

TEST REPORT

Application No.: SHCR2112000925AT
FCC ID: UCZ-B862AJ-Z
IC: 8575A-B862AJZ
Applicant: Lorex Technology Inc.
Address of Applicant: 250 Royal crest Court Markham, L3R 3S1 Ontario, Canada.
Manufacturer: Lorex Technology Inc.
Address of Manufacturer: 250 Royal crest Court Markham, L3R 3S1 Ontario, Canada.
Equipment Under Test (EUT):
EUT Name: 4K Video Doorbell
Model No.: B862AJ-Z
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: 2021-12-06
Date of Test: 2021-12-06 to 2021-12-23
Date of Issue: 2021-12-24

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Parlam Zhan


Parlam Zhan
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2021-12-24	/

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



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Testing Center EMC Laboratory

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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 8.11	ANSI C63.10 (2013) Section 6.8& RSS-Gen Section 6.11	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 3.7V by rechargeable lithium battery charged by 16-24 VAC or DC 5V 2A by USB port
Battery Model: 1S1P 652023P
Rated Voltage: 3.7V
Capacity: 0.2Ah
Energy: 0.74Wh
Charging Voltage: 4.2V
Test voltage: AC 120V/60Hz
Serial Number: ND012103120937
Firmware Version: V1.0

For FCC				
	Band	Mode	Frequency Range(MHz)	Number of channels
Operation Frequency:	UNII Band I	802.11a/n(HT20)/ac(VHT20)	5180-5240	4
		802.11n(HT40)/ac(VHT40)	5190-5230	2
		802.11ac(VHT80)	5210	1
	UNII Band II-A	802.11a/n(HT20)/ac(VHT20)	5260-5320	4
		802.11n(HT40)/ac(VHT40)	5270-5310	2
		802.11ac(VHT80)	5290	1
	UNII Band II-C	802.11a/n(HT20)/ac(VHT20)	5500-5700	11
		802.11n(HT40)/ac(VHT40)	5510-5670	5
		802.11ac(VHT80)	5530~5610	2
	UNII Band III	802.11a/n(HT20)/ac(VHT20)	5745-5825	5
		802.11n(HT40)/ac(VHT40)	5755-5795	2
		802.11ac(VHT80)	5775	1
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
Channel Spacing:	802.11a/n(HT20)/ac(VHT20): 20MHz 802.11n(HT40)/ac(VHT40): 40MHz 802.11ac(VHT80): 80MHz			
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-15 802.11ac: MCS0-9			
Antenna Gain:	Antenna 1:2.99dBi; (Provided by manufacturer) Antenna 2:2.83dBi; (Provided by manufacturer) Directional Gain:5.92dBi			
Antenna Type:	Antenna 1: FPC Antenna Antenna 2: FPC Antenna			



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For IC				
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band II-A	802.11a/n(HT20)/ac(VHT20)	5260-5320	4
		802.11n(HT40)/ac(VHT40)	5270-5310	2
		802.11ac(VHT80)	5290	1
	UNII Band II-C	802.11a/n(HT20)/ac(VHT20)	5500-5700	8
		802.11n(HT40)/ac(VHT40)	5510-5670	3
		802.11ac(VHT80)	5530~5610	1
	UNII Band III	802.11a/n(HT20)/ac(VHT20)	5745-5825	5
		802.11n(HT40)/ac(VHT40)	5755-5795	2
802.11ac(VHT80)		5775	1	
Note: 5600MHz to 5650MHz band can not be operated in Canada				
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
Channel Spacing:	802.11a/n(HT20)/ac(VHT20): 20MHz 802.11n(HT40)/ac(VHT40): 40MHz 802.11ac(VHT80): 80MHz			
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-15 802.11ac: MCS0-9			
Antenna Gain:	Antenna 1:2.99dBi; (Provided by manufacturer) Antenna 2:2.83dBi; (Provided by manufacturer) Directional Gain:5.92dBi			
Antenna Type:	Antenna 1: FPC Antenna Antenna 2: FPC Antenna			



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4.2 Power level setting using in test:

Channel	802.11a		802.11n(HT20)		802.11ac(VHT20)	
	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
36	default	default	12	12	14	14
40	default	default	14	14	14	14
48	default	default	14	14	14	14
52	default	default	14	14	14	14
60	default	default	14	14	14	14
64	default	default	14	14	14	14
100	default	default	14	14	14	14
116	default	default	14	14	14	14
140	default	default	14	14	14	14
144	default	default	14	14	14	14
149	default	default	14	14	14	14
157	default	default	14	14	14	14
165	default	default	14	14	14	14
Channel	802.11n(HT40)		802.11ac(VHT40)			
	Ant 1	Ant 2	Ant 1	Ant 2		
38	14	14	12	12		
46	14	14	15	15		
54	14	14	14	14		
62	14	14	16	16		
102	14	14	13	13		
110	14	14	14	14		
134	14	14	14	14		
142	14	14	14	14		
151	14	14	14	14		
159	14	14	14	14		
Channel	802.11ac(VHT80)					
	Ant 1	Ant 2				
42	10	10				
58	11	11				
106	10	10				
122	10	10				
138	11	11				
155	11	11				

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
NoteBook	Lenovo	E40	N/A

4.4 Measurement Uncertainty

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

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



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4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

Tel: +86 512 5735 5888

Fax: +86 512 5737 0818

No tests were sub-contracted.

4.6 Test Facility

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

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

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

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

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

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

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

Designation Number: CN1172.

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

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

Company Number: 2324E

- **VCCI (Member No.: 1938)**

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

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals (150kHz-30MHz)						
1	EMI Test Receive	R&S	ESCI	100781	02/01/2021	01/31/2022
2	LISN	R&S	ENV216	101604	10/12/2021	10/11/2022
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/12/2021	10/11/2022
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
5	CE test Cable	Thermax	/	14	10/16/2021	10/15/2022
6	Test Software	Farad	EZ-EMC	CCS-03A1	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022
3	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2021	01/31/2022
4	Signal Generator	Agilent	N5182A	MY50142015	08/27/2021	08/26/2022
5	Radio Communication Test Station	Anritsu	MT8000A	6262012849	N/A	N/A
6	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	N/A	N/A
7	Universal Radio Communication Tester	R&S	CMW500	159275	10/12/2021	10/11/2022
8	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022
9	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022
10	Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
11	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
13	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
14	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
15	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
16	Conducted test cable	/	RF01-RF04	/	04/15/2021	04/14/2022
17	Software	BST	TST-PASS	N/A	N/A	N/A
18	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022
19	Thermometer	Anymetre	TH603	CCS007	10/14/2021	10/13/2022
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/22/2021	02/21/2022
9	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
10	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/18/2021	10/17/2022
11	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
12	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
13	Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
14	Filter (5690 MHz~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
15	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R



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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-v 3A1	N/A	N/A	N/A



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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

EUT Antenna:

The antenna 1 is FPC antenna, antenna 2 is PIFA antenna and no consideration of replacement.. The best case gain of the antenna 1 is 2.99dBi, antenna 2 is 2.83dBi

Antenna location: Refer to Appendix (Internal Photos).



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

WIFI chip (BCM43752) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(6)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(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:TX mode (Band 1)_Powered by AC 24V and 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:TX mode (Band 2A)_Powered by AC 24V and 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.

d:TX mode (Band 2C)_Powered by AC 24V and 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.

e:TX mode (Band 3)_Powered by AC 24V and 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.

g:TX mode (Band 1)_Powered by DC 5V via USB and 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:TX mode (Band 2A)_Powered by DC 5V via USB and 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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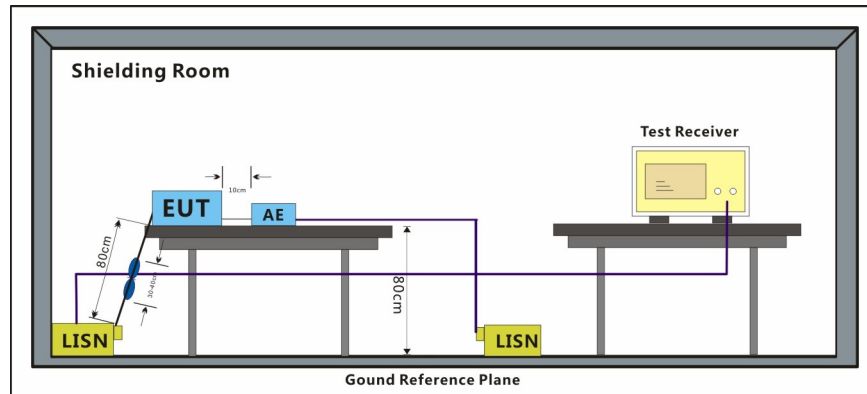
i:TX mode (Band 2C)_Powered by DC 5V via USB and keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); 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.

j:TX mode (Band 3)_ Powered by DC 5V via USB and 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:TX mode (Band 2A)_Powered by AC 24V and keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



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7.1.3 Measurement Procedure and Data

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

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



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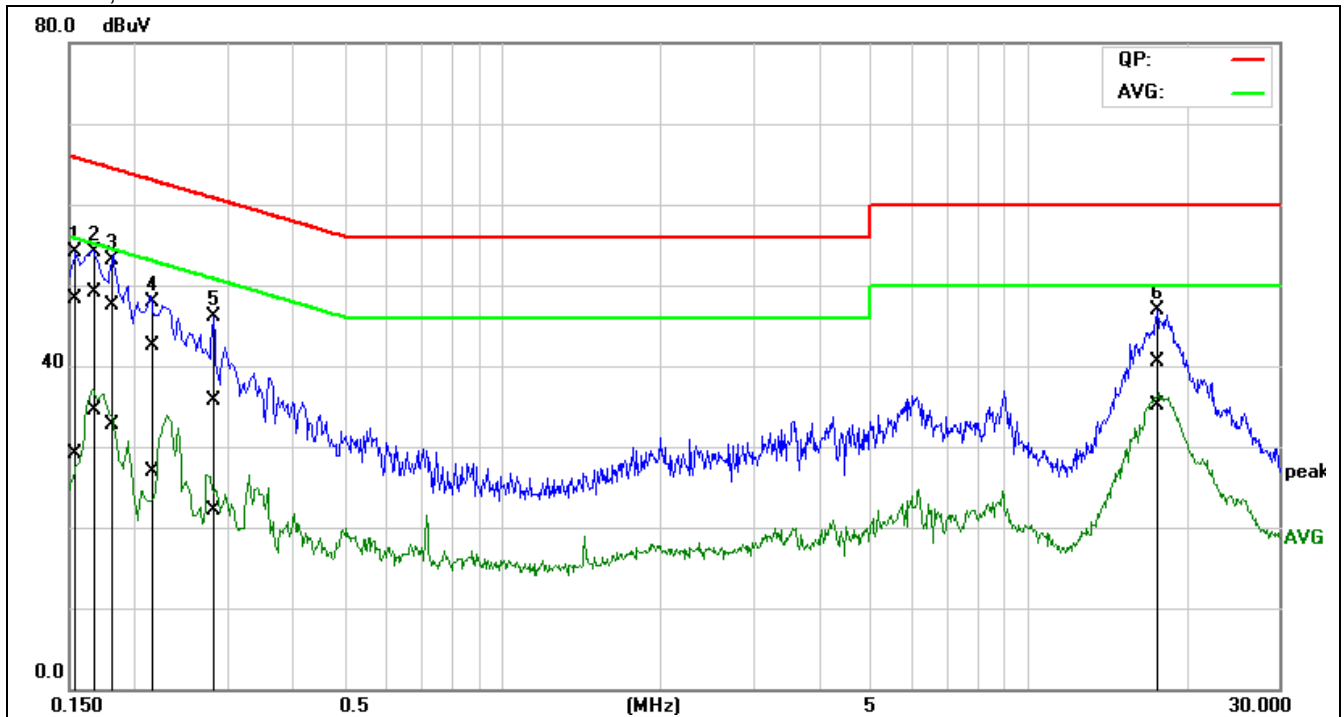
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Mode:c; Line:Live Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1556	28.85	9.57	19.46	48.31	29.03	65.69	55.70	-17.38	-26.67	Pass
2	0.1681	29.64	15.07	19.46	49.10	34.53	65.05	55.05	-15.95	-20.52	Pass
3	0.1783	28.12	13.26	19.46	47.58	32.72	64.56	54.56	-16.98	-21.84	Pass
4	0.2163	23.14	7.40	19.46	42.60	26.86	62.96	52.96	-20.36	-26.10	Pass
5	0.2818	16.27	2.65	19.47	35.74	22.12	60.76	50.76	-25.02	-28.64	Pass
6*	17.6200	20.37	14.94	20.19	40.56	35.13	60.00	50.00	-19.44	-14.87	Pass



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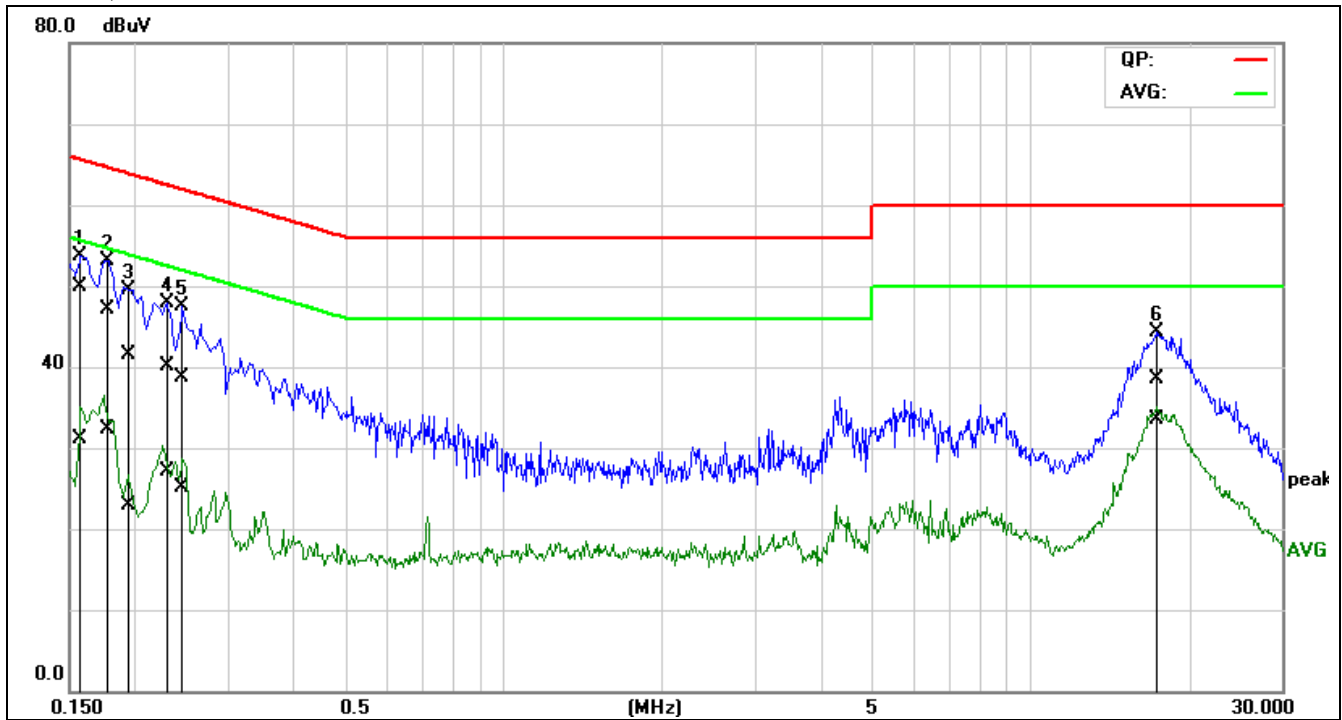
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Mode:c; Line:Neutral Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1572	30.52	11.60	19.42	49.94	31.02	65.61	55.61	-15.67	-24.59	Pass
2	0.1750	27.64	12.91	19.43	47.07	32.34	64.71	54.72	-17.64	-22.38	Pass
3	0.1965	21.98	3.52	19.43	41.41	22.95	63.75	53.76	-22.34	-30.81	Pass
4	0.2314	20.75	7.60	19.44	40.19	27.04	62.40	52.40	-22.21	-25.36	Pass
5	0.2455	19.29	5.73	19.44	38.73	25.17	61.90	51.91	-23.17	-26.74	Pass
6	17.3498	18.33	13.37	20.18	38.51	33.55	60.00	50.00	-21.49	-16.45	Pass



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7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.2.1 E.U.T. Operation

Operating Environment:

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

Test mode b:TX mode (Band 1)_Powered by AC 24V and 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:TX mode (Band 2A)_Powered by AC 24V and 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.

d:TX mode (Band 2C)_Powered by AC 24V and 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.

e:TX mode (Band 3)_Powered by AC 24V and 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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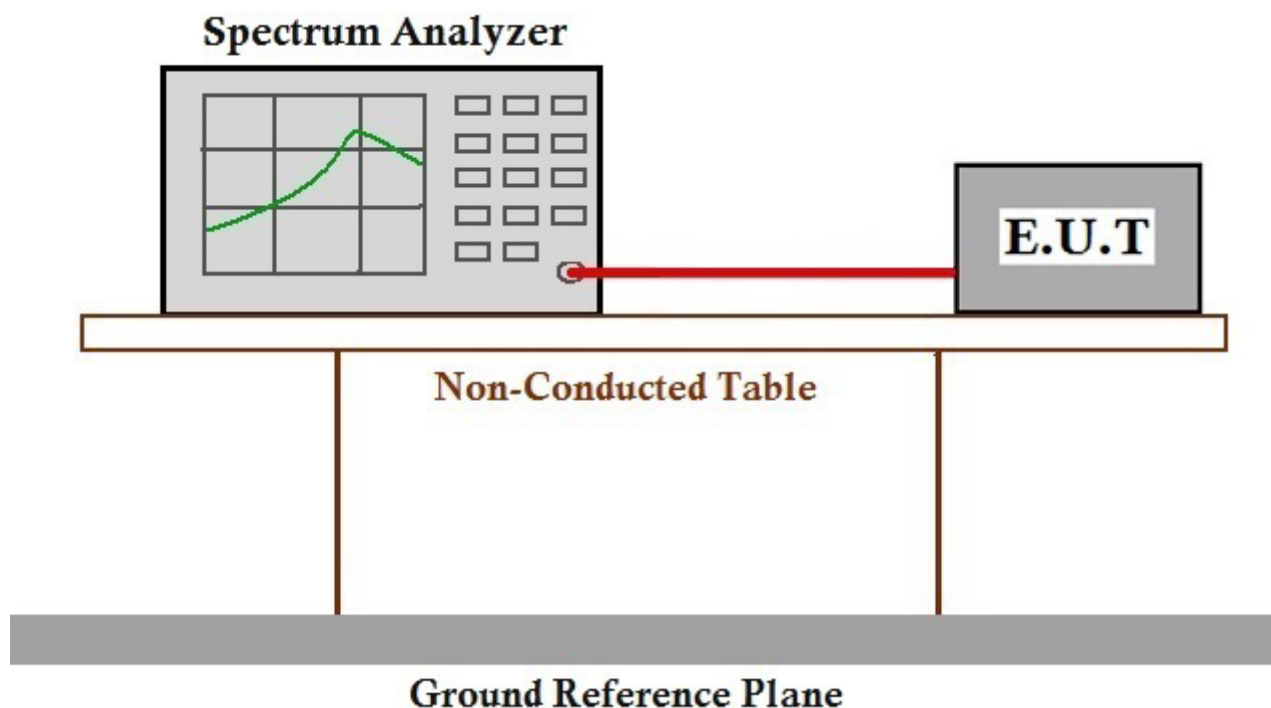
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7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211200092502

7.3 99% Bandwidth

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

7.3.1 E.U.T. Operation

Operating Environment:

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

Test mode b:TX mode (Band 1)_Powered by AC 24V and 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:TX mode (Band 2A)_Powered by AC 24V and 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.

d:TX mode (Band 2C)_Powered by AC 24V and 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.

e:TX mode (Band 3)_Powered by AC 24V and 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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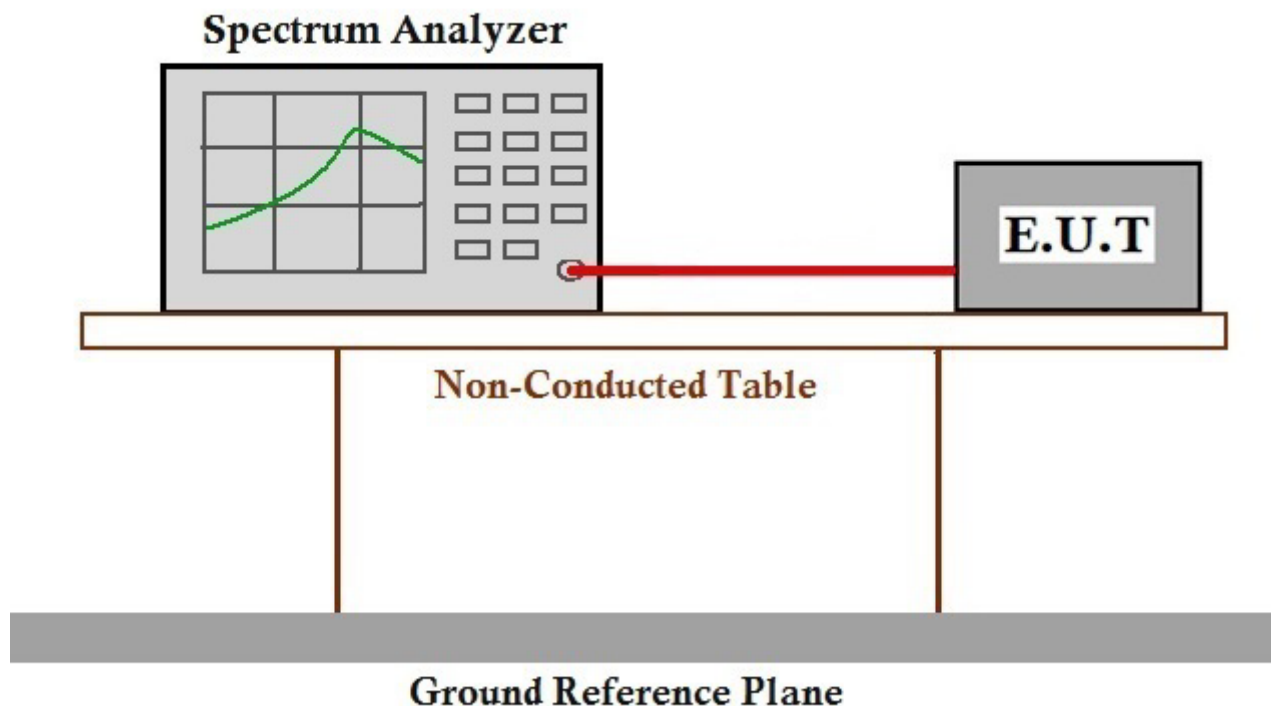
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7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211200092502

7.4 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

Operating Environment:

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

Test mode b:TX mode (Band 1)_Powered by AC 24V and 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:TX mode (Band 2A)_Powered by AC 24V and 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.

d:TX mode (Band 2C)_Powered by AC 24V and 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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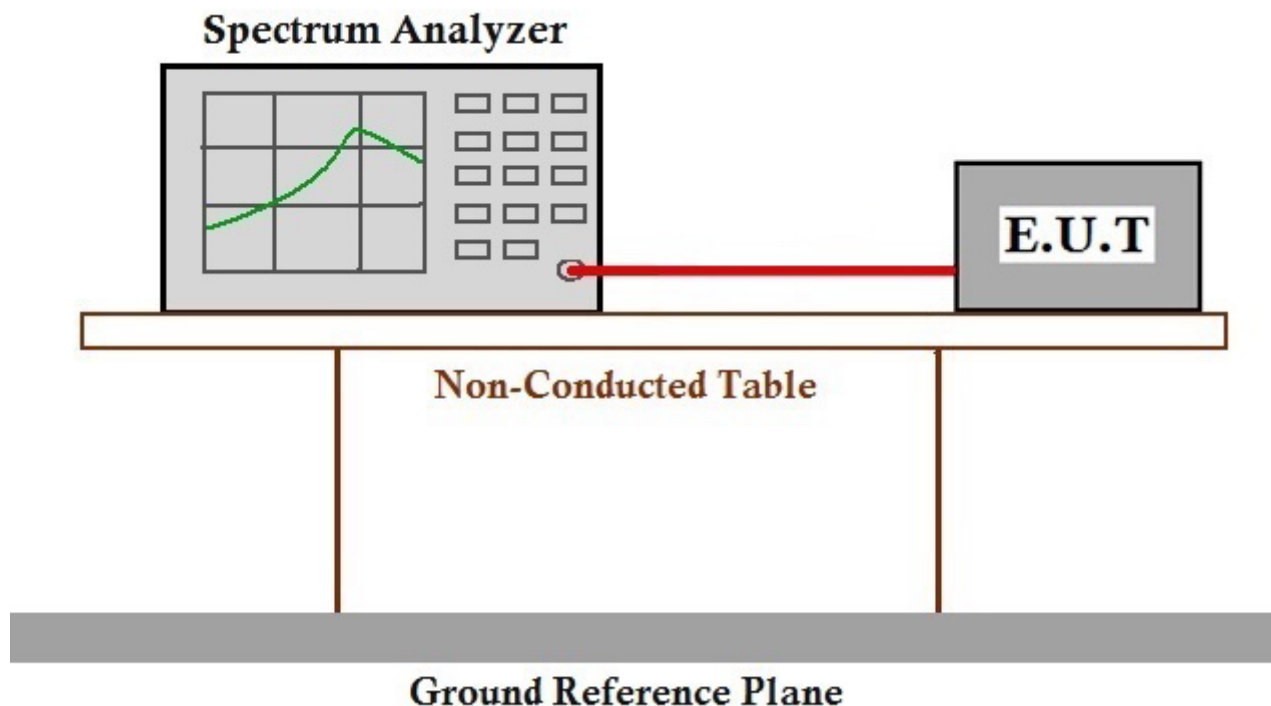
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7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211200092502



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

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

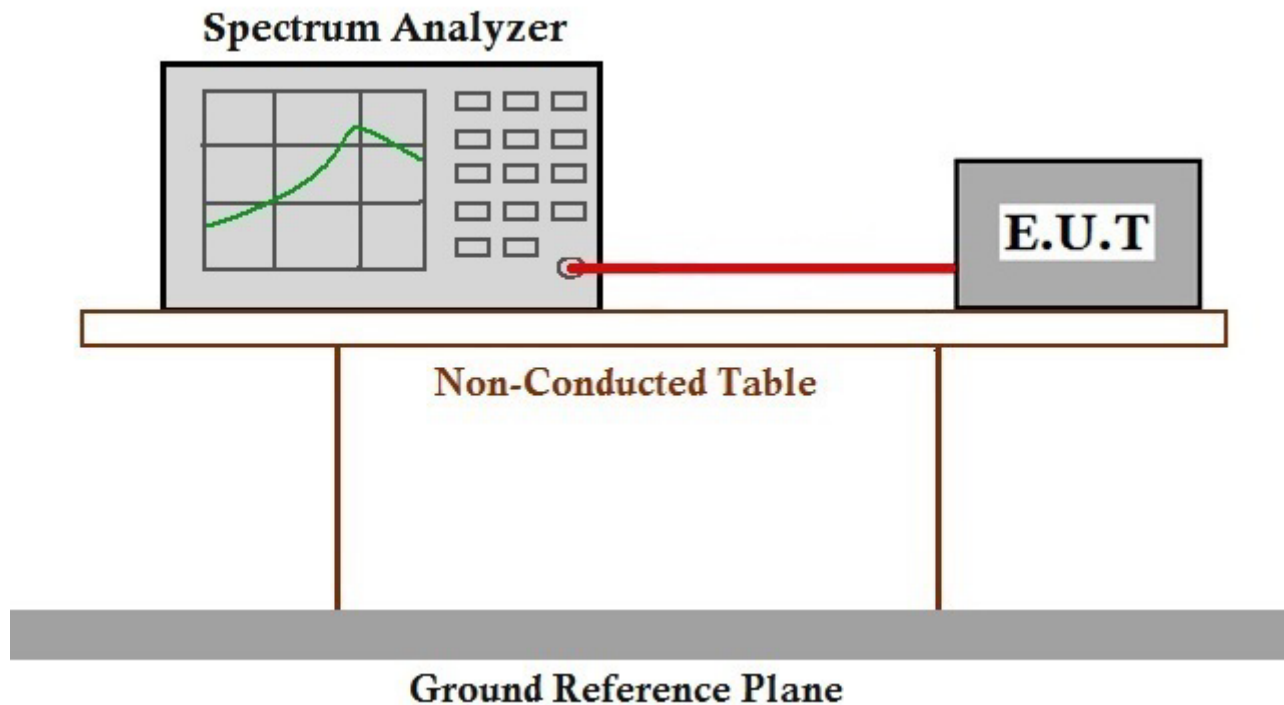
7.5.1 E.U.T. Operation

Operating Environment:

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

Test mode e:TX mode (Band 3)_Powered by AC 24V and 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 SHCR211200092502



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7.6 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	$\leq 1W(30dBm)$ for master device
	$\leq 250mW(24dBm)$ for client device
5250-5350	$\leq 250mW(24dBm)$ for client device or $11dBm+10\log B^*$
5470-5725	$\leq 250mW(24dBm)$ for client device or $11dBm+10\log B^*$
5725-5850	$\leq 1W(30dBm)$
Remark:	<p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>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>



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7.6.1 E.U.T. Operation

Operating Environment:

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

Test mode: b:TX mode (Band 1)_Powered by AC 24V and 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:TX mode (Band 2A)_Powered by AC 24V and 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.

d:TX mode (Band 2C)_Powered by AC 24V and 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.

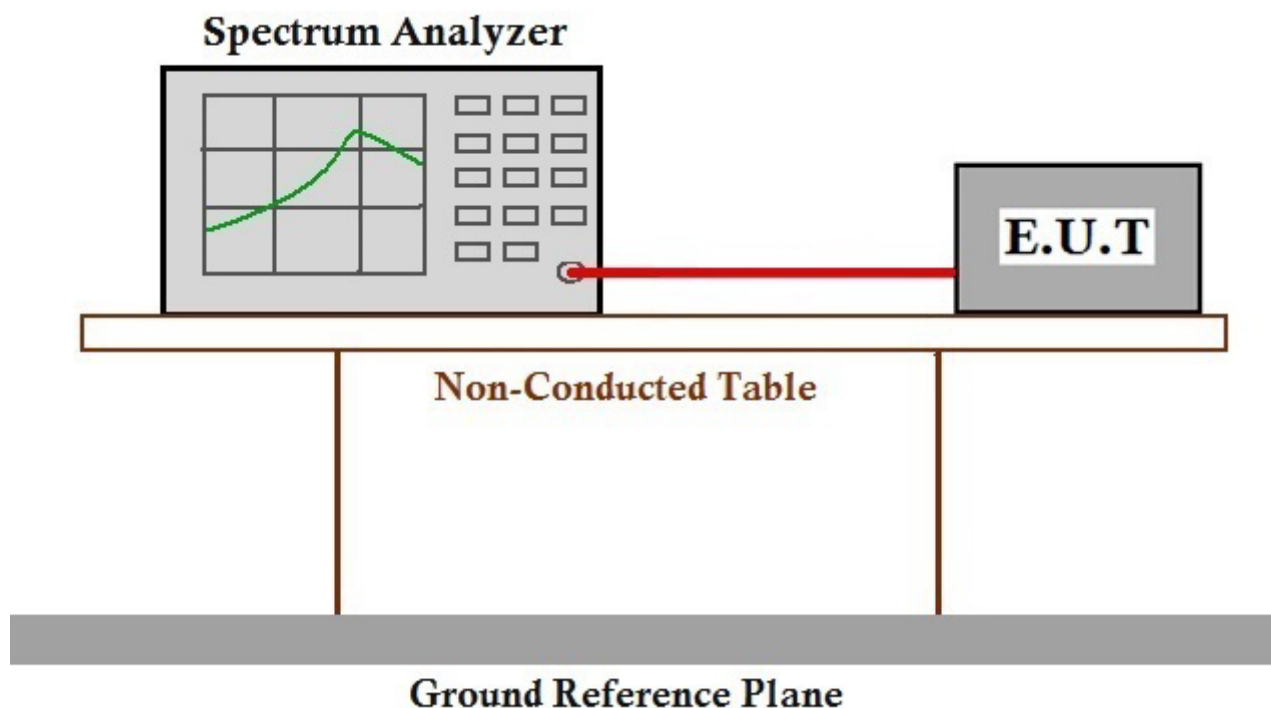
e:TX mode (Band 3)_Powered by AC 24V and keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data 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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7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211200092502

7.7 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

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



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7.7.1 E.U.T. Operation

Operating Environment:

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

Test mode: b:TX mode (Band 1)_Powered by AC 24V and 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:TX mode (Band 2A)_Powered by AC 24V and 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.

d:TX mode (Band 2C)_Powered by AC 24V and 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.

e:TX mode (Band 3)_Powered by AC 24V and 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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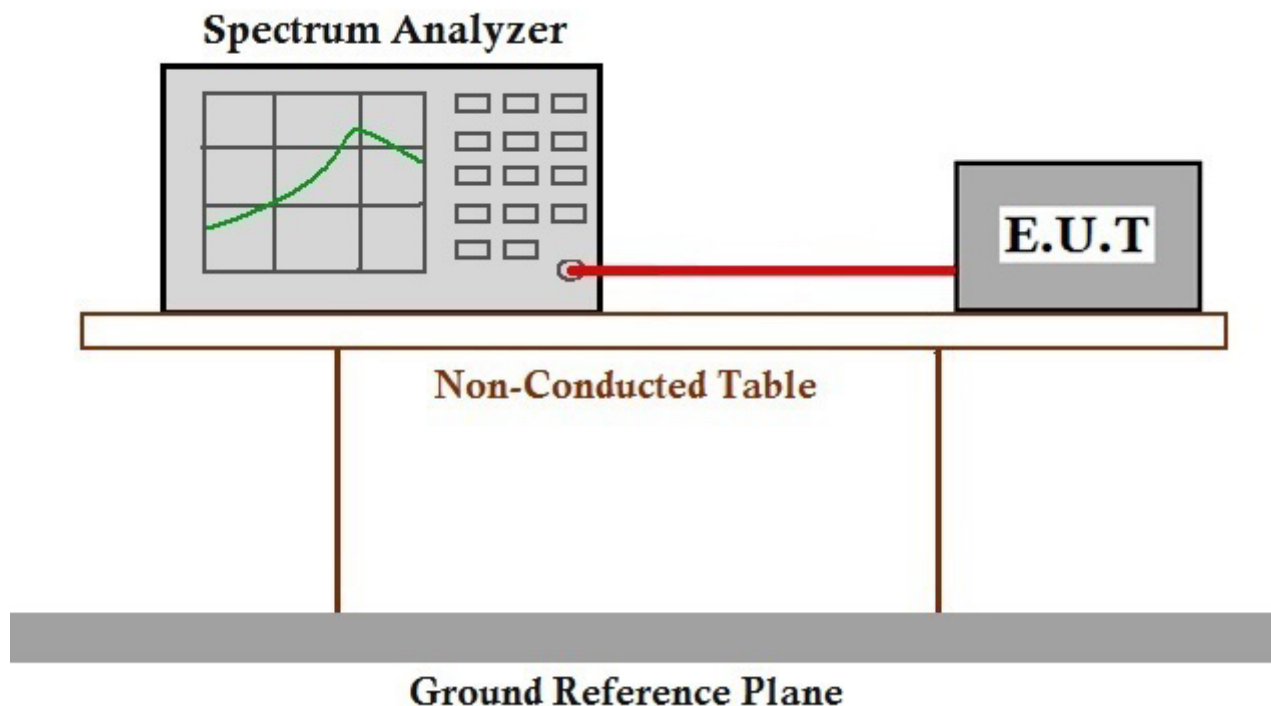
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7.7.2 Test Setup Diagram



7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211200092502

7.8 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.



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7.8.1 E.U.T. Operation

Operating Environment:

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

Test mode: b:TX mode (Band 1)_Powered by AC 24V and 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:TX mode (Band 2A)_Powered by AC 24V and 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.

d:TX mode (Band 2C)_Powered by AC 24V and 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.

e:TX mode (Band 3)_Powered by AC 24V and 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.

g:TX mode (Band 1)_Powered by DC 5V via USB and 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:TX mode (Band 2A)_Powered by DC 5V via USB and 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.



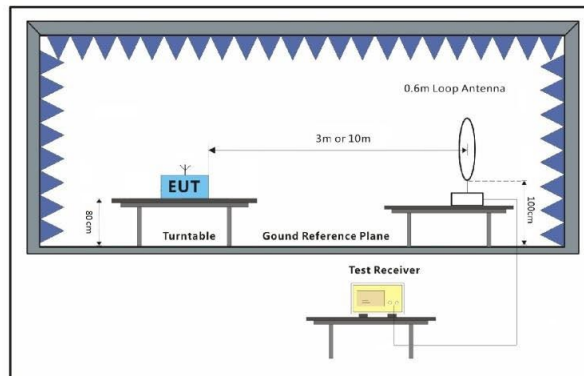
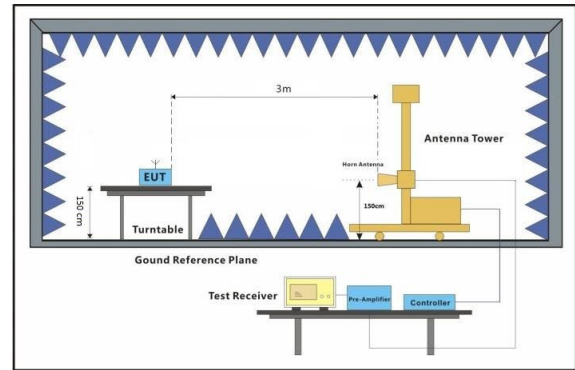
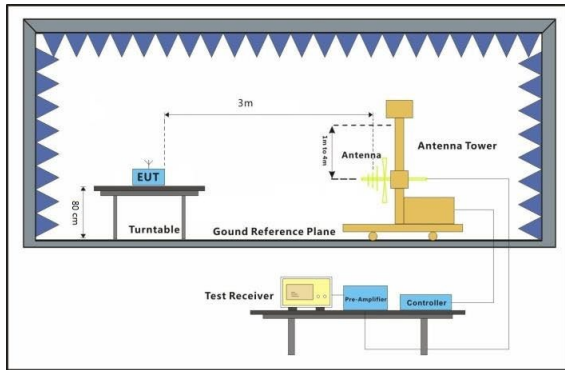
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i:TX mode (Band 2C)_Powered by DC 5V via USB and keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data 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.

j:TX mode (Band 3)_Powered by DC 5V via USB and keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.8.2 Test Setup Diagram



7.8.3 Measurement Procedure and Data

- 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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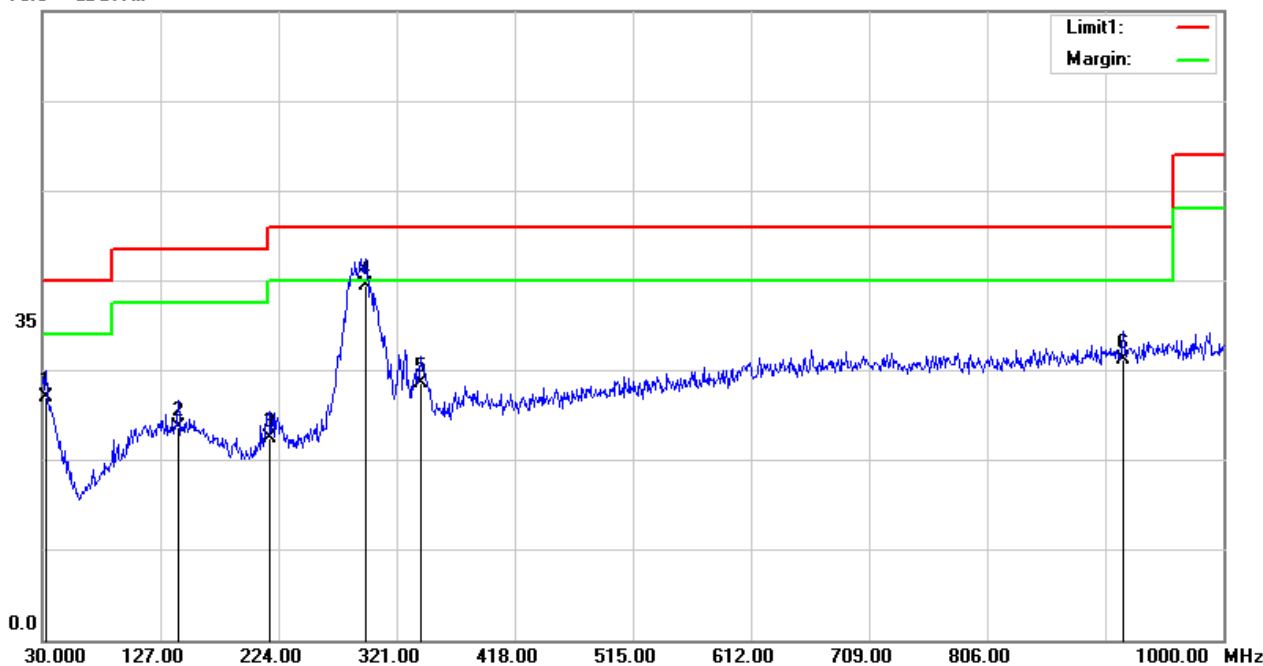
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Below 1GHz

Mode:b; Polarization:Horizontal.

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	32.9100	2.72	24.27	26.99	40.00	-13.01	100	15	QP
2	141.5500	3.84	19.86	23.70	43.50	-19.80	100	201	QP
3	216.2400	5.30	17.25	22.55	46.00	-23.45	100	60	QP
4	295.7800	18.99	20.51	39.50	46.00	-6.50	100	306	QP
5	340.4000	6.54	22.04	28.58	46.00	-17.42	100	283	QP
6	917.5500	2.43	28.89	31.32	46.00	-14.68	161	0	QP



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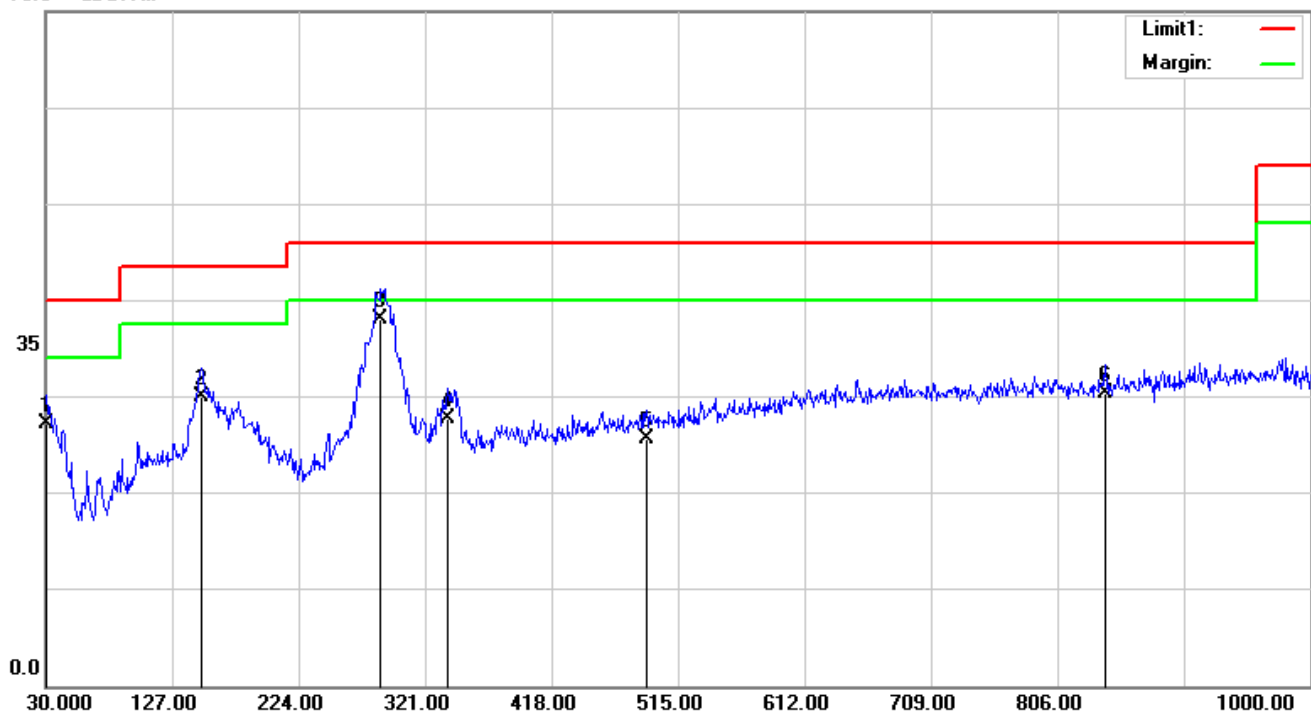
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Mode:b; Polarization: Vertical.

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.9700	1.75	25.38	27.13	40.00	-12.87	100	123	QP
2	149.3100	9.87	20.12	29.99	43.50	-13.51	100	114	QP
3	287.0500	17.86	20.28	38.14	46.00	-7.86	100	57	QP
4	338.4600	5.85	21.97	27.82	46.00	-18.18	100	182	QP
5	490.7500	0.61	25.07	25.68	46.00	-20.32	100	218	QP
6	842.8600	2.35	28.04	30.39	46.00	-15.61	100	147	QP



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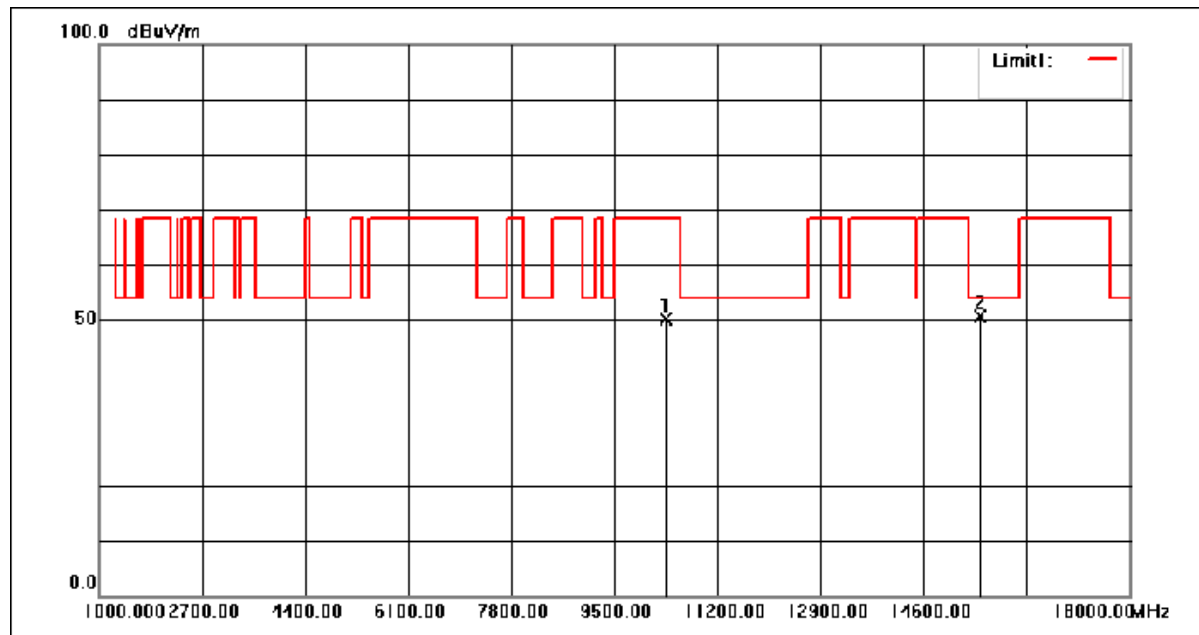
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Testing Center EMC Lab (201612)

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Above 1GHz

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.96	0.16	50.12	68.30	-18.18	peak
2	15540.000	44.80	5.73	50.53	54.00	-3.47	peak



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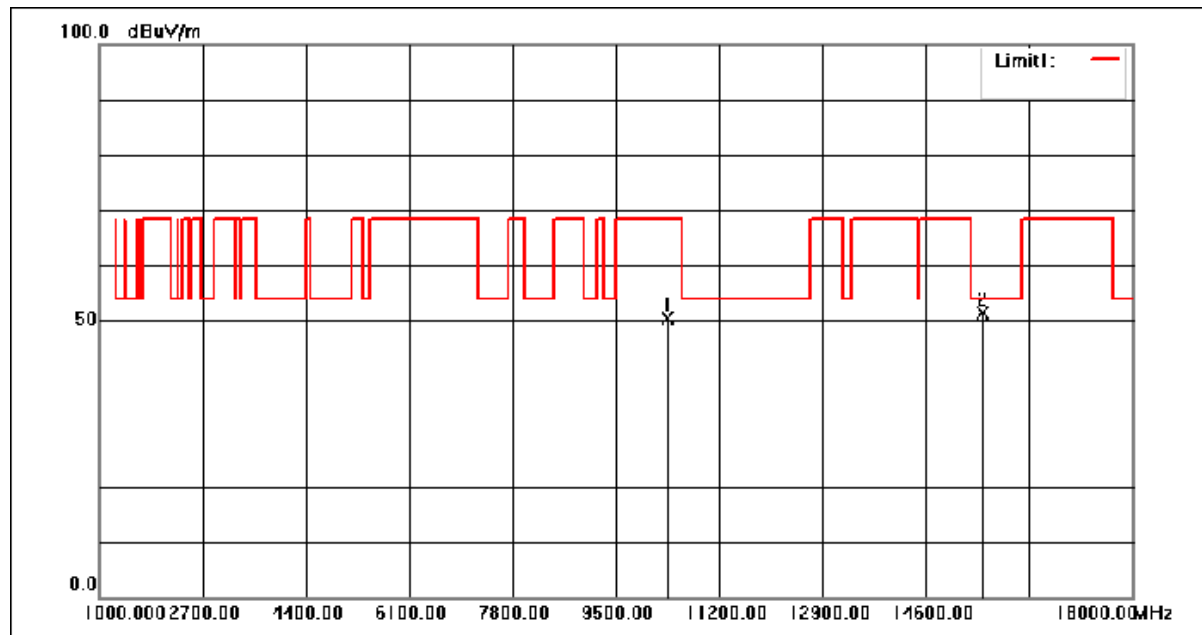
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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.29	0.16	50.45	68.30	-17.85	peak
2	15540.000	45.68	5.73	51.41	54.00	-2.59	peak



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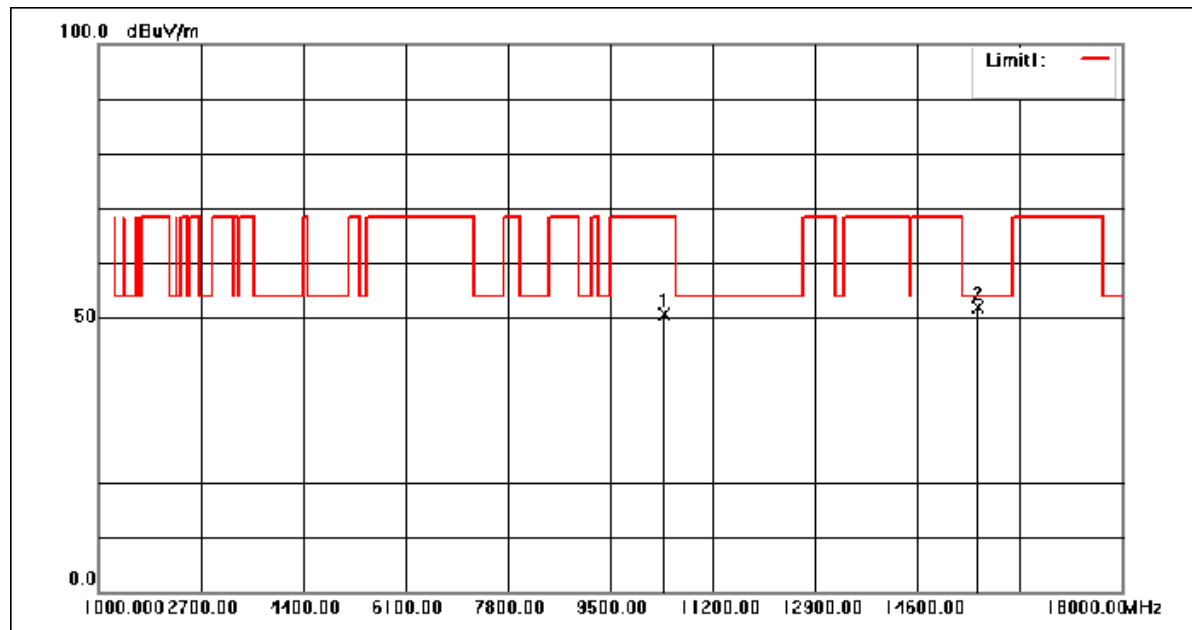
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Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.42	0.24	50.66	68.30	-17.64	peak
2	15600.000	46.00	5.85	51.85	54.00	-2.15	peak



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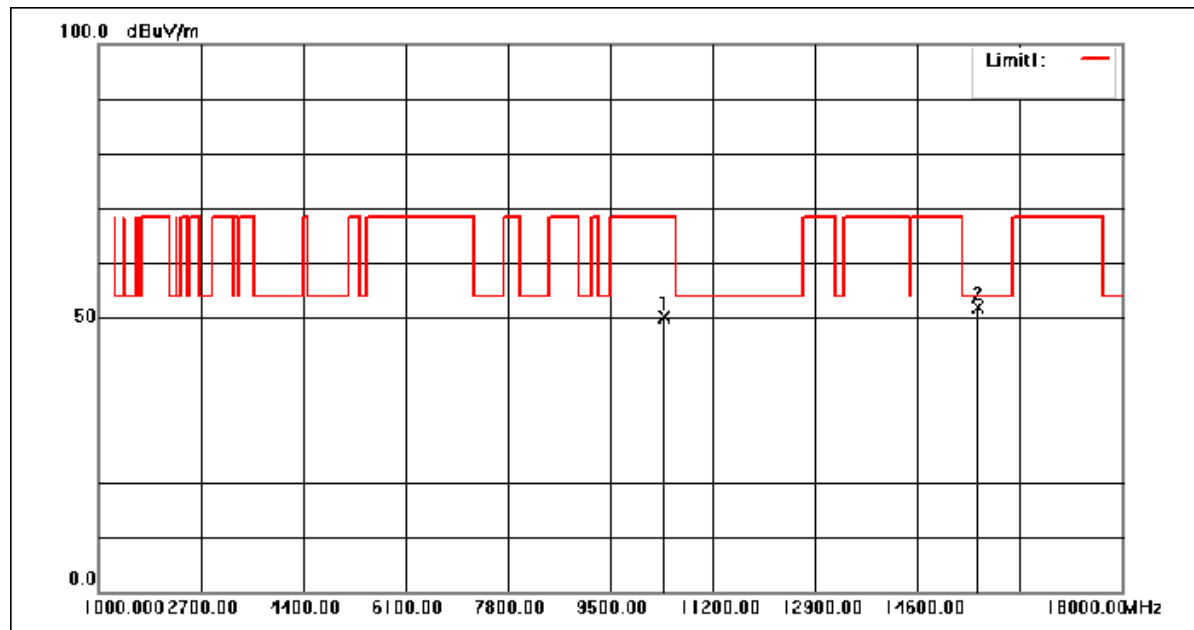
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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	49.91	0.24	50.15	68.30	-18.15	peak
2	15600.000	45.93	5.85	51.78	54.00	-2.22	peak



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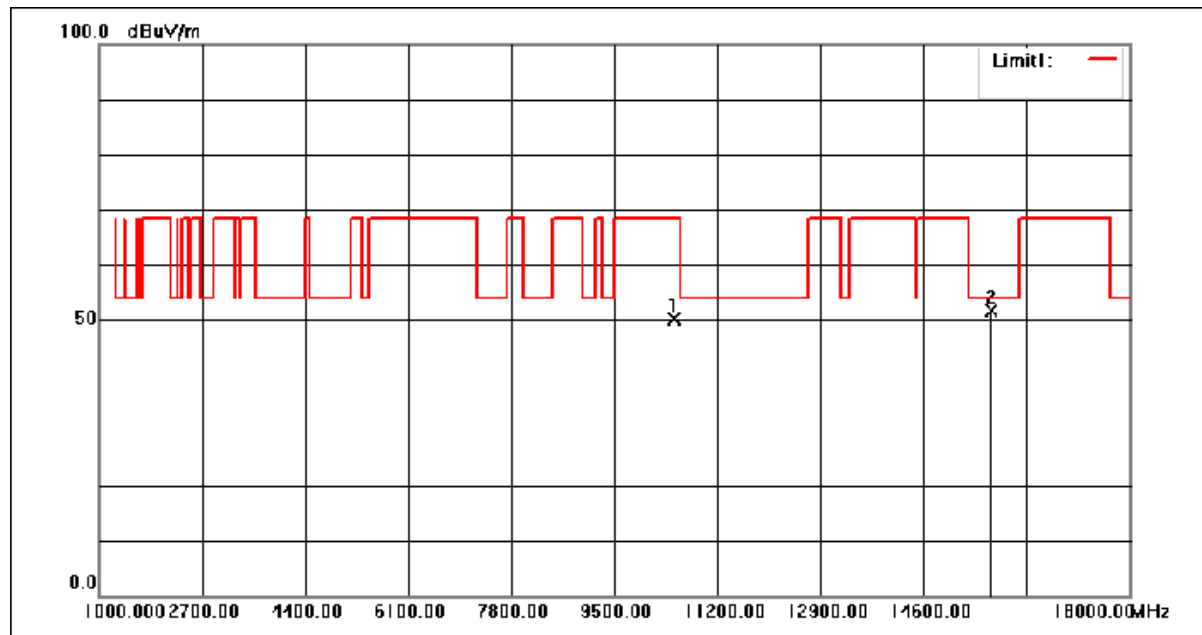
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Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.84	0.40	50.24	68.30	-18.06	peak
2	15720.000	45.65	6.10	51.75	54.00	-2.25	peak



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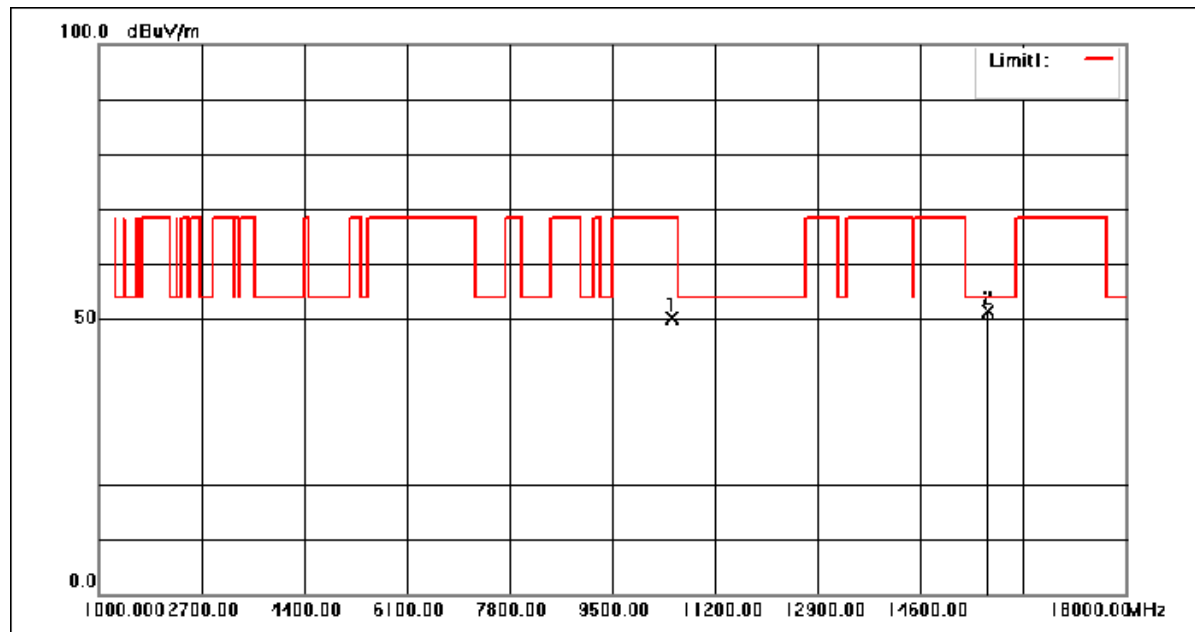
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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.72	0.40	50.12	68.30	-18.18	peak
2	15720.000	45.26	6.10	51.36	54.00	-2.64	peak



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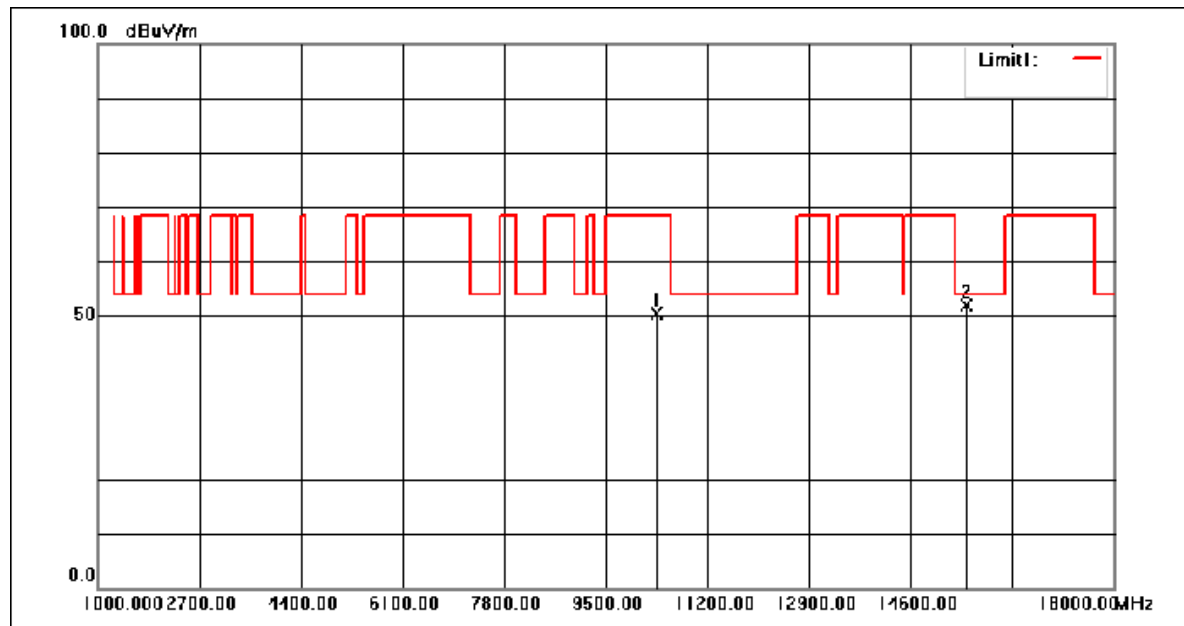
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.34	0.16	50.50	68.30	-17.80	peak
2	15540.000	46.20	5.73	51.93	54.00	-2.07	peak



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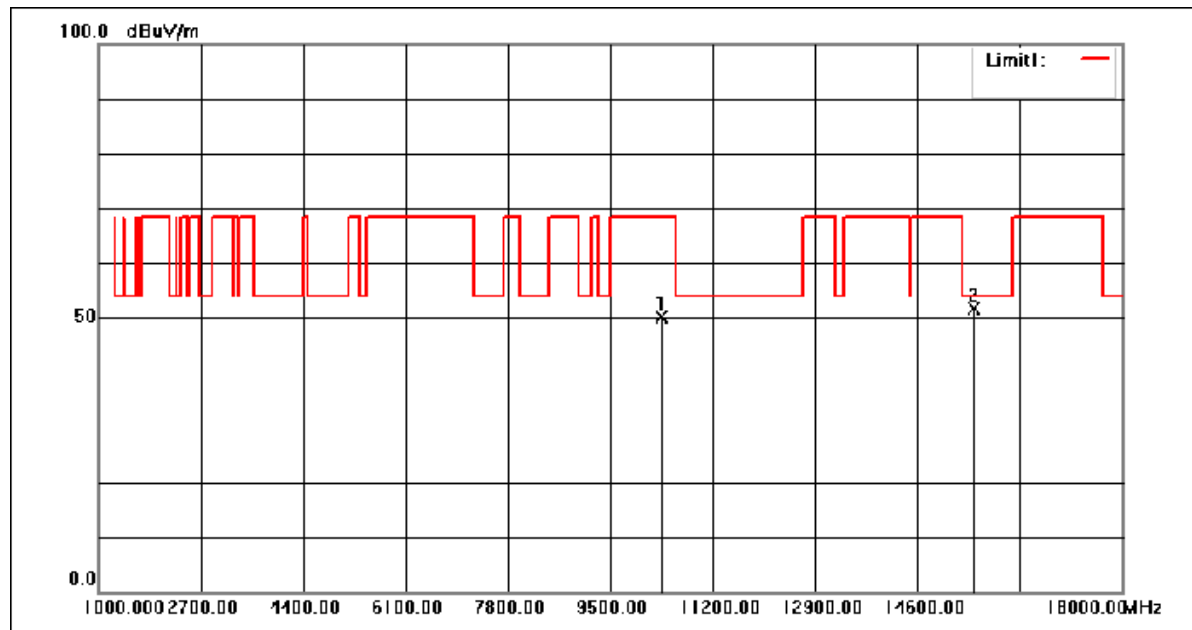
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.07	0.16	50.23	68.30	-18.07	peak
2	15540.000	45.95	5.73	51.68	54.00	-2.32	peak



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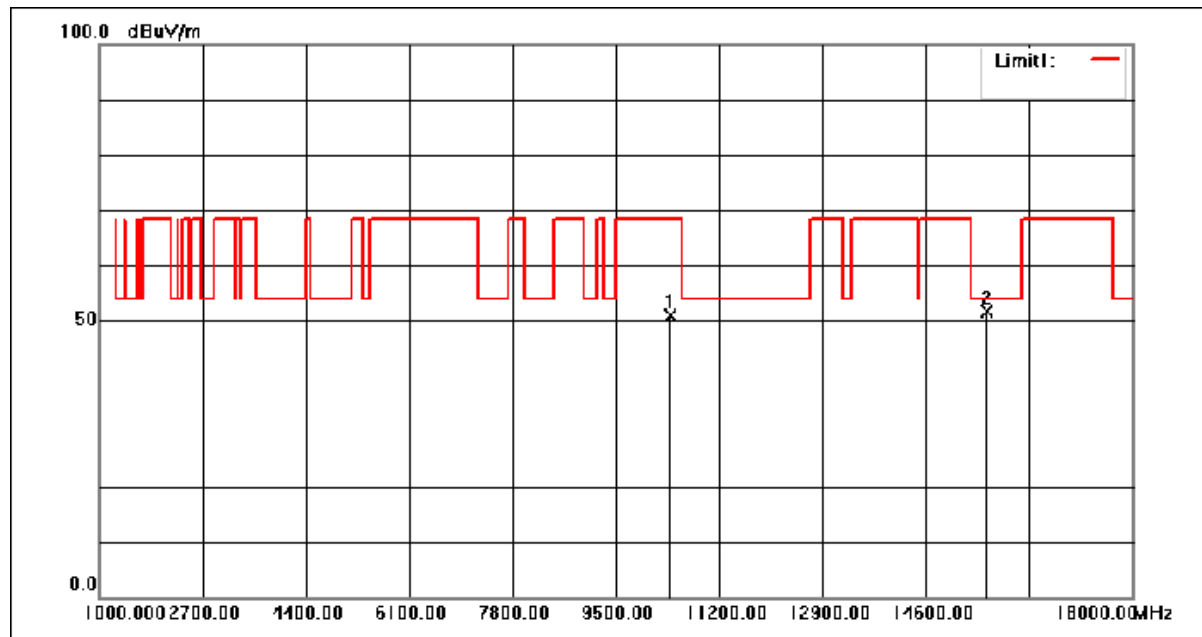
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.66	0.24	50.90	68.30	-17.40	peak
2	15600.000	45.66	5.85	51.51	54.00	-2.49	peak



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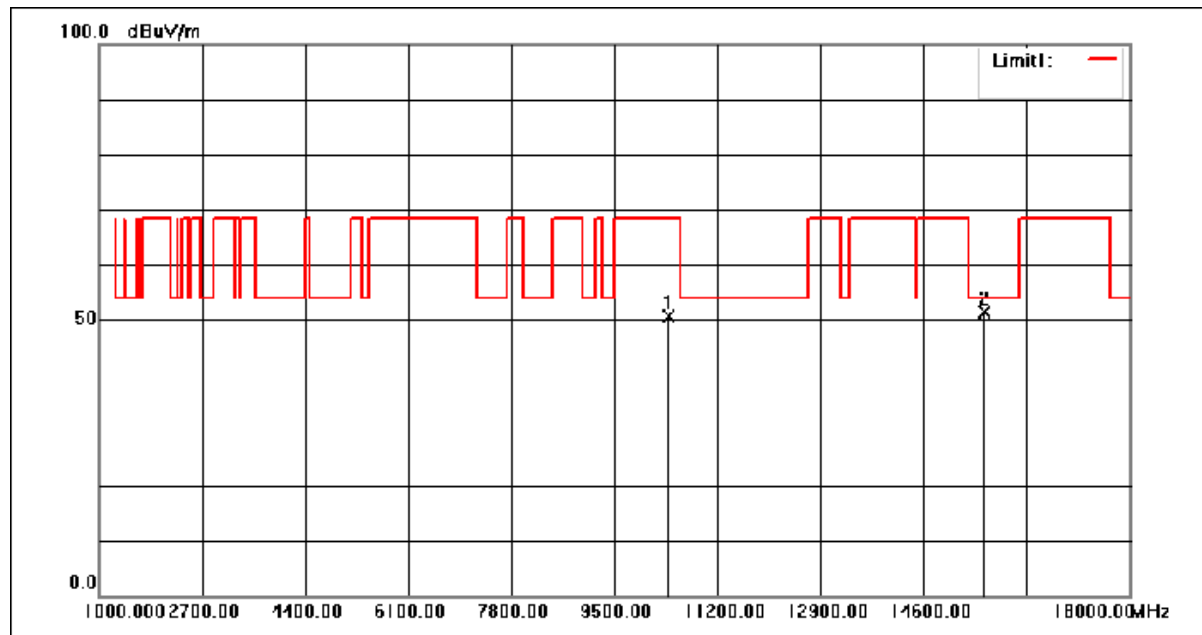
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.33	0.24	50.57	68.30	-17.73	peak
2	15600.000	45.49	5.85	51.34	54.00	-2.66	peak



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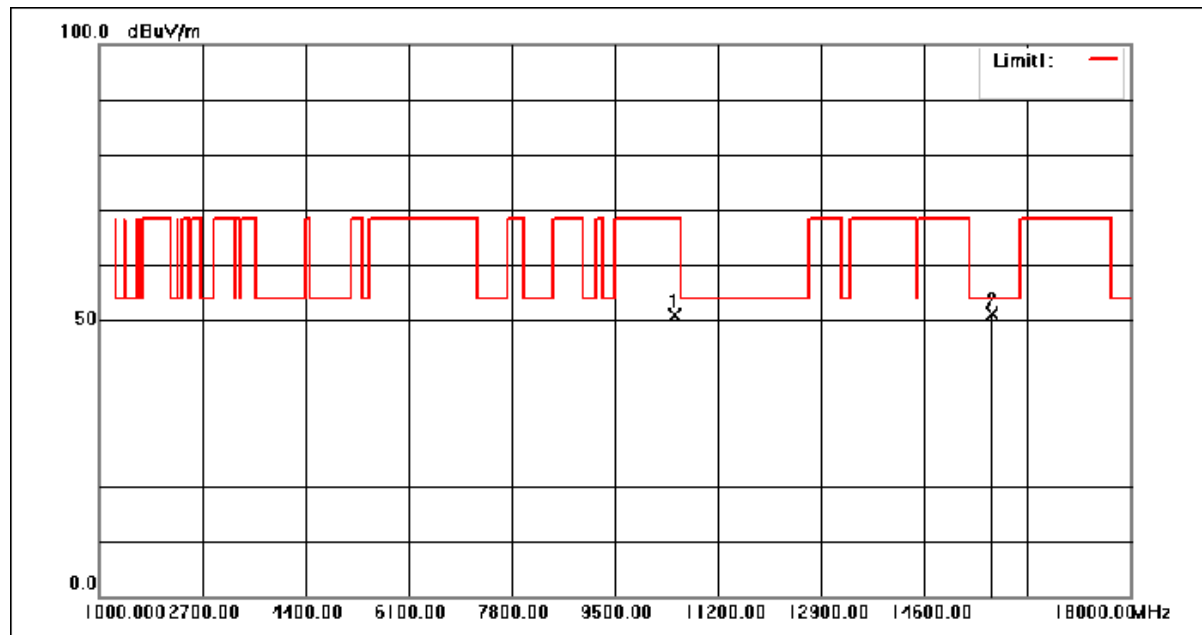
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	50.55	0.40	50.95	68.30	-17.35	peak
2	15720.000	45.12	6.10	51.22	54.00	-2.78	peak



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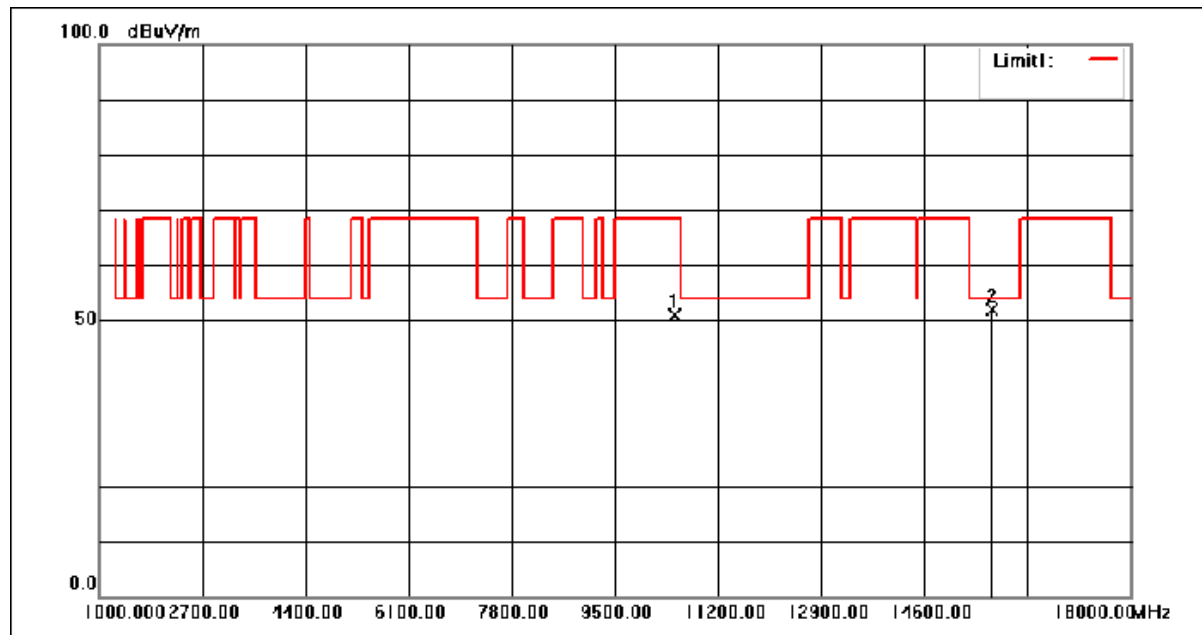
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	50.38	0.40	50.78	68.30	-17.52	peak
2	15720.000	45.82	6.10	51.92	54.00	-2.08	peak



