

# TEST REPORT

**Application No.:** SHEM2106005654CR  
**FCC ID:** UCZ-W482CA-Z  
**IC:** 8575A-W482CAZ  
**Applicant:** Lorex Technology Inc.  
**Address of Applicant:** 250 Royal Crest Court Markham Ontario Canada L3R 3S1  
**Manufacturer:** Lorex Technology Inc.  
**Address of Manufacturer:** 250 Royal Crest Court Markham Ontario Canada L3R 3S1  
**Equipment Under Test (EUT):**  
**EUT Name:** 1080p FHD Wi-Fi Deterrence Camera  
**Model No.:** W482CA-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:** 2021-06-04  
**Date of Test:** 2021-06-04 to 2021-06-13  
**Date of Issue:** 2021-06-13

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

*Parlam Zhan*

Parlam Zhan  
Laboratory Manager

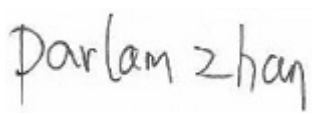
The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant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



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Revision Record			
Version	Description	Date	Remark
00	Original	2021-06-13	/

Authorized for issue by:			
			
		<hr/> <b>Micheal Niu / Project Engineer</b>	
			
		<hr/> <b>Parlam Zhan / Reviewer</b>	



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## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	RSS-Gen Clause 6.8	N/A	Pass
Transmission in the Absence of Data	47 CFR Part 15, Subpart C 15.407 (c)	RSS-247 Section 6.4(a)	N/A	Pass
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 & 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 C 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 C 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 C 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 C 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 & 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 & 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 C 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 5V by Adapter
Test voltage:	AC 120V/60Hz

#### For FCC

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n(HT20)/ac(HT20)	5180-5240	4
		802.11n(HT40)/ac(HT40)	5190-5230	2
		802.11ac(HT80)	5210	1
	UNII Band II-A	802.11a/n(HT20)/ac(HT20)	5260-5320	4
		802.11n(HT40)/ac(HT40)	5270-5310	2
		802.11ac(HT80)	5290	1
	UNII Band II-C	802.11a/n(HT20)/ac(HT20)	5500-5700	11
		802.11n(HT40)/ac(HT40)	5510-5670	5
		802.11ac(HT80)	5530~5610	2
UNII Band III	802.11a/n(HT20)/ac(HT20)	5745-5825	5	
	802.11n(HT40)/ac(HT40)	5755-5795	2	
	802.11ac(HT80)	5775	1	
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
Date Rate:	802.11a:6/9/12/18/24/36/48/54Mbps 802.11n:MCS0-MCS7 802.11ac:VHT MCS0-MCS7			
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz 802.11n(HT40)/ac(HT40): 40MHz 802.11ac(HT80): 80MHz			
Antenna Gain:	Band 1 Ant 1:2.03dBi, Ant 2:4.35dBi (Provided by the manufacturer) Band 2 Ant 1:4dBi, Ant 2:4.08dBi (Provided by the manufacturer) Band 3 Ant 1:4.44dBi, Ant 2:3.21dBi (Provided by the manufacturer) Band 4 Ant 1:2.24dBi, Ant 2:6.81dBi (Provided by the manufacturer) Directional gain: Band 1: 6.35dBi; Band 2: 7.05dBi; Band 3: 6.88dBi Band 4: 8.11dBi			
Antenna Type:	PIFA Antenna			
DFS Function:	Slave without Radar detection			
TPC Function:	Not Support			



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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(HT20)	5260-5320	4
		802.11n(HT40)/ac(HT40)	5270-5310	2
		802.11ac(HT80)	5290	1
	UNII Band II-C	802.11a/n(HT20)/ac(HT20)	5500-5700	9
		802.11n(HT40)/ac(HT40)	5510-5670	4
		802.11ac(HT80)	5530~5610	1
	UNII Band III	802.11a/n(HT20)/ac(HT20)	5745-5825	5
		802.11n(HT40)/ac(HT40)	5755-5795	2
		802.11ac(HT80)	5775	1
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)			
Date Rate:	802.11a:6/9/12/18/24/36/48/54Mbps 802.11n:MCS0-MCS7 802.11ac:VHT MCS0-MCS7			
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz 802.11n(HT40)/ac(HT40): 40MHz 802.11ac(HT80): 80MHz			
Antenna Gain:	Band 1 Ant 1:2.03dBi, Ant 2:4.35dBi (Provided by the manufacturer) Band 2 Ant 1:4dBi, Ant 2:4.08dBi (Provided by the manufacturer) Band 3 Ant 1:4.44dBi, Ant 2:3.21dBi (Provided by the manufacturer) Band 4 Ant 1:2.24dBi, Ant 2:6.81dBi (Provided by the manufacturer) Directional gain: Band 1: 6.35dBi; Band 2: 7.05dBi; Band 3: 6.88dBi Band 4: 8.11dBi			
Antenna Type:	PIFA Antenna			
DFS Function:	Slave without Radar detection			
TPC Function:	Not Support			



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4.2 Power level setting using in test

Channel	802.11a	802.11a	802.11n(HT20)	802.11n(HT20)	802.11ac(VHT20)	802.11ac(VHT20)
	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
36	61	61	55	55	55	55
40	61	61	55	55	55	55
48	61	61	55	55	55	55
52	61	61	55	55	55	55
64	61	61	55	55	55	55
100	56	56	52	52	52	52
116	56	56	52	52	52	52
132	56	56	52	52	52	52
140	56	56	52	52	52	52
149	64	64	62	62	62	62
157	64	64	62	62	62	62
165	64	64	62	62	62	62

Channel	802.11n(HT40)	802.11n(HT40)	802.11ac(VHT40)	802.11ac(VHT40)
	Ant 1	Ant 2	Ant 1	Ant 2
38	54	54	54	54
46	54	54	54	54
54	54	54	54	54
62	54	54	54	54
102	51	51	51	51
110	51	51	51	51
134	51	51	51	51
151	61	61	61	61
159	61	61	61	61

Channel	802.11ac(VHT80)	802.11ac(VHT80)
	Ant 1	Ant 2
42	54	54
58	54	54
106	51	51
122	51	51
155	61	61



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### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC Adapter	I.T.E. POWER SUPPLY	S018BYU1200150	N/A
Laptop	Lenovo	ThinkPad X100e	/

### 4.4 Measurement Uncertainty

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

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



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#### 4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

Tel: +86 512 5735 5888

Fax: +86 512 5737 0818

No tests were sub-contracted.

#### 4.6 Test Facility

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

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

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

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

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

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

Compliance Certification Services 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 (ISED) Canada as an accredited testing laboratory.

CAB Identifier: CN0072.

- **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-11600, C-11707, T-11499, G-10216 respectively.

#### 4.7 Deviation from Standards

None

#### 4.8 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
<b>Conducted Emission at Mains Terminals (150kHz-30MHz)</b>						
1	EMI Test Receive	R&S	ESCI	100781	02/01/2021	01/31/2022
2	LISN	R&S	ENV216	101604	10/19/2020	10/18/2021
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/19/2020	10/18/2021
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
5	CE test Cable	Thermax	/	14	10/17/2020	10/16/2021
6	Test Software	Farad	EZ-EMC	CCS-03A1	N.C.R	N.C.R
<b>RF Conducted Test</b>						
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	12/02/2020	12/01/2021
3	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2021	01/31/2022
4	Signal Generator	Agilent	N5182A	MY50142015	09/25/2020	09/24/2021
5	Radio Communication Test Station	Anritsu	MT8000A	6262012849	N/A	N/A
6	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	N/A	N/A
7	Universal Radio Communication Tester	R&S	CMW500	159275	10/19/2020	10/18/2021
8	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022
9	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022
10	Switcher	CCSRF	FY562	KUS2001M001-3	10/19/2020	10/18/2021
11	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
13	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
14	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
15	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
16	Conducted test cable	/	RF01-RF04	/	04/15/2021	04/14/2022
17	Software	BST	TST-PASS	N/A	N/A	N/A
18	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022
19	Thermometer	Anymetre	TH603	CCS007	10/16/2020	10/15/2021
<b>RF Radiated Test</b>						
1	Spectrum Analyzer	R&S	FSV40	101493	10/19/2020	10/18/2021
2	Signal Generator	Agilent	E8257C	MY43321570	10/19/2020	10/18/2021
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/22/2019	06/21/2021
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	Horn-antenna(40-60GHz)	REBES	SAZ-2410-19-S1	06299-01	N/A	N/A
10	Horn-antenna(50-75GHz)	REBES	SAZ-2410-15-S1	01731-01	N/A	N/A
11	Horn-antenna(75-110GHz)	REBES	SAZ-2410-10-S1	01773-09	N/A	N/A
12	Horn-antenna(110-170GHz)	REBES	SAZ-2410-06-S1	01776-05	N/A	N/A
13	Horn-antenna(140-220GHz)	REBES	SAZ-2410-05-S1	01759-04	N/A	N/A
14	Horn-antenna(220-325GHz)	REBES	SAR-2309-03-S2	06300-01	N/A	N/A
15	Extended waveguide(40-60GHz)	REBES	SWG-19025-FB	06303-01	N/A	N/A
16	Extended waveguide(50-75GHz)	REBES	SWG-15025-FB	01525-09	N/A	N/A



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17	Extended waveguide(75-110GHz)	REBES	SWG-10025-FB	01509-01	N/A	N/A
18	Extended waveguide(110-170GHz)	REBES	SWG-06025-FB	06302-01	N/A	N/A
19	Extended waveguide(140-220GHz)	REBES	SWG-05025-FB	06304-01	N/A	N/A
20	Extended waveguide(220-325GHz)	REBES	SWG-03025-FB	06301-01	N/A	N/A
21	Harmonic mixer(110-170GHz)	REBES	STH-06SF-S1	06110-01	N/A	N/A
22	Harmonic mixer(40-60GHz)	REBES	STH-19SF-S1	06937-01	N/A	N/A
23	Waveguide Harmonic Mixer(50-75GHz)	KEYSIGHT	M1970V	MY51390966	N/A	N/A
24	Waveguide Harmonic Mixer(50-75GHz) cable	Silverline	SLU18-SMSM -01.00M	99612	N/A	N/A
25	Waveguide Harmonic Mixer(75-110GHz)	KEYSIGHT	M1970W	MY51430883	N/A	N/A
26	Waveguide Harmonic Mixer(75-110GHz) cable	Silverline	SLU18-SMSM -01.00M	94202	N/A	N/A
27	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
28	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/23/2020	10/22/2021
29	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
30	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
31	Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
32	Filter (5690 MHz~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
33	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
34	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
35	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
36	Filter (1745 MHz~1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
37	Filter (1922 MHz~1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
38	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
39	Filter (1532 MHz~1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
40	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
41	RE test cable	/	RE01-RE04	/	04/15/2021	04/14/2022
42	Software	Farad	EZ-EMC	CCS-03A1	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 and antenna 2 is PIFA Antenna, and all on the main PCB and no consideration of replacement.

Antenna gain for following:

	Ant1	Ant2
Band1	2.03dBi	4.35dBi
Band2	4.00dBi	4.08dBi
Band3	4.44dBi	3.21dBi
Band4	2.24dBi	6.81dBi

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 C 15.407 (c)

### 6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

WIFI chip (RTL8822BS) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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## 7 Radio Spectrum Matter Test Results

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

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

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

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.



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7.1.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case: b:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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

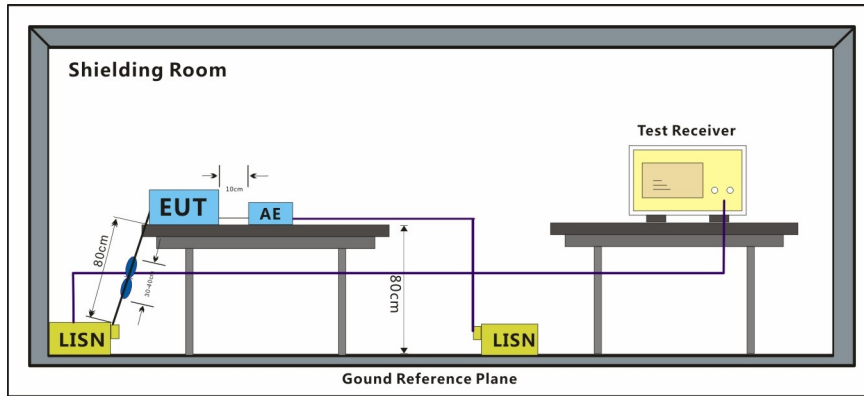
The worst case for final test:

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



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### 7.1.2 Test Setup Diagram



### 7.1.3 Measurement Procedure and Data

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

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

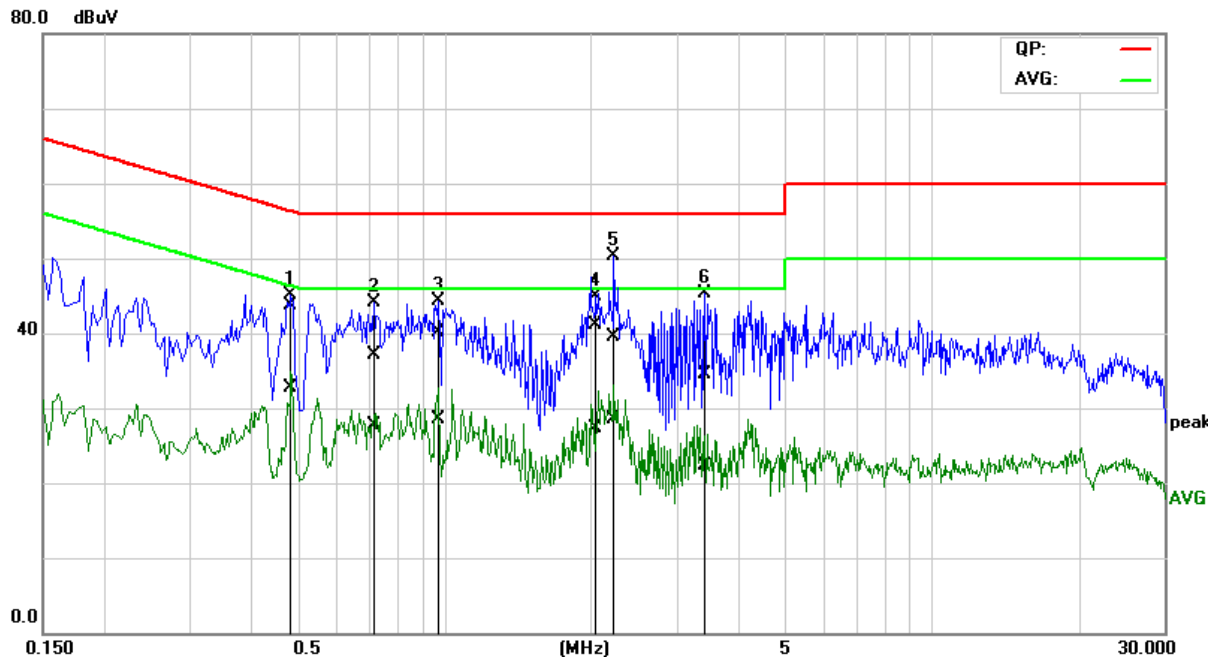


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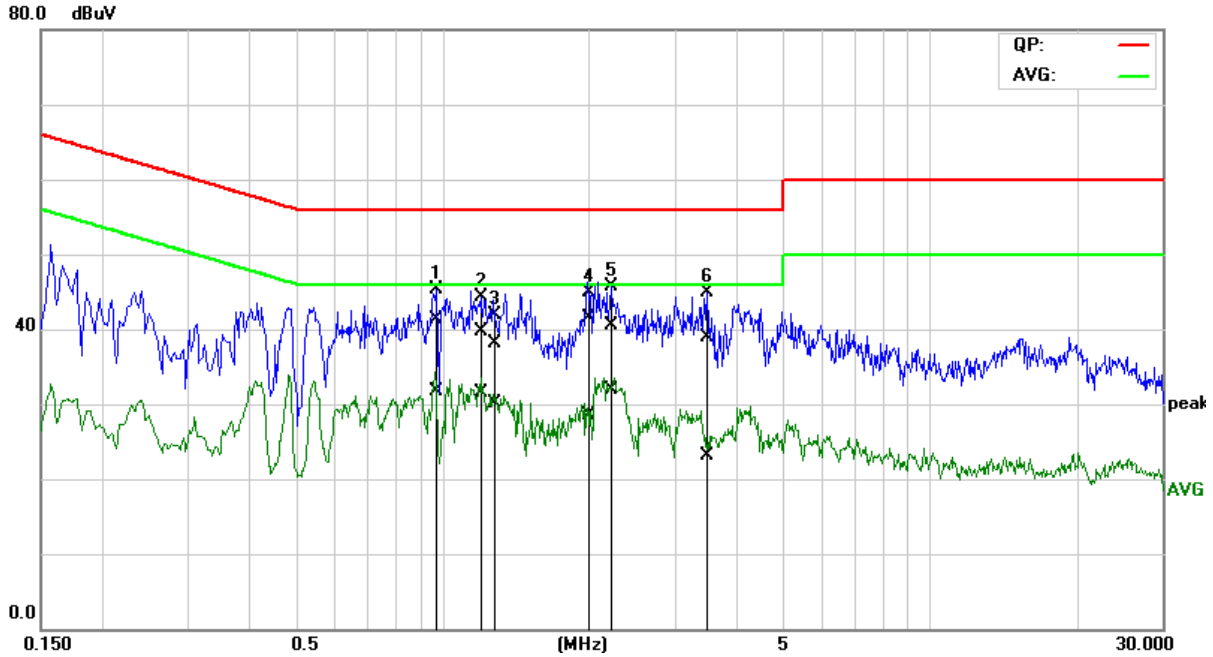
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.4872	24.19	13.22	19.46	43.65	32.68	56.22	46.22	-12.57	-13.54	Pass
2	0.7192	17.70	8.18	19.49	37.19	27.67	56.00	46.00	-18.81	-18.33	Pass
3	0.9683	20.44	8.93	19.57	40.01	28.50	56.00	46.00	-15.99	-17.50	Pass
4	2.0201	21.35	7.69	19.67	41.02	27.36	56.00	46.00	-14.98	-18.64	Pass
5	2.2361	19.85	8.73	19.69	39.54	28.42	56.00	46.00	-16.46	-17.58	Pass
6	3.3928	14.65	2.62	19.78	34.43	22.40	56.00	46.00	-21.57	-23.60	Pass



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Mode e:Line:Neutral Line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.9617	21.82	12.16	19.57	41.39	31.73	56.00	46.00	-14.61	-14.27	Pass
2	1.2065	20.09	11.99	19.60	39.69	31.59	56.00	46.00	-16.31	-14.41	Pass
3	1.2841	18.50	10.43	19.61	38.11	30.04	56.00	46.00	-17.89	-15.96	Pass
4	2.0088	21.92	8.92	19.67	41.59	28.59	56.00	46.00	-14.41	-17.41	Pass
5*	2.2325	20.79	12.16	19.69	40.48	31.85	56.00	46.00	-15.52	-14.15	Pass
6	3.4842	19.16	3.24	19.79	38.95	23.03	56.00	46.00	-17.05	-22.97	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: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1006 mbar

Test mode b:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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

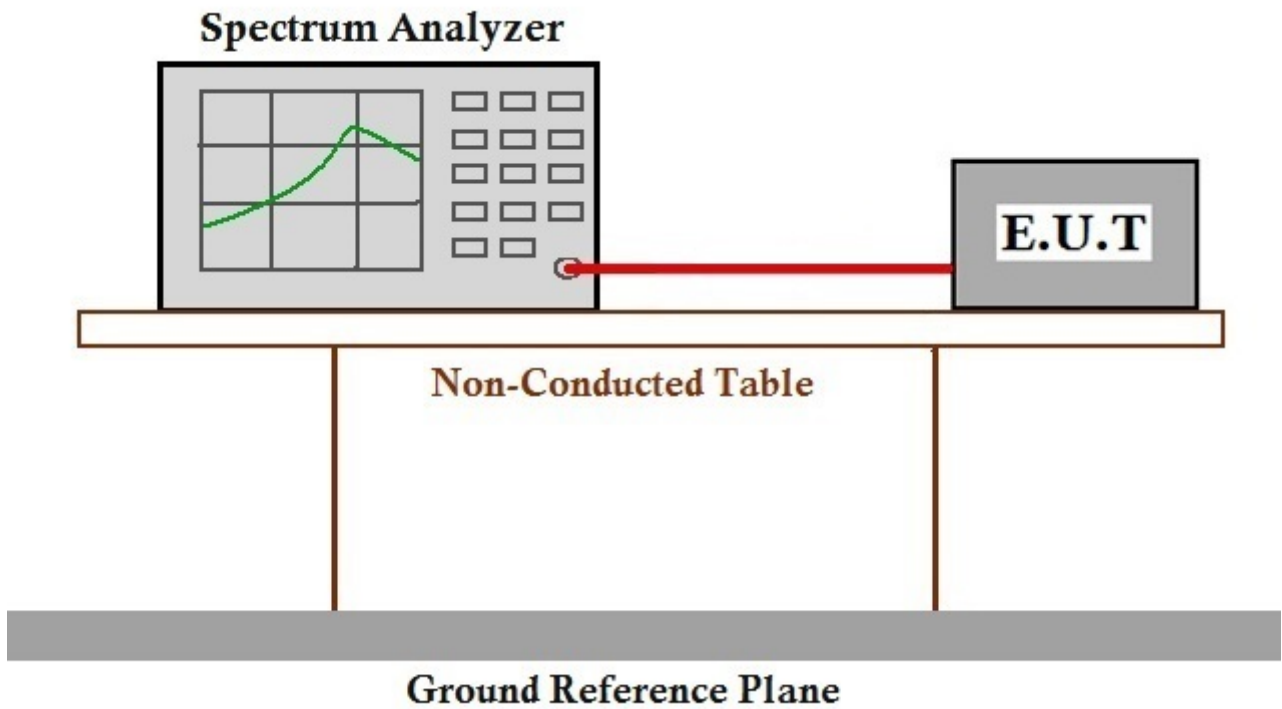
d:TX mode (Band 2C)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the 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)\_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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7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210600565402



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### 7.3 99% Bandwidth

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

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

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1006 mbar

Test mode: b:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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

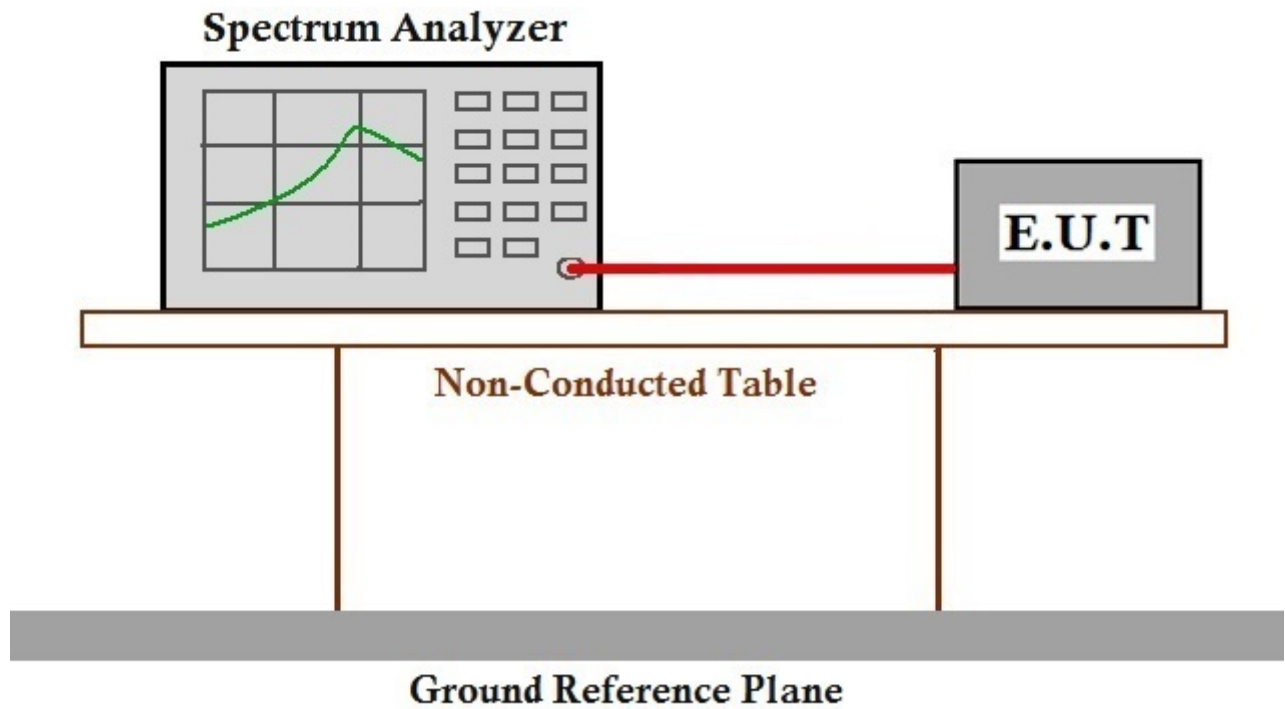
d:TX mode (Band 2C)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the 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)\_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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### 7.3.2 Test Setup Diagram



### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210600565402



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## 7.4 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1006 mbar

Test mode: b:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c:TX mode (Band 2A)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); 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)\_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)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

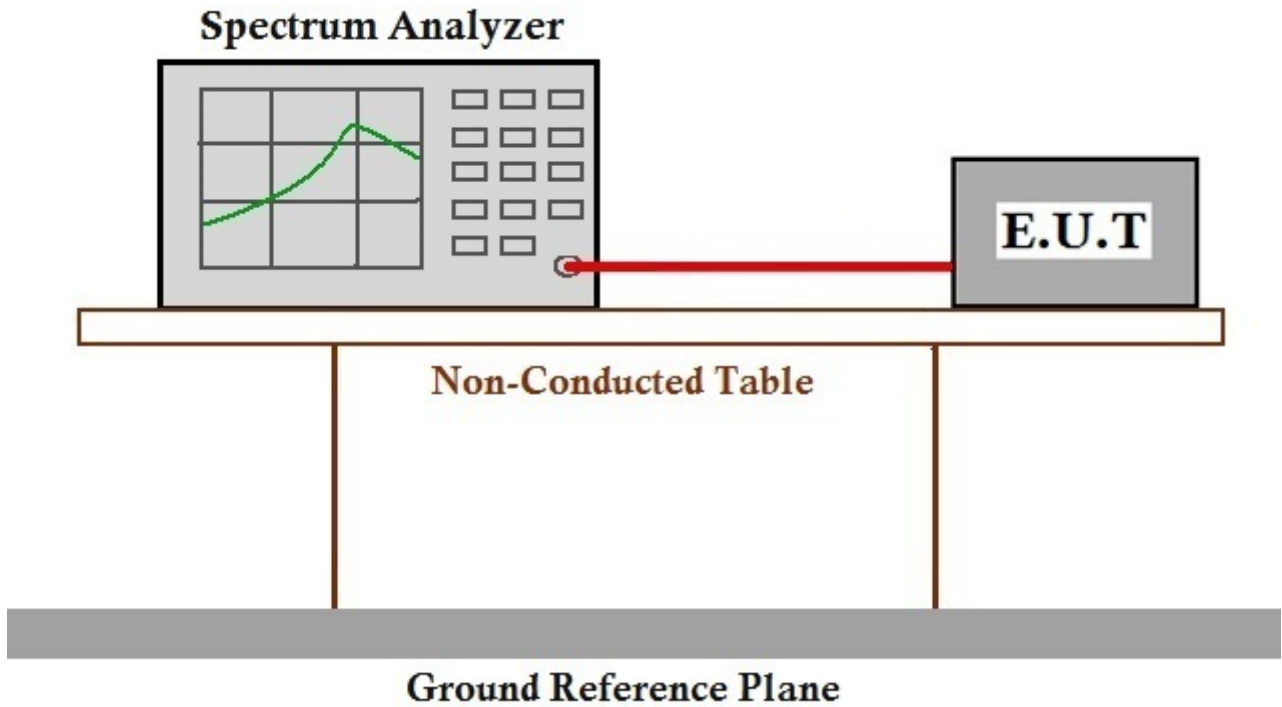


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7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210600565402



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

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

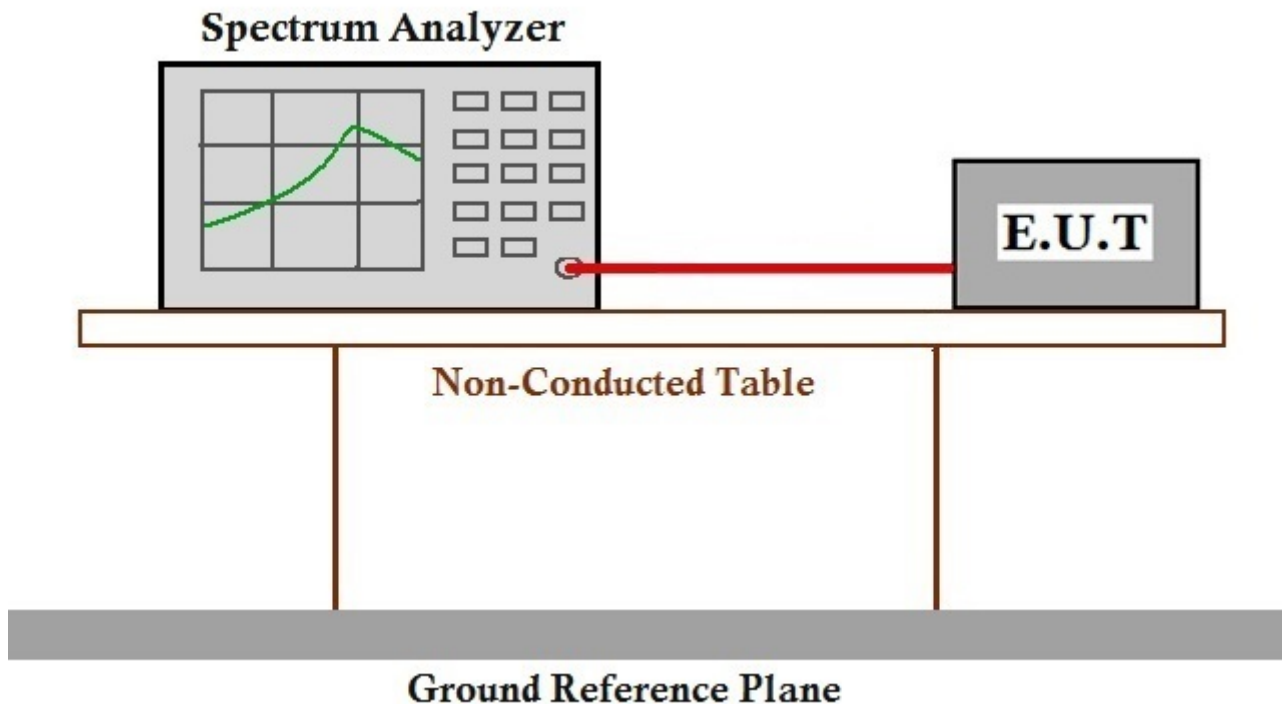
**7.5.1 E.U.T. Operation**

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1006 mbar

Test mode e:TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

**7.5.2 Test Setup Diagram**



**7.5.3 Measurement Procedure and Data**

The detailed test data see: Appendix B for SHEM210600565402



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### 7.6 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	<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> <p>For MIMO function, two antennas are correlated, the Directional gain is 6.35dBi for 5150-5250MHz,7.05dBi for 5250-5350MHz,6.88dBi for 5470-5725MHz,8.11dBi for 5725-5850MHz ,the maximum Conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p>So the limit</p> <p>For 5150-5250MHz:23.65dBm for FCC</p> <p>For 5250-5350MHz:22.95dBm for FCC&amp;IC</p> <p>For 5470-5725MHz:23.12dBm for FCC&amp;IC</p> <p>For 5725-5850MHz:27.89dBm for FCC&amp;IC</p>



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**7.6.1 E.U.T. Operation**

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1006 mbar

Test mode: b:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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

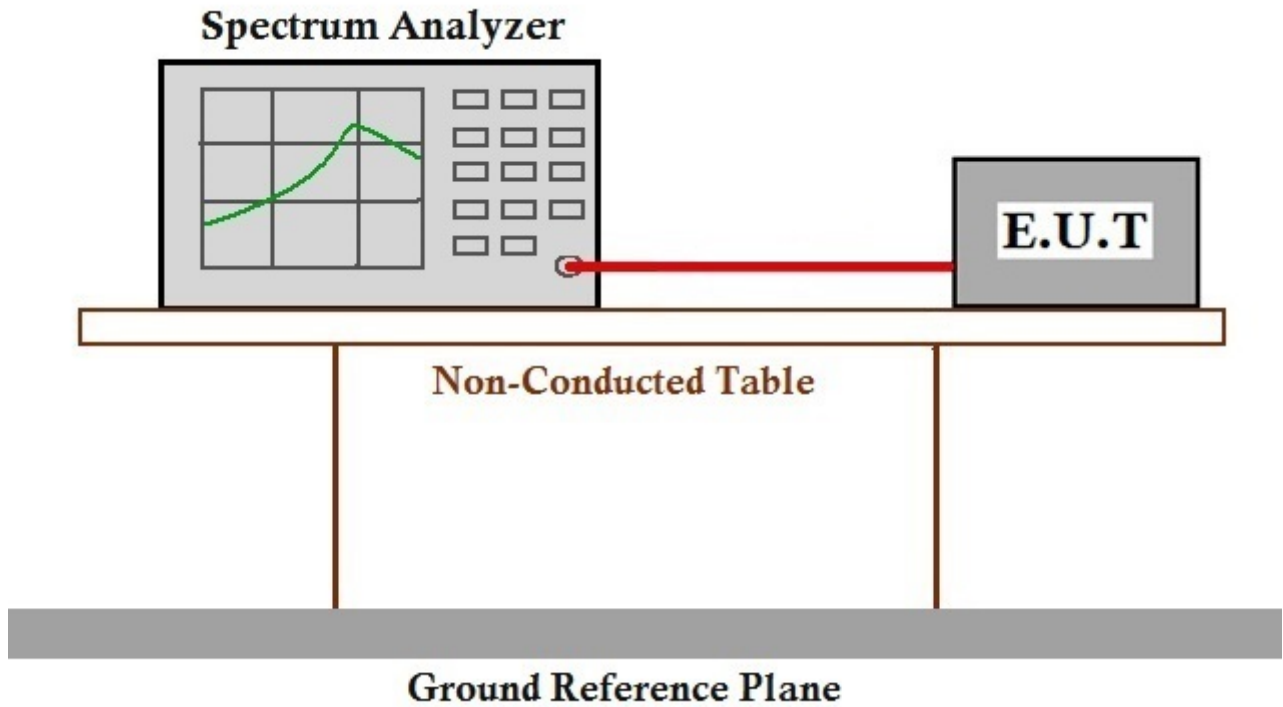
d:TX mode (Band 2C)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the 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)\_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 SHEM210600565402



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### 7.7 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	<p>The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.</p> <p>For MIMO function, two antennas are correlated, the Directional gain is 6.35dBi for 5150-5250MHz,7.05dBi for 5250-5350MHz,6.88dBi for 5470-5725MHz,8.11dBi for 5725-5850MHz ,the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p>So the limit</p> <p>For 5150-5250MHz:10.65dBm/MHz for FCC</p> <p>For 5250-5350MHz:9.95dBm/MHz for FCC&amp;IC</p> <p>For 5470-5725MHz:10.12dBm/MHz for FCC&amp;IC</p> <p>For 5725-5850MHz:27.89dBm/500KHz for FCC&amp;IC</p>

#### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1006 mbar

Test mode: b:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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



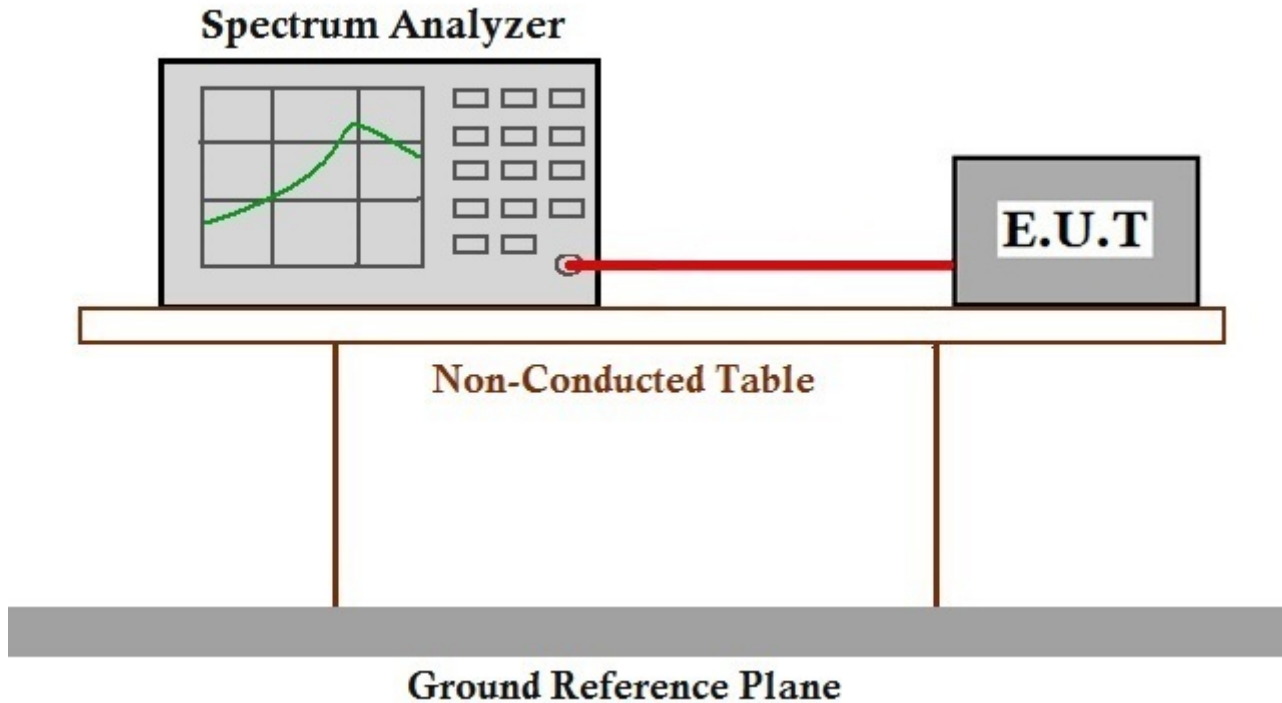
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802.11ac(VHT80). Only the data of worst case is recorded in the report.

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

7.7.2 Test Setup Diagram



7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210600565402



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## 7.8 Radiated Emissions

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

Test Method: KDB 789033 D02 II G

Limit:

### Limit:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).

For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1006 mbar

Test mode: b:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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

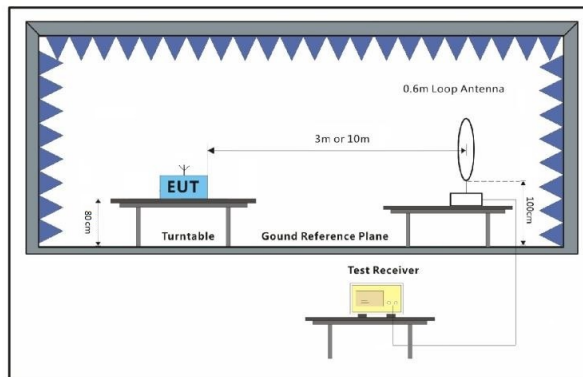
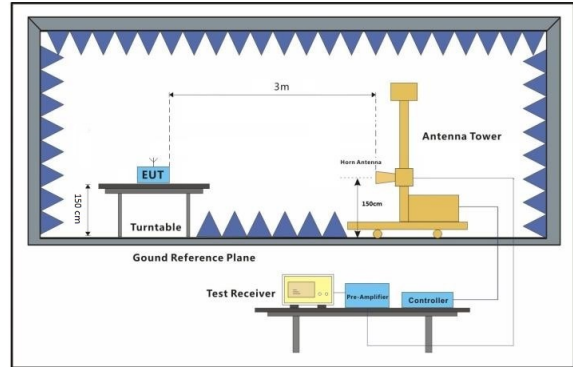
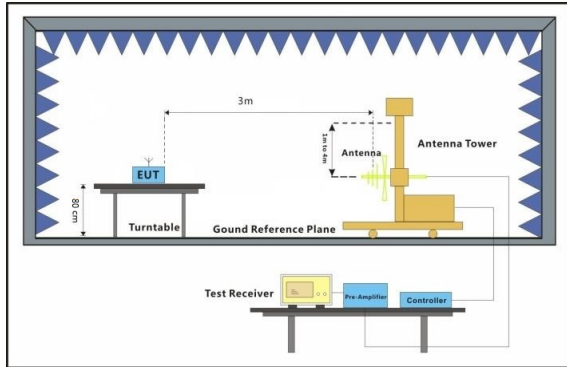


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case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded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

7.8.2 Test Setup Diagram



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### 7.8.3 Measurement Procedure and Data

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
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.



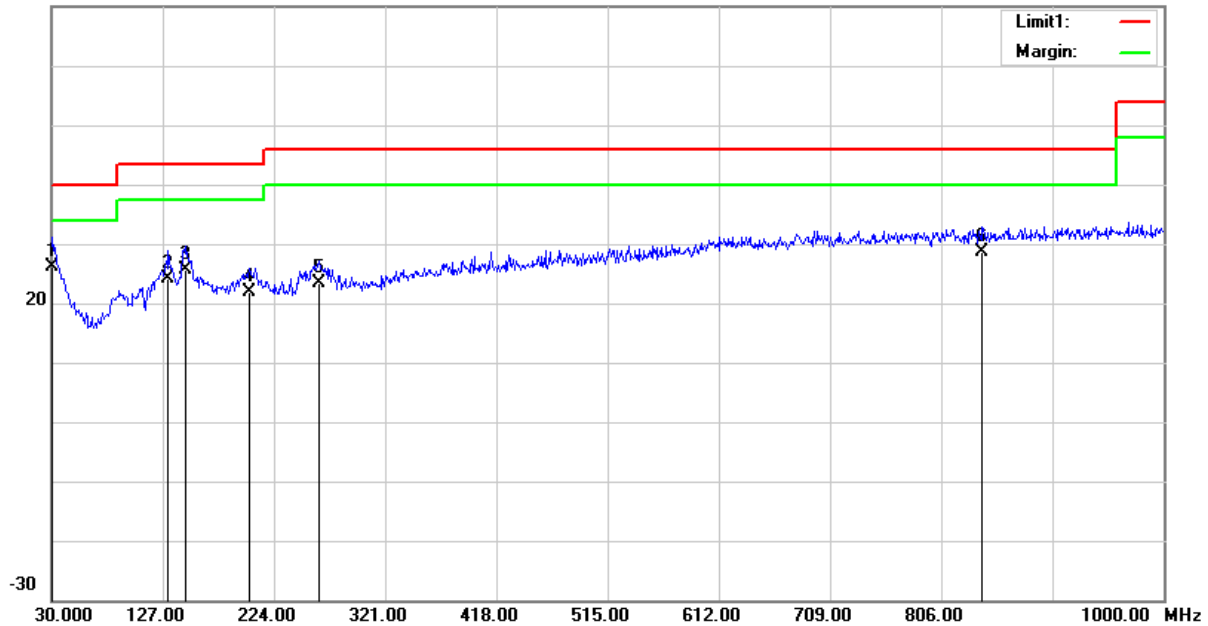
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Below 1GHz

Horizontal

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.9700	0.61	25.50	26.11	40.00	-13.89	400	217	QP
2	131.8500	4.54	19.63	24.17	43.50	-19.33	200	308	QP
3	146.4000	5.47	20.09	25.56	43.50	-17.94	300	350	QP
4	202.6600	5.43	16.52	21.95	43.50	-21.55	200	288	QP
5	262.8000	3.72	19.75	23.47	46.00	-22.53	300	247	QP
6	841.8900	0.19	28.43	28.62	46.00	-17.38	100	174	QP



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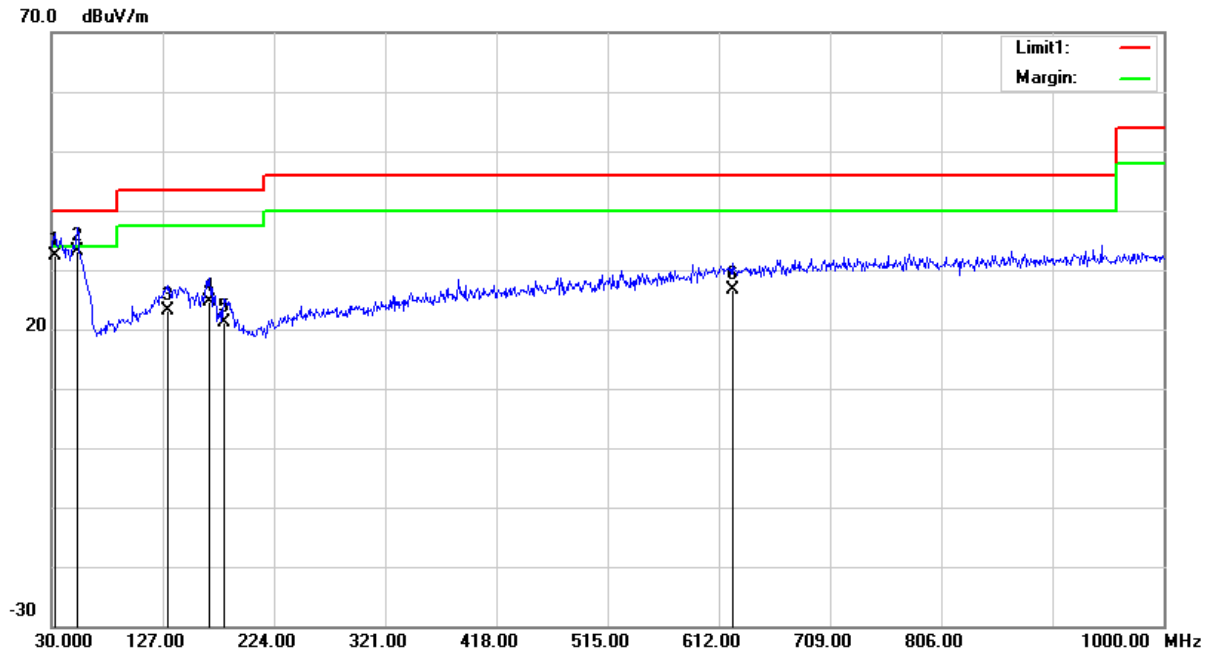
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Vertical



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	7.97	24.34	32.31	40.00	-7.69	100	2	QP
2	52.3100	19.06	14.08	33.14	40.00	-6.86	100	167	QP
3	130.8800	3.54	19.60	23.14	43.50	-20.36	100	194	QP
4	167.7400	5.74	18.84	24.58	43.50	-18.92	100	92	QP
5	180.3500	3.21	17.87	21.08	43.50	-22.42	200	189	QP
6	623.6400	-0.20	26.85	26.65	46.00	-19.35	200	240	QP

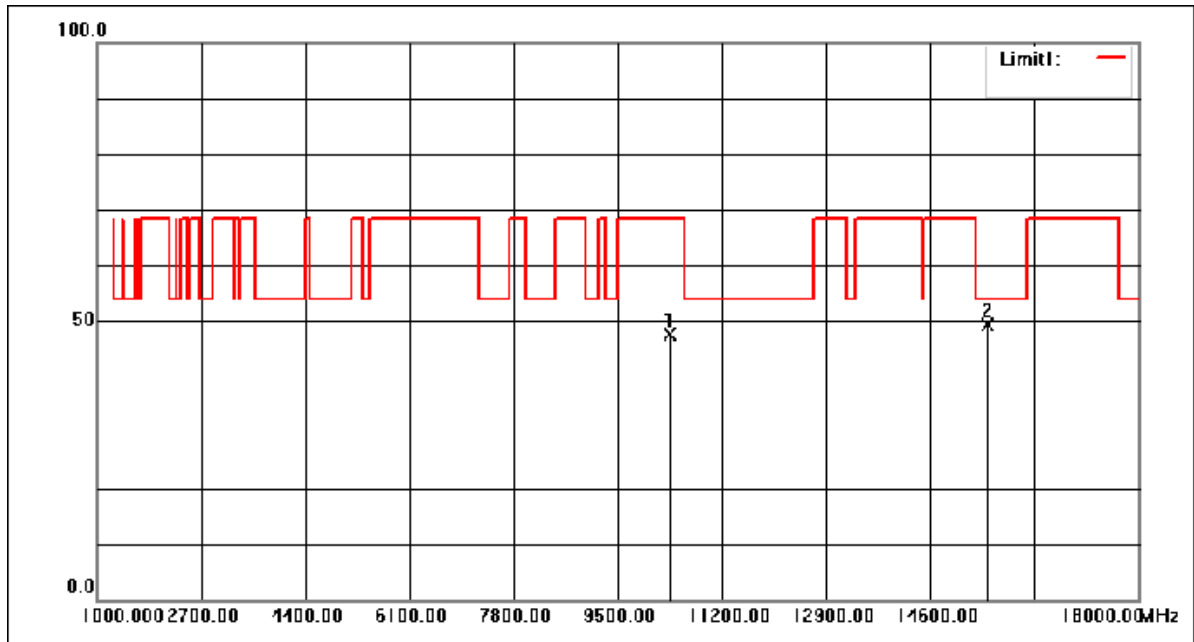


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Above 1GHz

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



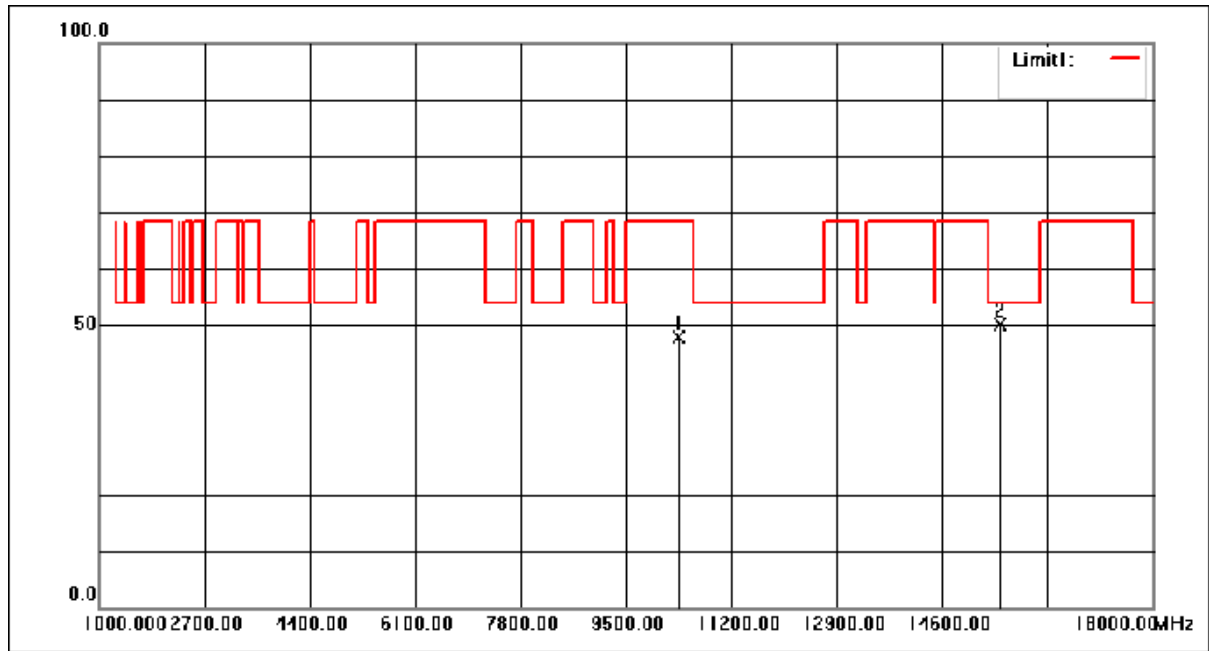
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	50.27	-2.59	47.68	68.30	-20.62	peak
2	15540.000	49.69	-0.30	49.39	54.00	-4.61	peak



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



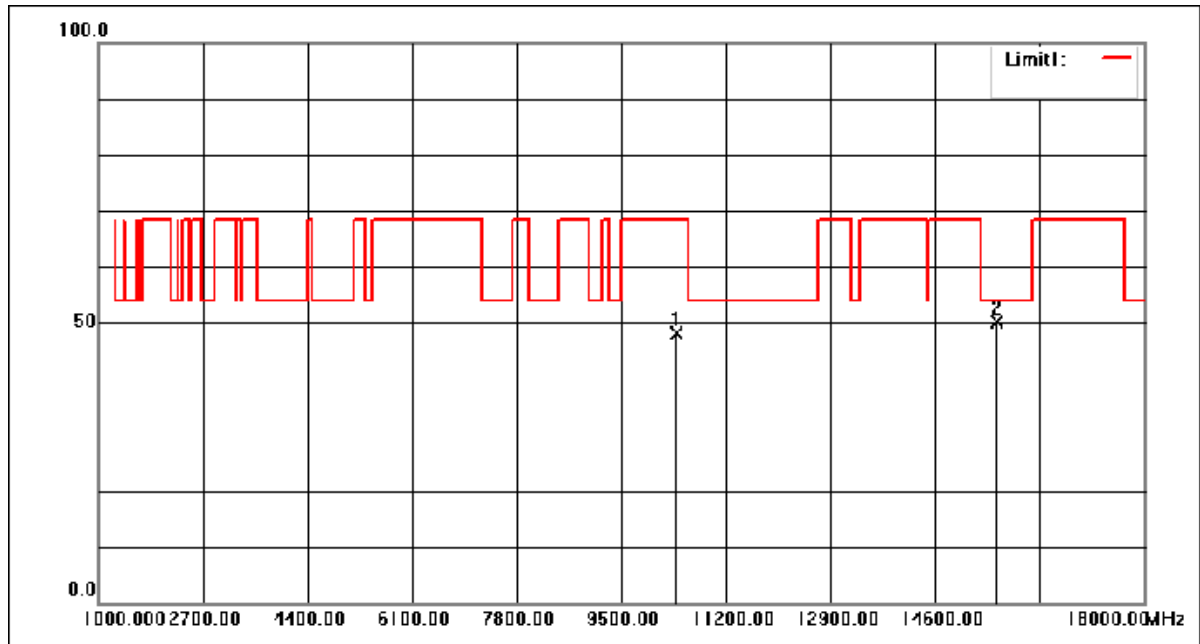
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	50.45	-2.59	47.86	68.30	-20.44	peak
2	15540.000	50.44	-0.30	50.14	54.00	-3.86	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10400.000	50.61	-2.53	48.08	68.30	-20.22	peak
2	15600.000	50.49	-0.35	50.14	54.00	-3.86	peak

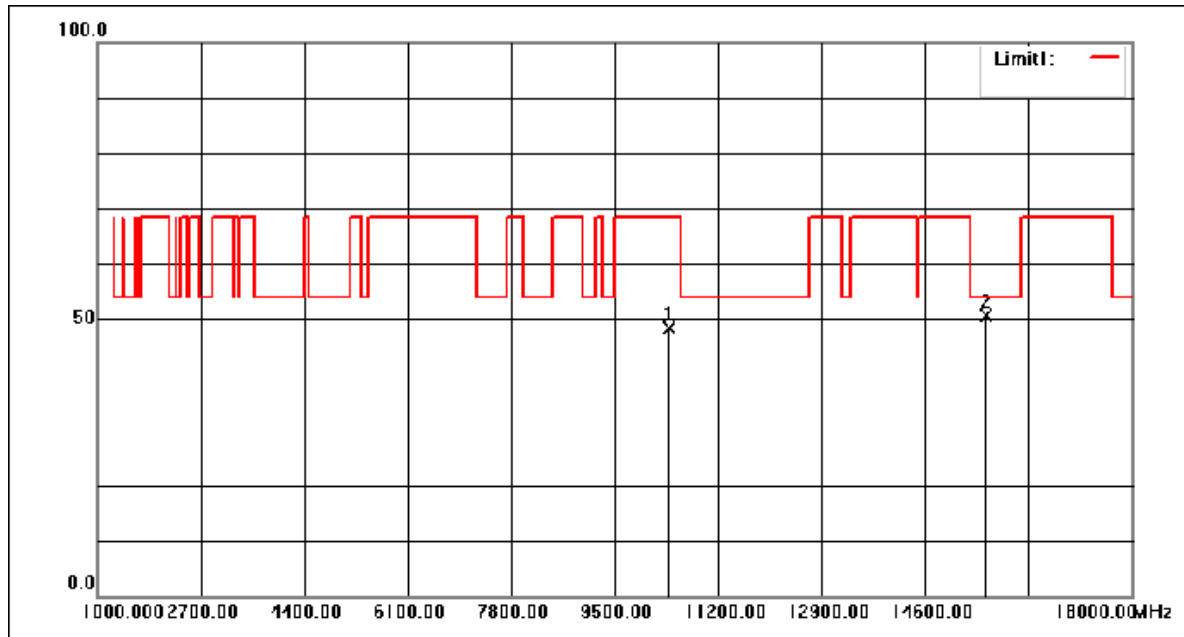


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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



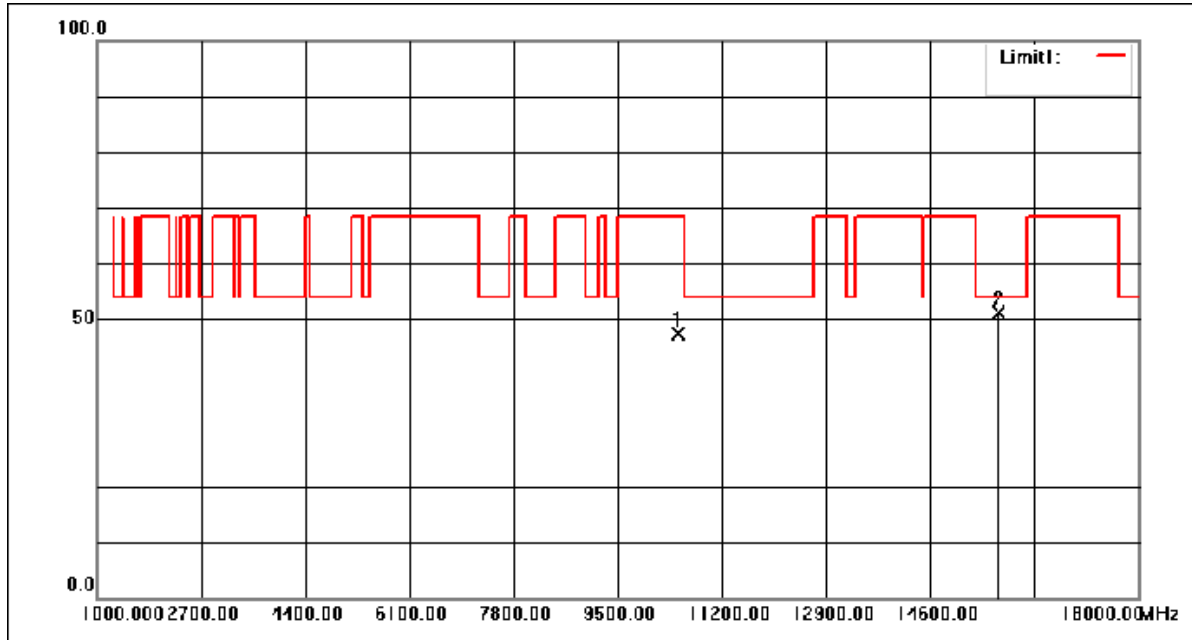
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10400.000	50.80	-2.53	48.27	68.30	-20.03	peak
2	15600.000	51.07	-0.35	50.72	54.00	-3.28	peak



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



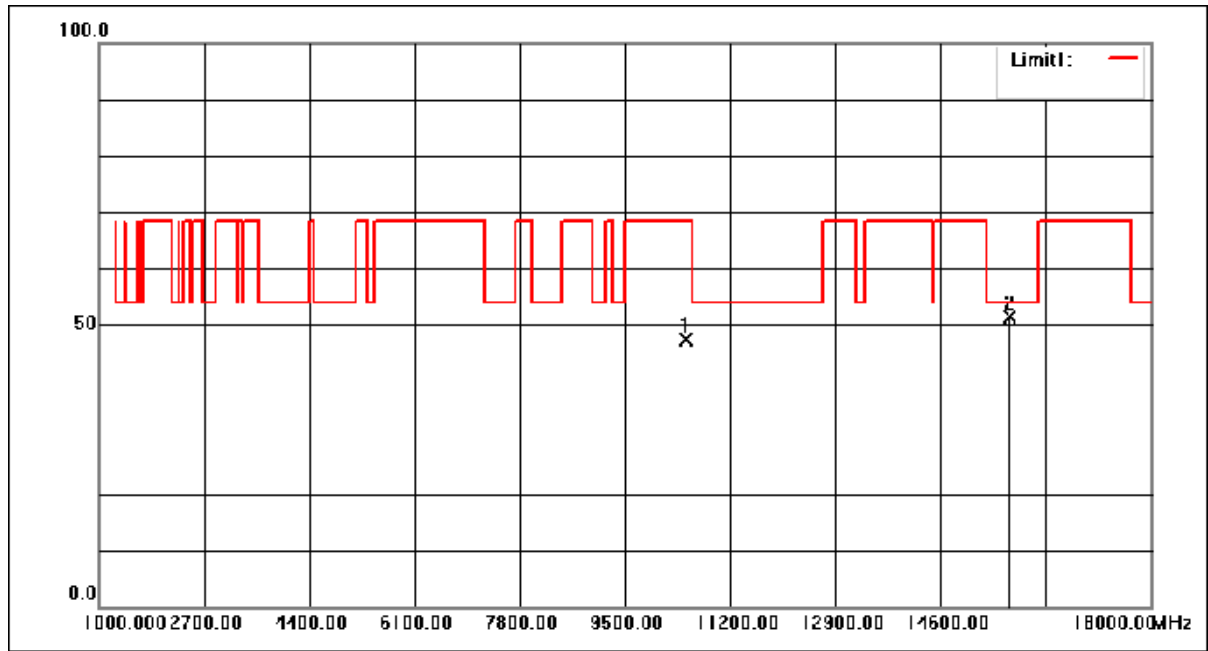
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	49.79	-2.41	47.38	68.30	-20.92	peak
2	15720.000	51.52	-0.44	51.08	54.00	-2.92	peak



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



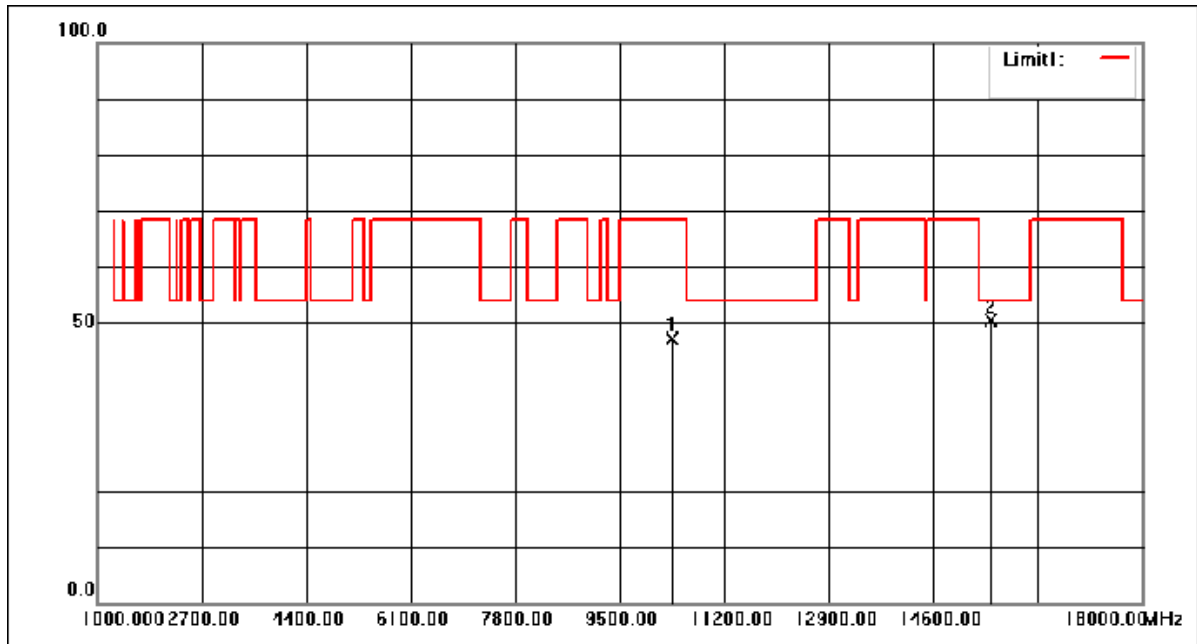
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	49.74	-2.41	47.33	68.30	-20.97	peak
2	15720.000	51.79	-0.44	51.35	54.00	-2.65	peak



