

TEST REPORT

Application No.: SHEM2009007379CR
FCC ID: 2ARYN-LUCY
Applicant: Shenzhen Trifo Technology Co.,Ltd.
Address of Applicant: Room 201, Building A, No.1, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China
Manufacturer: Shenzhen Trifo Technology Co.,Ltd.
Address of Manufacturer: Room 201, Building A, No.1, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China
Factory: Flextronics computing (Suzhou) Co., Ltd
Address of Factory: No.1 Guanpu Road, Guoxiang Street, WuZhong District, Suzhou, Jiangsu, China
Equipment Under Test (EUT):
EUT Name: AI Home Robot
Model No.: LUC-S,LUC-P
 Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark: TRIFO
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2020-09-02
Date of Test: 2020-09-09 to 2020-09-29
Date of Issue: 2021-04-28

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

Parlam Zhan

Parlam Zhan
E&E Section 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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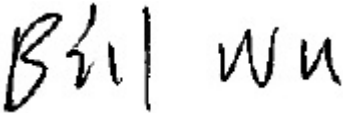
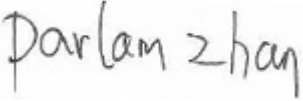


**SGS-CSTC Standards Technical Services
(Shanghai) Co., Ltd.**

Report No.: SHEM200900737903

Page: 2 of 224

Revision Record			
Version	Description	Date	Remark
00	Original	2021-04-28	/

Authorized for issue by:			
			
		Bill Wu / Project Engineer	
			
		Parlam Zhan / Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmitter Power Control	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (h)(1)	Pass
Transmission in the Absence of Data	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.407 (c)	Pass

N/A: Not applicable

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

N/A: Not applicable

Declaration of EUT Family Grouping:

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



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 14.4V 5200mAh rechargeable battery
Charging adapter:
Model: S040QU2000200
Input: 100-240V~50/60Hz
Output: 20V 2000mA
Test voltage: DC 14.4V

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:	Antenna 1: 3dBi Antenna 2: 3dBi Directional gain: 6dBi (Provided by manufacturer)			
Antenna Type:	Antenna 1: PIFA Antenna Antenna 2: PIFA Antenna			





TPC Function:	Not support
DFS Function:	Slaver without radar detection

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	ThinkPad X100e	/
Serial port adapter plate	/	Test Plate 3	/



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4.3 Power level setting using in test:

Test Mode	802.11a		802.11n(HT20)		802.11ac(VHT20)	
Channel	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
36	55	55	53	53	52	52
40	55	55	53	53	52	52
48	55	55	53	53	52	52
52	55	55	53	53	52	52
60	55	55	53	53	52	52
64	55	55	53	53	52	52
100	55	55	53	53	52	52
116	48	48	46	46	45	45
120	48	48	46	46	45	45
140	48	48	46	46	45	45
149	48	48	46	46	45	45
157	48	48	46	46	45	45
165	48	48	46	46	45	45
Test Mode	802.11n(HT40)		802.11ac(VHT40)			
Channel	Ant 1	Ant 2	Ant 1	Ant 2		
38	55	55	53	53		
46	55	55	53	53		
54	55	55	53	53		
62	55	55	53	53		
102	48	48	47	47		
110	48	48	47	47		
118	48	48	47	47		
134	48	48	47	47		
151	48	48	47	47		
159	48	48	47	47		
Test Mode	802.ac(VHT80)					
Channel	Ant1	Ant 2				
42	53	53				
58	53	53				
106	50	50				
122	50	50				
155	50	50				



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4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.1dB (Below 1GHz)
		4.9dB (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:

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588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

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Fax: +86 21 6191 5678

No tests were sub-contracted.

4.6 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. 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. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized by Federal Communications Commission (FCC) as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

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- **VCCI (Member No.: 3061)**

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4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2019-12-20	2020-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2020-08-13	2021-08-12
Signal Generator	R&S	SMR20	SHEM006-1	2020-08-13	2021-08-12
Signal Generator	Agilent	N5182A	SHEM182-1	2020-08-13	2021-08-12
Communication Tester	R&S	CMW270	SHEM183-1	2020-08-13	2021-08-12
Switcher	Tonscend	JS0806	SHEM184-1	2020-08-13	2021-08-12
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2020-08-13	2021-08-12
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2018-09-25	2021-09-24
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2019-12-20	2020-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2019-12-20	2020-12-19
Conducted test Cable	/	RF01~RF04	/	2019-12-20	2020-12-19
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2019-12-20	2020-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2019-12-20	2020-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2019-12-20	2020-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2019-10-14	2021-10-13
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2019-04-30	2021-04-29
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2018-10-24	2021-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2019-10-14	2021-10-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2018-10-31	2021-10-30
Pre-amplifier (9kHz-2GHz)	CLAVIO	BDLNA-0001	SHEM164-1	2020-08-13	2021-08-12
Pre-amplifier (1-18GHz)	CLAVIO	BDLNA-0118	SHEM050-2	2020-08-13	2021-08-12
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2019-12-20	2020-12-19
Signal Generator	R&S	SMR40	SHEM058-1	2020-08-13	2021-08-12
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2019-12-20	2020-12-19
Test software	ESE	E3	Version: 6.111221a	/	/



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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 no consideration of replacement. The best case gain of the antenna 1 and antenna 2 is 3dBi, The directional gain is 6dBi.

Antenna location: Refer to Appendix (Internal Photos)



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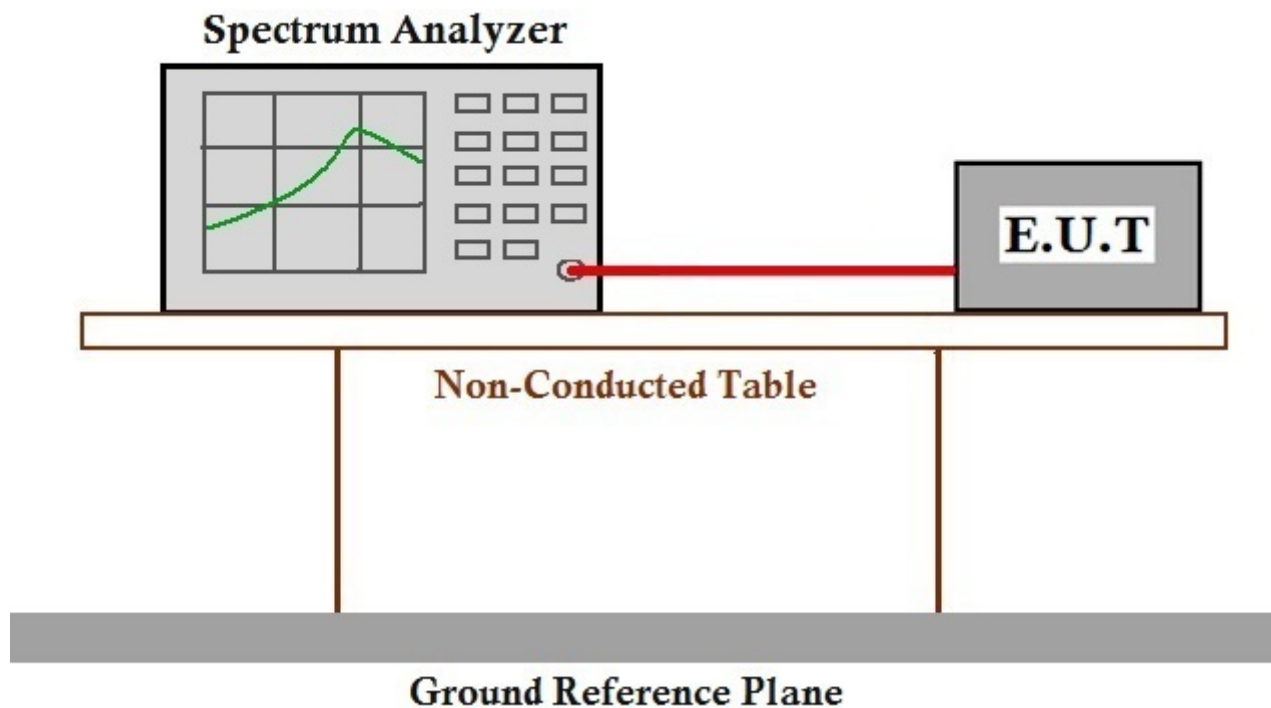
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6.2 Transmitter Power Control

6.2.1 Test Requirement:

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

6.2.2 Test Setup Diagram



6.2.3 Conclusion



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6.3 Transmission in the Absence of Data

6.3.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

6.3.2 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 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode: d: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.

e: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.

f: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.

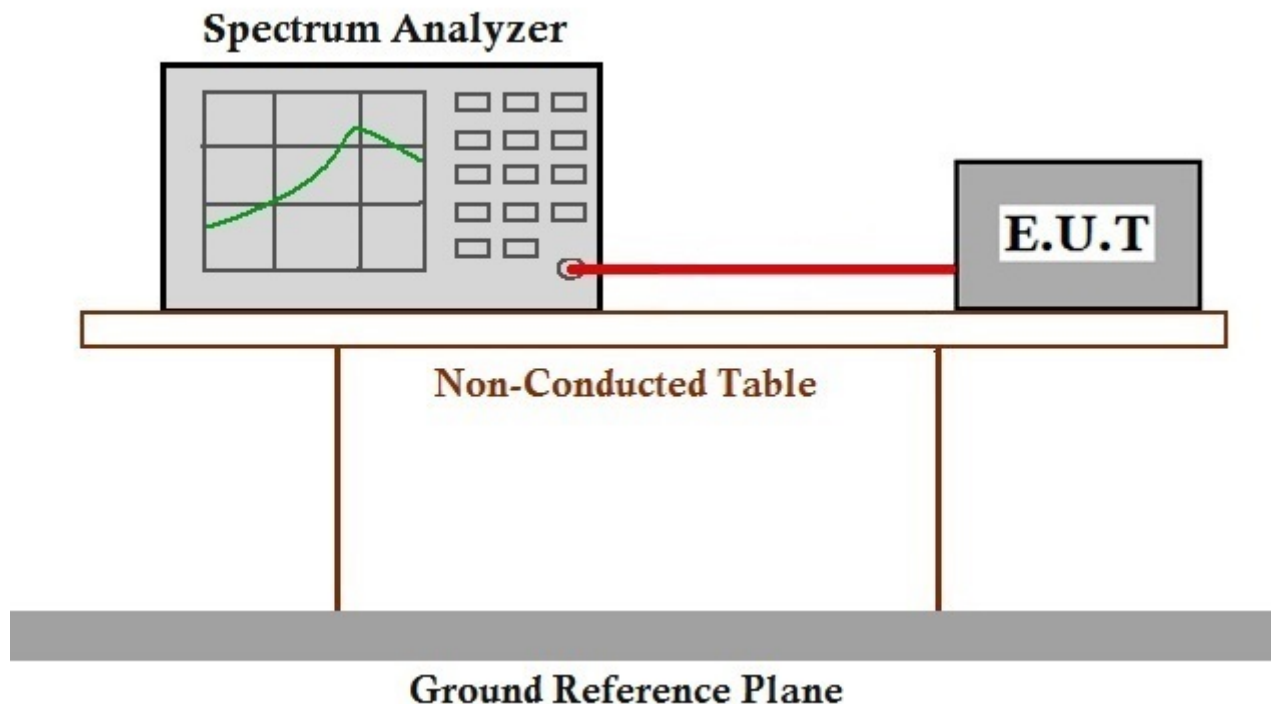
g:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst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

The detailed test data see: Appendix B for SHEM200900737903



7.2 99% Bandwidth

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode: d: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.

e: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.

f: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.

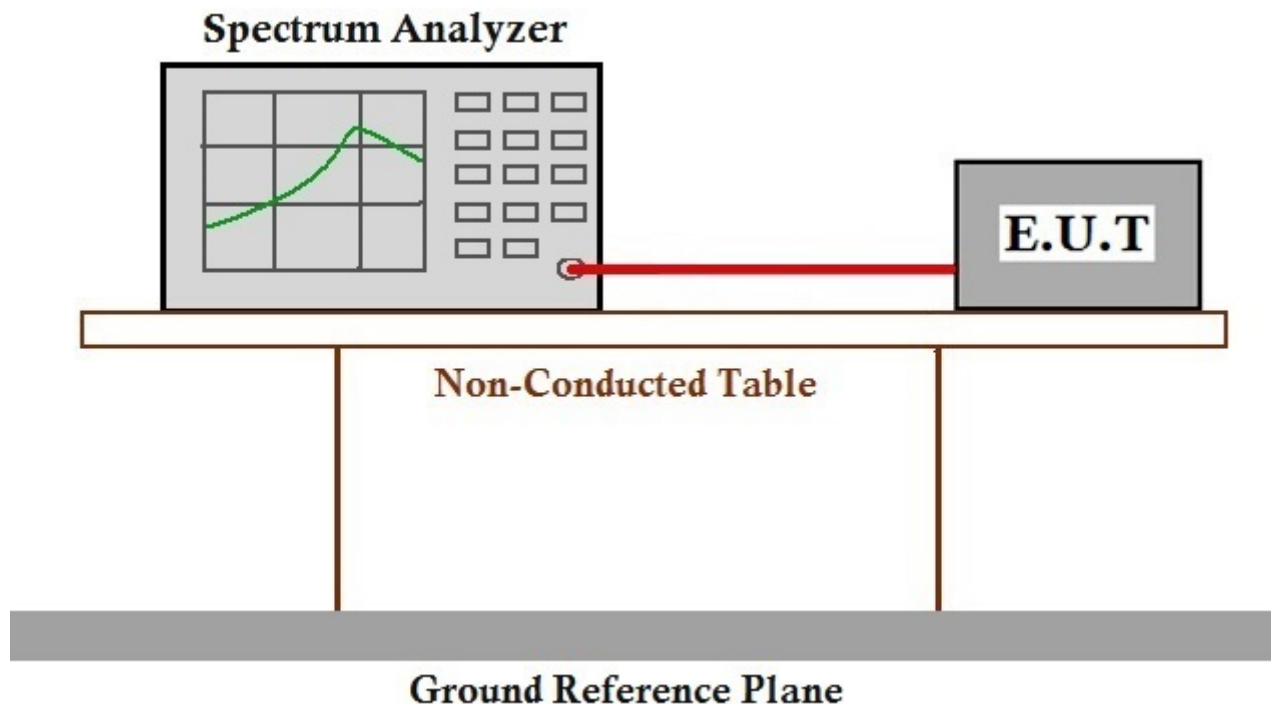
g:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst 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 SHEM200900737903



7.3 26dB Emission bandwidth

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode: d: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.

e: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.

f: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.

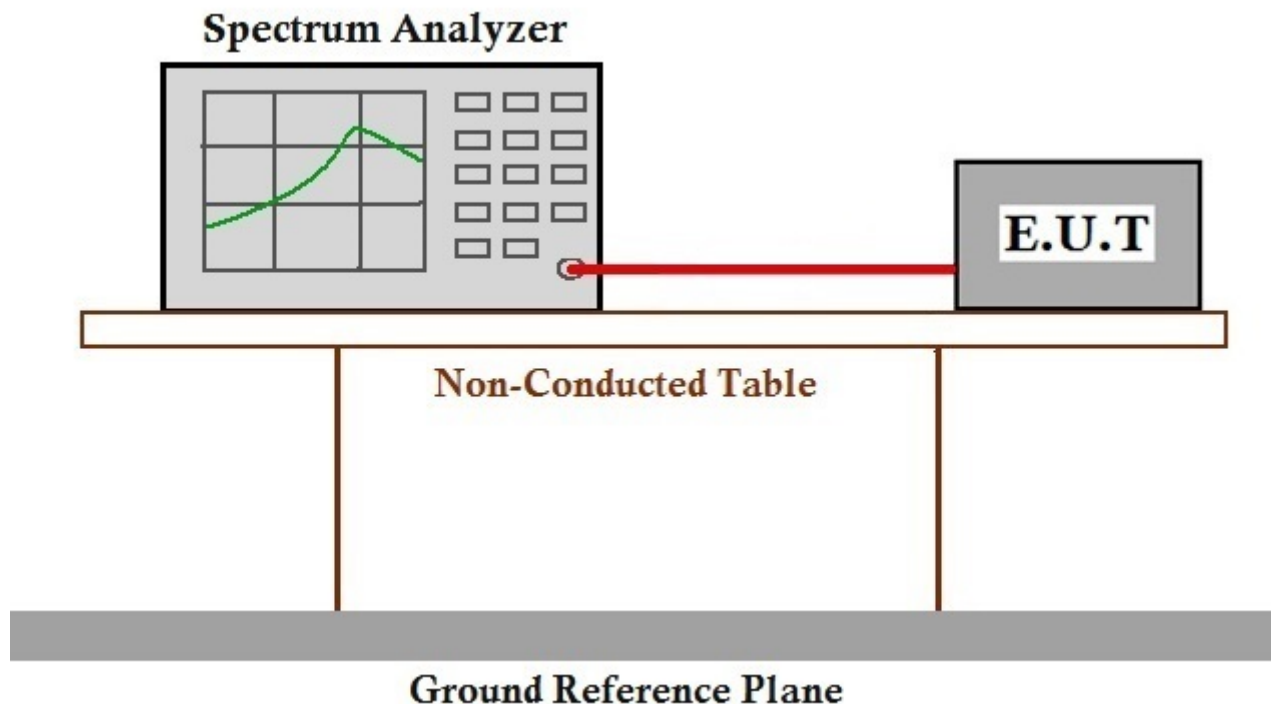
g:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst 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 SHEM200900737903

7.4 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

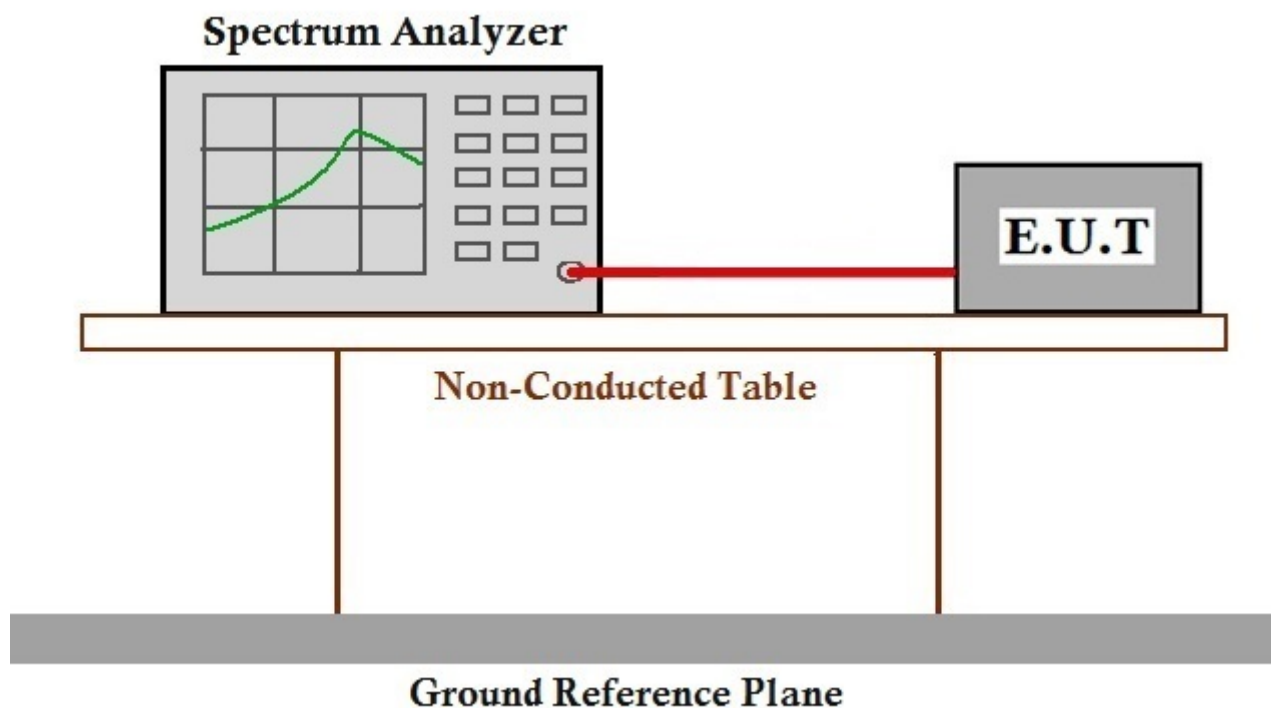
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

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

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM200900737903



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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode: d: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.

e: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.

f: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.

g: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



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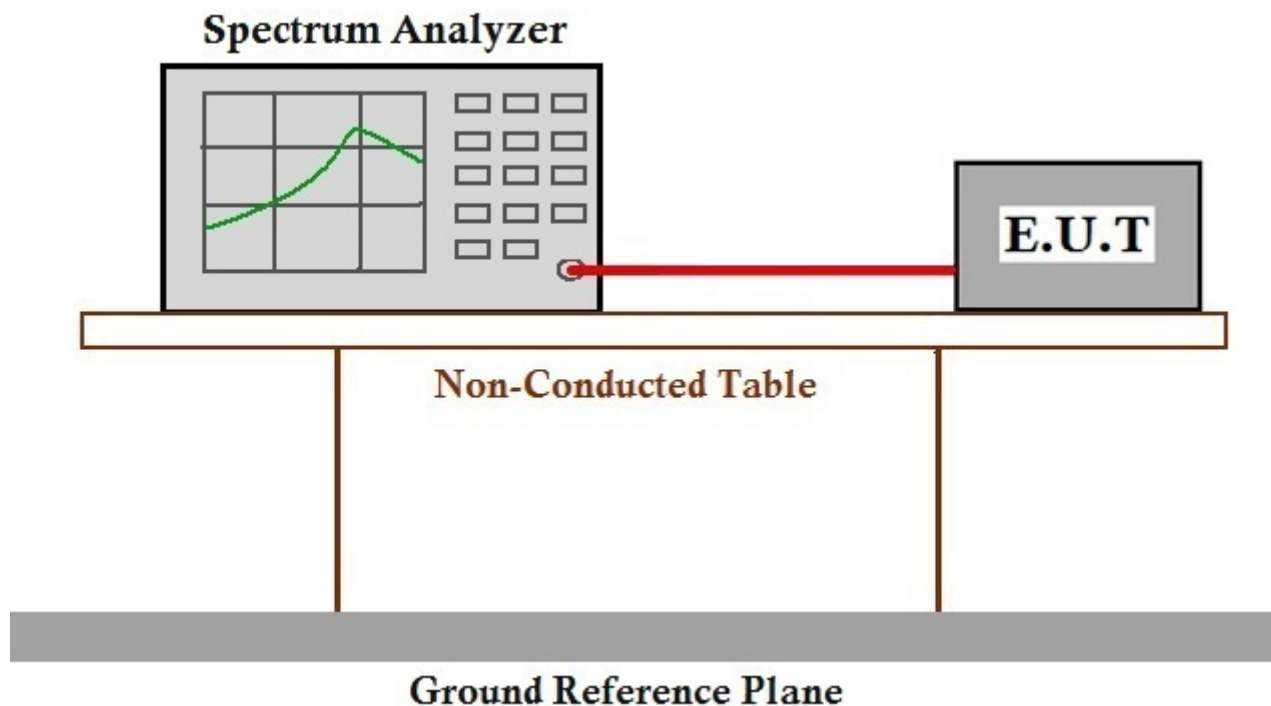
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802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE

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 SHEM200900737903



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7.6 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode: d: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.

e: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.

f: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.

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



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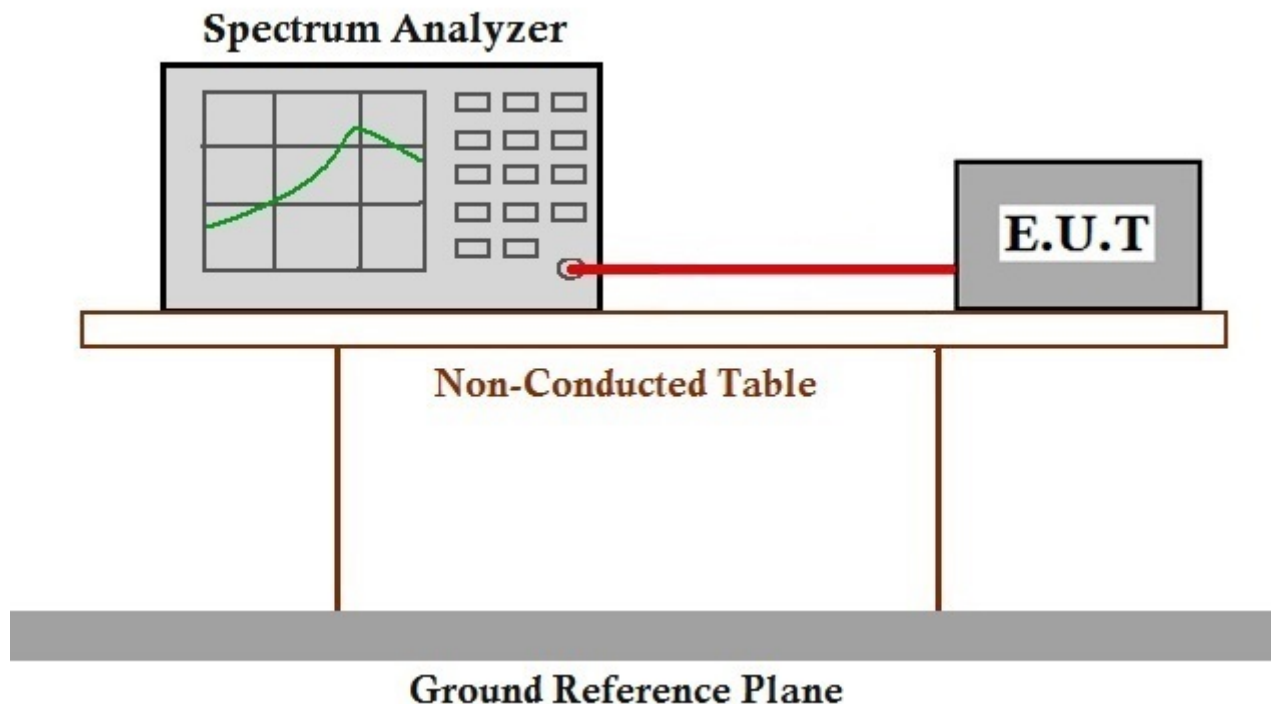
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7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM200900737903



7.7 Radiated Spurious emissions and Band-edge

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

Test Method: KDB 789033 D02 II G

Limit:

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

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode: d: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.

e: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.

f: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.

g: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 @



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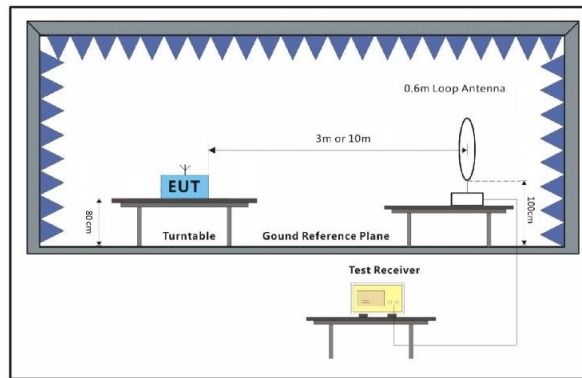
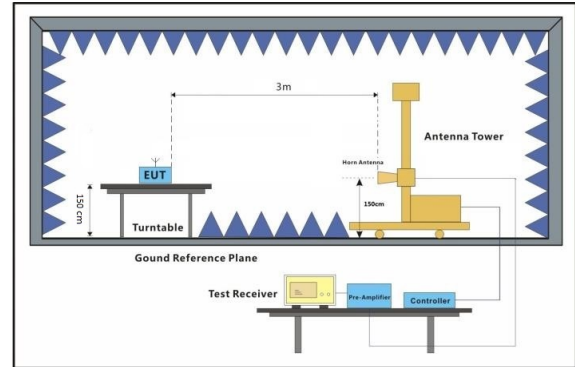
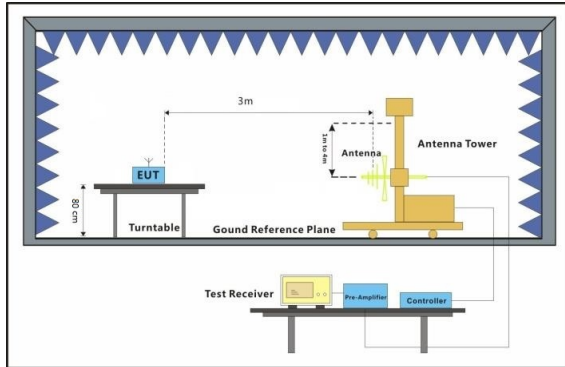
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MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the 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

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



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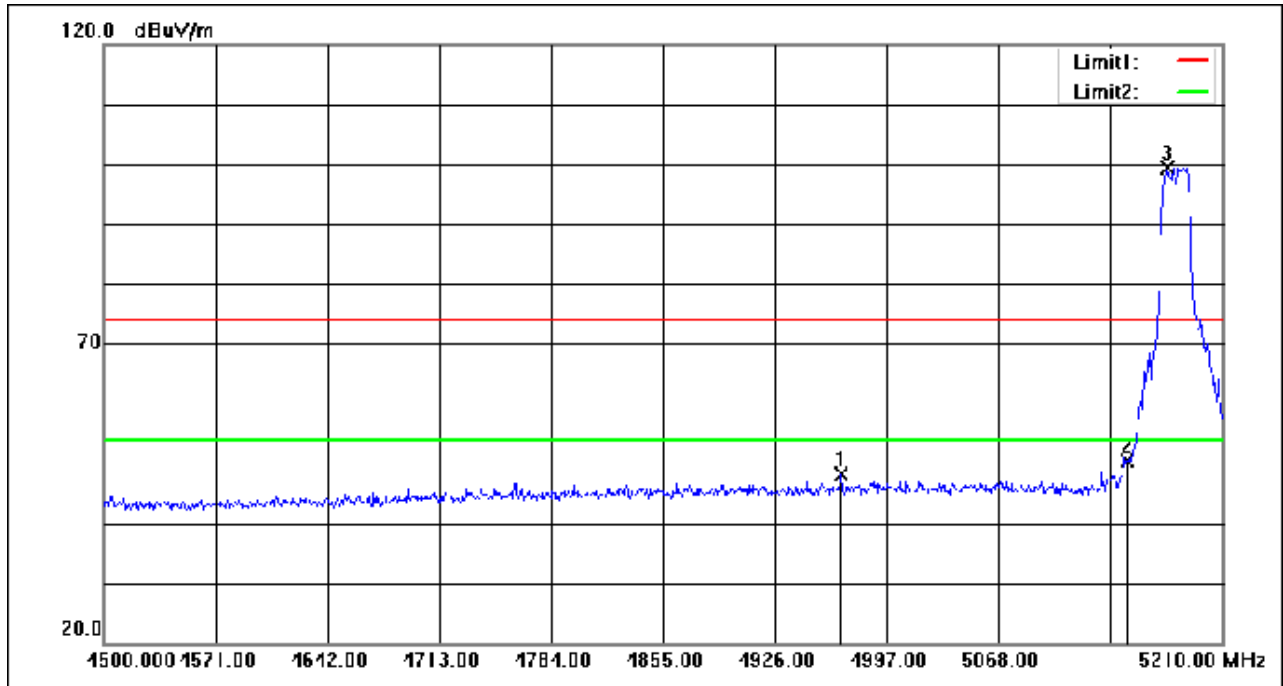
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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4967.890	47.27	0.89	48.16	74.00	-25.84	peak
2	5150.000	49.43	1.05	50.48	74.00	-23.52	peak
3	5175.210	98.41	1.07	99.48	74.00	25.48	peak



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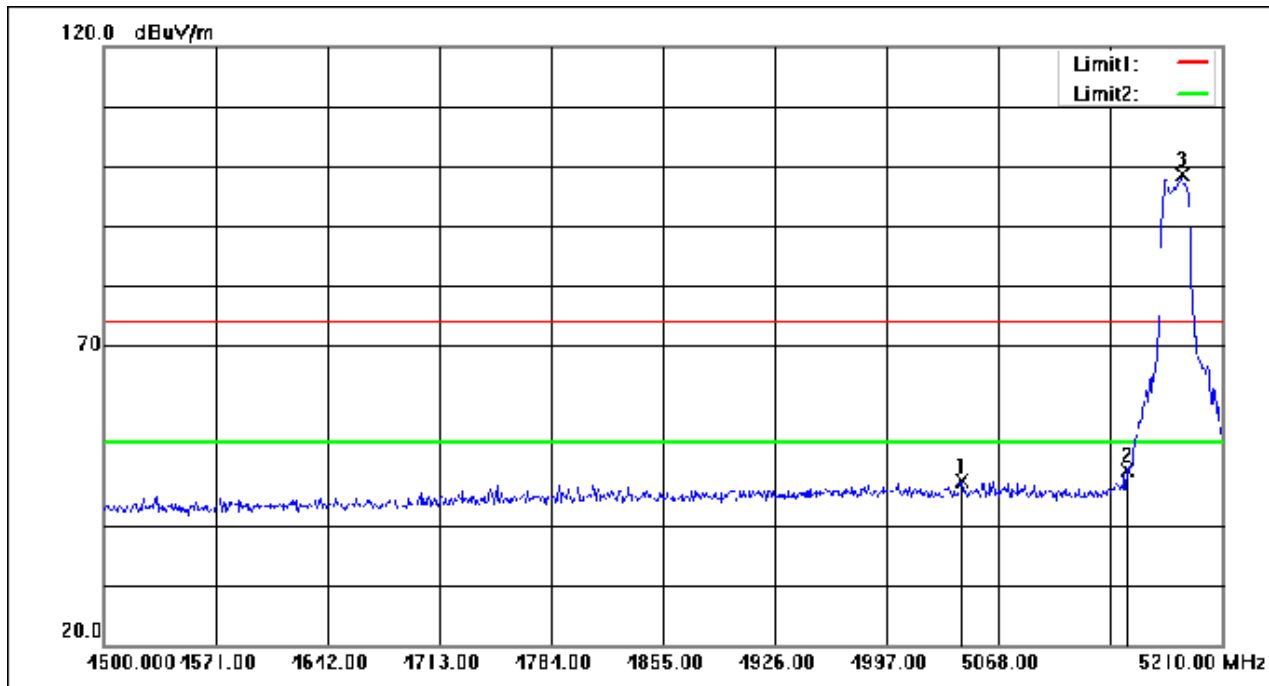
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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5044.570	46.39	0.99	47.38	74.00	-26.62	peak
2	5150.000	47.96	1.05	49.01	74.00	-24.99	peak
3	5184.440	97.66	1.07	98.73	74.00	24.73	peak

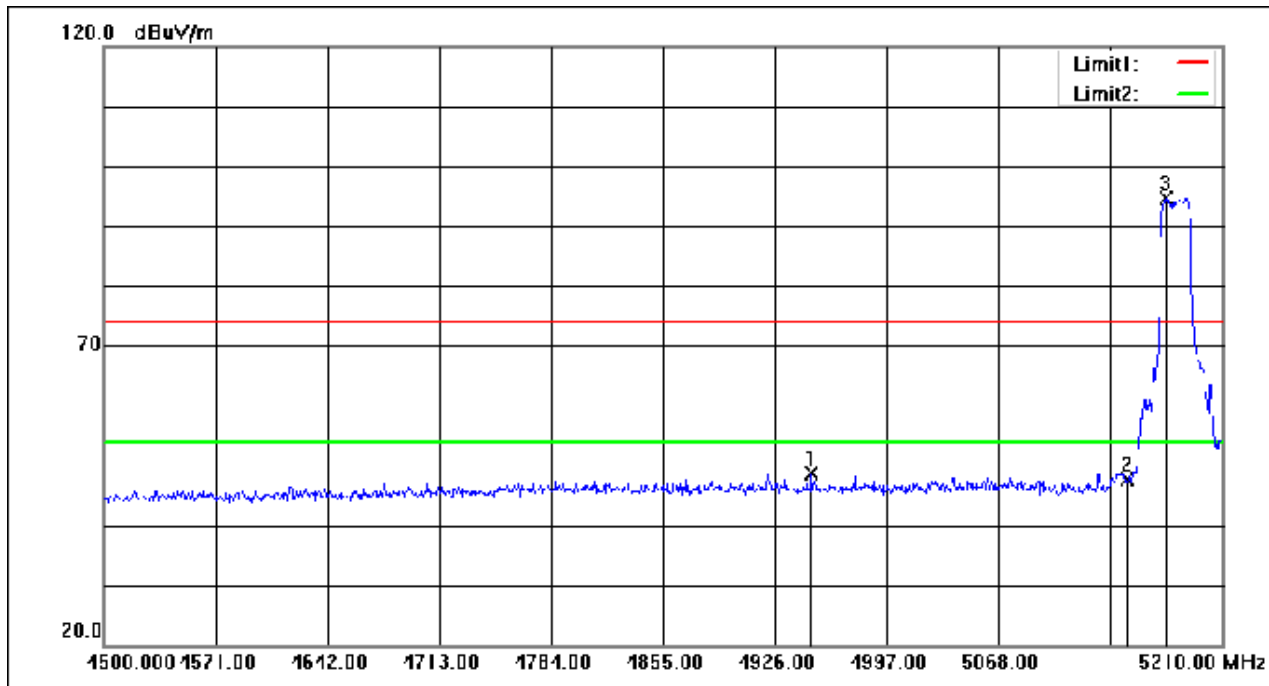




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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4949.430	47.69	0.85	48.54	74.00	-25.46	peak
2	5150.000	46.59	1.05	47.64	74.00	-26.36	peak
3	5174.500	93.65	1.07	94.72	74.00	20.72	peak



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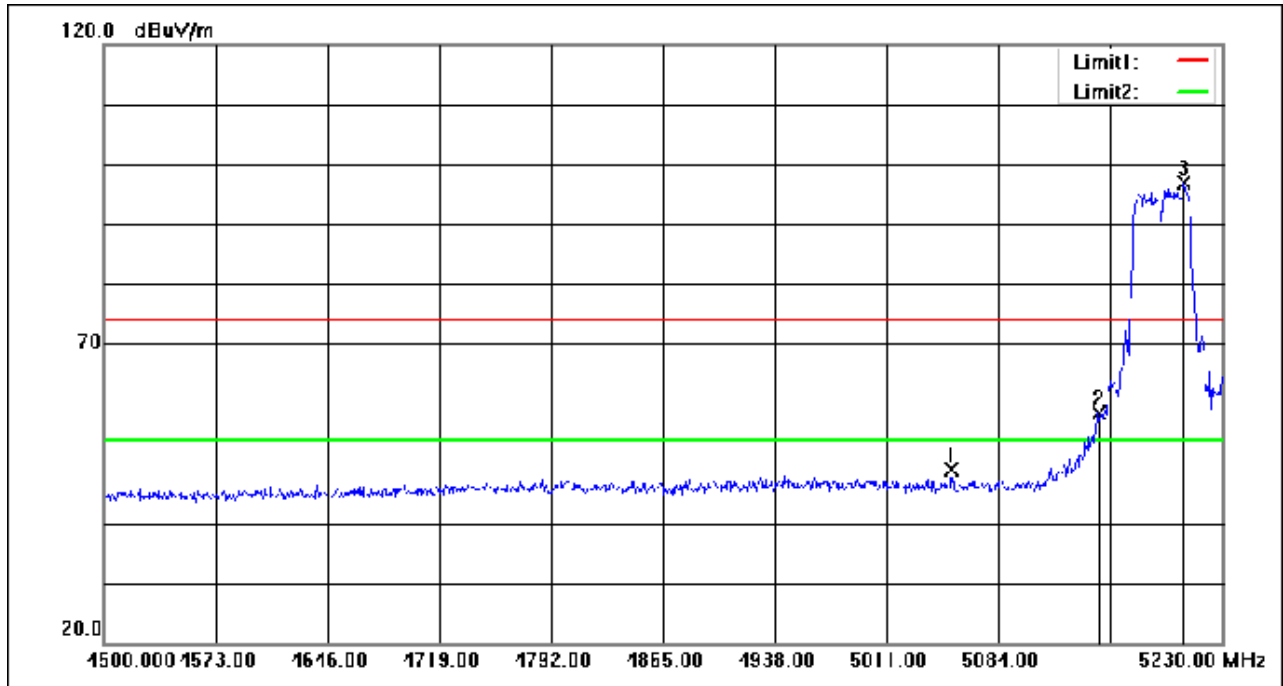
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5053.340	47.77	0.99	48.76	74.00	-25.24	peak
2	5150.000	57.34	1.05	58.39	74.00	-15.61	peak
3	5205.180	95.77	1.09	96.86	74.00	22.86	peak



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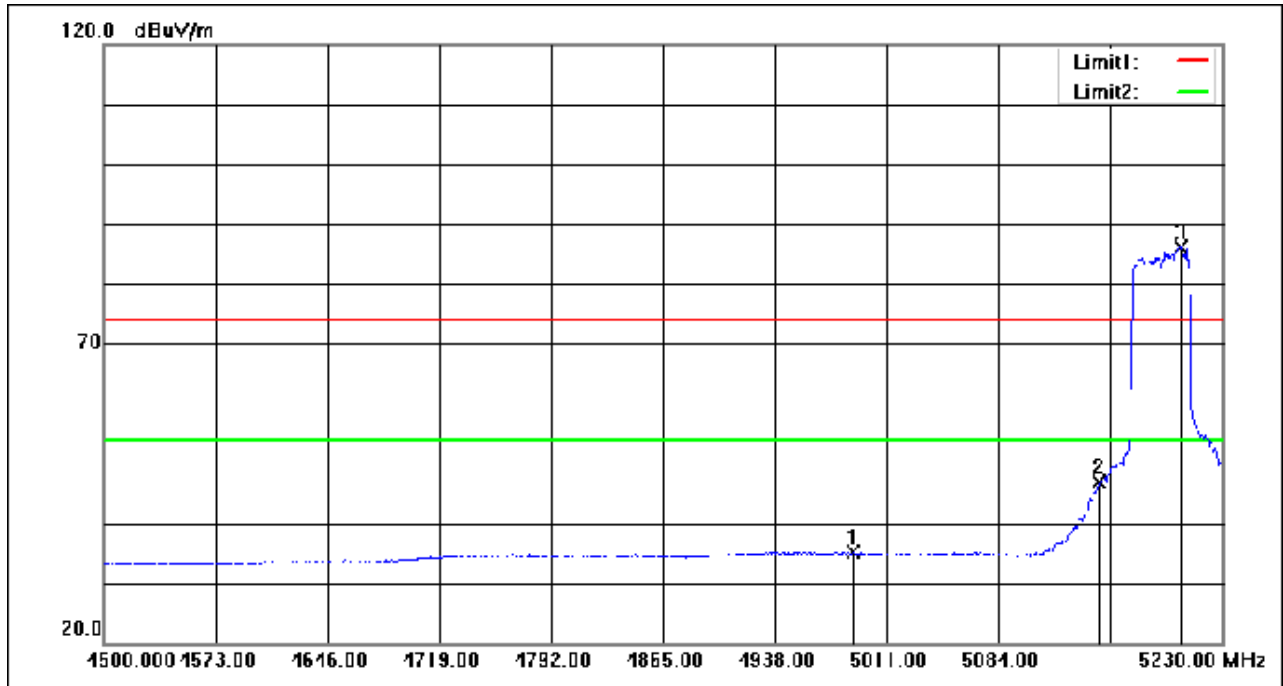


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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4989.100	34.20	0.94	35.14	54.00	-18.86	AVG
2	5150.000	45.94	1.05	46.99	54.00	-7.01	AVG
3	5202.990	84.98	1.09	86.07	54.00	32.07	AVG



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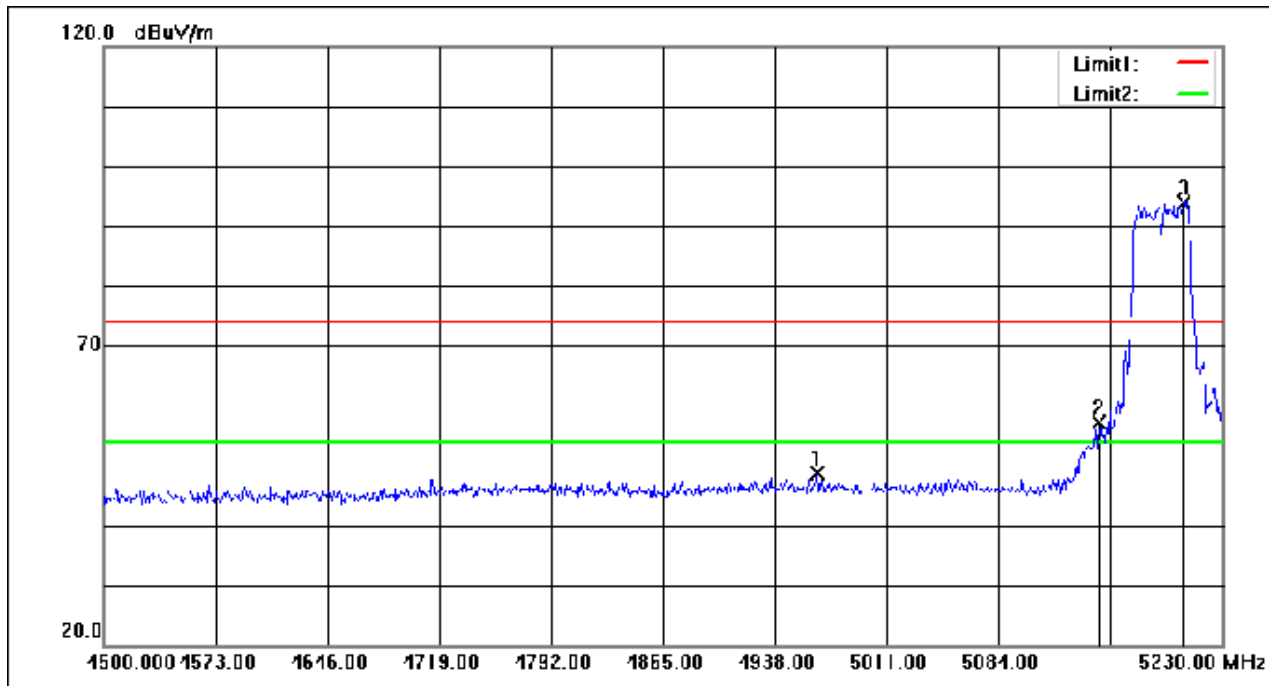
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Testing Center EMC Lab (201612)

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Member of the SGS Group (SGS SA)

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4965.740	47.84	0.88	48.72	74.00	-25.28	peak
2	5150.000	56.17	1.05	57.22	74.00	-16.78	peak
3	5205.180	92.89	1.09	93.98	74.00	19.98	peak



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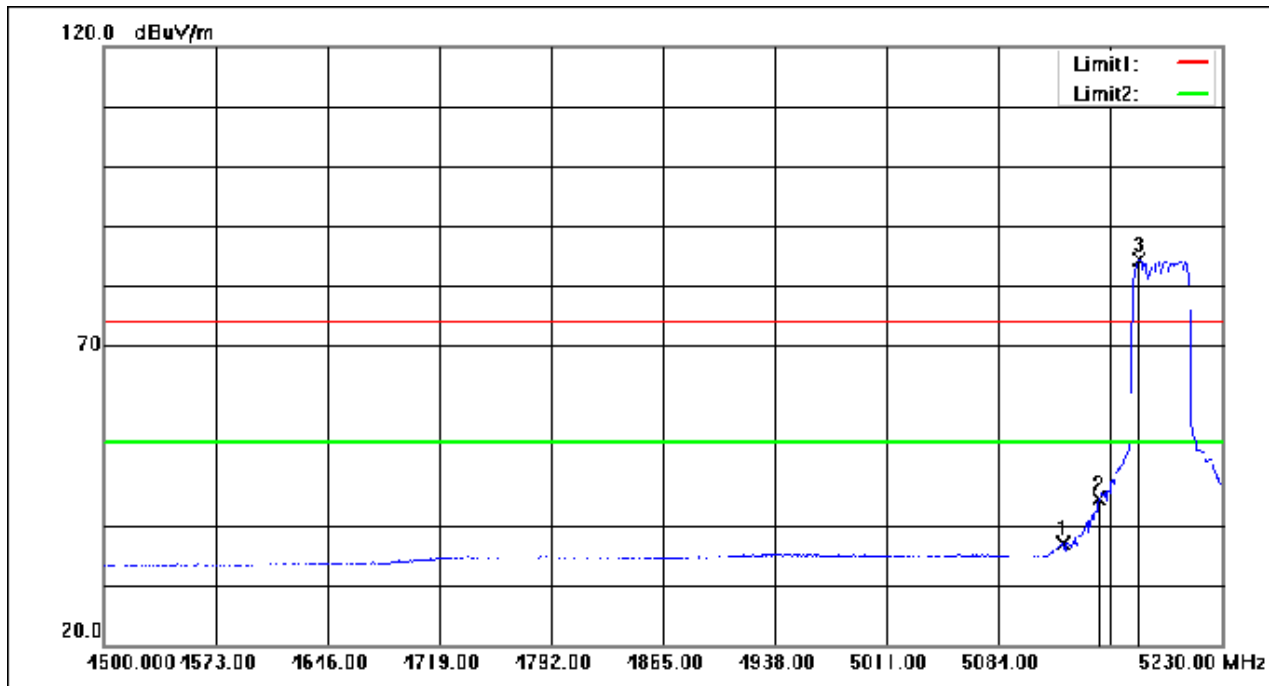
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5126.340	35.96	1.04	37.00	54.00	-17.00	AVG
2	5150.000	43.41	1.05	44.46	54.00	-9.54	AVG
3	5175.980	83.31	1.07	84.38	54.00	30.38	AVG



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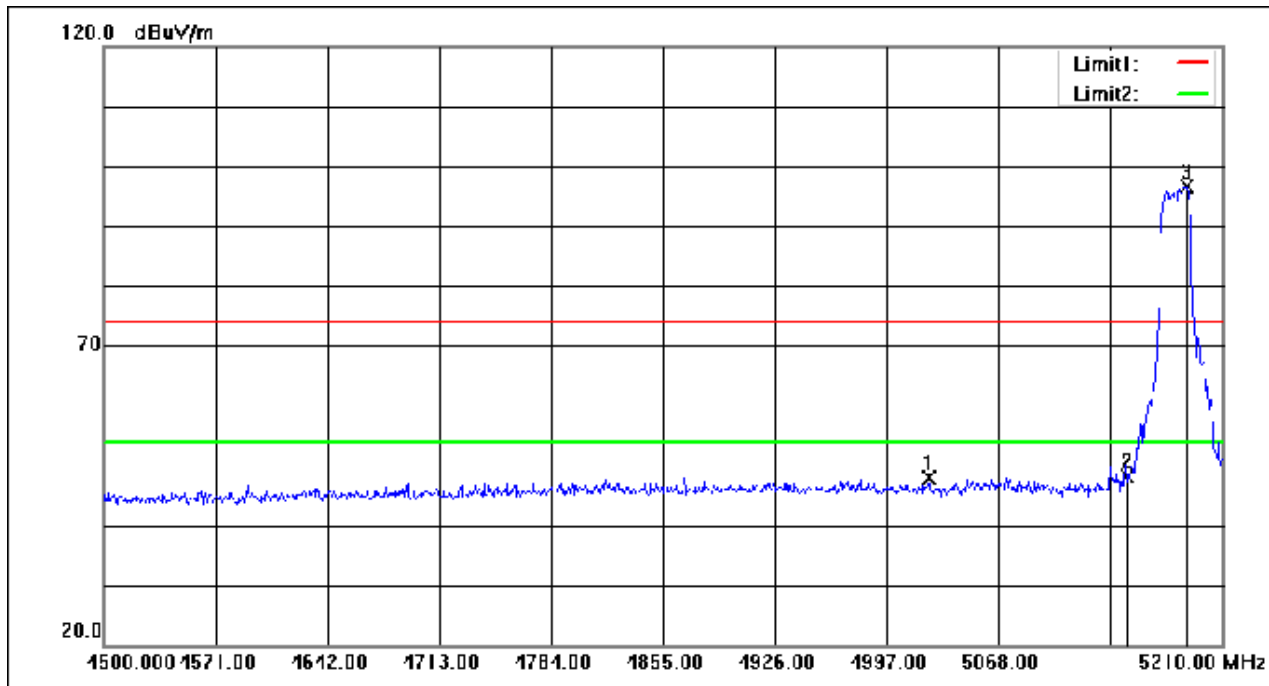
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5023.980	46.96	0.97	47.93	74.00	-26.07	peak
2	5150.000	47.02	1.05	48.07	74.00	-25.93	peak
3	5187.990	95.63	1.08	96.71	74.00	22.71	peak



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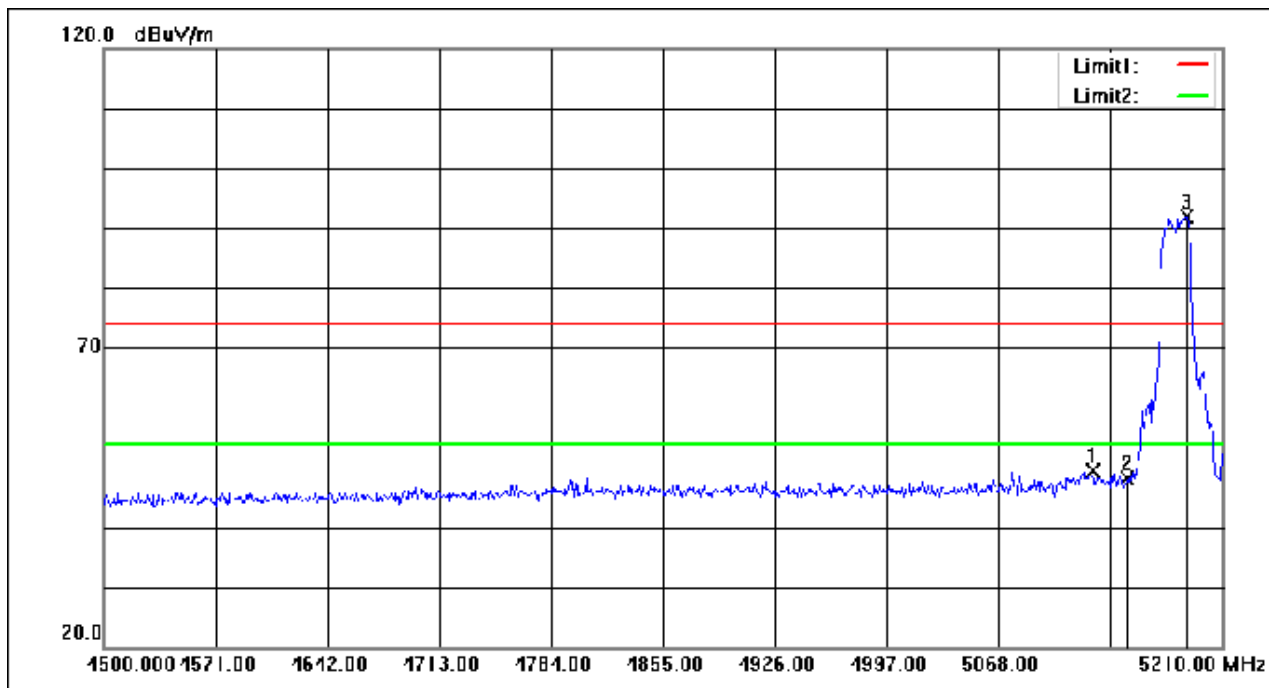
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5128.350	48.33	1.04	49.37	74.00	-24.63	peak
2	5150.000	46.97	1.05	48.02	74.00	-25.98	peak
3	5187.280	90.78	1.08	91.86	74.00	17.86	peak



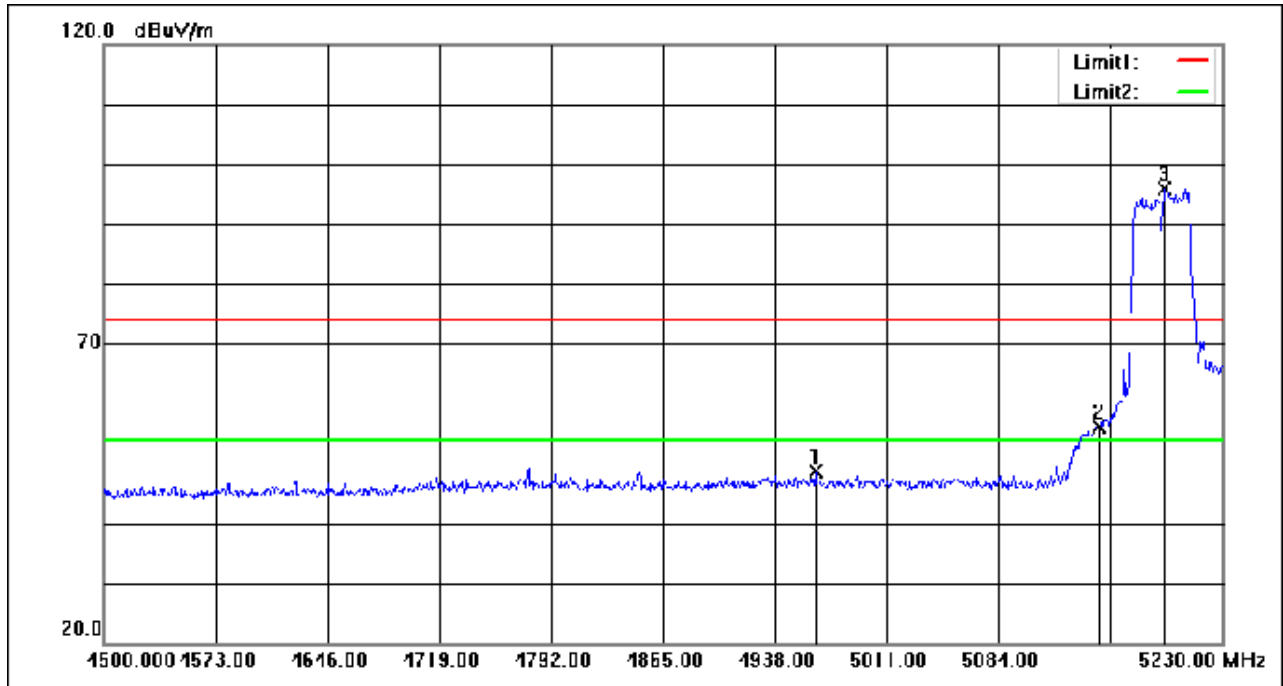
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4964.280	47.68	0.88	48.56	74.00	-25.44	peak
2	5150.000	55.04	1.05	56.09	74.00	-17.91	peak
3	5192.770	94.86	1.08	95.94	74.00	21.94	peak



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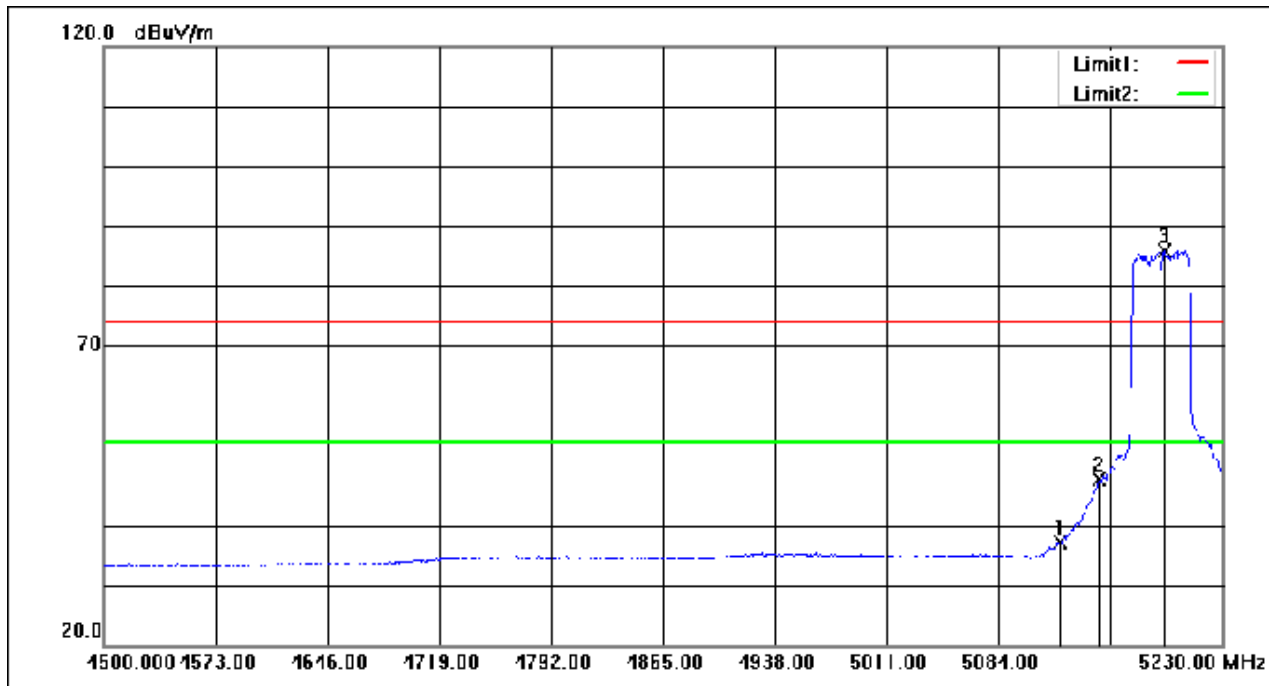
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Report No.: SHEM200900737903
Page: 38 of 224

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5124.150	36.06	1.04	37.10	54.00	-16.90	AVG
2	5150.000	46.66	1.05	47.71	54.00	-6.29	AVG
3	5192.040	84.87	1.08	85.95	54.00	31.95	AVG



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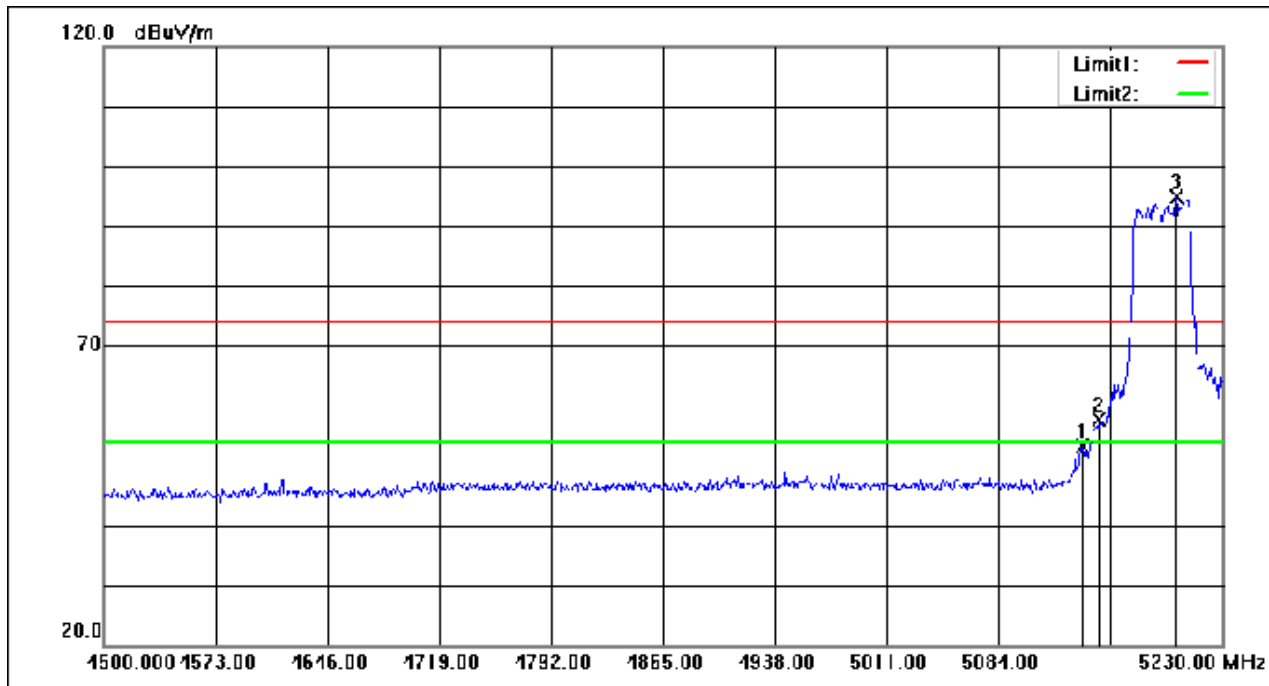
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5138.750	52.09	1.05	53.14	74.00	-20.86	peak
2	5150.000	56.53	1.05	57.58	74.00	-16.42	peak
3	5200.070	93.68	1.08	94.76	74.00	20.76	peak



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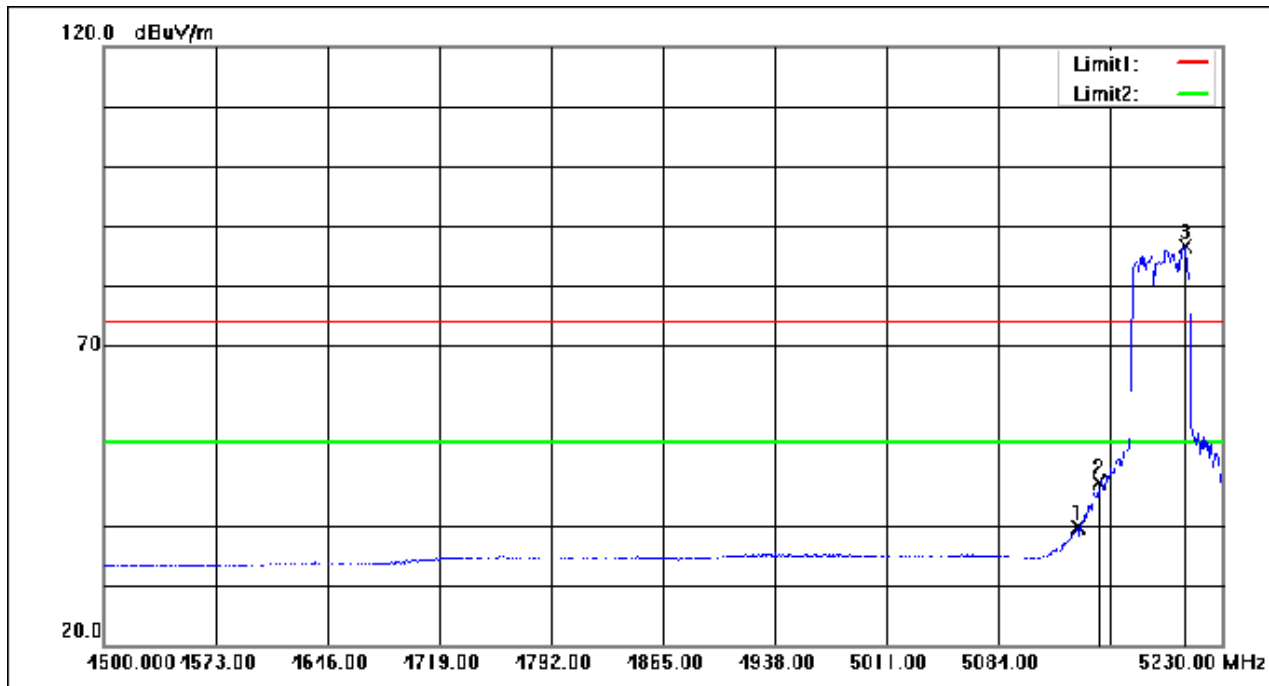
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Report No.: SHEM200900737903
Page: 40 of 224

