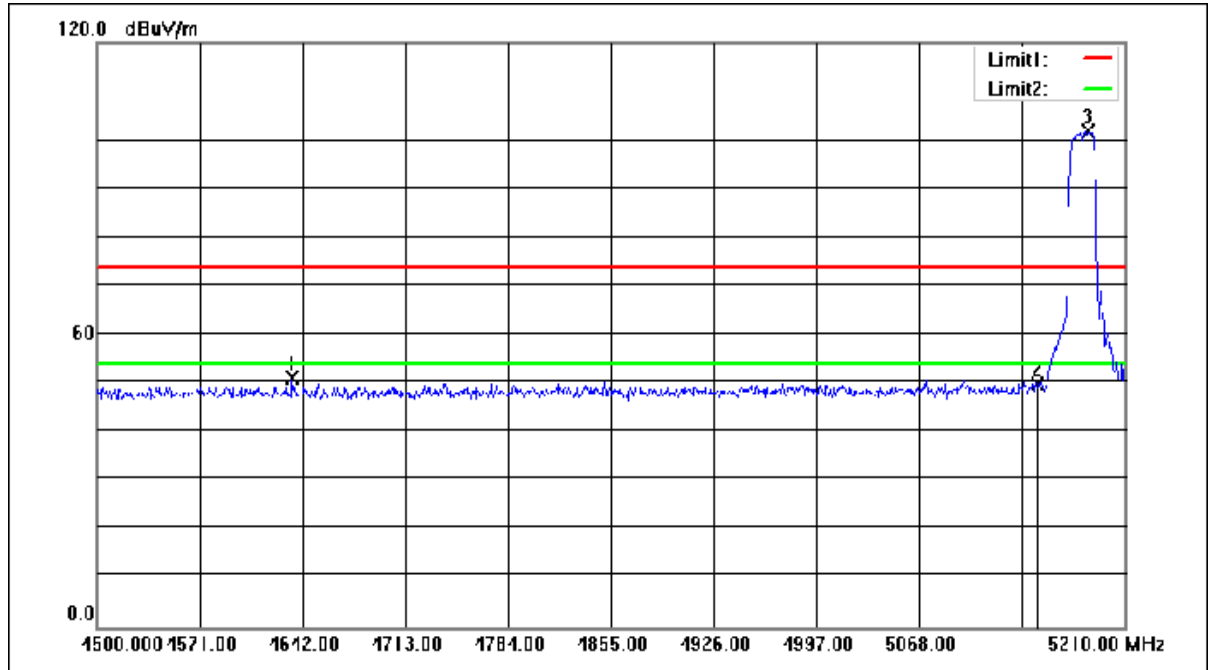
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Mode:h; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4634.900	59.80	-8.58	51.22	74.00	-22.78	peak
2	5150.000	57.65	-7.84	49.81	74.00	-24.19	peak
3	5185.150	109.55	-7.76	101.79	74.00	27.79	peak



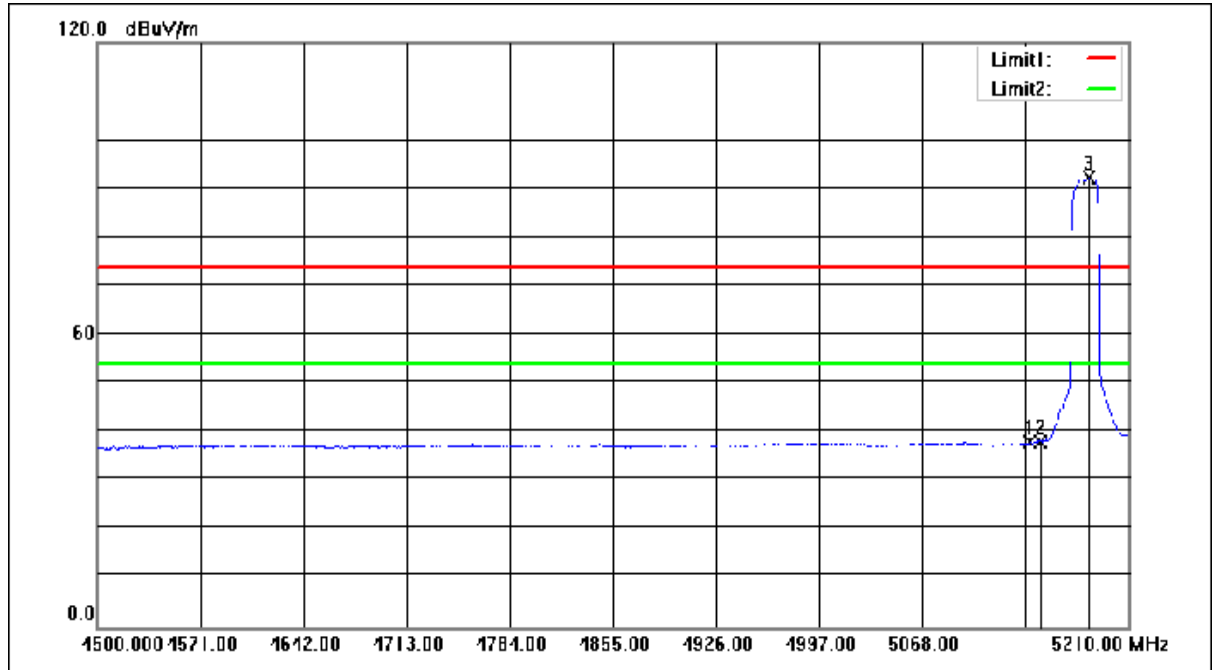
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Mode:h; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.550	45.81	-7.86	37.95	54.00	-16.05	AVG
2	5150.000	45.82	-7.84	37.98	54.00	-16.02	AVG
3	5183.020	99.96	-7.76	92.20	54.00	38.20	AVG



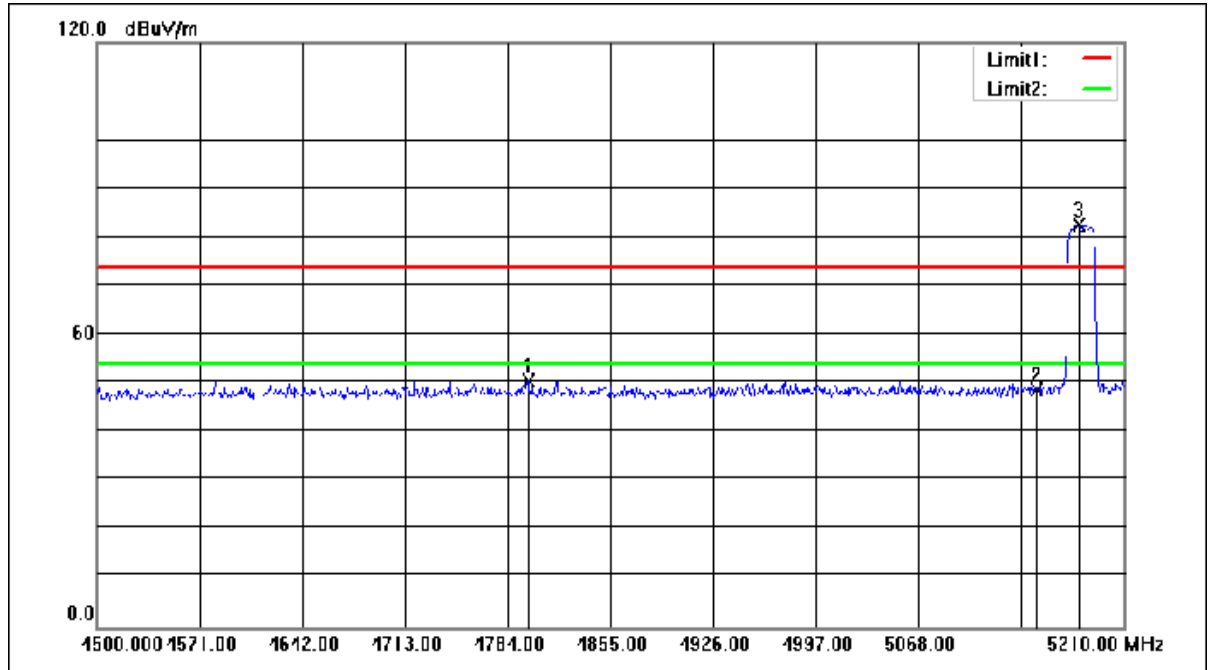
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Mode:h; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

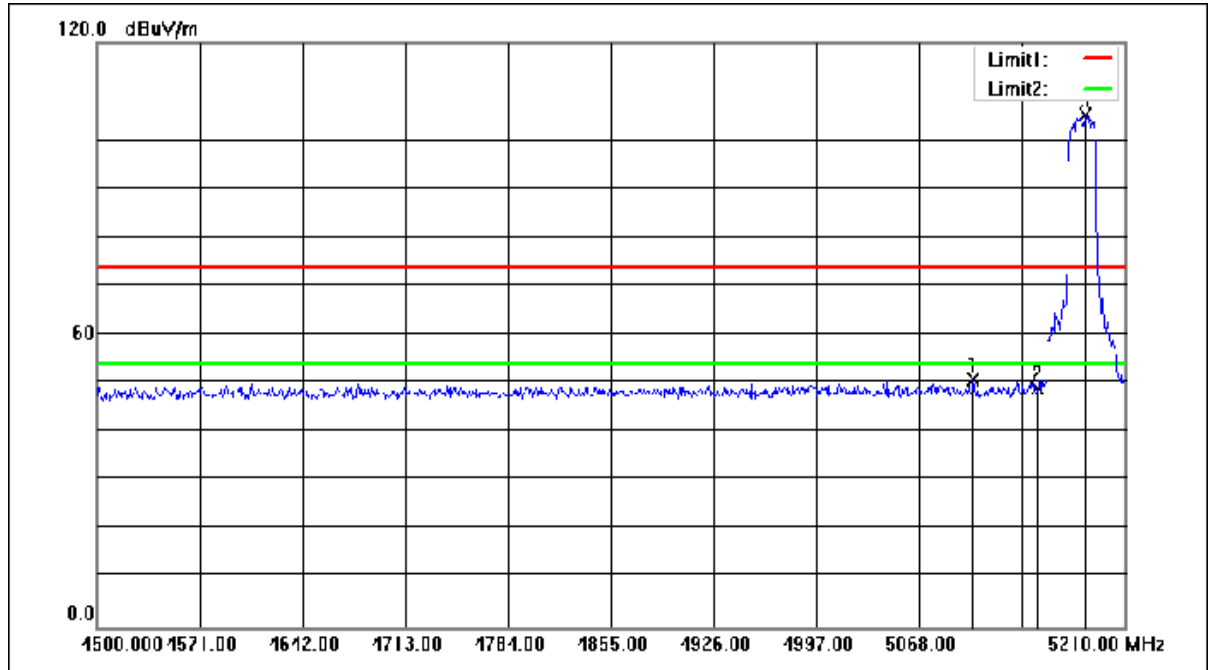


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4798.200	59.34	-8.87	50.47	74.00	-23.53	peak
2	5150.000	56.46	-7.84	48.62	74.00	-25.38	peak
3	5178.760	90.48	-7.78	82.70	74.00	8.70	peak



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

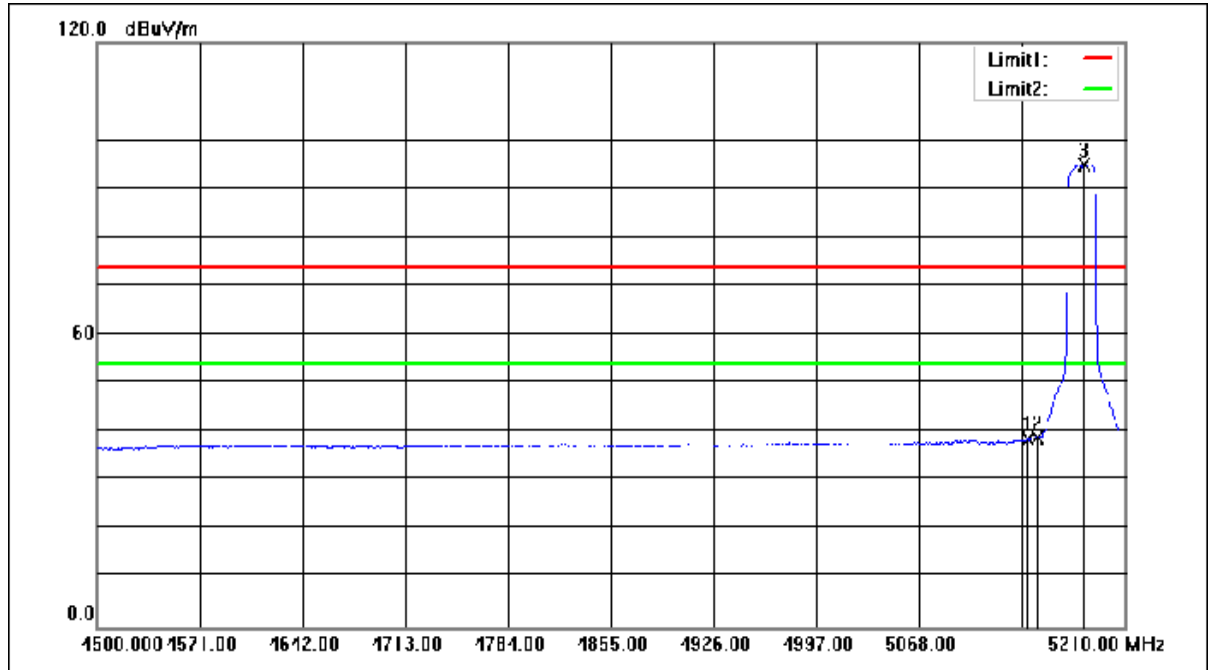


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5105.630	58.71	-7.95	50.76	74.00	-23.24	peak
2	5150.000	56.87	-7.84	49.03	74.00	-24.97	peak
3	5183.020	112.77	-7.76	105.01	74.00	31.01	peak