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



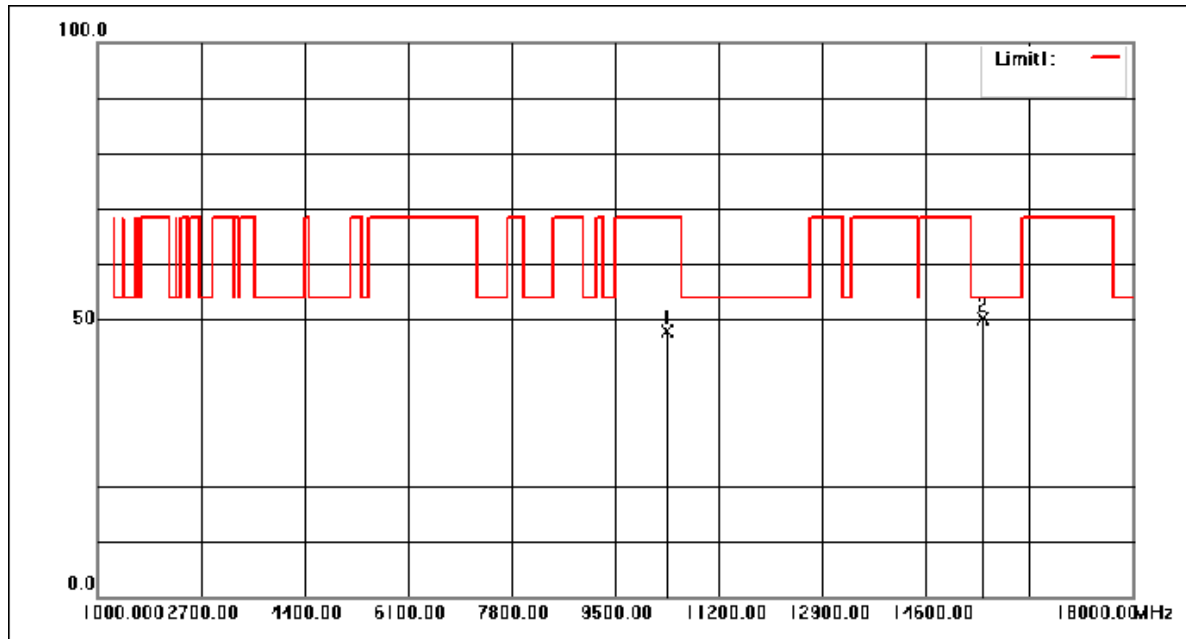
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	49.81	-2.59	47.22	68.30	-21.08	peak
2	15540.000	50.57	-0.30	50.27	54.00	-3.73	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	50.42	-2.59	47.83	68.30	-20.47	peak
2	15540.000	50.34	-0.30	50.04	54.00	-3.96	peak

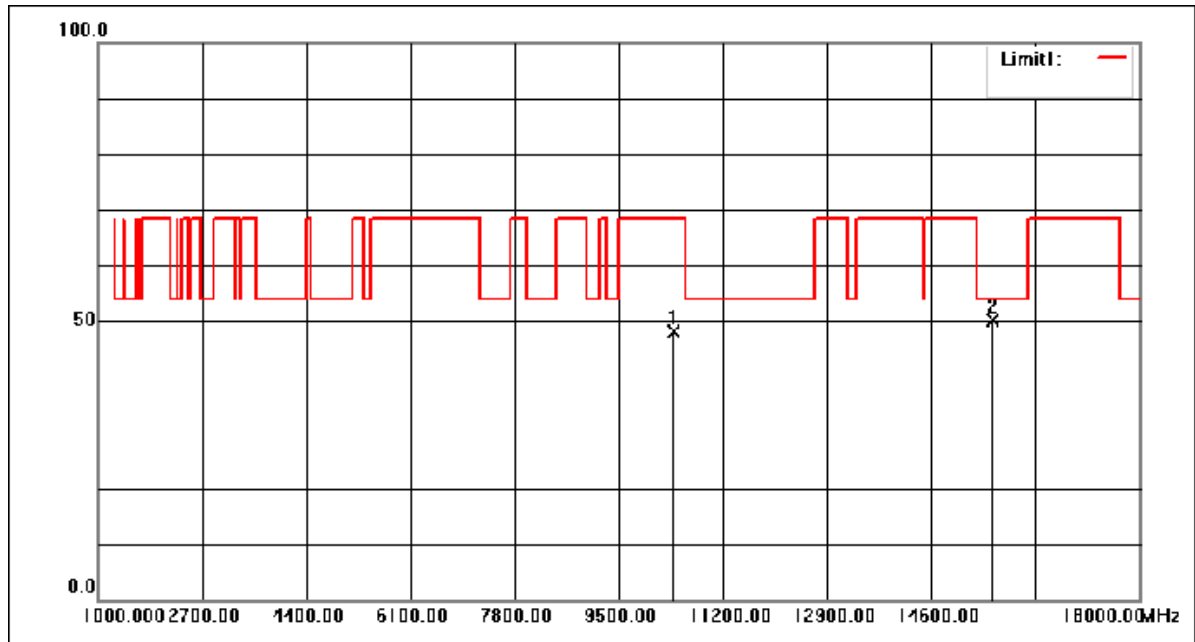


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



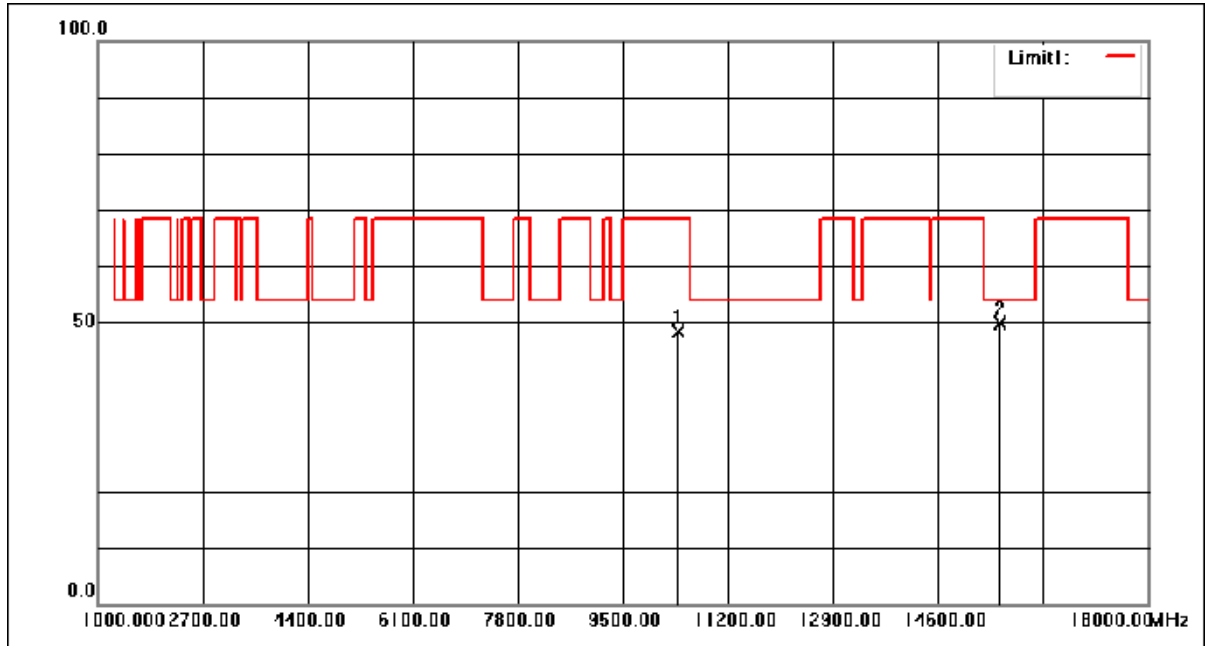
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10400.000	50.62	-2.53	48.09	68.30	-20.21	peak
2	15600.000	50.42	-0.35	50.07	54.00	-3.93	peak



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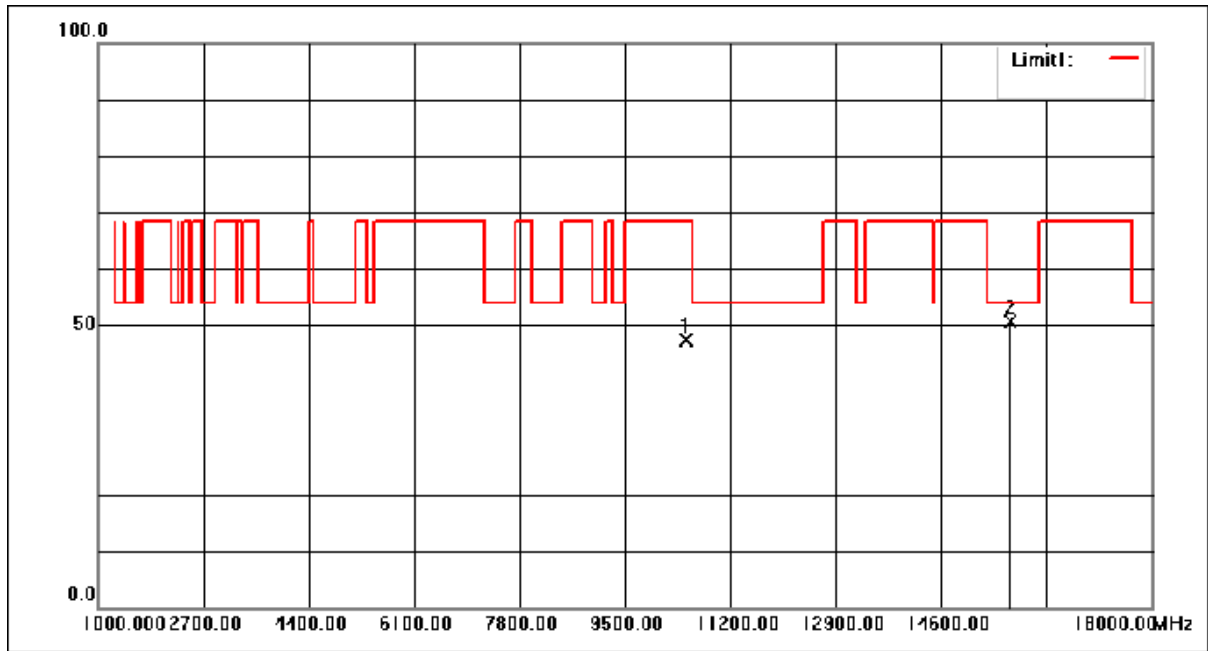
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10400.000	50.90	-2.53	48.37	68.30	-19.93	peak
2	15600.000	50.31	-0.35	49.96	54.00	-4.04	peak



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



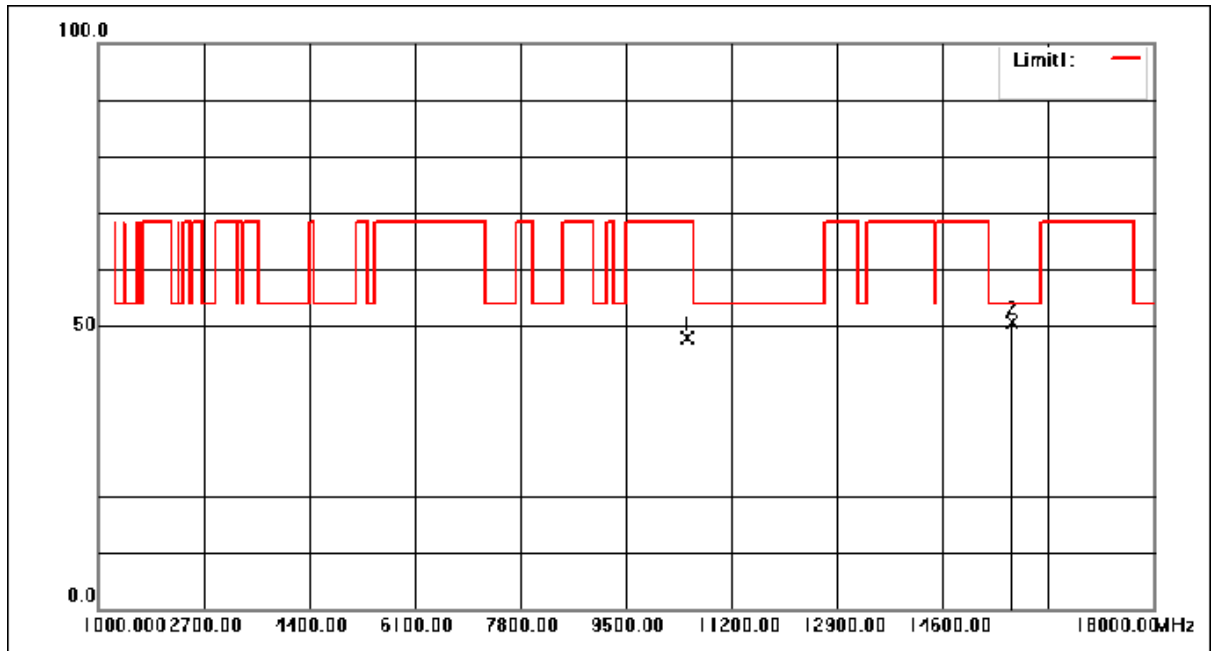
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	49.79	-2.41	47.38	68.30	-20.92	peak
2	15720.000	51.17	-0.44	50.73	54.00	-3.27	peak



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



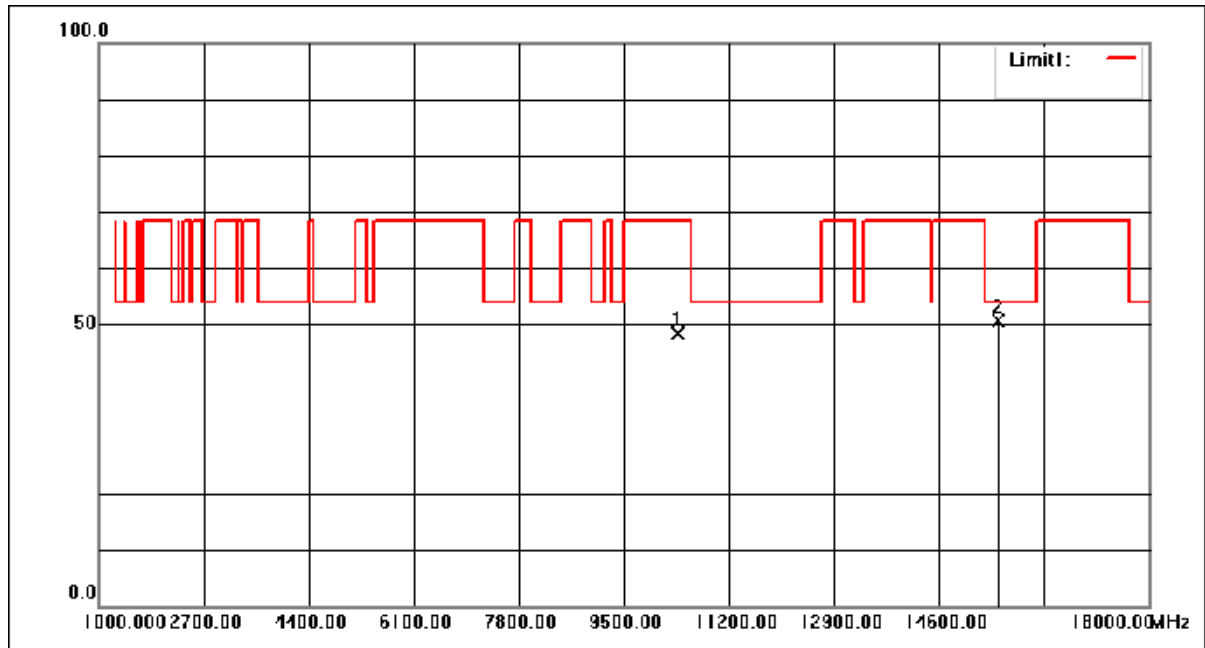
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	50.37	-2.41	47.96	68.30	-20.34	peak
2	15720.000	51.17	-0.44	50.73	54.00	-3.27	peak



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



No.	Frequency (MHz)	Reading ( )	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	10380.000	50.89	-2.56	48.33	68.30	-19.97	peak
2	15570.000	51.04	-0.32	50.72	54.00	-3.28	peak

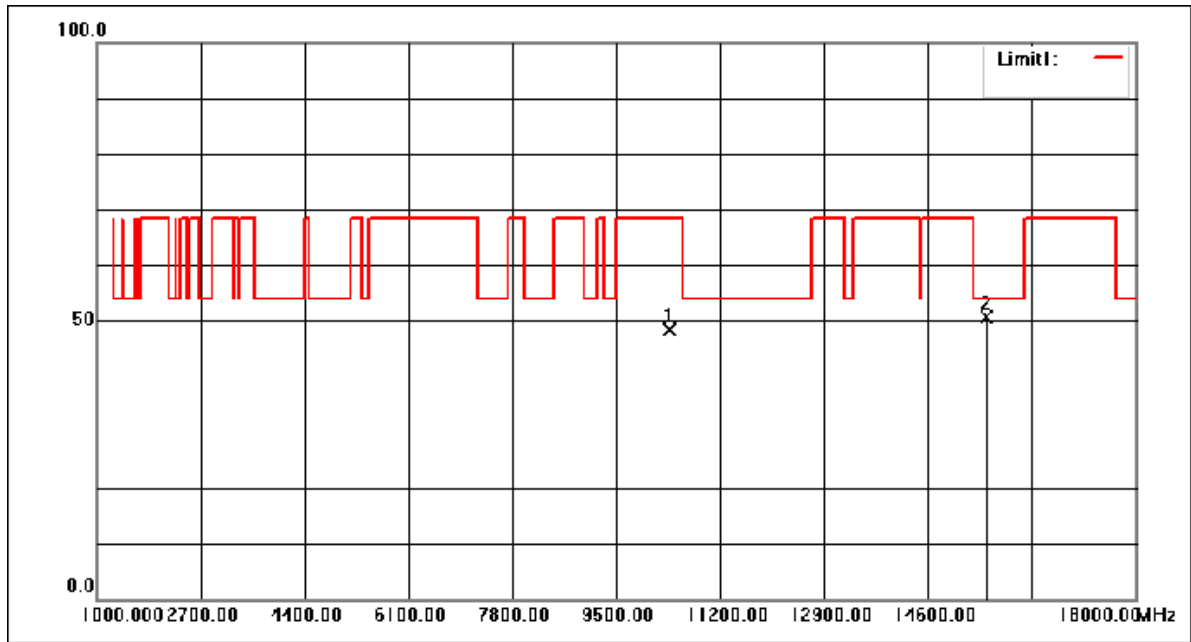


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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



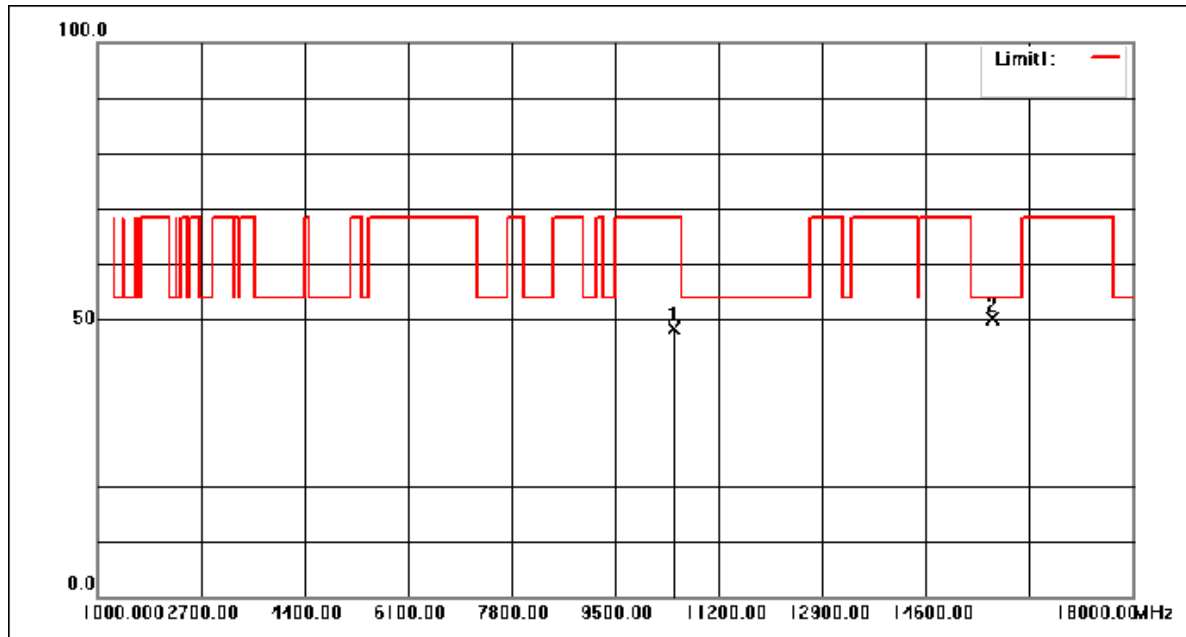
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10380.000	50.91	-2.56	48.35	68.30	-19.95	peak
2	15570.000	51.05	-0.32	50.73	54.00	-3.27	peak



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



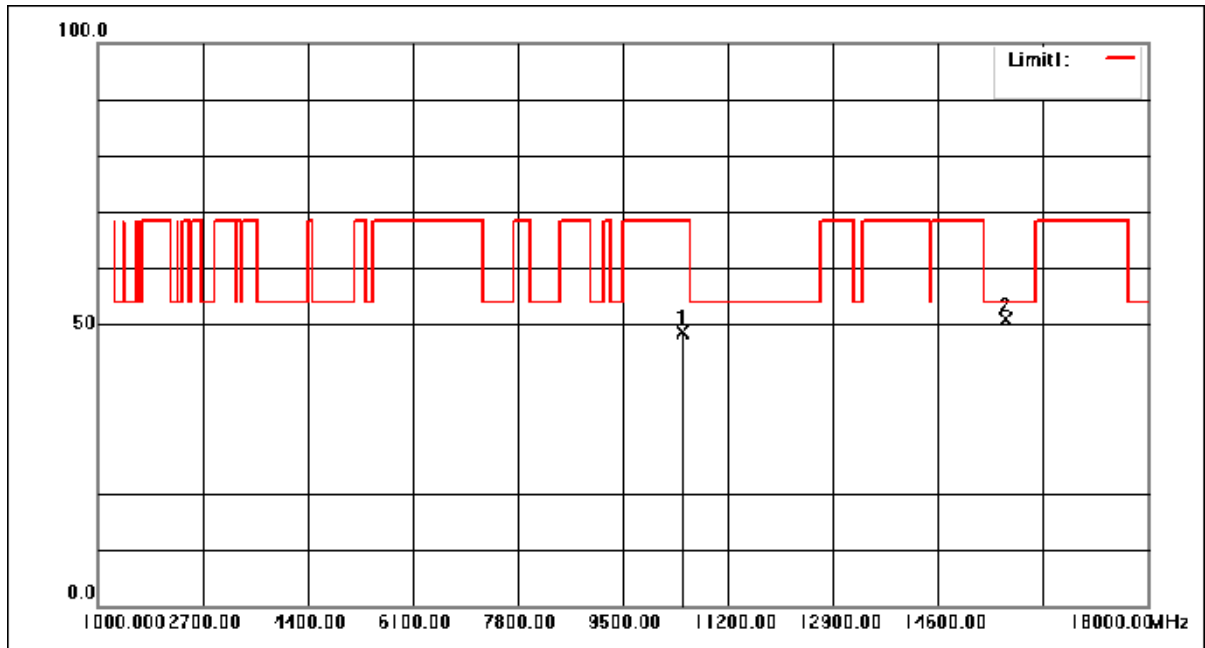
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10460.000	50.82	-2.44	48.38	68.30	-19.92	peak
2	15690.000	50.58	-0.42	50.16	54.00	-3.84	peak



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



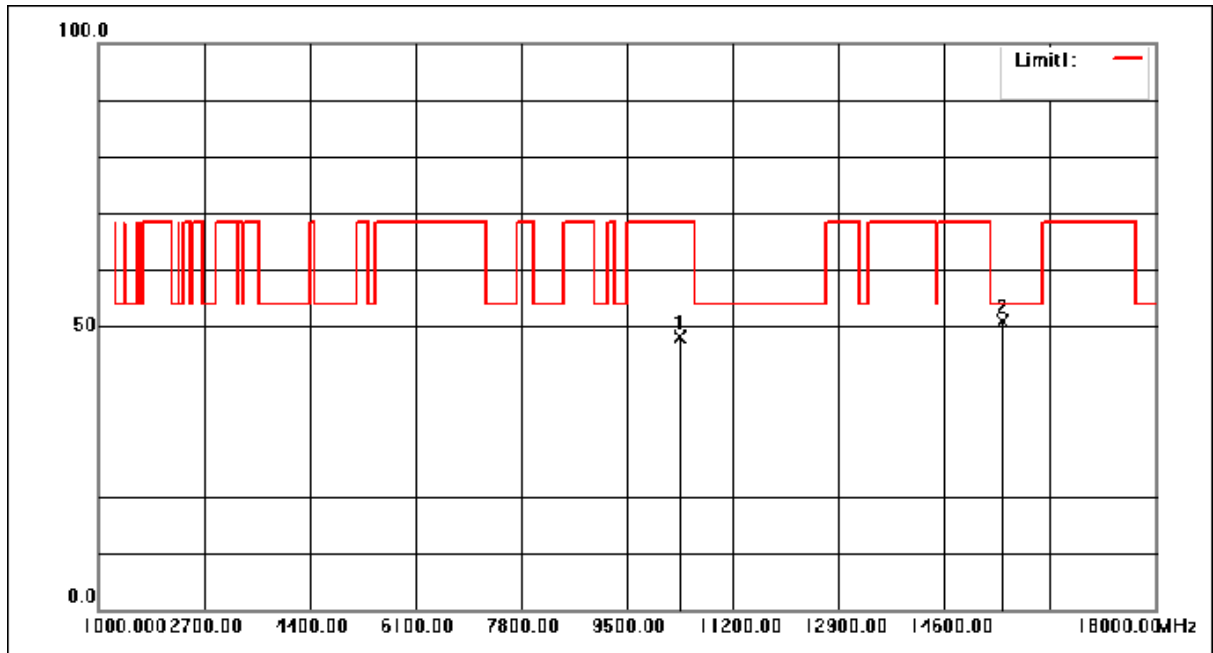
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10460.000	51.17	-2.44	48.73	68.30	-19.57	peak
2	15690.000	51.41	-0.42	50.99	54.00	-3.01	peak



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



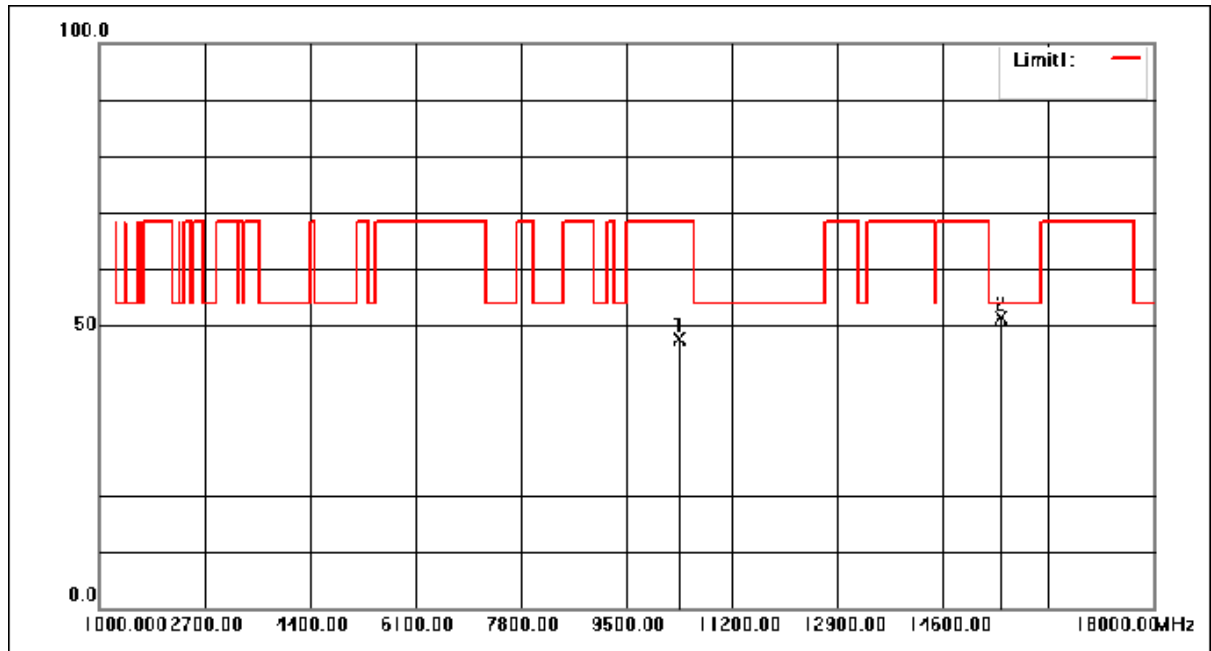
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	50.62	-2.59	48.03	68.30	-20.27	peak
2	15540.000	51.06	-0.30	50.76	54.00	-3.24	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	50.28	-2.59	47.69	68.30	-20.61	peak
2	15540.000	51.57	-0.30	51.27	54.00	-2.73	peak

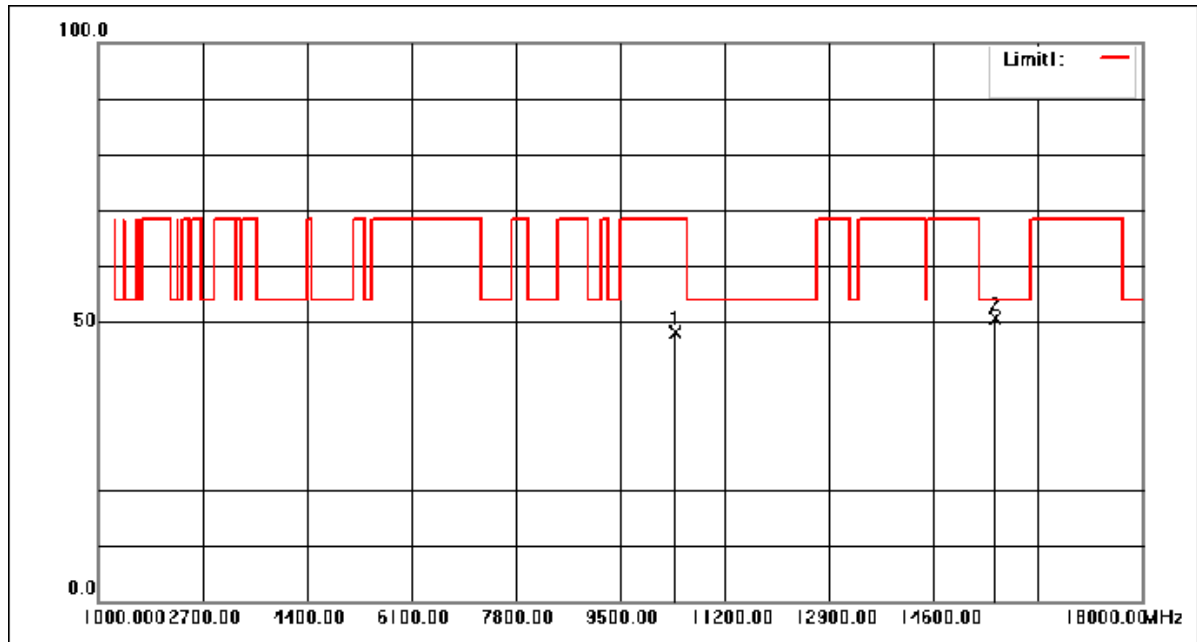


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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle



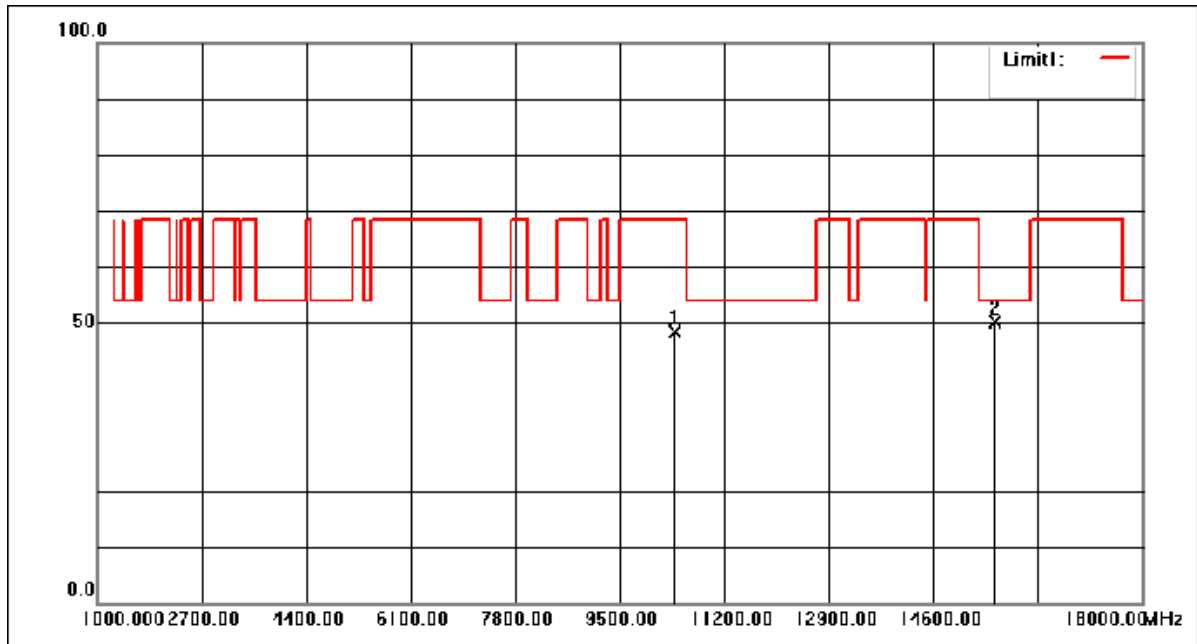
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	10400.000	50.62	-2.53	48.09	68.30	-20.21	peak
2	15600.000	51.02	-0.35	50.67	54.00	-3.33	peak



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



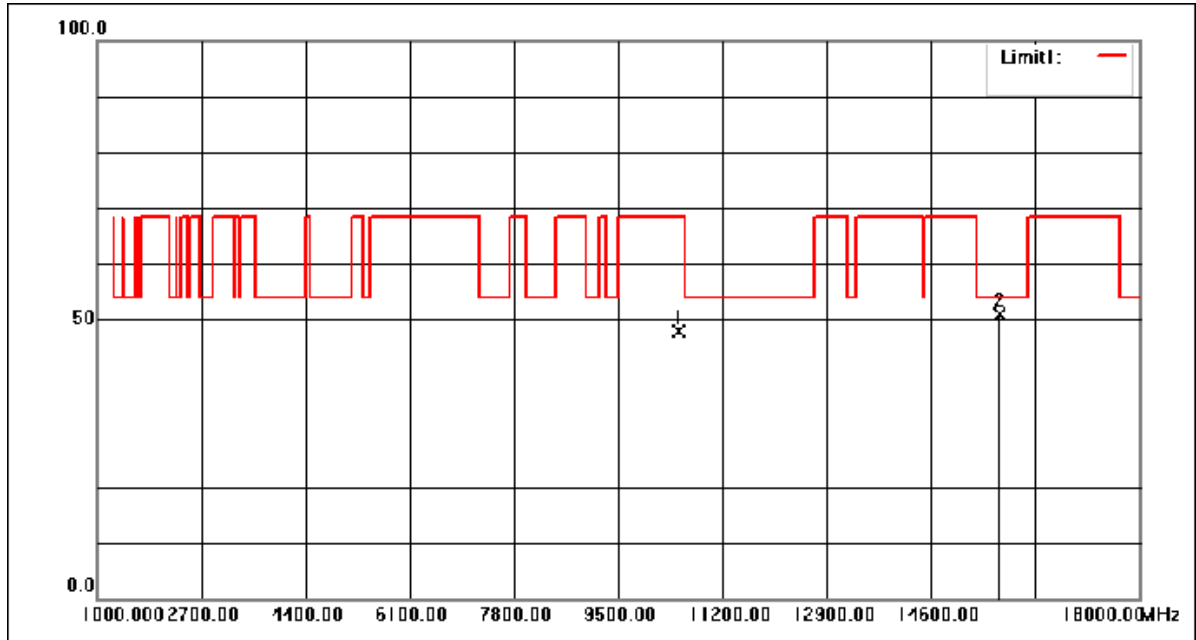
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10400.000	50.90	-2.53	48.37	68.30	-19.93	peak
2	15600.000	50.54	-0.35	50.19	54.00	-3.81	peak



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



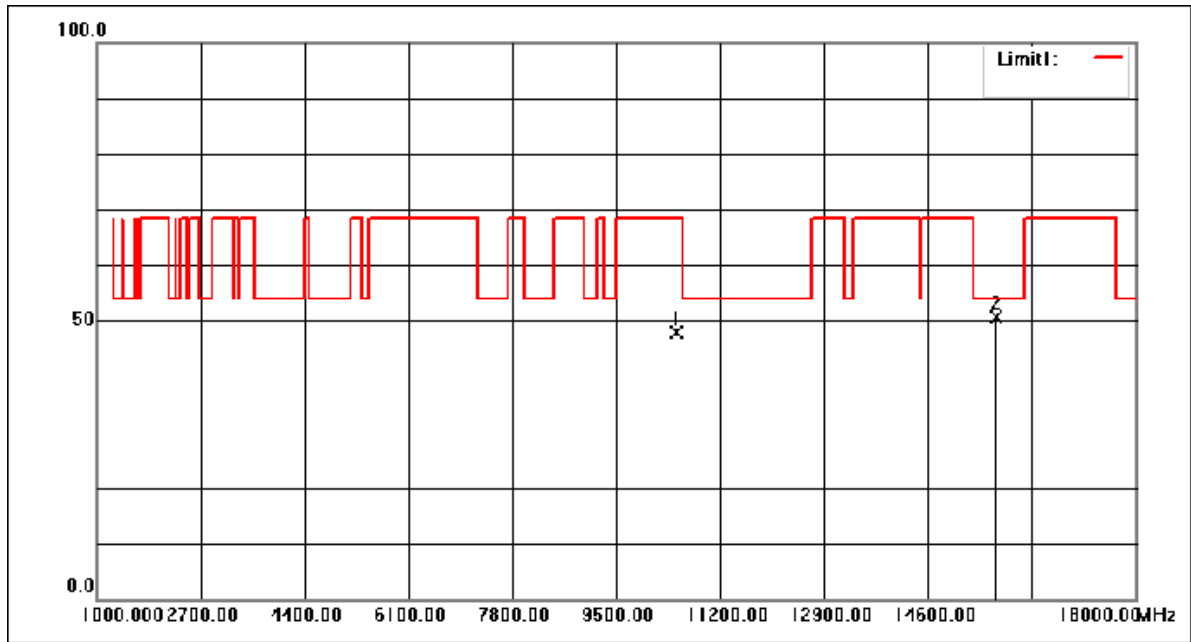
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	50.34	-2.41	47.93	68.30	-20.37	peak
2	15720.000	51.31	-0.44	50.87	54.00	-3.13	peak



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



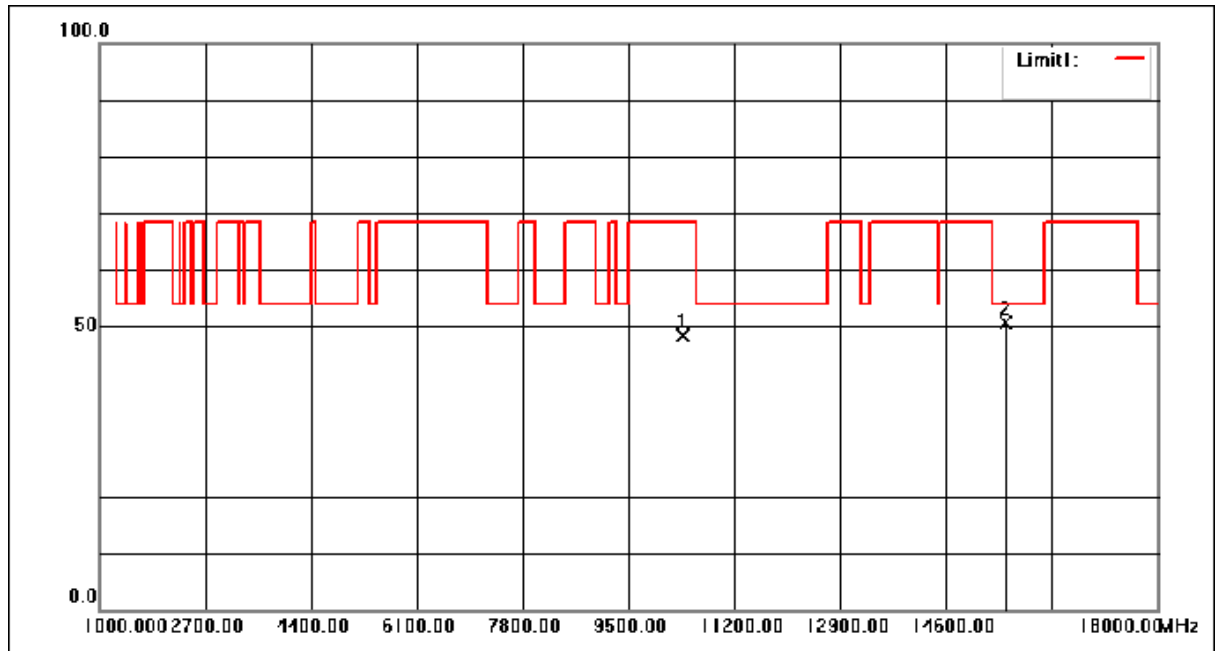
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	50.37	-2.41	47.96	68.30	-20.34	peak
2	15720.000	51.11	-0.44	50.67	54.00	-3.33	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10380.000	50.93	-2.56	48.37	68.30	-19.93	peak
2	15570.000	51.03	-0.32	50.71	54.00	-3.29	peak

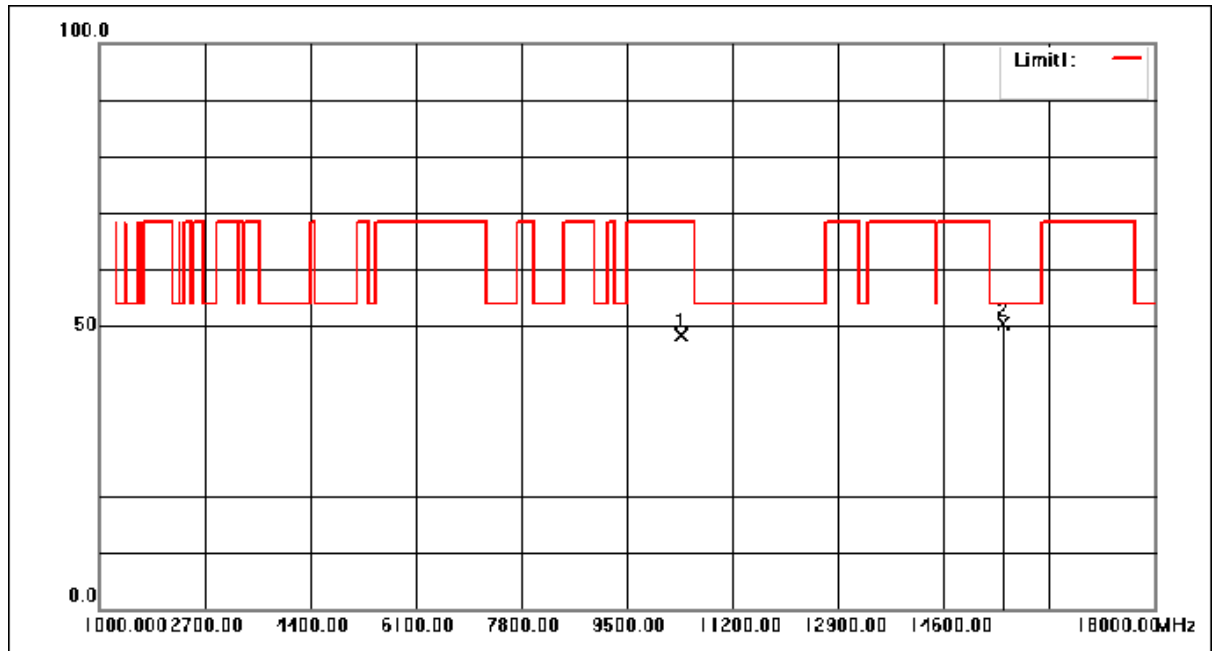


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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



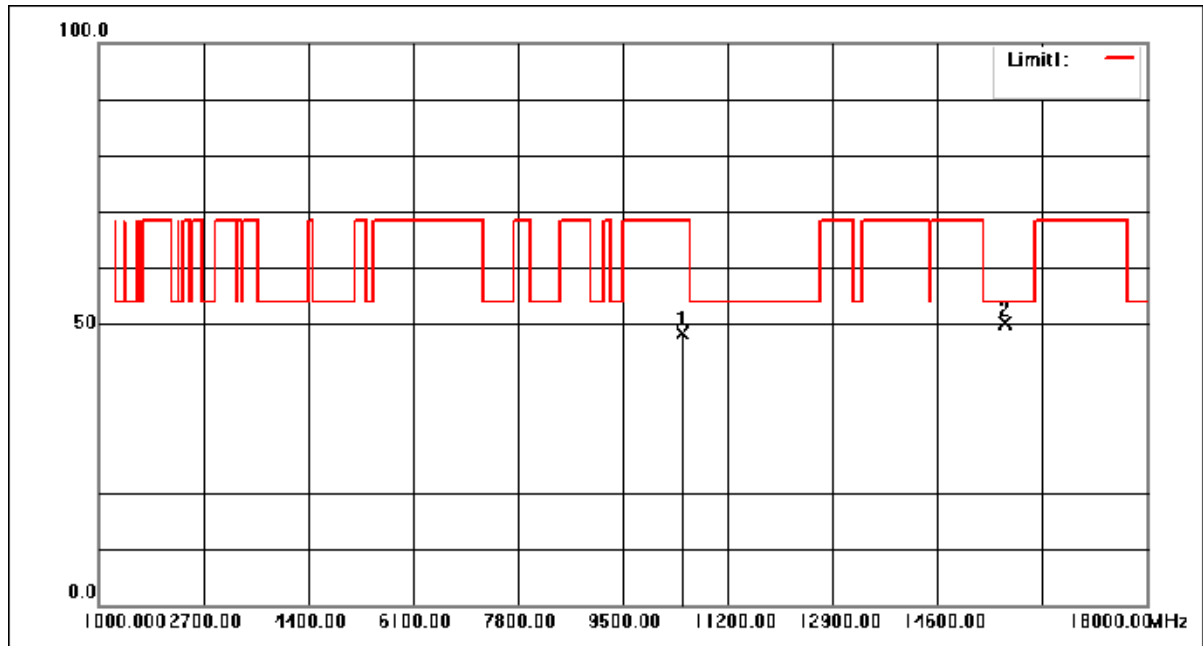
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10380.000	50.91	-2.56	48.35	68.30	-19.95	peak
2	15570.000	50.81	-0.32	50.49	54.00	-3.51	peak



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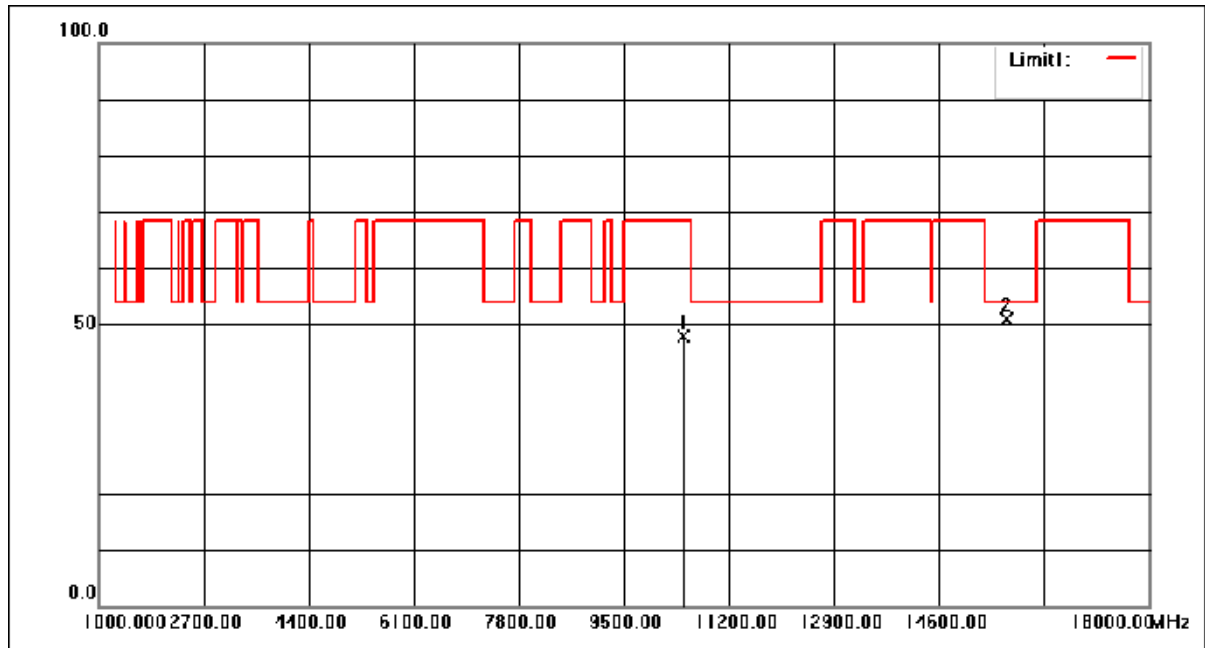
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10460.000	50.77	-2.44	48.33	68.30	-19.97	peak
2	15690.000	50.54	-0.42	50.12	54.00	-3.88	peak



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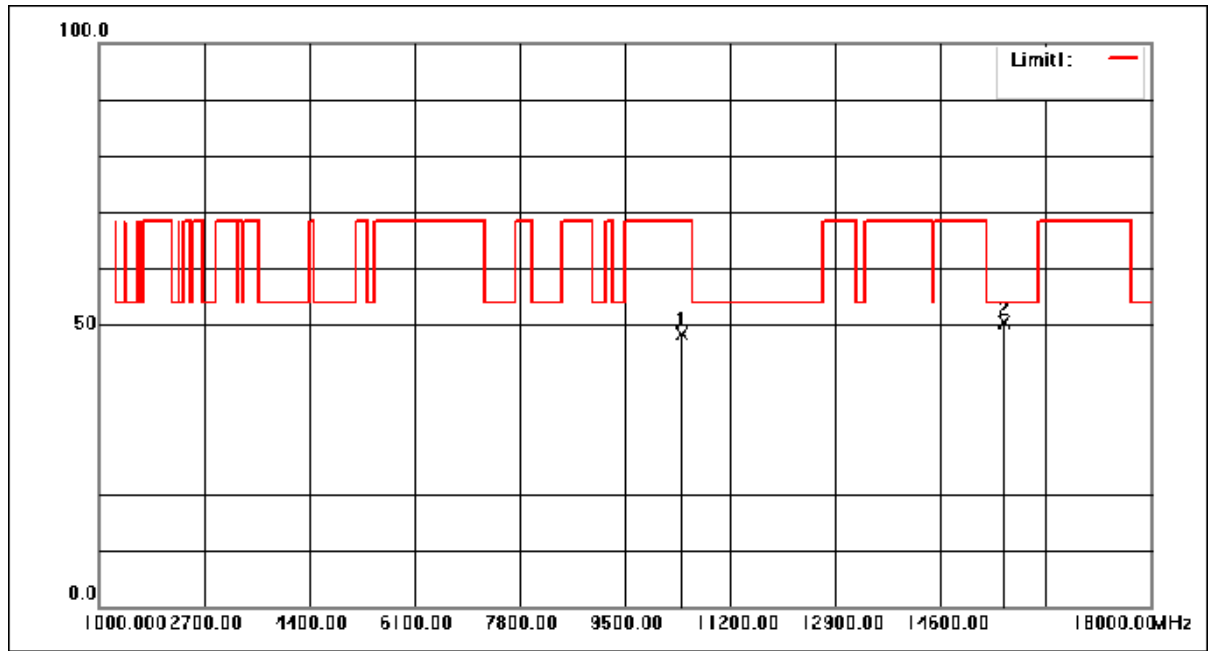
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10460.000	50.29	-2.44	47.85	68.30	-20.45	peak
2	15690.000	51.26	-0.42	50.84	54.00	-3.16	peak



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



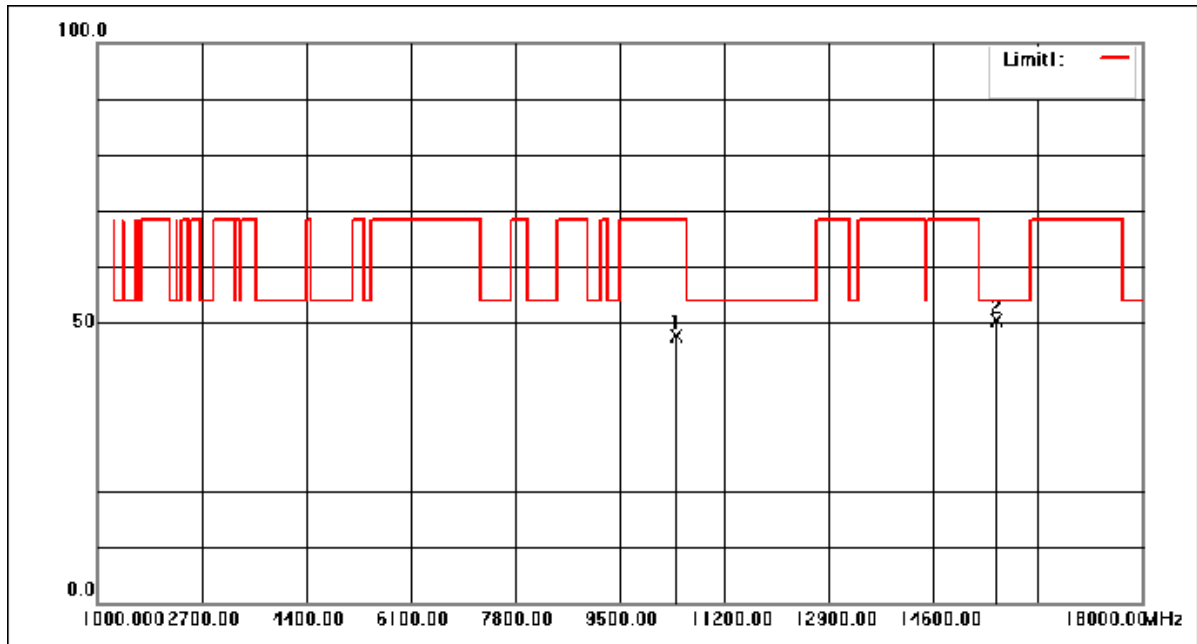
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10420.000	50.84	-2.50	48.34	68.30	-19.96	peak
2	15630.000	50.71	-0.37	50.34	54.00	-3.66	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10420.000	50.18	-2.50	47.68	68.30	-20.62	peak
2	15630.000	50.85	-0.37	50.48	54.00	-3.52	peak

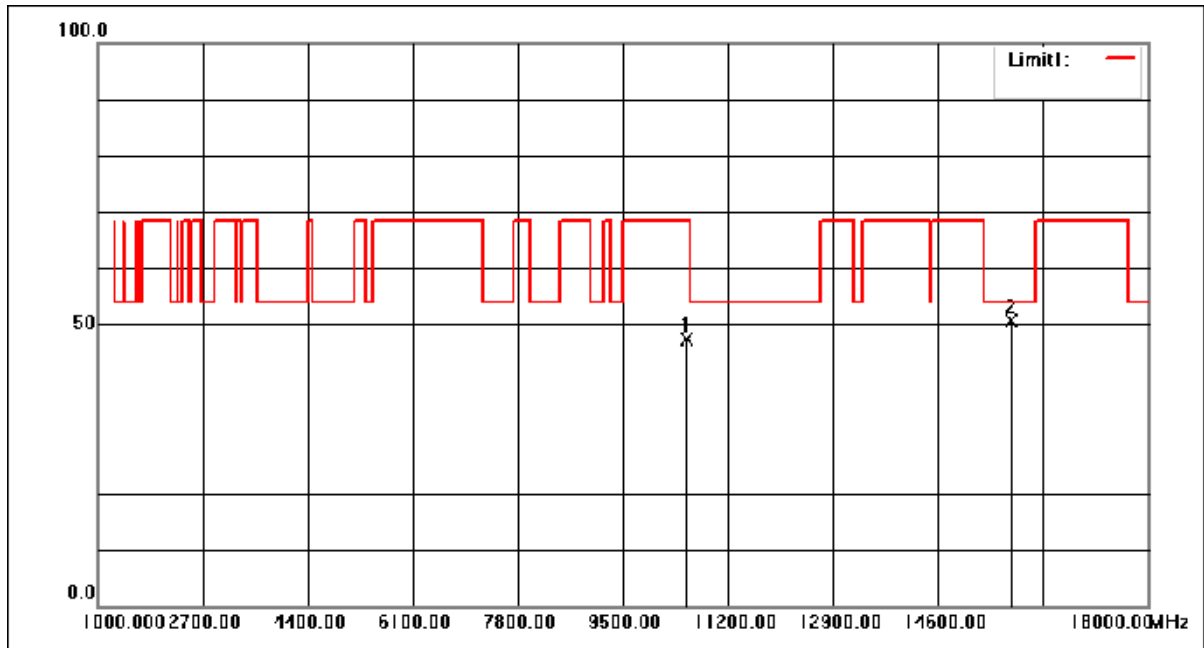


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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



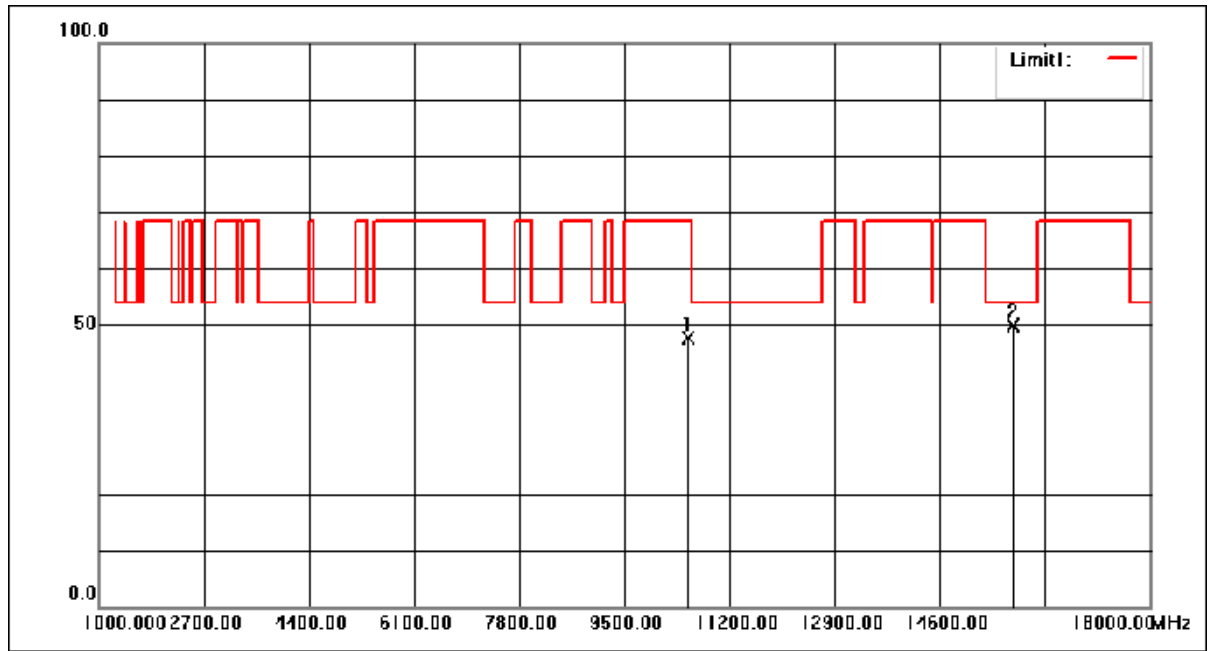
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	49.71	-2.33	47.38	68.30	-20.92	peak
2	15780.000	51.22	-0.49	50.73	54.00	-3.27	peak



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



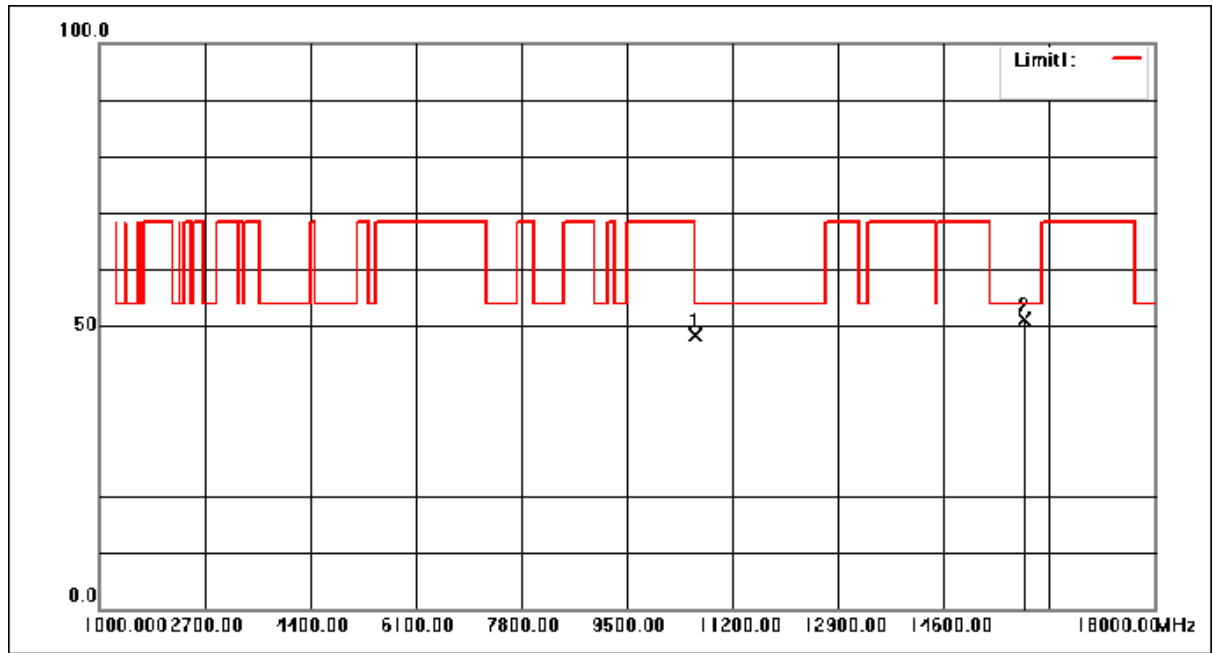
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	49.92	-2.33	47.59	68.30	-20.71	peak
2	15780.000	50.34	-0.49	49.85	54.00	-4.15	peak



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



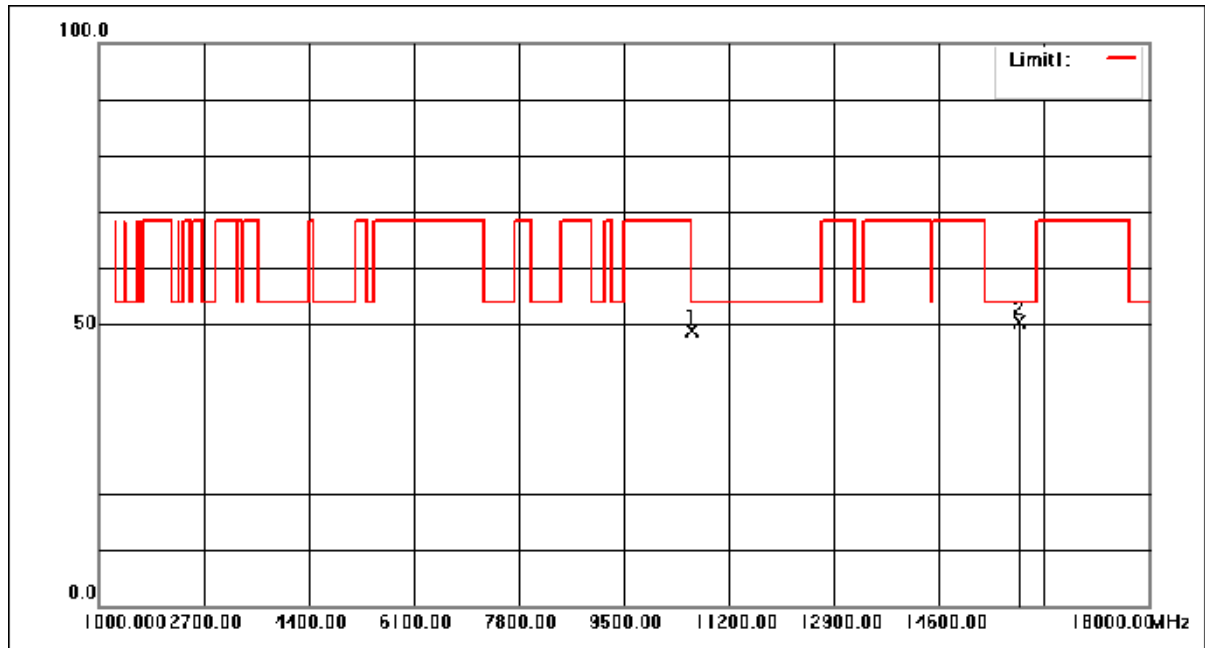
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	50.49	-2.12	48.37	54.00	-5.63	peak
2	15900.000	51.64	-0.58	51.06	54.00	-2.94	peak