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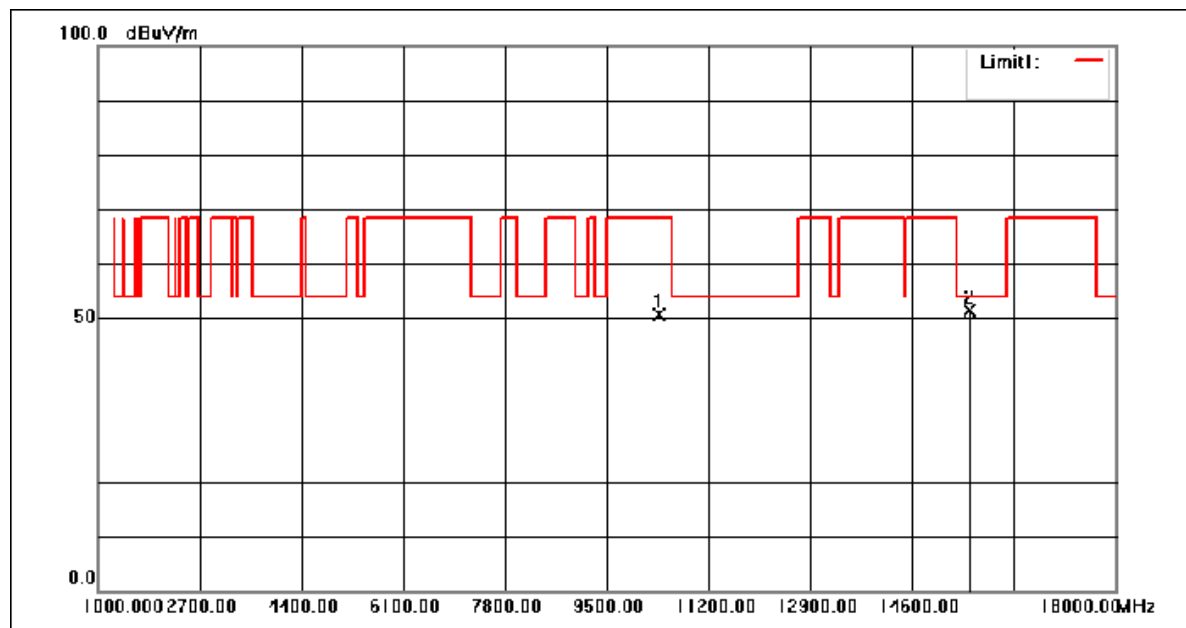
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.53	0.20	50.73	68.30	-17.57	peak
2	15570.000	45.59	5.79	51.38	54.00	-2.62	peak



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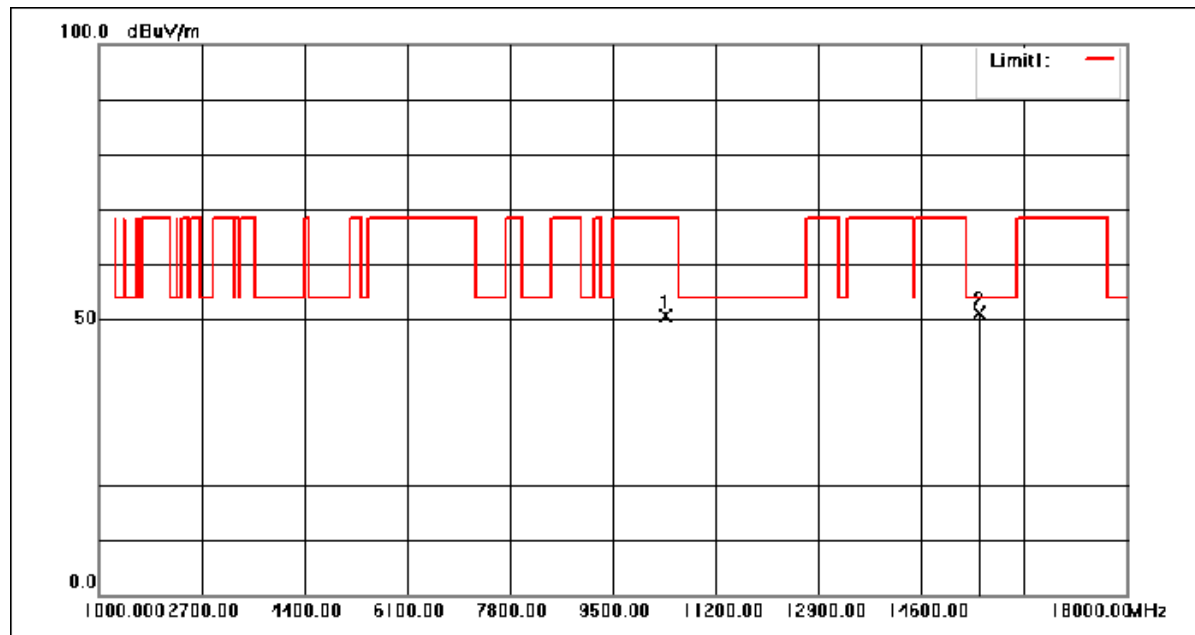
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.44	0.20	50.64	68.30	-17.66	peak
2	15570.000	45.32	5.79	51.11	54.00	-2.89	peak



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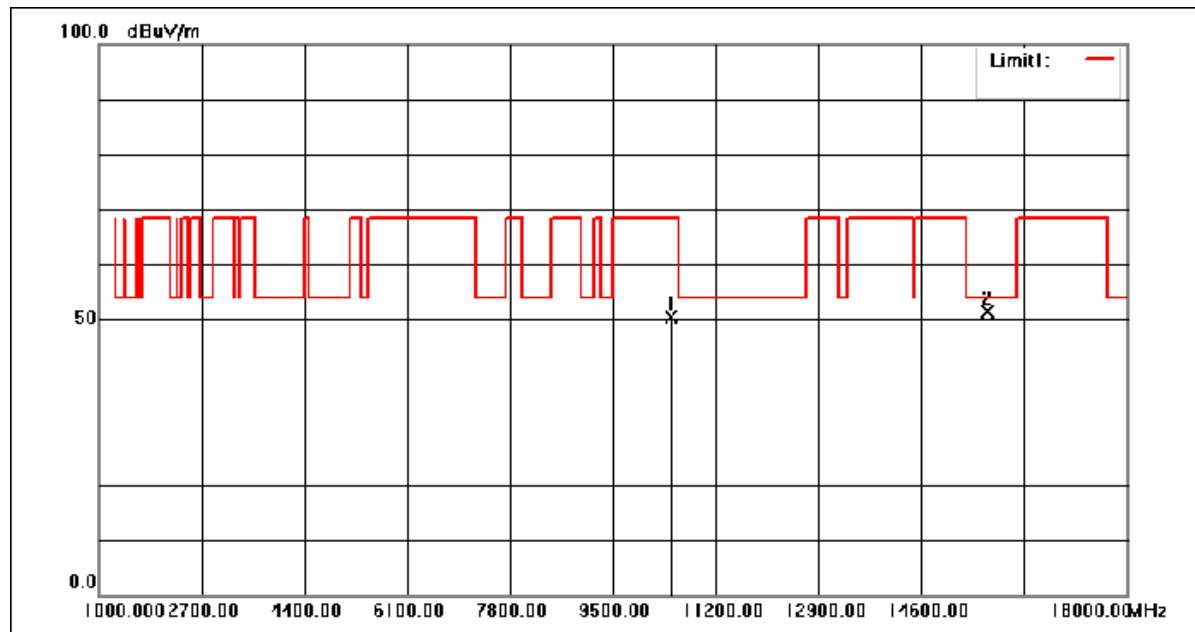
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	50.02	0.36	50.38	68.30	-17.92	peak
2	15690.000	45.38	6.04	51.42	54.00	-2.58	peak



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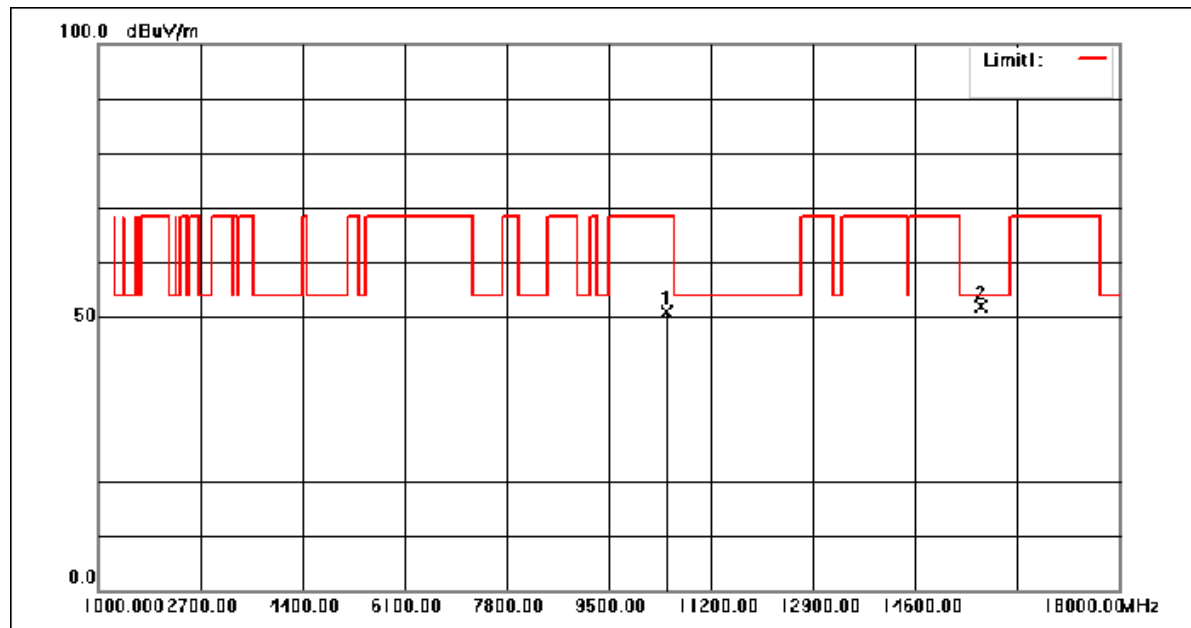
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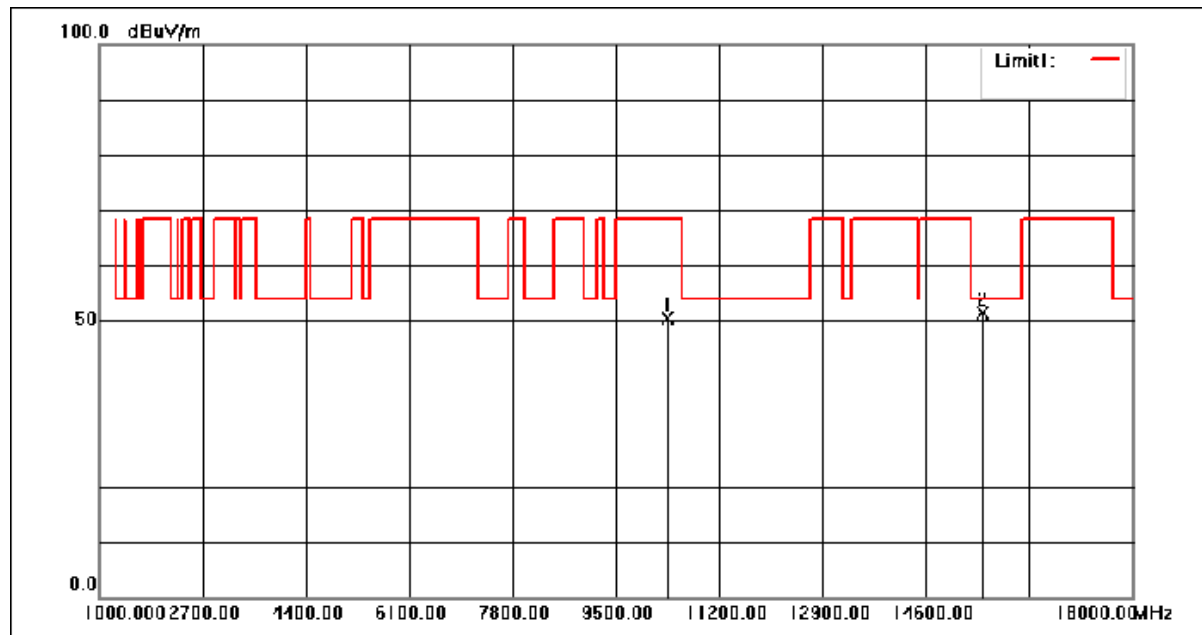
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	50.41	0.36	50.77	68.30	-17.53	peak
2	15690.000	45.79	6.04	51.83	54.00	-2.17	peak

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	50.11	0.16	50.27	68.30	-18.03	peak
2	15540.000	45.71	5.73	51.44	54.00	-2.56	peak



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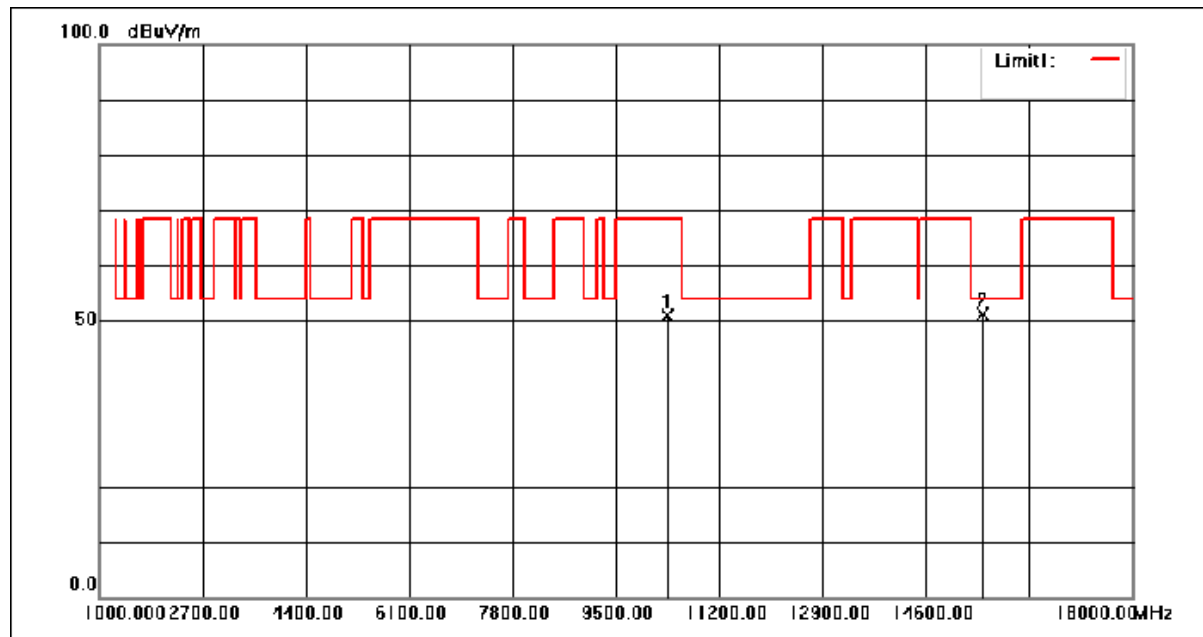
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.75	0.16	50.91	68.30	-17.39	peak
2	15540.000	45.39	5.73	51.12	54.00	-2.88	peak



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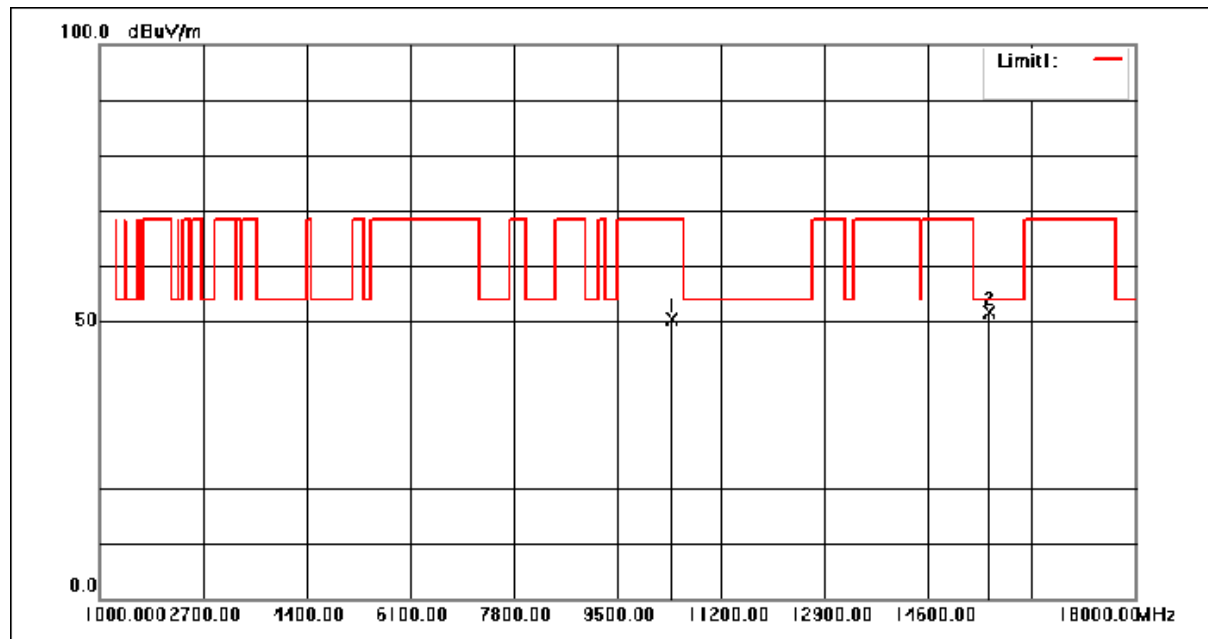
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.21	0.24	50.45	68.30	-17.85	peak
2	15600.000	45.76	5.85	51.61	54.00	-2.39	peak



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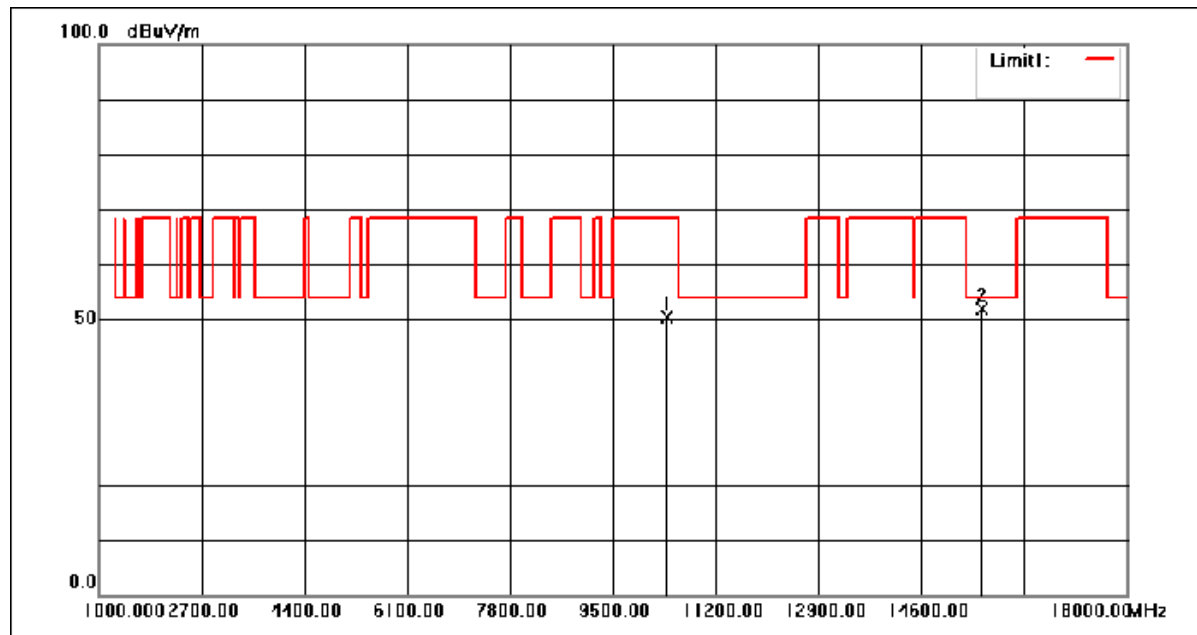
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.02	0.24	50.26	68.30	-18.04	peak
2	15600.000	45.96	5.85	51.81	54.00	-2.19	peak



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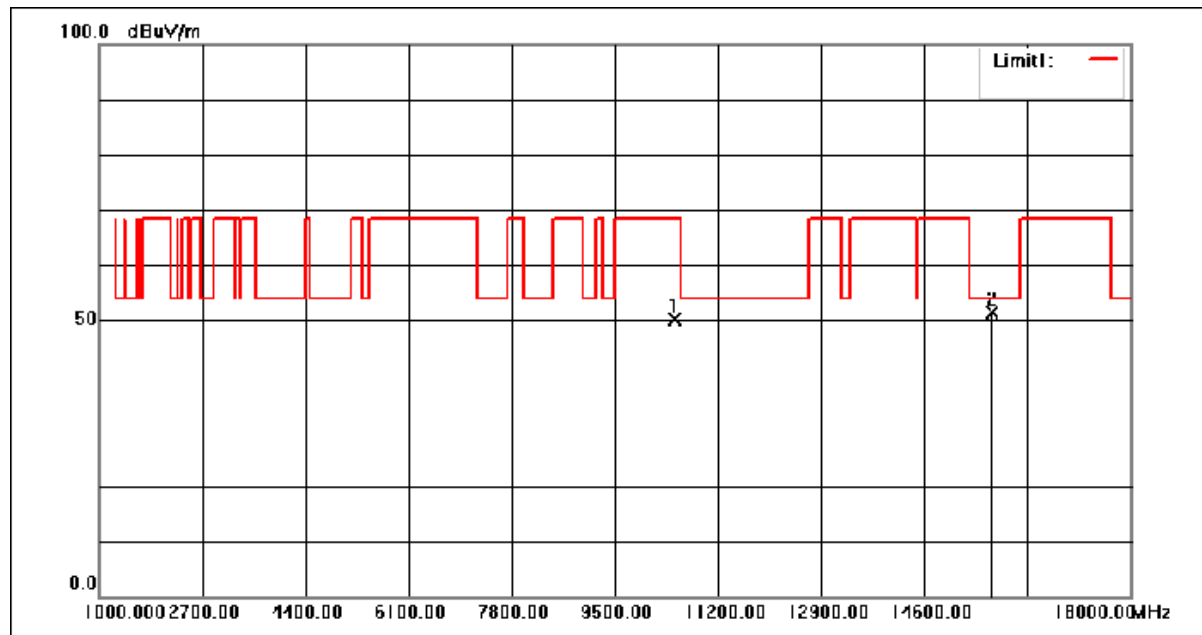
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.78	0.40	50.18	68.30	-18.12	peak
2	15720.000	45.25	6.10	51.35	54.00	-2.65	peak



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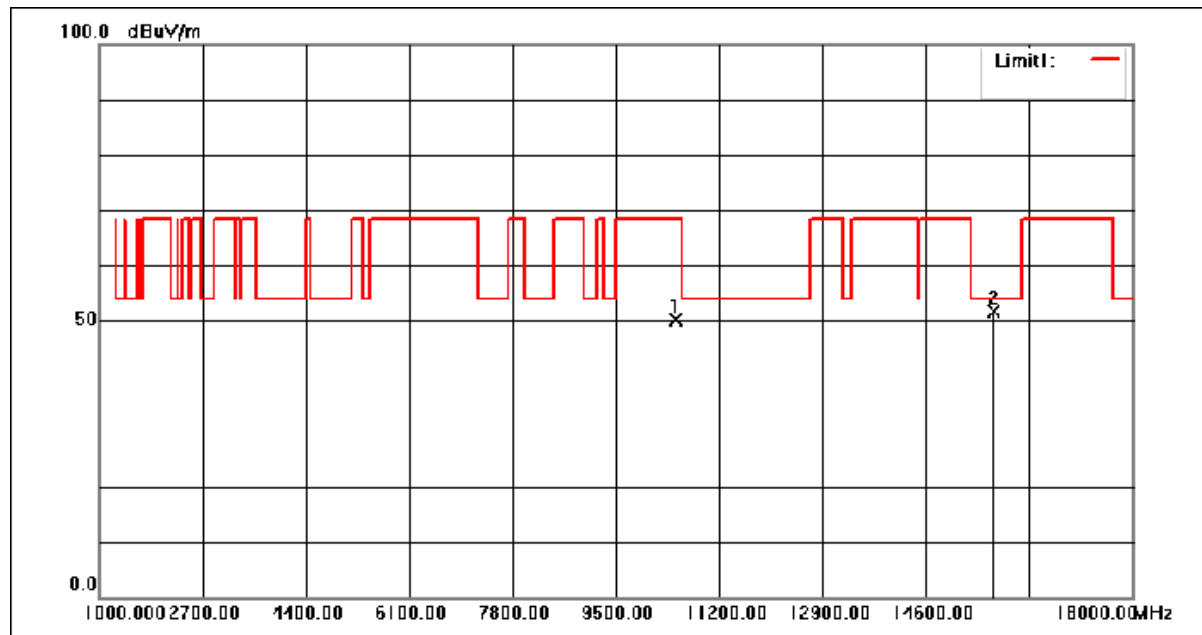
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.83	0.40	50.23	68.30	-18.07	peak
2	15720.000	45.61	6.10	51.71	54.00	-2.29	peak



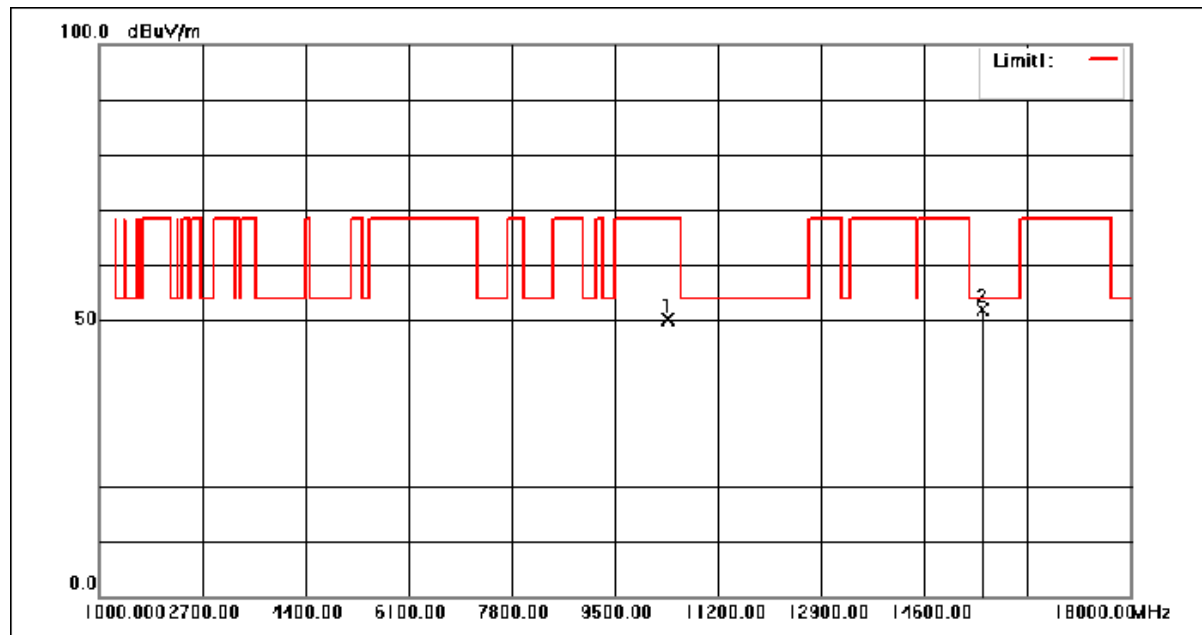
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.05	0.20	50.25	68.30	-18.05	peak
2	15570.000	46.00	5.79	51.79	54.00	-2.21	peak



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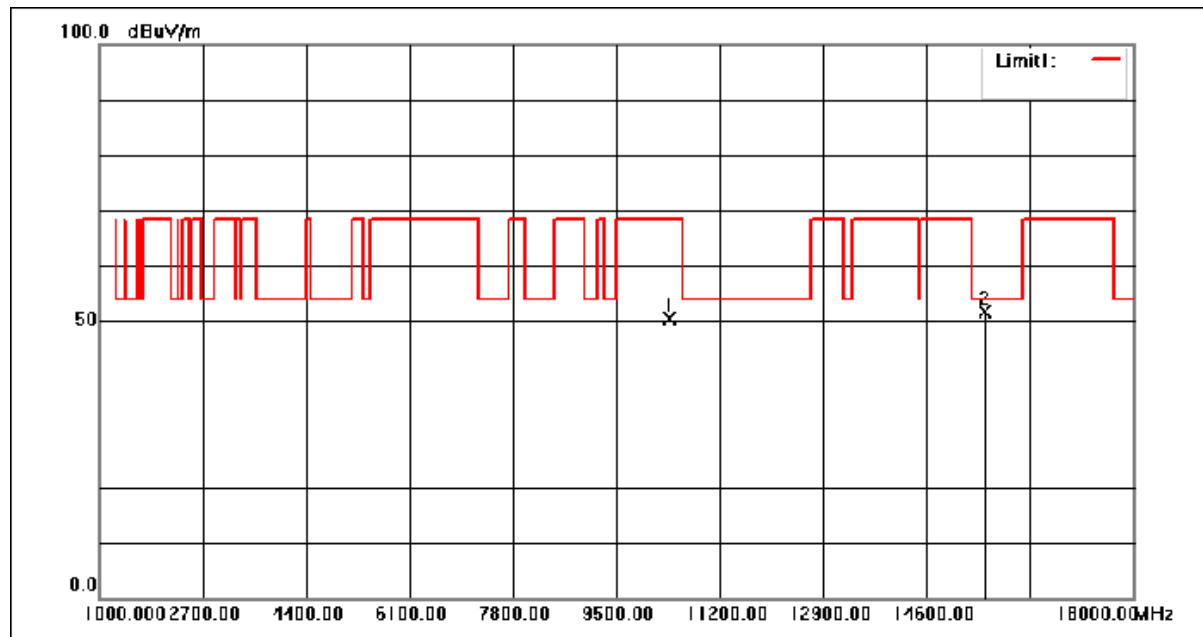
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.17	0.20	50.37	68.30	-17.93	peak
2	15570.000	45.77	5.79	51.56	54.00	-2.44	peak



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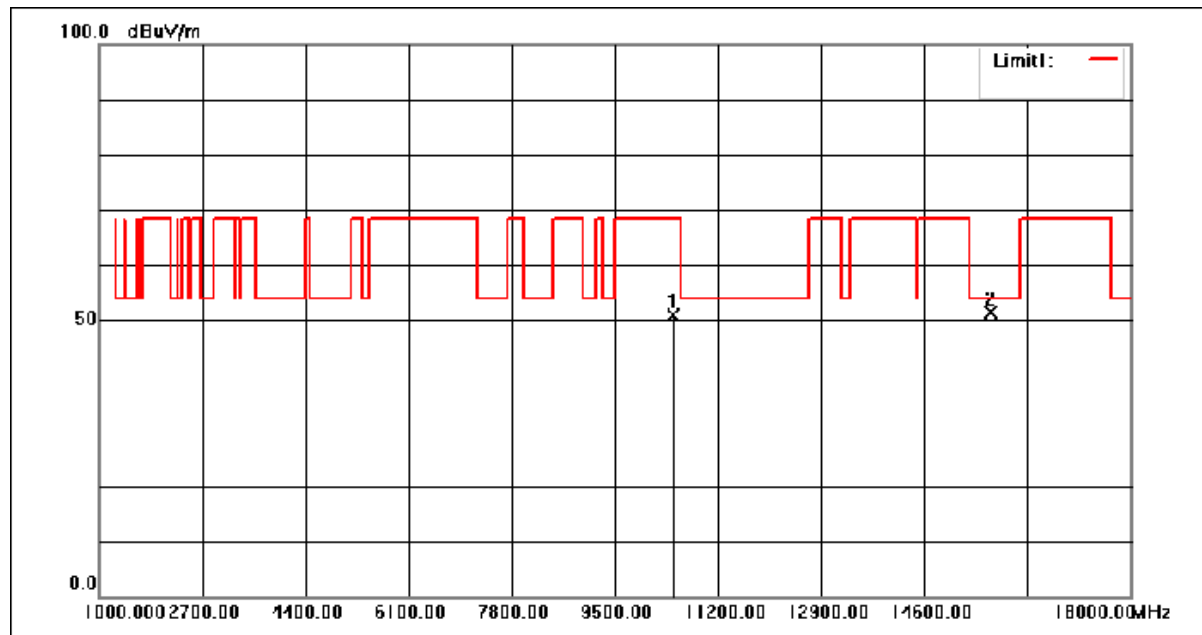
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	50.48	0.36	50.84	68.30	-17.46	peak
2	15690.000	45.45	6.04	51.49	54.00	-2.51	peak



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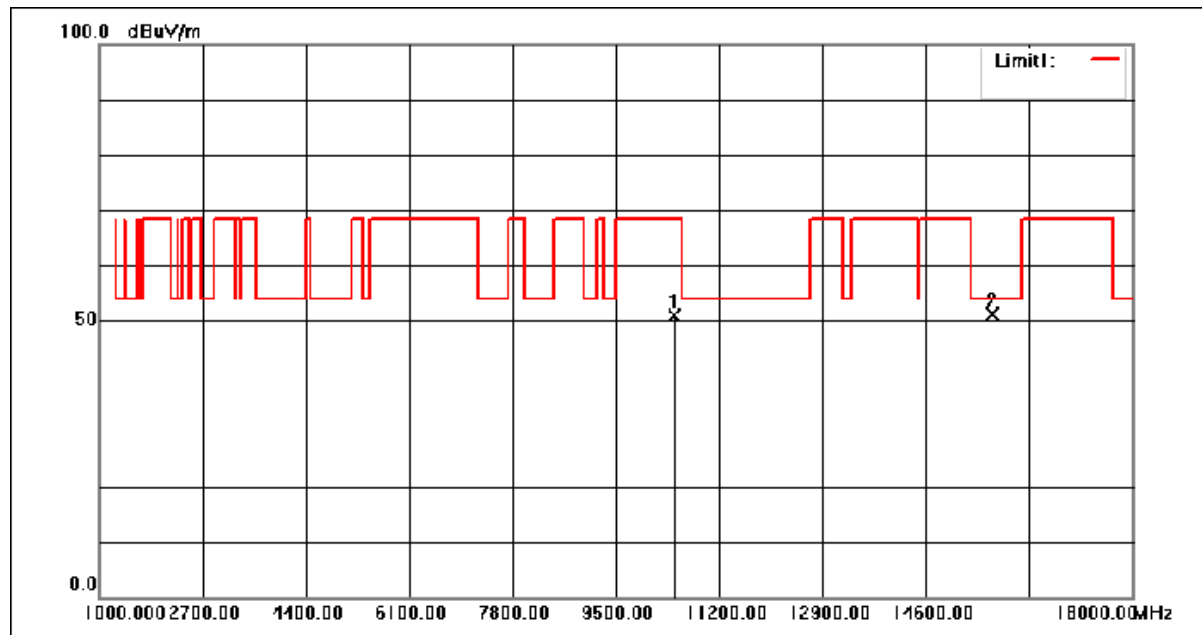
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	50.53	0.36	50.89	68.30	-17.41	peak
2	15690.000	44.98	6.04	51.02	54.00	-2.98	peak



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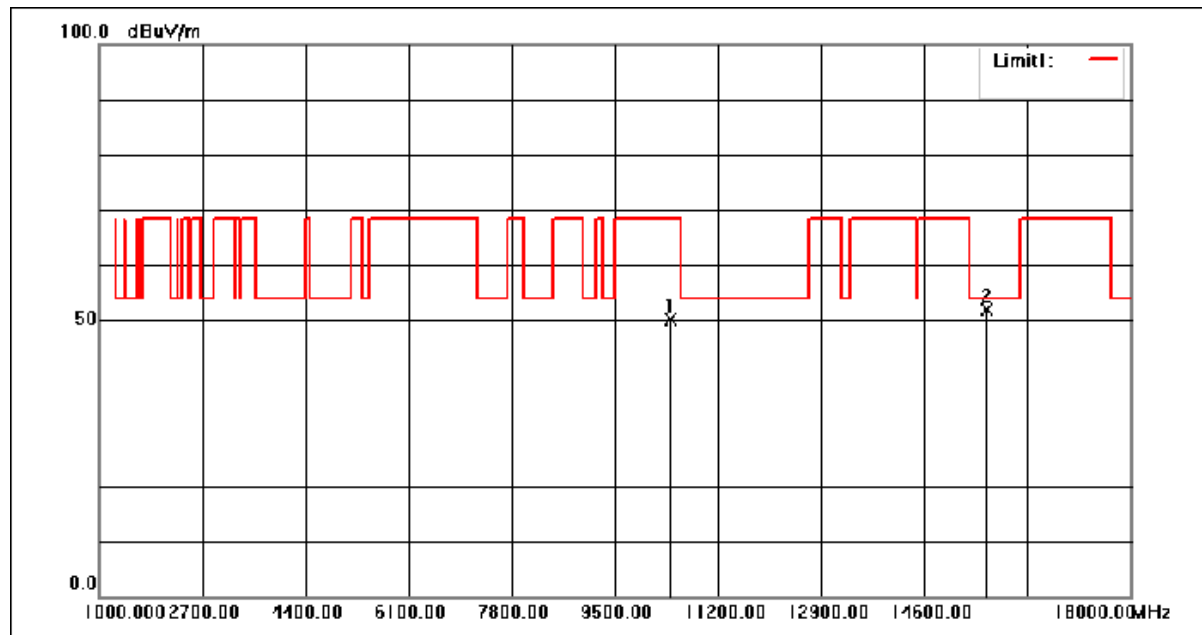
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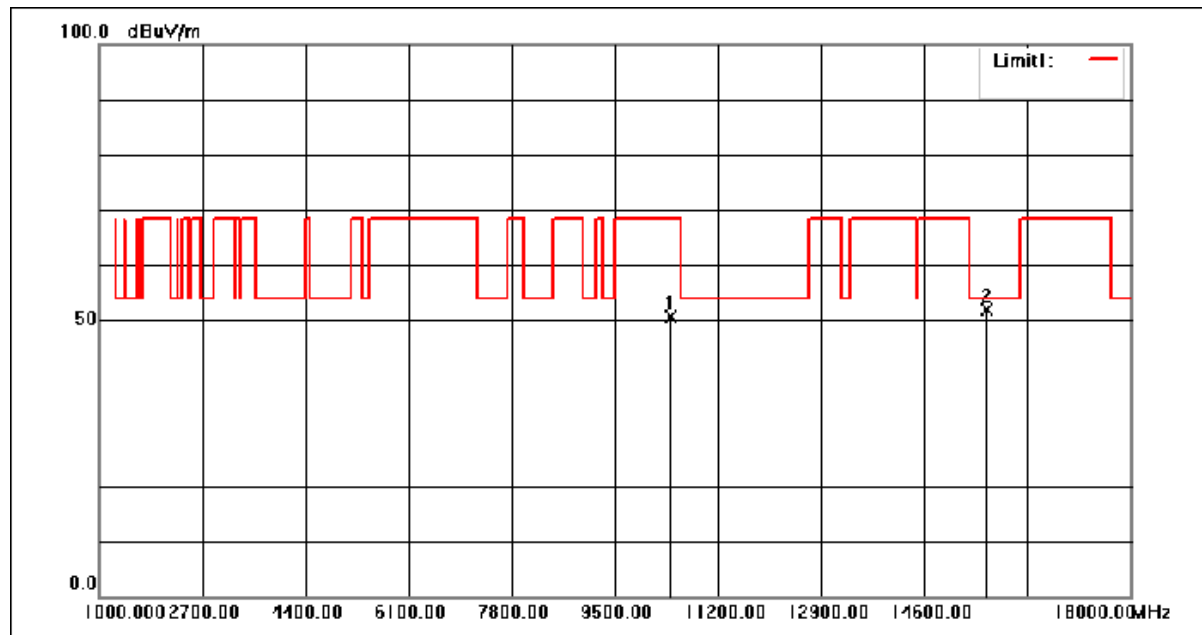
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	49.85	0.28	50.13	68.30	-18.17	peak
2	15630.000	45.96	5.92	51.88	54.00	-2.12	peak

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	50.42	0.28	50.70	68.30	-17.60	peak
2	15630.000	46.05	5.92	51.97	54.00	-2.03	peak



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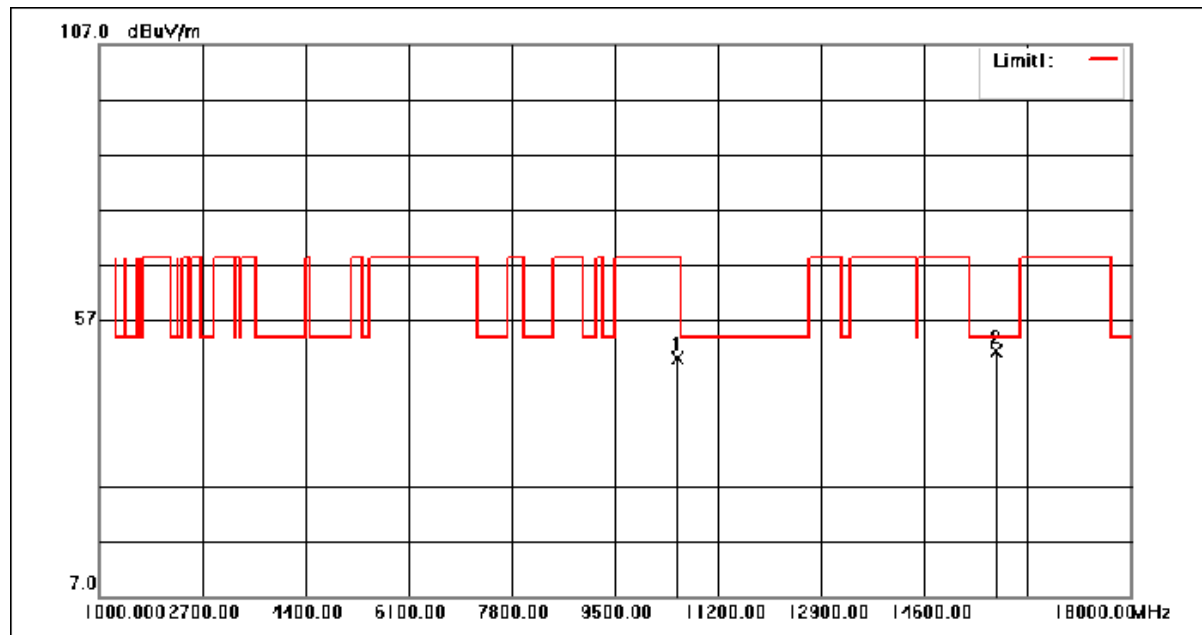
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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	49.78	0.44	50.22	68.30	-18.08	peak
2	15780.000	45.04	6.23	51.27	54.00	-2.73	peak



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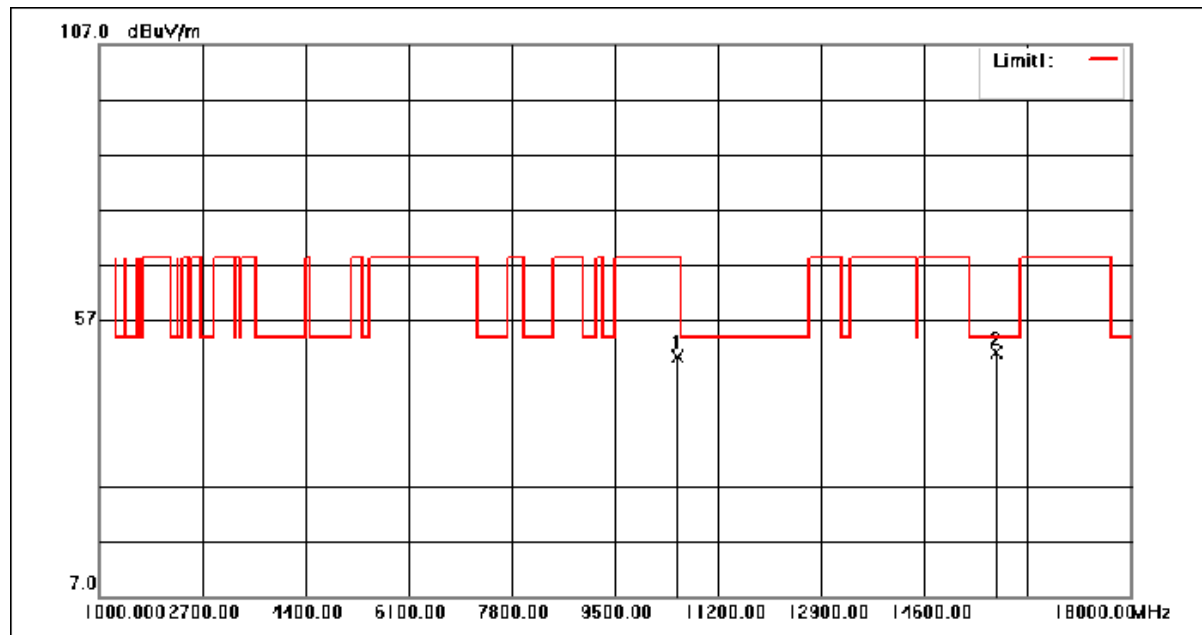
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	49.95	0.44	50.39	68.30	-17.91	peak
2	15780.000	44.93	6.23	51.16	54.00	-2.84	peak



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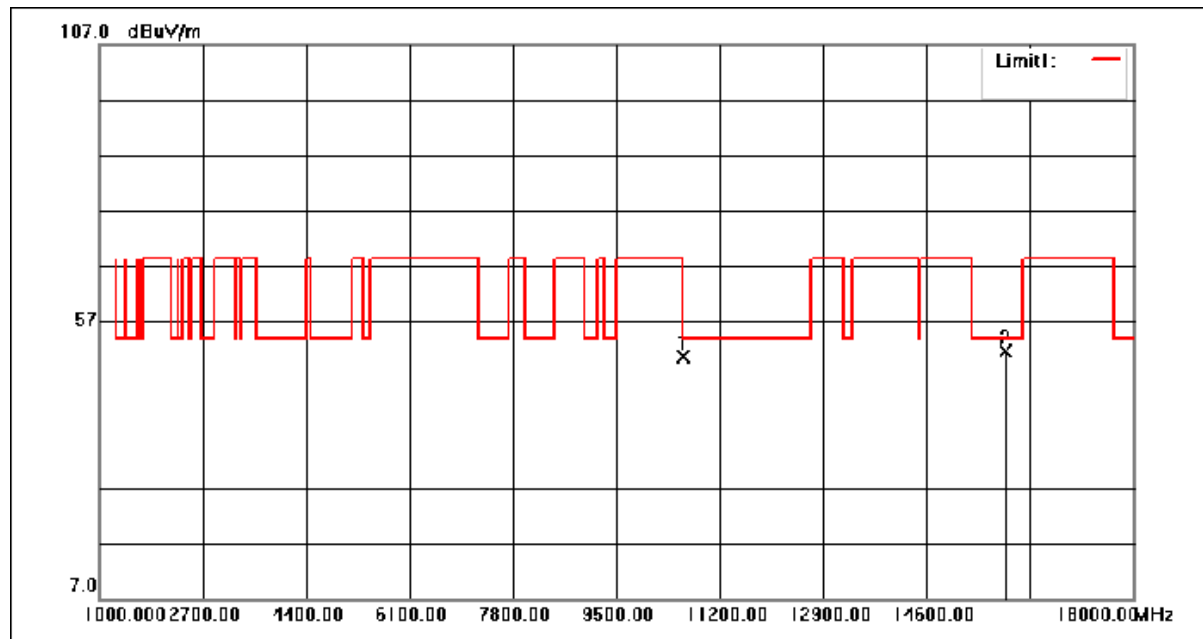
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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	50.18	0.46	50.64	54.00	-3.36	peak
2	15900.000	45.25	6.48	51.73	54.00	-2.27	peak



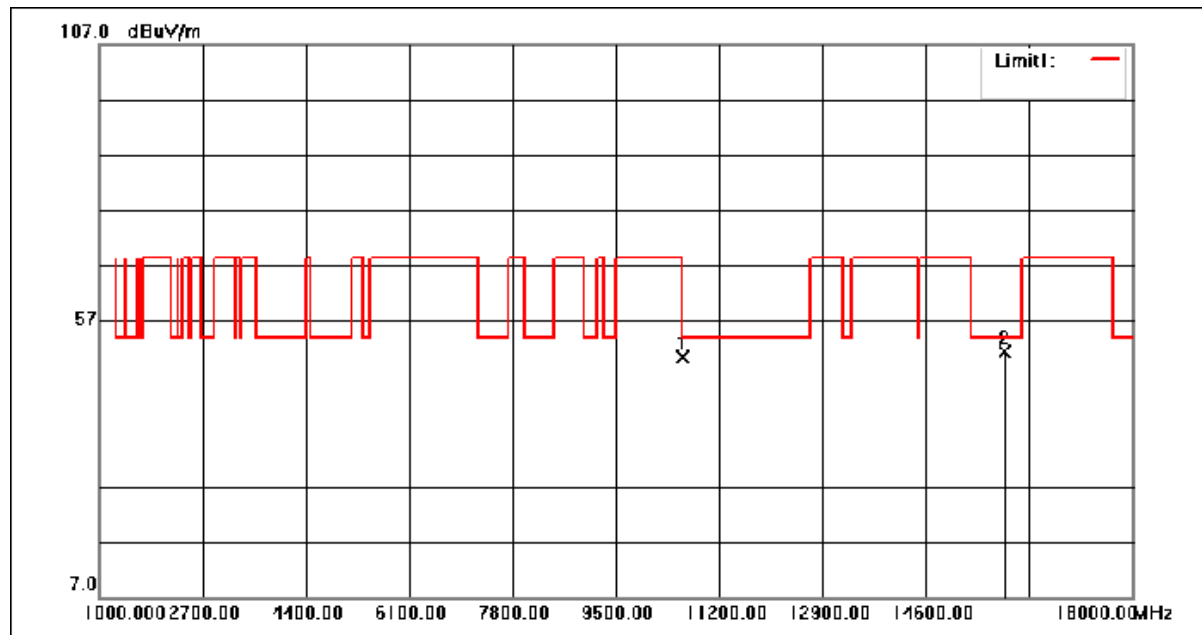
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	50.04	0.46	50.50	54.00	-3.50	peak
2	15900.000	44.84	6.48	51.32	54.00	-2.68	peak



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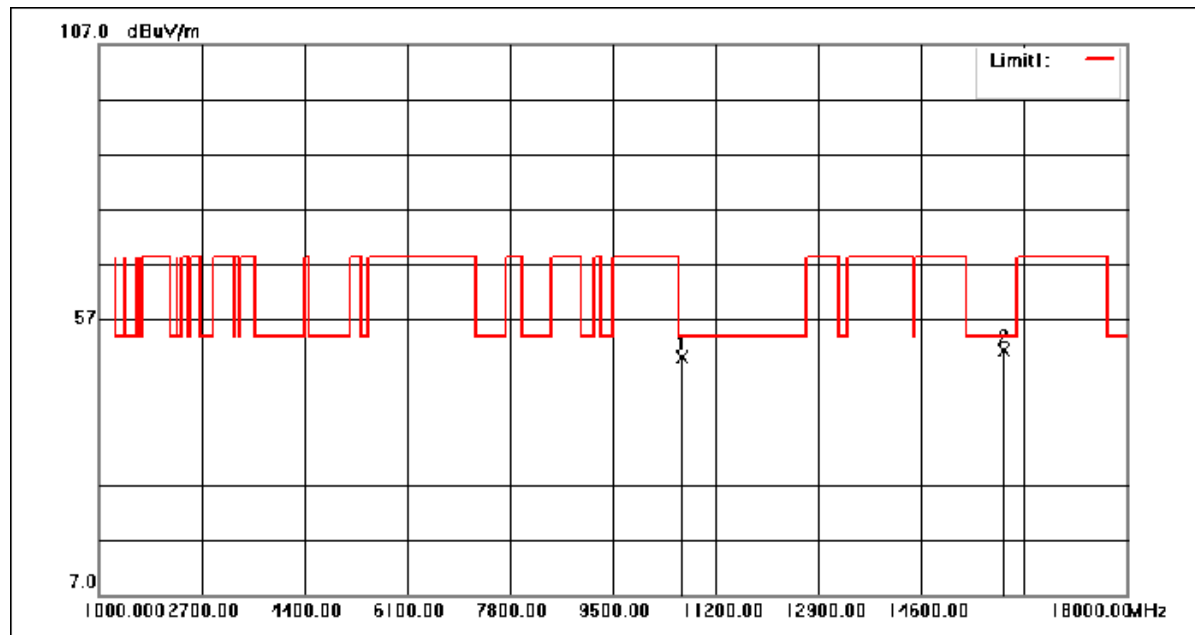
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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	49.59	0.46	50.05	54.00	-3.95	peak
2	15960.000	44.86	6.60	51.46	54.00	-2.54	peak



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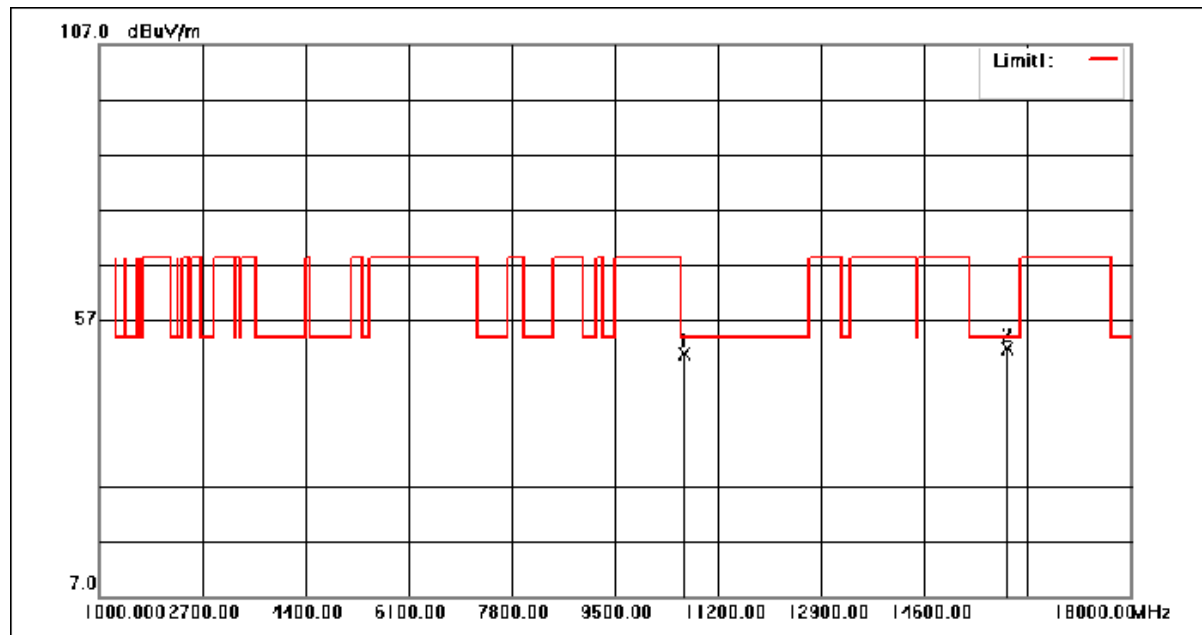
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	50.38	0.46	50.84	54.00	-3.16	peak
2	15960.000	45.16	6.60	51.76	54.00	-2.24	peak



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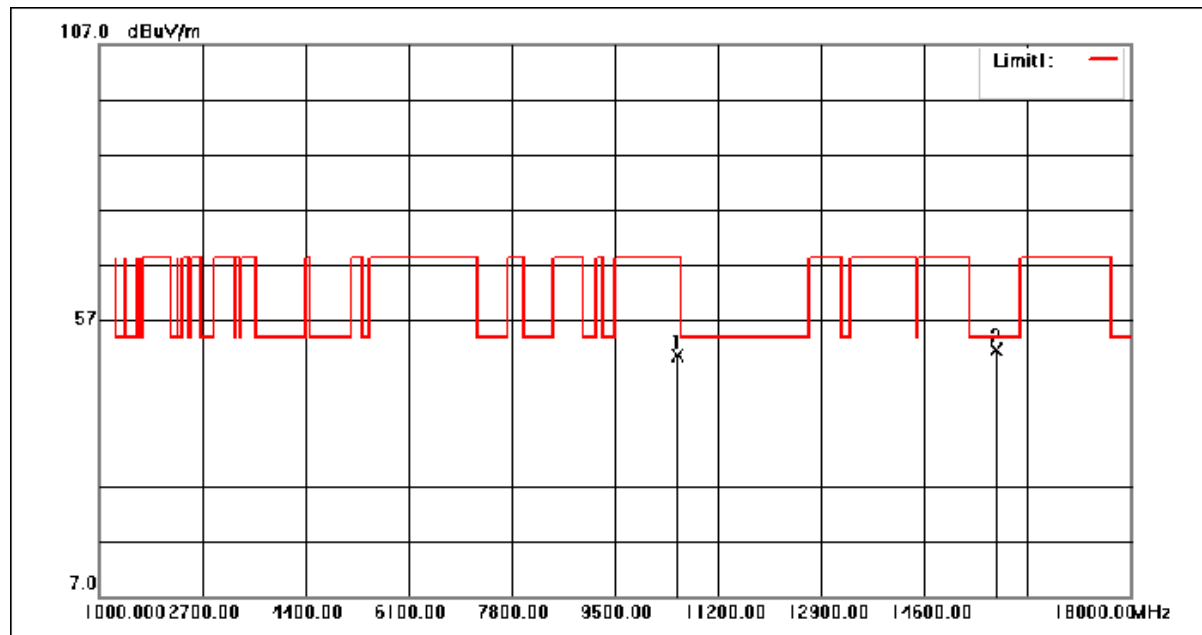
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	50.29	0.44	50.73	68.30	-17.57	peak
2	15780.000	45.35	6.23	51.58	54.00	-2.42	peak



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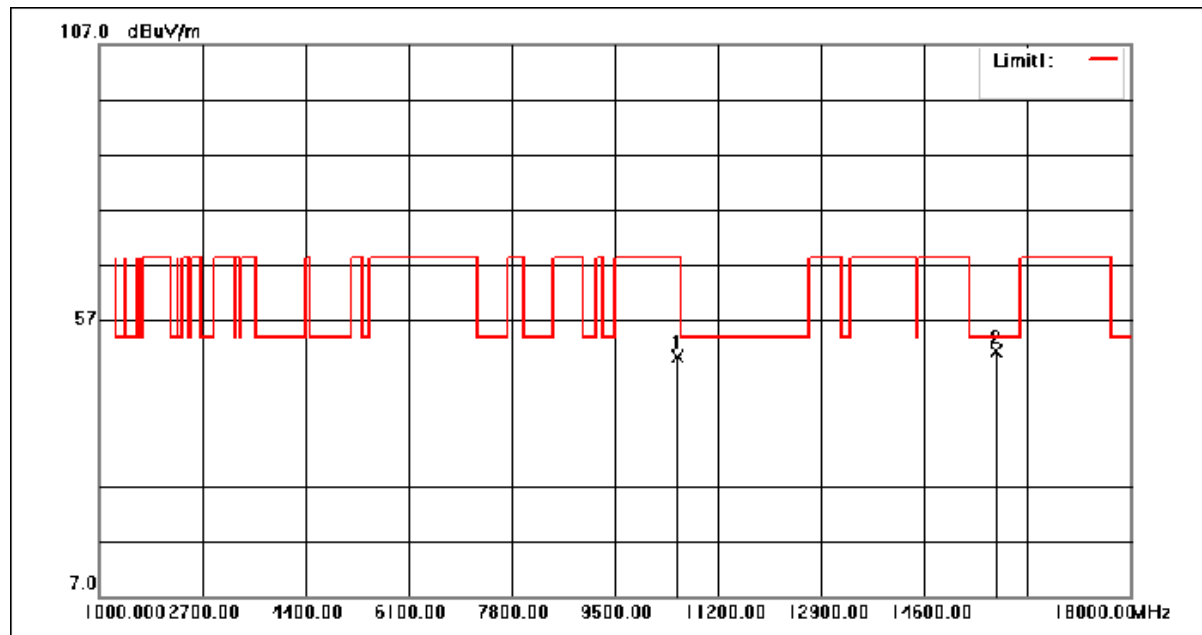
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	49.86	0.44	50.30	68.30	-18.00	peak
2	15780.000	45.22	6.23	51.45	54.00	-2.55	peak



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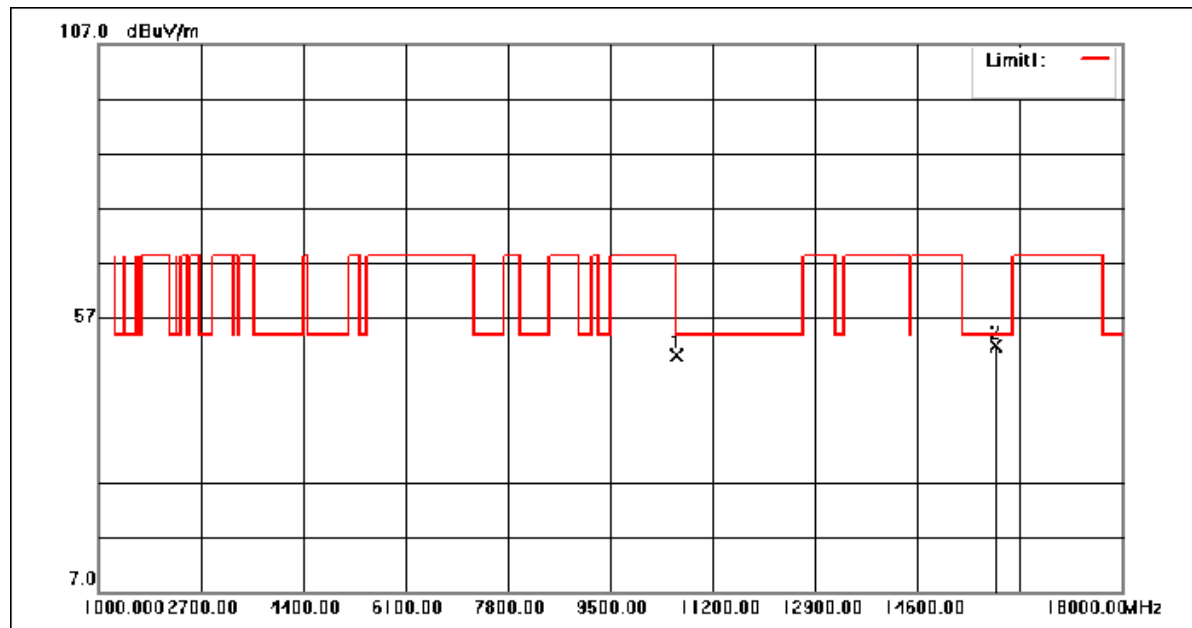
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	49.75	0.46	50.21	54.00	-3.79	peak
2	15900.000	45.45	6.48	51.93	54.00	-2.07	peak



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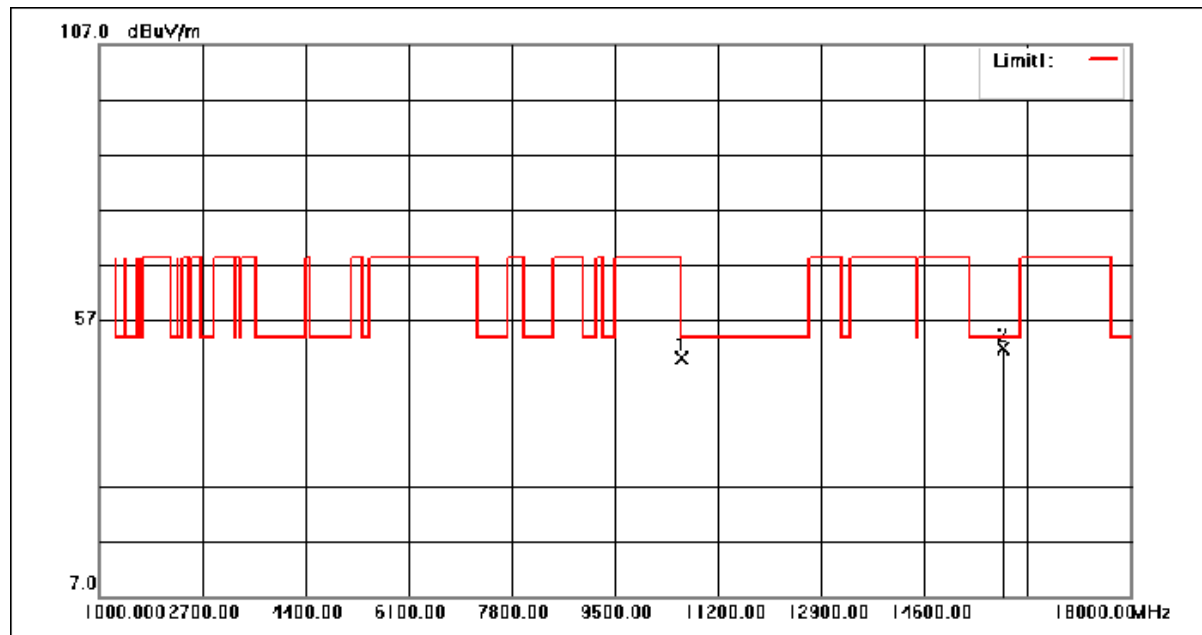
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	49.79	0.46	50.25	54.00	-3.75	peak
2	15900.000	45.40	6.48	51.88	54.00	-2.12	peak



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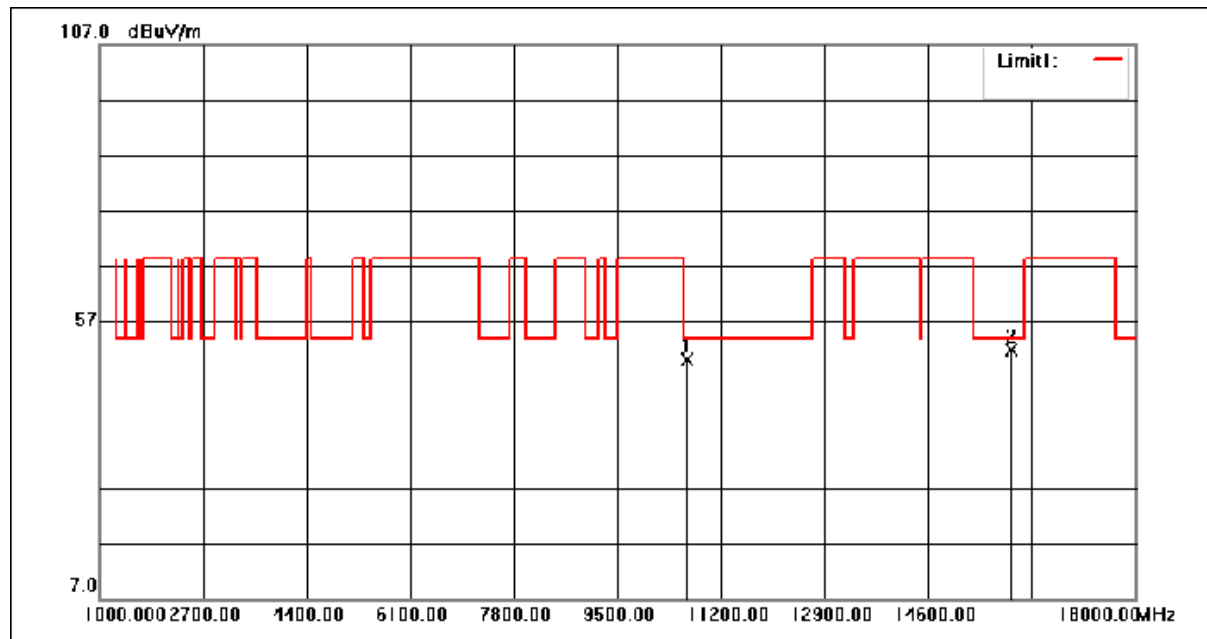
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	49.75	0.46	50.21	54.00	-3.79	peak
2	15960.000	45.29	6.60	51.89	54.00	-2.11	peak



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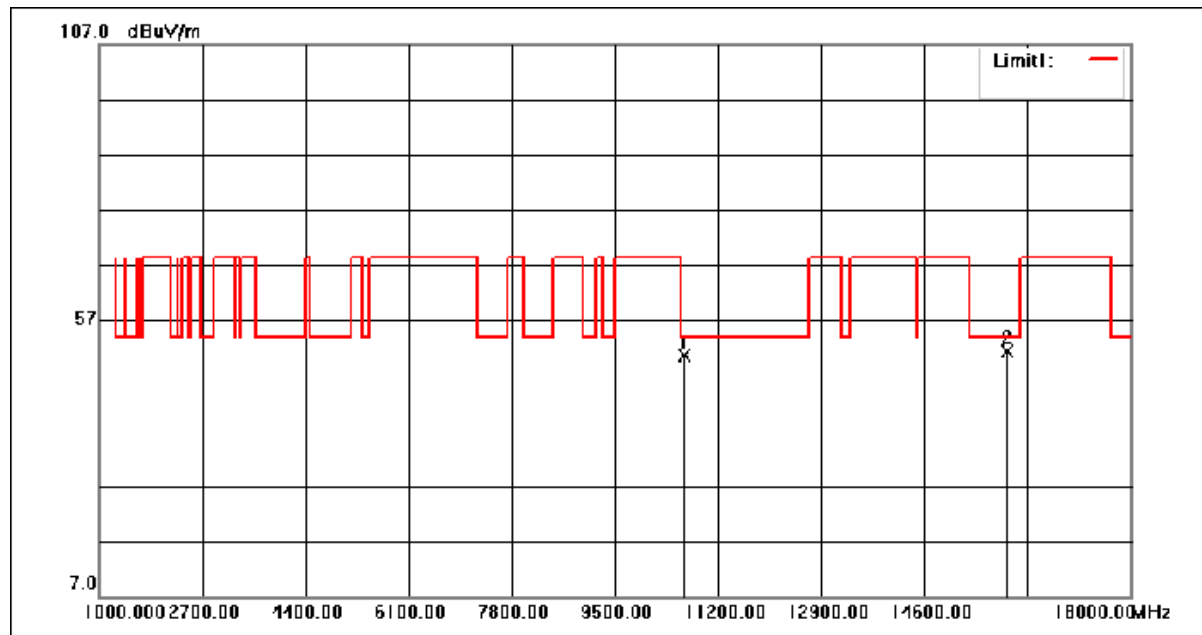
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	50.06	0.46	50.52	54.00	-3.48	peak
2	15960.000	44.76	6.60	51.36	54.00	-2.64	peak



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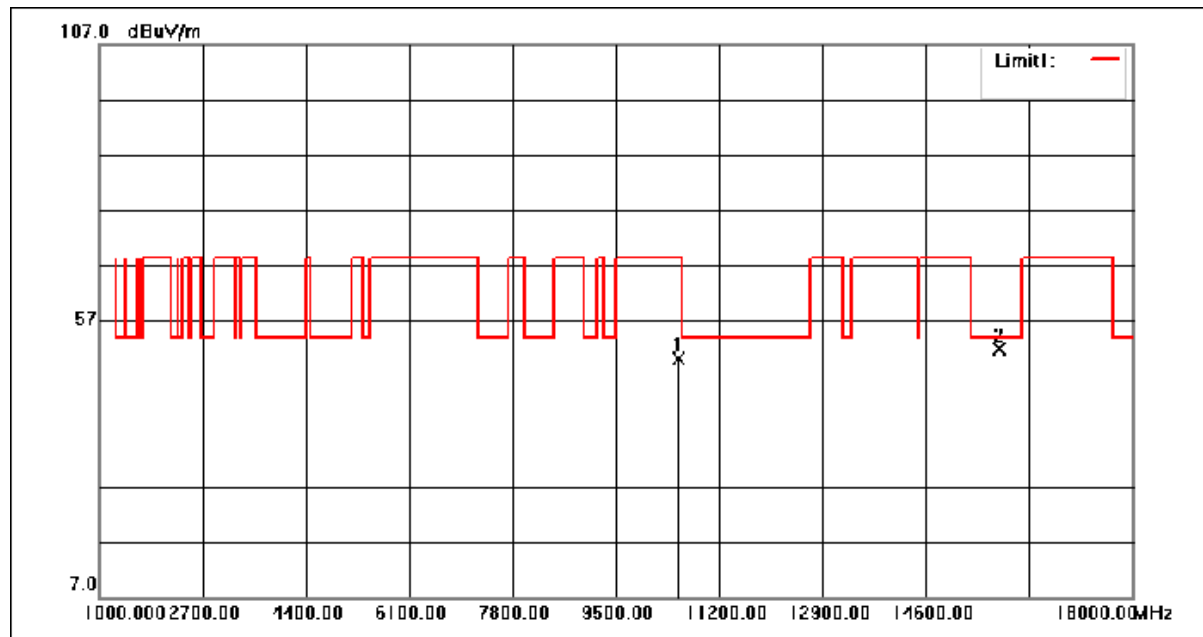
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	49.70	0.44	50.14	68.30	-18.16	peak
2	15810.000	45.50	6.29	51.79	54.00	-2.21	peak