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

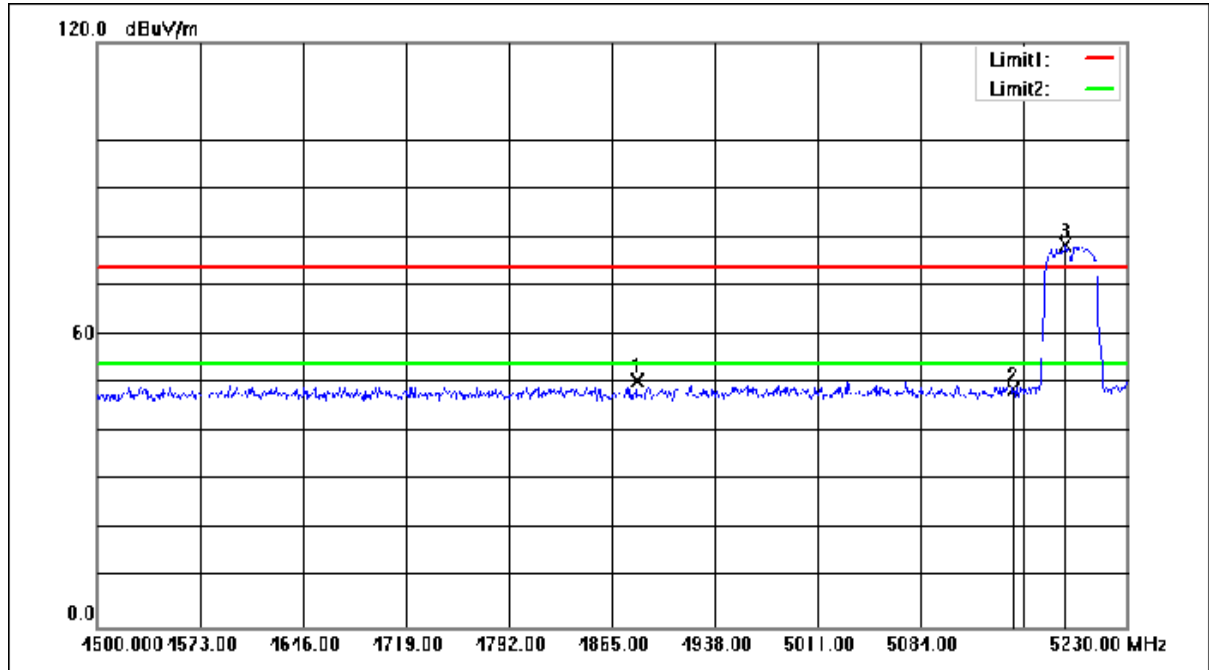


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.260	46.32	-7.86	38.46	54.00	-15.54	AVG
2	5150.000	46.70	-7.84	38.86	54.00	-15.14	AVG
3	5182.310	102.87	-7.77	95.10	54.00	41.10	AVG



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Mode:h; 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	4882.520	59.13	-8.58	50.55	74.00	-23.45	peak
2	5150.000	56.51	-7.84	48.67	74.00	-25.33	peak
3	5186.930	86.10	-7.76	78.34	74.00	4.34	peak



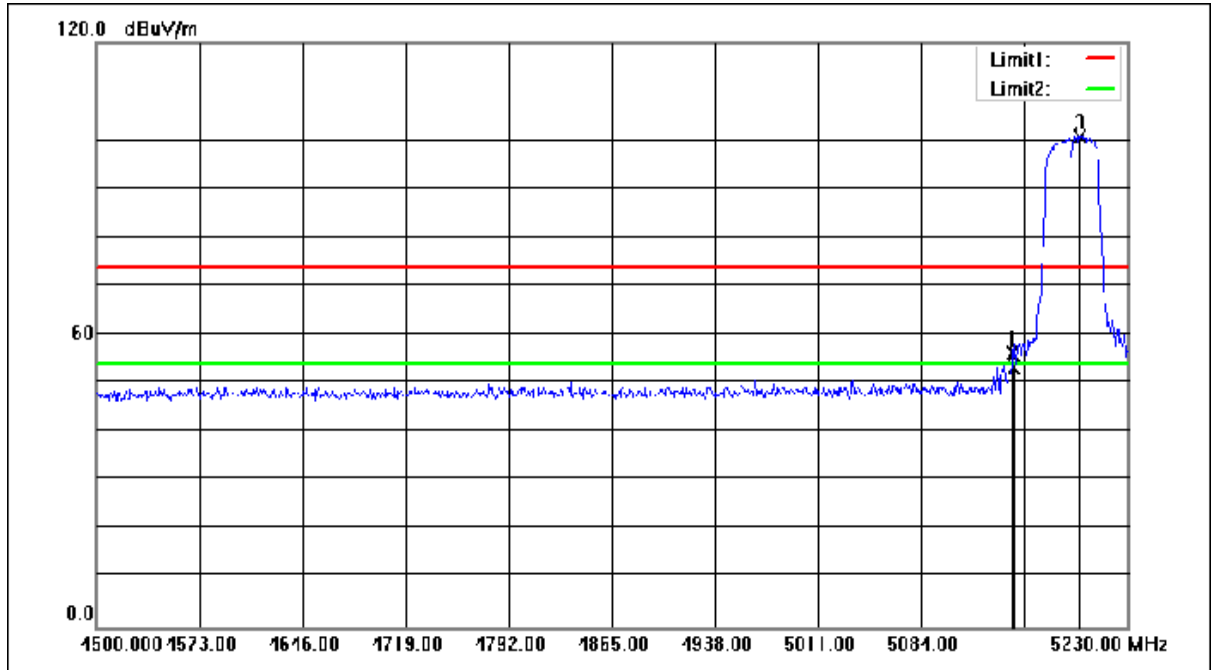
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Mode:h; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5148.970	64.16	-7.84	56.32	74.00	-17.68	peak
2	5150.000	61.22	-7.84	53.38	74.00	-20.62	peak
3	5196.420	108.45	-7.74	100.71	74.00	26.71	peak



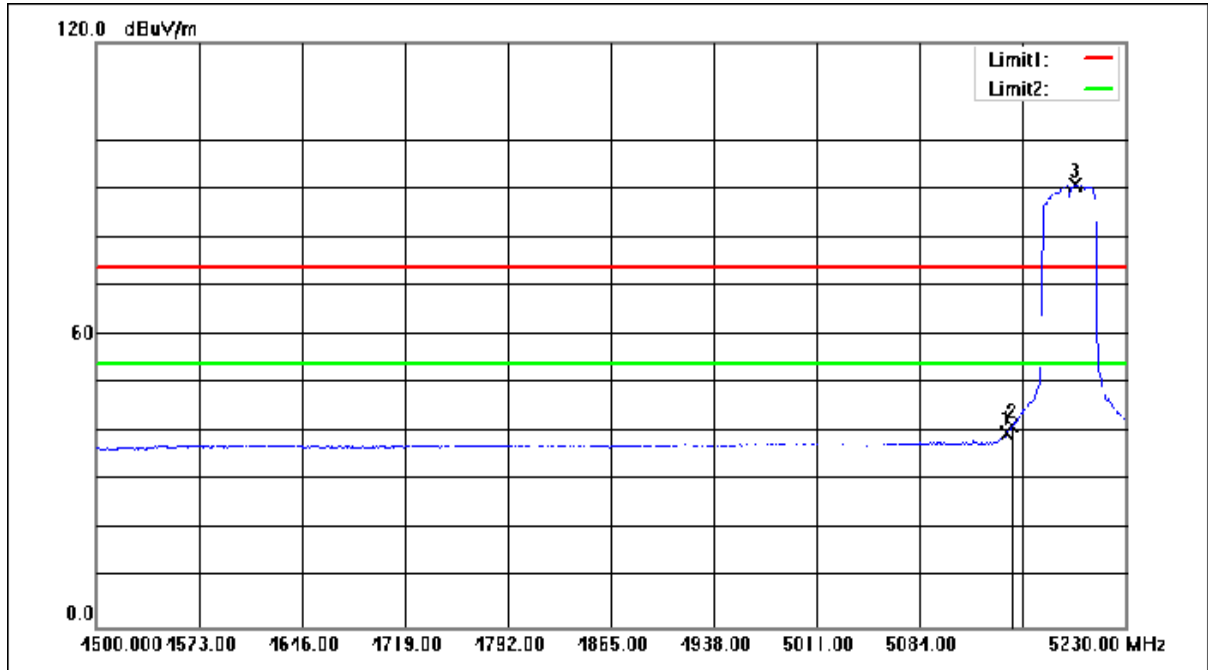
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Mode:h; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



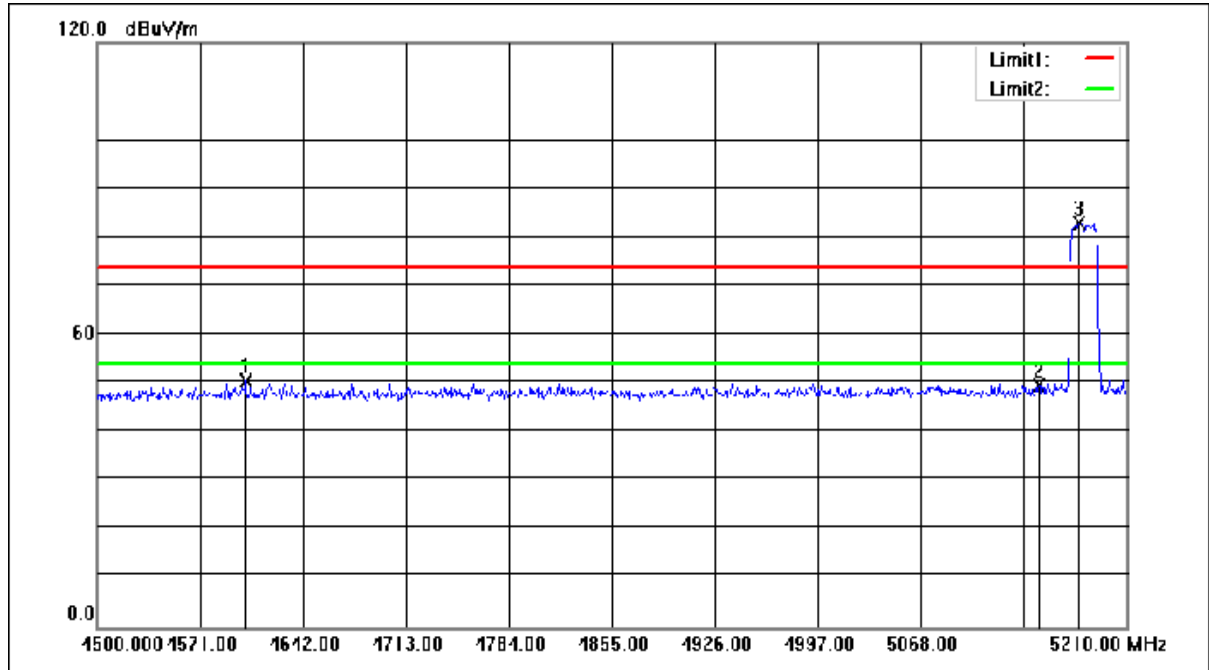
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.050	47.57	-7.85	39.72	54.00	-14.28	AVG
2	5150.000	49.12	-7.84	41.28	54.00	-12.72	AVG
3	5194.230	98.62	-7.75	90.87	54.00	36.87	AVG



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

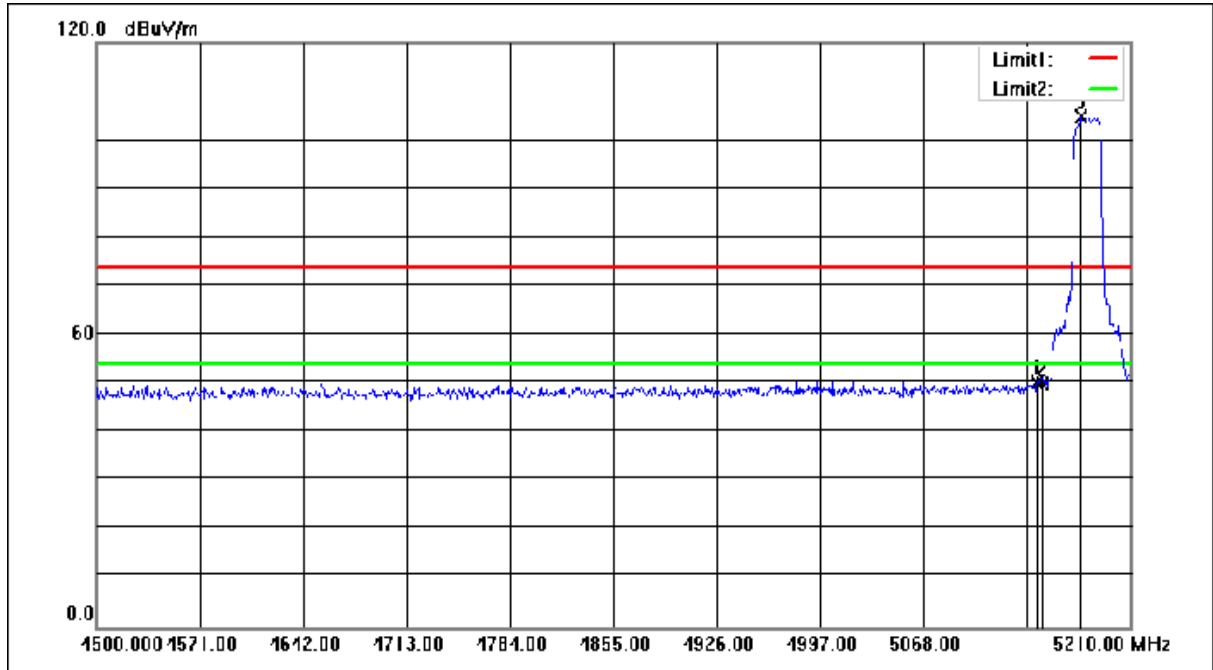


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4602.240	59.07	-8.53	50.54	74.00	-23.46	peak
2	5150.000	57.56	-7.84	49.72	74.00	-24.28	peak
3	5177.340	90.83	-7.78	83.05	74.00	9.05	peak



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Mode:h; 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	58.13	-7.85	50.28	74.00	-23.72	peak
2	5150.000	57.94	-7.84	50.10	74.00	-23.90	peak
3	5176.630	112.59	-7.78	104.81	74.00	30.81	peak