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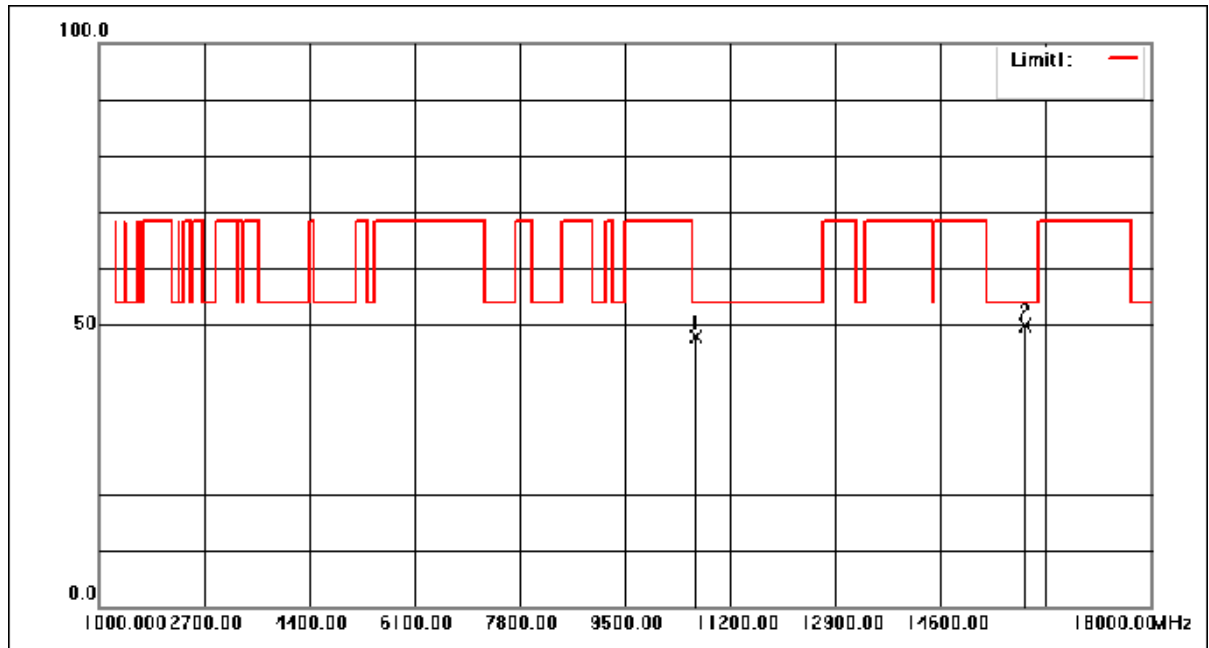
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	50.88	-2.12	48.76	54.00	-5.24	peak
2	15900.000	51.07	-0.58	50.49	54.00	-3.51	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	49.92	-2.01	47.91	54.00	-6.09	peak
2	15960.000	50.60	-0.63	49.97	54.00	-4.03	peak

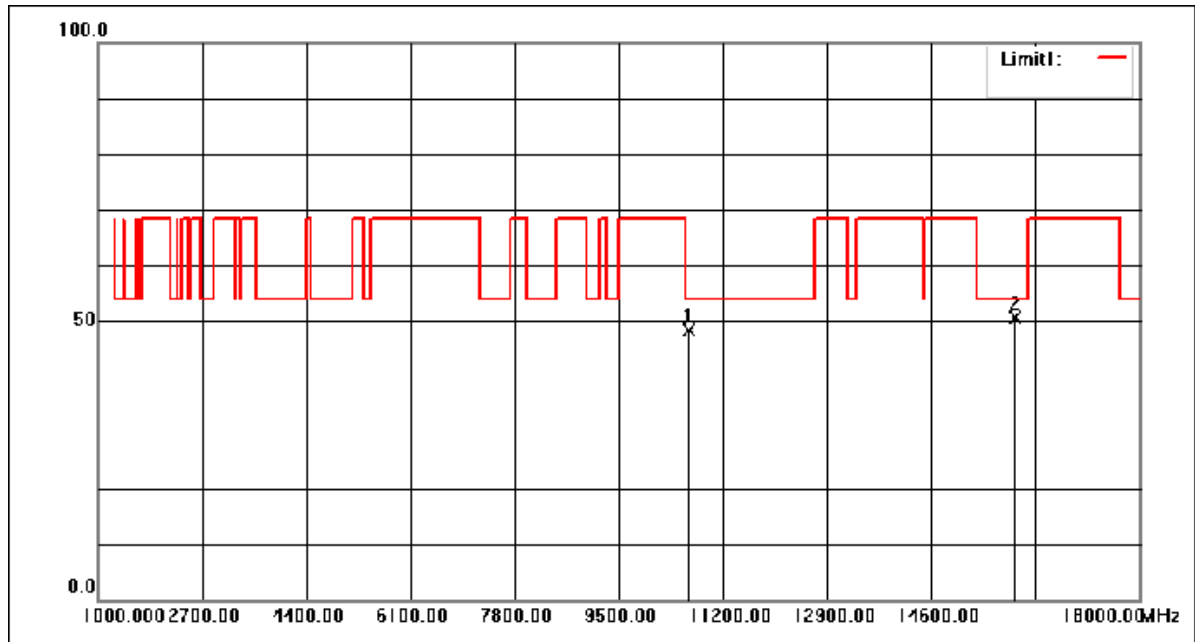


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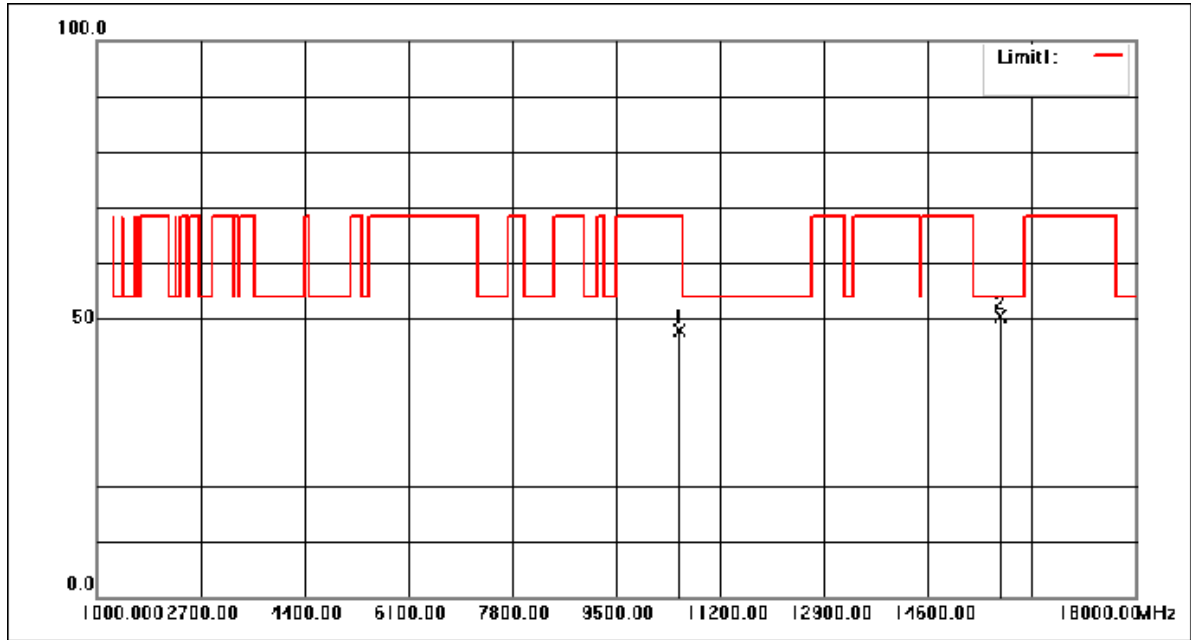
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	10640.000	50.38	-2.01	48.37	54.00	-5.63	peak
2	15960.000	51.35	-0.63	50.72	54.00	-3.28	peak



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



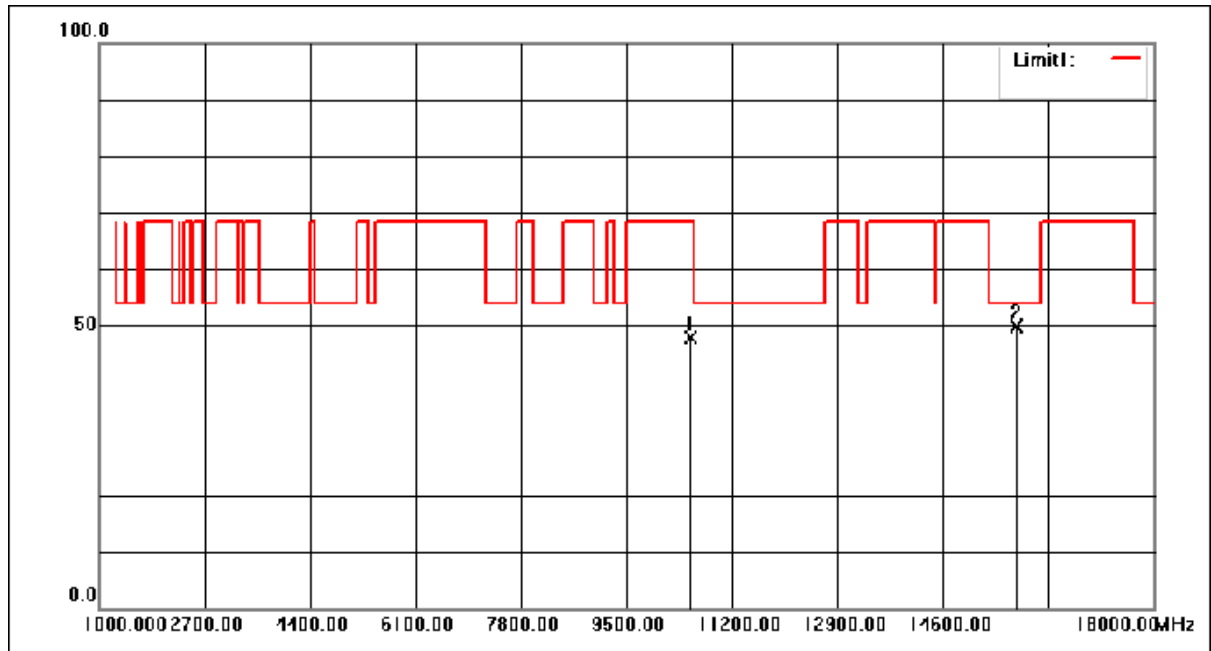
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	50.29	-2.33	47.96	68.30	-20.34	peak
2	15780.000	50.98	-0.49	50.49	54.00	-3.51	peak



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



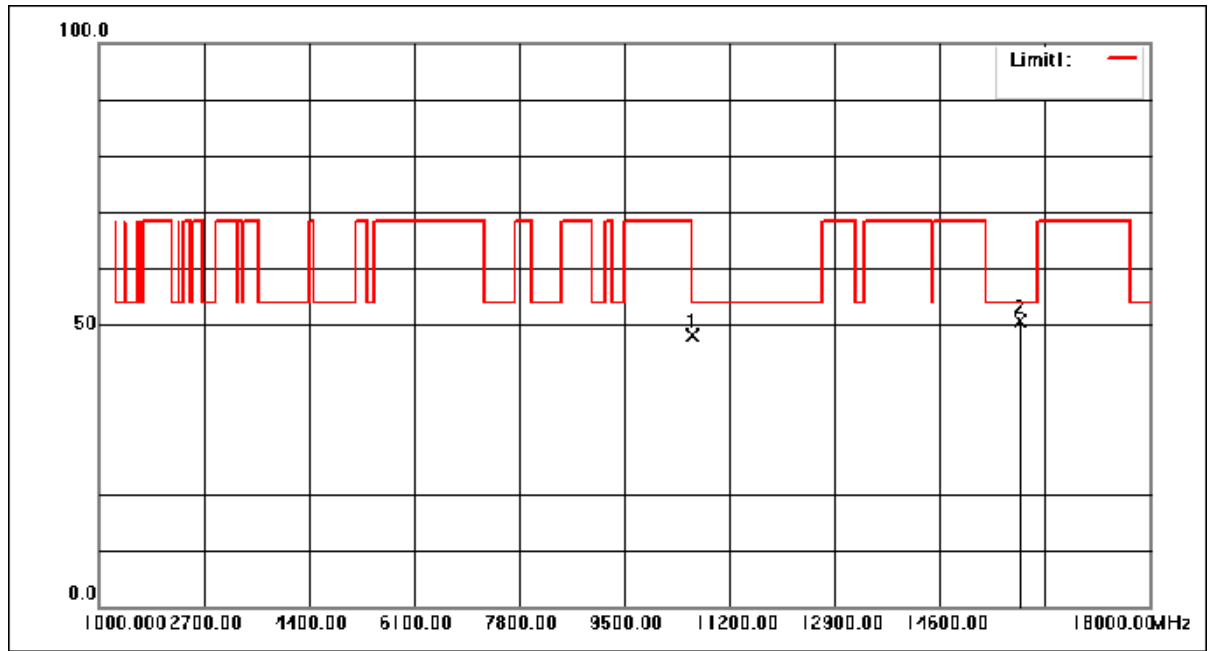
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	50.32	-2.33	47.99	68.30	-20.31	peak
2	15780.000	50.45	-0.49	49.96	54.00	-4.04	peak



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



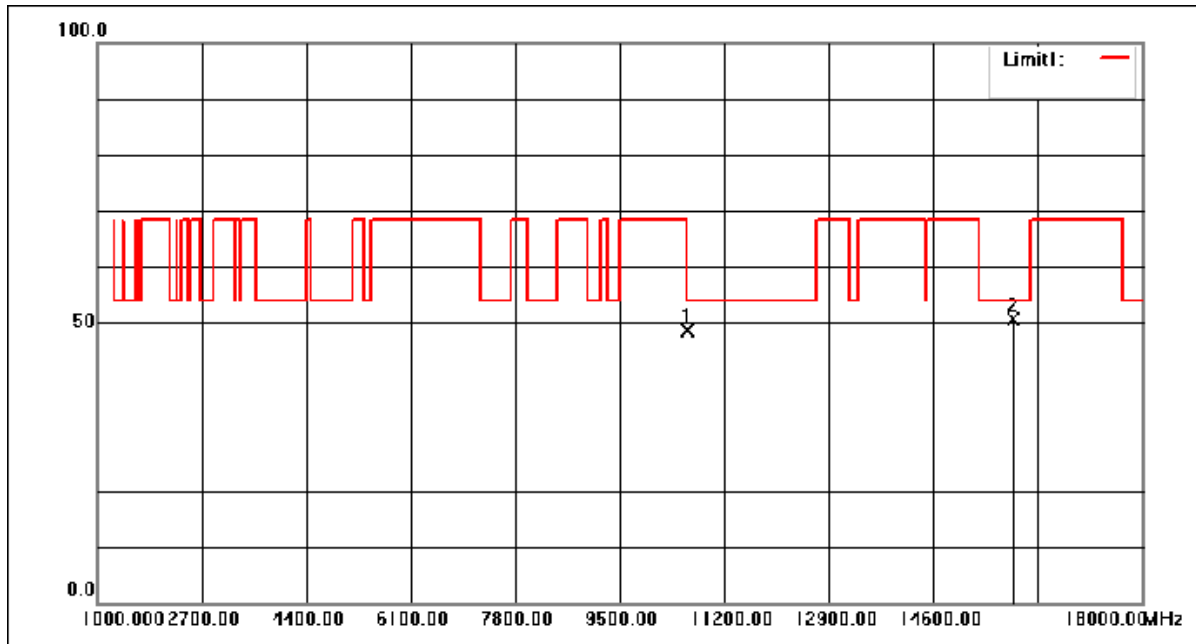
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	50.15	-2.12	48.03	54.00	-5.97	peak
2	15900.000	51.25	-0.58	50.67	54.00	-3.33	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	50.79	-2.12	48.67	54.00	-5.33	peak
2	15900.000	51.30	-0.58	50.72	54.00	-3.28	peak

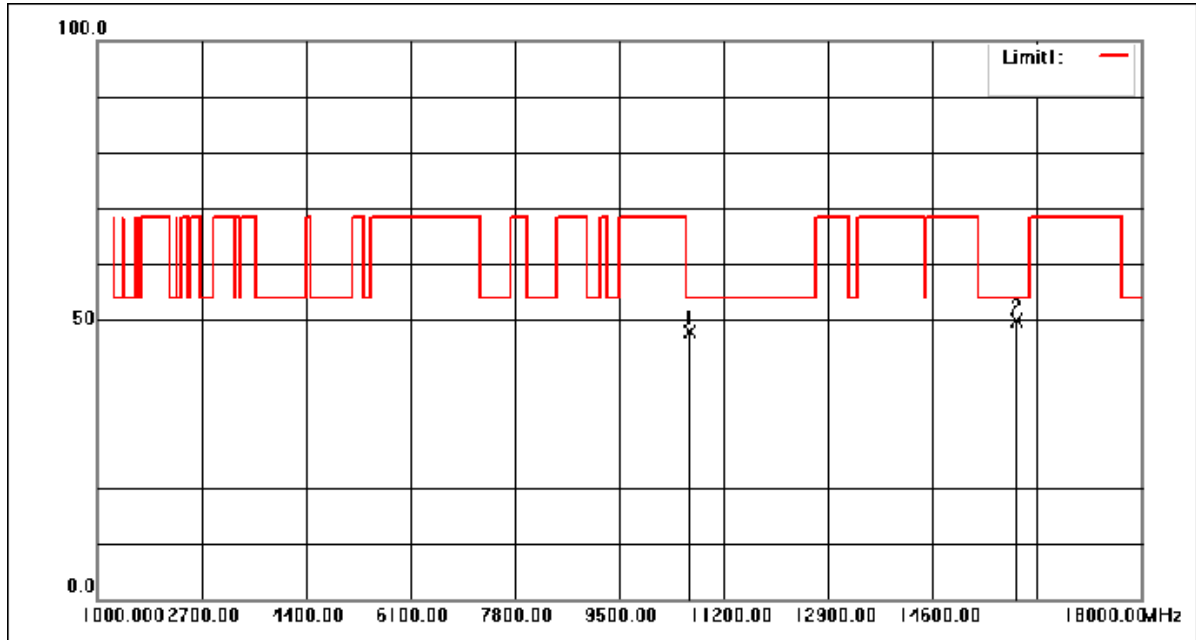


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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



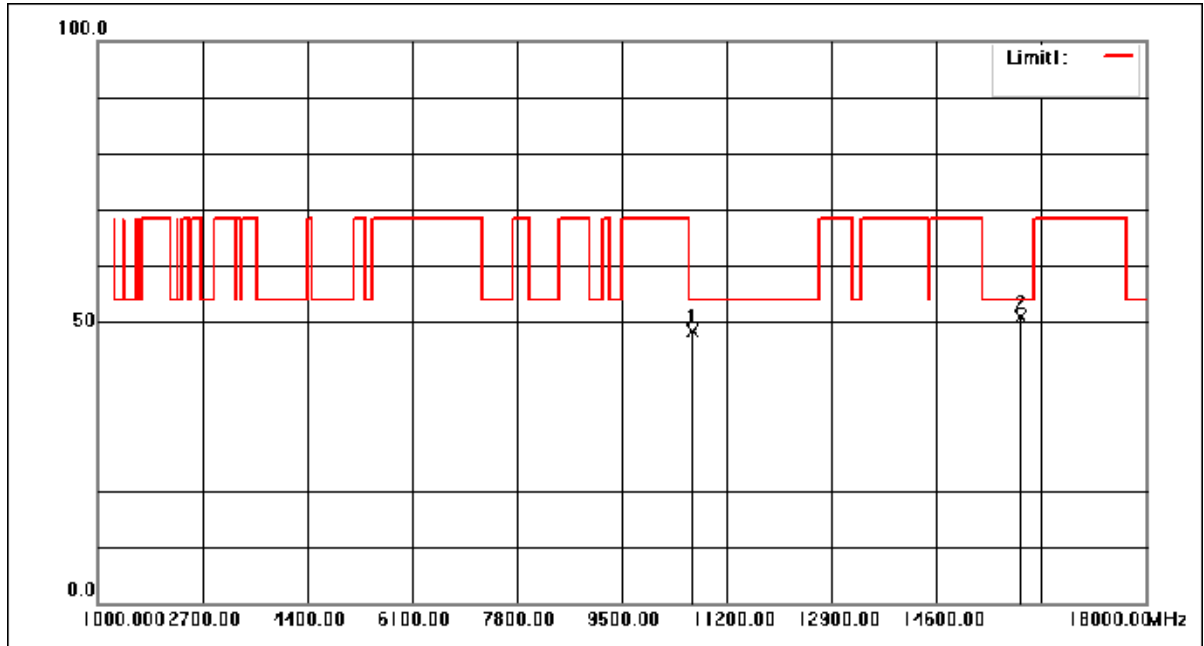
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	49.97	-2.01	47.96	54.00	-6.04	peak
2	15960.000	50.61	-0.63	49.98	54.00	-4.02	peak



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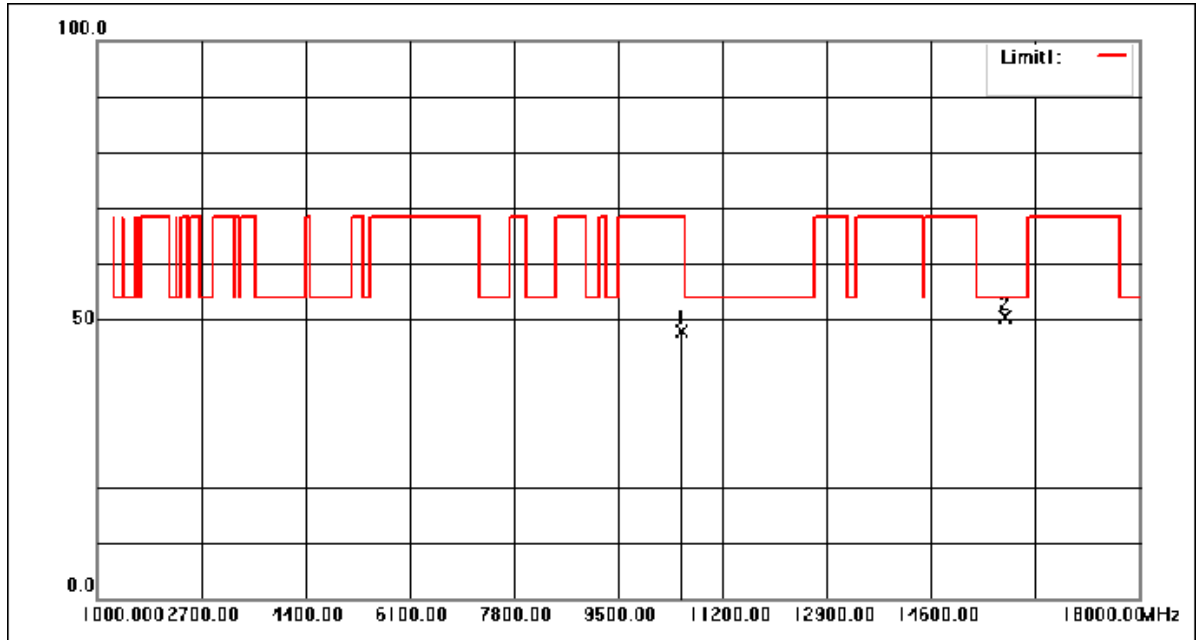
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	50.33	-2.01	48.32	54.00	-5.68	peak
2	15960.000	51.51	-0.63	50.88	54.00	-3.12	peak



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



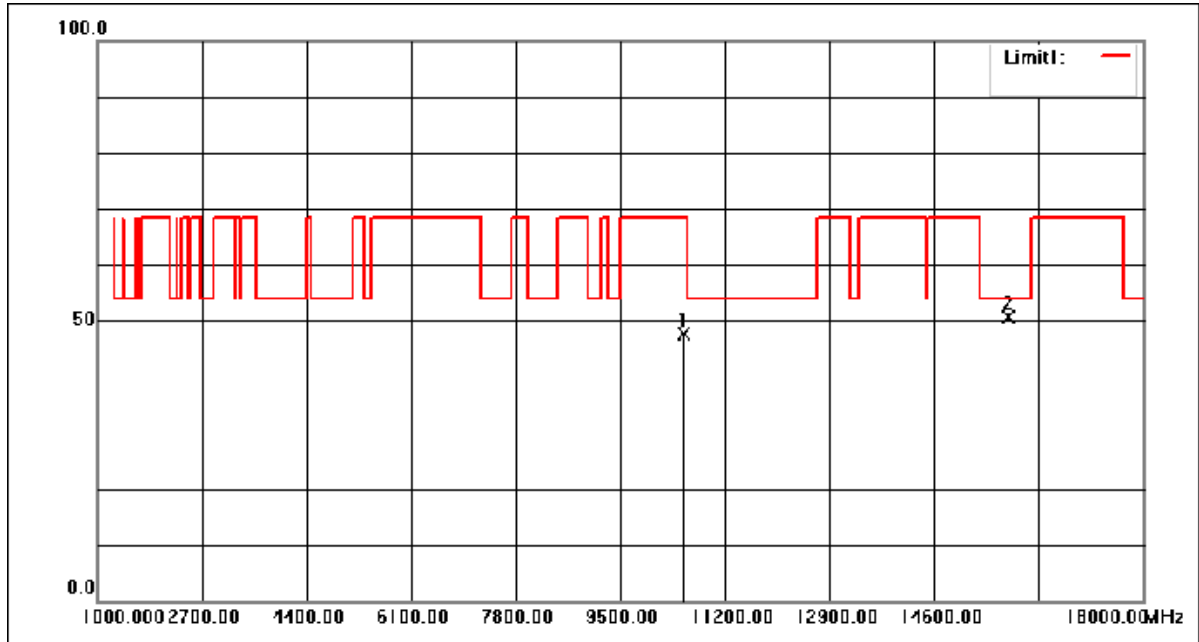
No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	10540.000	50.25	-2.28	47.97	68.30	-20.33	peak
2	15810.000	51.00	-0.51	50.49	54.00	-3.51	peak



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



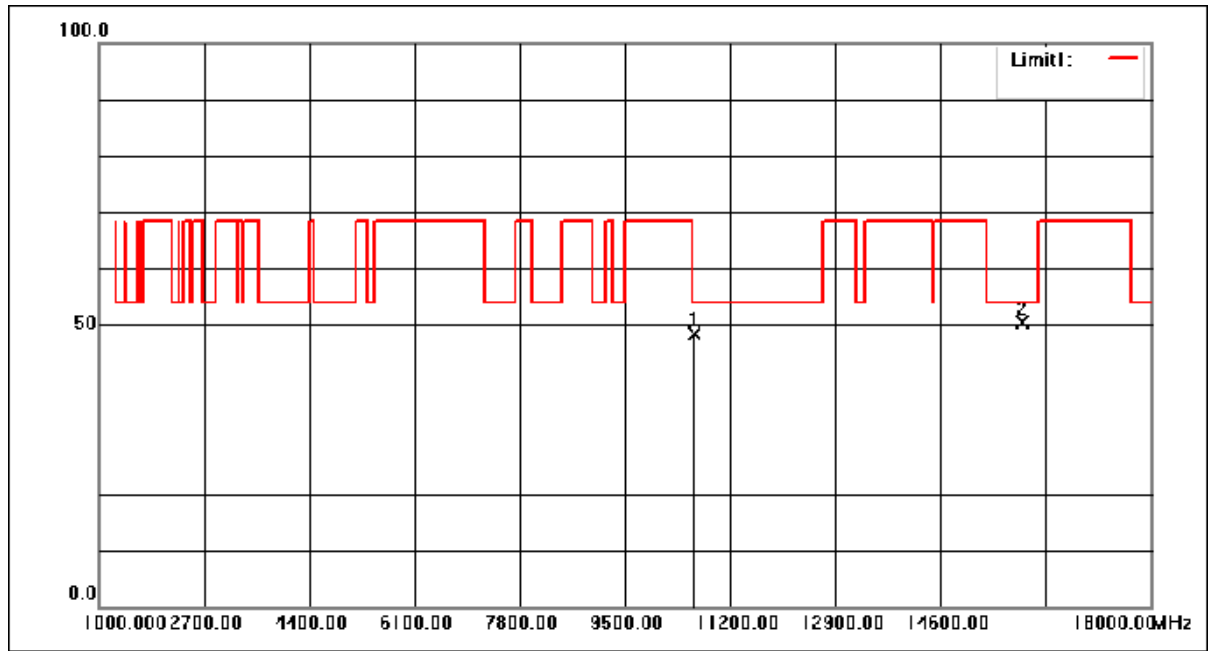
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10540.000	49.94	-2.28	47.66	68.30	-20.64	peak
2	15810.000	51.08	-0.51	50.57	54.00	-3.43	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10620.000	50.44	-2.07	48.37	54.00	-5.63	peak
2	15930.000	51.09	-0.61	50.48	54.00	-3.52	peak

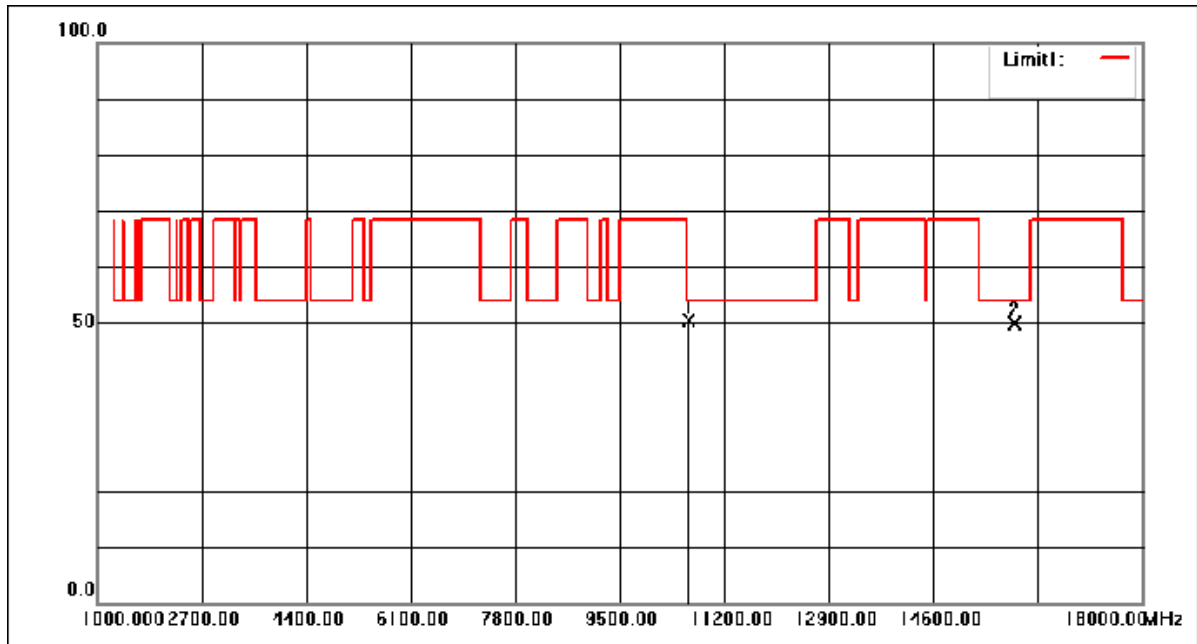


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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



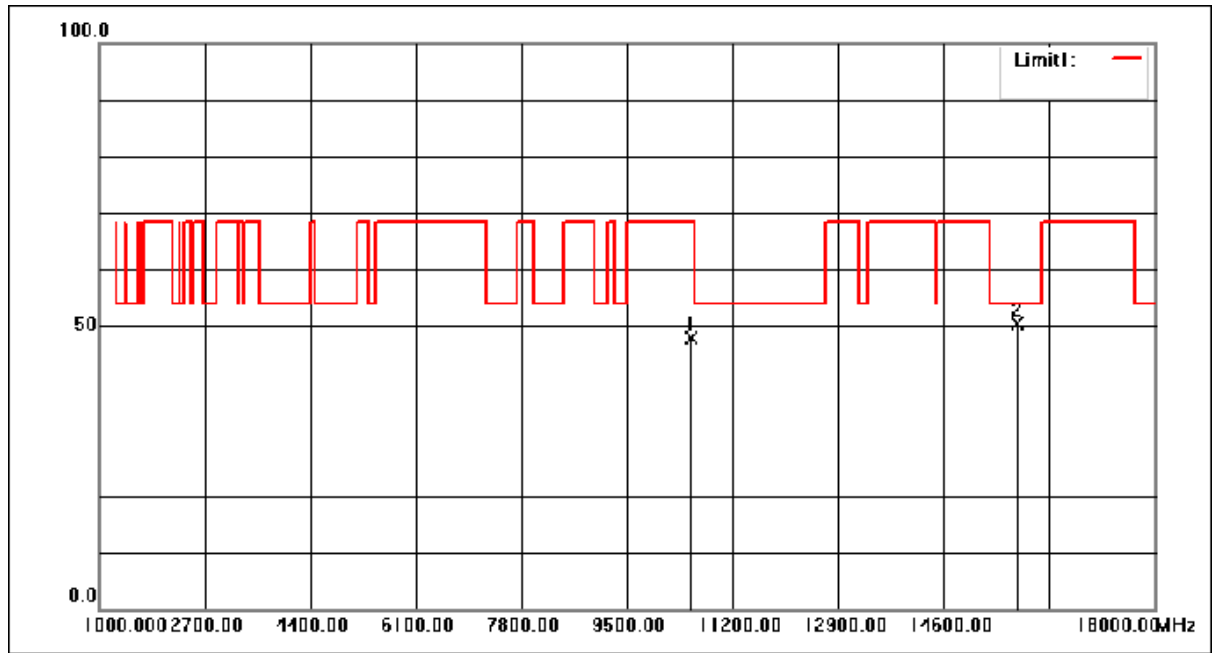
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10620.000	52.54	-2.07	50.47	54.00	-3.53	peak
2	15930.000	50.47	-0.61	49.86	54.00	-4.14	peak



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



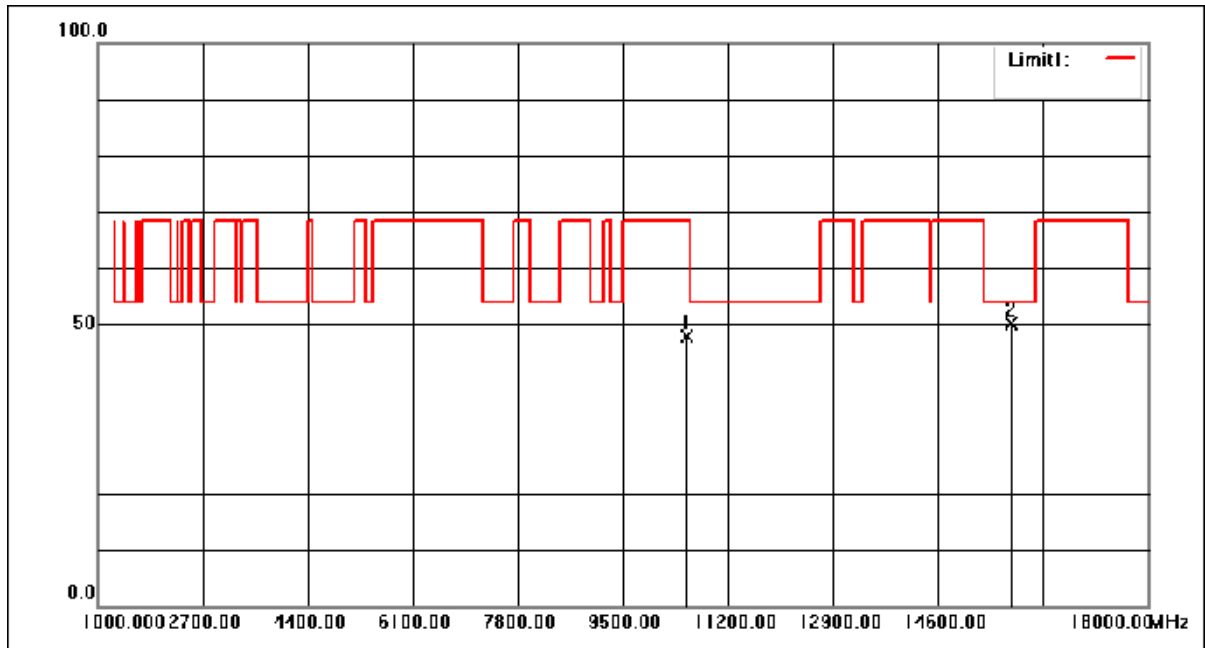
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	50.29	-2.33	47.96	68.30	-20.34	peak
2	15780.000	50.95	-0.49	50.46	54.00	-3.54	peak



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



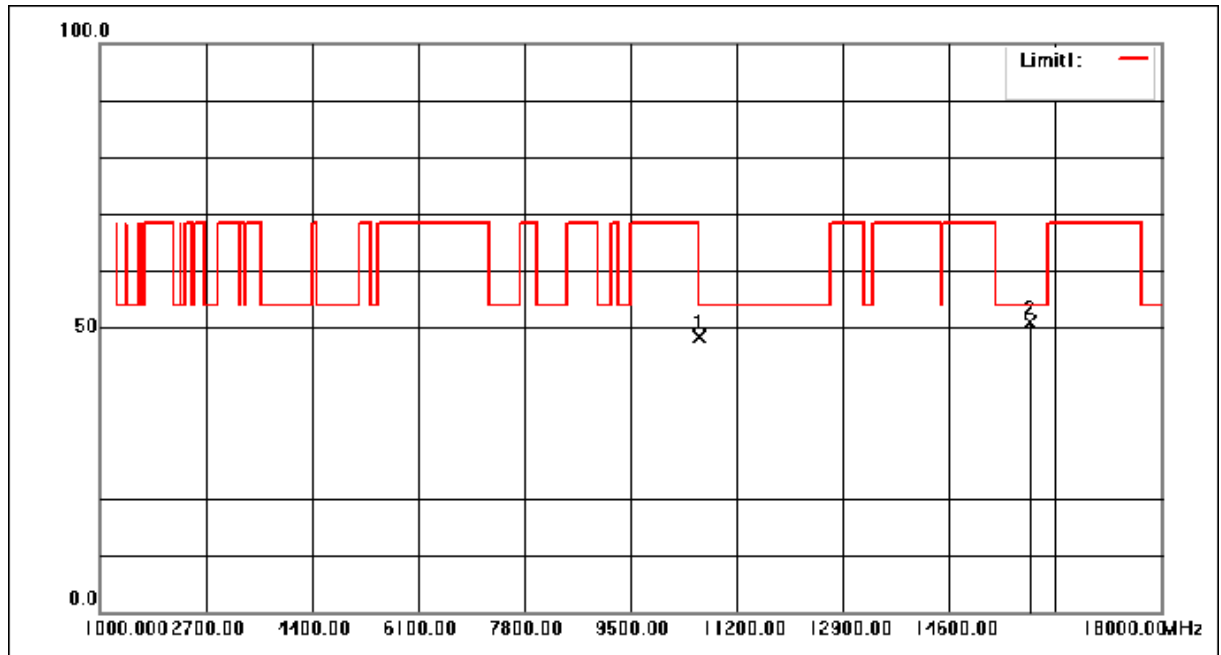
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	50.29	-2.33	47.96	68.30	-20.34	peak
2	15780.000	50.66	-0.49	50.17	54.00	-3.83	peak



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



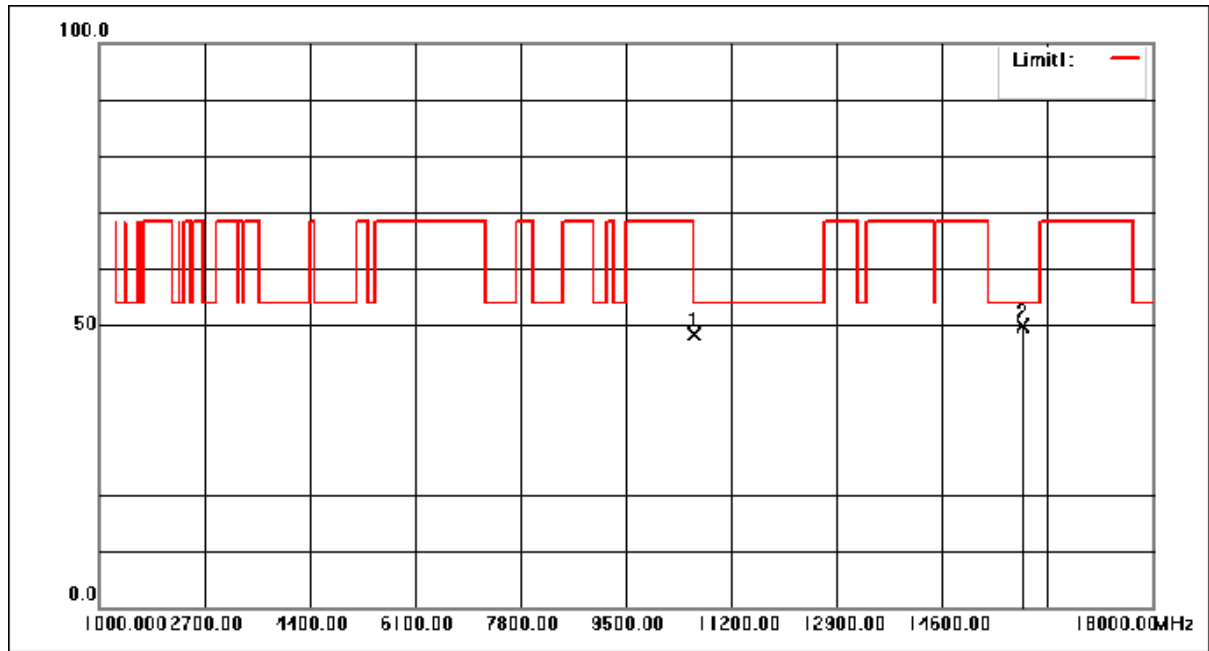
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	50.49	-2.12	48.37	54.00	-5.63	peak
2	15900.000	51.34	-0.58	50.76	54.00	-3.24	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	50.40	-2.12	48.28	54.00	-5.72	peak
2	15900.000	50.54	-0.58	49.96	54.00	-4.04	peak

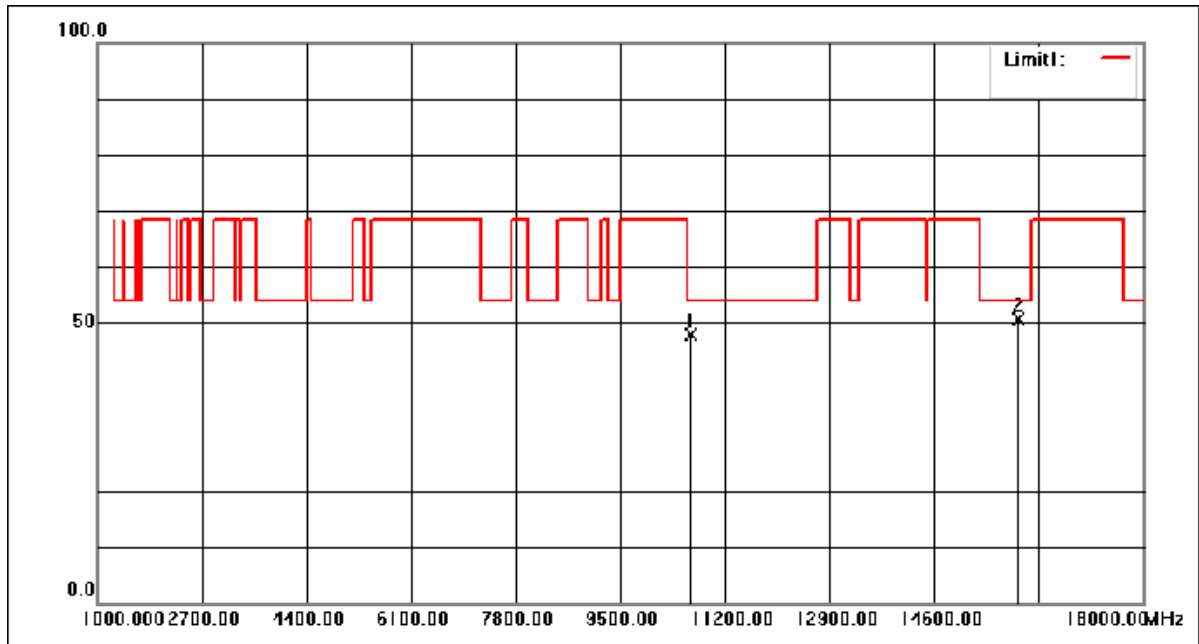


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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



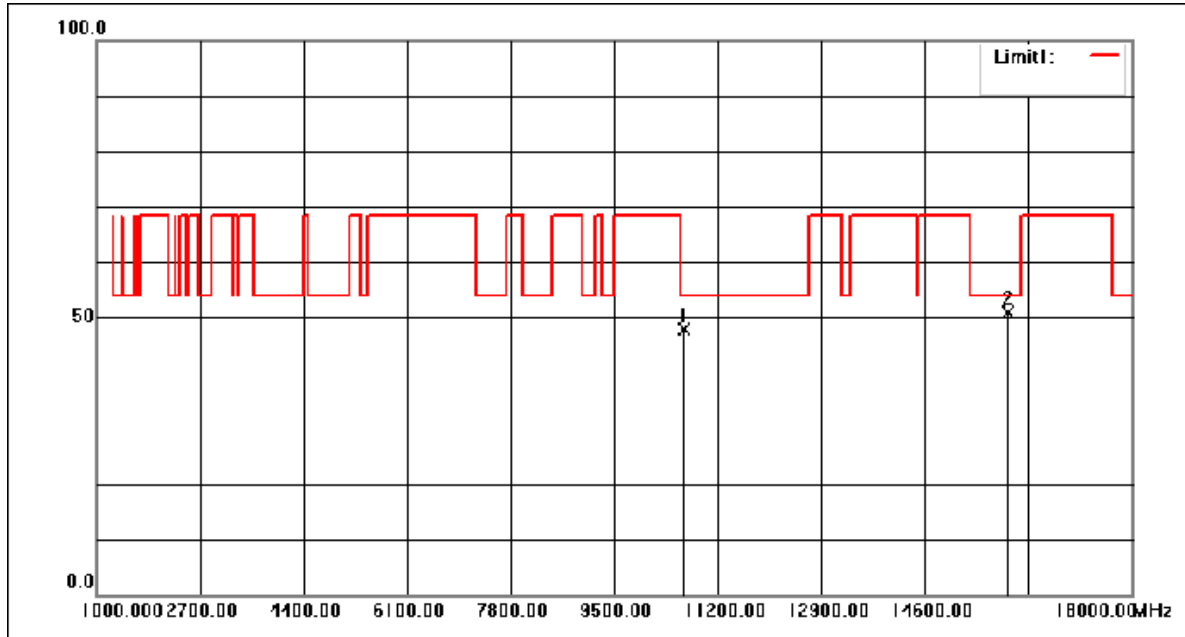
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	49.97	-2.01	47.96	54.00	-6.04	peak
2	15960.000	51.36	-0.63	50.73	54.00	-3.27	peak



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



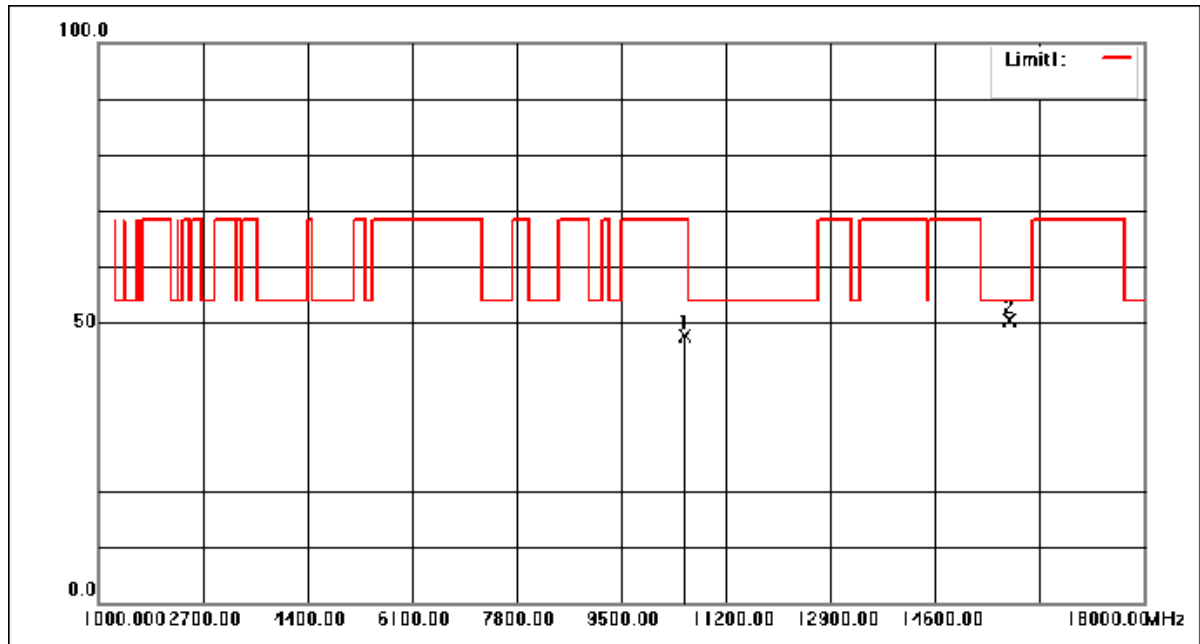
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	50.00	-2.01	47.99	54.00	-6.01	peak
2	15960.000	51.40	-0.63	50.77	54.00	-3.23	peak



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



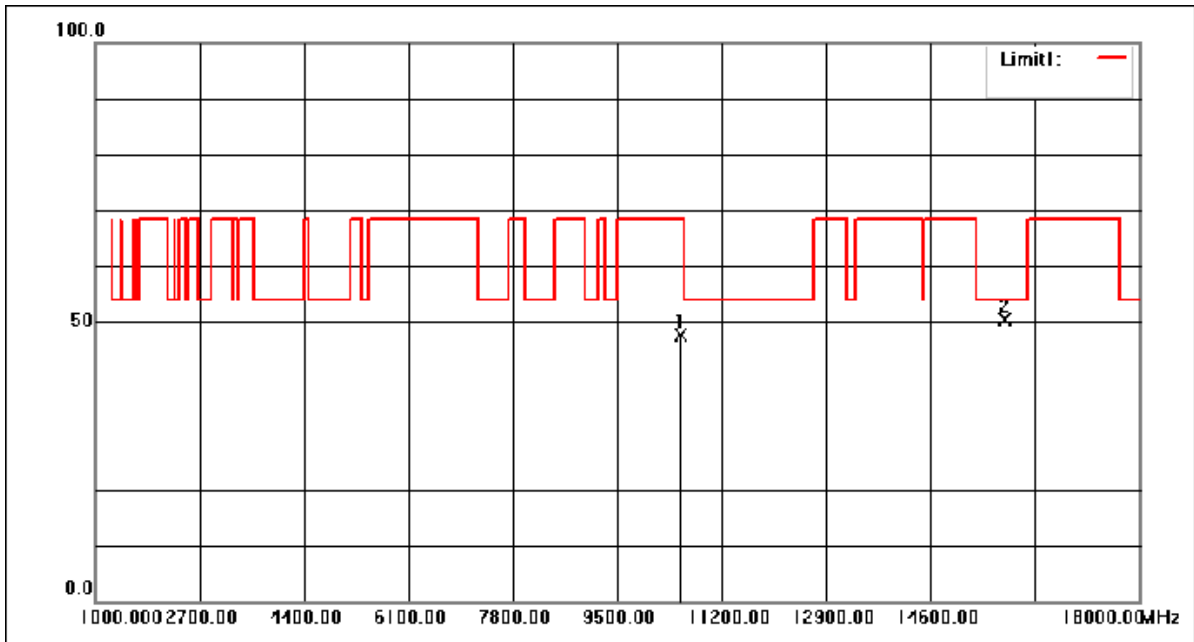
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10540.000	49.94	-2.28	47.66	68.30	-20.64	peak
2	15810.000	50.85	-0.51	50.34	54.00	-3.66	peak



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



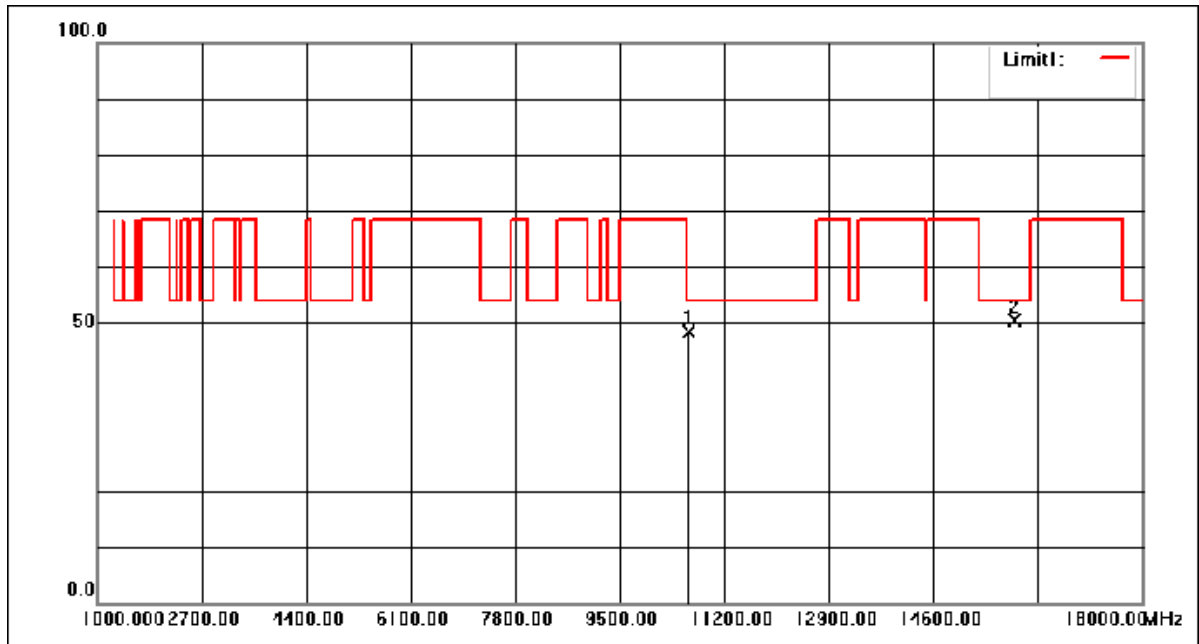
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	10540.000	49.96	-2.28	47.68	68.30	-20.62	peak
2	15810.000	50.88	-0.51	50.37	54.00	-3.63	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10620.000	50.44	-2.07	48.37	54.00	-5.63	peak
2	15930.000	51.04	-0.61	50.43	54.00	-3.57	peak

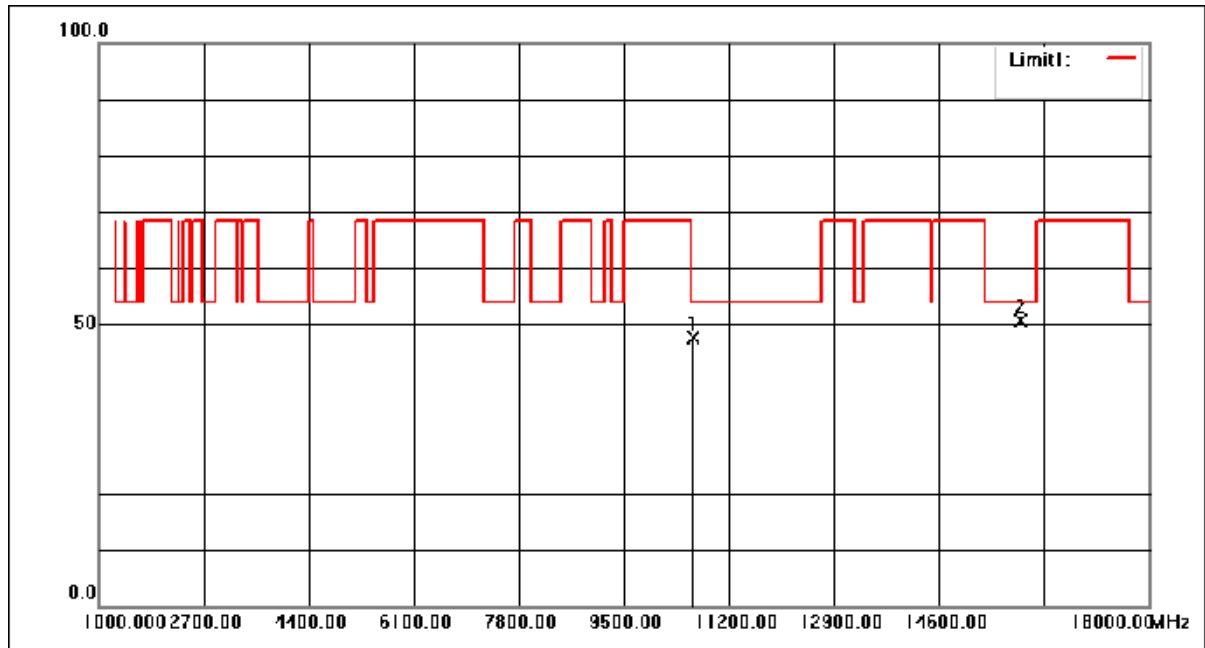


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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



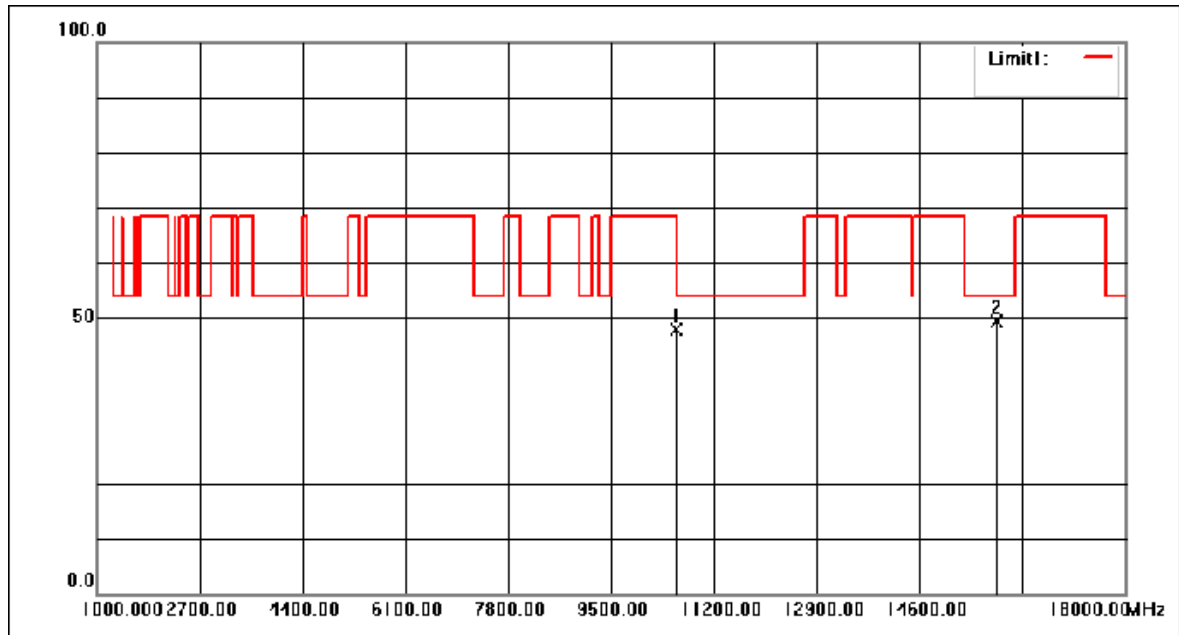
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10620.000	49.75	-2.07	47.68	54.00	-6.32	peak
2	15930.000	51.28	-0.61	50.67	54.00	-3.33	peak



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



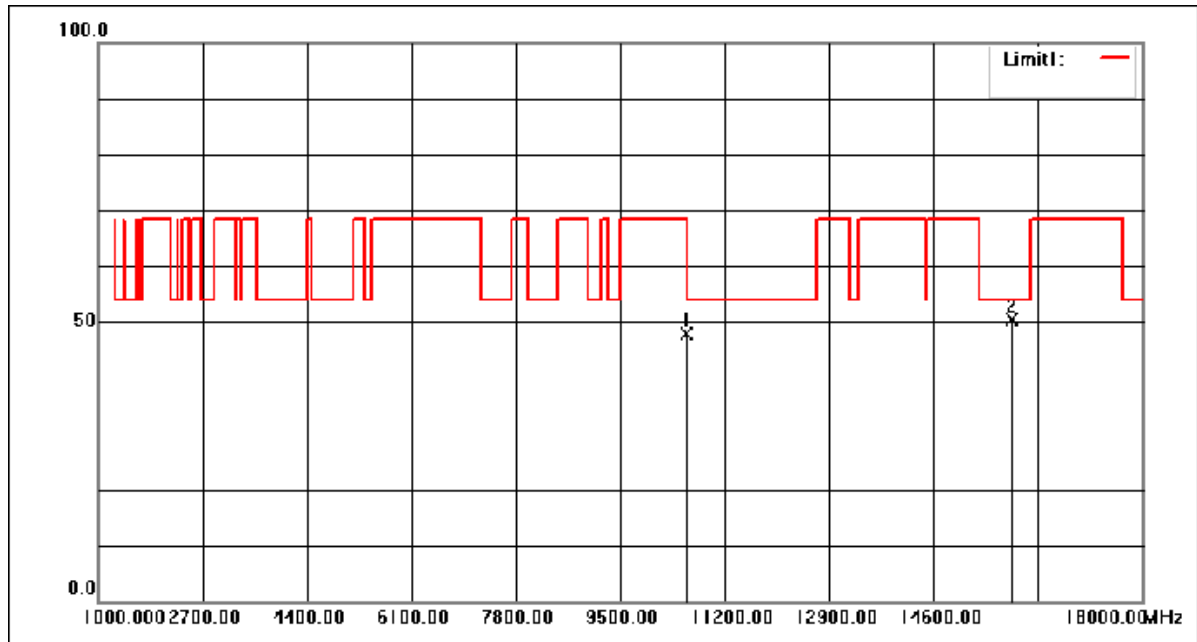
No.	Frequency (MHz)	Reading ( )	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	10580.000	50.15	-2.17	47.98	68.30	-20.32	peak
2	15870.000	49.95	-0.56	49.39	54.00	-4.61	peak



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



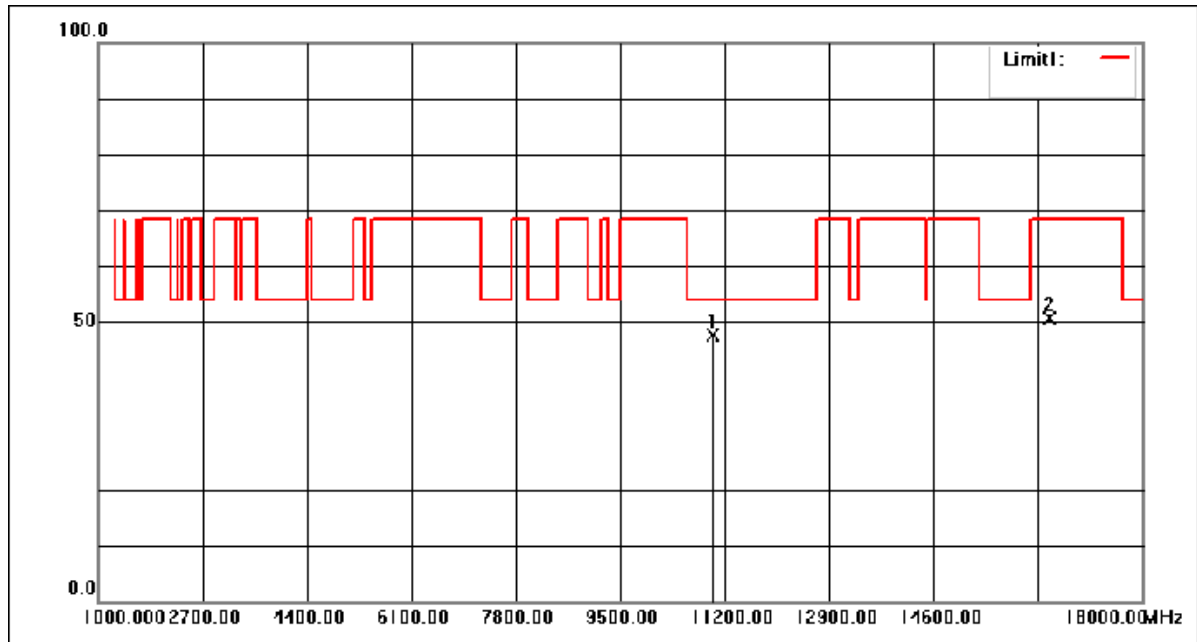
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10580.000	50.13	-2.17	47.96	68.30	-20.34	peak
2	15870.000	51.05	-0.56	50.49	54.00	-3.51	peak