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

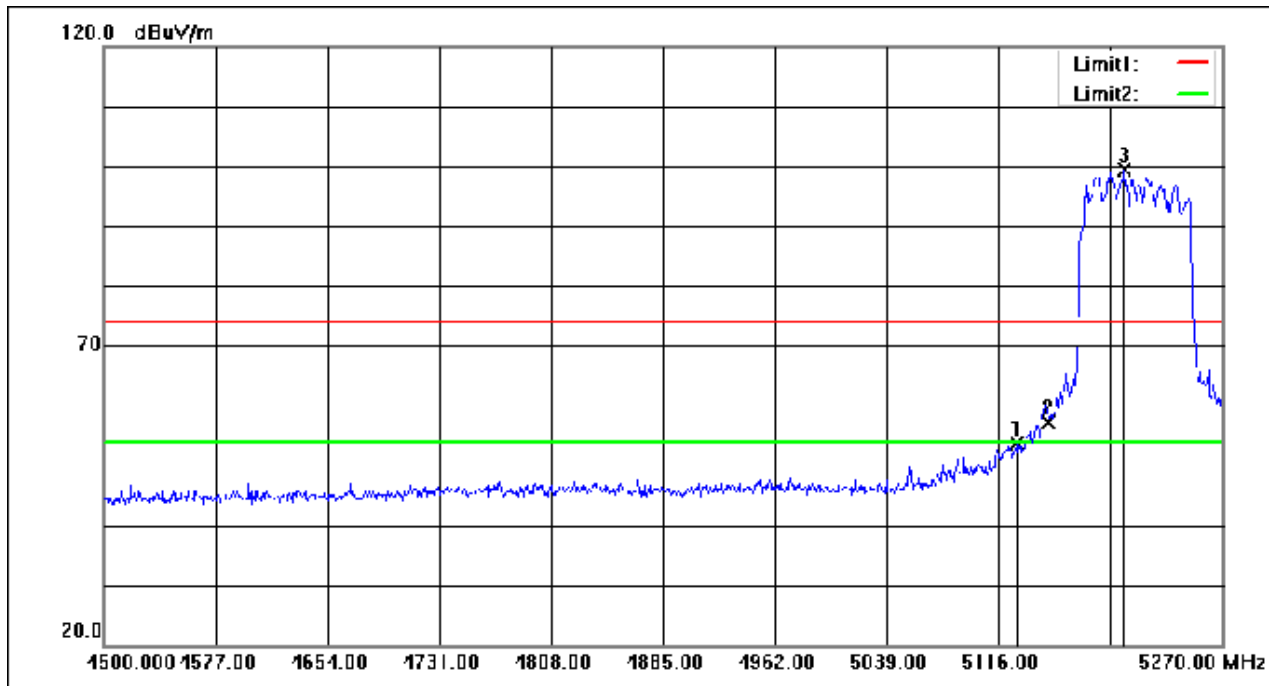


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5135.830	38.51	1.04	39.55	54.00	-14.45	AVG
2	5150.000	46.16	1.05	47.21	54.00	-6.79	AVG
3	5205.910	85.45	1.09	86.54	54.00	32.54	AVG



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5128.320	52.49	1.04	53.53	74.00	-20.47	peak
2	5150.000	56.05	1.05	57.10	74.00	-16.90	peak
3	5203.010	98.21	1.09	99.30	74.00	25.30	peak



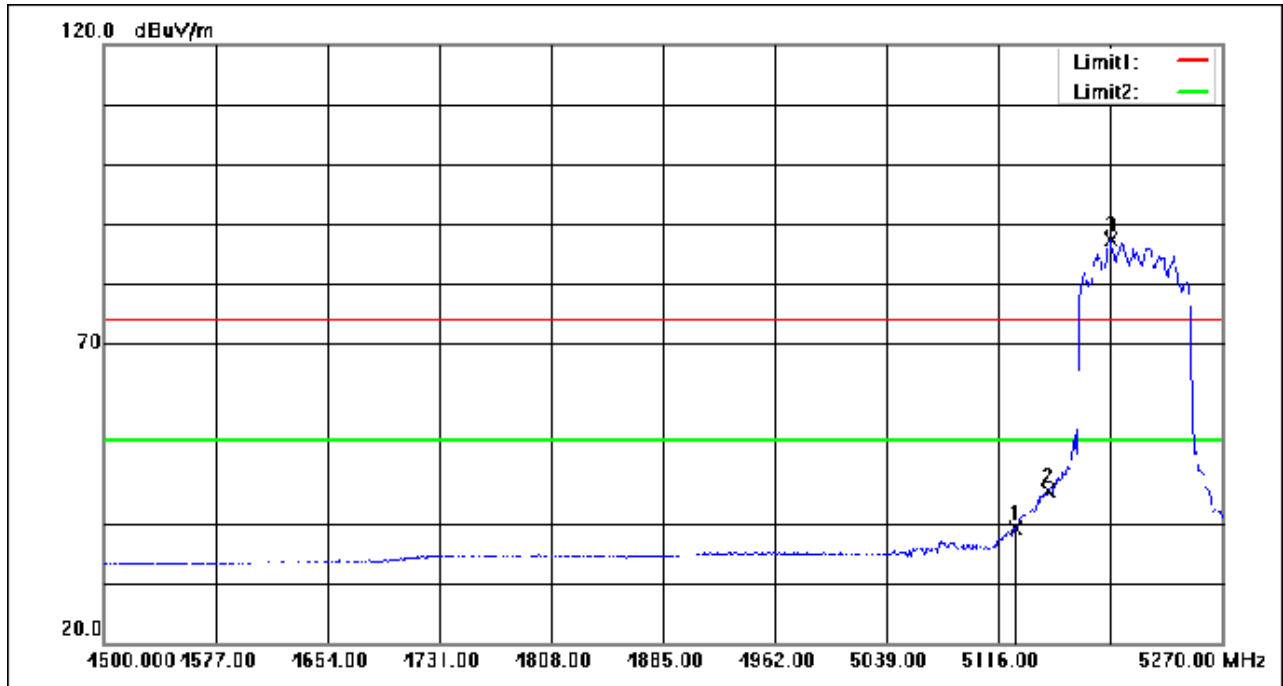
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5127.550	38.14	1.04	39.18	54.00	-14.82	AVG
2	5150.000	44.40	1.05	45.45	54.00	-8.55	AVG
3	5193.000	86.21	1.08	87.29	54.00	33.29	AVG



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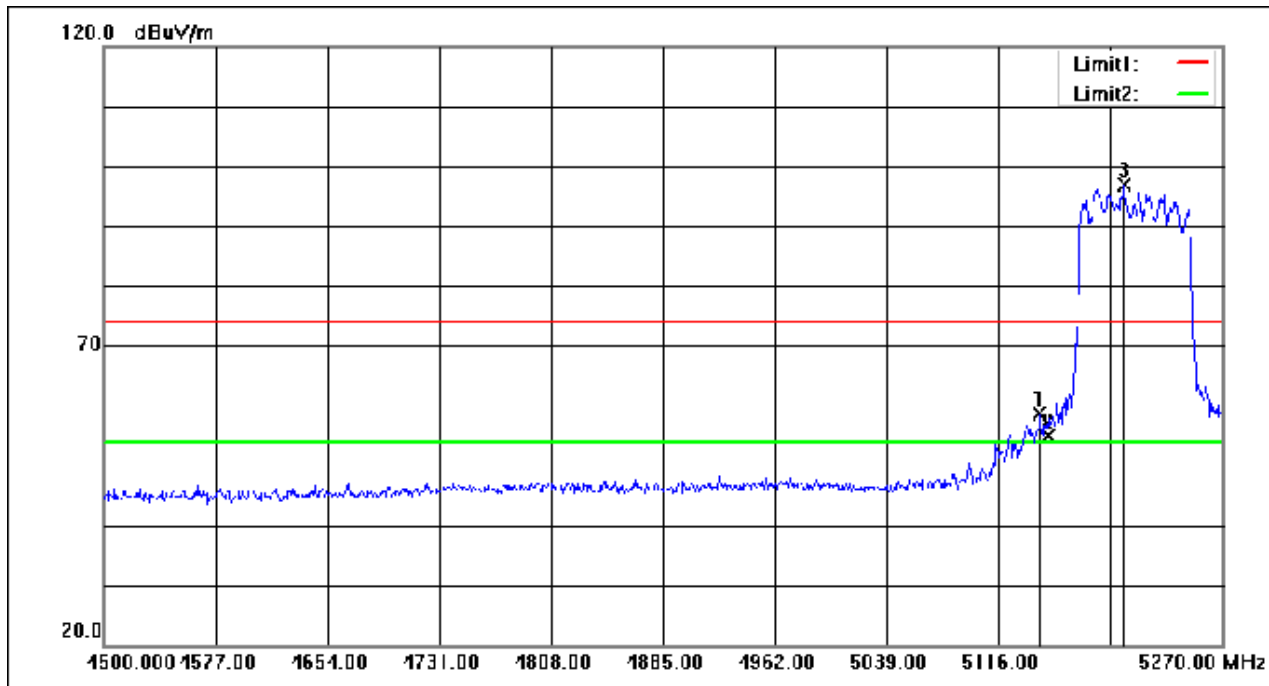
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5144.490	57.58	1.05	58.63	74.00	-15.37	peak
2	5150.000	53.91	1.05	54.96	74.00	-19.04	peak
3	5202.240	95.78	1.09	96.87	74.00	22.87	peak



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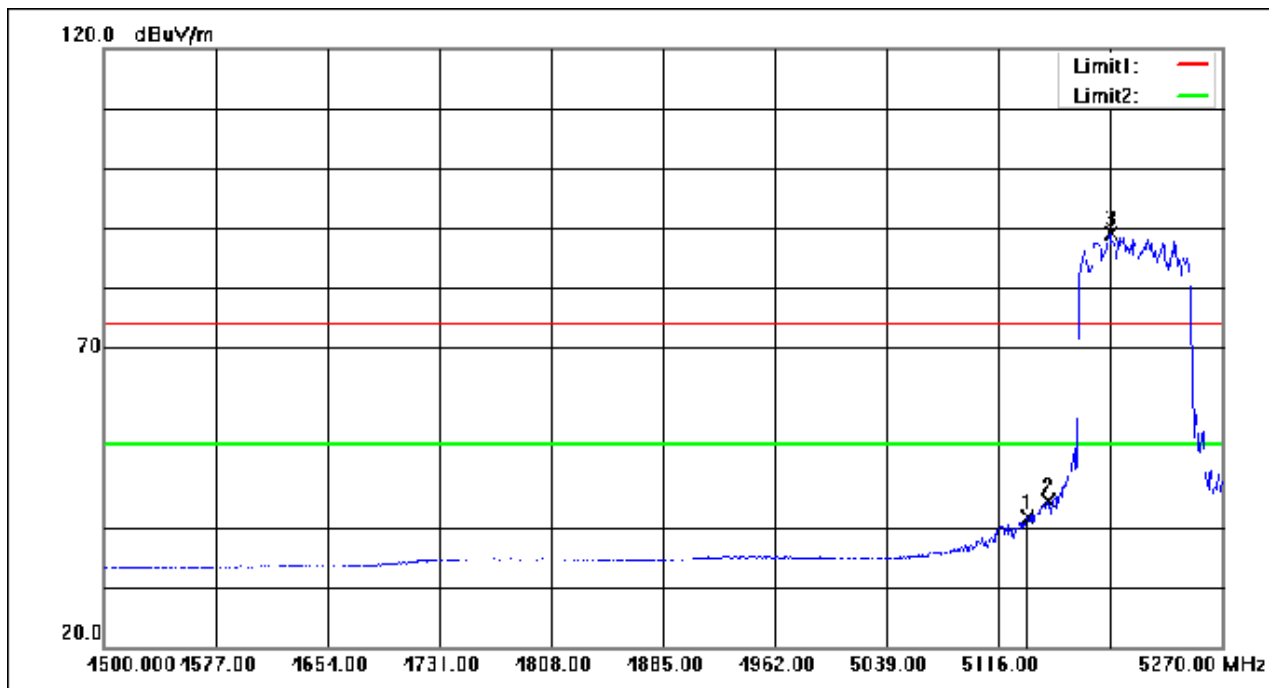
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5136.020	40.62	1.04	41.66	54.00	-12.34	AVG
2	5150.000	43.33	1.05	44.38	54.00	-9.62	AVG
3	5193.000	88.16	1.08	89.24	54.00	35.24	AVG



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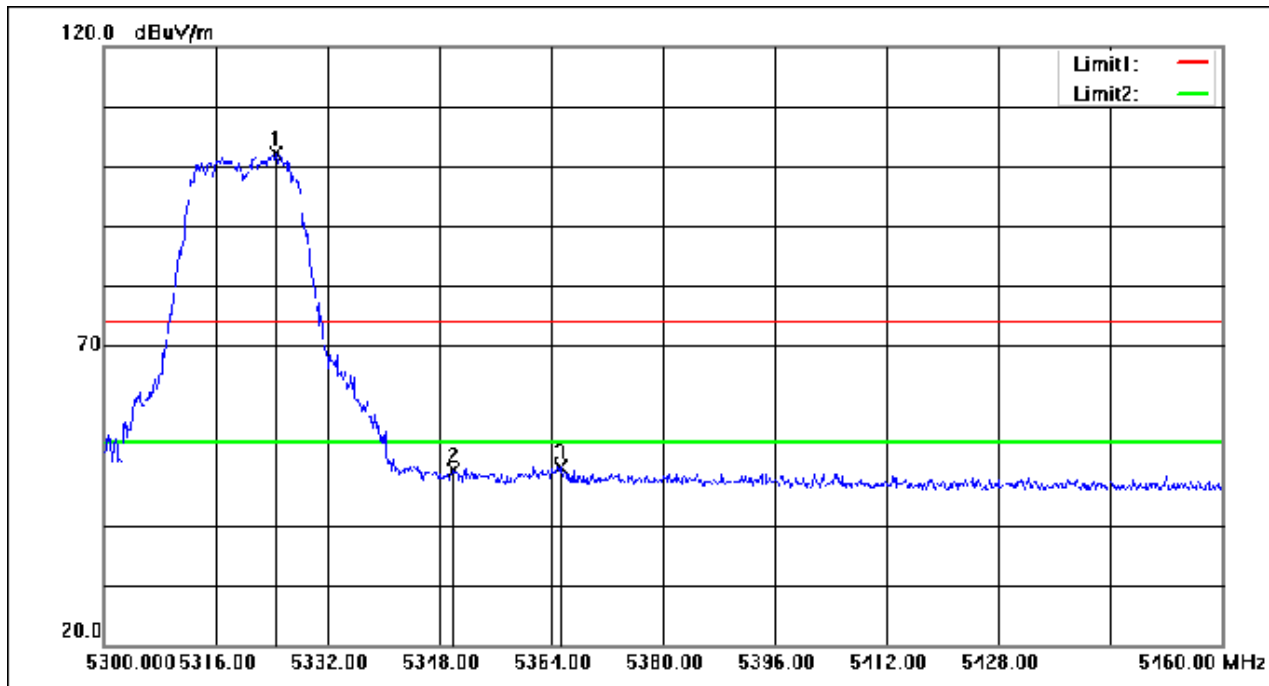
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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5324.640	101.06	1.16	102.22	74.00	28.22	peak
2	5350.000	47.89	1.18	49.07	74.00	-24.93	peak
3	5365.280	48.50	1.19	49.69	74.00	-24.31	peak



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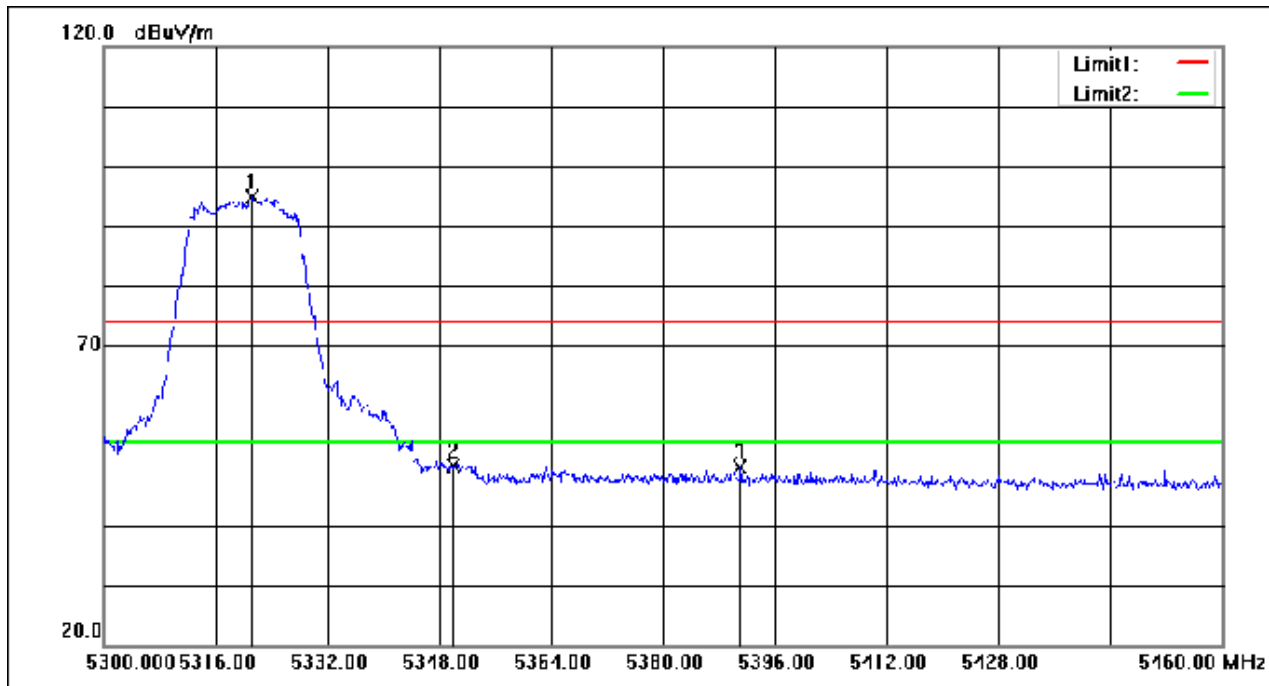
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5321.280	93.65	1.16	94.81	74.00	20.81	peak
2	5350.000	48.72	1.18	49.90	74.00	-24.10	peak
3	5391.040	48.43	1.20	49.63	74.00	-24.37	peak



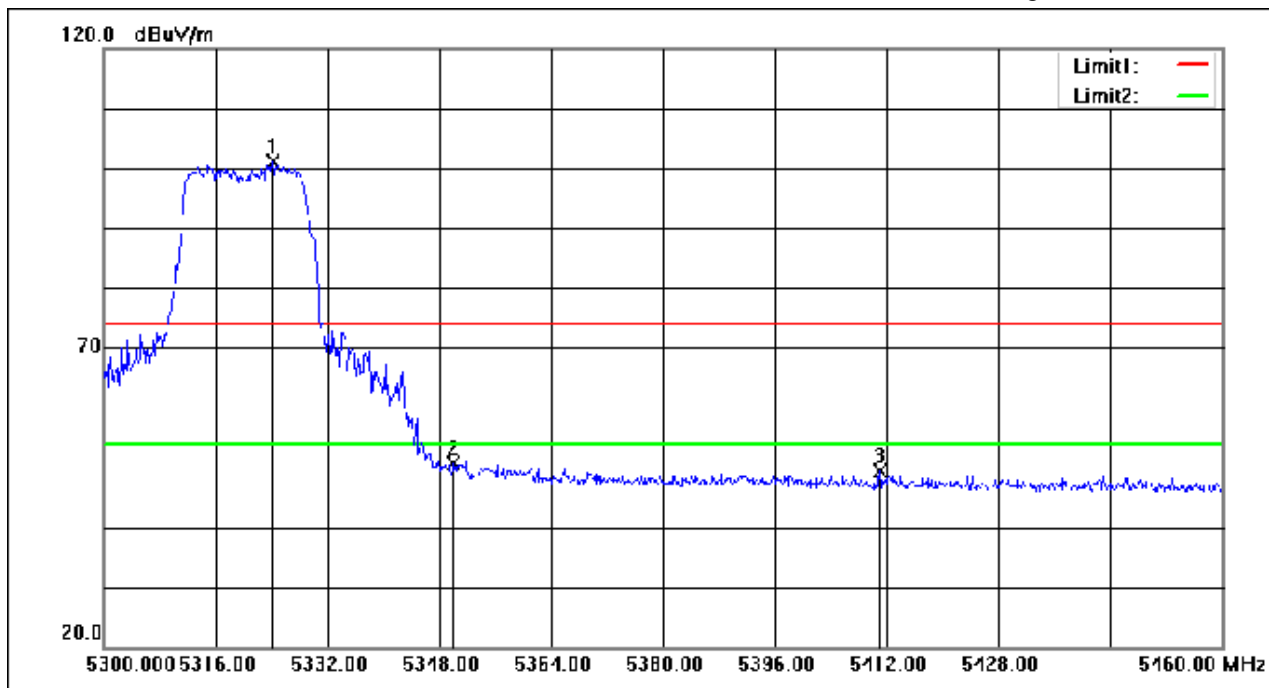
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5324.160	100.01	1.16	101.17	74.00	27.17	peak
2	5350.000	49.35	1.18	50.53	74.00	-23.47	peak
3	5411.040	48.08	1.21	49.29	74.00	-24.71	peak



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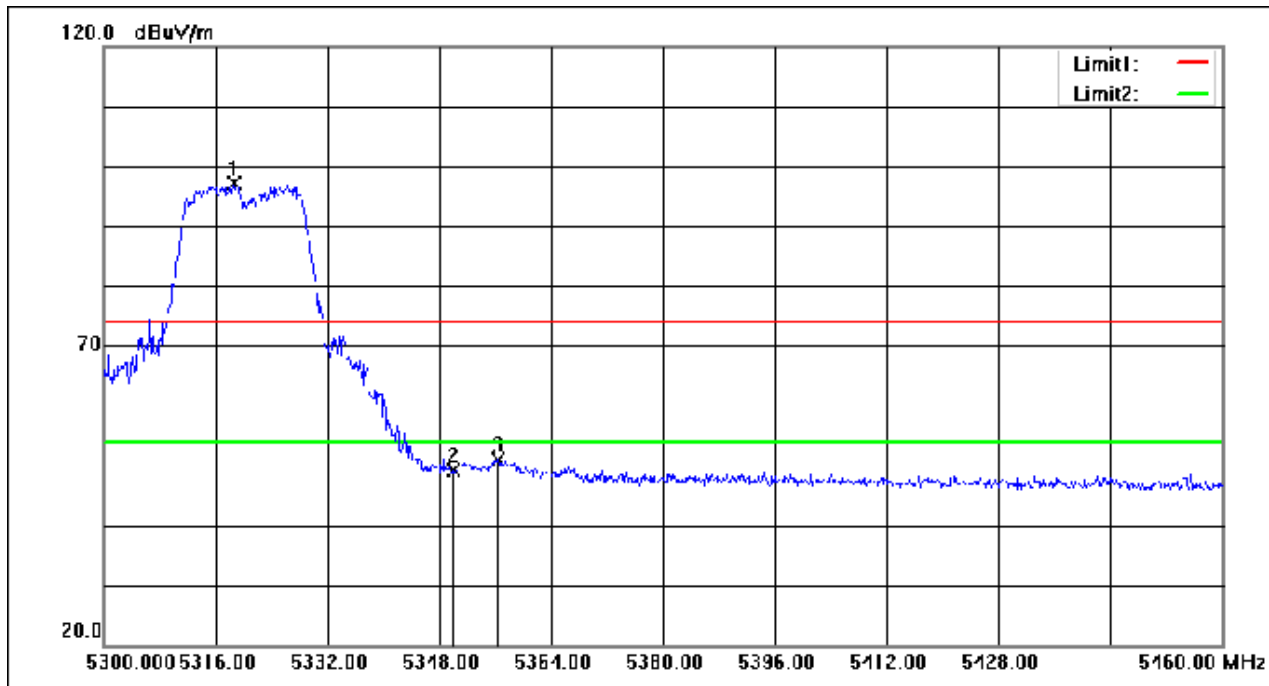
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5318.560	96.03	1.16	97.19	74.00	23.19	peak
2	5350.000	47.88	1.18	49.06	74.00	-24.94	peak
3	5356.320	49.76	1.18	50.94	74.00	-23.06	peak



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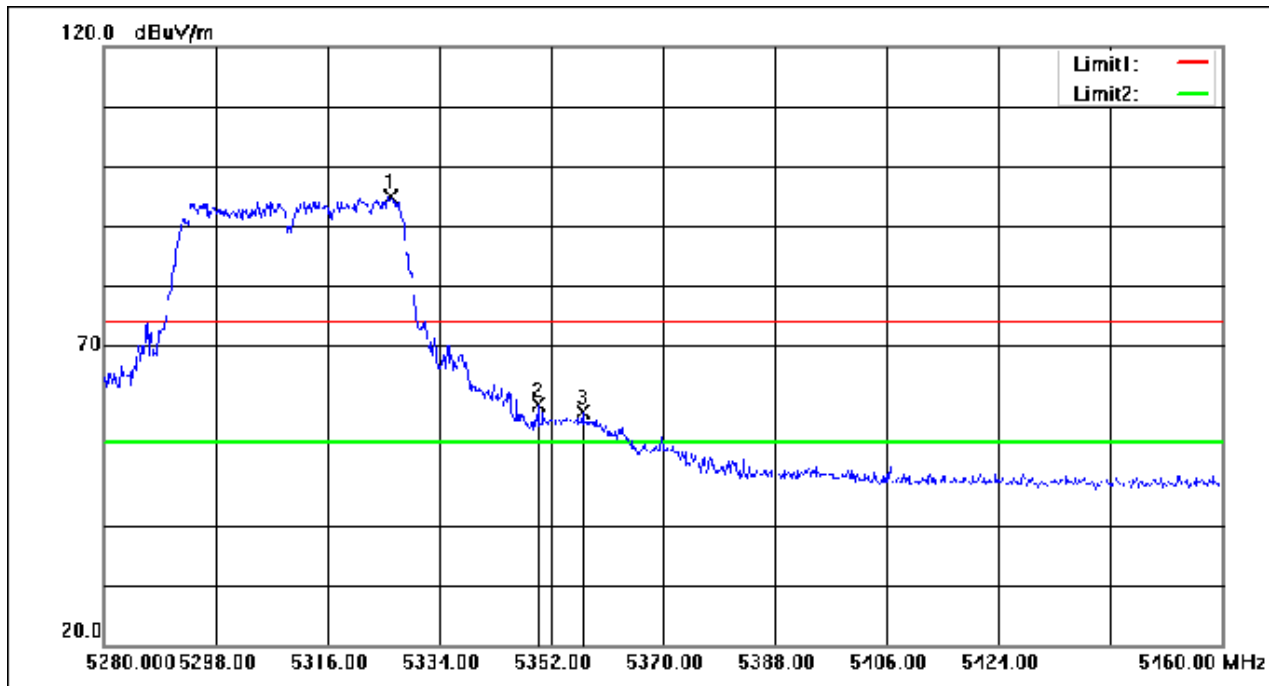
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5326.080	93.81	1.16	94.97	74.00	20.97	peak
2	5350.000	58.97	1.18	60.15	74.00	-13.85	peak
3	5357.040	57.71	1.18	58.89	74.00	-15.11	peak



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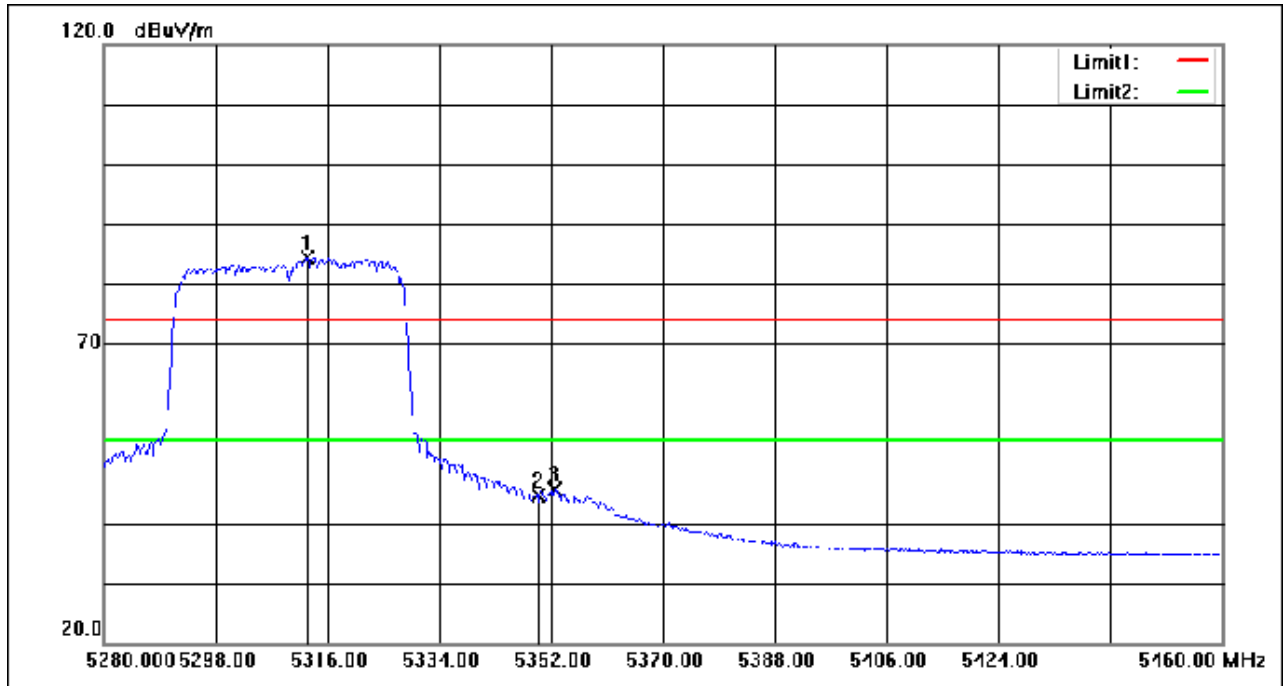
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5312.760	83.31	1.15	84.46	54.00	30.46	AVG
2	5350.000	43.49	1.18	44.67	54.00	-9.33	AVG
3	5352.540	44.57	1.18	45.75	54.00	-8.25	AVG



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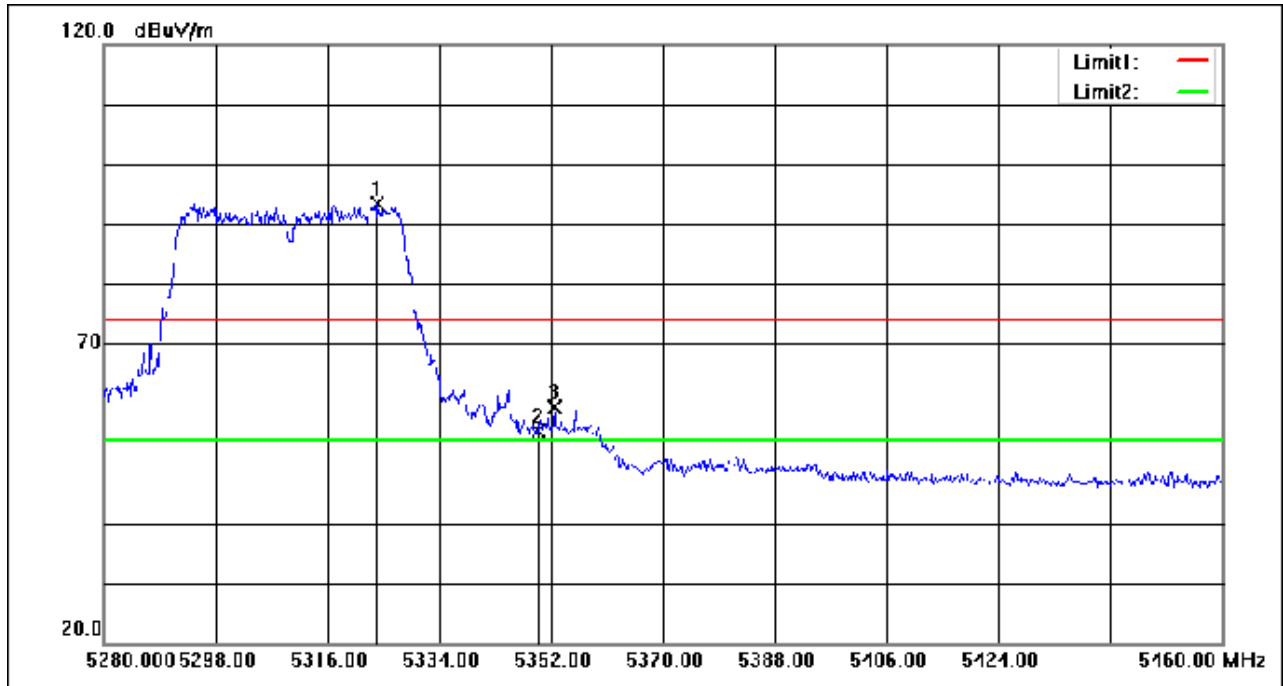
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5323.920	92.21	1.16	93.37	74.00	19.37	peak
2	5350.000	54.20	1.18	55.38	74.00	-18.62	peak
3	5352.540	58.32	1.18	59.50	74.00	-14.50	peak



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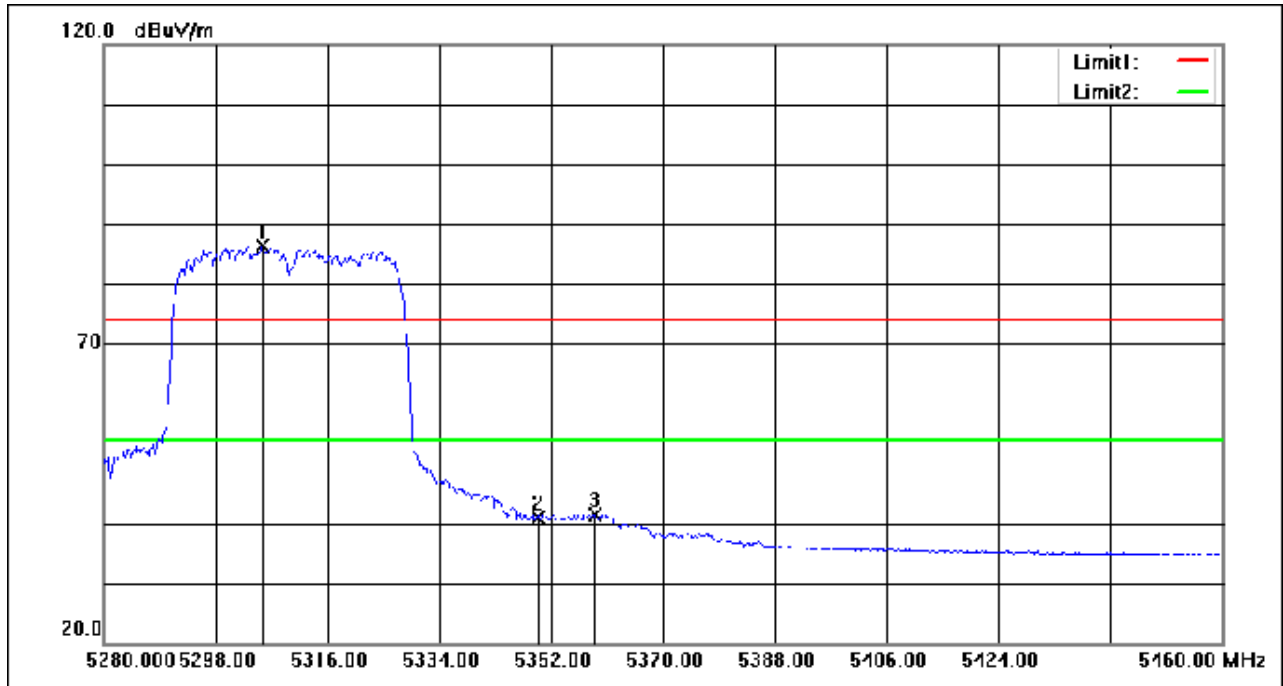
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5305.560	85.23	1.15	86.38	54.00	32.38	AVG
2	5350.000	39.61	1.18	40.79	54.00	-13.21	AVG
3	5359.020	40.31	1.18	41.49	54.00	-12.51	AVG



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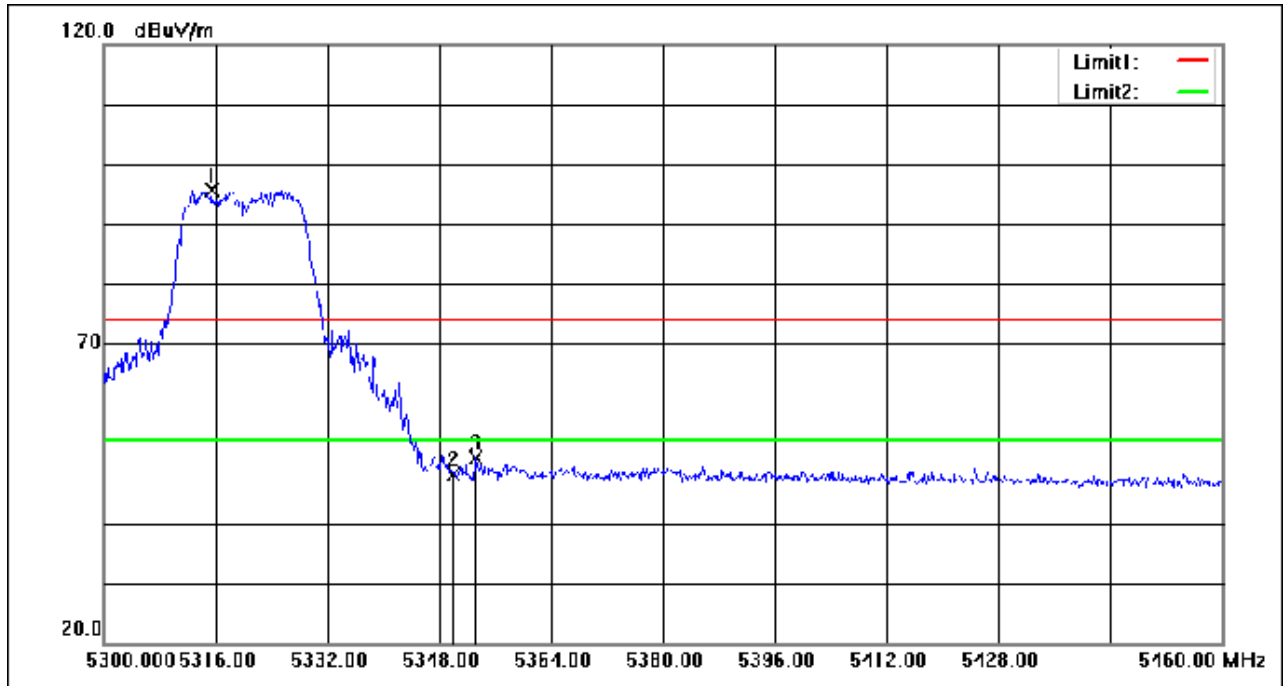
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5315.360	94.55	1.16	95.71	74.00	21.71	peak
2	5350.000	47.07	1.18	48.25	74.00	-25.75	peak
3	5353.280	49.59	1.18	50.77	74.00	-23.23	peak



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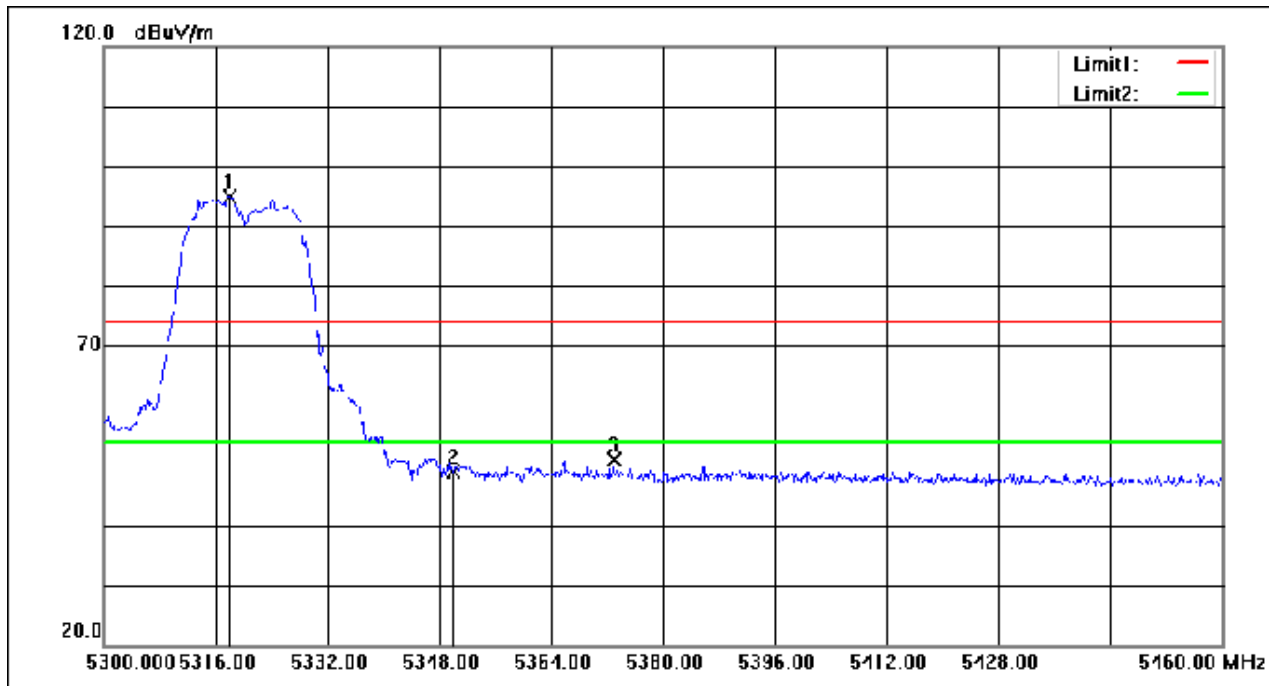
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1	5318.080	93.70	1.16	94.86	74.00	20.86	peak
2	5350.000	47.67	1.18	48.85	74.00	-25.15	peak
3	5372.960	49.65	1.19	50.84	74.00	-23.16	peak



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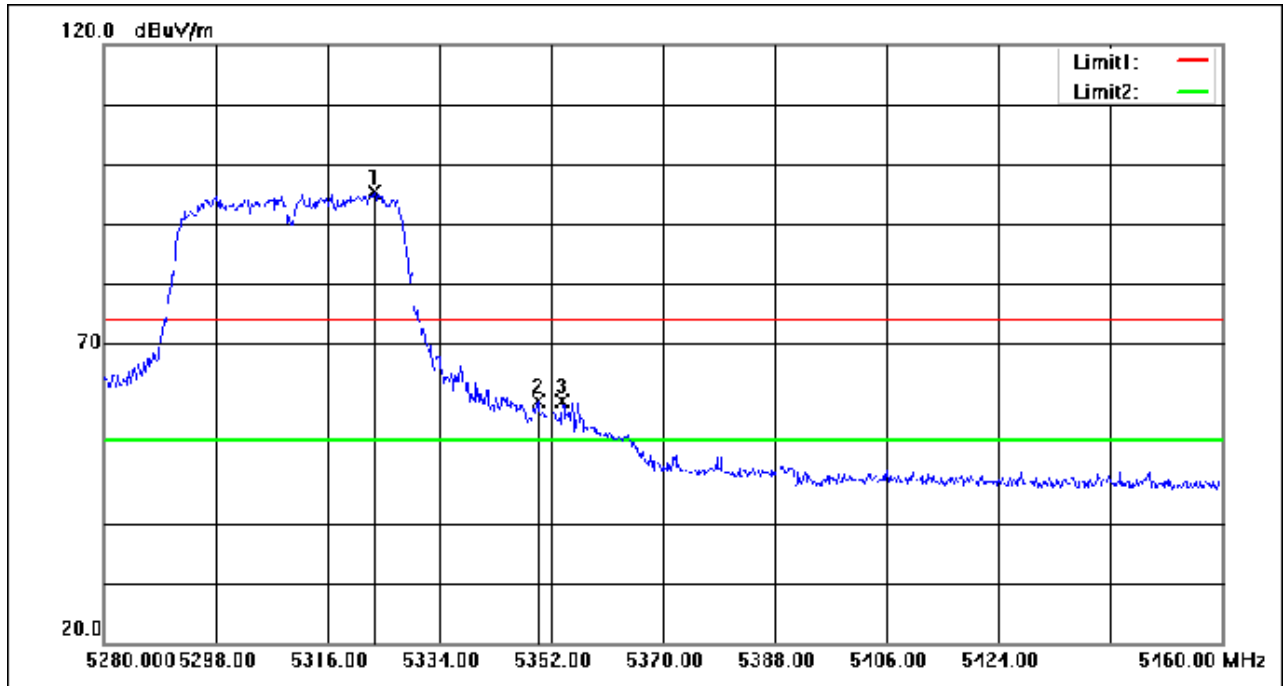
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5323.560	94.15	1.16	95.31	74.00	21.31	peak
2	5350.000	59.10	1.18	60.28	74.00	-13.72	peak
3	5353.800	59.20	1.18	60.38	74.00	-13.62	peak



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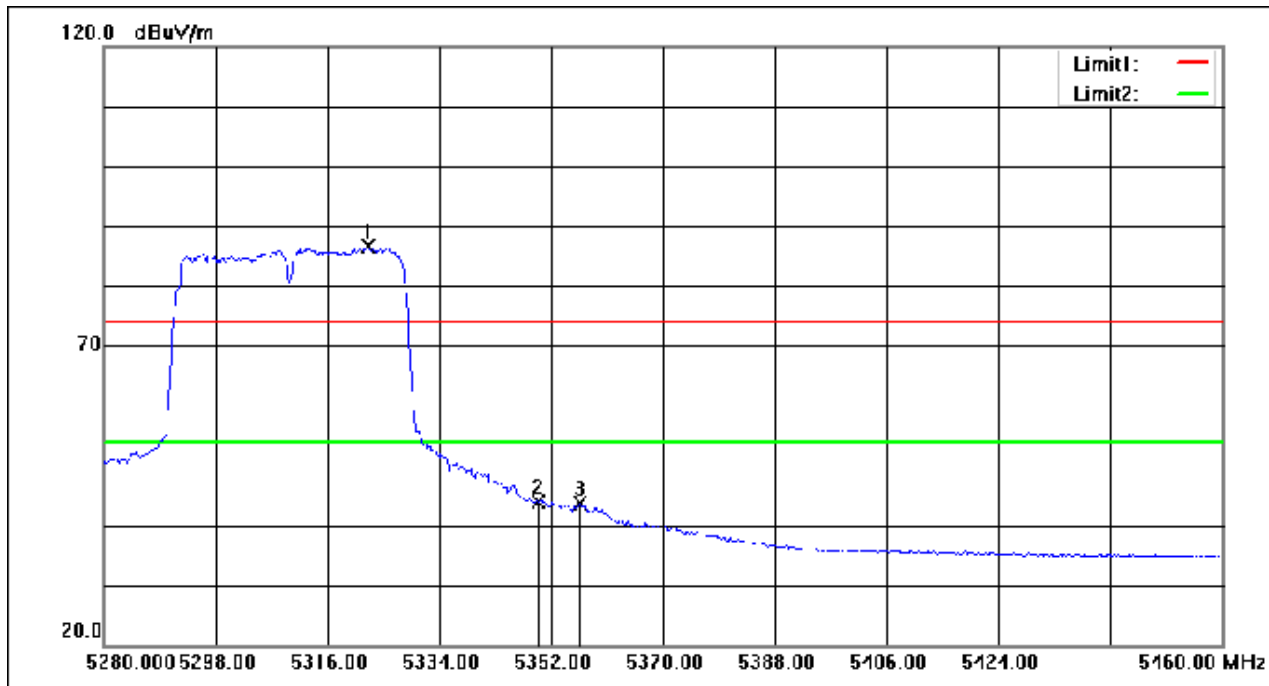
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5322.480	85.39	1.16	86.55	54.00	32.55	AVG
2	5350.000	42.62	1.18	43.80	54.00	-10.20	AVG
3	5356.680	42.45	1.18	43.63	54.00	-10.37	AVG



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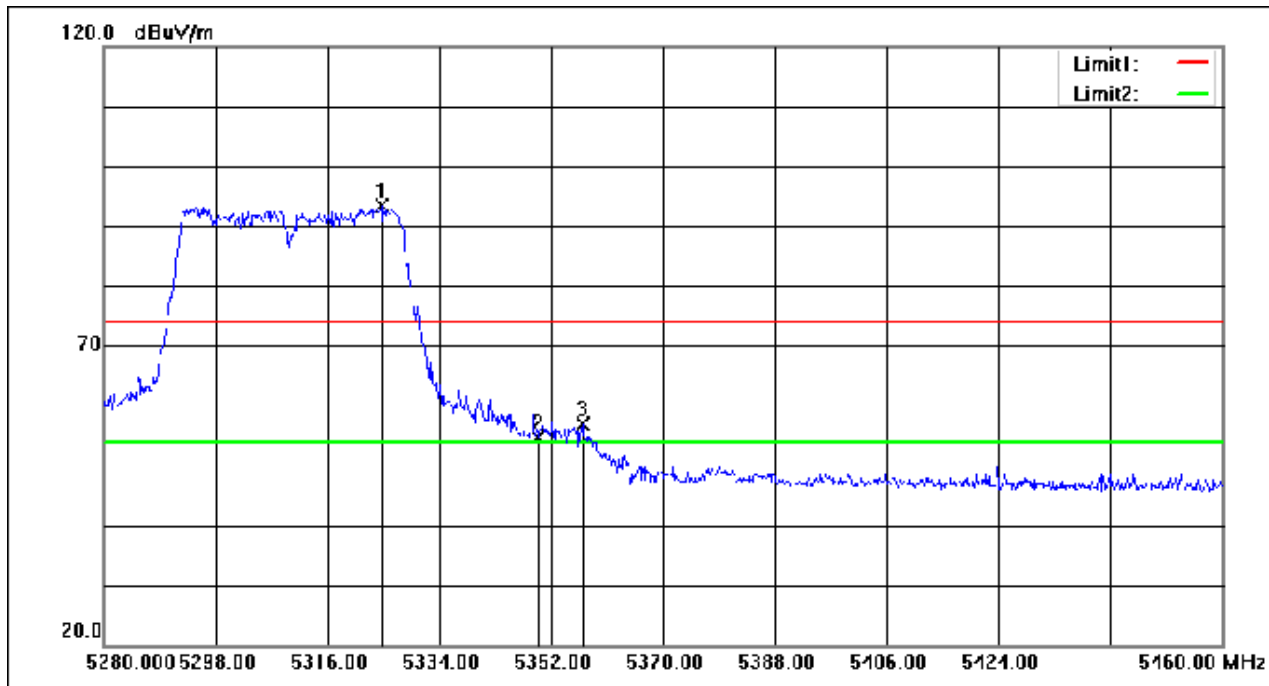
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5324.640	92.19	1.16	93.35	74.00	19.35	peak
2	5350.000	53.51	1.18	54.69	74.00	-19.31	peak
3	5357.040	55.80	1.18	56.98	74.00	-17.02	peak



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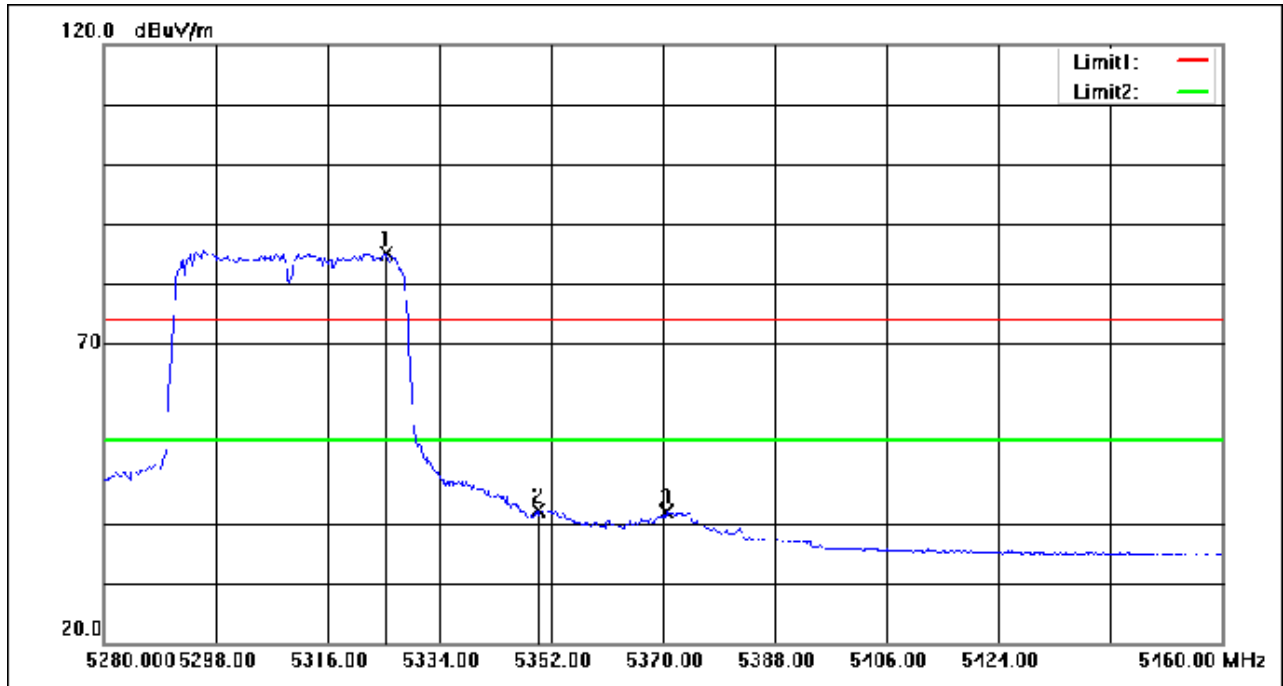
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5325.360	83.89	1.16	85.05	54.00	31.05	AVG
2	5350.000	40.83	1.18	42.01	54.00	-11.99	AVG
3	5370.540	40.66	1.19	41.85	54.00	-12.15	AVG



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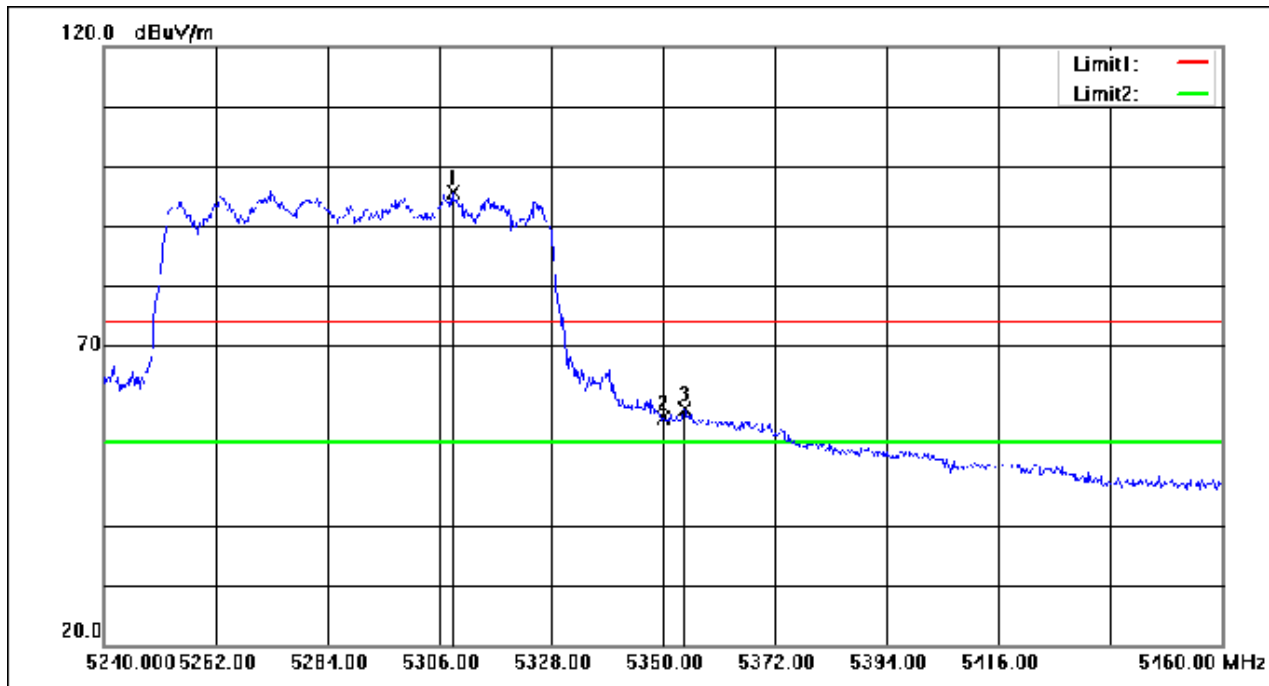
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5308.640	94.37	1.15	95.52	74.00	21.52	peak
2	5350.000	56.74	1.18	57.92	74.00	-16.08	peak
3	5354.180	58.15	1.18	59.33	74.00	-14.67	peak



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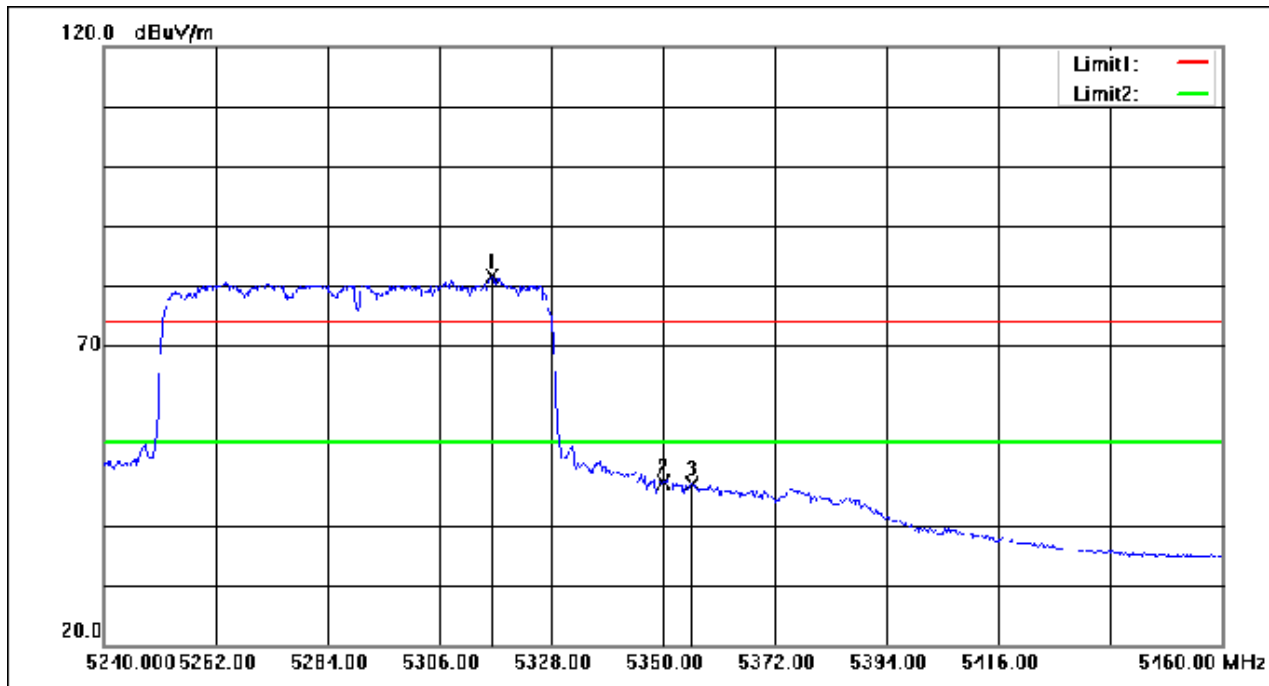
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5316.340	80.37	1.16	81.53	54.00	27.53	AVG
2	5350.000	45.99	1.18	47.17	54.00	-6.83	AVG
3	5355.720	45.59	1.18	46.77	54.00	-7.23	AVG



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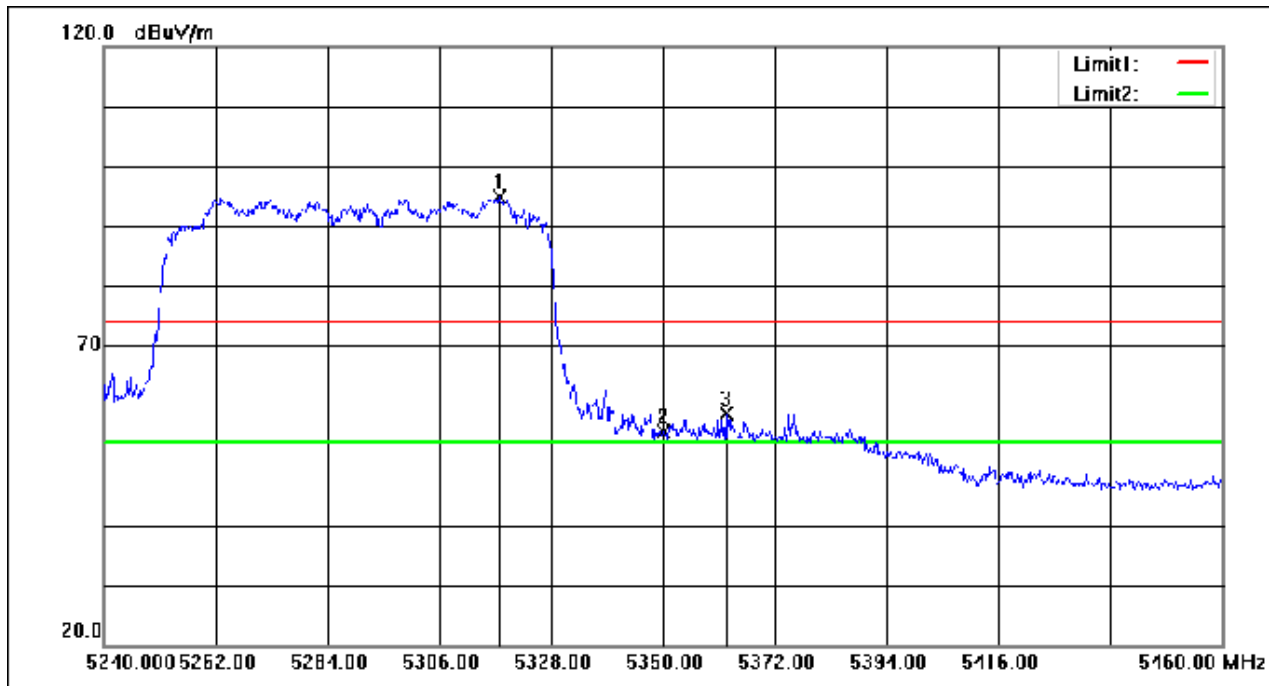
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5317.880	93.67	1.16	94.83	74.00	20.83	peak
2	5350.000	54.38	1.18	55.56	74.00	-18.44	peak
3	5362.320	57.35	1.18	58.53	74.00	-15.47	peak



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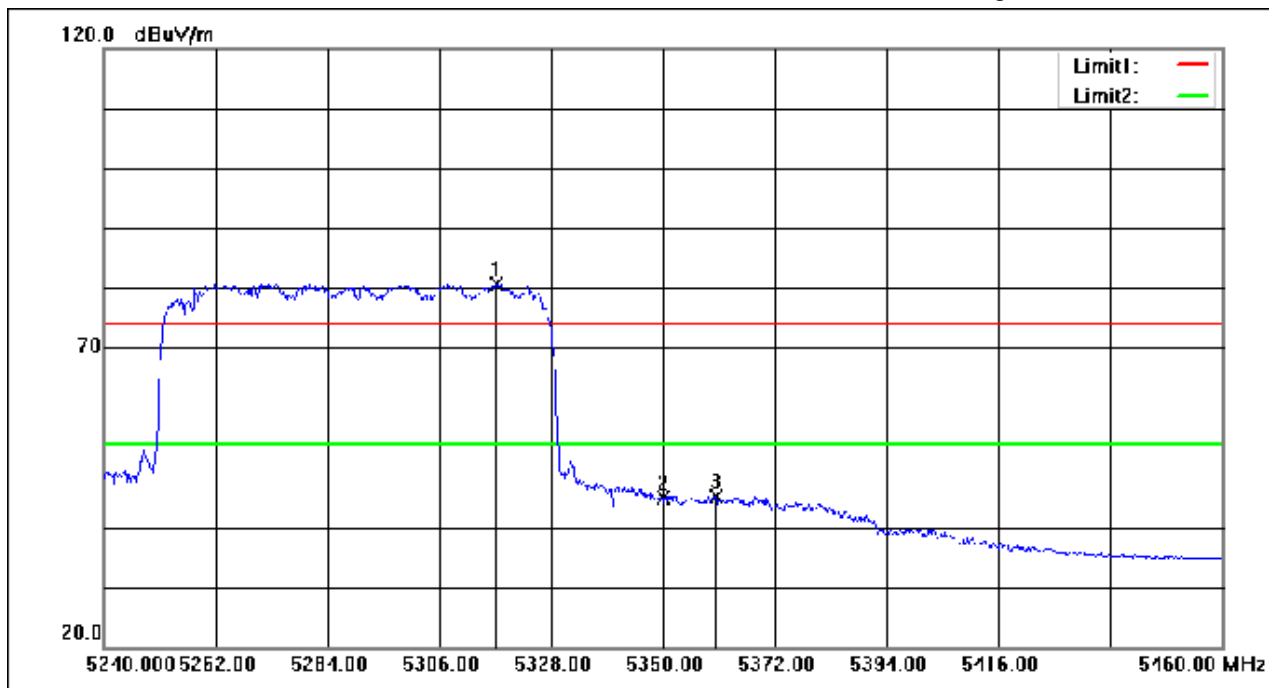
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Report No.: SHEM200900737903
Page: 62 of 224

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5317.220	79.49	1.16	80.65	54.00	26.65	AVG
2	5350.000	43.75	1.18	44.93	54.00	-9.07	AVG
3	5360.340	43.90	1.18	45.08	54.00	-8.92	AVG



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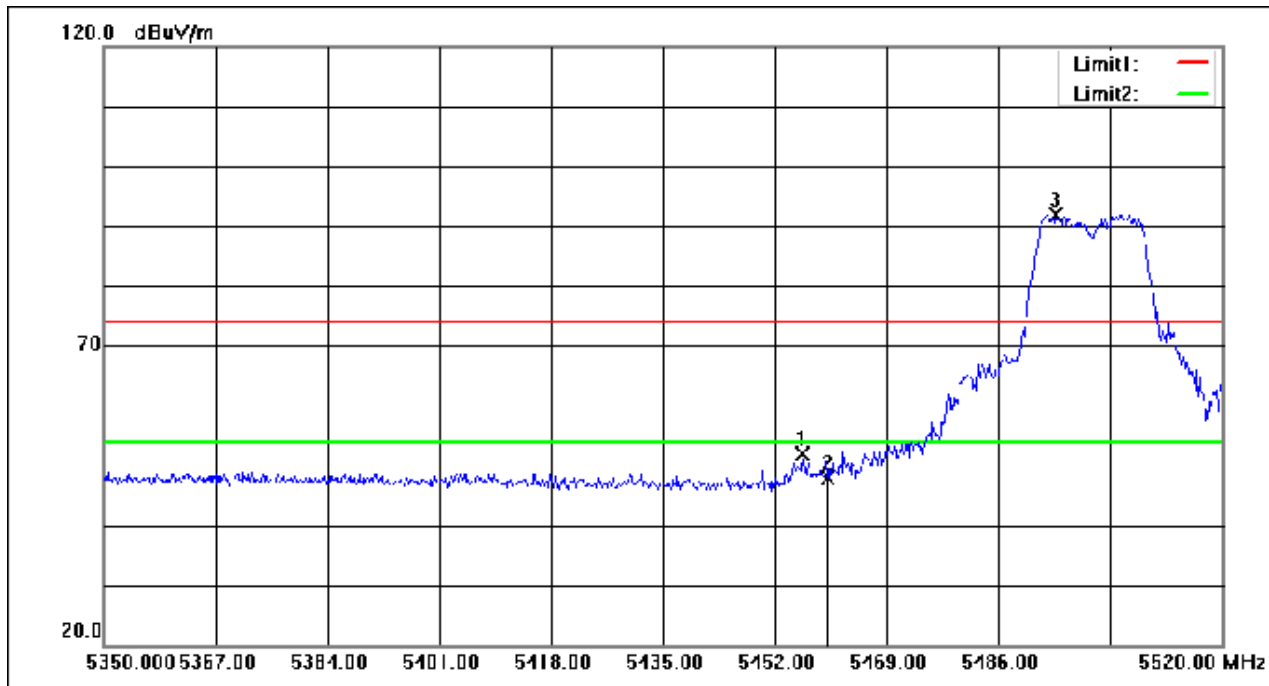
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Mode:f; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5456.080	50.71	1.24	51.95	74.00	-22.05	peak
2	5460.000	46.60	1.25	47.85	74.00	-26.15	peak
3	5494.670	90.61	1.27	91.88	74.00	17.88	peak