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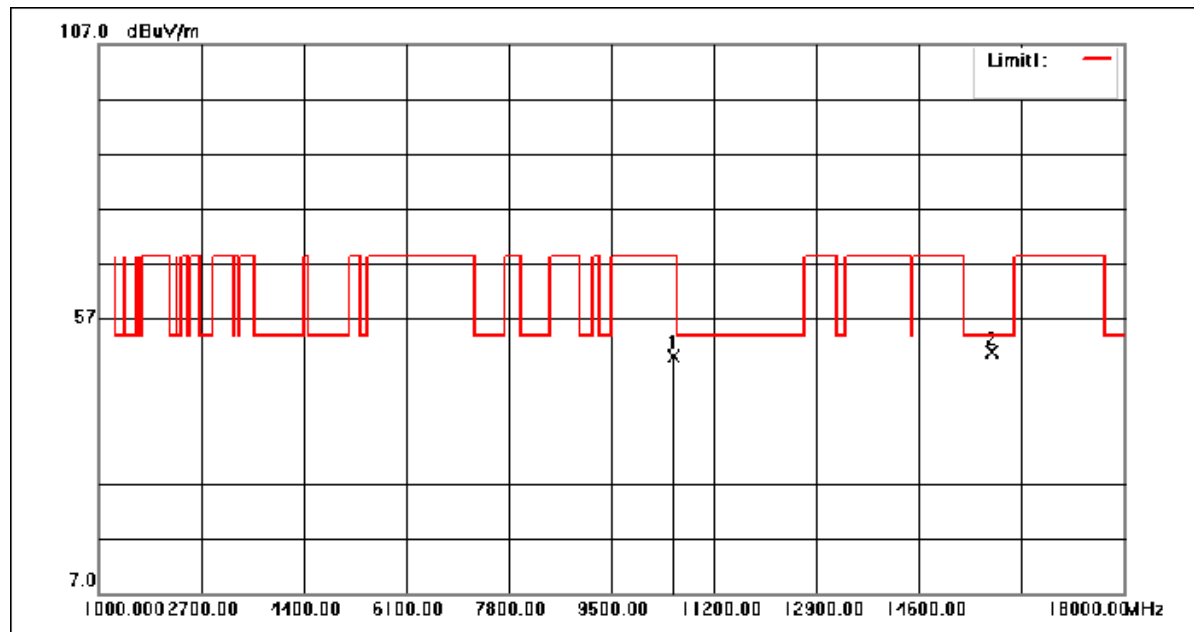
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	49.68	0.44	50.12	68.30	-18.18	peak
2	15810.000	44.71	6.29	51.00	54.00	-3.00	peak



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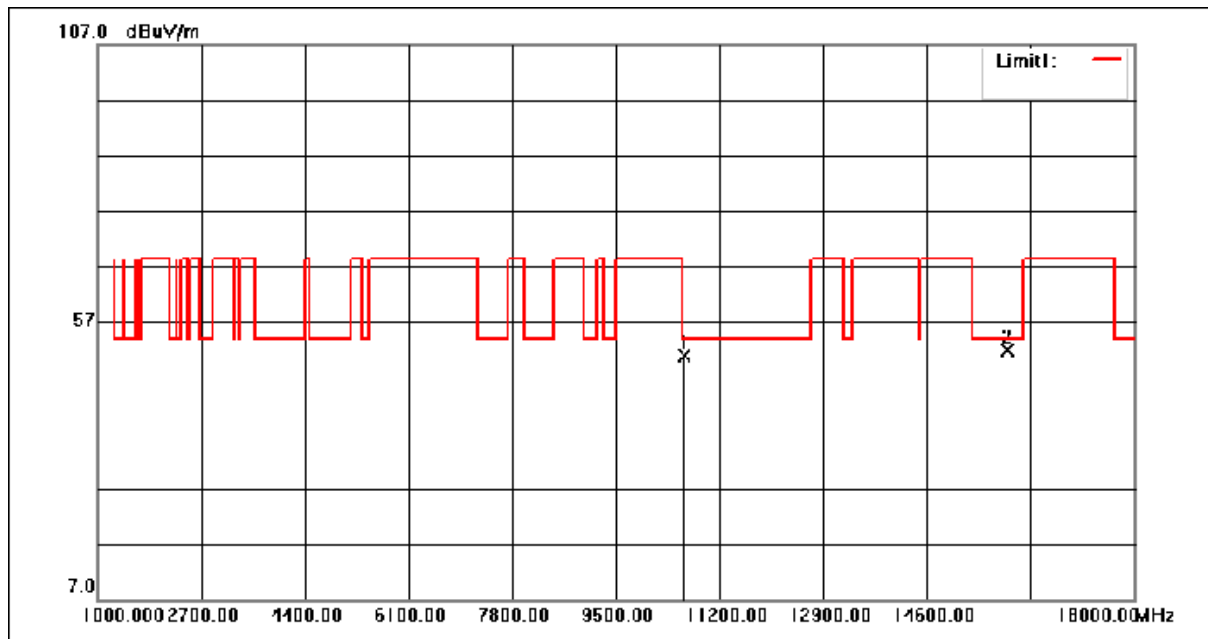
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	50.52	0.46	50.98	54.00	-3.02	peak
2	15930.000	45.22	6.54	51.76	54.00	-2.24	peak



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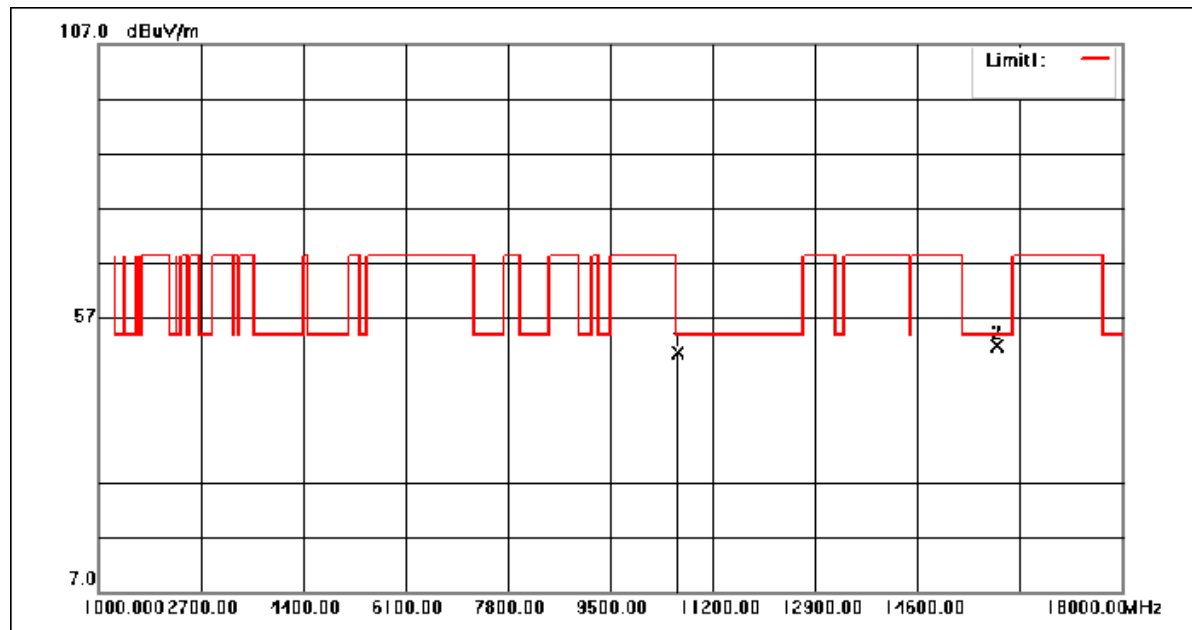
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	50.11	0.46	50.57	54.00	-3.43	peak
2	15930.000	45.40	6.54	51.94	54.00	-2.06	peak



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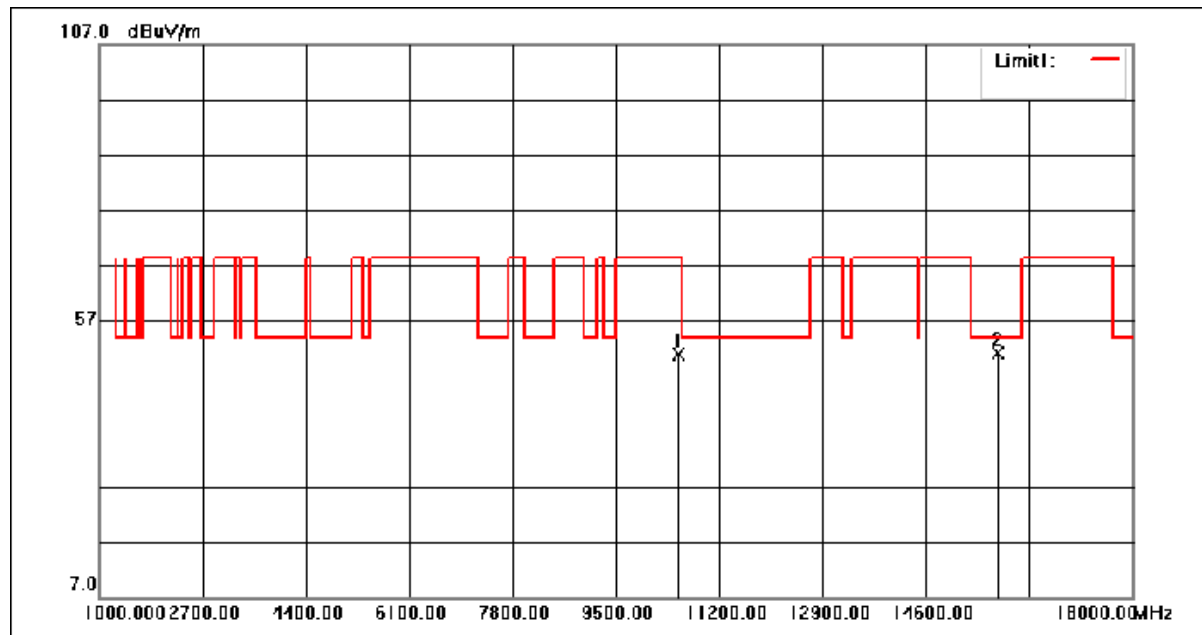
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	50.54	0.44	50.98	68.30	-17.32	peak
2	15780.000	44.86	6.23	51.09	54.00	-2.91	peak



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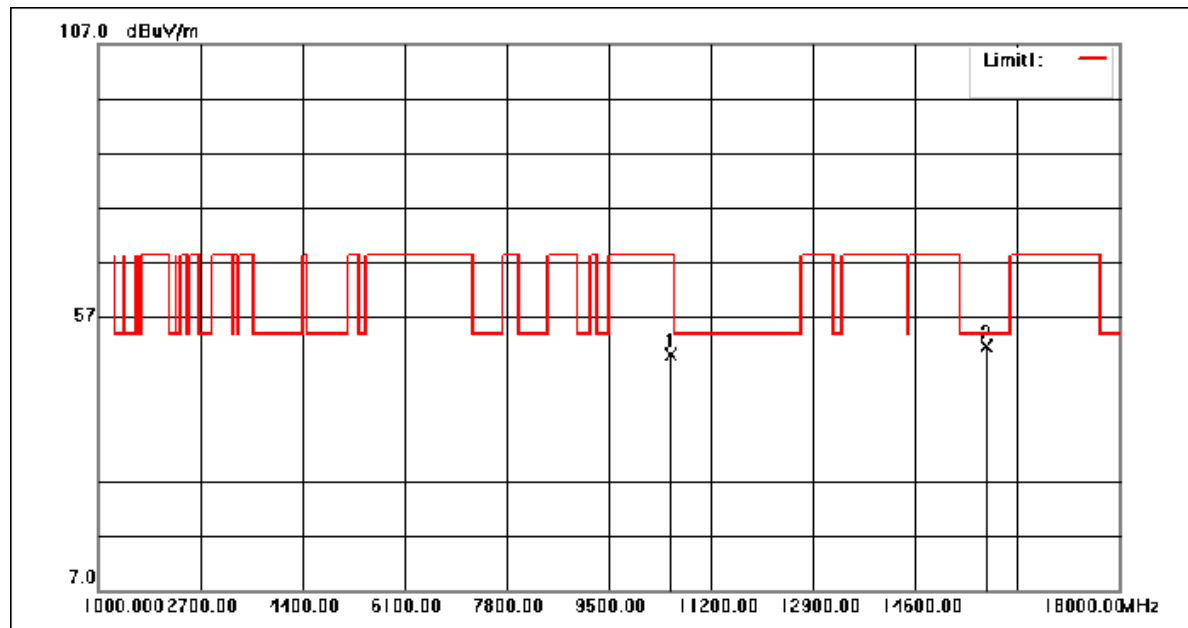
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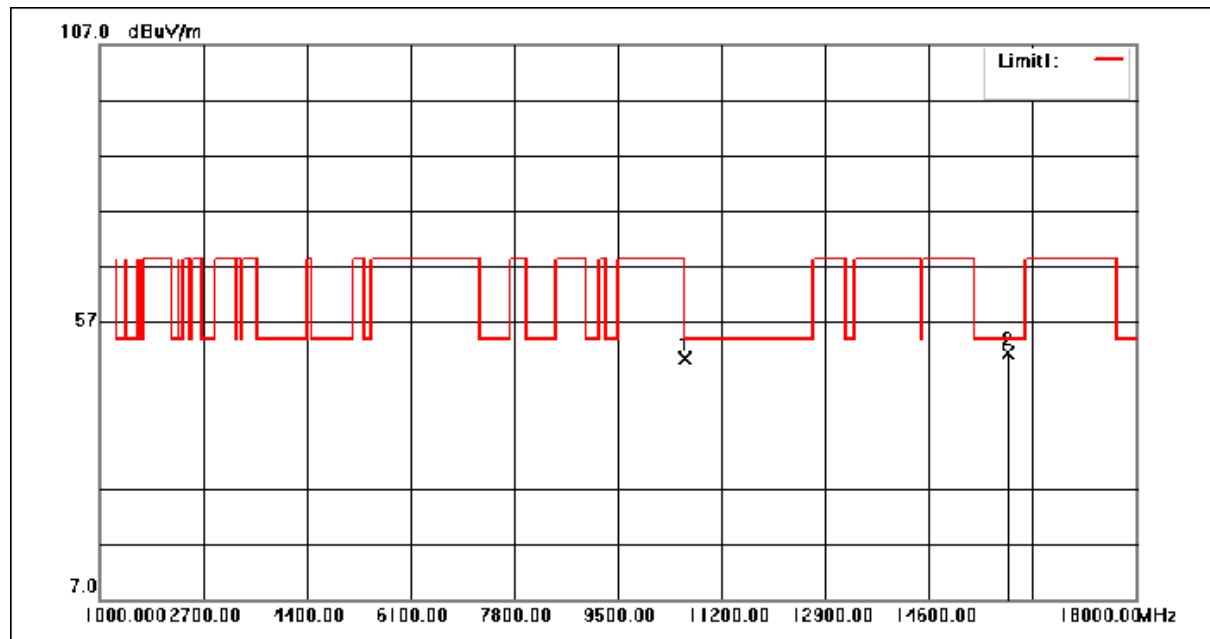
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	49.68	0.44	50.12	68.30	-18.18	peak
2	15780.000	45.31	6.23	51.54	54.00	-2.46	peak

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	10600.000	49.80	0.46	50.26	54.00	-3.74	peak
2	15900.000	44.93	6.48	51.41	54.00	-2.59	peak



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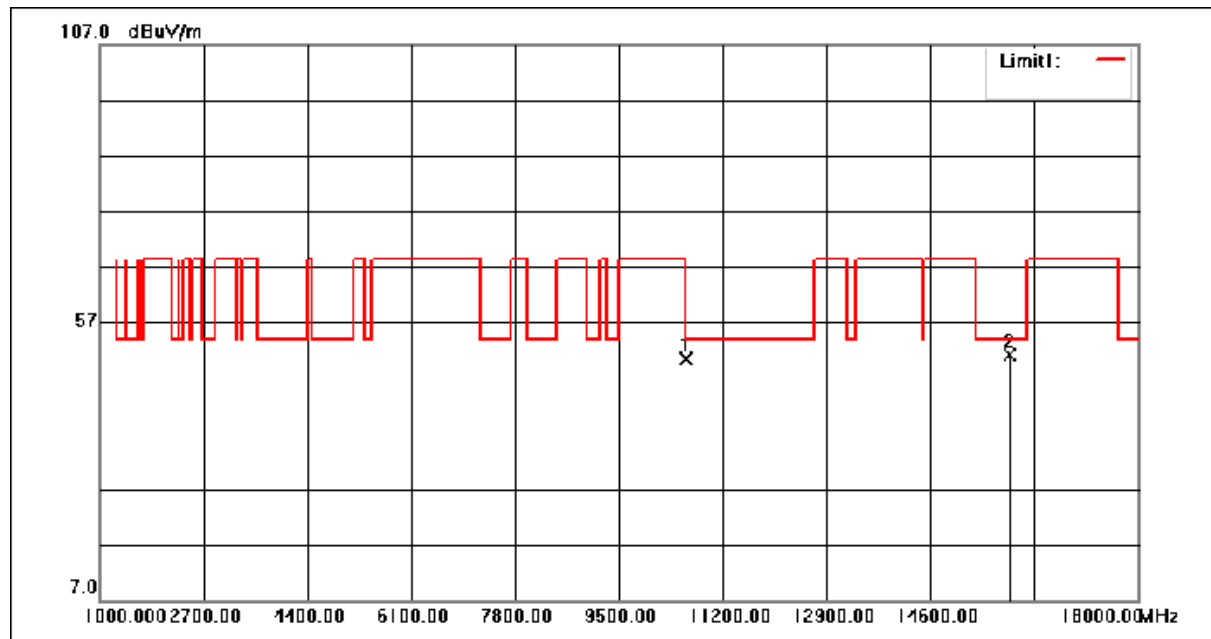
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	49.93	0.46	50.39	54.00	-3.61	peak
2	15900.000	44.74	6.48	51.22	54.00	-2.78	peak



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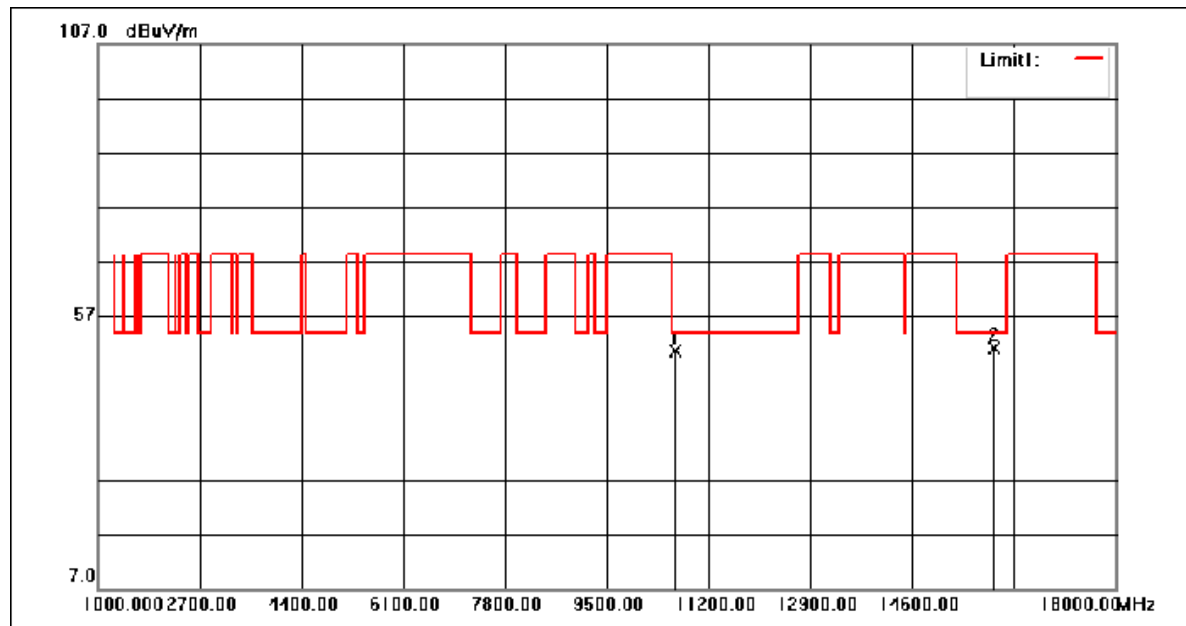
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	50.28	0.46	50.74	54.00	-3.26	peak
2	15960.000	44.60	6.60	51.20	54.00	-2.80	peak



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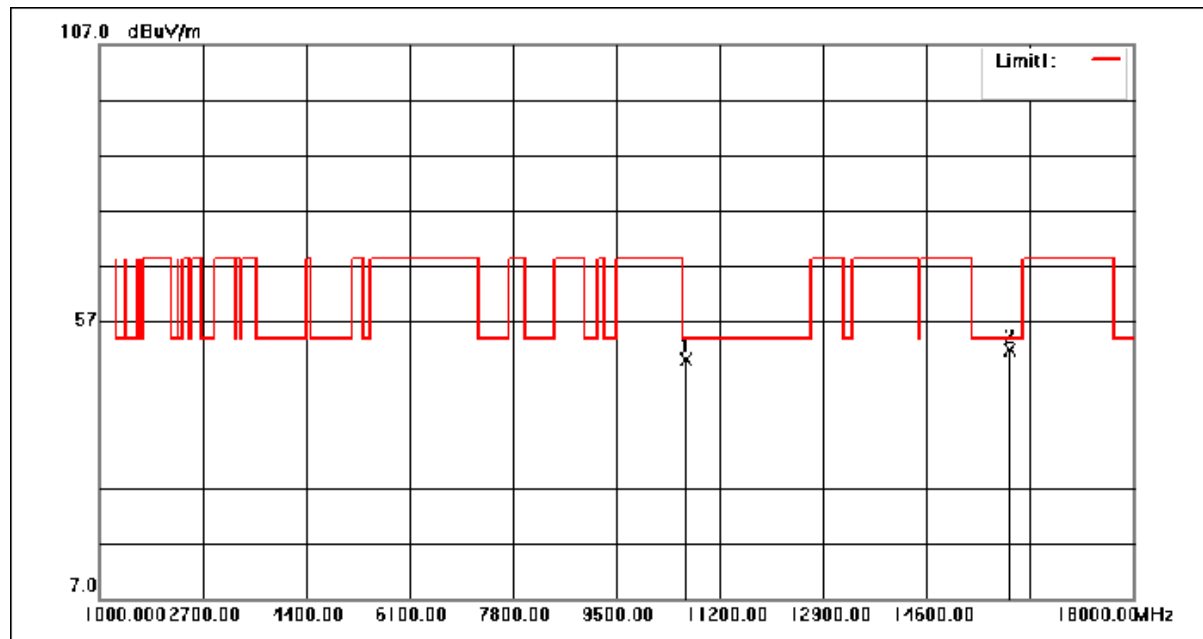
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	49.77	0.46	50.23	54.00	-3.77	peak
2	15960.000	45.25	6.60	51.85	54.00	-2.15	peak



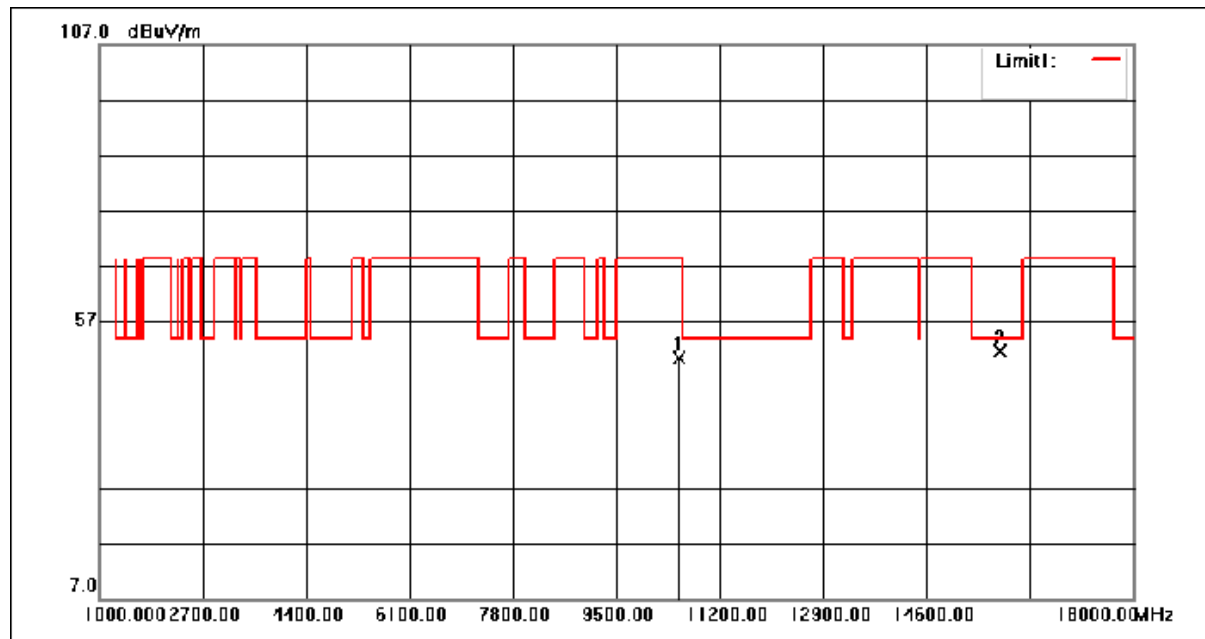
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	49.84	0.44	50.28	68.30	-18.02	peak
2	15810.000	45.22	6.29	51.51	54.00	-2.49	peak



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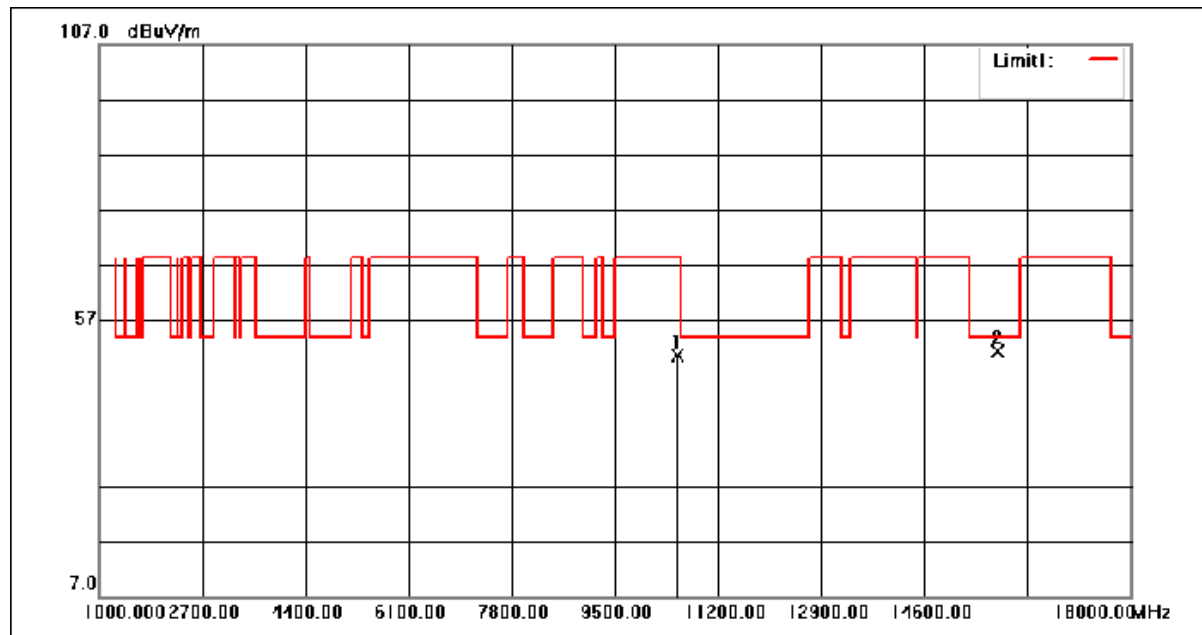
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	50.18	0.44	50.62	68.30	-17.68	peak
2	15810.000	45.09	6.29	51.38	54.00	-2.62	peak



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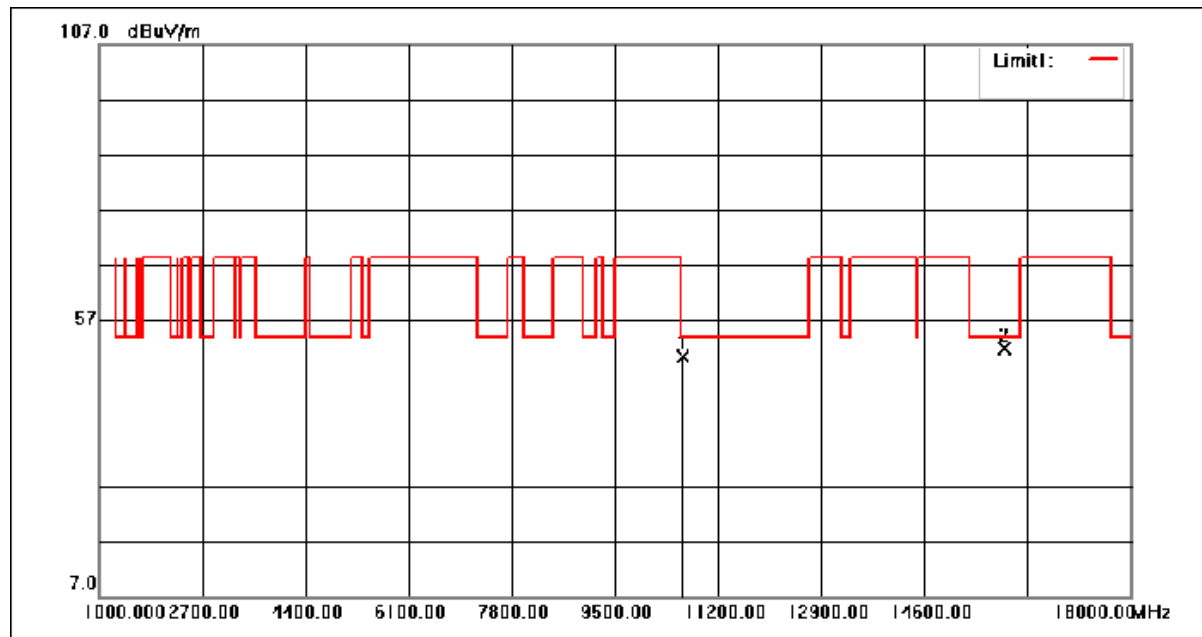
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	49.97	0.46	50.43	54.00	-3.57	peak
2	15930.000	45.38	6.54	51.92	54.00	-2.08	peak



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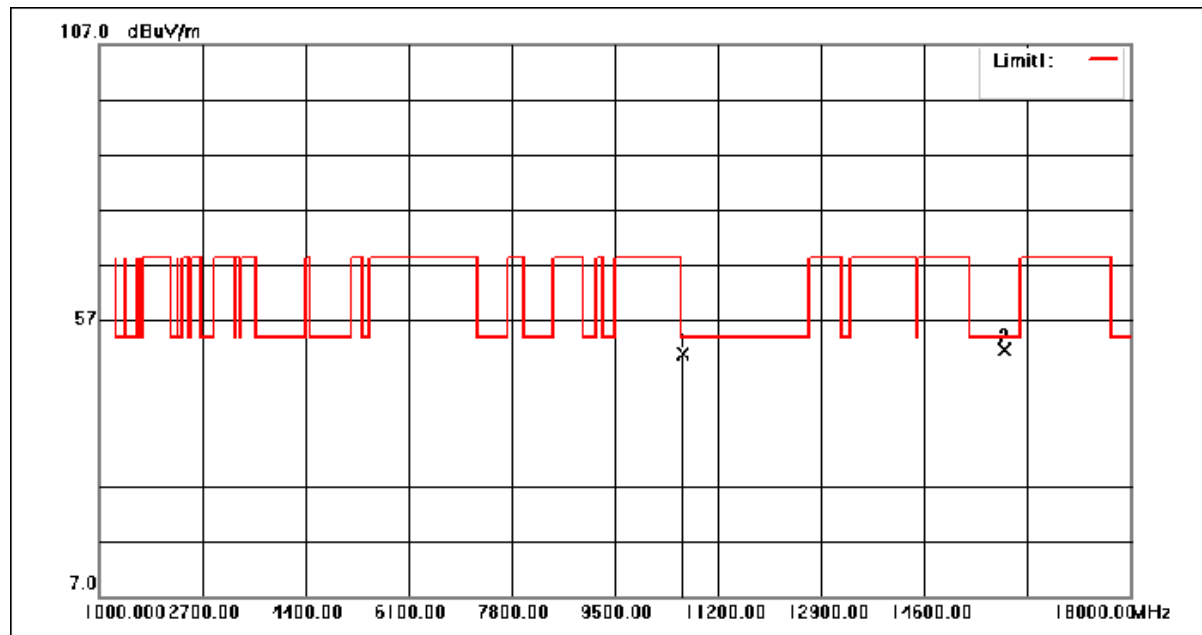
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	50.32	0.46	50.78	54.00	-3.22	peak
2	15930.000	44.98	6.54	51.52	54.00	-2.48	peak



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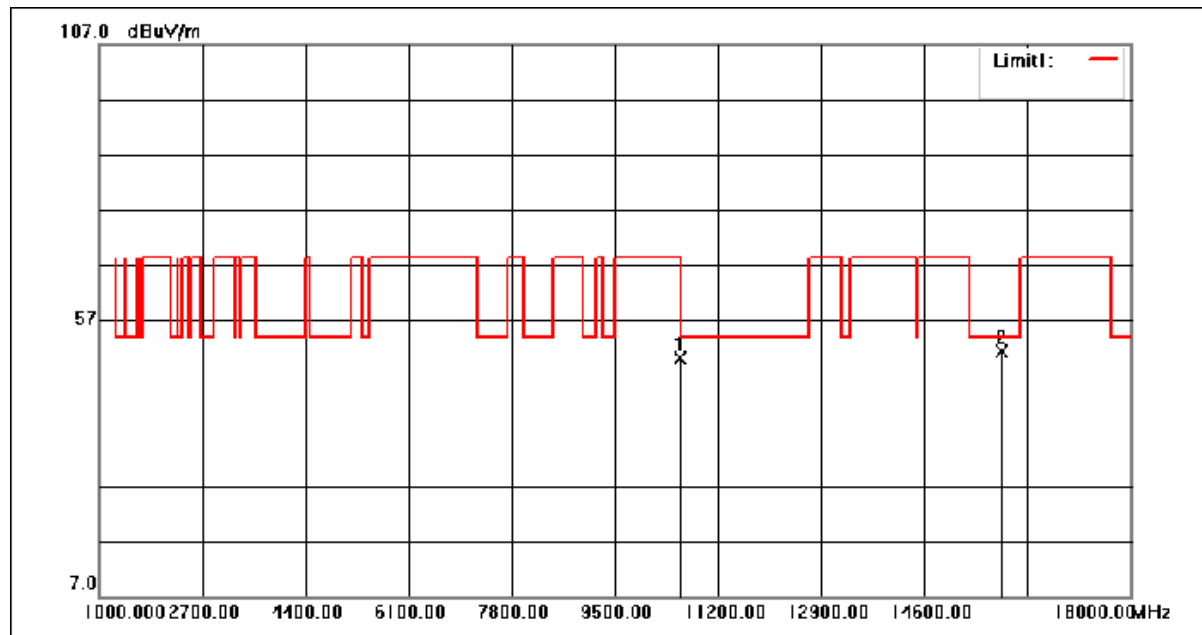
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	49.61	0.46	50.07	68.30	-18.23	peak
2	15870.000	44.99	6.41	51.40	54.00	-2.60	peak



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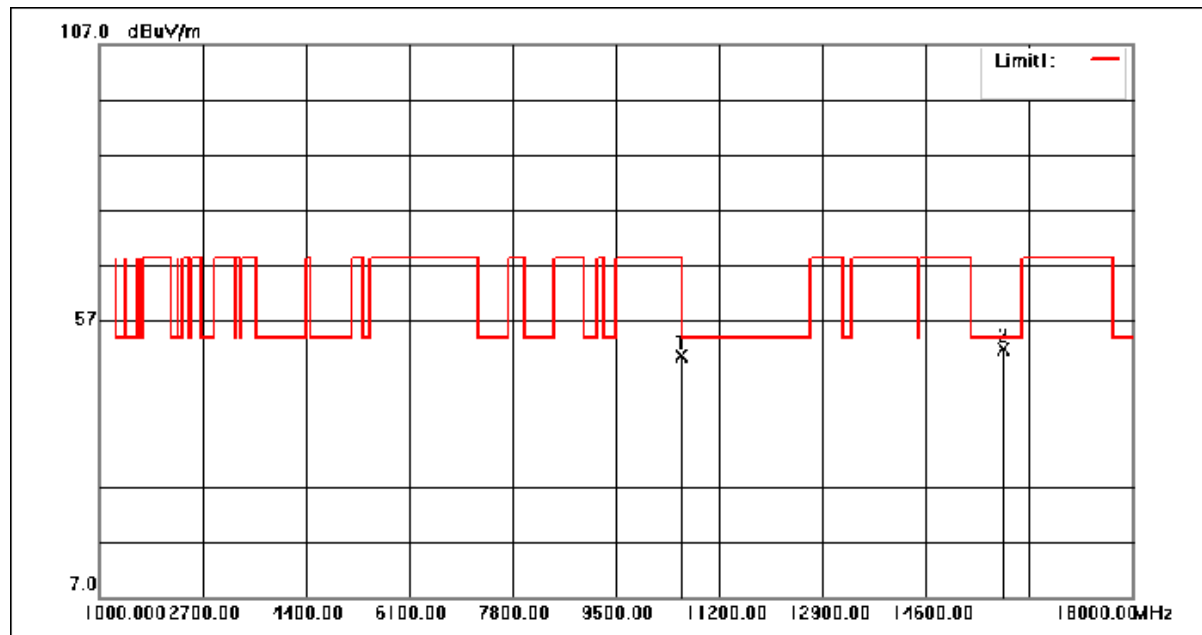
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	50.10	0.46	50.56	68.30	-17.74	peak
2	15870.000	45.58	6.41	51.99	54.00	-2.01	peak



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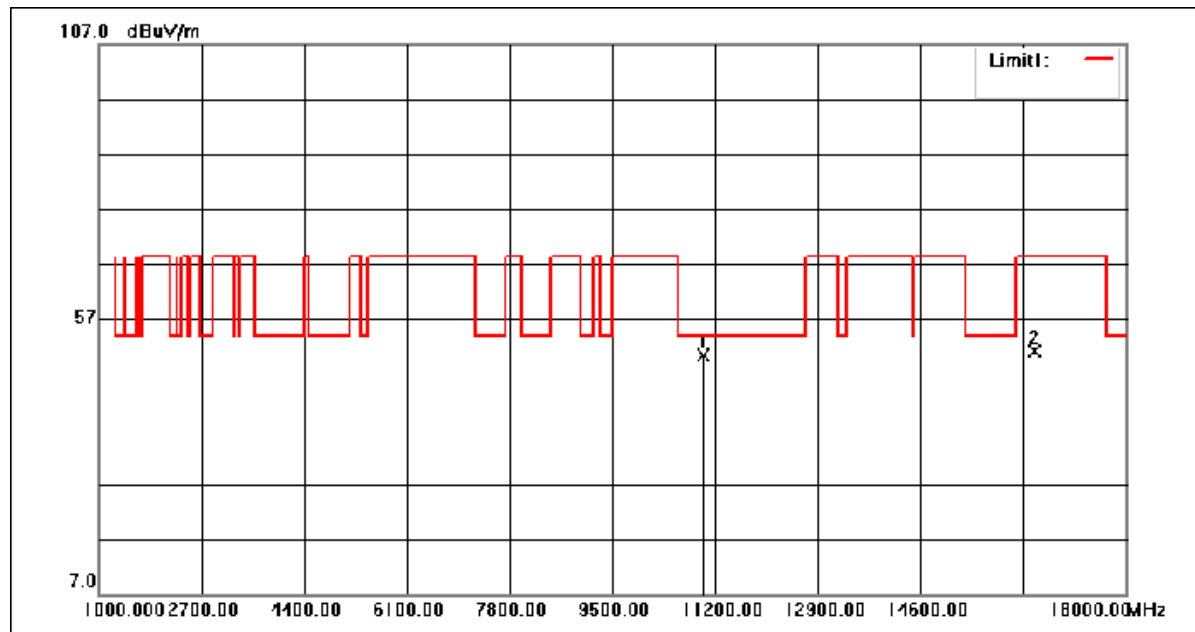
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	49.95	0.54	50.49	54.00	-3.51	peak
2	16500.000	42.64	8.43	51.07	68.30	-17.23	peak



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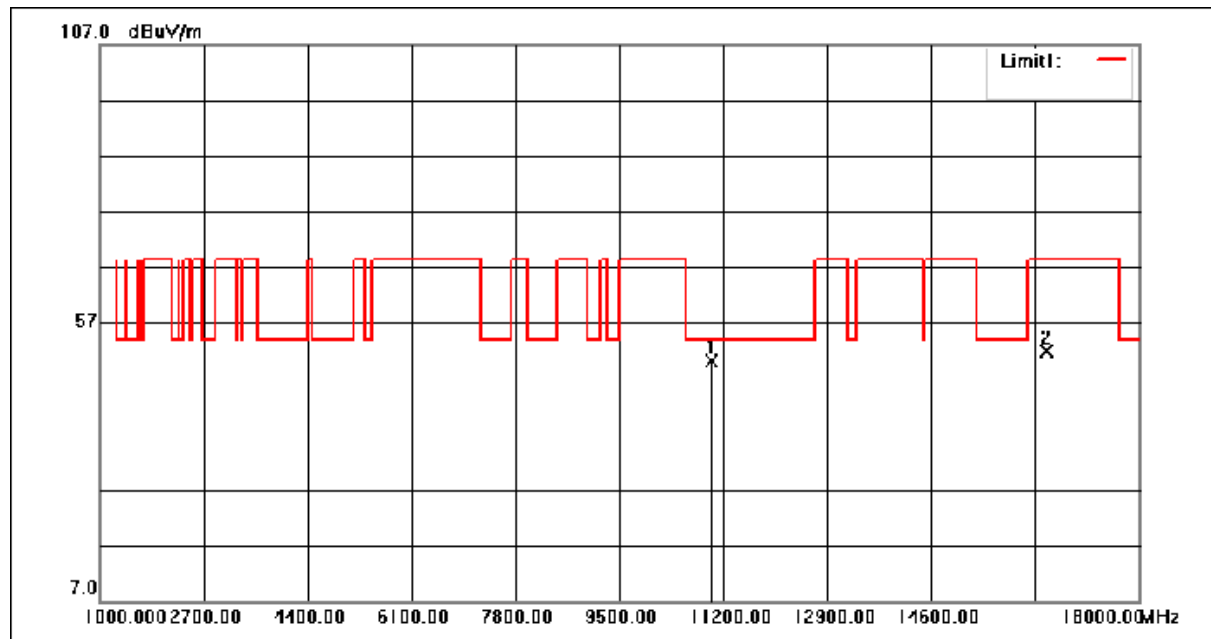
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	49.67	0.54	50.21	54.00	-3.79	peak
2	16500.000	43.48	8.43	51.91	68.30	-16.39	peak



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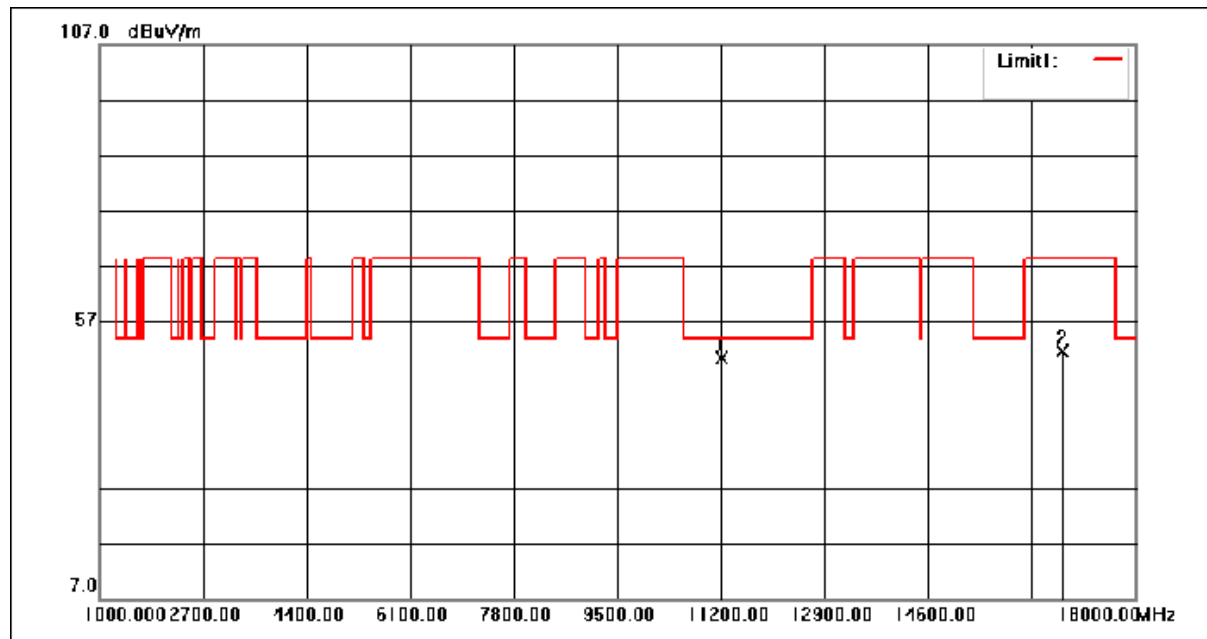
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	49.63	0.71	50.34	54.00	-3.66	peak
2	16800.000	42.70	8.89	51.59	68.30	-16.71	peak



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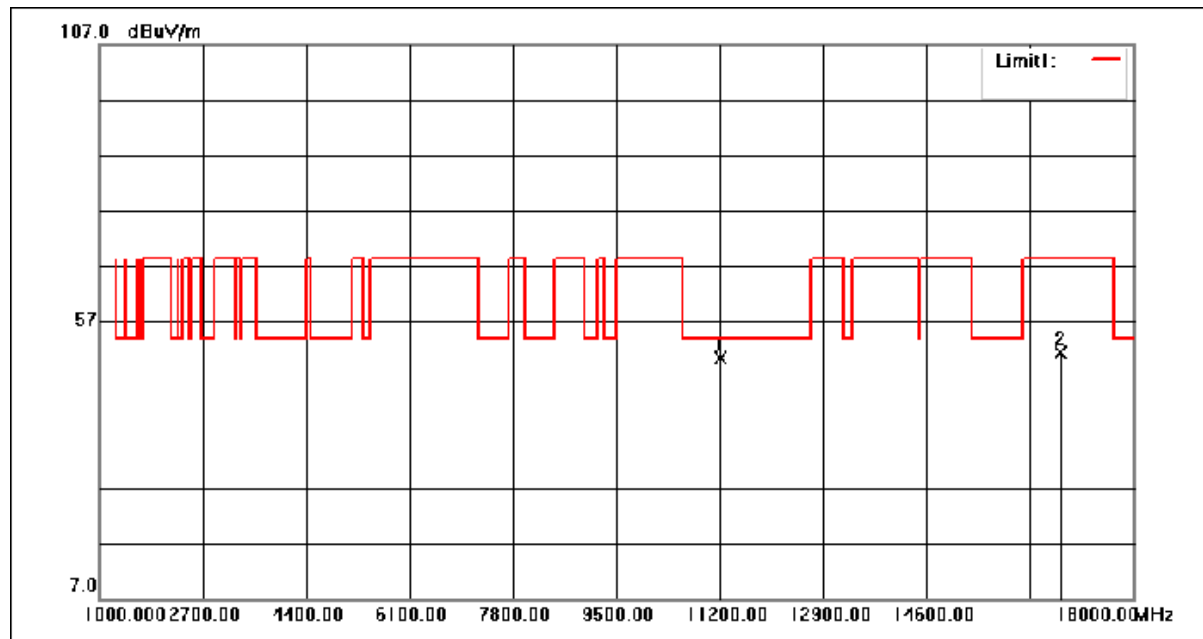
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	49.69	0.71	50.40	54.00	-3.60	peak
2	16800.000	42.43	8.89	51.32	68.30	-16.98	peak



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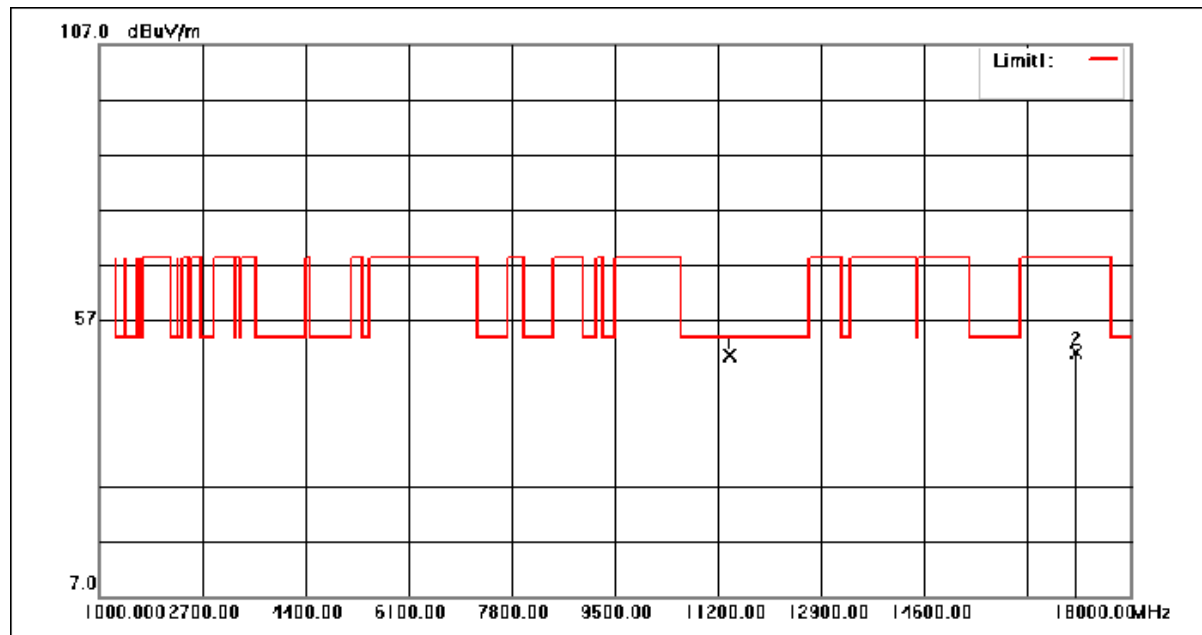
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	49.71	0.87	50.58	54.00	-3.42	peak
2	17100.000	41.97	9.13	51.10	68.30	-17.20	peak



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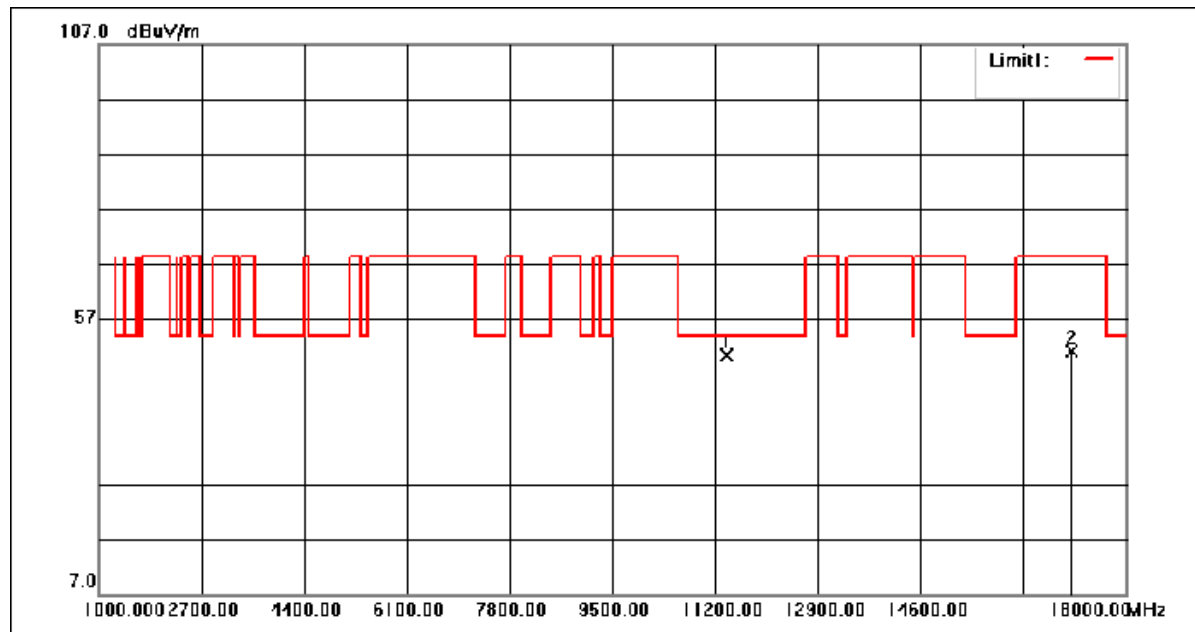
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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	49.50	0.87	50.37	54.00	-3.63	peak
2	17100.000	41.92	9.13	51.05	68.30	-17.25	peak



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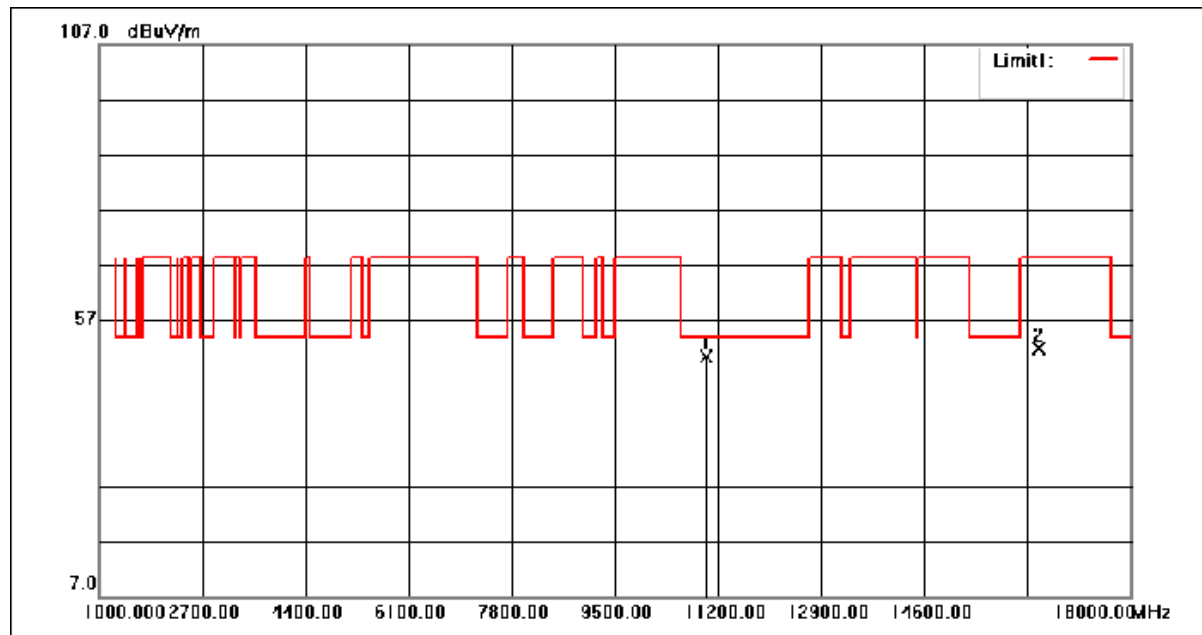
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	49.81	0.54	50.35	54.00	-3.65	peak
2	16500.000	43.43	8.43	51.86	68.30	-16.44	peak



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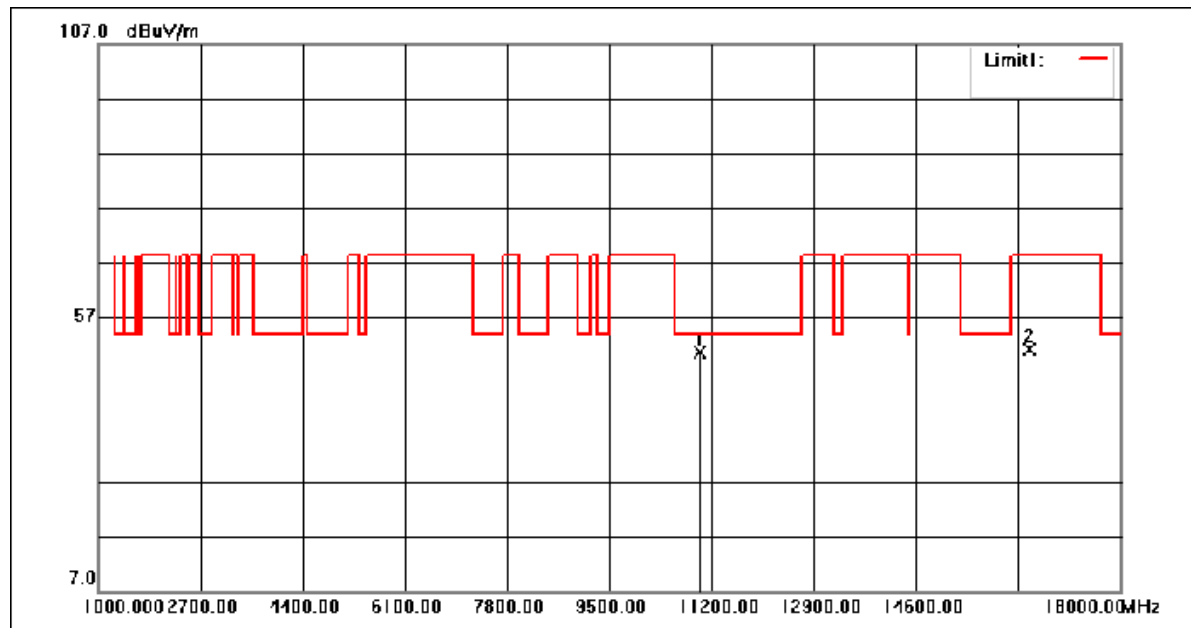
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	50.19	0.54	50.73	54.00	-3.27	peak
2	16500.000	42.78	8.43	51.21	68.30	-17.09	peak



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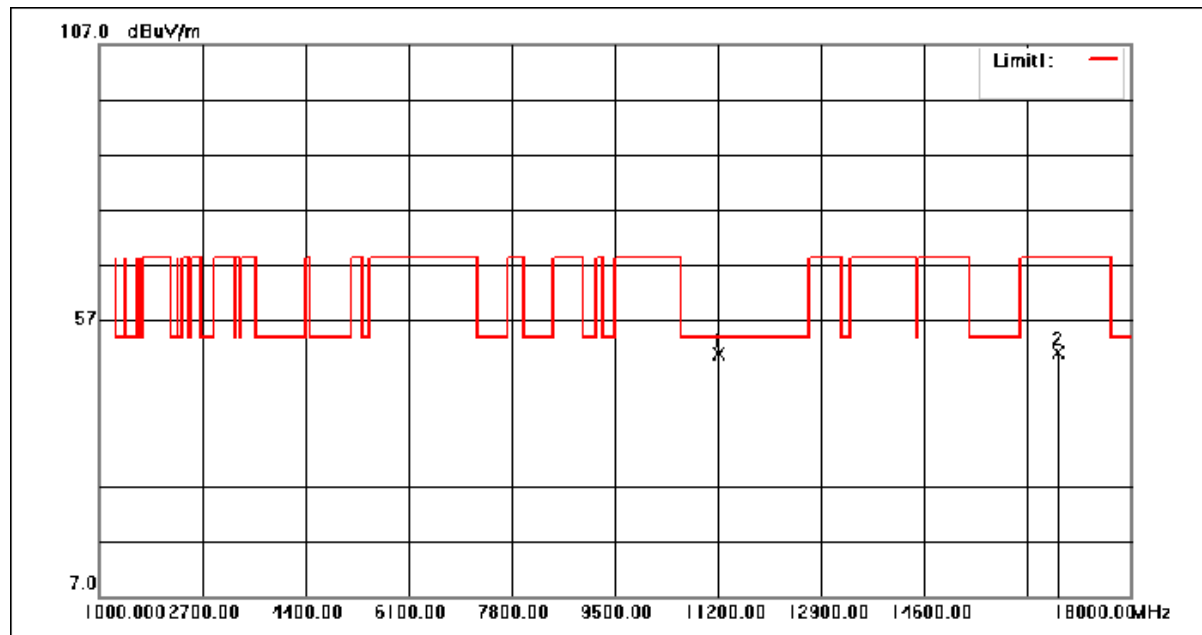
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	50.13	0.71	50.84	54.00	-3.16	peak
2	16800.000	42.13	8.89	51.02	68.30	-17.28	peak



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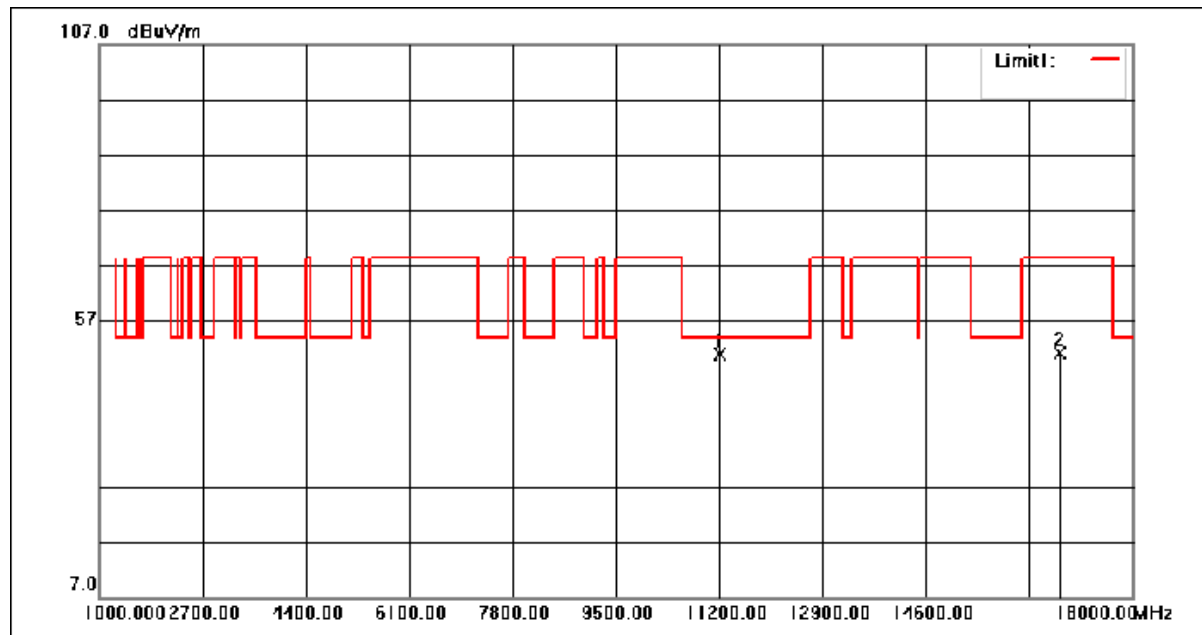
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	50.24	0.71	50.95	54.00	-3.05	peak
2	16800.000	42.34	8.89	51.23	68.30	-17.07	peak



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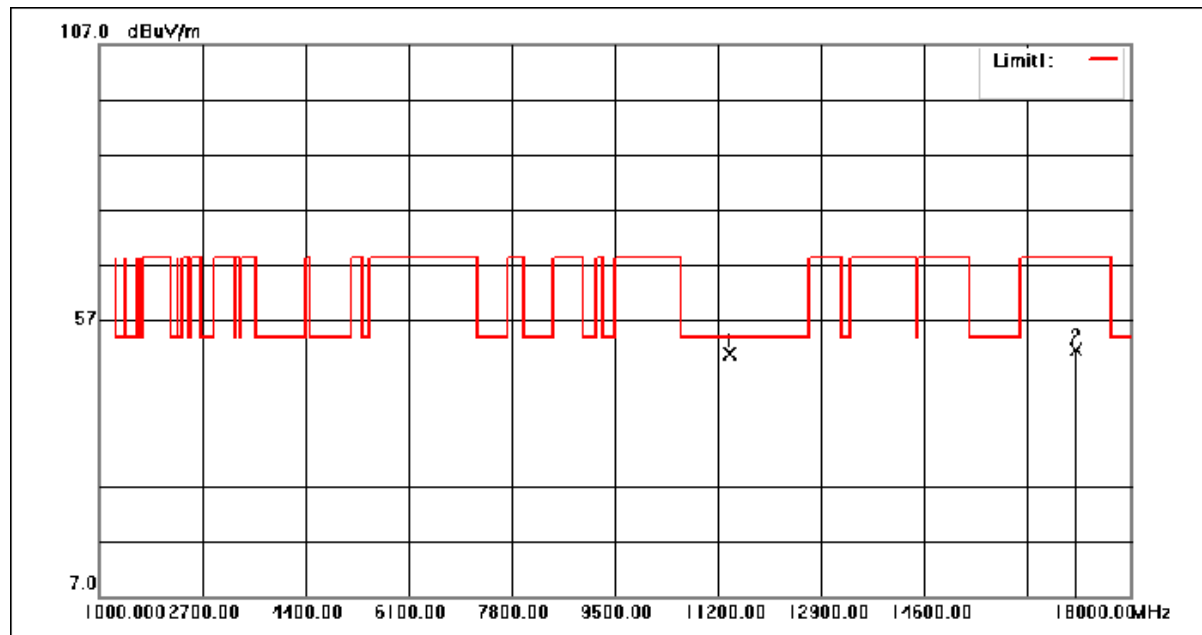
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	50.01	0.87	50.88	54.00	-3.12	peak
2	17100.000	42.40	9.13	51.53	68.30	-16.77	peak



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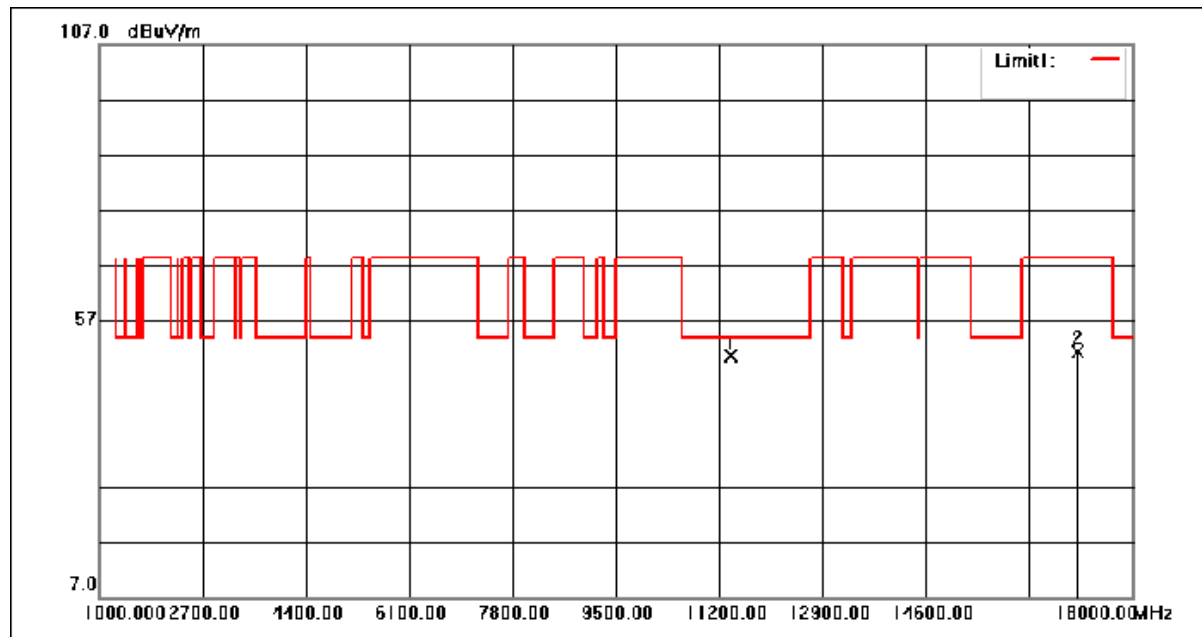
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	49.65	0.87	50.52	54.00	-3.48	peak
2	17100.000	42.13	9.13	51.26	68.30	-17.04	peak



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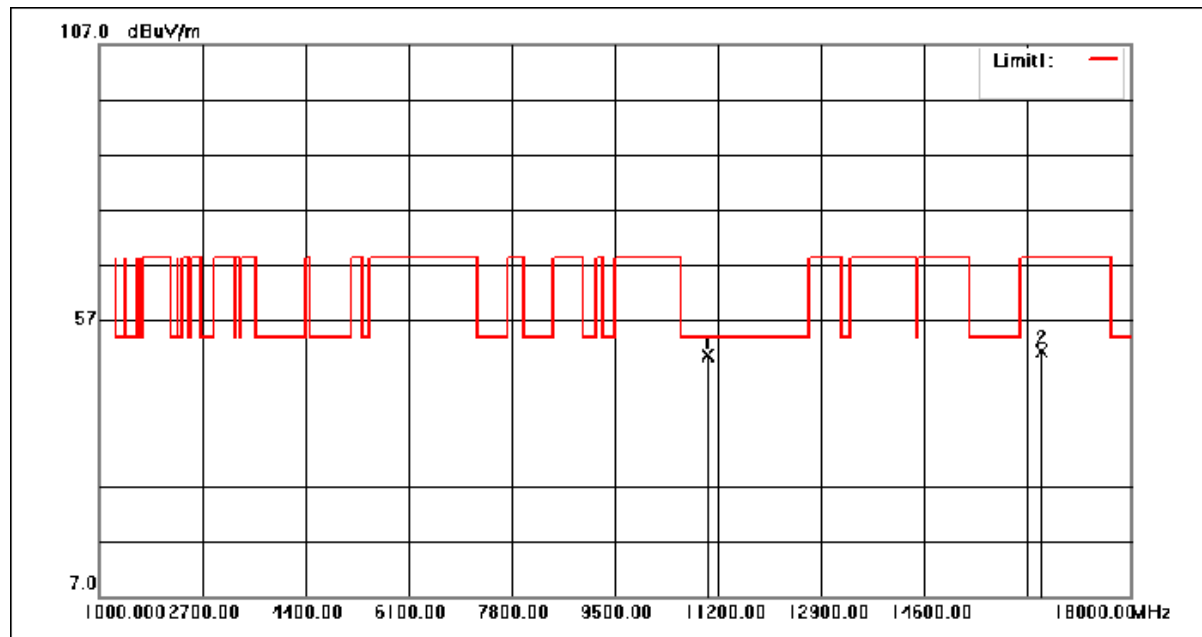
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	50.13	0.56	50.69	54.00	-3.31	peak
2	16530.000	42.88	8.47	51.35	68.30	-16.95	peak



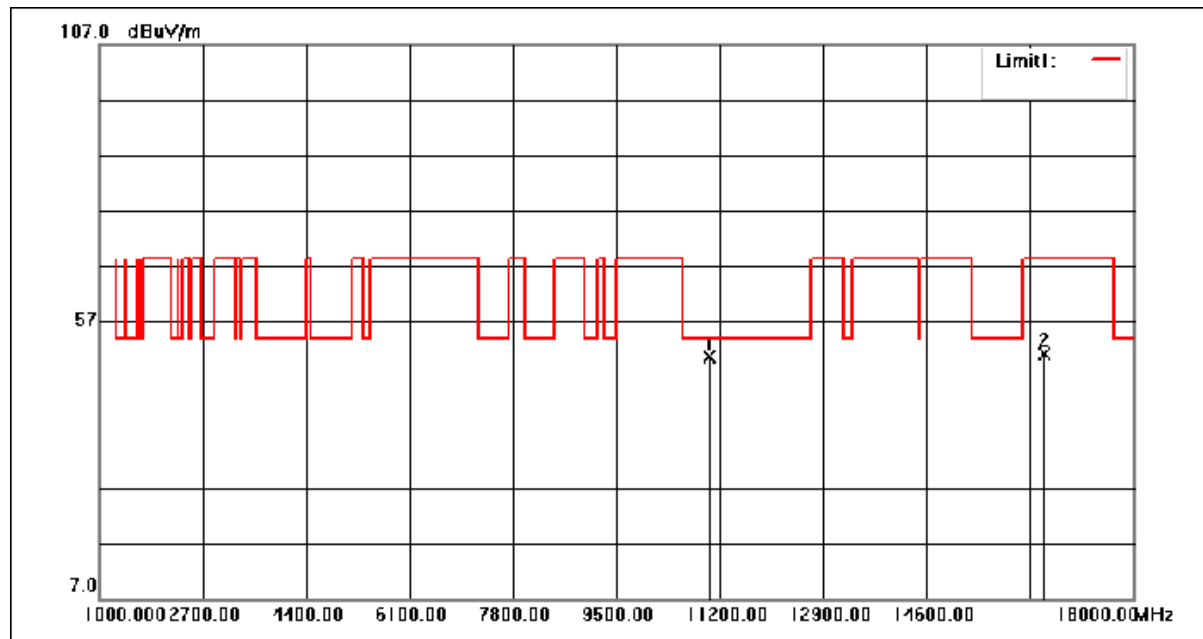
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	50.11	0.56	50.67	54.00	-3.33	peak
2	16530.000	42.68	8.47	51.15	68.30	-17.15	peak



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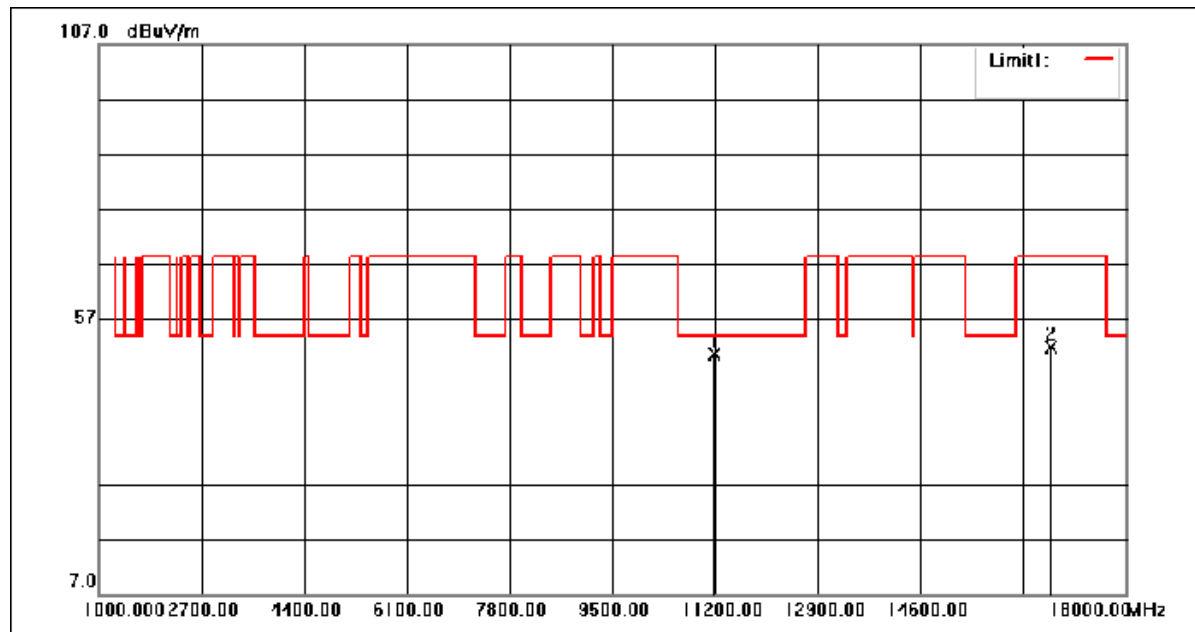
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11180.000	49.85	0.69	50.54	54.00	-3.46	peak
2	16770.000	43.09	8.84	51.93	68.30	-16.37	peak