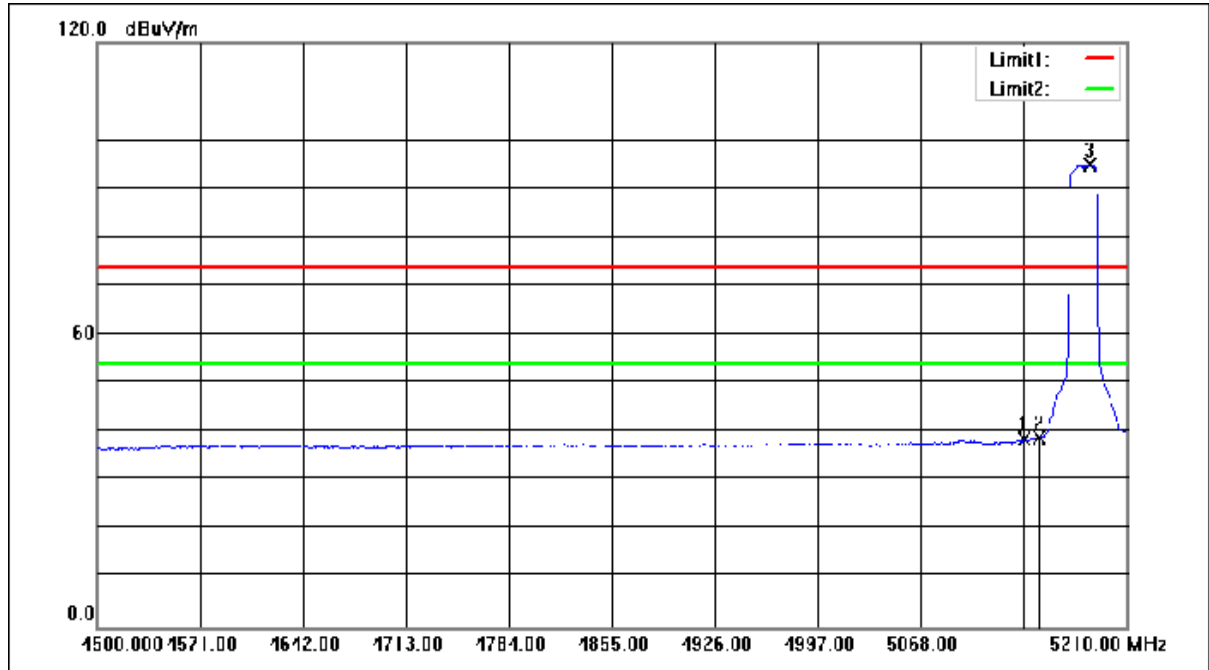
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Mode:h; 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	5139.710	46.41	-7.87	38.54	54.00	-15.46	AVG
2	5150.000	46.65	-7.84	38.81	54.00	-15.19	AVG
3	5185.150	102.80	-7.76	95.04	54.00	41.04	AVG



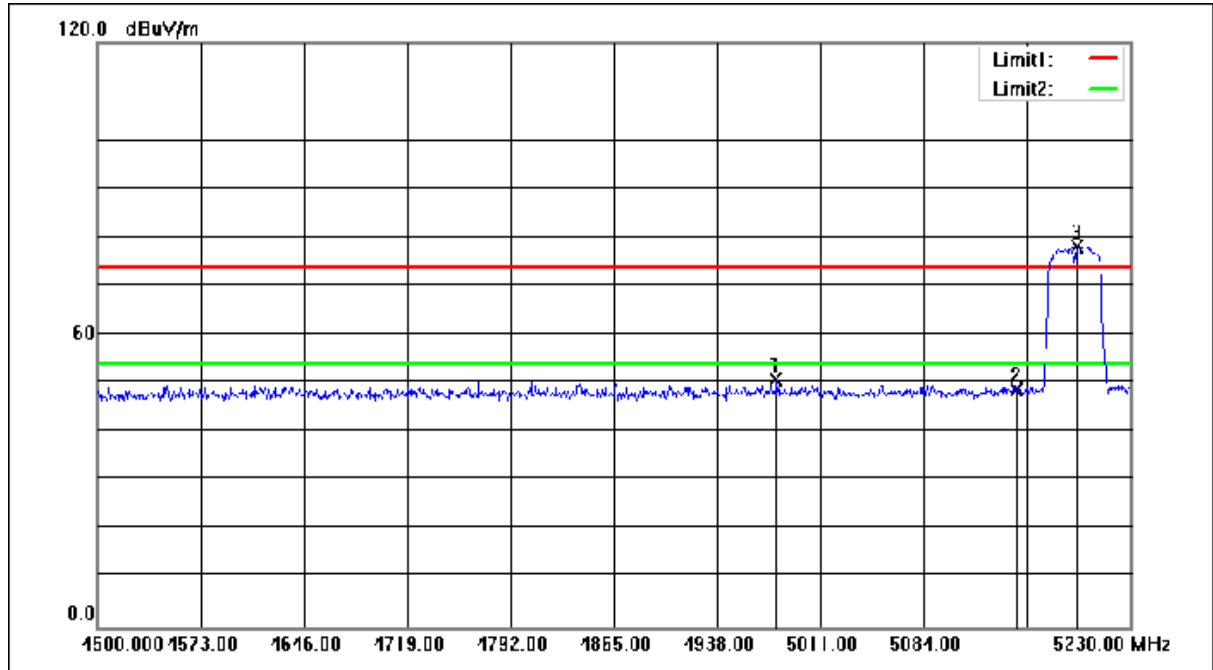
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Mode:h; 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	4979.610	59.00	-8.25	50.75	74.00	-23.25	peak
2	5150.000	56.64	-7.84	48.80	74.00	-25.20	peak
3	5192.770	86.00	-7.75	78.25	74.00	4.25	peak

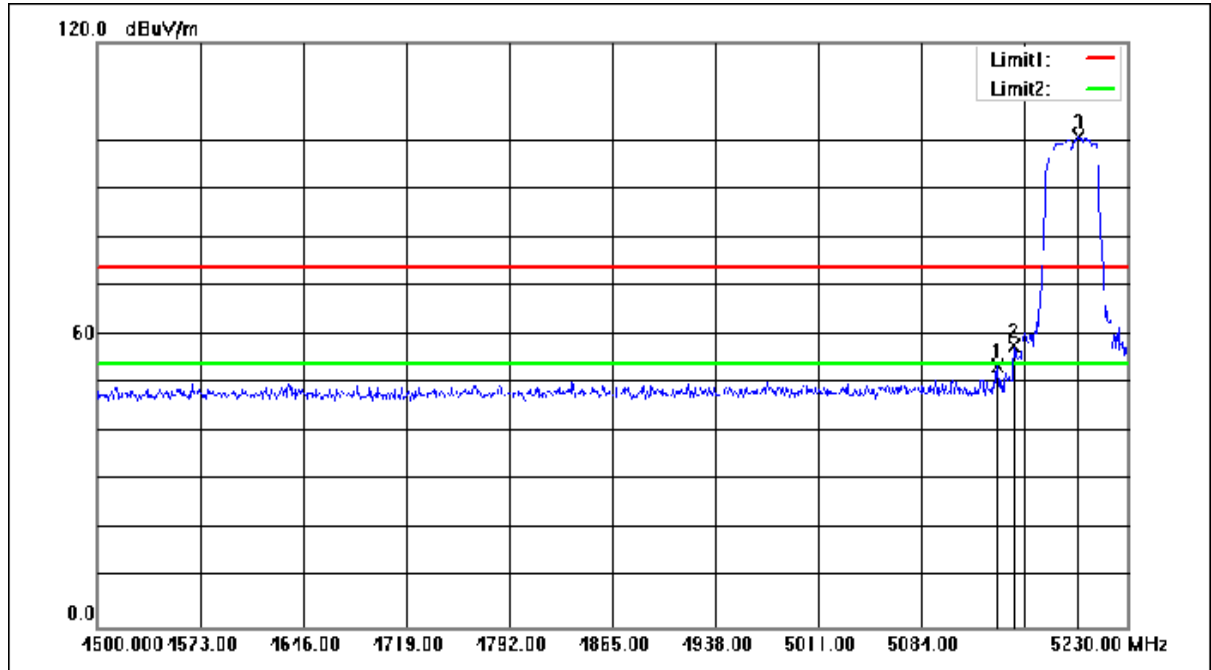


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Mode:h; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5138.020	61.40	-7.87	53.53	74.00	-20.47	peak
2	5150.000	65.57	-7.84	57.73	74.00	-16.27	peak
3	5194.960	108.36	-7.74	100.62	74.00	26.62	peak



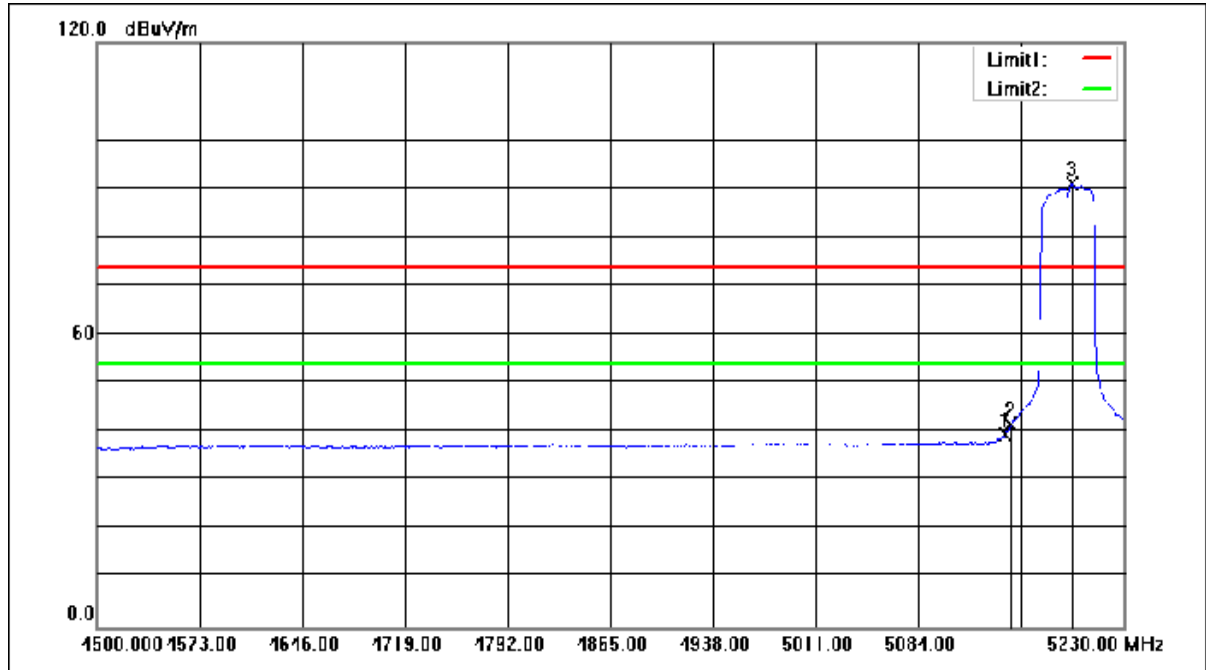
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Mode:h; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

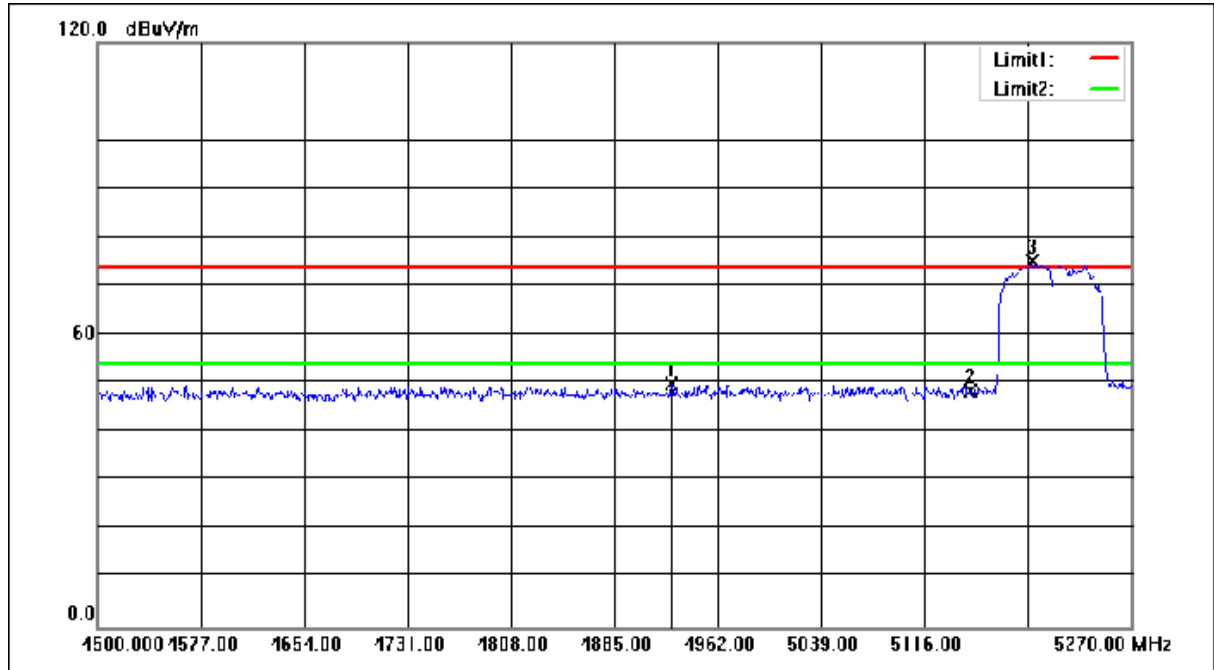


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.050	47.39	-7.85	39.54	54.00	-14.46	AVG
2	5150.000	49.49	-7.84	41.65	54.00	-12.35	AVG
3	5193.500	98.74	-7.75	90.99	54.00	36.99	AVG



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

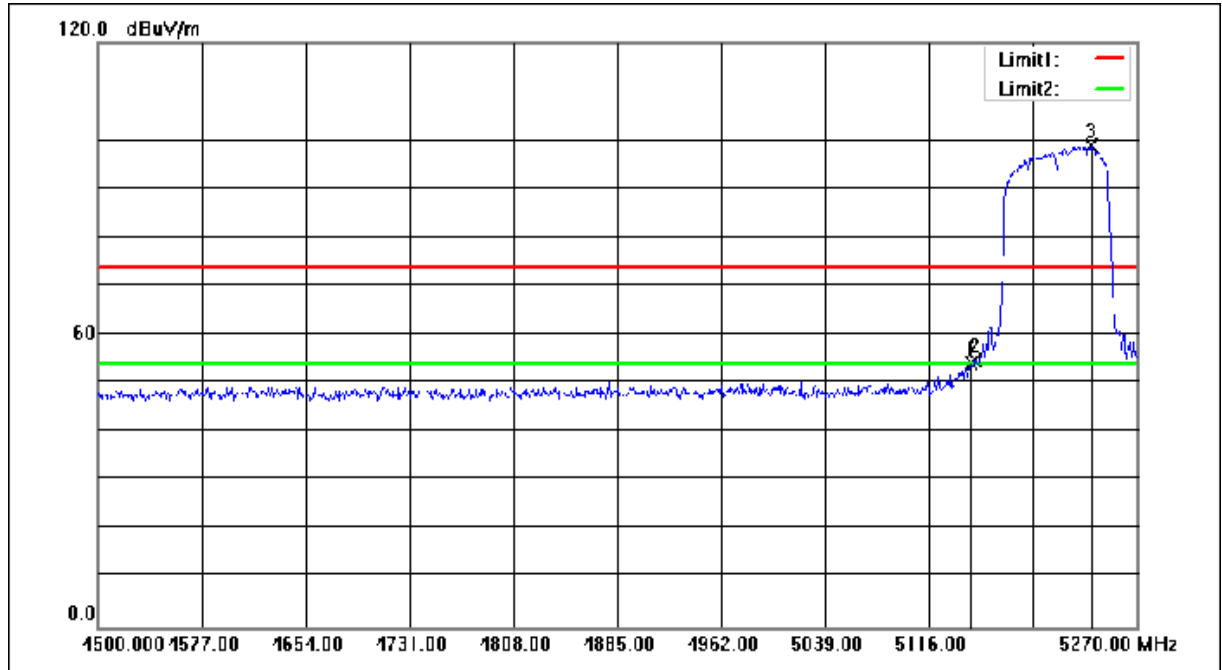


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4927.350	58.47	-8.43	50.04	74.00	-23.96	peak
2	5150.000	56.20	-7.84	48.36	74.00	-25.64	peak
3	5196.080	82.91	-7.74	75.17	74.00	1.17	peak