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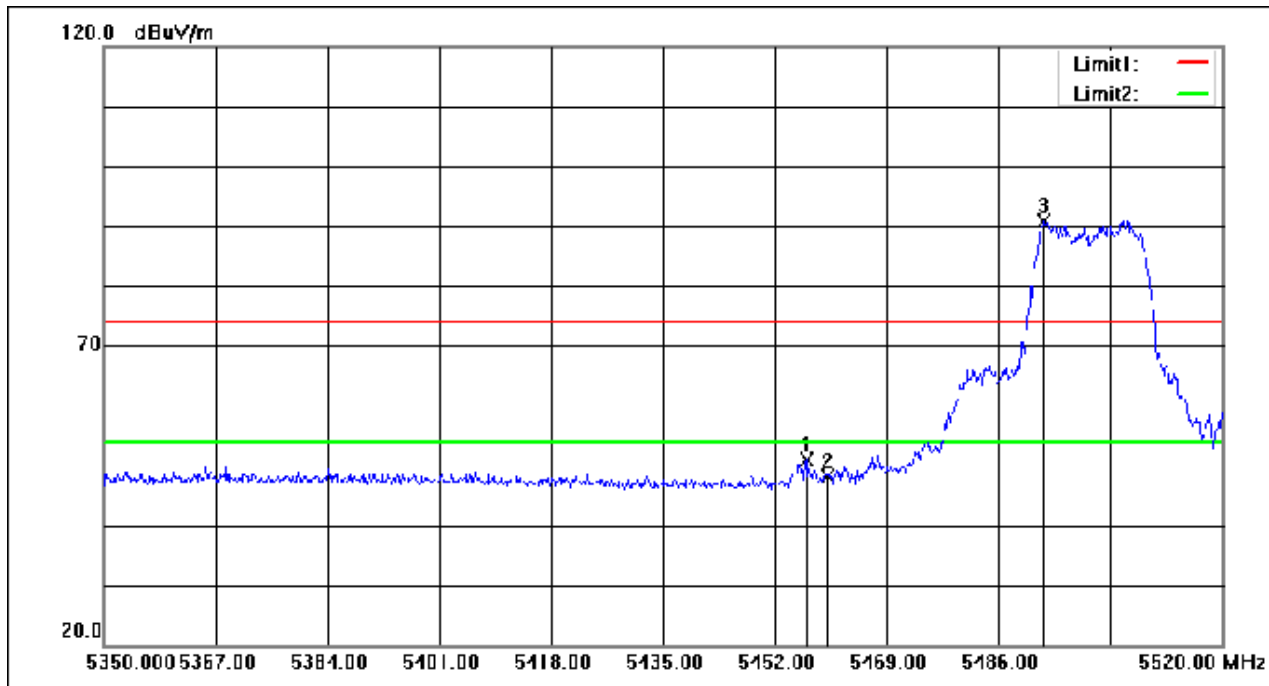
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Mode:f; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5456.760	49.55	1.24	50.79	74.00	-23.21	peak
2	5460.000	46.88	1.25	48.13	74.00	-25.87	peak
3	5492.970	89.58	1.27	90.85	74.00	16.85	peak



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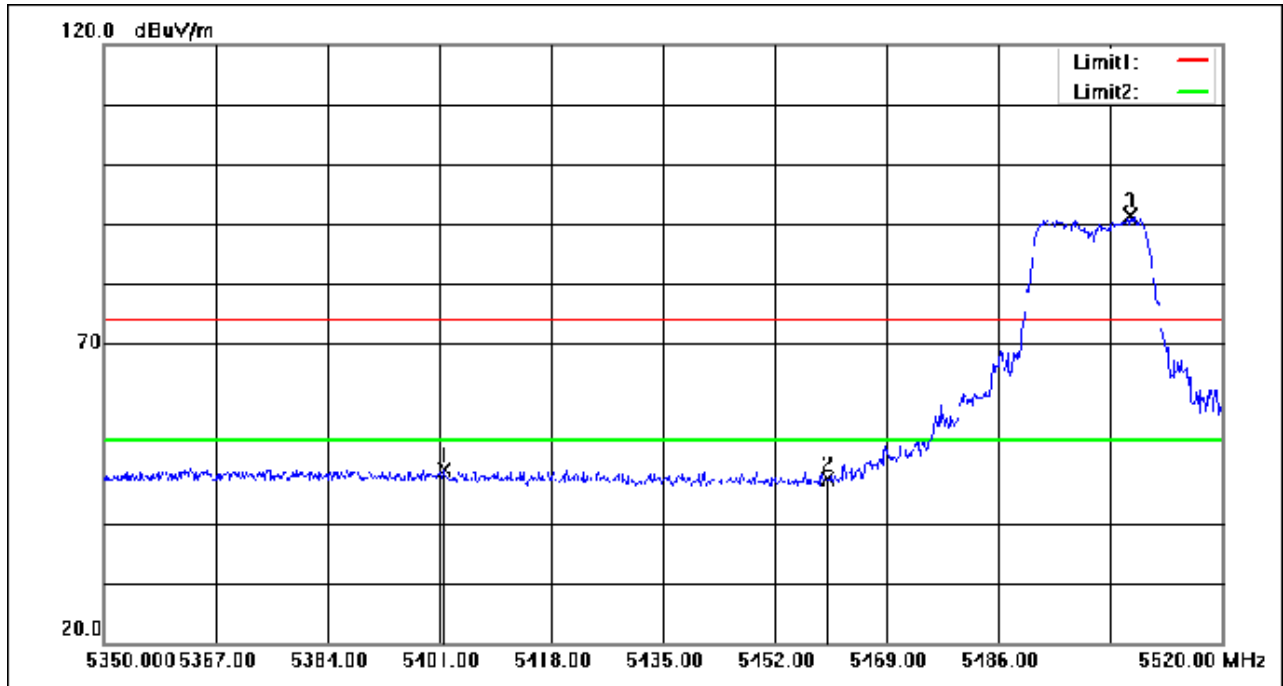
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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5401.680	47.74	1.21	48.95	74.00	-25.05	peak
2	5460.000	46.25	1.25	47.50	74.00	-26.50	peak
3	5506.060	90.08	1.31	91.39	74.00	17.39	peak



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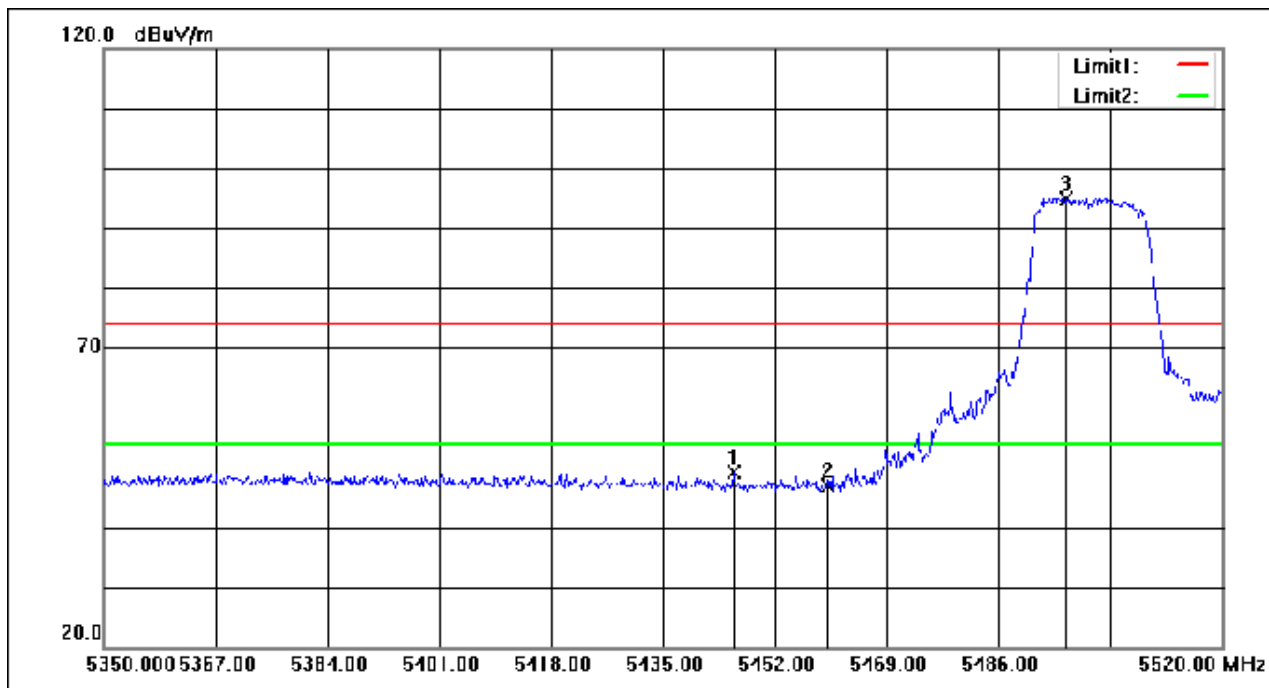
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5445.710	47.77	1.24	49.01	74.00	-24.99	peak
2	5460.000	45.65	1.25	46.90	74.00	-27.10	peak
3	5496.370	93.70	1.27	94.97	74.00	20.97	peak



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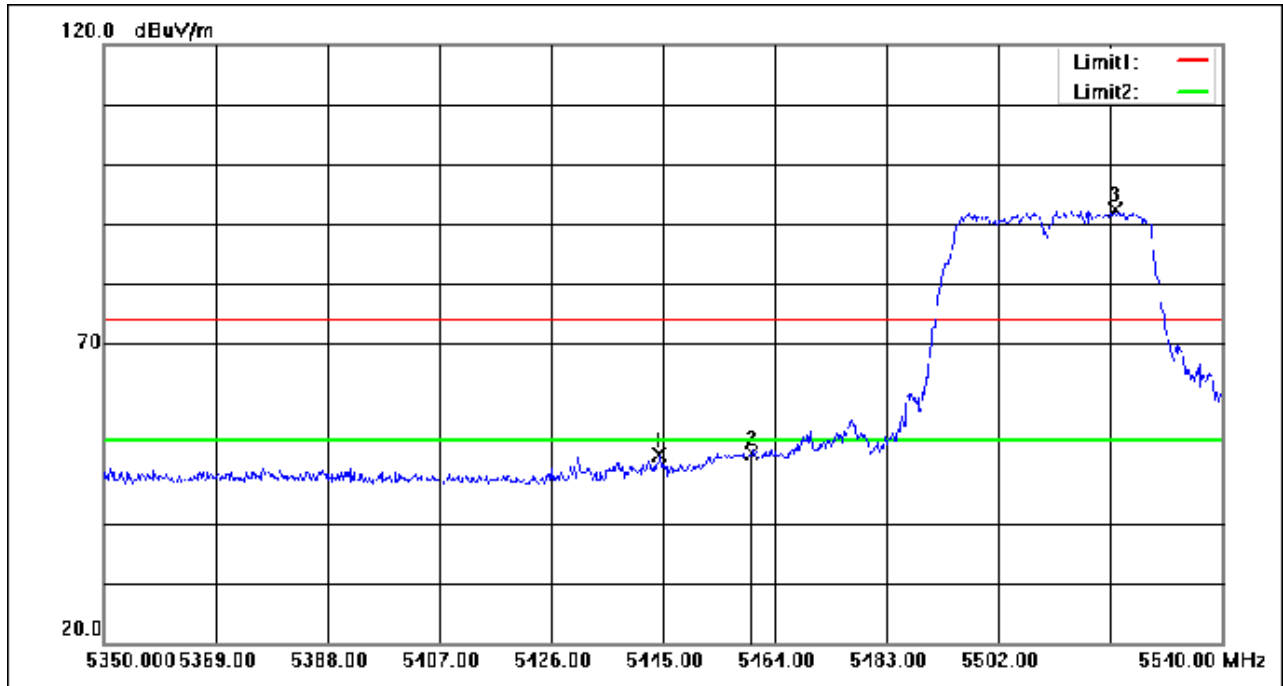
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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5444.430	50.08	1.24	51.32	74.00	-22.68	peak
2	5460.000	50.41	1.25	51.66	74.00	-22.34	peak
3	5521.950	90.93	1.41	92.34	74.00	18.34	peak



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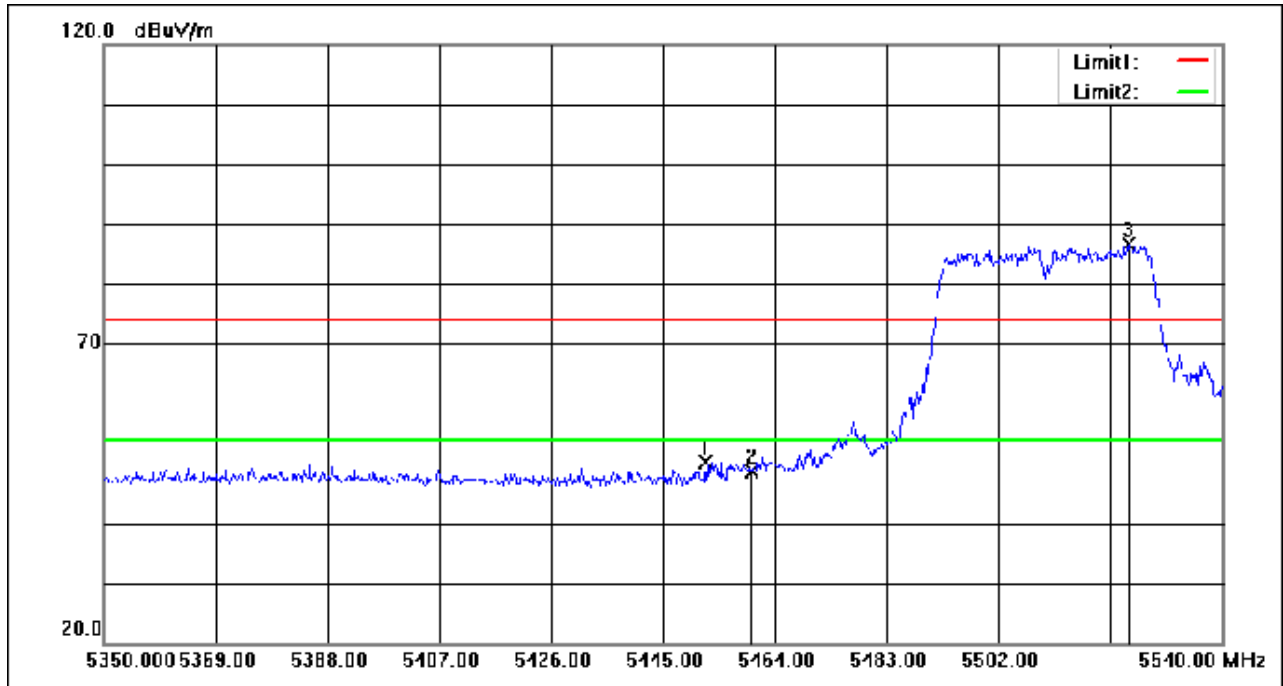


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(Shanghai) Co., Ltd.

Report No.: SHEM200900737903

Page: 68 of 224

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5452.220	48.92	1.24	50.16	74.00	-23.84	peak
2	5460.000	47.36	1.25	48.61	74.00	-25.39	peak
3	5524.040	85.25	1.42	86.67	74.00	12.67	peak



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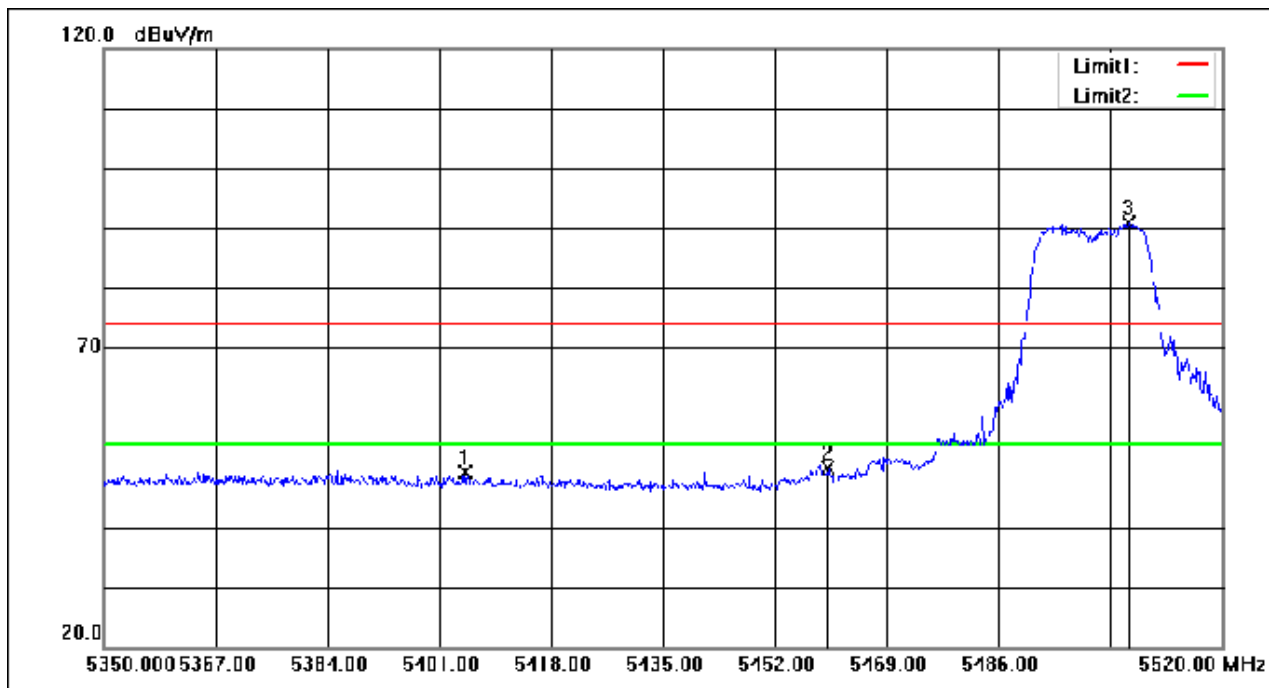
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Mode:f; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5404.910	47.95	1.21	49.16	74.00	-24.84	peak
2	5460.000	48.73	1.25	49.98	74.00	-24.02	peak
3	5505.890	89.62	1.31	90.93	74.00	16.93	peak



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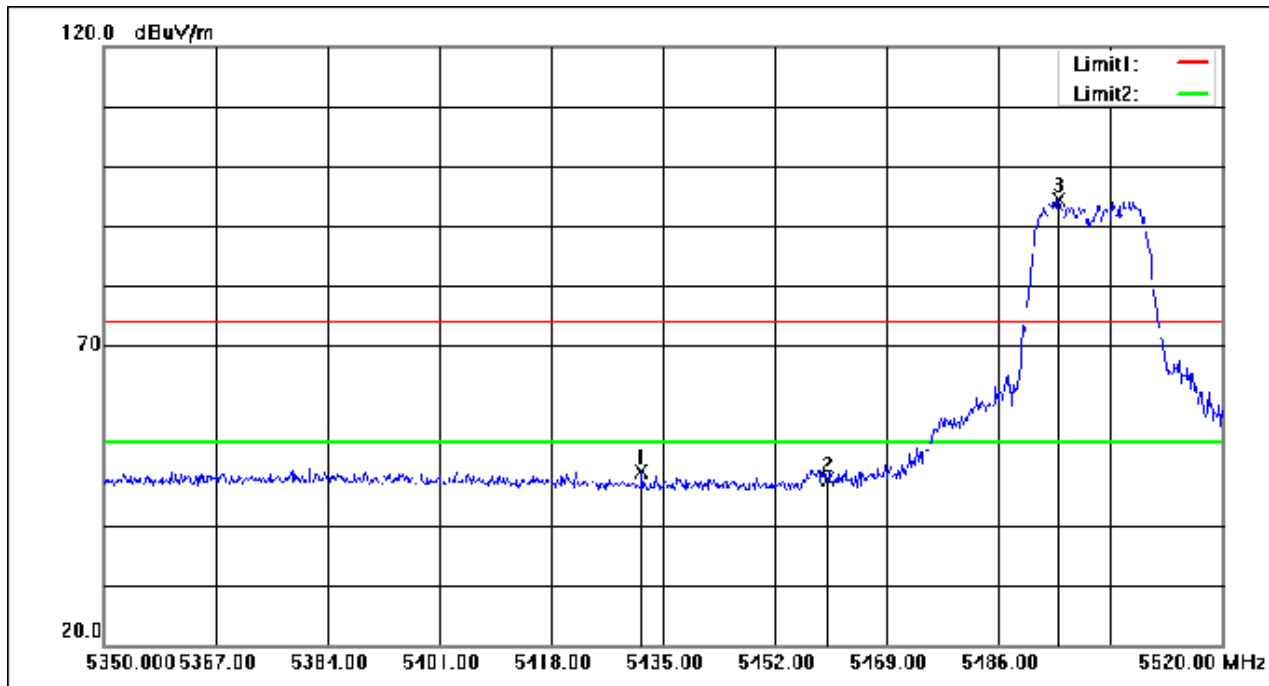
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Mode:f; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5431.770	47.68	1.23	48.91	74.00	-25.09	peak
2	5460.000	46.34	1.25	47.59	74.00	-26.41	peak
3	5495.180	93.20	1.27	94.47	74.00	20.47	peak



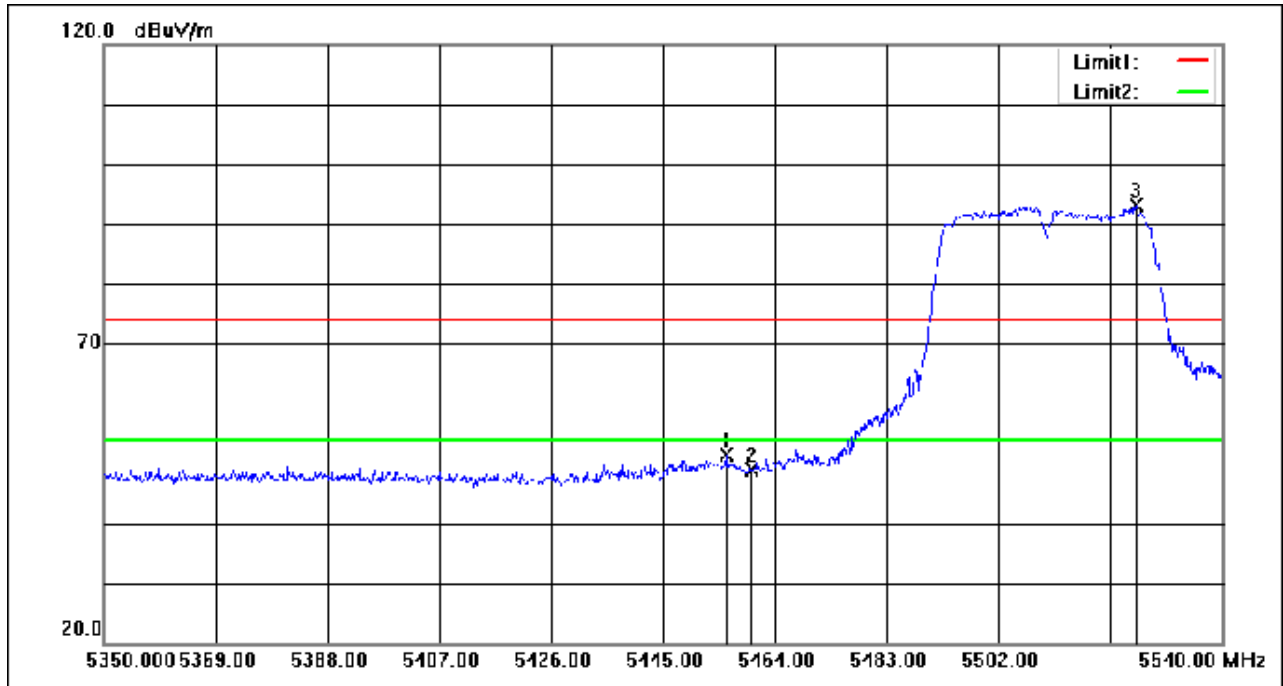
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Mode:f; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5455.640	50.16	1.24	51.40	74.00	-22.60	peak
2	5460.000	47.63	1.25	48.88	74.00	-25.12	peak
3	5525.370	91.66	1.43	93.09	74.00	19.09	peak



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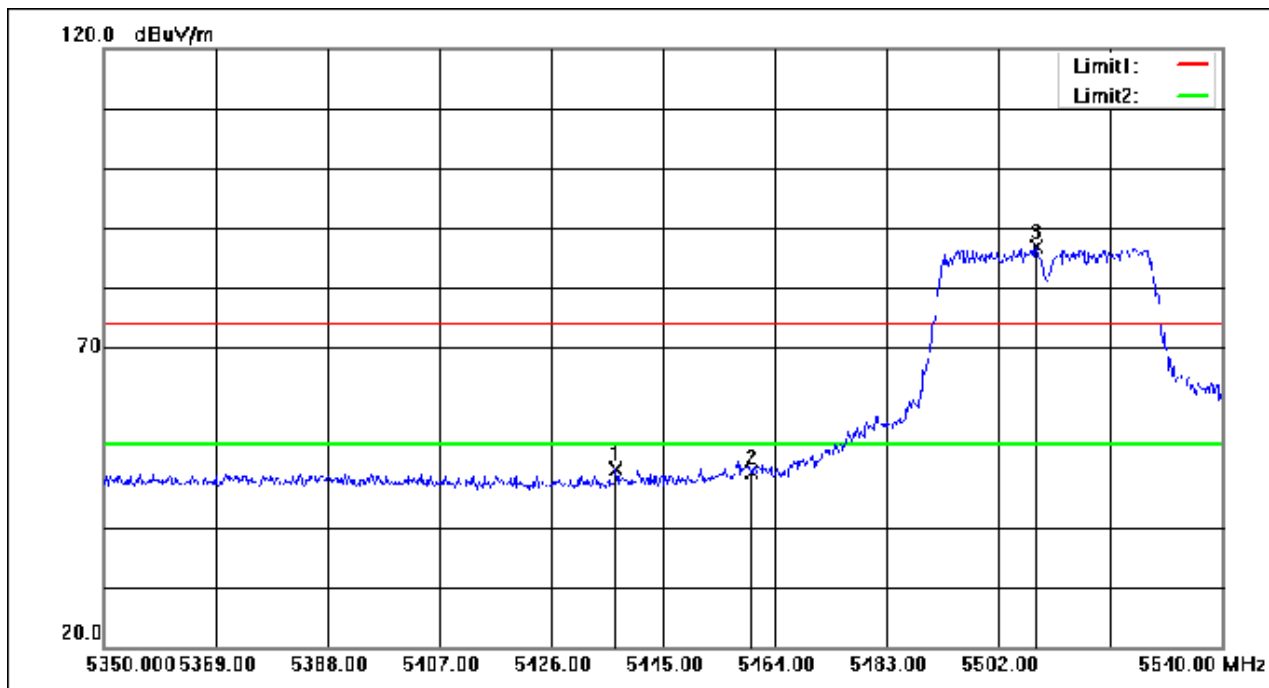
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Mode:f; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5437.020	48.33	1.23	49.56	74.00	-24.44	peak
2	5460.000	47.95	1.25	49.20	74.00	-24.80	peak
3	5508.460	85.46	1.32	86.78	74.00	12.78	peak



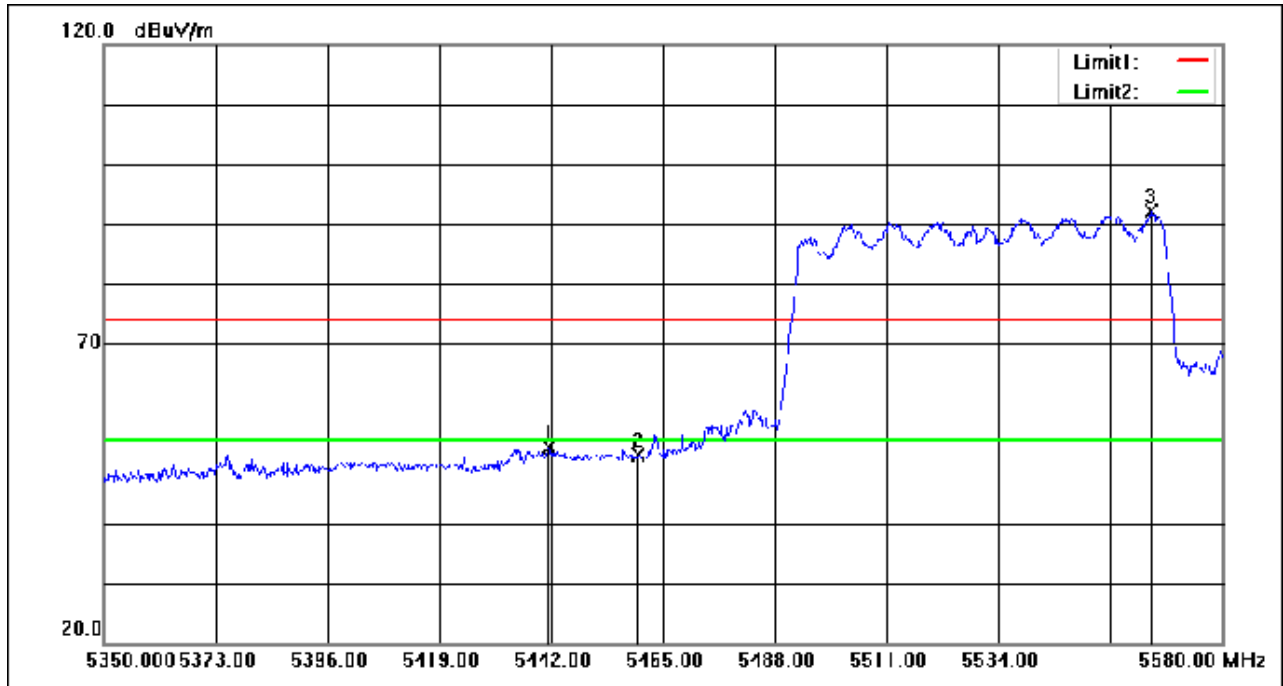
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Mode:f; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5441.540	51.42	1.23	52.65	74.00	-21.35	peak
2	5460.000	50.07	1.25	51.32	74.00	-22.68	peak
3	5565.280	90.56	1.68	92.24	74.00	18.24	peak



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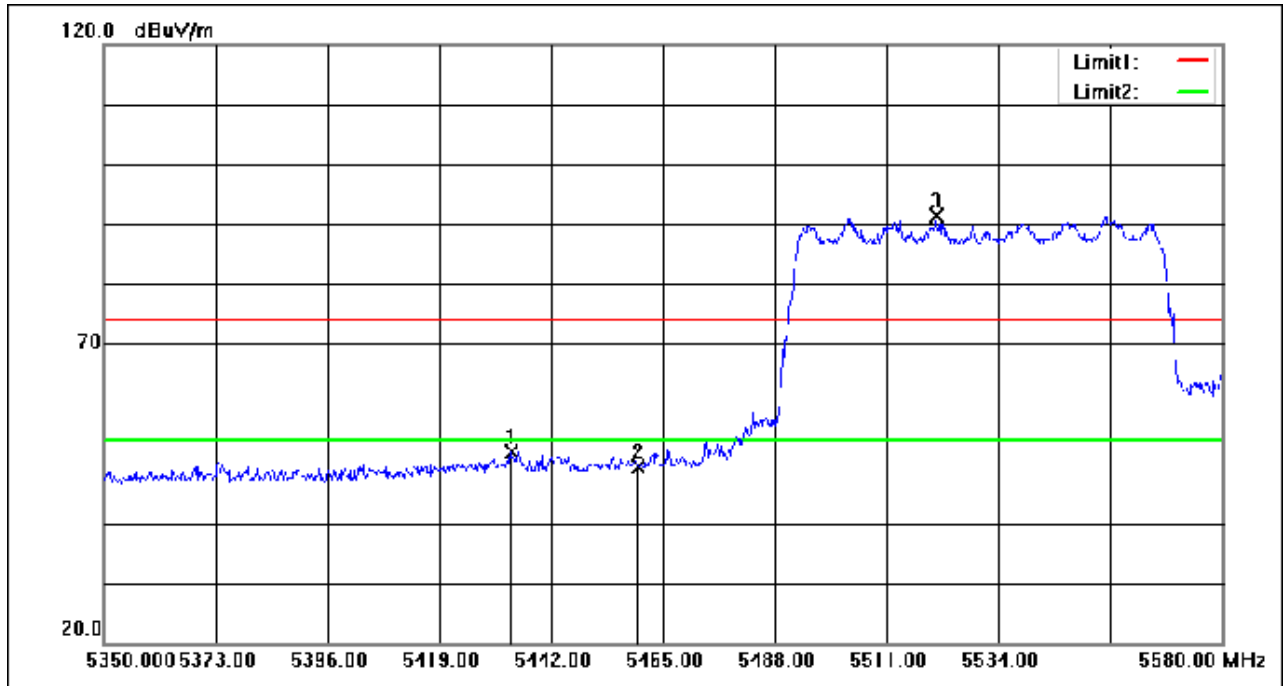


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Report No.: SHEM200900737903

Page: 74 of 224

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5433.720	50.69	1.23	51.92	74.00	-22.08	peak
2	5460.000	48.06	1.25	49.31	74.00	-24.69	peak
3	5521.120	89.90	1.40	91.30	74.00	17.30	peak



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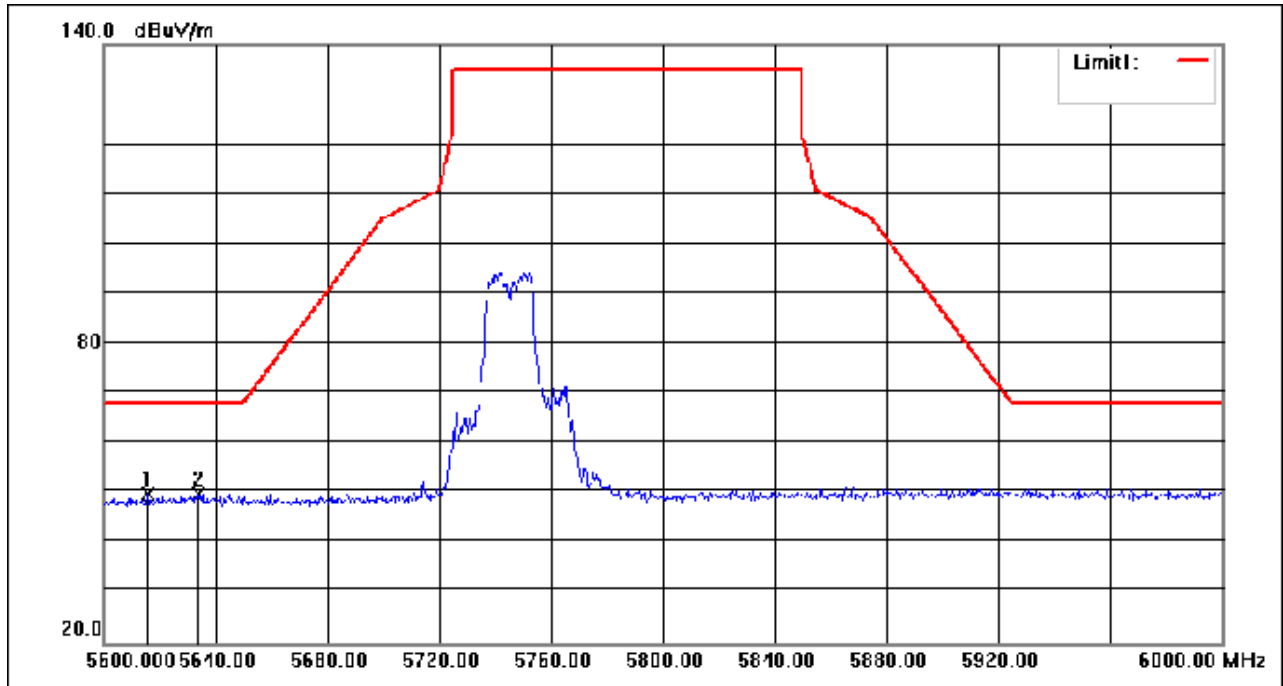
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Mode:g; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5615.600	47.86	2.00	49.86	68.20	-18.34	peak
2	5634.000	47.80	2.12	49.92	68.20	-18.28	peak



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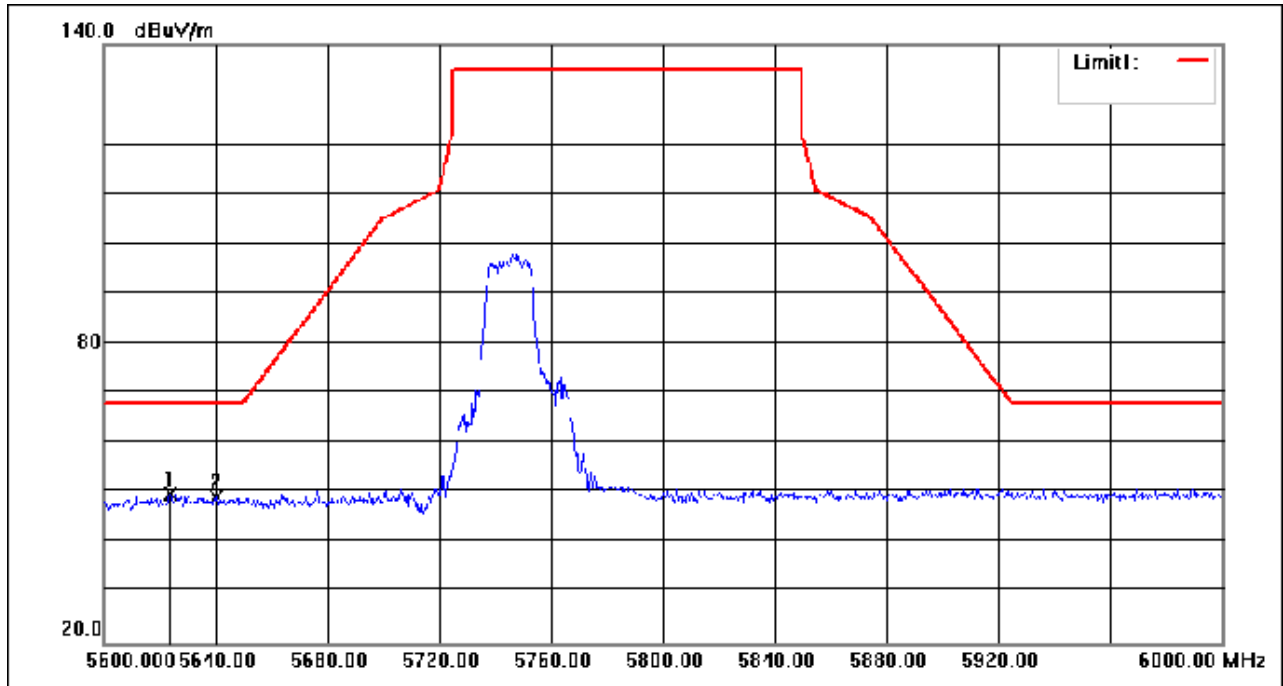
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Mode:g; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5623.600	47.71	2.05	49.76	68.20	-18.44	peak
2	5640.400	47.22	2.16	49.38	68.20	-18.82	peak



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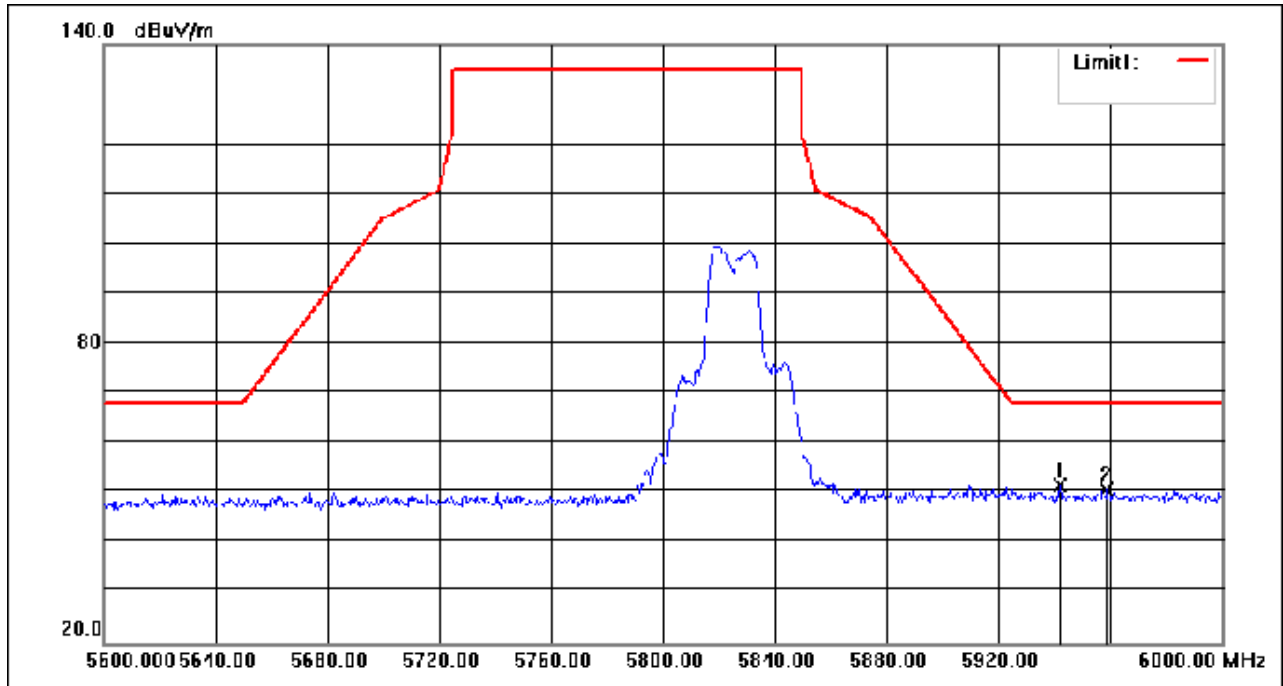
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Mode:g; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5942.000	47.49	4.06	51.55	68.20	-16.65	peak
2	5958.800	46.59	4.17	50.76	68.20	-17.44	peak



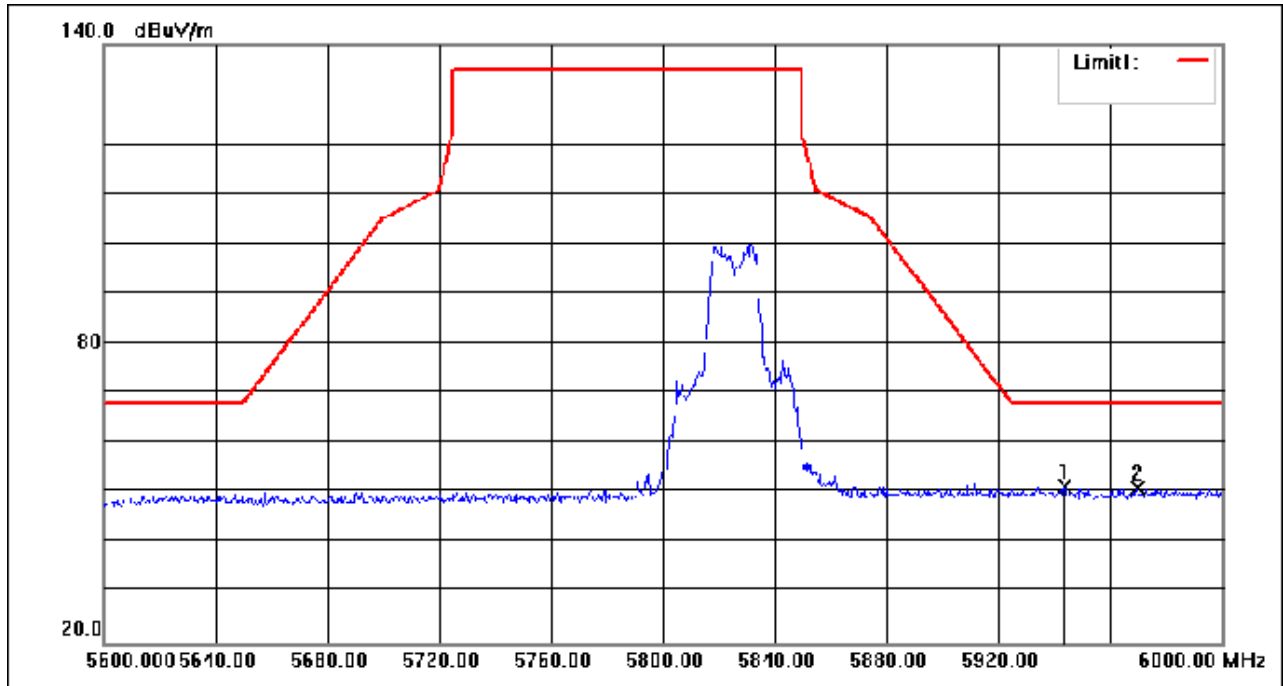
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Mode:g; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5943.600	47.29	4.07	51.36	68.20	-16.84	peak
2	5969.600	46.80	4.24	51.04	68.20	-17.16	peak



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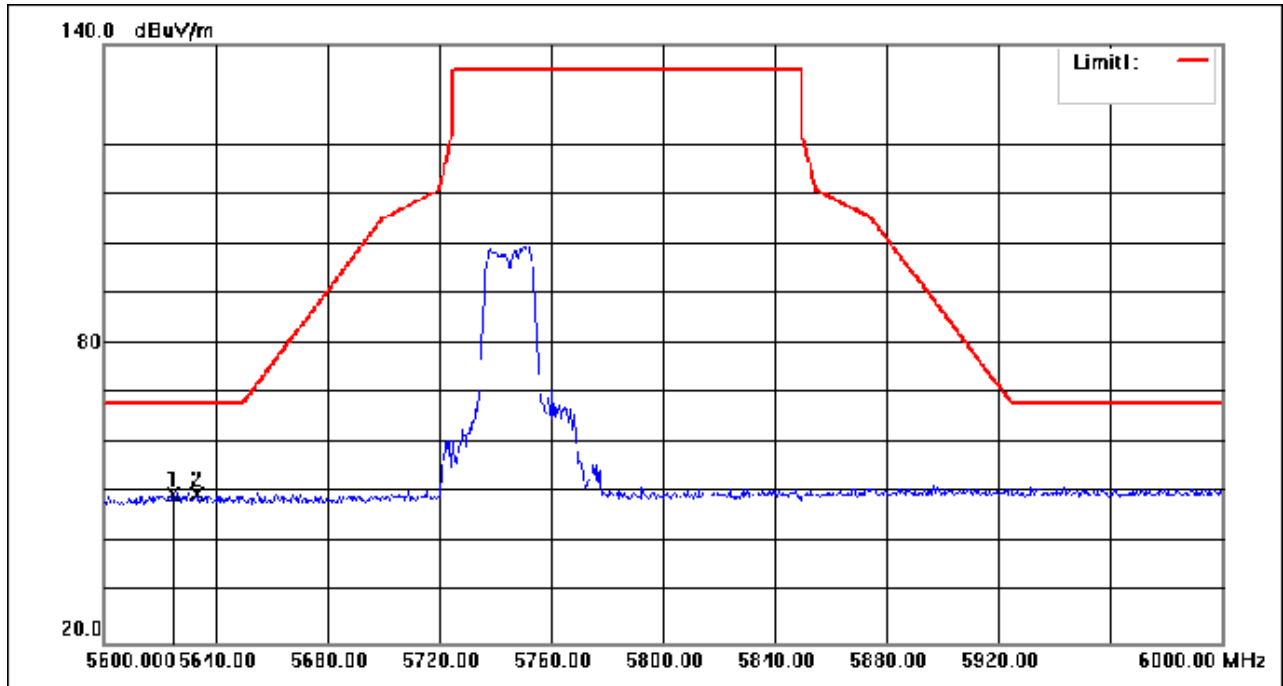
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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5624.800	47.72	2.06	49.78	68.20	-18.42	peak
2	5633.200	47.67	2.11	49.78	68.20	-18.42	peak



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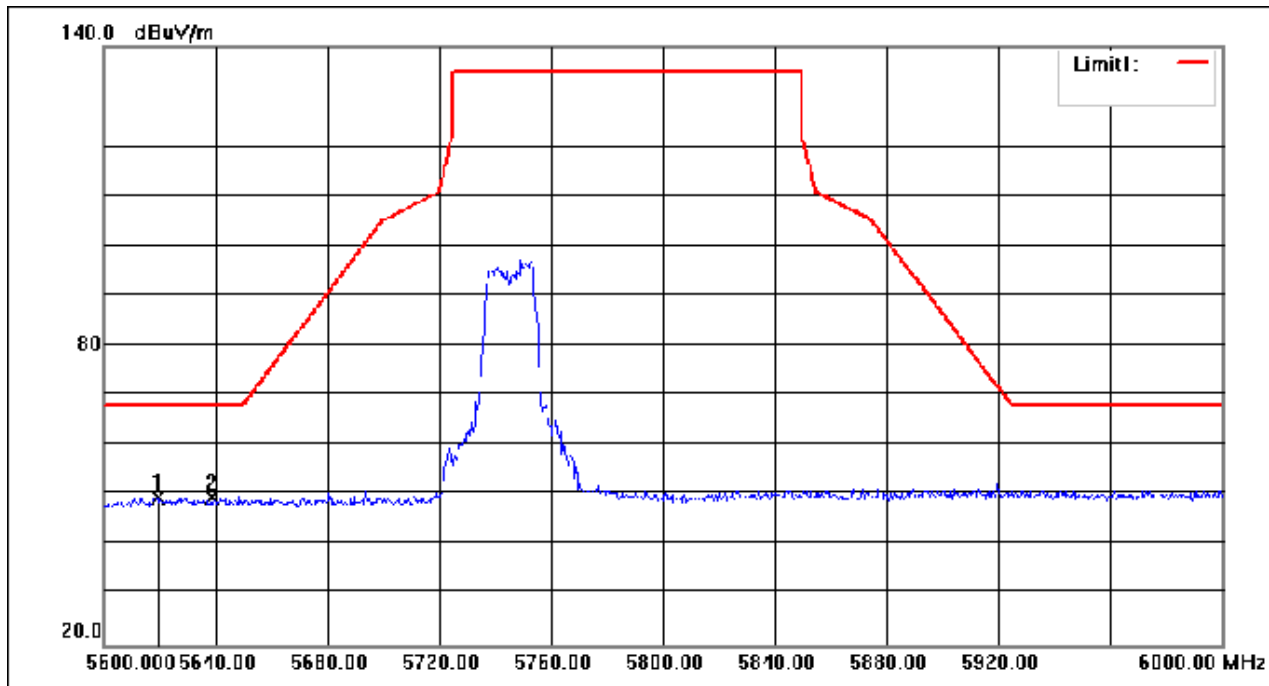
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5619.200	47.47	2.02	49.49	68.20	-18.71	peak
2	5638.800	47.42	2.15	49.57	68.20	-18.63	peak



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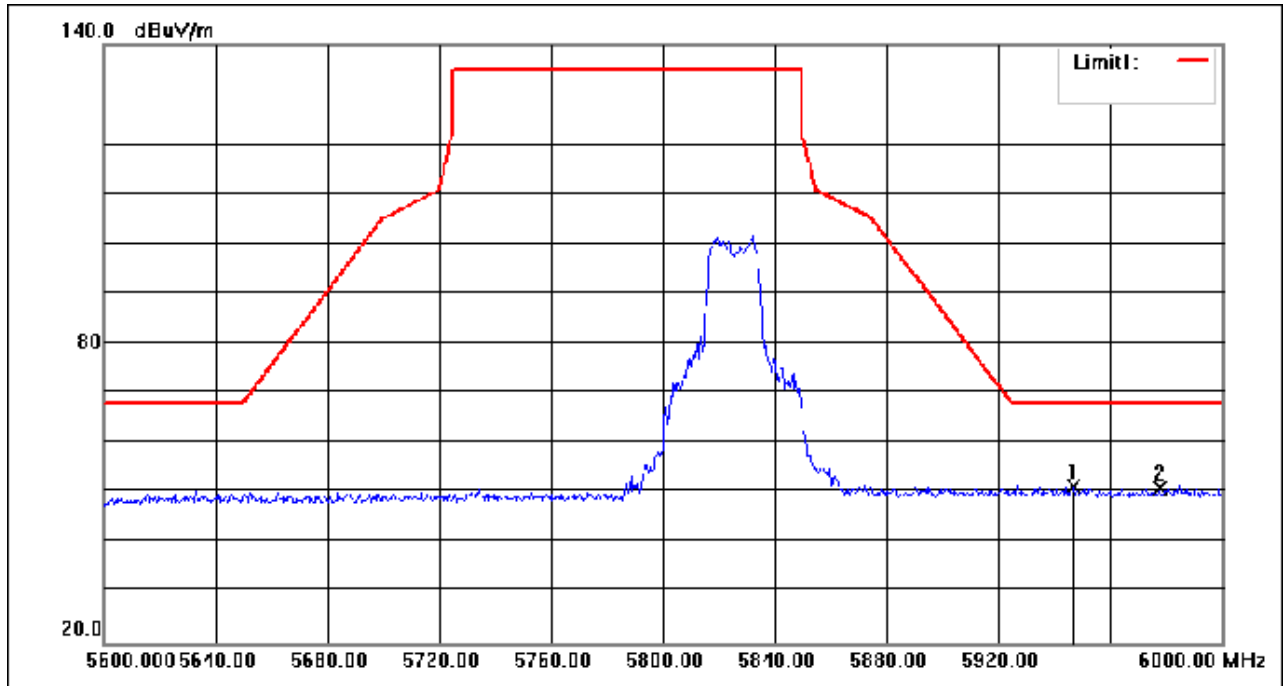
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5946.800	47.27	4.09	51.36	68.20	-16.84	peak
2	5977.600	46.80	4.29	51.09	68.20	-17.11	peak



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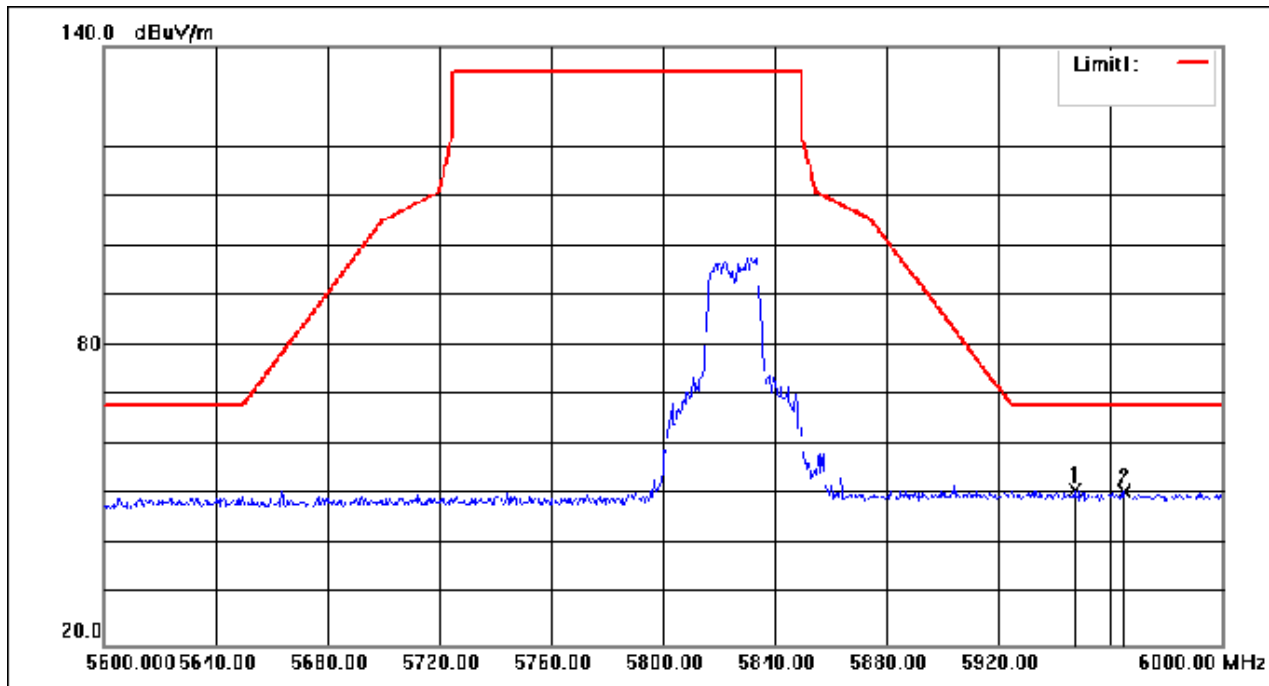
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5947.200	47.03	4.10	51.13	68.20	-17.07	peak
2	5964.800	46.46	4.21	50.67	68.20	-17.53	peak



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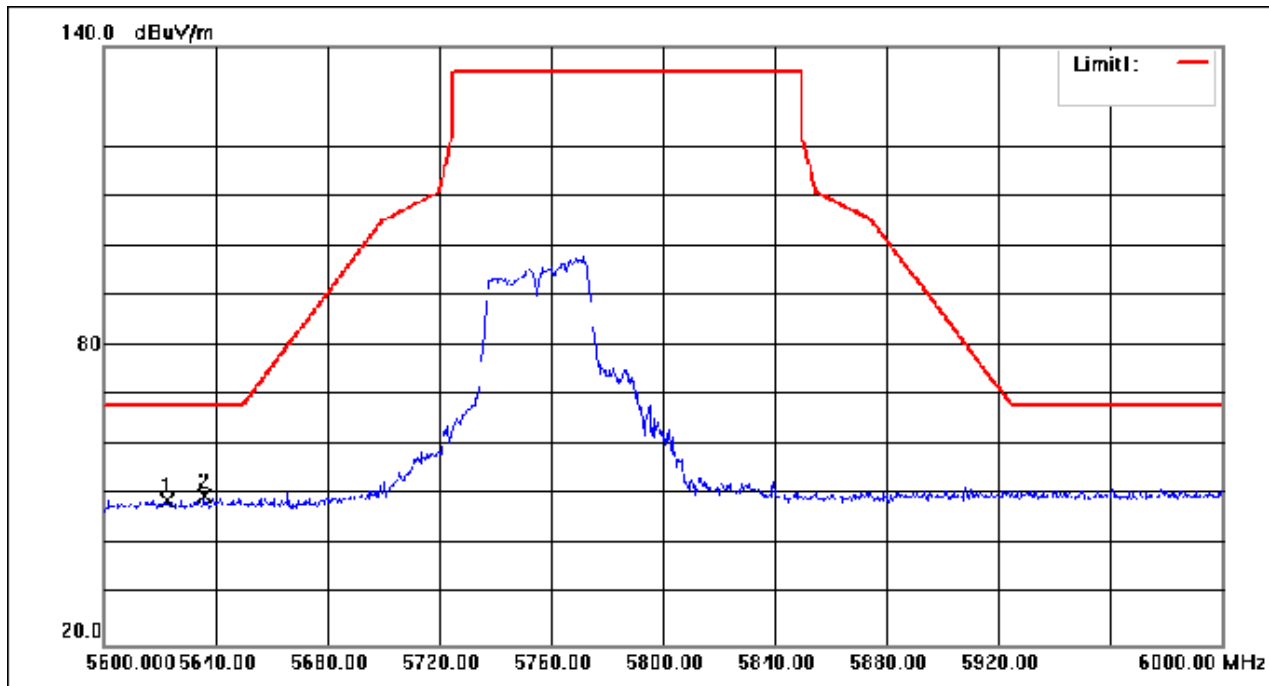
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5622.400	47.00	2.04	49.04	68.20	-19.16	peak
2	5636.000	47.85	2.13	49.98	68.20	-18.22	peak



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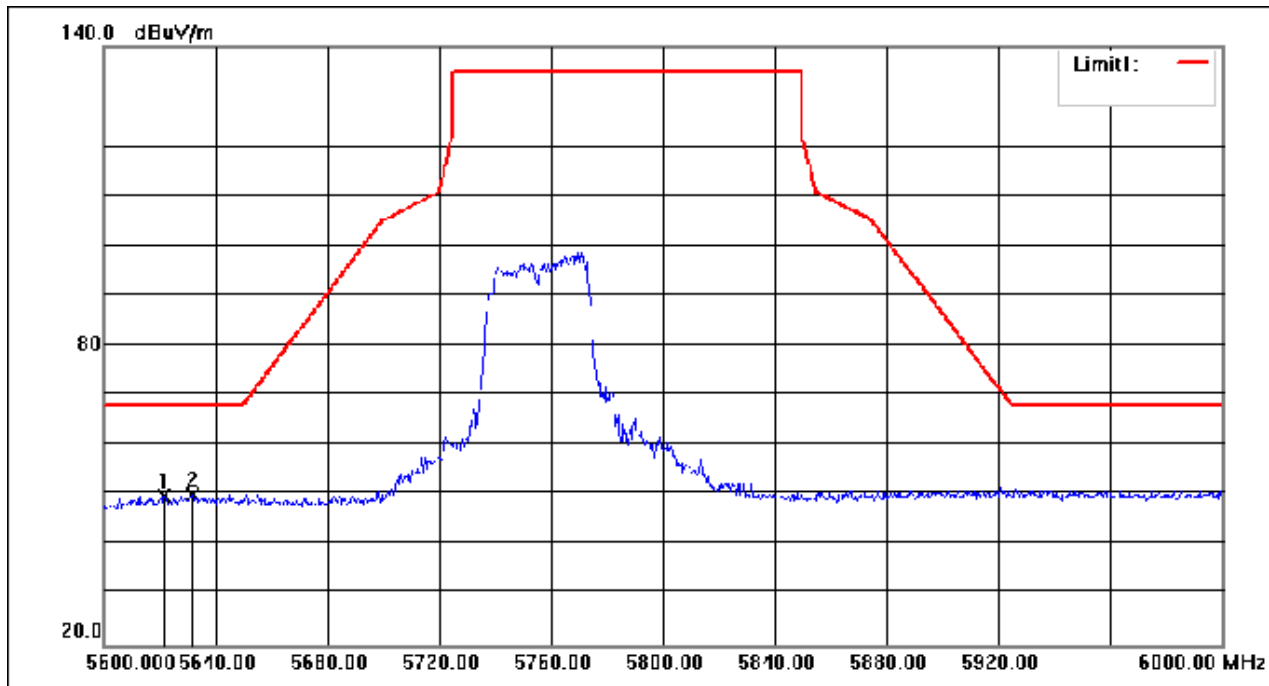
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5621.600	47.95	2.04	49.99	68.20	-18.21	peak
2	5631.600	48.09	2.10	50.19	68.20	-18.01	peak



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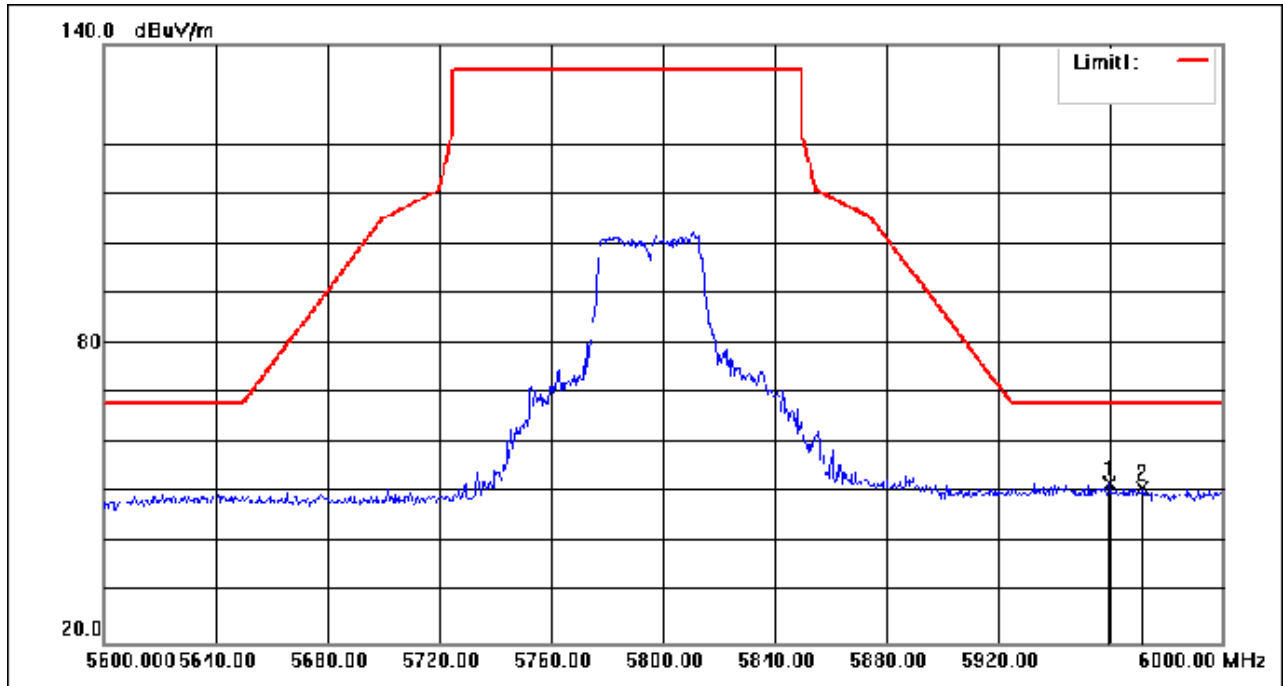
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5959.600	47.74	4.17	51.91	68.20	-16.29	peak
2	5971.600	46.67	4.25	50.92	68.20	-17.28	peak



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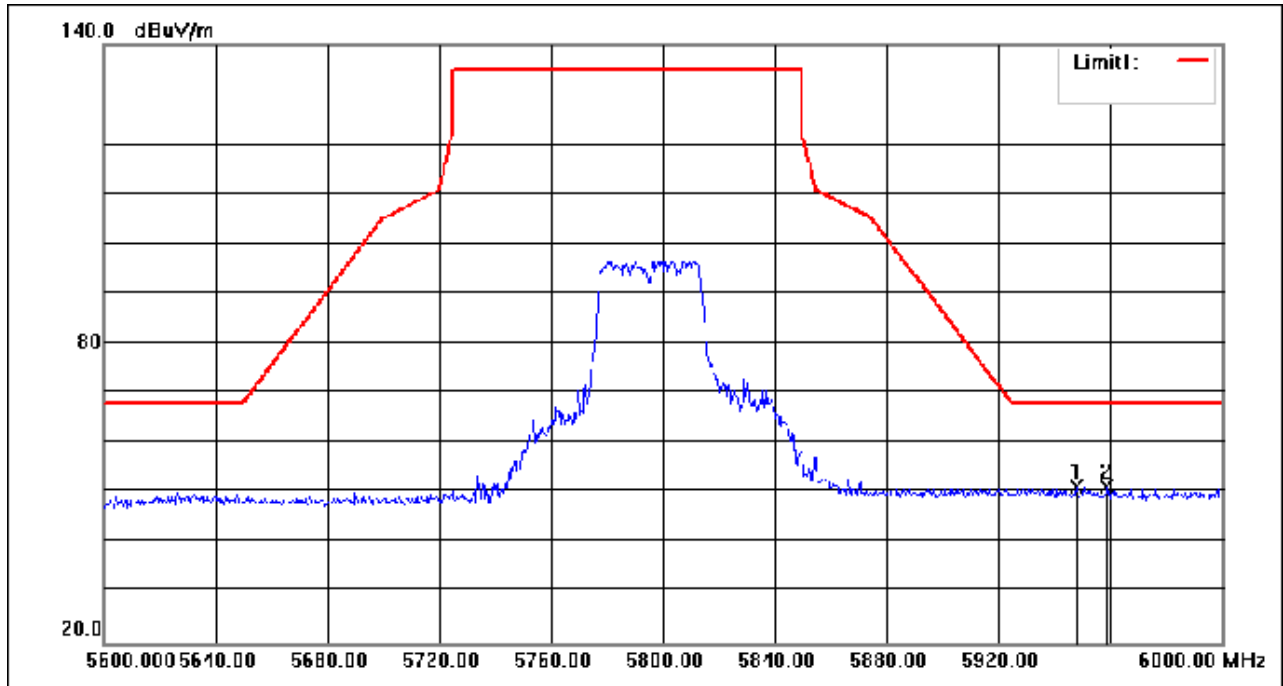
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5948.000	47.22	4.10	51.32	68.20	-16.88	peak
2	5958.800	47.24	4.17	51.41	68.20	-16.79	peak