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



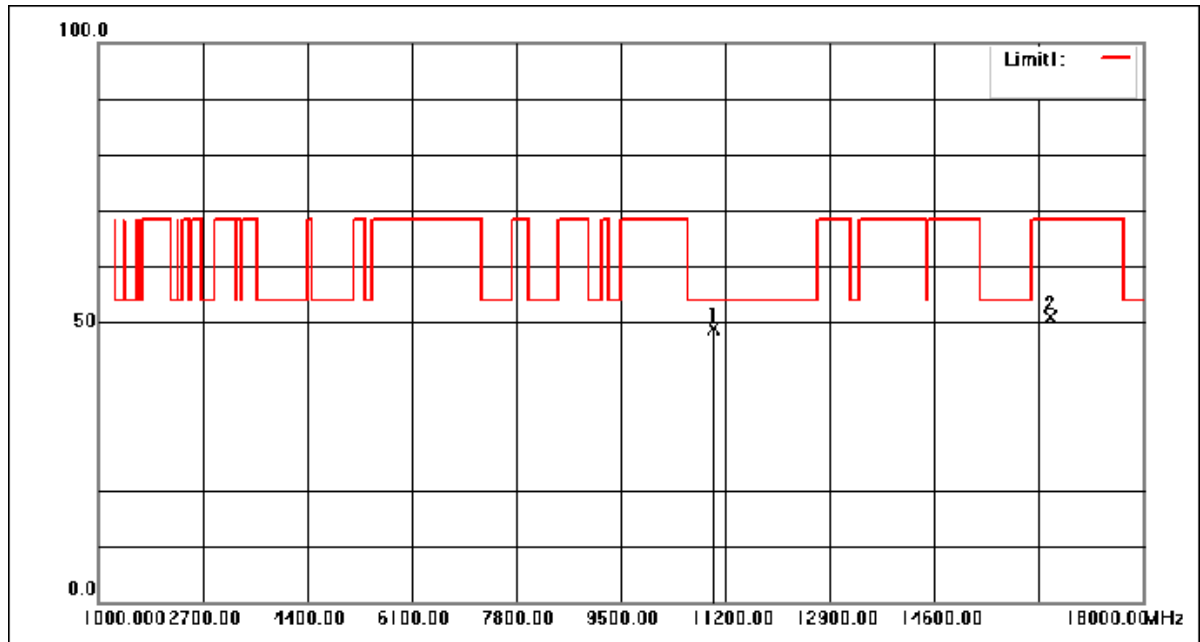
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	11000.000	48.76	-1.07	47.69	54.00	-6.31	peak
2	16500.000	50.27	0.28	50.55	68.30	-17.75	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	50.03	-1.07	48.96	54.00	-5.04	peak
2	16500.000	50.58	0.28	50.86	68.30	-17.44	peak

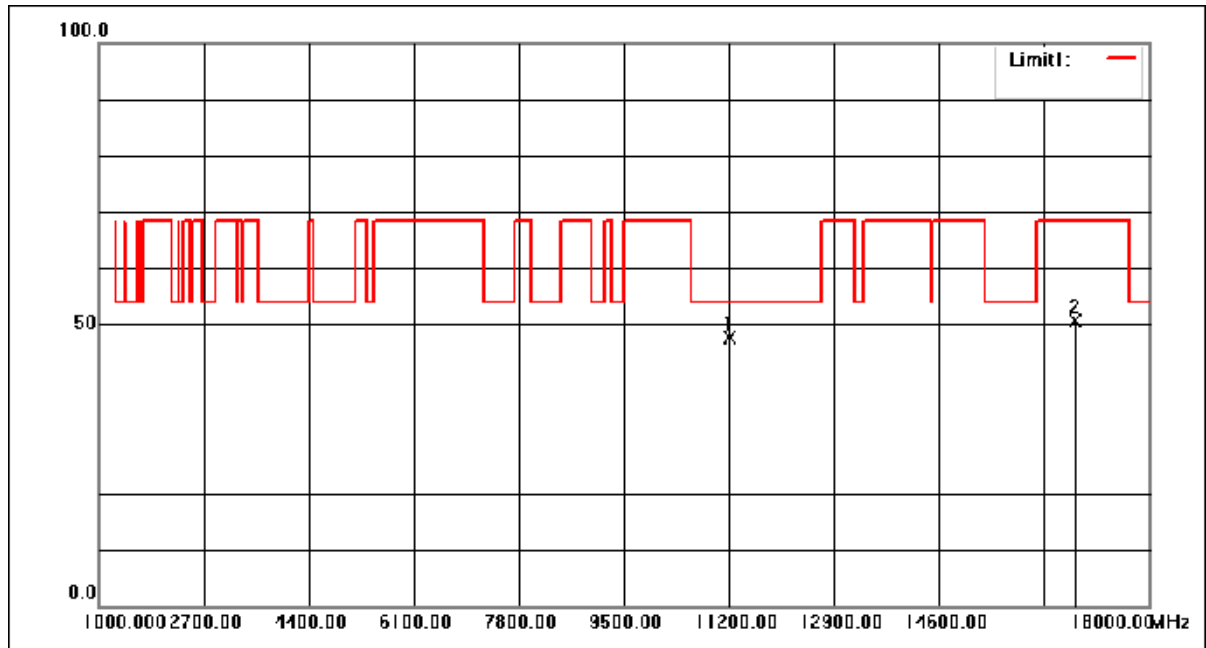


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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



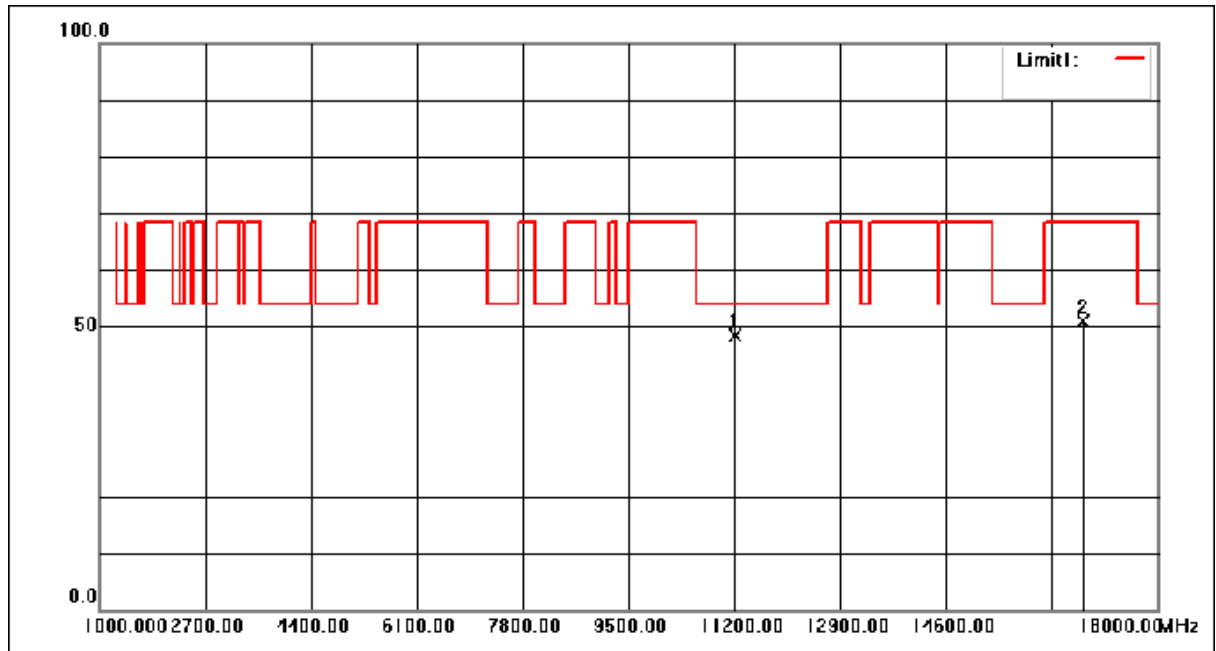
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11200.000	49.24	-1.55	47.69	54.00	-6.31	peak
2	16800.000	50.61	0.11	50.72	68.30	-17.58	peak



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



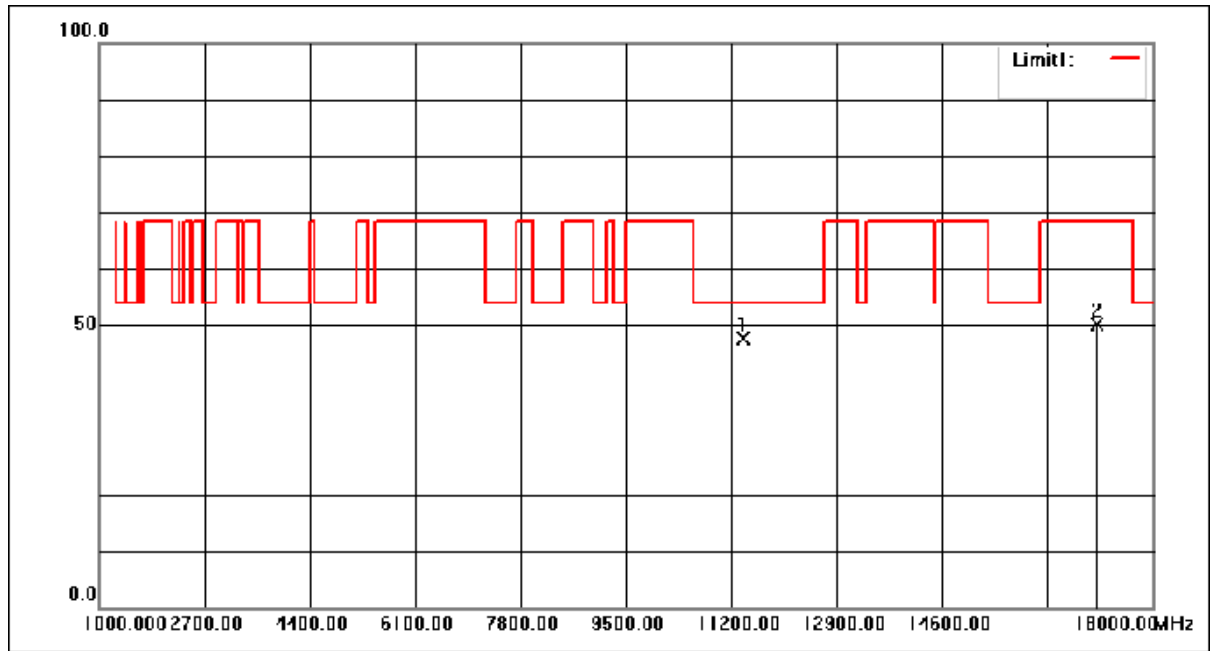
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11200.000	49.89	-1.55	48.34	54.00	-5.66	peak
2	16800.000	50.65	0.11	50.76	68.30	-17.54	peak



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



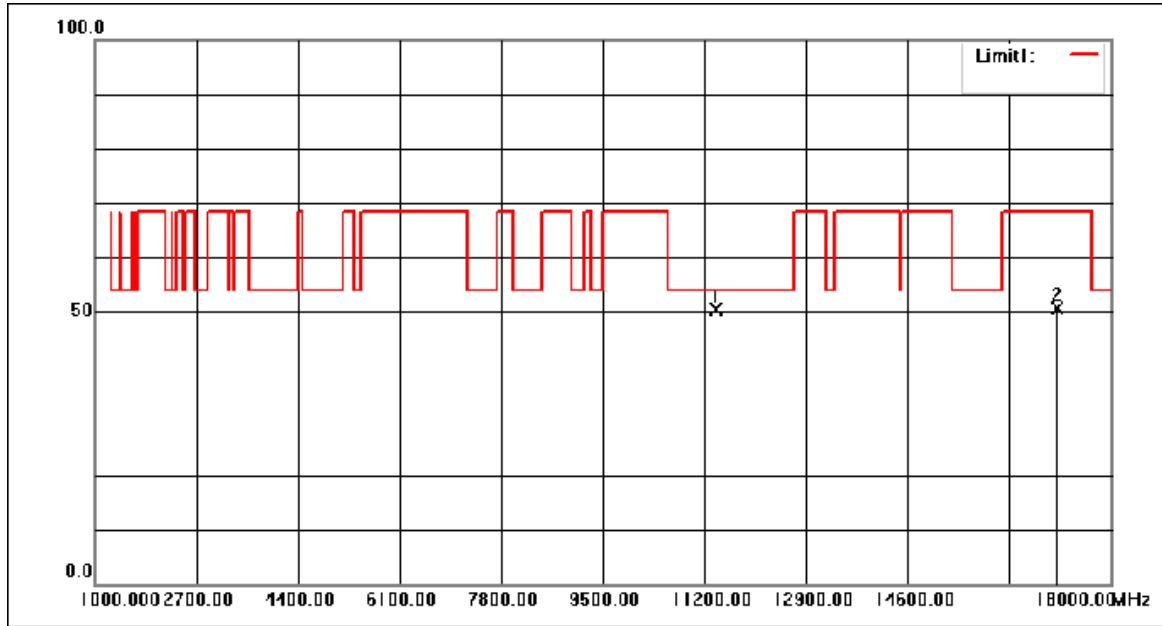
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	49.63	-2.02	47.61	54.00	-6.39	peak
2	17100.000	50.27	-0.08	50.19	68.30	-18.11	peak



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



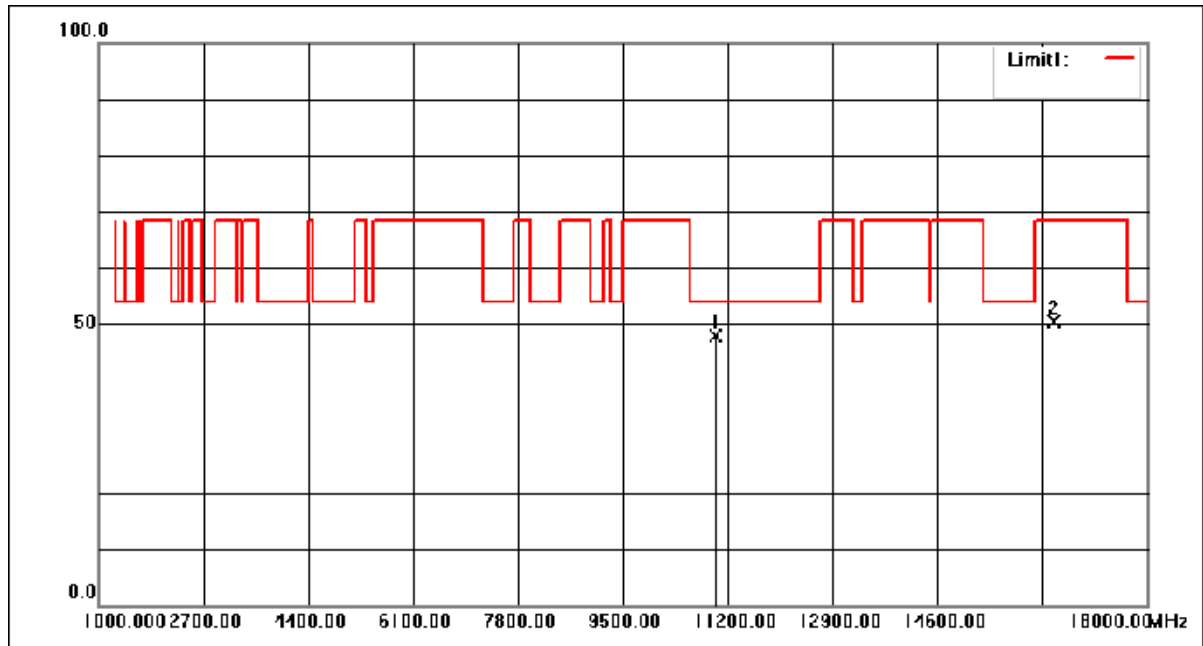
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	52.36	-2.02	50.34	54.00	-3.66	peak
2	17100.000	50.74	-0.08	50.66	68.30	-17.64	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	49.03	-1.07	47.96	54.00	-6.04	peak
2	16500.000	49.99	0.28	50.27	68.30	-18.03	peak

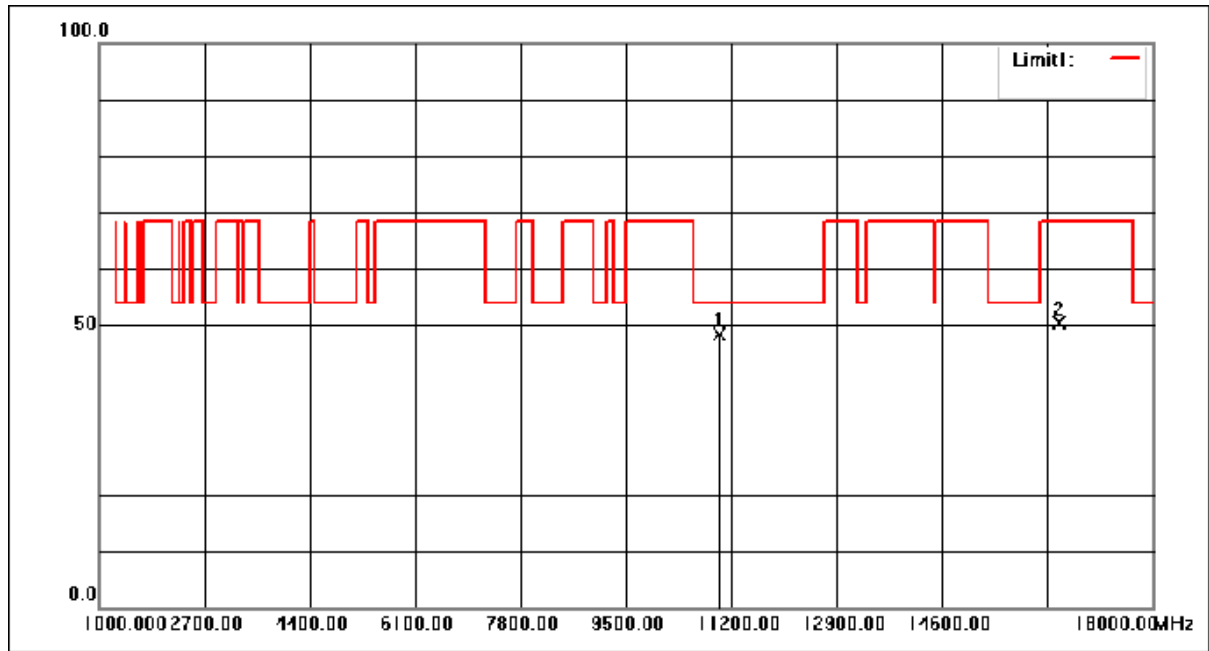


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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



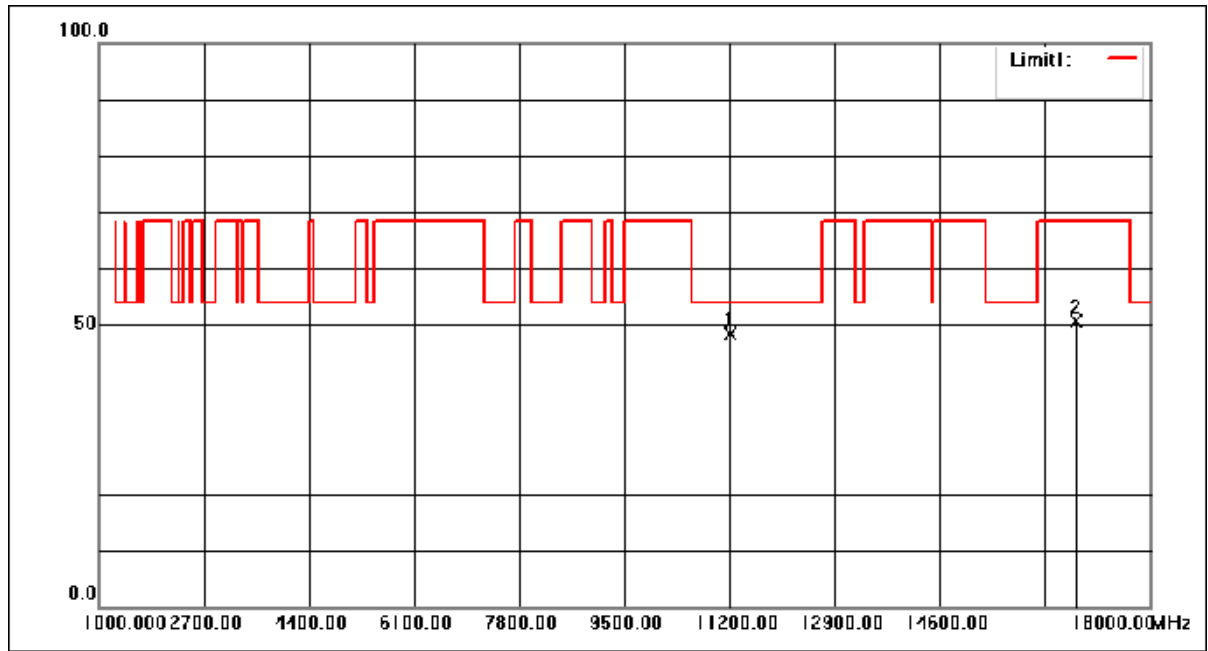
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	49.44	-1.07	48.37	54.00	-5.63	peak
2	16500.000	50.14	0.28	50.42	68.30	-17.88	peak



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



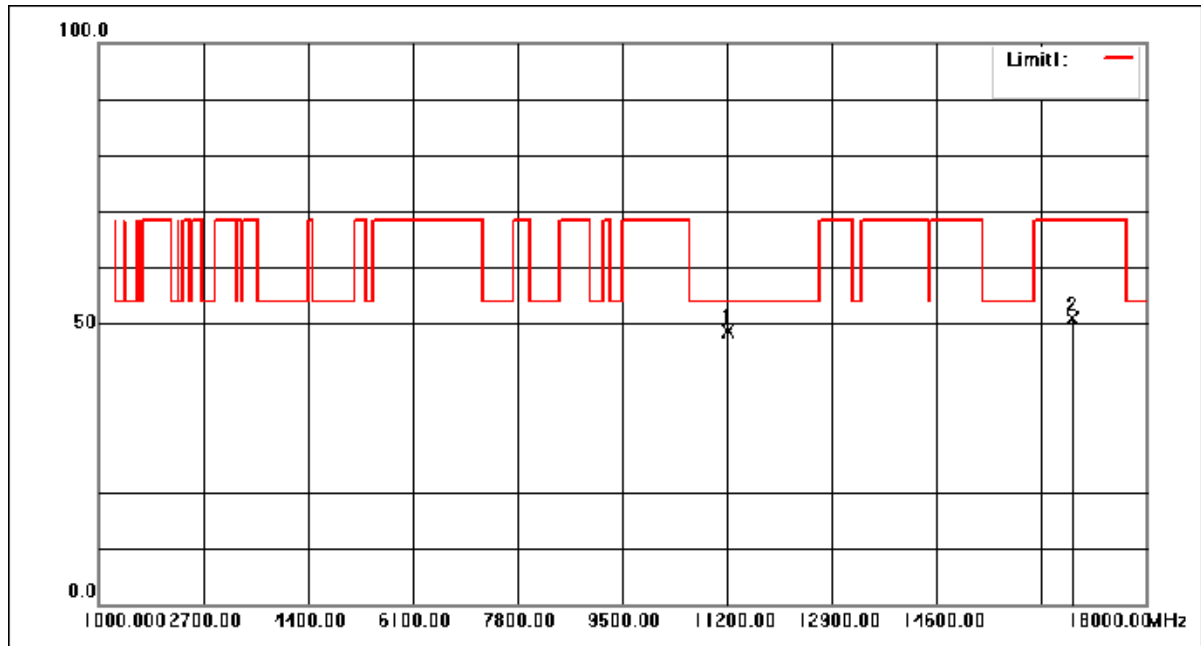
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11200.000	49.92	-1.55	48.37	54.00	-5.63	peak
2	16800.000	50.62	0.11	50.73	68.30	-17.57	peak



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



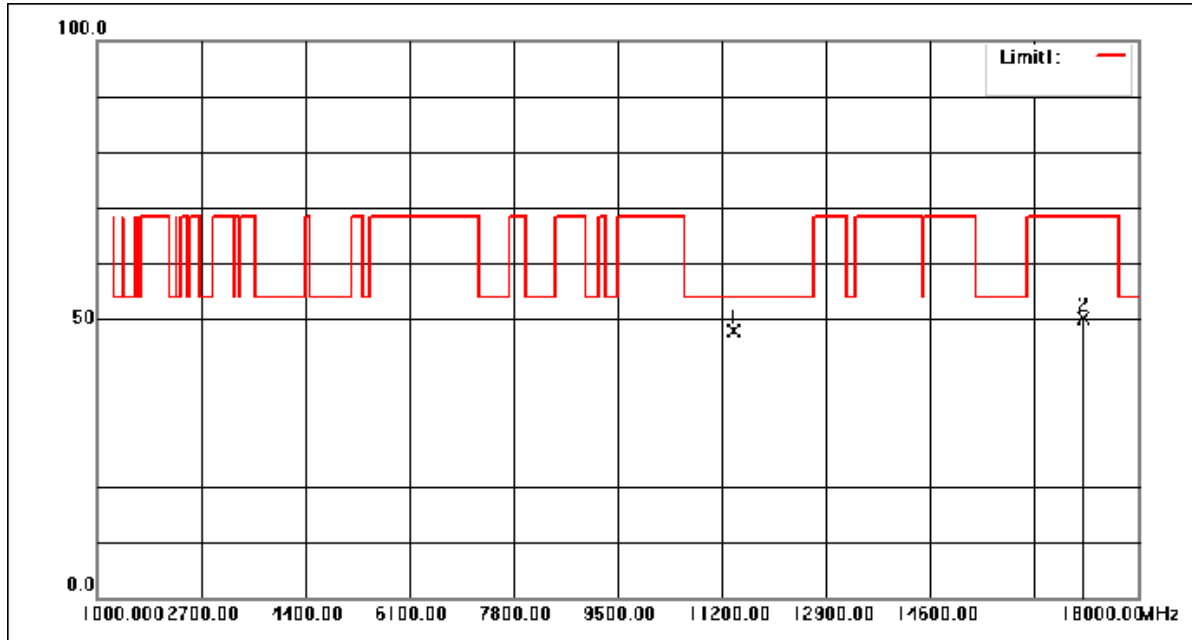
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11200.000	50.27	-1.55	48.72	54.00	-5.28	peak
2	16800.000	50.83	0.11	50.94	68.30	-17.36	peak



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



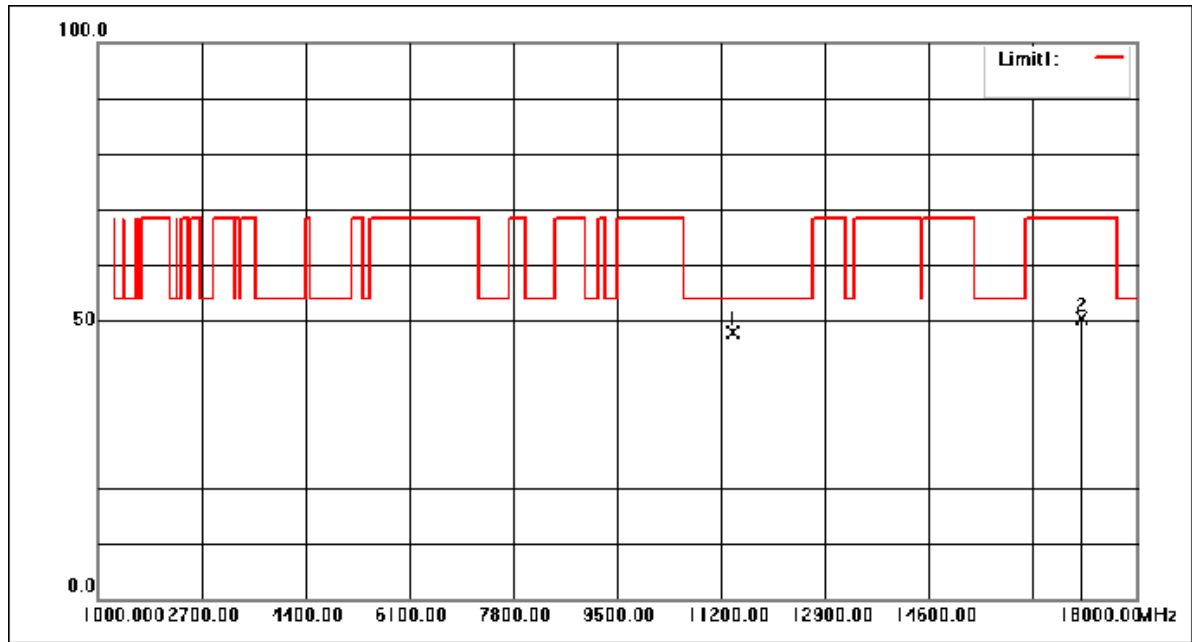
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	49.98	-2.02	47.96	54.00	-6.04	peak
2	17100.000	50.16	-0.08	50.08	68.30	-18.22	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	49.88	-2.02	47.86	54.00	-6.14	peak
2	17100.000	50.45	-0.08	50.37	68.30	-17.93	peak

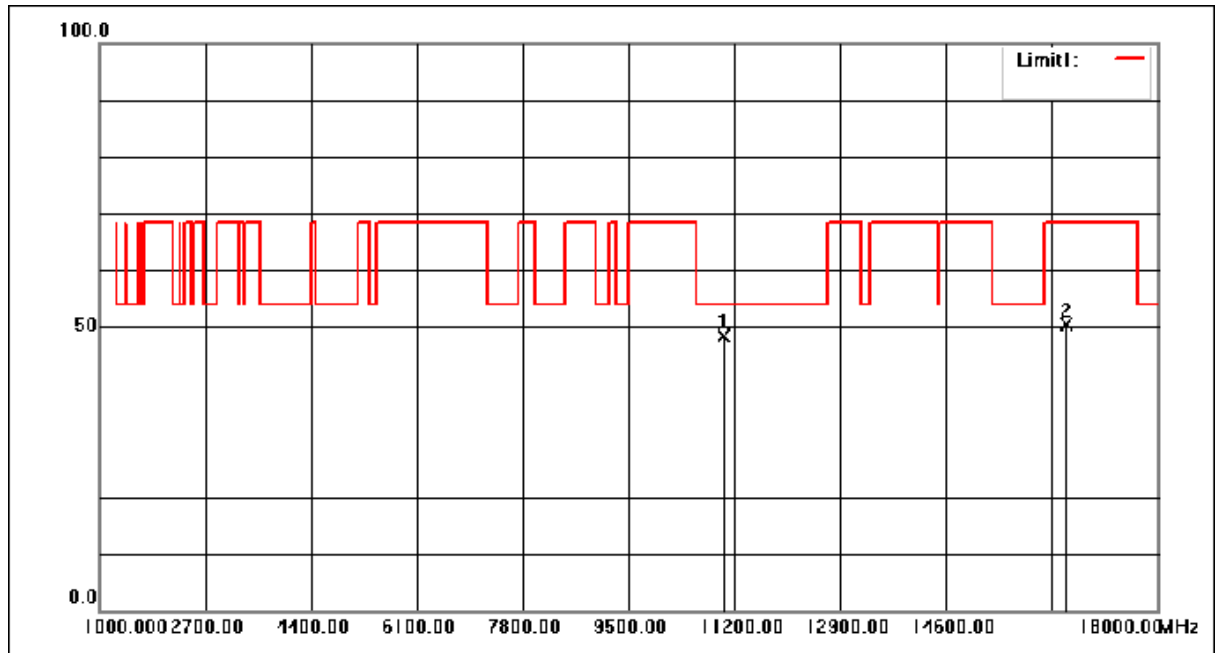


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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



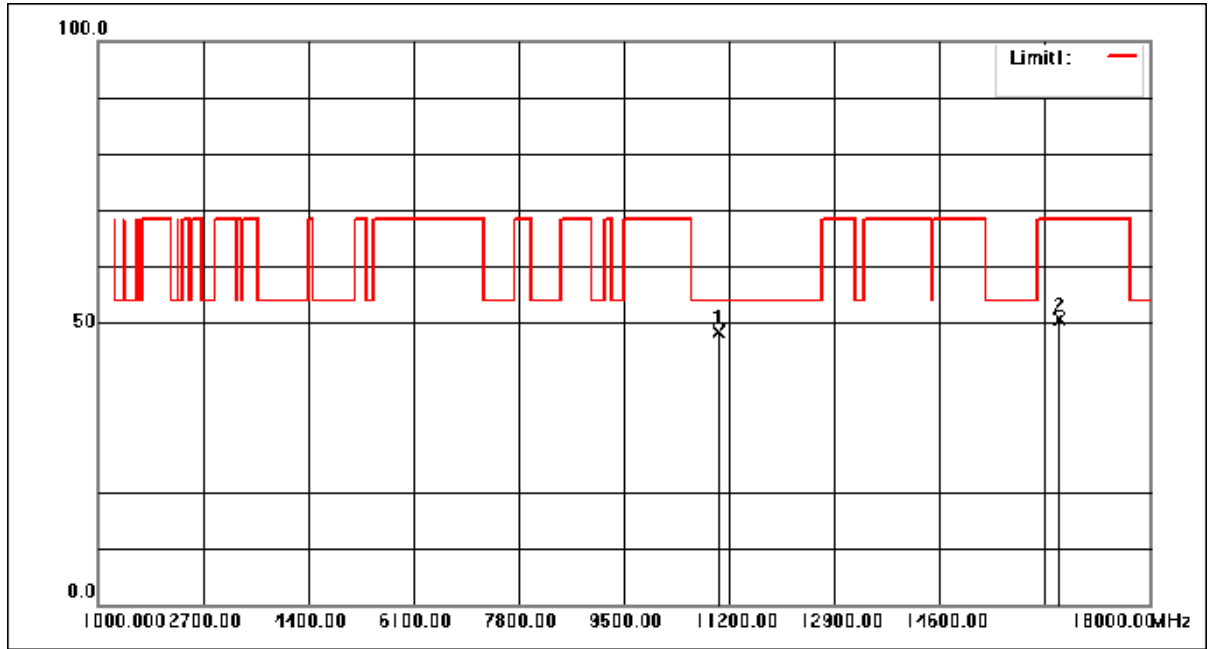
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11020.000	49.39	-1.12	48.27	54.00	-5.73	peak
2	16530.000	50.23	0.26	50.49	68.30	-17.81	peak



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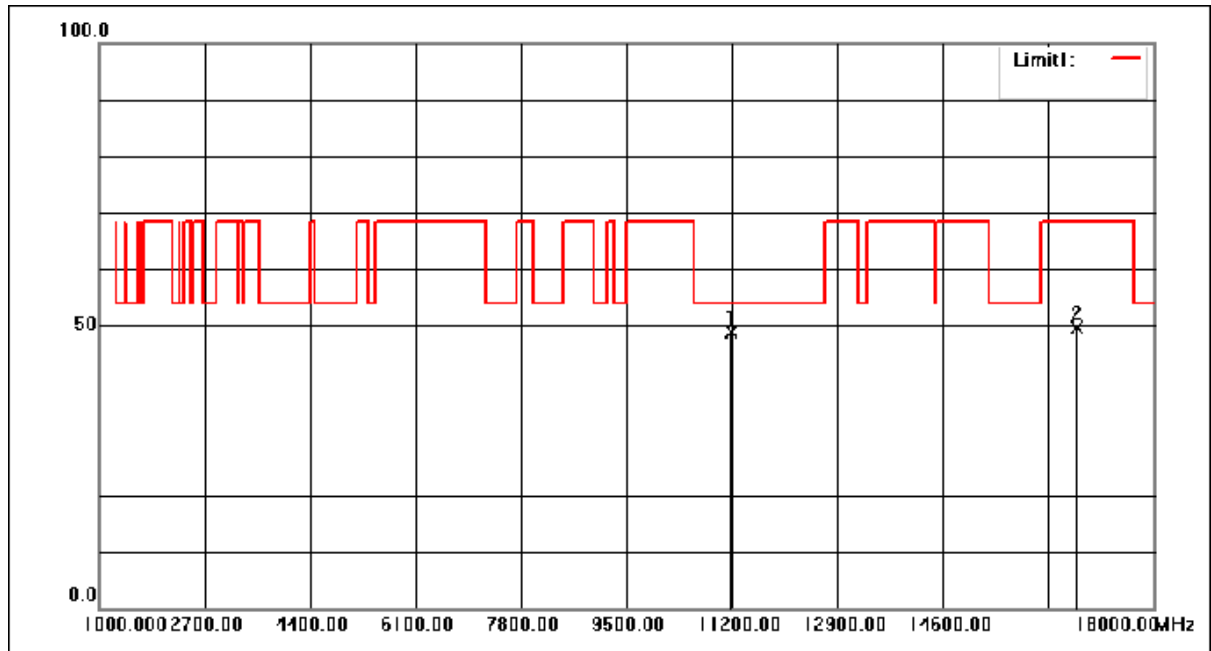
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11020.000	49.49	-1.12	48.37	54.00	-5.63	peak
2	16530.000	50.31	0.26	50.57	68.30	-17.73	peak



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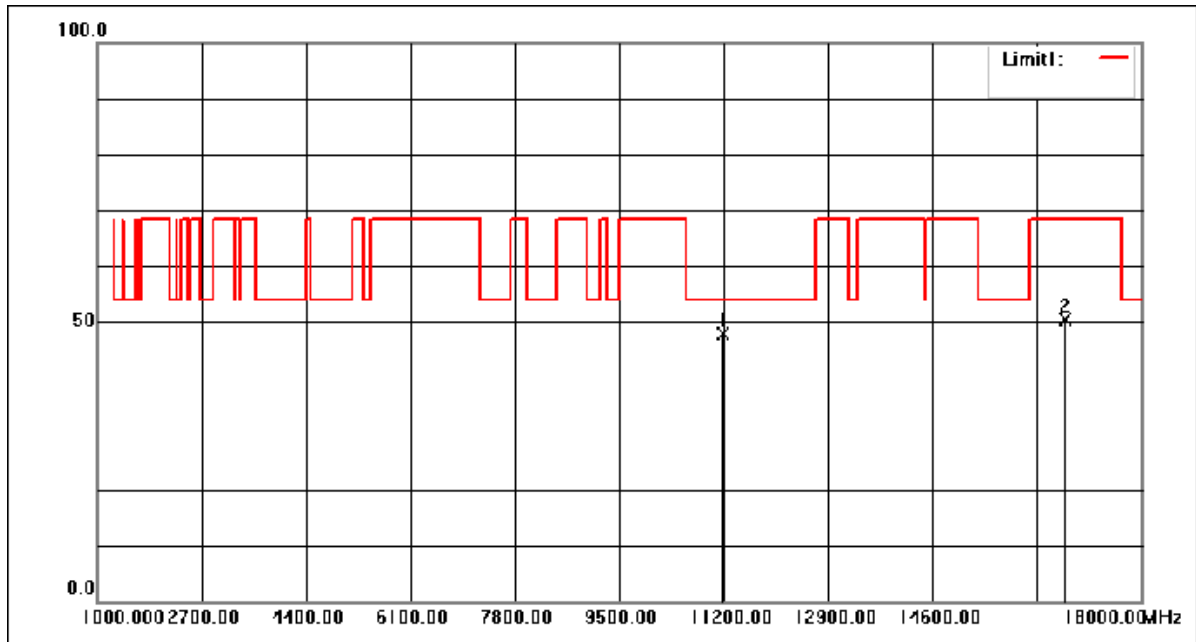
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11180.000	50.36	-1.50	48.86	54.00	-5.14	peak
2	16770.000	49.40	0.13	49.53	68.30	-18.77	peak



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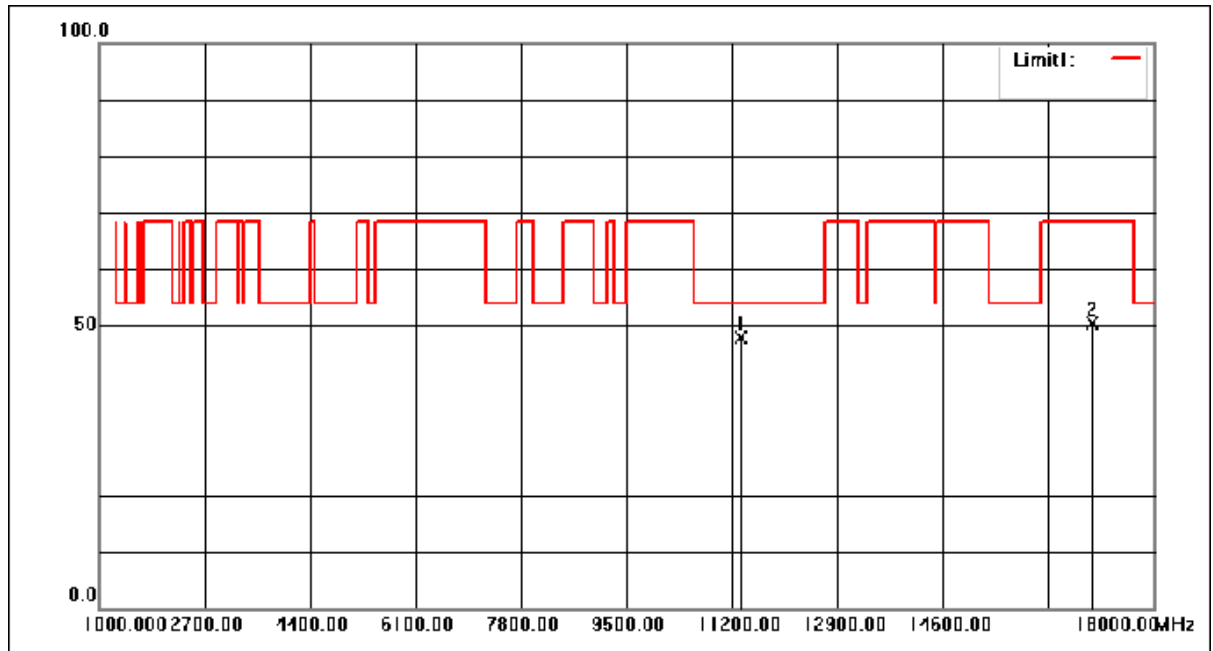
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	11180.000	49.36	-1.50	47.86	54.00	-6.14	peak
2	16770.000	50.36	0.13	50.49	68.30	-17.81	peak



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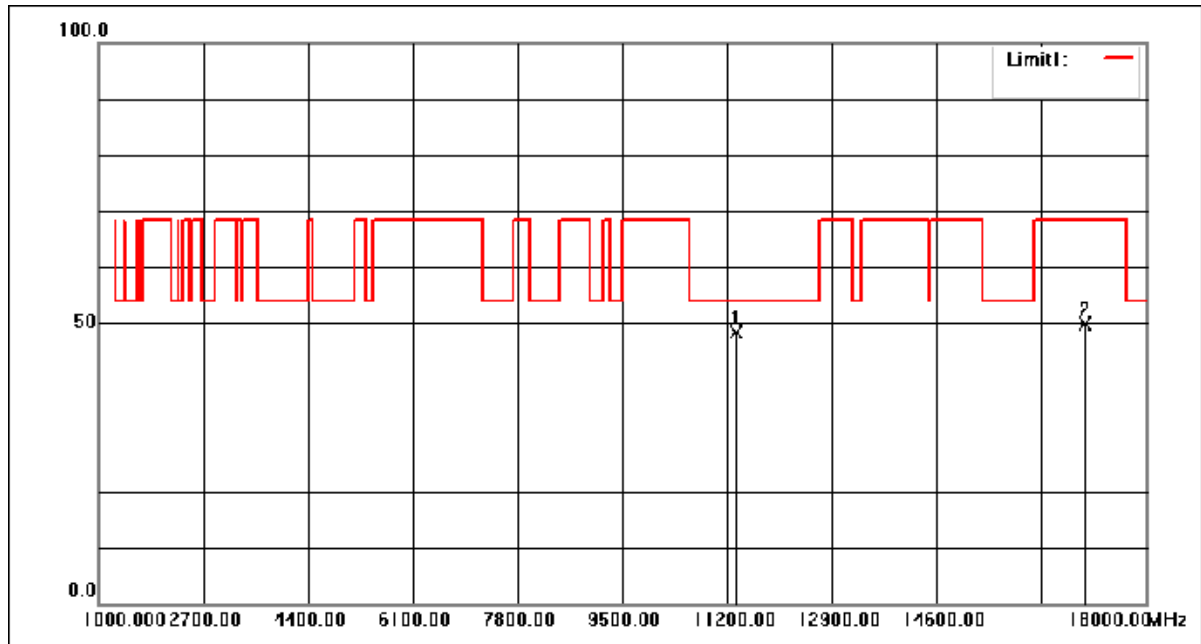
No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	1134.000	49.74	-1.88	47.86	54.00	-6.14	peak
2	1701.000	50.50	-0.01	50.49	68.30	-17.81	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11340.000	50.25	-1.88	48.37	54.00	-5.63	peak
2	17010.000	49.97	-0.01	49.96	68.30	-18.34	peak

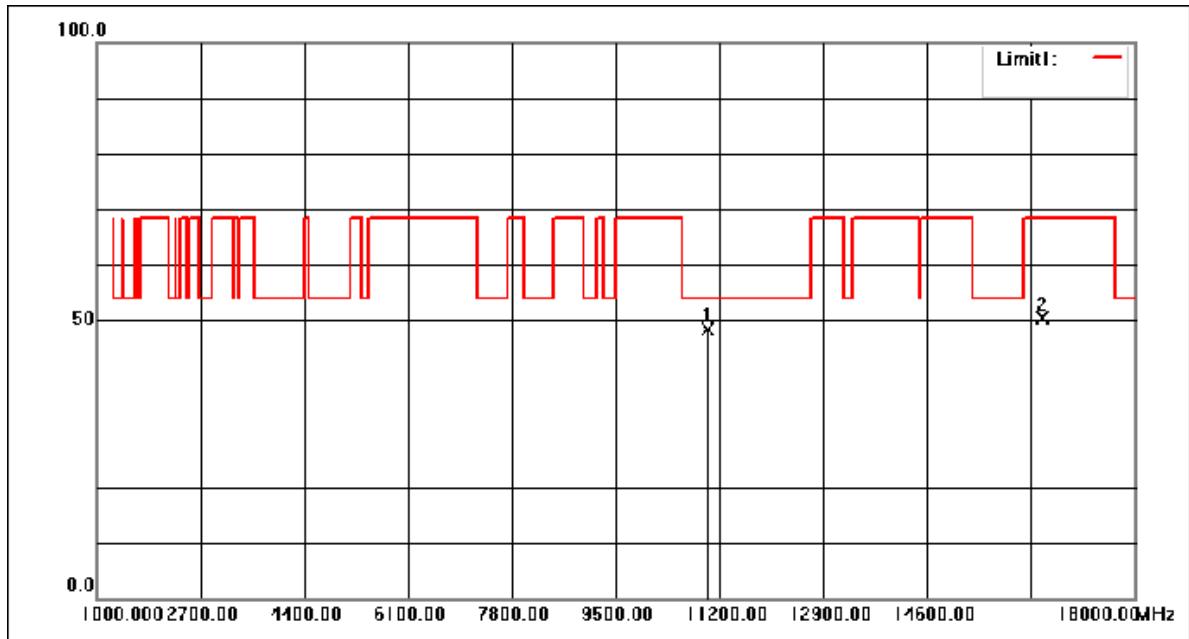


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



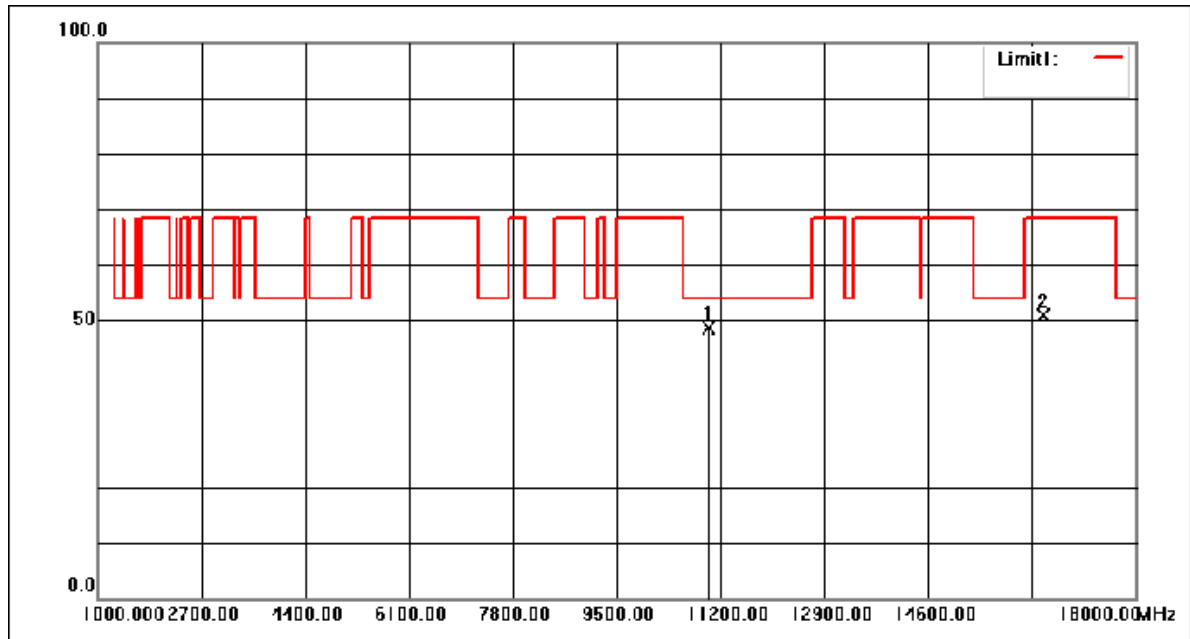
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	49.44	-1.07	48.37	54.00	-5.63	peak
2	16500.000	50.15	0.28	50.43	68.30	-17.87	peak



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



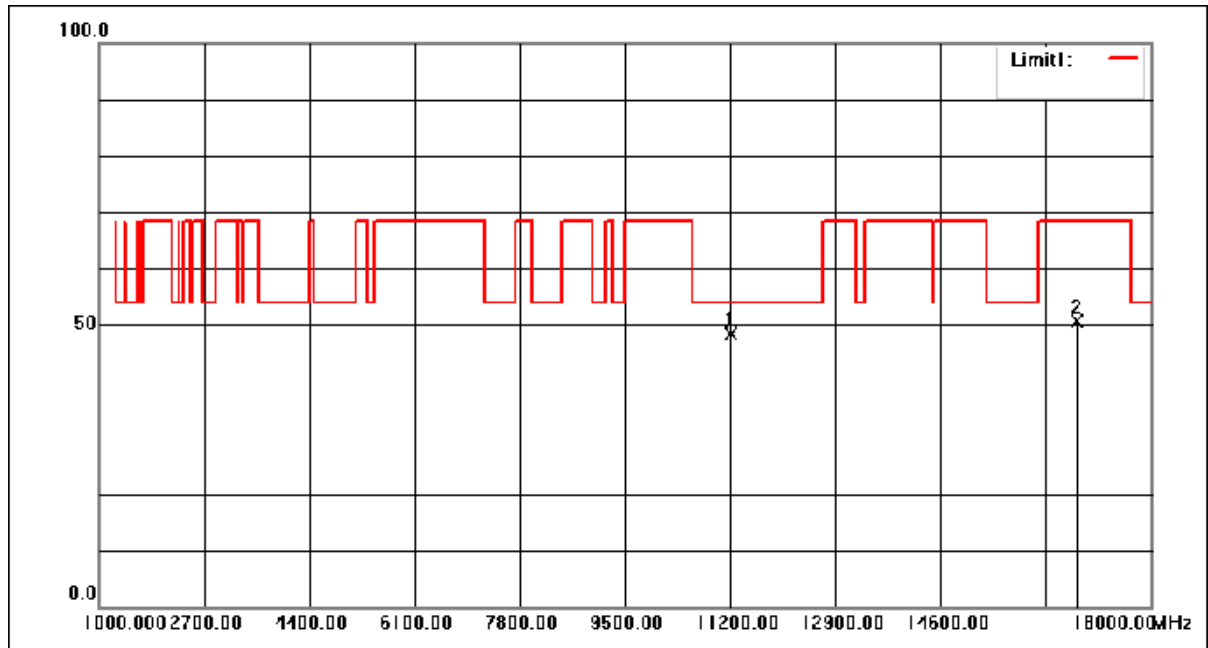
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	49.73	-1.07	48.66	54.00	-5.34	peak
2	16500.000	50.58	0.28	50.86	68.30	-17.44	peak



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



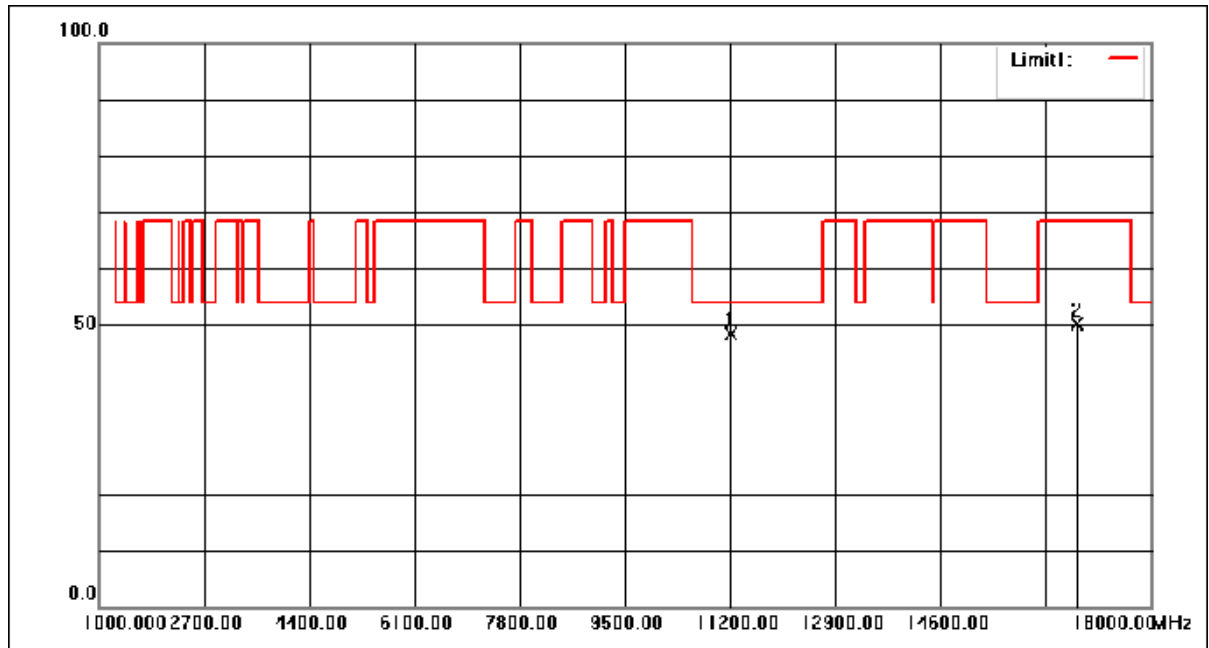
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11200.000	49.88	-1.55	48.33	54.00	-5.67	peak
2	16800.000	50.62	0.11	50.73	68.30	-17.57	peak



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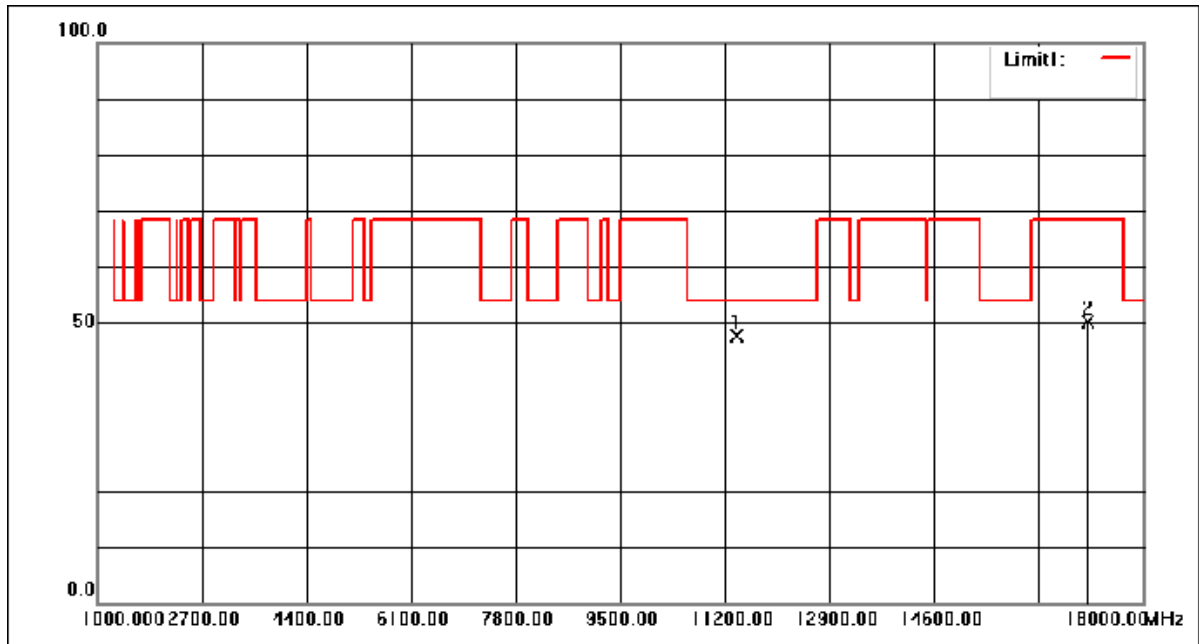
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11200.000	49.92	-1.55	48.37	54.00	-5.63	peak
2	16800.000	50.11	0.11	50.22	68.30	-18.08	peak



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



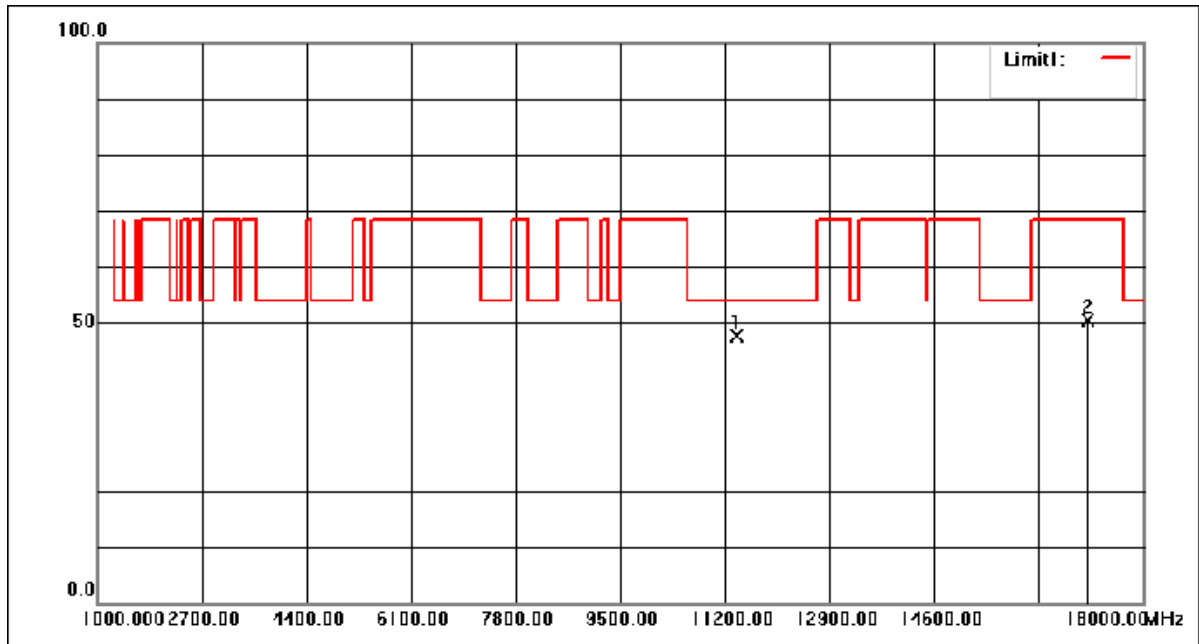
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	49.70	-2.02	47.68	54.00	-6.32	peak
2	17100.000	50.27	-0.08	50.19	68.30	-18.11	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	49.70	-2.02	47.68	54.00	-6.32	peak
2	17100.000	50.51	-0.08	50.43	68.30	-17.87	peak

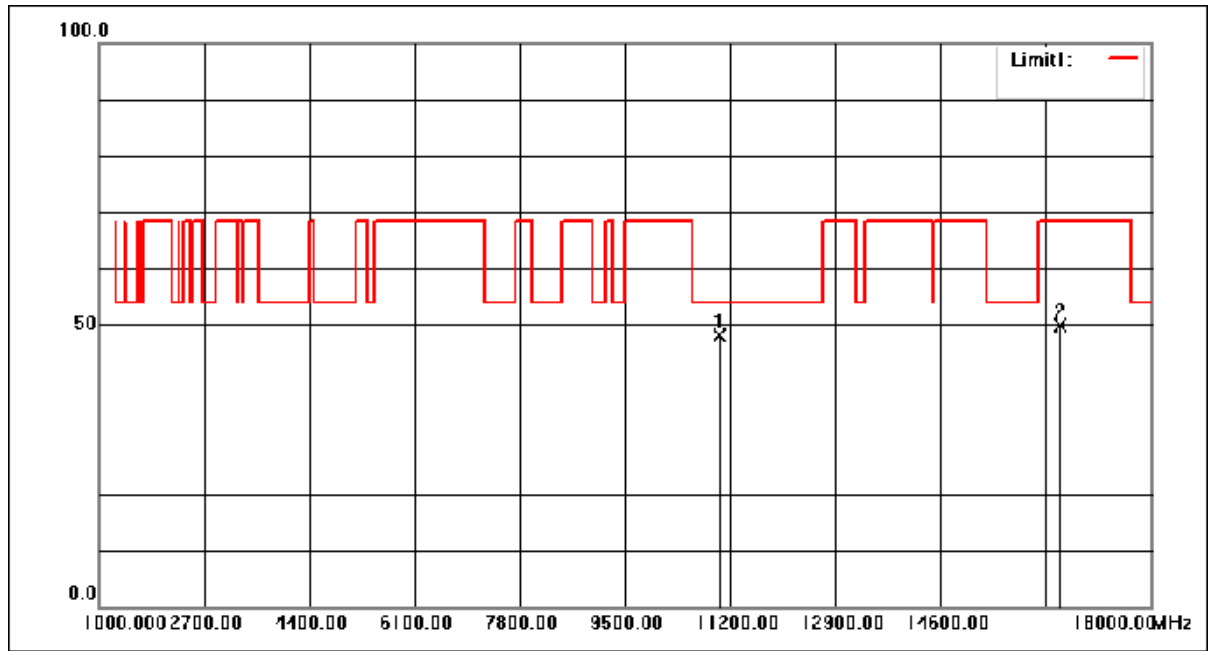


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



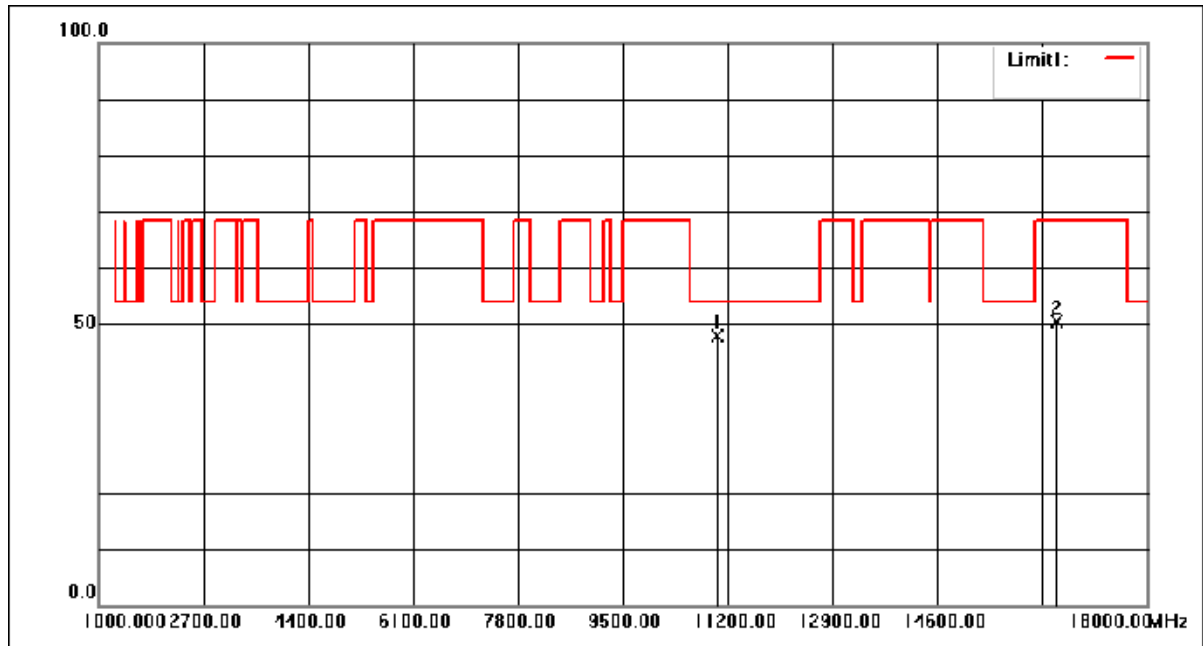
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11020.000	49.34	-1.12	48.22	54.00	-5.78	peak
2	16530.000	49.63	0.26	49.89	68.30	-18.41	peak