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



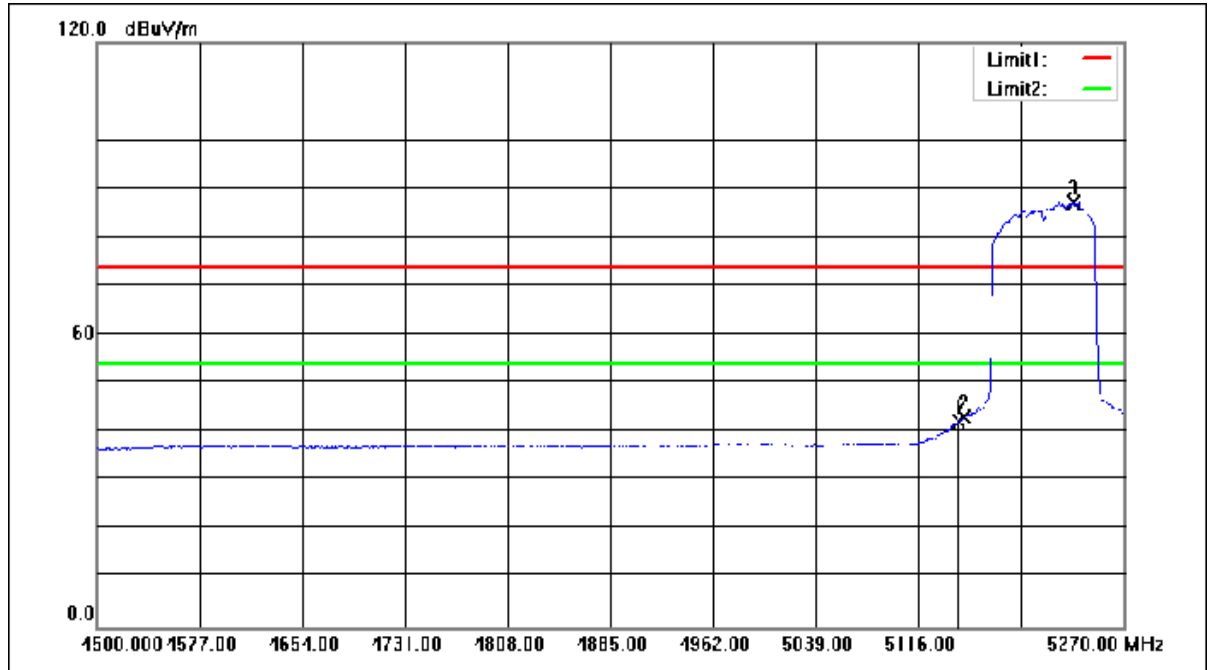
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5147.570	61.93	-7.85	54.08	74.00	-19.92	peak
2	5150.000	62.65	-7.84	54.81	74.00	-19.19	peak
3	5236.120	106.35	-7.59	98.76	74.00	24.76	peak



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

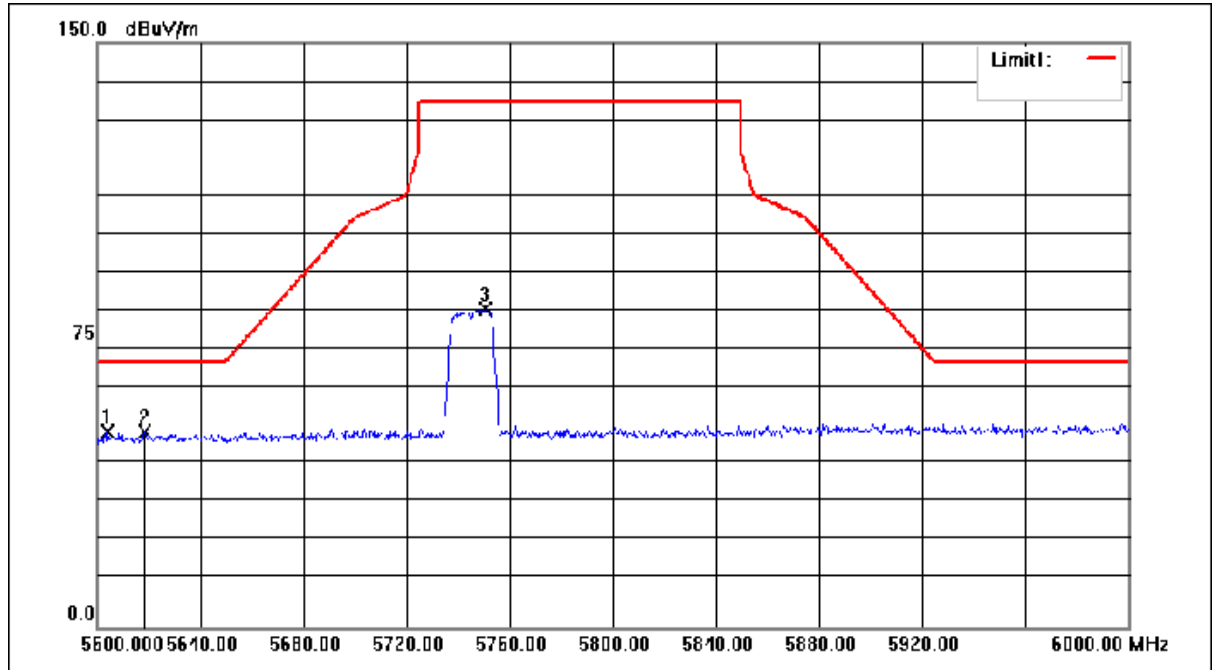


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.030	50.05	-7.85	42.20	54.00	-11.80	AVG
2	5150.000	50.78	-7.84	42.94	54.00	-11.06	AVG
3	5232.270	94.64	-7.61	87.03	54.00	33.03	AVG



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

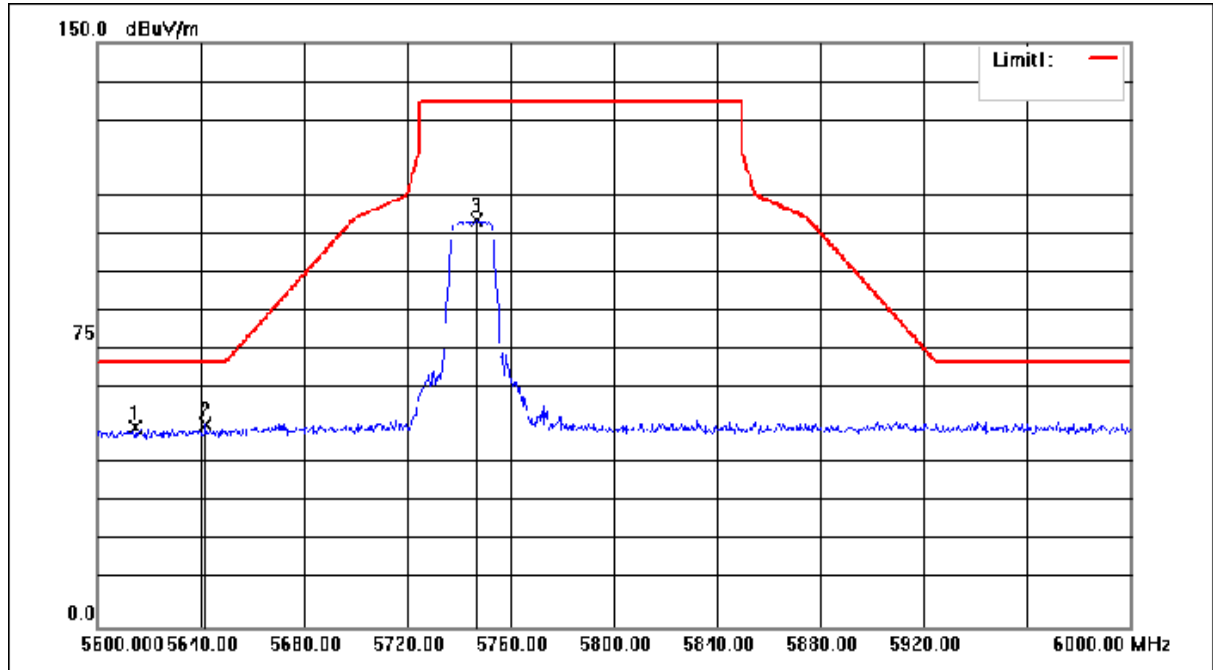


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5604.000	57.18	-6.96	50.22	68.20	-17.98	peak
2	5618.400	56.97	-6.92	50.05	68.20	-18.15	peak
3	5750.400	88.15	-6.58	81.57	135.00	-53.43	peak



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

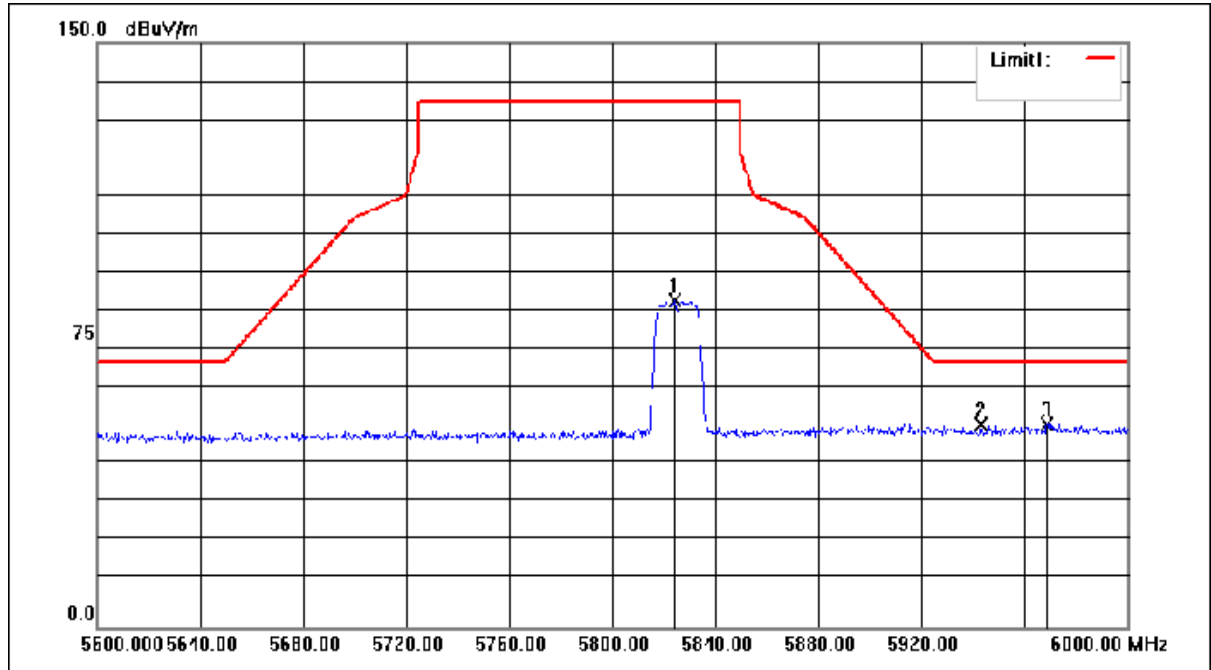


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5614.800	58.06	-6.93	51.13	68.20	-17.07	peak
2	5642.000	58.68	-6.87	51.81	68.20	-16.39	peak
3	5746.800	110.87	-6.60	104.27	135.00	-30.73	peak



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

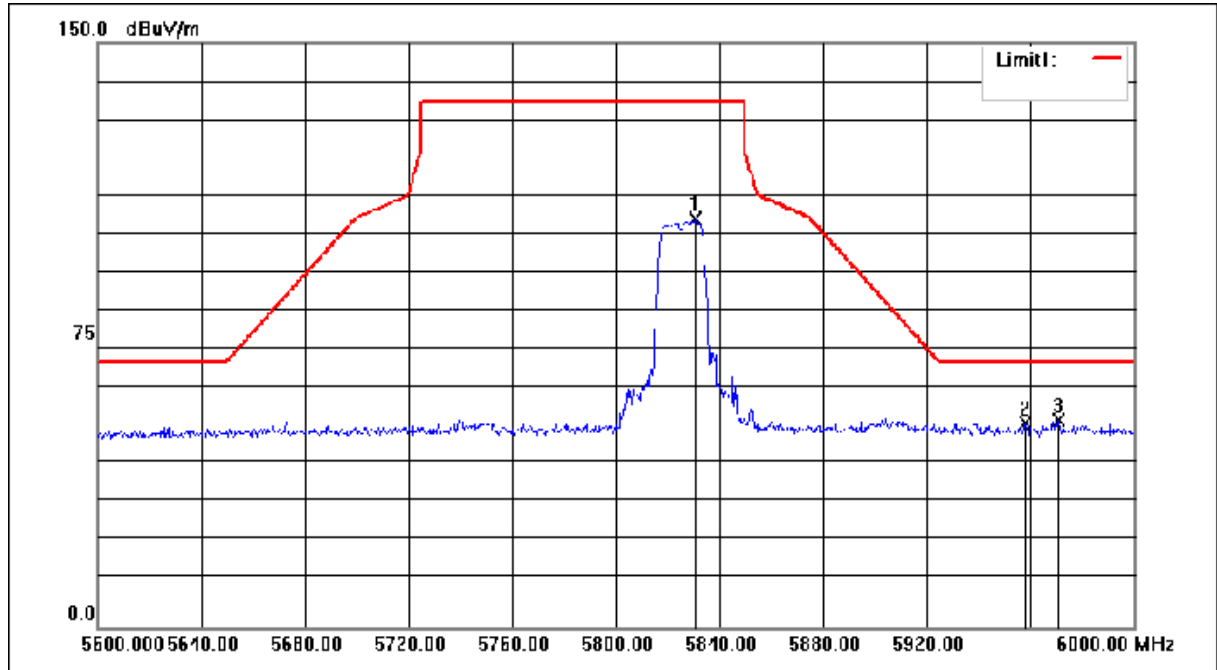


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5824.400	90.05	-6.33	83.72	135.00	-51.28	peak
2	5943.200	57.44	-5.67	51.77	68.20	-16.43	peak
3	5968.800	57.42	-5.53	51.89	68.20	-16.31	peak