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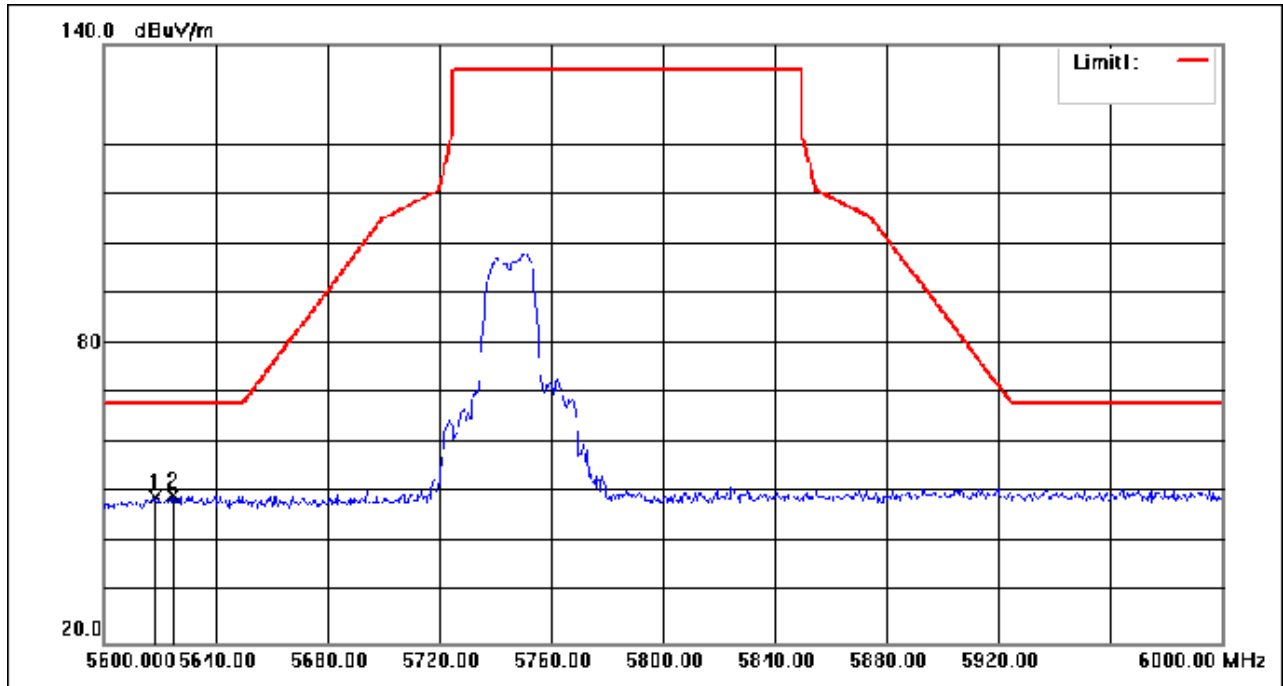
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5618.400	47.08	2.02	49.10	68.20	-19.10	peak
2	5624.800	47.63	2.06	49.69	68.20	-18.51	peak



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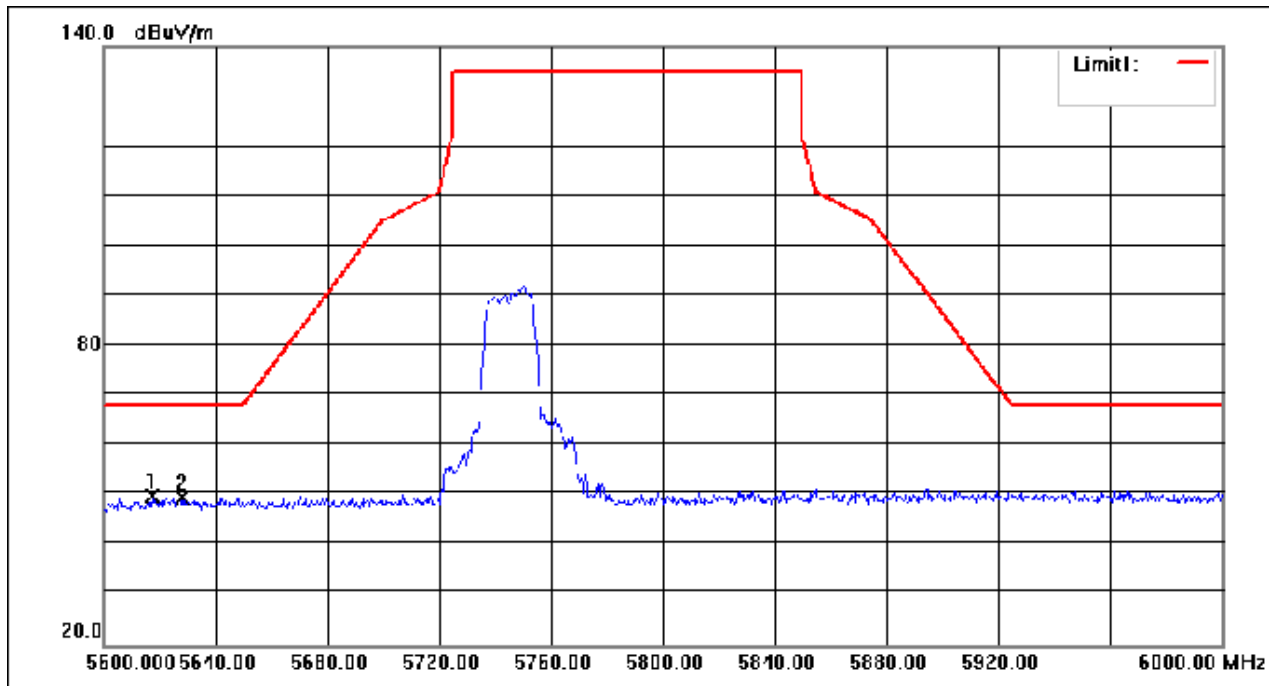
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1	5617.200	47.92	2.01	49.93	68.20	-18.27	peak
2	5628.000	47.37	2.08	49.45	68.20	-18.75	peak



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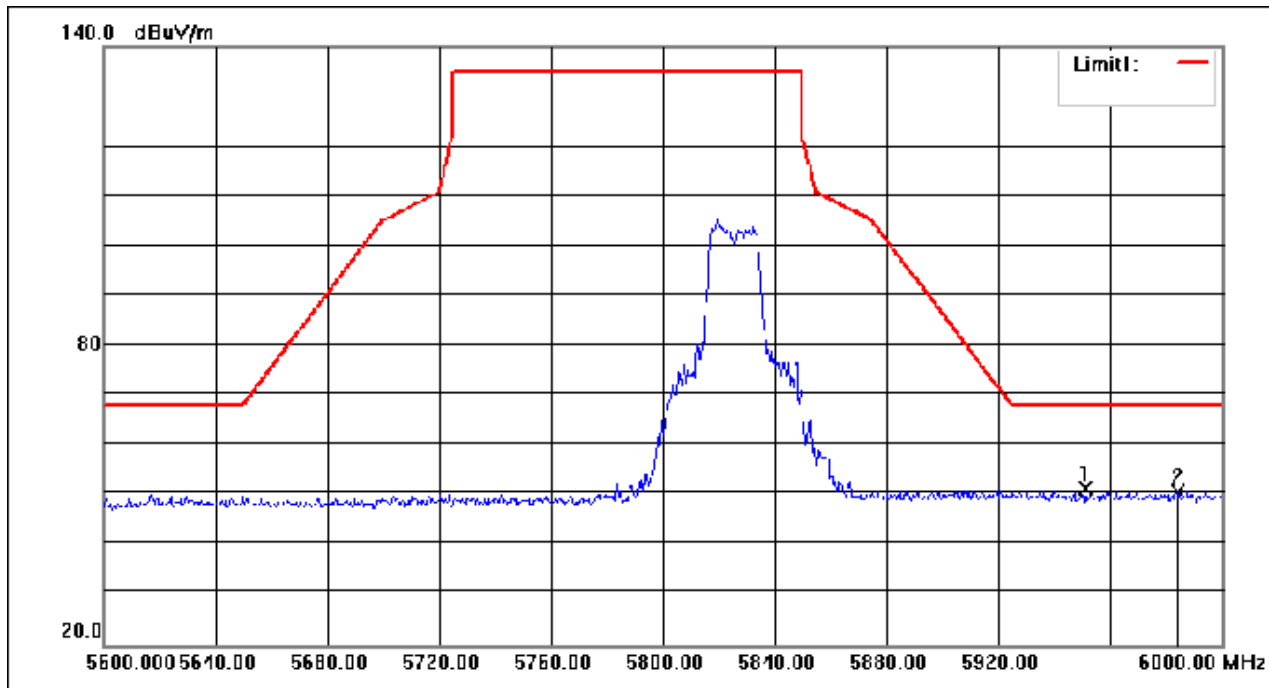
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5951.200	47.11	4.12	51.23	68.20	-16.97	peak
2	5984.400	46.39	4.33	50.72	68.20	-17.48	peak



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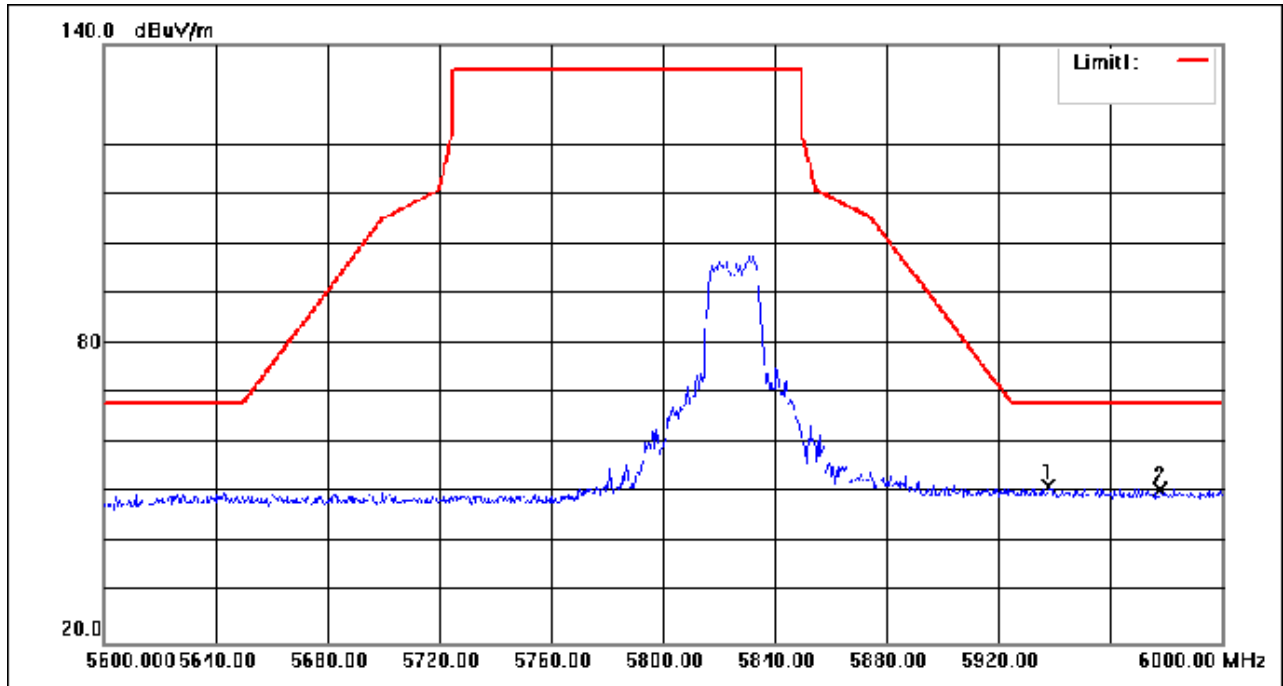
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Mode:g; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5938.000	47.27	4.04	51.31	68.20	-16.89	peak
2	5978.000	46.54	4.29	50.83	68.20	-17.37	peak



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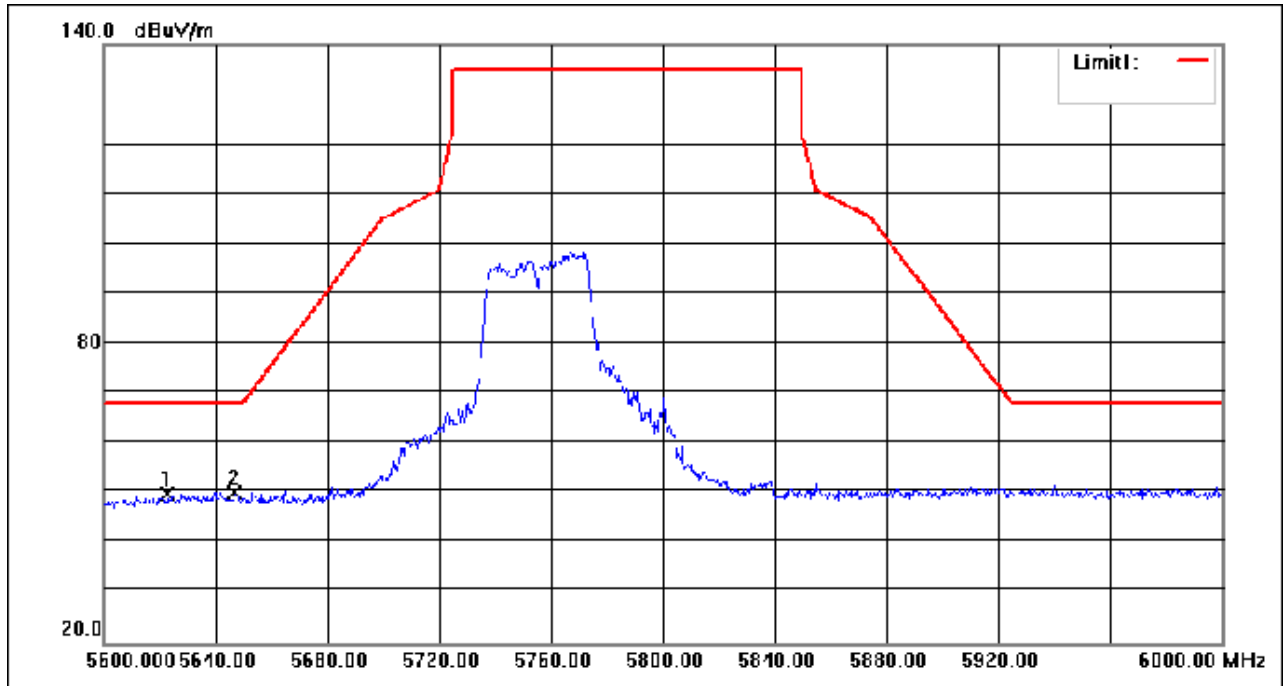
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Mode:g; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5622.800	47.74	2.05	49.79	68.20	-18.41	peak
2	5646.800	48.10	2.20	50.30	68.20	-17.90	peak



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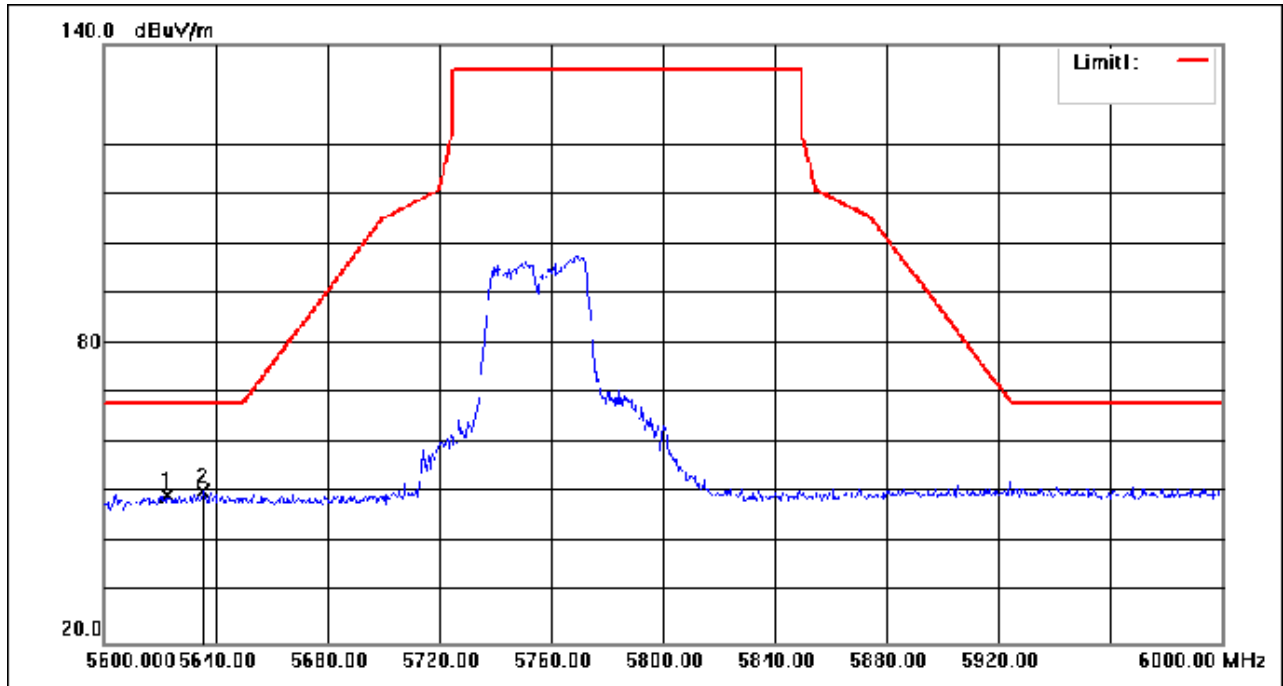
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Mode:g; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5622.400	47.50	2.04	49.54	68.20	-18.66	peak
2	5635.200	48.30	2.12	50.42	68.20	-17.78	peak



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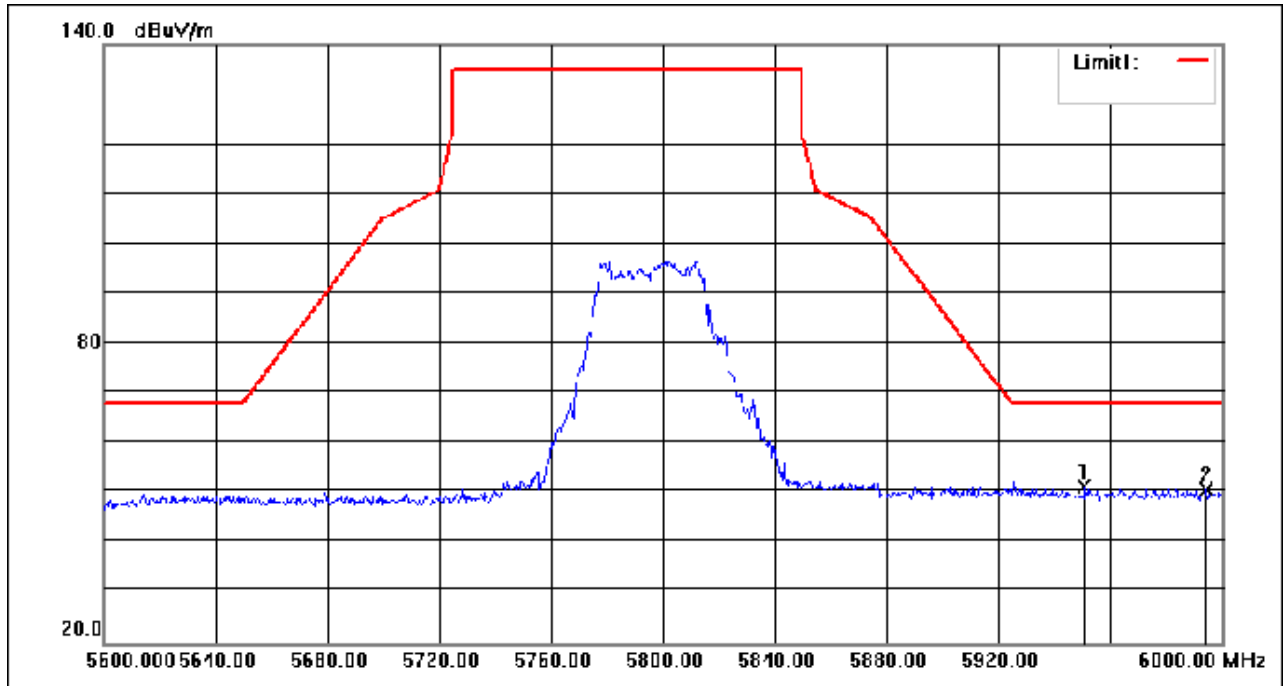
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Mode:g; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5950.800	47.09	4.12	51.21	68.20	-16.99	peak
2	5994.400	46.43	4.39	50.82	68.20	-17.38	peak



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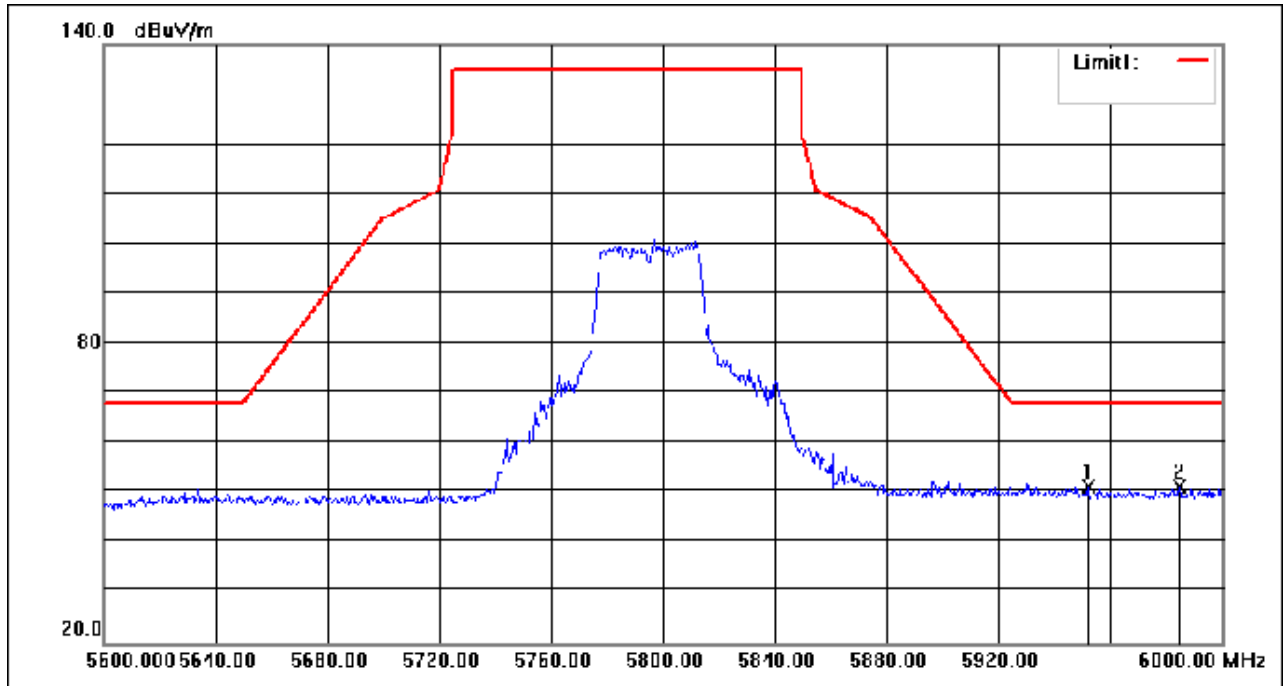
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5952.000	47.23	4.13	51.36	68.20	-16.84	peak
2	5984.800	47.05	4.33	51.38	68.20	-16.82	peak



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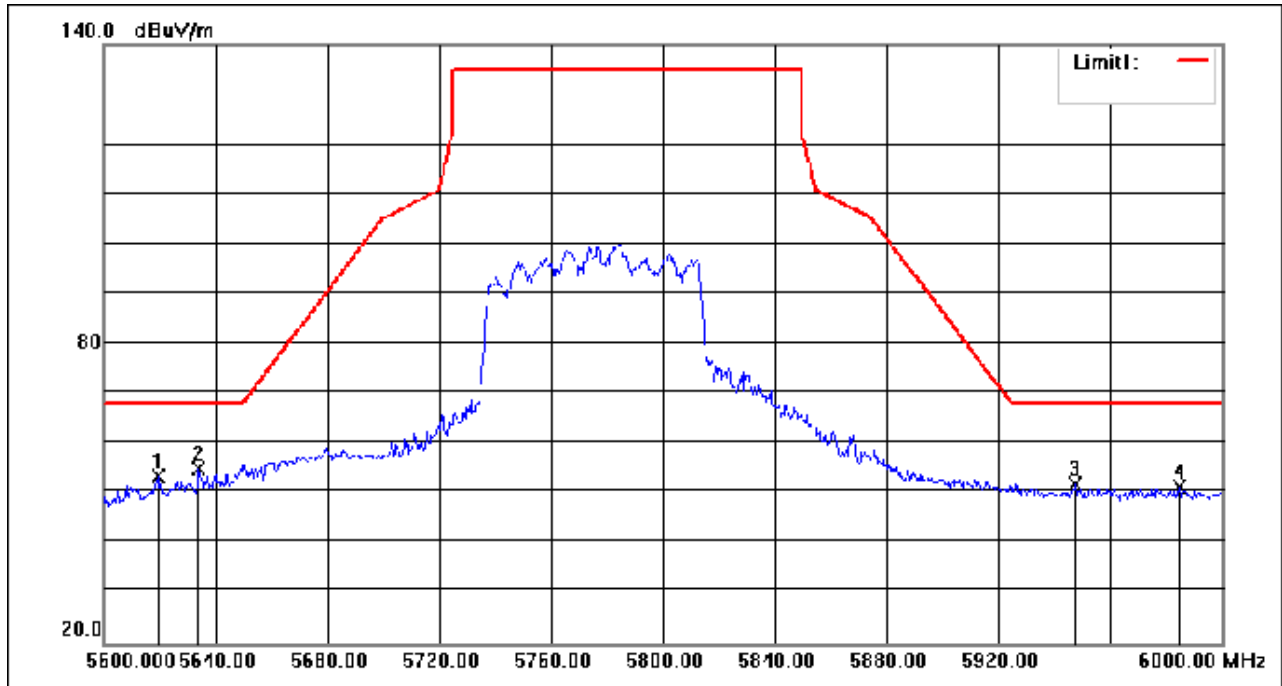
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Mode:g; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5619.600	51.54	2.03	53.57	68.20	-14.63	peak
2	5634.000	52.70	2.12	54.82	68.20	-13.38	peak
3	5947.600	47.92	4.10	52.02	68.20	-16.18	peak
4	5984.800	46.87	4.33	51.20	68.20	-17.00	peak



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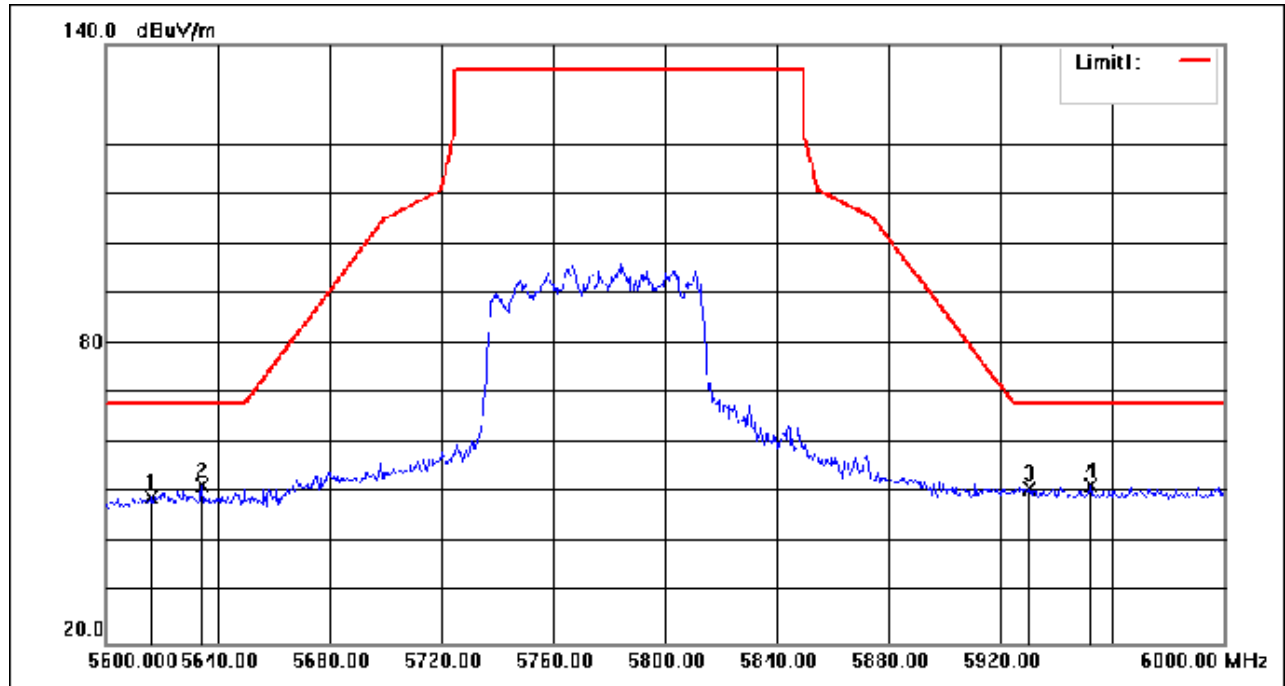
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5616.400	47.30	2.01	49.31	68.20	-18.89	peak
2	5634.400	49.62	2.12	51.74	68.20	-16.46	peak
3	5930.400	47.04	3.99	51.03	68.20	-17.17	peak
4	5952.400	47.38	4.13	51.51	68.20	-16.69	peak



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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.



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7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode: d: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.

e: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.

f: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.

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



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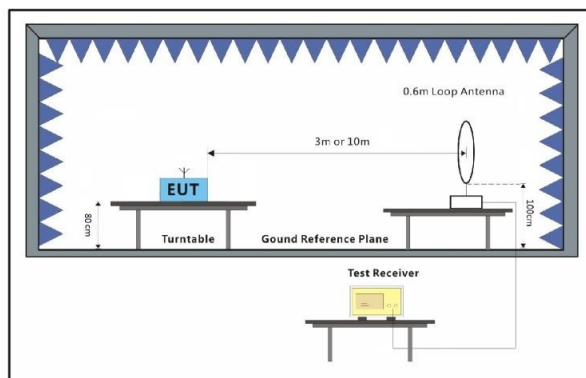
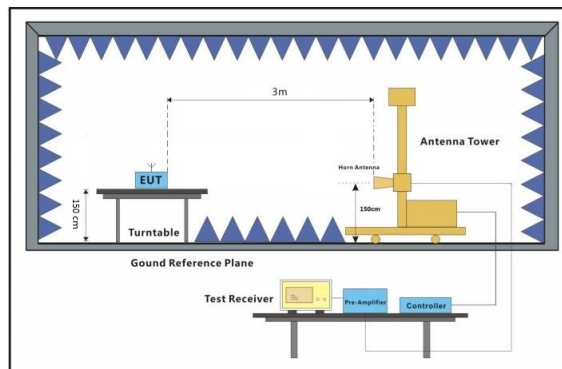
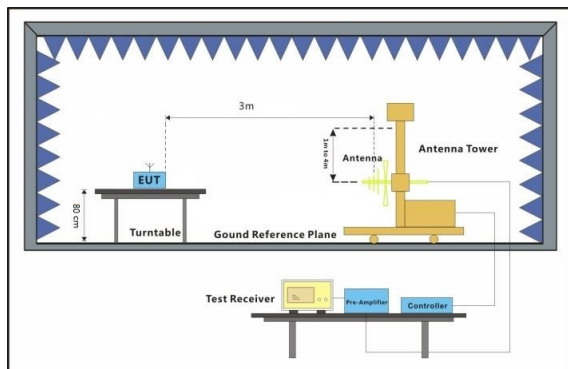
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7.8.2 Test Setup Diagram



7.8.3 Measurement Procedure and Data

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
5. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not report.



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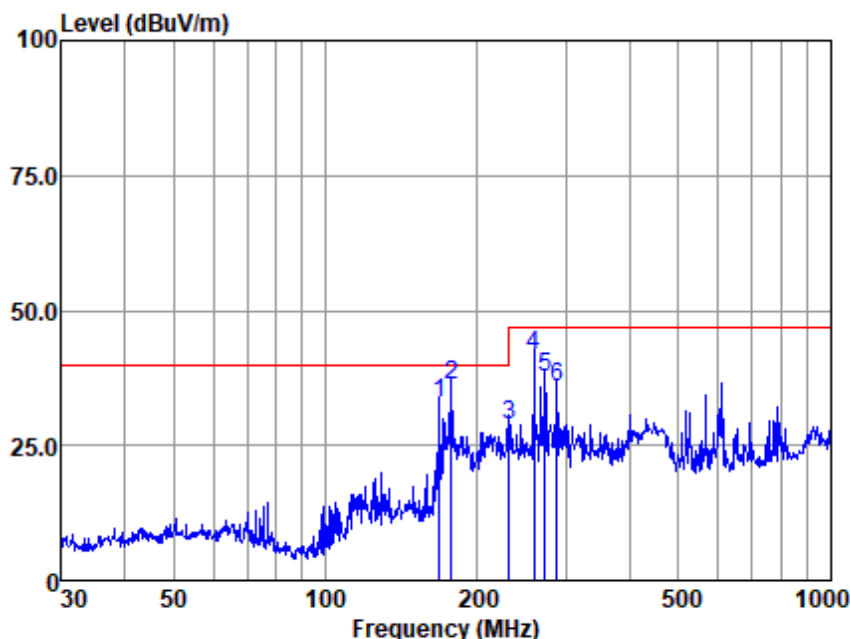
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Below 1GHz

Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL
EUT/Project :7379CR
Test mode :a

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	167.824	60.25	12.89	1.83	42.21	32.76	40.00	-7.24	QP
2	177.509	64.55	12.05	1.89	42.20	36.29	40.00	-3.71	QP
3	230.907	58.62	10.09	2.14	42.13	28.72	47.00	-18.28	QP
4	259.234	69.58	12.07	2.25	42.10	41.80	47.00	-5.20	QP
5	272.278	64.91	12.59	2.29	42.11	37.68	47.00	-9.32	QP
6	286.982	62.62	12.99	2.35	42.12	35.84	47.00	-11.16	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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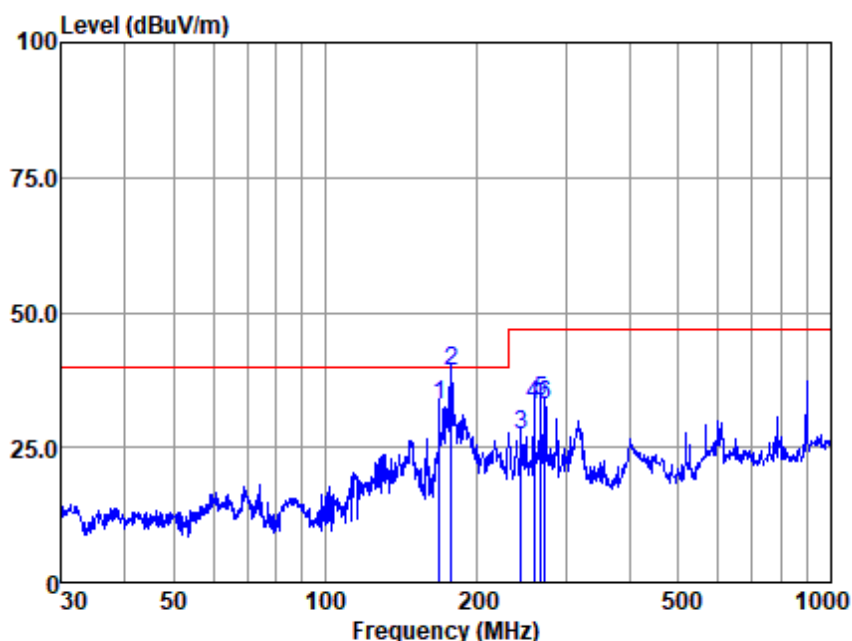
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Mode:a; Polarization:Vertical



Antenna Polarity :VERTICAL
EUT/Project :7379CR
Test mode :a

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	167.824	60.35	12.89	1.83	42.21	32.86	40.00	-7.14	QP
2	177.207	67.50	12.05	1.89	42.20	39.24	40.00	-0.76	QP
3	244.232	56.18	11.21	2.20	42.11	27.48	47.00	-19.52	QP
4	259.234	60.64	12.07	2.25	42.10	32.86	47.00	-14.14	QP
5	266.609	61.21	12.37	2.28	42.11	33.75	47.00	-13.25	QP
6	272.278	60.24	12.59	2.29	42.11	33.01	47.00	-13.99	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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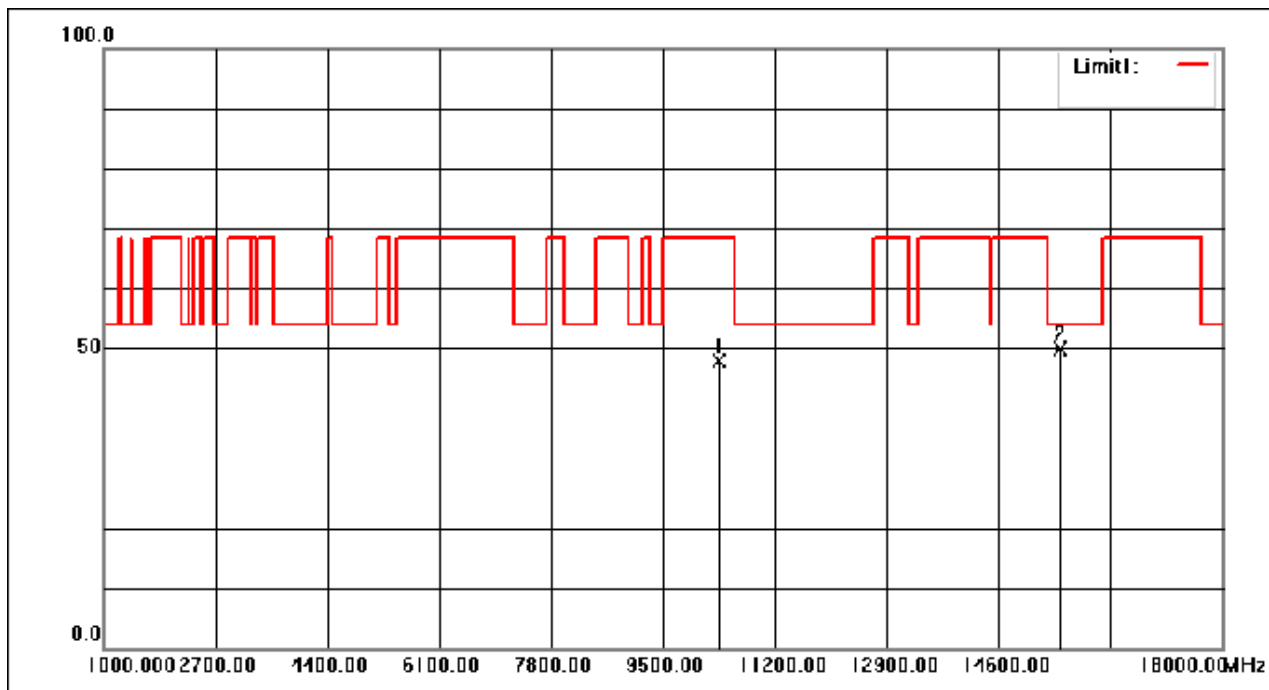


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Report No.: SHEM200900737903
Page: 103 of 224

Above 1GHz

Mode:d; Polarization:Horizontal; 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	50.20	-0.30	49.90	54.00	-4.10	peak



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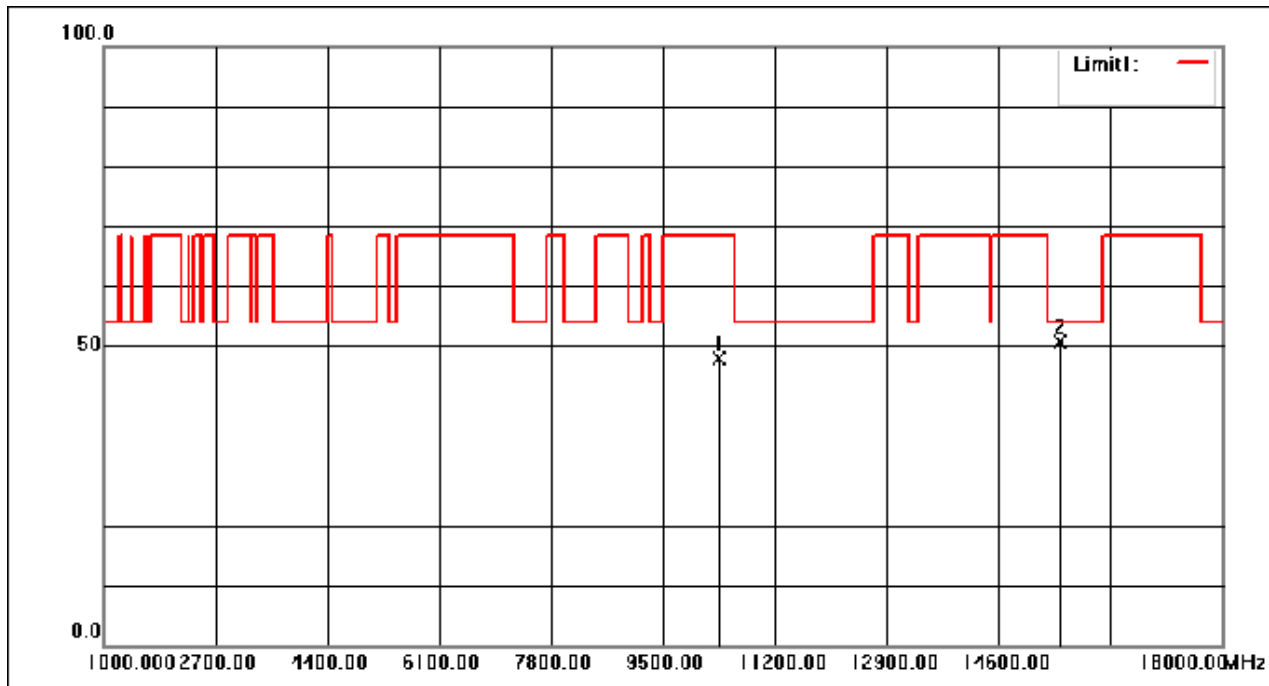
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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	50.40	-2.59	47.81	68.30	-20.49	peak
2	15540.000	50.91	-0.30	50.61	54.00	-3.39	peak



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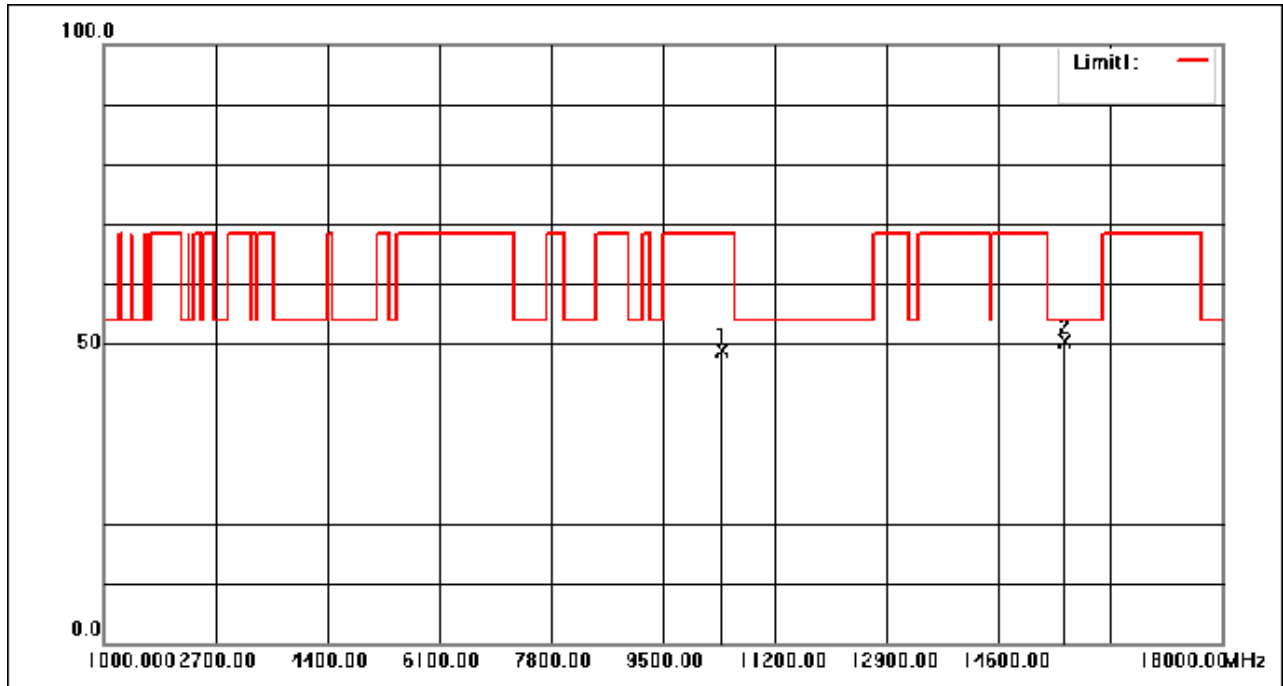
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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10400.000	51.50	-2.53	48.97	68.30	-19.33	peak
2	15600.000	50.77	-0.35	50.42	54.00	-3.58	peak



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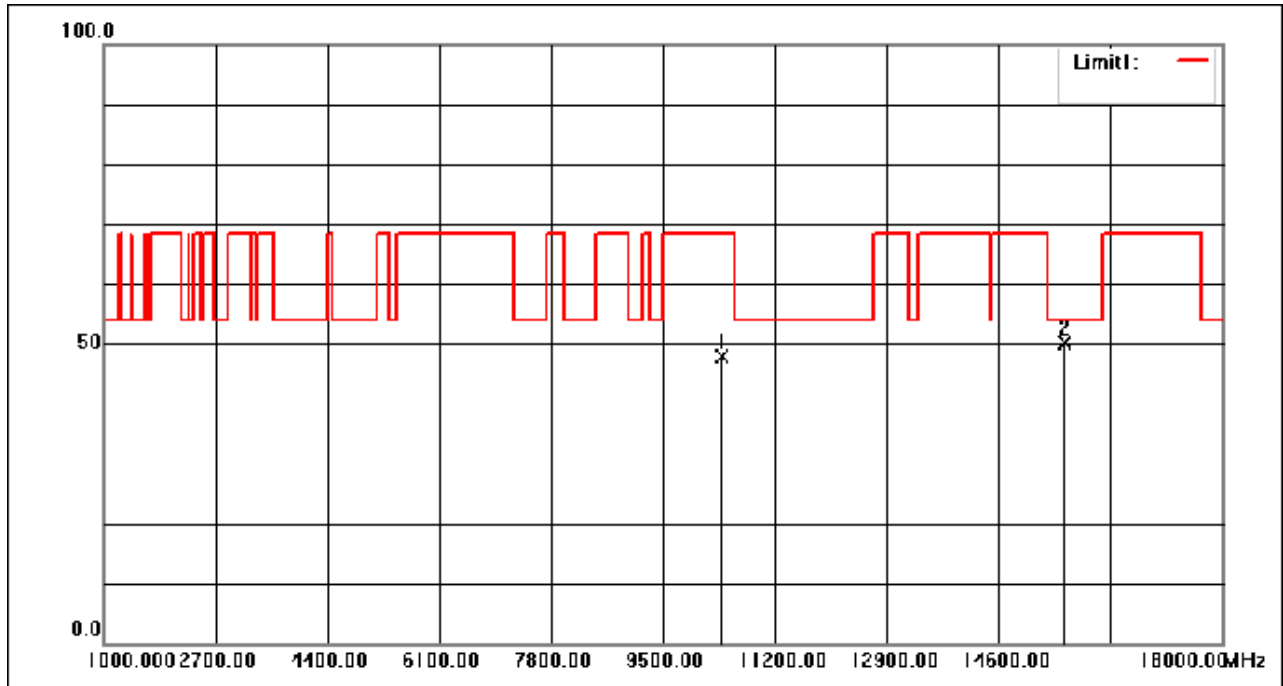
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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10400.000	50.47	-2.53	47.94	68.30	-20.36	peak
2	15600.000	50.54	-0.35	50.19	54.00	-3.81	peak



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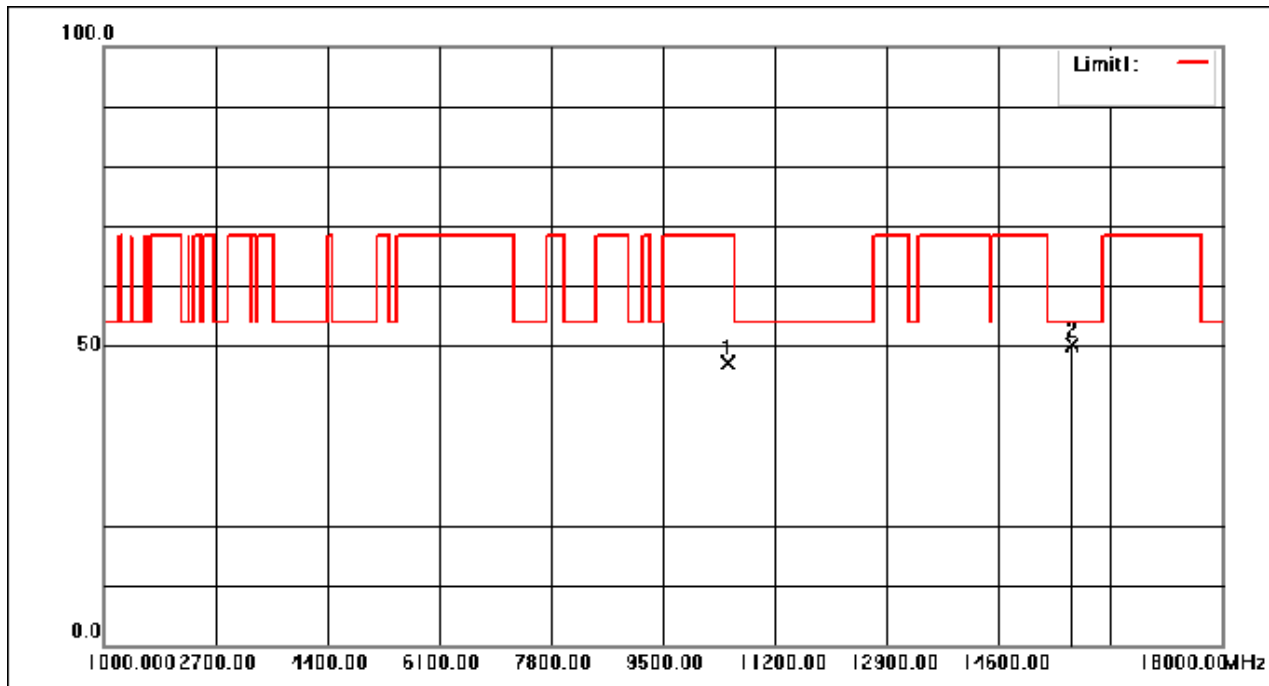
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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	49.49	-2.41	47.08	68.30	-21.22	peak
2	15720.000	50.58	-0.44	50.14	54.00	-3.86	peak



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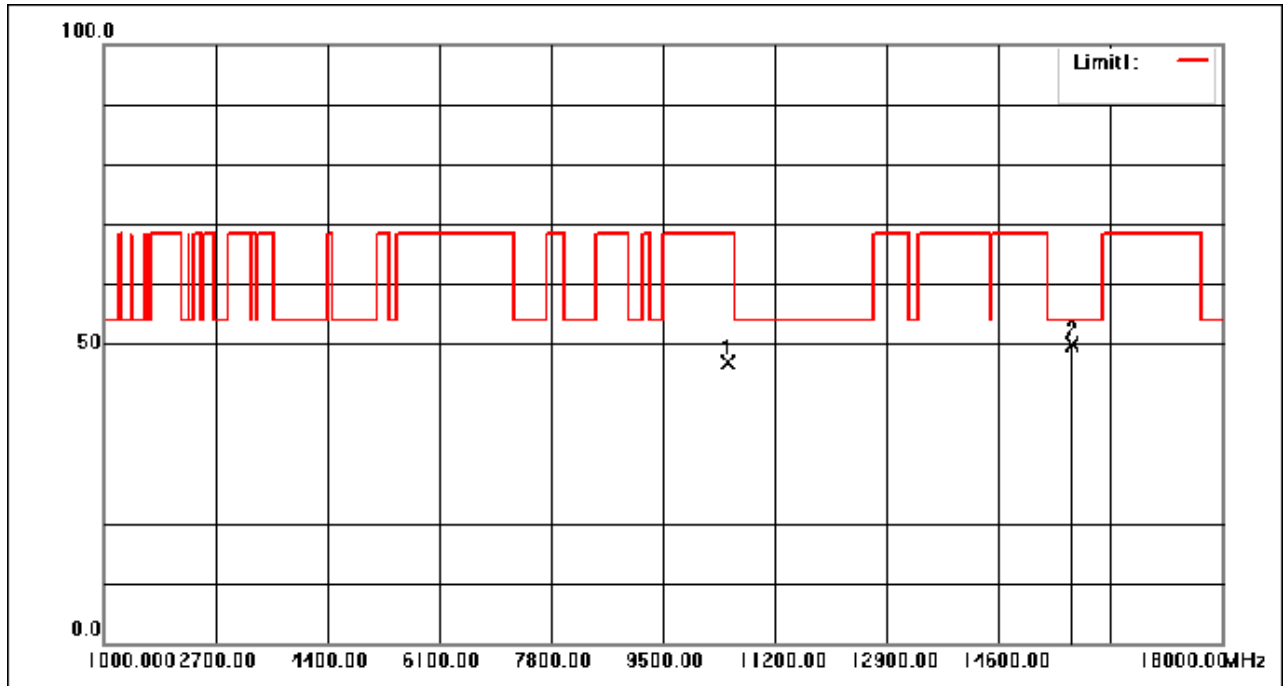
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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	49.25	-2.41	46.84	68.30	-21.46	peak
2	15720.000	50.30	-0.44	49.86	54.00	-4.14	peak



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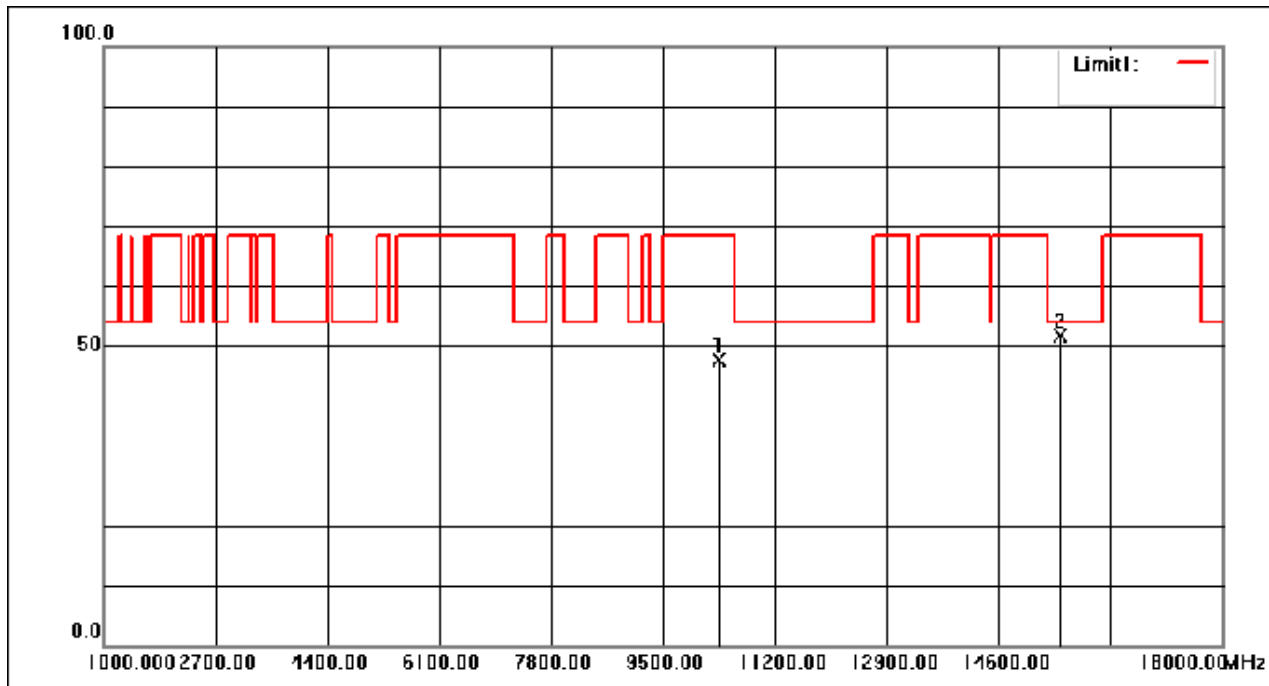
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	10360.000	50.12	-2.59	47.53	68.30	-20.77	peak
2	15540.000	51.91	-0.30	51.61	54.00	-2.39	peak



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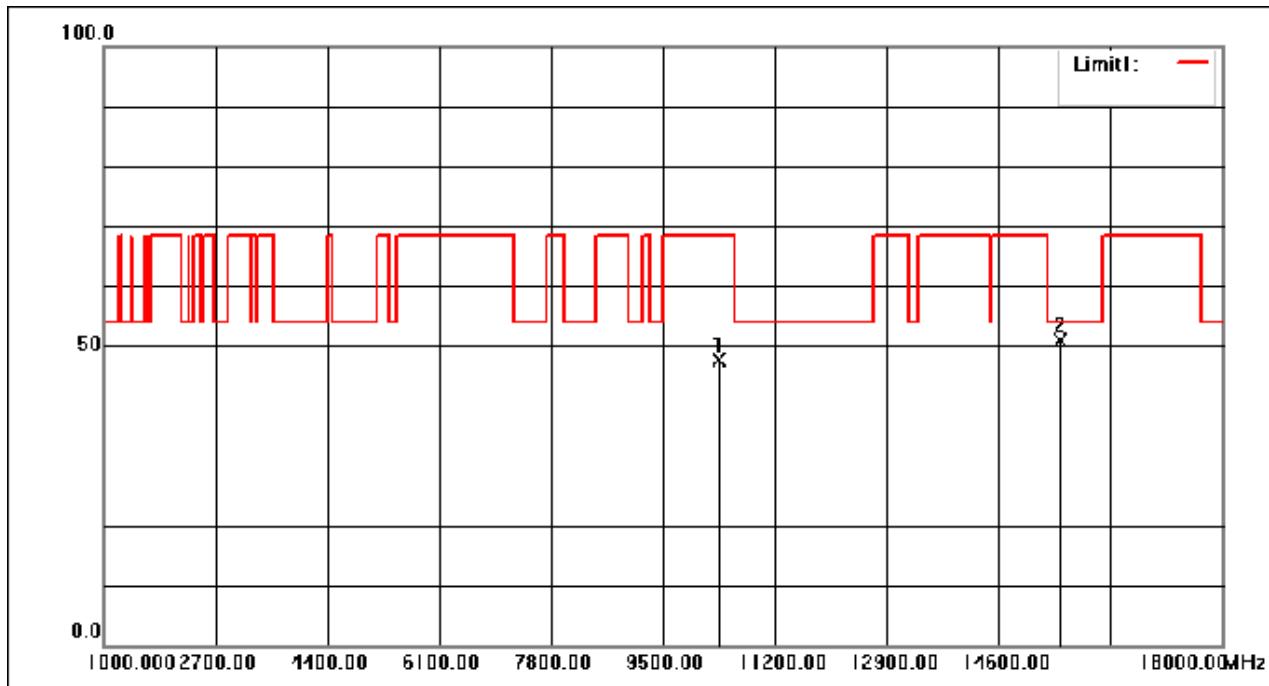
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	50.12	-2.59	47.53	68.30	-20.77	peak
2	15540.000	51.13	-0.30	50.83	54.00	-3.17	peak



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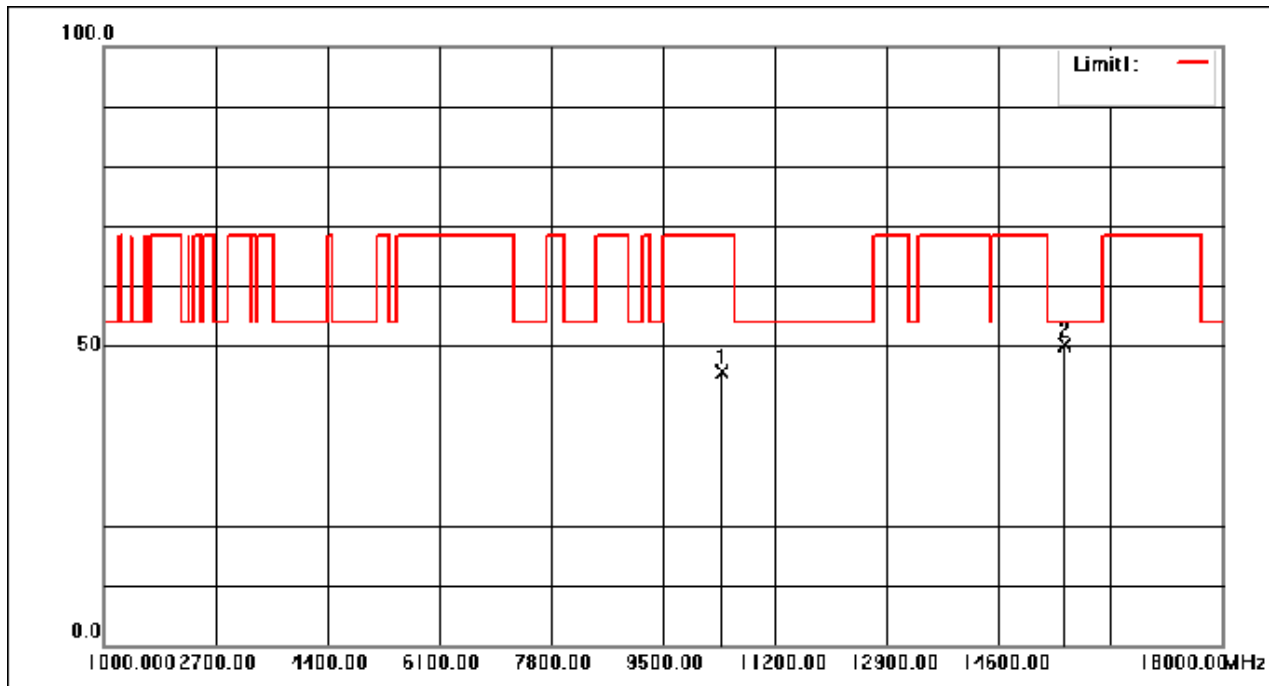
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10400.000	48.20	-2.53	45.67	68.30	-22.63	peak
2	15600.000	50.41	-0.35	50.06	54.00	-3.94	peak



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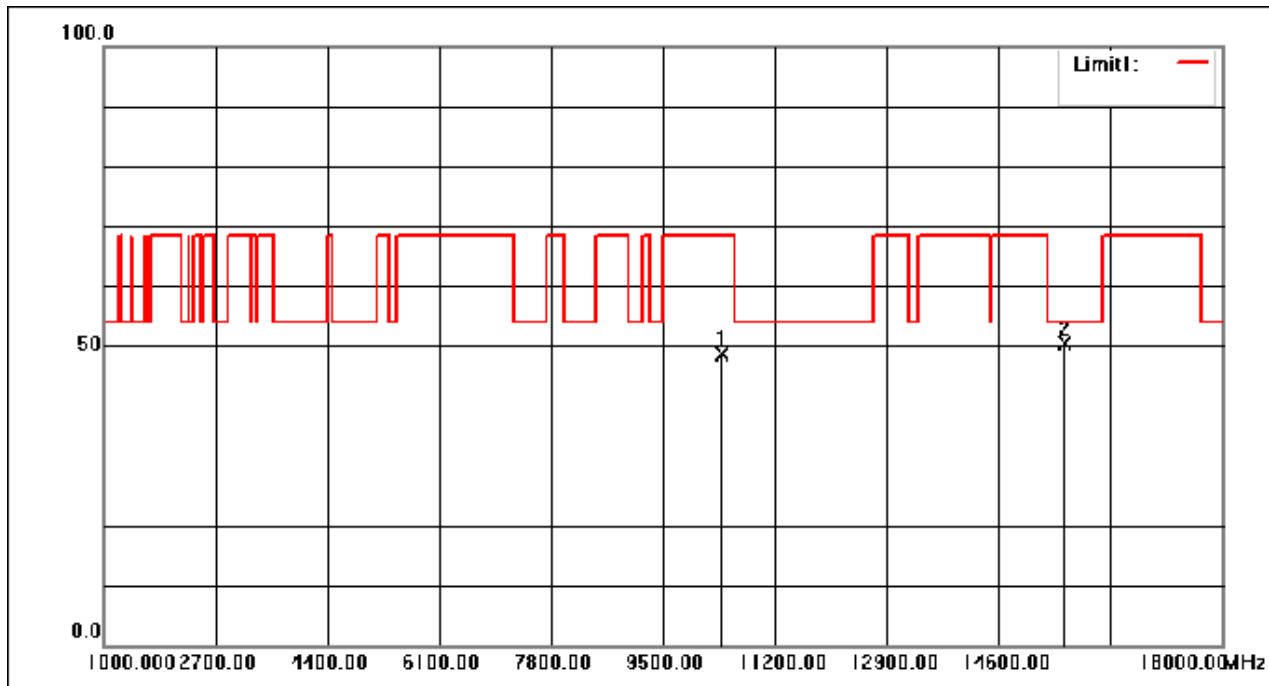
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10400.000	51.06	-2.53	48.53	68.30	-19.77	peak
2	15600.000	50.69	-0.35	50.34	54.00	-3.66	peak



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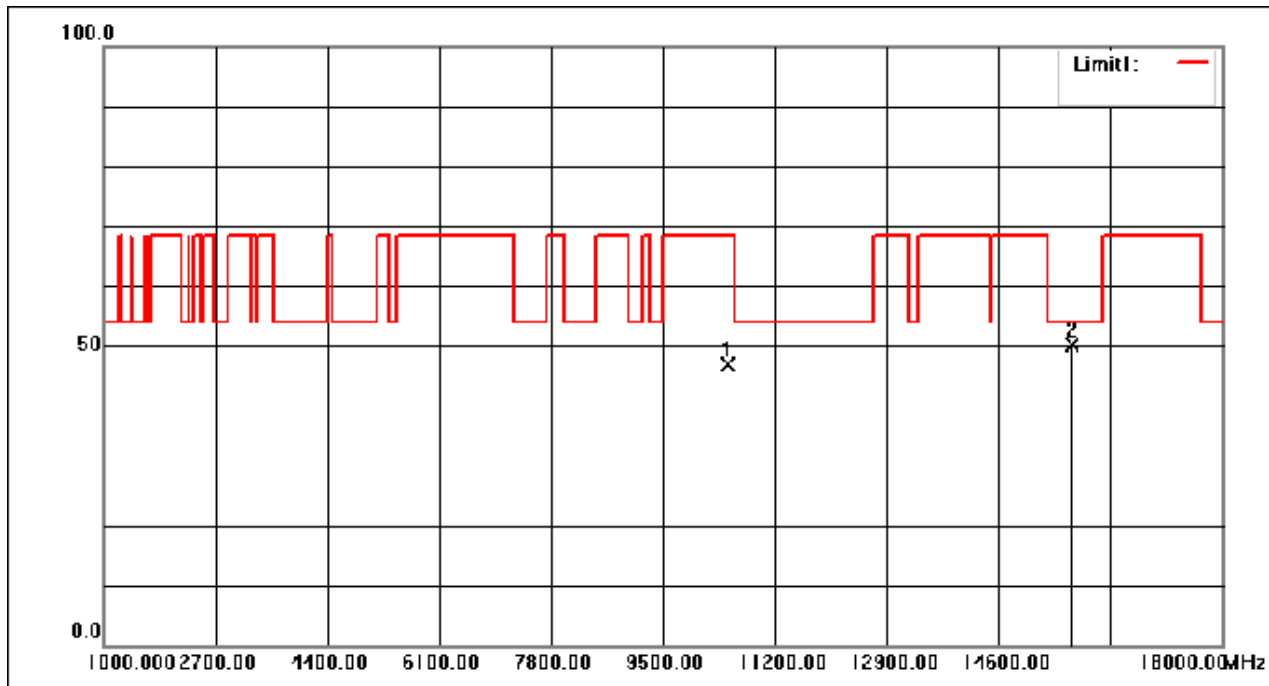
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	49.28	-2.41	46.87	68.30	-21.43	peak
2	15720.000	50.58	-0.44	50.14	54.00	-3.86	peak