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



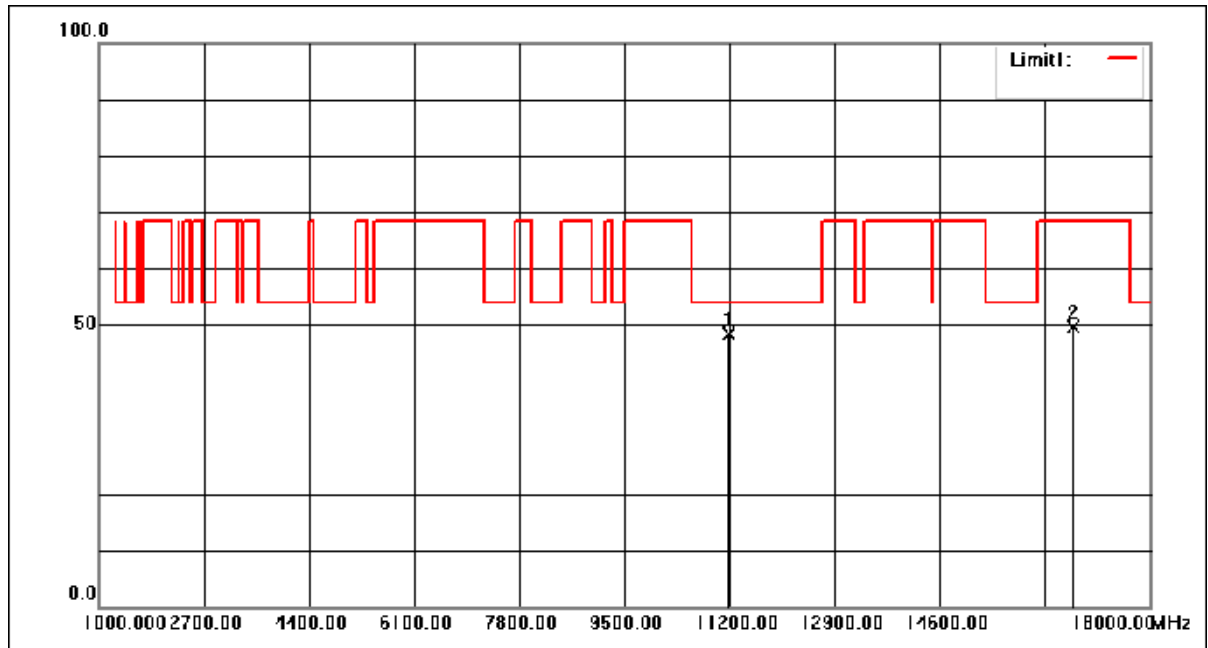
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11020.000	49.01	-1.12	47.89	54.00	-6.11	peak
2	16530.000	50.01	0.26	50.27	68.30	-18.03	peak



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



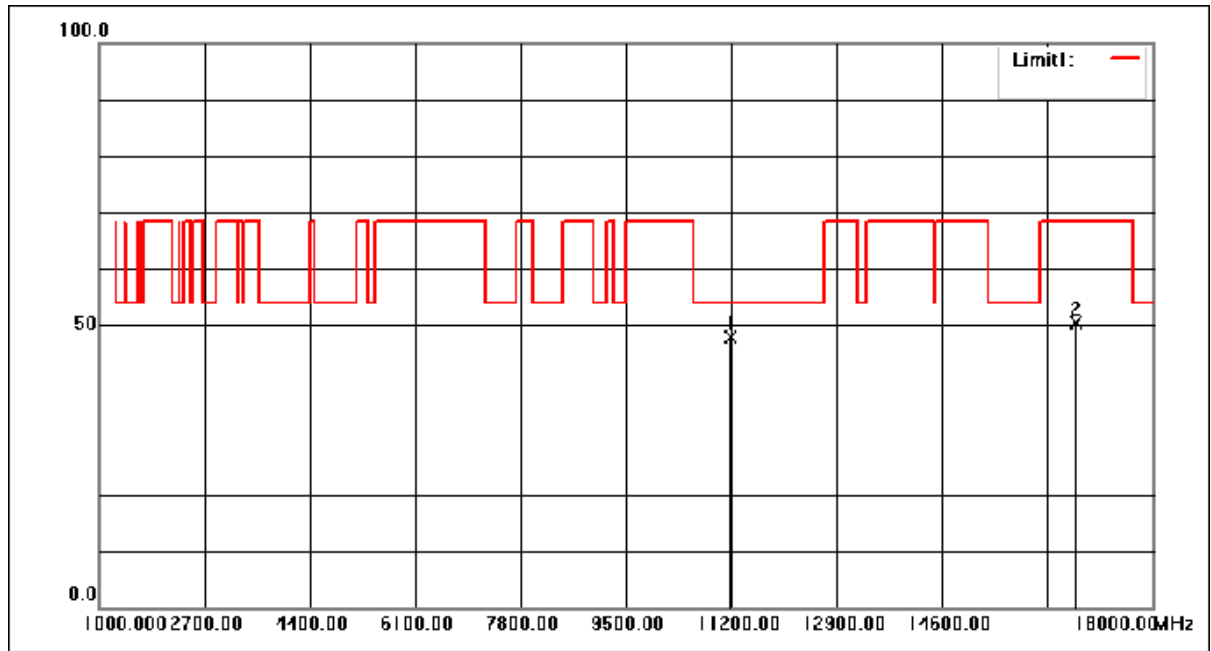
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11180.000	49.87	-1.50	48.37	54.00	-5.63	peak
2	16770.000	49.55	0.13	49.68	68.30	-18.62	peak



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



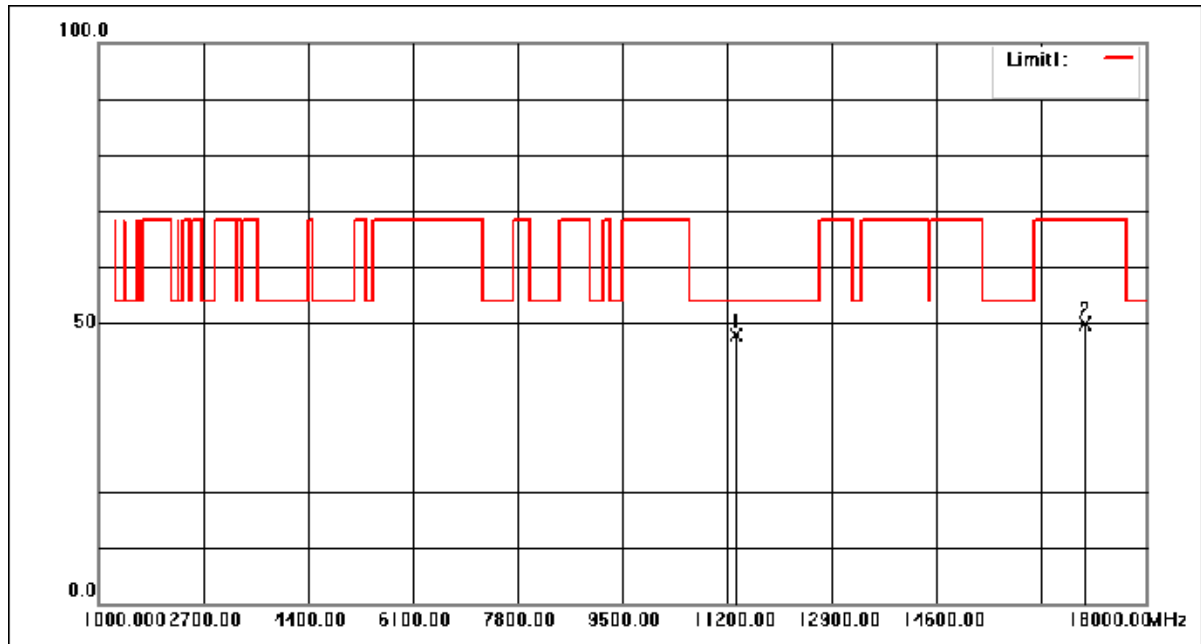
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11180.000	49.48	-1.50	47.98	54.00	-6.02	peak
2	16770.000	50.31	0.13	50.44	68.30	-17.86	peak



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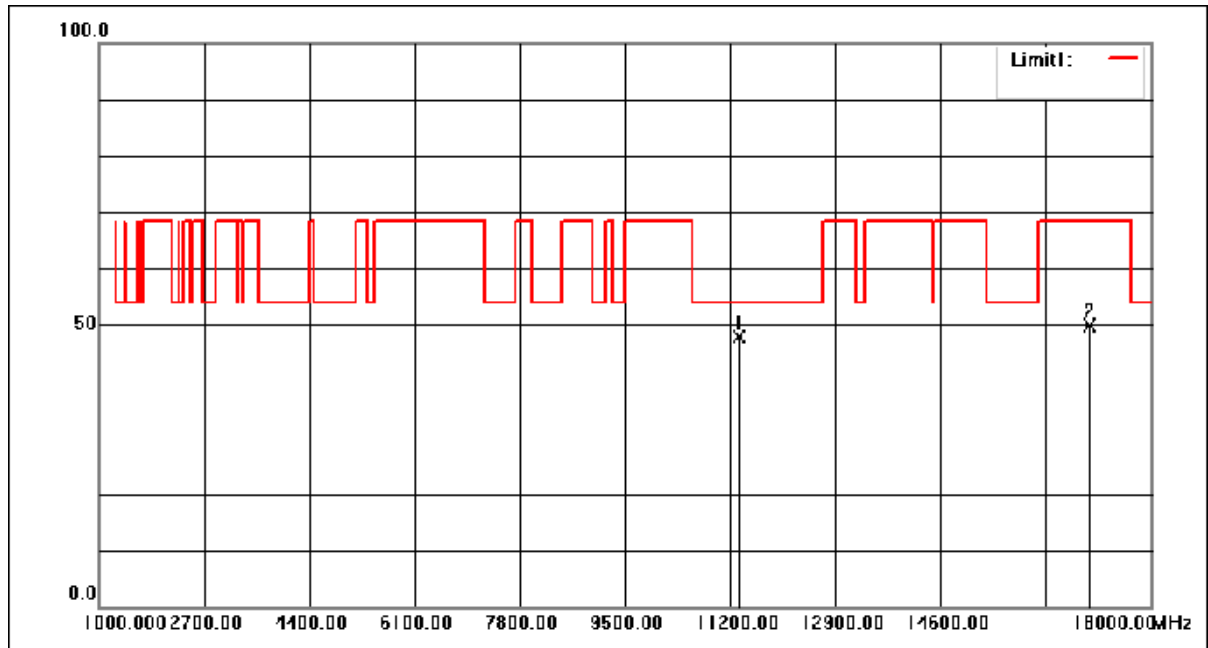
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	11340.000	49.84	-1.88	47.96	54.00	-6.04	peak
2	17010.000	49.92	-0.01	49.91	68.30	-18.39	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11340.000	49.84	-1.88	47.96	54.00	-6.04	peak
2	17010.000	49.98	-0.01	49.97	68.30	-18.33	peak

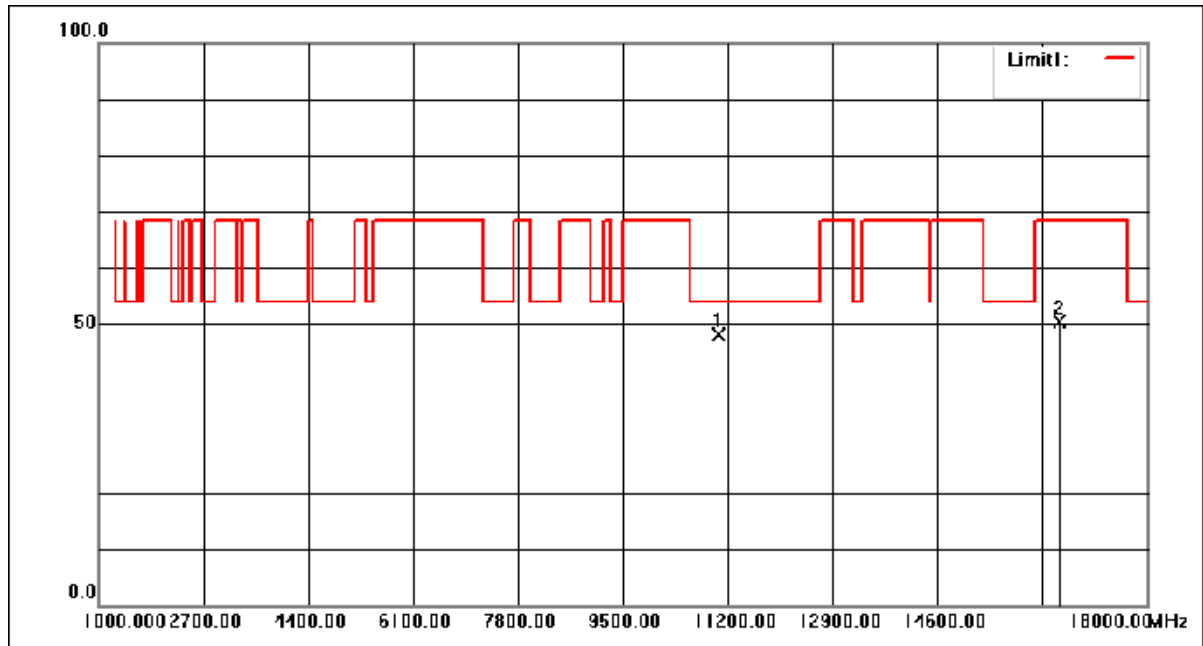


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



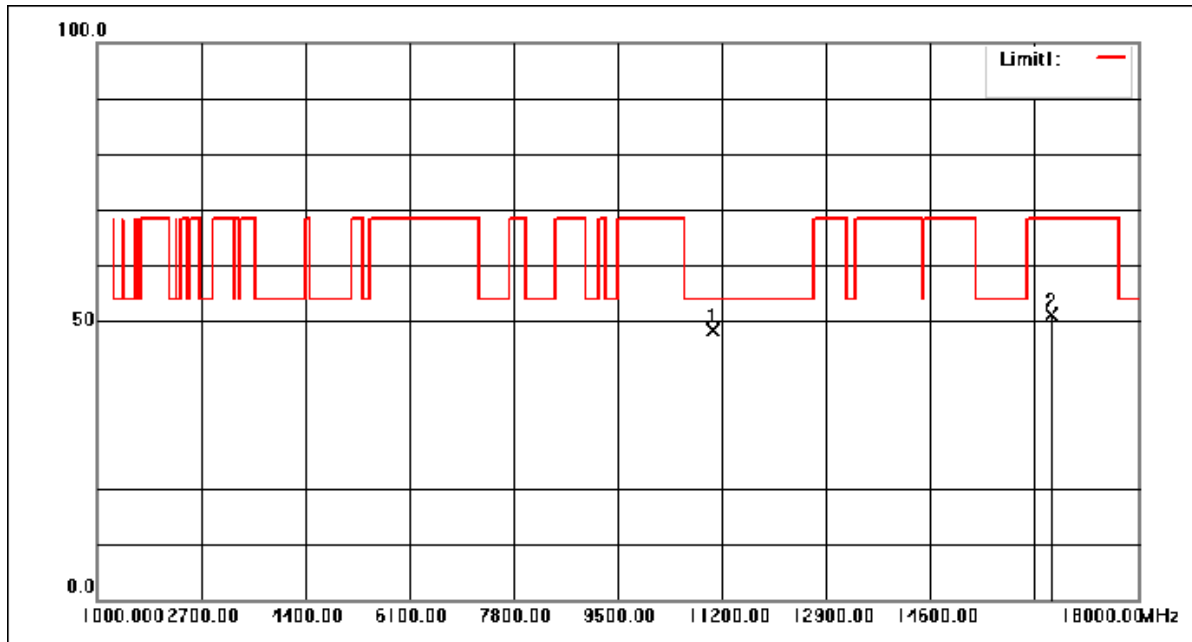
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11060.000	49.22	-1.21	48.01	54.00	-5.99	peak
2	16590.000	50.20	0.23	50.43	68.30	-17.87	peak



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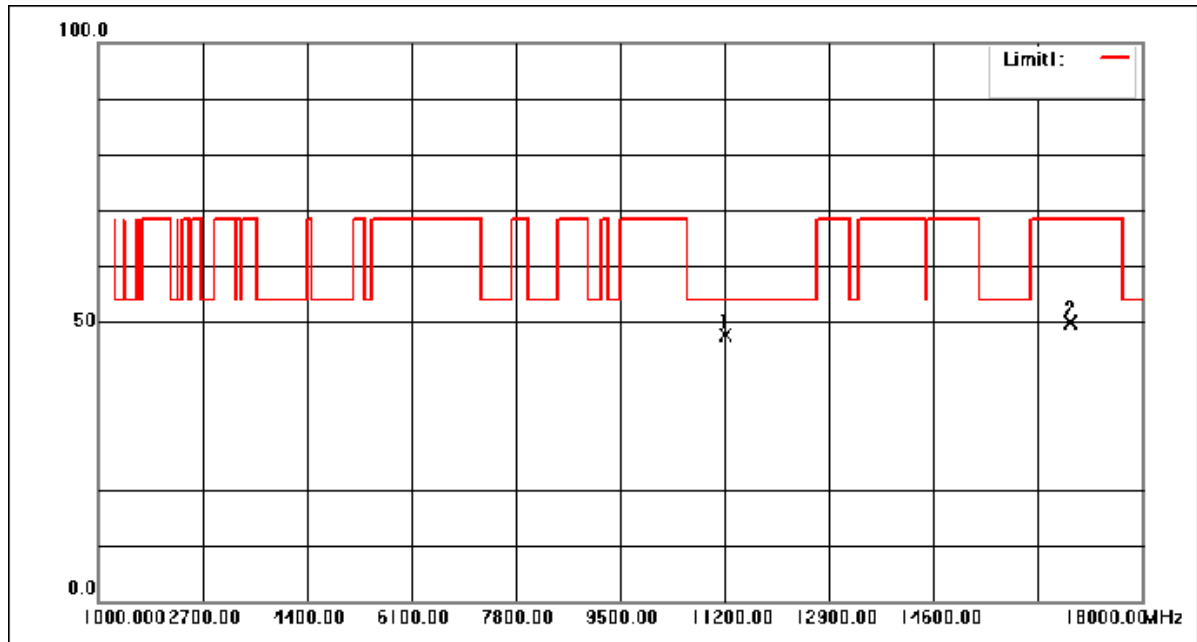
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	11060.000	49.58	-1.21	48.37	54.00	-5.63	peak
2	16590.000	50.80	0.23	51.03	68.30	-17.27	peak



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



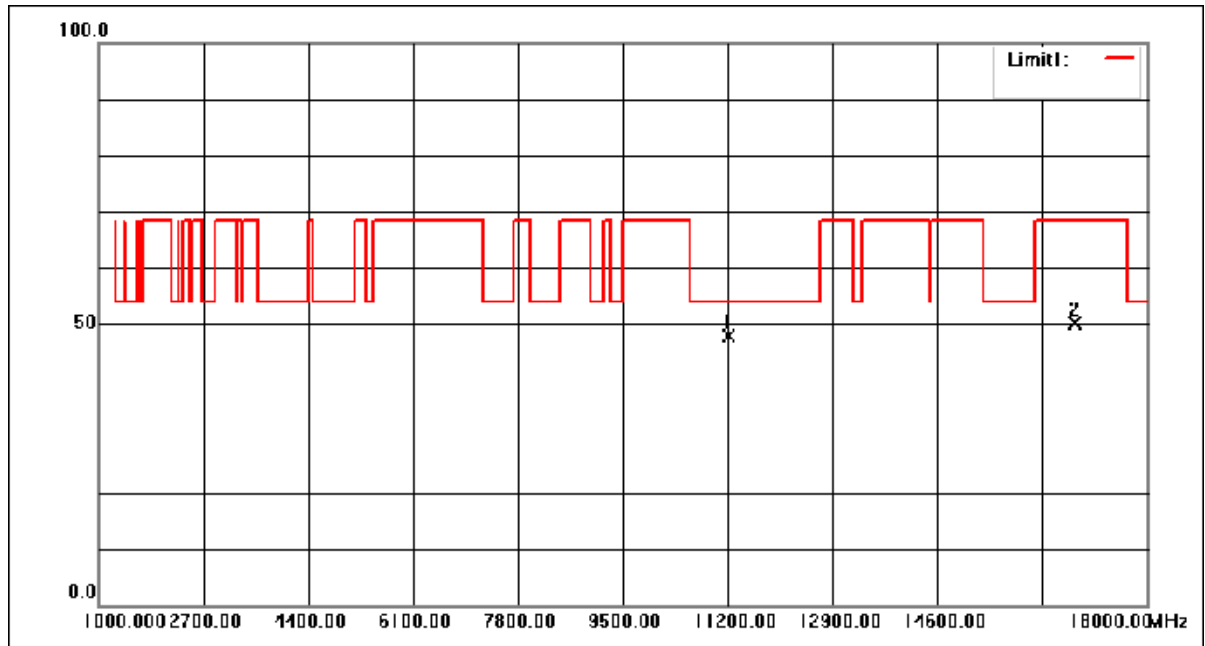
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	11220.000	49.27	-1.59	47.68	54.00	-6.32	peak
2	16830.000	49.88	0.10	49.98	68.30	-18.32	peak



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



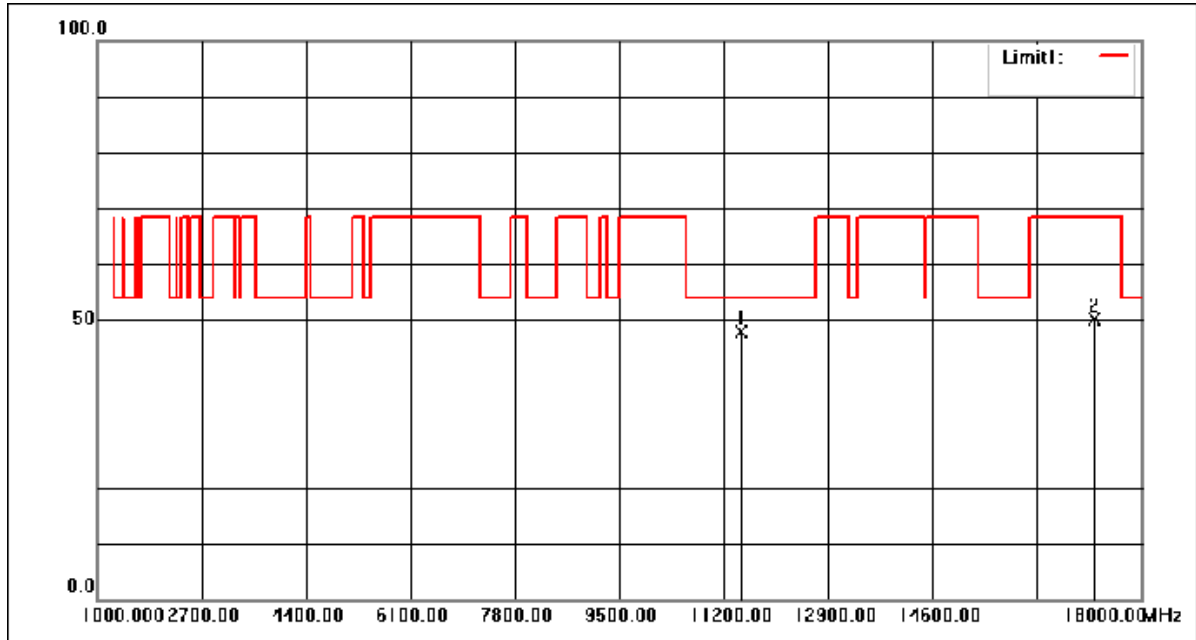
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11220.000	49.55	-1.59	47.96	54.00	-6.04	peak
2	16830.000	50.07	0.10	50.17	68.30	-18.13	peak



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



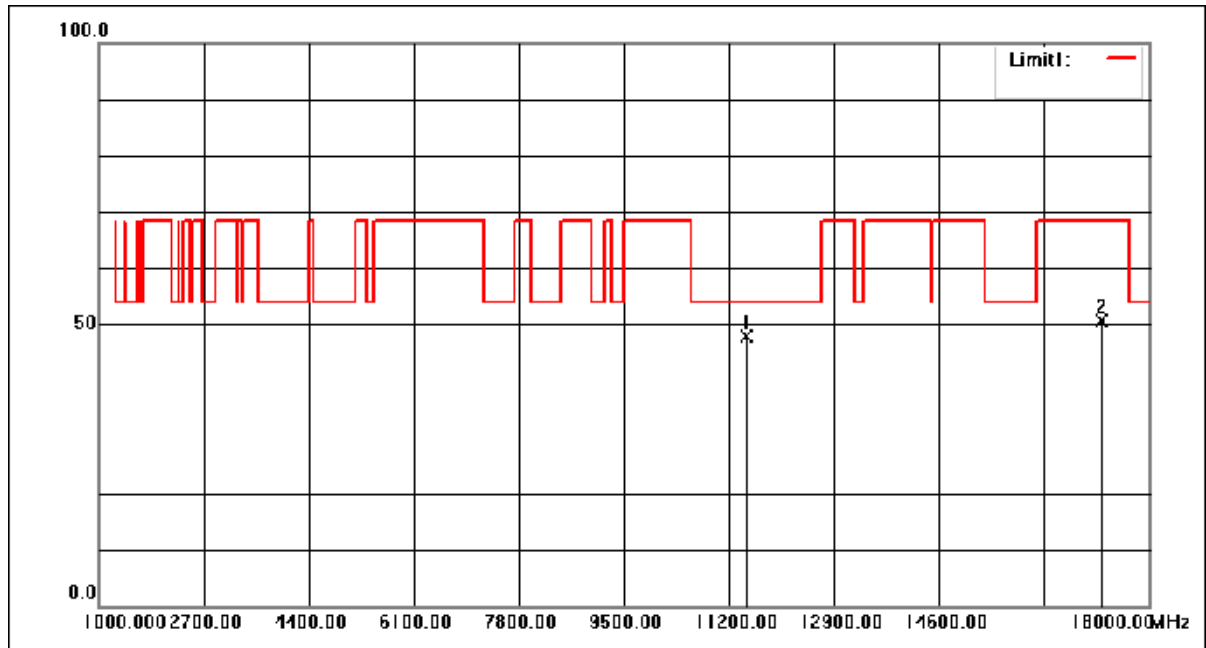
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	11490.000	50.16	-2.24	47.92	54.00	-6.08	peak
2	17235.000	50.35	-0.19	50.16	68.30	-18.14	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11490.000	50.03	-2.24	47.79	54.00	-6.21	peak
2	17235.000	50.81	-0.19	50.62	68.30	-17.68	peak

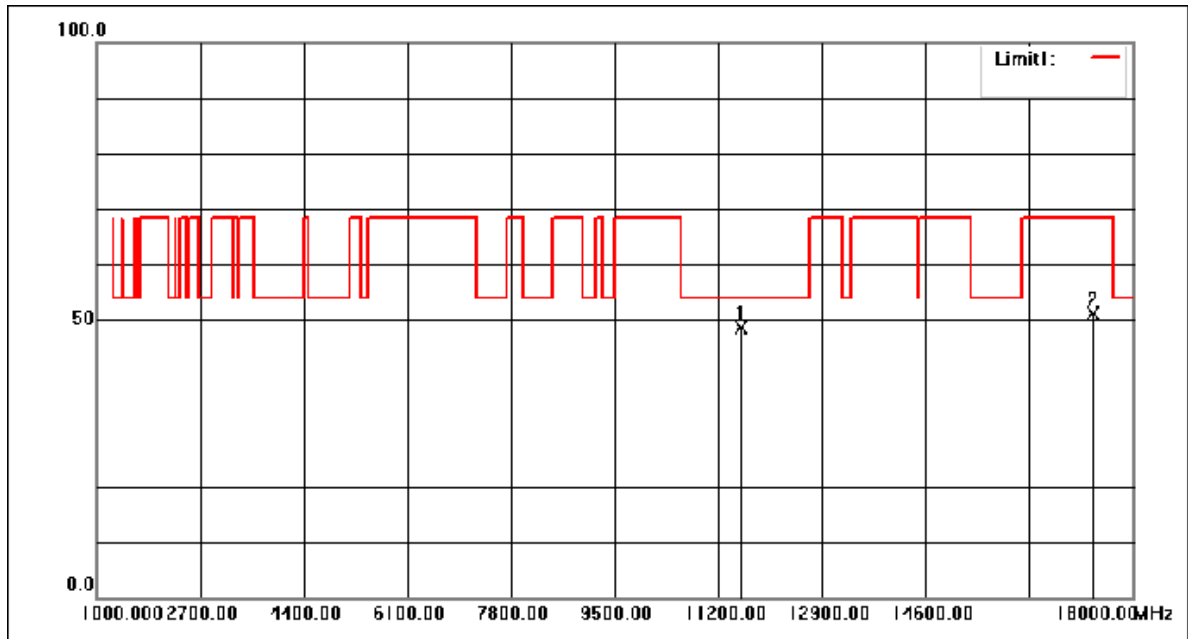


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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



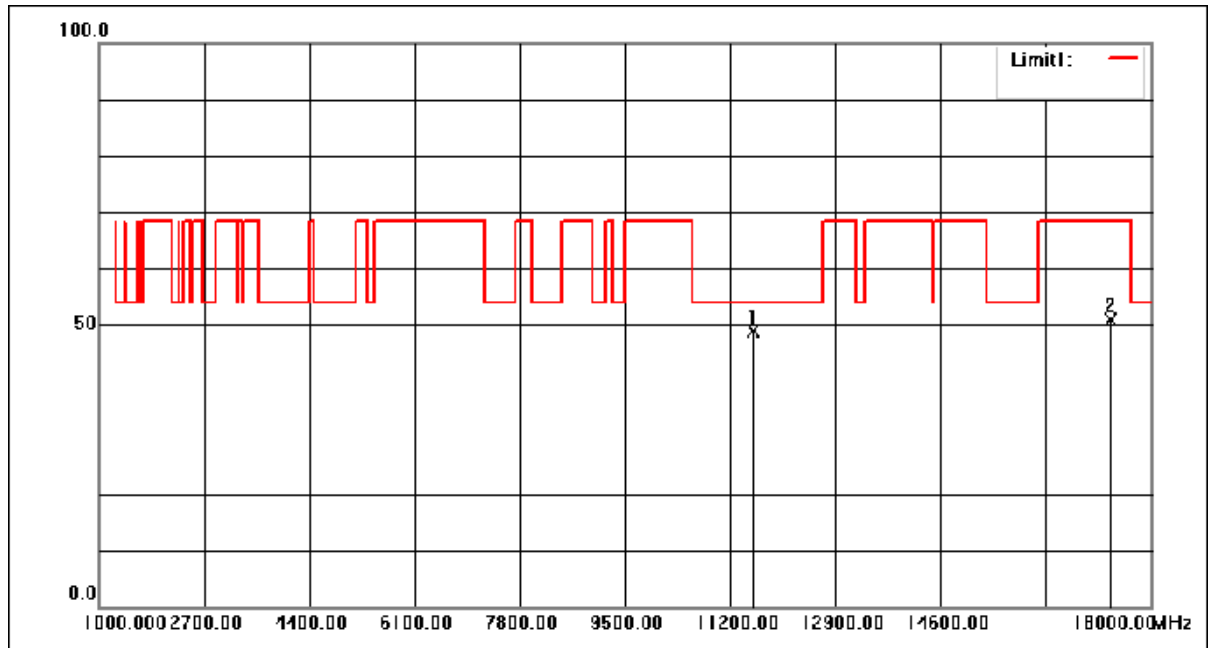
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	51.05	-2.33	48.72	54.00	-5.28	peak
2	17355.000	51.31	-0.29	51.02	68.30	-17.28	peak



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



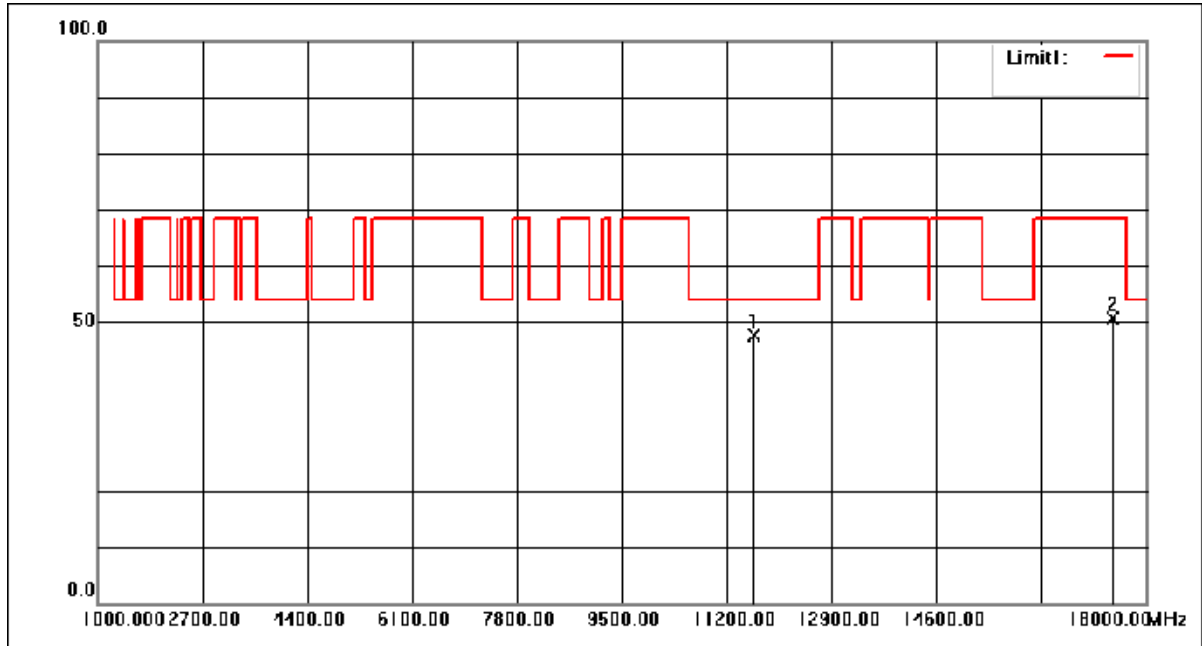
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	51.15	-2.33	48.82	54.00	-5.18	peak
2	17355.000	51.06	-0.29	50.77	68.30	-17.53	peak



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



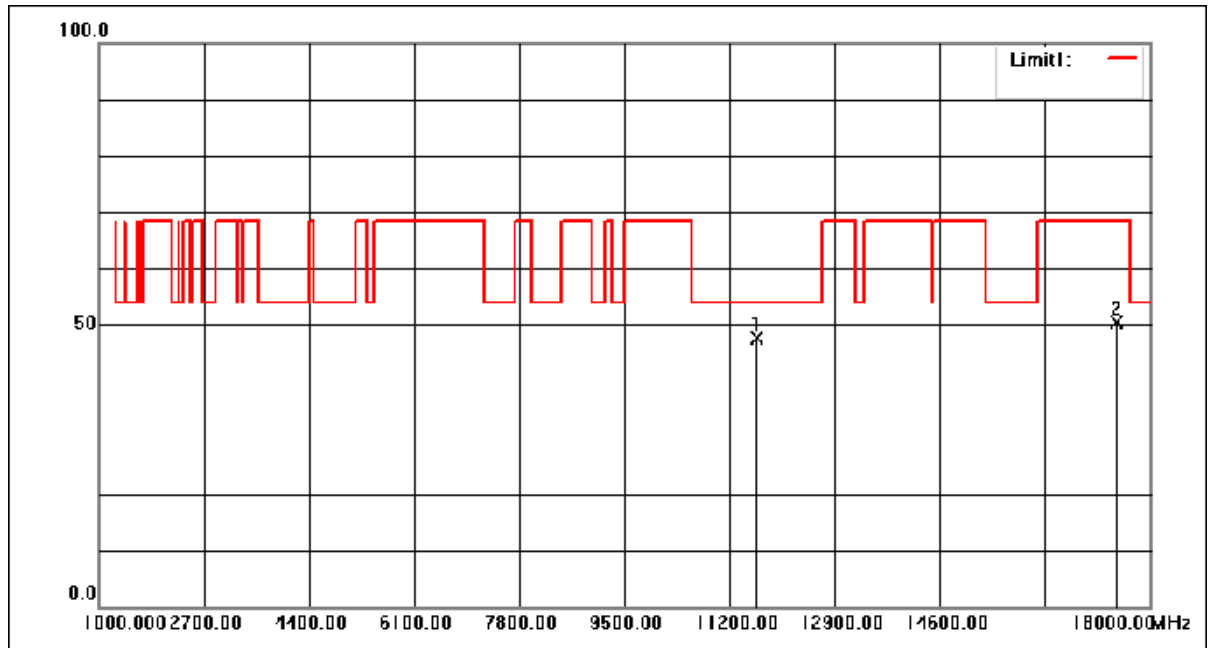
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	50.13	-2.40	47.73	54.00	-6.27	peak
2	17475.000	51.12	-0.39	50.73	68.30	-17.57	peak



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



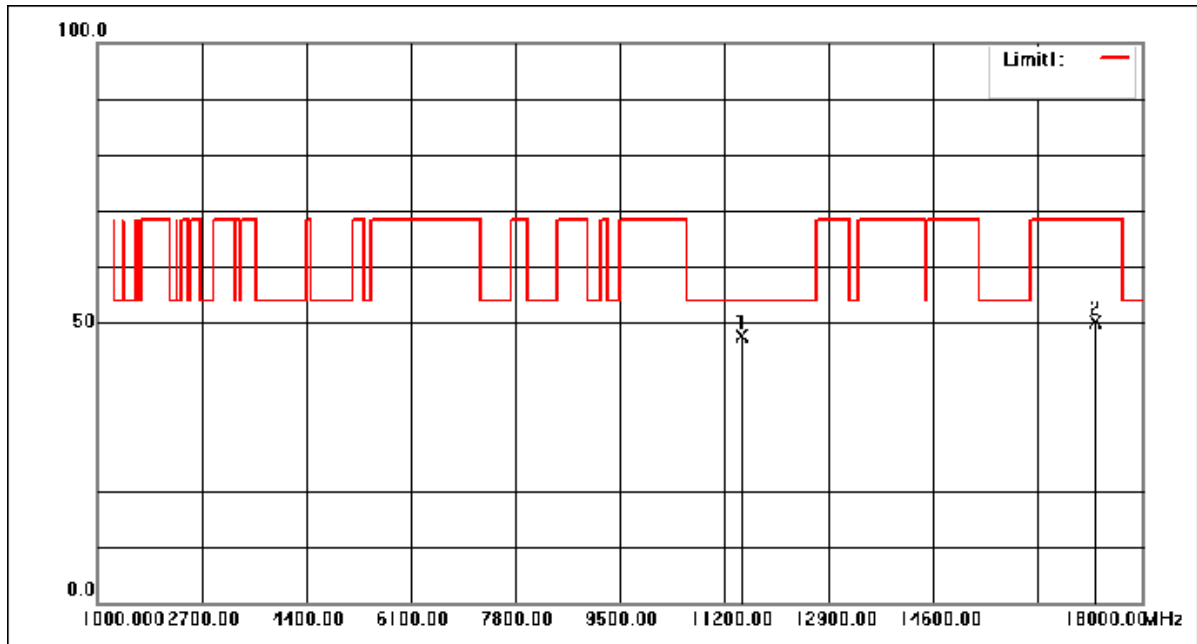
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	50.08	-2.40	47.68	54.00	-6.32	peak
2	17475.000	50.83	-0.39	50.44	68.30	-17.86	peak



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



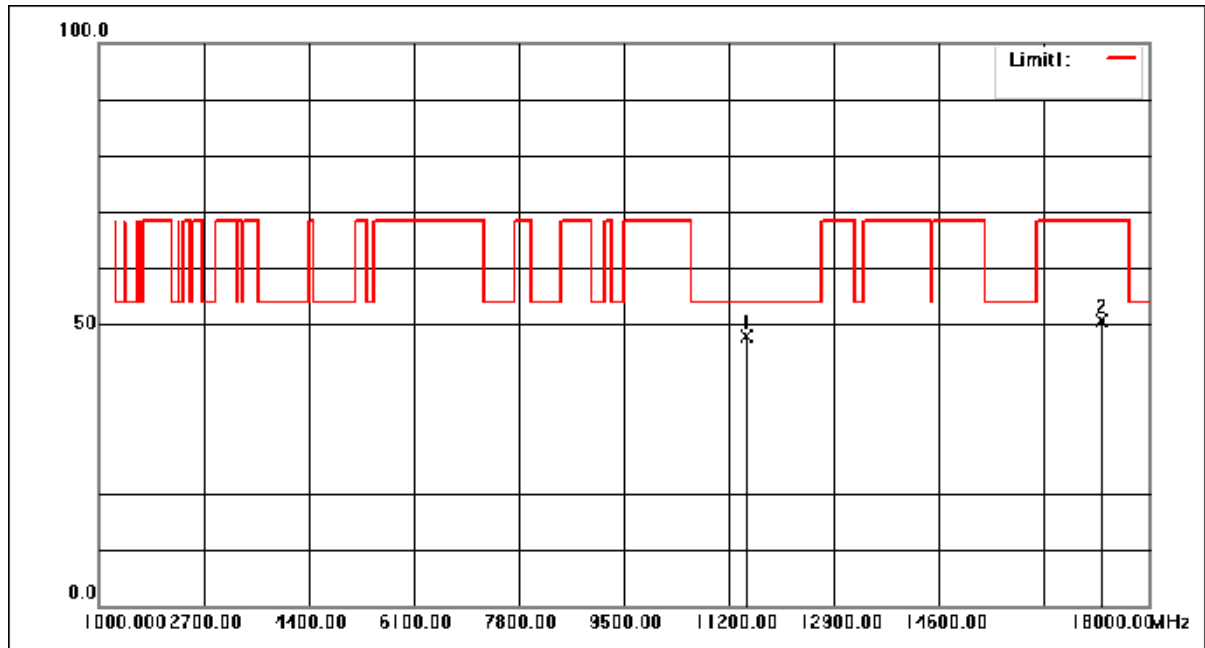
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11490.000	49.93	-2.24	47.69	54.00	-6.31	peak
2	17235.000	50.26	-0.19	50.07	68.30	-18.23	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11490.000	50.20	-2.24	47.96	54.00	-6.04	peak
2	17235.000	50.86	-0.19	50.67	68.30	-17.63	peak

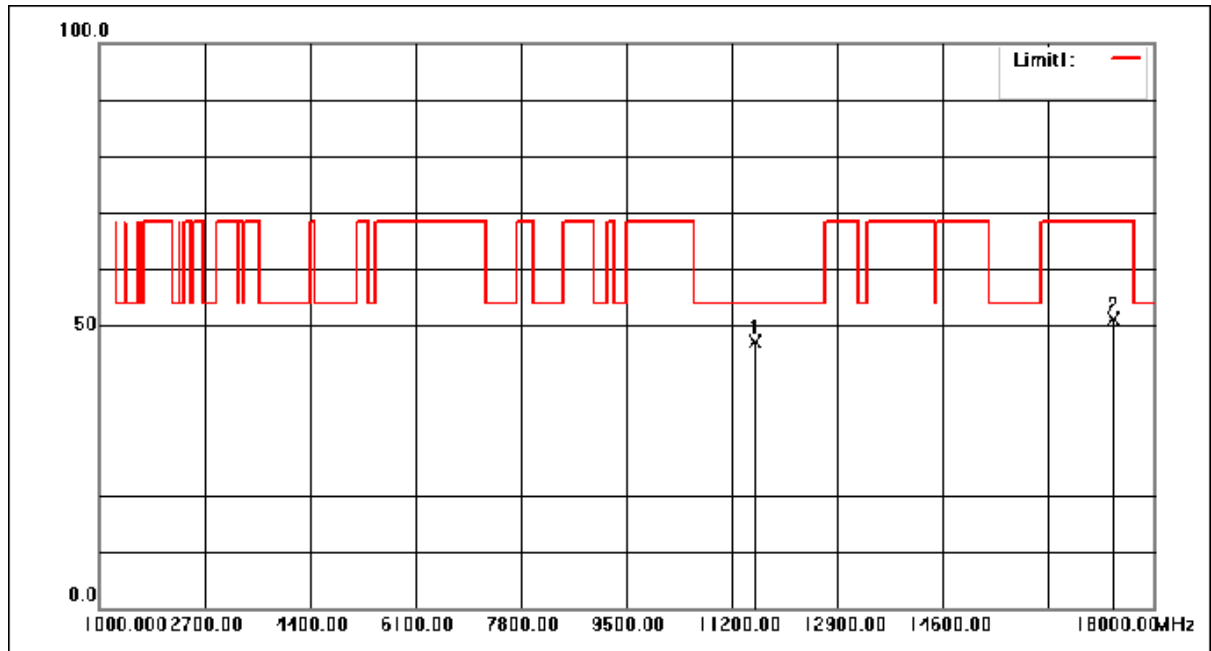


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



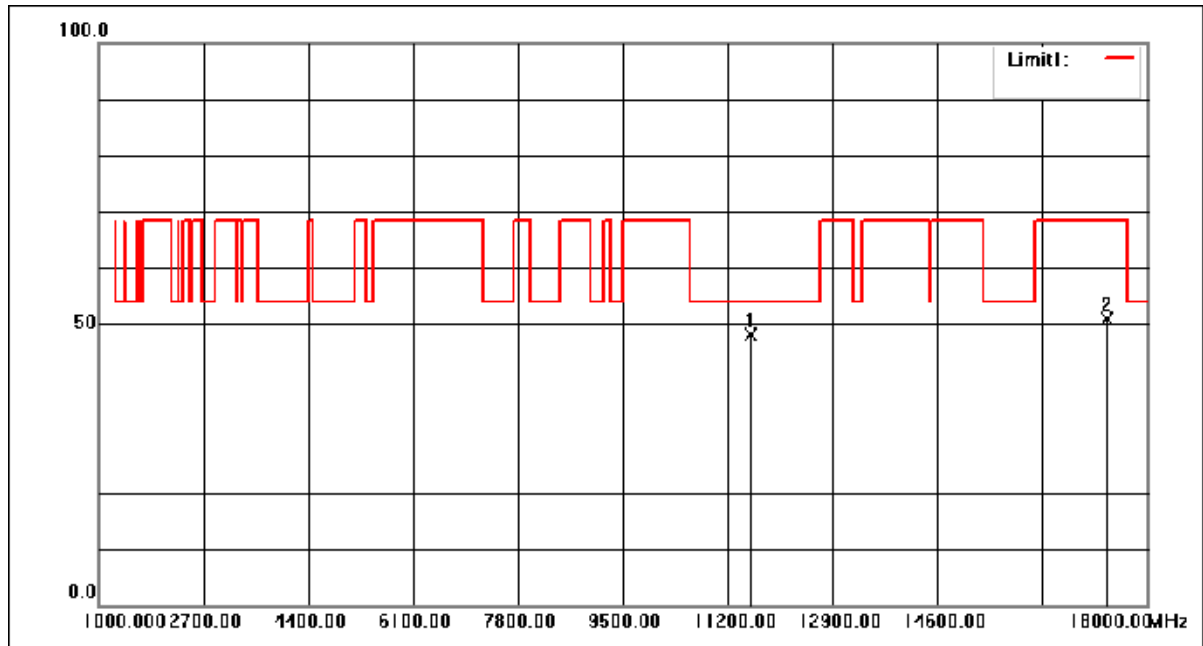
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	49.38	-2.33	47.05	54.00	-6.95	peak
2	17355.000	51.32	-0.29	51.03	68.30	-17.27	peak



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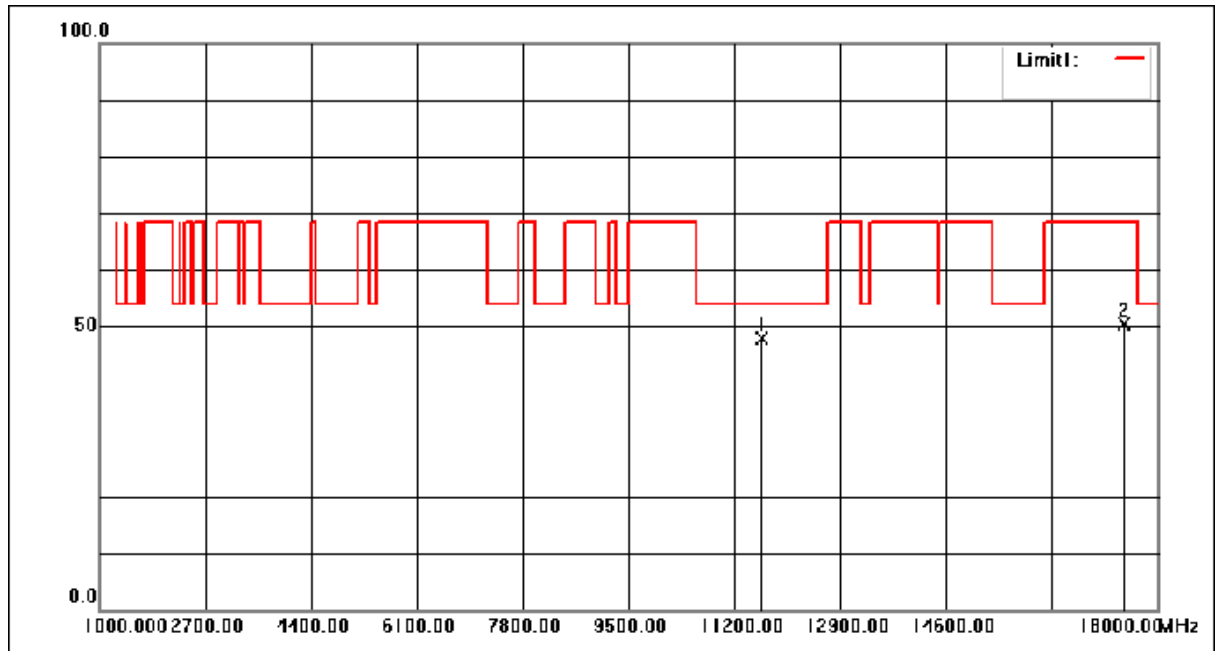
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	50.40	-2.33	48.07	54.00	-5.93	peak
2	17355.000	51.23	-0.29	50.94	68.30	-17.36	peak



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



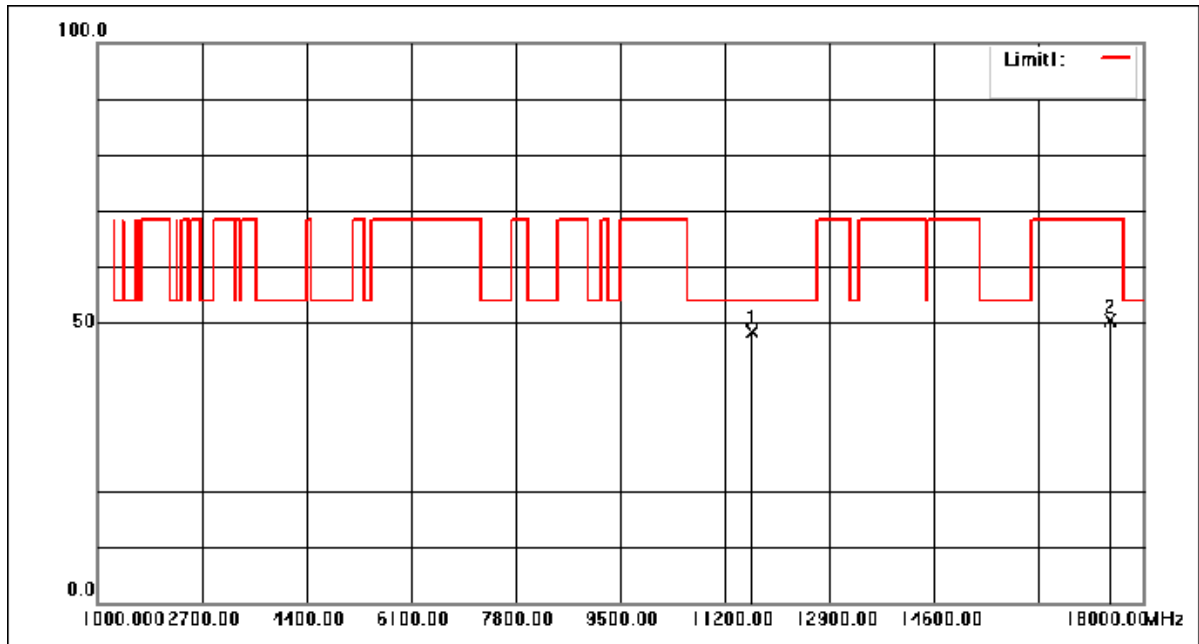
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	50.36	-2.40	47.96	54.00	-6.04	peak
2	17475.000	50.88	-0.39	50.49	68.30	-17.81	peak



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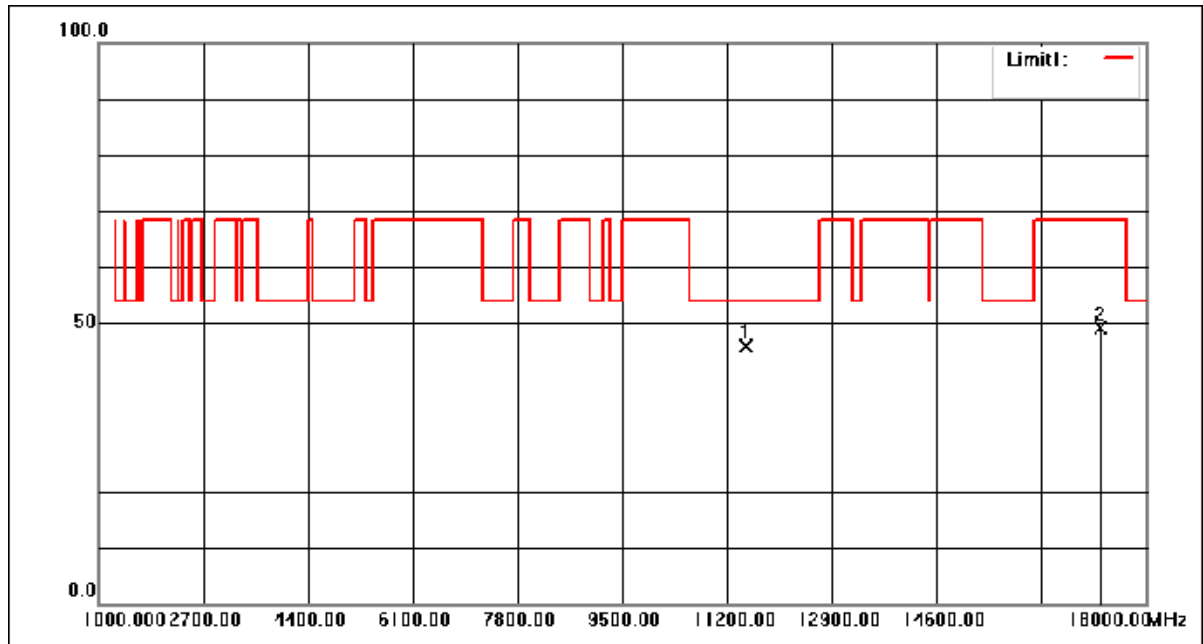
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	50.77	-2.40	48.37	54.00	-5.63	peak
2	17475.000	50.73	-0.39	50.34	68.30	-17.96	peak



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



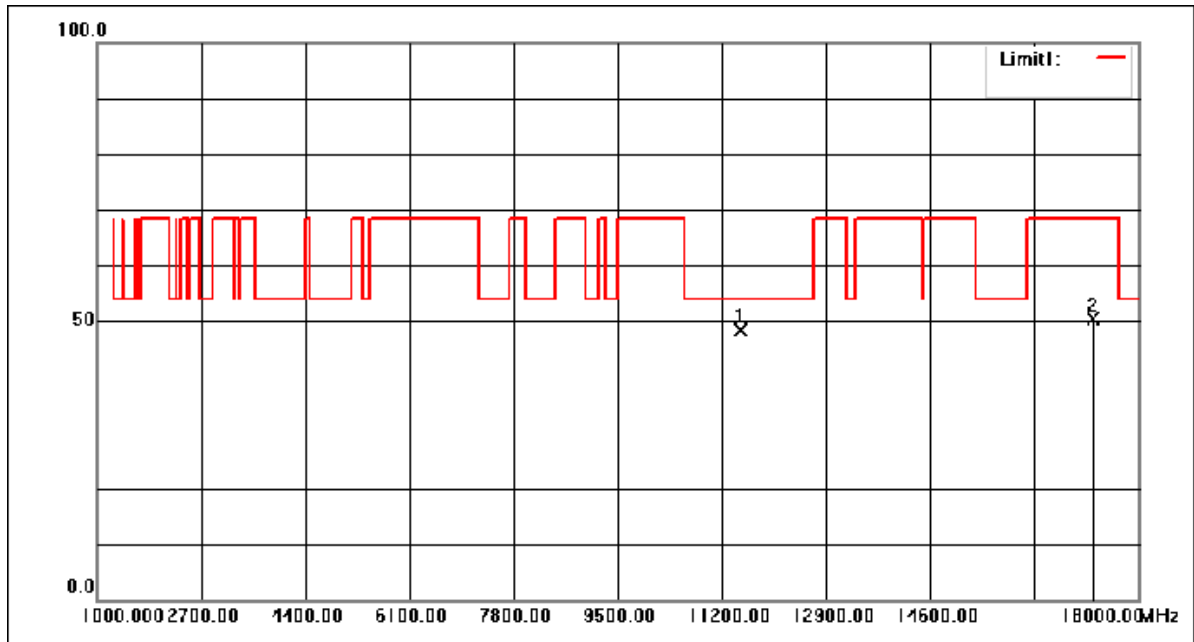
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11510.000	48.19	-2.27	45.92	54.00	-8.08	peak
2	17265.000	49.36	-0.22	49.14	68.30	-19.16	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	11510.000	50.64	-2.27	48.37	54.00	-5.63	peak
2	17265.000	50.71	-0.22	50.49	68.30	-17.81	peak

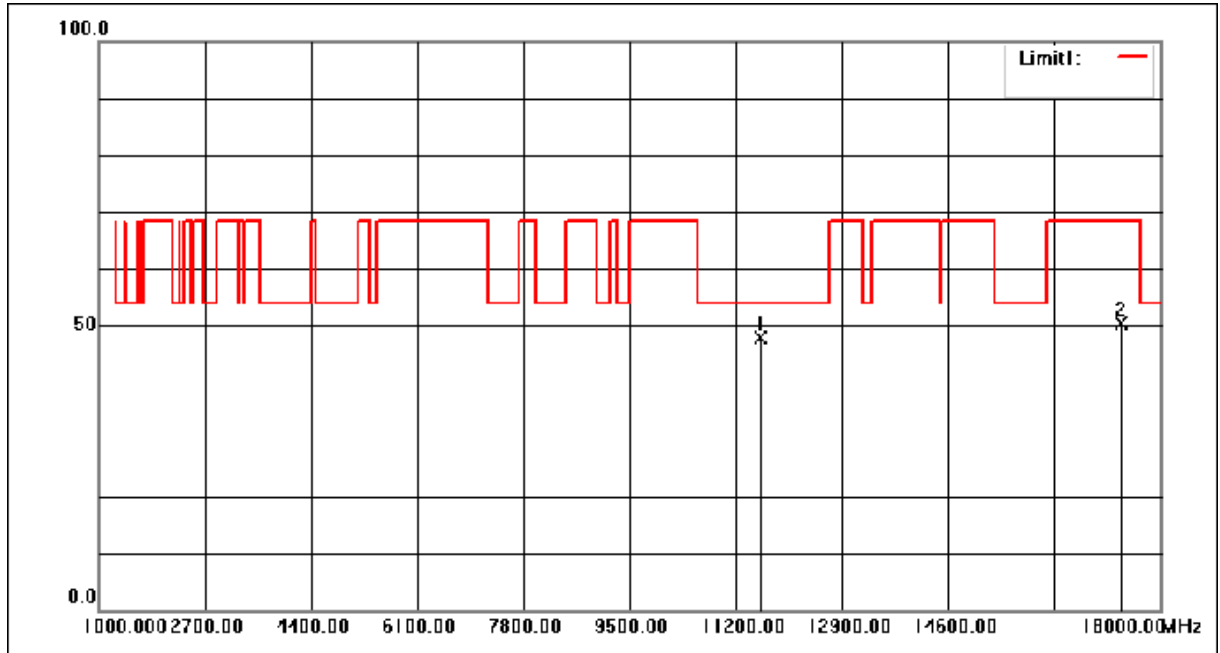


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



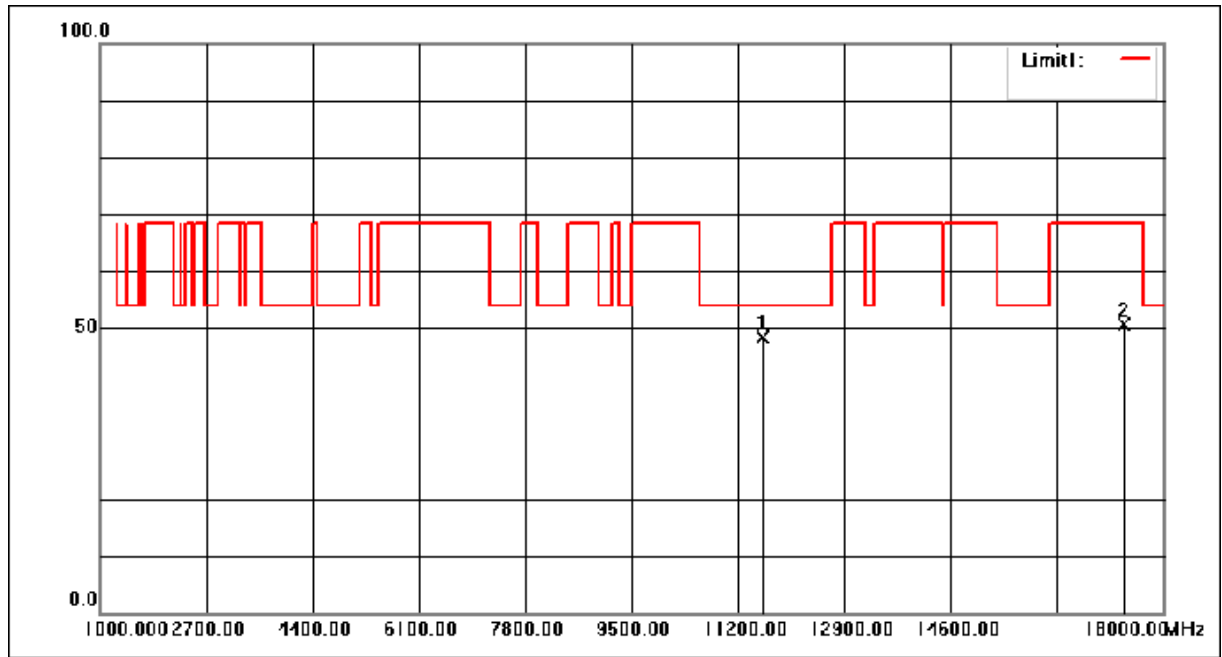
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11590.000	50.30	-2.34	47.96	54.00	-6.04	peak
2	17385.000	50.80	-0.32	50.48	68.30	-17.82	peak



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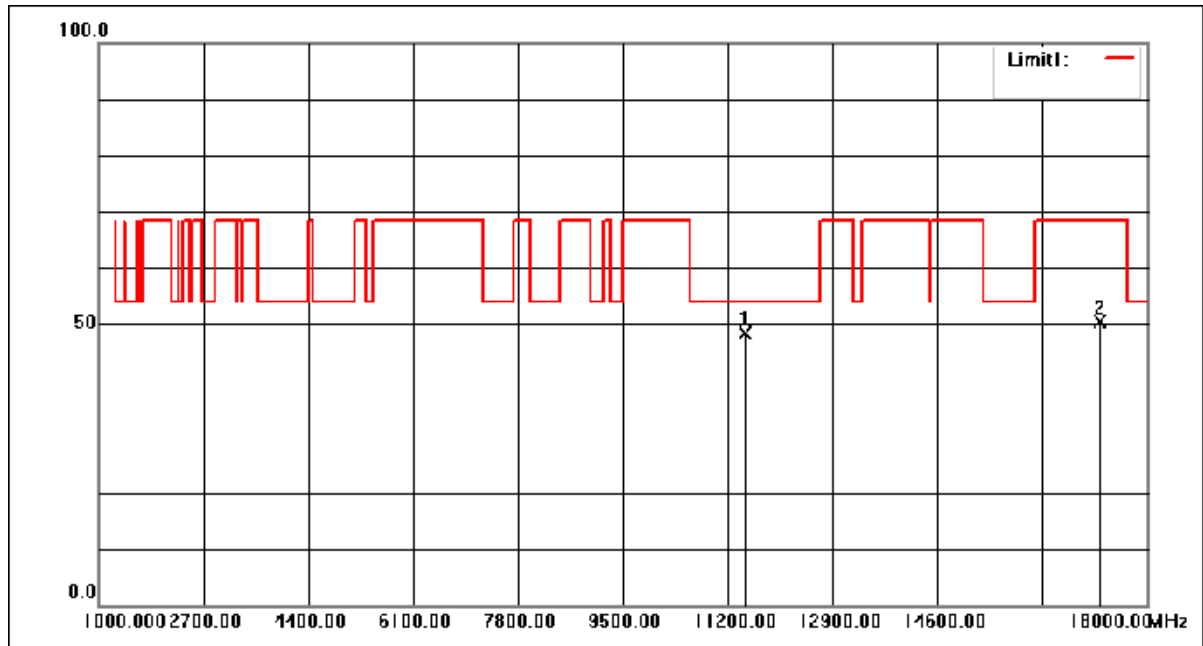
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11590.000	50.67	-2.34	48.33	54.00	-5.67	peak
2	17385.000	50.95	-0.32	50.63	68.30	-17.67	peak