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

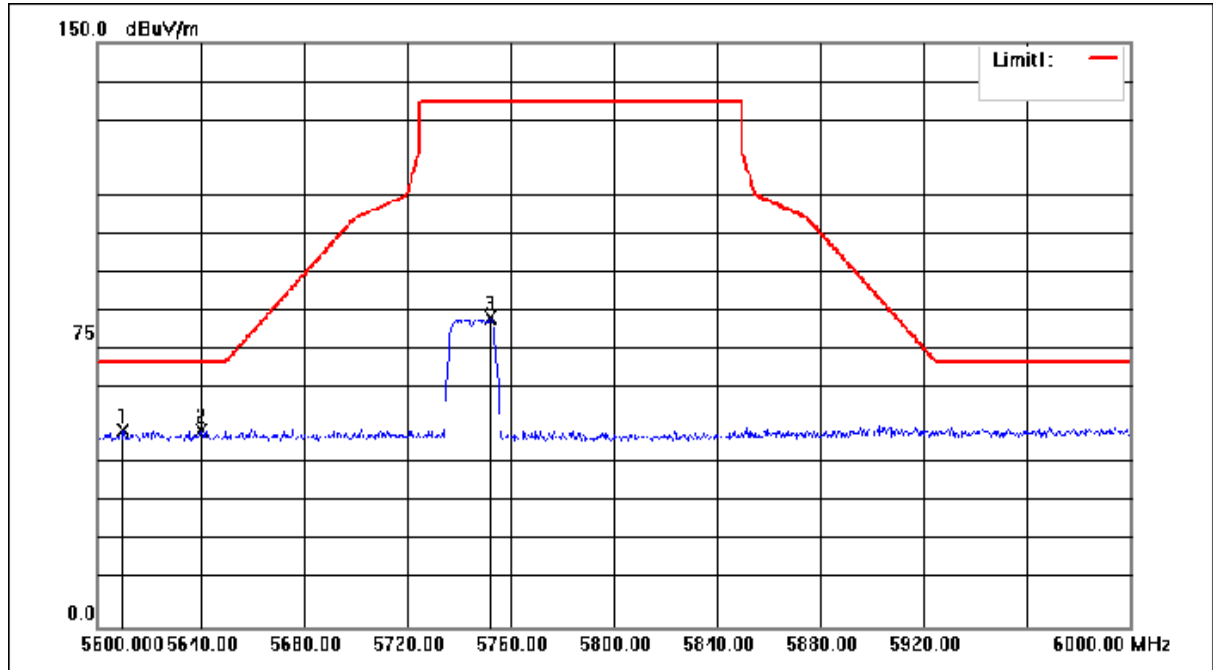


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5830.800	111.09	-6.29	104.80	135.00	-30.20	peak
2	5958.000	57.95	-5.59	52.36	68.20	-15.84	peak
3	5970.800	58.40	-5.52	52.88	68.20	-15.32	peak



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

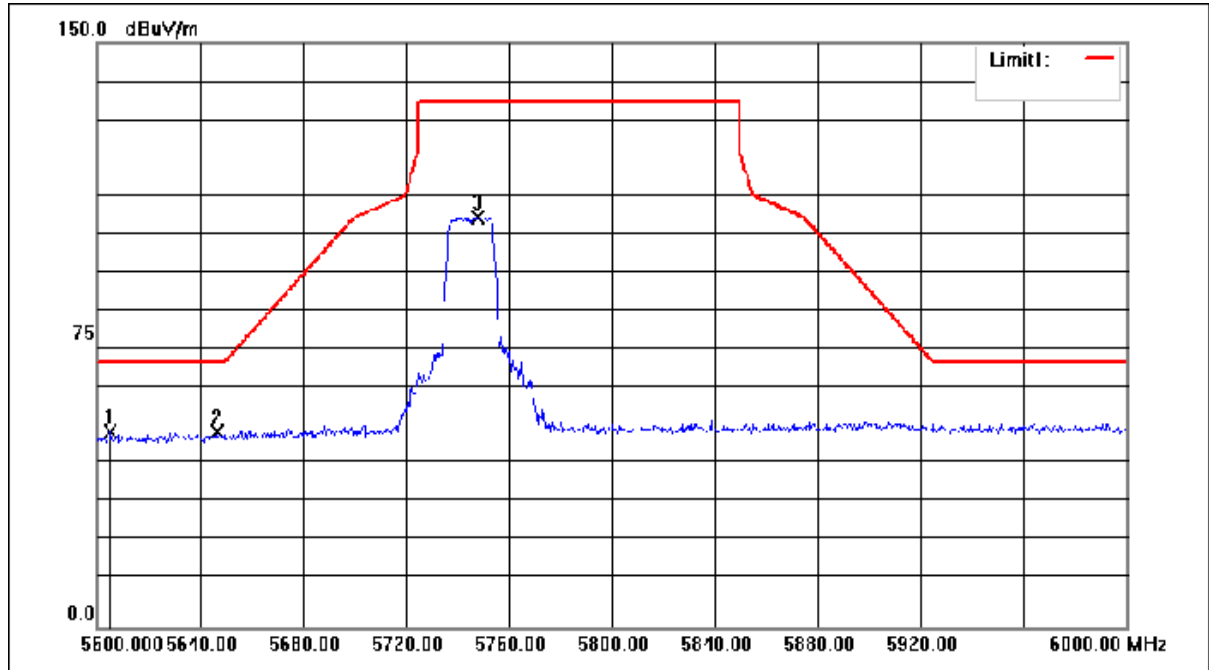


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5610.000	57.35	-6.94	50.41	68.20	-17.79	peak
2	5640.000	57.20	-6.87	50.33	68.20	-17.87	peak
3	5752.000	85.94	-6.58	79.36	135.00	-55.64	peak



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

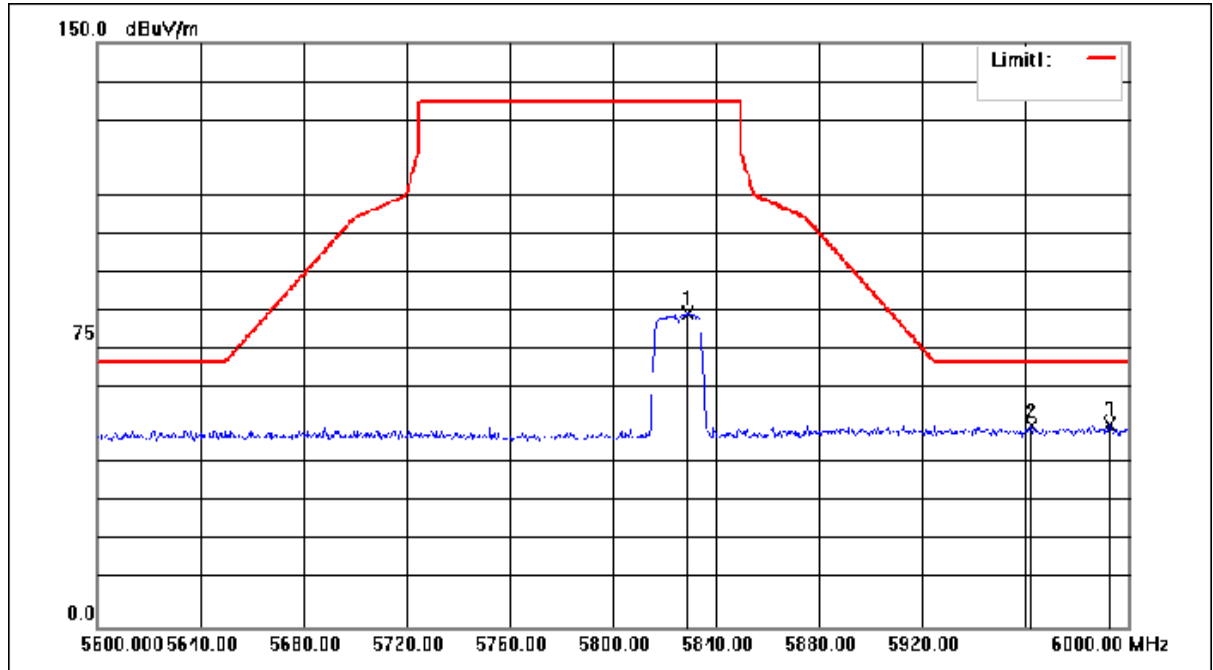


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5605.200	56.86	-6.95	49.91	68.20	-18.29	peak
2	5646.800	56.80	-6.85	49.95	68.20	-18.25	peak
3	5748.000	111.94	-6.59	105.35	135.00	-29.65	peak



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



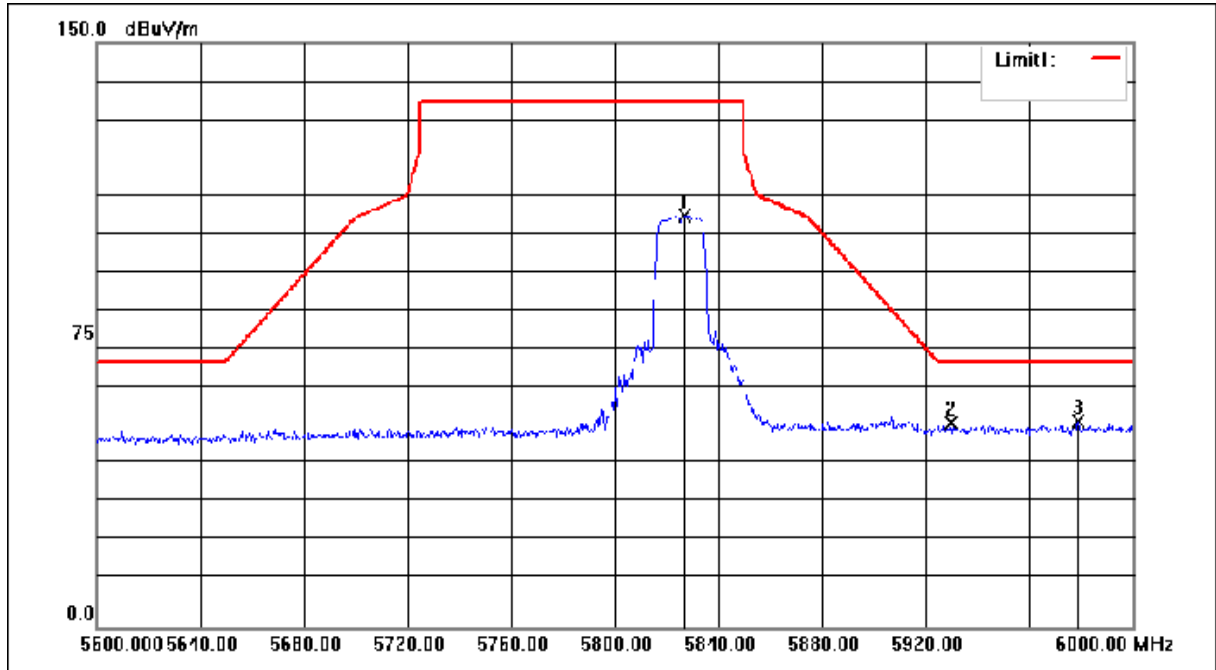
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5829.200	86.61	-6.30	80.31	135.00	-54.69	peak
2	5962.400	57.29	-5.57	51.72	68.20	-16.48	peak
3	5992.800	57.48	-5.40	52.08	68.20	-16.12	peak



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

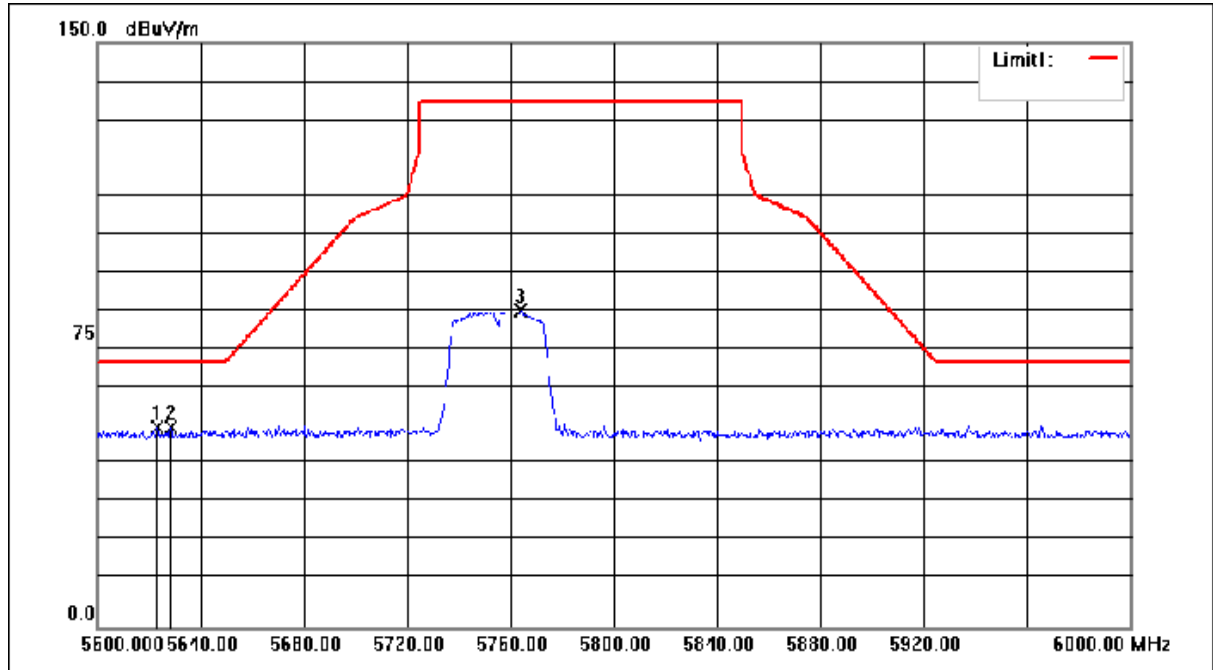


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.800	111.89	-6.31	105.58	135.00	-29.42	peak
2	5930.000	57.96	-5.74	52.22	68.20	-15.98	peak
3	5978.800	58.14	-5.48	52.66	68.20	-15.54	peak



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Mode:i; 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	5623.200	58.12	-6.92	51.20	68.20	-17.00	peak
2	5628.400	58.02	-6.90	51.12	68.20	-17.08	peak
3	5764.000	87.85	-6.55	81.30	135.00	-53.70	peak