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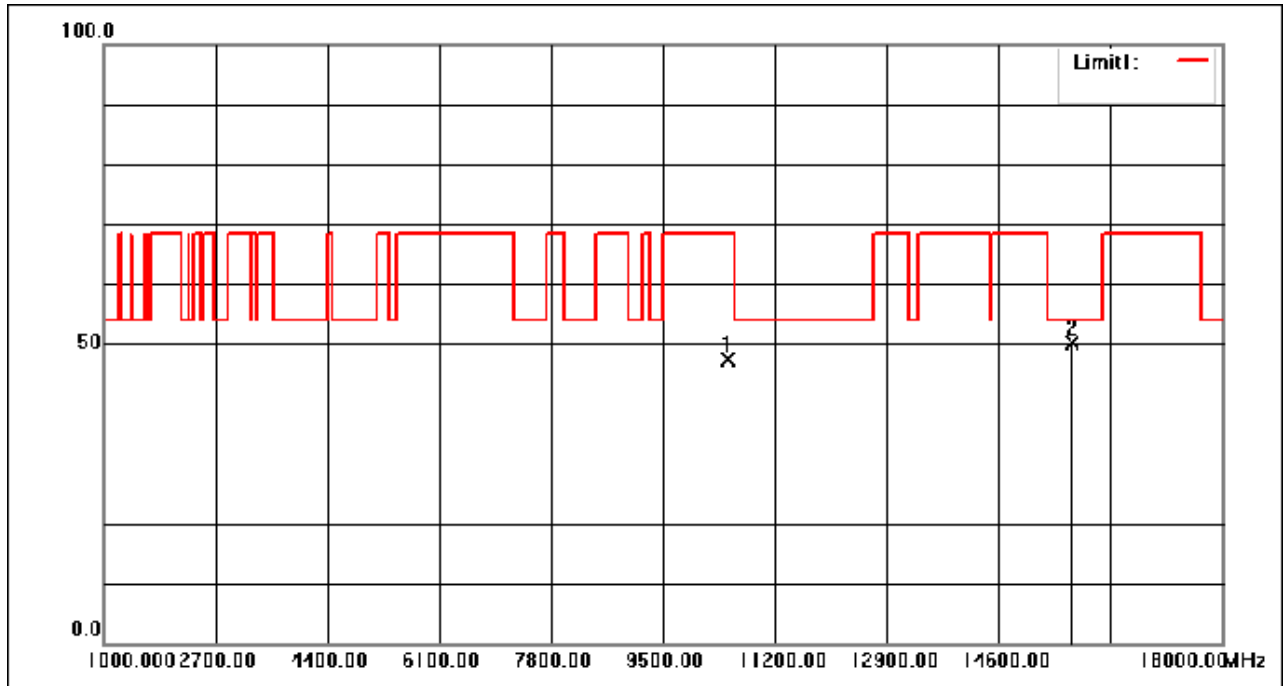


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Report No.: SHEM200900737903

Page: 114 of 224

Mode:d; Polarization:Vertical; Modulation:n; 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	50.67	-0.44	50.23	54.00	-3.77	peak



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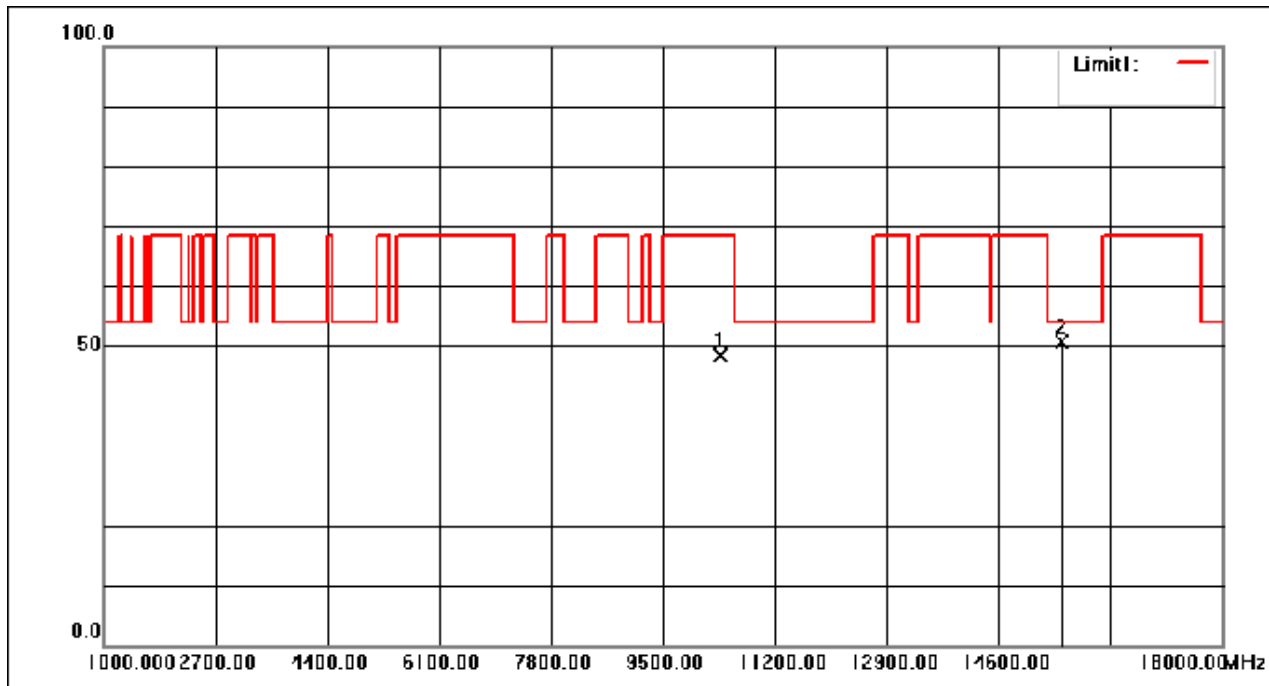
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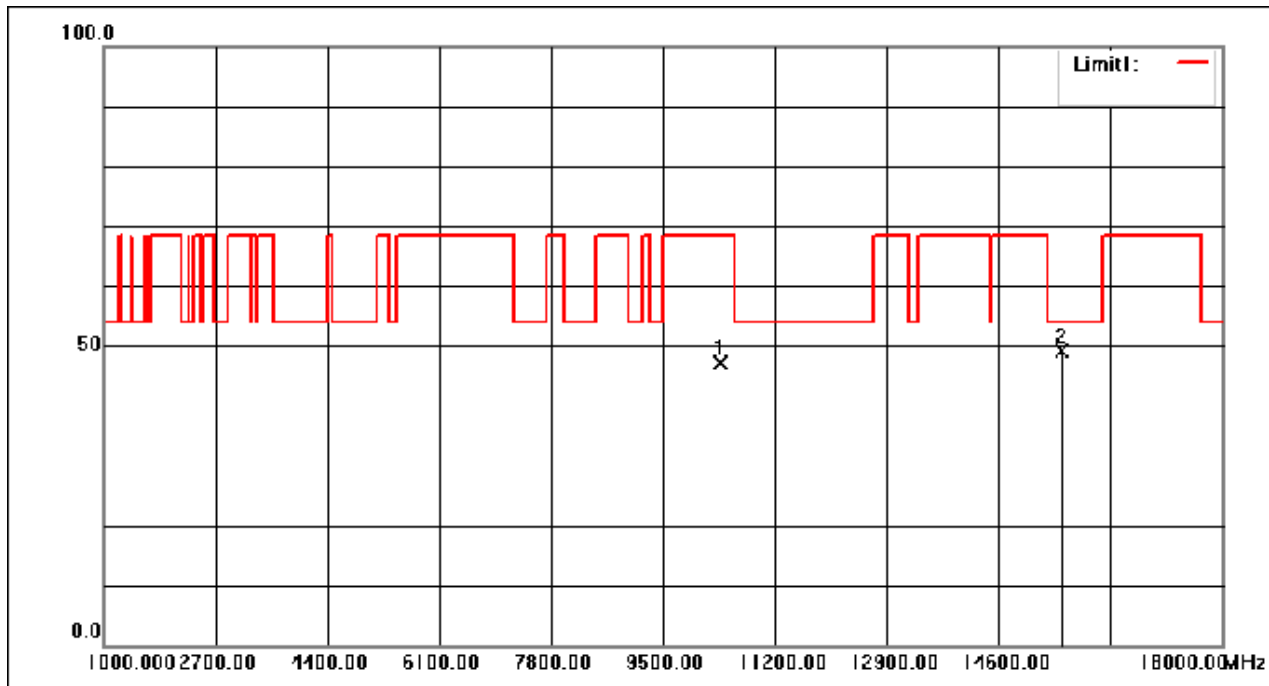
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10380.000	50.98	-2.56	48.42	68.30	-19.88	peak
2	15570.000	51.05	-0.32	50.73	54.00	-3.27	peak

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10380.000	49.81	-2.56	47.25	68.30	-21.05	peak
2	15570.000	49.46	-0.32	49.14	54.00	-4.86	peak



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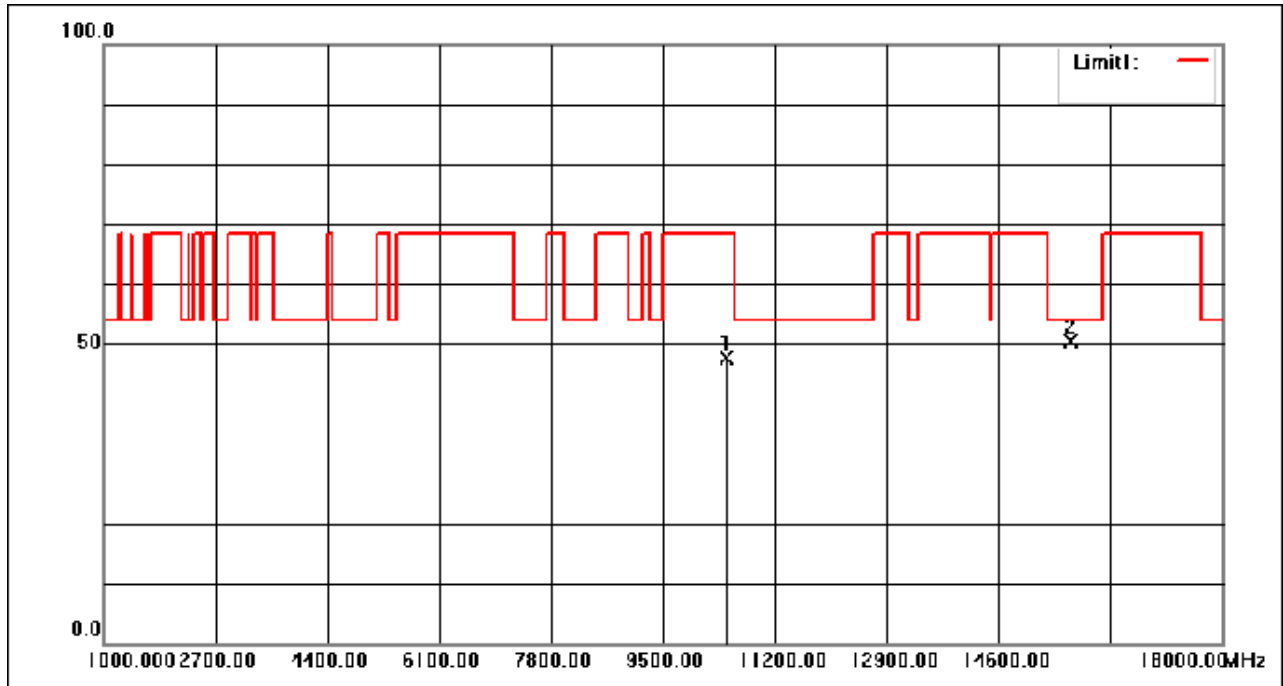
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10460.000	49.99	-2.44	47.55	68.30	-20.75	peak
2	15690.000	50.91	-0.42	50.49	54.00	-3.51	peak



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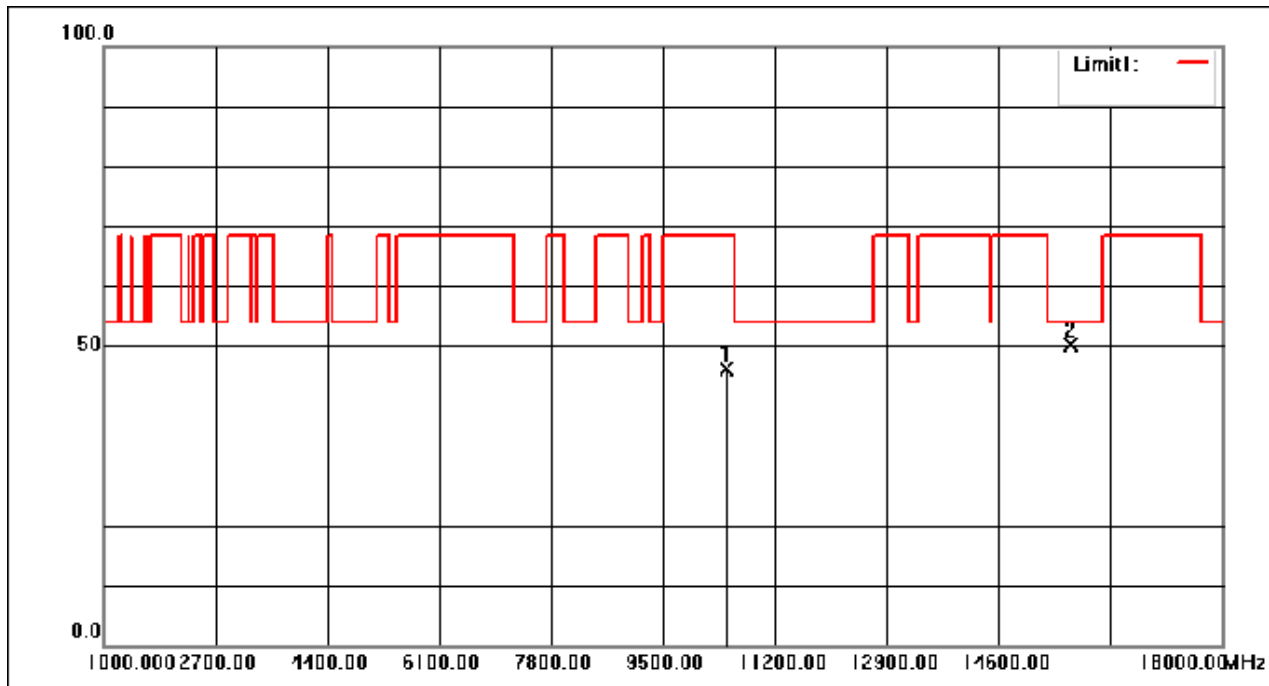
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10460.000	48.45	-2.44	46.01	68.30	-22.29	peak
2	15690.000	50.66	-0.42	50.24	54.00	-3.76	peak



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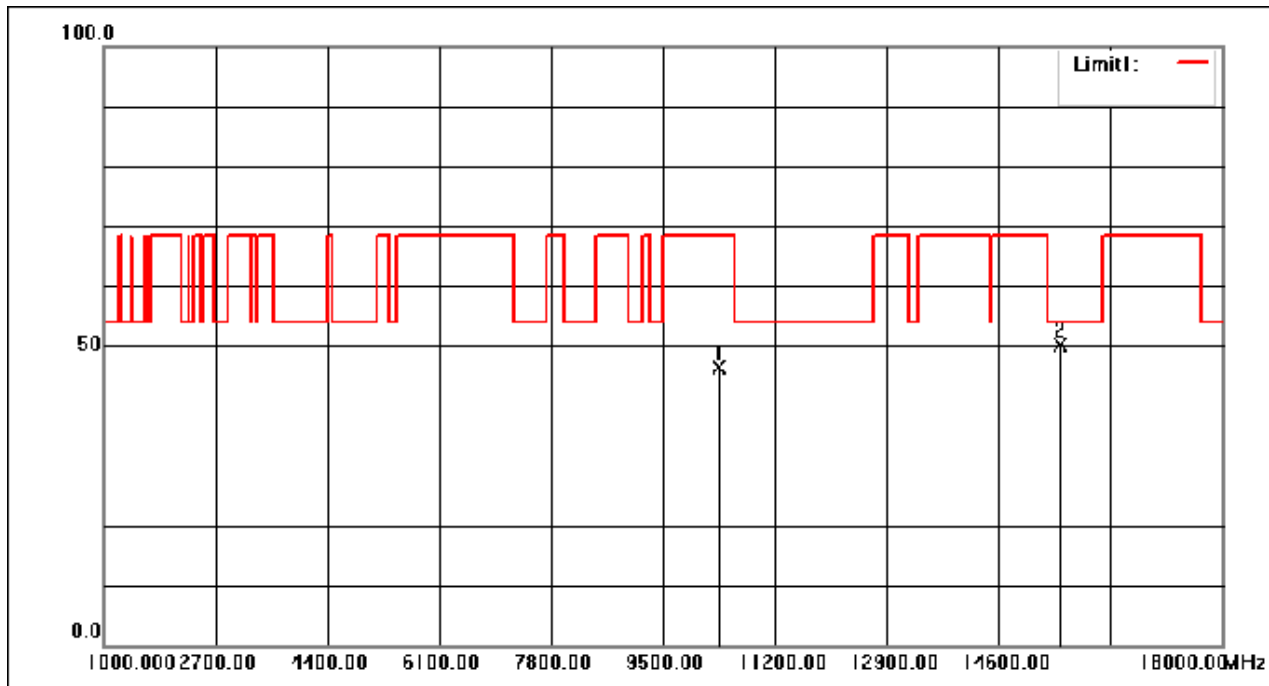
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	48.96	-2.59	46.37	68.30	-21.93	peak
2	15540.000	50.44	-0.30	50.14	54.00	-3.86	peak



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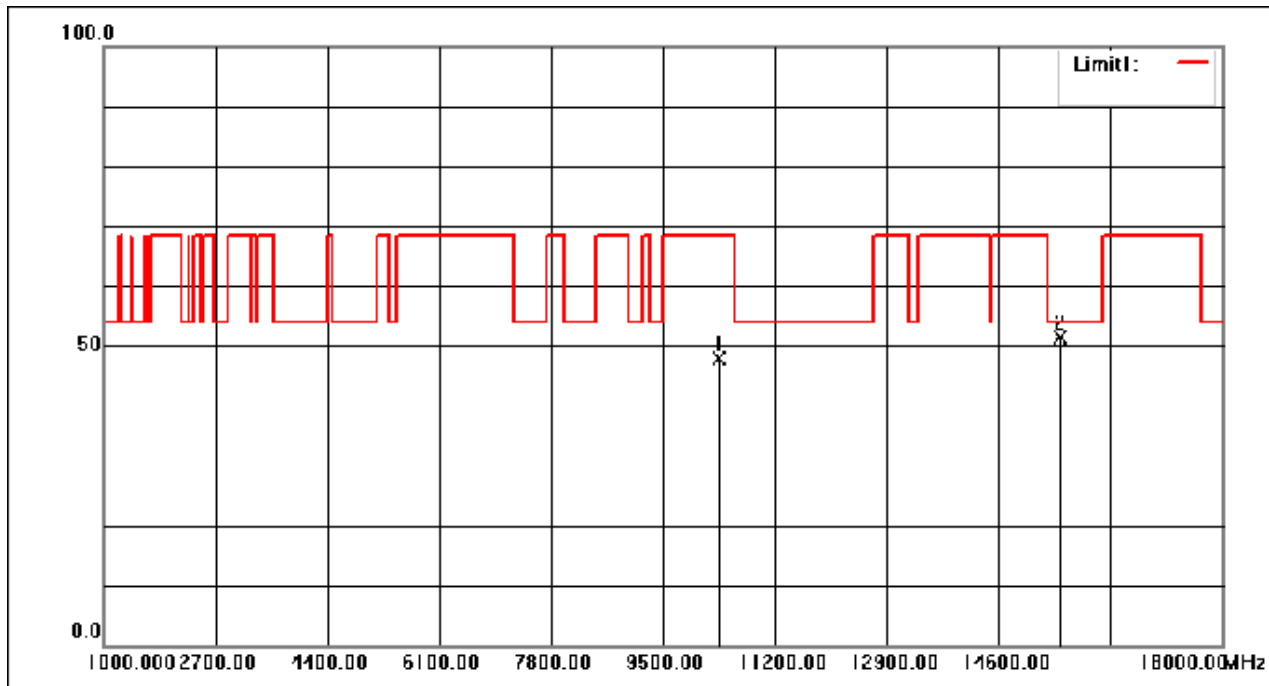
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	50.41	-2.59	47.82	68.30	-20.48	peak
2	15540.000	51.64	-0.30	51.34	54.00	-2.66	peak



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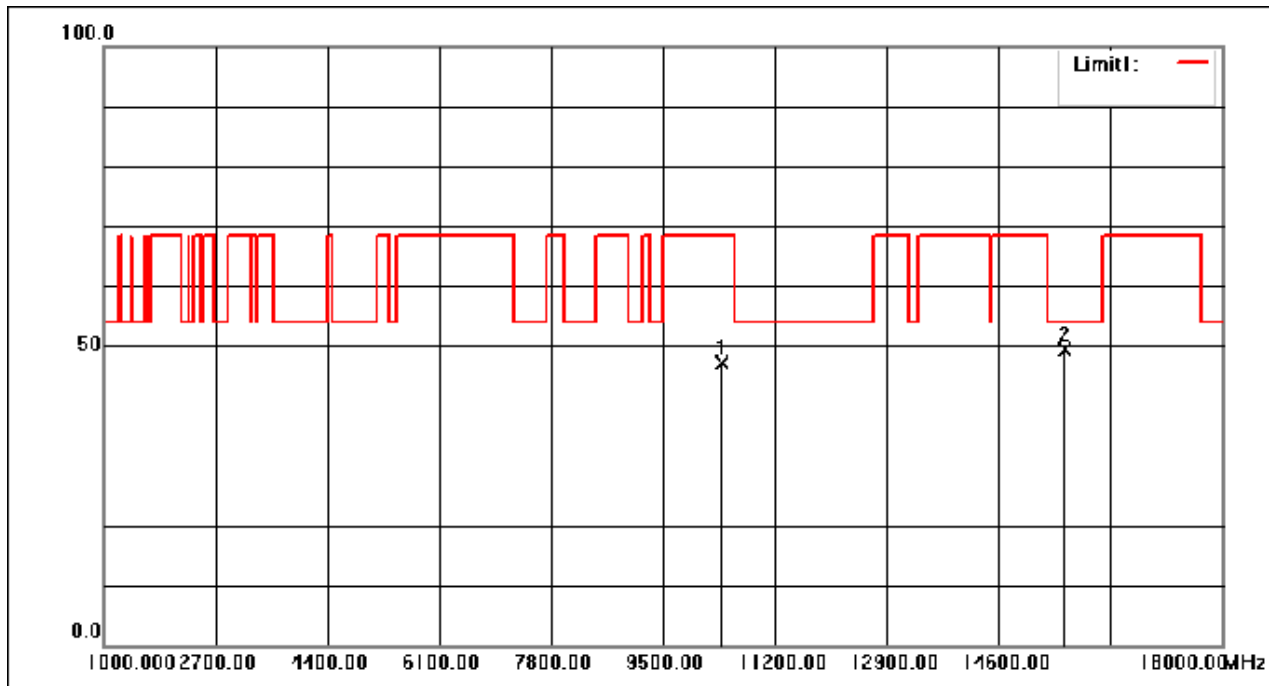
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10400.000	49.73	-2.53	47.20	68.30	-21.10	peak
2	15600.000	49.69	-0.35	49.34	54.00	-4.66	peak



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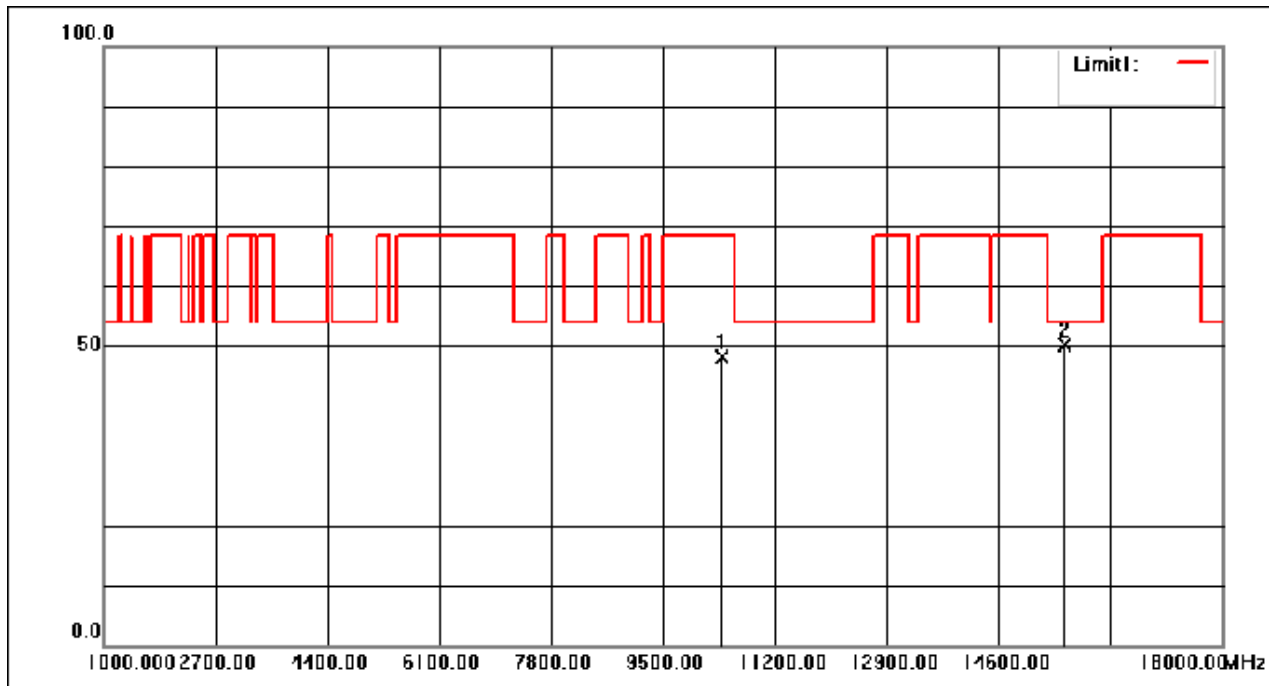
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No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	10400.000	50.56	-2.53	48.03	68.30	-20.27	peak
2	15600.000	50.59	-0.35	50.24	54.00	-3.76	peak



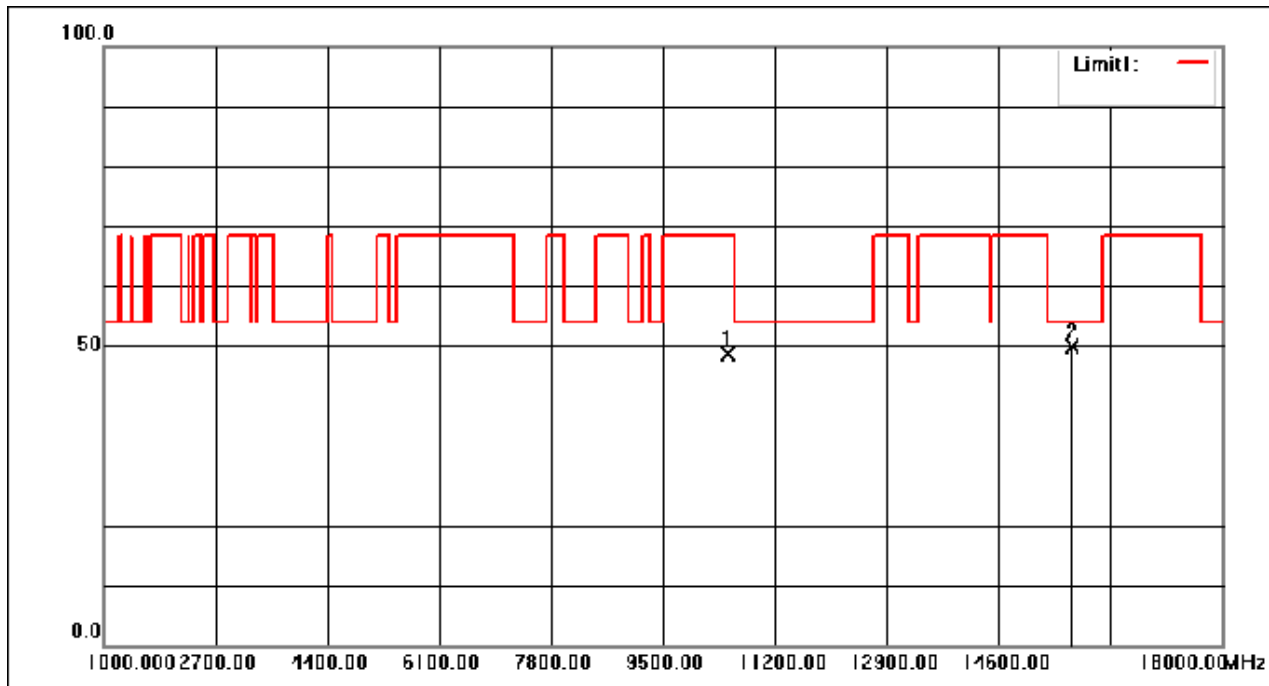
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No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	10480.000	51.05	-2.41	48.64	68.30	-19.66	peak
2	15720.000	50.22	-0.44	49.78	54.00	-4.22	peak



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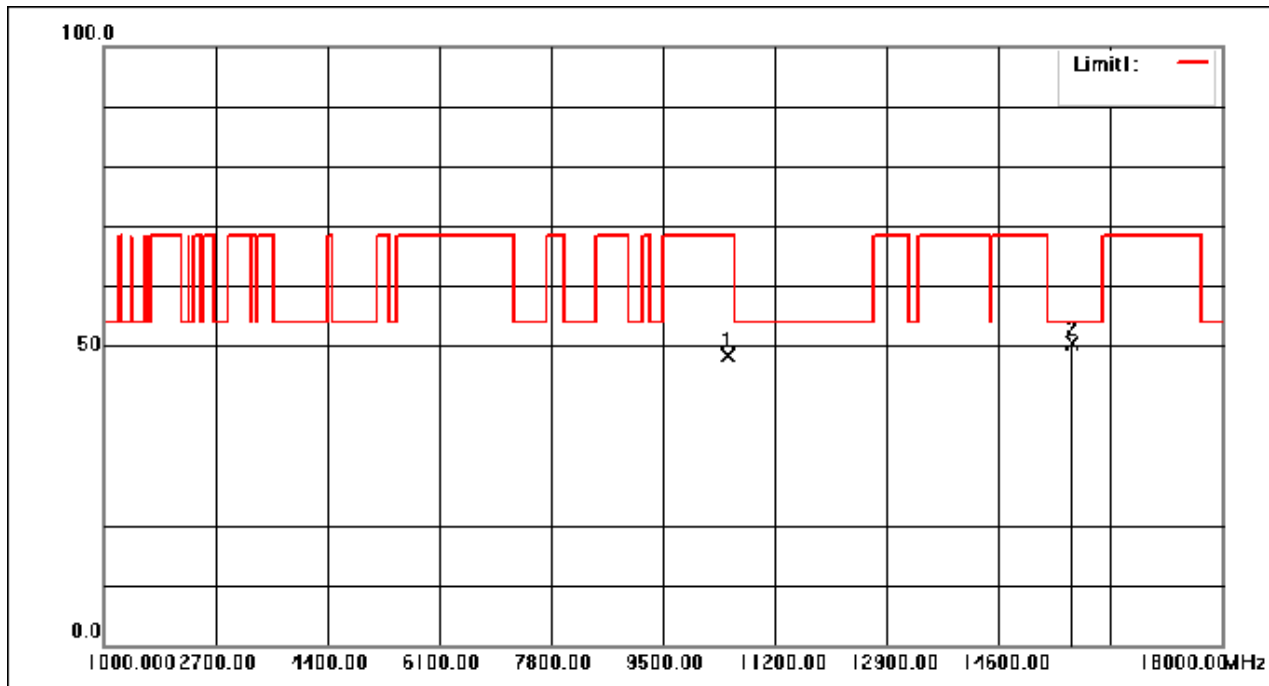
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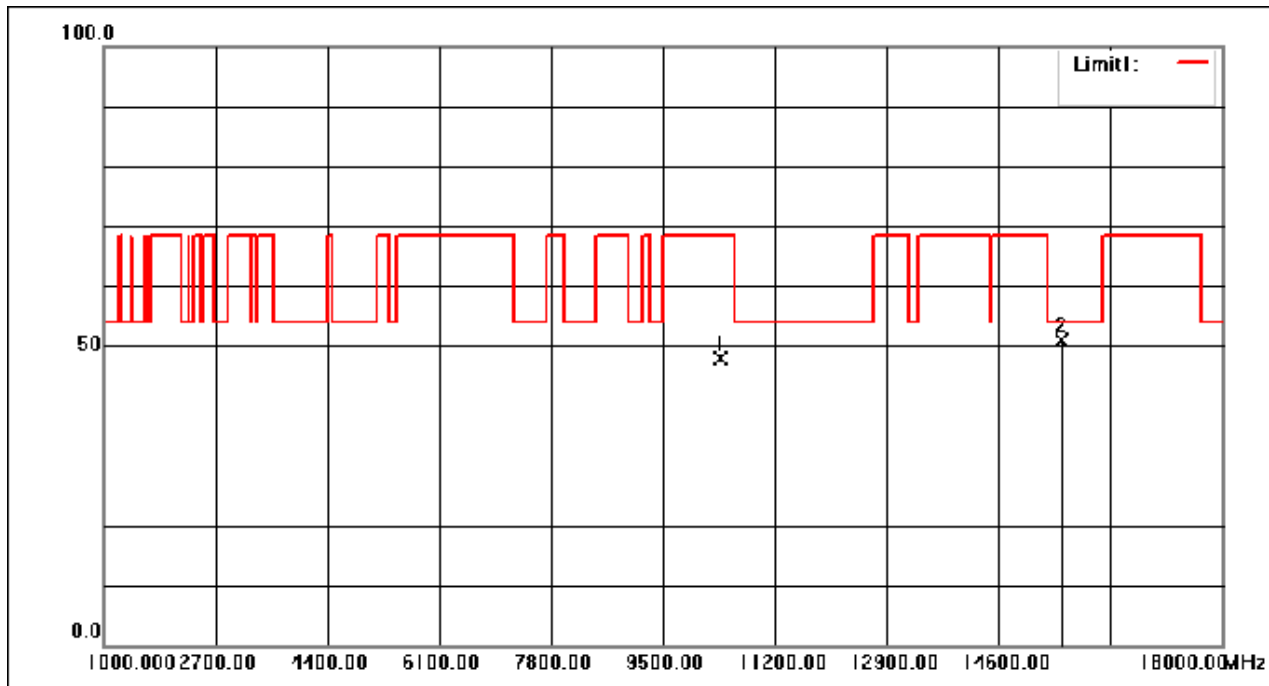


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	50.73	-2.41	48.32	68.30	-19.98	peak
2	15720.000	50.71	-0.44	50.27	54.00	-3.73	peak





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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10380.000	50.37	-2.56	47.81	68.30	-20.49	peak
2	15570.000	51.23	-0.32	50.91	54.00	-3.09	peak



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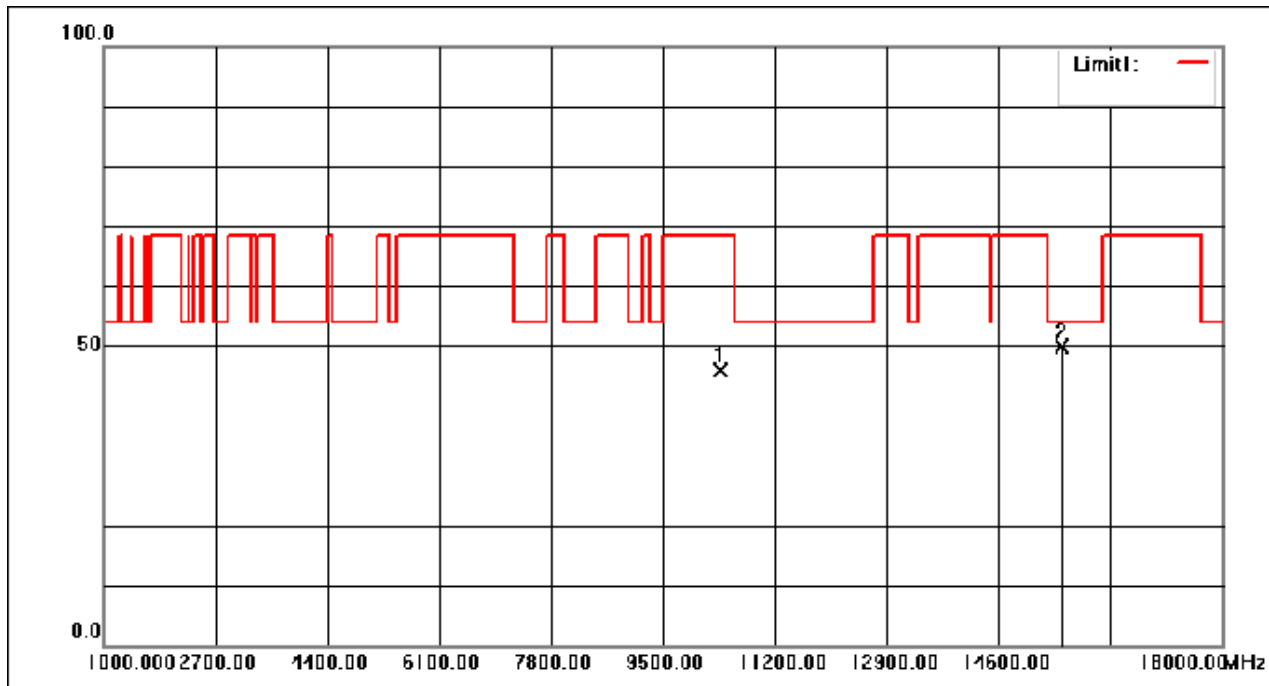
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10380.000	48.53	-2.56	45.97	68.30	-22.33	peak
2	15570.000	50.20	-0.32	49.88	54.00	-4.12	peak



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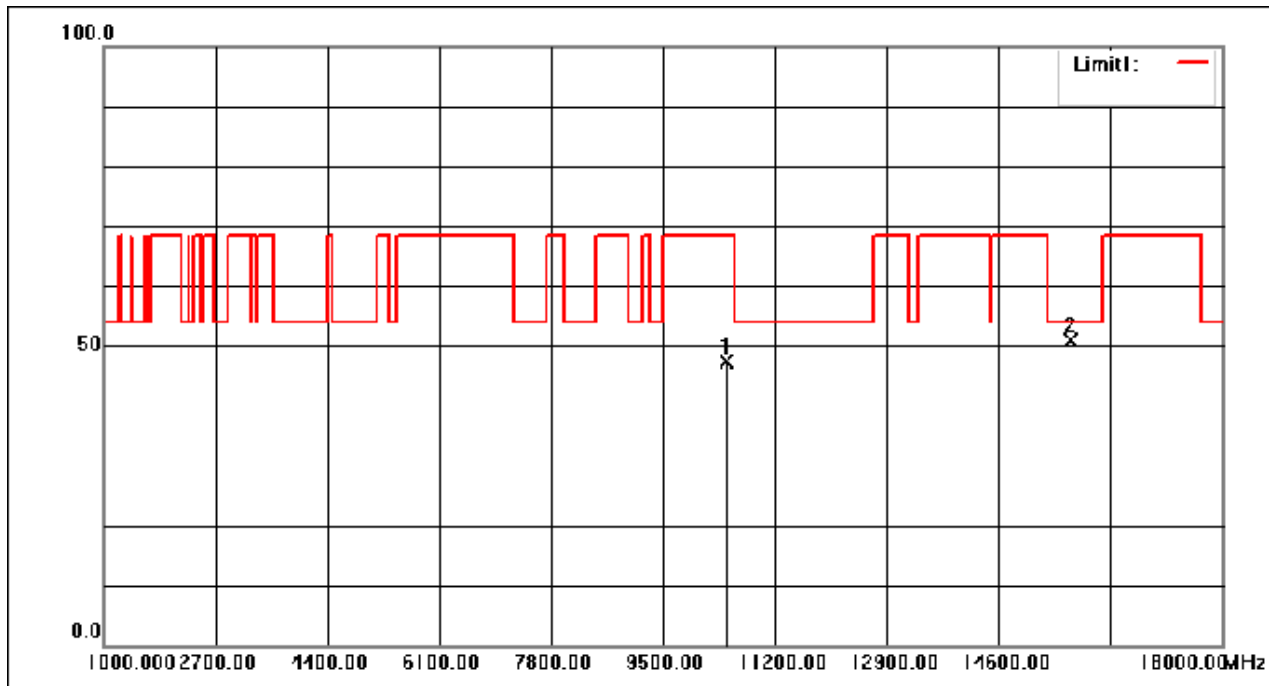
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	10460.000	49.70	-2.44	47.26	68.30	-21.04	peak
2	15690.000	51.36	-0.42	50.94	54.00	-3.06	peak



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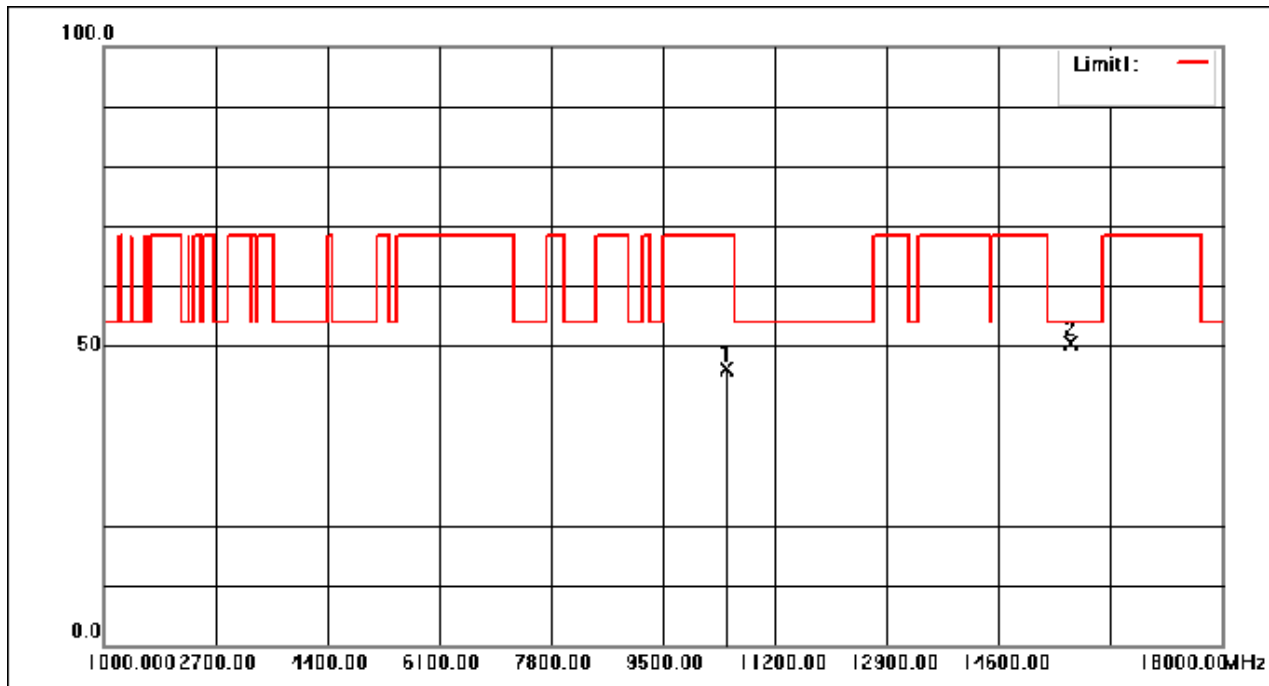
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10460.000	48.45	-2.44	46.01	68.30	-22.29	peak
2	15690.000	50.69	-0.42	50.27	54.00	-3.73	peak



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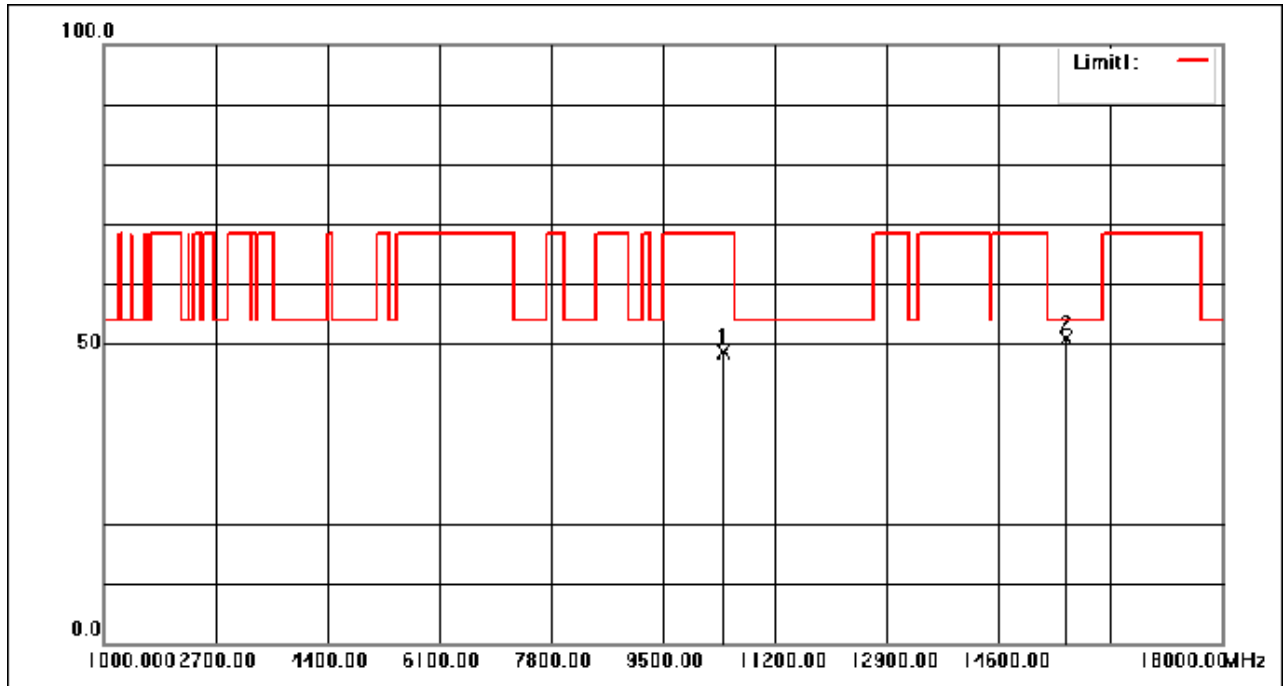


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Report No.: SHEM200900737903

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10420.000	51.04	-2.50	48.54	68.30	-19.76	peak
2	15630.000	51.28	-0.37	50.91	54.00	-3.09	peak



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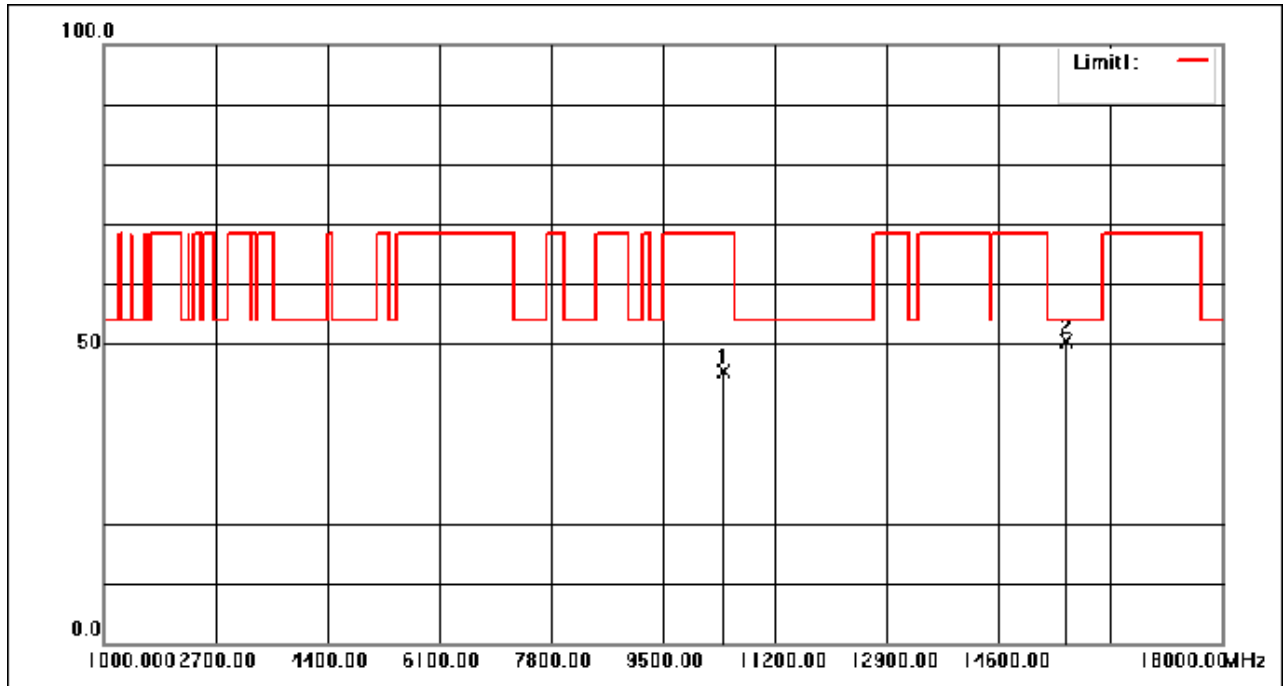
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10420.000	47.83	-2.50	45.33	68.30	-22.97	peak
2	15630.000	50.71	-0.37	50.34	54.00	-3.66	peak



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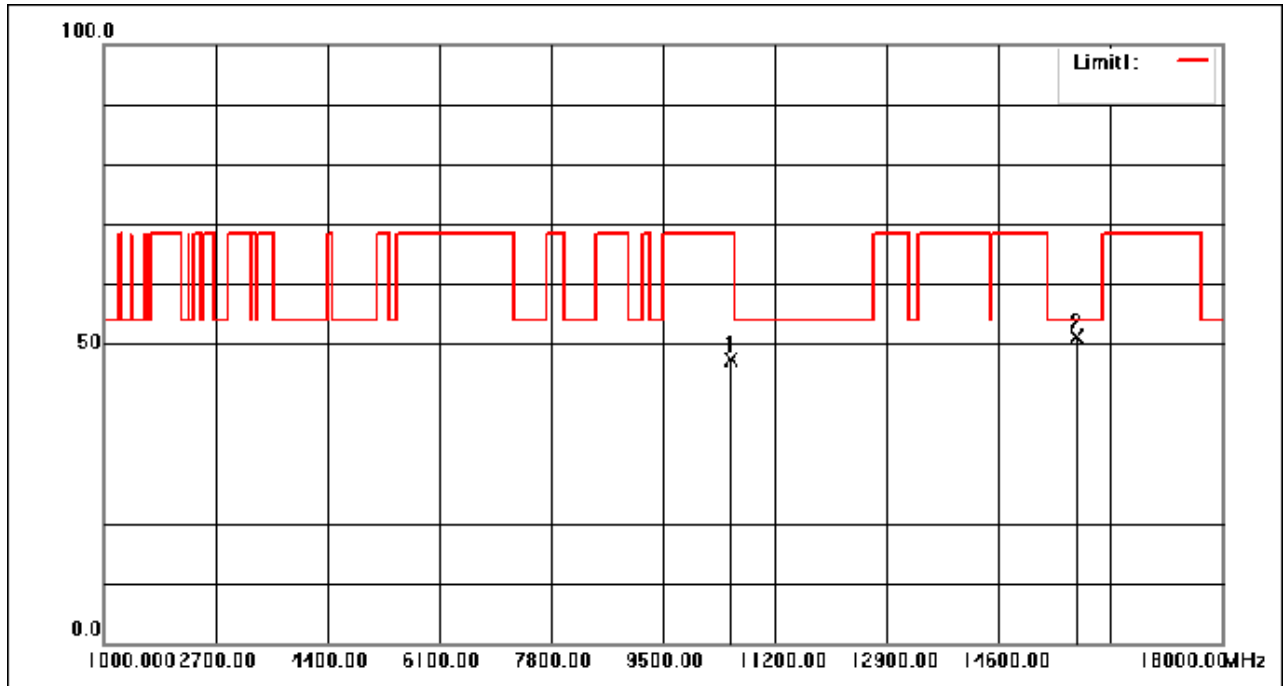
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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	49.74	-2.33	47.41	68.30	-20.89	peak
2	15780.000	51.57	-0.49	51.08	54.00	-2.92	peak



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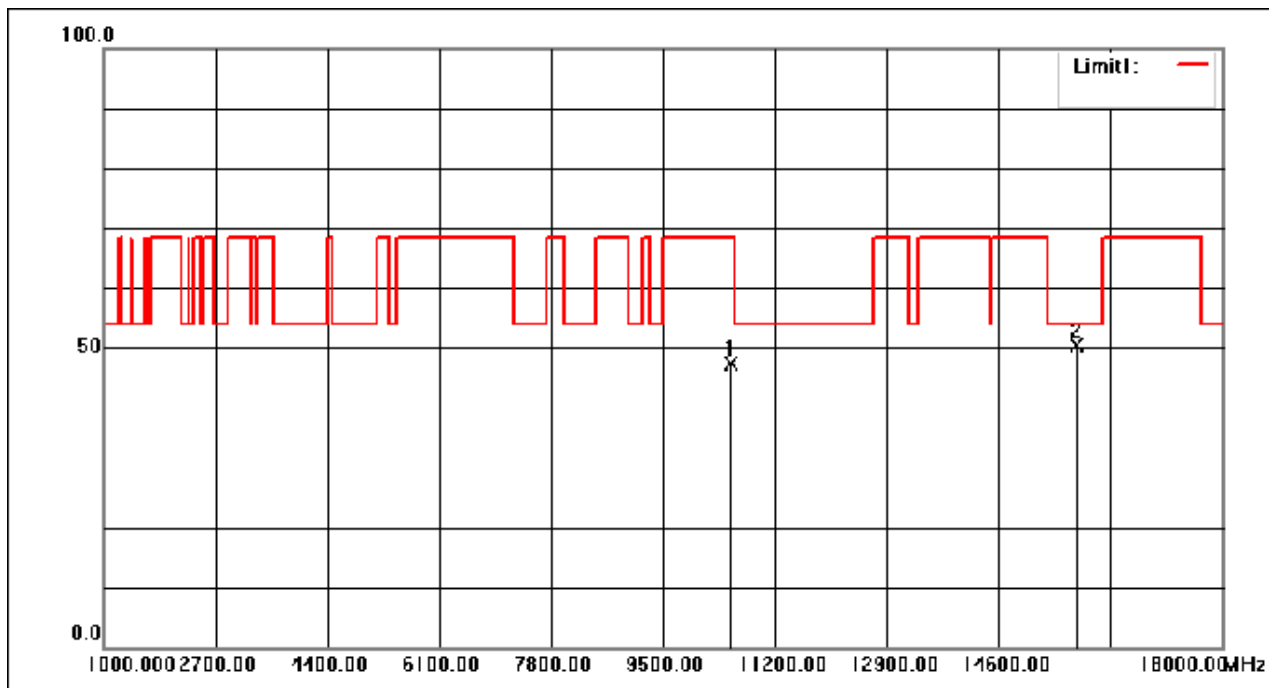
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	49.78	-2.33	47.45	68.30	-20.85	peak
2	15780.000	50.82	-0.49	50.33	54.00	-3.67	peak



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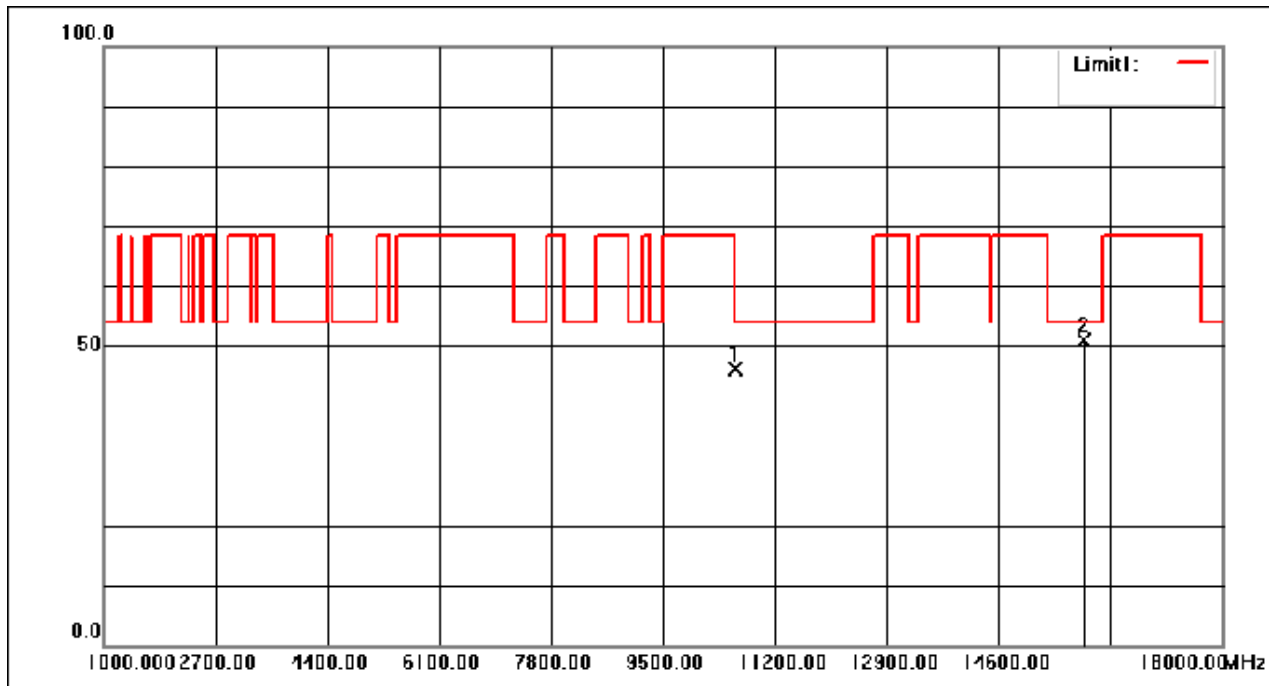
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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	10600.000	48.36	-2.12	46.24	54.00	-7.76	peak
2	15900.000	51.44	-0.58	50.86	54.00	-3.14	peak



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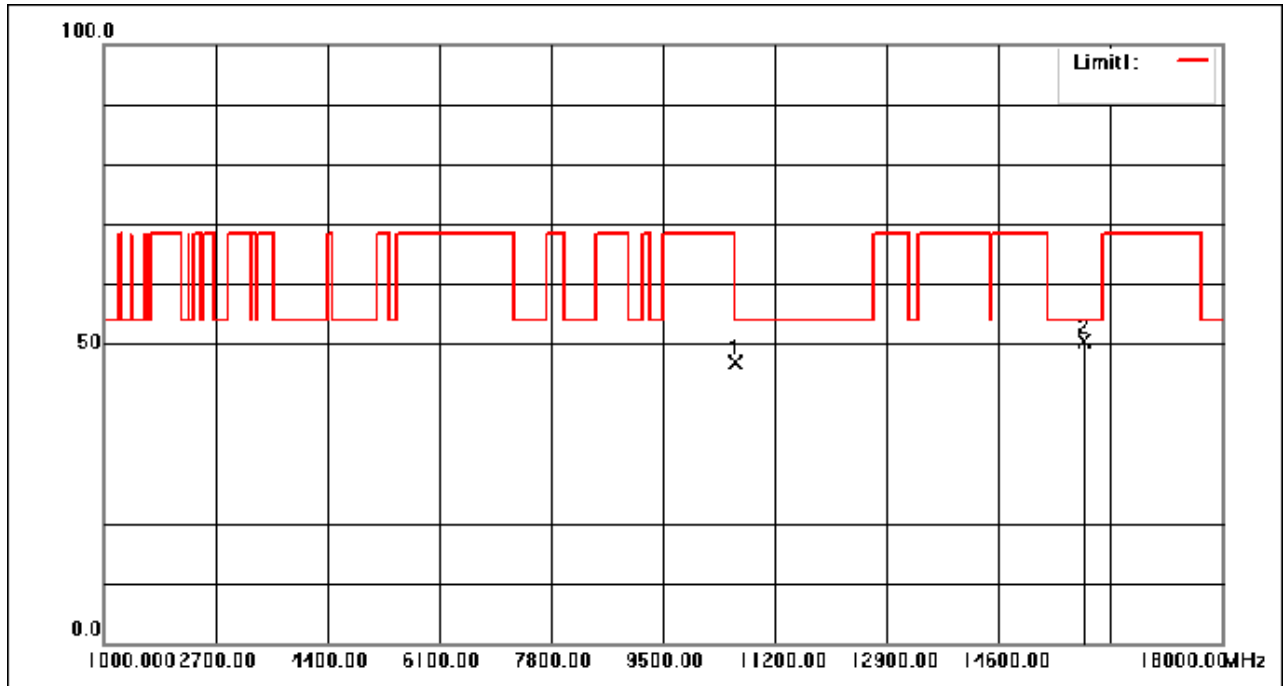
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	48.94	-2.12	46.82	54.00	-7.18	peak
2	15900.000	50.84	-0.58	50.26	54.00	-3.74	peak



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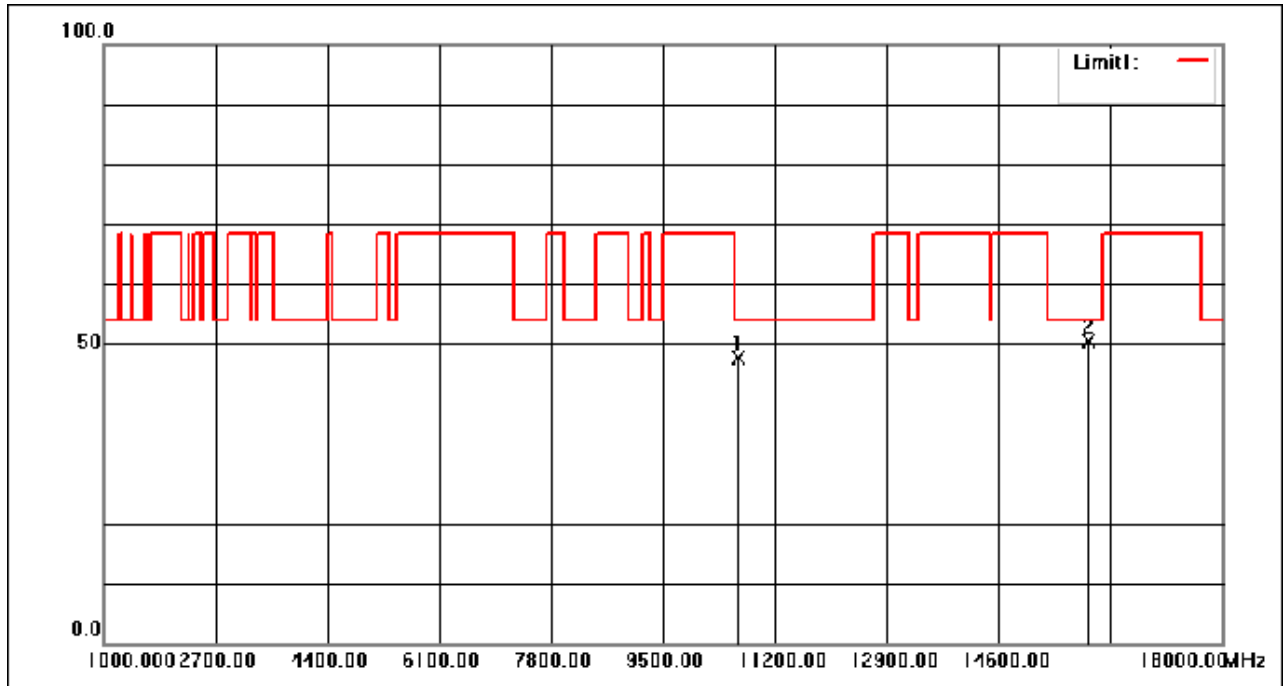
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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	49.57	-2.01	47.56	54.00	-6.44	peak
2	15960.000	50.97	-0.63	50.34	54.00	-3.66	peak



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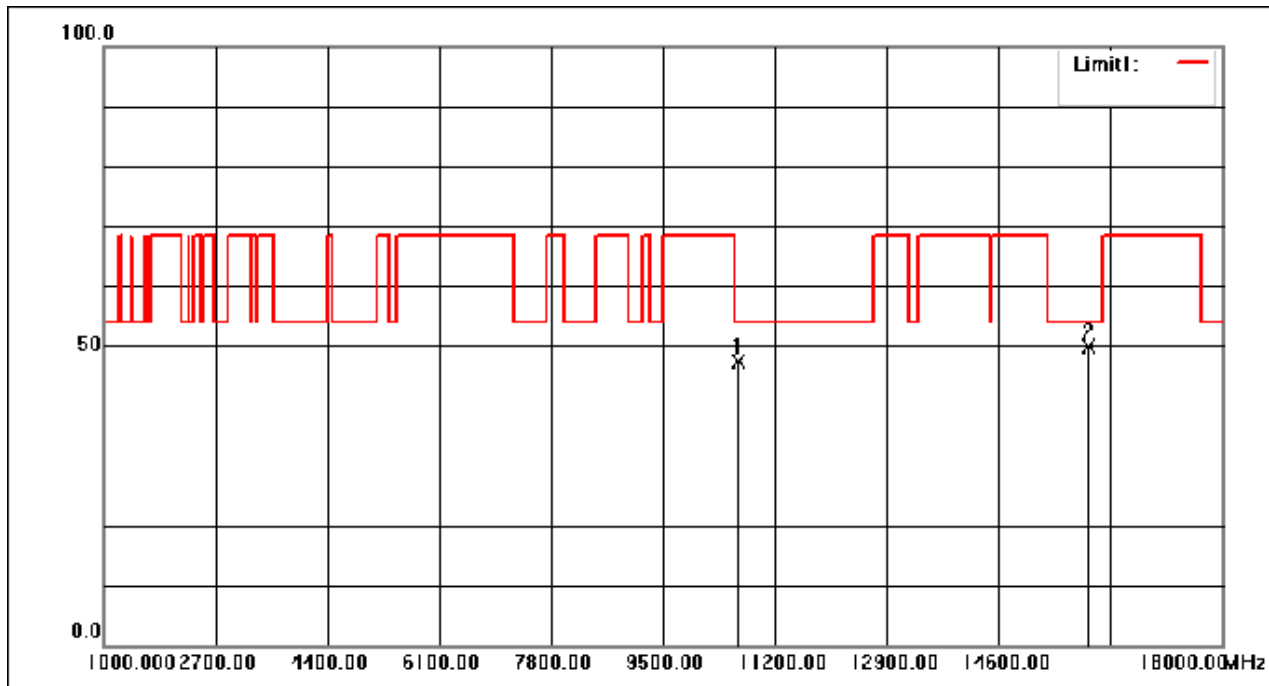
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	49.29	-2.01	47.28	54.00	-6.72	peak
2	15960.000	50.39	-0.63	49.76	54.00	-4.24	peak



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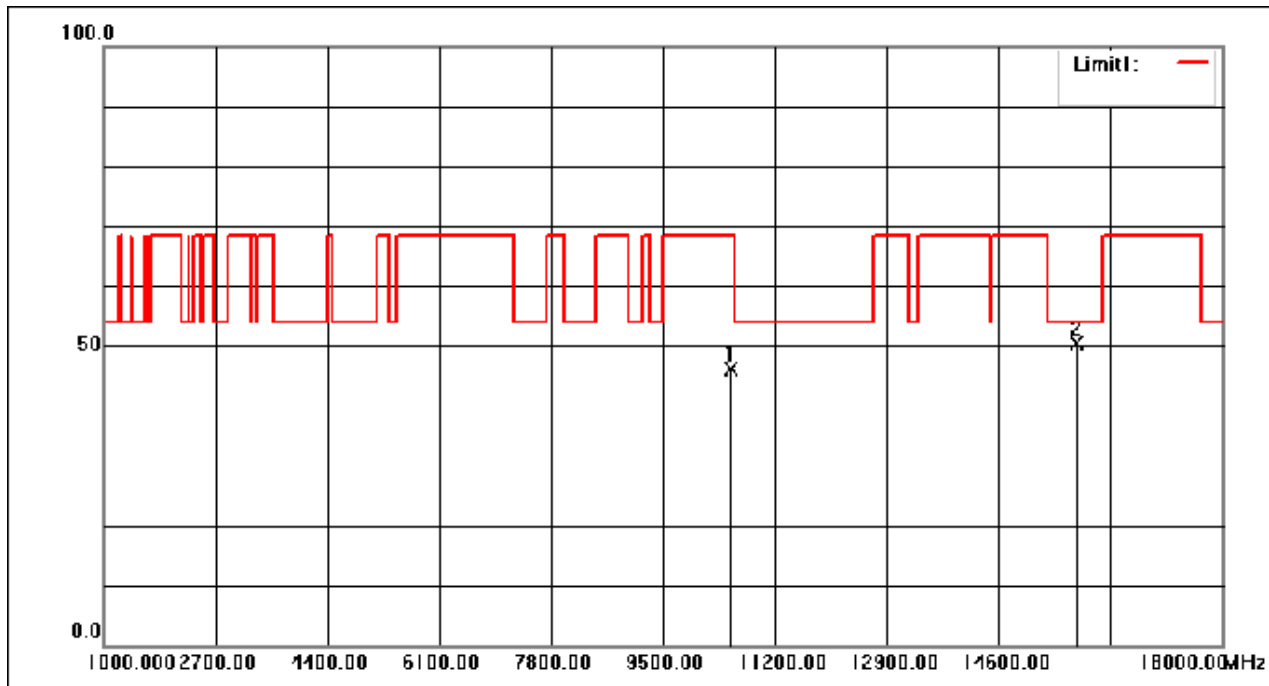
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	48.56	-2.33	46.23	68.30	-22.07	peak
2	15780.000	50.87	-0.49	50.38	54.00	-3.62	peak