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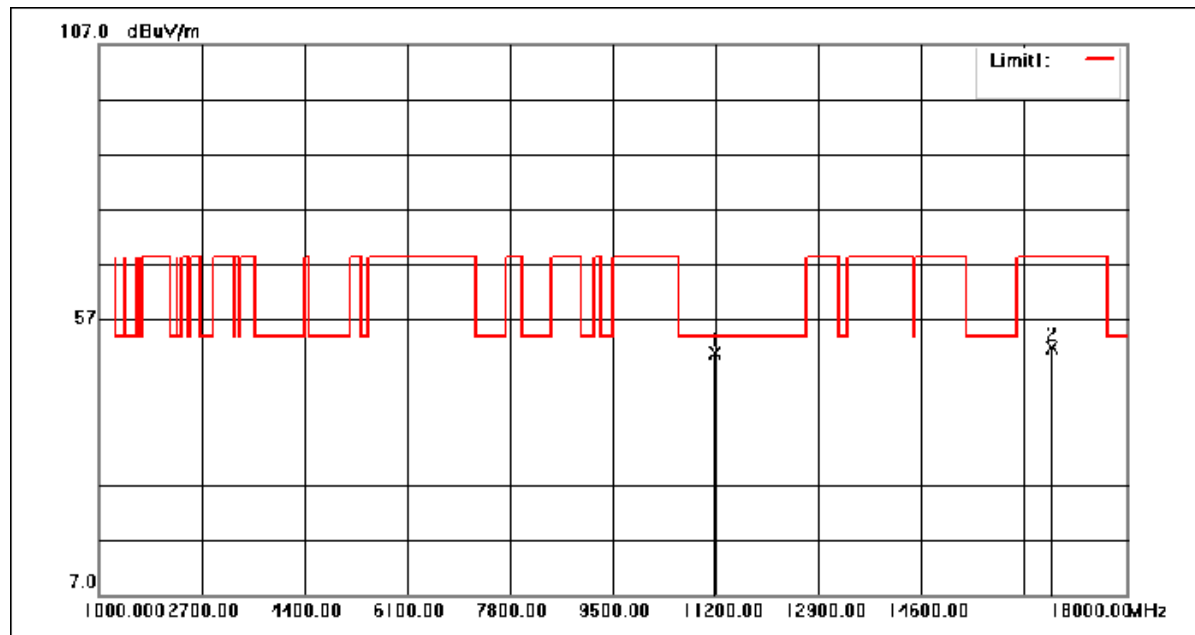
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11180.000	50.18	0.69	50.87	54.00	-3.13	peak
2	16770.000	43.14	8.84	51.98	68.30	-16.32	peak



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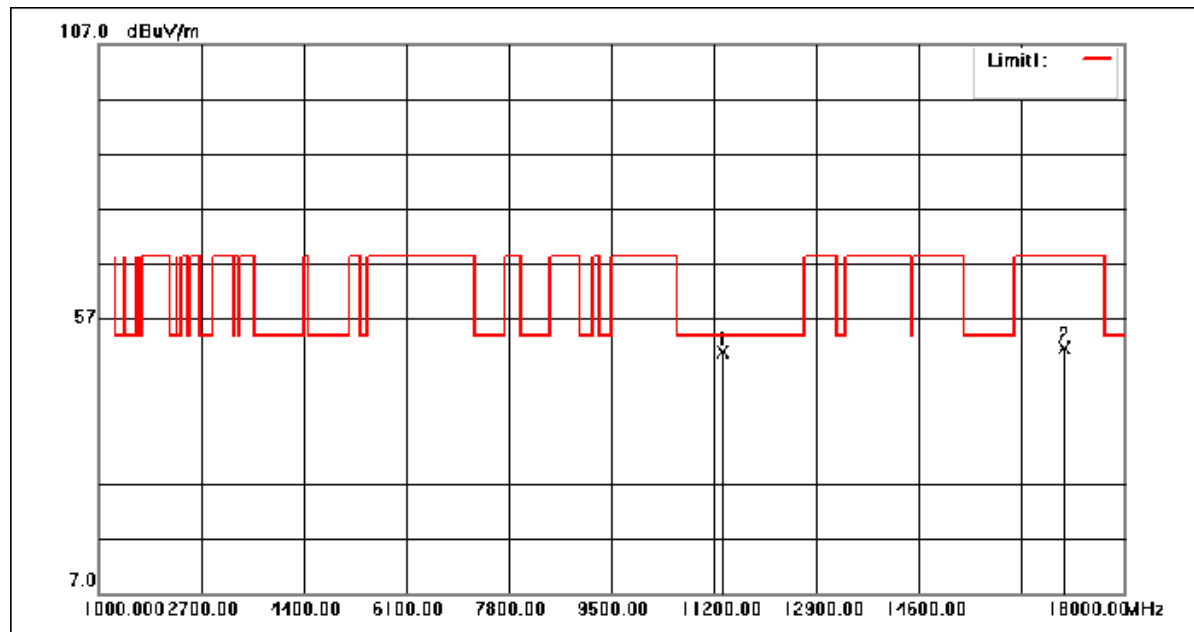
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	49.95	0.82	50.77	54.00	-3.23	peak
2	17010.000	42.57	9.18	51.75	68.30	-16.55	peak



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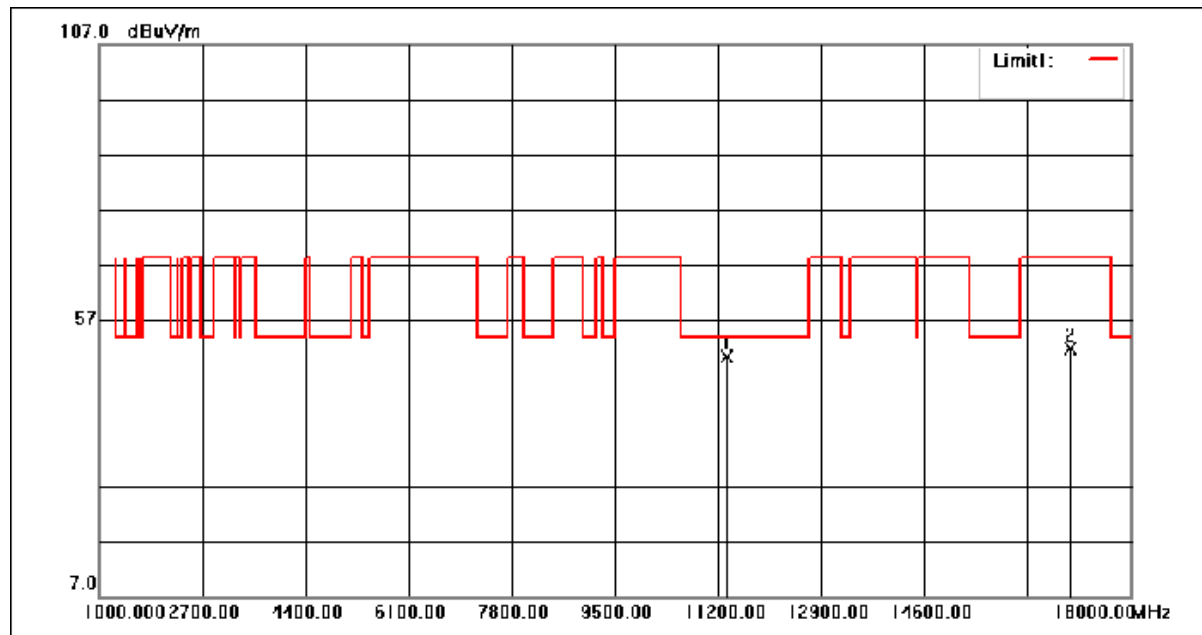
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	49.51	0.82	50.33	54.00	-3.67	peak
2	17010.000	42.69	9.18	51.87	68.30	-16.43	peak



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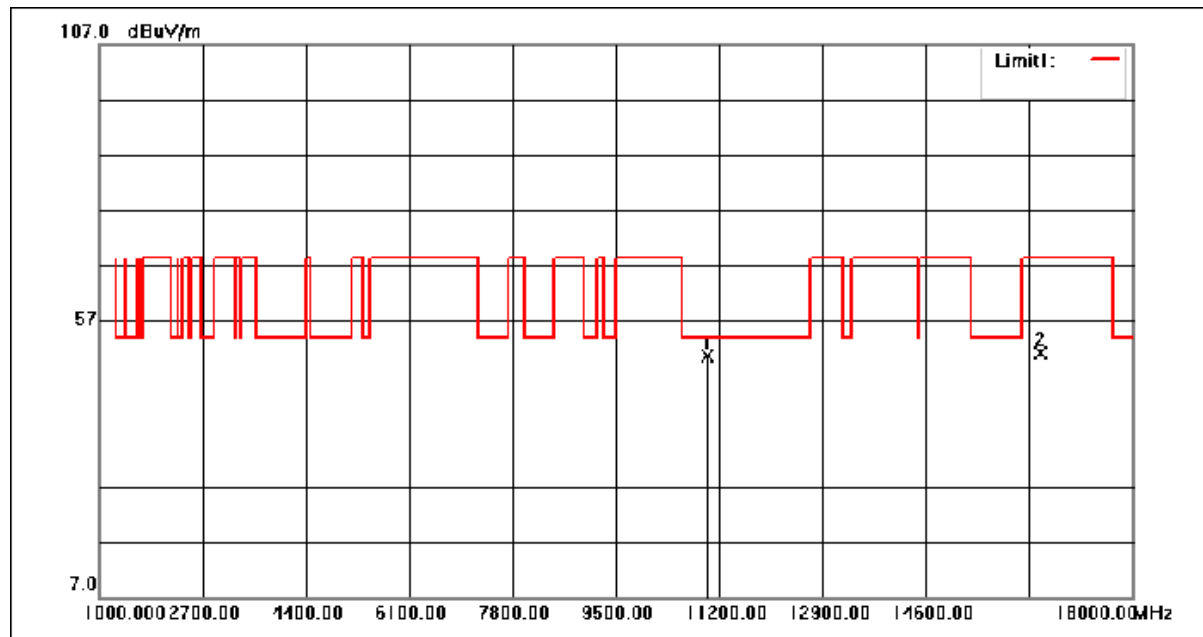
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	50.20	0.54	50.74	54.00	-3.26	peak
2	16500.000	42.61	8.43	51.04	68.30	-17.26	peak



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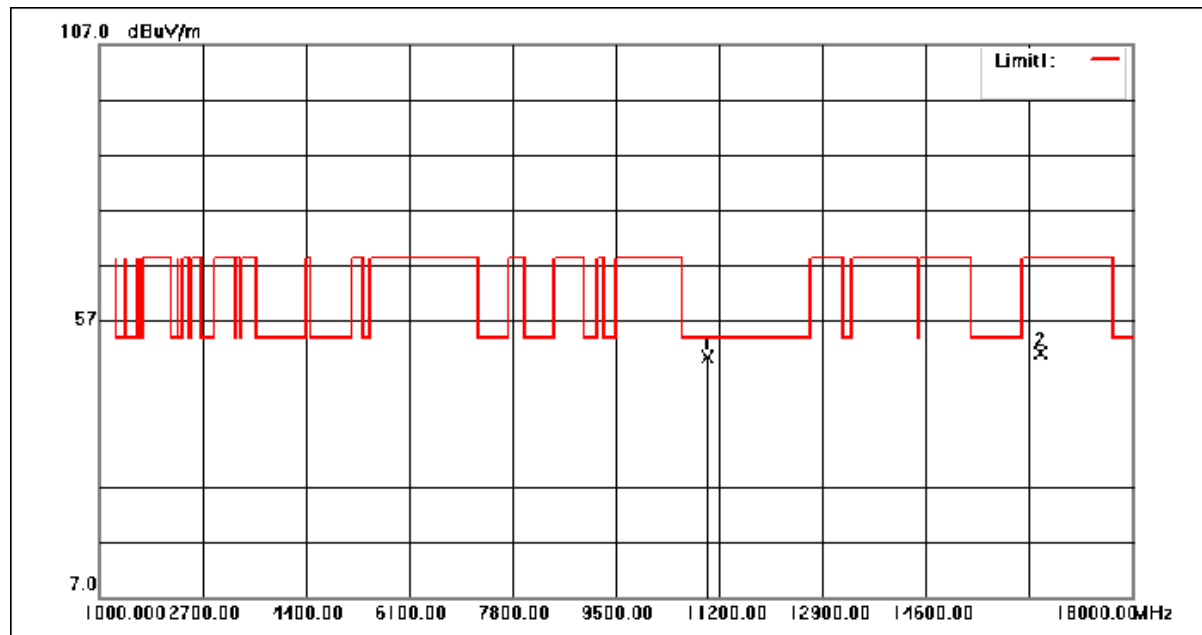
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	49.73	0.54	50.27	54.00	-3.73	peak
2	16500.000	42.70	8.43	51.13	68.30	-17.17	peak



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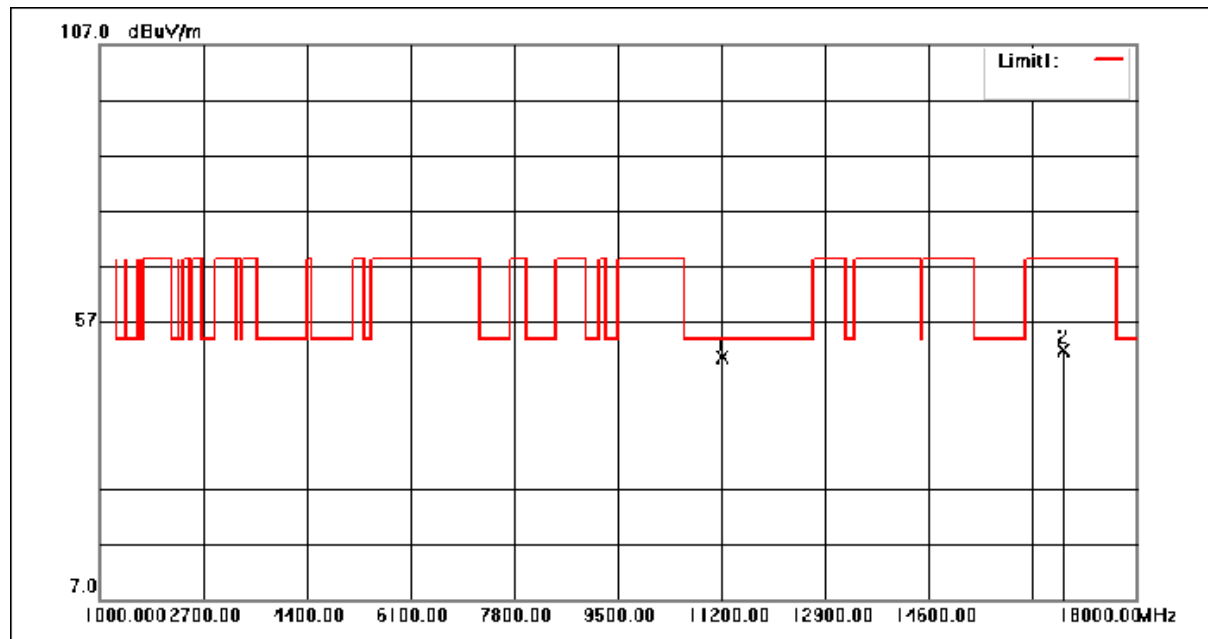
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	49.80	0.71	50.51	54.00	-3.49	peak
2	16800.000	42.97	8.89	51.86	68.30	-16.44	peak



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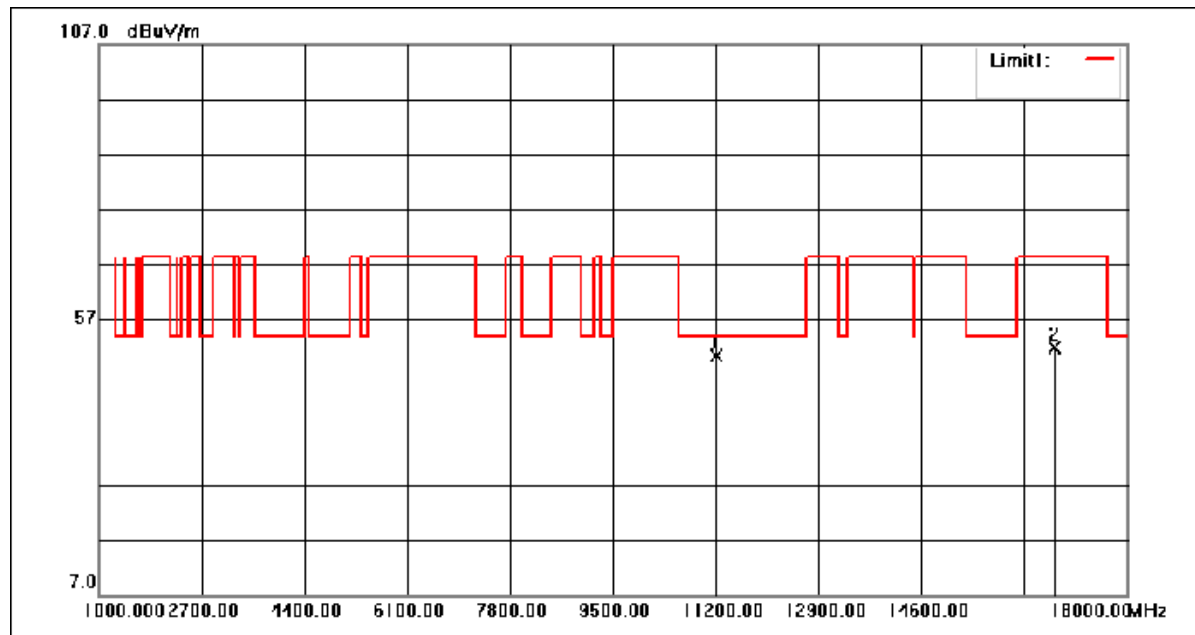
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	49.71	0.71	50.42	54.00	-3.58	peak
2	16800.000	42.98	8.89	51.87	68.30	-16.43	peak



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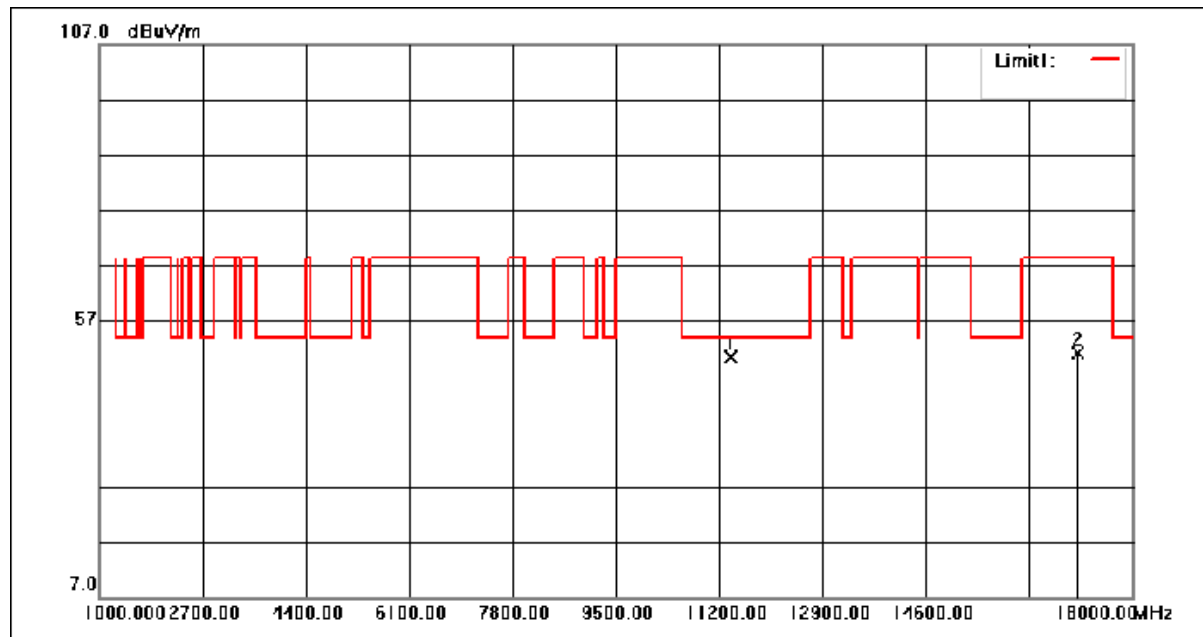
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	49.45	0.87	50.32	54.00	-3.68	peak
2	17100.000	41.88	9.13	51.01	68.30	-17.29	peak



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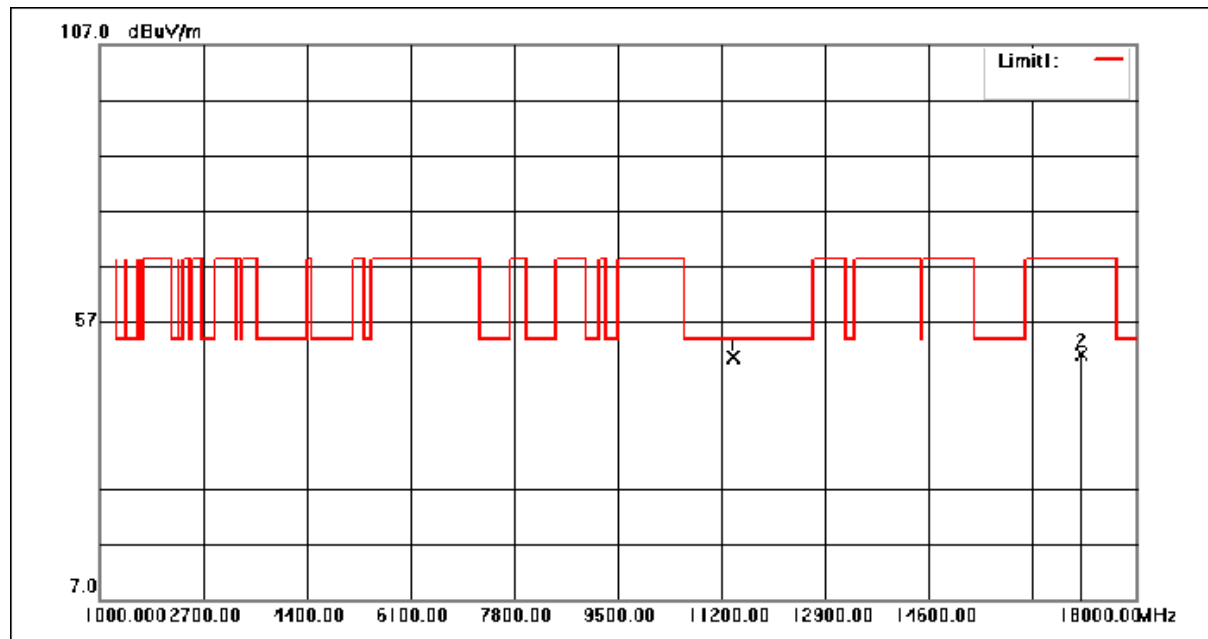
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	49.67	0.87	50.54	54.00	-3.46	peak
2	17100.000	42.12	9.13	51.25	68.30	-17.05	peak



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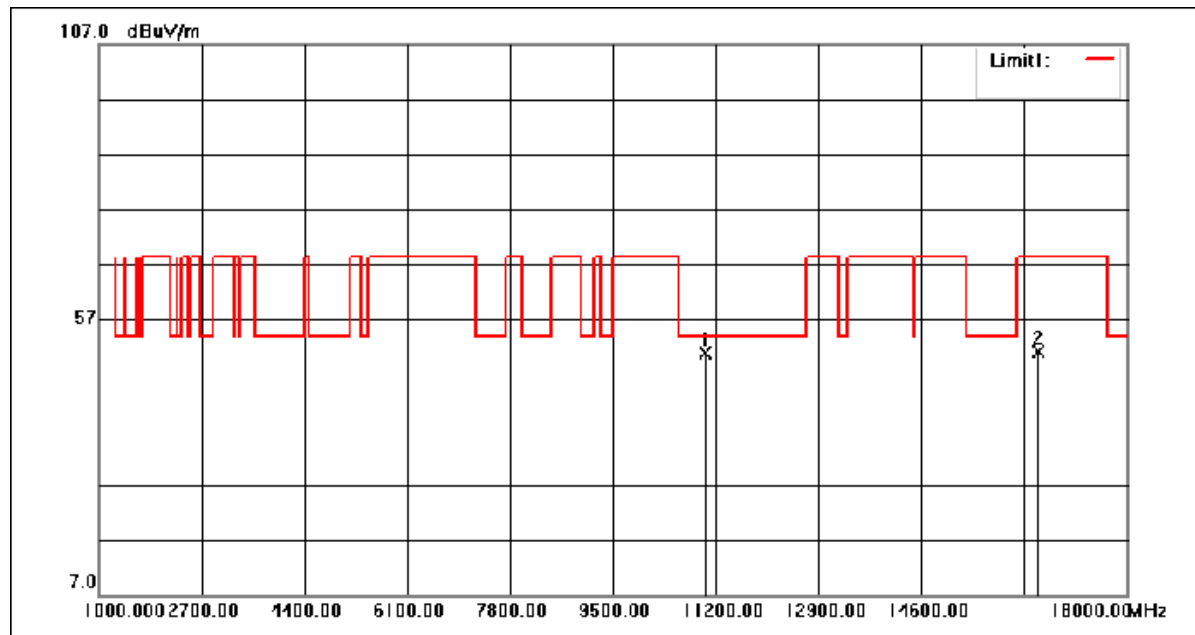
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	50.36	0.56	50.92	54.00	-3.08	peak
2	16530.000	42.77	8.47	51.24	68.30	-17.06	peak



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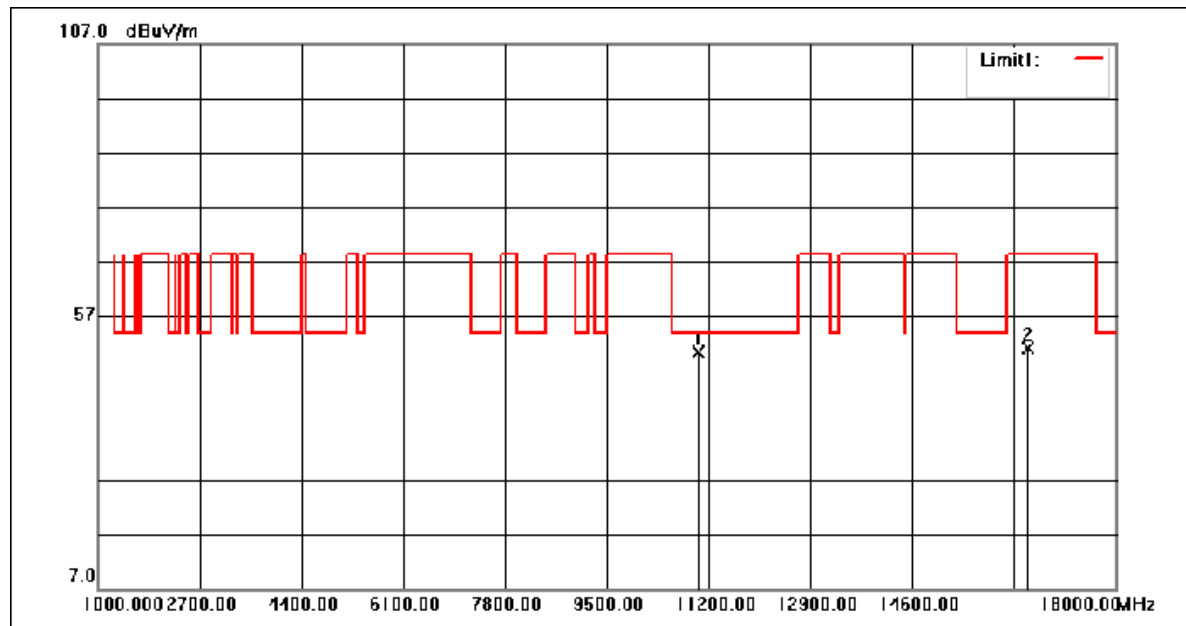
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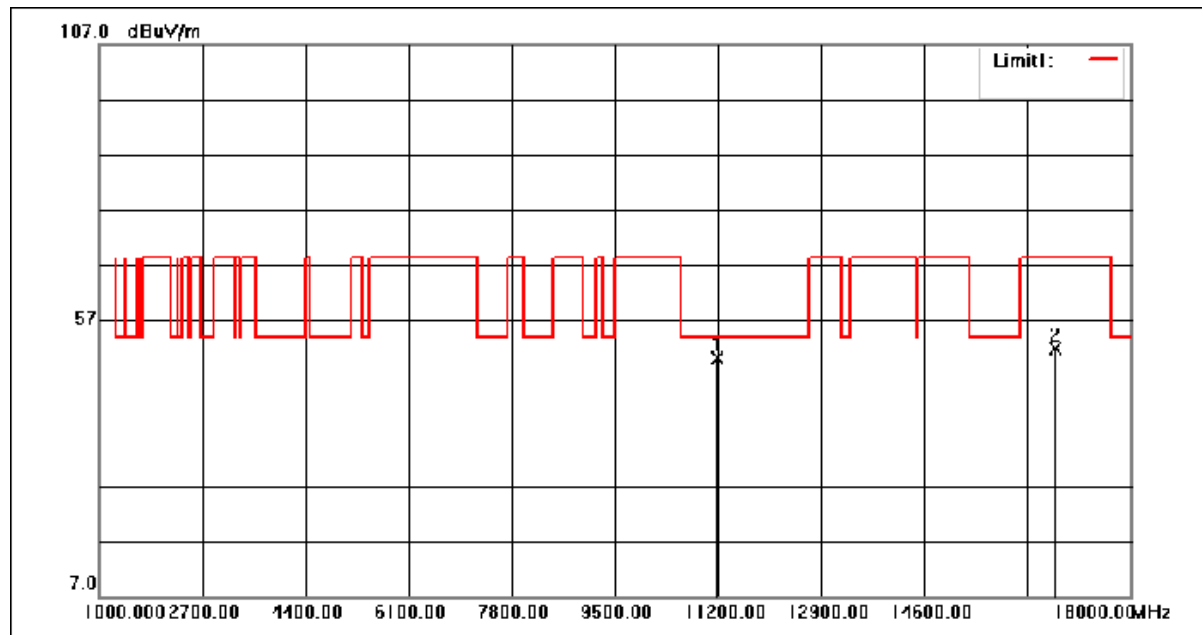
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	49.70	0.56	50.26	54.00	-3.74	peak
2	16530.000	42.75	8.47	51.22	68.30	-17.08	peak

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11180.000	49.45	0.69	50.14	54.00	-3.86	peak
2	16770.000	43.06	8.84	51.90	68.30	-16.40	peak



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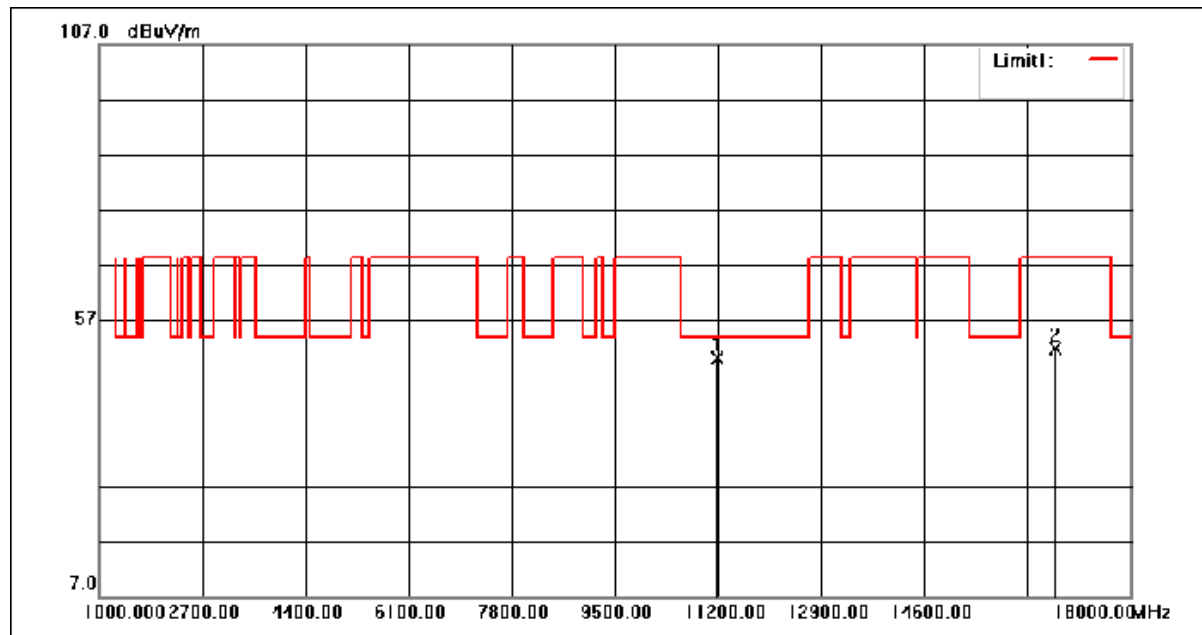
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1	11180.000	49.47	0.69	50.16	54.00	-3.84	peak
2	16770.000	43.13	8.84	51.97	68.30	-16.33	peak



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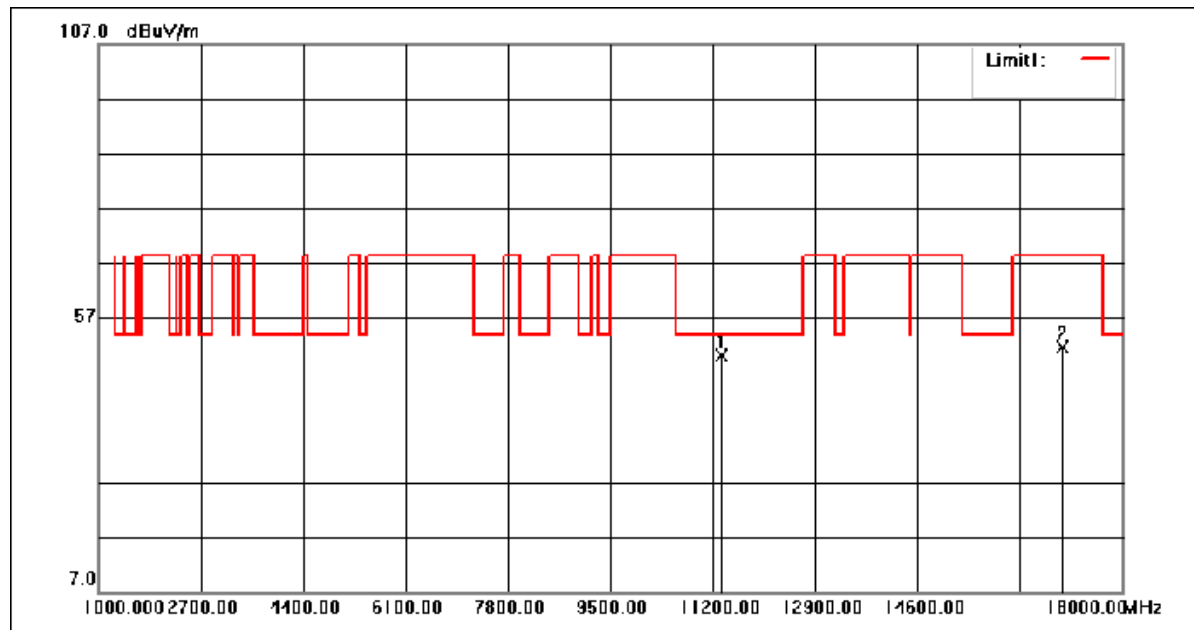
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1	11340.000	49.34	0.82	50.16	54.00	-3.84	peak
2	17010.000	42.40	9.18	51.58	68.30	-16.72	peak



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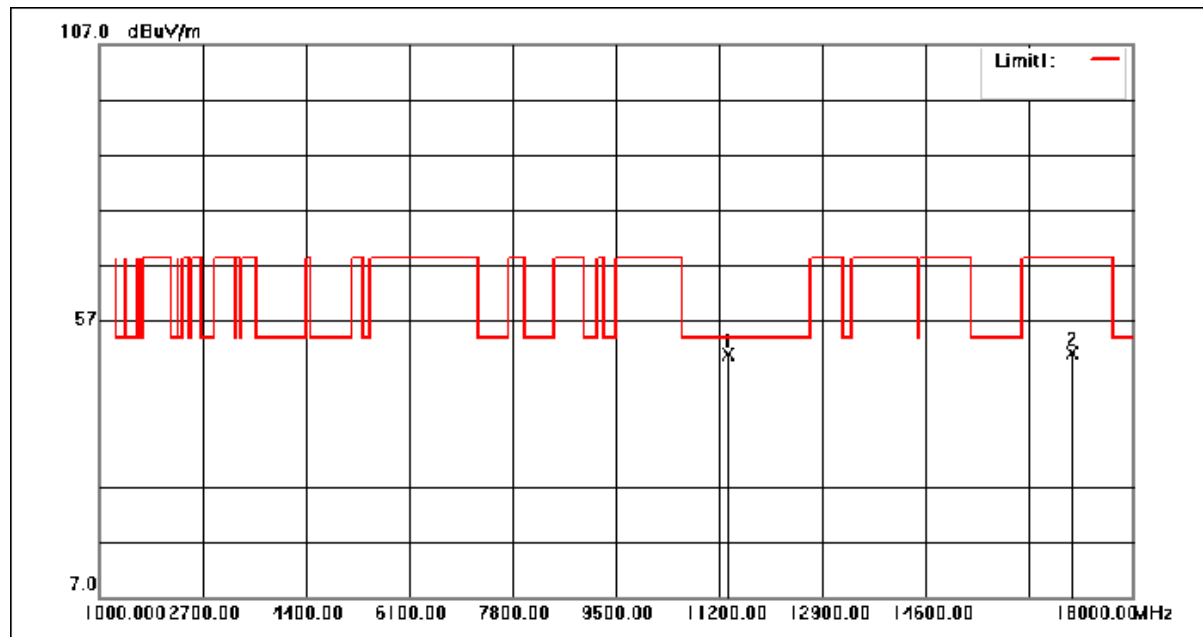
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1	11340.000	50.16	0.82	50.98	54.00	-3.02	peak
2	17010.000	42.01	9.18	51.19	68.30	-17.11	peak



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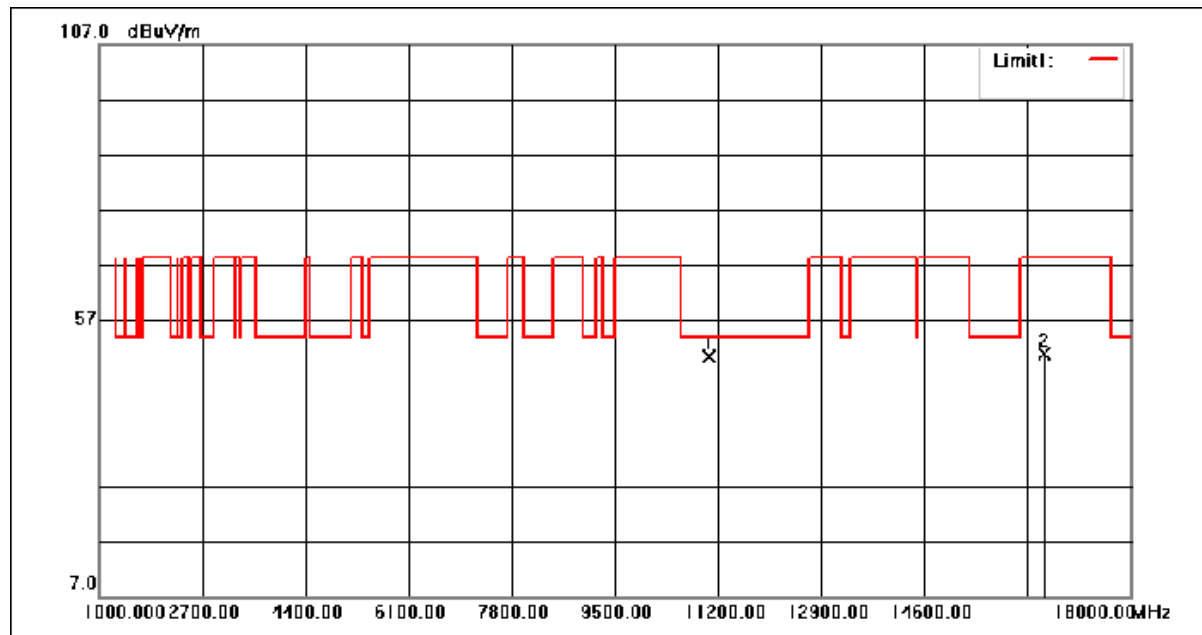
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	49.89	0.59	50.48	54.00	-3.52	peak
2	16590.000	42.44	8.56	51.00	68.30	-17.30	peak



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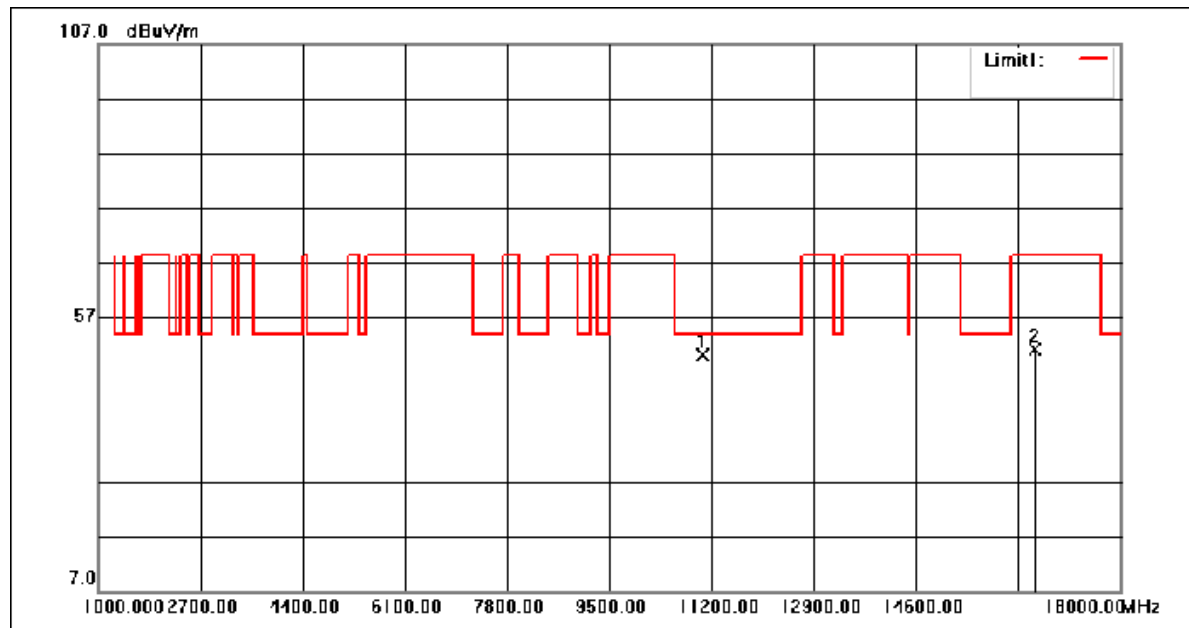
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	49.44	0.59	50.03	54.00	-3.97	peak
2	16590.000	42.66	8.56	51.22	68.30	-17.08	peak



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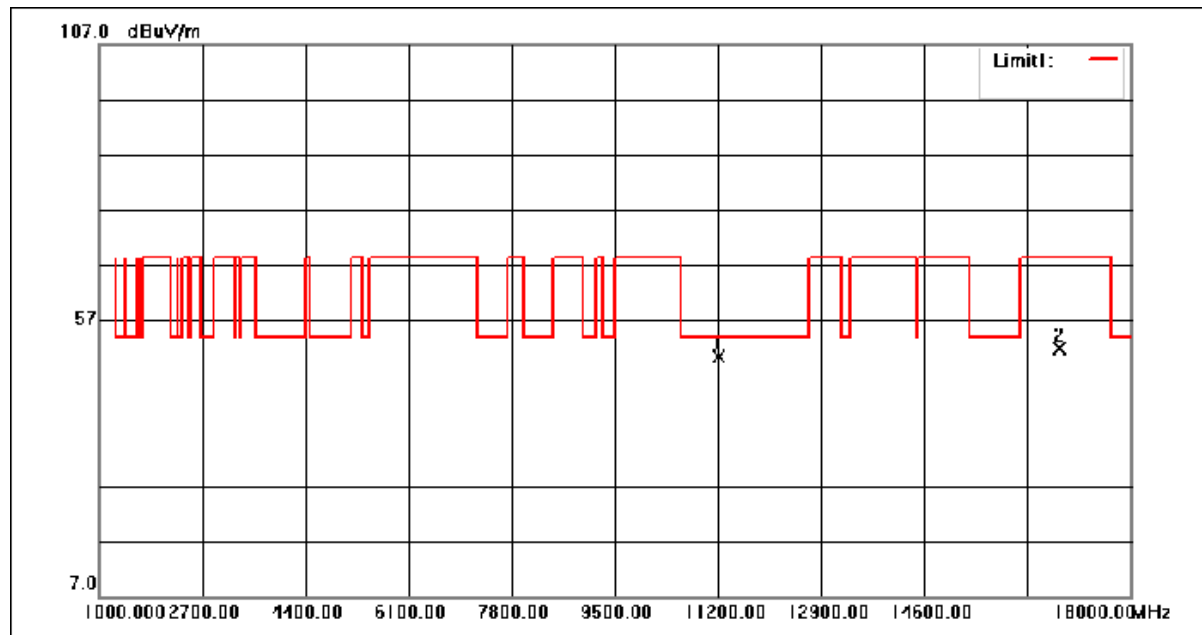
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11220.000	49.62	0.72	50.34	54.00	-3.66	peak
2	16830.000	43.03	8.93	51.96	68.30	-16.34	peak



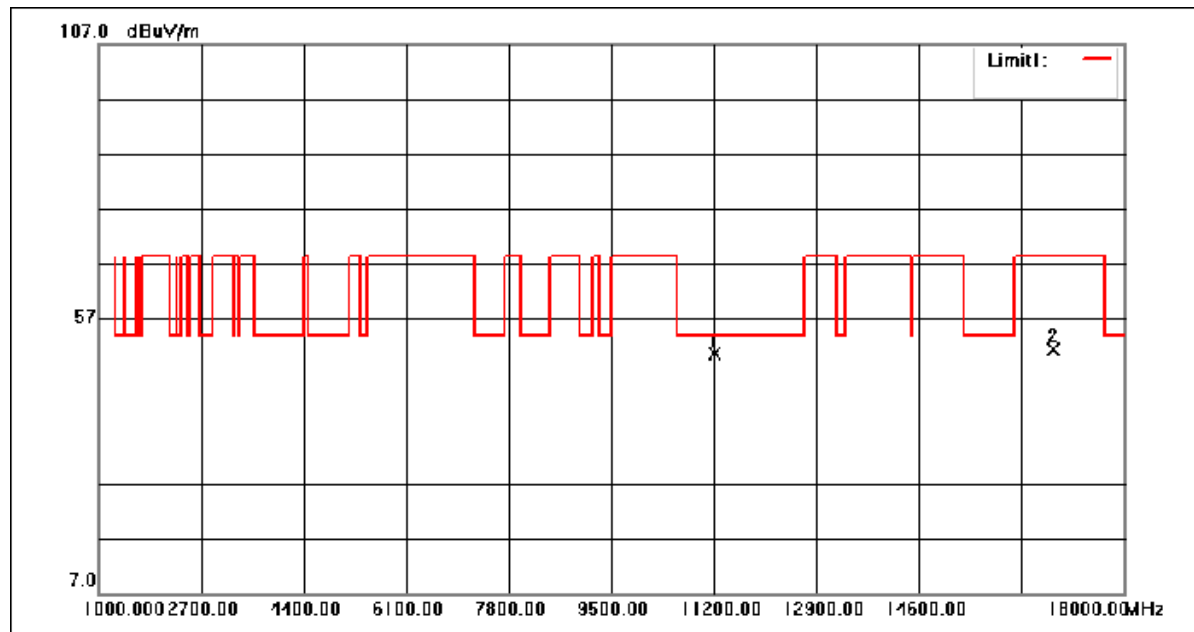
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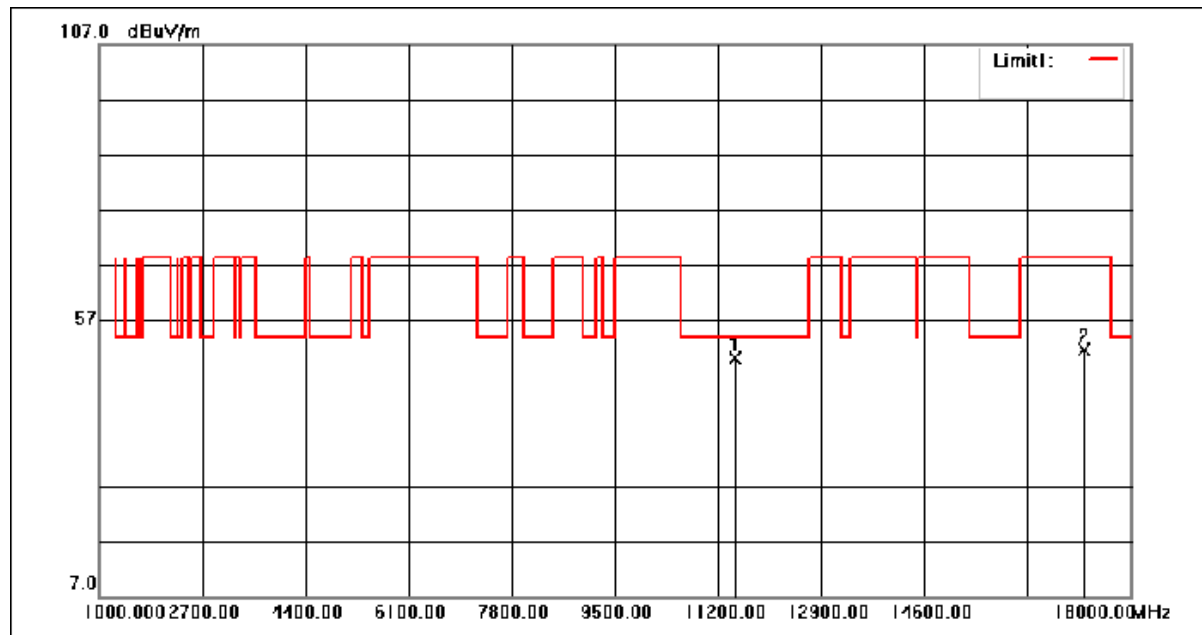
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11220.000	49.83	0.72	50.55	54.00	-3.45	peak
2	16830.000	42.43	8.93	51.36	68.30	-16.94	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.26	0.94	50.20	54.00	-3.80	peak
2	17235.000	42.66	9.05	51.71	68.30	-16.59	peak



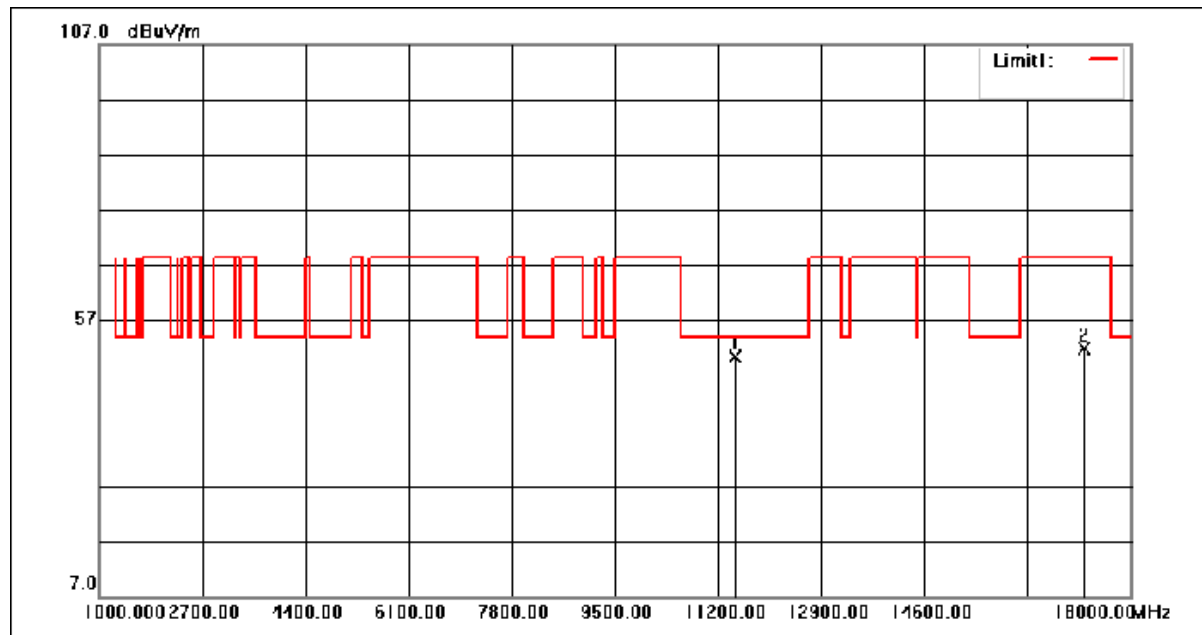
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.40	0.94	50.34	54.00	-3.66	peak
2	17235.000	42.78	9.05	51.83	68.30	-16.47	peak



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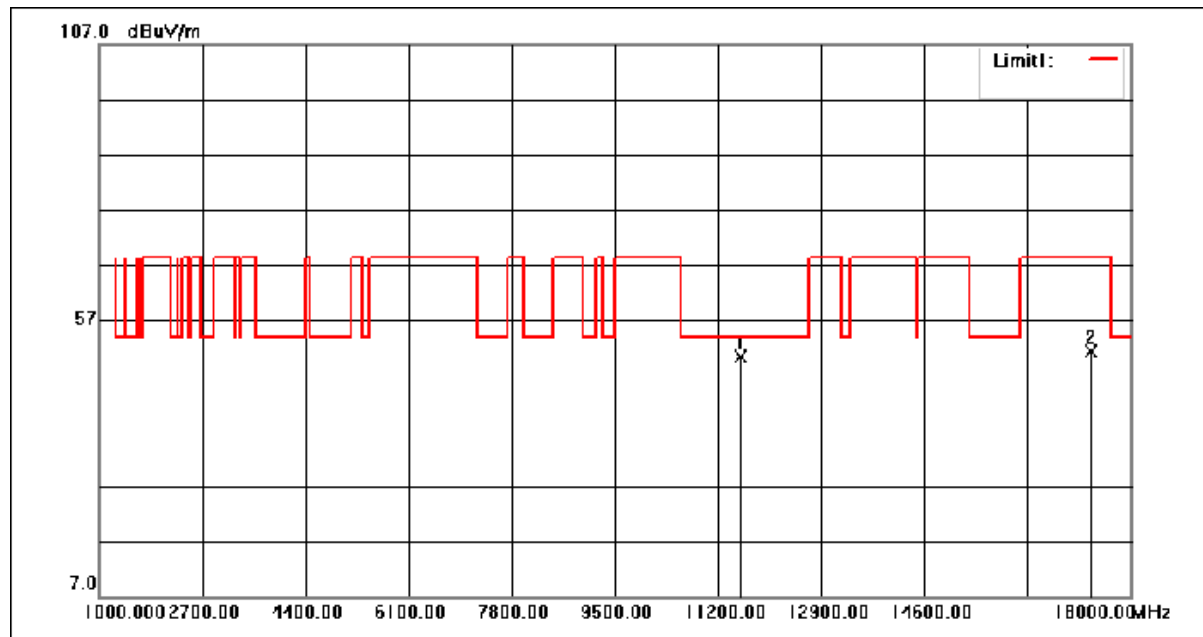
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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.21	1.18	50.39	54.00	-3.61	peak
2	17355.000	42.47	8.98	51.45	68.30	-16.85	peak



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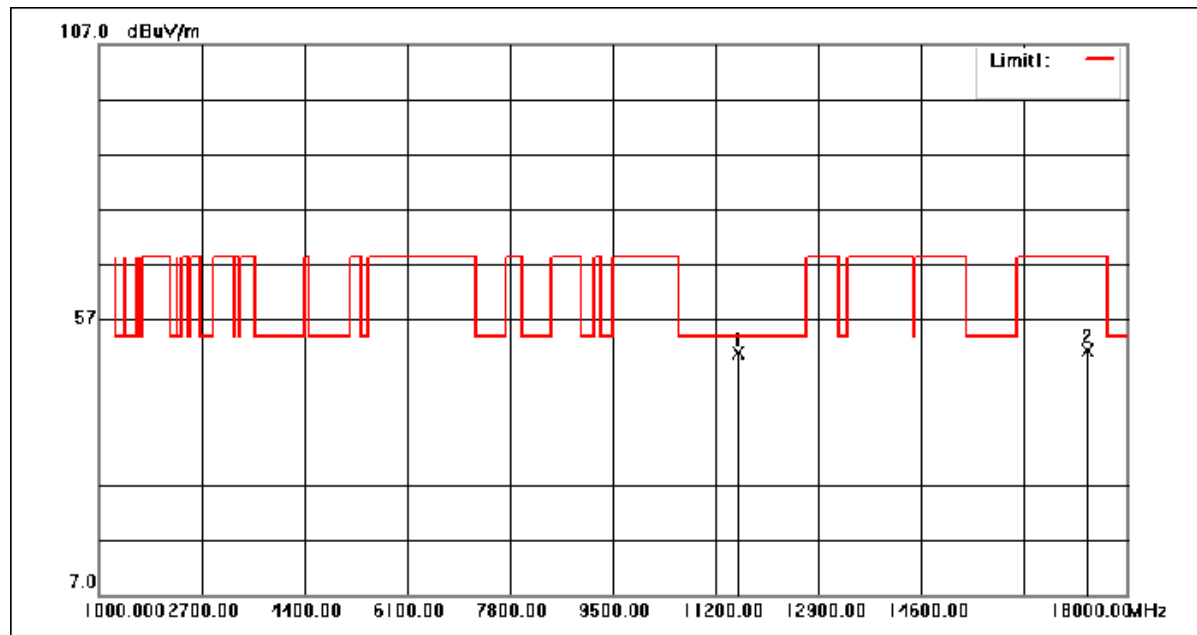
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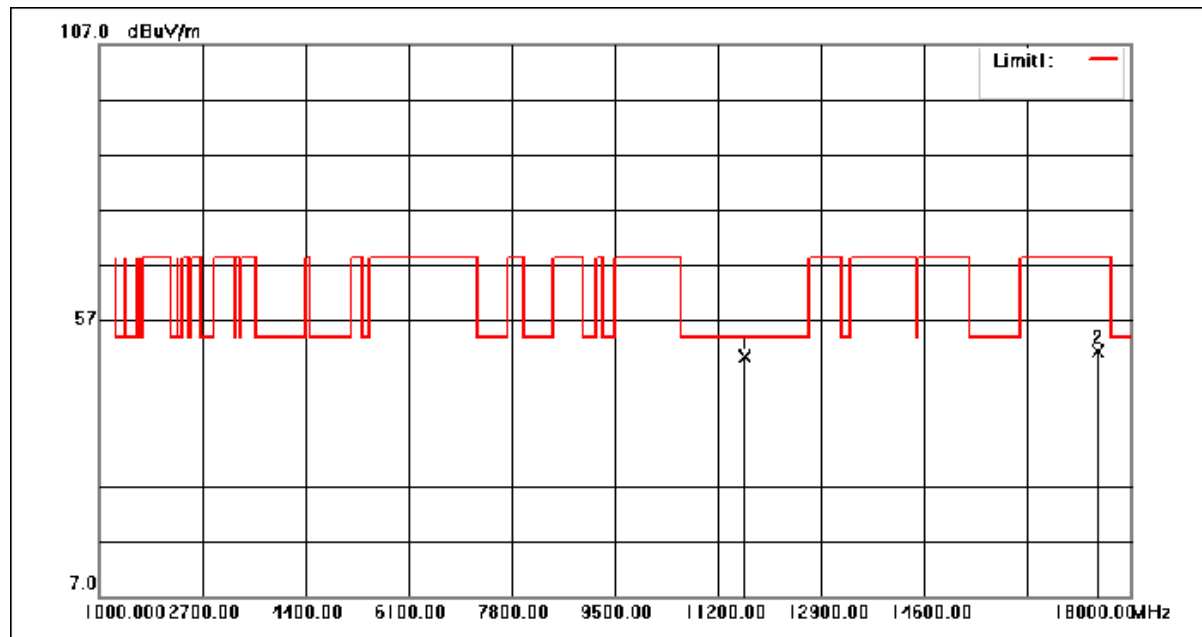
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.67	1.18	50.85	54.00	-3.15	peak
2	17355.000	42.35	8.98	51.33	68.30	-16.97	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.93	1.45	50.38	54.00	-3.62	peak
2	17475.000	42.39	8.90	51.29	68.30	-17.01	peak



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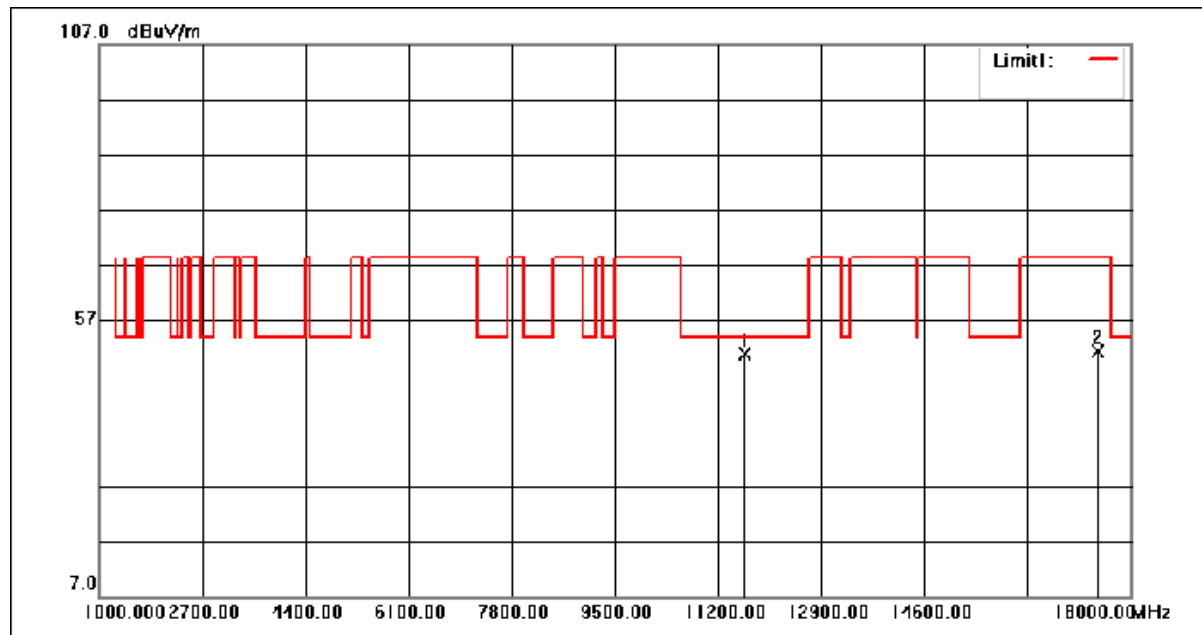
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.47	1.45	50.92	54.00	-3.08	peak
2	17475.000	42.54	8.90	51.44	68.30	-16.86	peak



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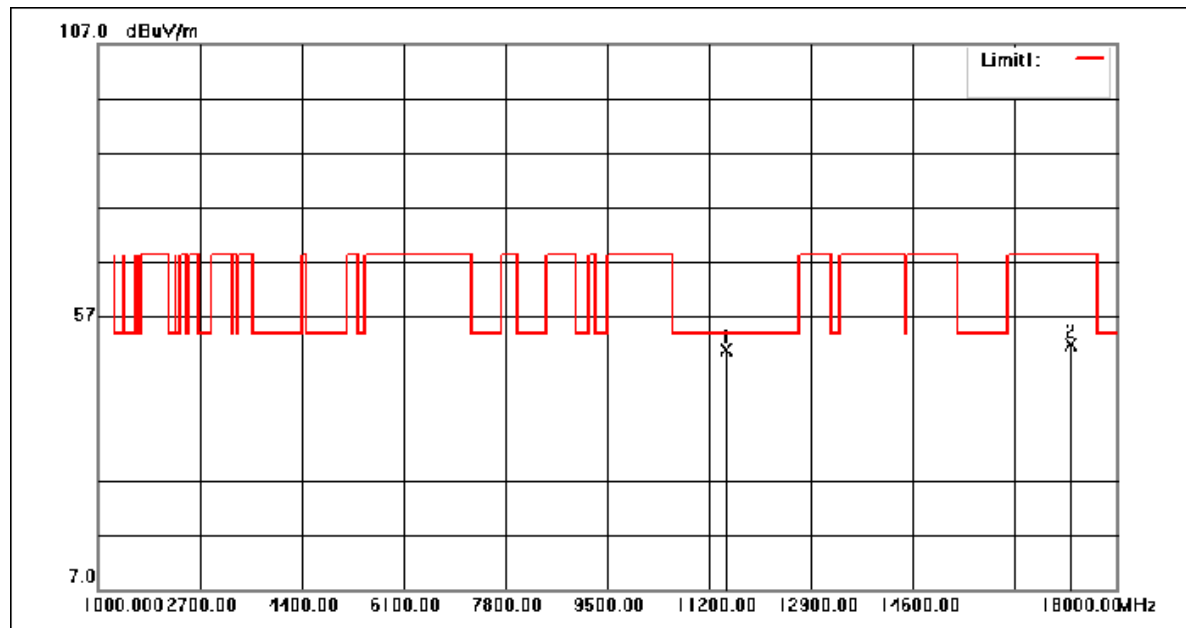
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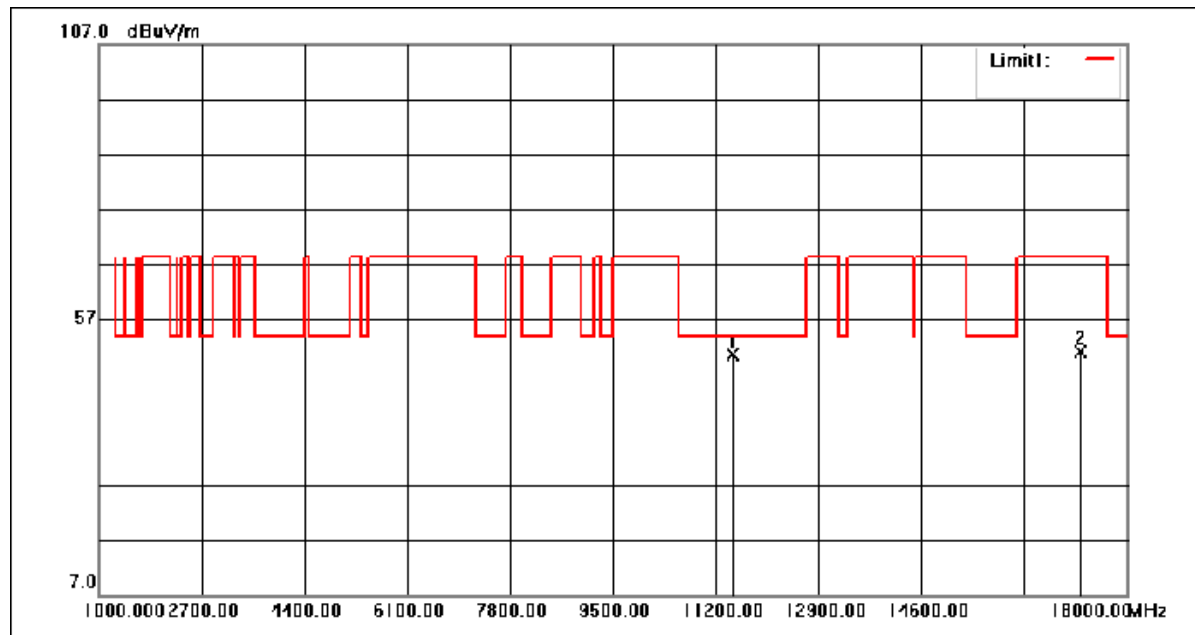
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	50.00	0.94	50.94	54.00	-3.06	peak
2	17235.000	42.77	9.05	51.82	68.30	-16.48	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.75	0.94	50.69	54.00	-3.31	peak
2	17235.000	42.00	9.05	51.05	68.30	-17.25	peak



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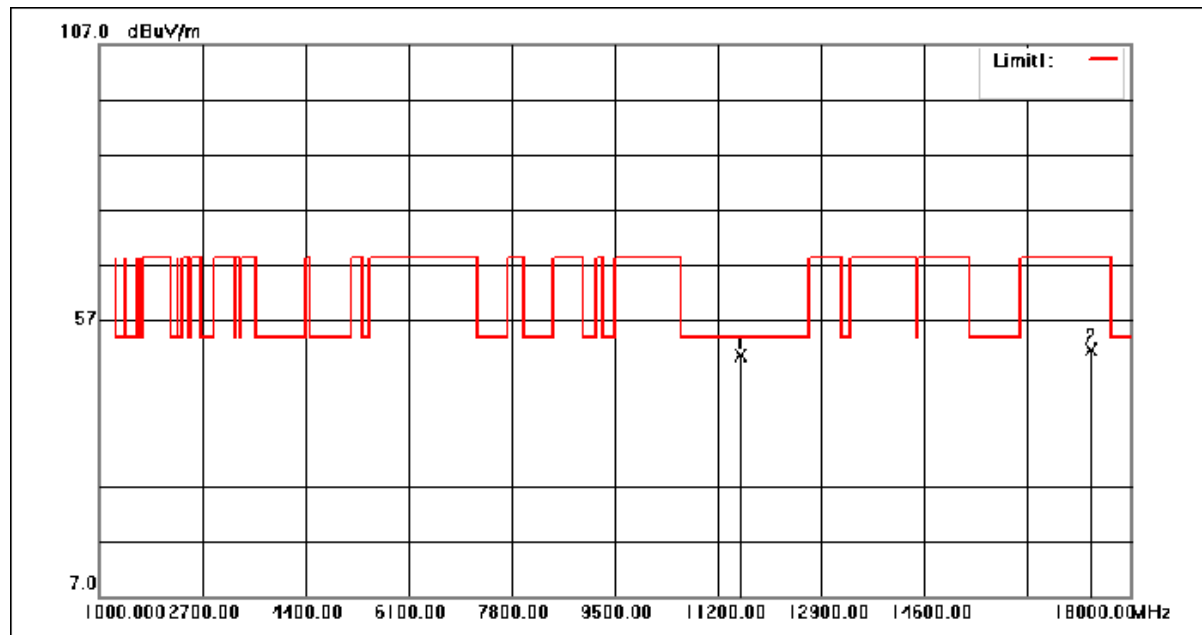
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.42	1.18	50.60	54.00	-3.40	peak
2	17355.000	42.74	8.98	51.72	68.30	-16.58	peak



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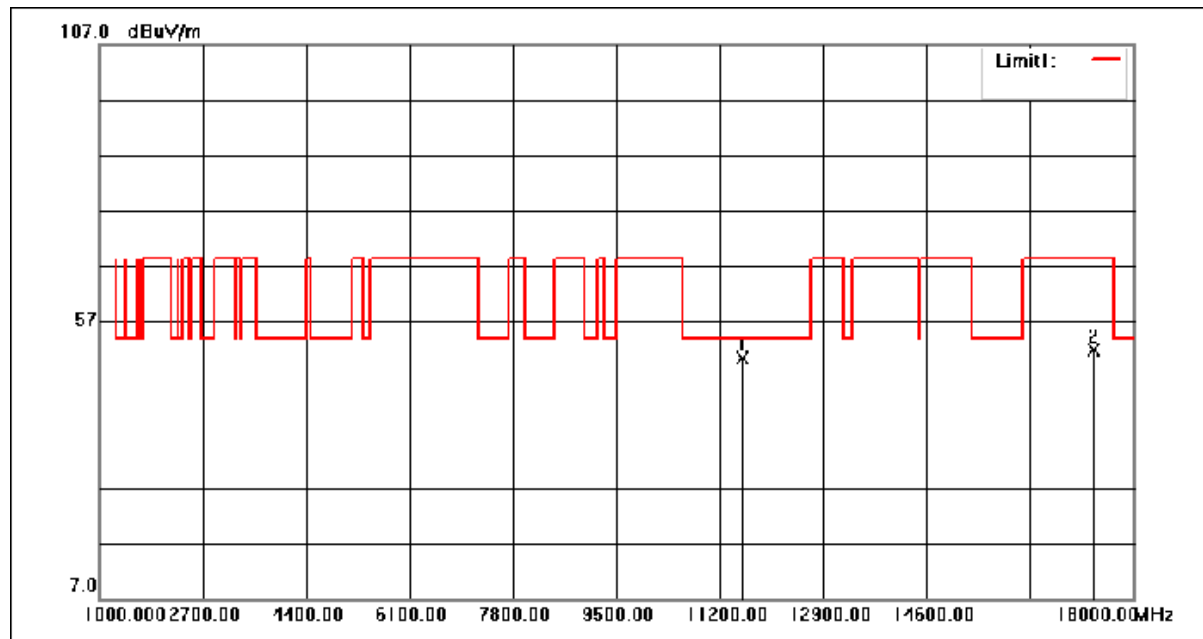
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.13	1.18	50.31	54.00	-3.69	peak
2	17355.000	42.93	8.98	51.91	68.30	-16.39	peak