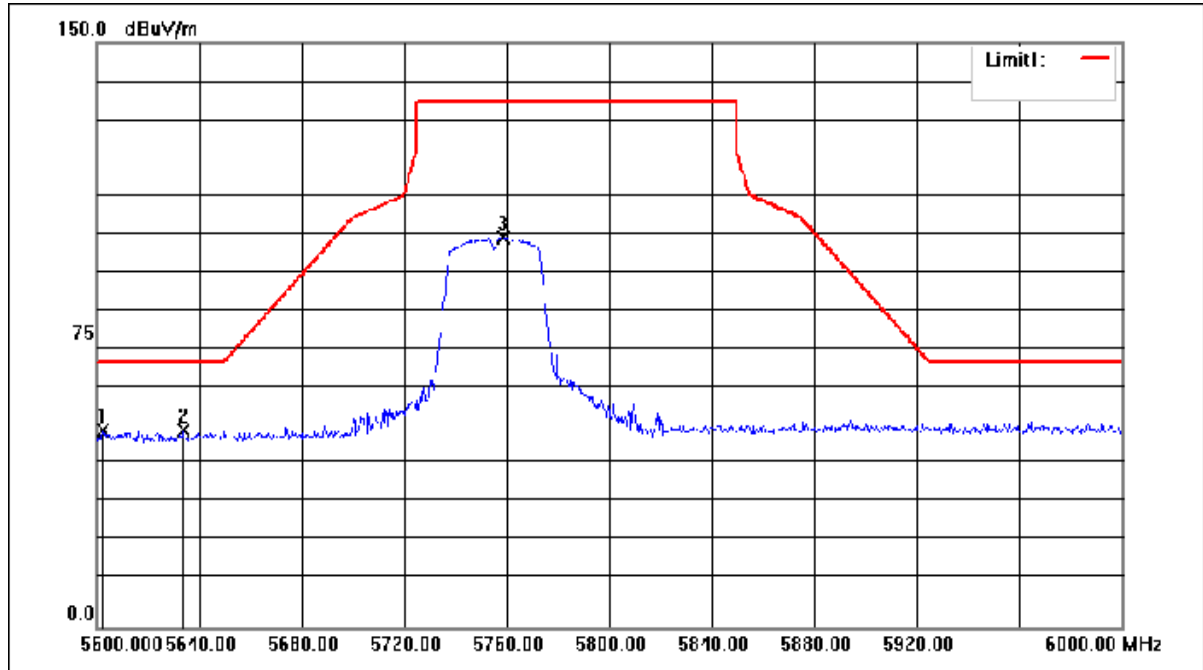
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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

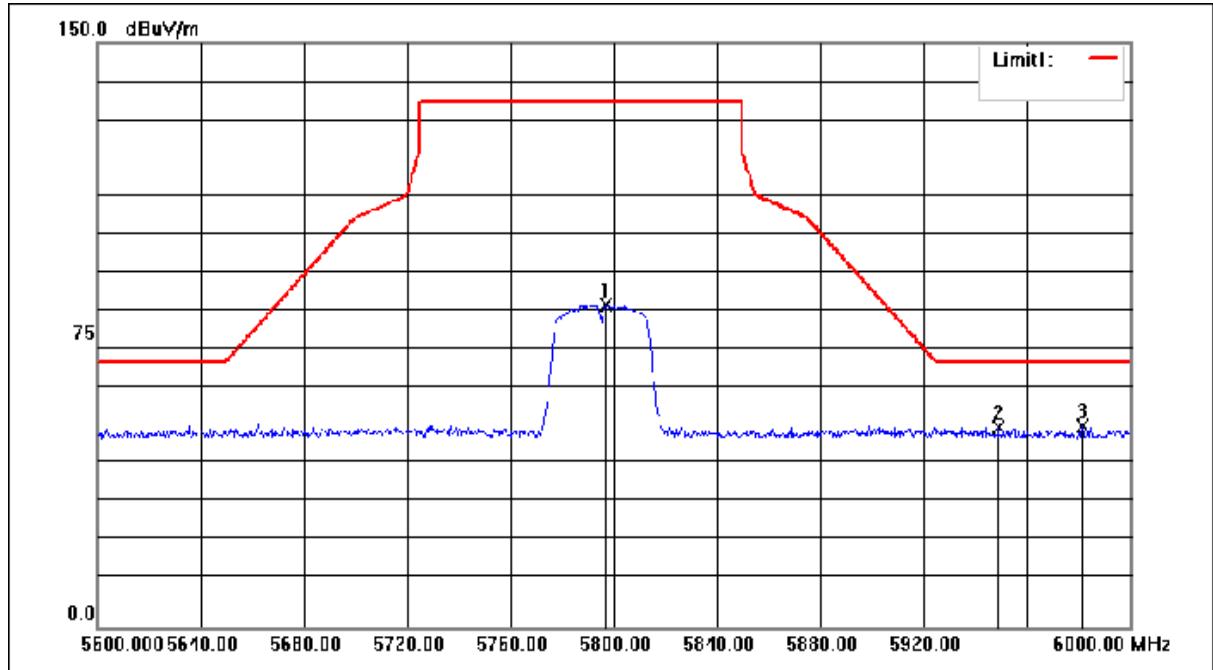


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5602.400	57.58	-6.97	50.61	68.20	-17.59	peak
2	5633.600	57.15	-6.88	50.27	68.20	-17.93	peak
3	5758.400	106.58	-6.56	100.02	135.00	-34.98	peak



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

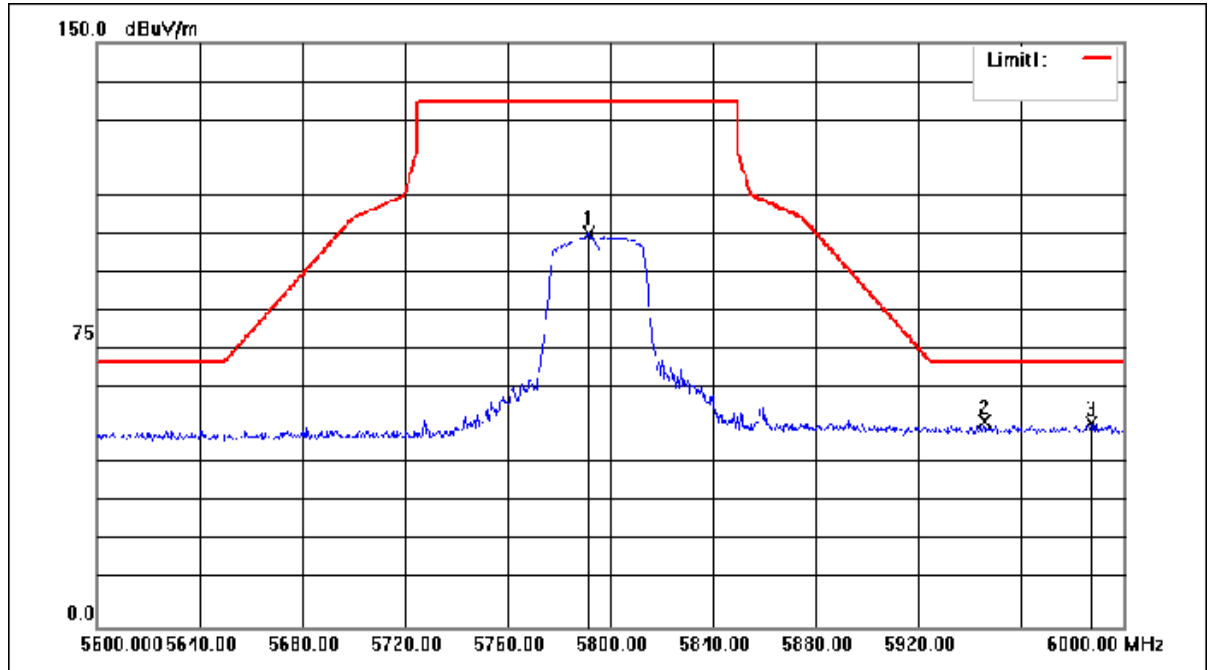


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5797.200	89.06	-6.46	82.60	135.00	-52.40	peak
2	5948.800	56.76	-5.65	51.11	68.20	-17.09	peak
3	5981.600	56.90	-5.47	51.43	68.20	-16.77	peak



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

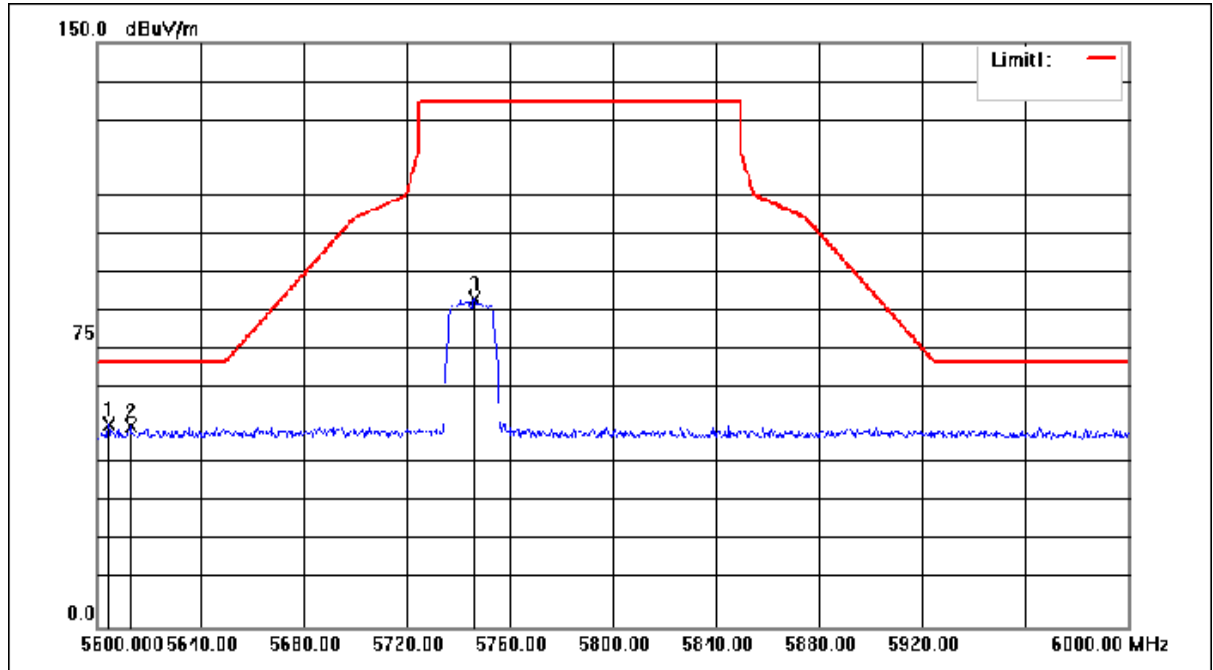


No.	Frequency (MHz)	Reading (dBUV)	Correction factor(dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	5791.600	107.43	-6.48	100.95	135.00	-34.05	peak
2	5946.000	58.26	-5.66	52.60	68.20	-15.60	peak
3	5987.600	57.68	-5.43	52.25	68.20	-15.95	peak



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

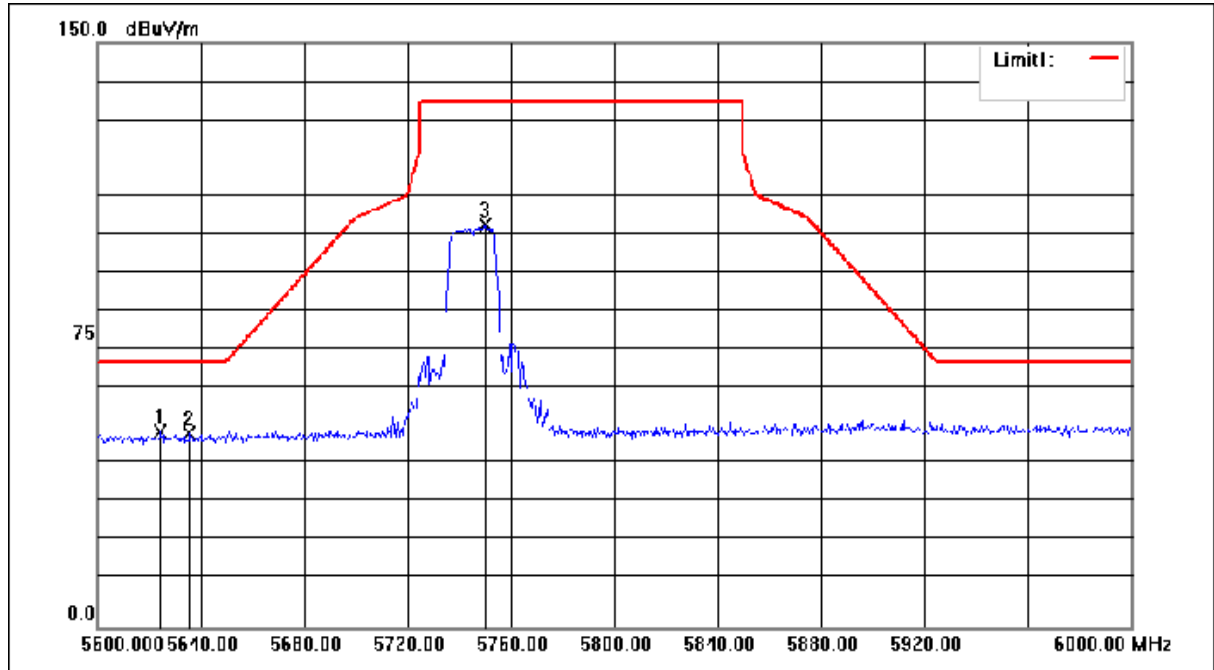


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5604.400	58.99	-6.96	52.03	68.20	-16.17	peak
2	5612.800	58.35	-6.94	51.41	68.20	-16.79	peak
3	5746.400	90.63	-6.60	84.03	135.00	-50.97	peak