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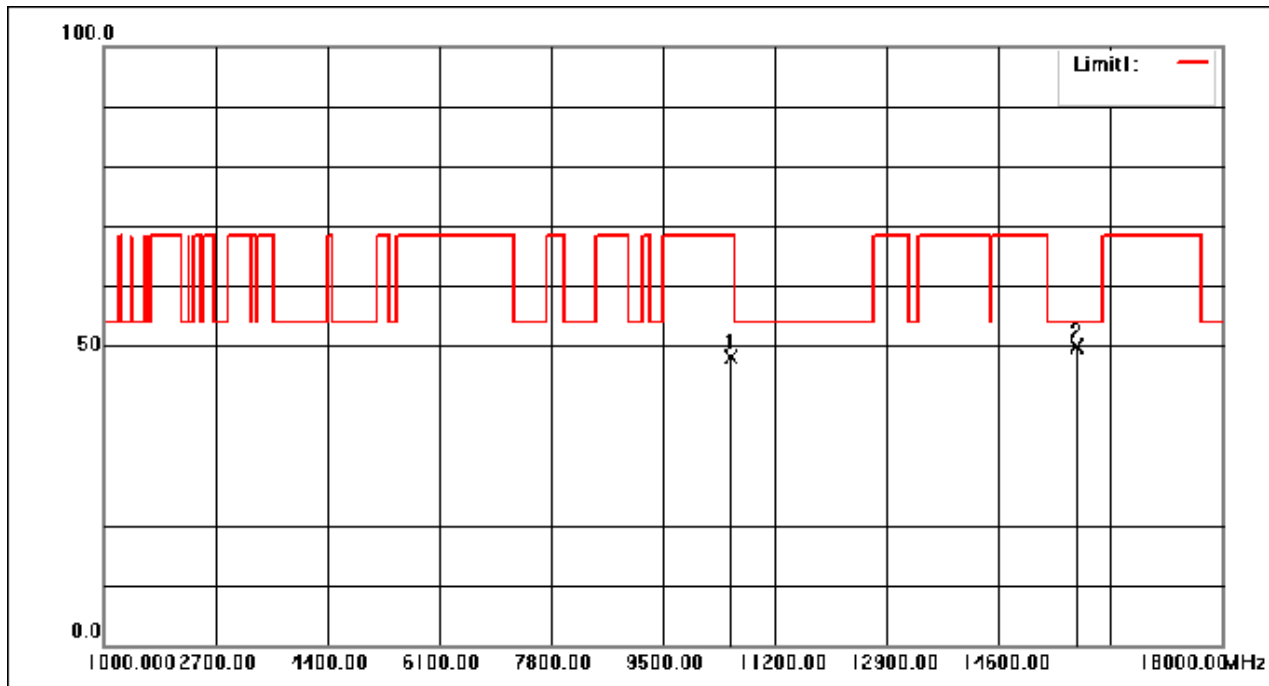
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	50.55	-2.33	48.22	68.30	-20.08	peak
2	15780.000	50.25	-0.49	49.76	54.00	-4.24	peak



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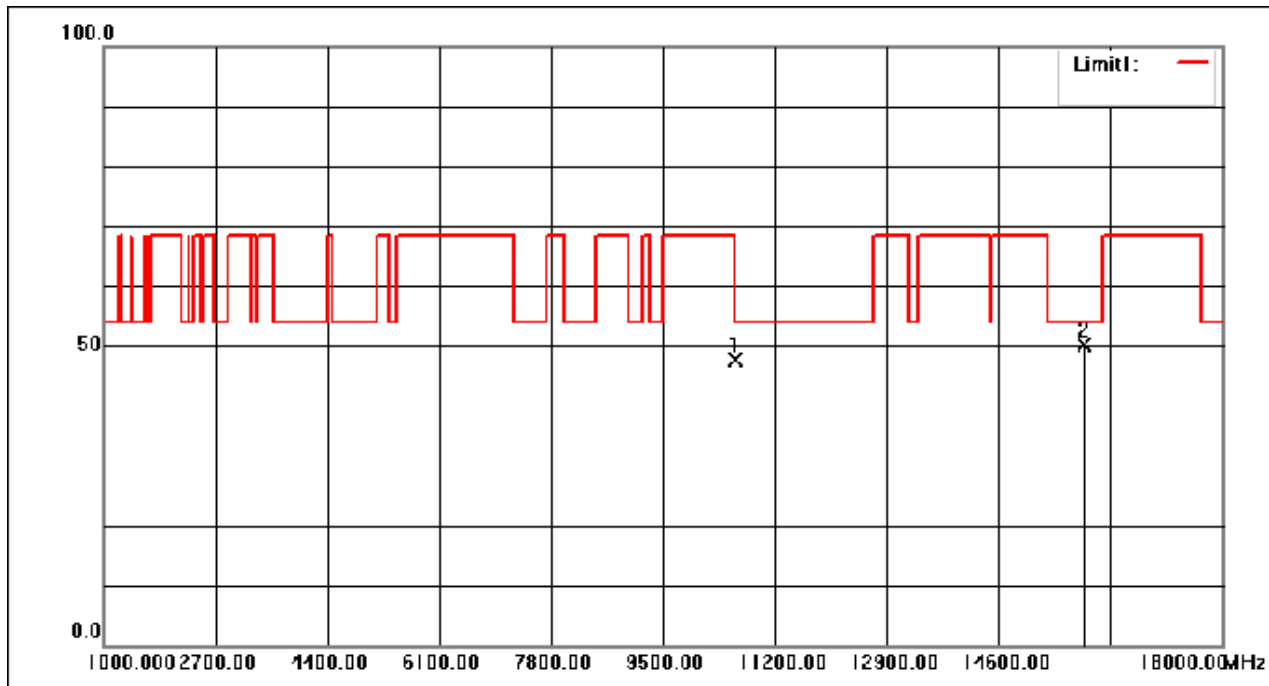
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	49.74	-2.12	47.62	54.00	-6.38	peak
2	15900.000	50.59	-0.58	50.01	54.00	-3.99	peak



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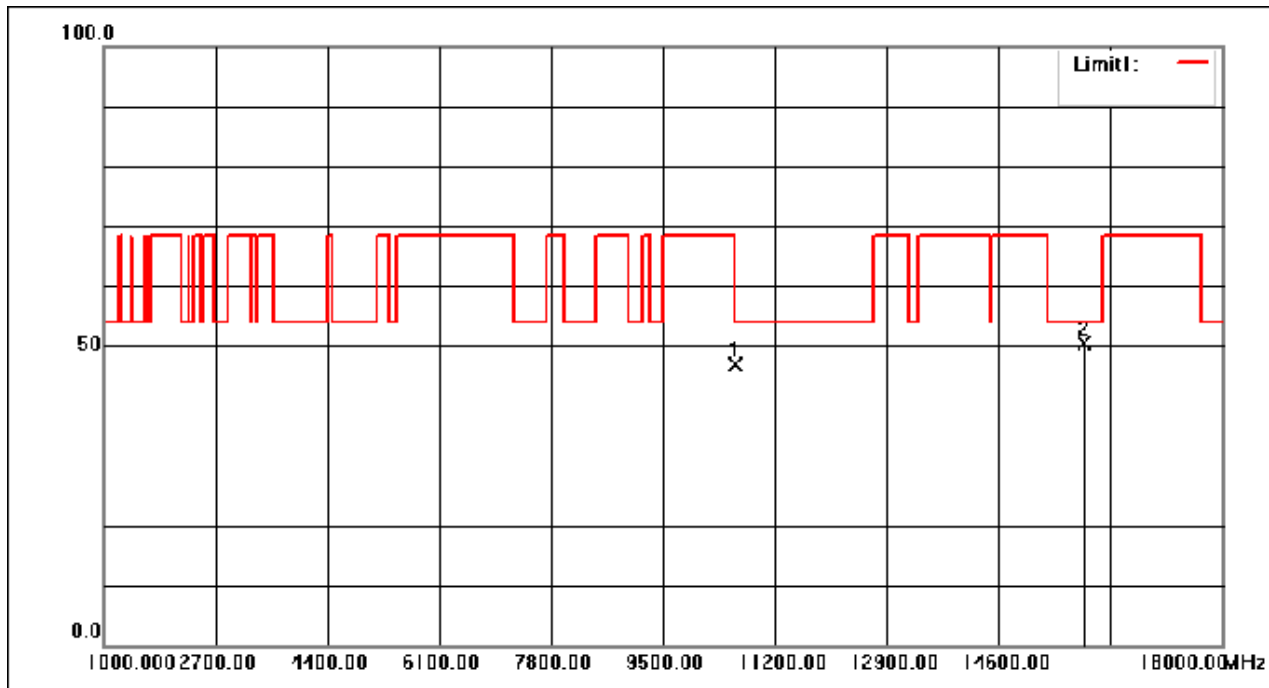
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	49.00	-2.12	46.88	54.00	-7.12	peak
2	15900.000	51.02	-0.58	50.44	54.00	-3.56	peak



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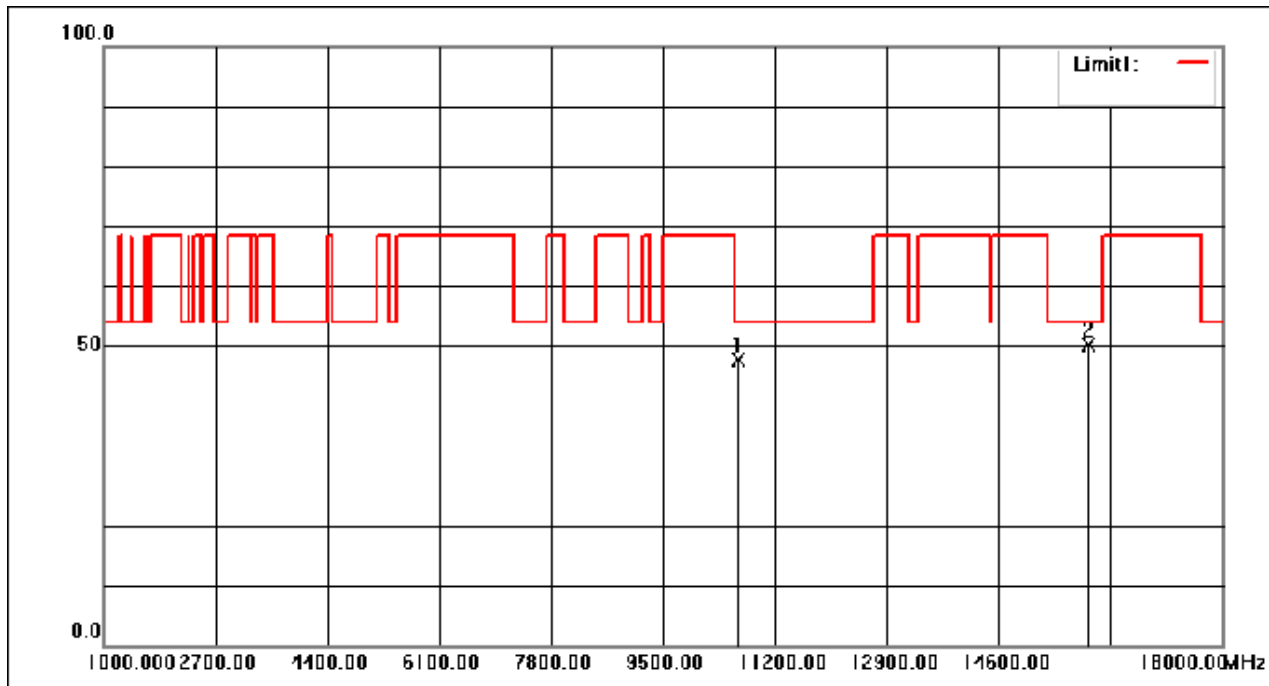
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	49.57	-2.01	47.56	54.00	-6.44	peak
2	15960.000	50.67	-0.63	50.04	54.00	-3.96	peak



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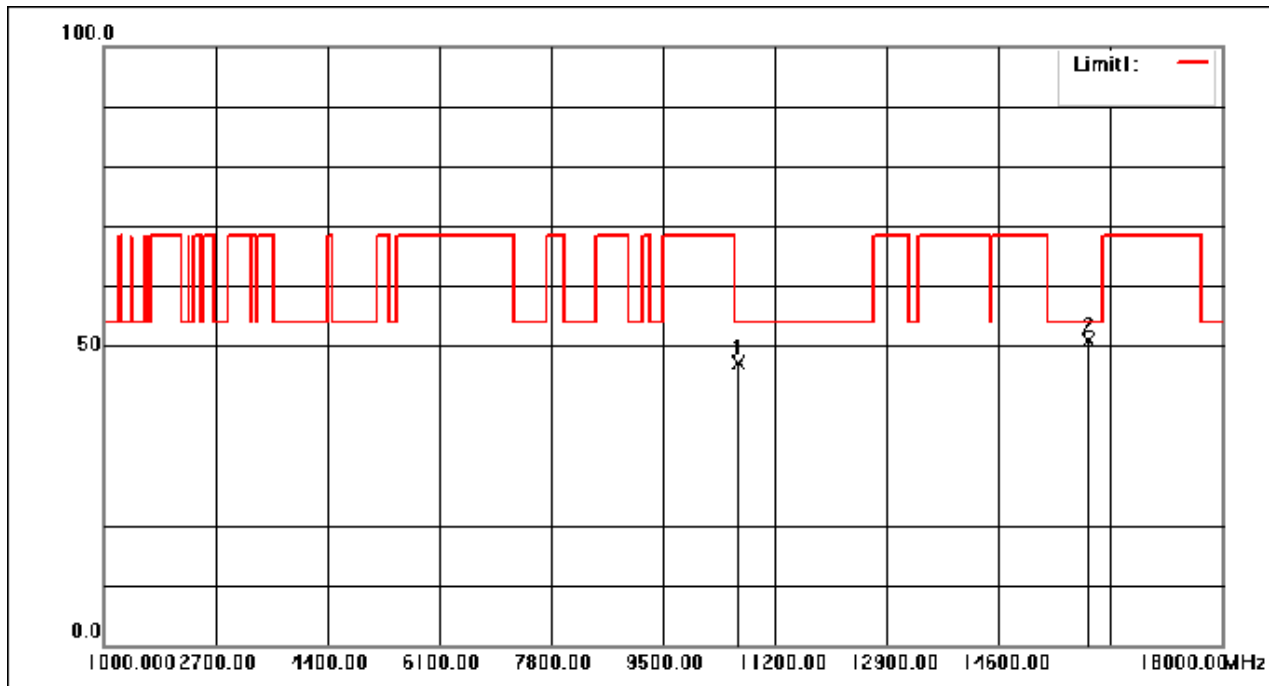
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	49.23	-2.01	47.22	54.00	-6.78	peak
2	15960.000	51.39	-0.63	50.76	54.00	-3.24	peak



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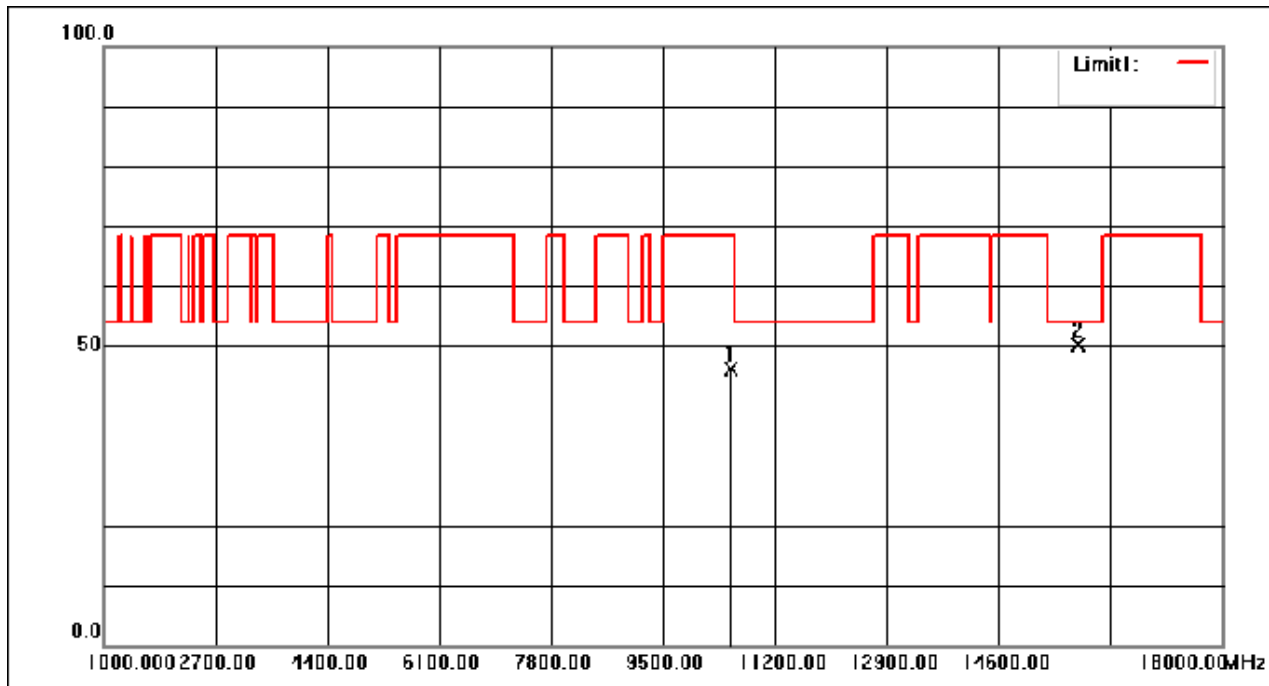
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10540.000	48.40	-2.28	46.12	68.30	-22.18	peak
2	15810.000	50.70	-0.51	50.19	54.00	-3.81	peak



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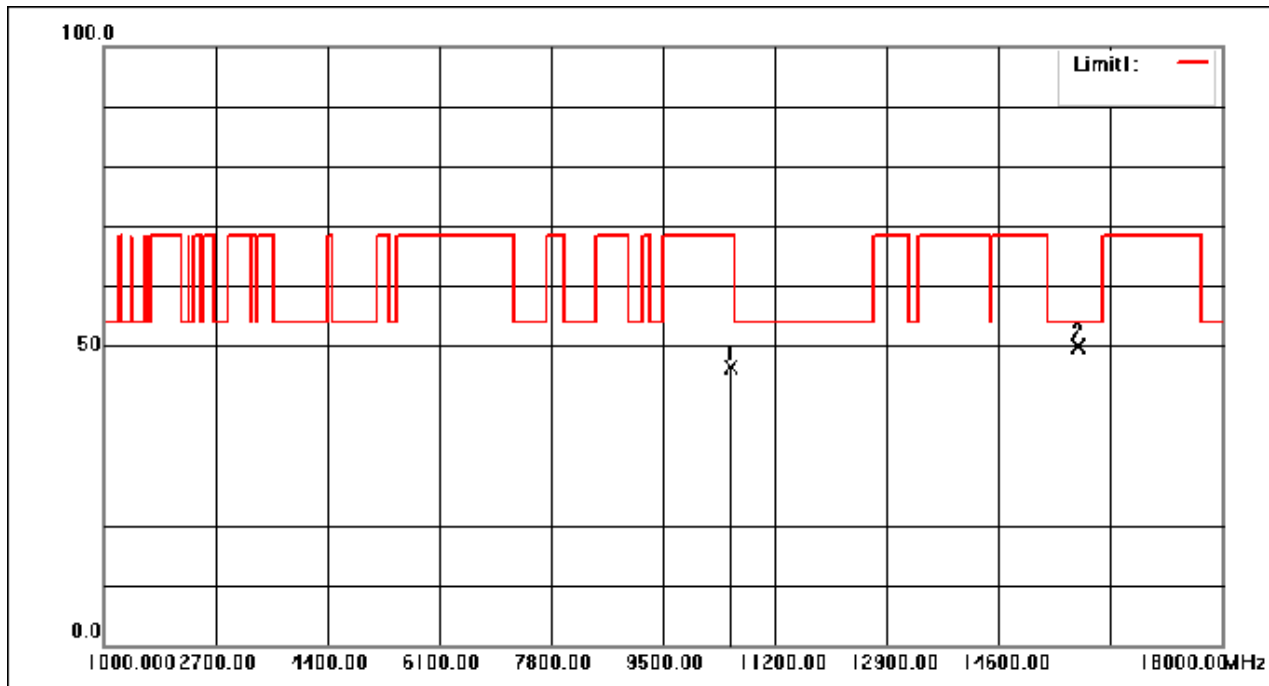
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10540.000	48.59	-2.28	46.31	68.30	-21.99	peak
2	15810.000	50.39	-0.51	49.88	54.00	-4.12	peak



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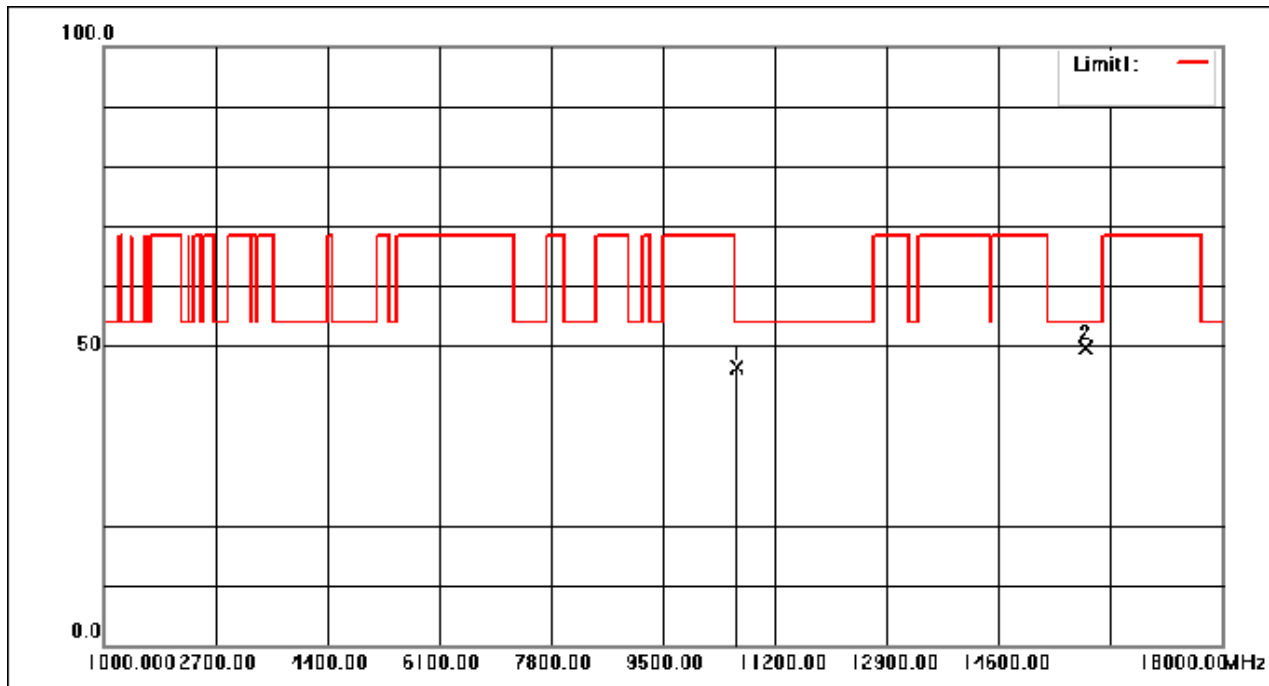
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10620.000	48.38	-2.07	46.31	54.00	-7.69	peak
2	15930.000	50.29	-0.61	49.68	54.00	-4.32	peak



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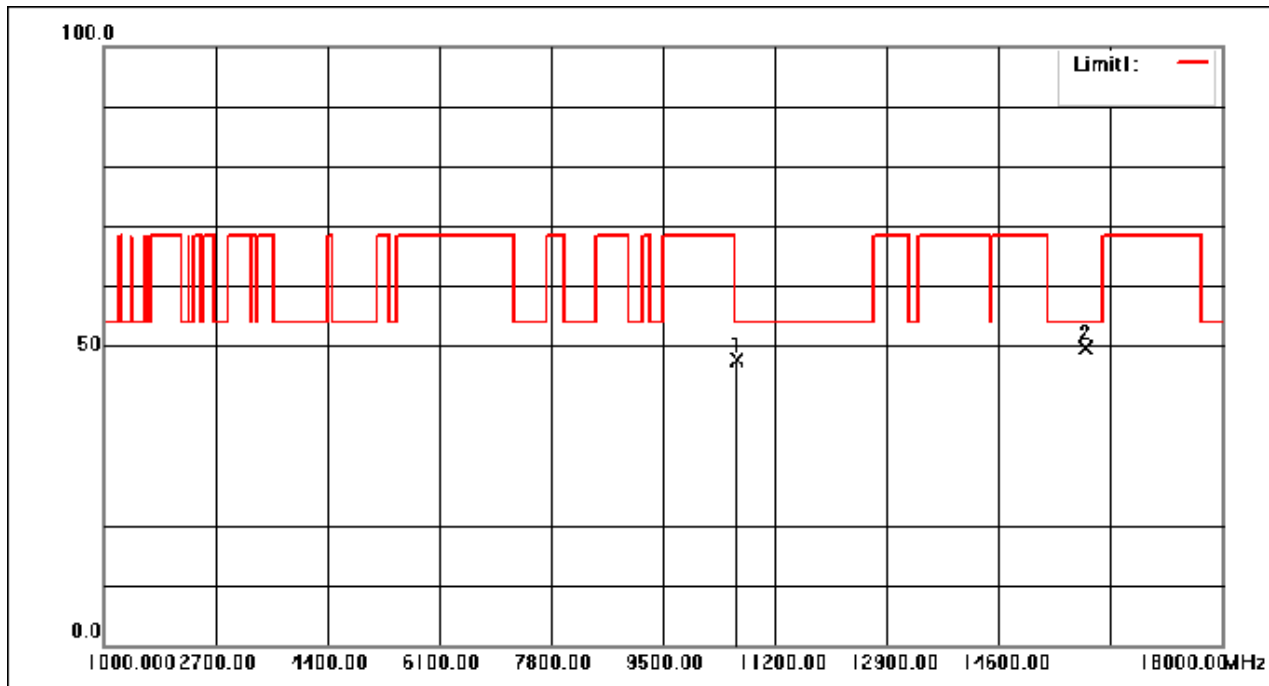
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10620.000	49.66	-2.07	47.59	54.00	-6.41	peak
2	15930.000	50.34	-0.61	49.73	54.00	-4.27	peak



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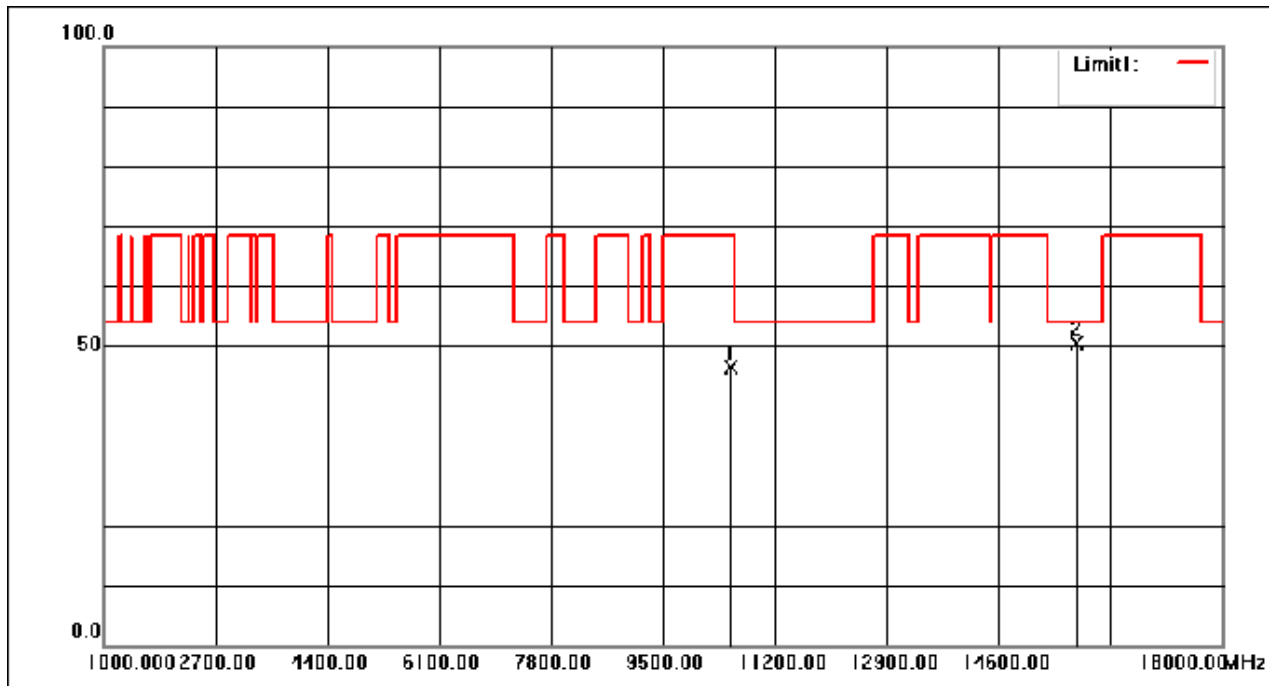
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	48.66	-2.33	46.33	68.30	-21.97	peak
2	15780.000	50.87	-0.49	50.38	54.00	-3.62	peak



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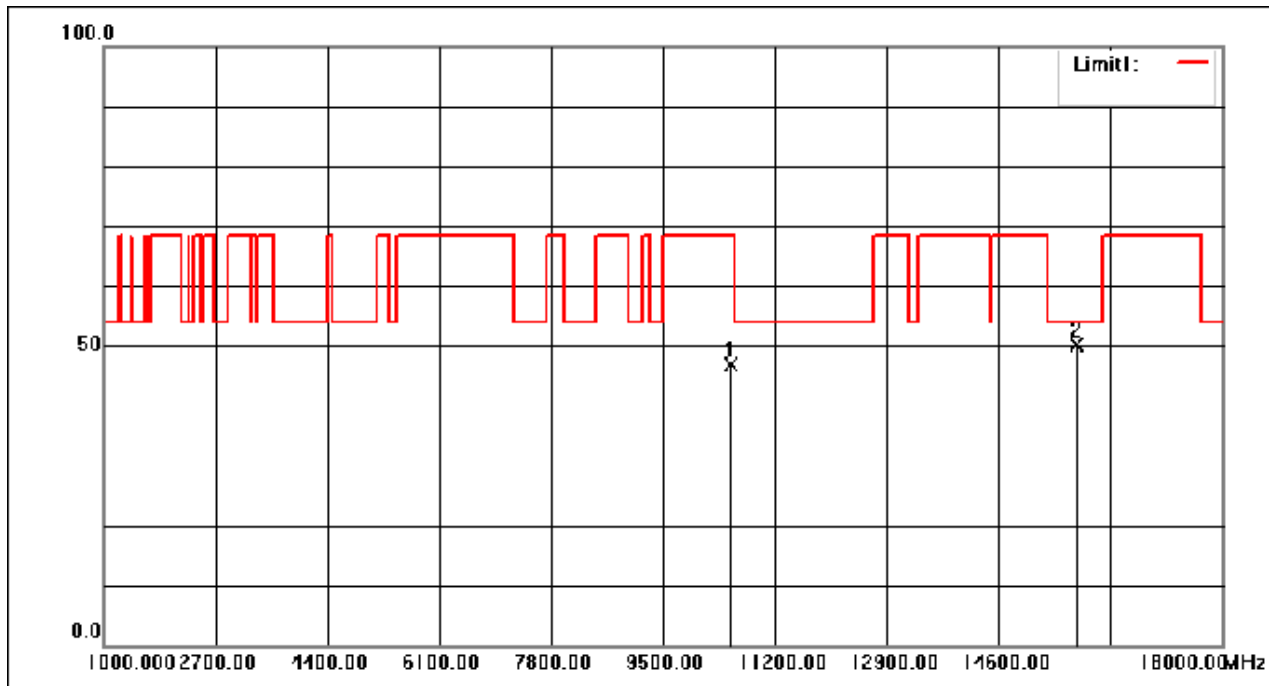
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	49.21	-2.33	46.88	68.30	-21.42	peak
2	15780.000	50.66	-0.49	50.17	54.00	-3.83	peak



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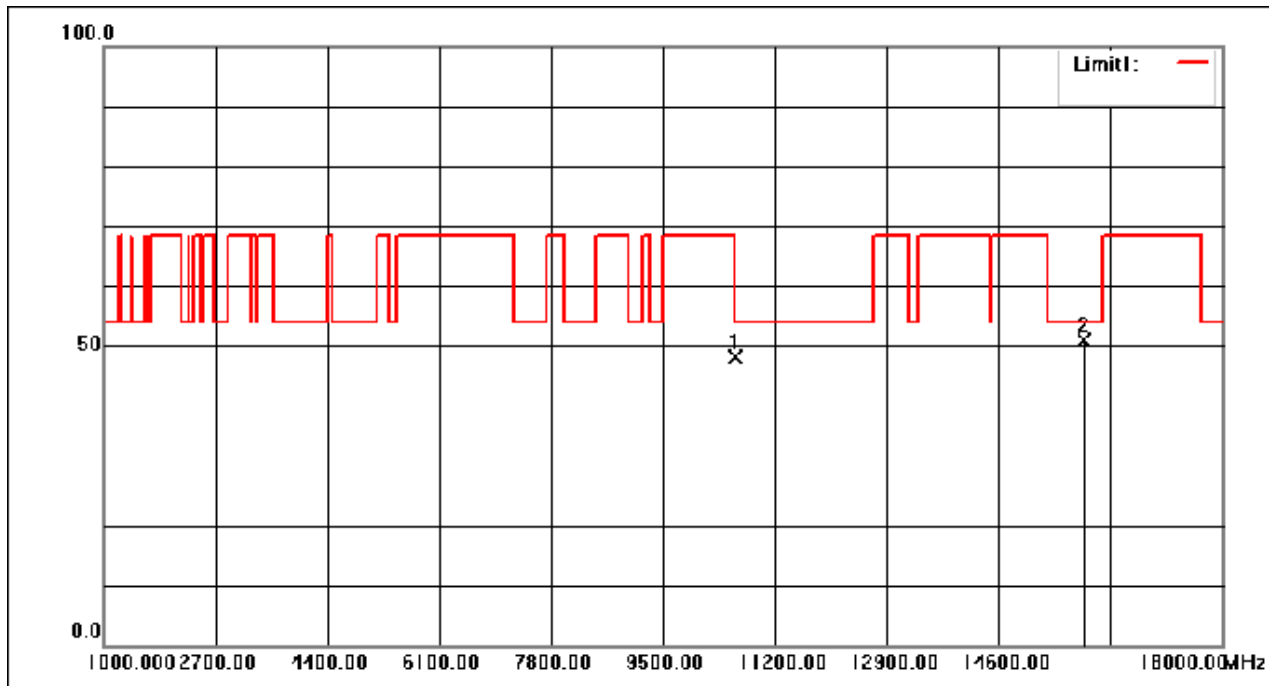
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	50.30	-2.12	48.18	54.00	-5.82	peak
2	15900.000	51.43	-0.58	50.85	54.00	-3.15	peak



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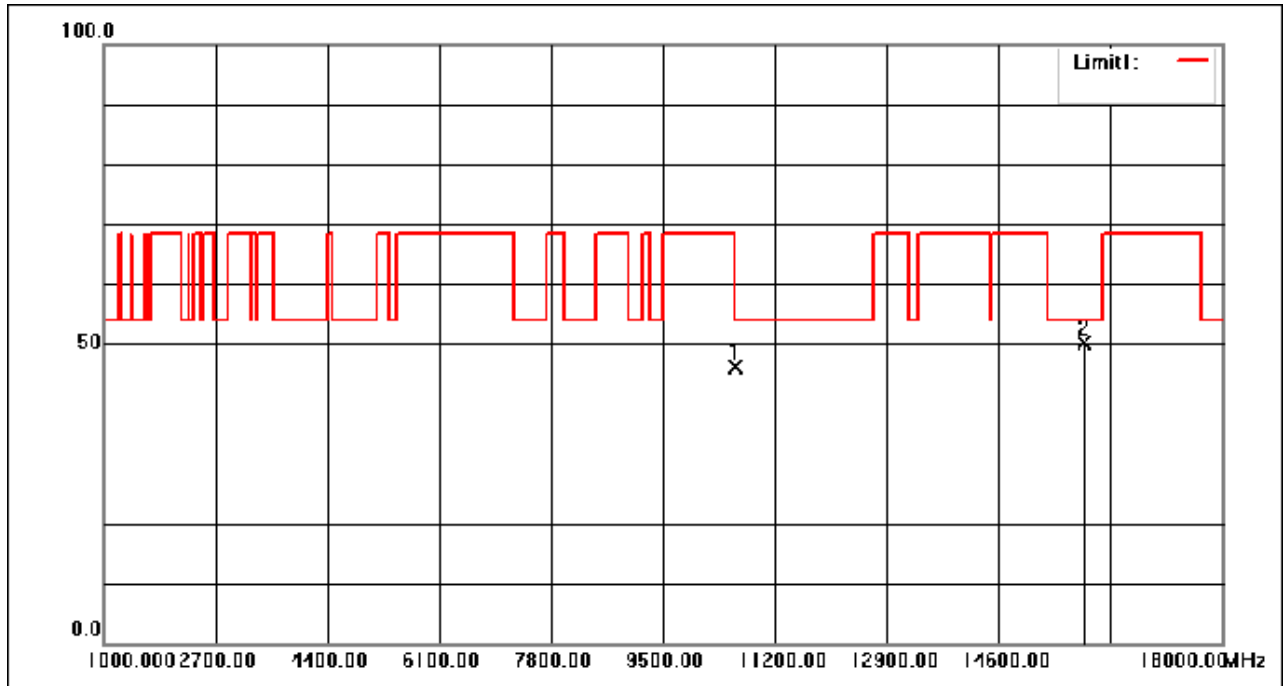


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(Shanghai) Co., Ltd.

Report No.: SHEM200900737903

Page: 150 of 224

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	48.37	-2.12	46.25	54.00	-7.75	peak
2	15900.000	50.77	-0.58	50.19	54.00	-3.81	peak



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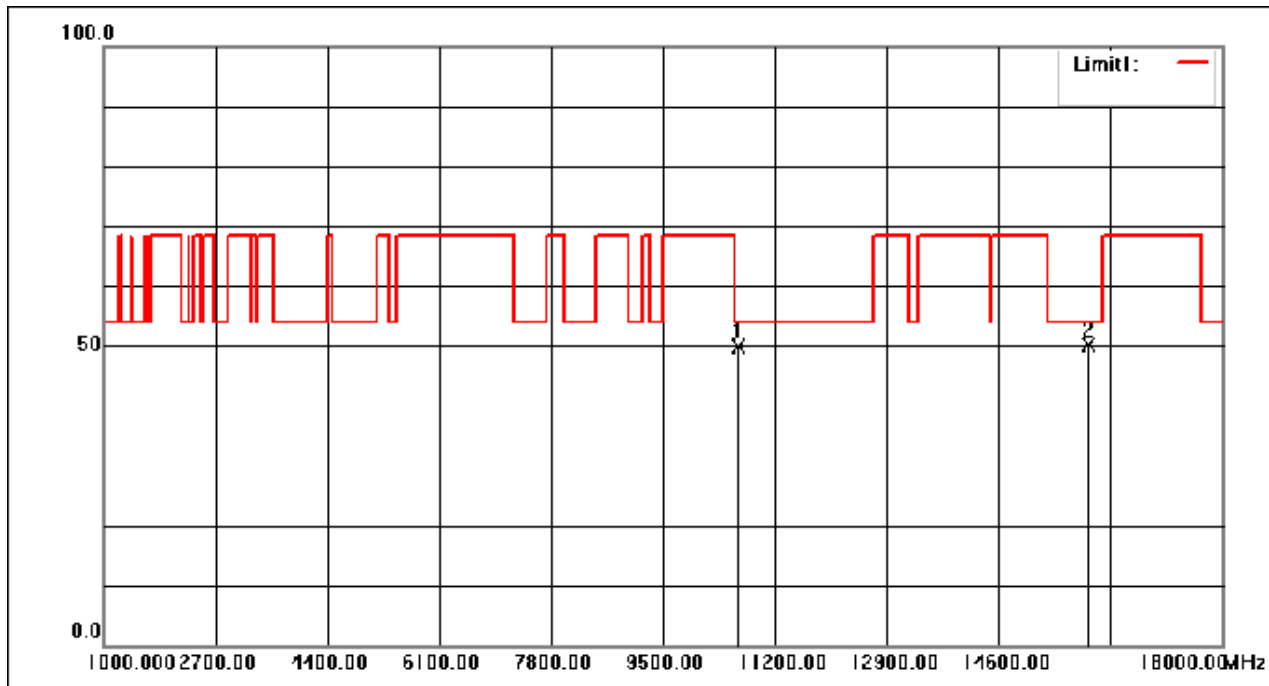
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	51.92	-2.01	49.91	54.00	-4.09	peak
2	15960.000	50.80	-0.63	50.17	54.00	-3.83	peak



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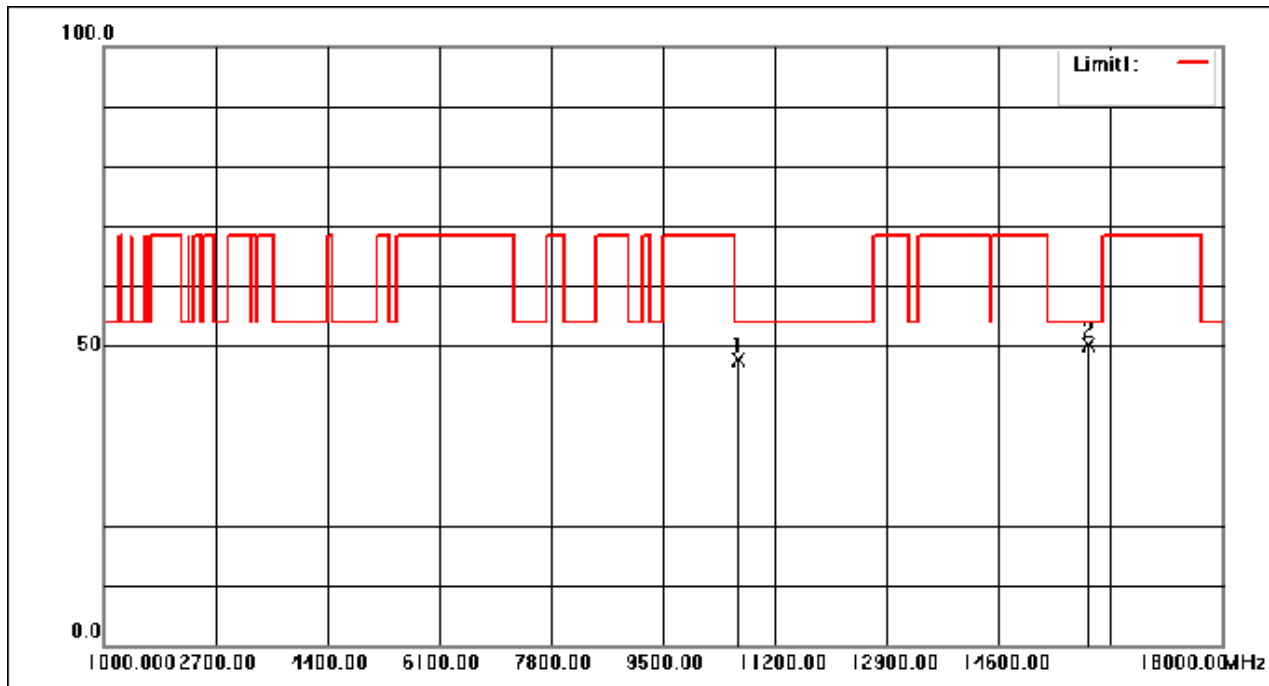
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	49.59	-2.01	47.58	54.00	-6.42	peak
2	15960.000	50.81	-0.63	50.18	54.00	-3.82	peak



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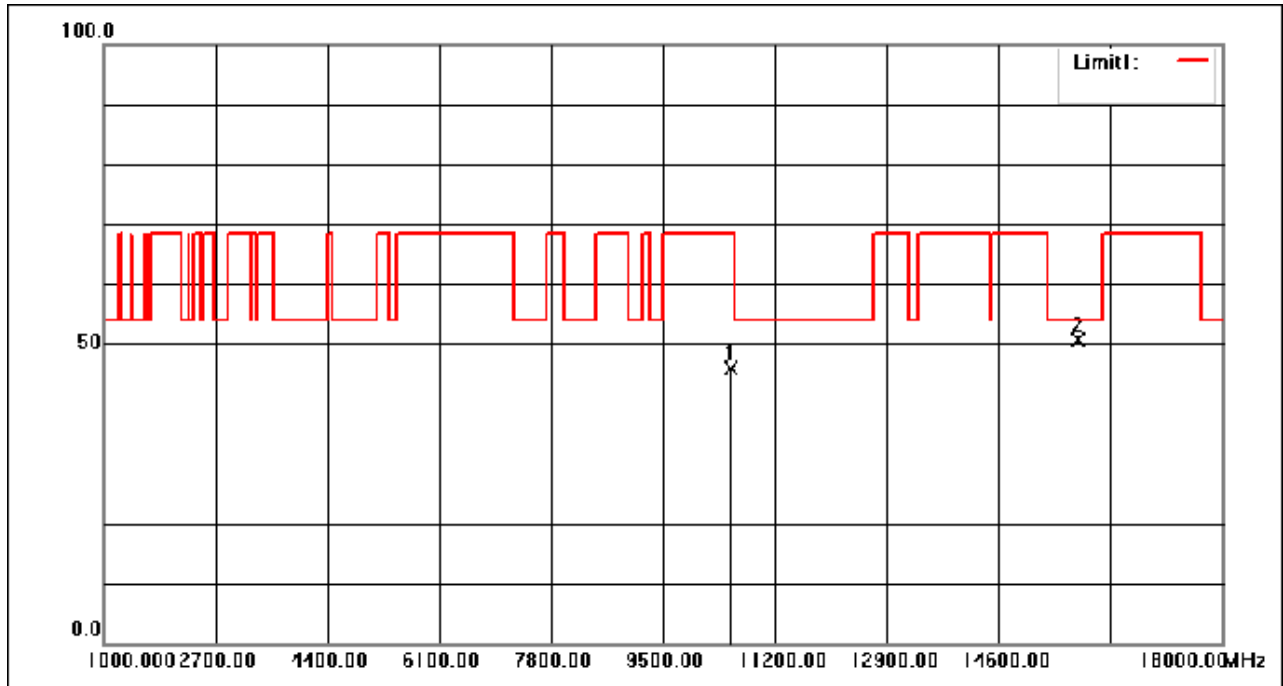
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10540.000	48.21	-2.28	45.93	68.30	-22.37	peak
2	15810.000	51.13	-0.51	50.62	54.00	-3.38	peak



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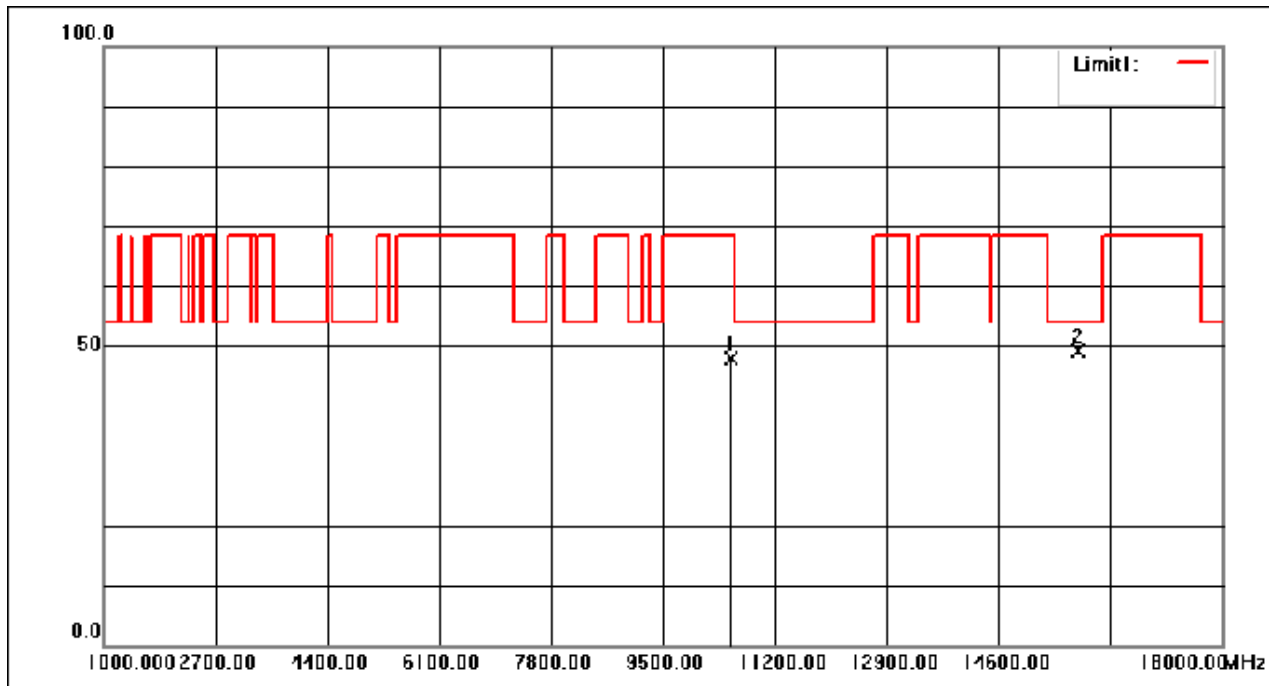
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10540.000	50.04	-2.28	47.76	68.30	-20.54	peak
2	15810.000	49.74	-0.51	49.23	54.00	-4.77	peak



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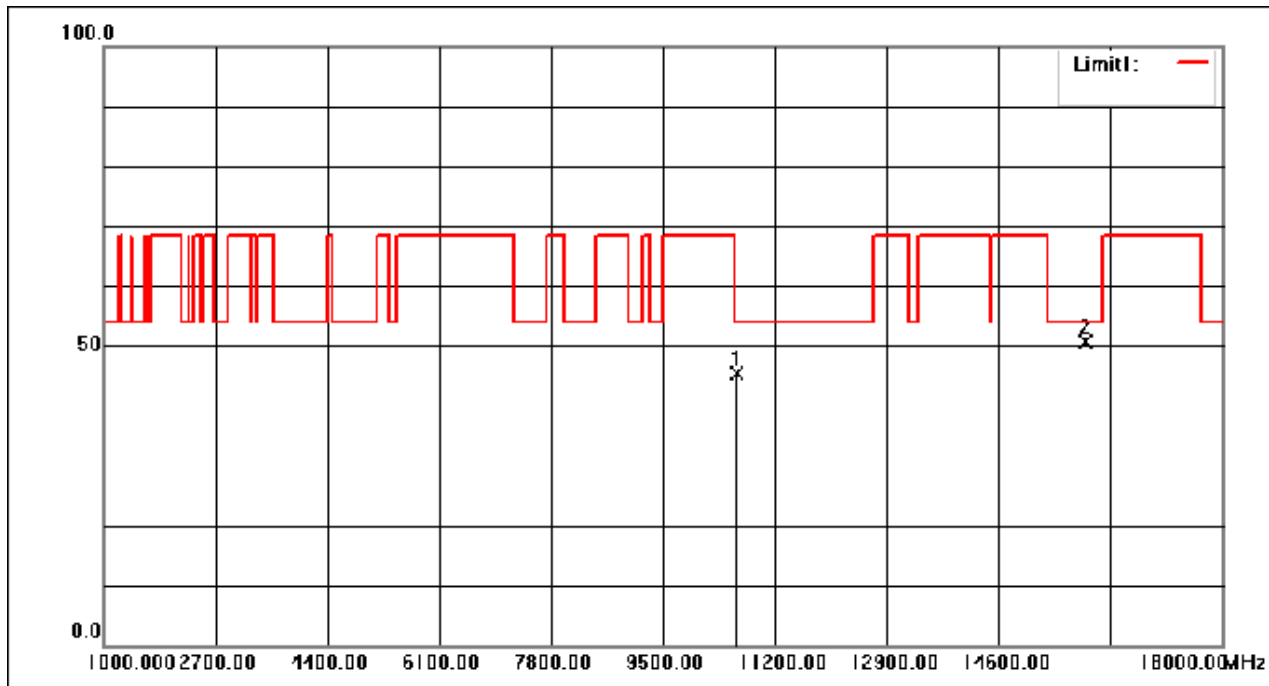
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10620.000	47.36	-2.07	45.29	54.00	-8.71	peak
2	15930.000	51.27	-0.61	50.66	54.00	-3.34	peak



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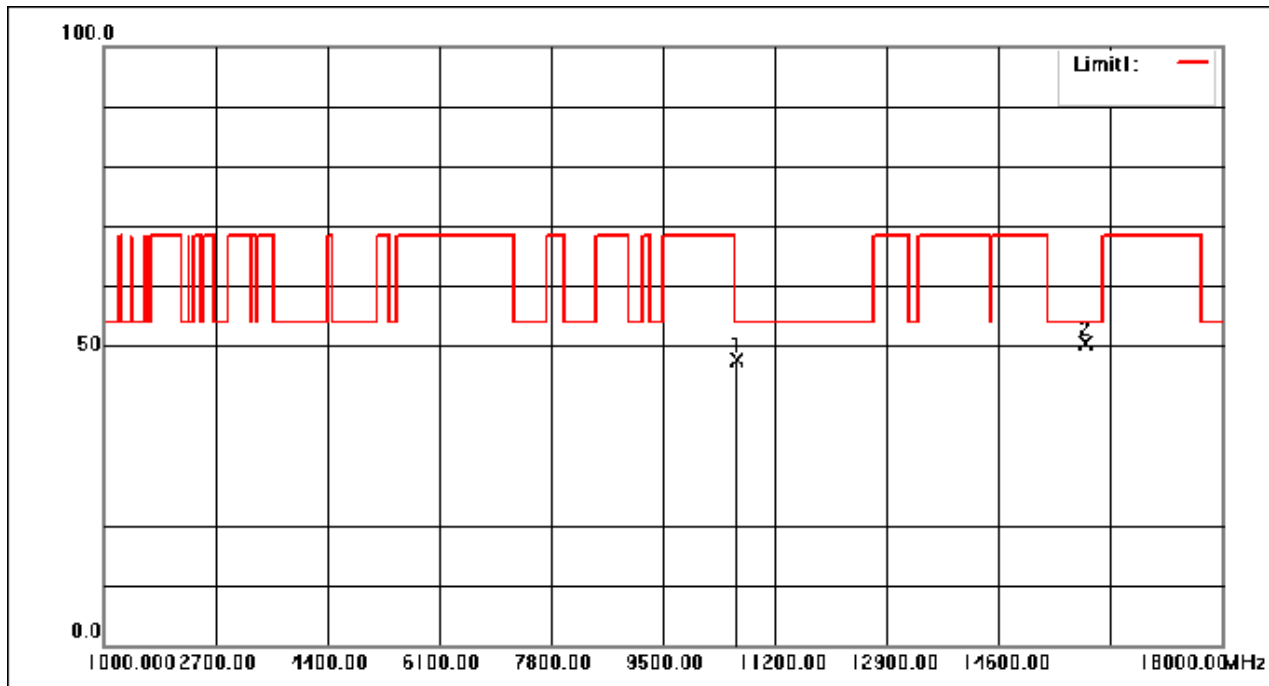
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10620.000	49.61	-2.07	47.54	54.00	-6.46	peak
2	15930.000	50.98	-0.61	50.37	54.00	-3.63	peak



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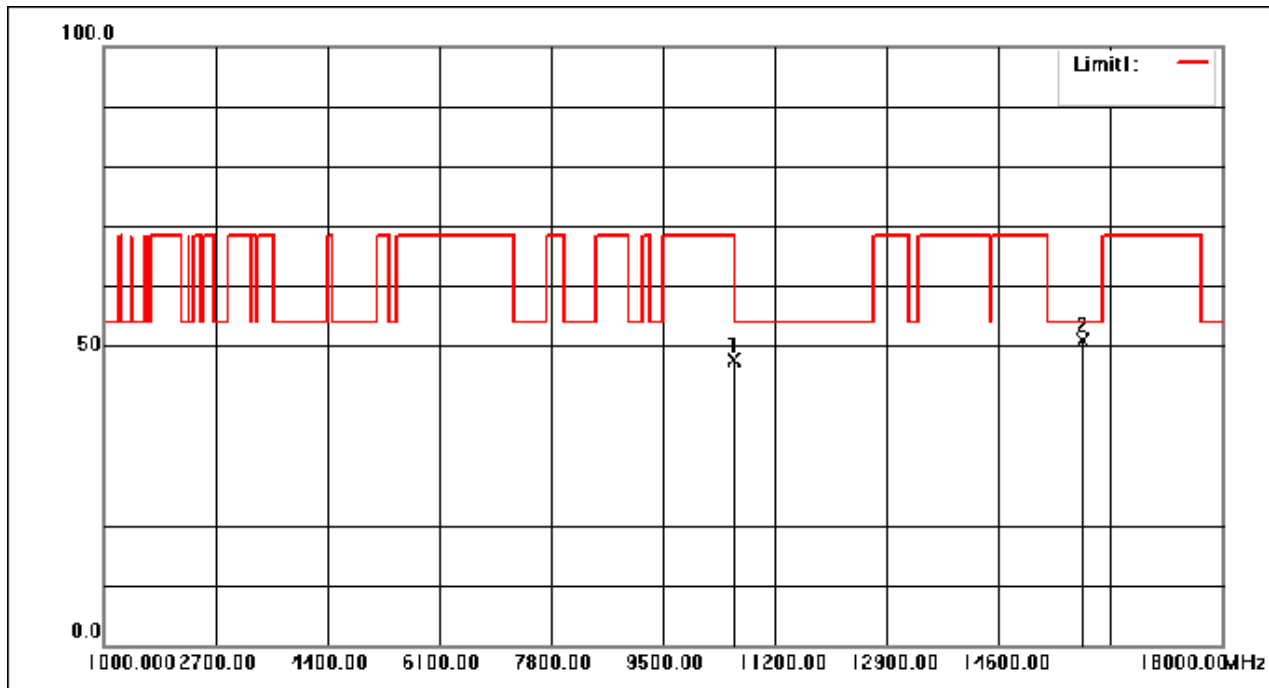
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10580.000	49.83	-2.17	47.66	68.30	-20.64	peak
2	15870.000	51.37	-0.56	50.81	54.00	-3.19	peak



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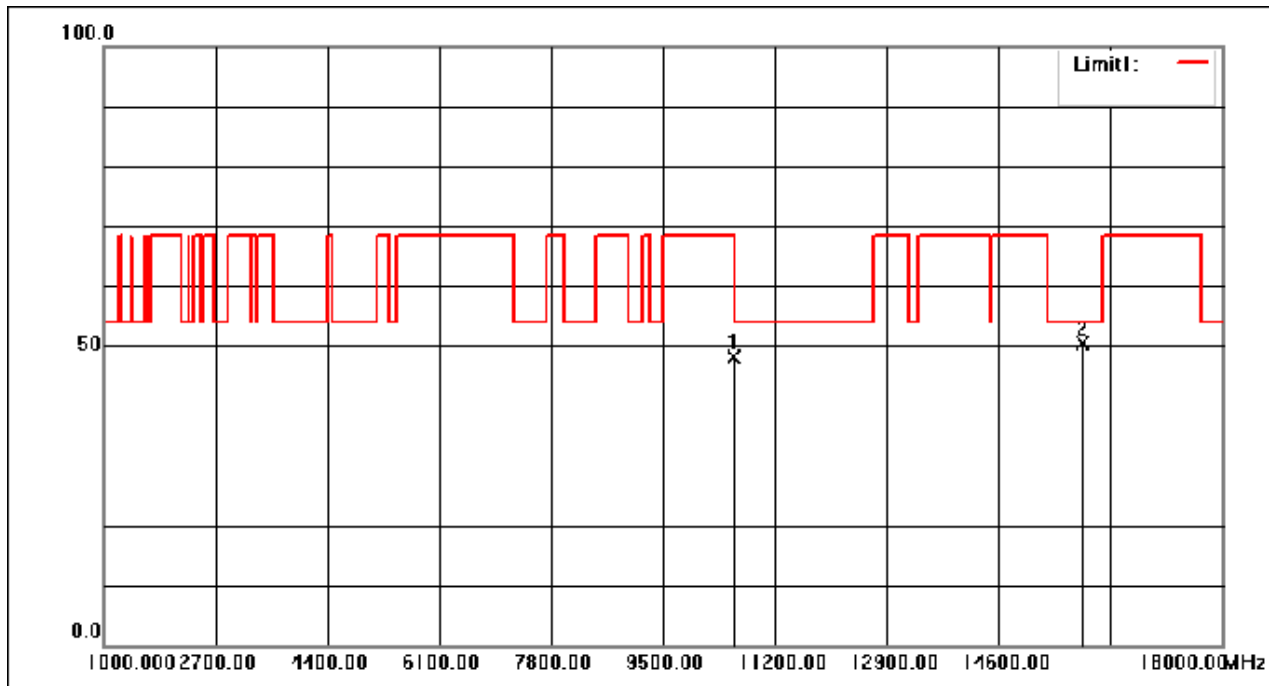
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10580.000	50.19	-2.17	48.02	68.30	-20.28	peak
2	15870.000	51.02	-0.56	50.46	54.00	-3.54	peak



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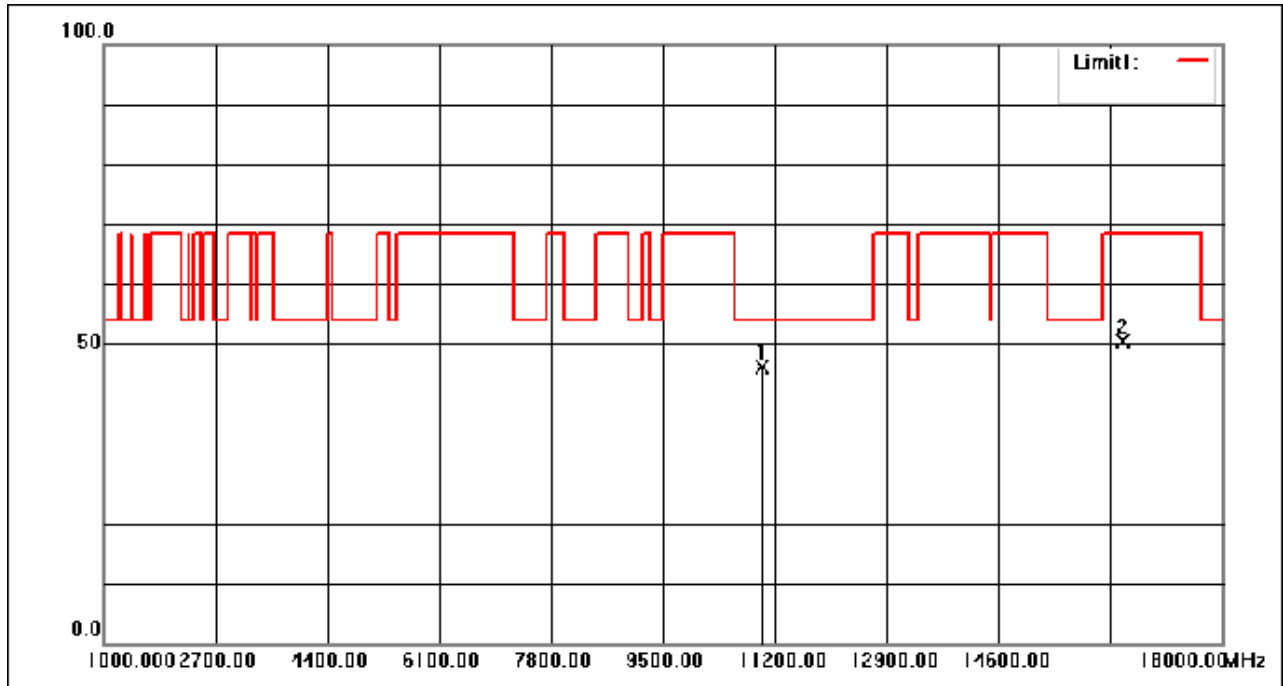
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Mode:f; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	47.22	-1.07	46.15	54.00	-7.85	peak
2	16500.000	50.22	0.28	50.50	68.30	-17.80	peak



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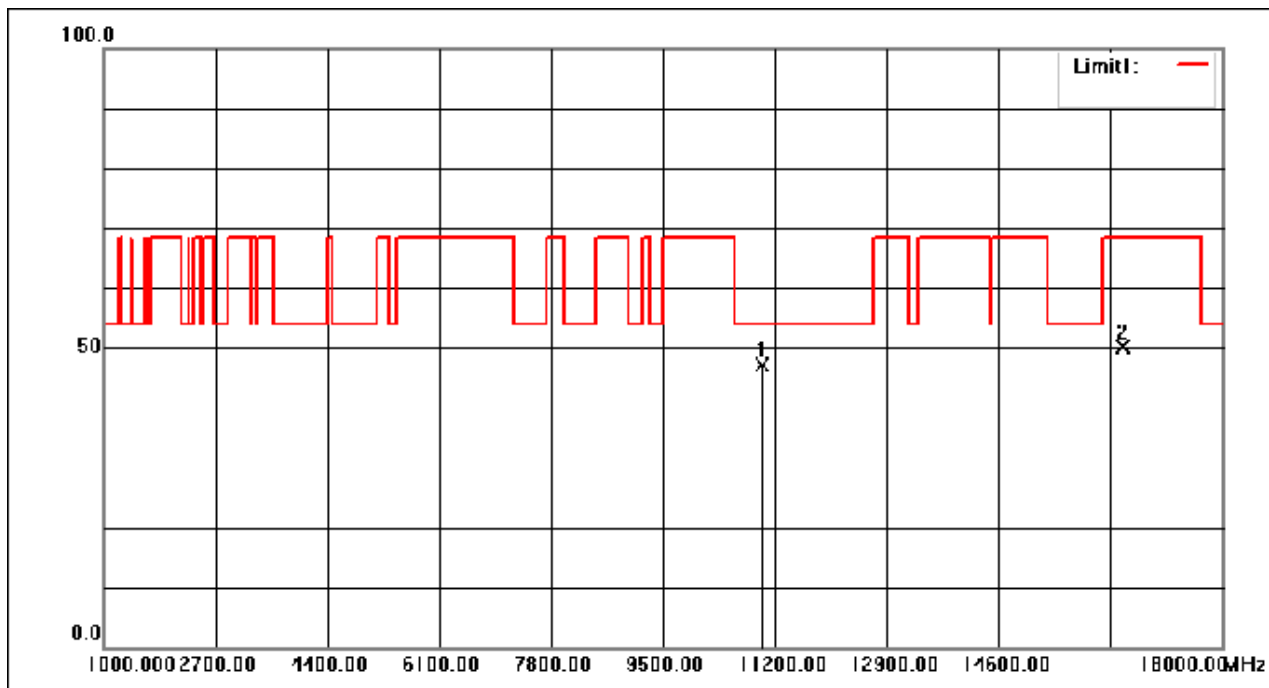
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Mode:f; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	48.13	-1.07	47.06	54.00	-6.94	peak
2	16500.000	49.91	0.28	50.19	68.30	-18.11	peak