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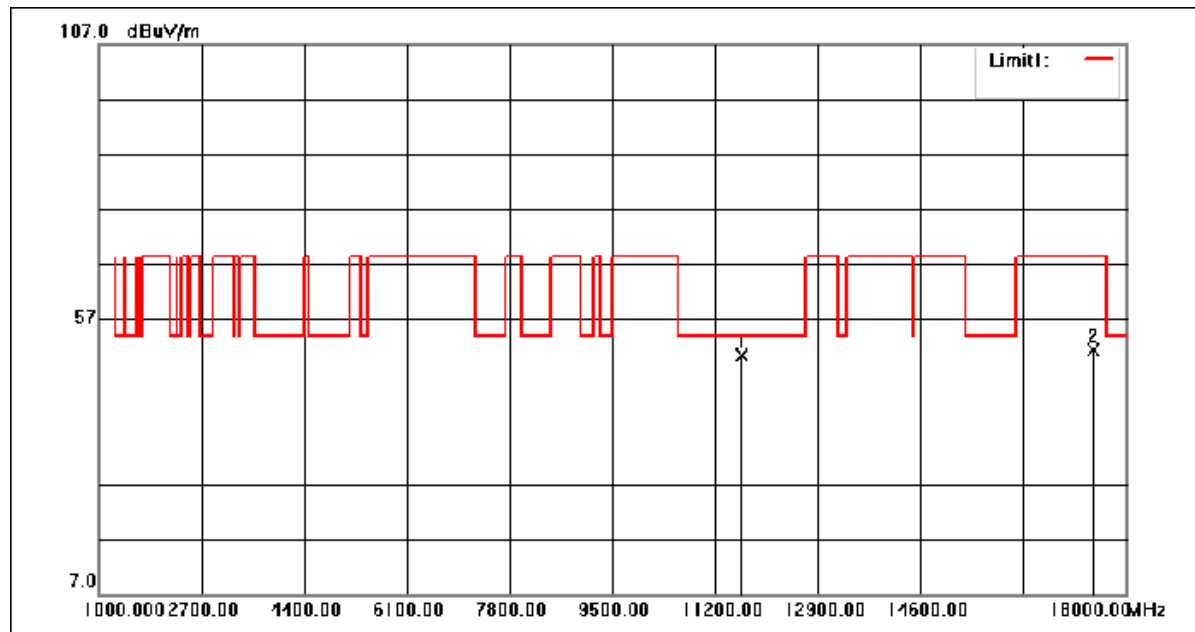
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.82	1.45	50.27	54.00	-3.73	peak
2	17475.000	42.44	8.90	51.34	68.30	-16.96	peak



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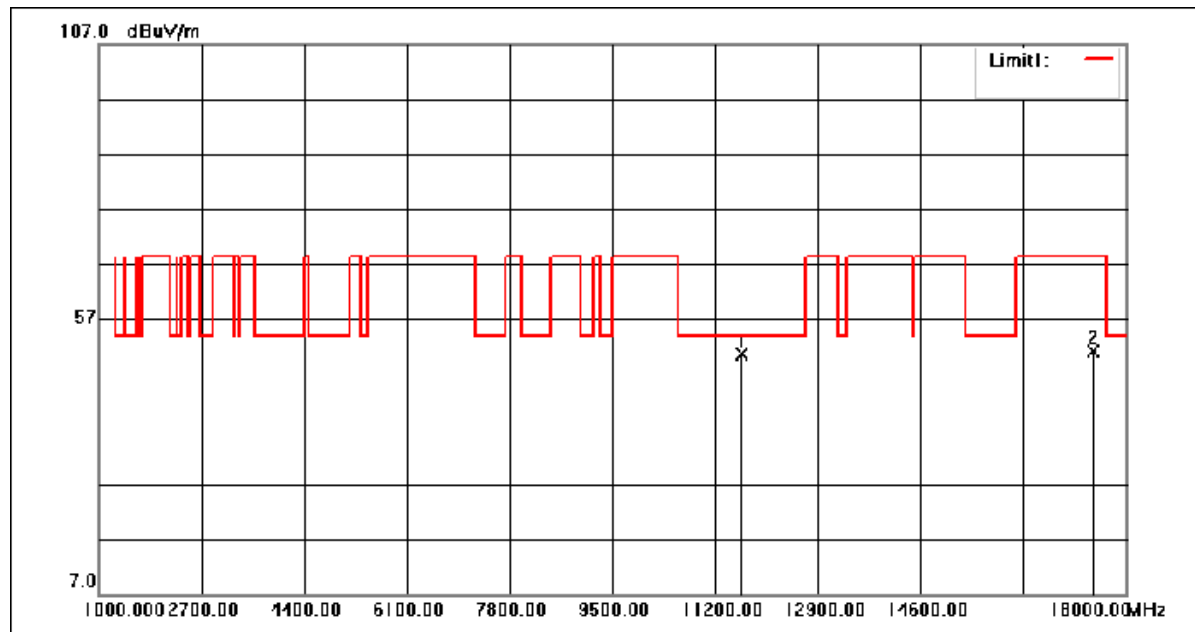
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.20	1.45	50.65	54.00	-3.35	peak
2	17475.000	42.17	8.90	51.07	68.30	-17.23	peak



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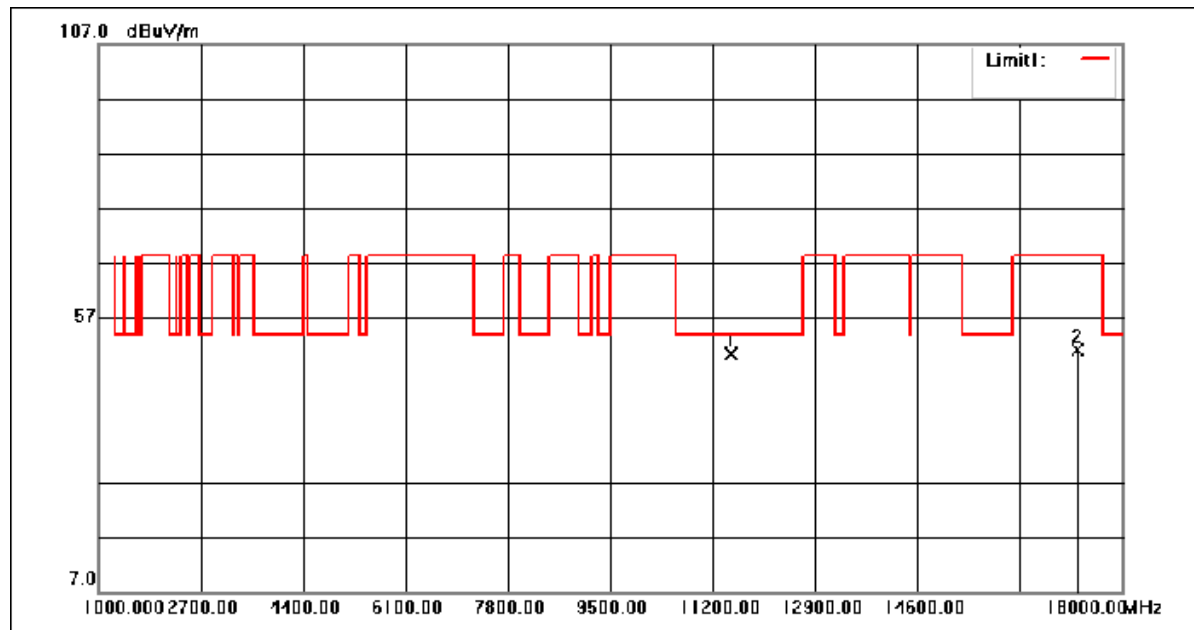
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.47	0.99	50.46	54.00	-3.54	peak
2	17265.000	42.06	9.03	51.09	68.30	-17.21	peak



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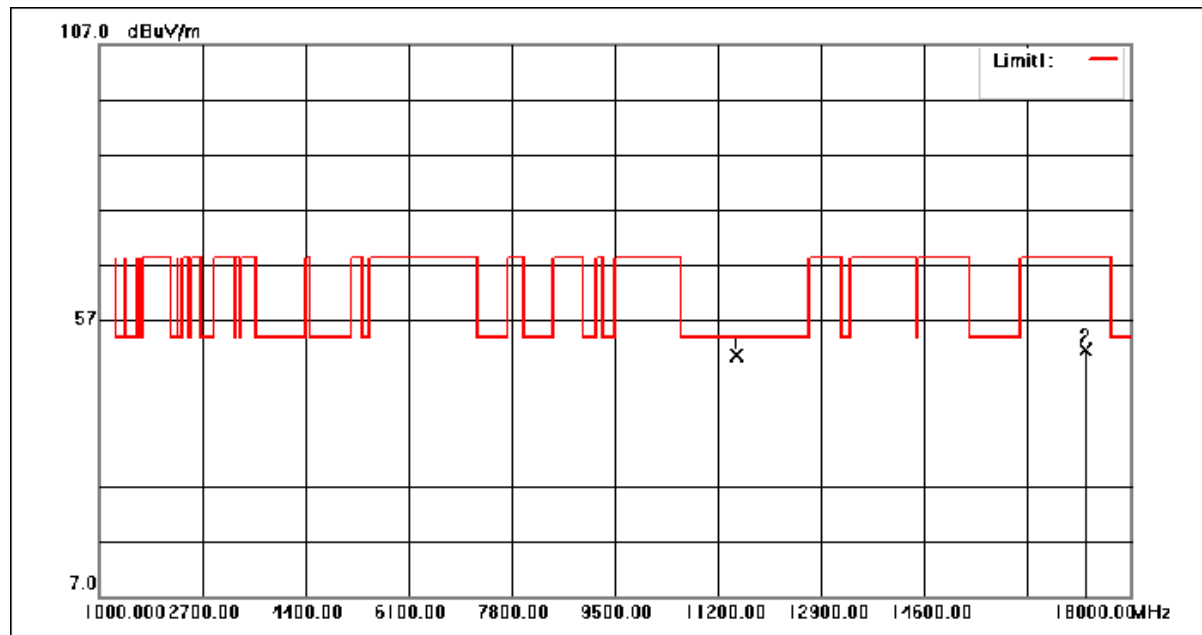
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.73	0.99	50.72	54.00	-3.28	peak
2	17265.000	42.51	9.03	51.54	68.30	-16.76	peak



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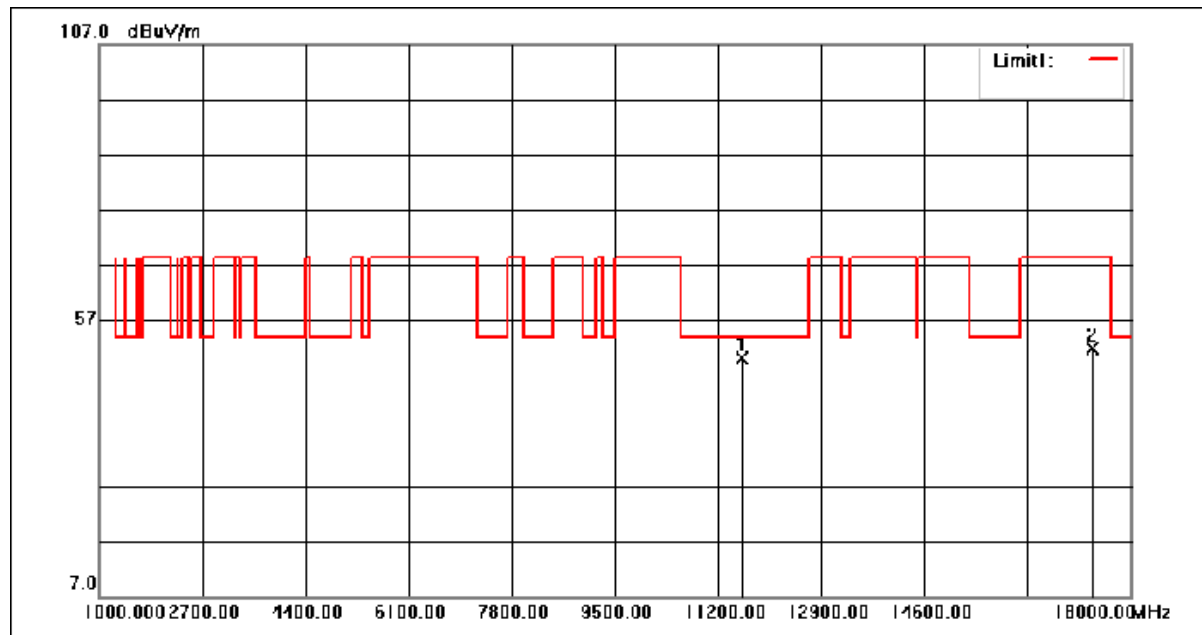
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.76	1.25	50.01	54.00	-3.99	peak
2	17385.000	42.97	8.96	51.93	68.30	-16.37	peak



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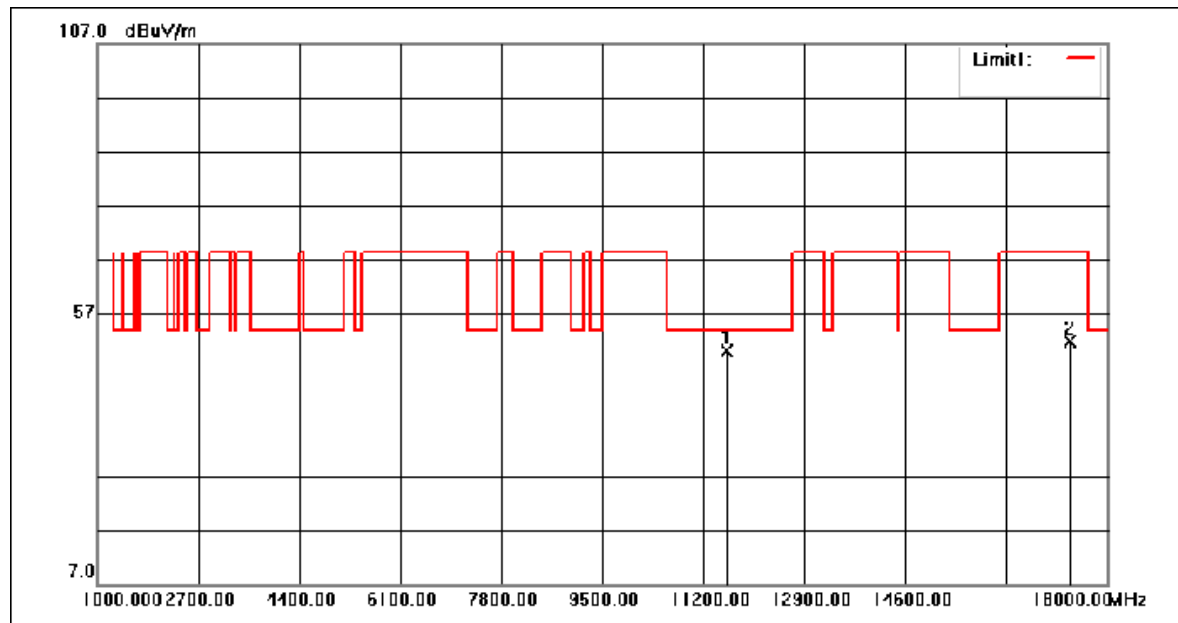
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.99	1.25	50.24	54.00	-3.76	peak
2	17385.000	42.89	8.96	51.85	68.30	-16.45	peak



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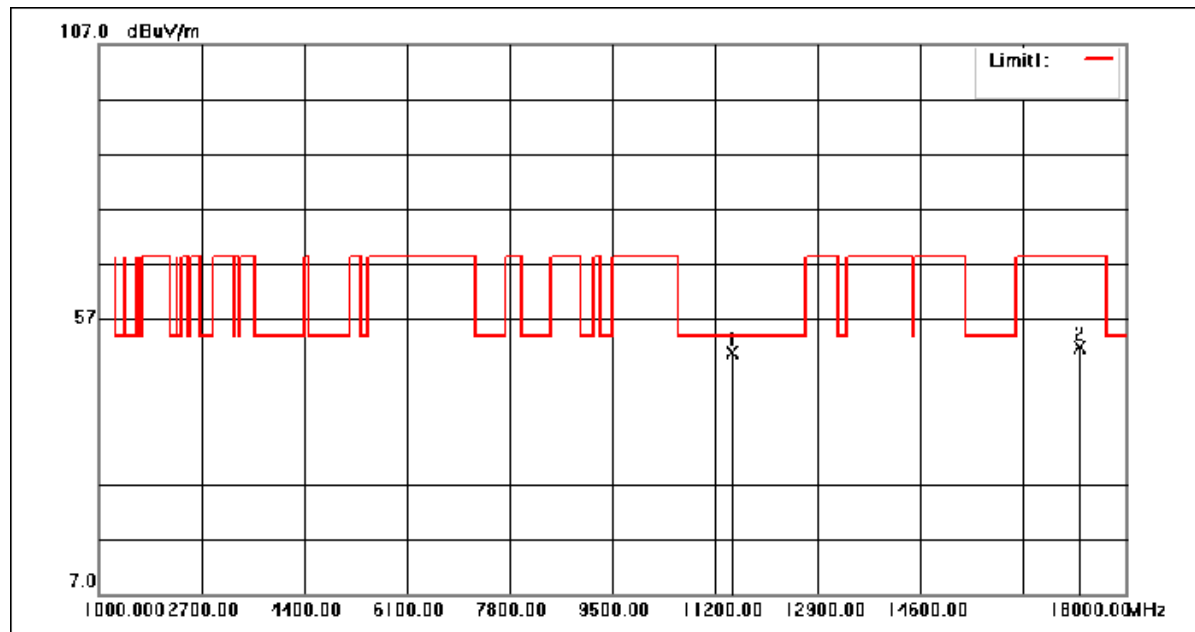
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.93	0.94	50.87	54.00	-3.13	peak
2	17235.000	42.89	9.05	51.94	68.30	-16.36	peak



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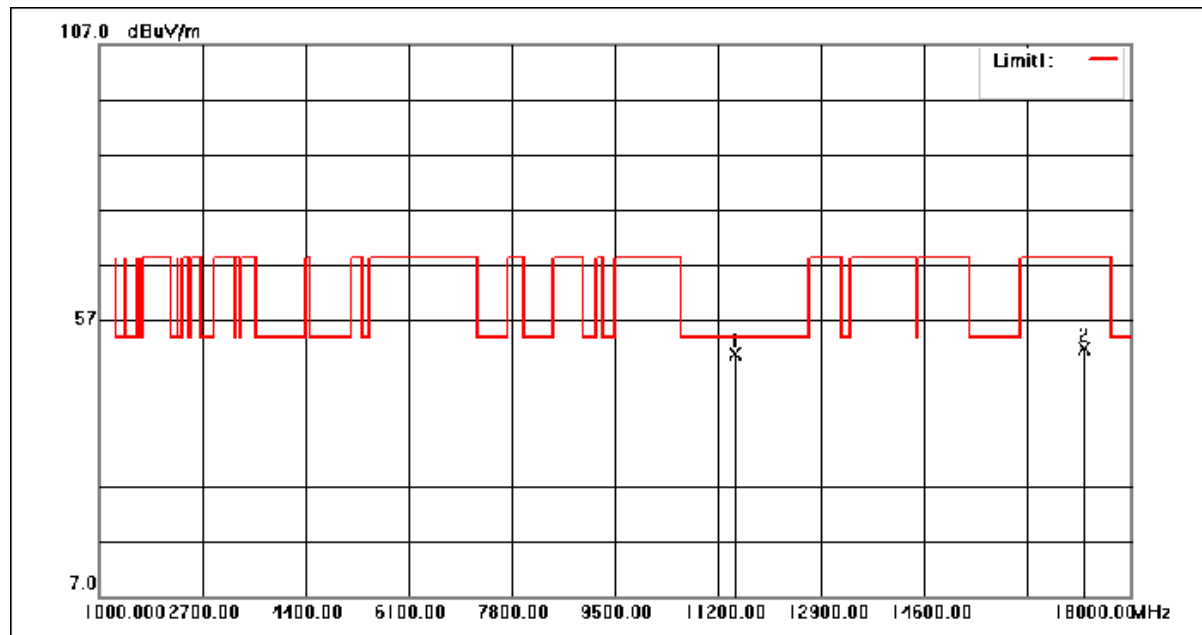
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.85	0.94	50.79	54.00	-3.21	peak
2	17235.000	42.90	9.05	51.95	68.30	-16.35	peak



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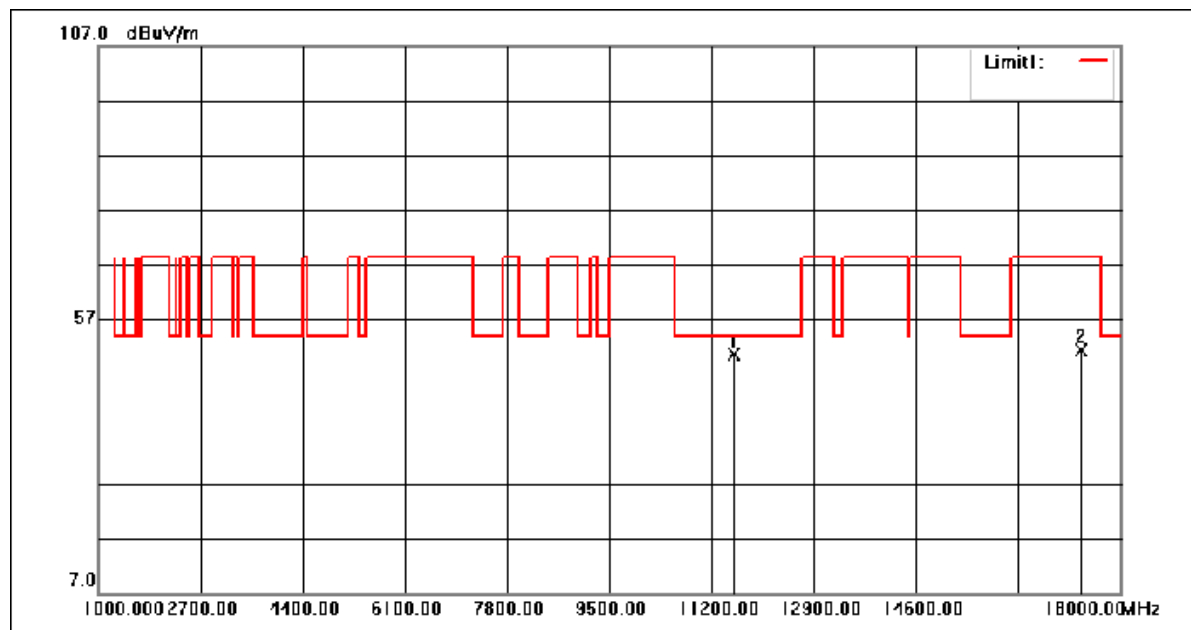
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.51	1.18	50.69	54.00	-3.31	peak
2	17355.000	42.48	8.98	51.46	68.30	-16.84	peak



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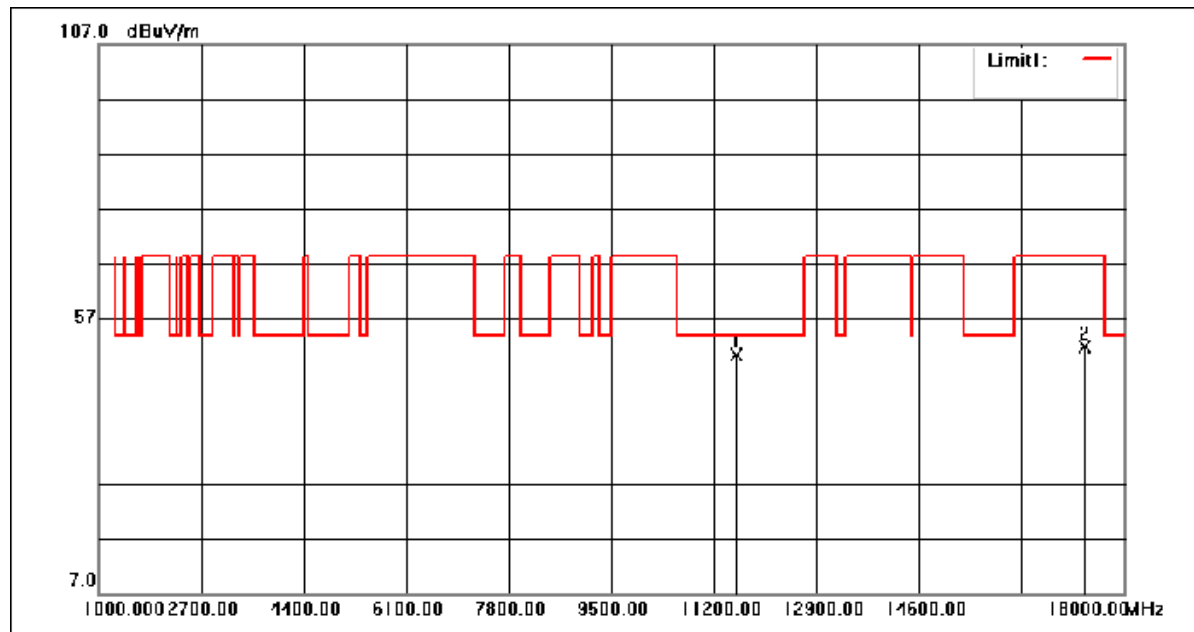
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.29	1.18	50.47	54.00	-3.53	peak
2	17355.000	42.89	8.98	51.87	68.30	-16.43	peak



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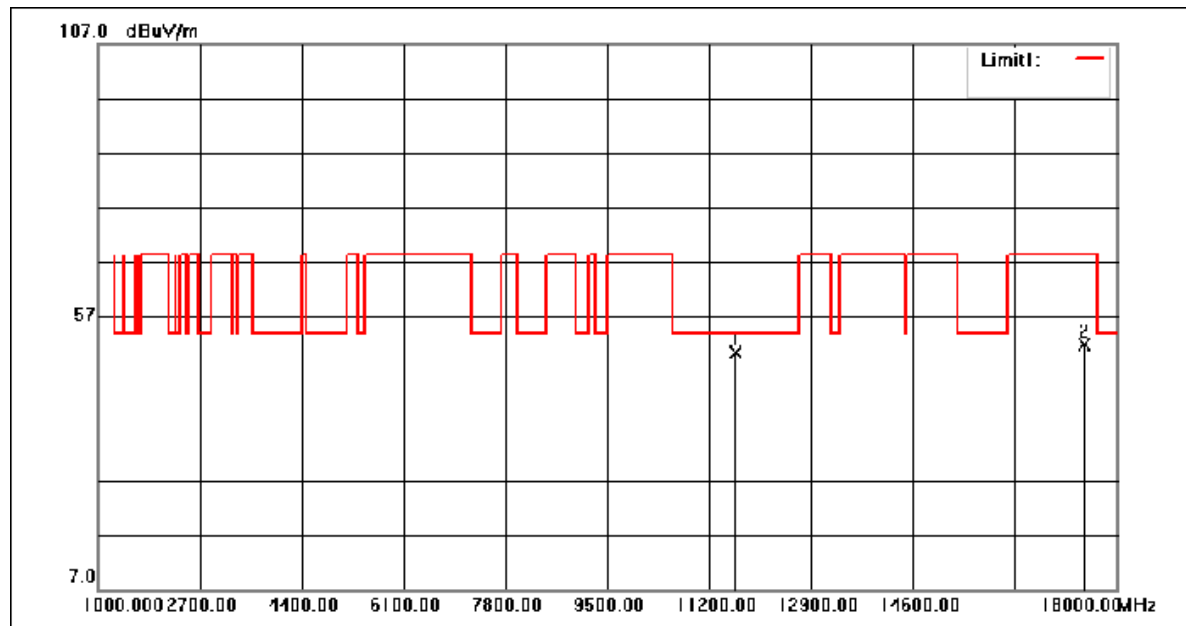
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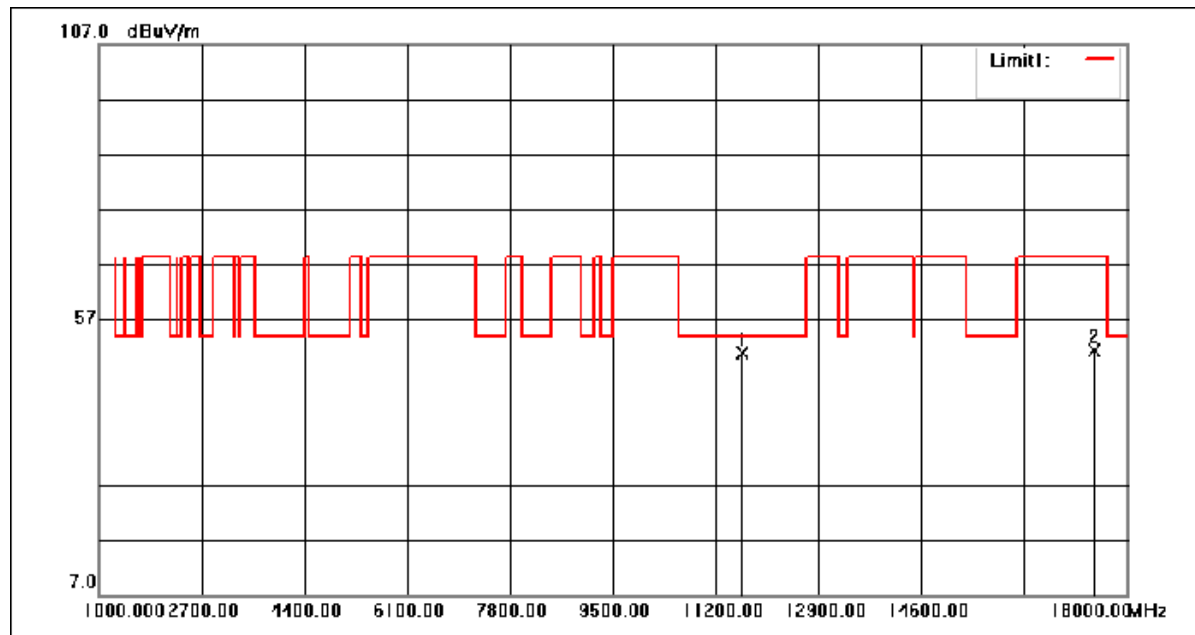
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.03	1.45	50.48	54.00	-3.52	peak
2	17475.000	42.88	8.90	51.78	68.30	-16.52	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.37	1.45	50.82	54.00	-3.18	peak
2	17475.000	42.57	8.90	51.47	68.30	-16.83	peak



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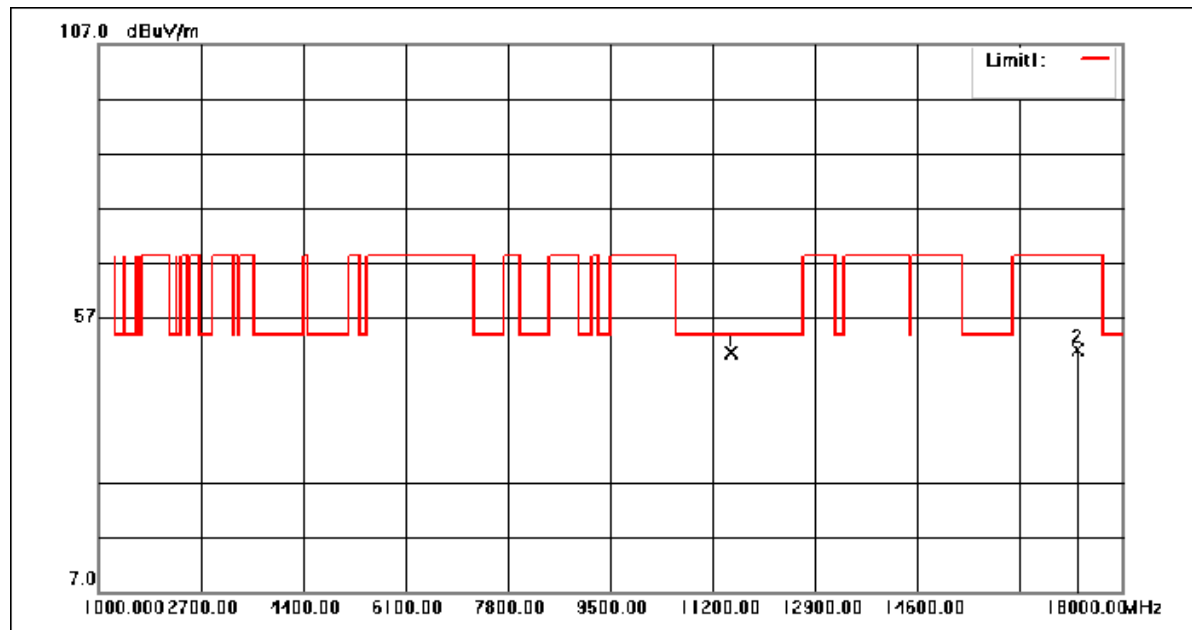
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.64	0.99	50.63	54.00	-3.37	peak
2	17265.000	42.14	9.03	51.17	68.30	-17.13	peak



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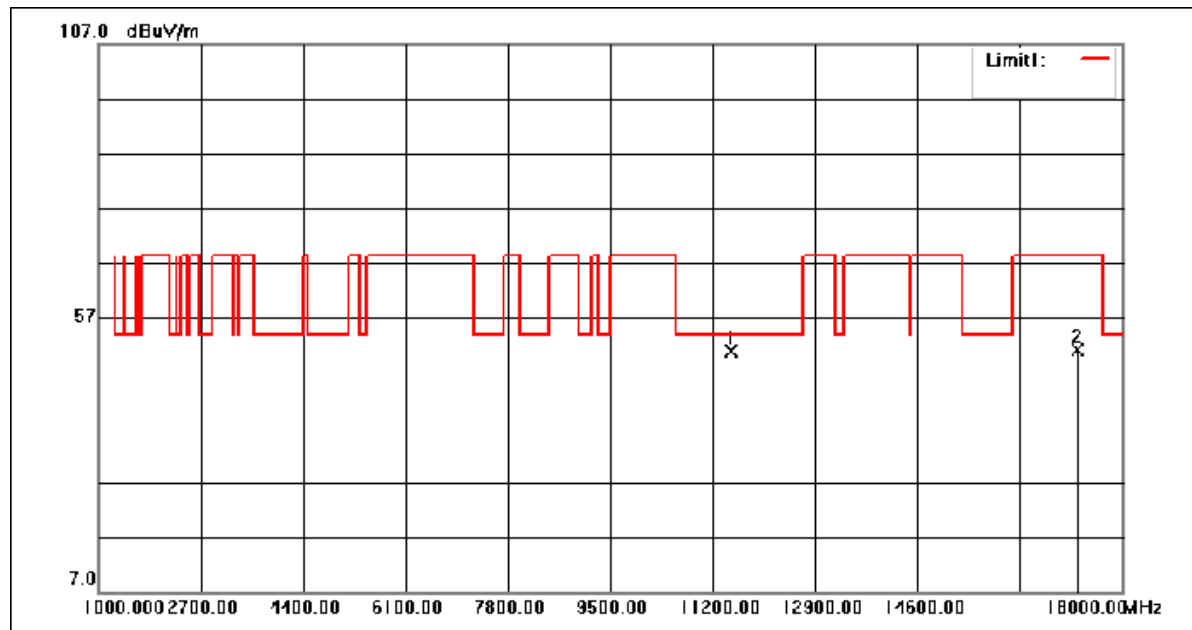
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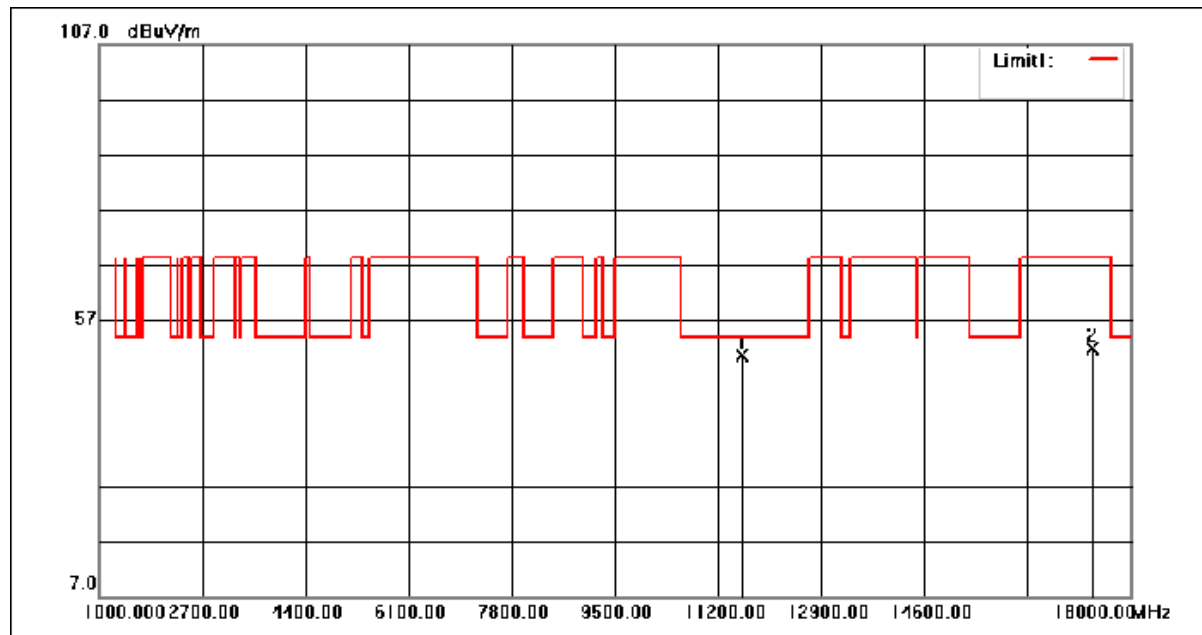
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.96	0.99	50.95	54.00	-3.05	peak
2	17265.000	42.16	9.03	51.19	68.30	-17.11	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.40	1.25	50.65	54.00	-3.35	peak
2	17385.000	42.96	8.96	51.92	68.30	-16.38	peak



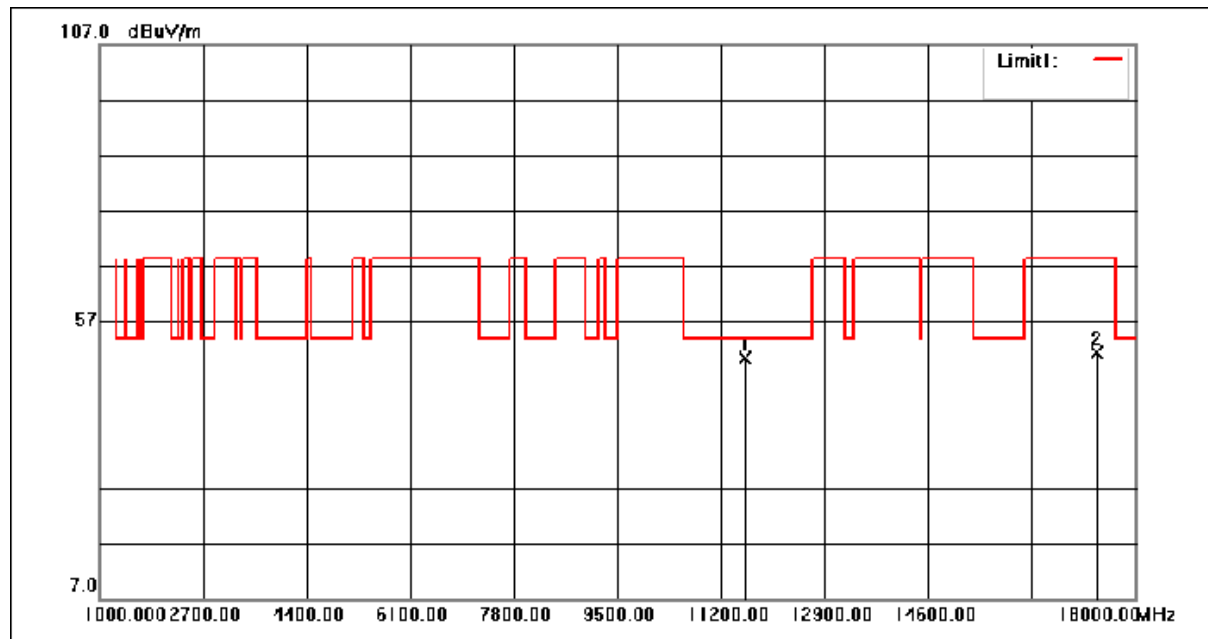
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.21	1.25	50.46	54.00	-3.54	peak
2	17385.000	42.42	8.96	51.38	68.30	-16.92	peak



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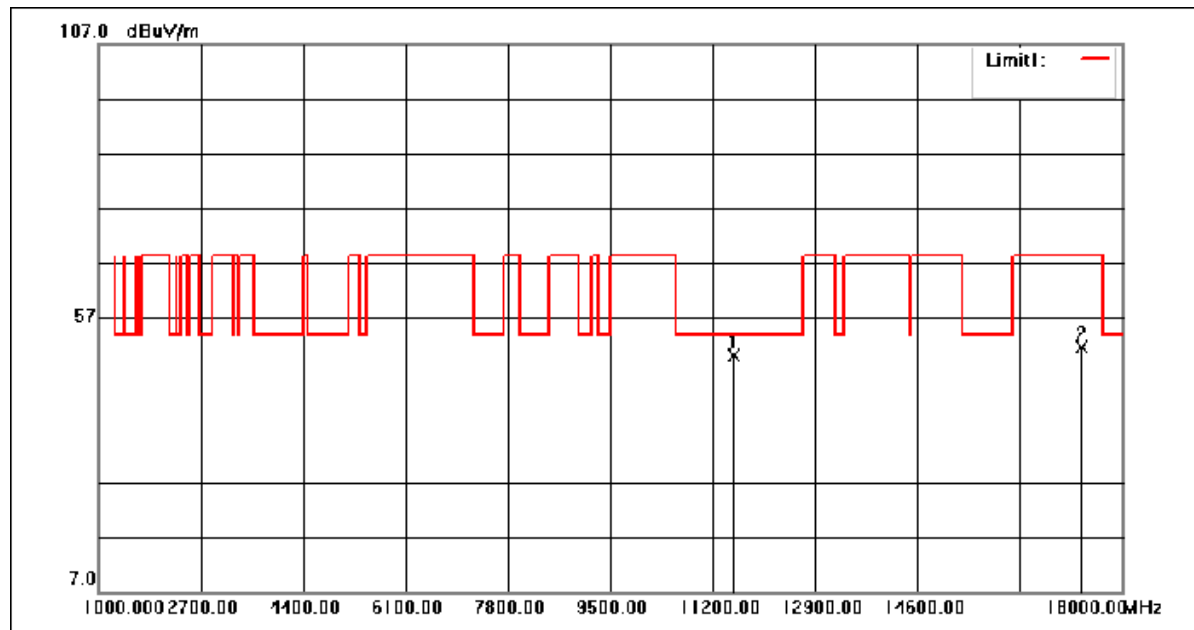
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	49.09	1.12	50.21	54.00	-3.79	peak
2	17325.000	42.53	8.99	51.52	68.30	-16.78	peak



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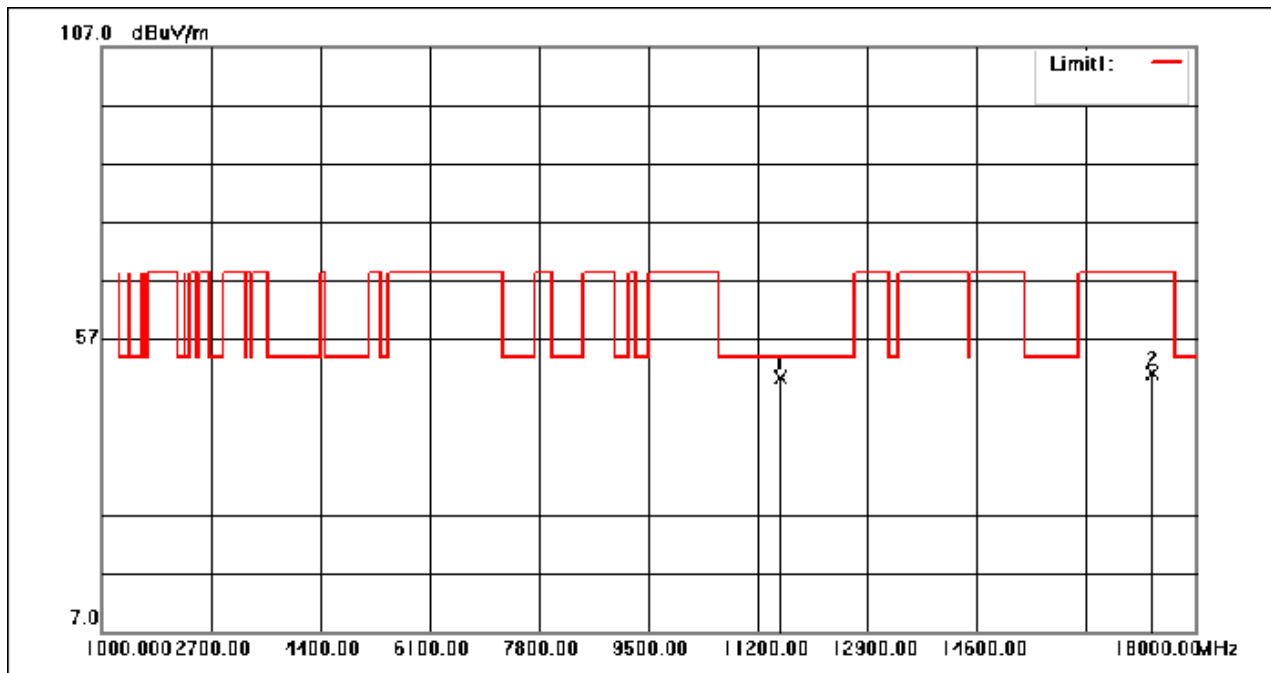
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	49.35	1.12	50.47	54.00	-3.53	peak
2	17325.000	42.04	8.99	51.03	68.30	-17.27	peak



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7.9 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

Limit:

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

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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7.9.1 E.U.T. Operation

Operating Environment:

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

Test mode: b:TX mode (Band 1)_Powered by AC 24V and 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:TX mode (Band 2A)_Powered by AC 24V and 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.

d:TX mode (Band 2C)_Powered by AC 24V and 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.

e:TX mode (Band 3)_Powered by AC 24V and 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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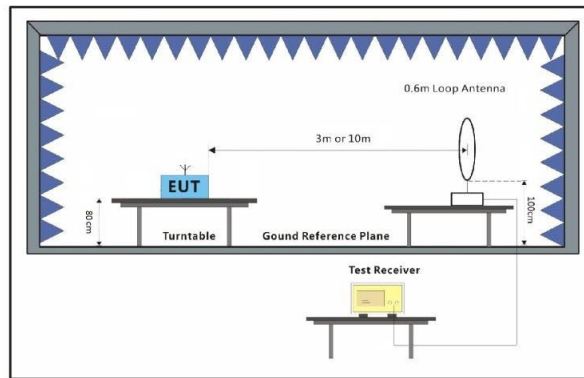
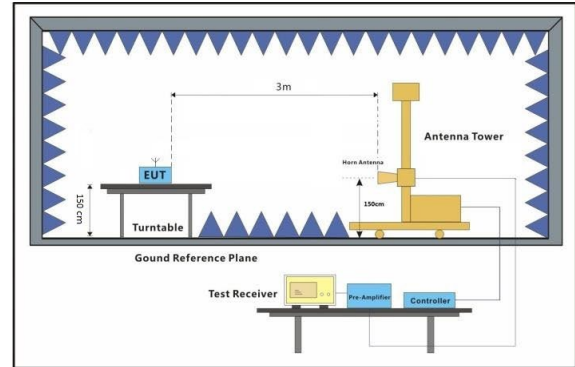
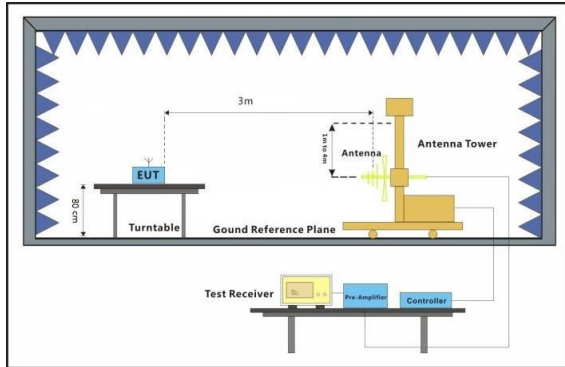
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7.9.2 Test Setup Diagram



7.9.3 Measurement Procedure and Data

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

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

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

Remark 3: 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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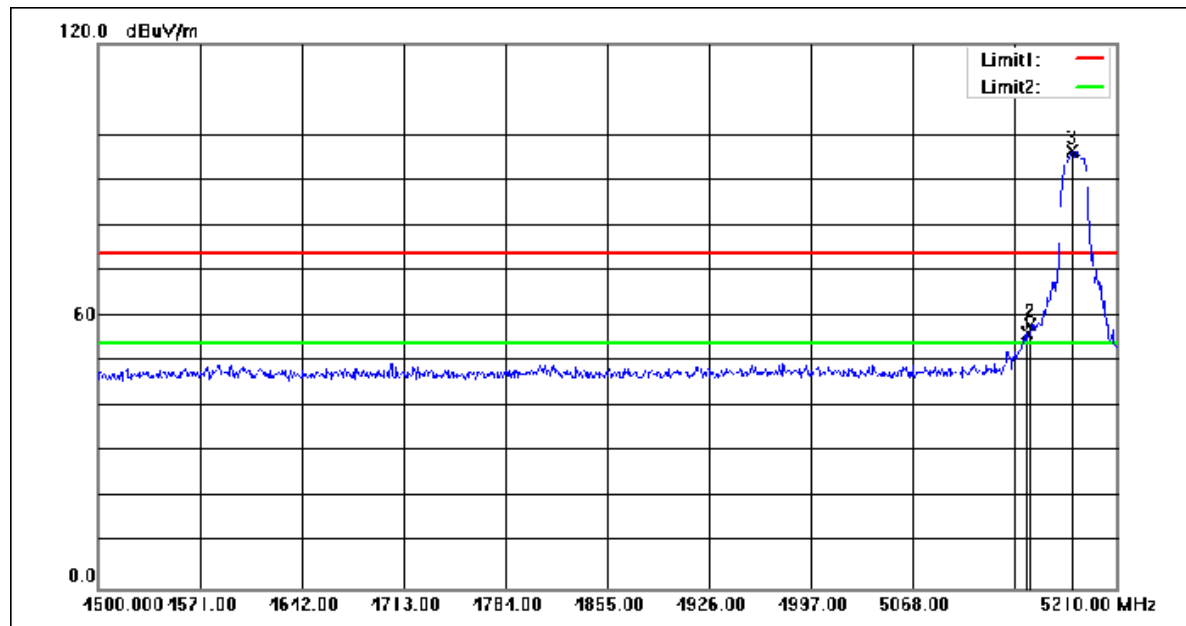
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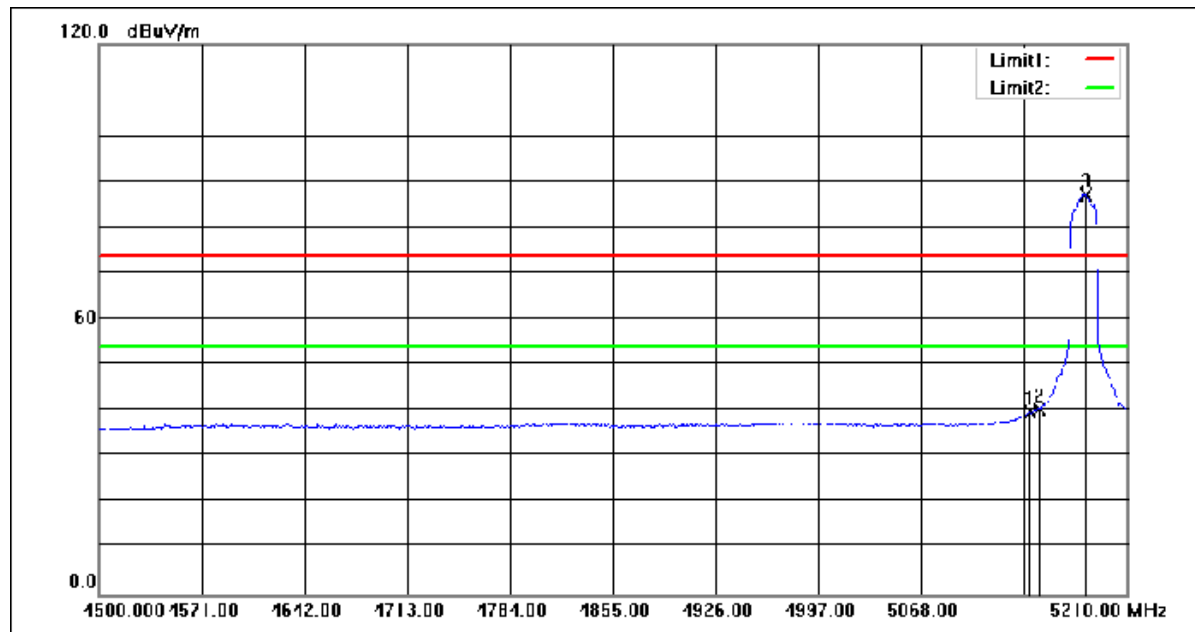
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Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



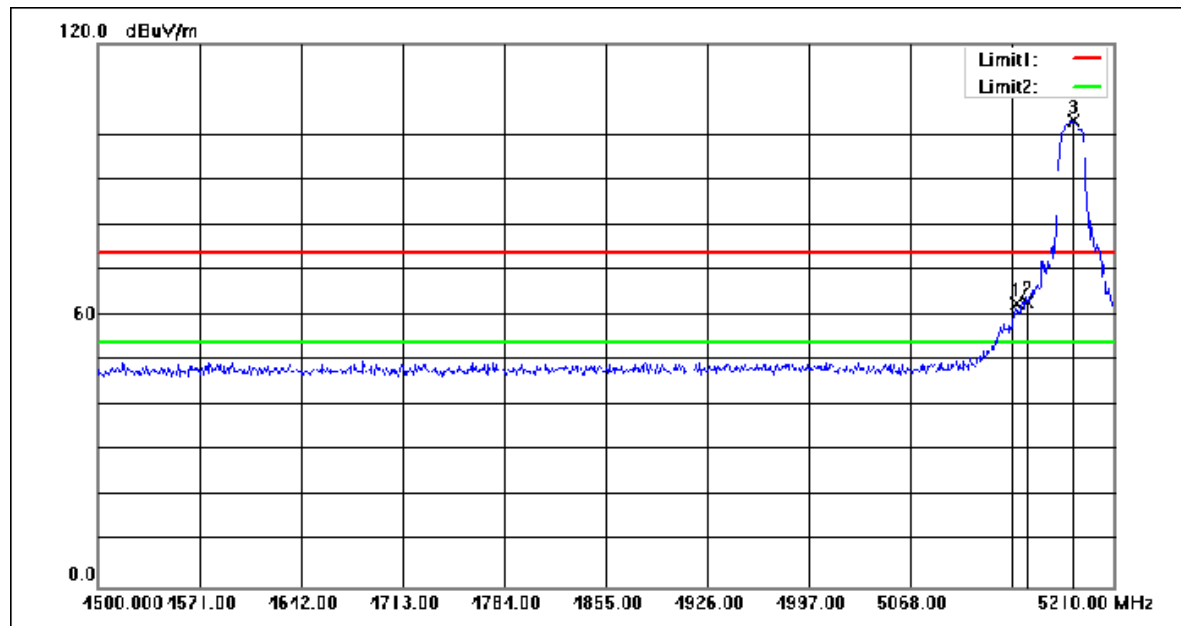
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1	5148.230	63.97	-7.84	56.13	74.00	-17.87	peak
2	5150.000	65.88	-7.84	58.04	74.00	-15.96	peak
3	5179.470	104.22	-7.77	96.45	74.00	22.45	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.260	47.47	-7.86	39.61	54.00	-14.39	AVG
2	5150.000	48.20	-7.84	40.36	54.00	-13.64	AVG
3	5181.600	94.92	-7.77	87.15	54.00	33.15	AVG

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	5142.550	70.43	-7.86	62.57	74.00	-11.43	peak
2	5150.000	70.61	-7.84	62.77	74.00	-11.23	peak
3	5182.310	110.96	-7.77	103.19	74.00	29.19	peak



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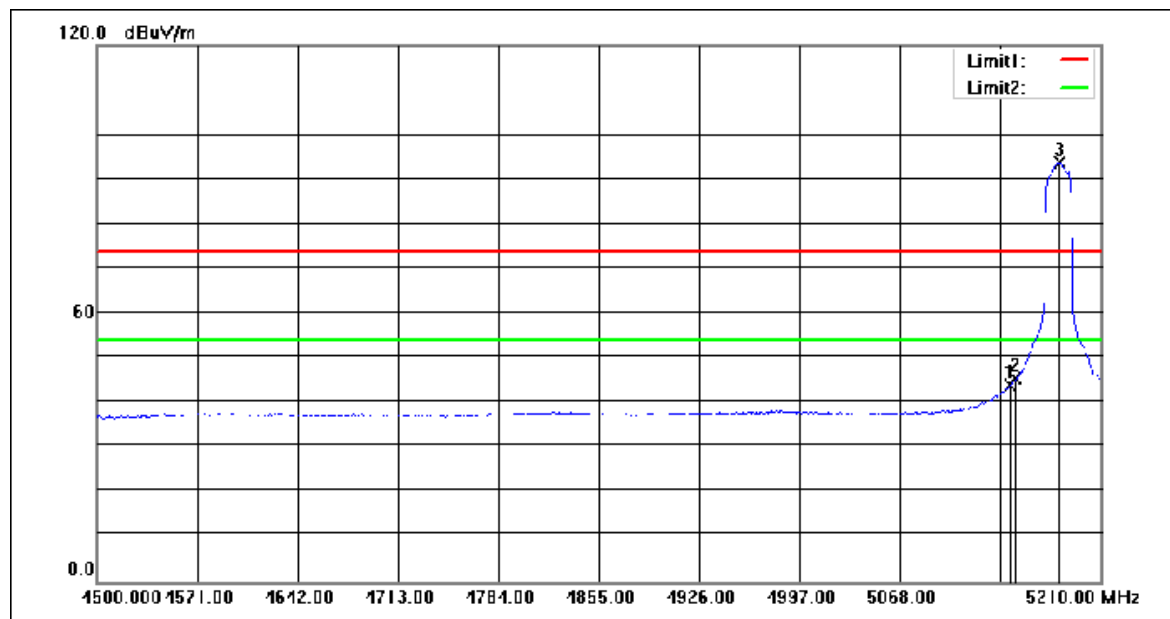
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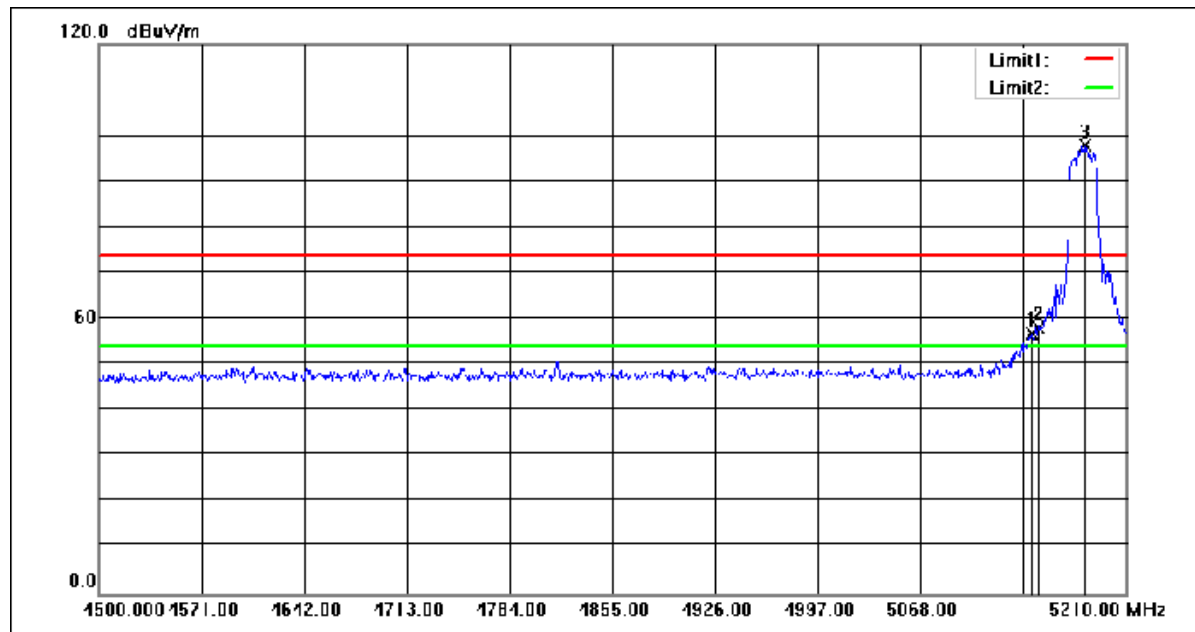
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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



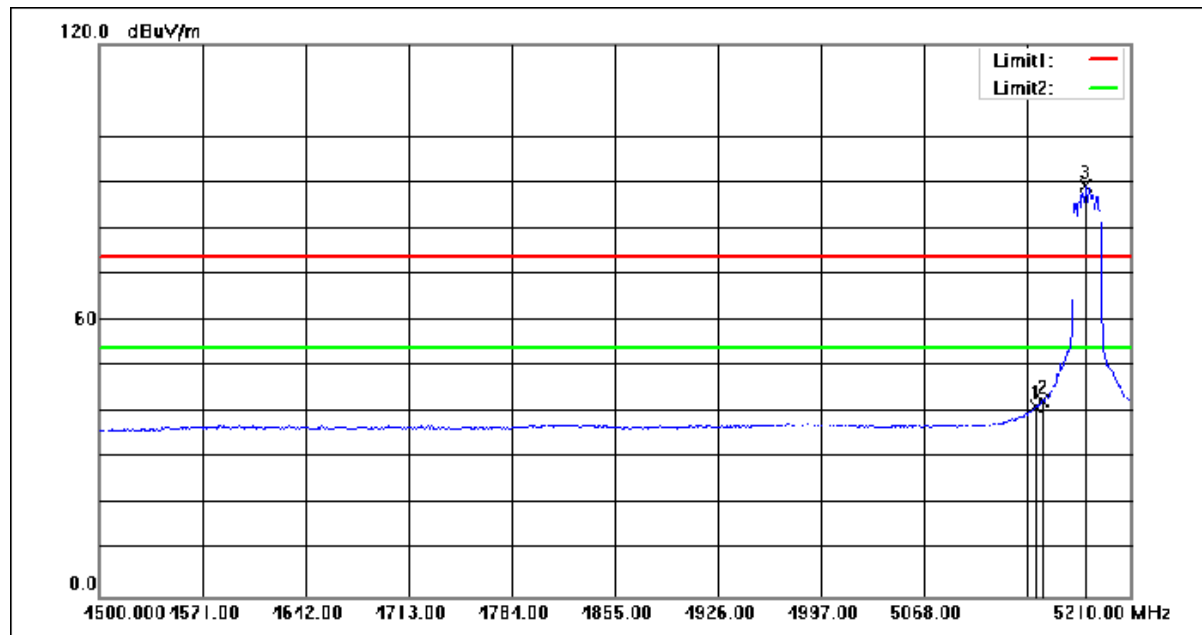
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.100	51.76	-7.85	43.91	54.00	-10.09	AVG
2	5150.000	53.21	-7.84	45.37	54.00	-8.63	AVG
3	5180.890	101.54	-7.77	93.77	54.00	39.77	AVG

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5144.680	64.84	-7.85	56.99	74.00	-17.01	peak
2	5150.000	65.86	-7.84	58.02	74.00	-15.98	peak
3	5182.310	105.70	-7.77	97.93	74.00	23.93	peak

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	5145.390	49.07	-7.85	41.22	54.00	-12.78	AVG
2	5150.000	50.36	-7.84	42.52	54.00	-11.48	AVG
3	5179.470	96.96	-7.77	89.19	54.00	35.19	AVG



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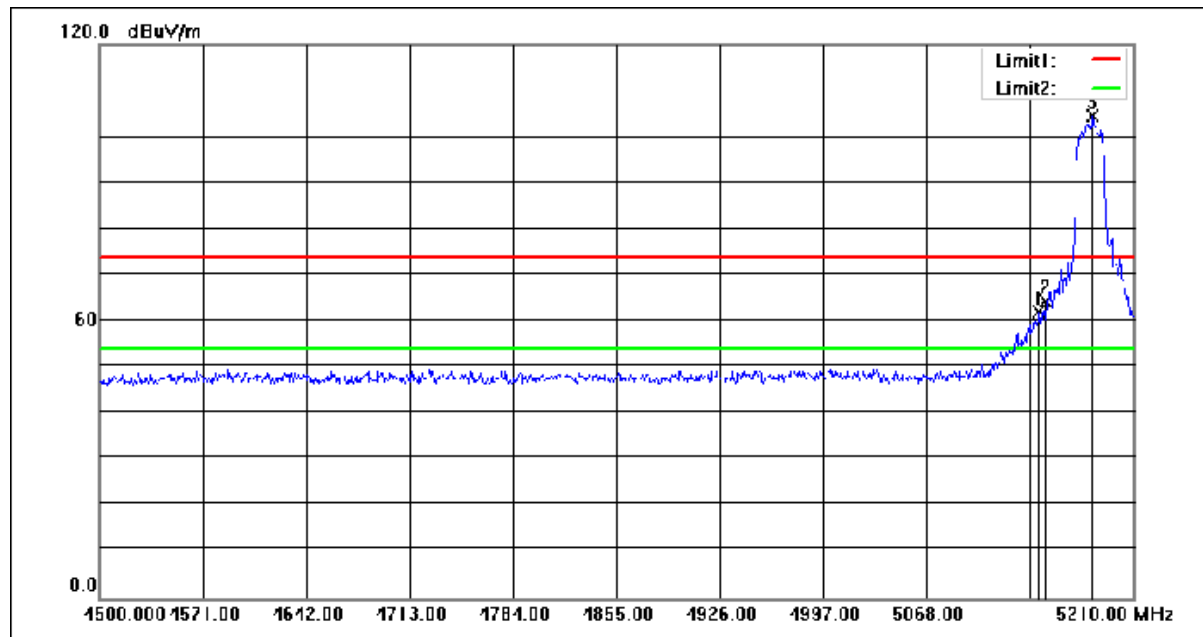
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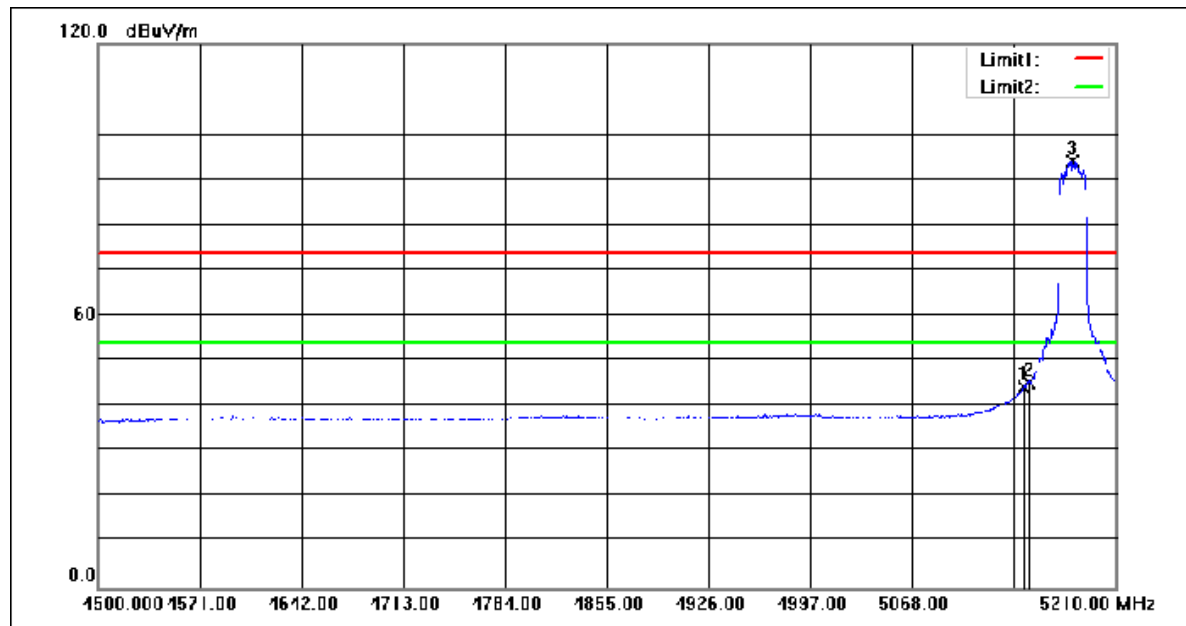
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5145.390	69.86	-7.85	62.01	74.00	-11.99	peak
2	5150.000	72.18	-7.84	64.34	74.00	-9.66	peak
3	5182.310	112.30	-7.77	104.53	74.00	30.53	peak

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	52.04	-7.85	44.19	54.00	-9.81	AVG
2	5150.000	52.94	-7.84	45.10	54.00	-8.90	AVG
3	5180.180	101.93	-7.77	94.16	54.00	40.16	AVG



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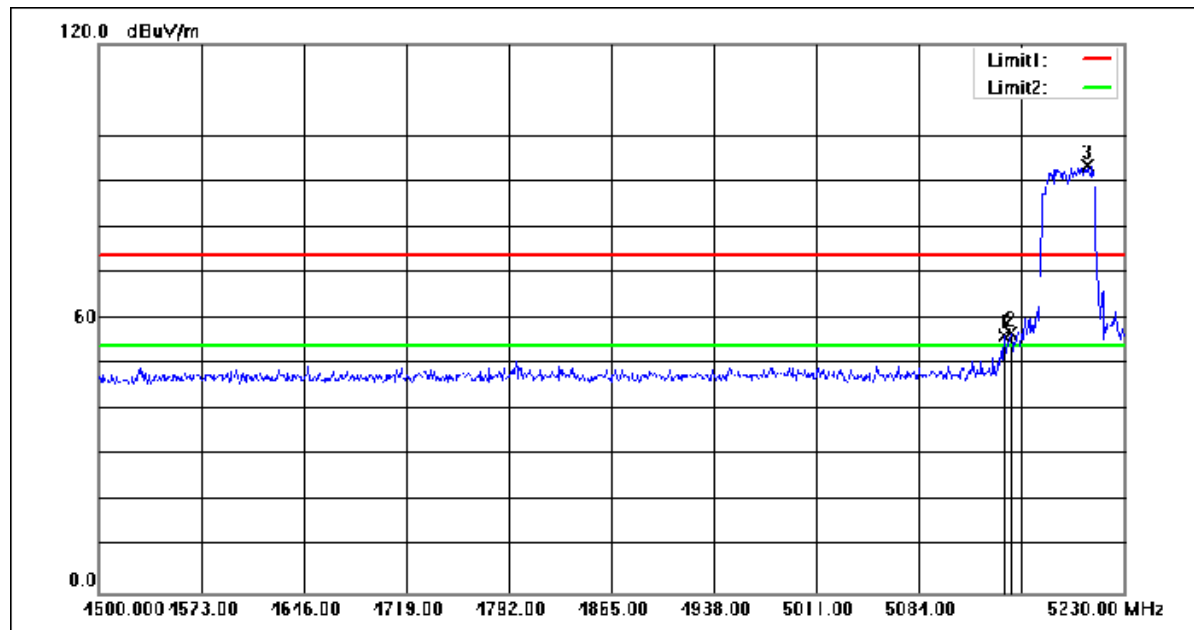
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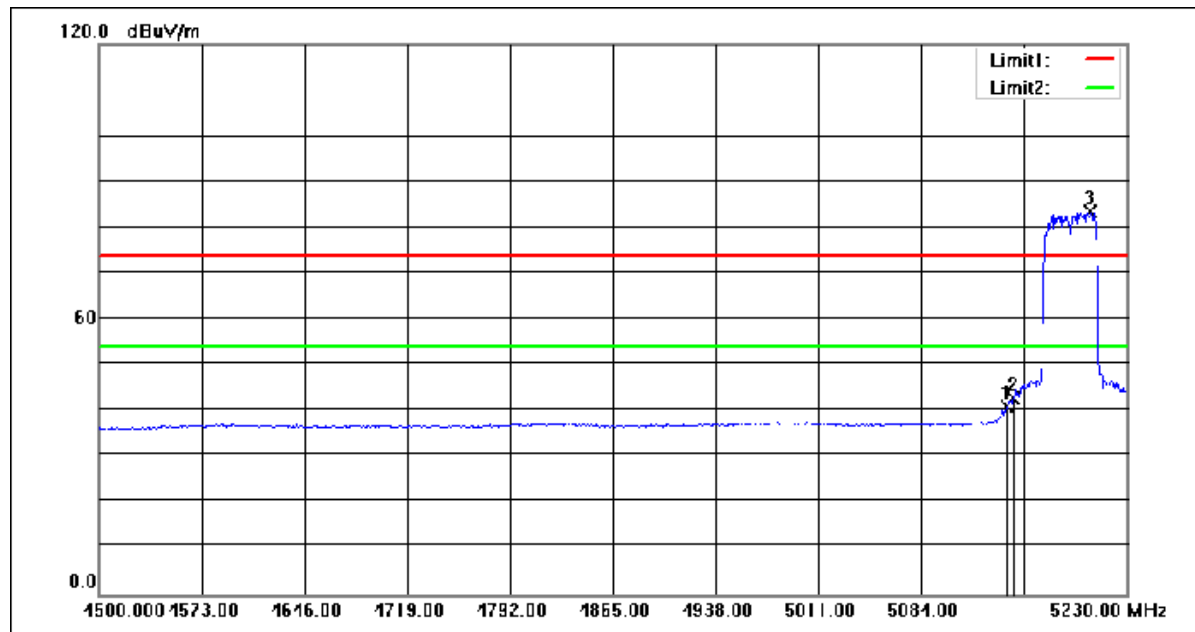
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