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



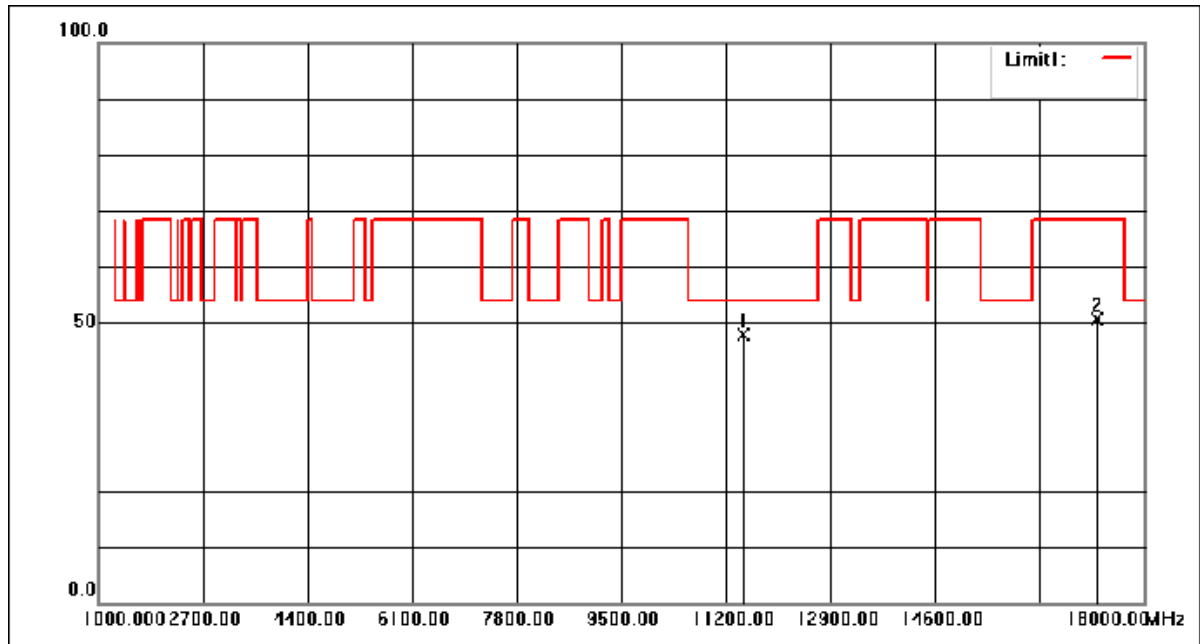
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11490.000	50.61	-2.24	48.37	54.00	-5.63	peak
2	17235.000	50.46	-0.19	50.27	68.30	-18.03	peak



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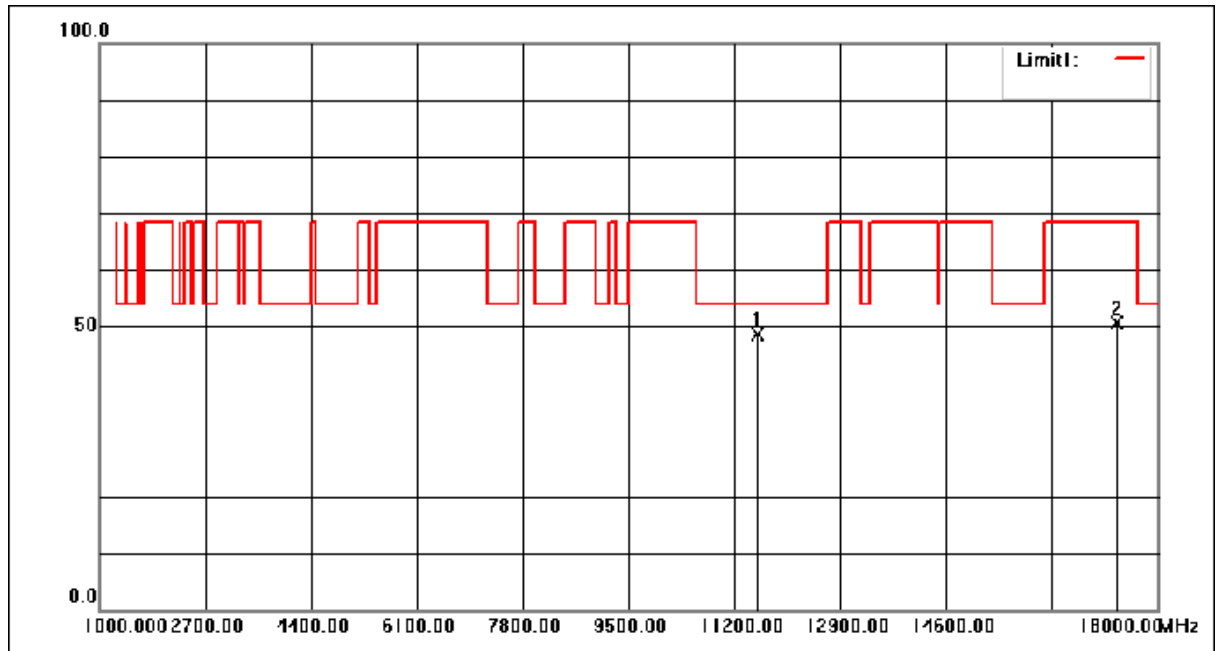
No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	11490.000	50.20	-2.24	47.96	54.00	-6.04	peak
2	17235.000	50.91	-0.19	50.72	68.30	-17.58	peak



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



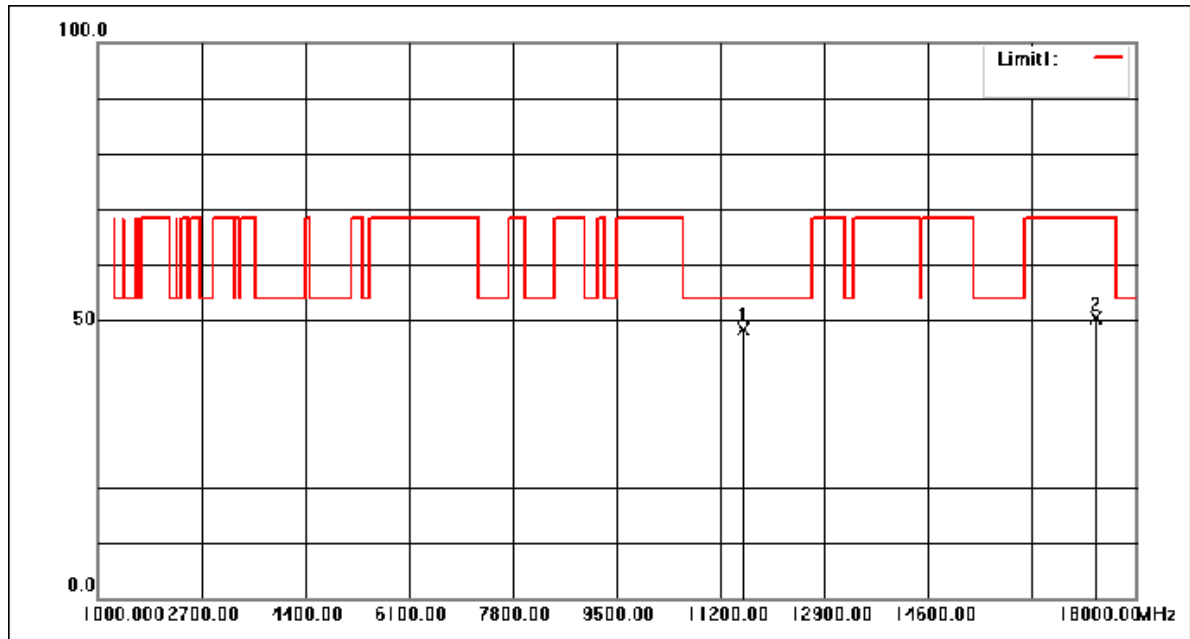
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	50.86	-2.33	48.53	54.00	-5.47	peak
2	17355.000	50.96	-0.29	50.67	68.30	-17.63	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	50.66	-2.33	48.33	54.00	-5.67	peak
2	17355.000	50.78	-0.29	50.49	68.30	-17.81	peak

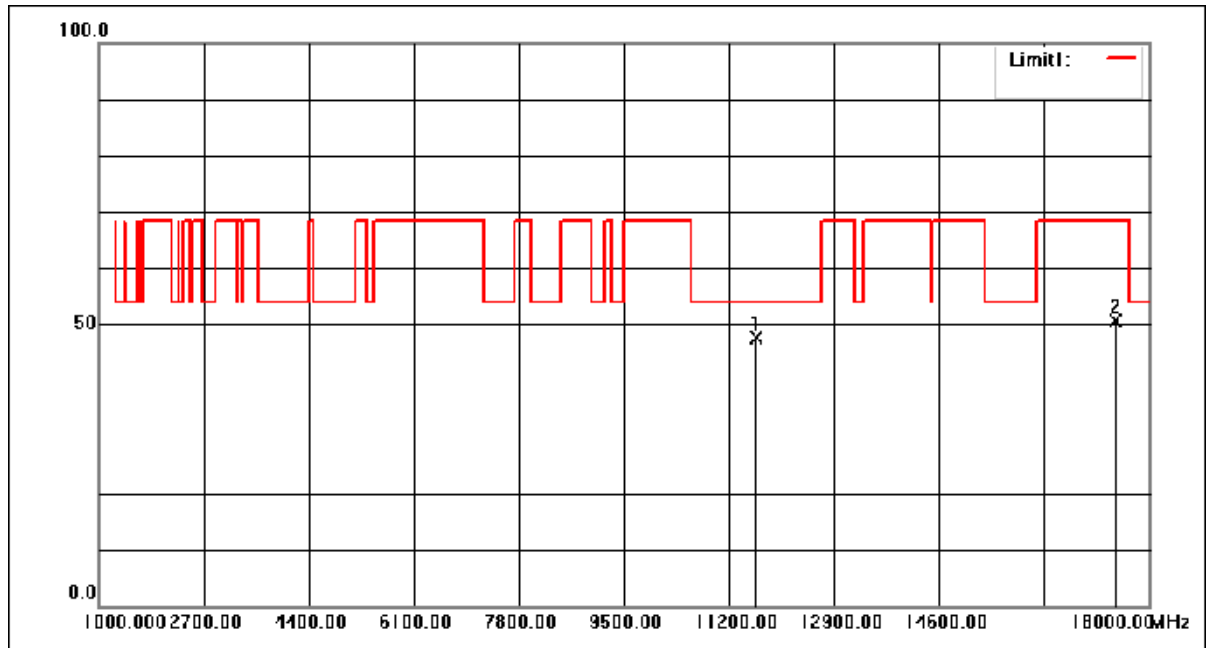


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



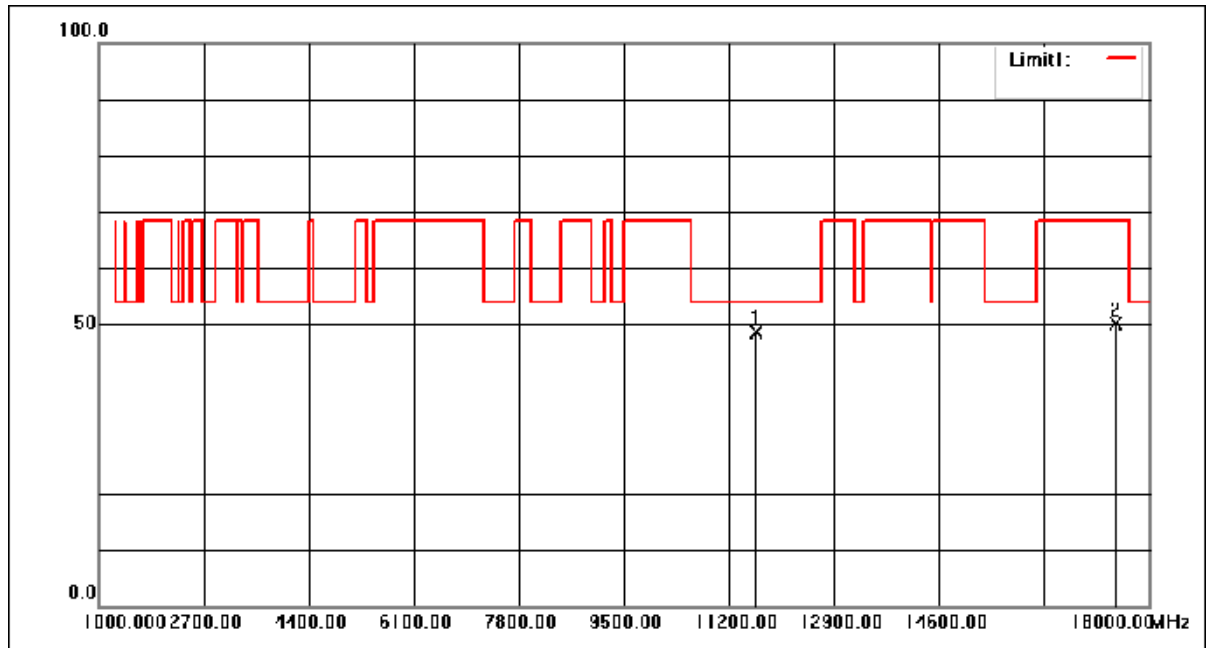
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	50.08	-2.40	47.68	54.00	-6.32	peak
2	17475.000	51.06	-0.39	50.67	68.30	-17.63	peak



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



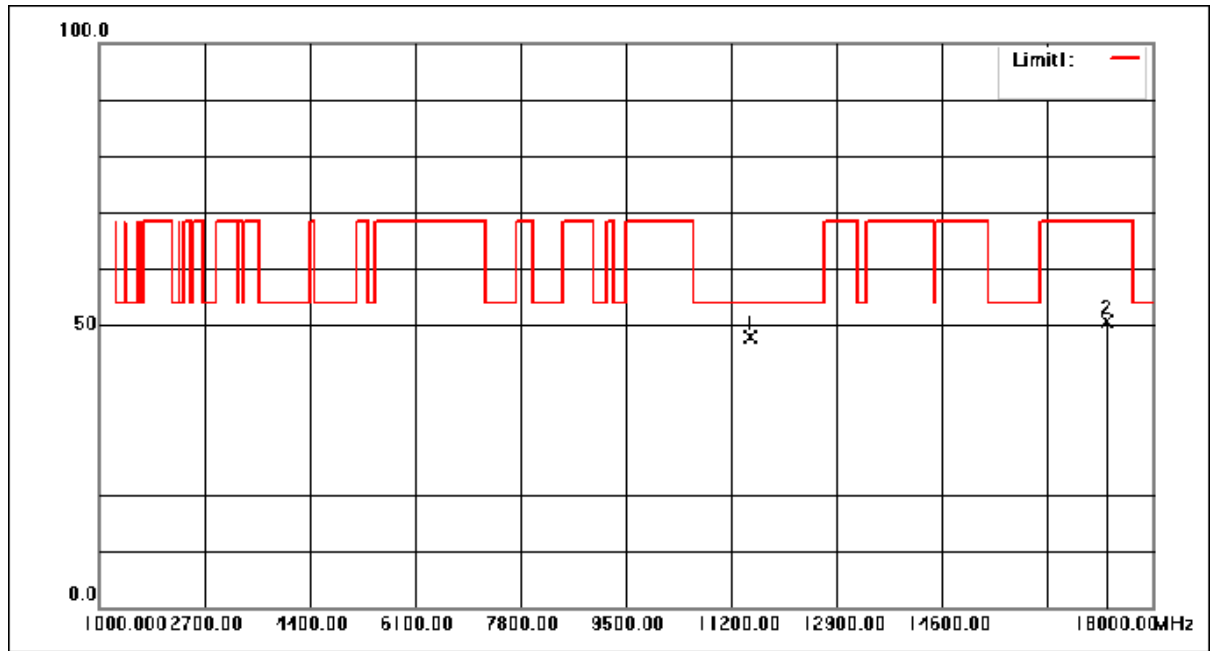
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	51.13	-2.40	48.73	54.00	-5.27	peak
2	17475.000	50.57	-0.39	50.18	68.30	-18.12	peak



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



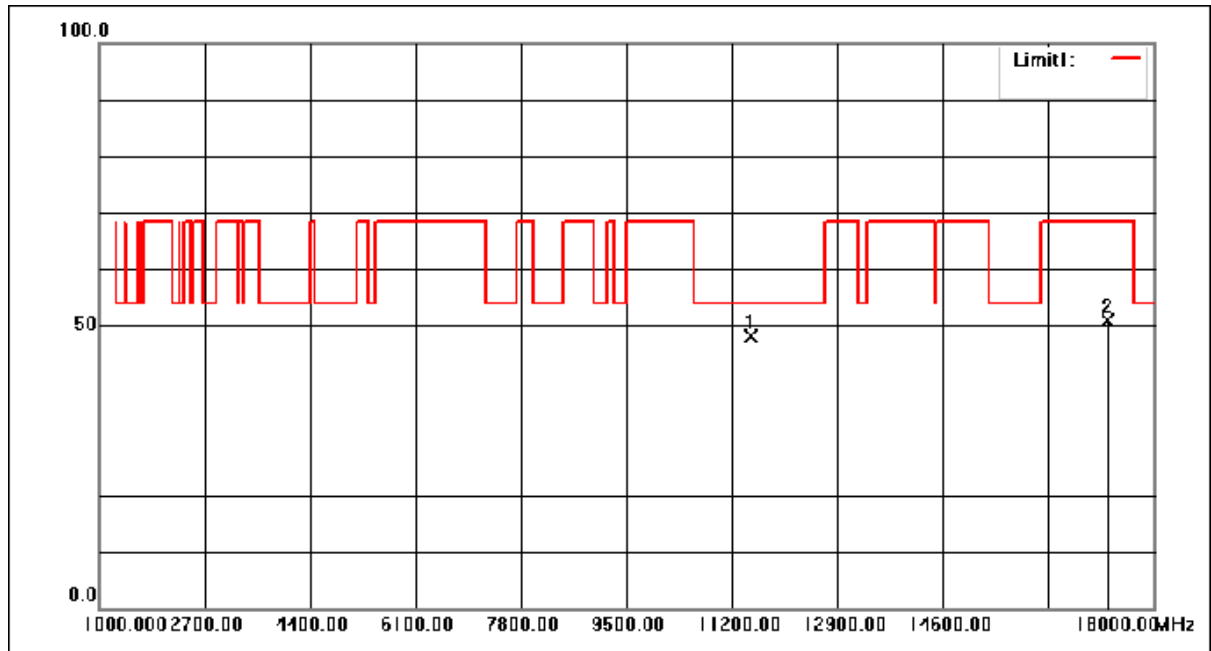
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11510.000	50.23	-2.27	47.96	54.00	-6.04	peak
2	17265.000	50.95	-0.22	50.73	68.30	-17.57	peak



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



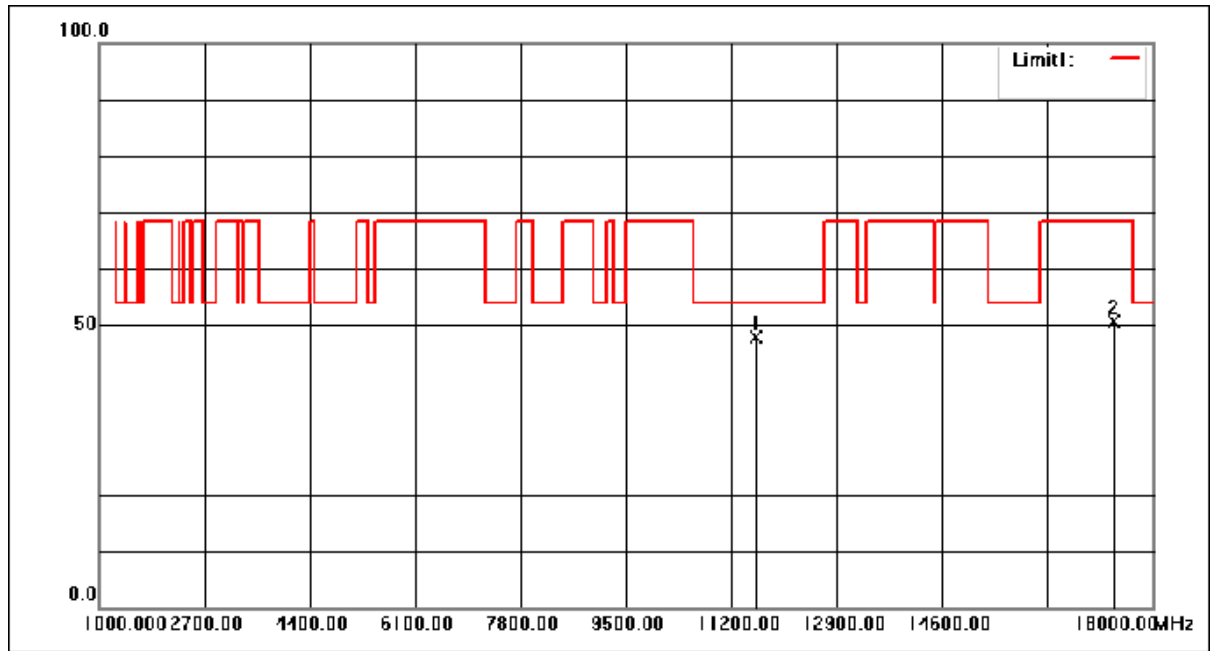
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11510.000	50.34	-2.27	48.07	54.00	-5.93	peak
2	17265.000	51.19	-0.22	50.97	68.30	-17.33	peak



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



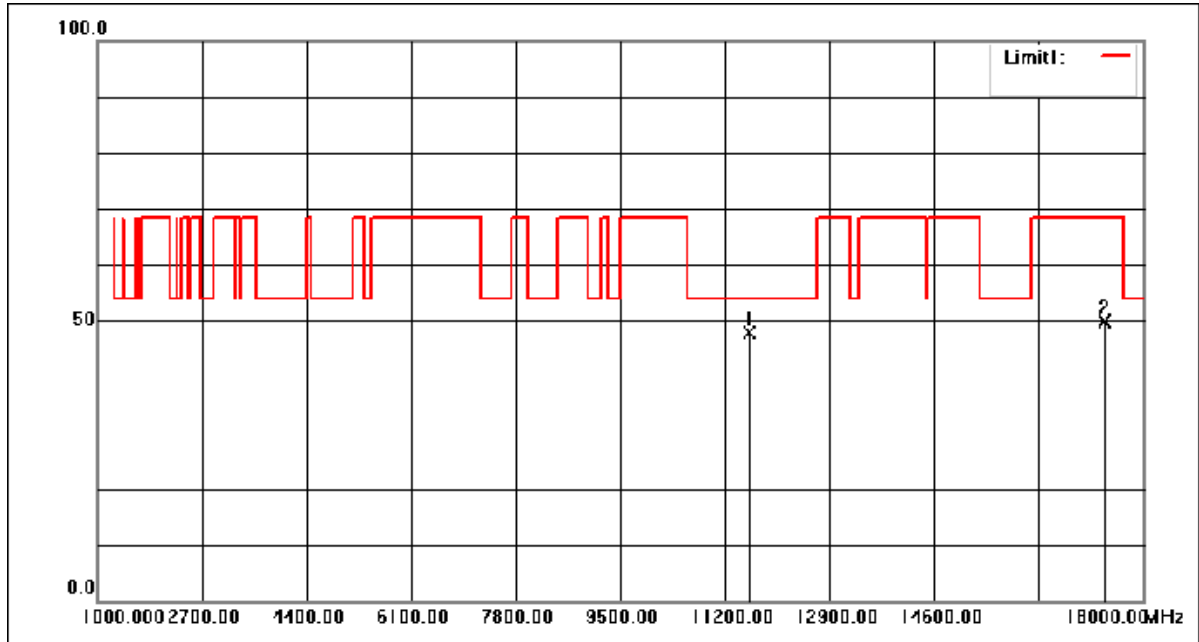
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11590.000	50.20	-2.34	47.86	54.00	-6.14	peak
2	17385.000	50.99	-0.32	50.67	68.30	-17.63	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11590.000	50.13	-2.34	47.79	54.00	-6.21	peak
2	17385.000	50.31	-0.32	49.99	68.30	-18.31	peak

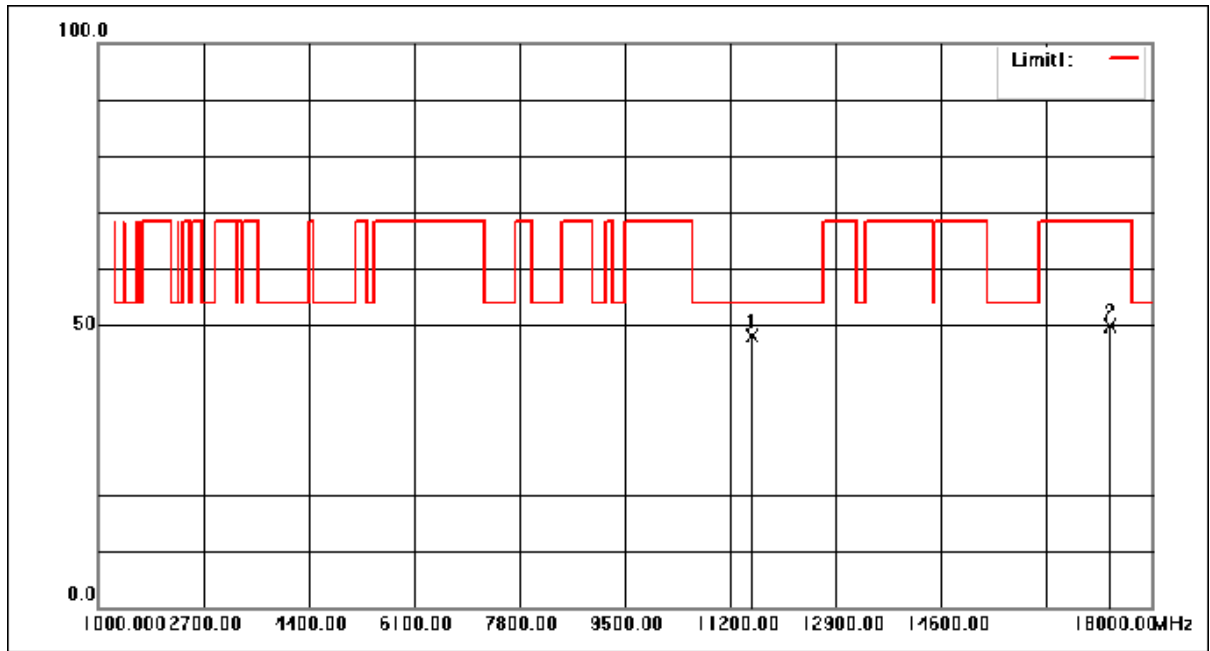


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



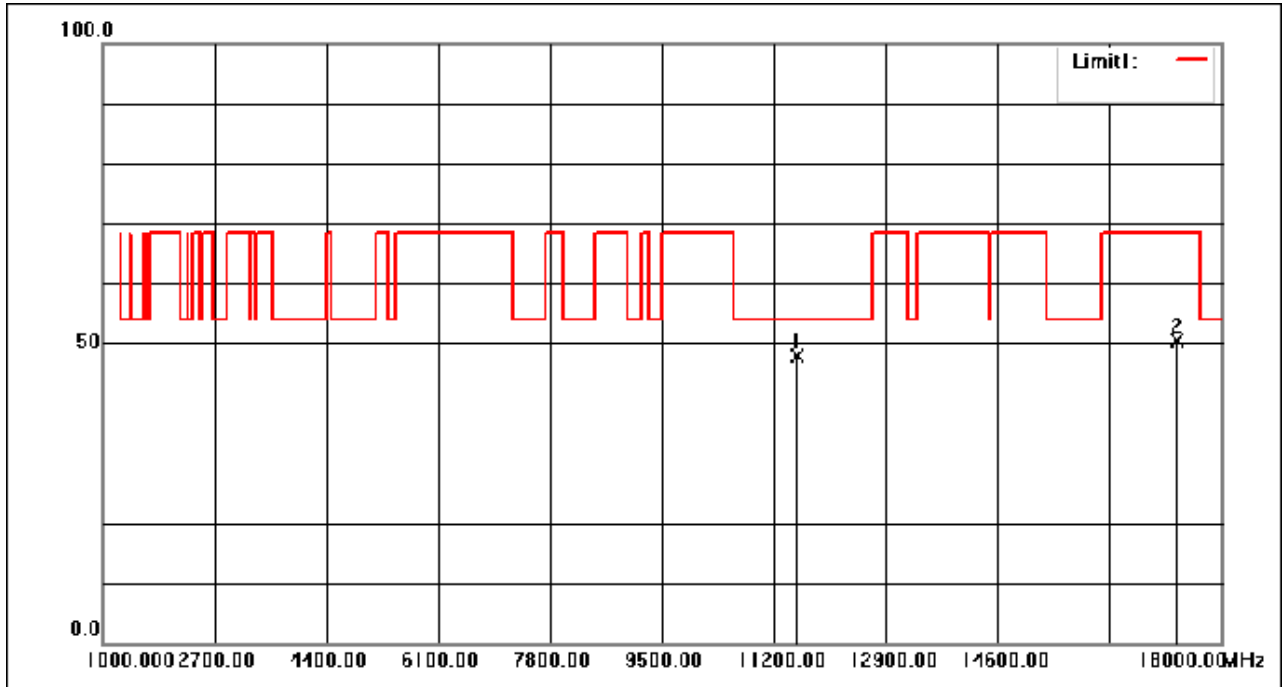
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11550.000	50.40	-2.31	48.09	54.00	-5.91	peak
2	17325.000	50.19	-0.27	49.92	68.30	-18.38	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11550.000	50.27	-2.31	47.96	54.00	-6.04	peak
2	17325.000	50.70	-0.27	50.43	68.30	-17.87	peak



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

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

Test Method: KDB 789033 D02 II G

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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**7.9.1 E.U.T. Operation**

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1006 mbar

b:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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

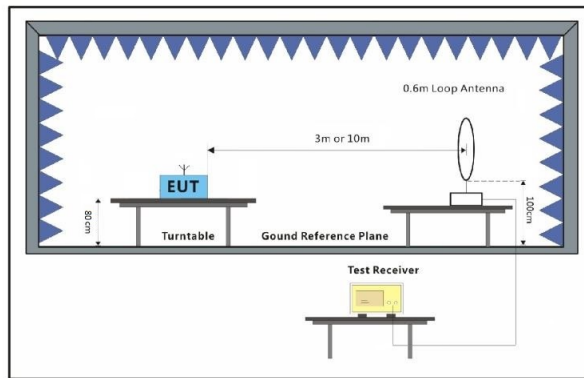
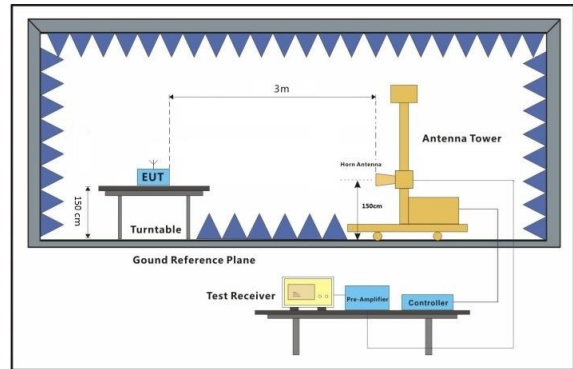
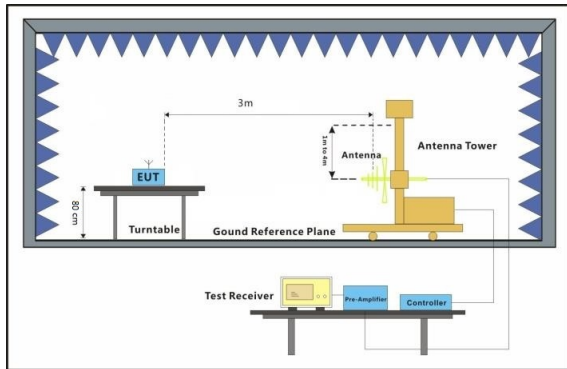
d:TX mode (Band 2C)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the 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)\_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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7.9.2 Test Setup Diagram



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**7.9.3 Measurement Procedure and Data**

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

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

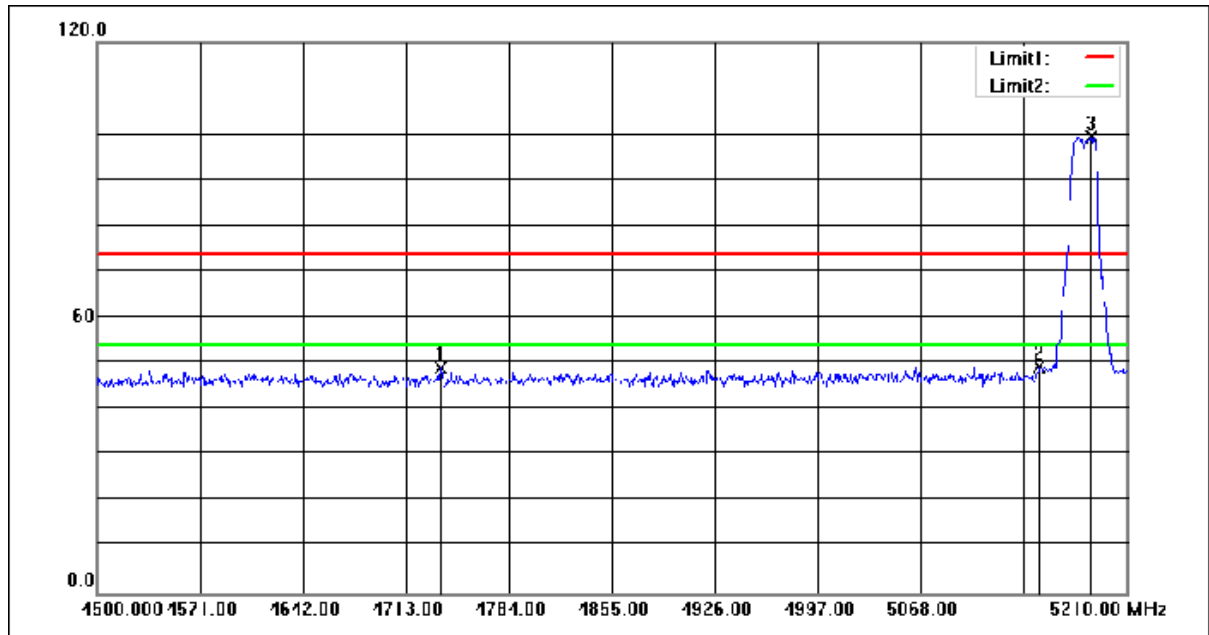
Remark: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a modulation and MIMO antenna operation for n/ac modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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



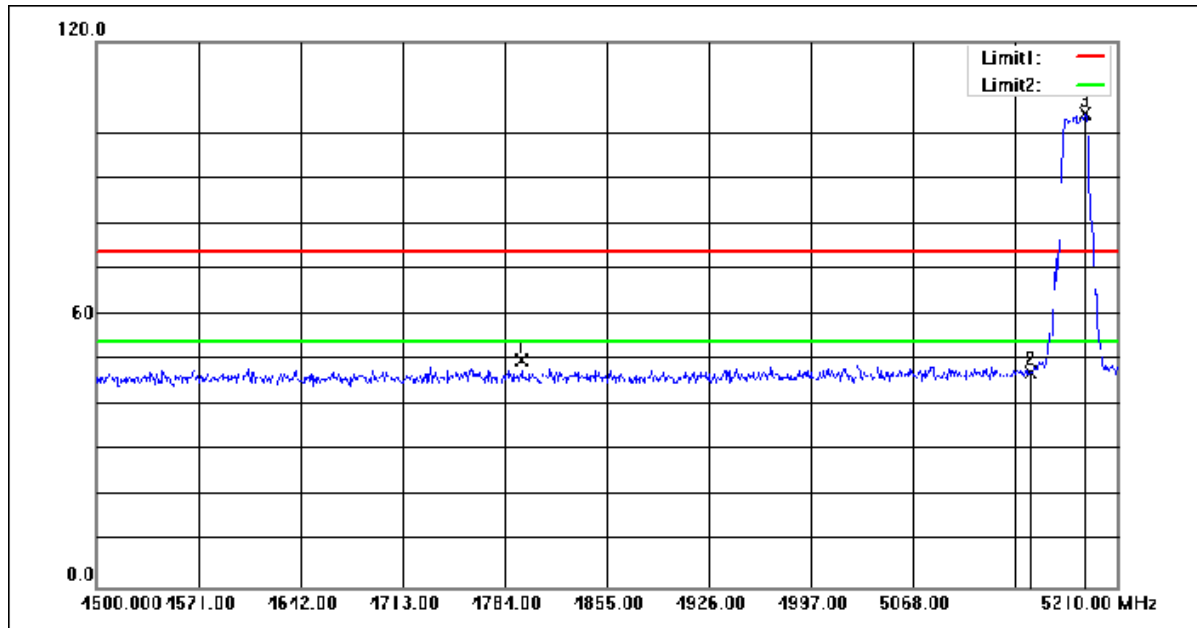
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	4737.140	51.56	-2.56	49.00	74.00	-25.00	peak
2	5150.000	50.95	-1.73	49.22	74.00	-24.78	peak
3	5185.860	101.11	-1.64	99.47	74.00	25.47	peak



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



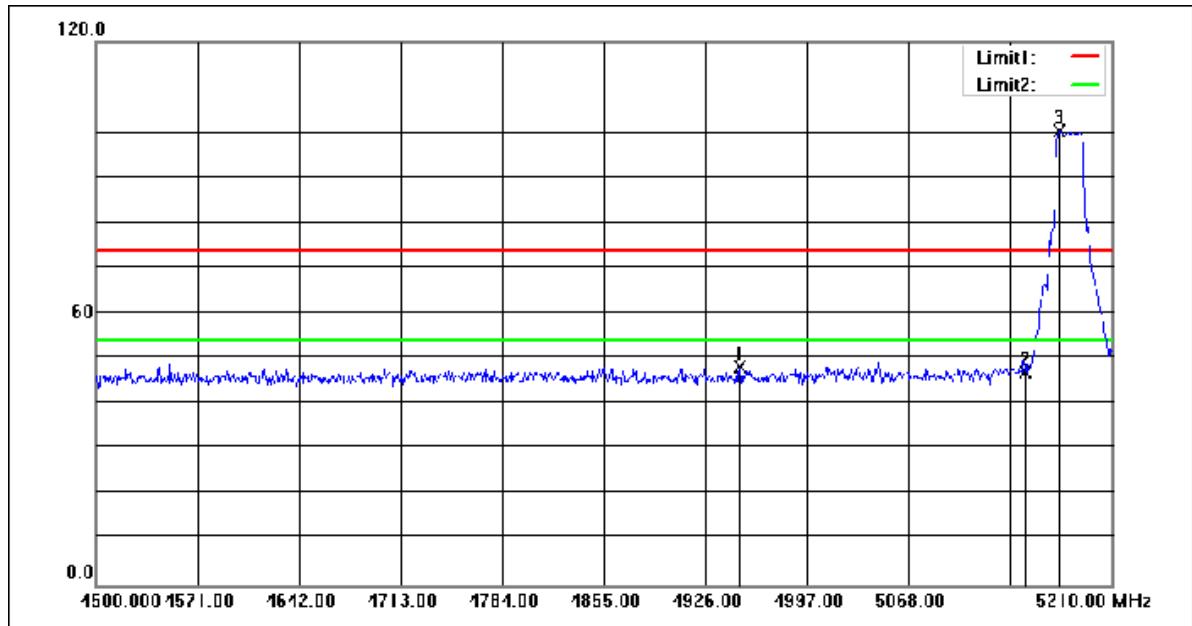
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4796.070	52.58	-2.69	49.89	74.00	-24.11	peak
2	5150.000	49.10	-1.73	47.37	74.00	-26.63	peak
3	5187.990	105.91	-1.63	104.28	74.00	30.28	peak



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



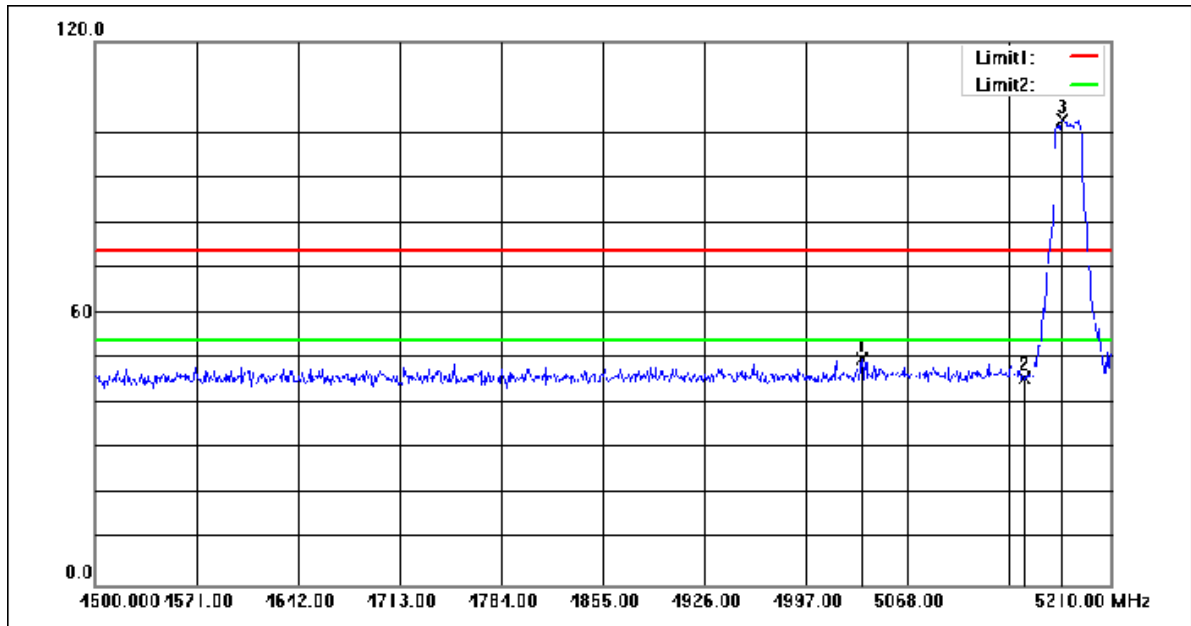
No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	4950.140	50.52	-2.28	48.24	74.00	-25.76	peak
2	5150.000	48.79	-1.73	47.06	74.00	-26.94	peak
3	5173.790	102.04	-1.67	100.37	74.00	26.37	peak



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



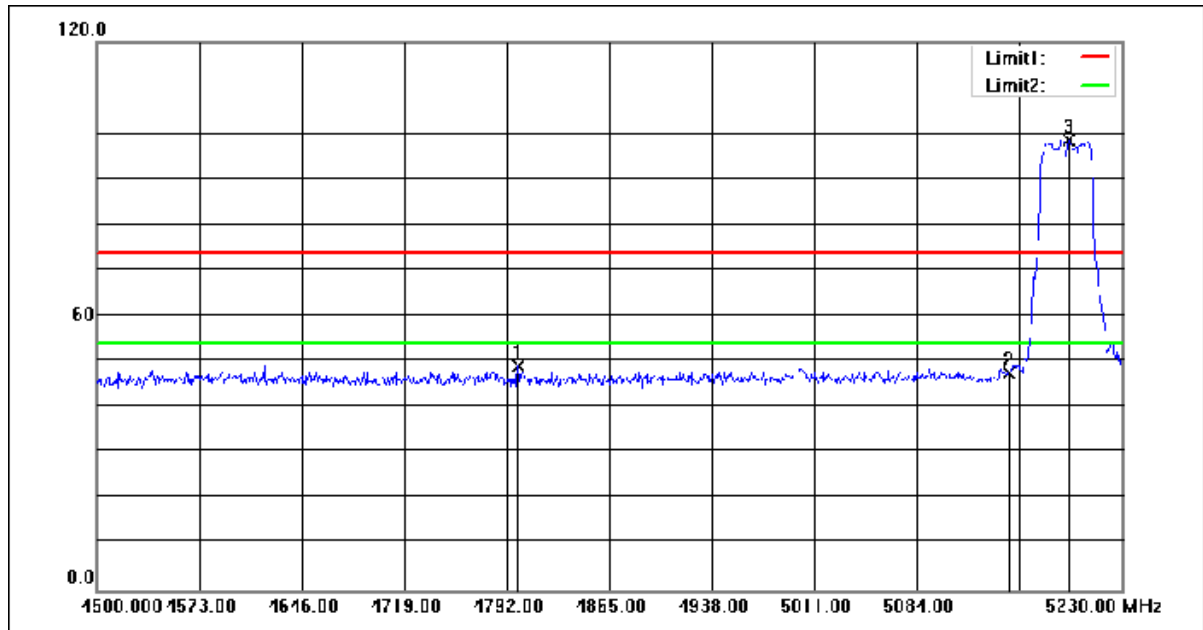
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5036.050	51.94	-2.05	49.89	74.00	-24.11	peak
2	5150.000	47.40	-1.73	45.67	74.00	-28.33	peak
3	5176.630	104.48	-1.66	102.82	74.00	28.82	peak



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



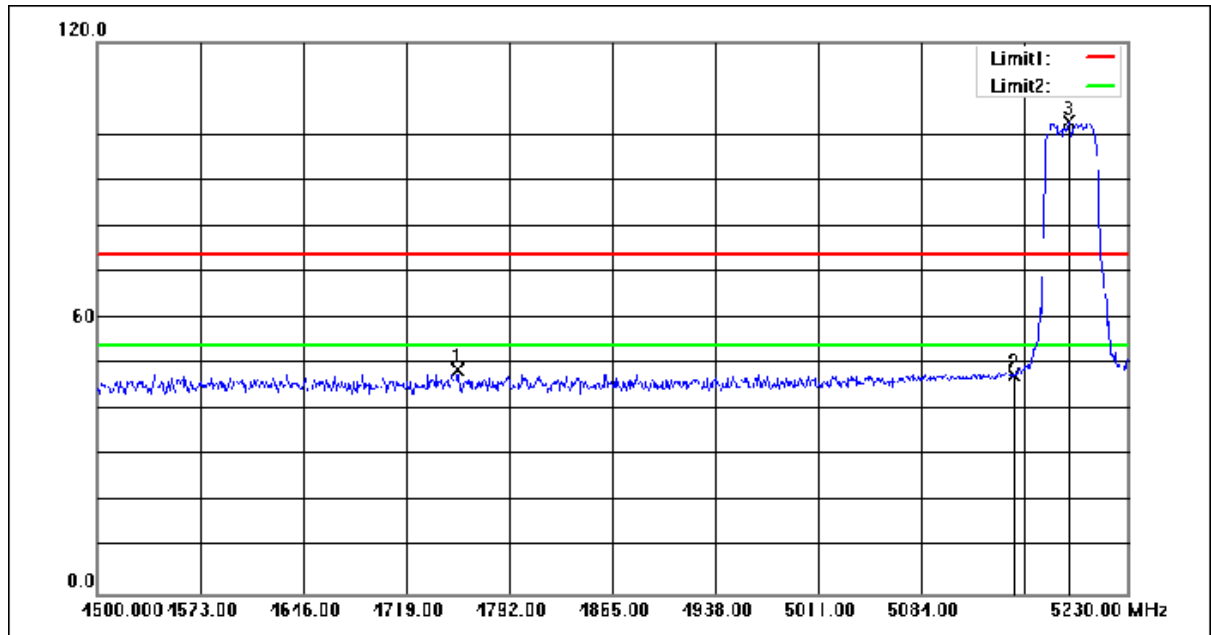
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	4800.030	51.75	-2.70	49.05	74.00	-24.95	peak
2	5150.000	49.14	-1.73	47.41	74.00	-26.59	peak
3	5192.040	100.28	-1.62	98.66	74.00	24.66	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	4755.500	51.40	-2.60	48.80	74.00	-25.20	peak
2	5150.000	49.38	-1.73	47.65	74.00	-26.35	peak
3	5188.390	104.24	-1.63	102.61	74.00	28.61	peak

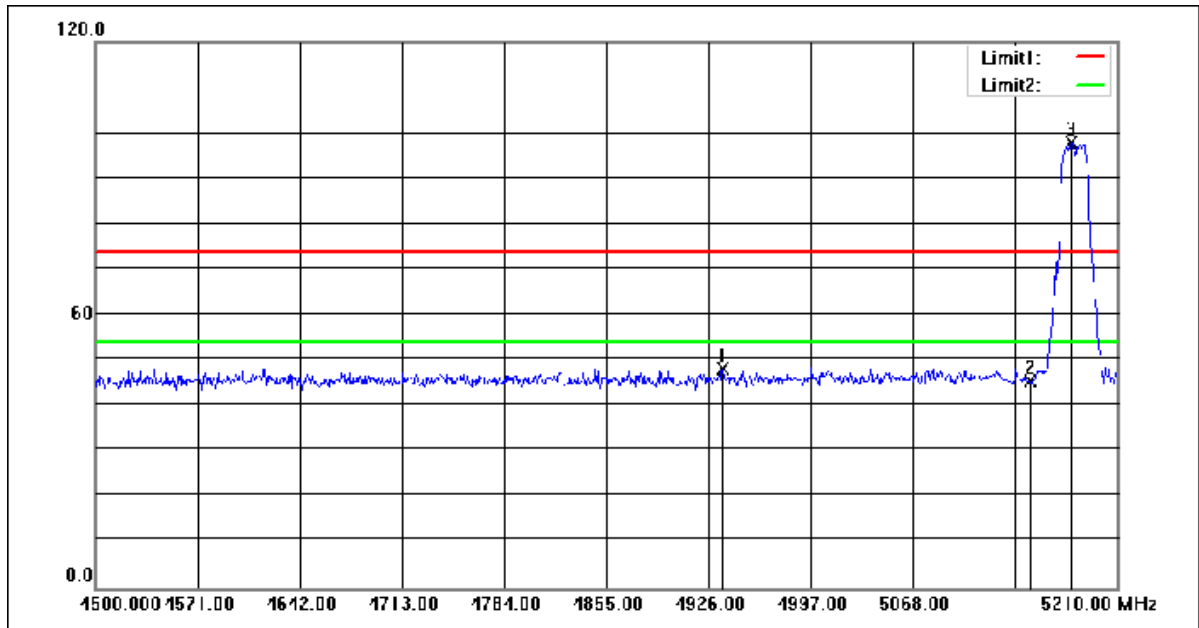


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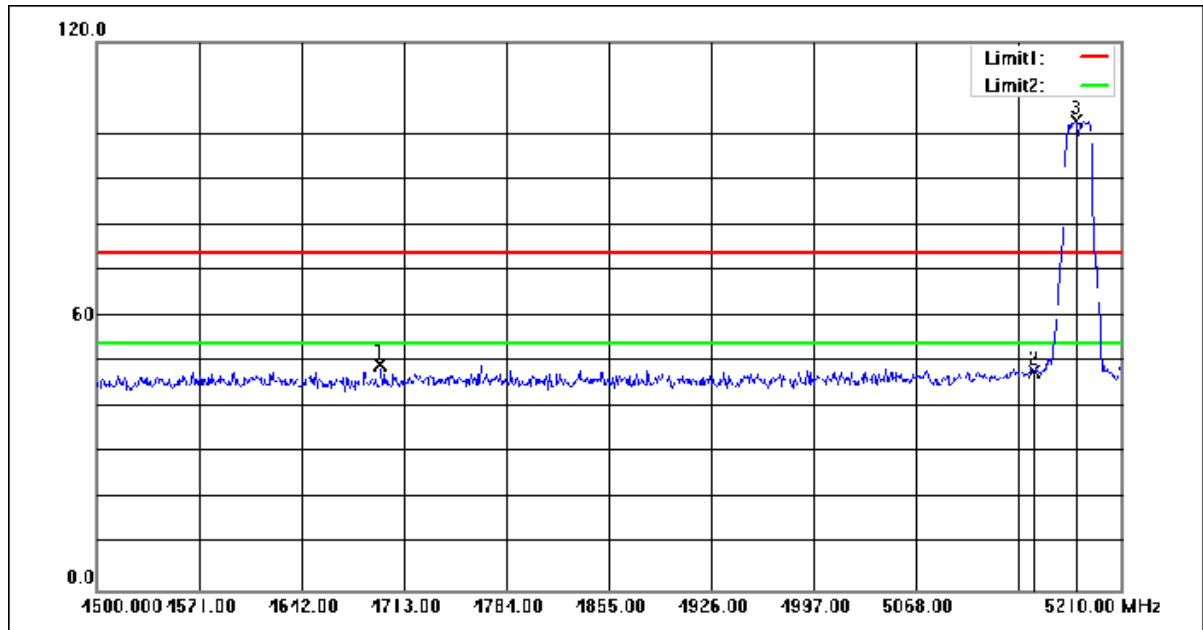
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4935.940	50.50	-2.32	48.18	74.00	-25.82	peak
2	5150.000	47.19	-1.73	45.46	74.00	-28.54	peak
3	5178.050	99.53	-1.66	97.87	74.00	23.87	peak



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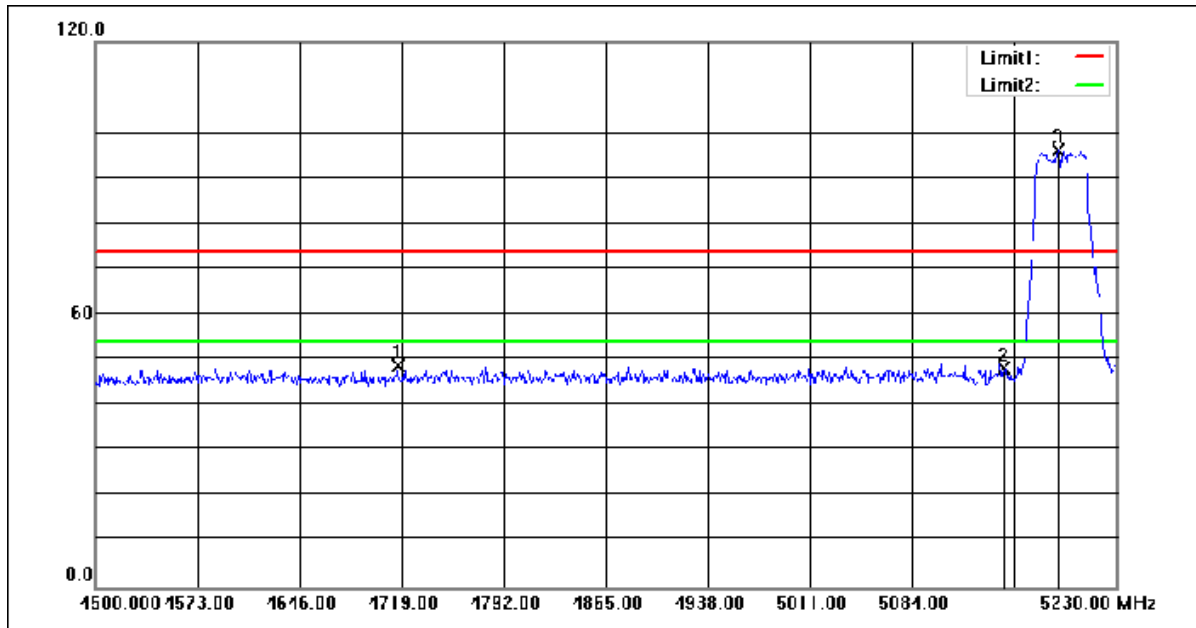
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	4696.670	51.72	-2.46	49.26	74.00	-24.74	peak
2	5150.000	49.67	-1.73	47.94	74.00	-26.06	peak
3	5178.760	104.54	-1.66	102.88	74.00	28.88	peak



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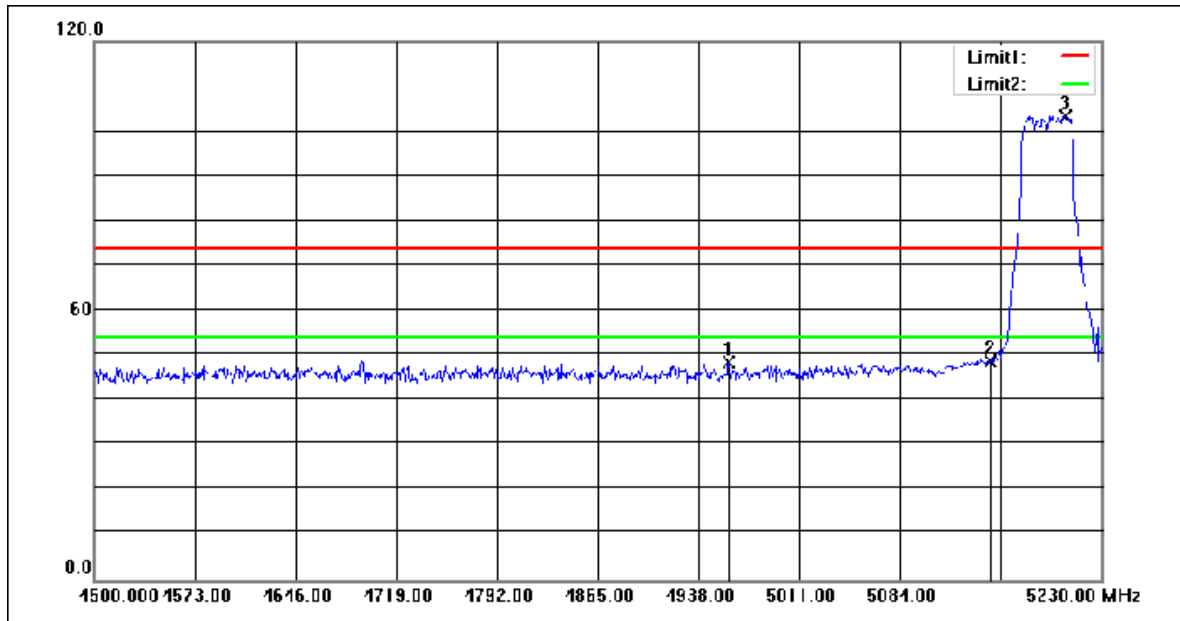
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4716.080	51.12	-2.50	48.62	74.00	-25.38	peak
2	5150.000	50.00	-1.73	48.27	74.00	-25.73	peak
3	5188.390	97.66	-1.63	96.03	74.00	22.03	peak



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



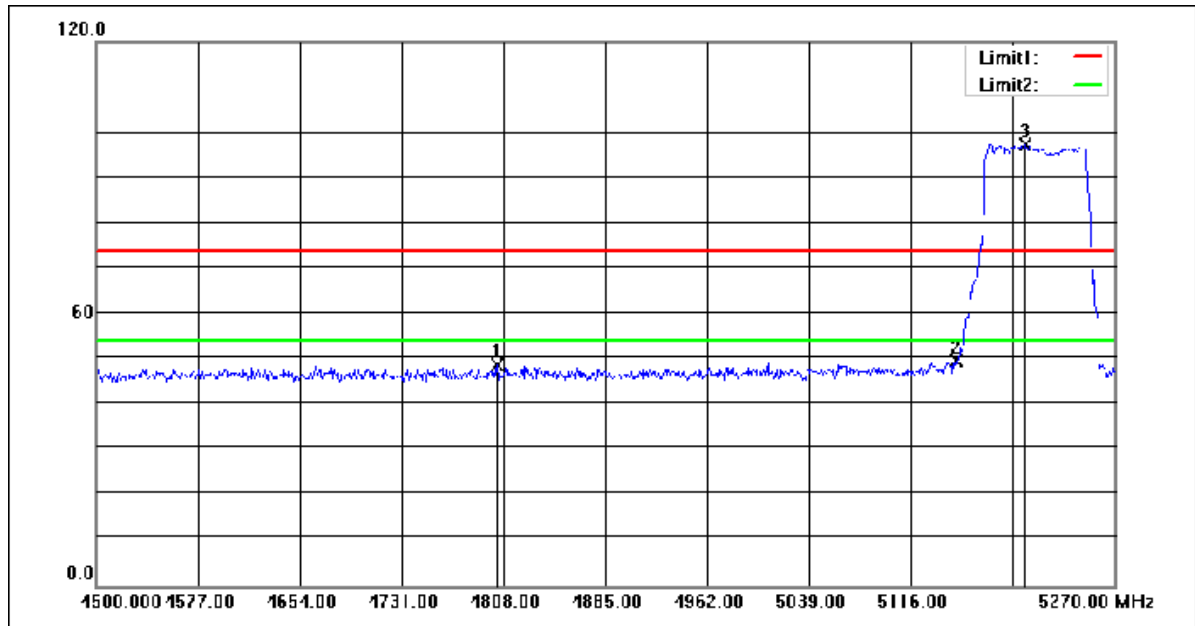
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4959.900	50.59	-2.26	48.33	74.00	-25.67	peak
2	5150.000	50.35	-1.73	48.62	74.00	-25.38	peak
3	5204.450	105.09	-1.59	103.50	74.00	29.50	peak



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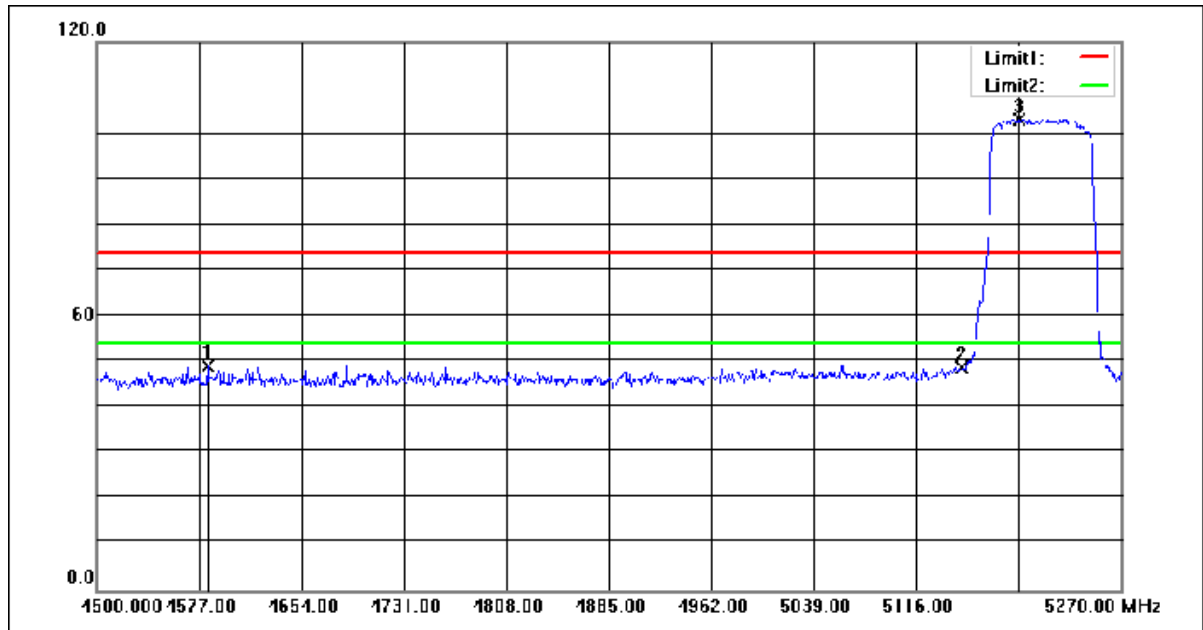
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4803.380	51.36	-2.69	48.67	74.00	-25.33	peak
2	5150.000	51.45	-1.73	49.72	74.00	-24.28	peak
3	5202.240	98.97	-1.60	97.37	74.00	23.37	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	4583.160	51.42	-2.29	49.13	74.00	-24.87	peak
2	5150.000	50.40	-1.73	48.67	74.00	-25.33	peak
3	5193.770	104.79	-1.62	103.17	74.00	29.17	peak