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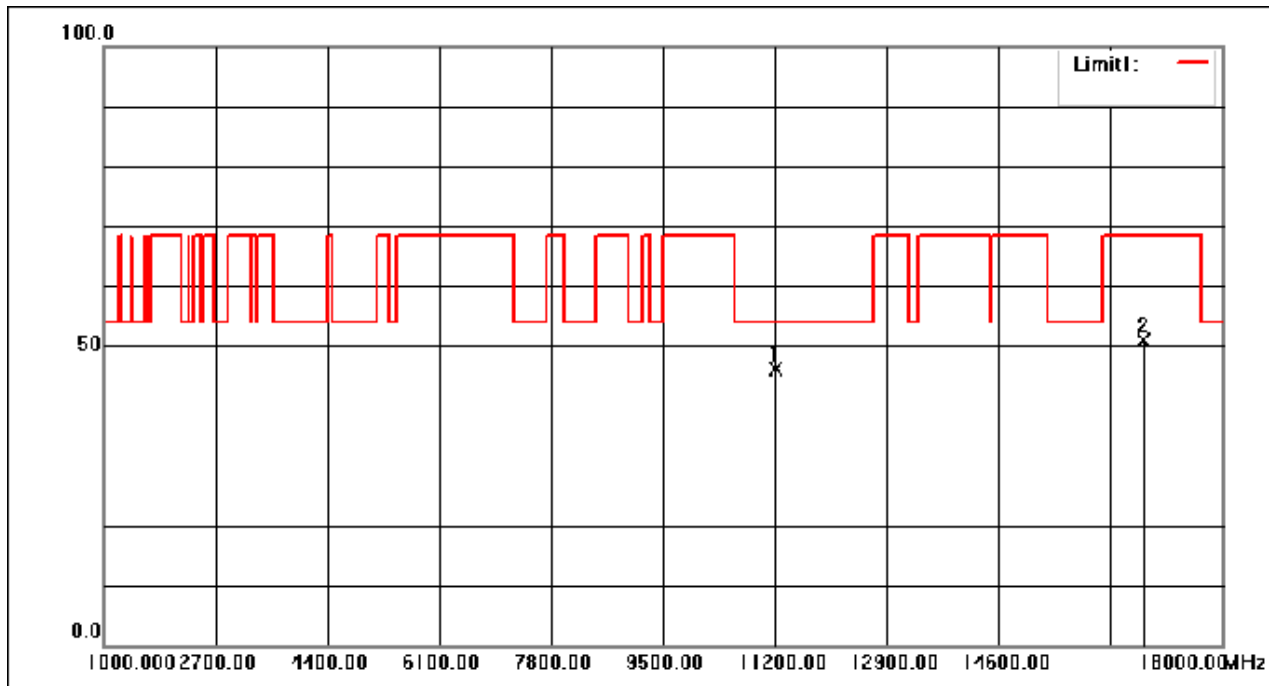
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Mode:f; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11200.000	47.77	-1.55	46.22	54.00	-7.78	peak
2	16800.000	50.78	0.11	50.89	68.30	-17.41	peak



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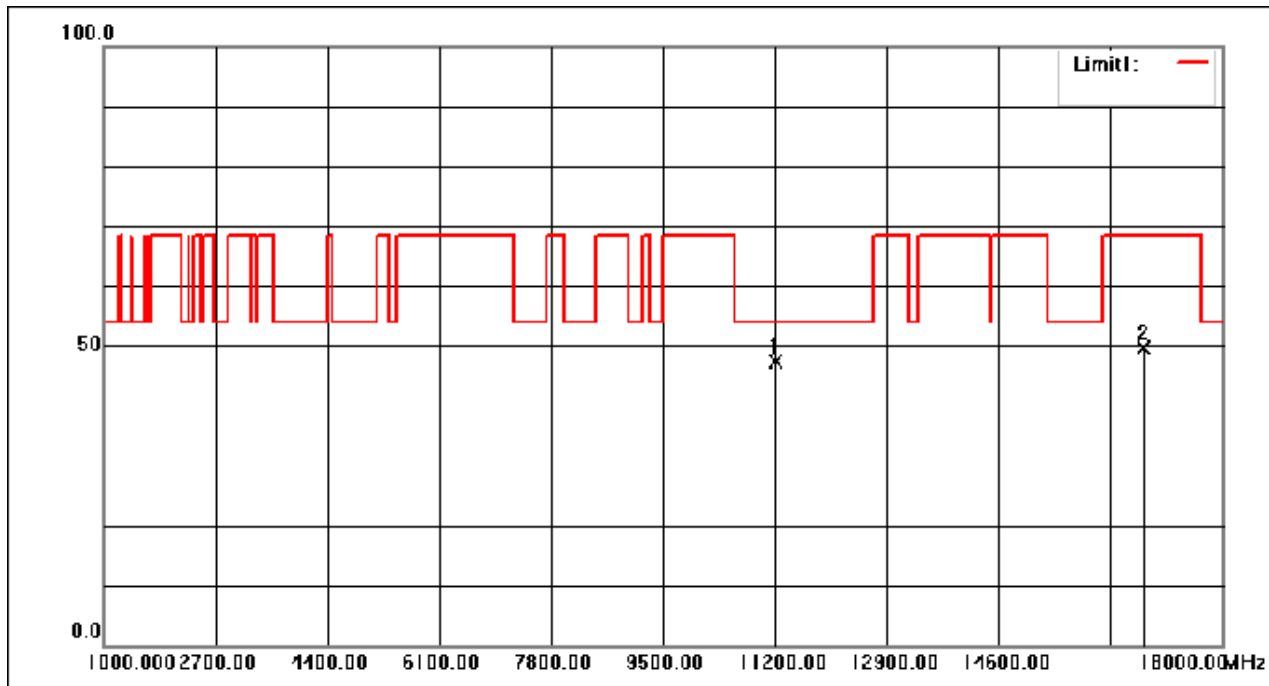
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Mode:f; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11200.000	48.97	-1.55	47.42	54.00	-6.58	peak
2	16800.000	49.46	0.11	49.57	68.30	-18.73	peak



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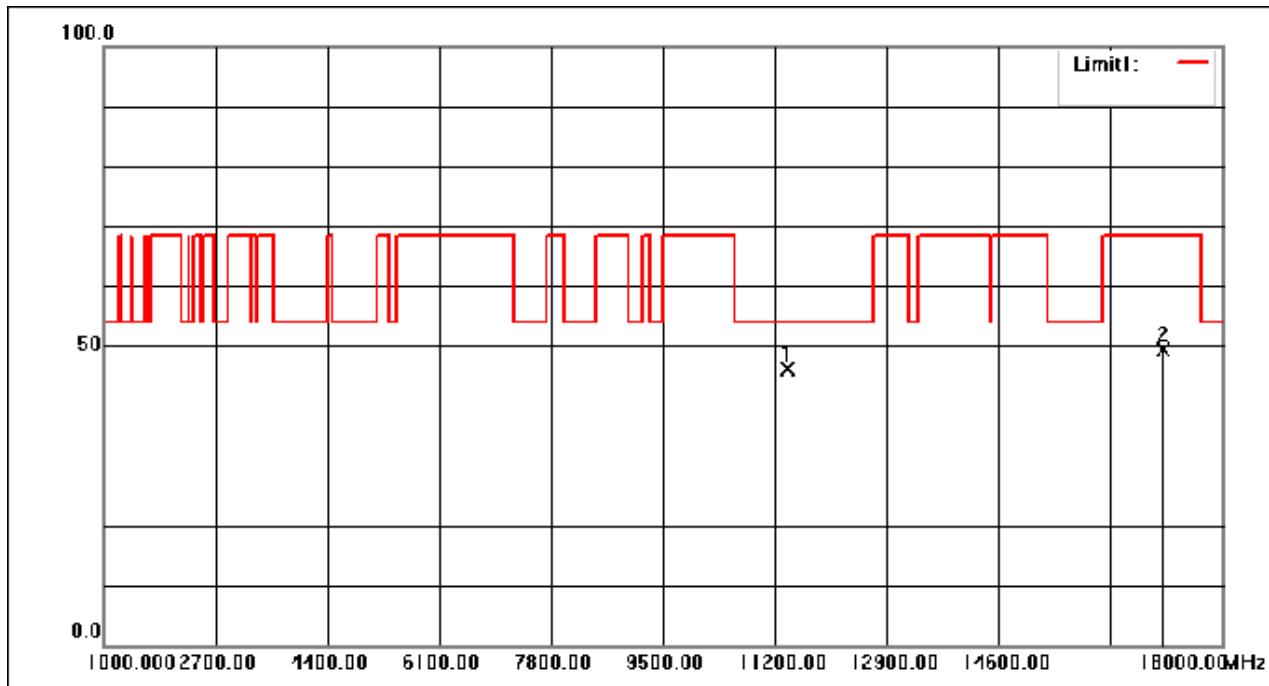
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Mode:f; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	48.17	-2.02	46.15	54.00	-7.85	peak
2	17100.000	49.34	-0.08	49.26	68.30	-19.04	peak



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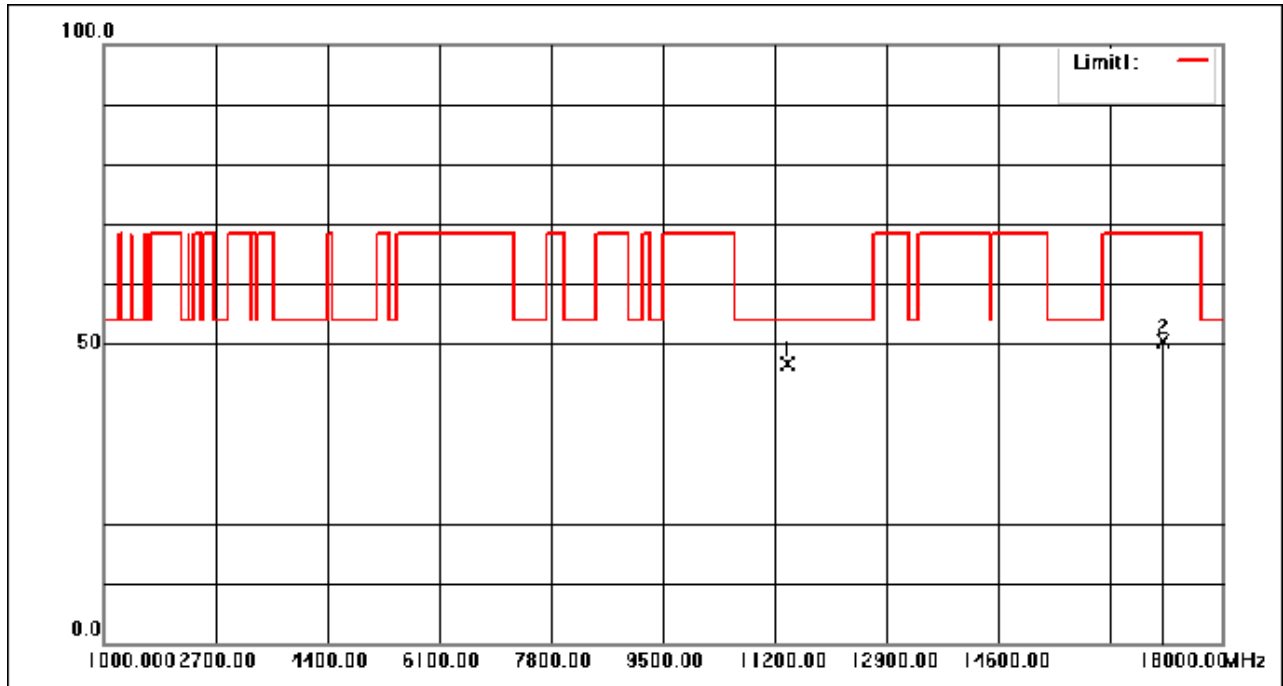
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No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	11400.000	48.76	-2.02	46.74	54.00	-7.26	peak
2	17100.000	50.37	-0.08	50.29	68.30	-18.01	peak



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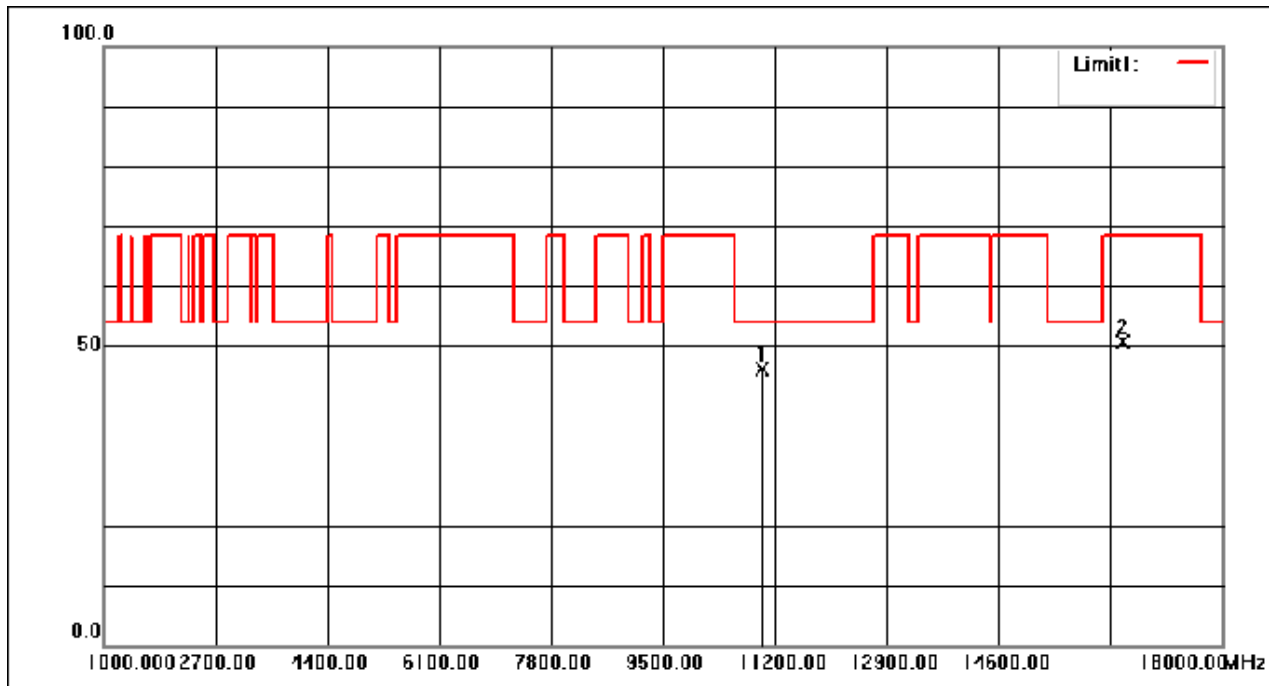
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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	47.23	-1.07	46.16	54.00	-7.84	peak
2	16500.000	50.40	0.28	50.68	68.30	-17.62	peak



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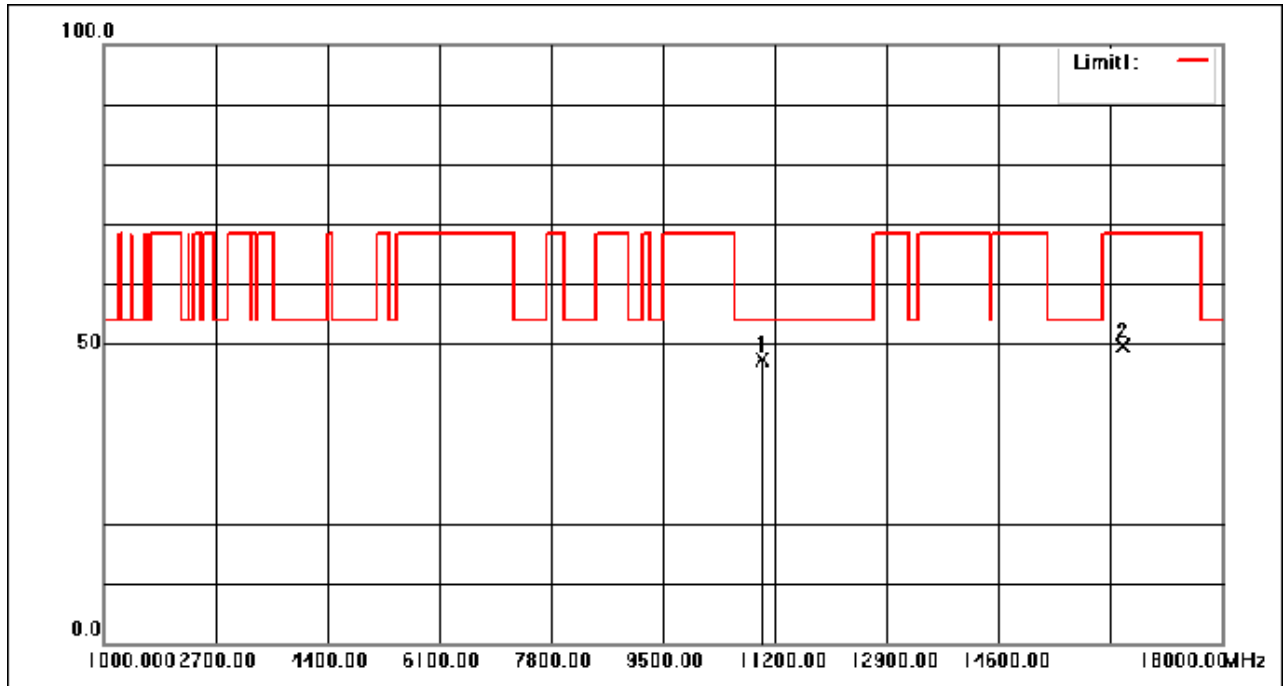
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	48.35	-1.07	47.28	54.00	-6.72	peak
2	16500.000	49.47	0.28	49.75	68.30	-18.55	peak



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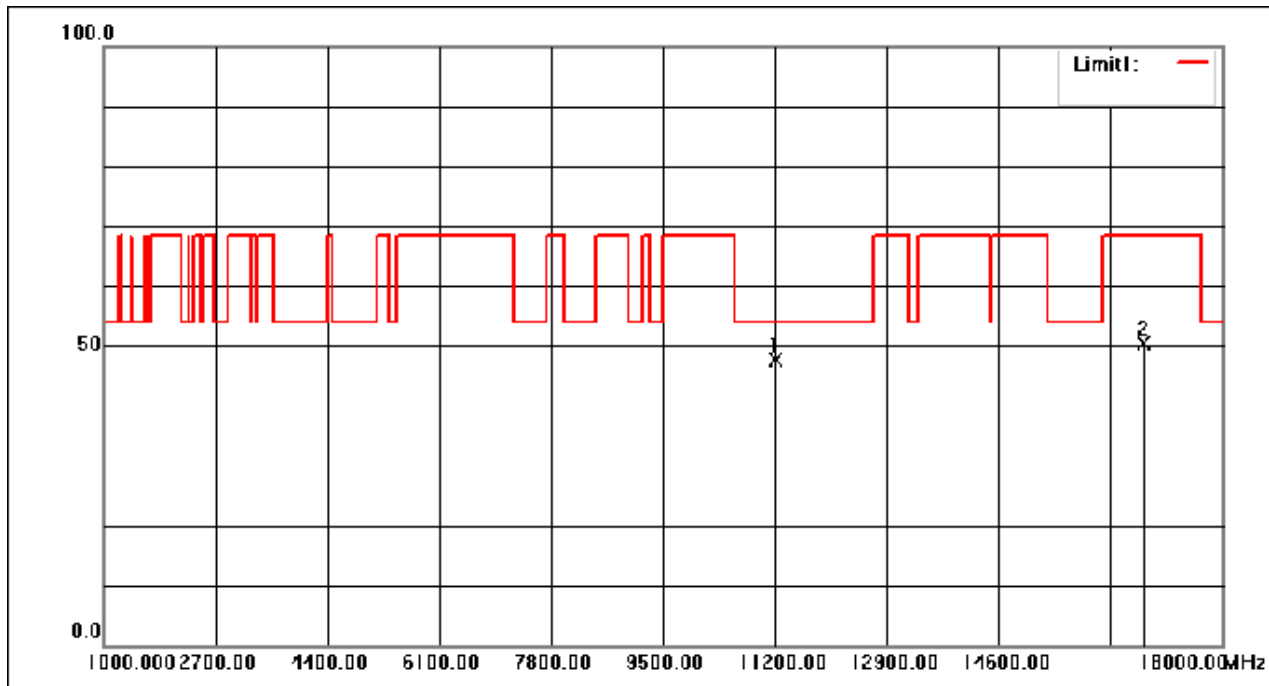
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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11200.000	49.17	-1.55	47.62	54.00	-6.38	peak
2	16800.000	50.26	0.11	50.37	68.30	-17.93	peak



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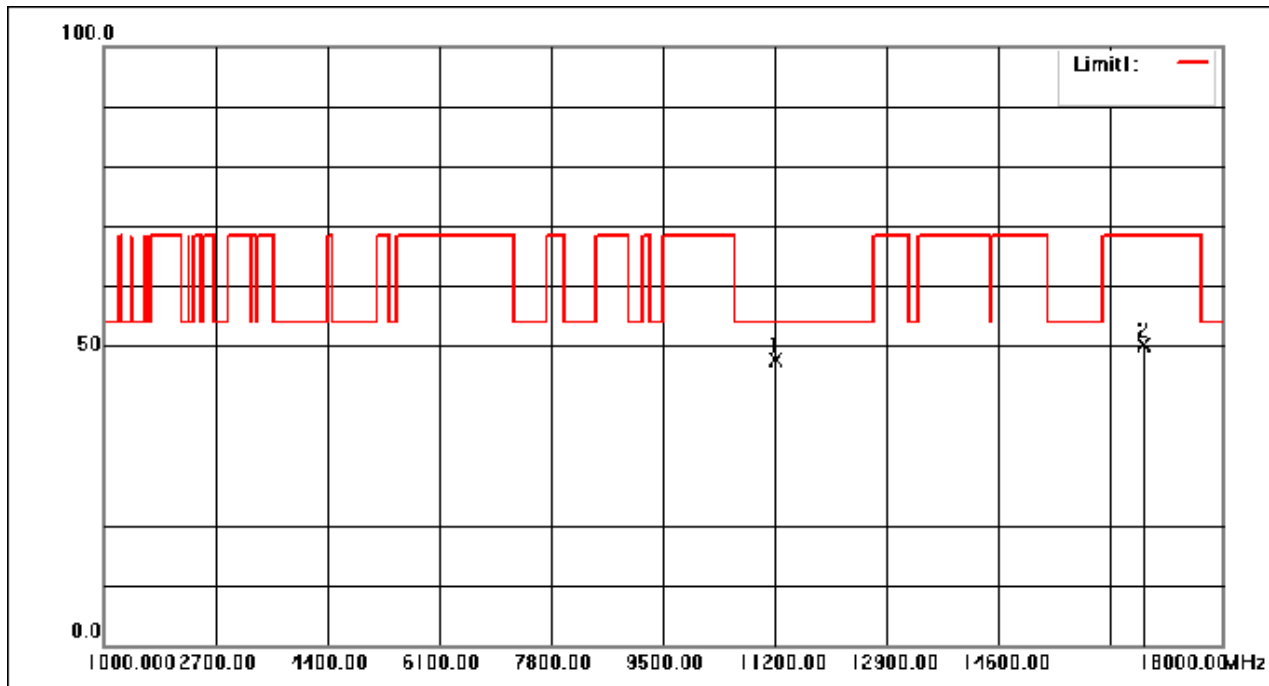
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11200.000	49.07	-1.55	47.52	54.00	-6.48	peak
2	16800.000	50.13	0.11	50.24	68.30	-18.06	peak



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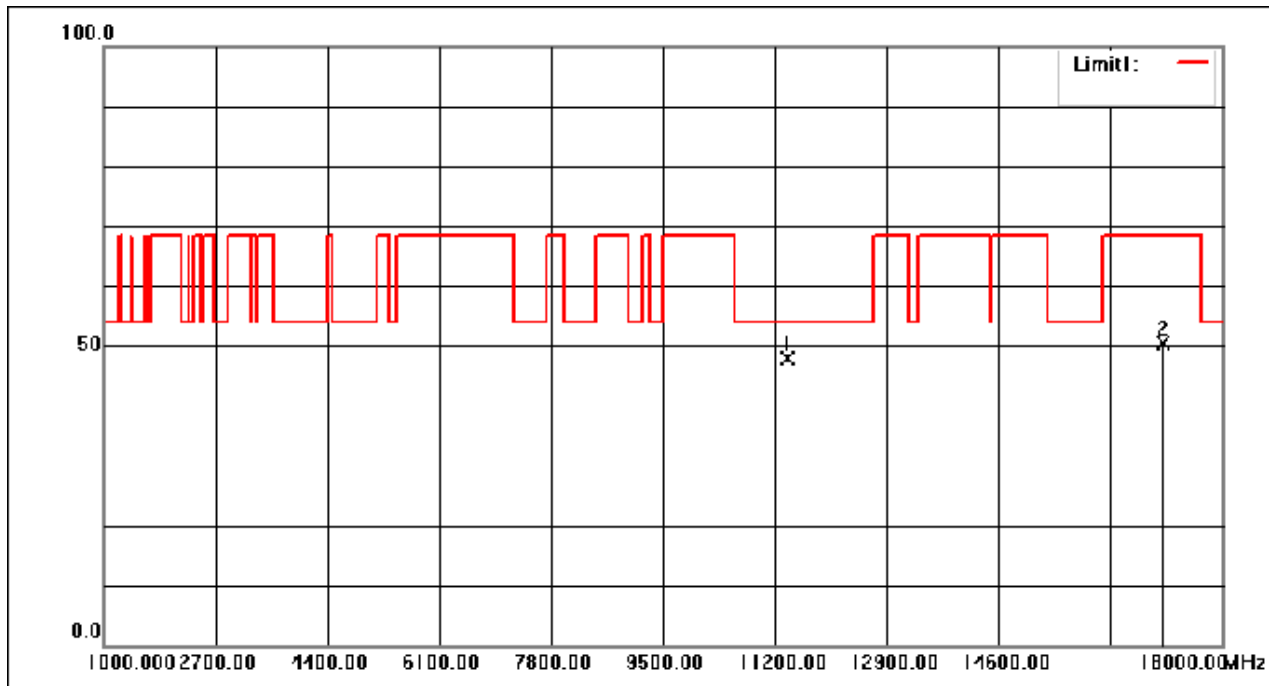
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	49.79	-2.02	47.77	54.00	-6.23	peak
2	17100.000	50.36	-0.08	50.28	68.30	-18.02	peak



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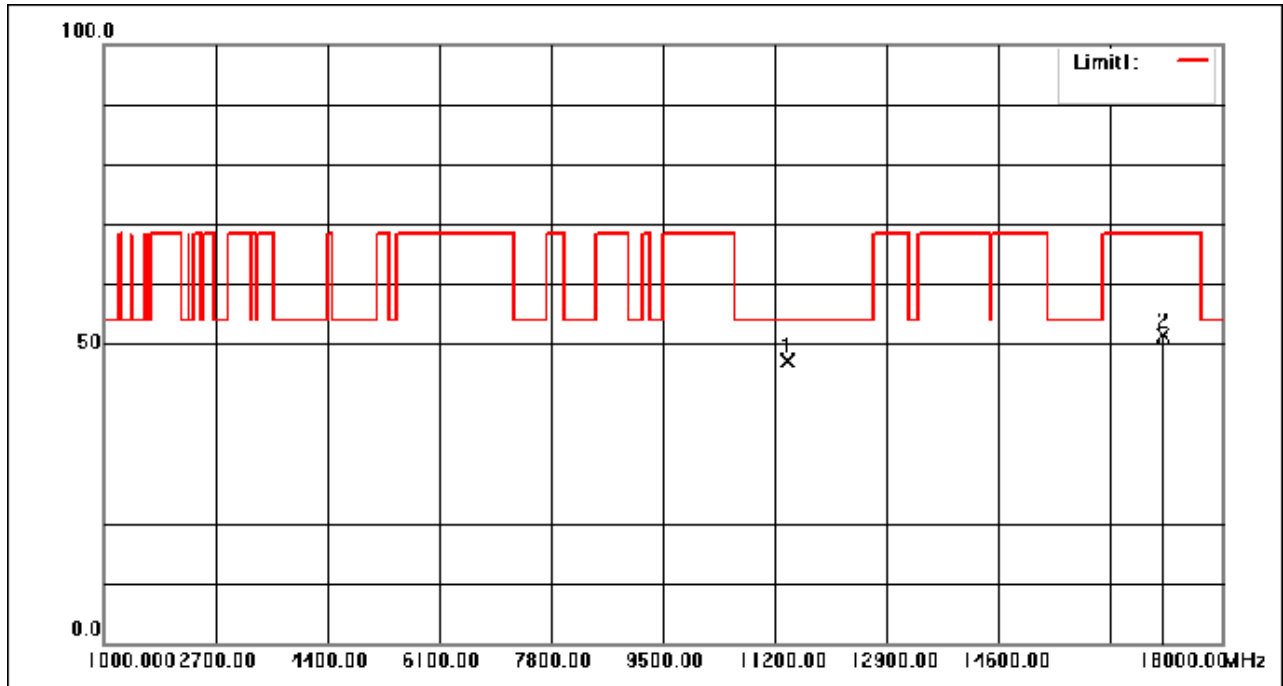
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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	49.03	-2.02	47.01	54.00	-6.99	peak
2	17100.000	51.54	-0.08	51.46	68.30	-16.84	peak



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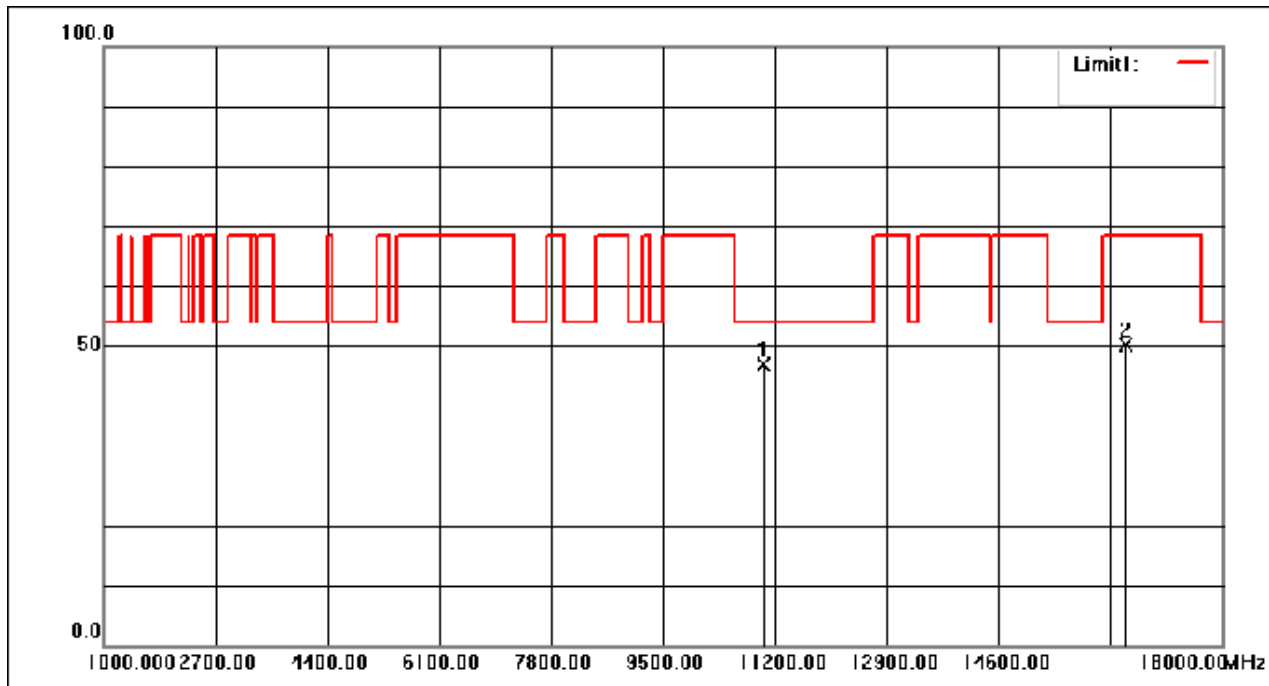
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11020.000	48.01	-1.12	46.89	54.00	-7.11	peak
2	16530.000	49.89	0.26	50.15	68.30	-18.15	peak



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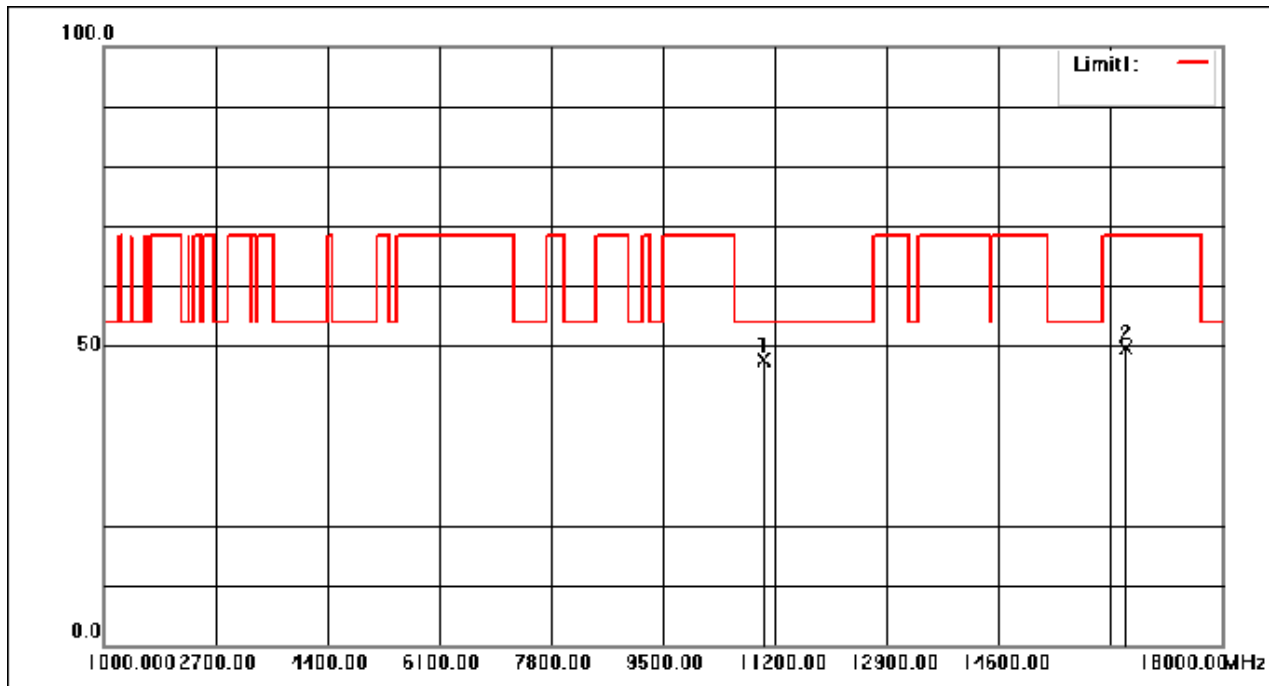
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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11020.000	48.64	-1.12	47.52	54.00	-6.48	peak
2	16530.000	49.31	0.26	49.57	68.30	-18.73	peak



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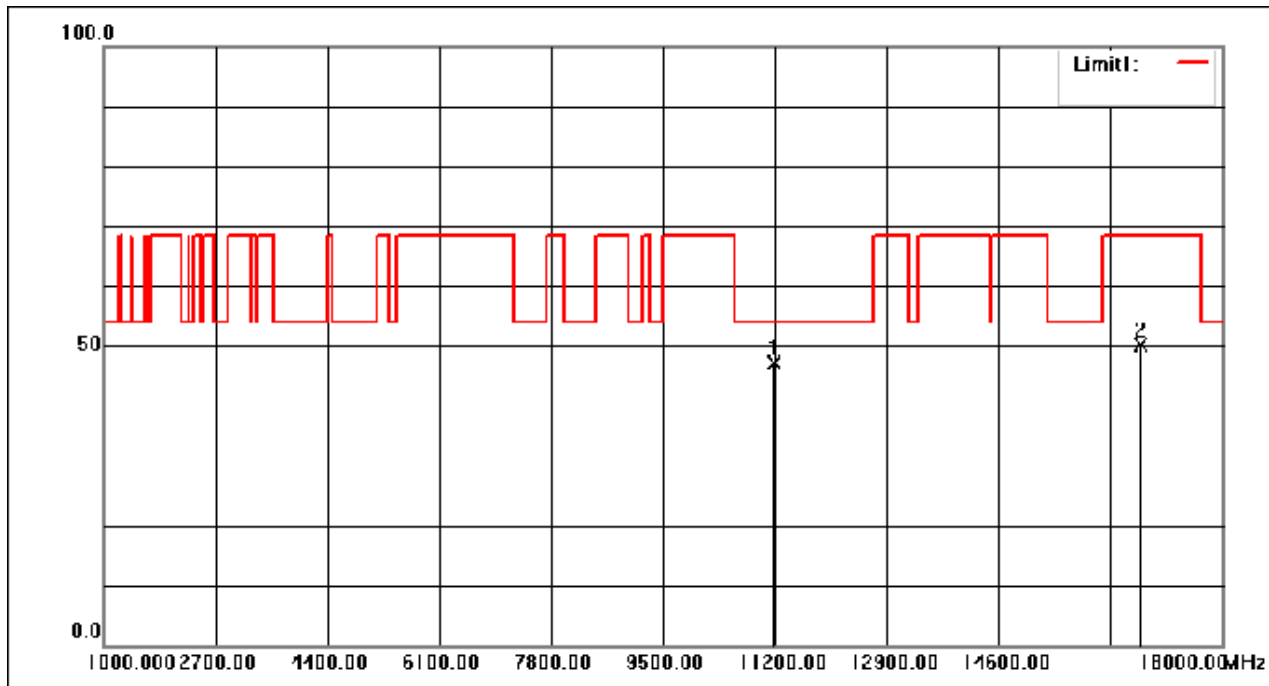
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11180.000	48.72	-1.50	47.22	54.00	-6.78	peak
2	16770.000	50.03	0.13	50.16	68.30	-18.14	peak



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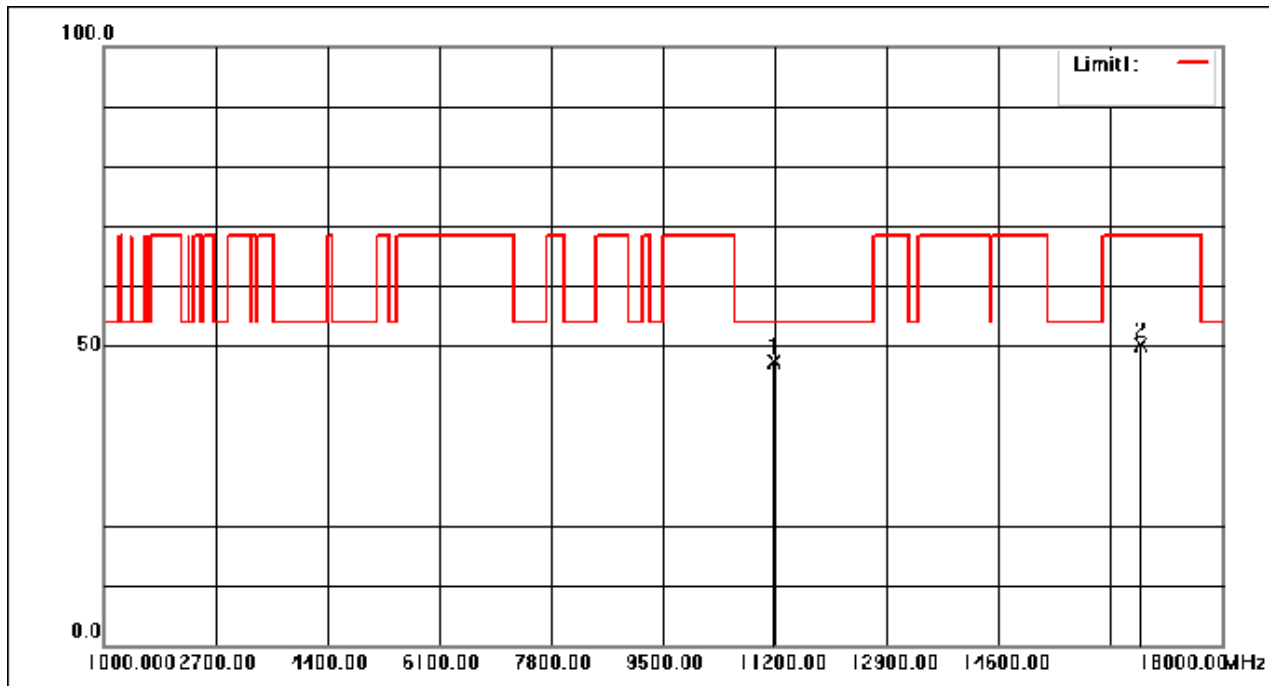
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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11180.000	48.96	-1.50	47.46	54.00	-6.54	peak
2	16770.000	49.94	0.13	50.07	68.30	-18.23	peak



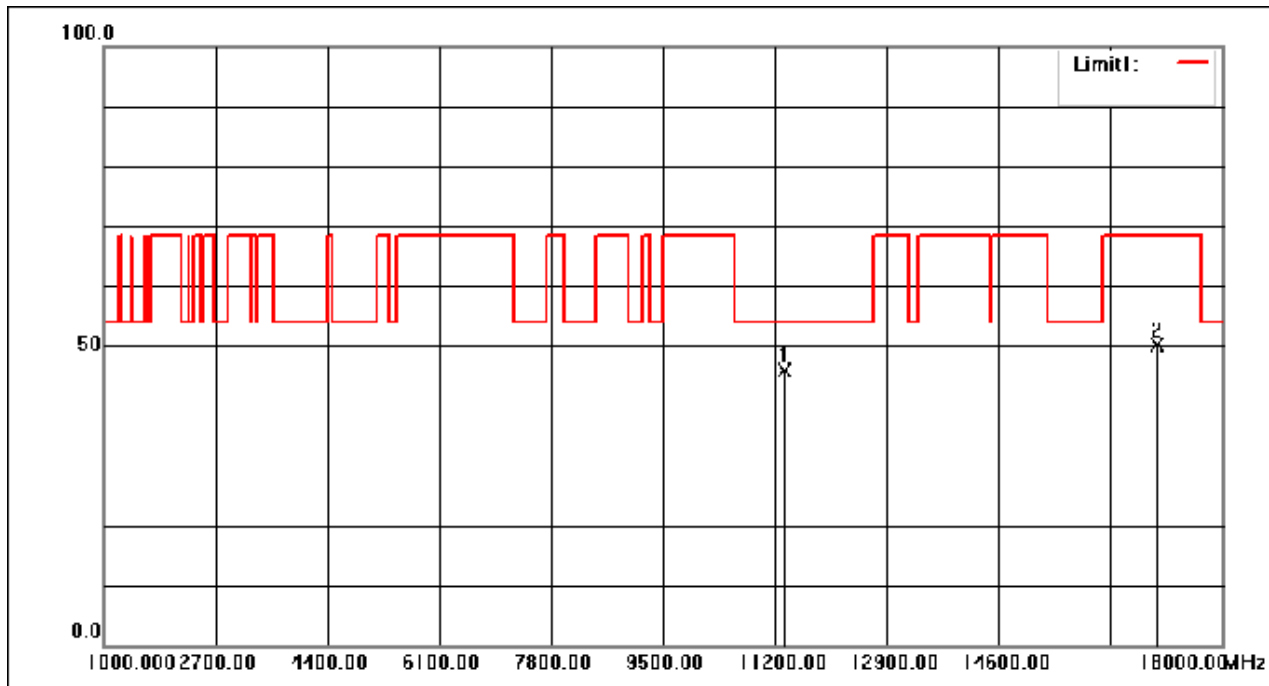
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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11340.000	47.72	-1.88	45.84	54.00	-8.16	peak
2	17010.000	50.22	-0.01	50.21	68.30	-18.09	peak



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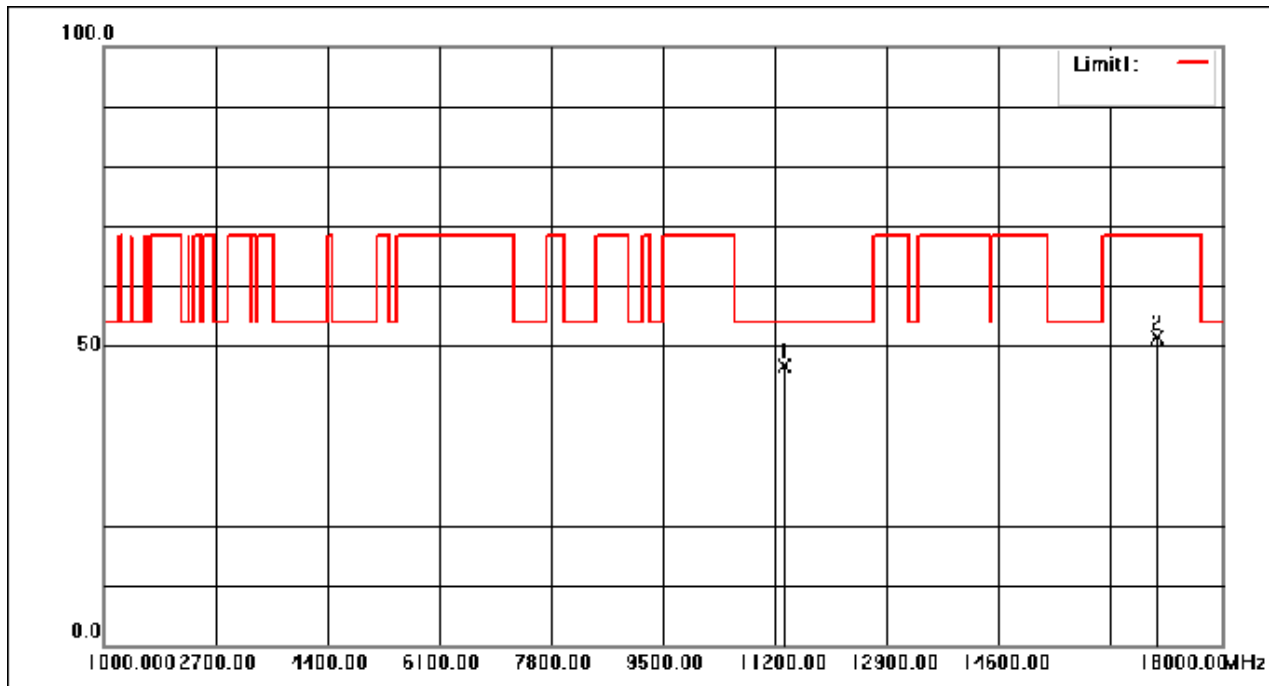
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11340.000	48.41	-1.88	46.53	54.00	-7.47	peak
2	17010.000	51.29	-0.01	51.28	68.30	-17.02	peak



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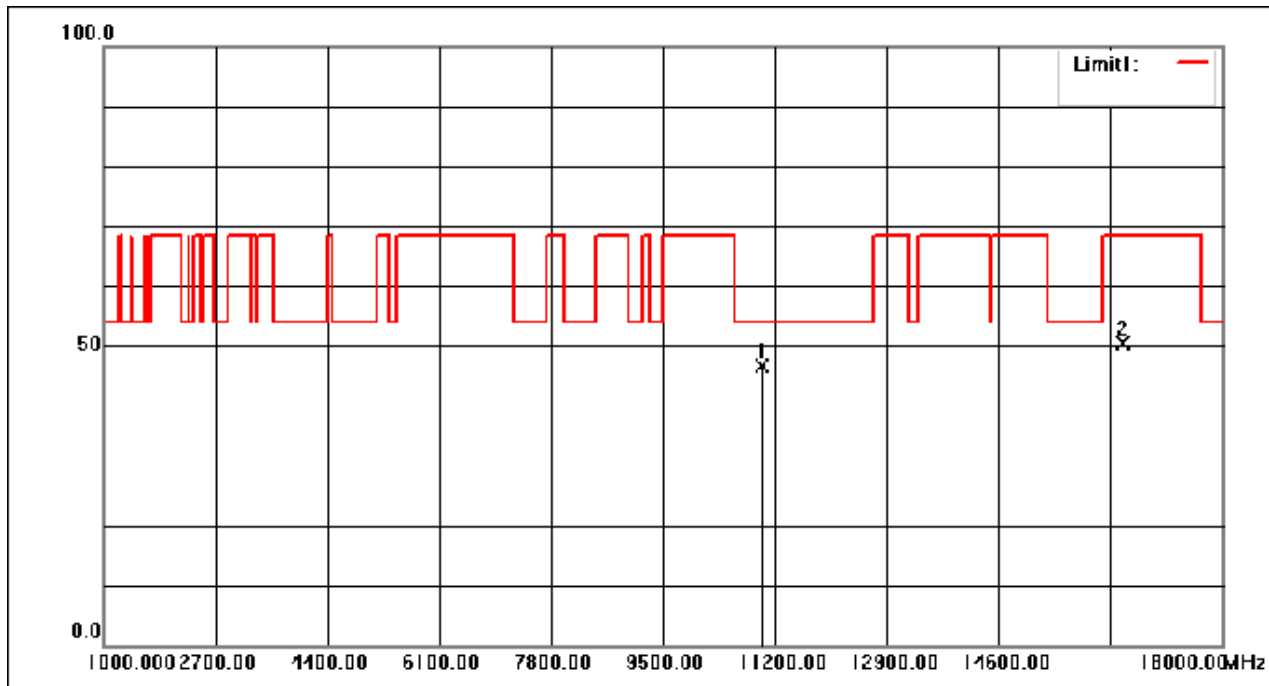
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	47.68	-1.07	46.61	54.00	-7.39	peak
2	16500.000	50.00	0.28	50.28	68.30	-18.02	peak



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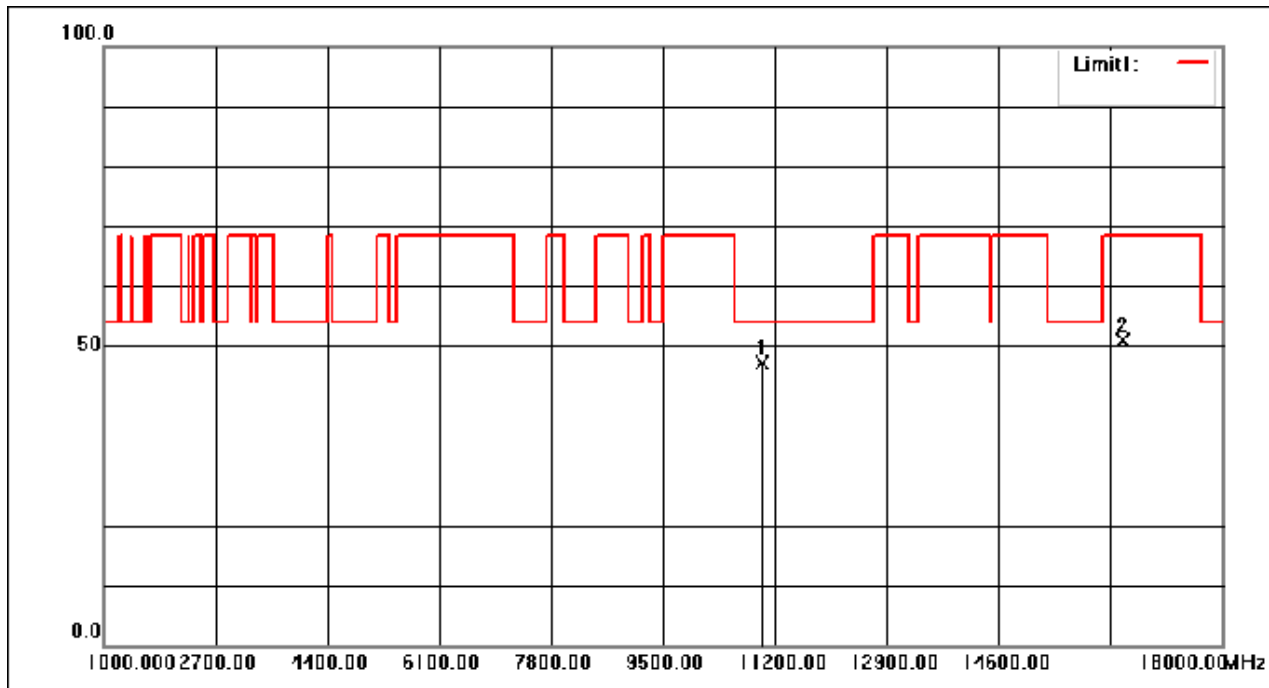
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	48.27	-1.07	47.20	54.00	-6.80	peak
2	16500.000	50.69	0.28	50.97	68.30	-17.33	peak



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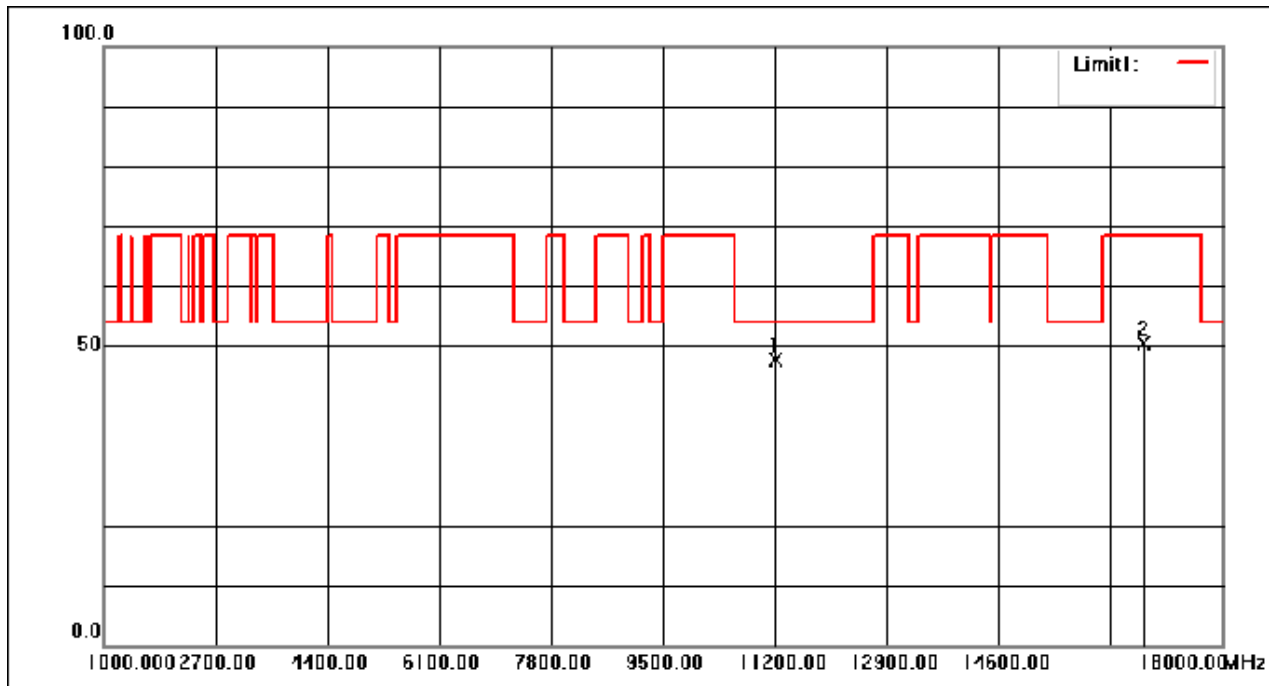
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No.	Frequency (MHz)	Reading (dB)	Correction factor()	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	11200.000	49.17	-1.55	47.62	54.00	-6.38	peak
2	16800.000	50.26	0.11	50.37	68.30	-17.93	peak



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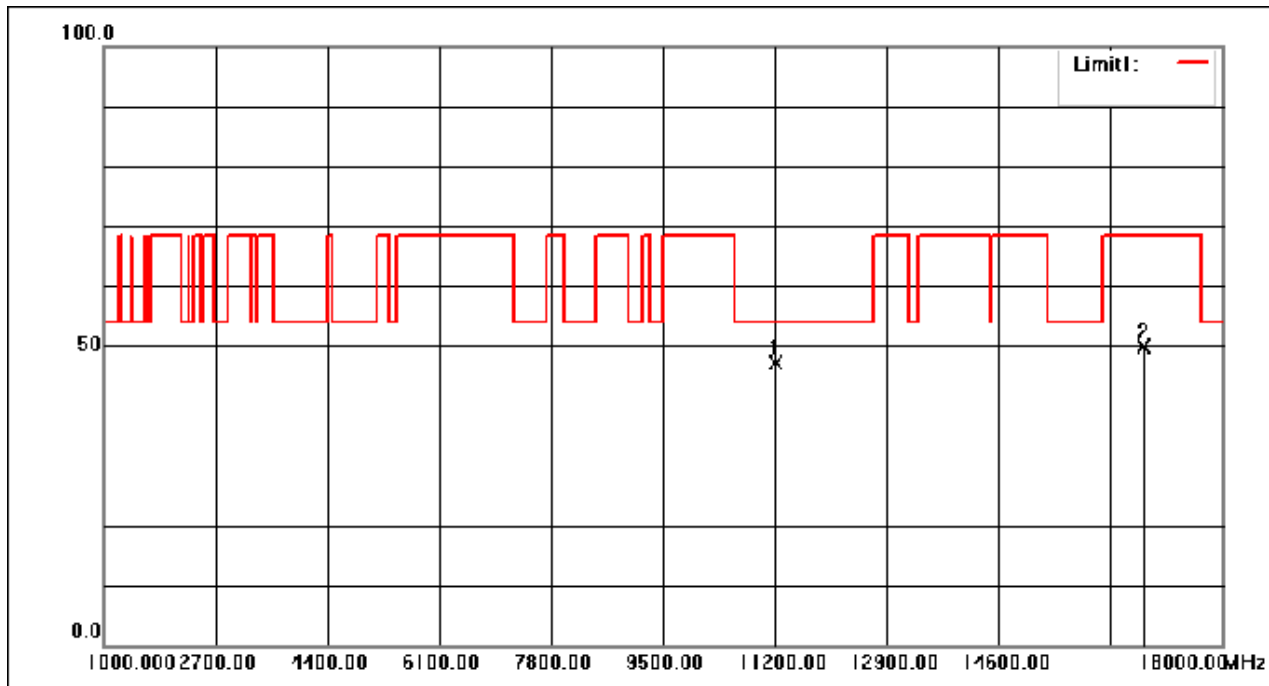
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11200.000	48.79	-1.55	47.24	54.00	-6.76	peak
2	16800.000	49.75	0.11	49.86	68.30	-18.44	peak



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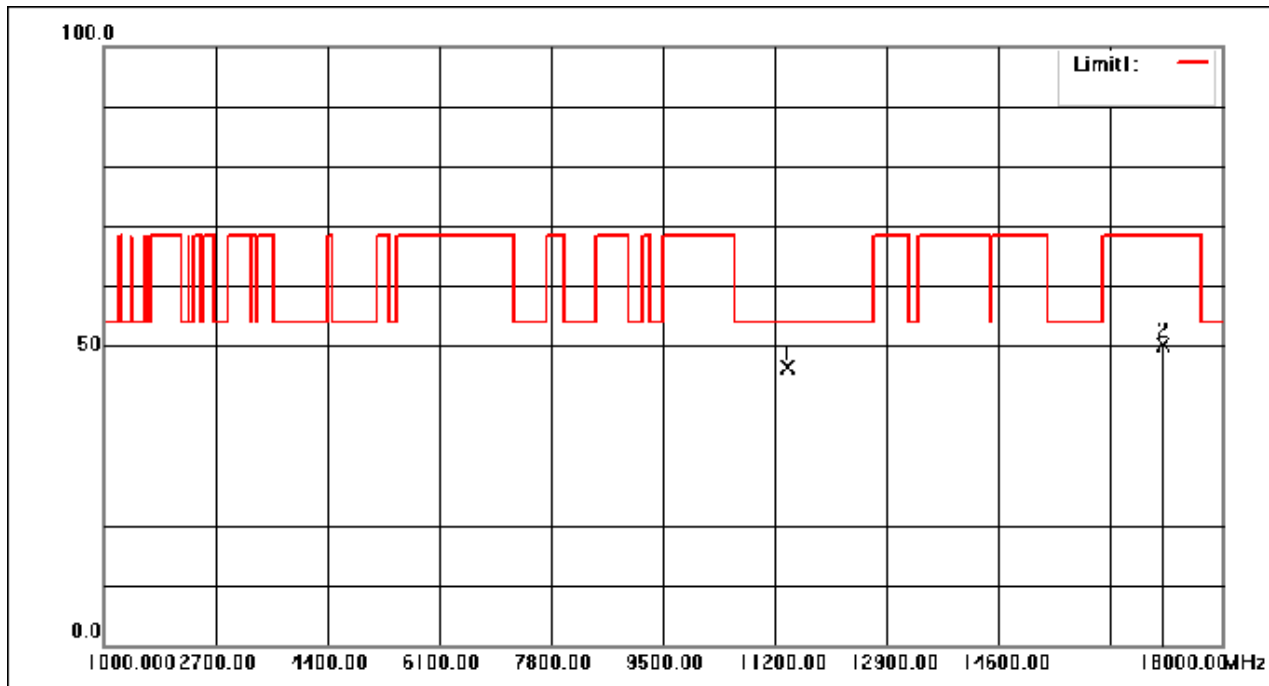
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	48.46	-2.02	46.44	54.00	-7.56	peak
2	17100.000	50.26	-0.08	50.18	68.30	-18.12	peak



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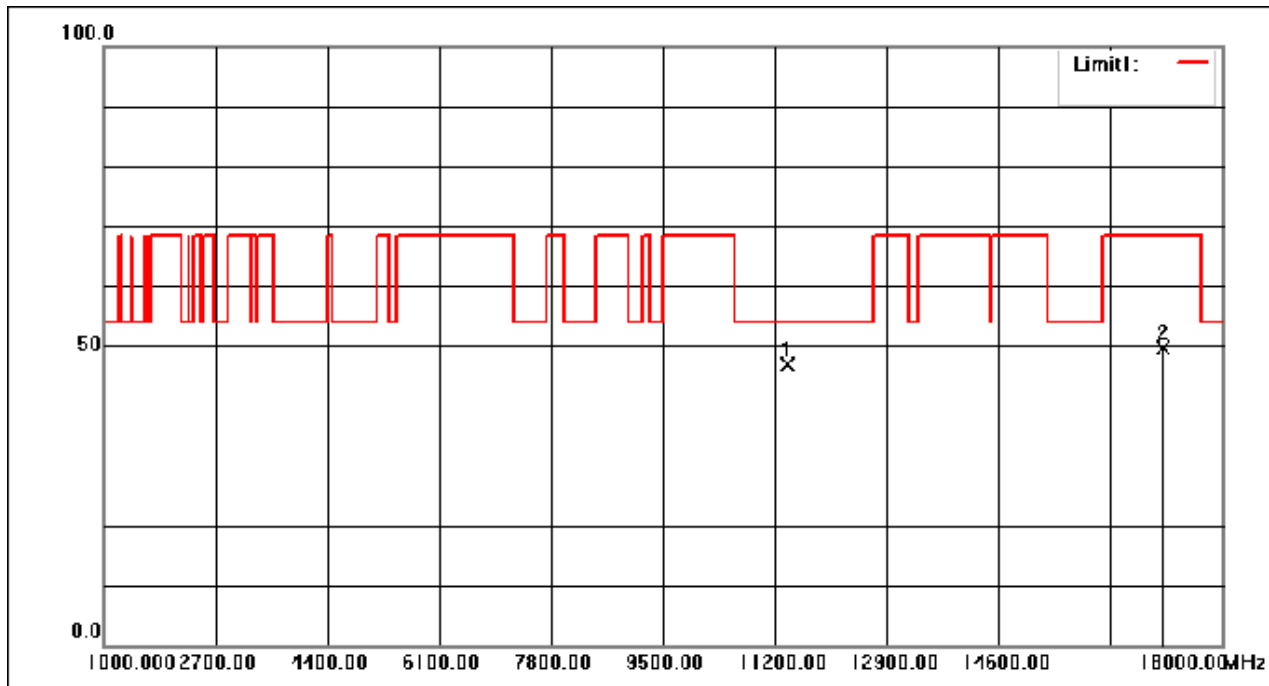
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	48.94	-2.02	46.92	54.00	-7.08	peak
2	17100.000	49.72	-0.08	49.64	68.30	-18.66	peak



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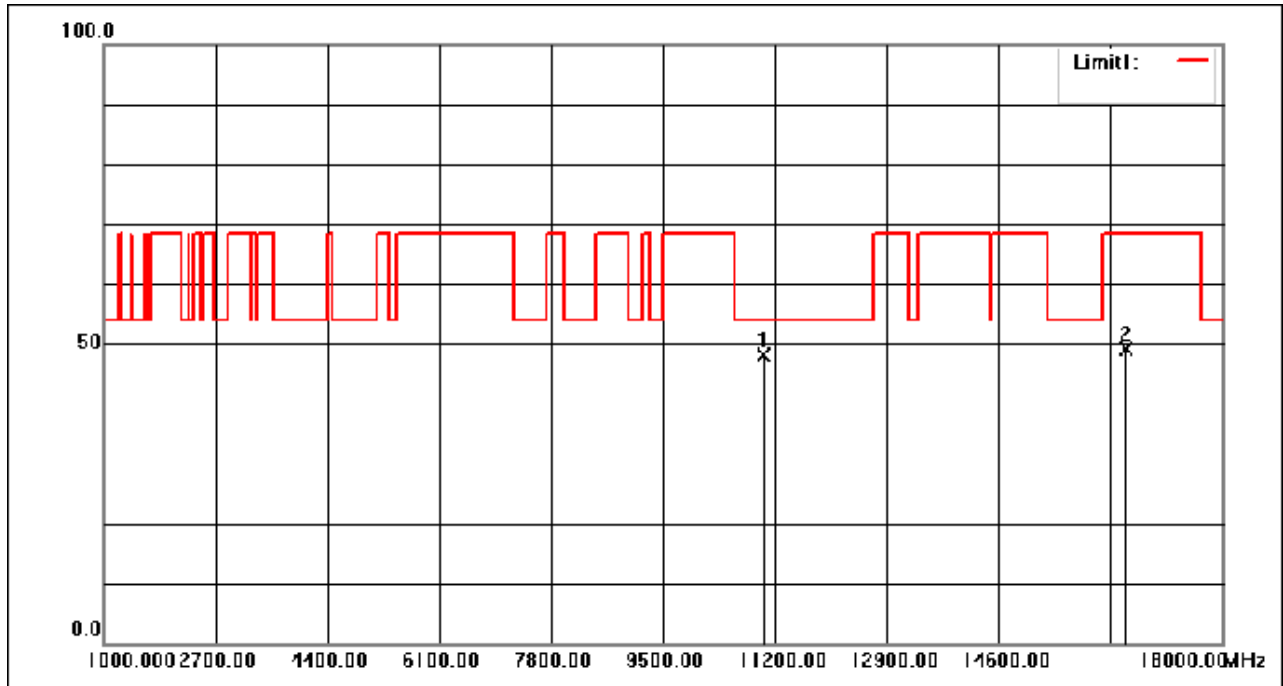
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11020.000	49.23	-1.12	48.11	54.00	-5.89	peak
2	16530.000	48.84	0.26	49.10	68.30	-19.20	peak



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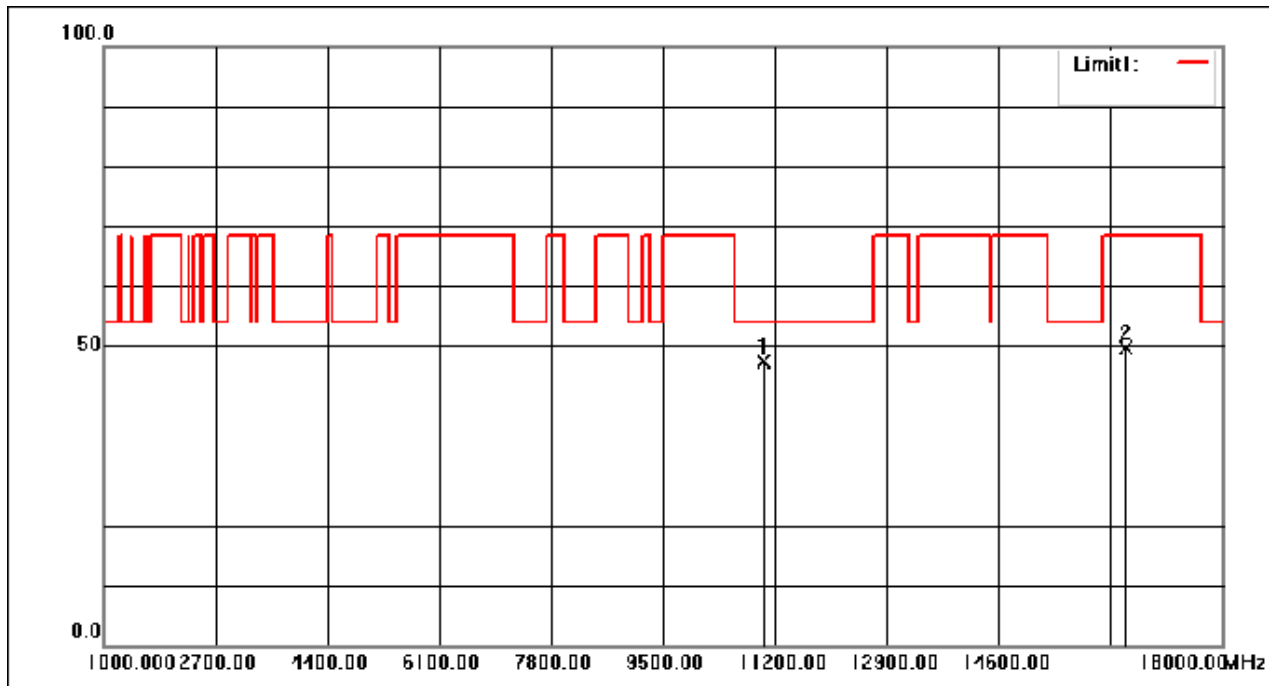
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11020.000	48.45	-1.12	47.33	54.00	-6.67	peak
2	16530.000	49.25	0.26	49.51	68.30	-18.79	peak