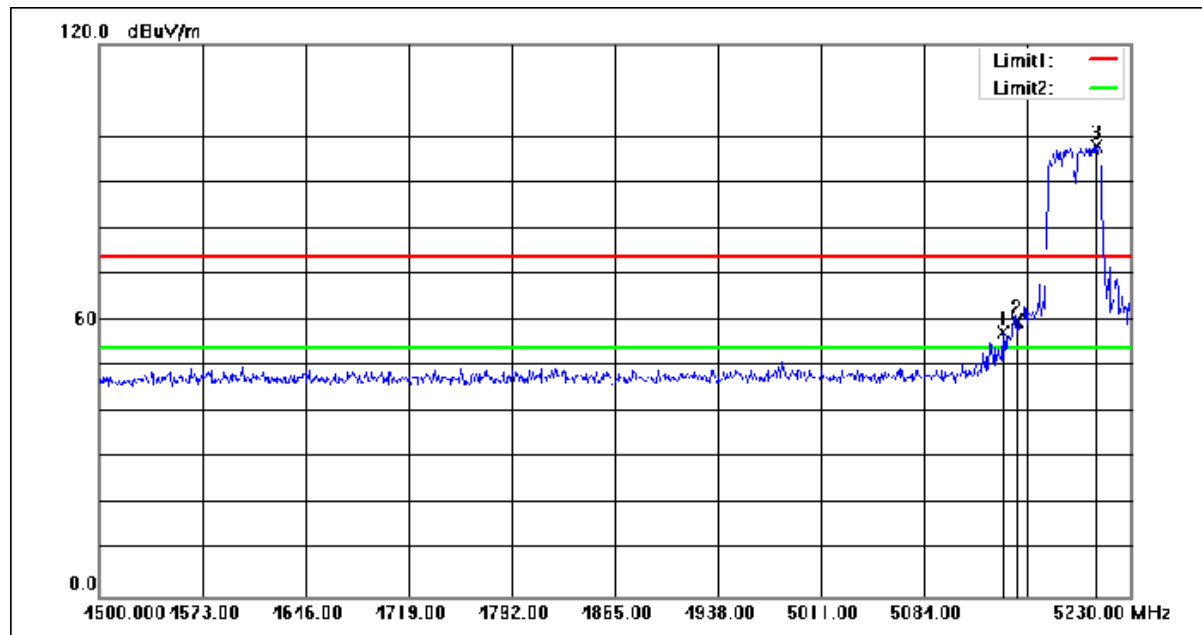
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5144.590	64.08	-7.85	56.23	74.00	-17.77	peak
2	5150.000	64.71	-7.84	56.87	74.00	-17.13	peak
3	5203.720	101.27	-7.71	93.56	74.00	19.56	peak

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



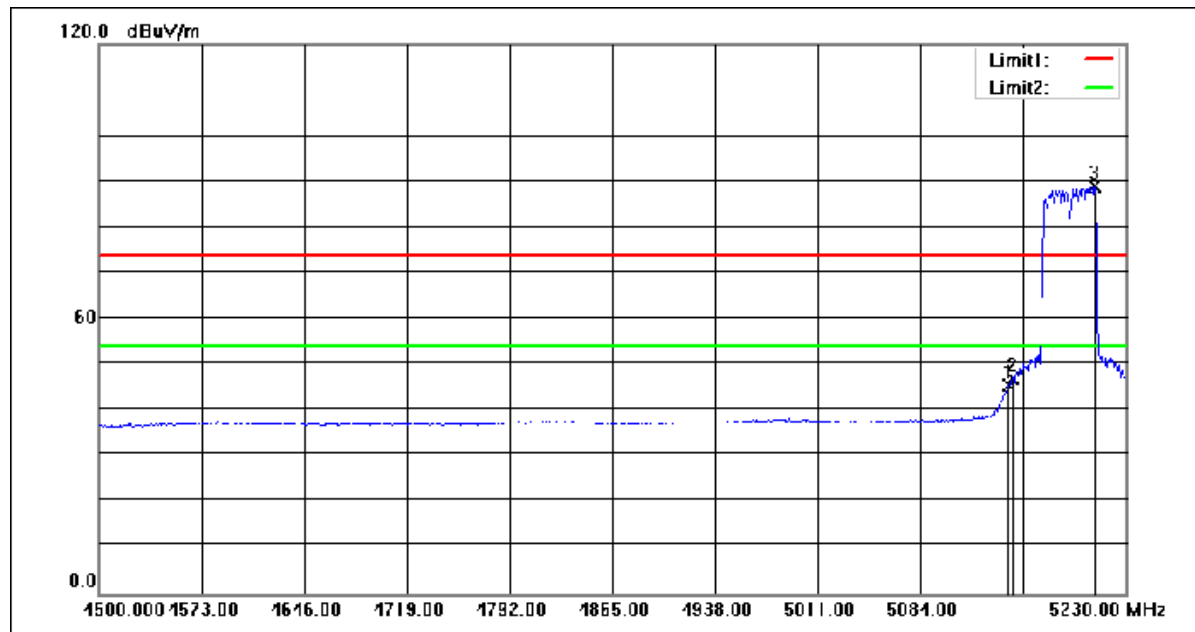
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5144.590	48.87	-7.85	41.02	54.00	-12.98	AVG
2	5150.000	50.49	-7.84	42.65	54.00	-11.35	AVG
3	5204.450	91.27	-7.71	83.56	54.00	29.56	AVG

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



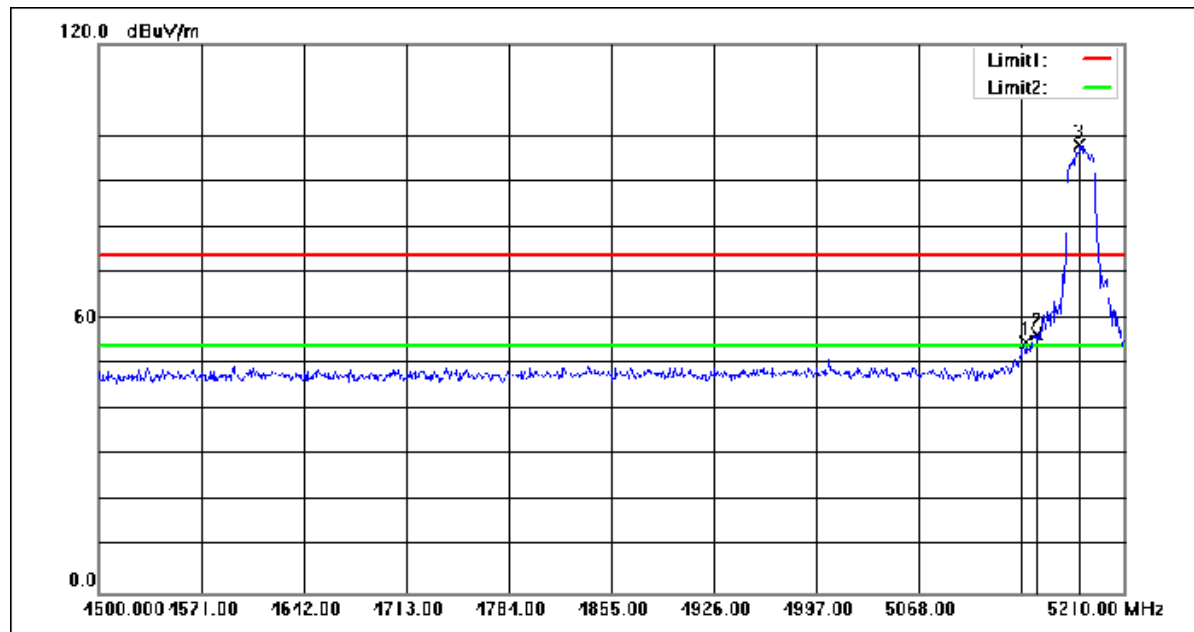
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1	5139.480	65.36	-7.87	57.49	74.00	-16.51	peak
2	5150.000	67.82	-7.84	59.98	74.00	-14.02	peak
3	5205.910	105.54	-7.71	97.83	74.00	23.83	peak

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



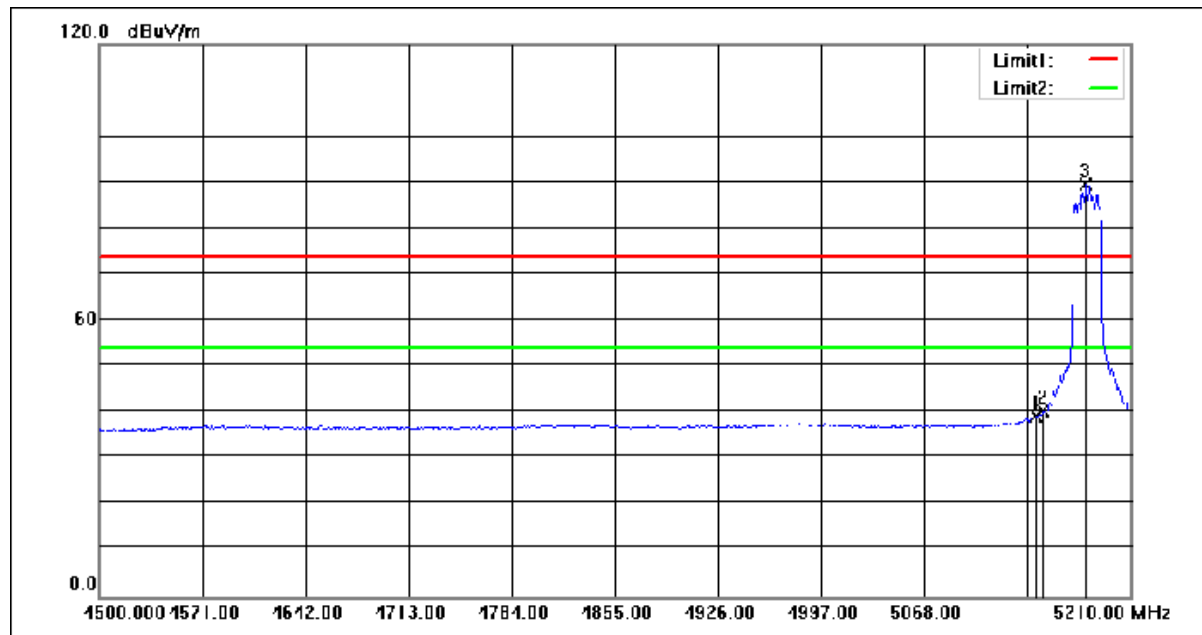
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.780	53.31	-7.85	45.46	54.00	-8.54	AVG
2	5150.000	54.75	-7.84	46.91	54.00	-7.09	AVG
3	5208.100	96.54	-7.70	88.84	54.00	34.84	AVG

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	5142.550	62.62	-7.86	54.76	74.00	-19.24	peak
2	5150.000	64.44	-7.84	56.60	74.00	-17.40	peak
3	5179.470	105.84	-7.77	98.07	74.00	24.07	peak

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	5145.390	46.88	-7.85	39.03	54.00	-14.97	AVG
2	5150.000	48.16	-7.84	40.32	54.00	-13.68	AVG
3	5179.470	97.22	-7.77	89.45	54.00	35.45	AVG



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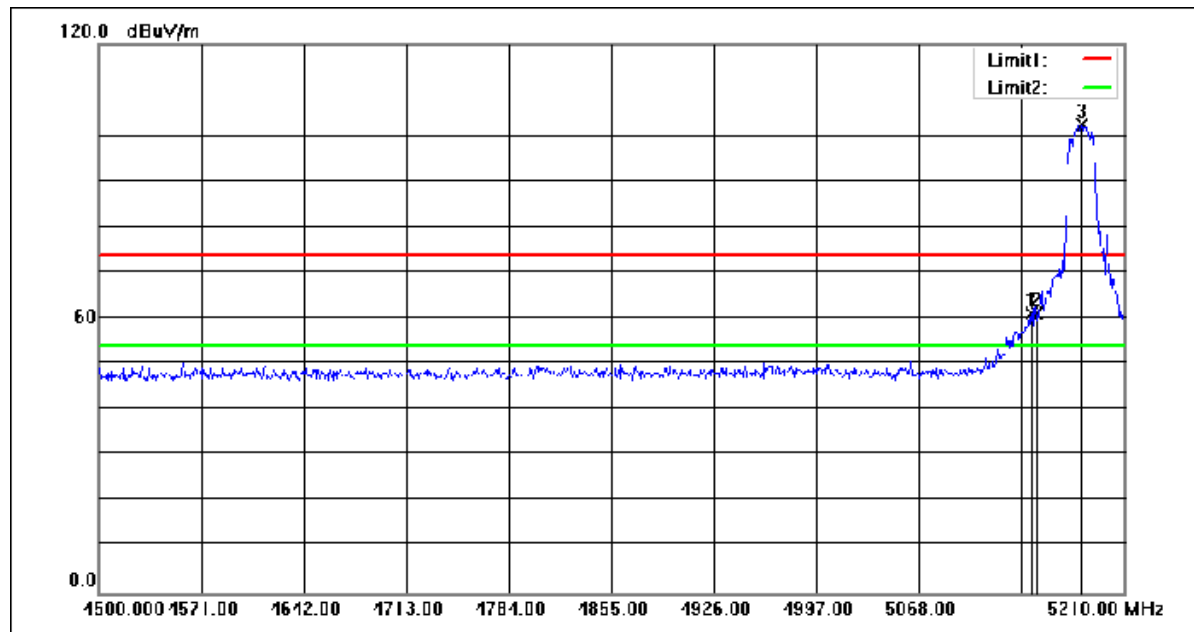
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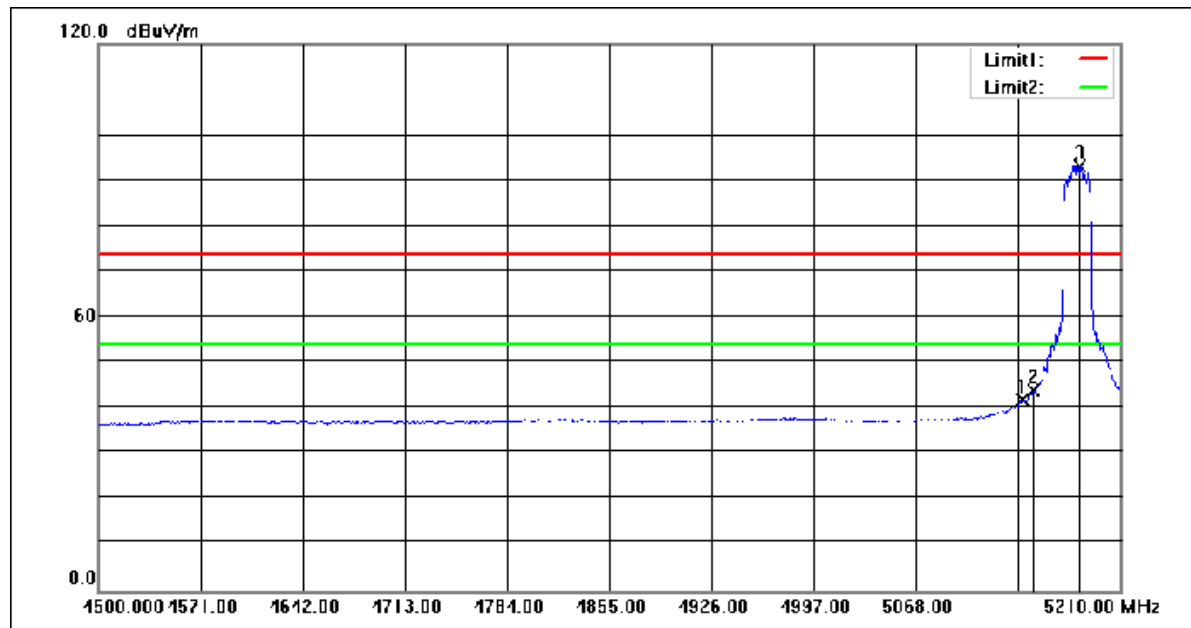
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



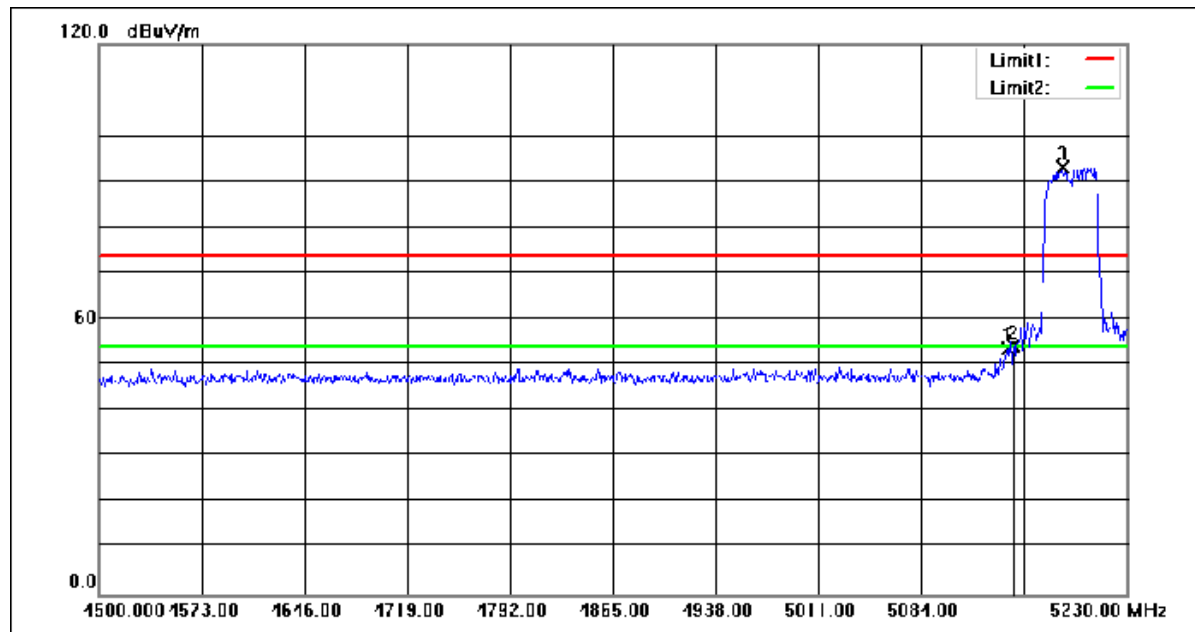
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.100	69.00	-7.85	61.15	74.00	-12.85	peak
2	5150.000	69.01	-7.84	61.17	74.00	-12.83	peak
3	5180.890	110.30	-7.77	102.53	74.00	28.53	peak

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



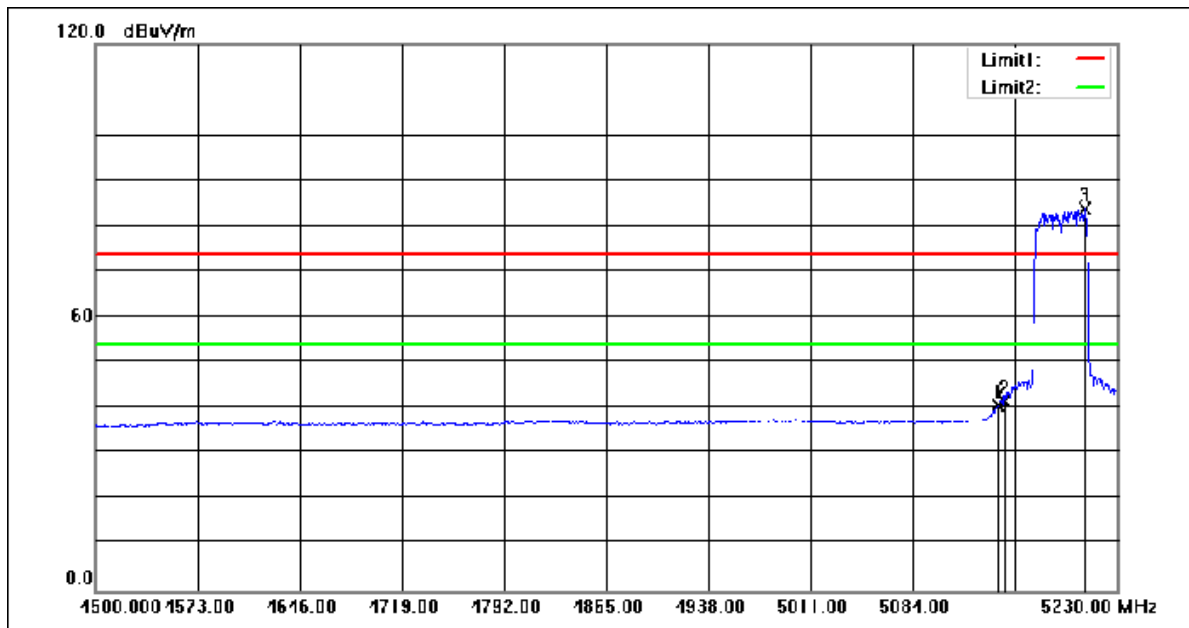
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.550	49.64	-7.86	41.78	54.00	-12.22	AVG
2	5150.000	51.71	-7.84	43.87	54.00	-10.13	AVG
3	5182.310	101.06	-7.77	93.29	54.00	39.29	AVG

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	5145.320	61.39	-7.85	53.54	74.00	-20.46	peak
2	5150.000	61.95	-7.84	54.11	74.00	-19.89	peak
3	5184.740	100.88	-7.76	93.12	74.00	19.12	peak

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	5144.590	48.62	-7.85	40.77	54.00	-13.23	AVG
2	5150.000	49.36	-7.84	41.52	54.00	-12.48	AVG
3	5206.640	91.43	-7.70	83.73	54.00	29.73	AVG



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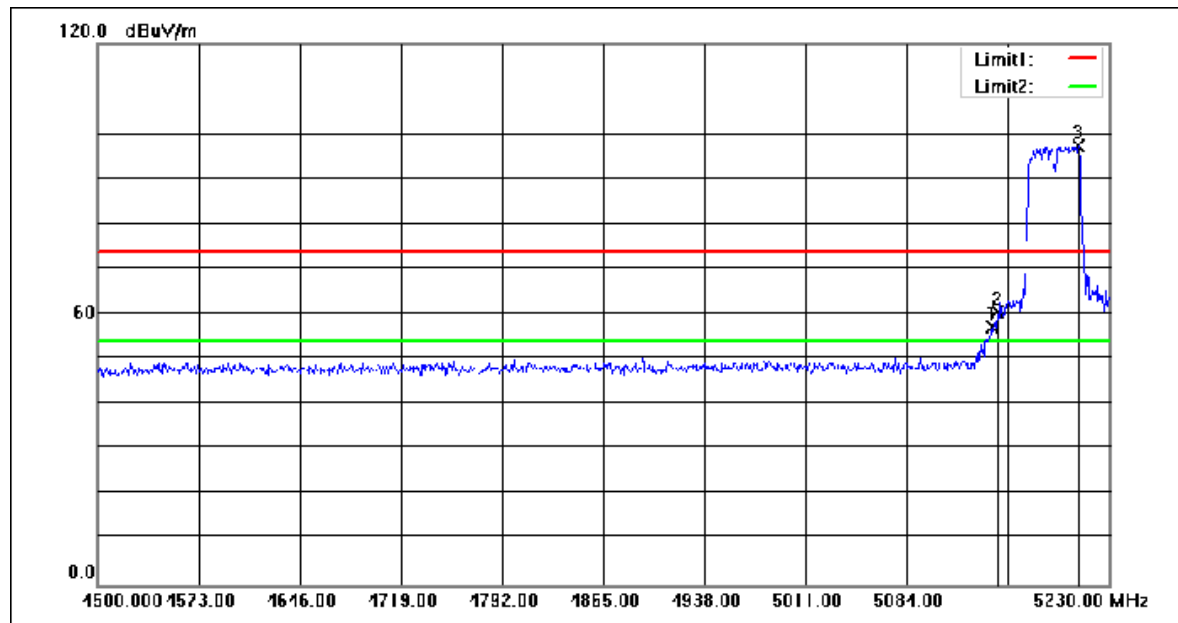
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5145.320	65.14	-7.85	57.29	74.00	-16.71	peak
2	5150.000	68.27	-7.84	60.43	74.00	-13.57	peak
3	5208.100	105.04	-7.70	97.34	74.00	23.34	peak



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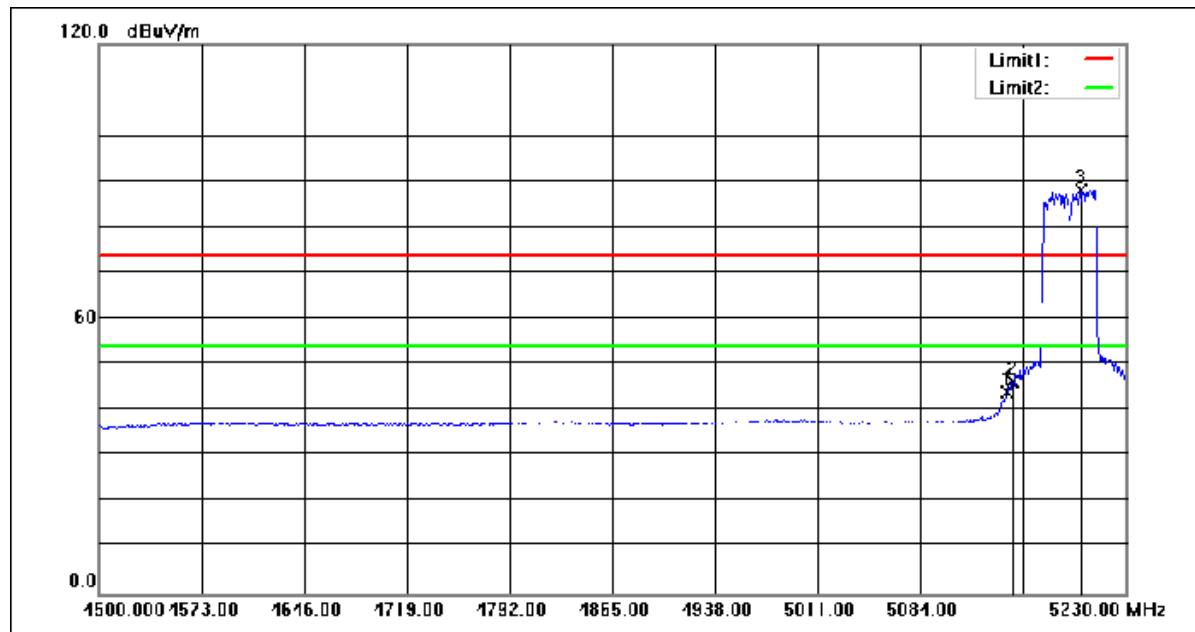
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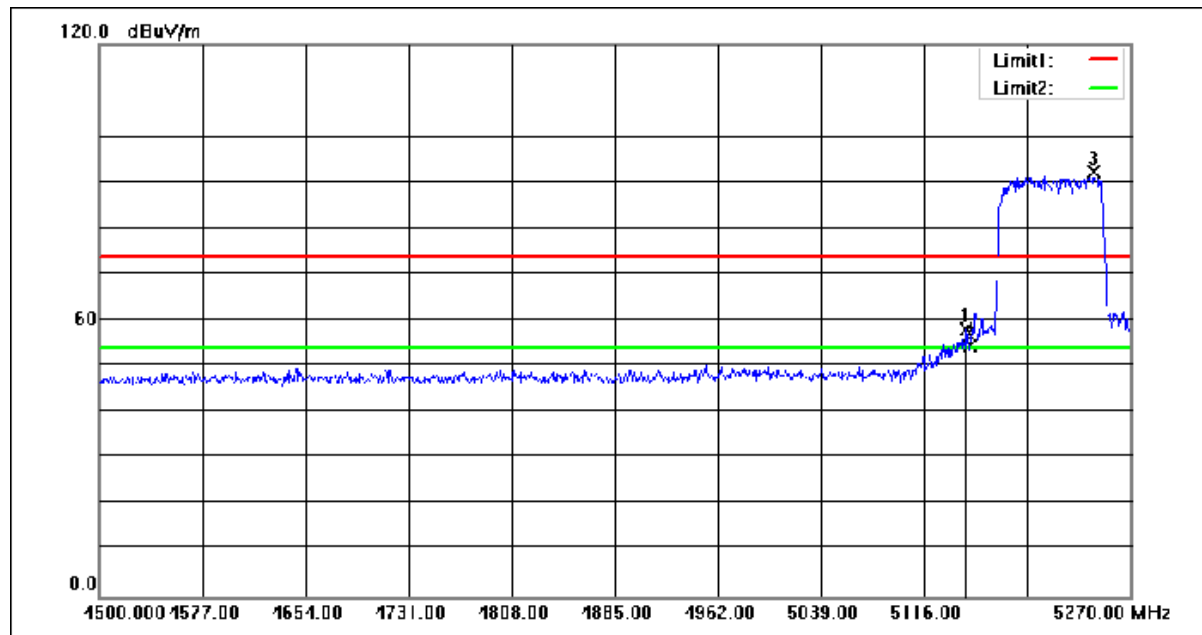
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



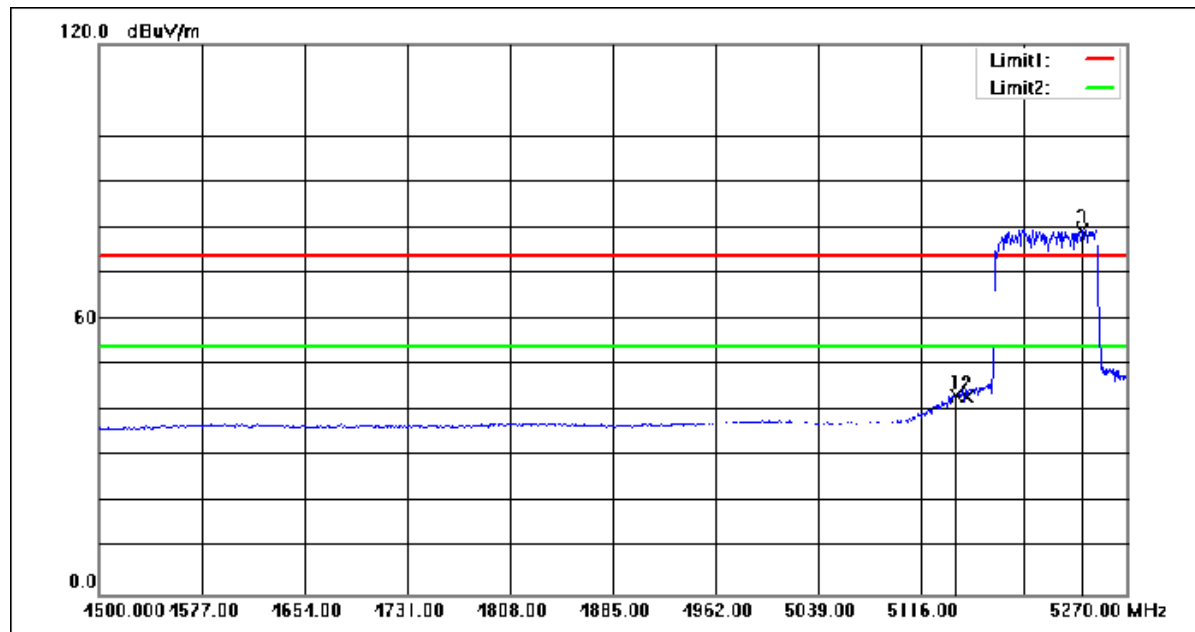
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5145.320	51.71	-7.85	43.86	54.00	-10.14	AVG
2	5150.000	54.28	-7.84	46.44	54.00	-7.56	AVG
3	5197.880	95.91	-7.74	88.17	54.00	34.17	AVG

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



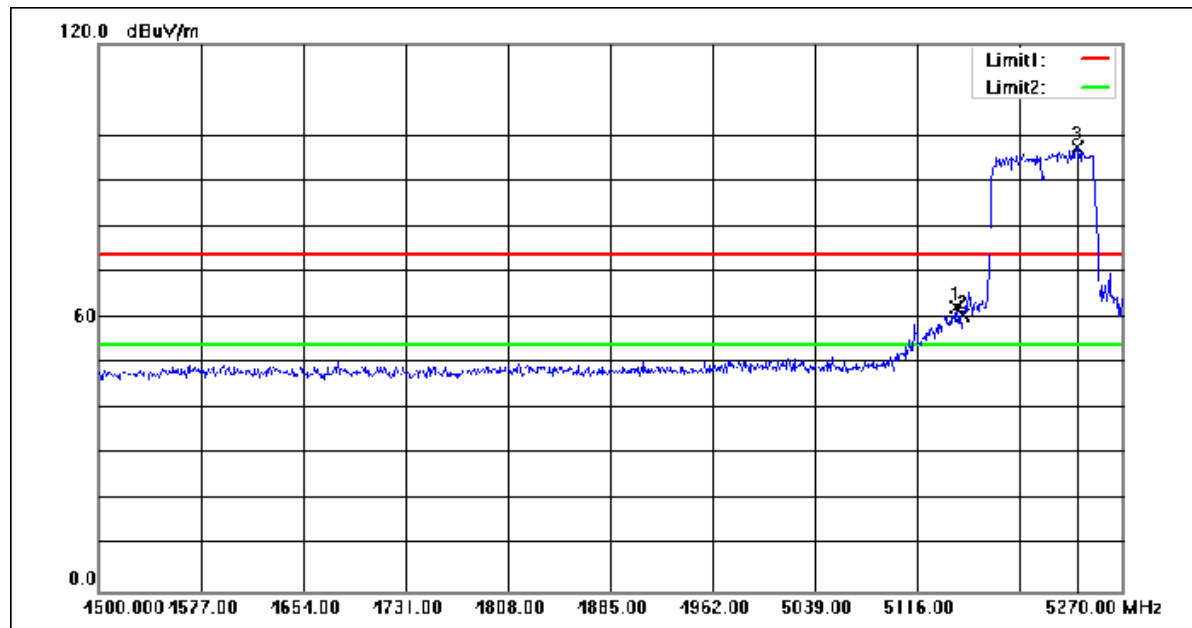
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5147.570	65.90	-7.85	58.05	74.00	-15.95	peak
2	5150.000	62.42	-7.84	54.58	74.00	-19.42	peak
3	5242.280	99.78	-7.56	92.22	74.00	18.22	peak

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	5142.180	51.33	-7.86	43.47	54.00	-10.53	AVG
2	5150.000	51.00	-7.84	43.16	54.00	-10.84	AVG
3	5236.890	87.05	-7.59	79.46	54.00	25.46	AVG

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	5145.260	70.07	-7.85	62.22	74.00	-11.78	peak
2	5150.000	68.30	-7.84	60.46	74.00	-13.54	peak
3	5236.120	105.01	-7.59	97.42	74.00	23.42	peak



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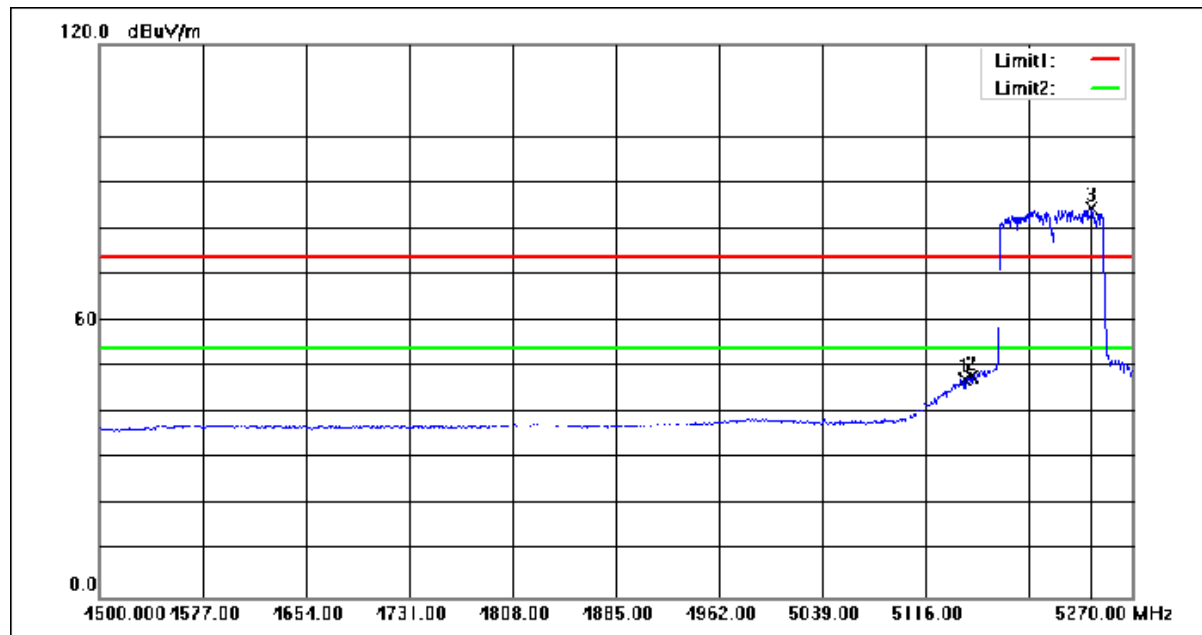
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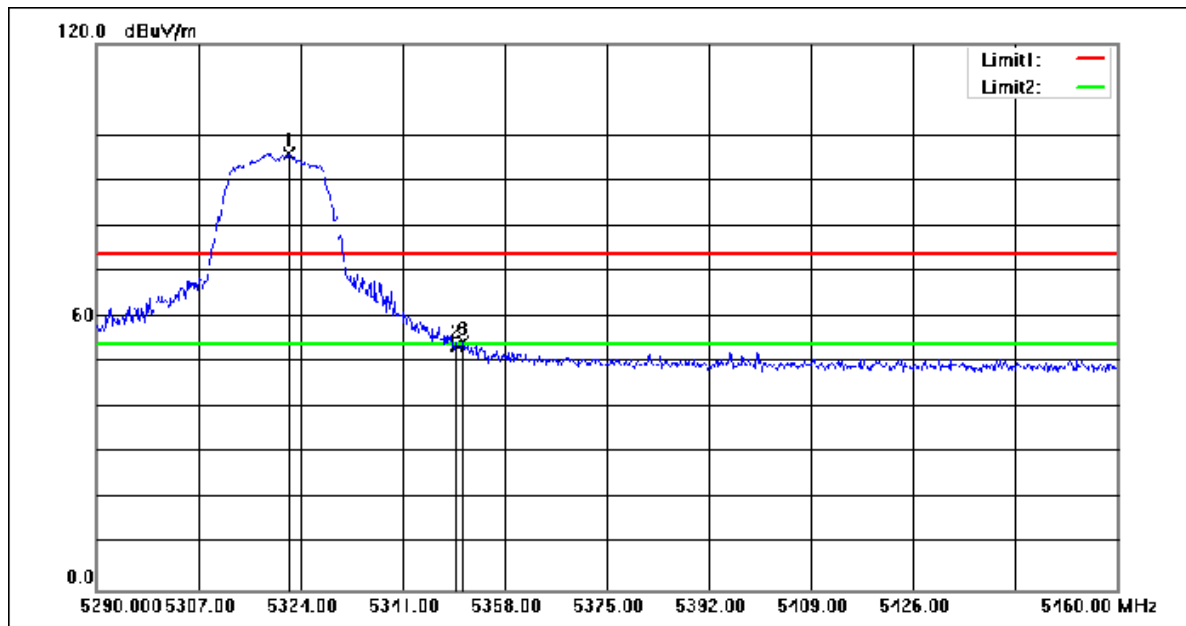
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5145.260	55.10	-7.85	47.25	54.00	-6.75	AVG
2	5150.000	55.56	-7.84	47.72	54.00	-6.28	AVG
3	5239.970	91.89	-7.58	84.31	54.00	30.31	AVG

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	5321.960	103.07	-7.25	95.82	74.00	21.82	peak
2	5350.000	60.89	-7.15	53.74	74.00	-20.26	peak
3	5351.030	61.71	-7.14	54.57	74.00	-19.43	peak



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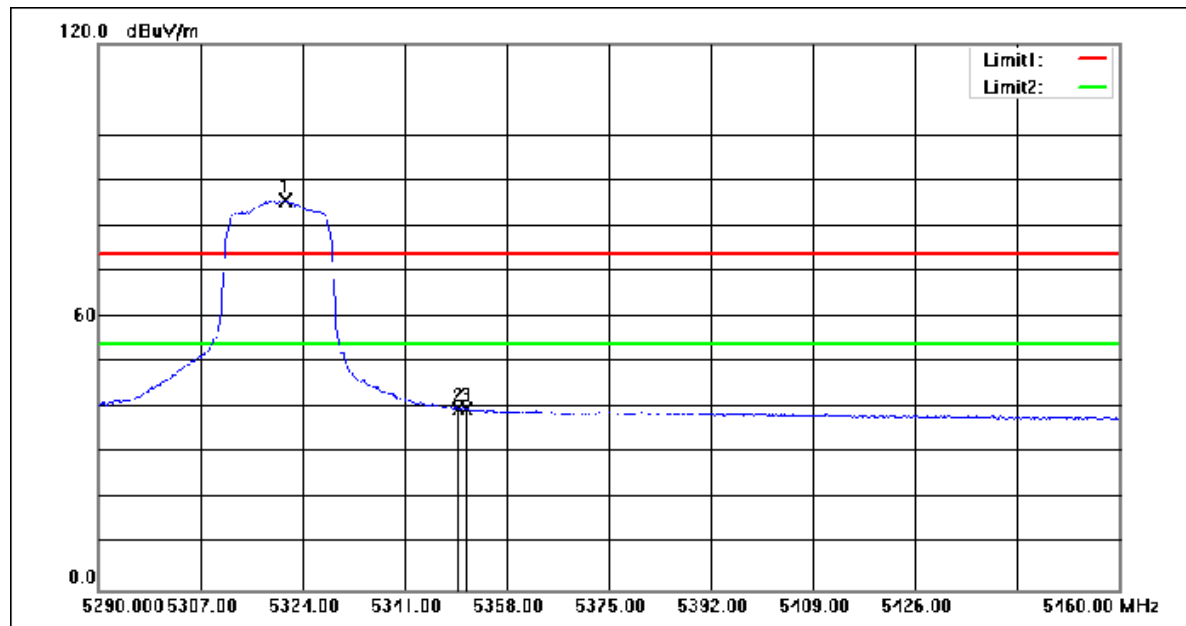
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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5321.110	92.90	-7.26	85.64	54.00	31.64	AVG
2	5350.000	46.92	-7.15	39.77	54.00	-14.23	AVG
3	5351.370	47.01	-7.14	39.87	54.00	-14.13	AVG



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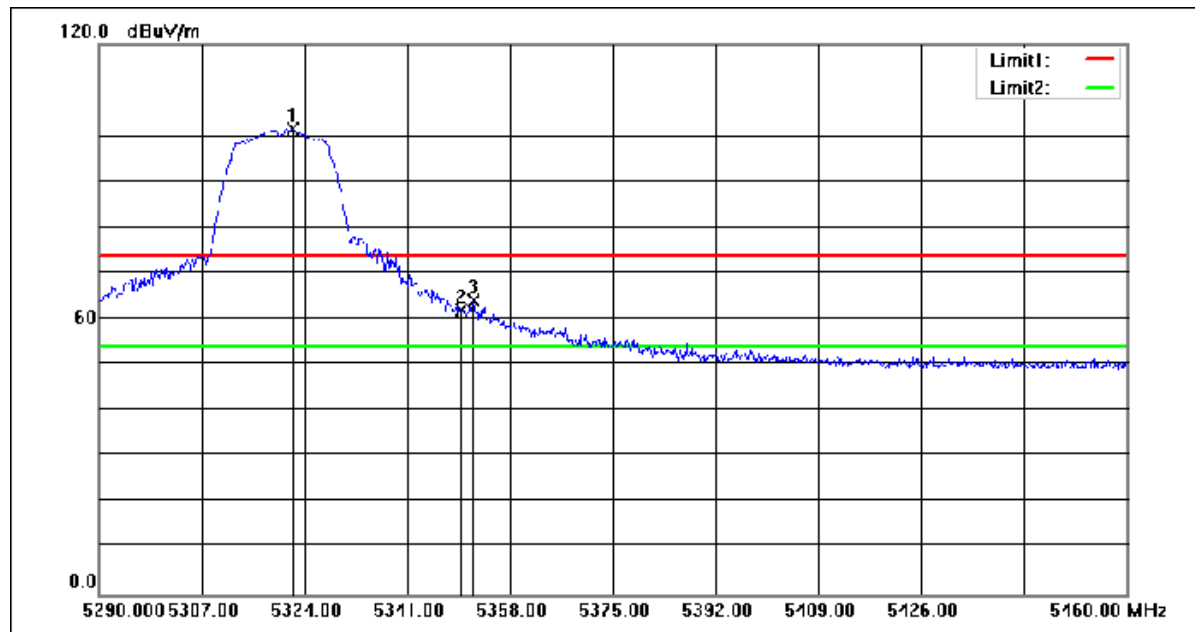
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5321.960	108.88	-7.25	101.63	74.00	27.63	peak
2	5350.000	69.07	-7.15	61.92	74.00	-12.08	peak
3	5351.880	71.32	-7.14	64.18	74.00	-9.82	peak



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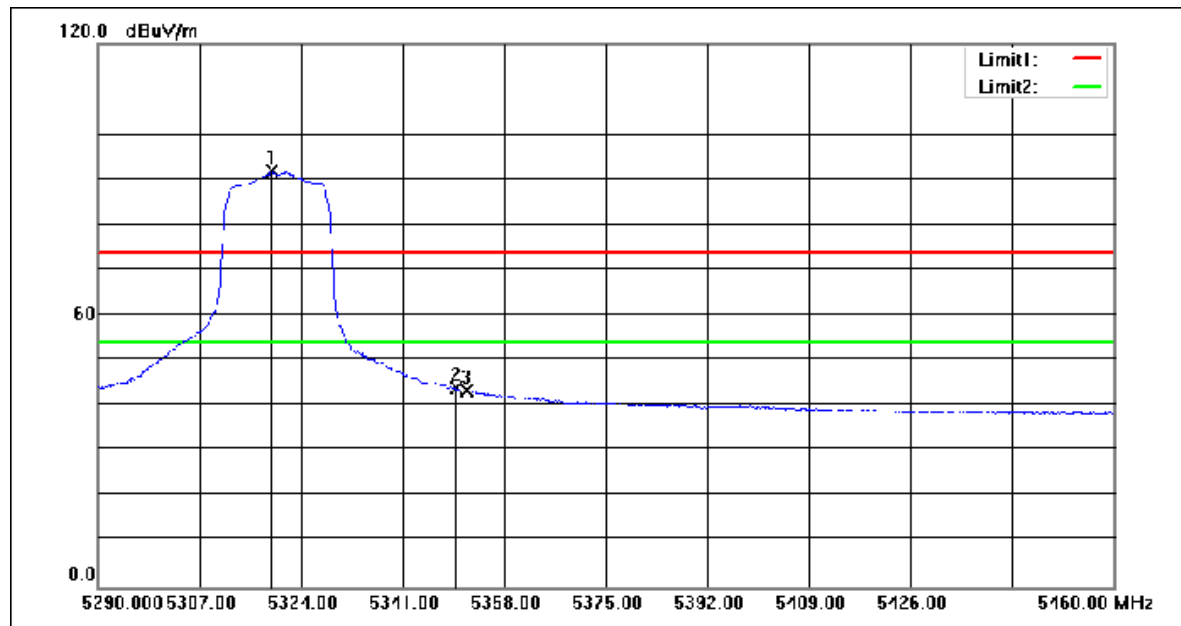
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5319.070	99.10	-7.27	91.83	54.00	37.83	AVG
2	5350.000	51.06	-7.15	43.91	54.00	-10.09	AVG
3	5351.710	50.53	-7.14	43.39	54.00	-10.61	AVG



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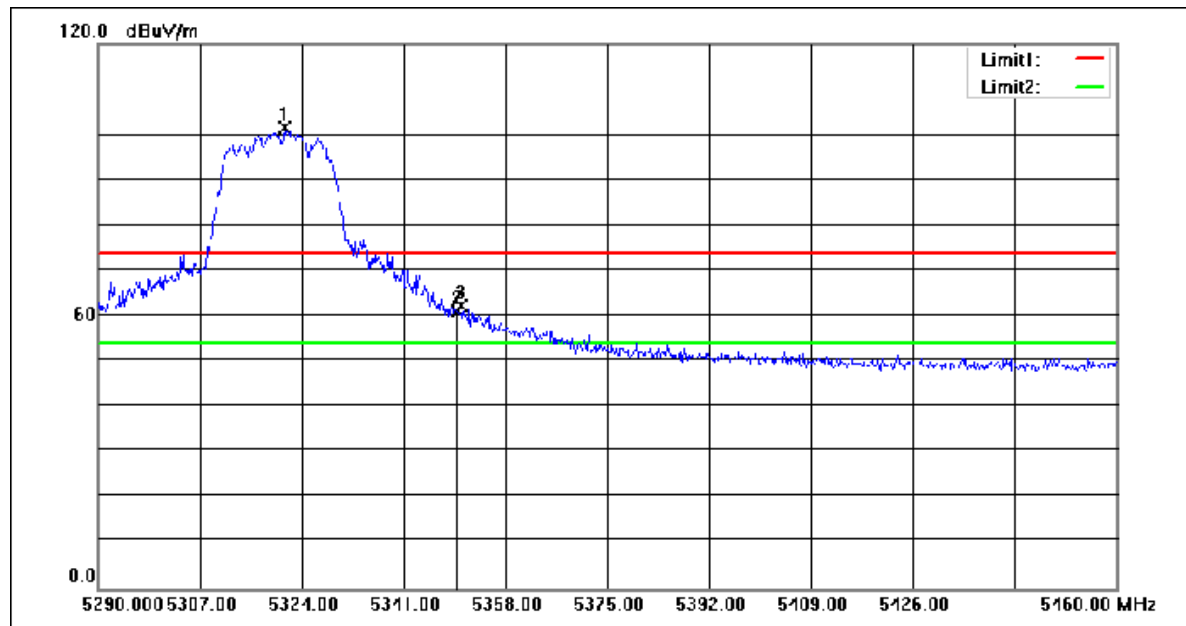
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5321.110	108.91	-7.26	101.65	74.00	27.65	peak
2	5350.000	68.07	-7.15	60.92	74.00	-13.08	peak
3	5350.690	69.27	-7.14	62.13	74.00	-11.87	peak



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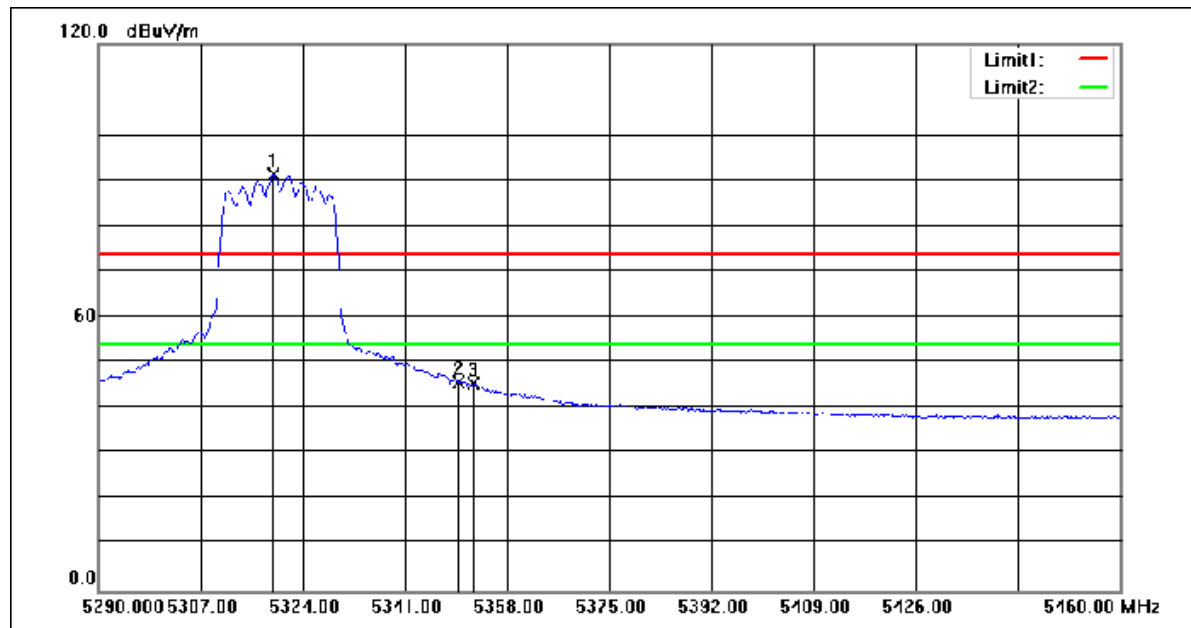
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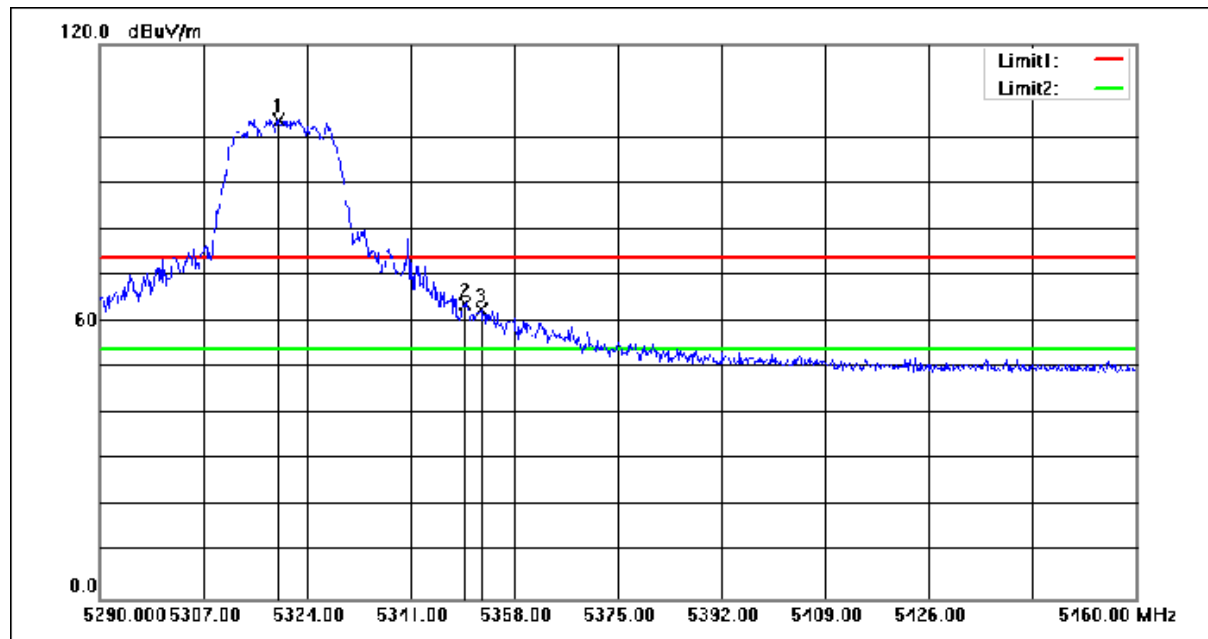
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5319.070	98.58	-7.27	91.31	54.00	37.31	AVG
2	5350.000	52.90	-7.15	45.75	54.00	-8.25	AVG
3	5352.390	52.67	-7.14	45.53	54.00	-8.47	AVG

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	5319.240	111.07	-7.27	103.80	74.00	29.80	peak
2	5350.000	70.80	-7.15	63.65	74.00	-10.35	peak
3	5352.560	69.71	-7.14	62.57	74.00	-11.43	peak



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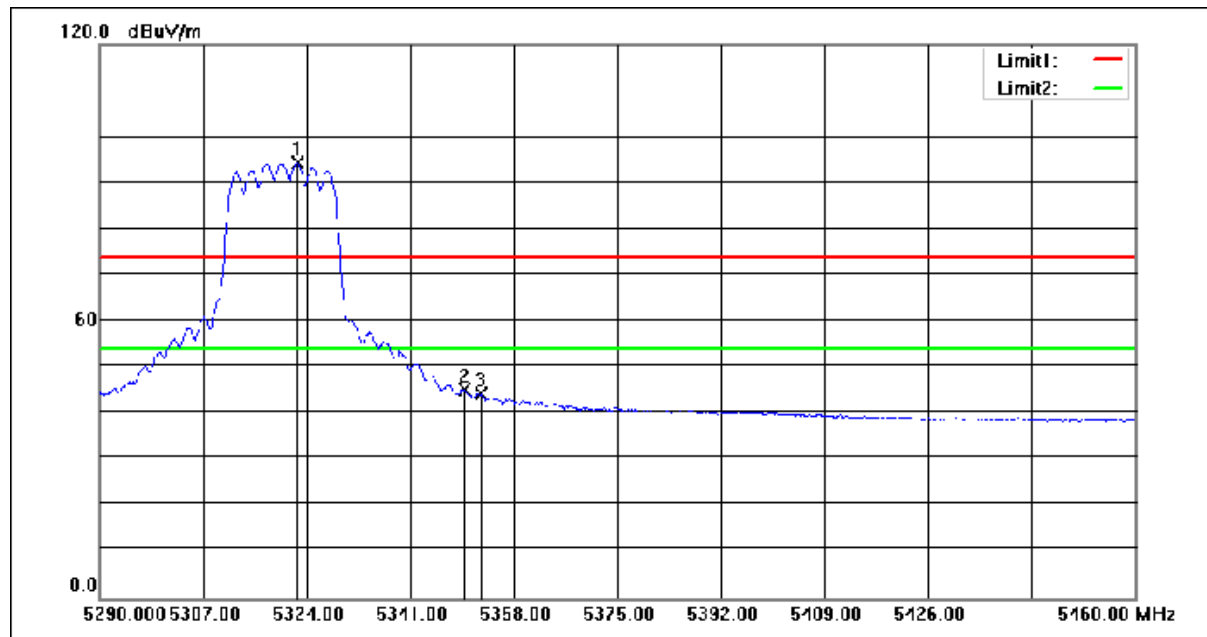
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5322.470	101.46	-7.25	94.21	54.00	40.21	AVG
2	5350.000	52.22	-7.15	45.07	54.00	-8.93	AVG
3	5352.560	51.42	-7.14	44.28	54.00	-9.72	AVG



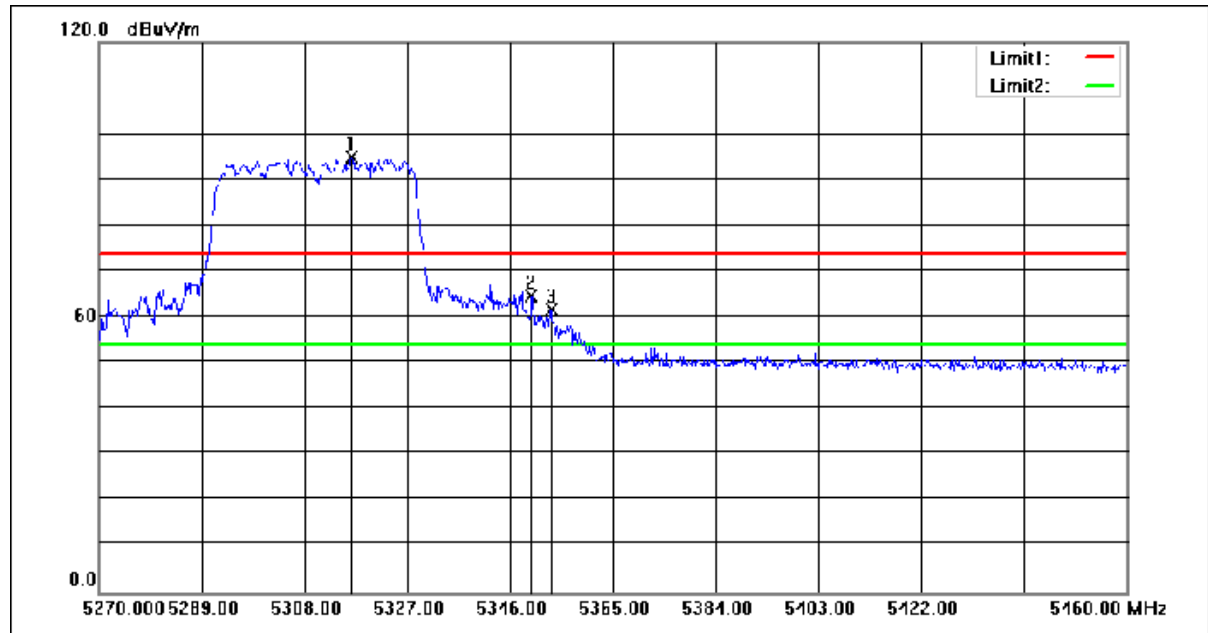
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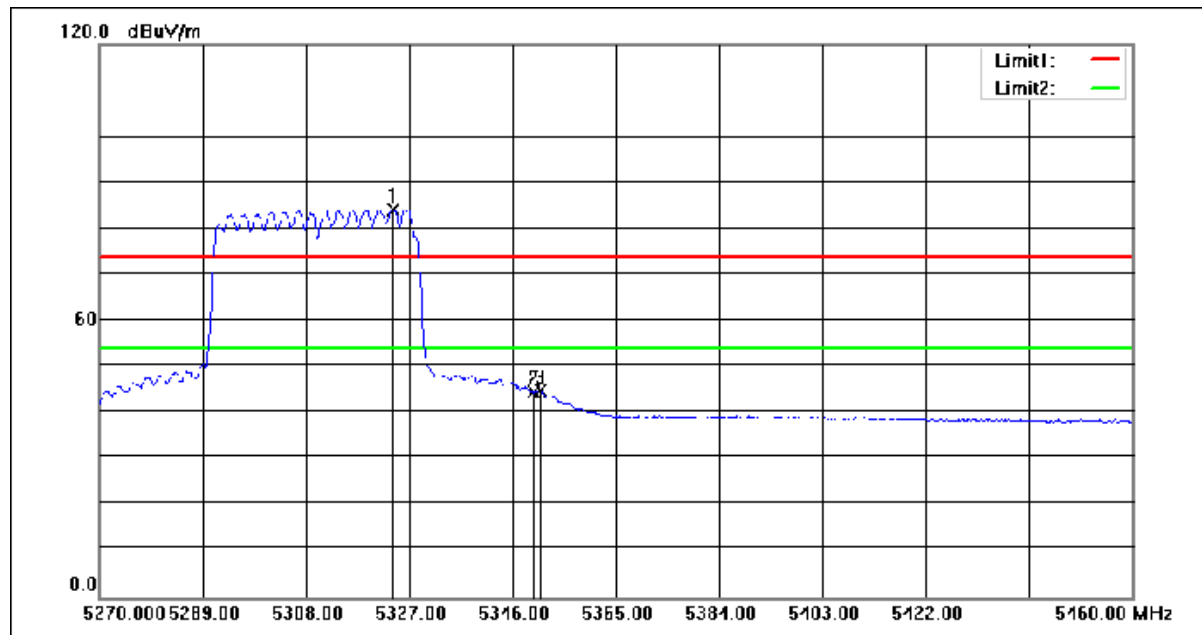
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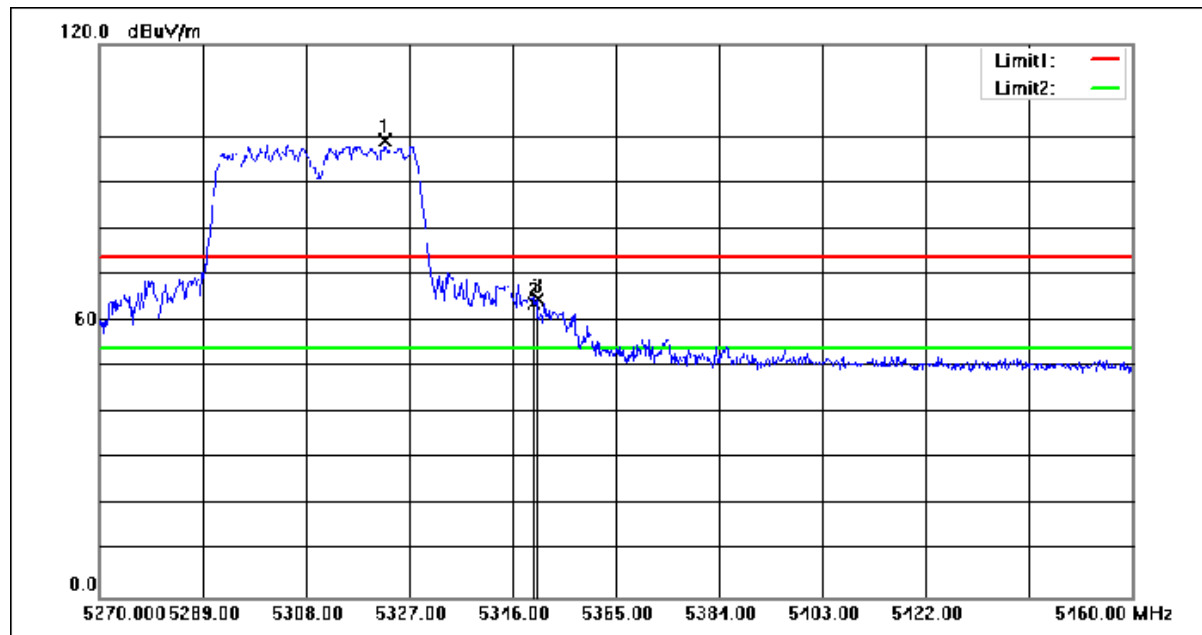
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1	5316.740	102.13	-7.27	94.86	74.00	20.86	peak
2	5350.000	71.81	-7.15	64.66	74.00	-9.34	peak
3	5353.600	68.71	-7.13	61.58	74.00	-12.42	peak

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	5323.960	91.51	-7.24	84.27	54.00	30.27	AVG
2	5350.000	51.57	-7.15	44.42	54.00	-9.58	AVG
3	5351.130	52.06	-7.14	44.92	54.00	-9.08	AVG

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	5322.440	106.32	-7.25	99.07	74.00	25.07	peak
2	5350.000	70.84	-7.15	63.69	74.00	-10.31	peak
3	5350.560	71.77	-7.14	64.63	74.00	-9.37	peak



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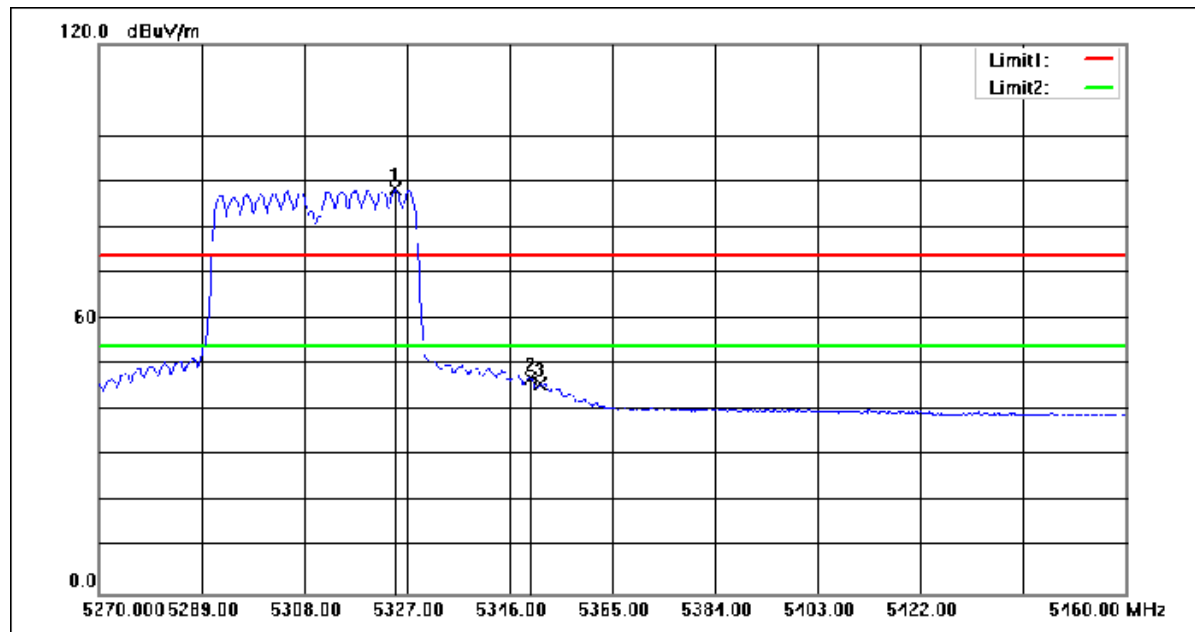
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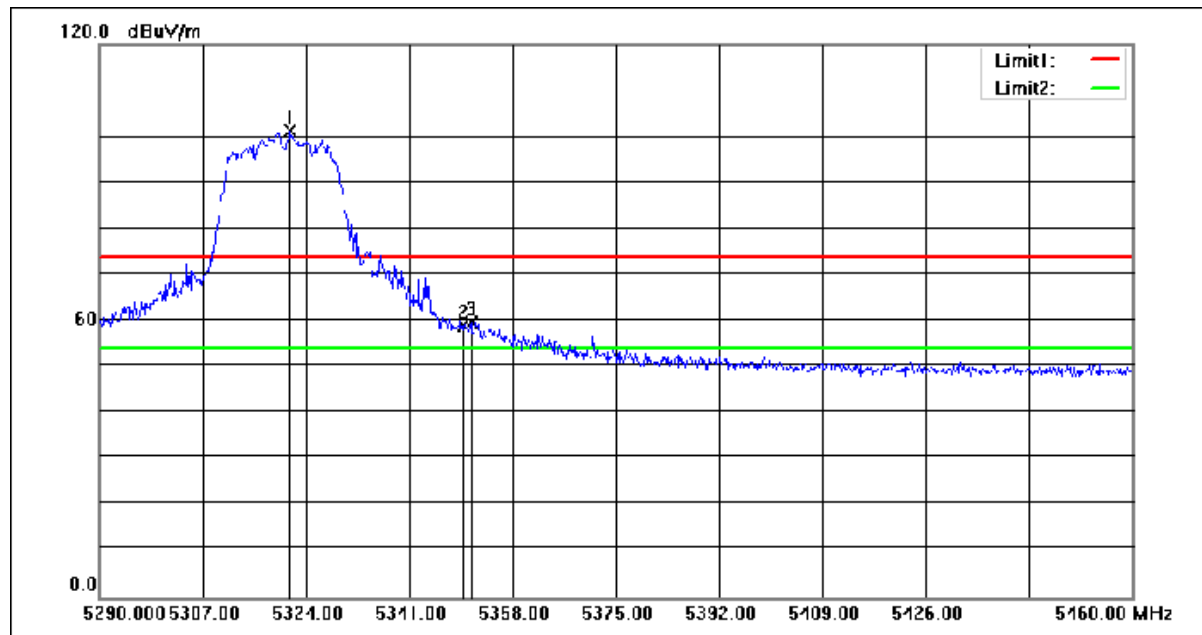
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



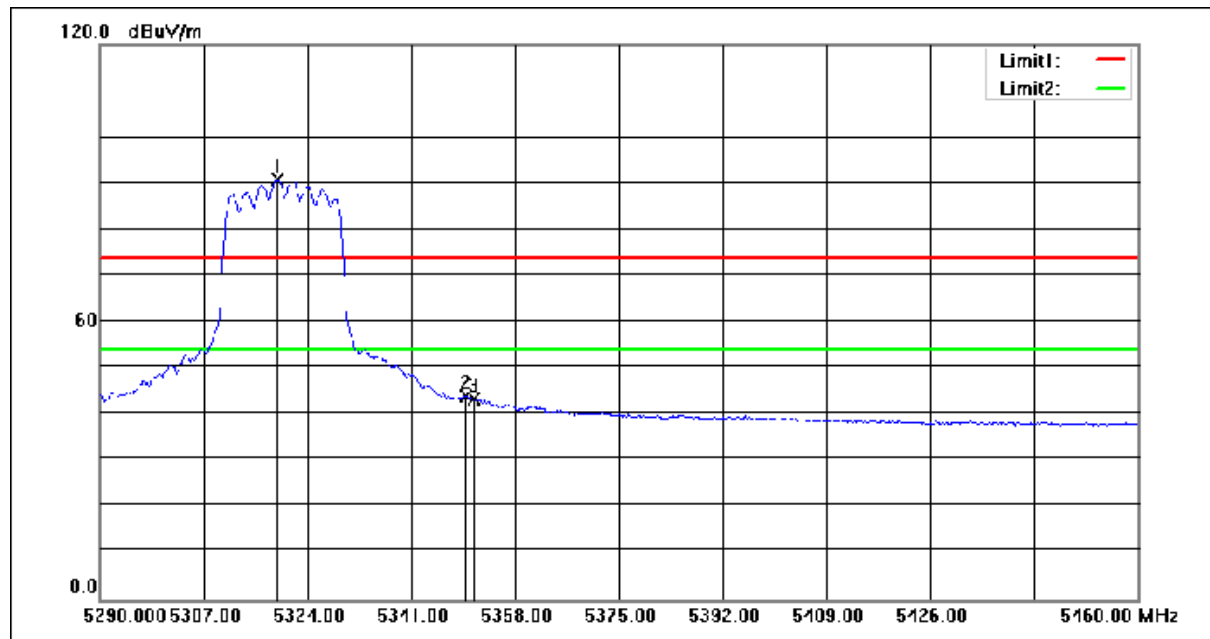
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5324.720	95.52	-7.24	88.28	54.00	34.28	AVG
2	5350.000	54.05	-7.15	46.90	54.00	-7.10	AVG
3	5351.700	52.97	-7.14	45.83	54.00	-8.17	AVG

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



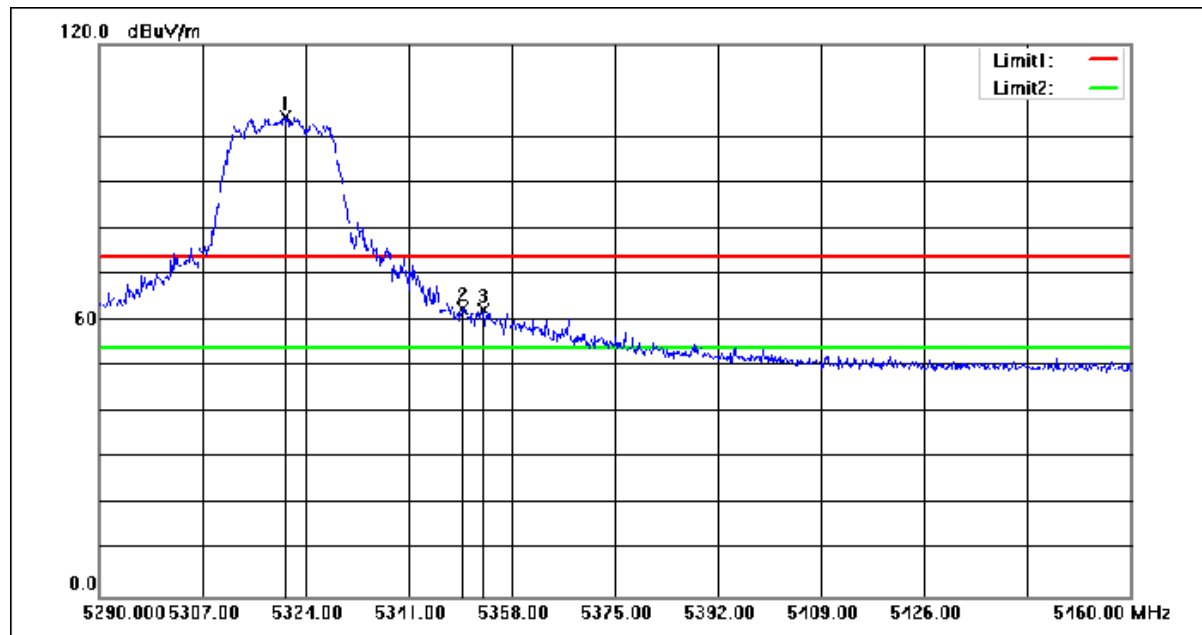
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1	5321.450	108.44	-7.26	101.18	74.00	27.18	peak
2	5350.000	66.18	-7.15	59.03	74.00	-14.97	peak
3	5351.200	66.73	-7.14	59.59	74.00	-14.41	peak