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

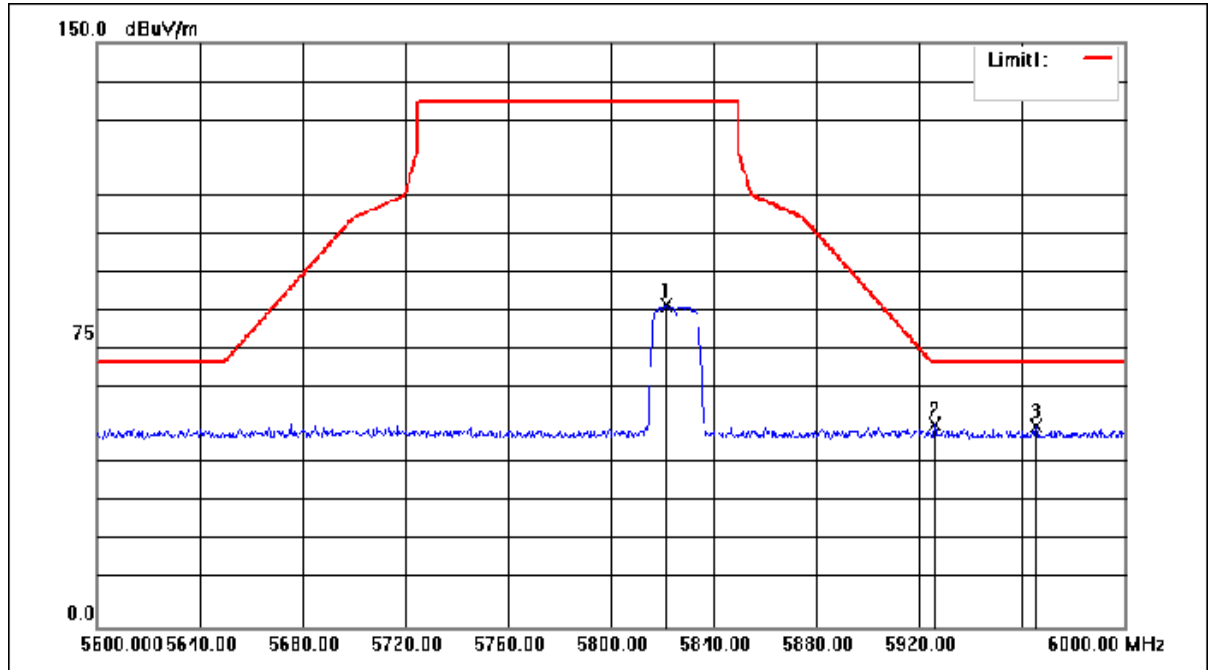


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5624.400	56.86	-6.90	49.96	68.20	-18.24	peak
2	5635.600	56.72	-6.88	49.84	68.20	-18.36	peak
3	5750.000	109.74	-6.59	103.15	135.00	-31.85	peak



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



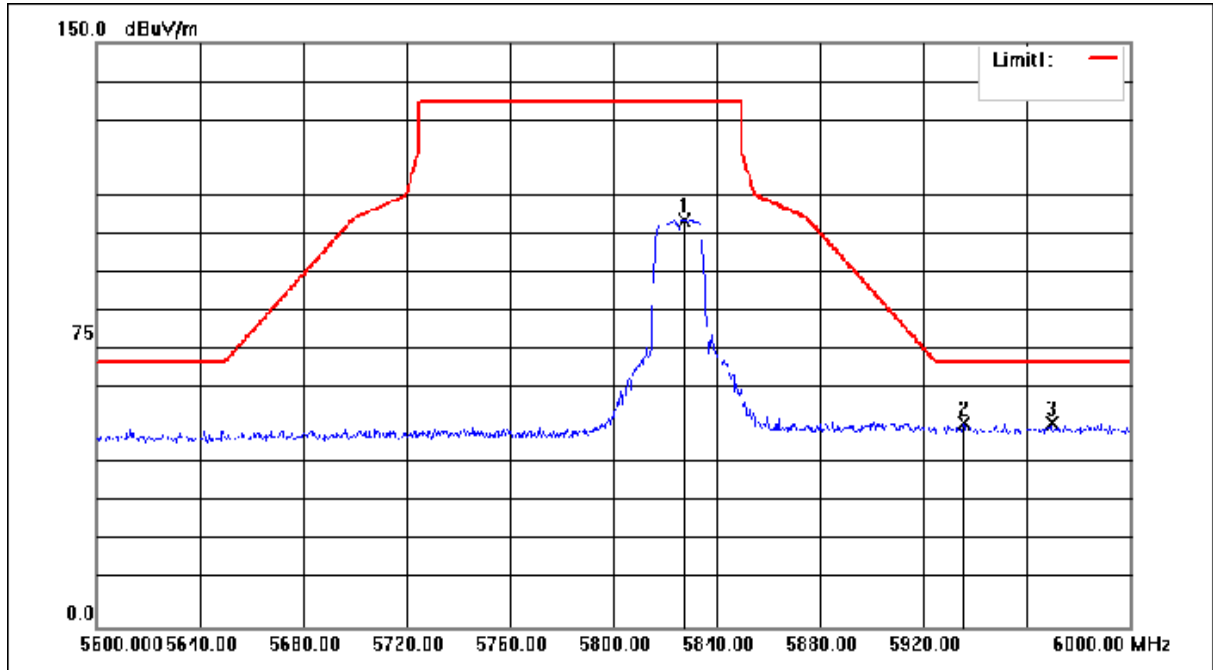
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5821.600	89.04	-6.34	82.70	135.00	-52.30	peak
2	5926.000	57.52	-5.76	51.76	68.20	-16.44	peak
3	5965.600	57.05	-5.55	51.50	68.20	-16.70	peak



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

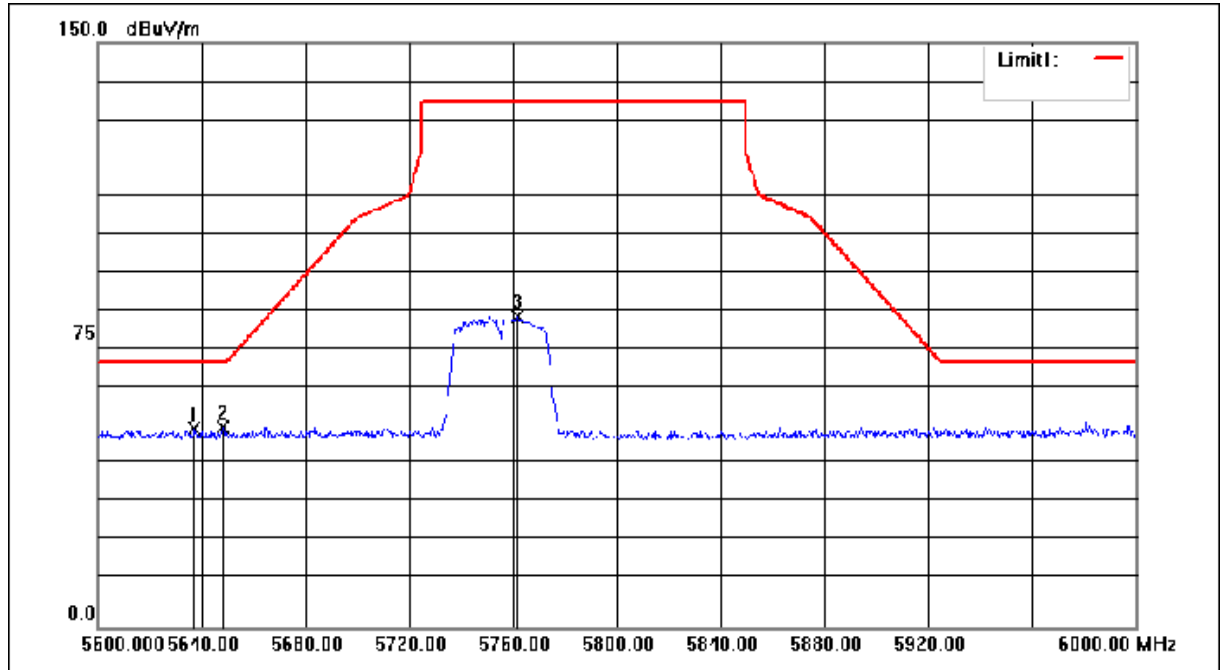


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5827.200	110.84	-6.31	104.53	135.00	-30.47	peak
2	5935.600	57.84	-5.71	52.13	68.20	-16.07	peak
3	5969.600	57.67	-5.52	52.15	68.20	-16.05	peak



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

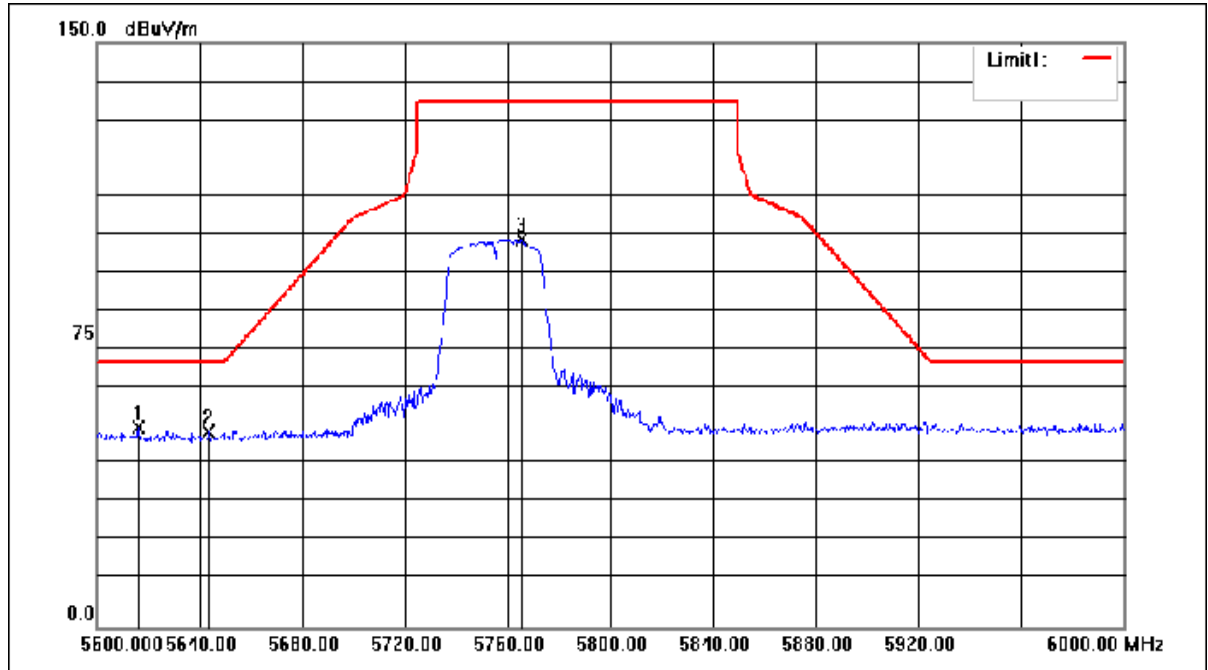


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5637.200	57.85	-6.87	50.98	68.20	-17.22	peak
2	5648.000	58.07	-6.85	51.22	68.20	-16.98	peak
3	5761.600	86.38	-6.56	79.82	135.00	-55.18	peak



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

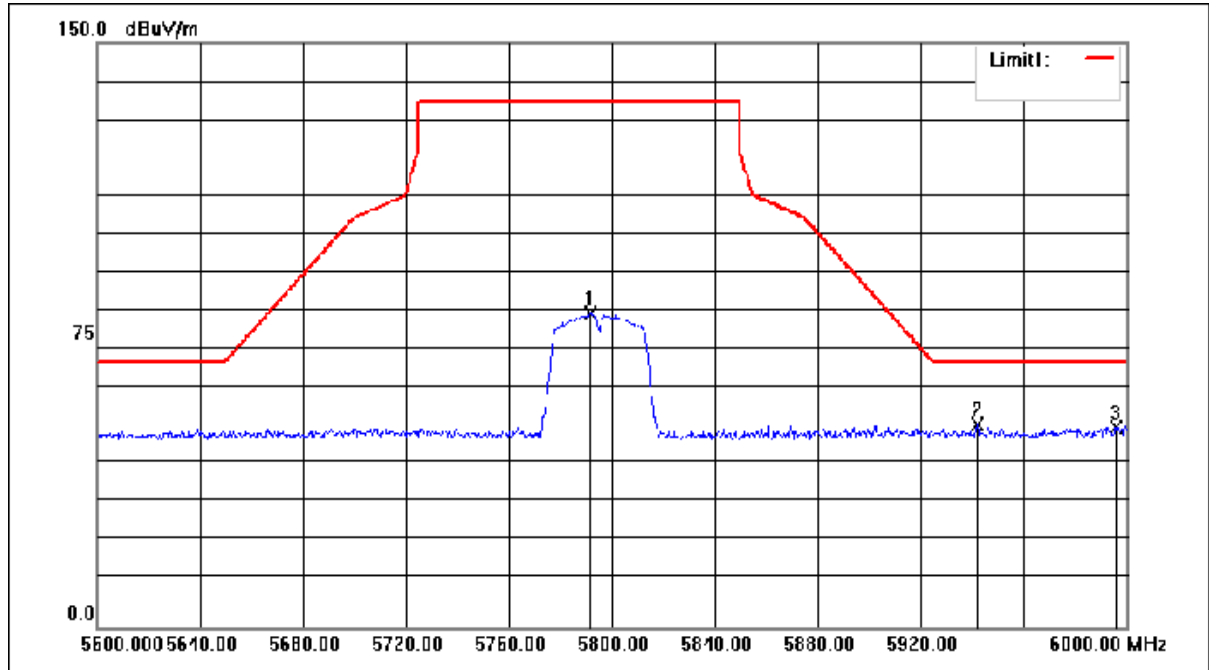


No.	Frequency (MHz)	Reading (dBUV)	Correction factor(dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	5616.000	58.03	-6.93	51.10	68.20	-17.10	peak
2	5643.600	56.88	-6.85	50.03	68.20	-18.17	peak
3	5765.600	106.06	-6.55	99.51	135.00	-35.49	peak



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

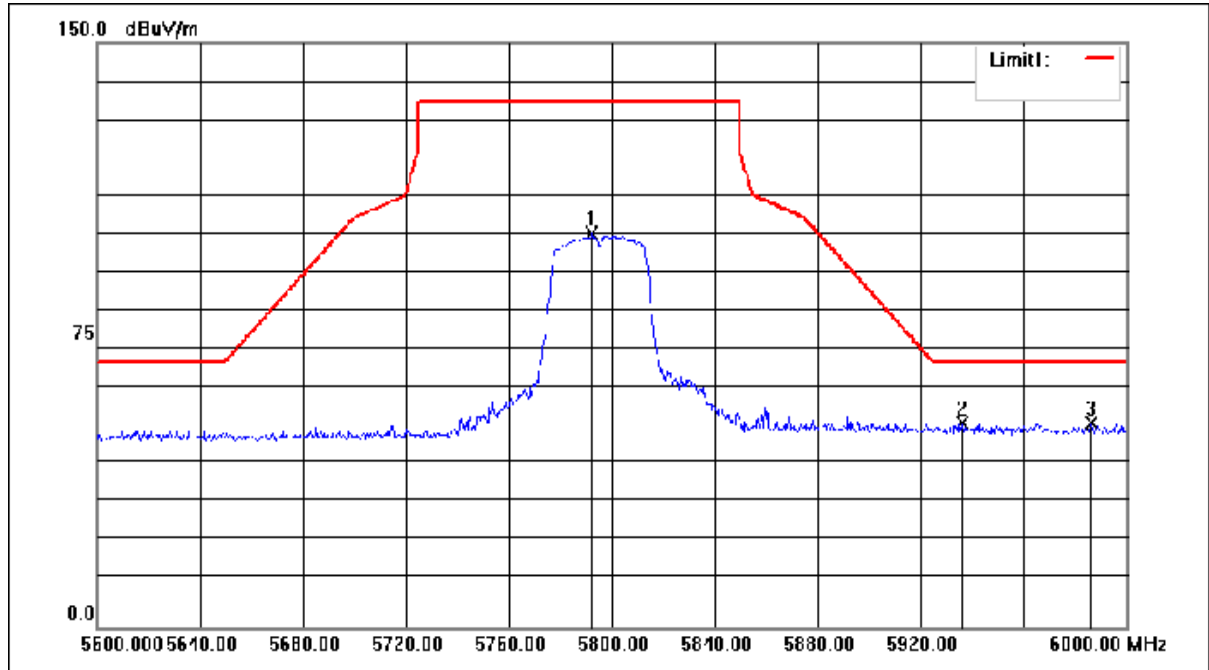


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5791.600	87.06	-6.48	80.58	135.00	-54.42	peak
2	5942.000	57.56	-5.68	51.88	68.20	-16.32	peak
3	5996.000	56.60	-5.38	51.22	68.20	-16.98	peak