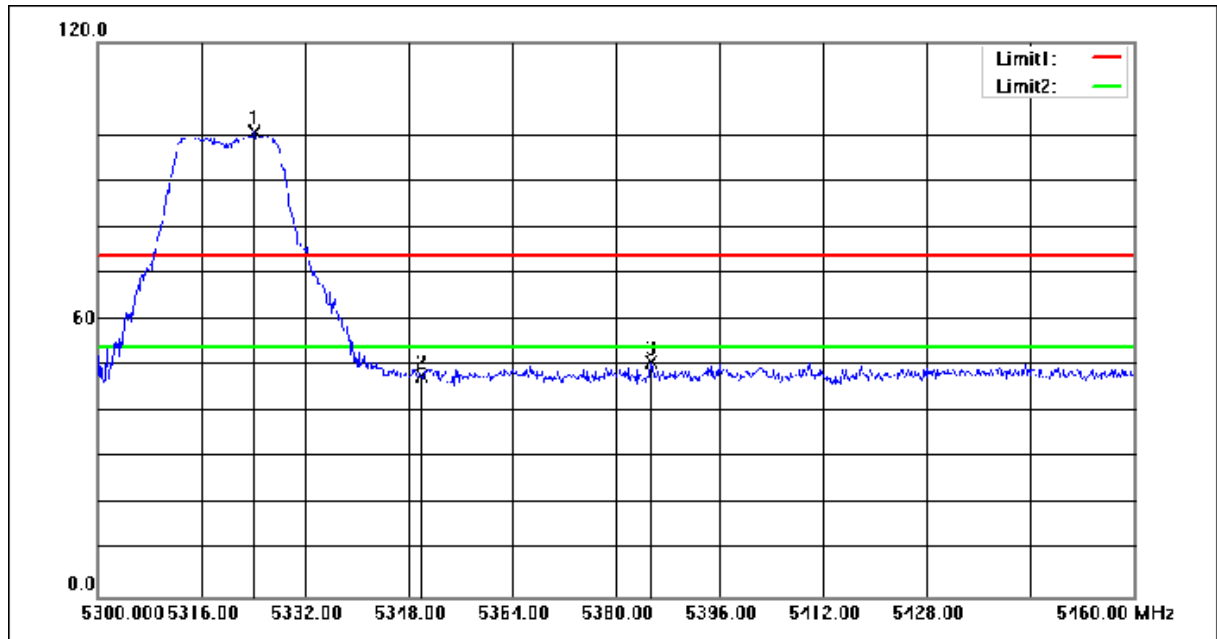


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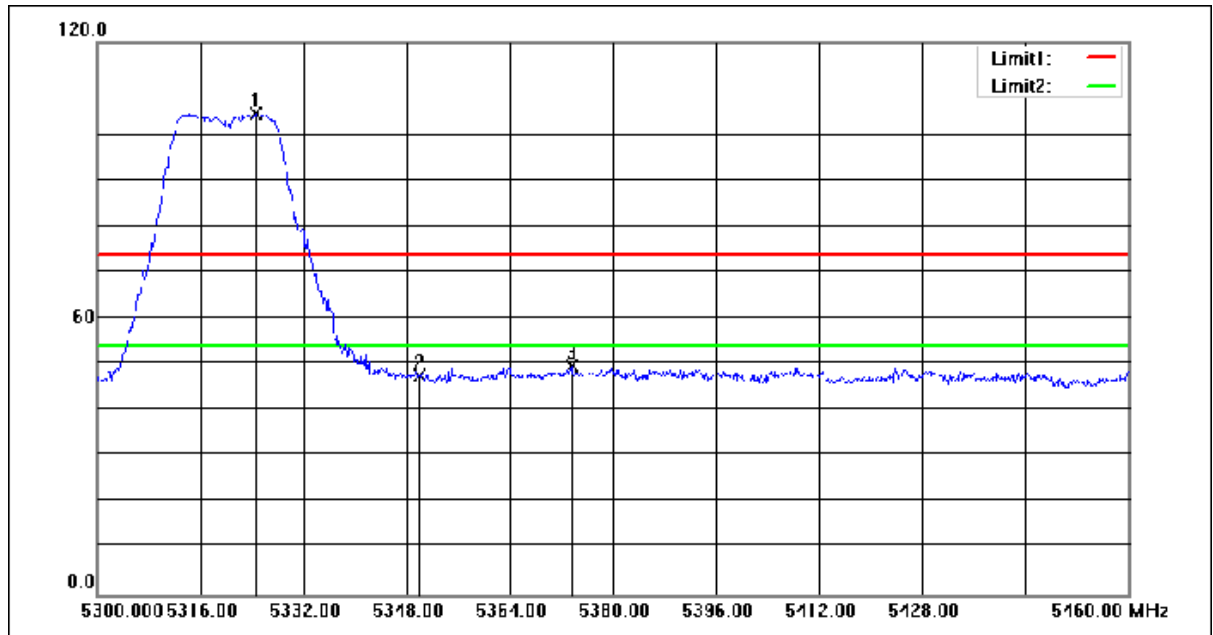
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5324.160	102.01	-1.39	100.62	74.00	26.62	peak
2	5350.000	49.33	-1.34	47.99	74.00	-26.01	peak
3	5385.440	52.08	-1.28	50.80	74.00	-23.20	peak



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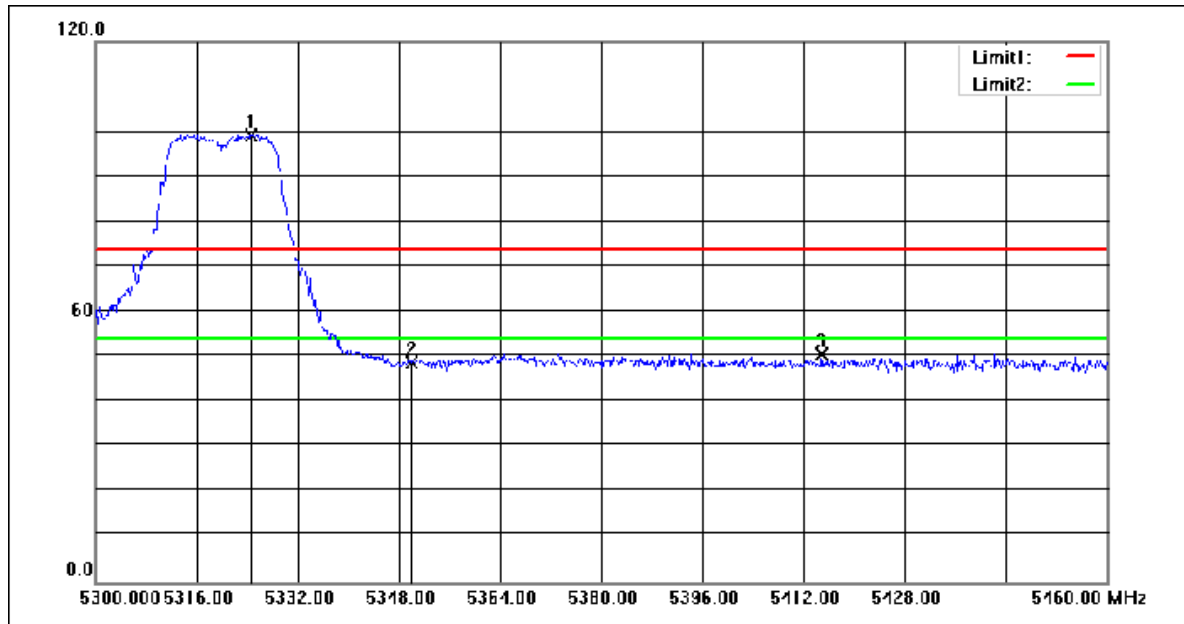
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5324.640	106.05	-1.39	104.66	74.00	30.66	peak
2	5350.000	48.78	-1.34	47.44	74.00	-26.56	peak
3	5373.600	50.81	-1.30	49.51	74.00	-24.49	peak



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



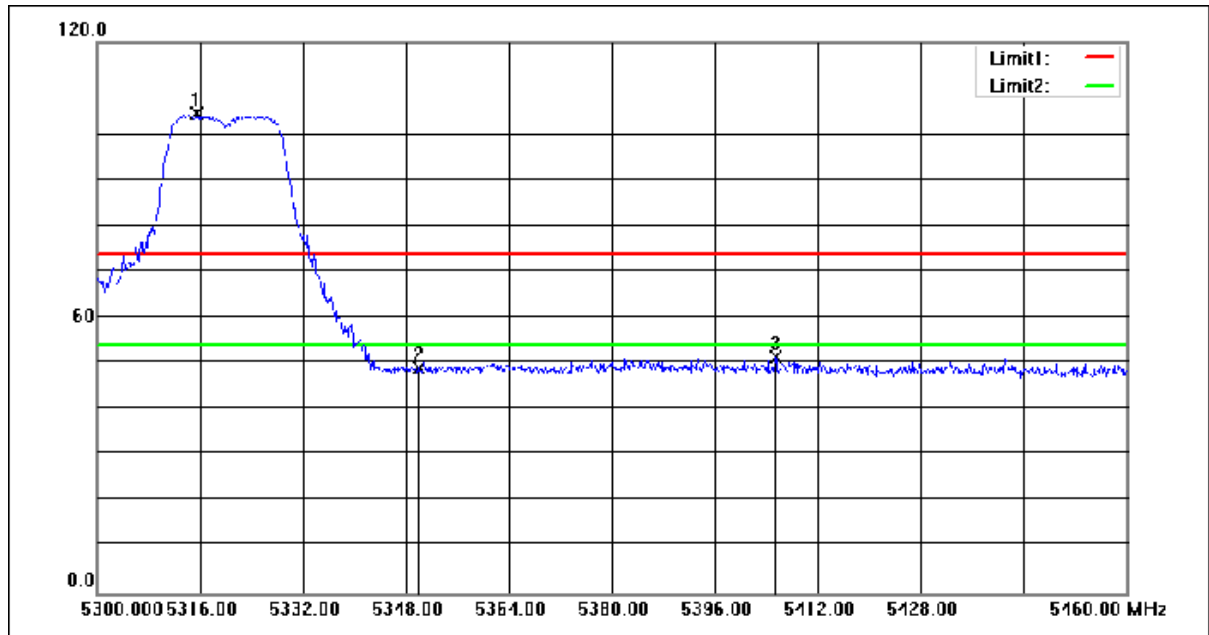
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5324.640	100.61	-1.39	99.22	74.00	25.22	peak
2	5350.000	49.99	-1.34	48.65	74.00	-25.35	peak
3	5414.880	51.73	-1.26	50.47	74.00	-23.53	peak



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



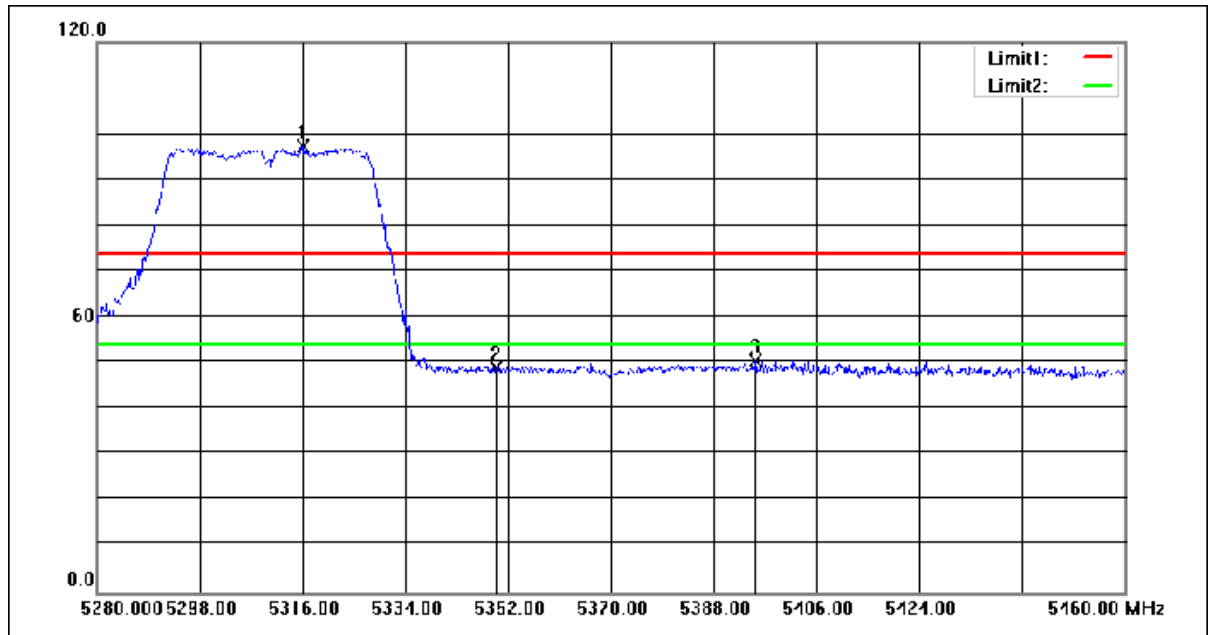
No.	Frequency (MHz)	Reading ( )	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5315.520	106.00	-1.41	104.59	74.00	30.59	peak
2	5350.000	50.25	-1.34	48.91	74.00	-25.09	peak
3	5405.440	52.70	-1.26	51.44	74.00	-22.56	peak



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



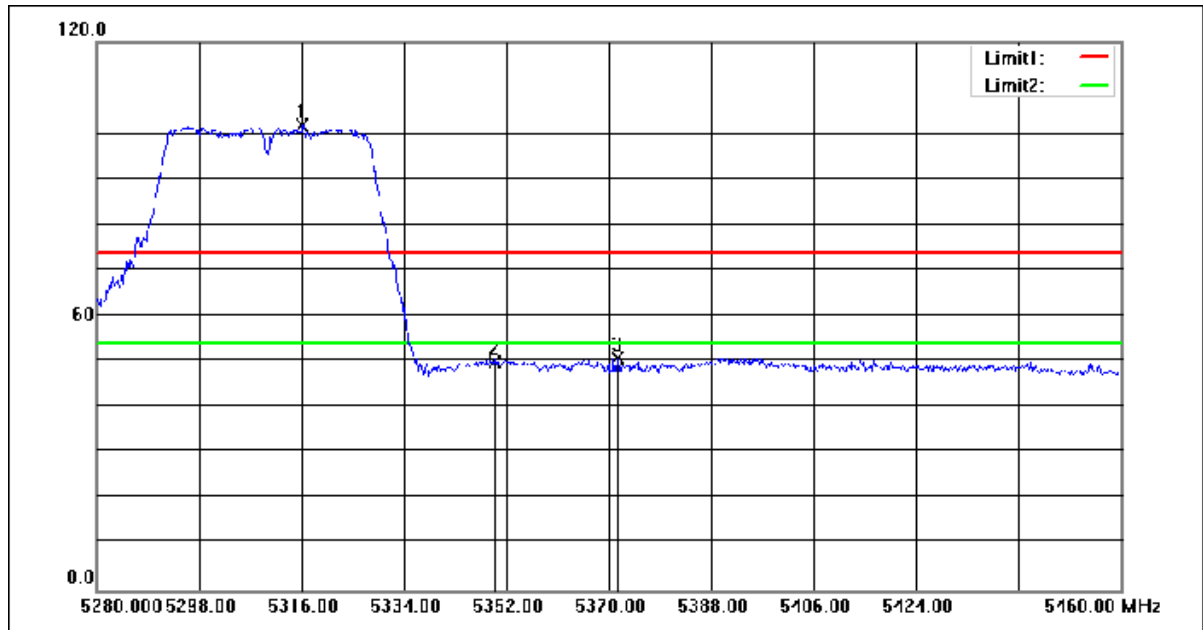
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5316.000	98.70	-1.40	97.30	74.00	23.30	peak
2	5350.000	50.39	-1.34	49.05	74.00	-24.95	peak
3	5395.380	51.77	-1.27	50.50	74.00	-23.50	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5316.180	103.20	-1.40	101.80	74.00	27.80	peak
2	5350.000	51.21	-1.34	49.87	74.00	-24.13	peak
3	5371.440	52.08	-1.31	50.77	74.00	-23.23	peak

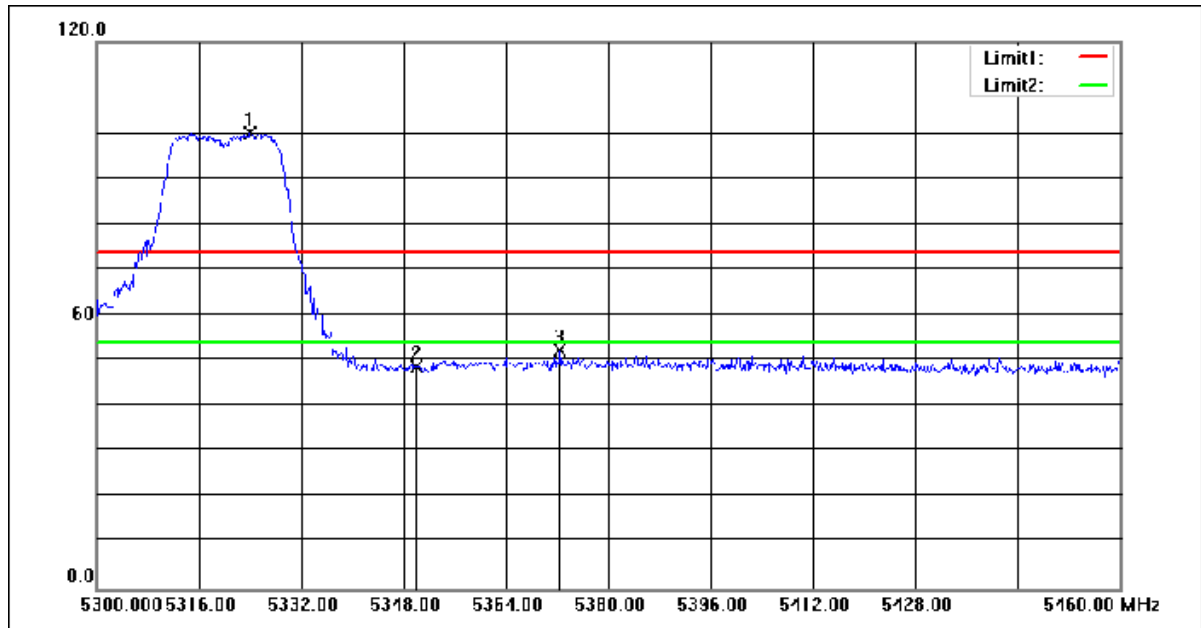


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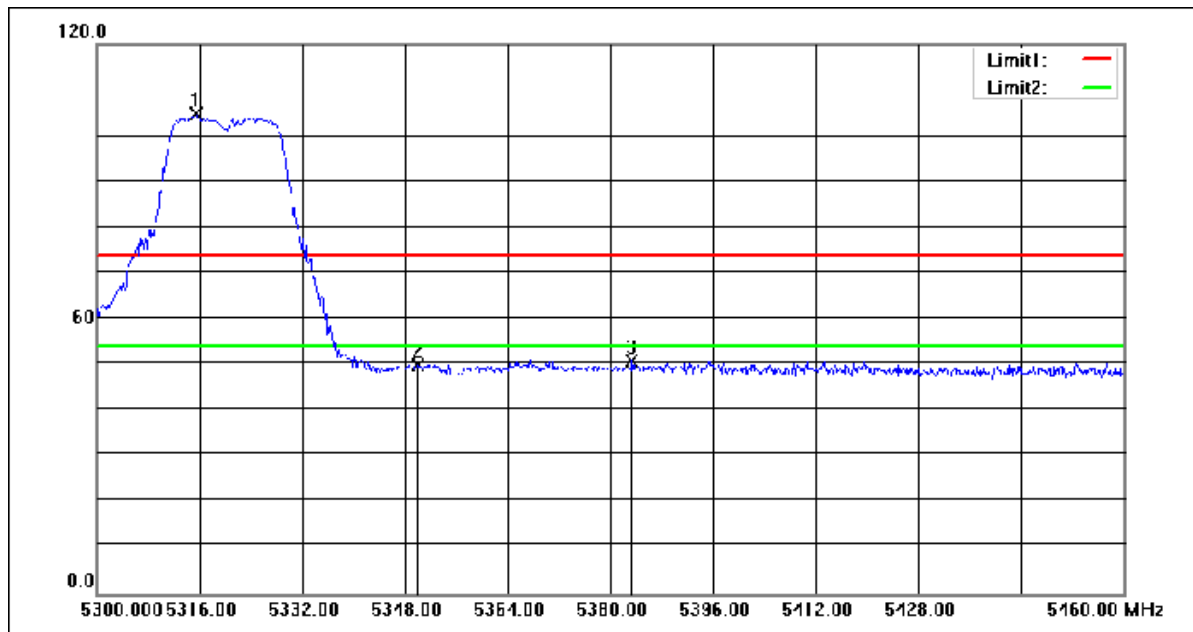
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5324.000	101.54	-1.39	100.15	74.00	26.15	peak
2	5350.000	50.14	-1.34	48.80	74.00	-25.20	peak
3	5372.480	53.70	-1.30	52.40	74.00	-21.60	peak



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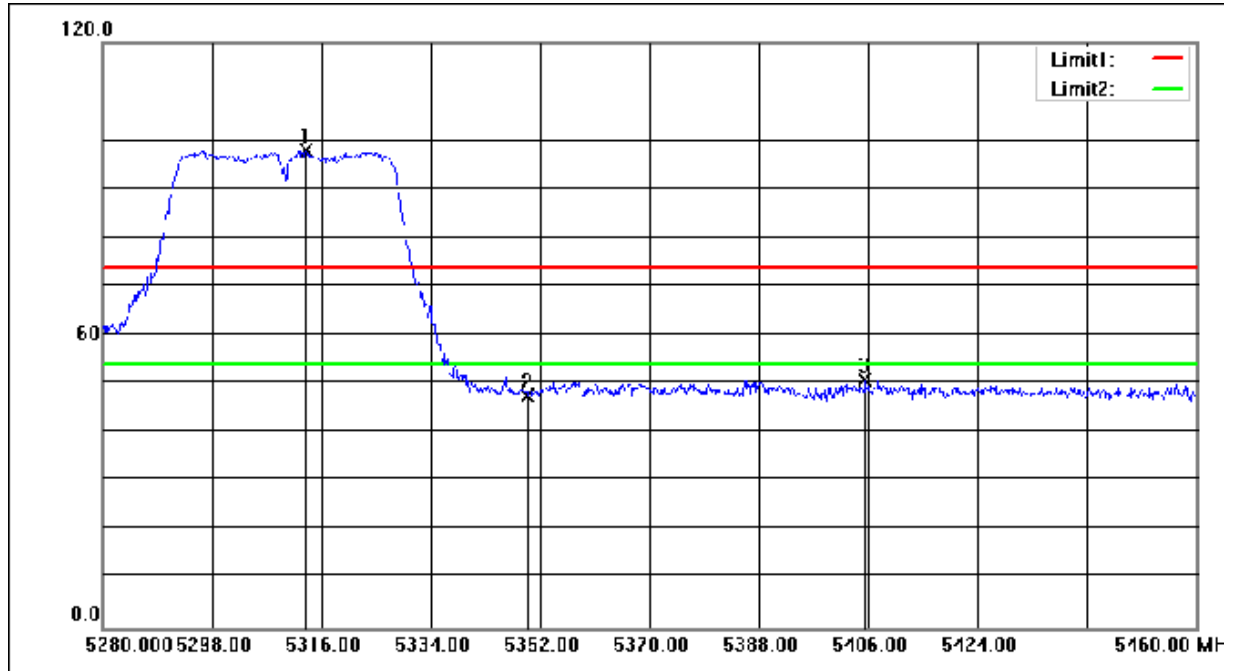
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5315.520	106.12	-1.41	104.71	74.00	30.71	peak
2	5350.000	51.18	-1.34	49.84	74.00	-24.16	peak
3	5383.360	52.29	-1.29	51.00	74.00	-23.00	peak



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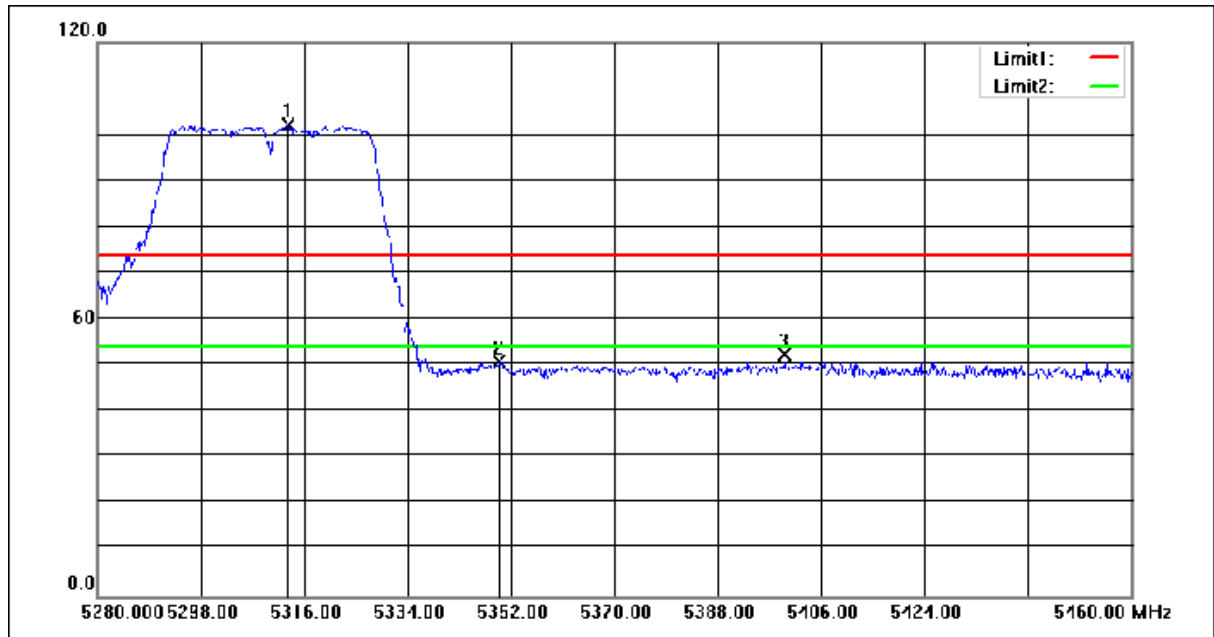
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5313.480	99.26	-1.41	97.85	74.00	23.85	peak
2	5350.000	49.00	-1.34	47.66	74.00	-26.34	peak
3	5405.460	52.21	-1.26	50.95	74.00	-23.05	peak



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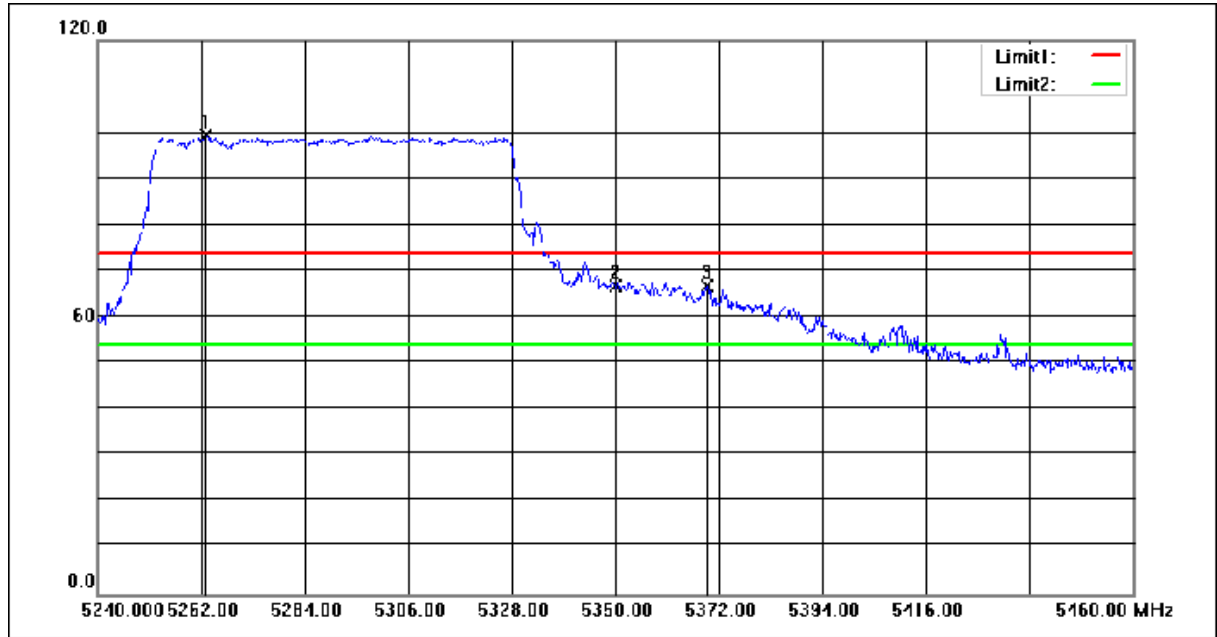
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1	5313.300	103.71	-1.41	102.30	74.00	28.30	peak
2	5350.000	52.09	-1.34	50.75	74.00	-23.25	peak
3	5399.700	53.56	-1.26	52.30	74.00	-21.70	peak



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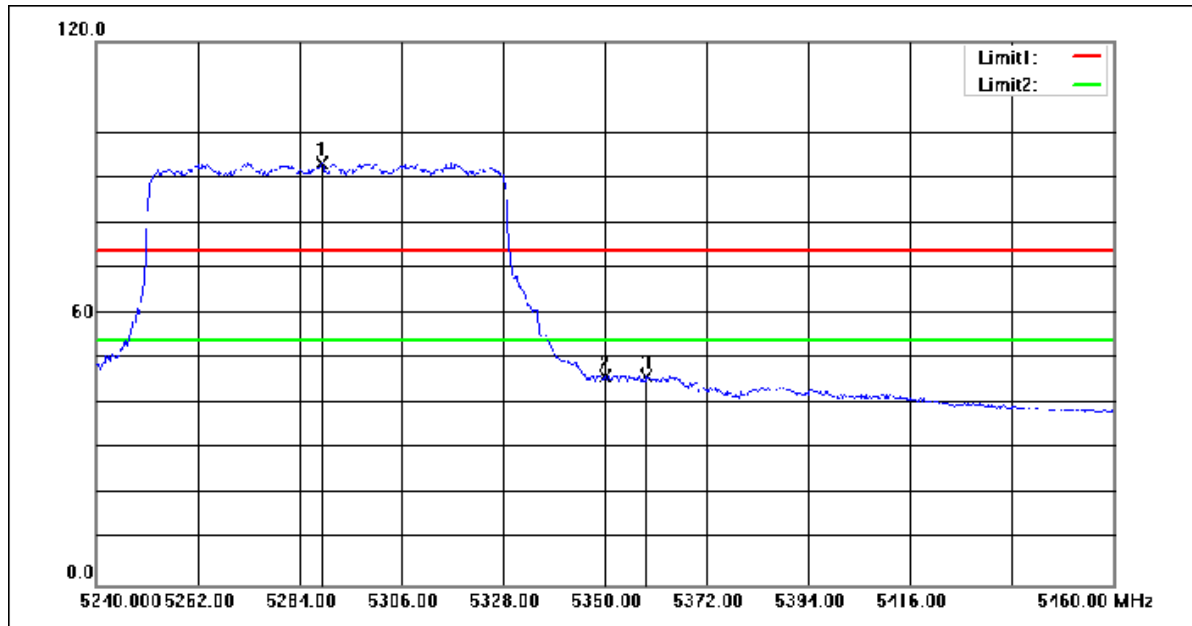
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5263.100	100.98	-1.49	99.49	74.00	25.49	peak
2	5350.000	67.96	-1.34	66.62	74.00	-7.38	peak
3	5369.580	68.05	-1.31	66.74	74.00	-7.26	peak



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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5288.840	94.51	-1.45	93.06	54.00	39.06	AVG
2	5350.000	47.35	-1.34	46.01	54.00	-7.99	AVG
3	5359.020	47.42	-1.33	46.09	54.00	-7.91	AVG

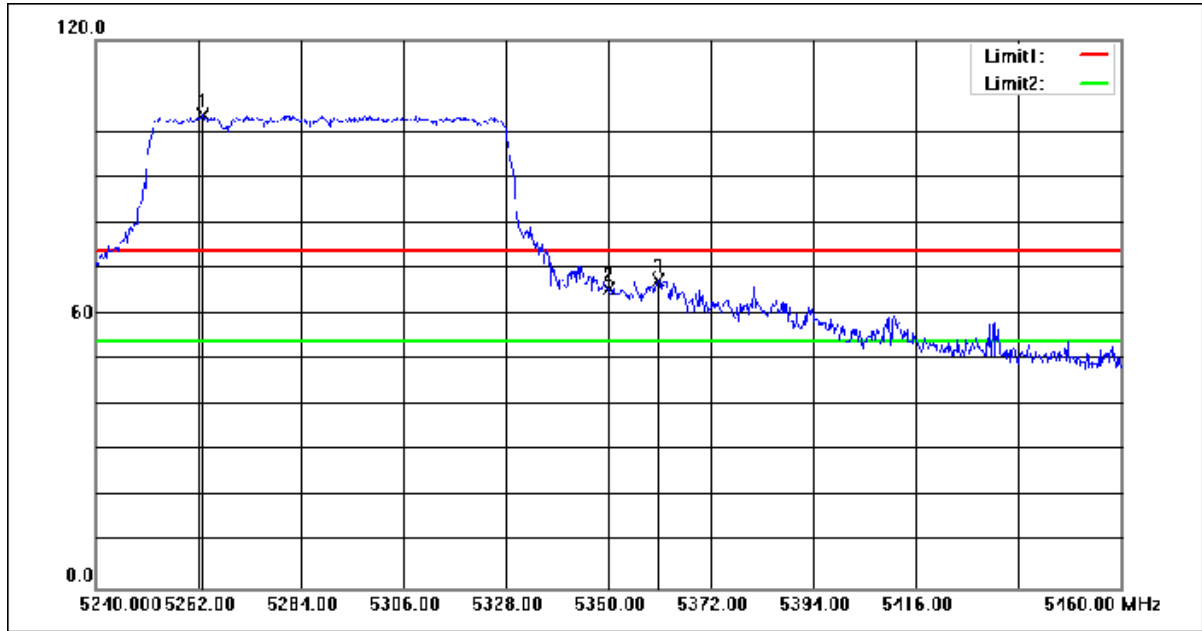


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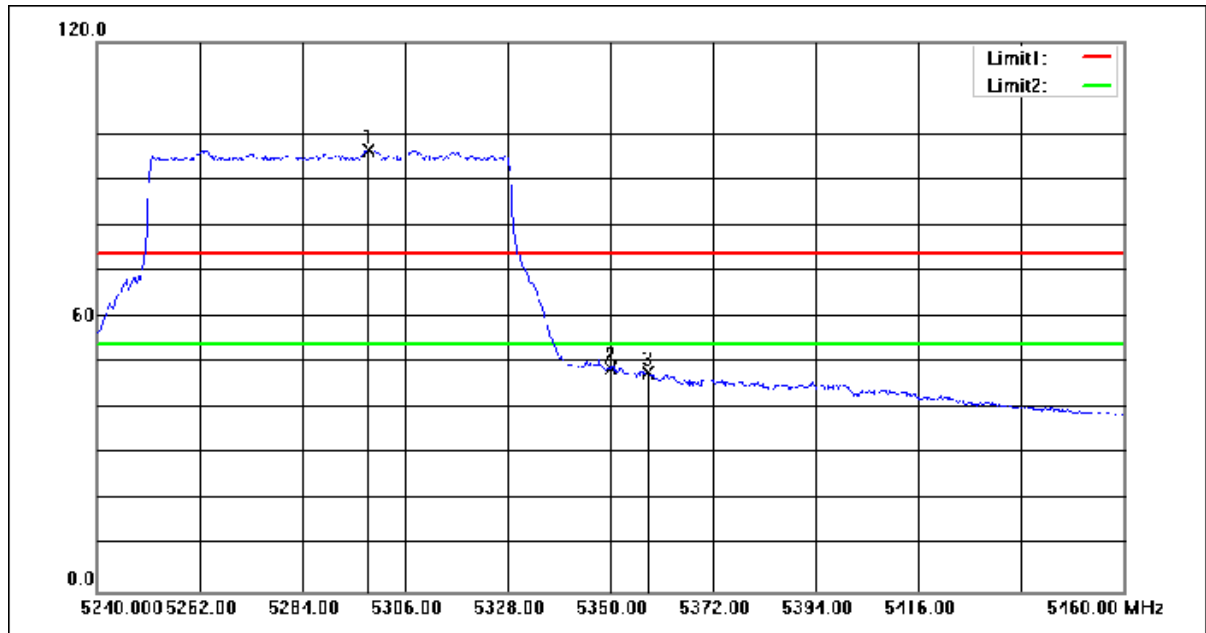
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5263.100	105.29	-1.49	103.80	74.00	29.80	peak
2	5350.000	66.86	-1.34	65.52	74.00	-8.48	peak
3	5360.780	68.68	-1.32	67.36	74.00	-6.64	peak



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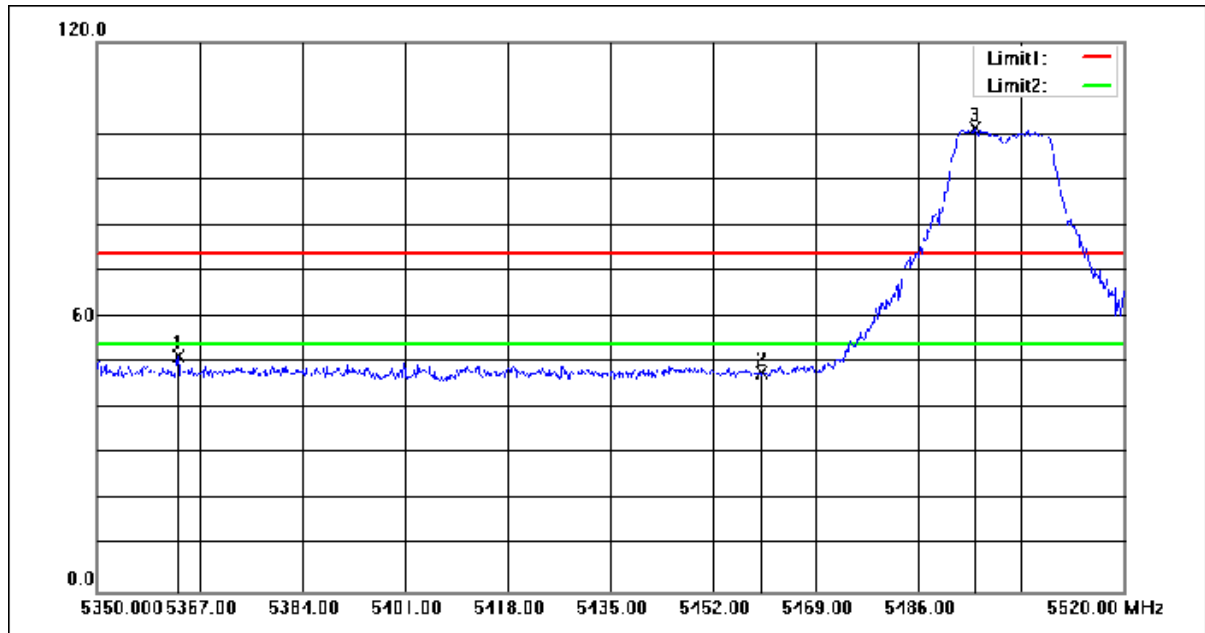
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5298.300	97.97	-1.43	96.54	54.00	42.54	AVG
2	5350.000	50.00	-1.34	48.66	54.00	-5.34	AVG
3	5358.140	49.33	-1.33	48.00	54.00	-6.00	AVG



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



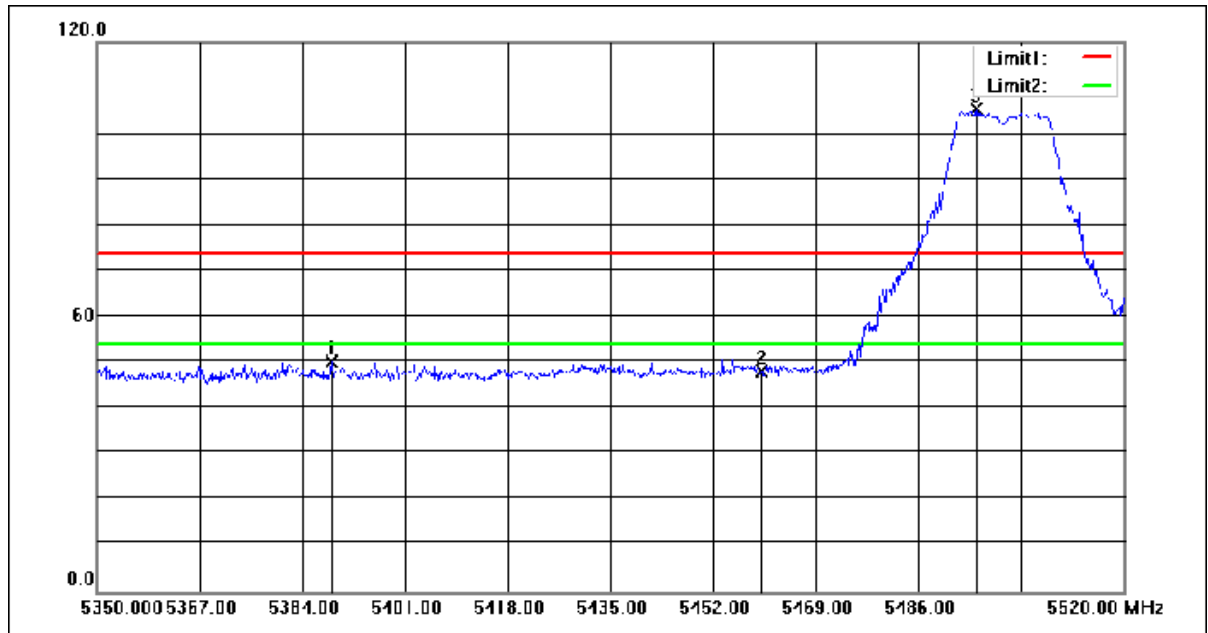
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5363.430	52.75	-1.32	51.43	74.00	-22.57	peak
2	5460.000	49.05	-1.23	47.82	74.00	-26.18	peak
3	5495.350	102.51	-1.23	101.28	74.00	27.28	peak



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



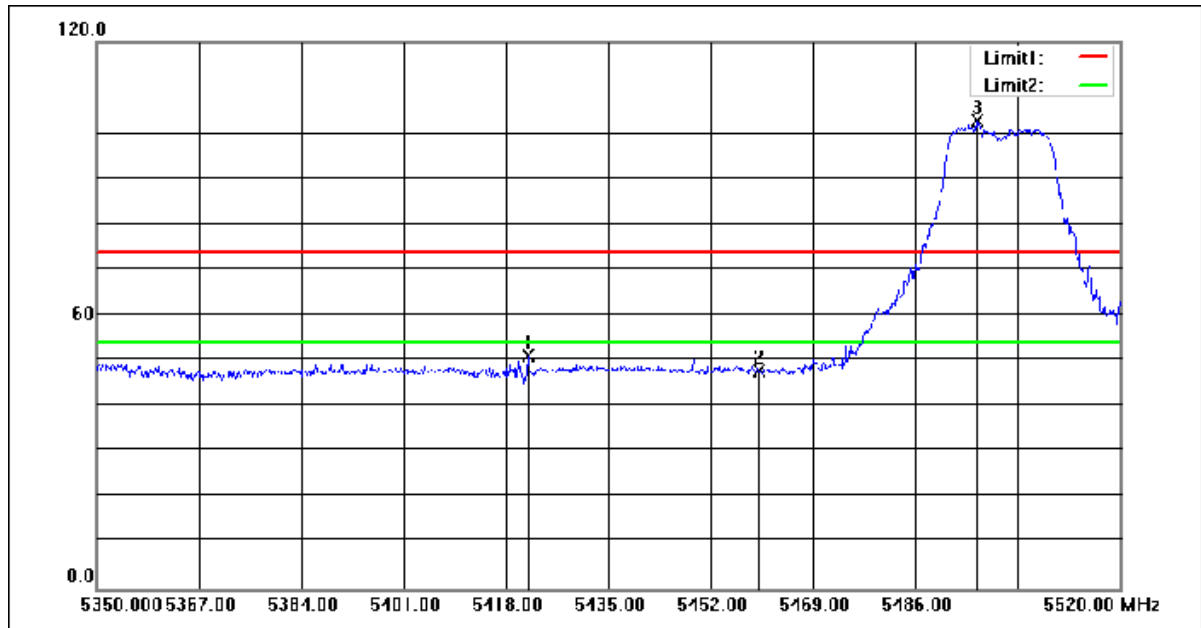
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5388.760	51.53	-1.28	50.25	74.00	-23.75	peak
2	5460.000	49.53	-1.23	48.30	74.00	-25.70	peak
3	5495.520	106.78	-1.23	105.55	74.00	31.55	peak



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



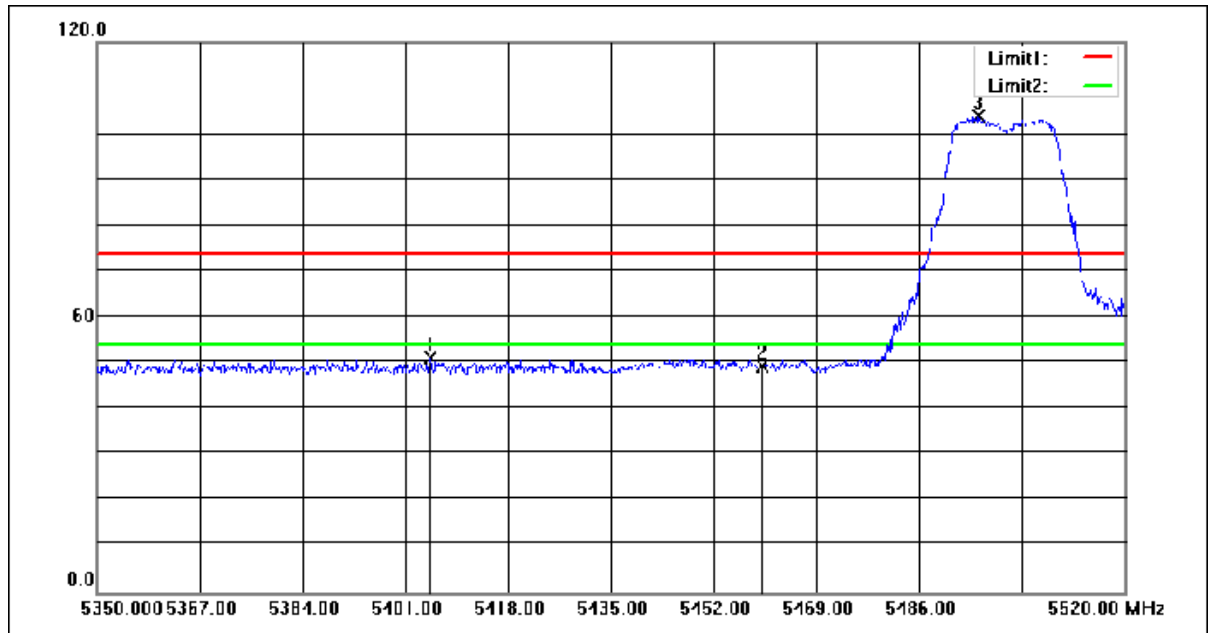
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5421.740	52.26	-1.25	51.01	74.00	-22.99	peak
2	5460.000	48.98	-1.23	47.75	74.00	-26.25	peak
3	5496.200	103.90	-1.23	102.67	74.00	28.67	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5405.250	52.28	-1.26	51.02	74.00	-22.98	peak
2	5460.000	50.64	-1.23	49.41	74.00	-24.59	peak
3	5495.860	105.22	-1.23	103.99	74.00	29.99	peak

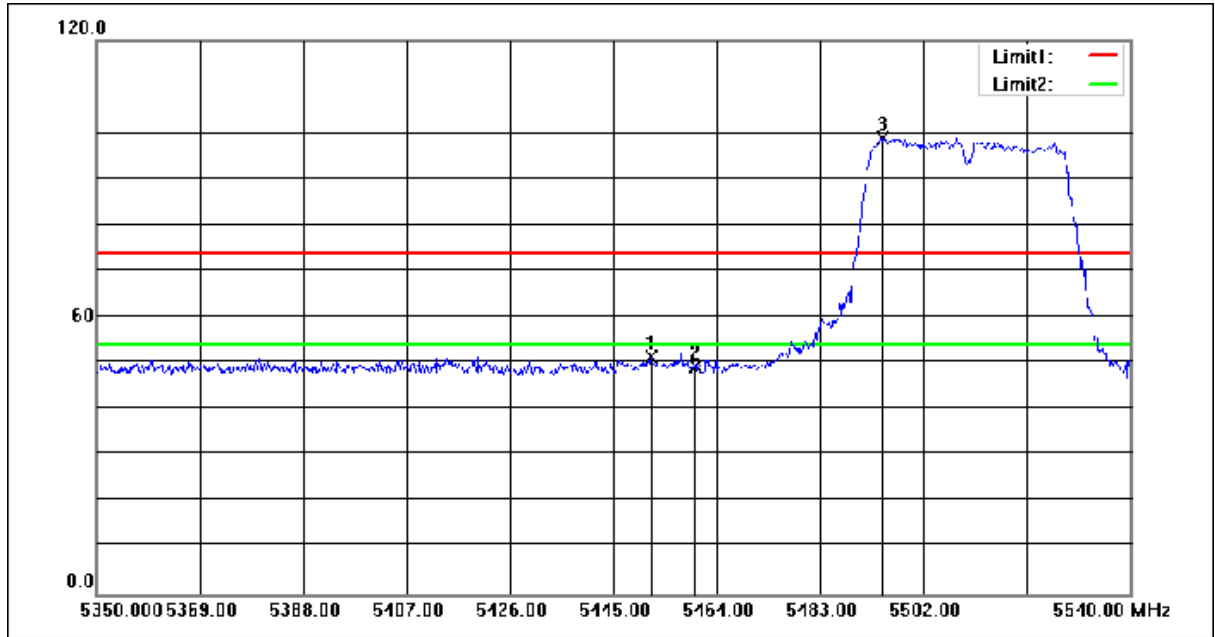


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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



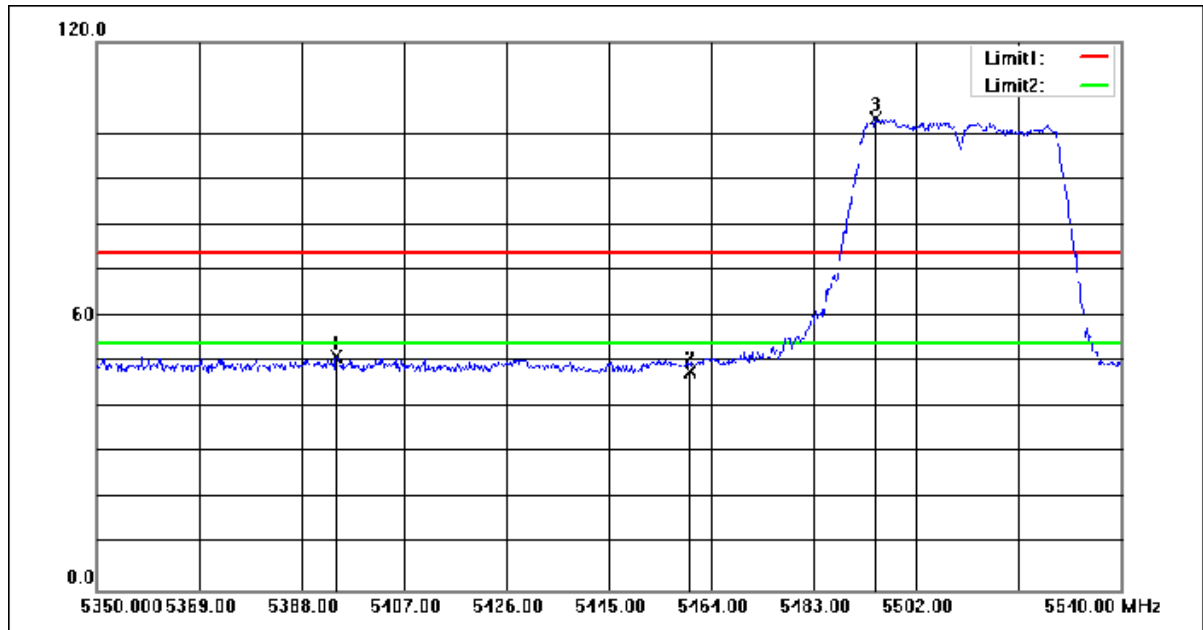
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5451.840	52.64	-1.24	51.40	74.00	-22.60	peak
2	5460.000	50.68	-1.23	49.45	74.00	-24.55	peak
3	5494.590	100.18	-1.23	98.95	74.00	24.95	peak



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



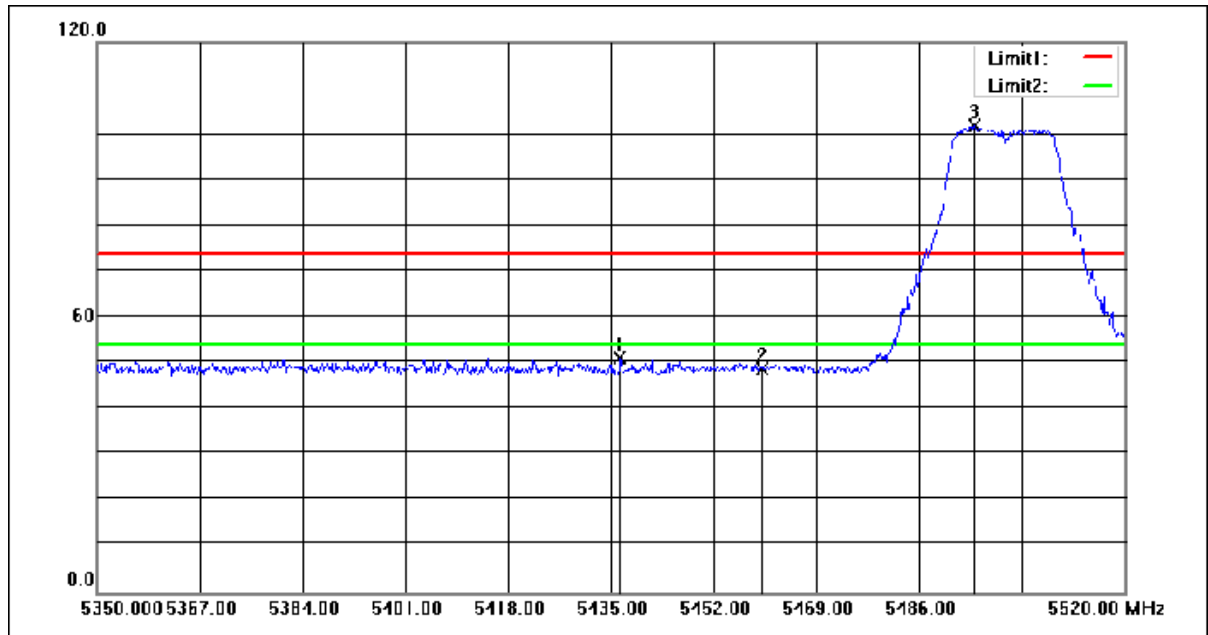
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5394.460	52.39	-1.27	51.12	74.00	-22.88	peak
2	5460.000	49.23	-1.23	48.00	74.00	-26.00	peak
3	5494.590	104.44	-1.23	103.21	74.00	29.21	peak



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



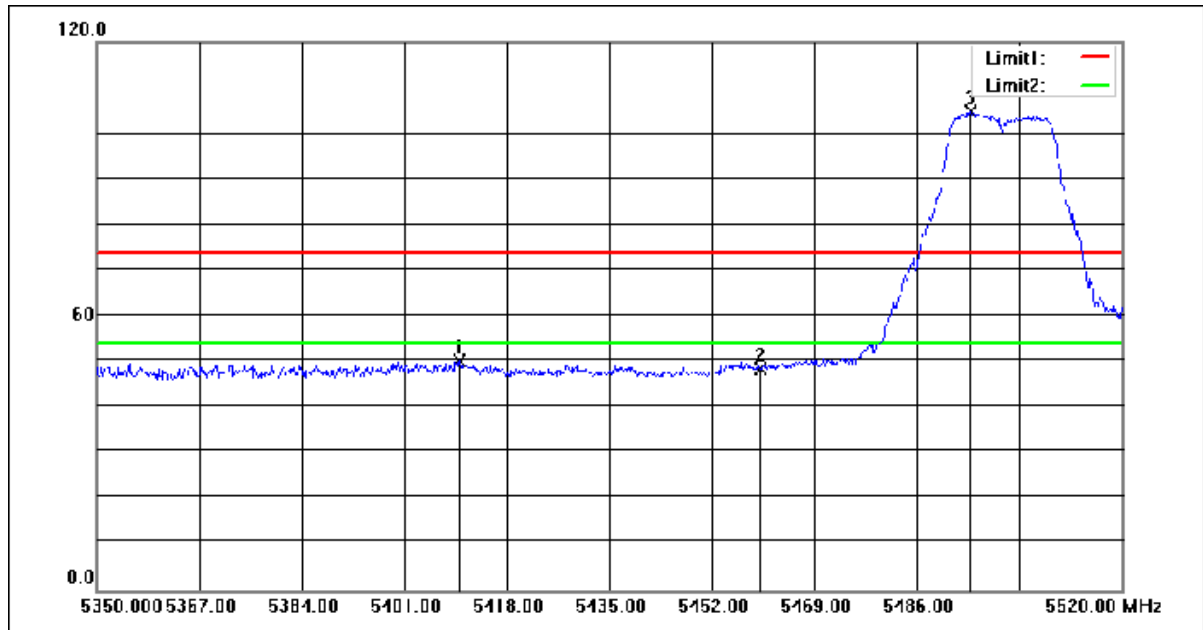
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5436.530	52.35	-1.25	51.10	74.00	-22.90	peak
2	5460.000	50.02	-1.23	48.79	74.00	-25.21	peak
3	5495.180	103.12	-1.23	101.89	74.00	27.89	peak



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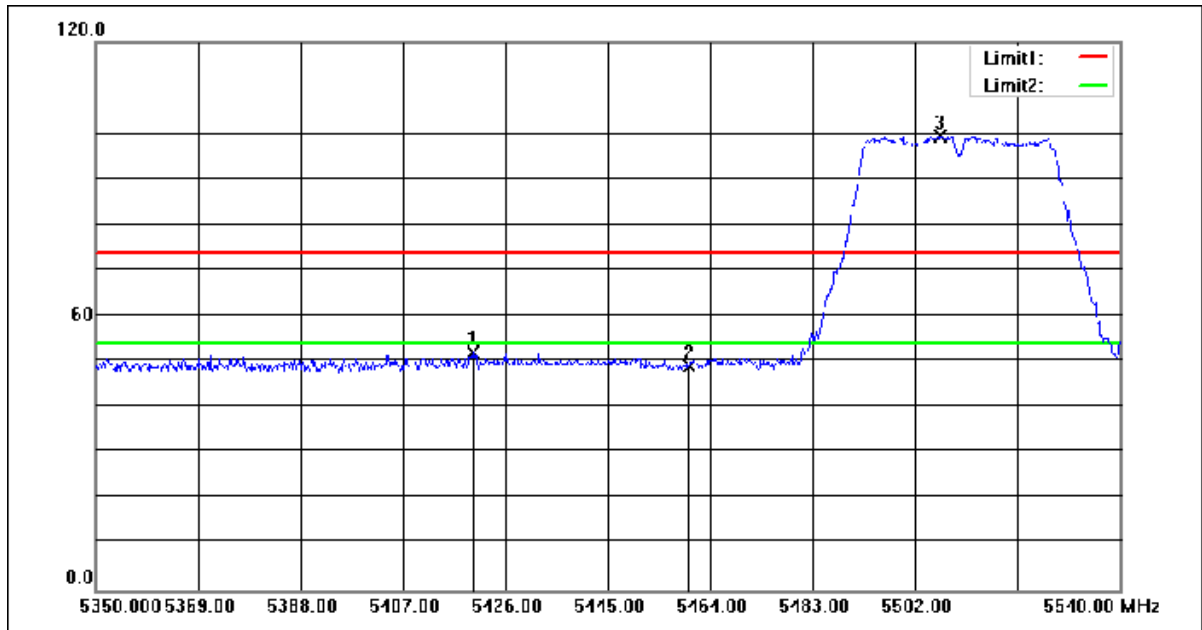
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5410.180	51.53	-1.26	50.27	74.00	-23.73	peak
2	5460.000	49.70	-1.23	48.47	74.00	-25.53	peak
3	5495.010	105.99	-1.23	104.76	74.00	30.76	peak



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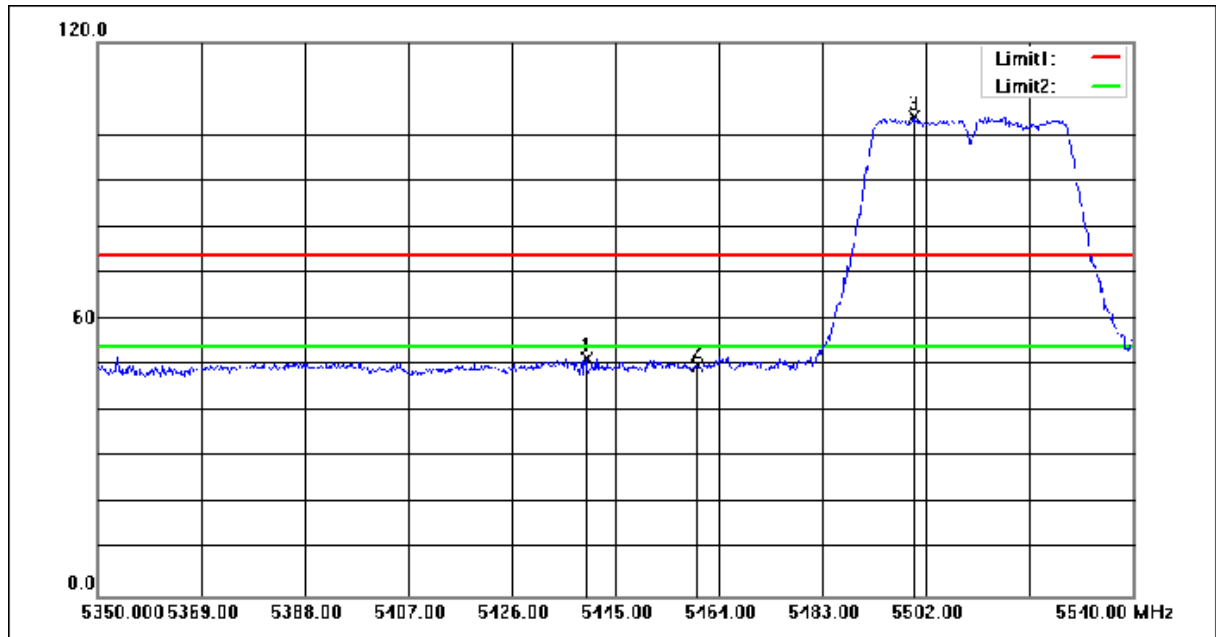
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5419.920	53.34	-1.26	52.08	74.00	-21.92	peak
2	5460.000	50.14	-1.23	48.91	74.00	-25.09	peak
3	5506.750	100.63	-1.22	99.41	74.00	25.41	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5439.680	52.62	-1.25	51.37	74.00	-22.63	peak
2	5460.000	51.17	-1.23	49.94	74.00	-24.06	peak
3	5499.720	105.15	-1.23	103.92	74.00	29.92	peak