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



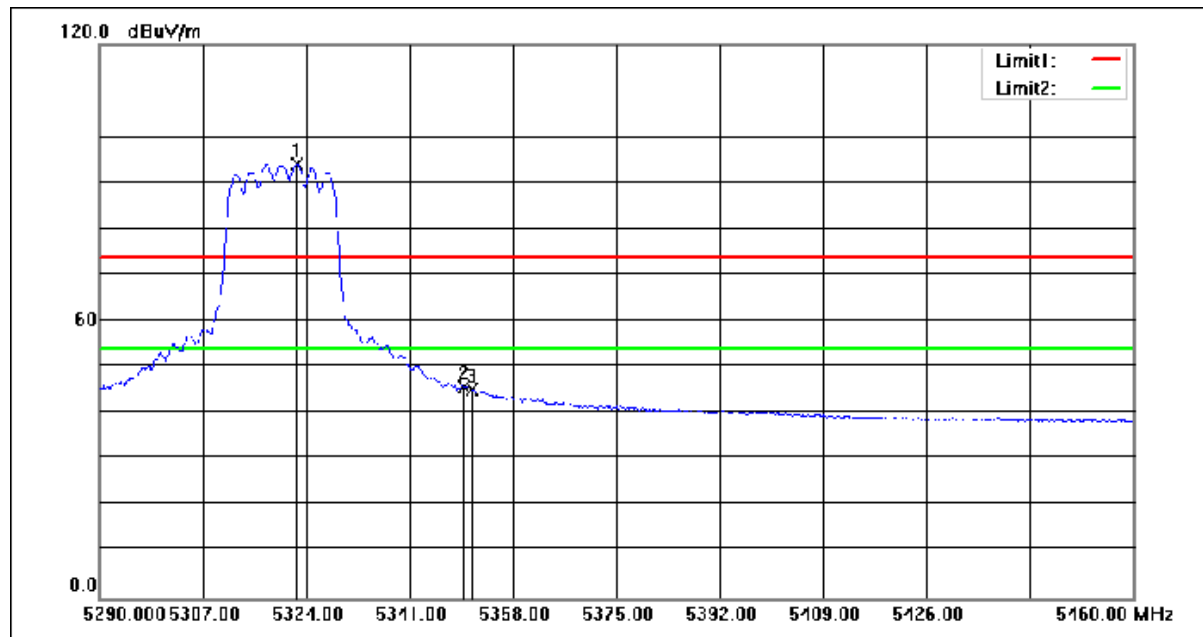
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5319.070	98.02	-7.27	90.75	54.00	36.75	AVG
2	5350.000	50.98	-7.15	43.83	54.00	-10.17	AVG
3	5351.370	50.59	-7.14	43.45	54.00	-10.55	AVG

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	5320.600	111.55	-7.26	104.29	74.00	30.29	peak
2	5350.000	69.70	-7.15	62.55	74.00	-11.45	peak
3	5353.410	69.46	-7.13	62.33	74.00	-11.67	peak

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	5322.470	101.38	-7.25	94.13	54.00	40.13	AVG
2	5350.000	52.84	-7.15	45.69	54.00	-8.31	AVG
3	5351.200	52.36	-7.14	45.22	54.00	-8.78	AVG



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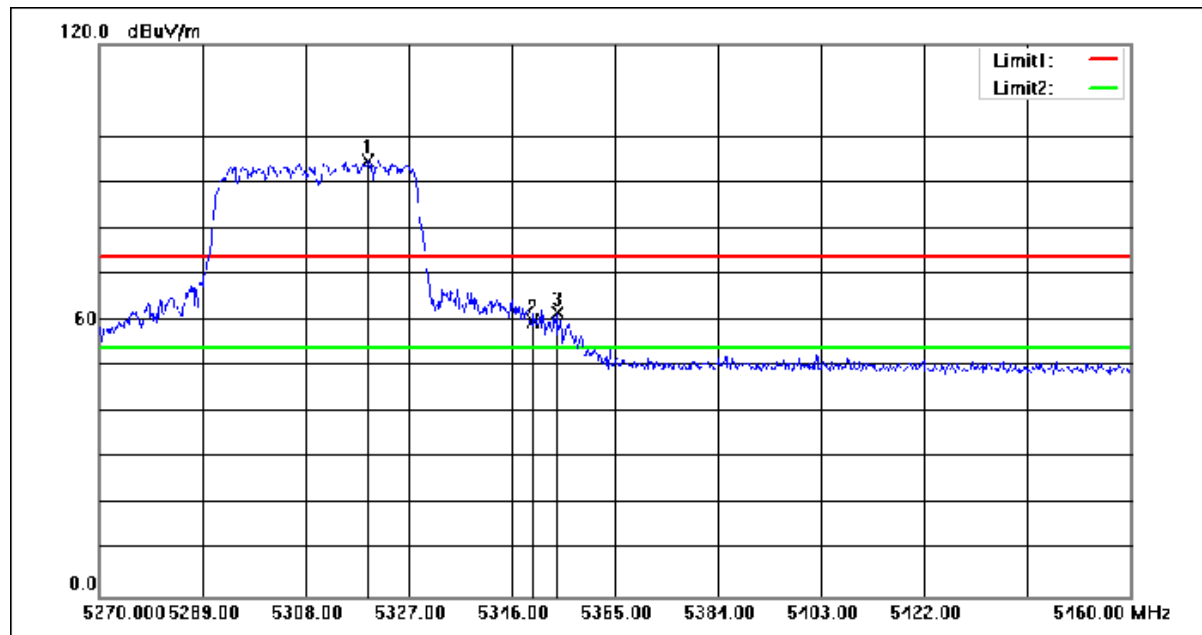
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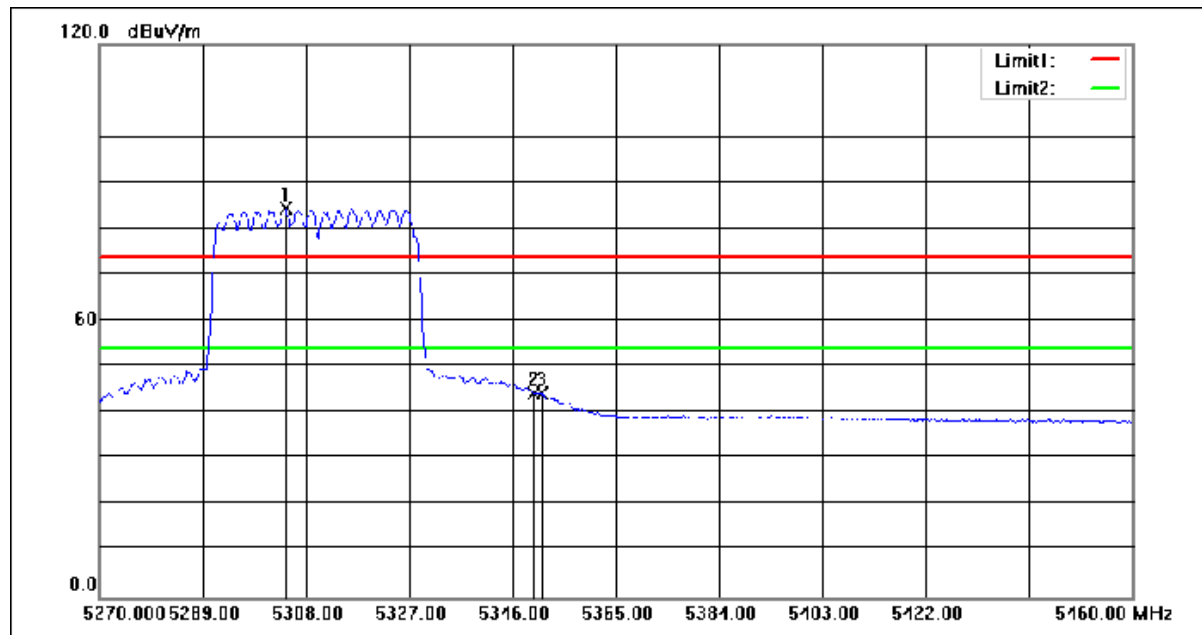
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



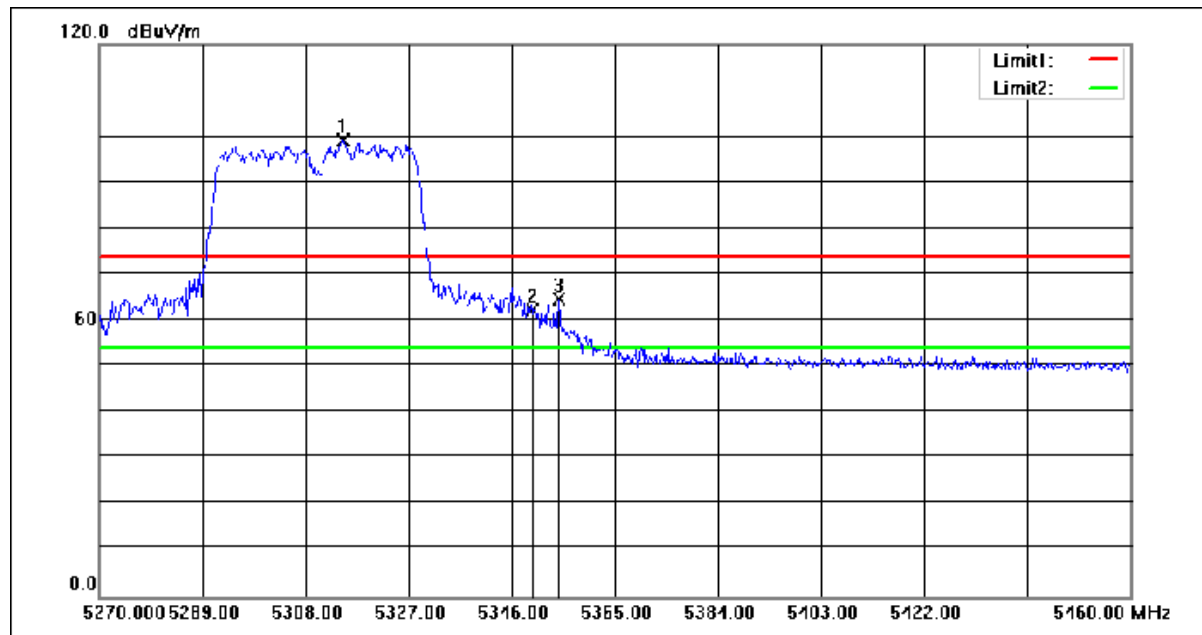
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1	5319.590	101.93	-7.26	94.67	74.00	20.67	peak
2	5350.000	66.97	-7.15	59.82	74.00	-14.18	peak
3	5354.360	68.71	-7.12	61.59	74.00	-12.41	peak

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



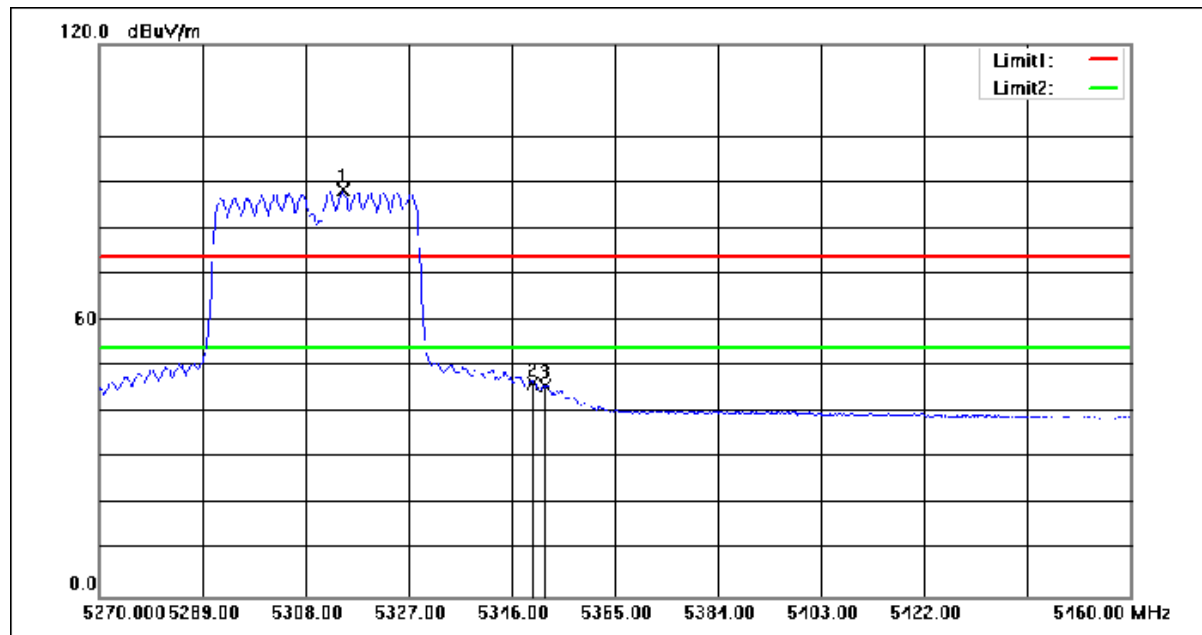
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5304.200	91.70	-7.32	84.38	54.00	30.38	AVG
2	5350.000	51.42	-7.15	44.27	54.00	-9.73	AVG
3	5351.320	51.51	-7.14	44.37	54.00	-9.63	AVG

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



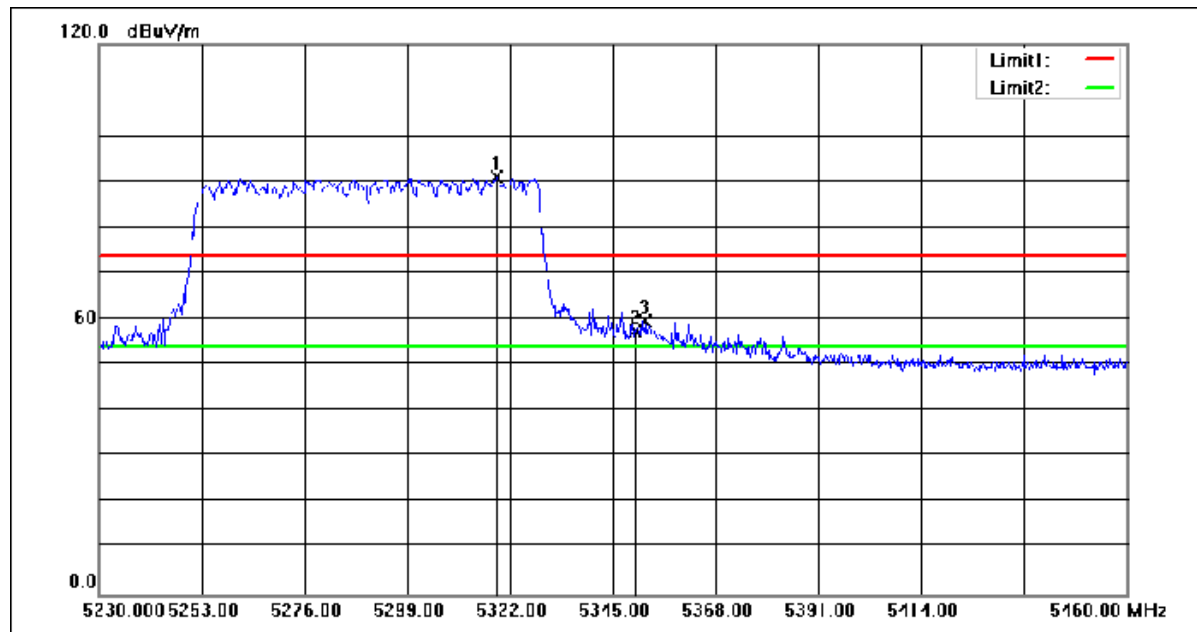
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5314.840	106.46	-7.29	99.17	74.00	25.17	peak
2	5350.000	69.42	-7.15	62.27	74.00	-11.73	peak
3	5354.740	71.80	-7.12	64.68	74.00	-9.32	peak

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



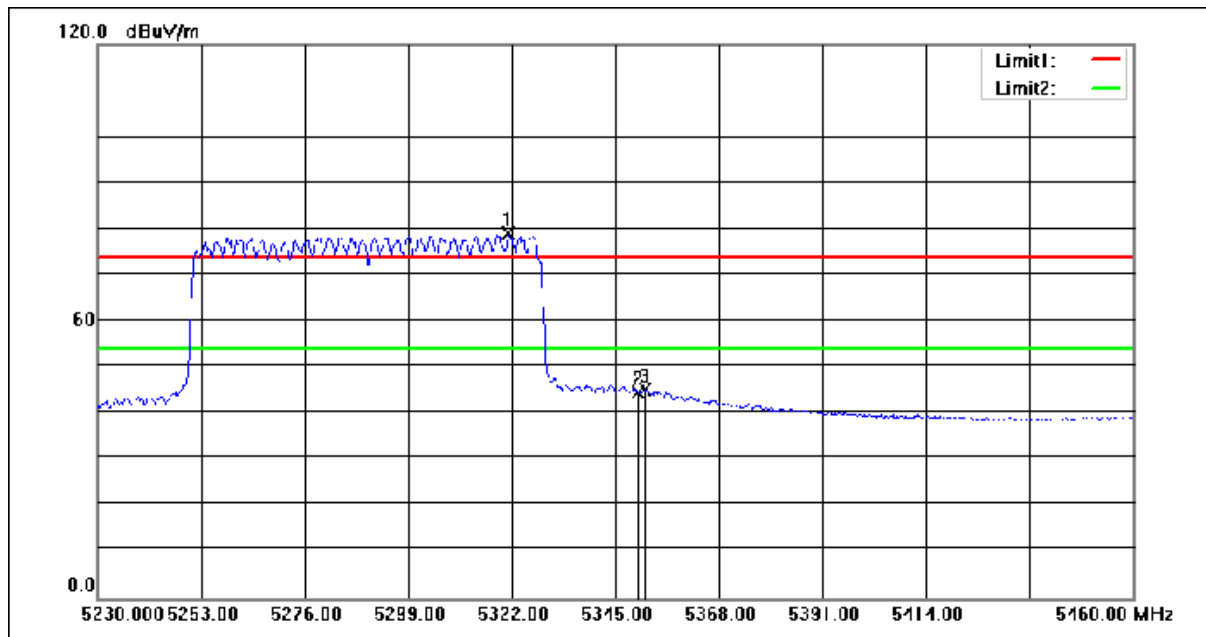
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5314.840	95.57	-7.29	88.28	54.00	34.28	AVG
2	5350.000	53.65	-7.15	46.50	54.00	-7.50	AVG
3	5352.080	52.87	-7.14	45.73	54.00	-8.27	AVG

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5319.010	98.22	-7.27	90.95	74.00	16.95	peak
2	5350.000	64.68	-7.15	57.53	74.00	-16.47	peak
3	5352.130	66.71	-7.14	59.57	74.00	-14.43	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5321.310	86.17	-7.26	78.91	54.00	24.91	AVG
2	5350.000	51.77	-7.15	44.62	54.00	-9.38	AVG
3	5351.670	52.24	-7.14	45.10	54.00	-8.90	AVG



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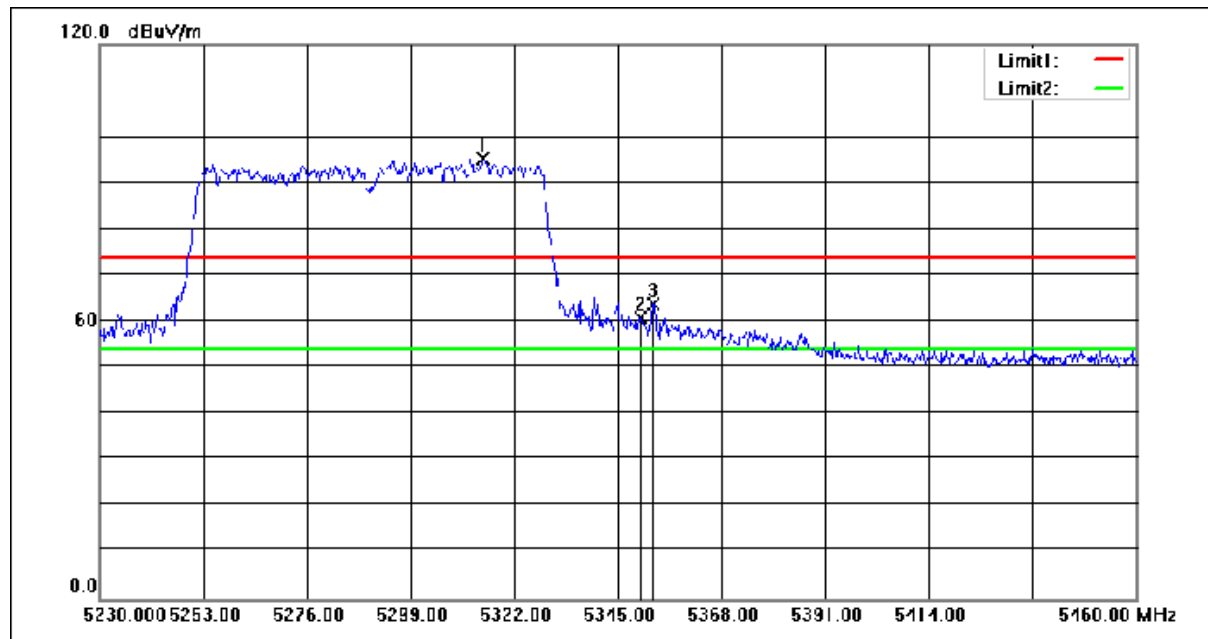
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5315.100	102.53	-7.29	95.24	74.00	21.24	peak
2	5350.000	67.90	-7.15	60.75	74.00	-13.25	peak
3	5352.820	71.04	-7.14	63.90	74.00	-10.10	peak



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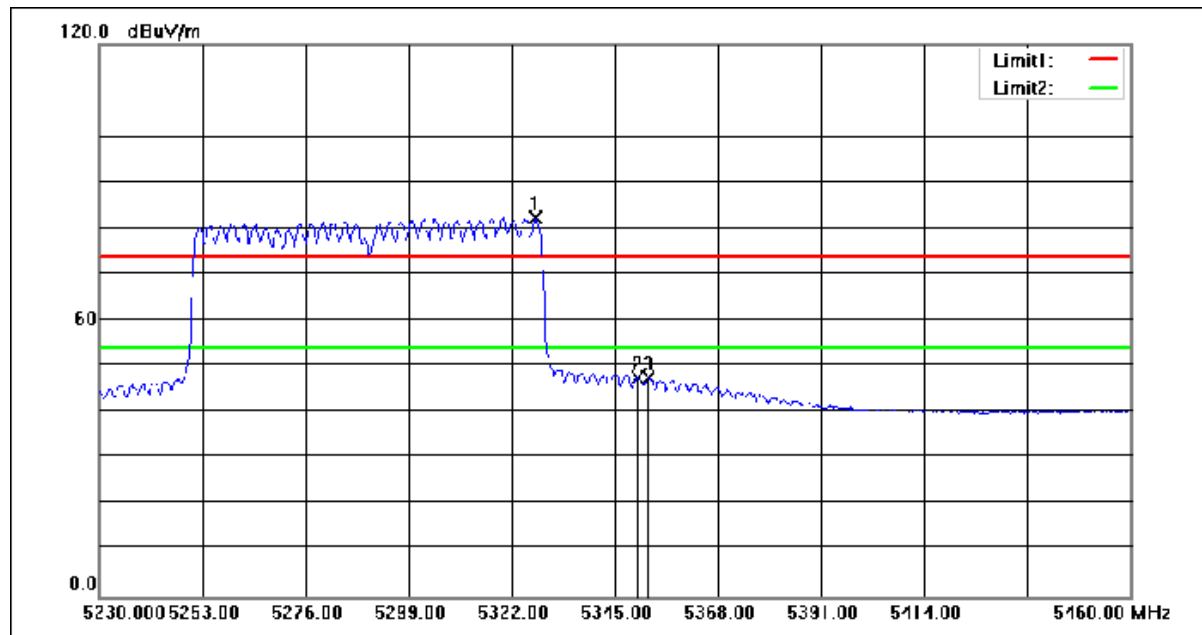
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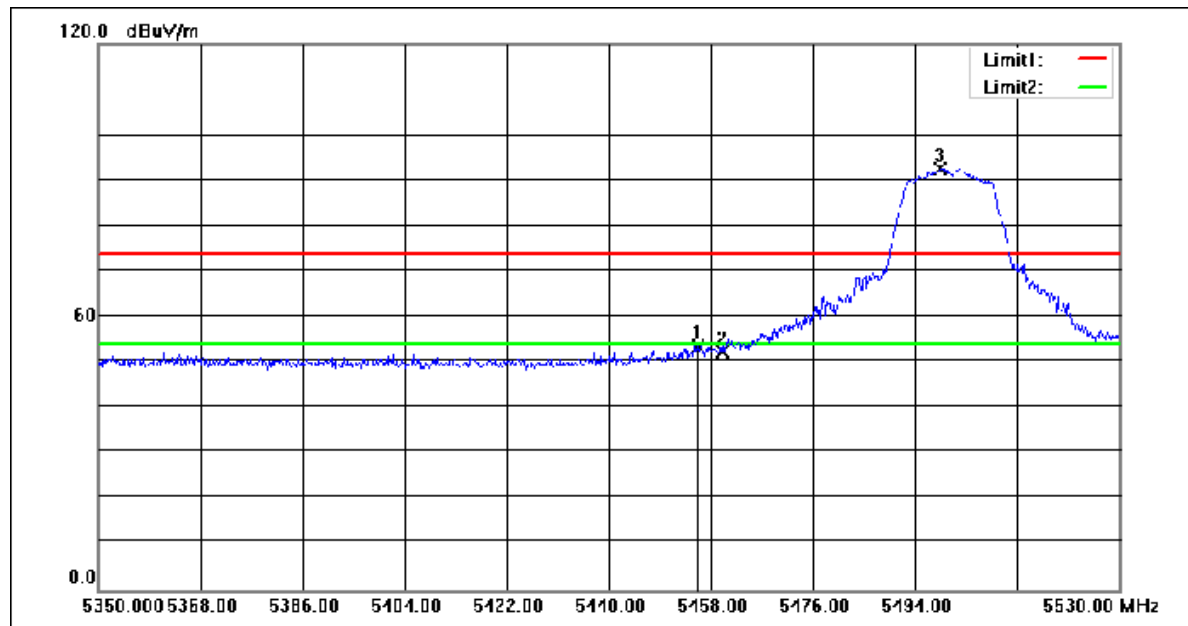
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



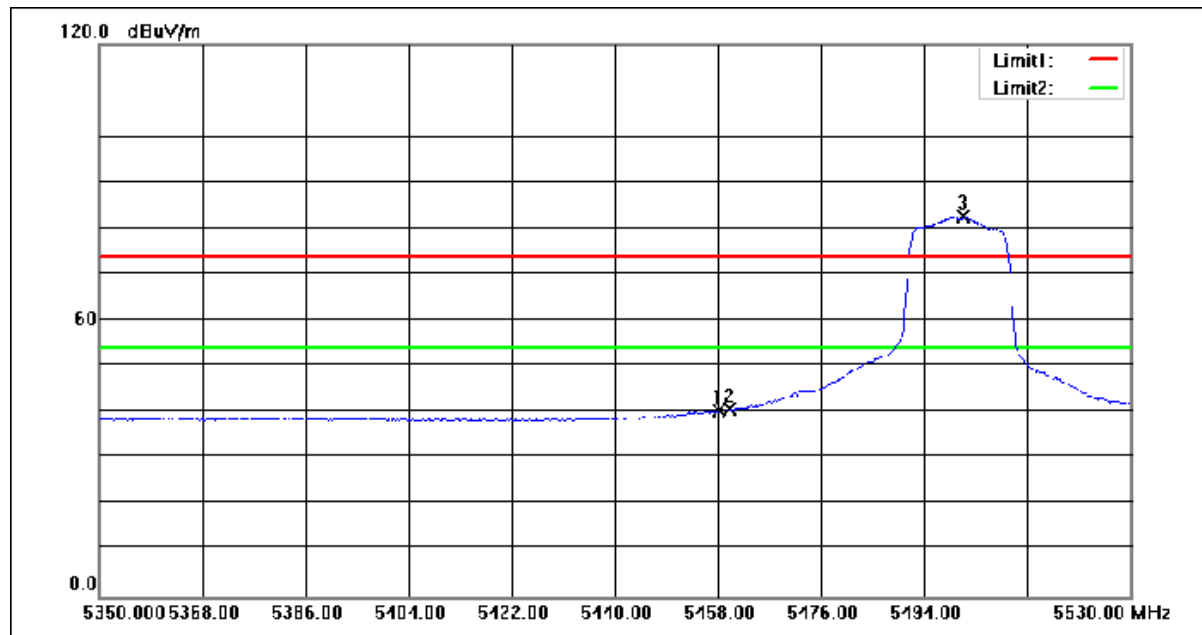
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1	5327.290	89.47	-7.24	82.23	54.00	28.23	AVG
2	5350.000	54.82	-7.15	47.67	54.00	-6.33	AVG
3	5352.360	54.62	-7.14	47.48	54.00	-6.52	AVG

Mode:d; 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	5455.660	60.55	-6.96	53.59	74.00	-20.41	peak
2	5460.000	59.21	-6.95	52.26	74.00	-21.74	peak
3	5498.500	99.60	-6.96	92.64	74.00	18.64	peak

Mode:d; 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	5458.180	47.22	-6.96	40.26	54.00	-13.74	AVG
2	5460.000	47.49	-6.95	40.54	54.00	-13.46	AVG
3	5500.840	89.52	-6.96	82.56	54.00	28.56	AVG



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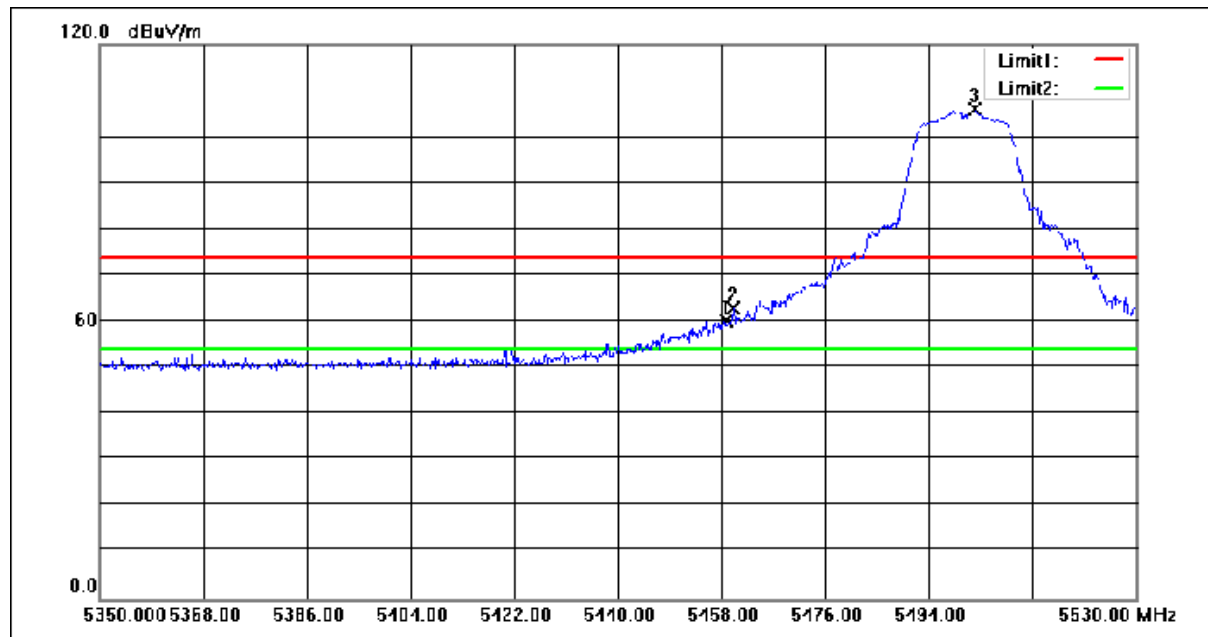
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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.720	67.13	-6.96	60.17	74.00	-13.83	peak
2	5460.000	69.80	-6.95	62.85	74.00	-11.15	peak
3	5502.100	112.87	-6.96	105.91	74.00	31.91	peak



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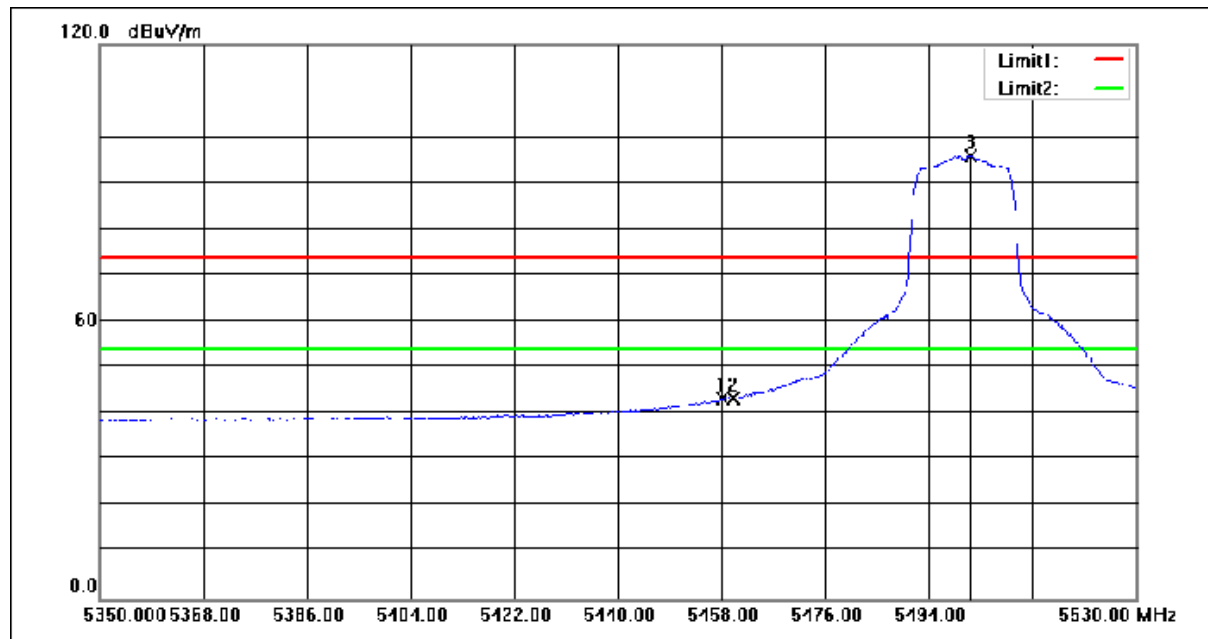
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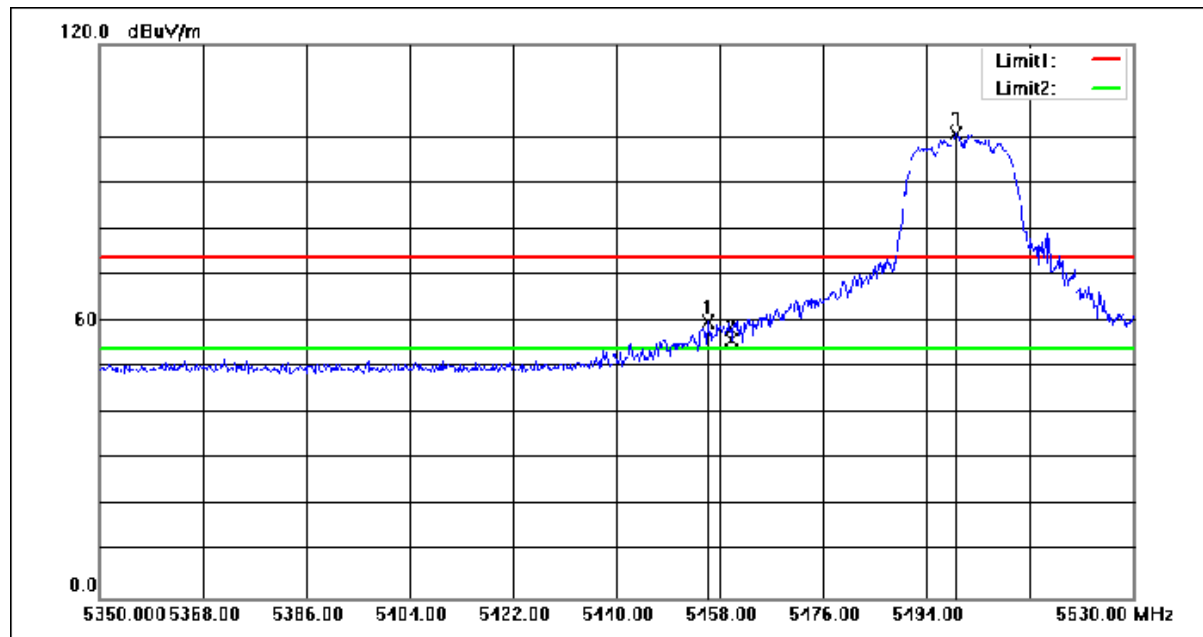
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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



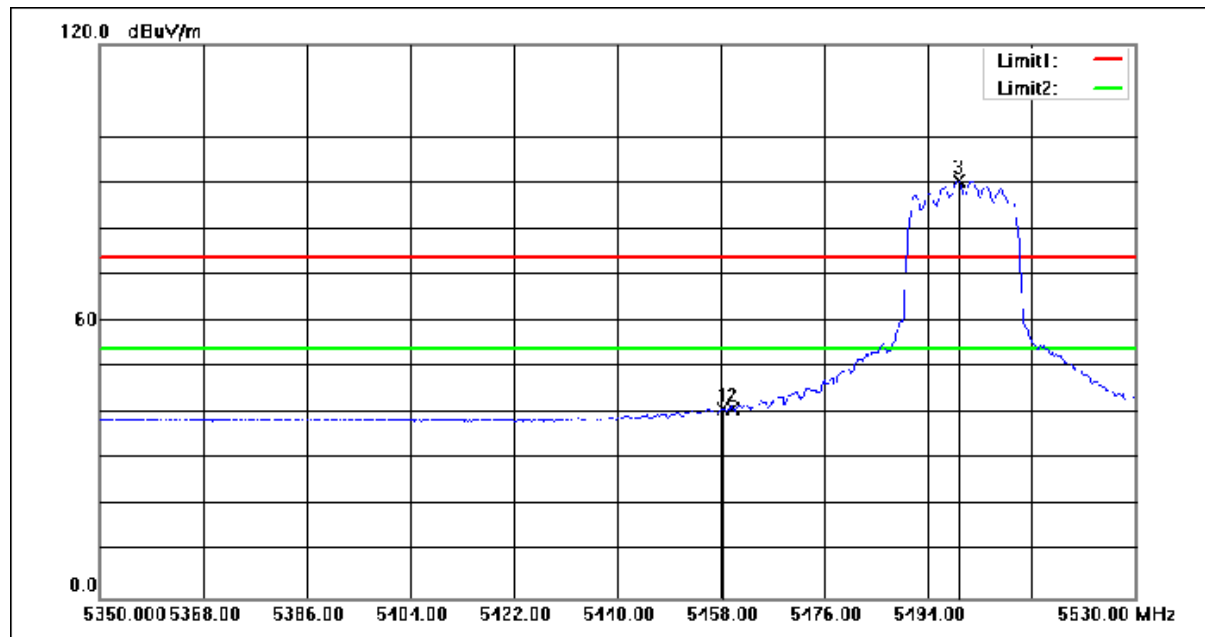
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.000	50.21	-6.96	43.25	54.00	-10.75	AVG
2	5460.000	50.37	-6.95	43.42	54.00	-10.58	AVG
3	5501.200	102.96	-6.96	96.00	54.00	42.00	AVG

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



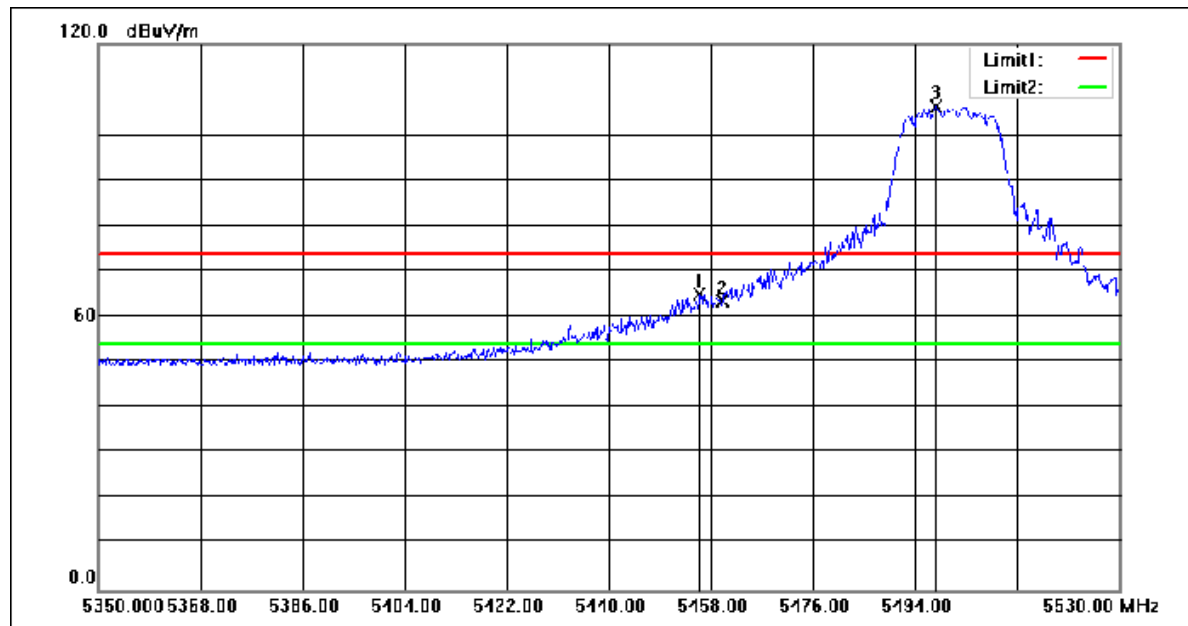
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5455.840	66.71	-6.96	59.75	74.00	-14.25	peak
2	5460.000	63.00	-6.95	56.05	74.00	-17.95	peak
3	5499.040	107.75	-6.96	100.79	74.00	26.79	peak

Mode:d; 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	5458.360	48.01	-6.96	41.05	54.00	-12.95	AVG
2	5460.000	47.88	-6.95	40.93	54.00	-13.07	AVG
3	5499.400	97.44	-6.96	90.48	54.00	36.48	AVG

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5456.020	72.01	-6.96	65.05	74.00	-8.95	peak
2	5460.000	70.32	-6.95	63.37	74.00	-10.63	peak
3	5497.780	113.26	-6.96	106.30	74.00	32.30	peak



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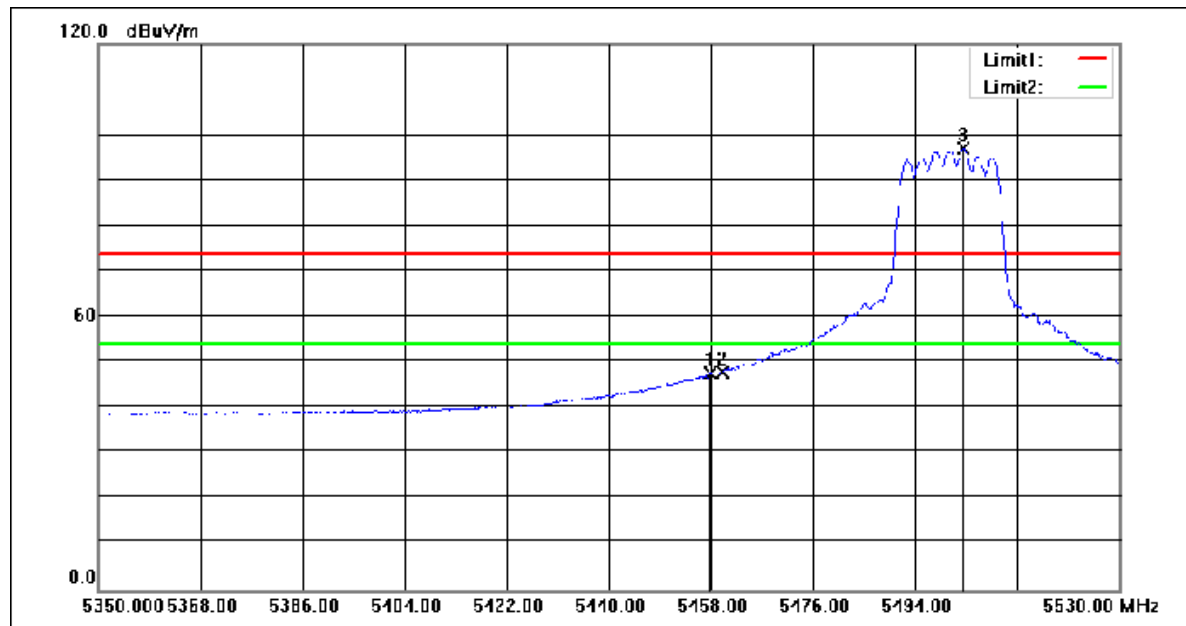
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.820	54.49	-6.96	47.53	54.00	-6.47	AVG
2	5460.000	54.83	-6.95	47.88	54.00	-6.12	AVG
3	5502.460	103.92	-6.96	96.96	54.00	42.96	AVG



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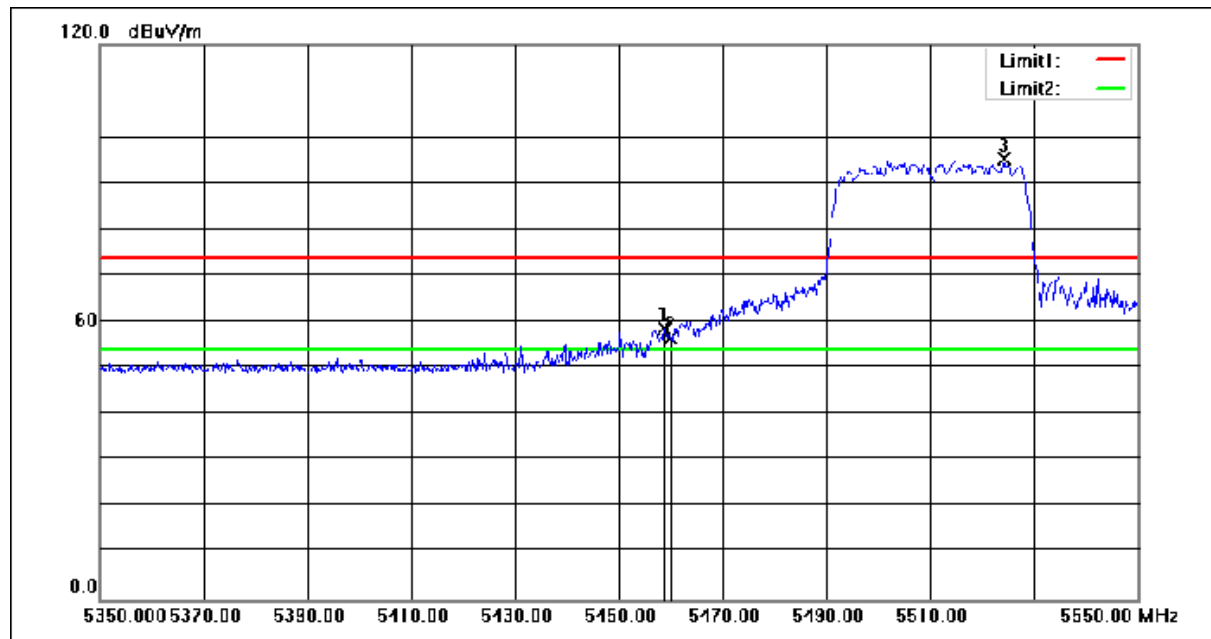
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.600	65.50	-6.96	58.54	74.00	-15.46	peak
2	5460.000	63.48	-6.95	56.53	74.00	-17.47	peak
3	5524.200	102.30	-6.96	95.34	74.00	21.34	peak



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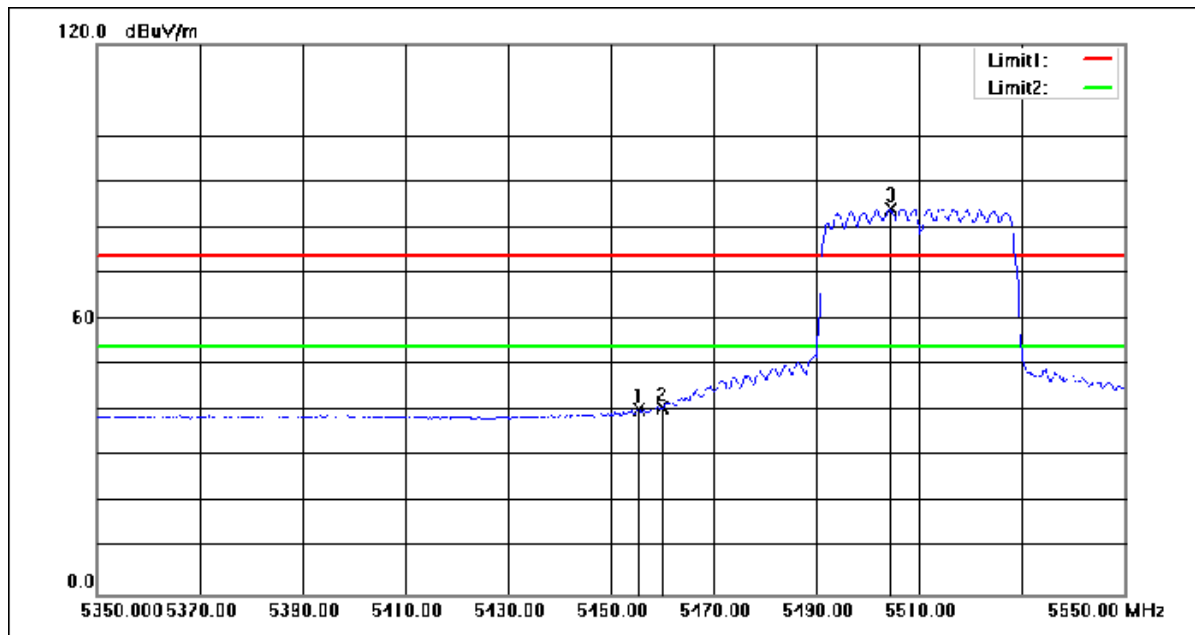
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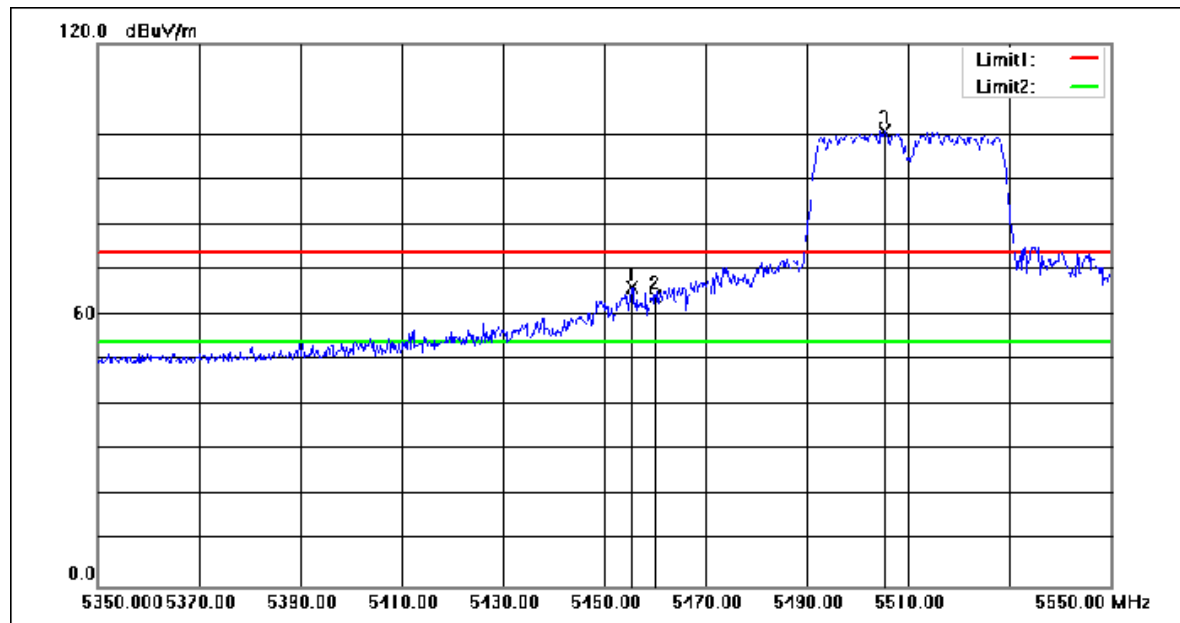
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5455.400	47.34	-6.96	40.38	54.00	-13.62	AVG
2	5460.000	47.46	-6.95	40.51	54.00	-13.49	AVG
3	5504.400	91.15	-6.96	84.19	54.00	30.19	AVG

Mode:d; 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	5455.400	73.21	-6.96	66.25	74.00	-7.75	peak
2	5460.000	70.86	-6.95	63.91	74.00	-10.09	peak
3	5505.400	107.50	-6.96	100.54	74.00	26.54	peak



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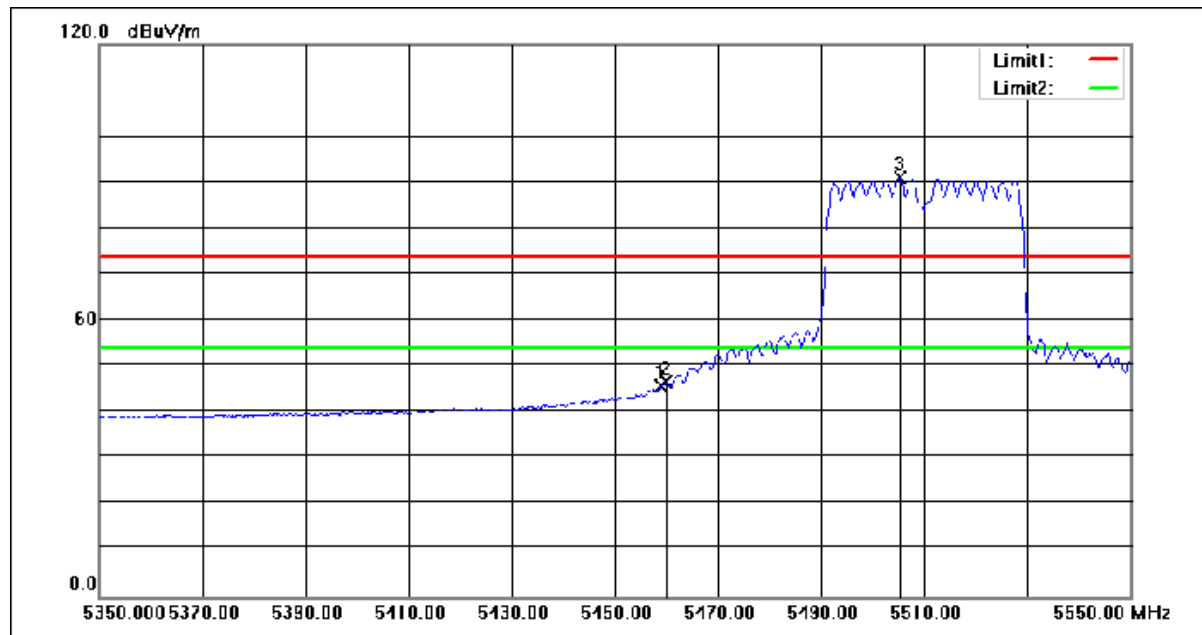
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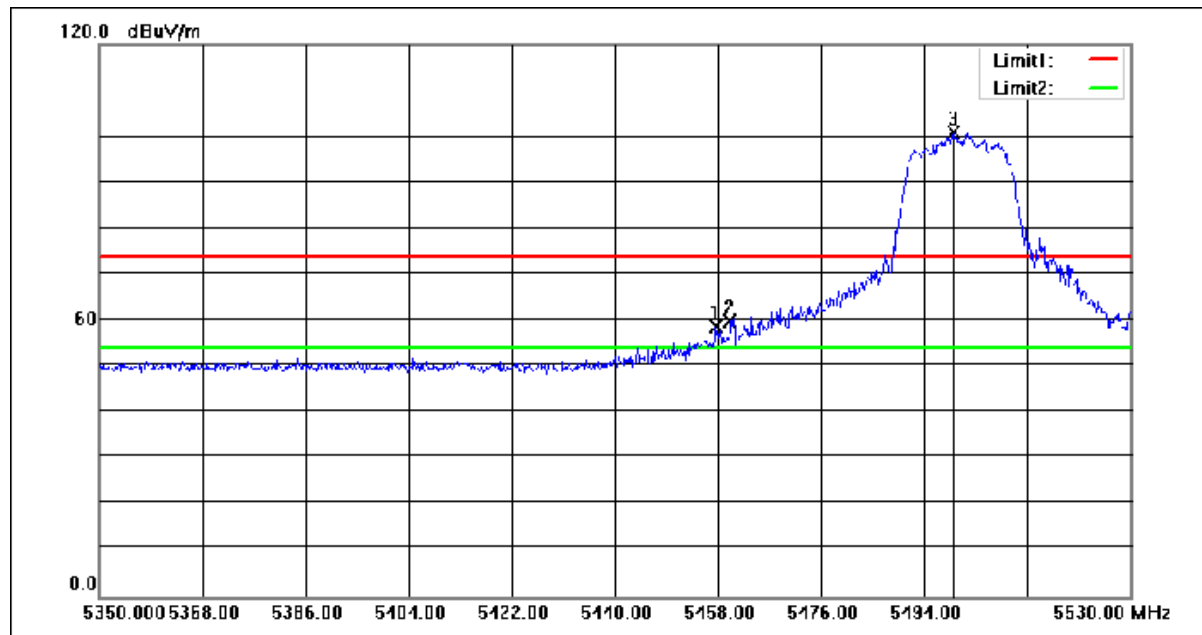
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



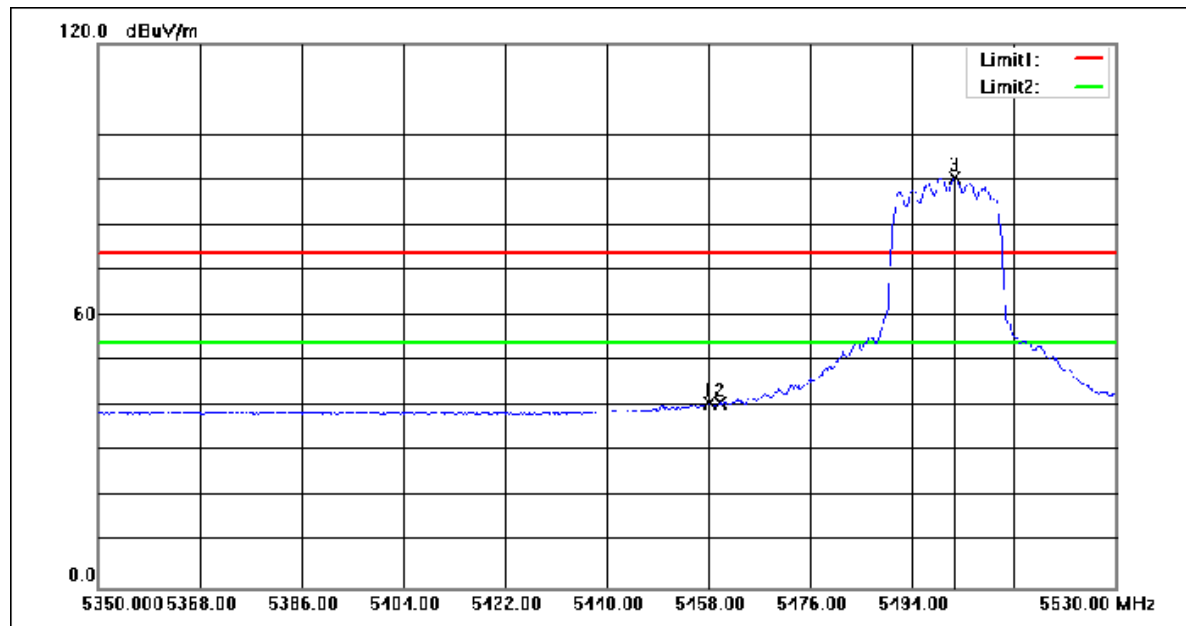
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.800	52.63	-6.96	45.67	54.00	-8.33	AVG
2	5460.000	53.61	-6.95	46.66	54.00	-7.34	AVG
3	5505.200	98.02	-6.96	91.06	54.00	37.06	AVG

Mode:d; 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	5457.640	65.76	-6.96	58.80	74.00	-15.20	peak
2	5460.000	66.73	-6.95	59.78	74.00	-14.22	peak
3	5499.040	107.82	-6.96	100.86	74.00	26.86	peak

Mode:d; 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	5458.180	47.48	-6.96	40.52	54.00	-13.48	AVG
2	5460.000	47.70	-6.95	40.75	54.00	-13.25	AVG
3	5501.560	97.49	-6.96	90.53	54.00	36.53	AVG



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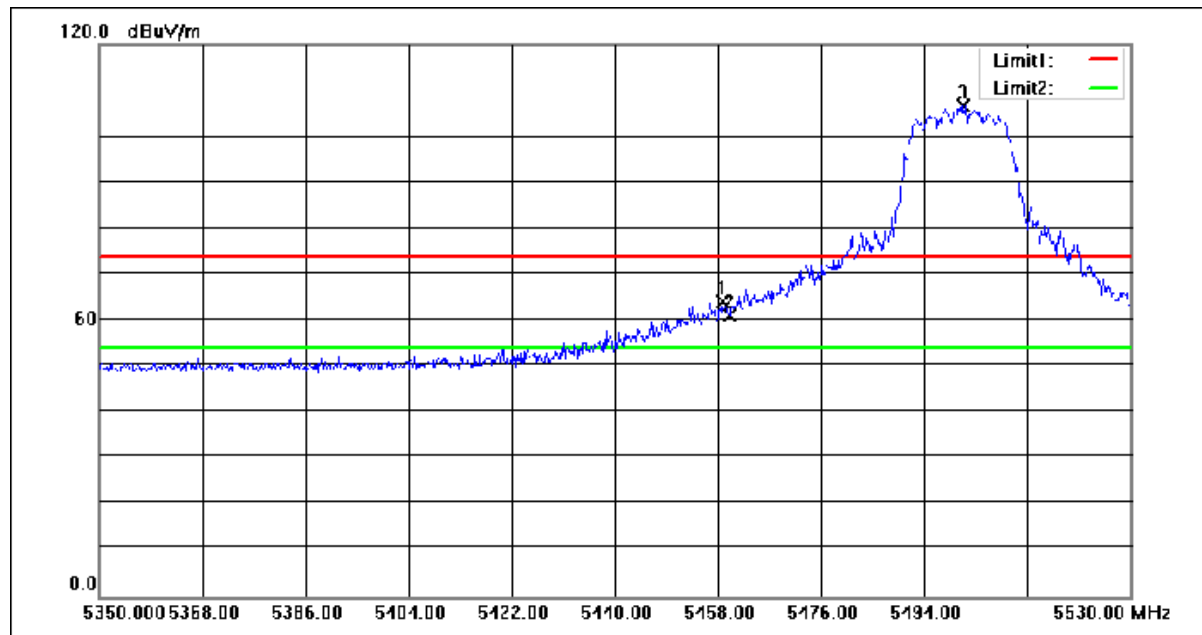
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.720	70.97	-6.96	64.01	74.00	-9.99	peak
2	5460.000	68.03	-6.95	61.08	74.00	-12.92	peak
3	5500.840	113.75	-6.96	106.79	74.00	32.79	peak



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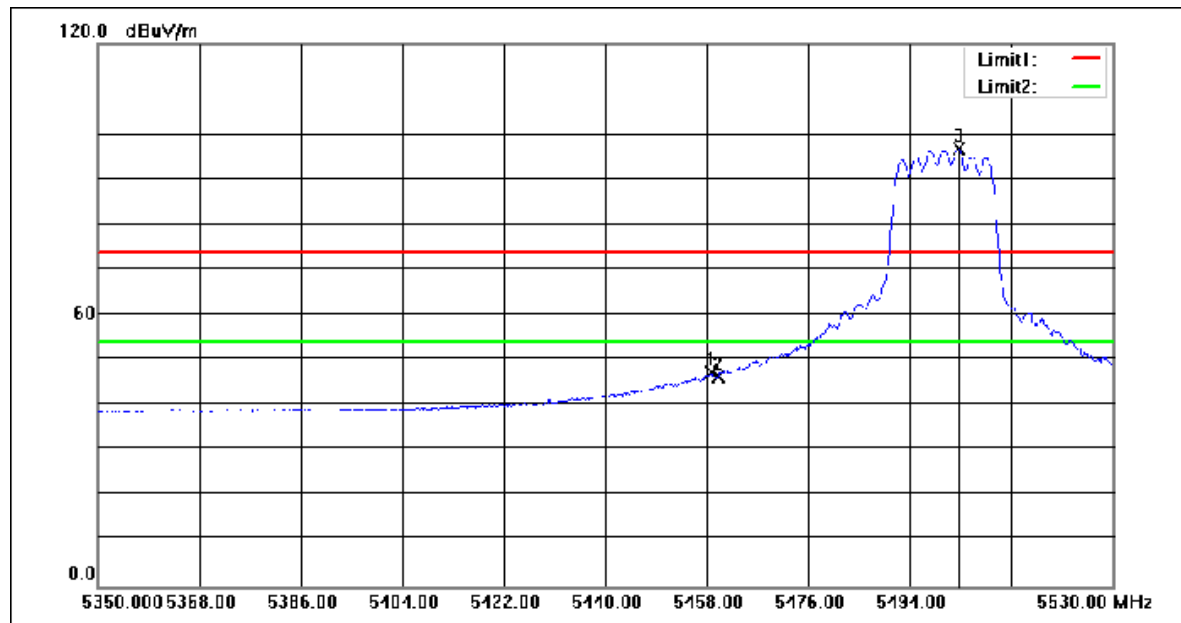
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.900	54.35	-6.96	47.39	54.00	-6.61	AVG
2	5460.000	53.33	-6.95	46.38	54.00	-7.62	AVG
3	5502.640	103.57	-6.96	96.61	54.00	42.61	AVG



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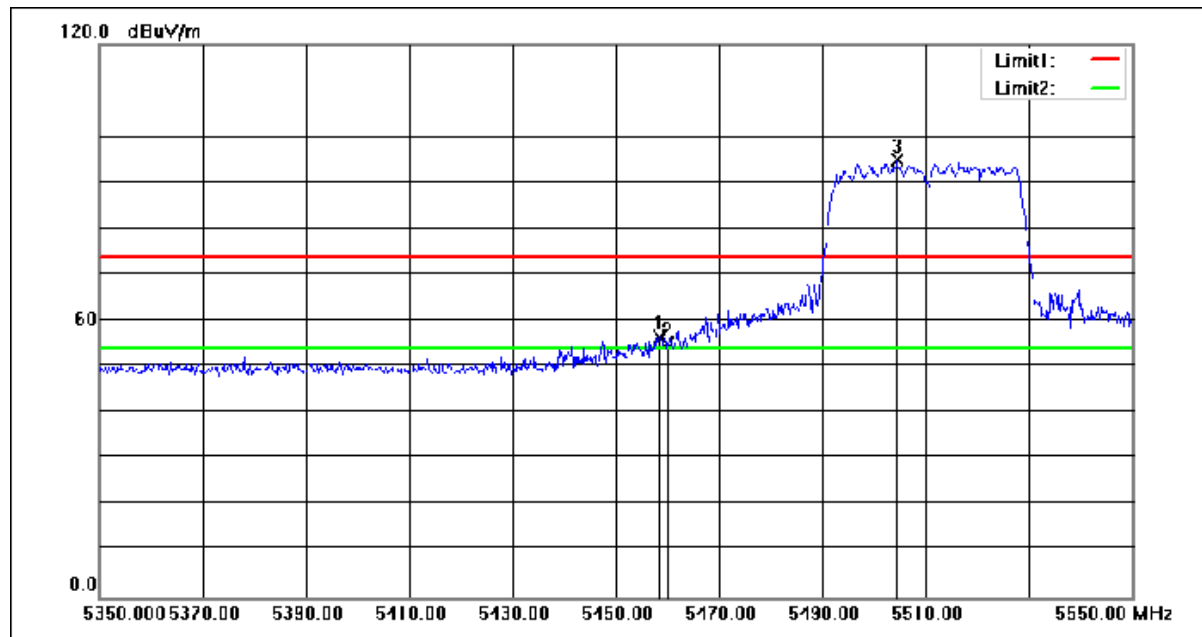
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.400	63.38	-6.96	56.42	74.00	-17.58	peak
2	5460.000	61.99	-6.95	55.04	74.00	-18.96	peak
3	5504.400	101.87	-6.96	94.91	74.00	20.91	peak



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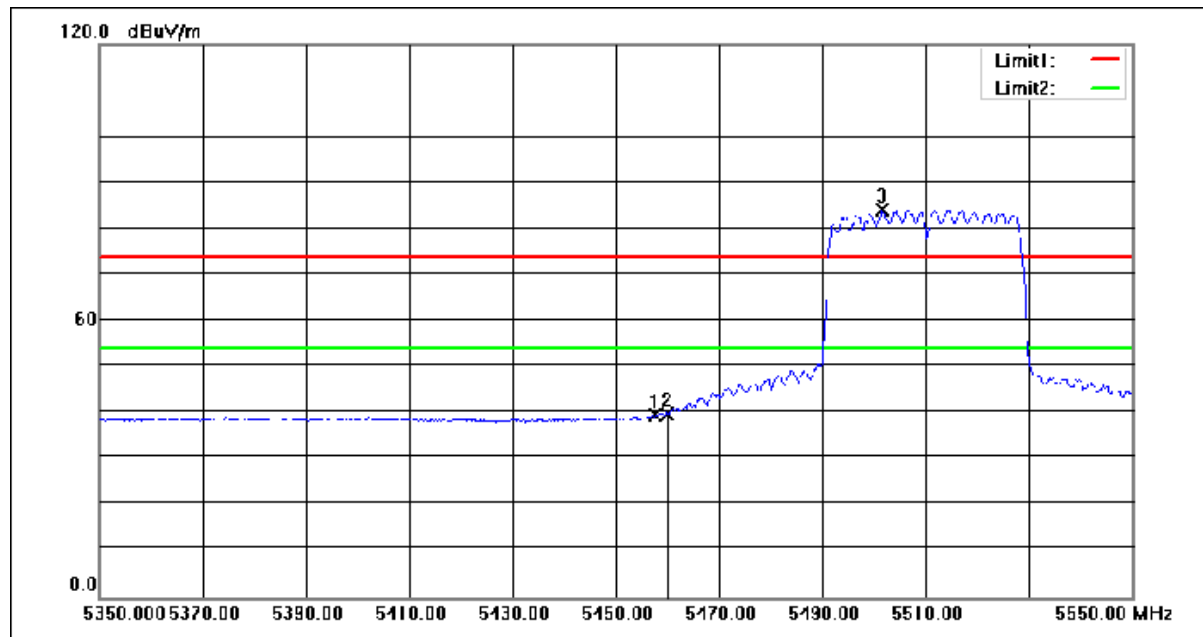
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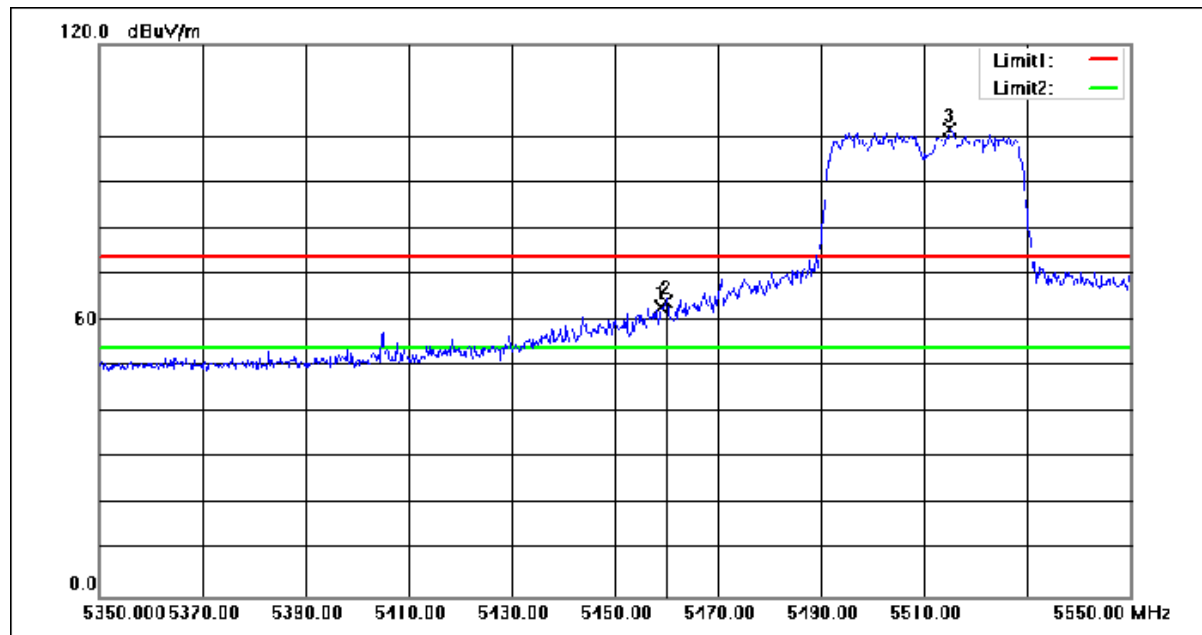
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