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

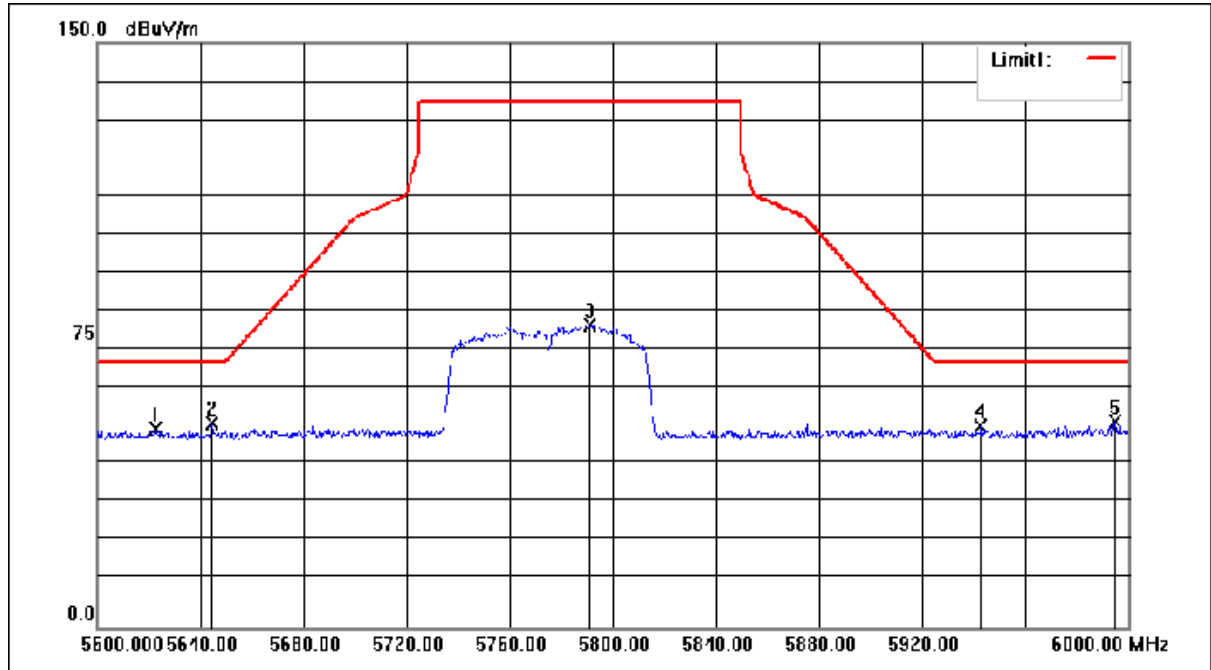


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5792.400	107.58	-6.48	101.10	135.00	-33.90	peak
2	5936.400	58.07	-5.71	52.36	68.20	-15.84	peak
3	5986.400	57.90	-5.43	52.47	68.20	-15.73	peak



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

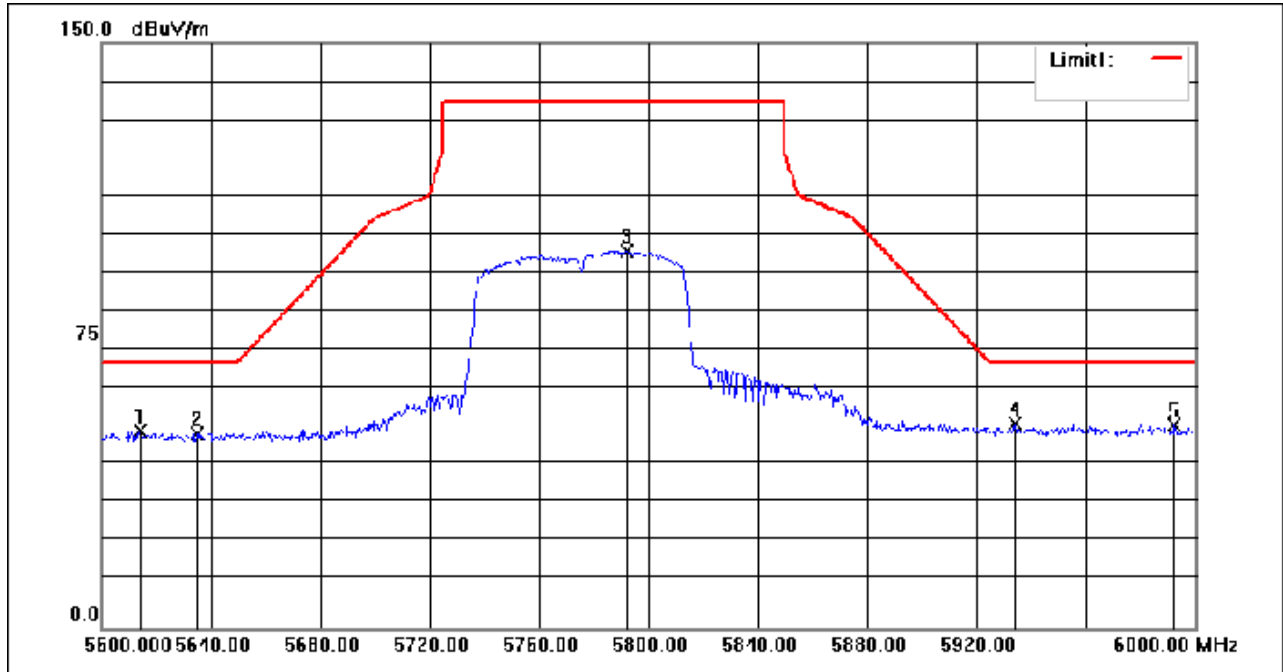


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5622.400	57.77	-6.92	50.85	68.20	-17.35	peak
2	5644.400	59.02	-6.85	52.17	68.20	-16.03	peak
3	5791.200	84.10	-6.48	77.62	135.00	-57.38	peak
4	5942.800	57.37	-5.67	51.70	68.20	-16.50	peak
5	5994.800	57.99	-5.39	52.60	68.20	-15.60	peak



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Mode:i; 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	5614.000	57.26	-6.94	50.32	68.20	-17.88	peak
2	5634.800	56.75	-6.88	49.87	68.20	-18.33	peak
3	5792.000	103.07	-6.48	96.59	135.00	-38.41	peak
4	5934.000	58.20	-5.73	52.47	68.20	-15.73	peak
5	5992.400	57.32	-5.41	51.91	68.20	-16.29	peak



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## 7.9 Frequency Stability

Test Requirement	47 CFR Part 15, Subpart E 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.



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### 7.9.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case: b:Module MT7668 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.

c:Module MT7668 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.

h:Module RTL8812CU 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.

i:Module RTL8812CU 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.

The worst case for final test:

b:Module MT7668 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.

c:Module MT7668 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.

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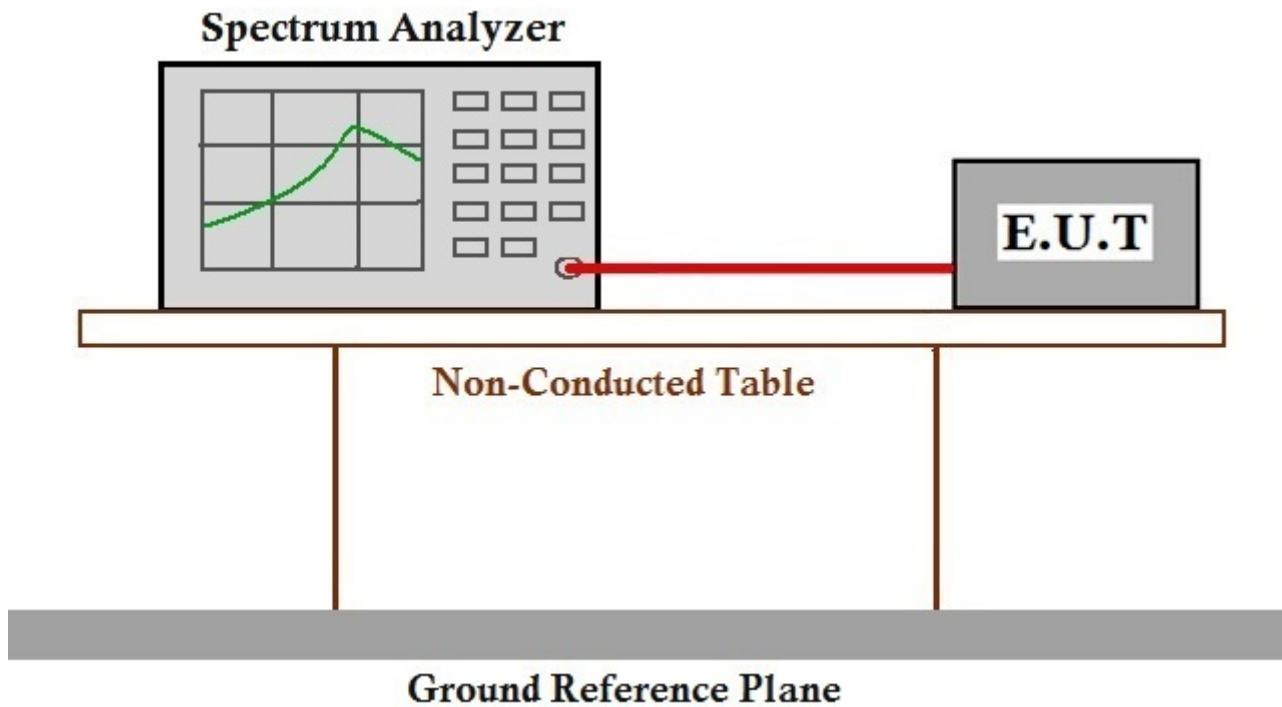
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802.11ac(VHT80). Only the data of worst case is recorded in the report.

h:Module RTL8812CU 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.

i:Module RTL8812CU 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.

7.9.2 Test Setup Diagram



7.9.3 Measurement Procedure and Data

The detailed test data see: Appendix B for-KSCR220100002802AT-FCC-5G-MT7668  
Appendix B for-KSCR220100002802AT-FCC-5G-RTL8812cu



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**7.10 99% Bandwidth**

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

**7.10.1 E.U.T. Operation**

Operating Environment:

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

Pretest these modes to find the worst case: b:Module MT7668 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.

c:Module MT7668 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.

h:Module RTL8812CU 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.

i:Module RTL8812CU 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.

The worst case for final test:

b:Module MT7668 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.

c:Module MT7668 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

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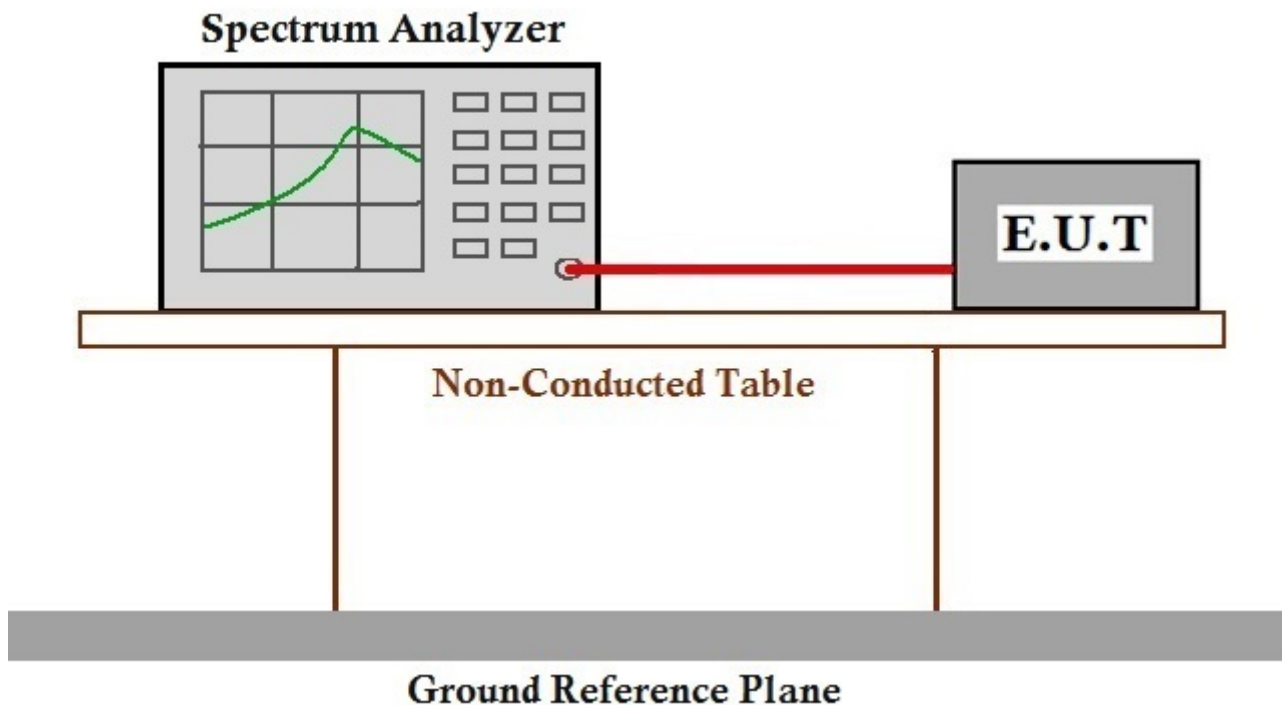
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worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded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

h:Module RTL8812CU 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.

i:Module RTL8812CU 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.

7.10.2 Test Setup Diagram



7.10.3 Measurement Procedure and Data

The detailed test data see: Appendix B for-KSCR220100002802AT-FCC-5G-MT7668  
Appendix B for-KSCR220100002802AT-FCC-5G-RTL8812cu



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## 8 Test Setup Photographs

Refer to the < Test Setup photos >.

## 9 EUT Constructional Details

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

- End of the Report -