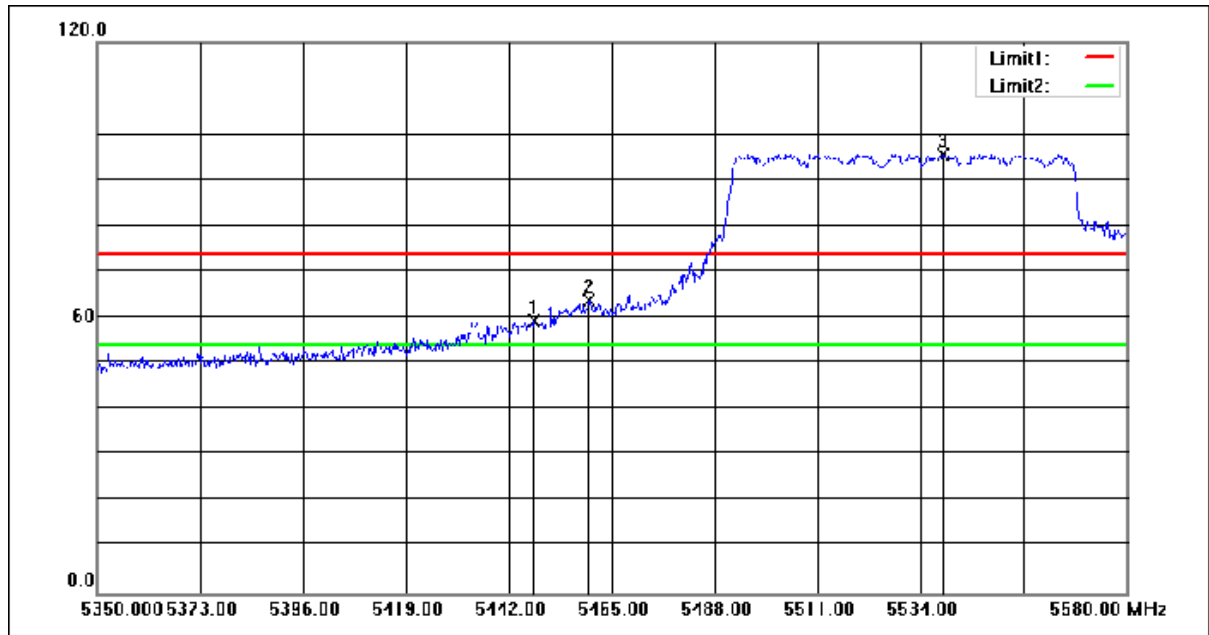


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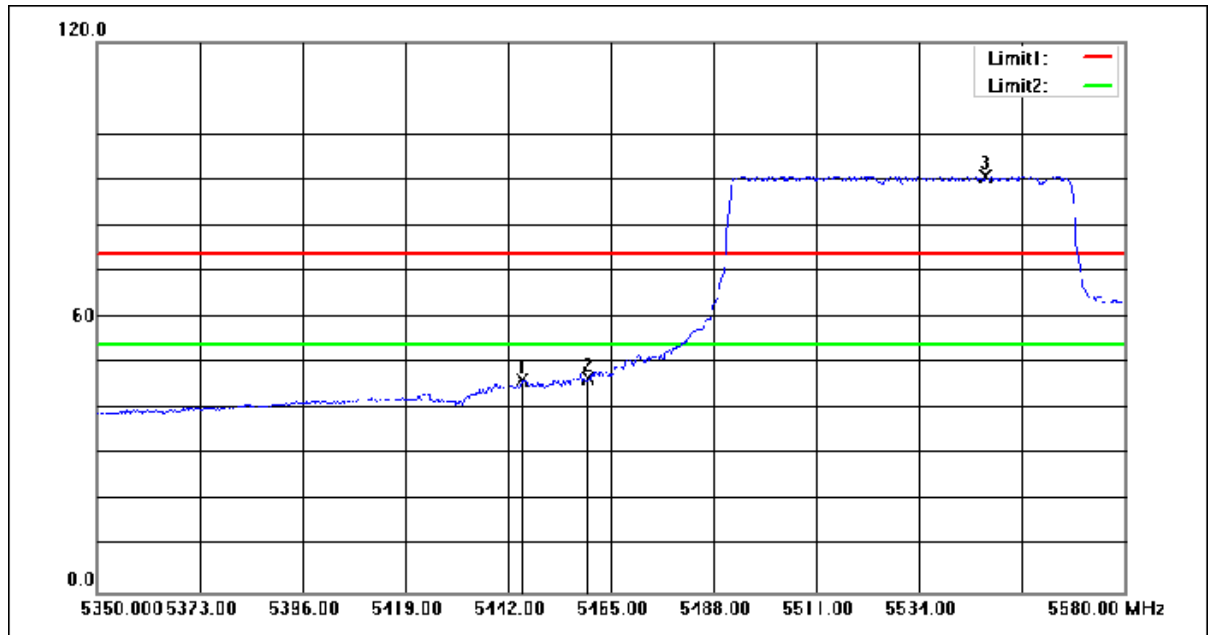
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5447.520	60.48	-1.25	59.23	74.00	-14.77	peak
2	5460.000	65.04	-1.23	63.81	74.00	-10.19	peak
3	5539.060	96.72	-1.22	95.50	74.00	21.50	peak



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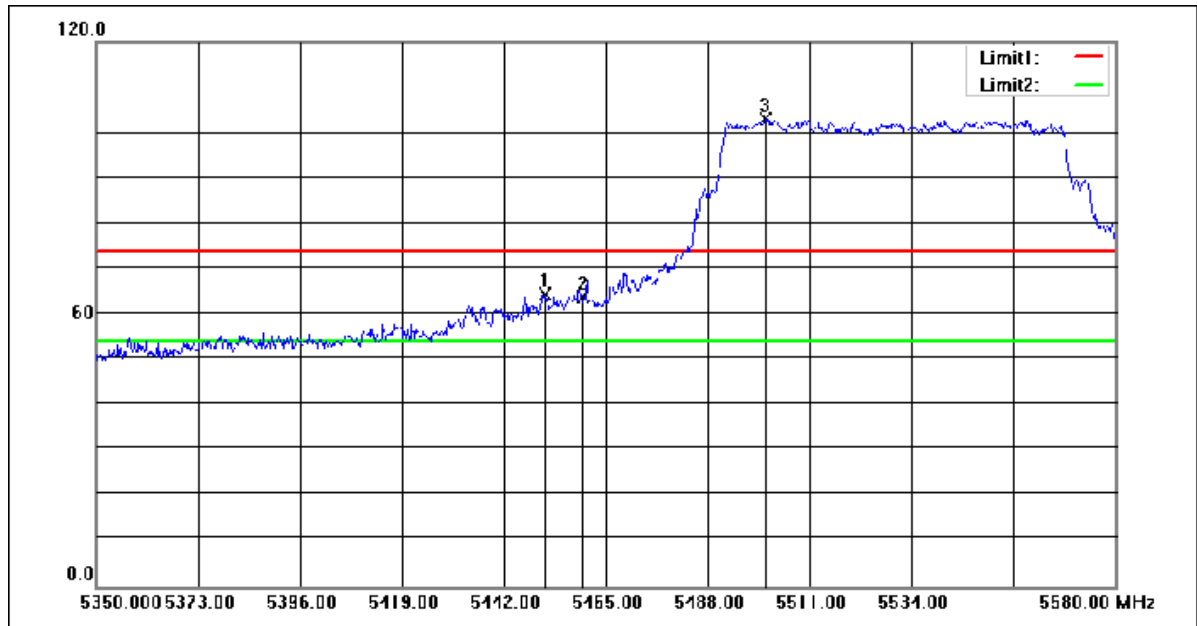
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5445.220	47.57	-1.25	46.32	54.00	-7.68	AVG
2	5460.000	47.79	-1.23	46.56	54.00	-7.44	AVG
3	5548.720	91.99	-1.21	90.78	54.00	36.78	AVG



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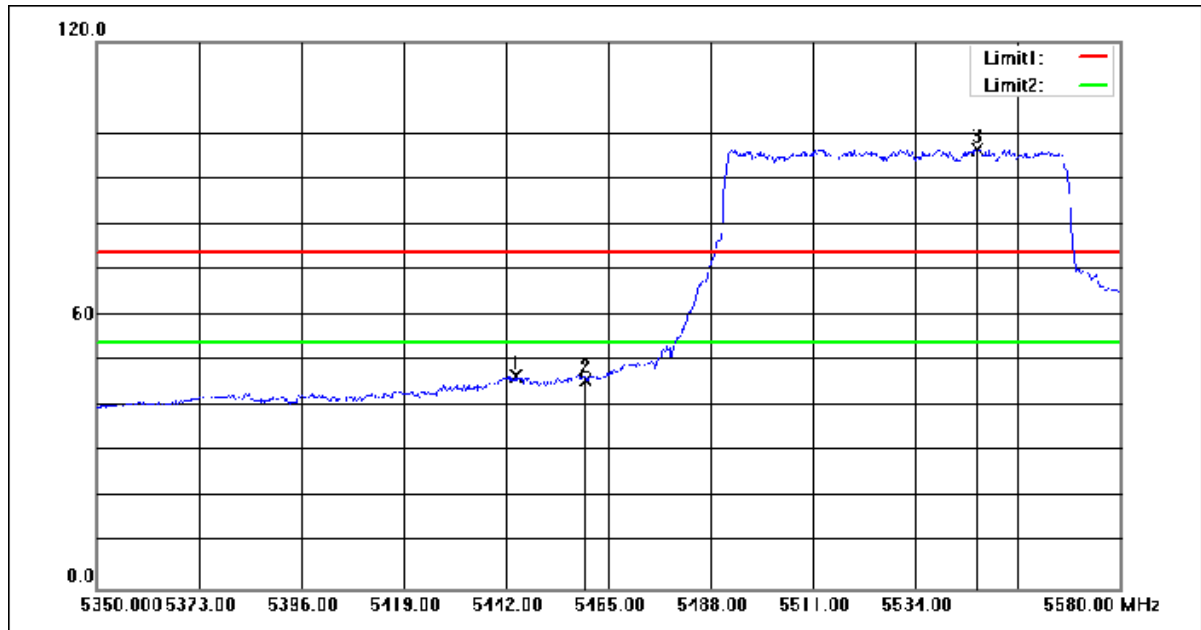
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5451.200	65.44	-1.24	64.20	74.00	-9.80	peak
2	5460.000	64.98	-1.23	63.75	74.00	-10.25	peak
3	5501.110	104.36	-1.22	103.14	74.00	29.14	peak



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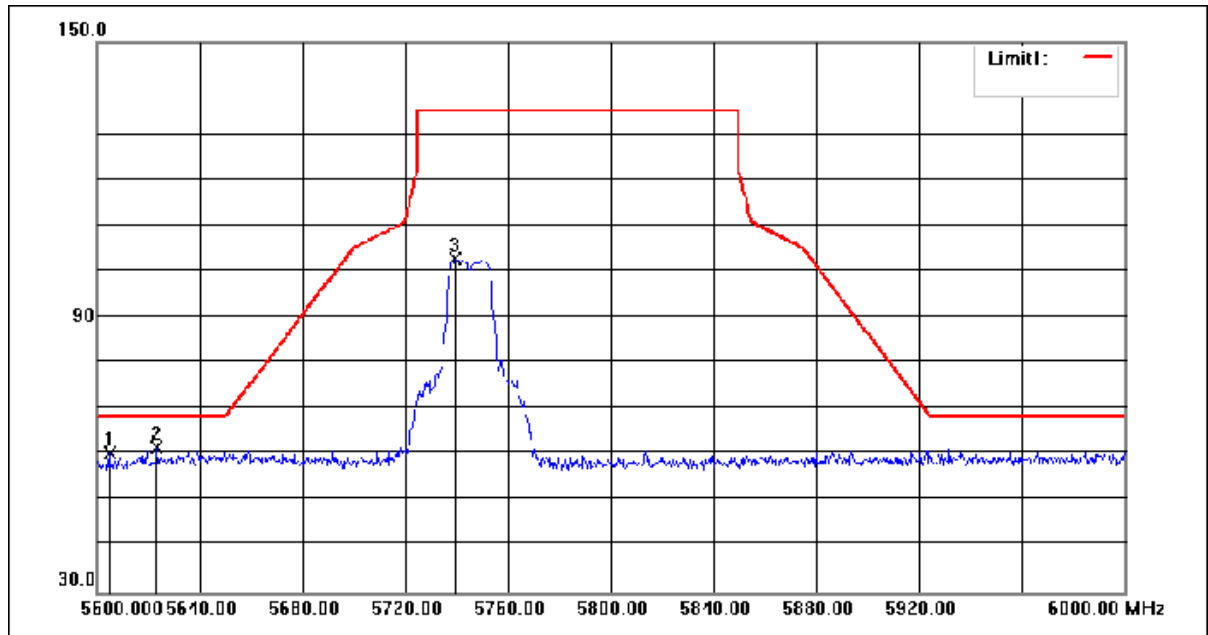
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5444.300	47.84	-1.25	46.59	54.00	-7.41	AVG
2	5460.000	47.07	-1.23	45.84	54.00	-8.16	AVG
3	5547.800	97.68	-1.21	96.47	54.00	42.47	AVG



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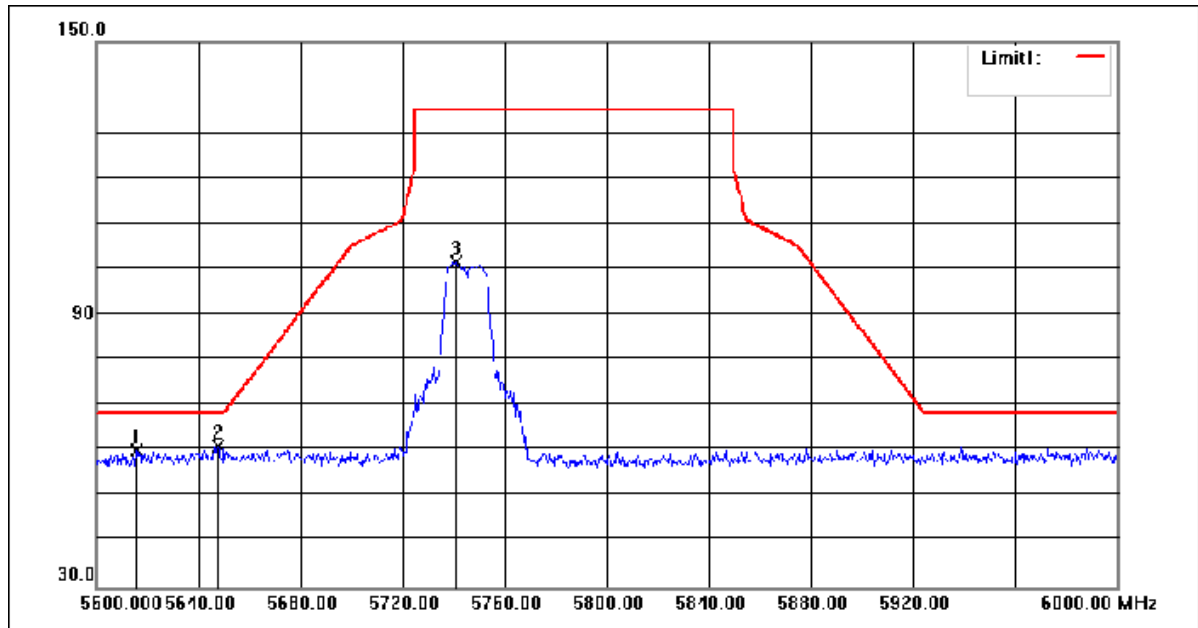
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5604.800	60.75	-0.25	60.50	68.20	-7.70	peak
2	5623.200	61.79	-0.23	61.56	68.20	-6.64	peak
3	5739.600	102.86	-0.05	102.81	135.00	-32.19	peak



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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5615.600	60.44	-0.24	60.20	68.20	-8.00	peak
2	5647.600	61.22	-0.19	61.03	68.20	-7.17	peak
3	5741.200	101.54	-0.05	101.49	135.00	-33.51	peak

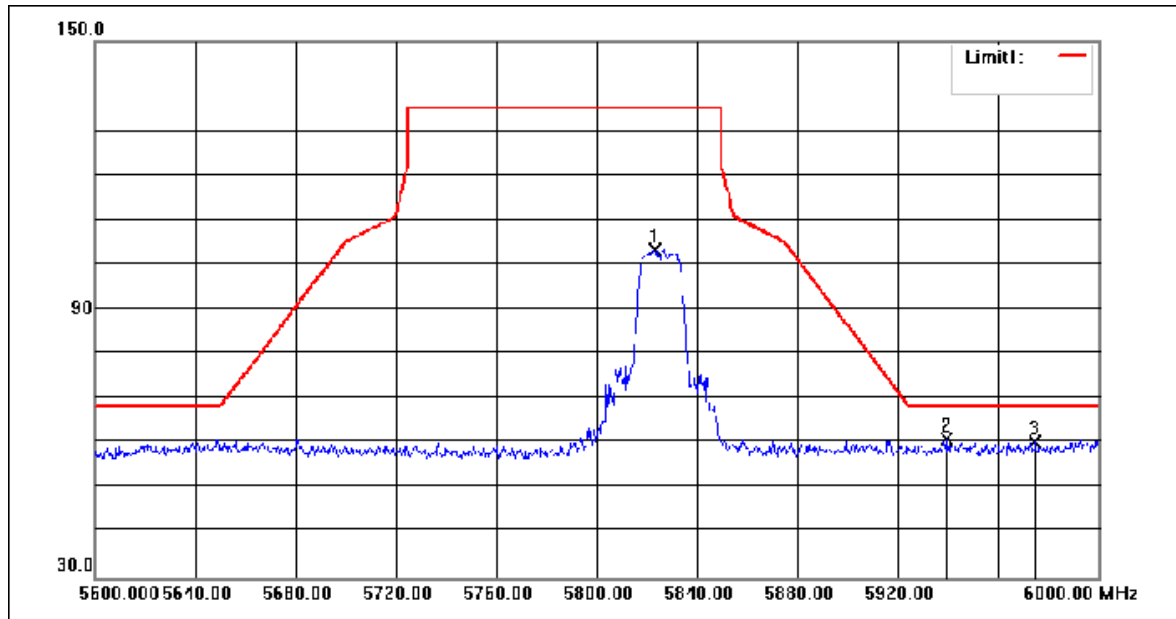


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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



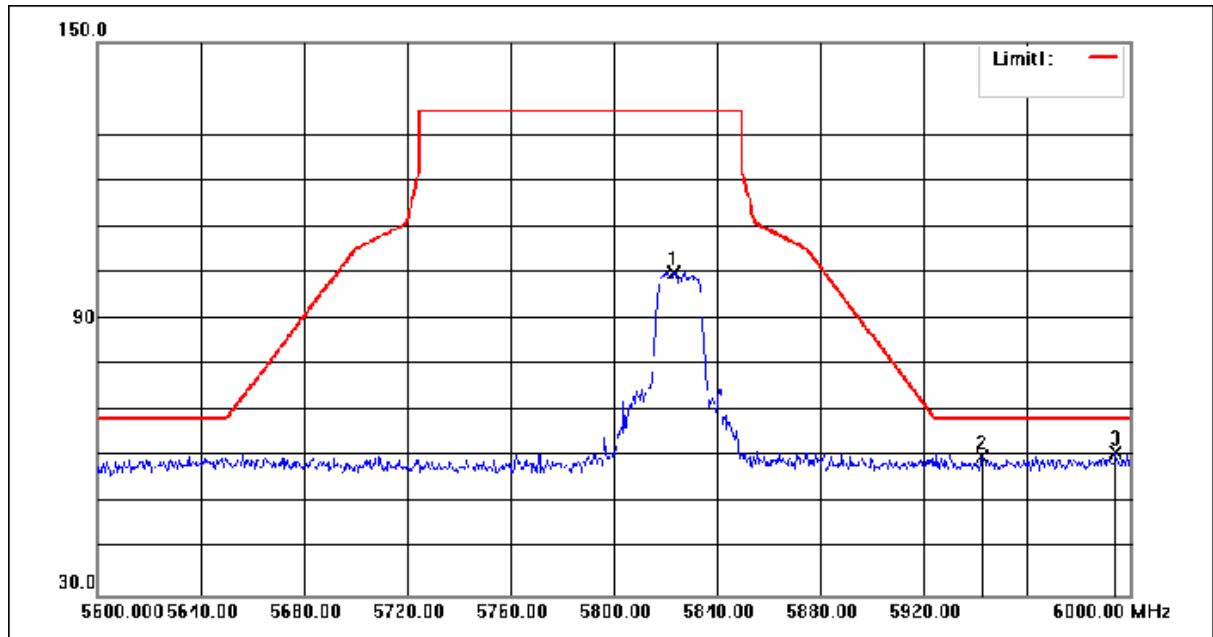
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5823.200	103.06	0.20	103.26	135.00	-31.74	peak
2	5939.600	59.96	1.06	61.02	68.20	-7.18	peak
3	5974.800	59.10	1.31	60.41	68.20	-7.79	peak



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



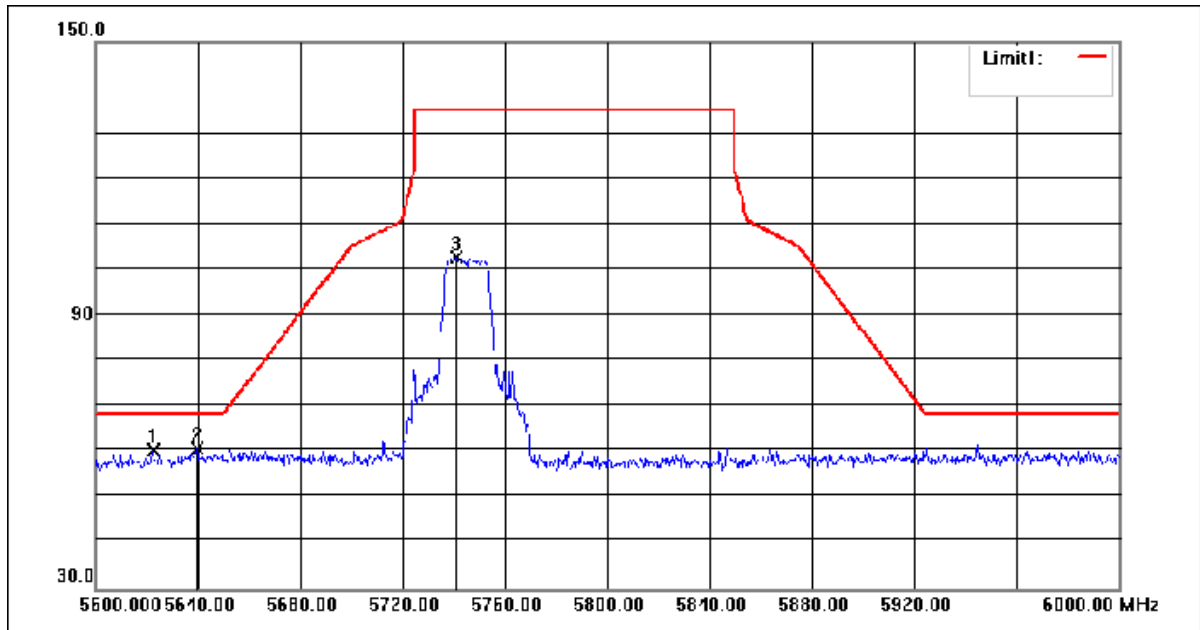
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5823.200	99.89	0.20	100.09	135.00	-34.91	peak
2	5942.800	59.22	1.08	60.30	68.20	-7.90	peak
3	5994.400	59.55	1.46	61.01	68.20	-7.19	peak



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



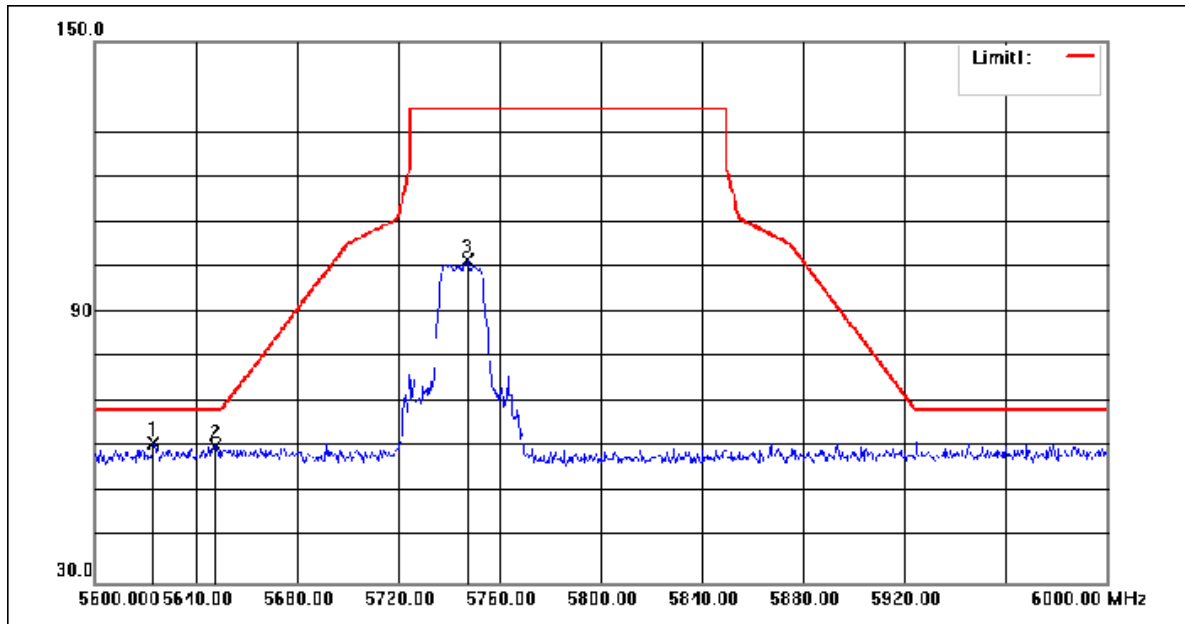
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5622.400	60.81	-0.23	60.58	68.20	-7.62	peak
2	5639.600	60.98	-0.20	60.78	68.20	-7.42	peak
3	5741.200	102.74	-0.05	102.69	135.00	-32.31	peak



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



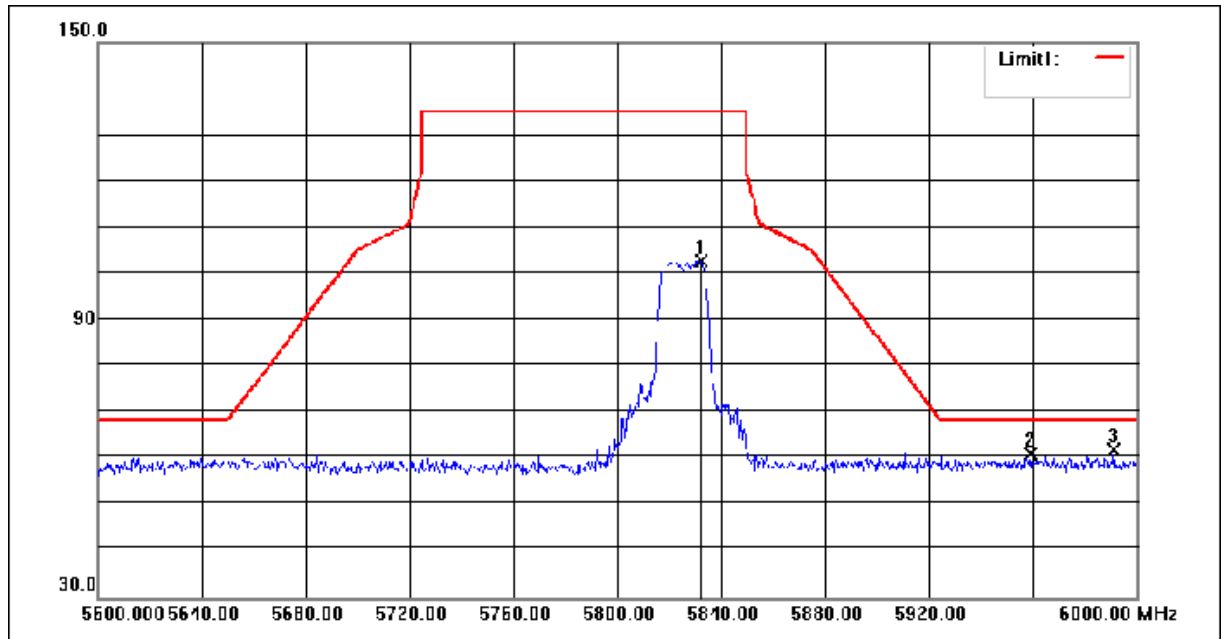
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5623.200	61.29	-0.23	61.06	68.20	-7.14	peak
2	5647.600	60.76	-0.19	60.57	68.20	-7.63	peak
3	5747.600	101.63	-0.04	101.59	135.00	-33.41	peak



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



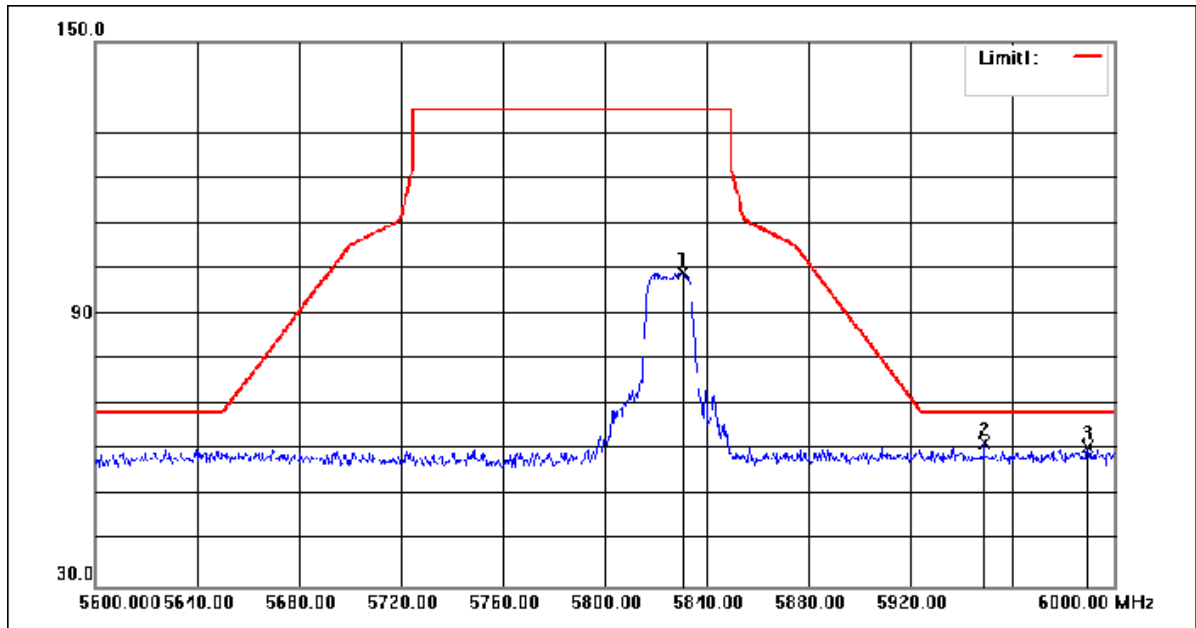
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5832.400	102.51	0.27	102.78	135.00	-32.22	peak
2	5959.200	59.79	1.20	60.99	68.20	-7.21	peak
3	5991.200	60.61	1.44	62.05	68.20	-6.15	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5830.800	98.99	0.26	99.25	135.00	-35.75	peak
2	5948.800	60.43	1.12	61.55	68.20	-6.65	peak
3	5989.600	59.47	1.42	60.89	68.20	-7.31	peak

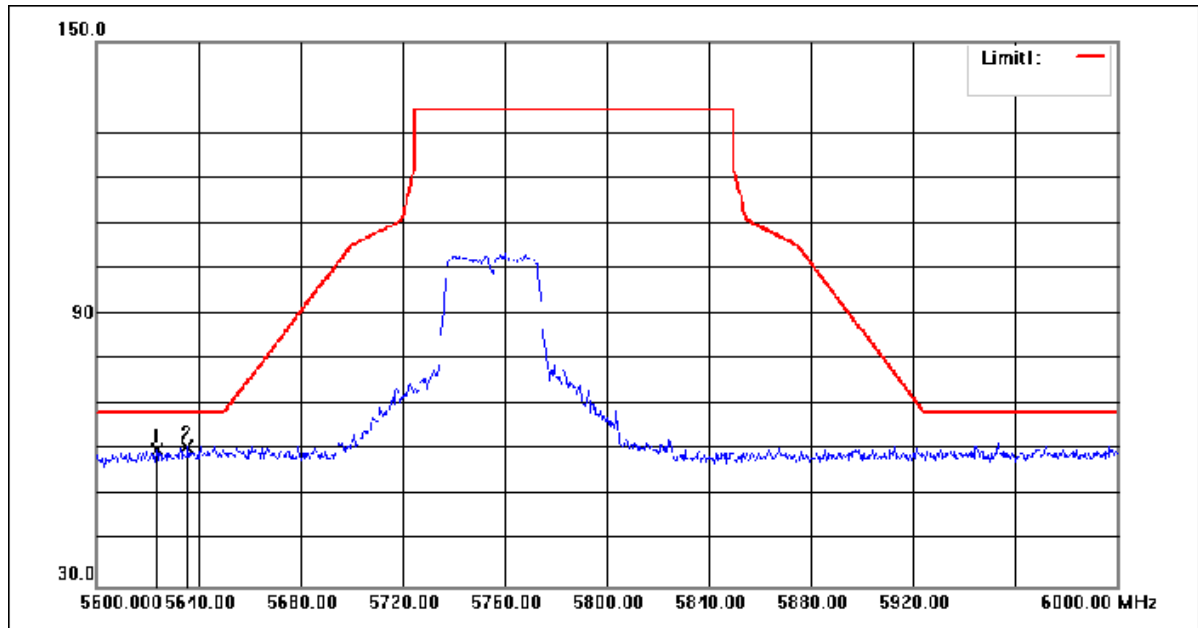


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



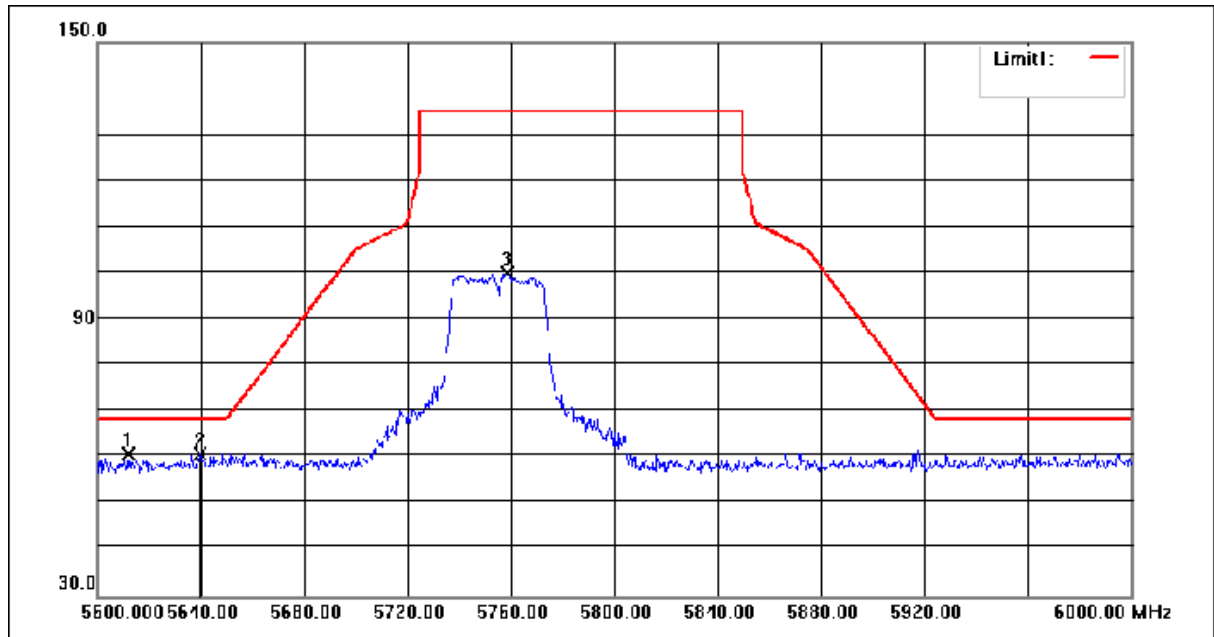
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5623.600	60.27	-0.22	60.05	68.20	-8.15	peak
2	5635.600	61.03	-0.21	60.82	68.20	-7.38	peak



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



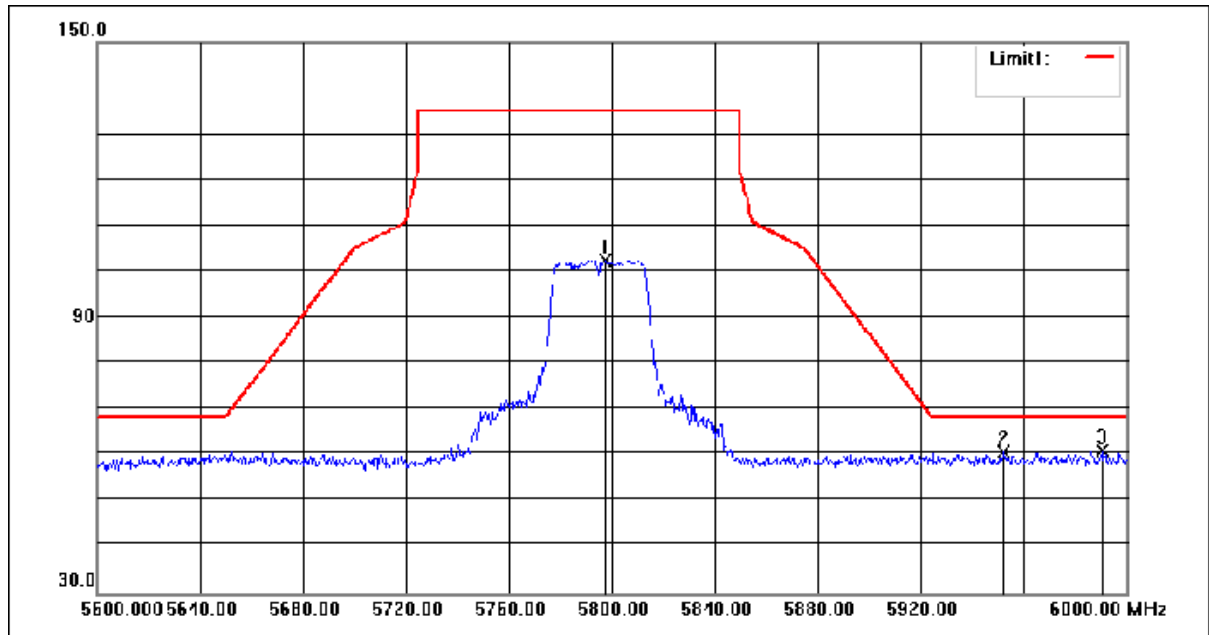
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5612.000	60.92	-0.24	60.68	68.20	-7.52	peak
2	5639.600	60.96	-0.20	60.76	68.20	-7.44	peak
3	5758.400	100.01	-0.03	99.98	135.00	-35.02	peak



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



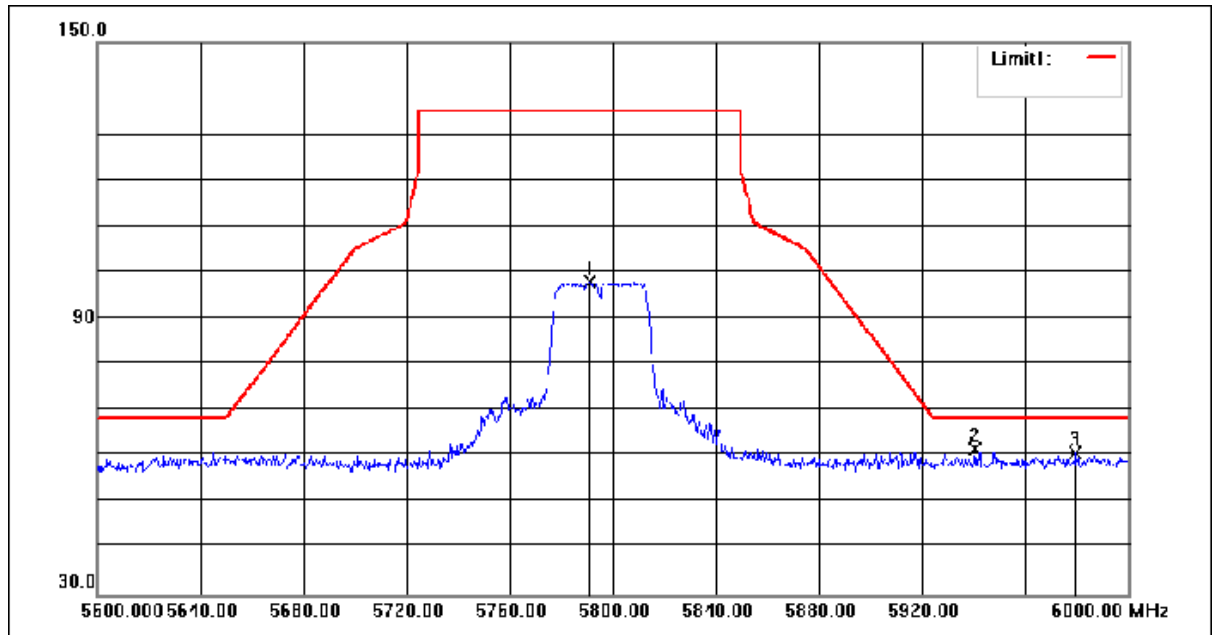
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5797.600	102.45	0.03	102.48	135.00	-32.52	peak
2	5952.400	59.59	1.15	60.74	68.20	-7.46	peak
3	5990.400	59.49	1.43	60.92	68.20	-7.28	peak



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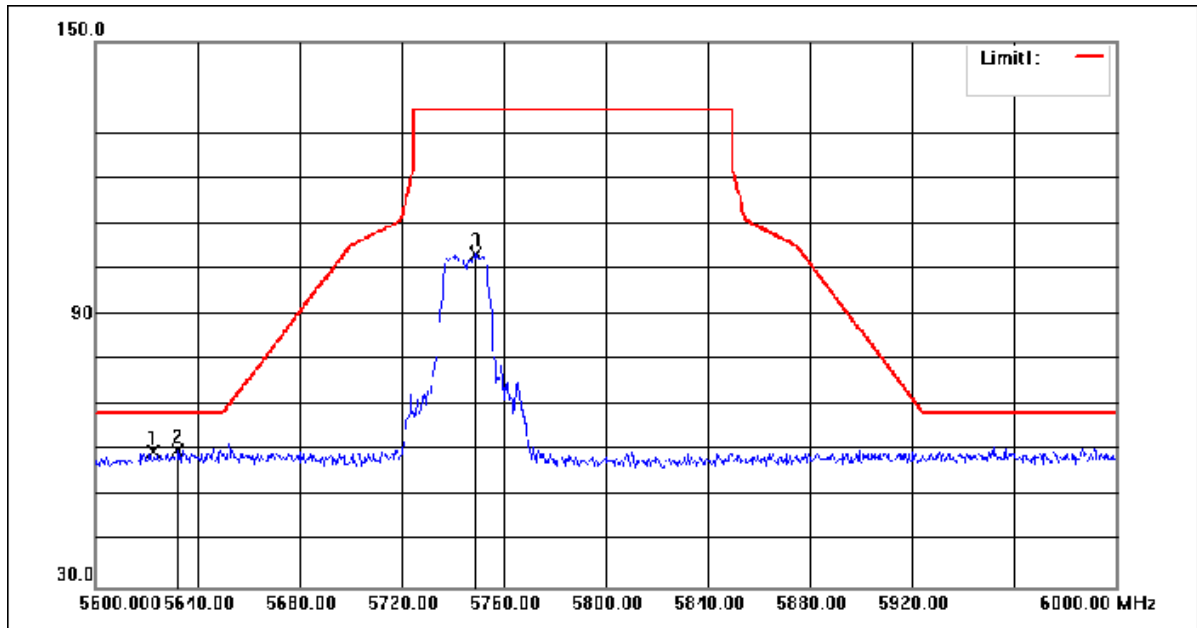
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5791.200	97.93	0.02	97.95	135.00	-37.05	peak
2	5940.400	60.55	1.06	61.61	68.20	-6.59	peak
3	5979.600	59.34	1.35	60.69	68.20	-7.51	peak



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



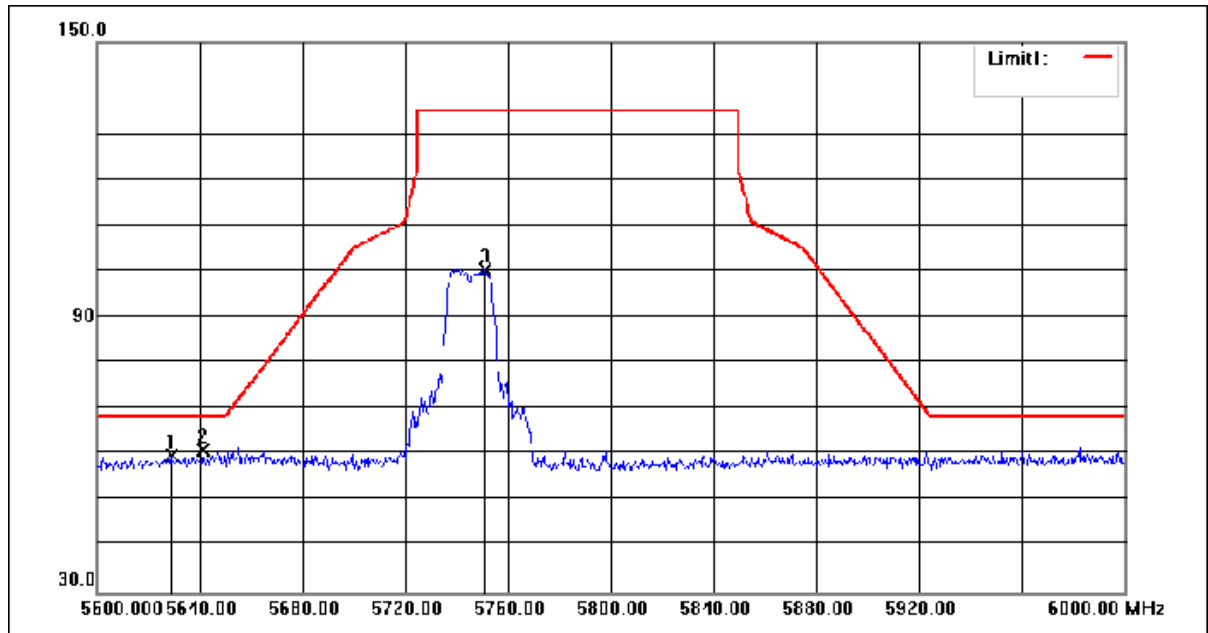
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5622.800	59.93	-0.23	59.70	68.20	-8.50	peak
2	5632.400	60.40	-0.21	60.19	68.20	-8.01	peak
3	5749.200	103.49	-0.04	103.45	135.00	-31.55	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5628.800	60.20	-0.22	59.98	68.20	-8.22	peak
2	5641.200	61.17	-0.20	60.97	68.20	-7.23	peak
3	5751.200	100.47	-0.04	100.43	135.00	-34.57	peak

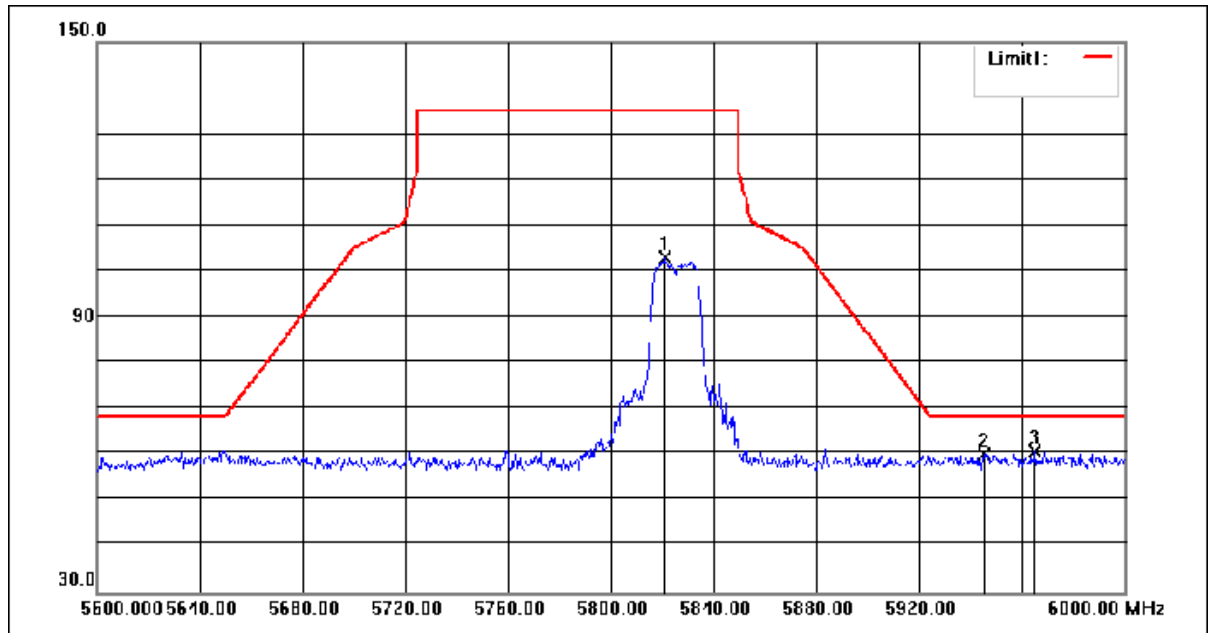


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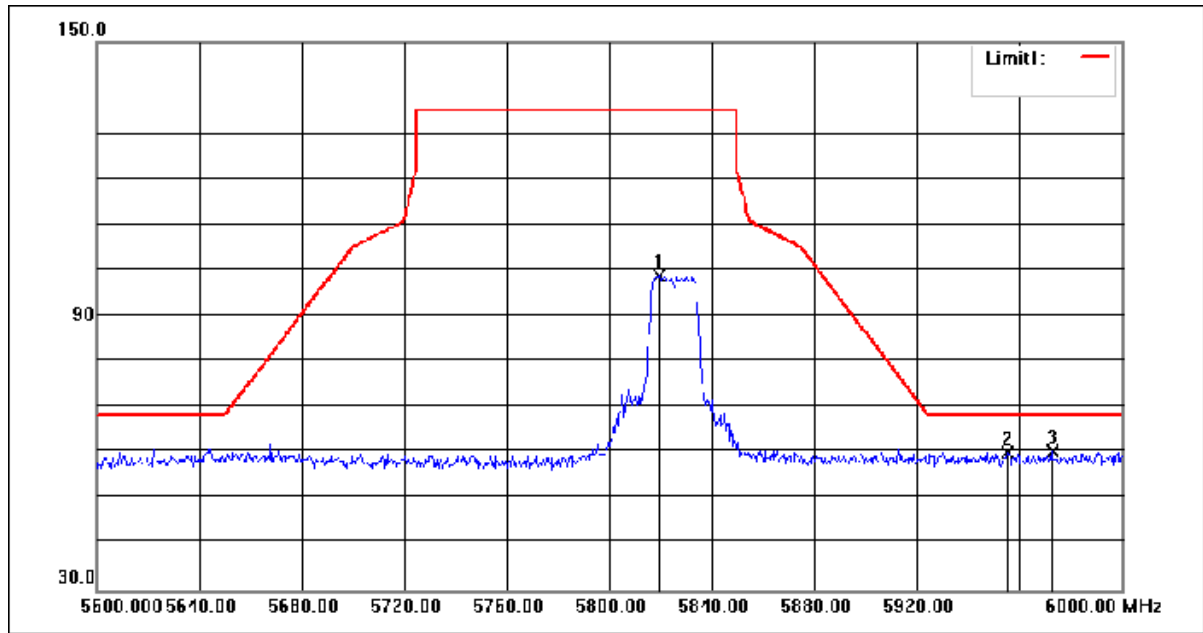
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1	5820.800	102.76	0.18	102.94	135.00	-32.06	peak
2	5945.200	59.09	1.10	60.19	68.20	-8.01	peak
3	5965.200	59.49	1.24	60.73	68.20	-7.47	peak



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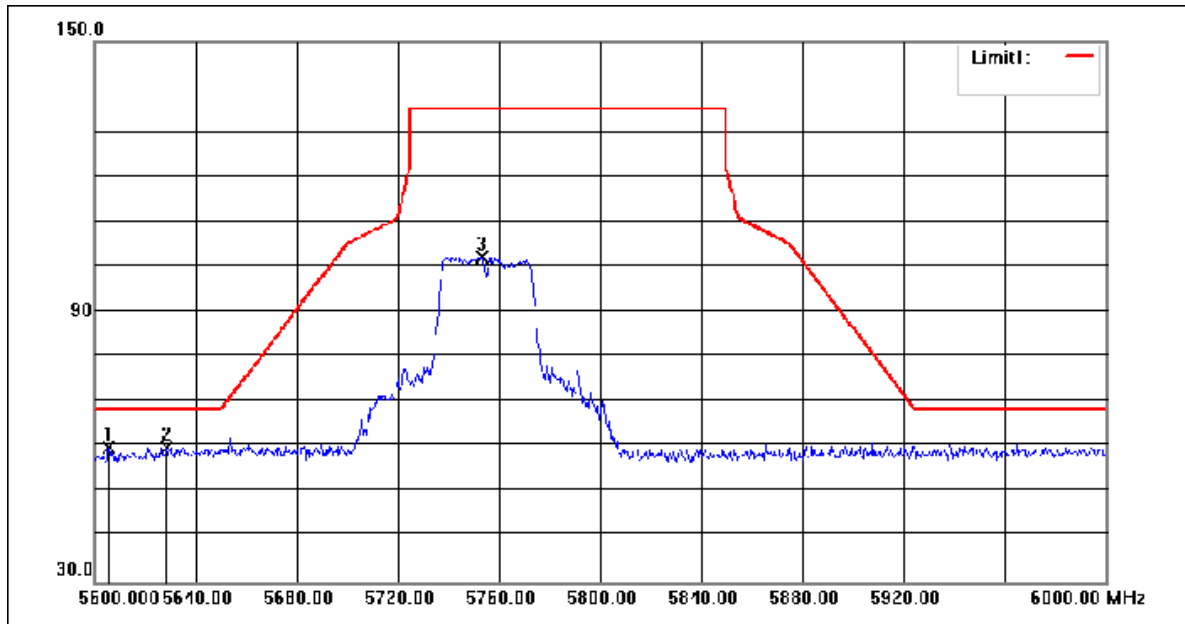
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5819.600	98.65	0.17	98.82	135.00	-36.18	peak
2	5955.200	58.95	1.17	60.12	68.20	-8.08	peak
3	5972.800	59.21	1.30	60.51	68.20	-7.69	peak



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



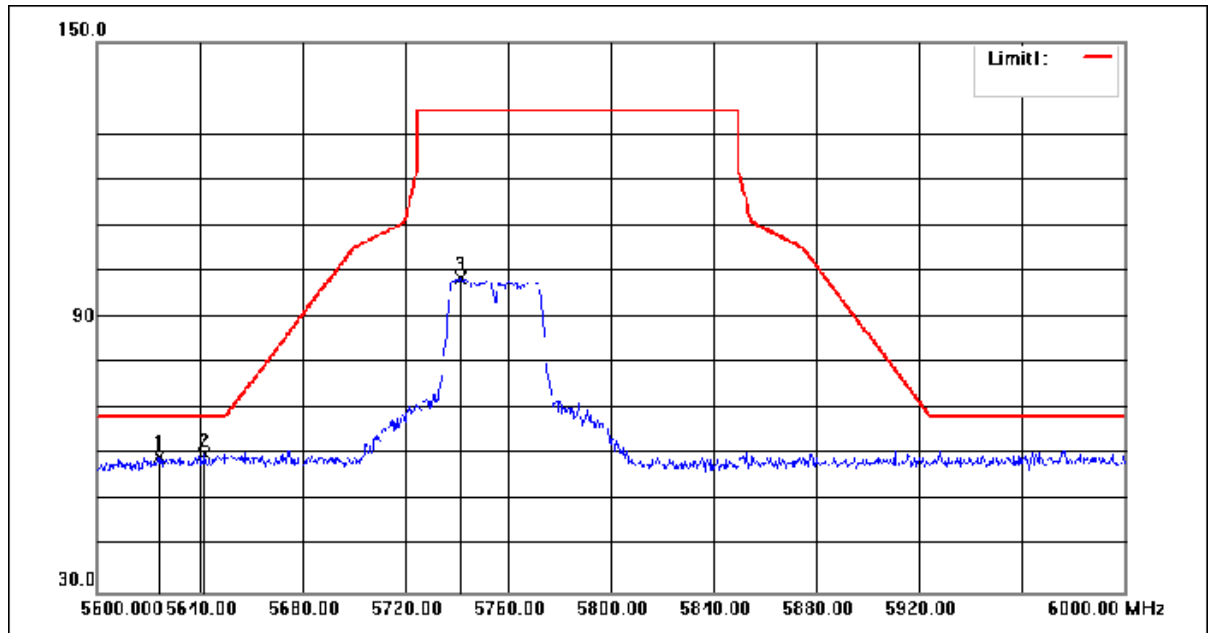
No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	5605.600	60.05	-0.25	59.80	68.20	-8.40	peak
2	5628.400	60.14	-0.22	59.92	68.20	-8.28	peak
3	5753.200	102.33	-0.04	102.29	135.00	-32.71	peak



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



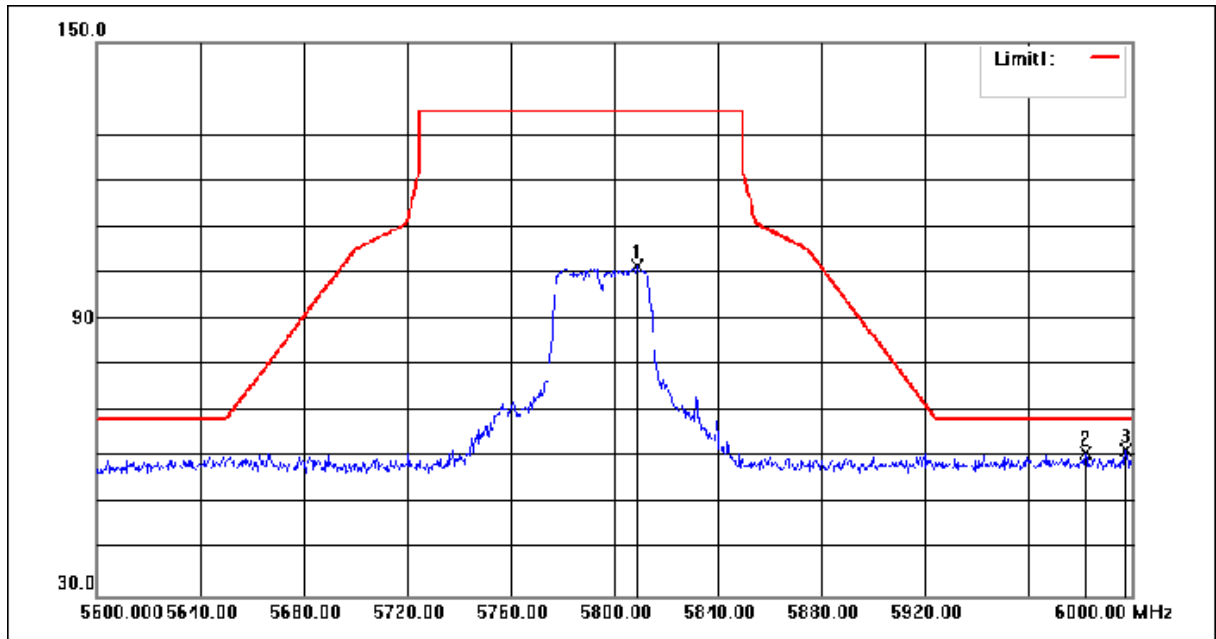
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5624.400	59.78	-0.22	59.56	68.20	-8.64	peak
2	5642.000	60.44	-0.20	60.24	68.20	-7.96	peak
3	5741.600	98.56	-0.05	98.51	135.00	-36.49	peak



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



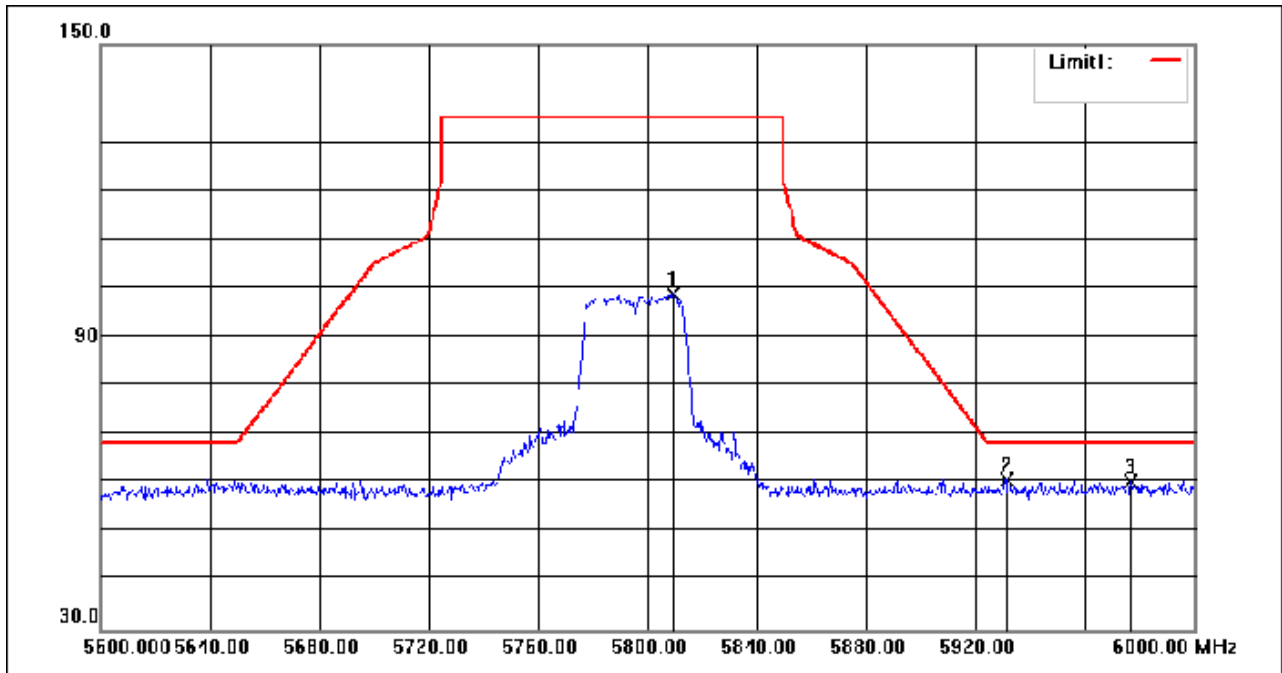
No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5808.800	101.37	0.09	101.46	135.00	-33.54	peak
2	5982.000	59.63	1.37	61.00	68.20	-7.20	peak
3	5997.600	60.03	1.48	61.51	68.20	-6.69	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor( )	Result ( )	Limit ( )	Margin (dB)	Remark
1	5809.200	98.63	0.10	98.73	135.00	-36.27	peak
2	5931.200	59.88	0.99	60.87	68.20	-7.33	peak
3	5976.800	59.14	1.33	60.47	68.20	-7.73	peak



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### 7.10 Frequency Stability

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

#### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1006 mbar

Test mode: b:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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

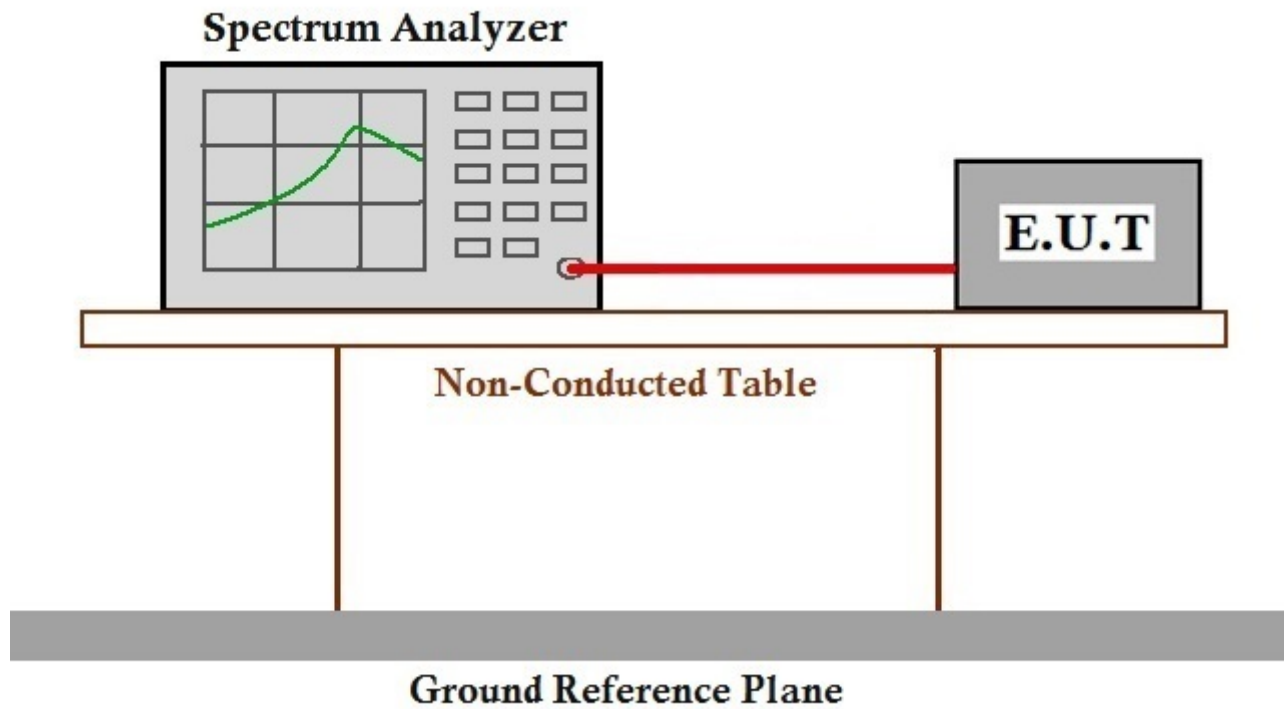
d:TX mode (Band 2C)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the 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)\_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 SHEM210600565402



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## 8 Test Setup Photographs

Refer to the < Test Setup photos-FCC >.

## 9 EUT Constructional Details

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

- End of the Report -



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