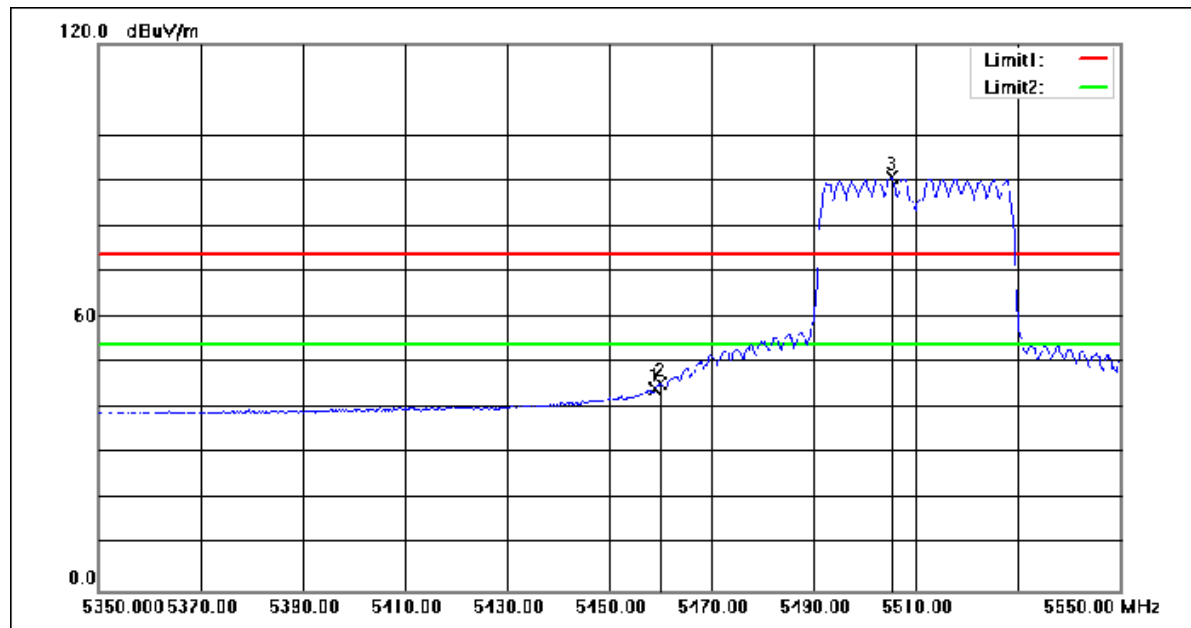
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.600	46.35	-6.96	39.39	54.00	-14.61	AVG
2	5460.000	46.81	-6.95	39.86	54.00	-14.14	AVG
3	5501.600	91.01	-6.96	84.05	54.00	30.05	AVG

Mode:d; 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	5459.000	69.87	-6.96	62.91	74.00	-11.09	peak
2	5460.000	71.09	-6.95	64.14	74.00	-9.86	peak
3	5515.000	108.45	-6.96	101.49	74.00	27.49	peak

Mode:d; 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	5459.000	51.17	-6.96	44.21	54.00	-9.79	AVG
2	5460.000	52.26	-6.95	45.31	54.00	-8.69	AVG
3	5505.200	97.64	-6.96	90.68	54.00	36.68	AVG



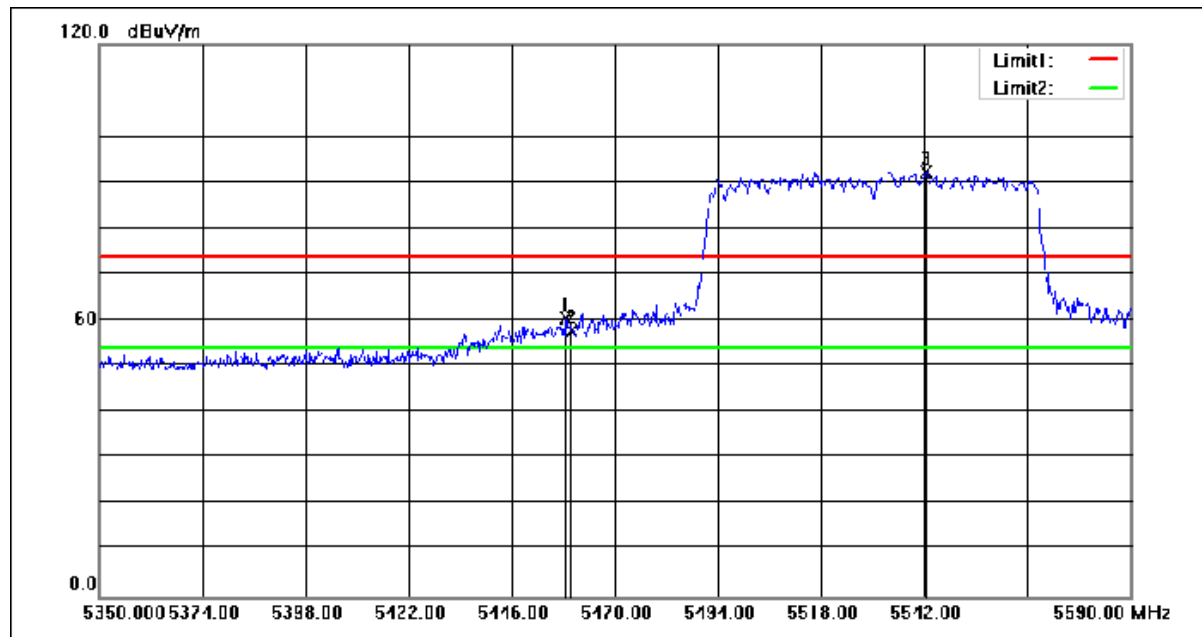
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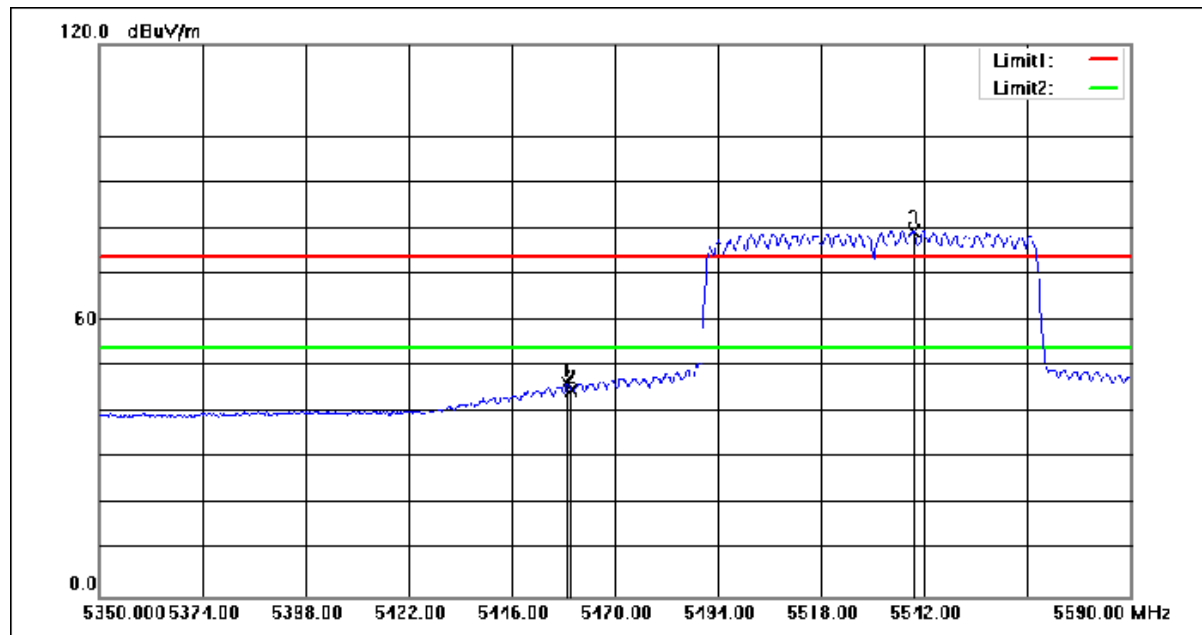
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.720	67.34	-6.96	60.38	74.00	-13.62	peak
2	5460.000	64.60	-6.95	57.65	74.00	-16.35	peak
3	5542.480	99.34	-6.96	92.38	74.00	18.38	peak

Mode:d; 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	5458.960	53.18	-6.96	46.22	54.00	-7.78	AVG
2	5460.000	51.74	-6.95	44.79	54.00	-9.21	AVG
3	5539.600	86.47	-6.97	79.50	54.00	25.50	AVG



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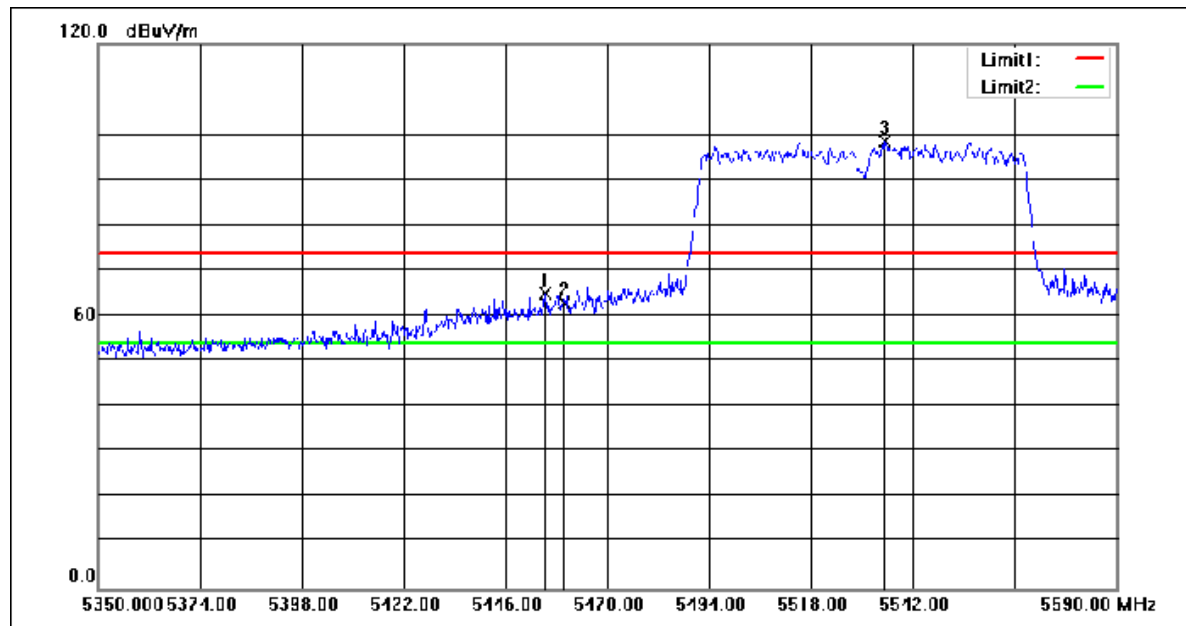
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5455.360	71.83	-6.96	64.87	74.00	-9.13	peak
2	5460.000	69.81	-6.95	62.86	74.00	-11.14	peak
3	5535.520	105.42	-6.97	98.45	74.00	24.45	peak



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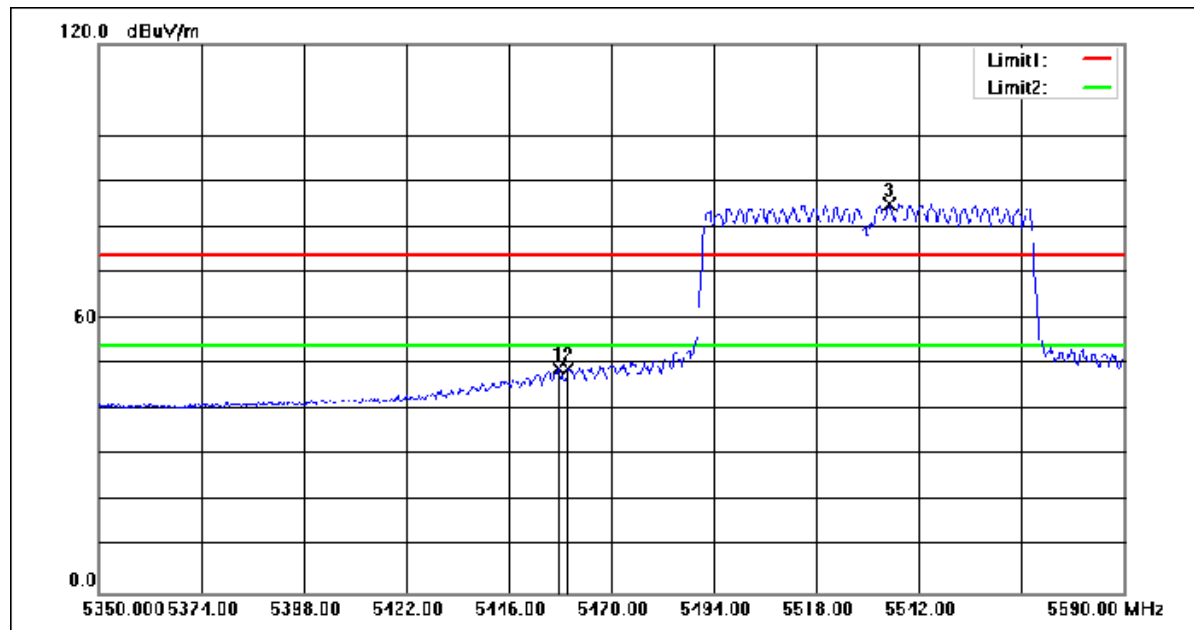
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.520	56.08	-6.96	49.12	54.00	-4.88	AVG
2	5460.000	55.97	-6.95	49.02	54.00	-4.98	AVG
3	5535.040	92.05	-6.97	85.08	54.00	31.08	AVG



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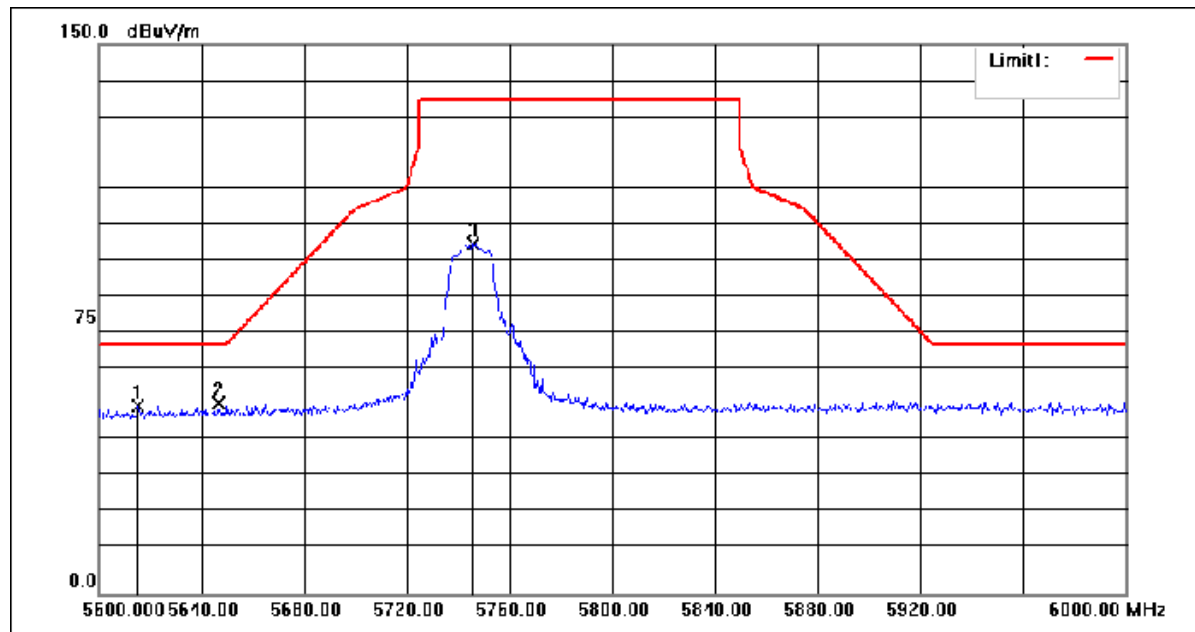
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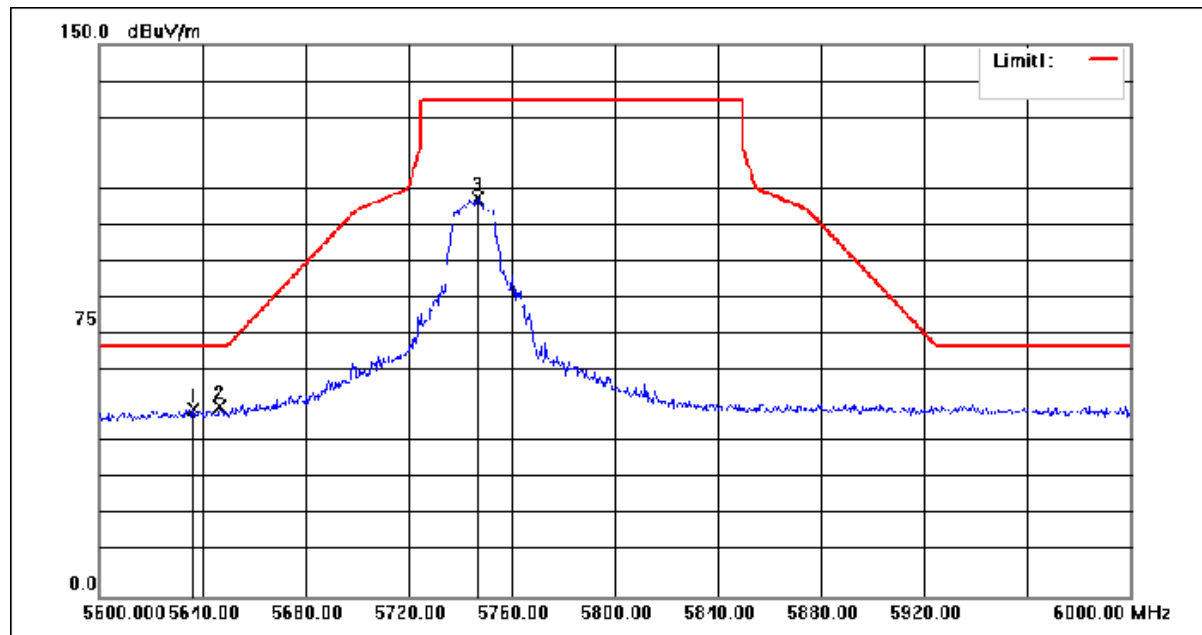
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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



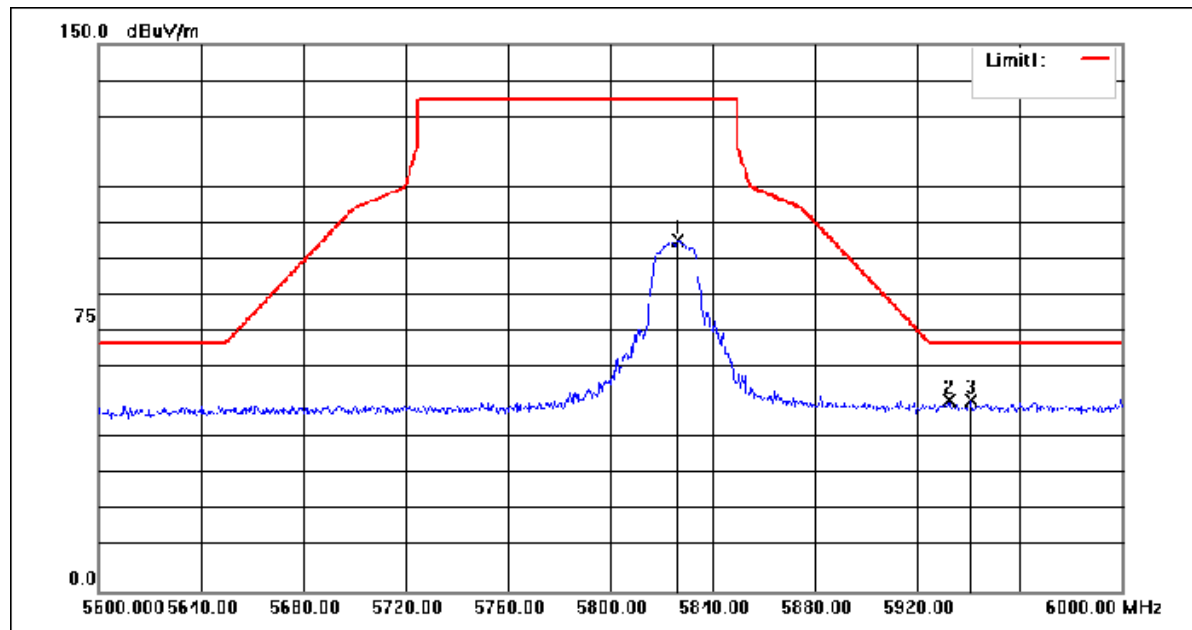
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5615.200	58.19	-6.93	51.26	68.20	-16.94	peak
2	5646.400	58.84	-6.85	51.99	68.20	-16.21	peak
3	5746.000	102.03	-6.60	95.43	135.00	-39.57	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5636.400	57.80	-6.88	50.92	68.20	-17.28	peak
2	5646.800	58.59	-6.85	51.74	68.20	-16.46	peak
3	5746.800	114.88	-6.60	108.28	135.00	-26.72	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.400	102.65	-6.32	96.33	135.00	-38.67	peak
2	5932.400	58.13	-5.73	52.40	68.20	-15.80	peak
3	5940.800	57.92	-5.69	52.23	68.20	-15.97	peak



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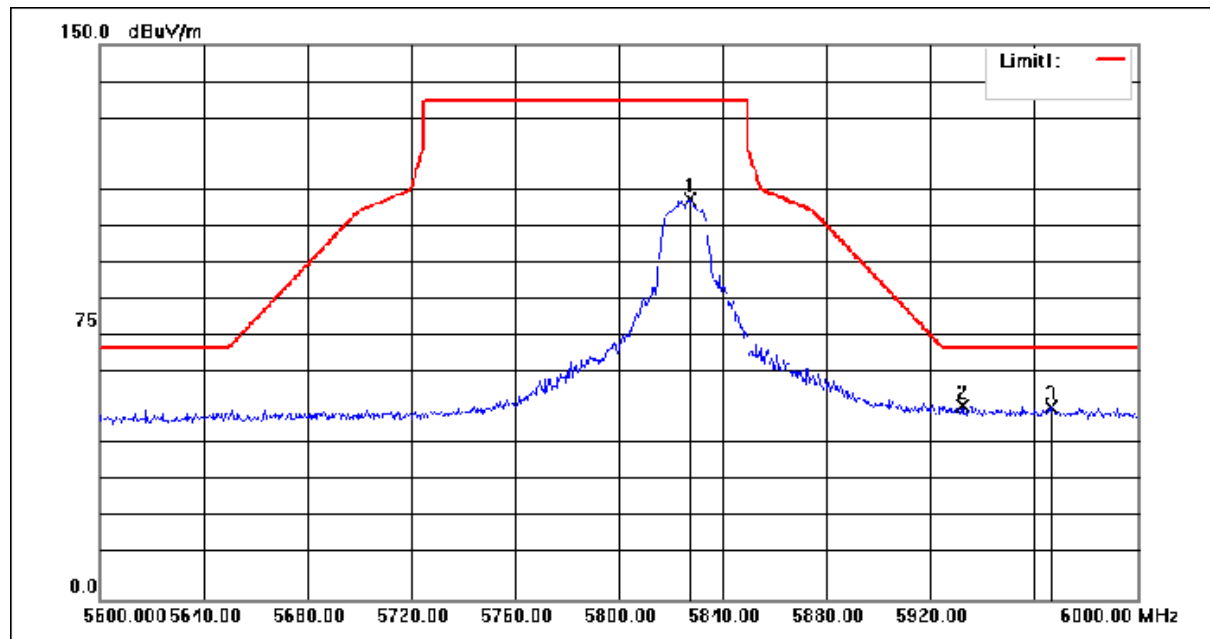
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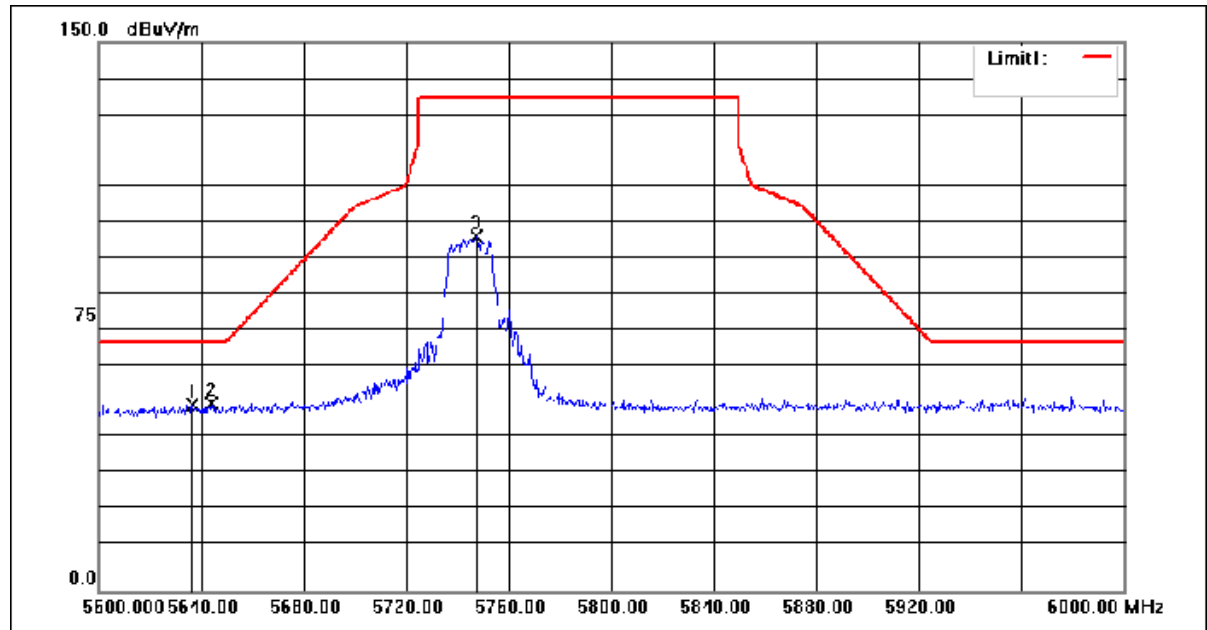
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5827.200	114.33	-6.31	108.02	135.00	-26.98	peak
2	5932.400	57.87	-5.73	52.14	68.20	-16.06	peak
3	5966.400	57.67	-5.55	52.12	68.20	-16.08	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5636.400	57.78	-6.88	50.90	68.20	-17.30	peak
2	5644.000	58.04	-6.85	51.19	68.20	-17.01	peak
3	5747.200	103.45	-6.60	96.85	135.00	-38.15	peak



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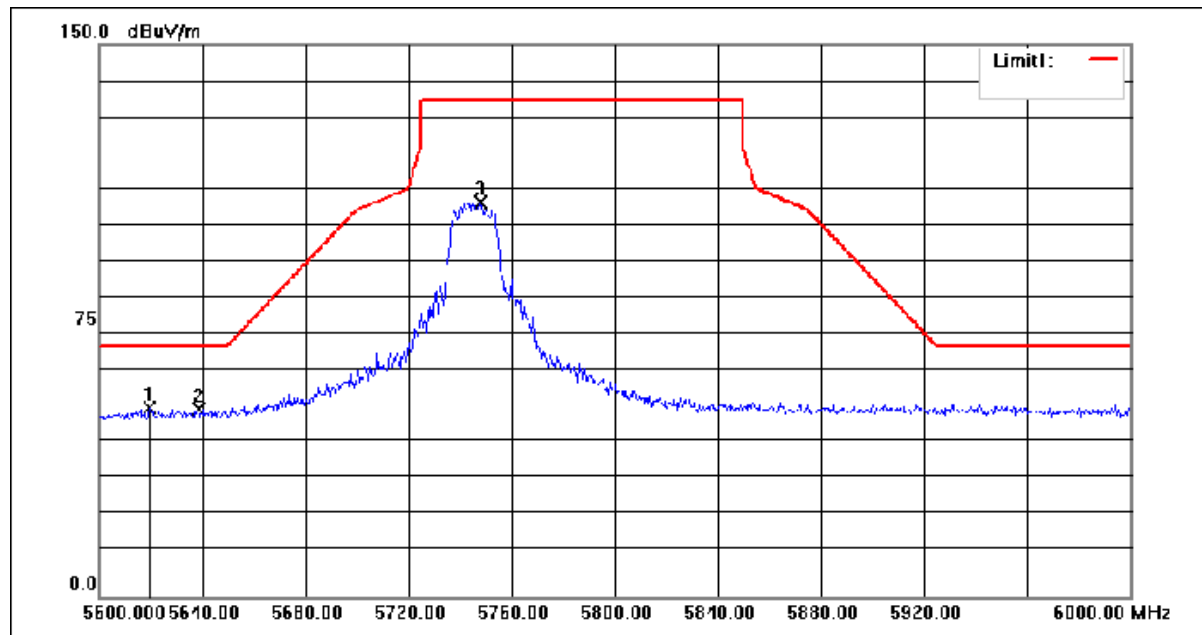
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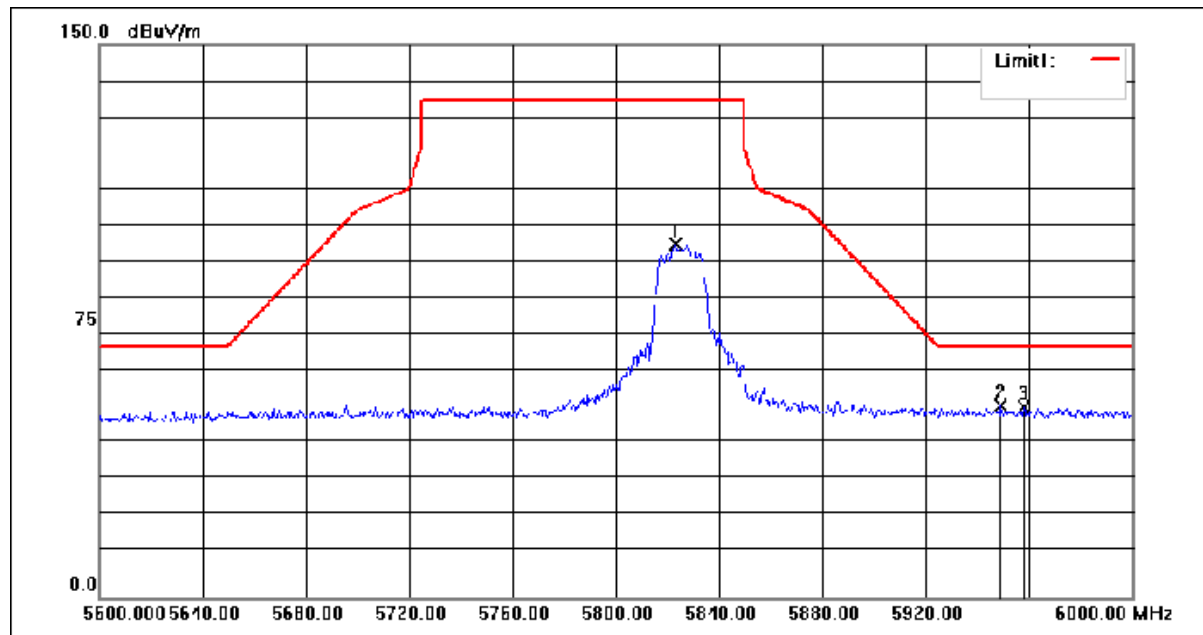
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



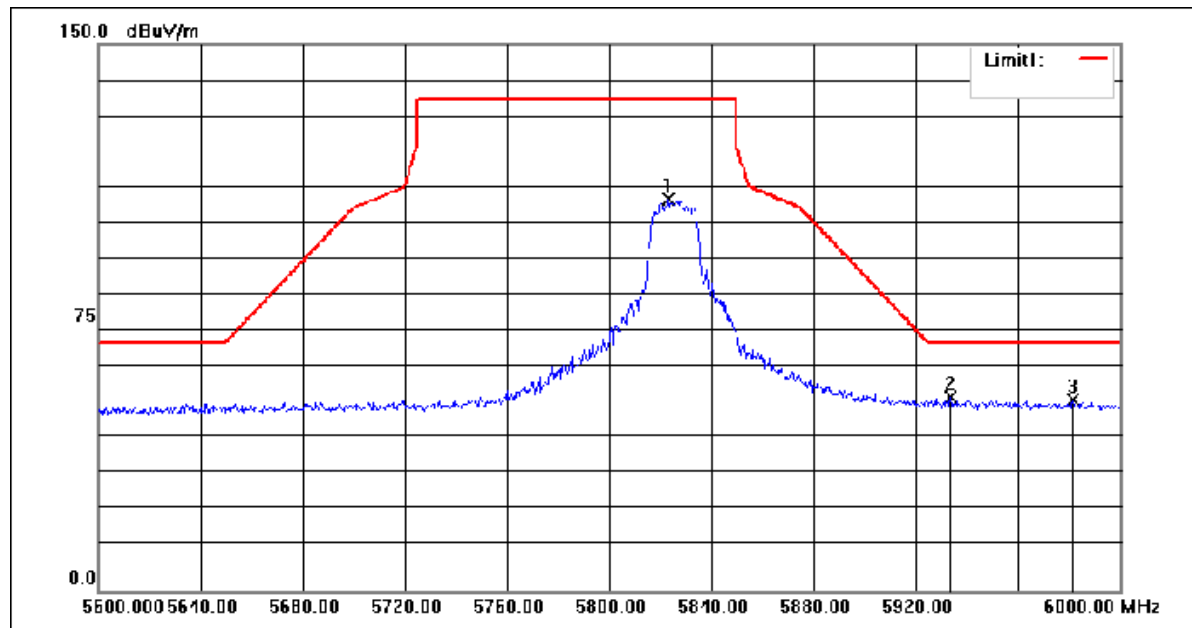
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5619.200	58.28	-6.92	51.36	68.20	-16.84	peak
2	5638.800	57.85	-6.87	50.98	68.20	-17.22	peak
3	5748.000	113.49	-6.59	106.90	135.00	-28.10	peak

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



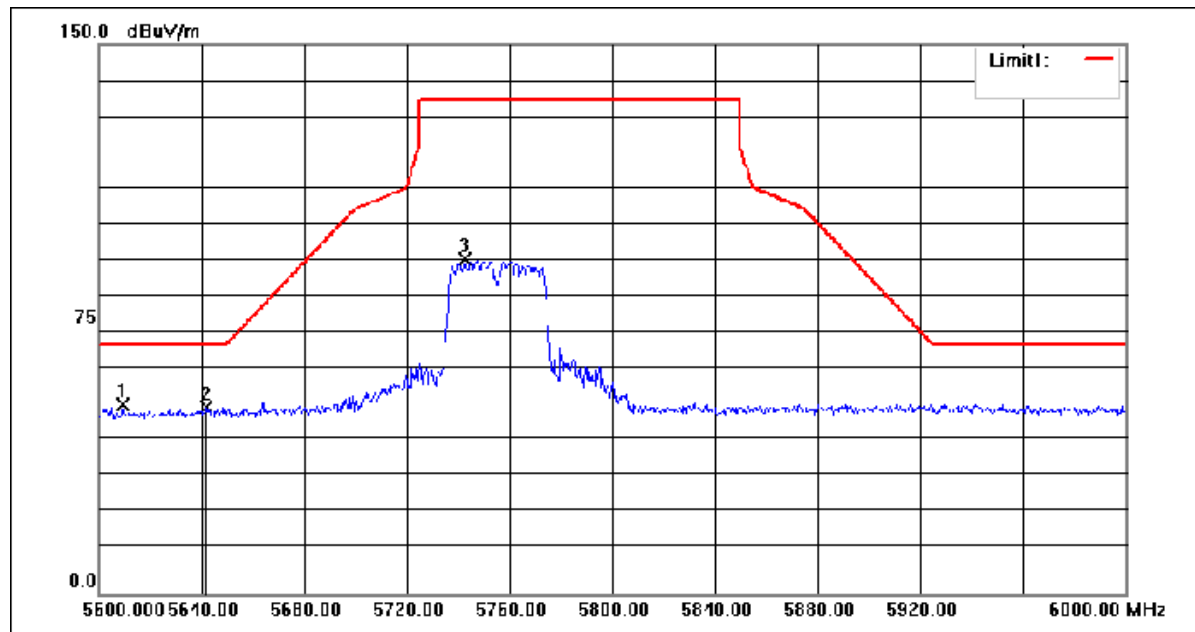
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5823.200	102.16	-6.33	95.83	135.00	-39.17	peak
2	5949.200	57.55	-5.64	51.91	68.20	-16.29	peak
3	5958.000	57.13	-5.59	51.54	68.20	-16.66	peak

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



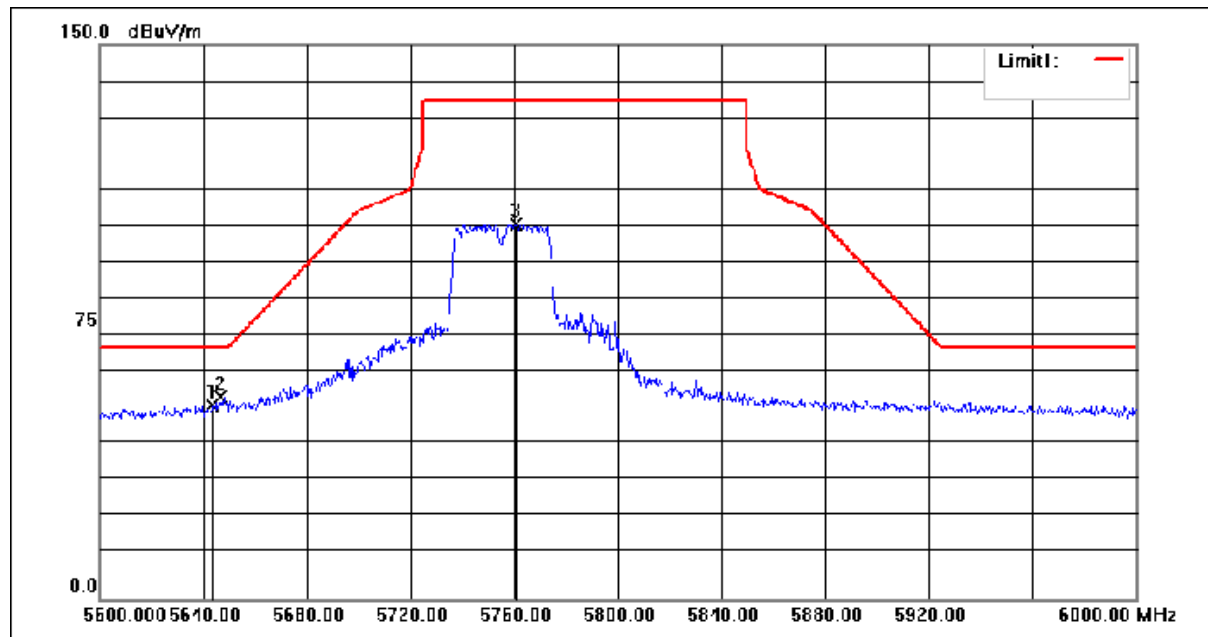
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5823.200	113.75	-6.33	107.42	135.00	-27.58	peak
2	5933.600	58.72	-5.73	52.99	68.20	-15.21	peak
3	5981.600	57.96	-5.47	52.49	68.20	-15.71	peak

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



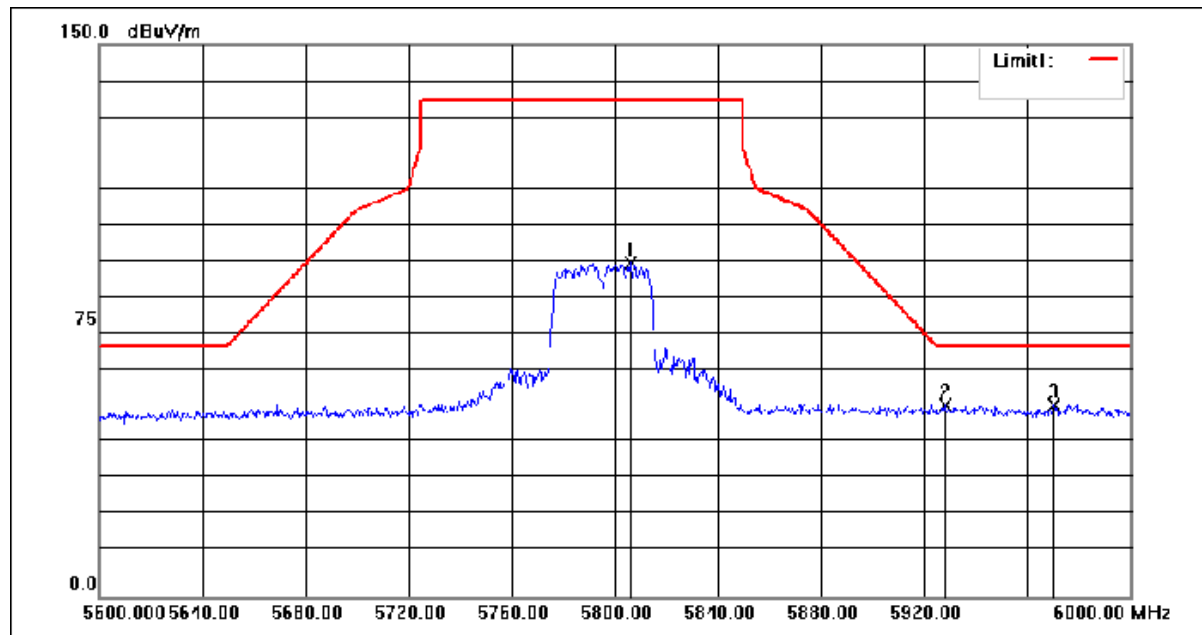
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5609.200	58.39	-6.95	51.44	68.20	-16.76	peak
2	5642.000	57.73	-6.87	50.86	68.20	-17.34	peak
3	5742.400	97.99	-6.61	91.38	135.00	-43.62	peak

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



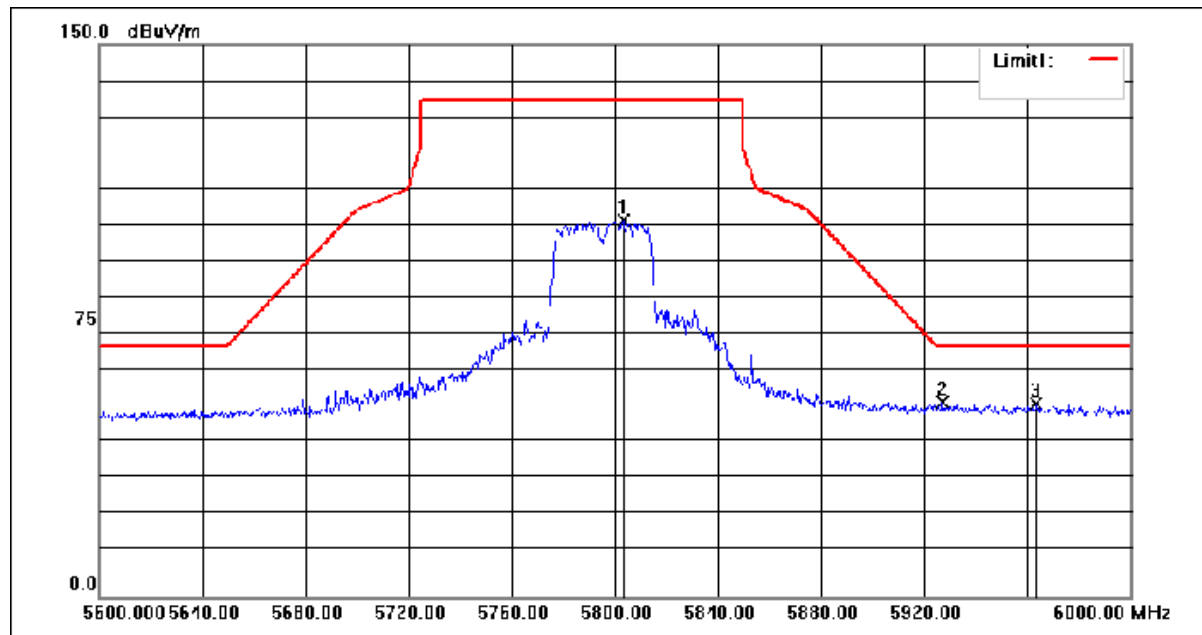
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5643.600	59.29	-6.85	52.44	68.20	-15.76	peak
2	5646.800	61.38	-6.85	54.53	68.20	-13.67	peak
3	5760.800	108.17	-6.56	101.61	135.00	-33.39	peak

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



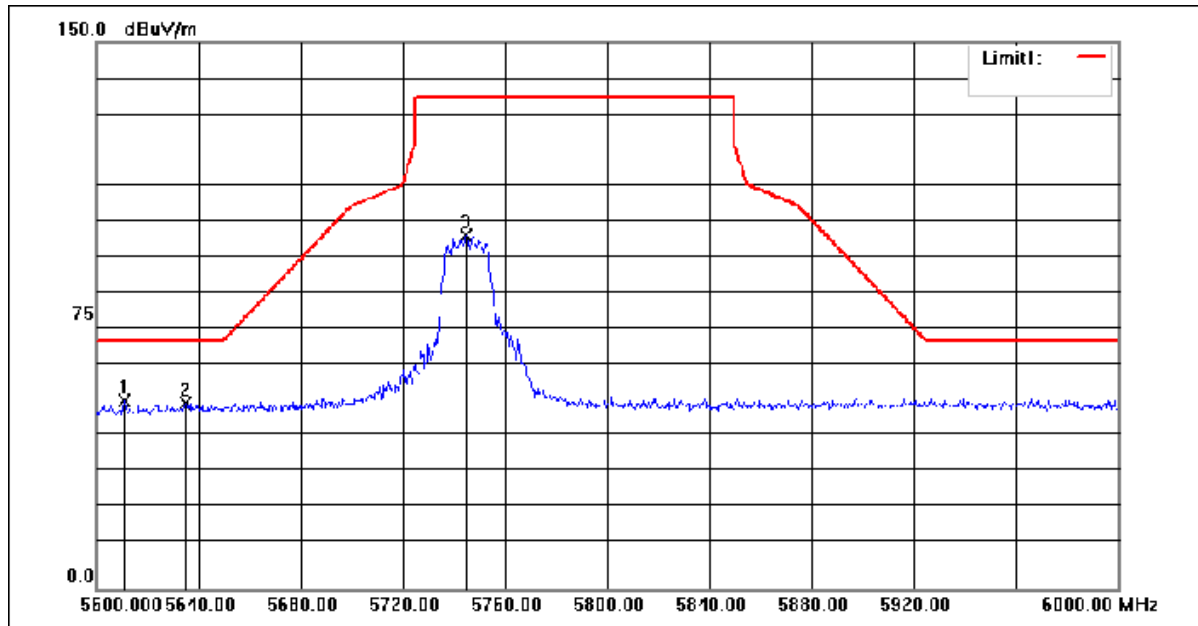
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5806.000	97.18	-6.43	90.75	135.00	-44.25	peak
2	5928.000	57.67	-5.76	51.91	68.20	-16.29	peak
3	5970.400	57.55	-5.53	52.02	68.20	-16.18	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5803.200	108.50	-6.45	102.05	135.00	-32.95	peak
2	5927.200	58.47	-5.77	52.70	68.20	-15.50	peak
3	5963.600	57.84	-5.56	52.28	68.20	-15.92	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5610.800	58.44	-6.94	51.50	68.20	-16.70	peak
2	5634.800	57.77	-6.88	50.89	68.20	-17.31	peak
3	5744.800	103.56	-6.60	96.96	135.00	-38.04	peak



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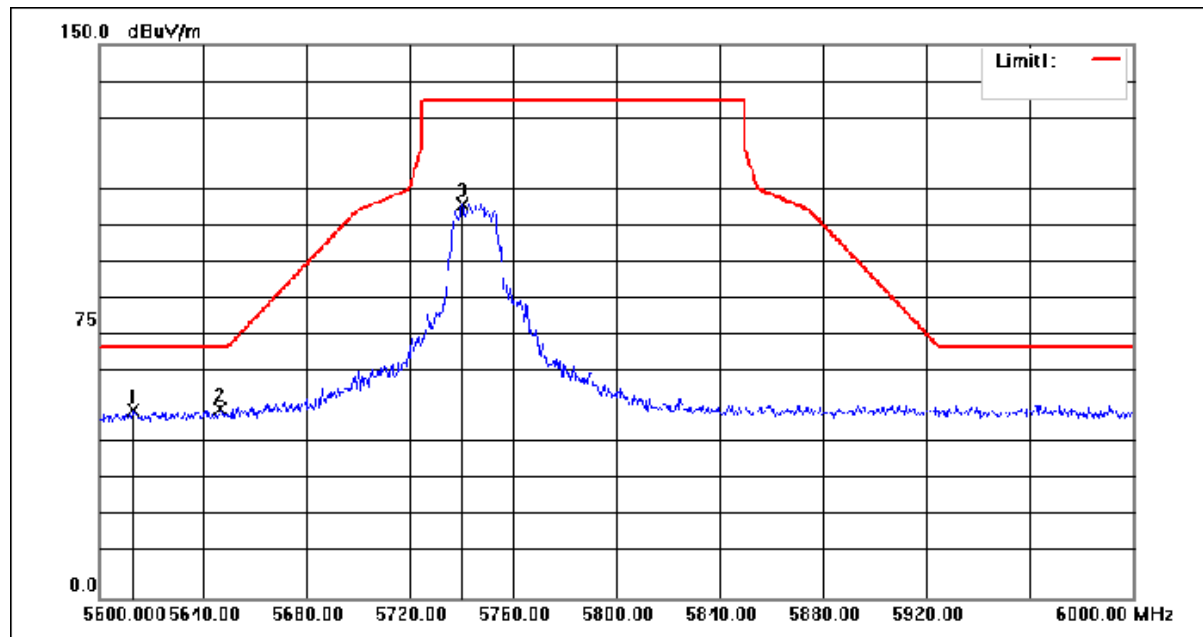
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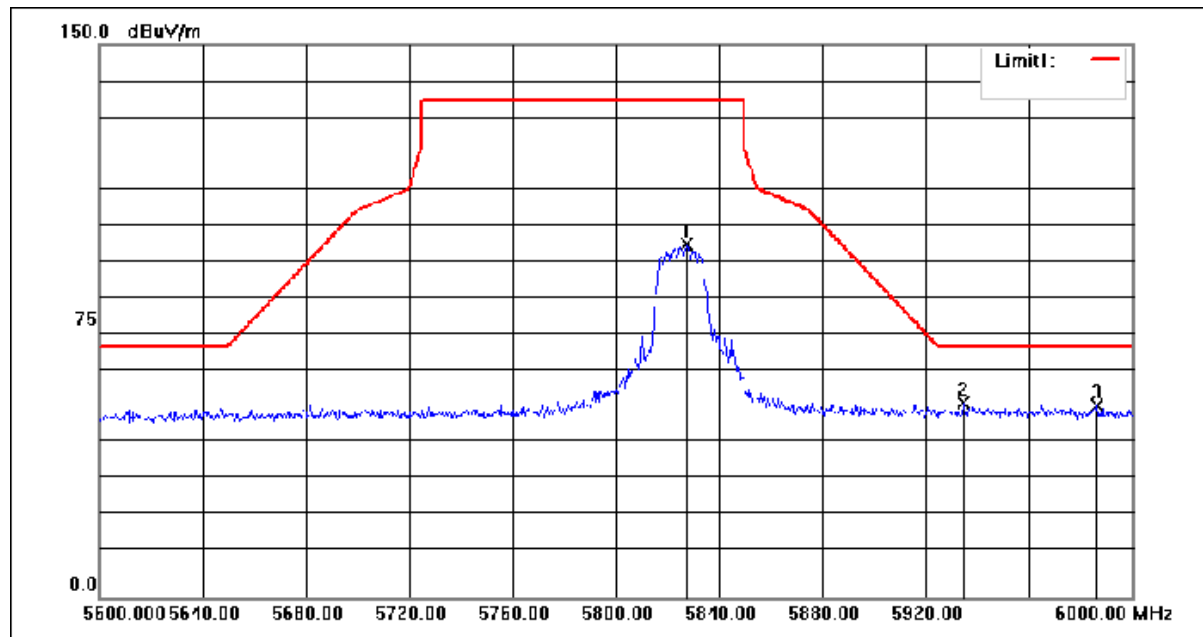
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



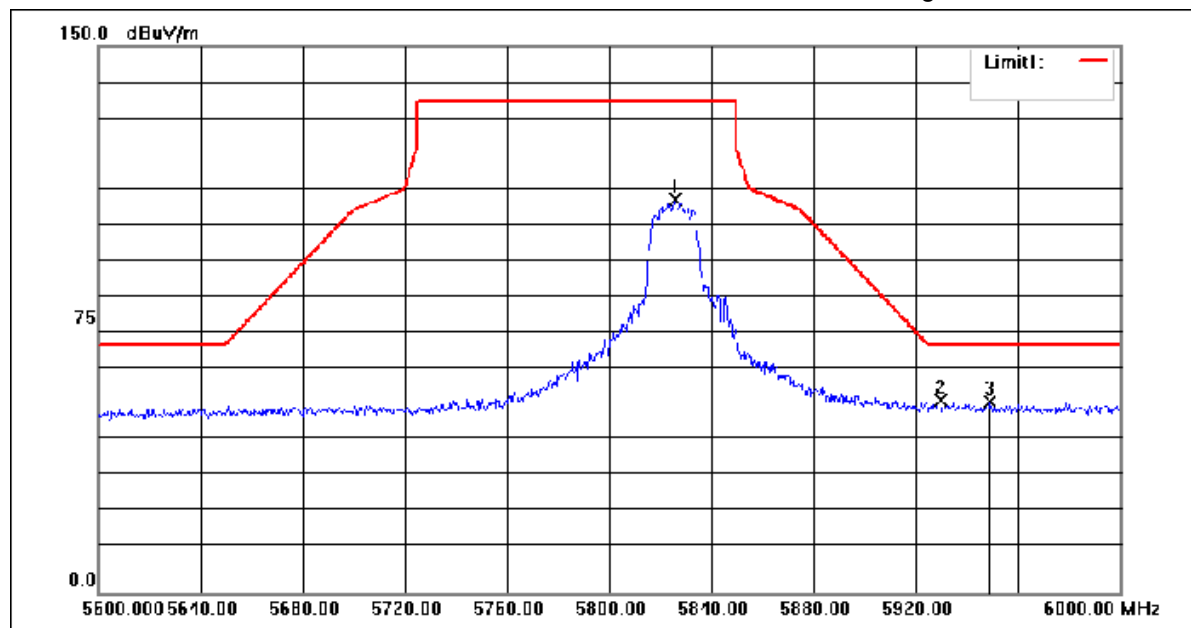
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5613.200	57.90	-6.94	50.96	68.20	-17.24	peak
2	5646.800	57.92	-6.85	51.07	68.20	-17.13	peak
3	5740.400	113.42	-6.61	106.81	135.00	-28.19	peak

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



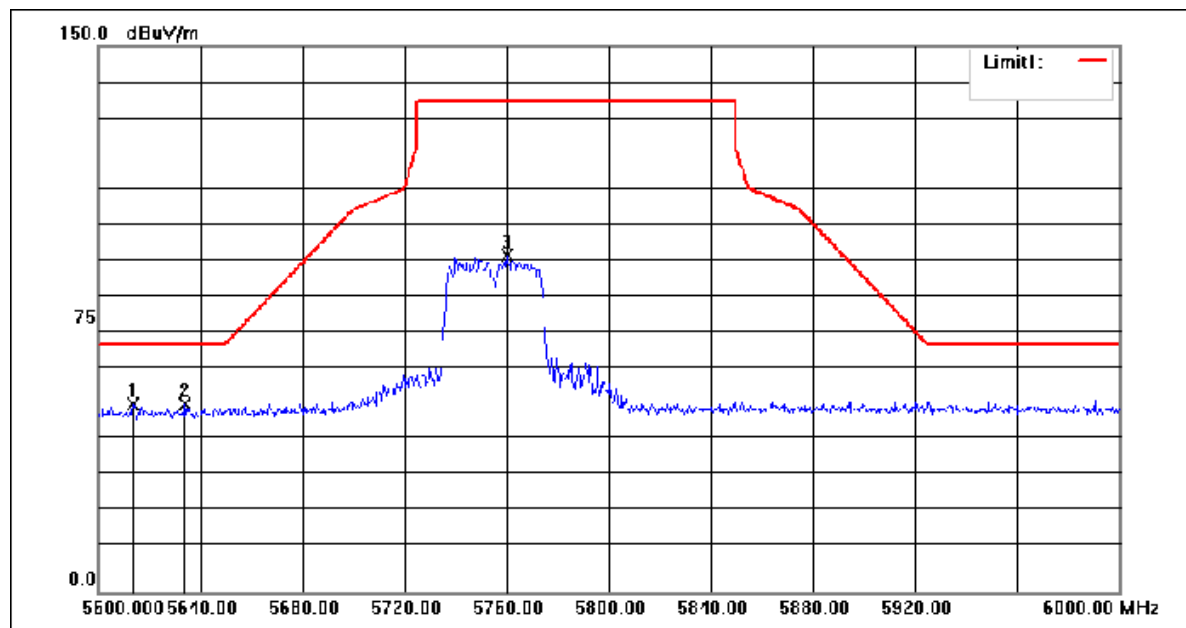
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5827.600	102.14	-6.31	95.83	135.00	-39.17	peak
2	5934.800	58.37	-5.72	52.65	68.20	-15.55	peak
3	5986.400	57.52	-5.43	52.09	68.20	-16.11	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5825.600	113.95	-6.32	107.63	135.00	-27.37	peak
2	5930.000	58.41	-5.74	52.67	68.20	-15.53	peak
3	5949.200	58.07	-5.64	52.43	68.20	-15.77	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5613.600	58.40	-6.94	51.46	68.20	-16.74	peak
2	5634.000	58.43	-6.88	51.55	68.20	-16.65	peak
3	5760.000	98.90	-6.56	92.34	135.00	-42.66	peak



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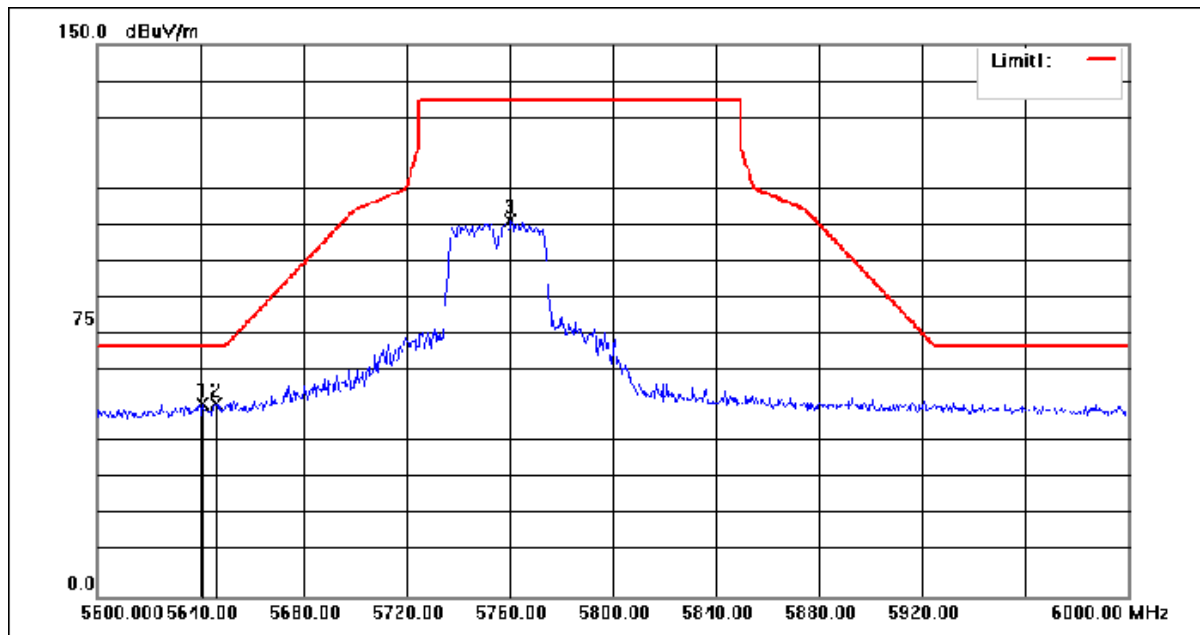
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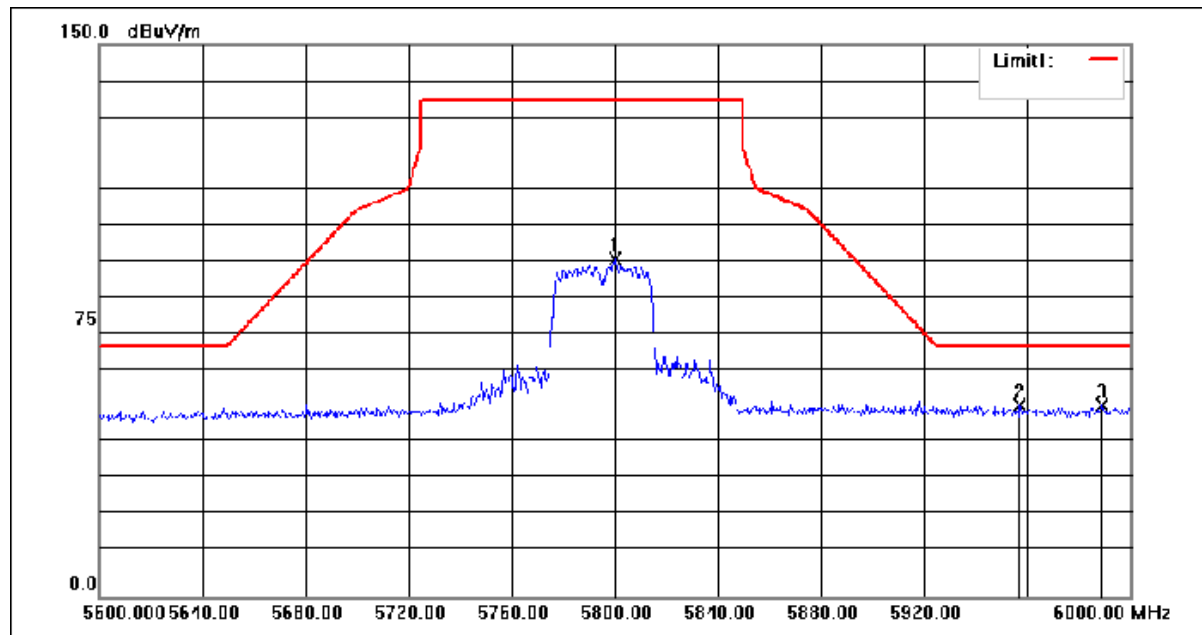
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



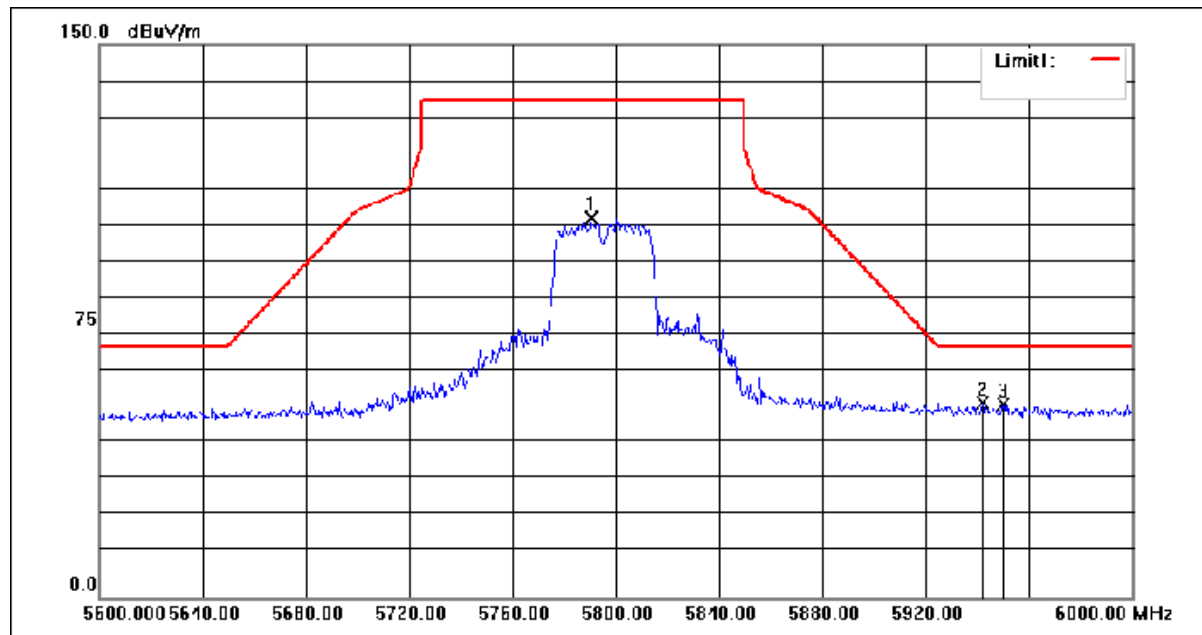
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5640.800	59.14	-6.87	52.27	68.20	-15.93	peak
2	5646.000	59.34	-6.85	52.49	68.20	-15.71	peak
3	5760.400	108.72	-6.56	102.16	135.00	-32.84	peak

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



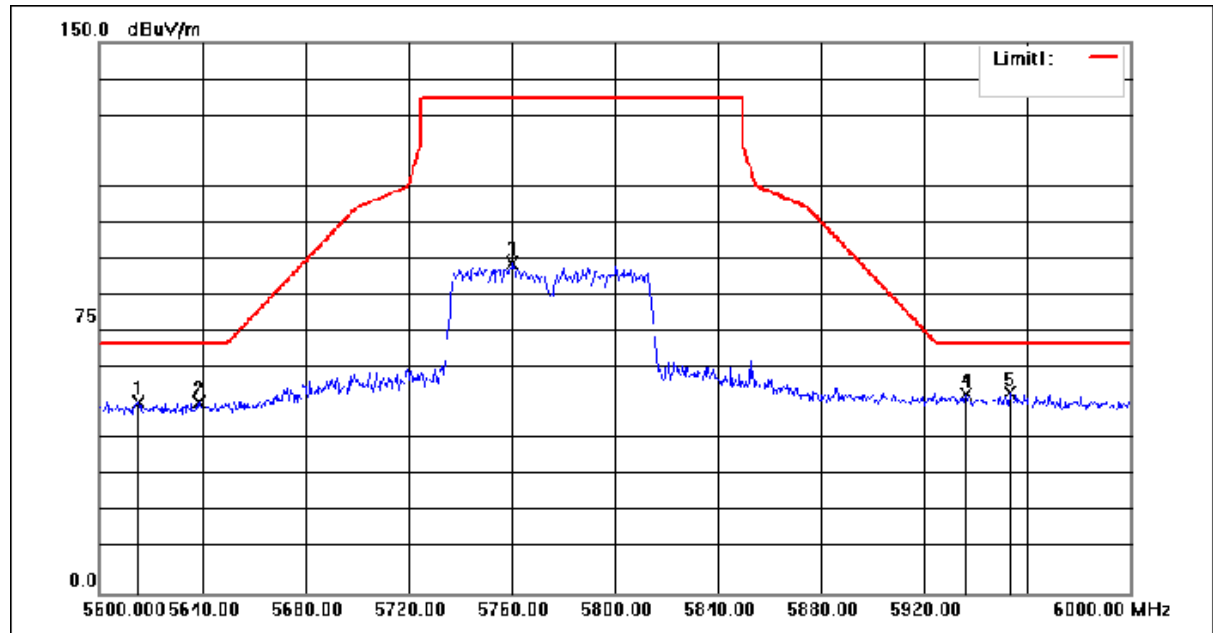
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1	5800.000	98.16	-6.46	91.70	135.00	-43.30	peak
2	5956.800	57.57	-5.60	51.97	68.20	-16.23	peak
3	5989.200	57.30	-5.42	51.88	68.20	-16.32	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5790.400	109.41	-6.48	102.93	135.00	-32.07	peak
2	5942.000	58.22	-5.68	52.54	68.20	-15.66	peak
3	5950.000	57.96	-5.64	52.32	68.20	-15.88	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5615.200	59.01	-6.93	52.08	68.20	-16.12	peak
2	5638.800	58.80	-6.87	51.93	68.20	-16.27	peak
3	5760.400	96.50	-6.56	89.94	135.00	-45.06	peak
4	5936.400	59.81	-5.71	54.10	68.20	-14.10	peak
5	5953.200	60.18	-5.61	54.57	68.20	-13.63	peak



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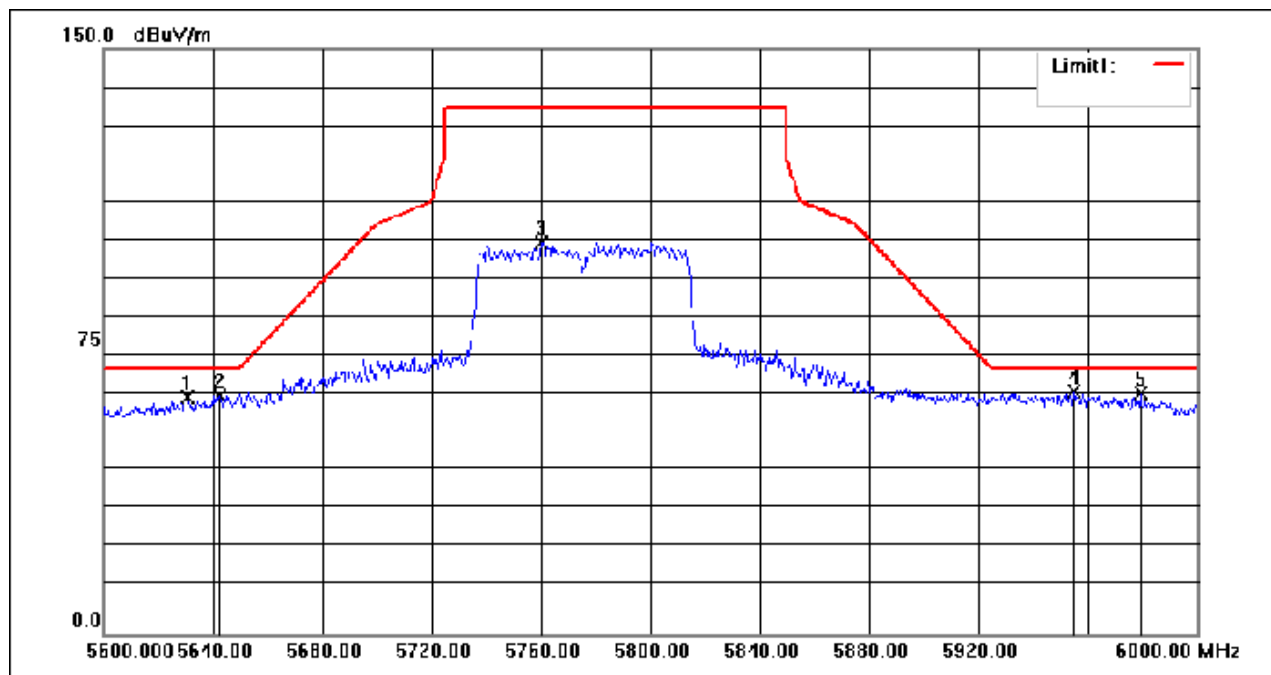
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBUV)	Correction factor(dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	5630.800	67.54	-6.89	60.65	68.20	-7.55	peak
2	5642.400	67.91	-6.87	61.04	68.20	-7.16	peak
3	5760.000	106.97	-6.56	100.41	135.00	-34.59	peak
4	5954.800	67.60	-5.61	61.99	68.20	-6.21	peak
5	5979.200	67.32	-5.47	61.85	68.20	-6.35	peak



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7.10 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.

7.10.1 E.U.T. Operation

Operating Environment:

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

Test mode: b:TX mode (Band 1)_Powered by AC 24V and 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:TX mode (Band 2A)_Powered by AC 24V and 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.

d:TX mode (Band 2C)_Powered by AC 24V and 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.

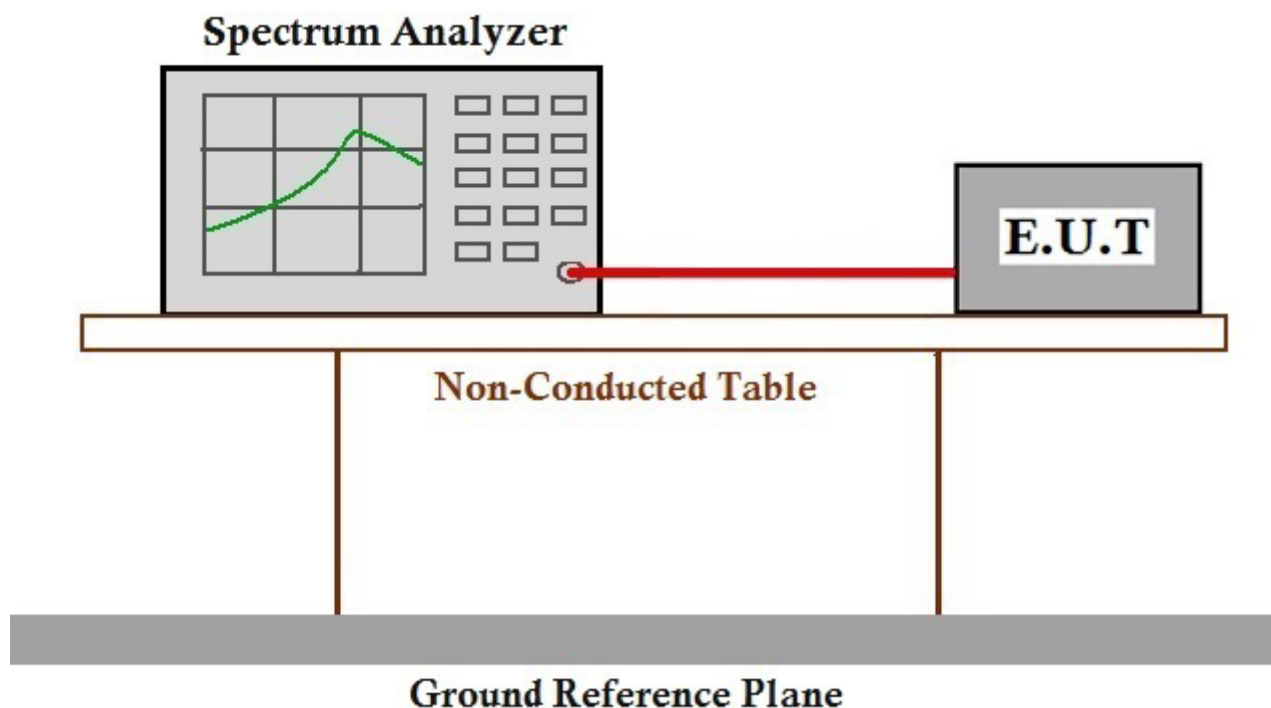
e:TX mode (Band 3)_Powered by AC 24V and keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data 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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7.10.2 Test Setup Diagram



7.10.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211200092502

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 -



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