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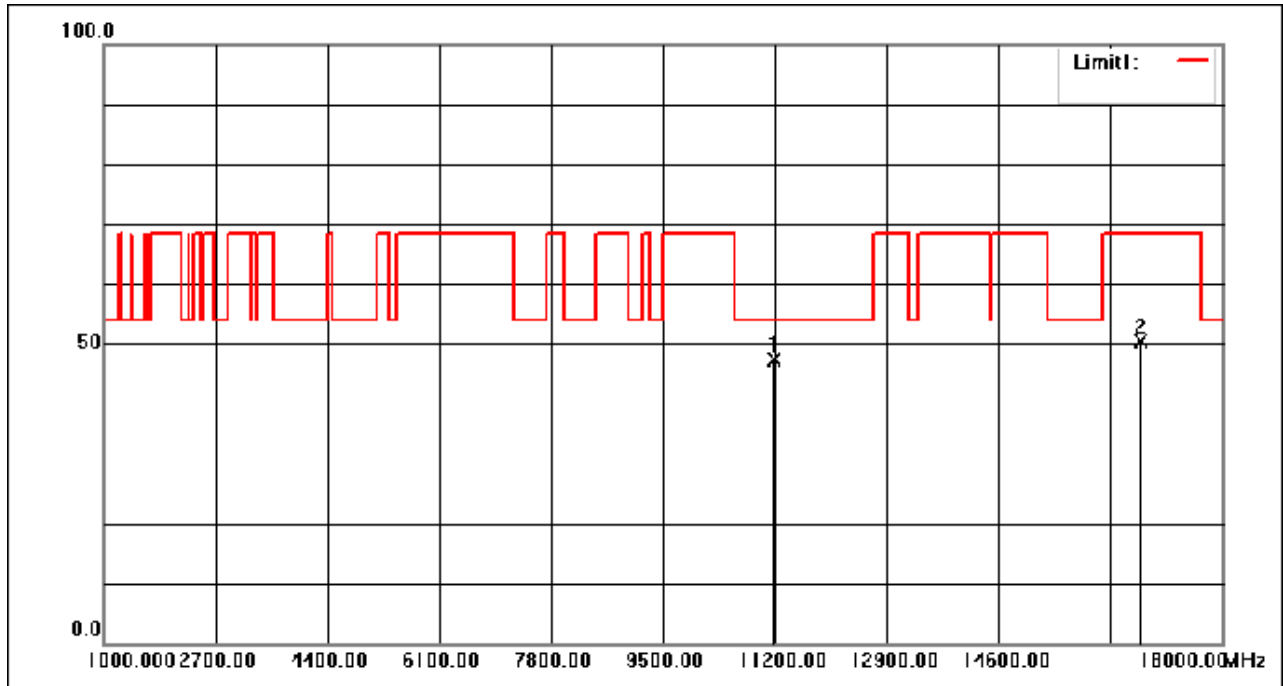
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11180.000	48.97	-1.50	47.47	54.00	-6.53	peak
2	16770.000	50.14	0.13	50.27	68.30	-18.03	peak



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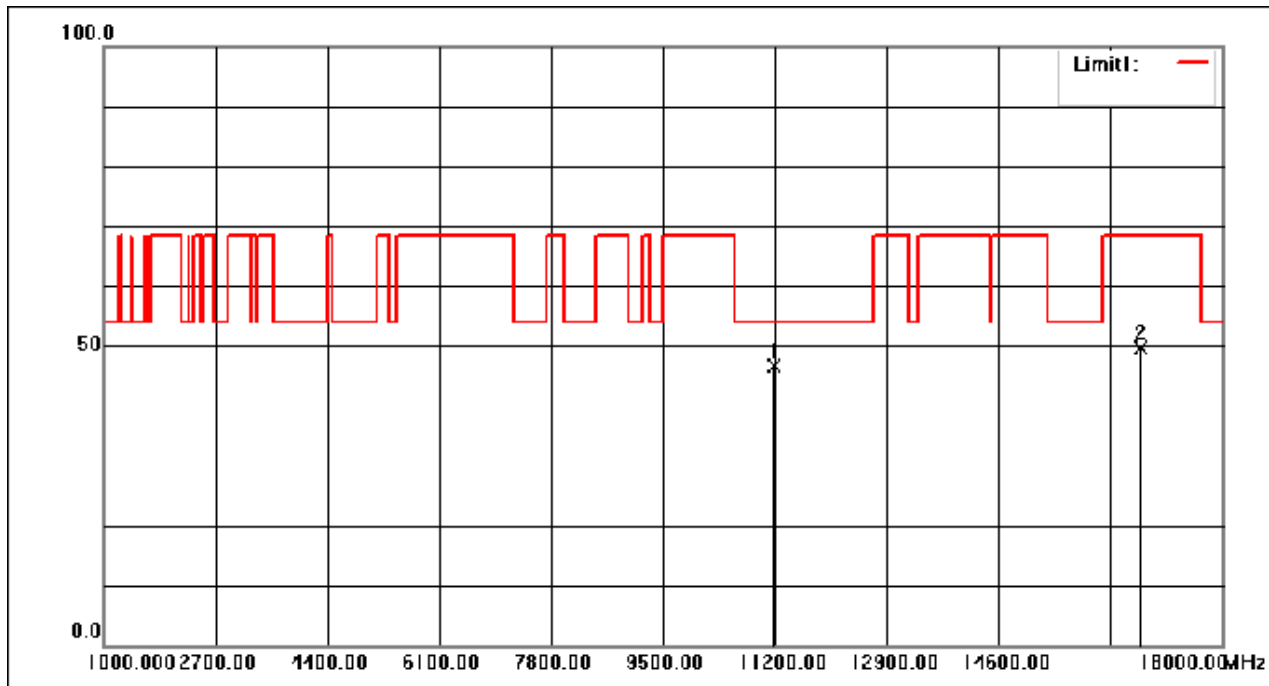
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Mode:f; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11180.000	48.15	-1.50	46.65	54.00	-7.35	peak
2	16770.000	49.56	0.13	49.69	68.30	-18.61	peak



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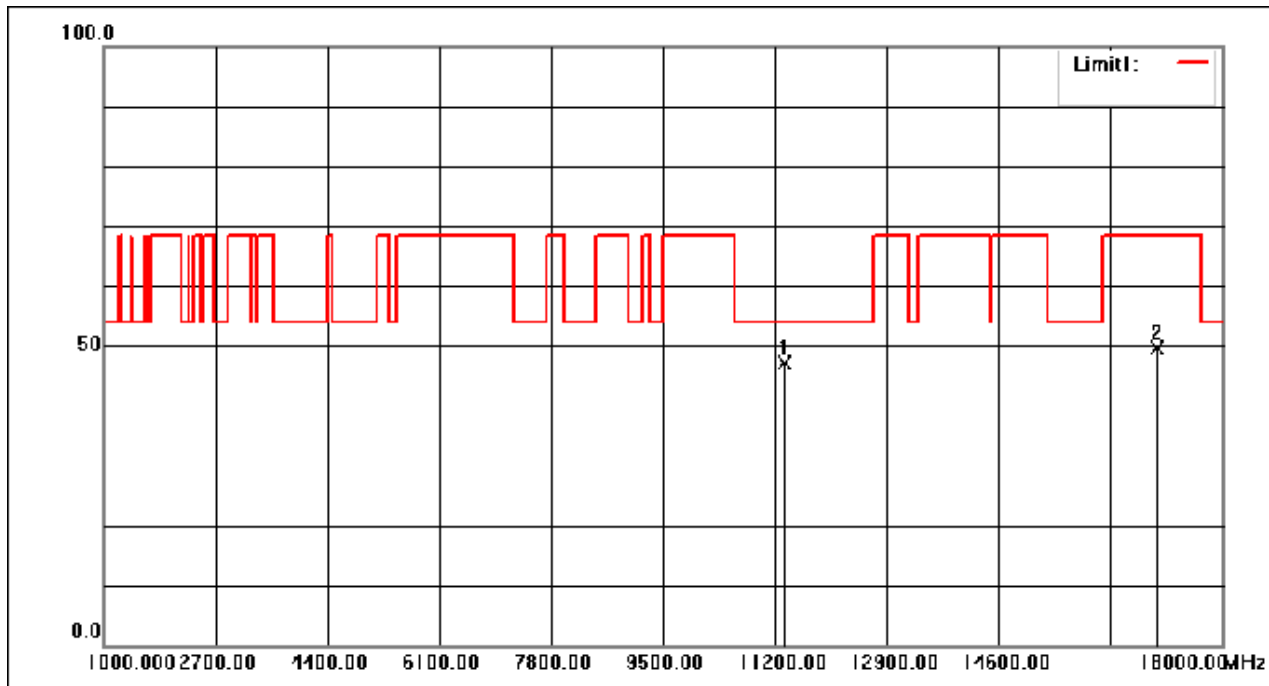
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Mode:f; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11340.000	48.90	-1.88	47.02	54.00	-6.98	peak
2	17010.000	49.61	-0.01	49.60	68.30	-18.70	peak



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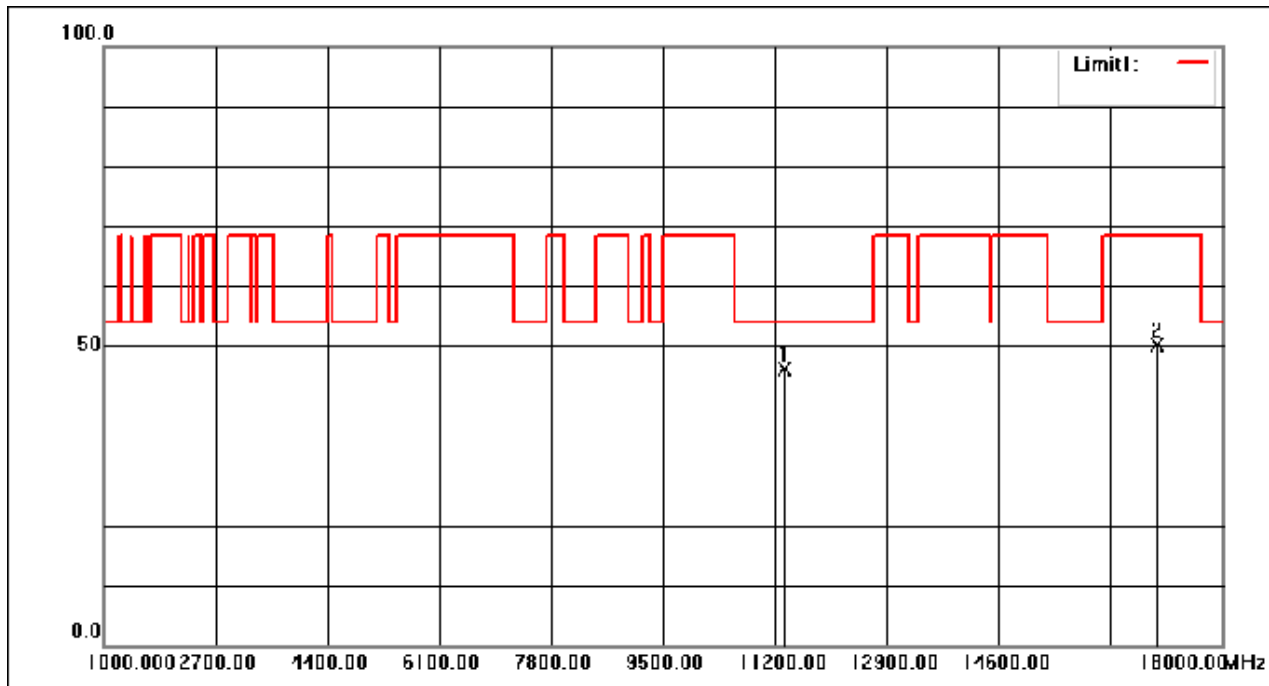
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Mode:f; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11340.000	48.08	-1.88	46.20	54.00	-7.80	peak
2	17010.000	50.12	-0.01	50.11	68.30	-18.19	peak



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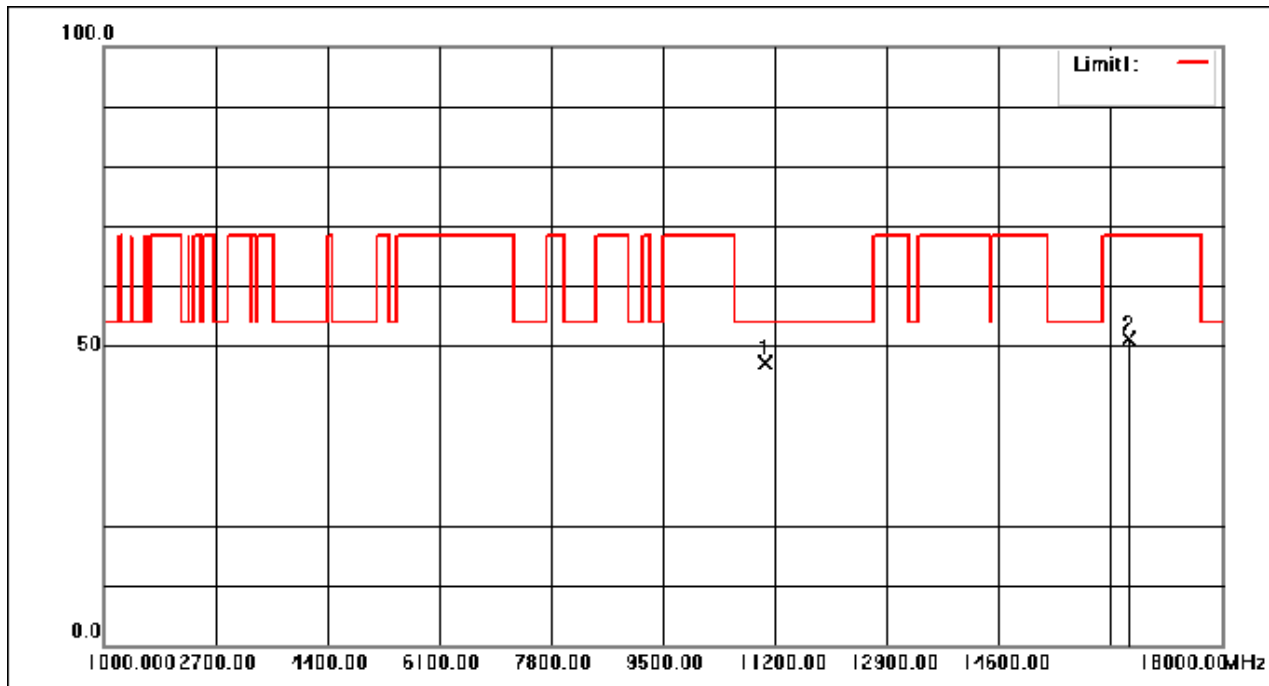
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Mode:f; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11060.000	48.42	-1.21	47.21	54.00	-6.79	peak
2	16590.000	51.01	0.23	51.24	68.30	-17.06	peak



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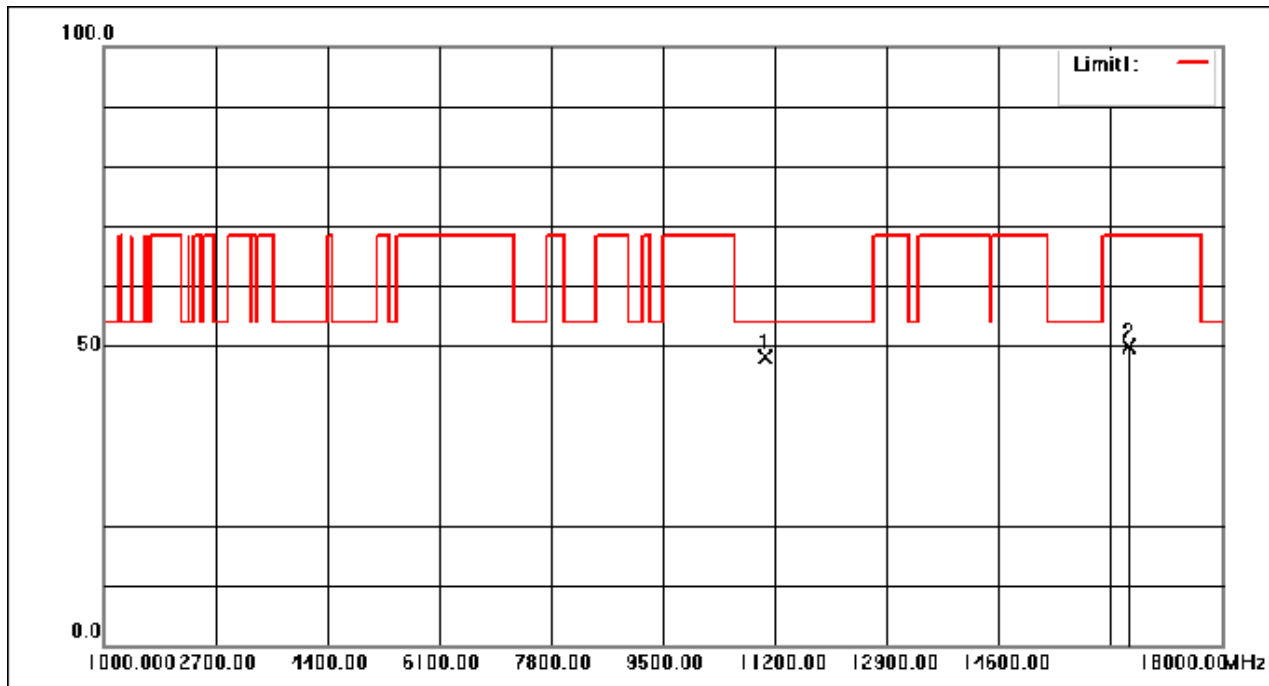
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11060.000	49.45	-1.21	48.24	54.00	-5.76	peak
2	16590.000	49.59	0.23	49.82	68.30	-18.48	peak



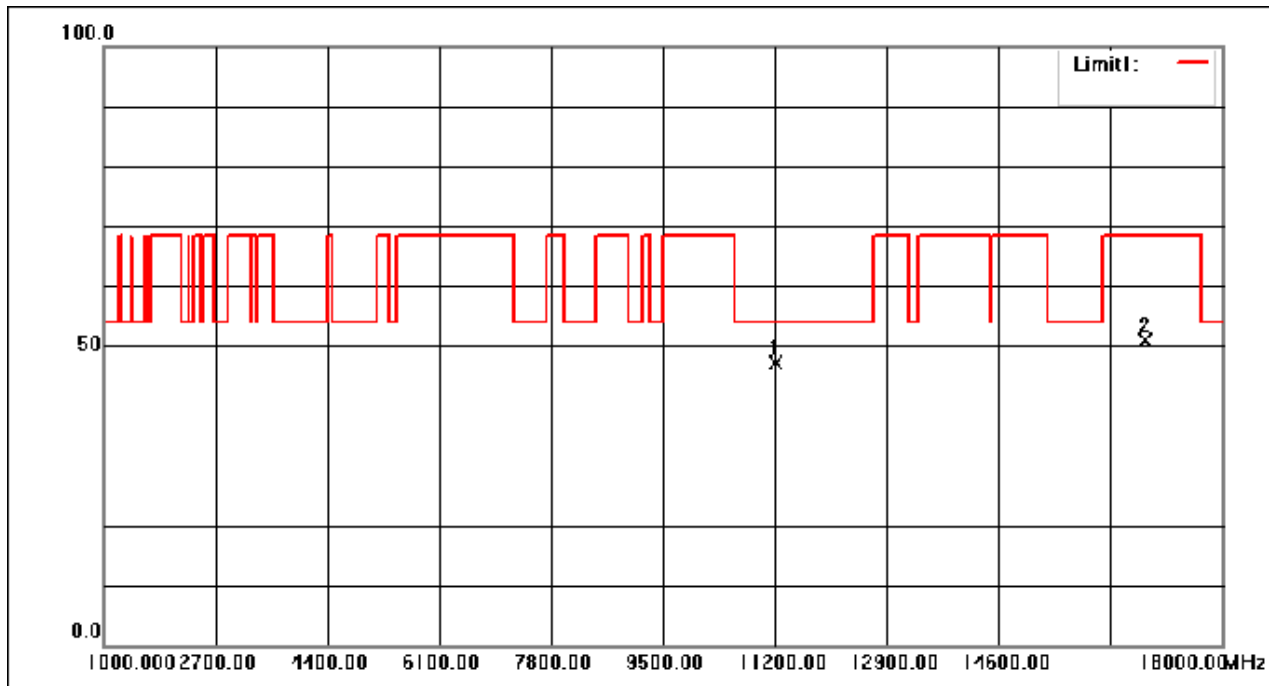
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Mode:f; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11220.000	48.77	-1.59	47.18	54.00	-6.82	peak
2	16830.000	50.79	0.10	50.89	68.30	-17.41	peak



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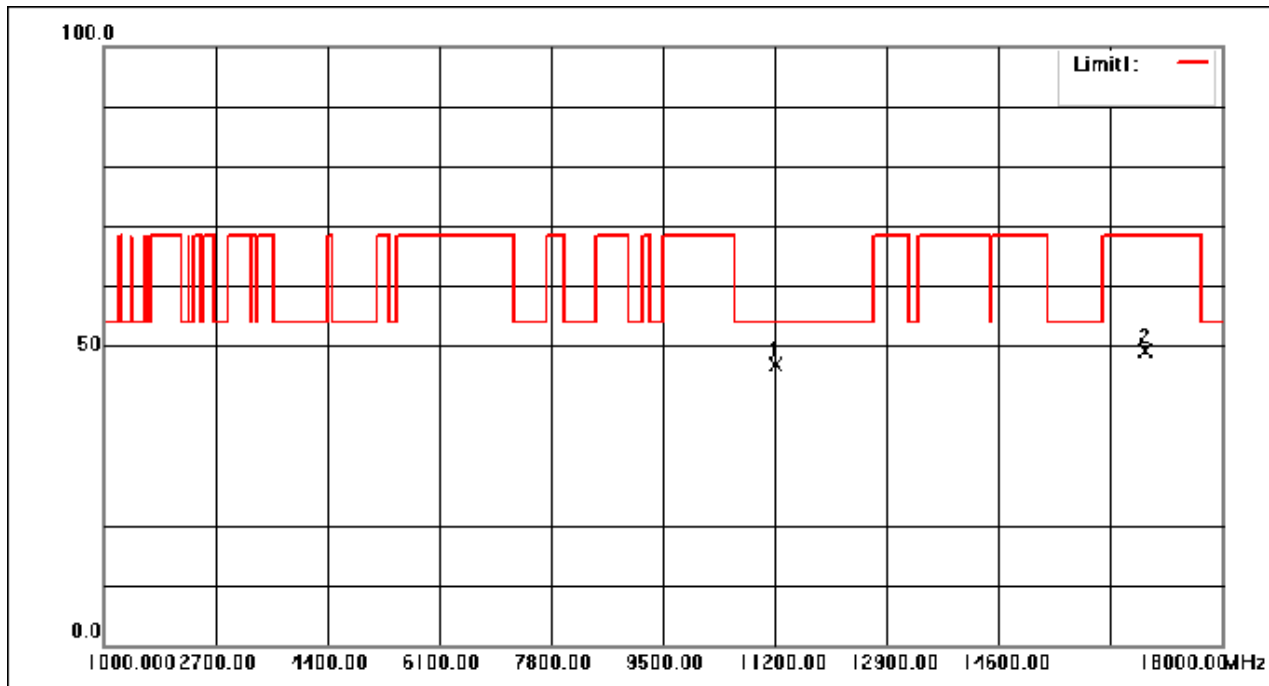
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Mode:f; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11220.000	48.36	-1.59	46.77	54.00	-7.23	peak
2	16830.000	49.12	0.10	49.22	68.30	-19.08	peak



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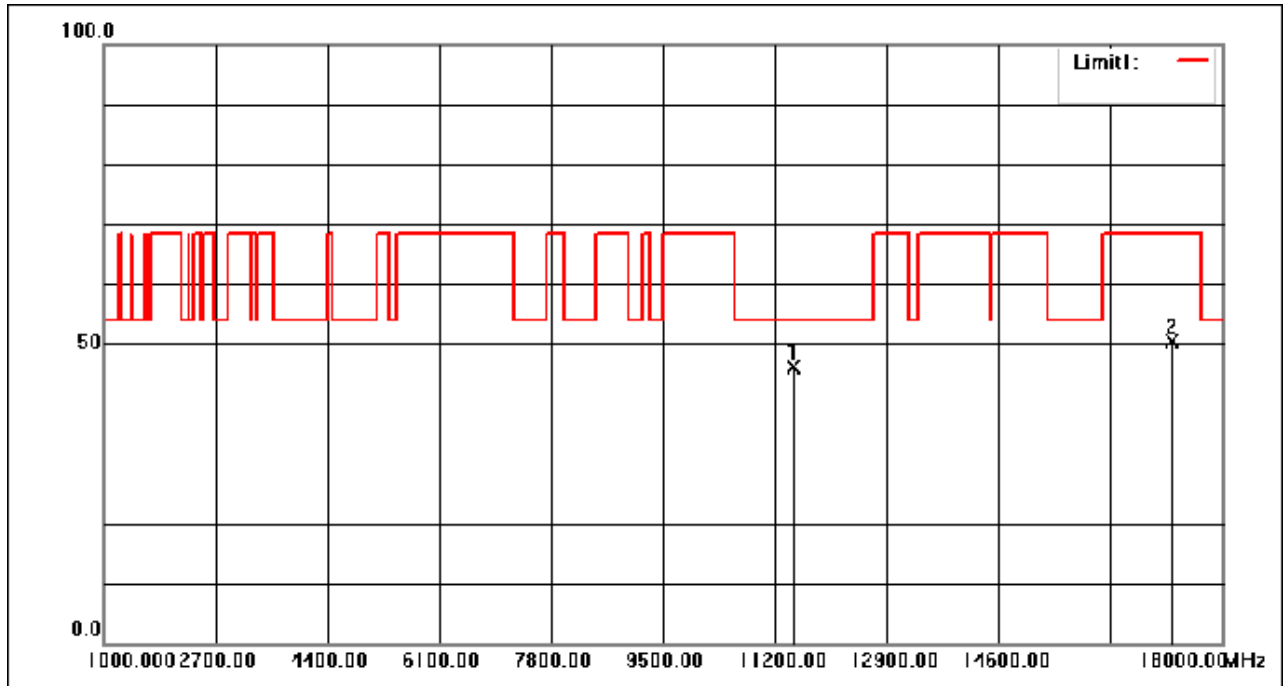
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Mode:g; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11490.000	48.34	-2.24	46.10	54.00	-7.90	peak
2	17235.000	50.54	-0.19	50.35	68.30	-17.95	peak



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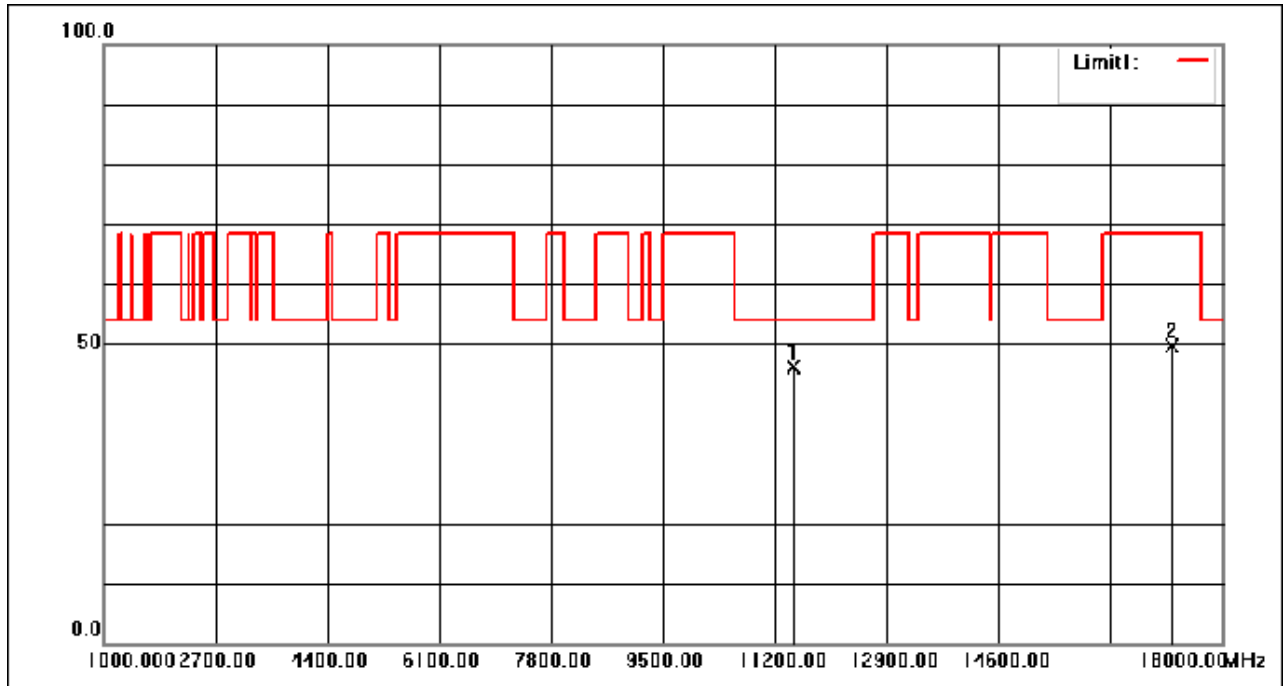
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Mode:g; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11490.000	48.44	-2.24	46.20	54.00	-7.80	peak
2	17235.000	49.75	-0.19	49.56	68.30	-18.74	peak



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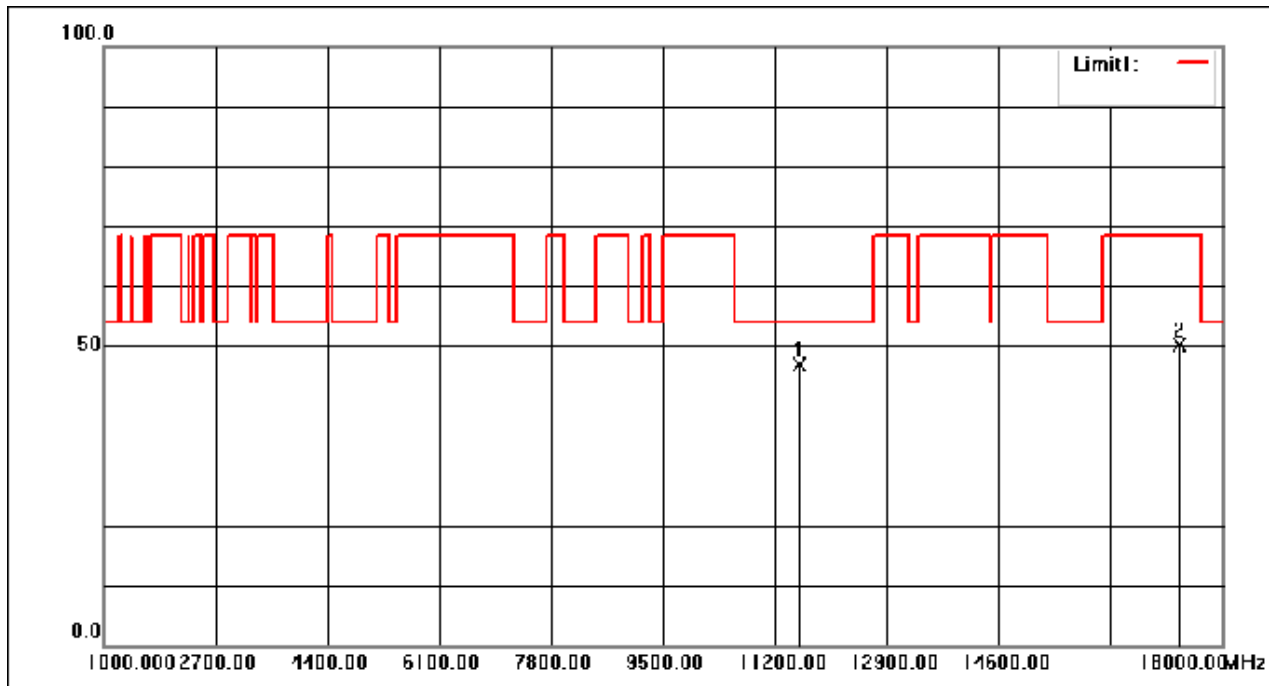
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Mode:g; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	49.16	-2.33	46.83	54.00	-7.17	peak
2	17355.000	50.52	-0.29	50.23	68.30	-18.07	peak



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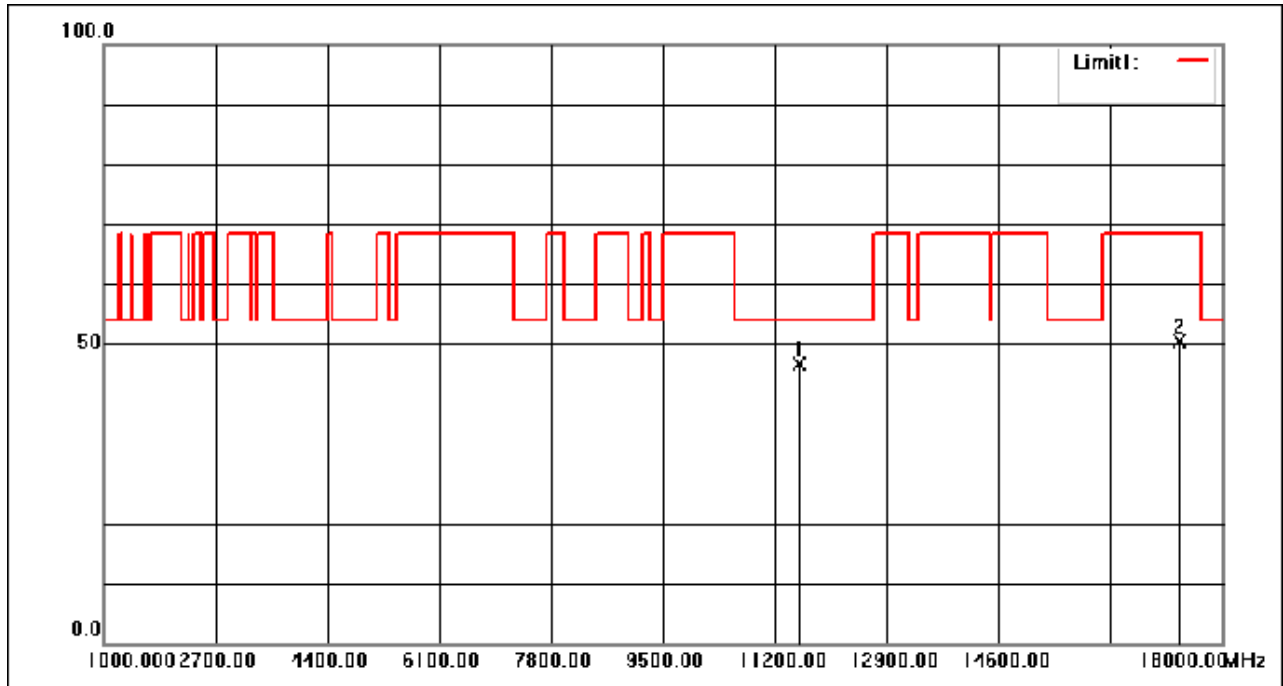
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Mode:g; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	49.07	-2.33	46.74	54.00	-7.26	peak
2	17355.000	50.75	-0.29	50.46	68.30	-17.84	peak



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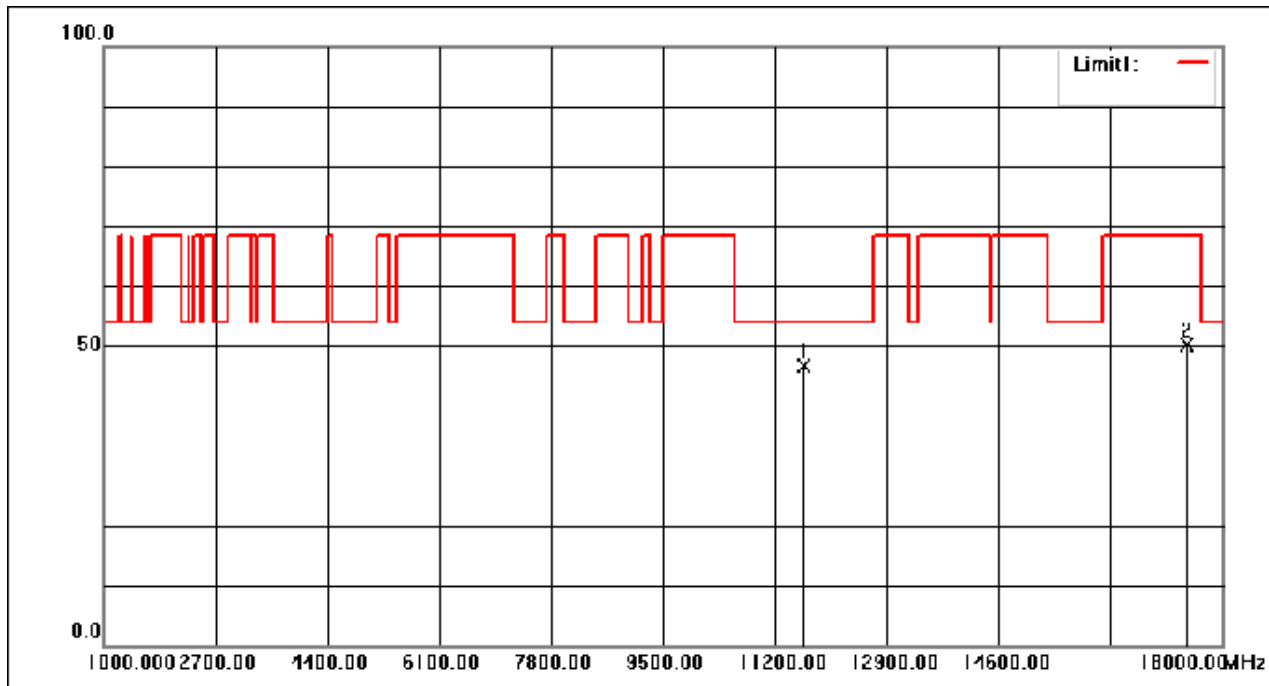
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Mode:g; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	48.93	-2.40	46.53	54.00	-7.47	peak
2	17475.000	50.55	-0.39	50.16	68.30	-18.14	peak



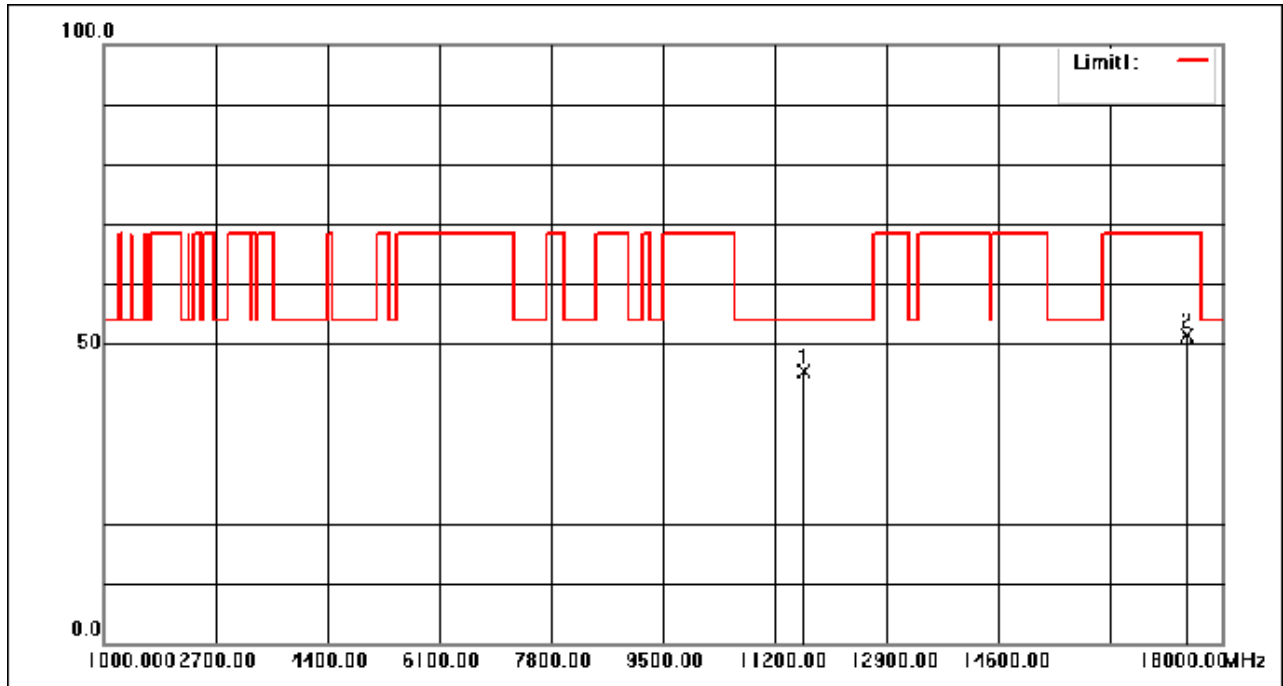


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Mode:g; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	47.80	-2.40	45.40	54.00	-8.60	peak
2	17475.000	51.65	-0.39	51.26	68.30	-17.04	peak



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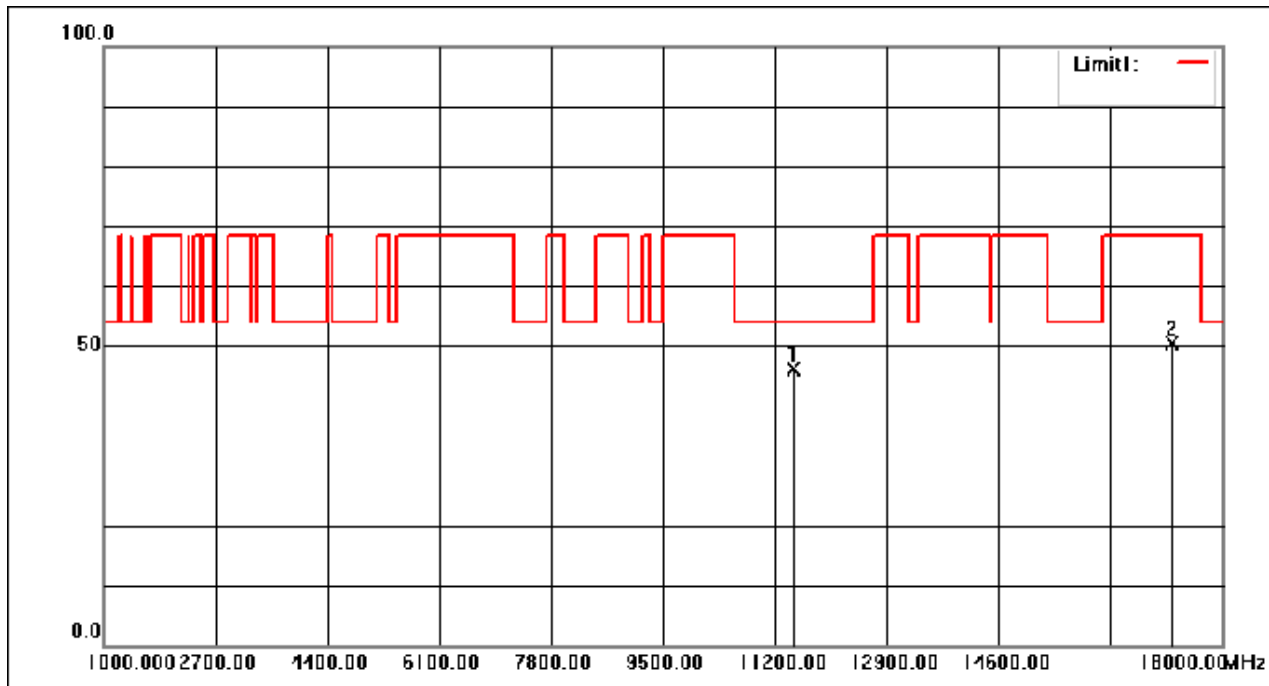
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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11490.000	48.34	-2.24	46.10	54.00	-7.90	peak
2	17235.000	50.54	-0.19	50.35	68.30	-17.95	peak



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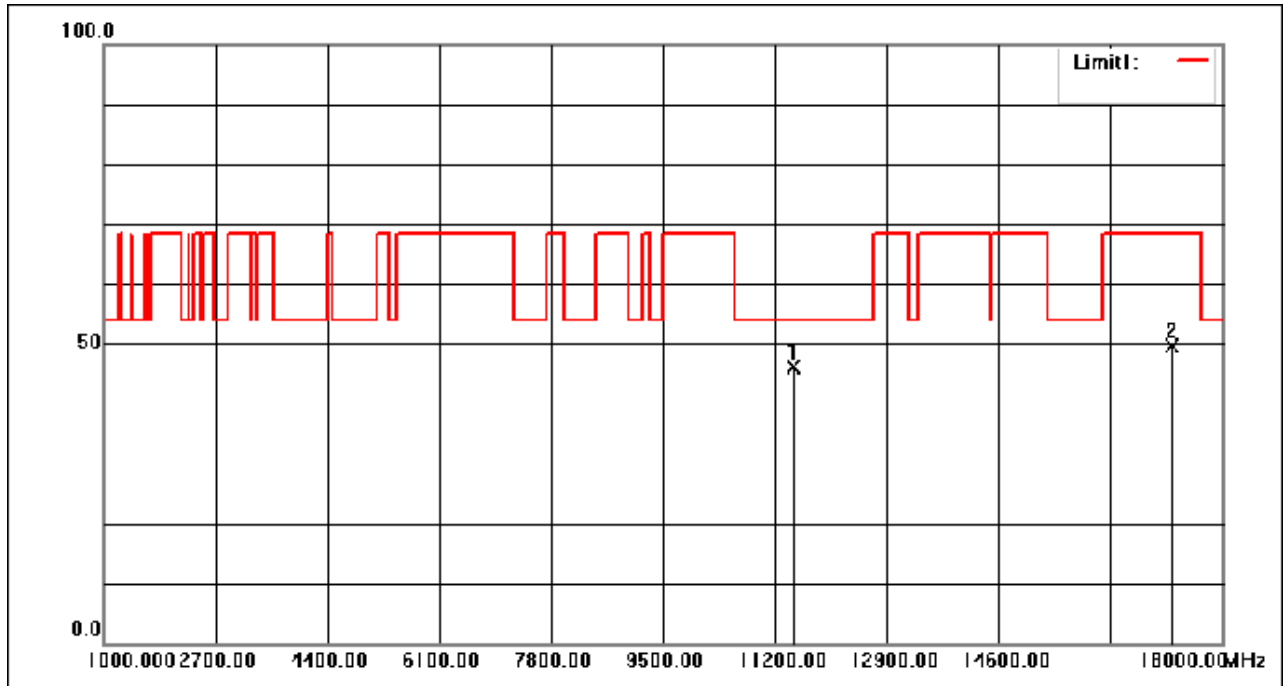
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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11490.000	48.44	-2.24	46.20	54.00	-7.80	peak
2	17235.000	49.75	-0.19	49.56	68.30	-18.74	peak



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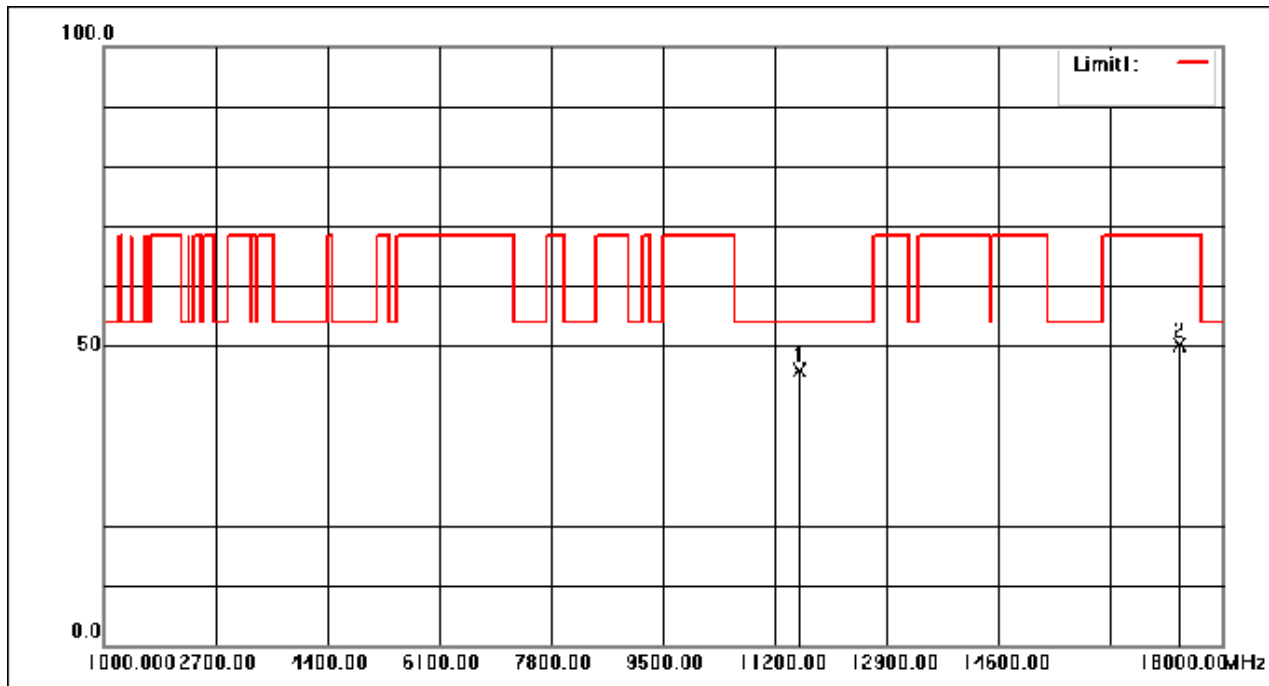
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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	48.16	-2.33	45.83	54.00	-8.17	peak
2	17355.000	50.52	-0.29	50.23	68.30	-18.07	peak



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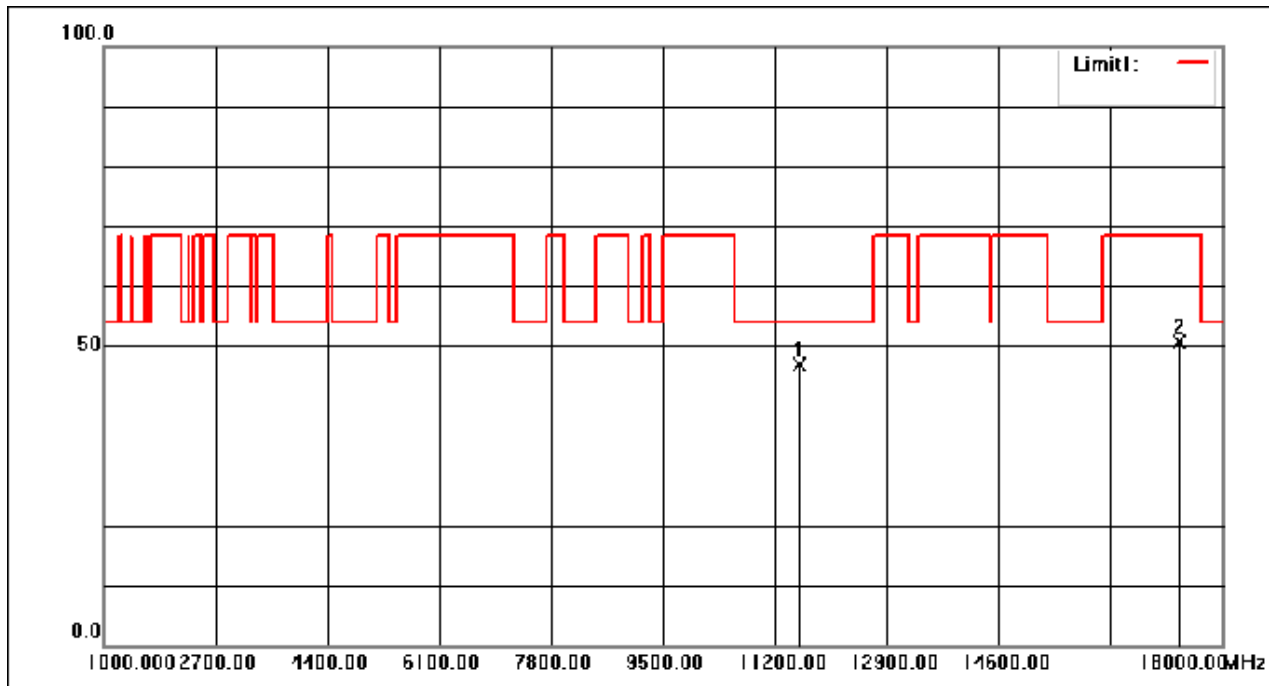
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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	49.28	-2.33	46.95	54.00	-7.05	peak
2	17355.000	50.94	-0.29	50.65	68.30	-17.65	peak



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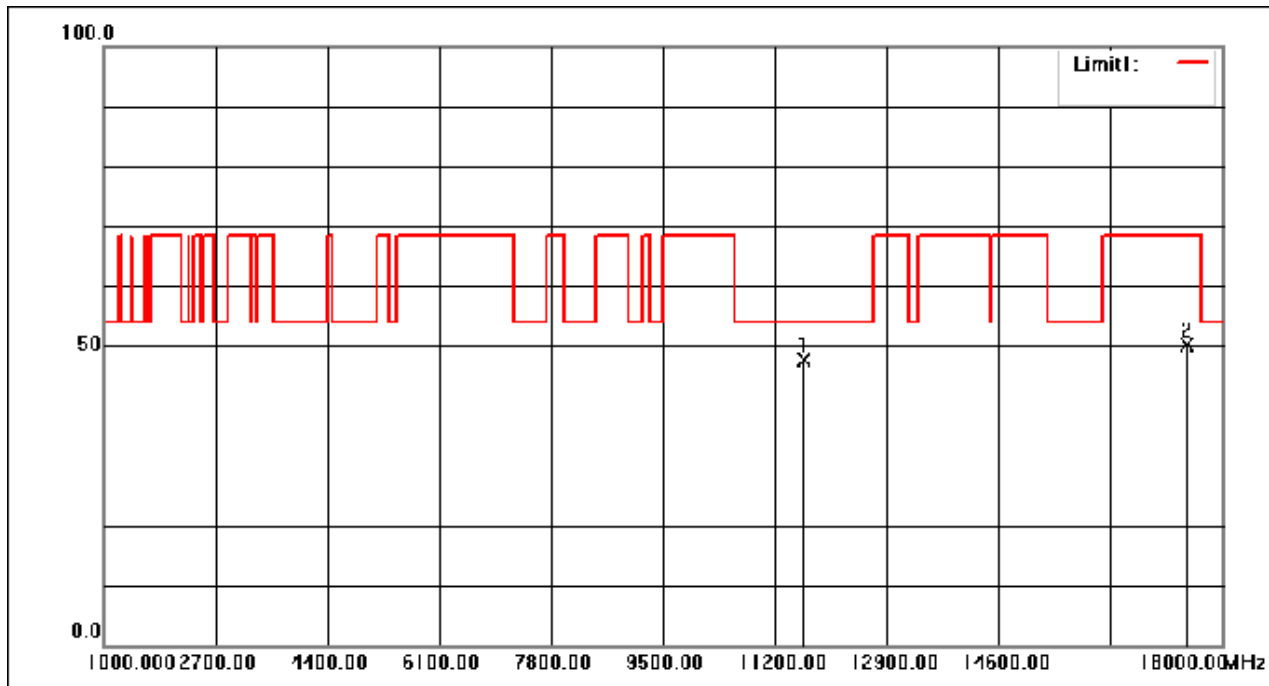
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	49.99	-2.40	47.59	54.00	-6.41	peak
2	17475.000	50.53	-0.39	50.14	68.30	-18.16	peak



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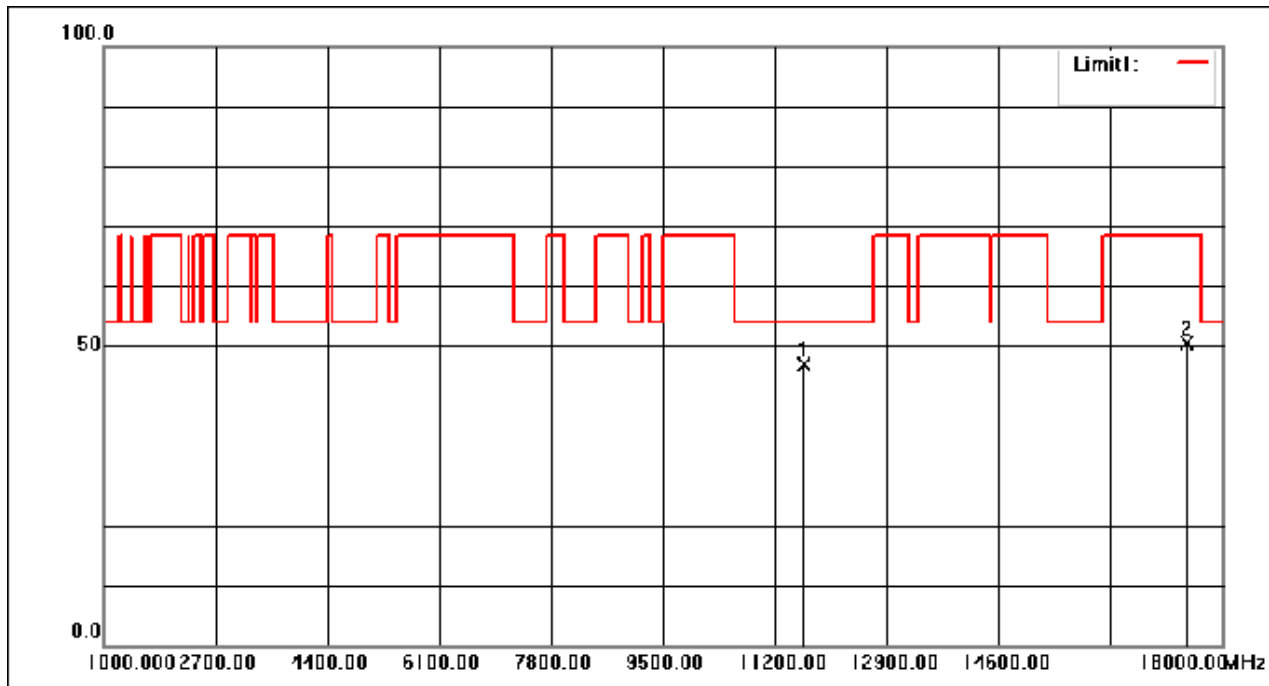
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	49.29	-2.40	46.89	54.00	-7.11	peak
2	17475.000	50.81	-0.39	50.42	68.30	-17.88	peak



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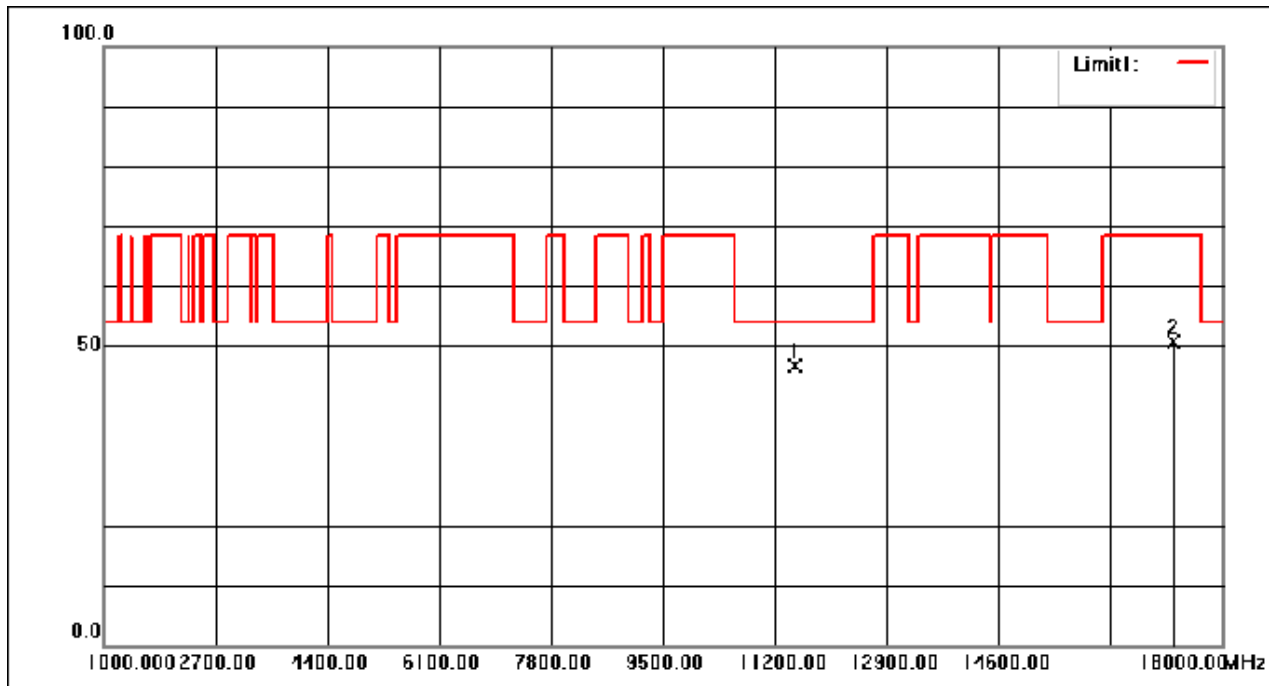
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11510.000	48.96	-2.27	46.69	54.00	-7.31	peak
2	17265.000	50.84	-0.22	50.62	68.30	-17.68	peak



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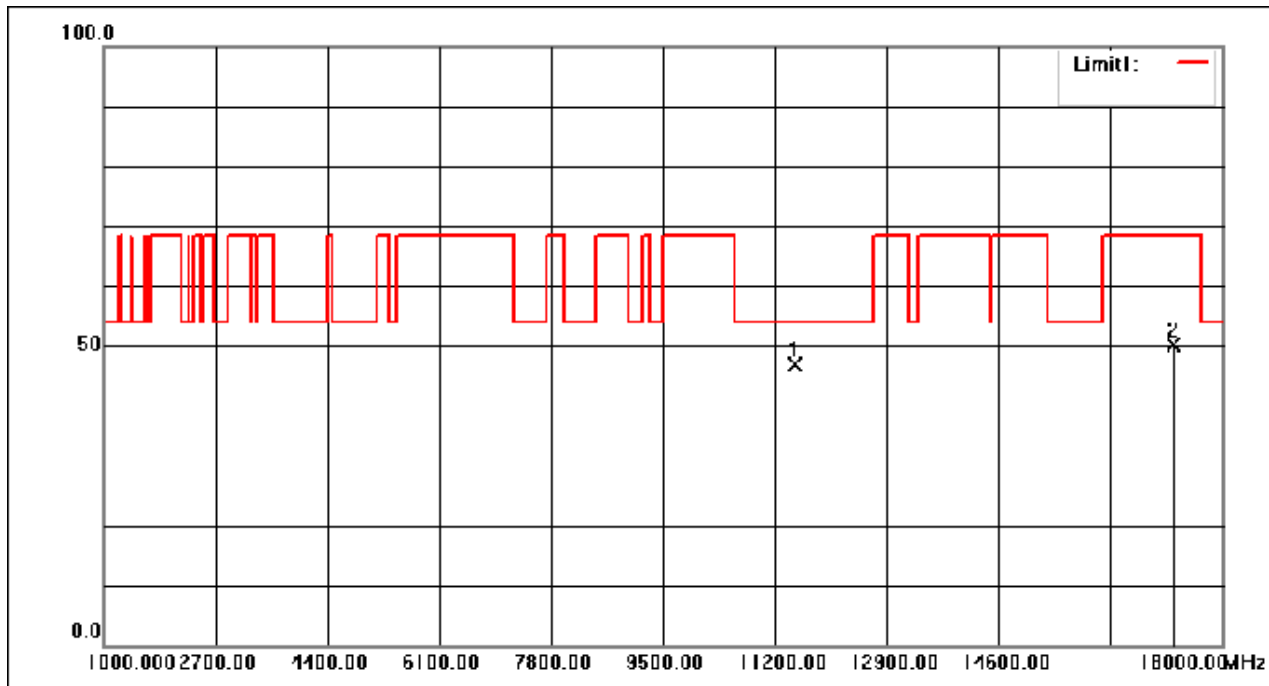
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11510.000	49.25	-2.27	46.98	54.00	-7.02	peak
2	17265.000	50.34	-0.22	50.12	68.30	-18.18	peak



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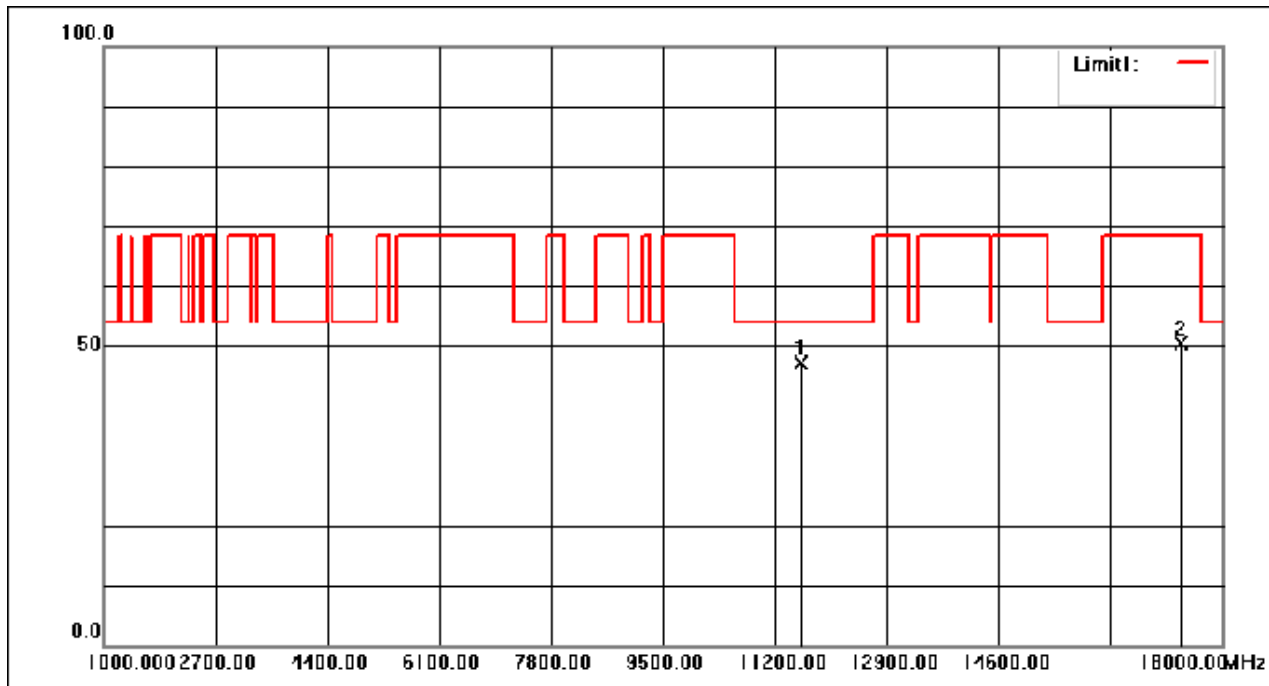
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11590.000	49.49	-2.34	47.15	54.00	-6.85	peak
2	17385.000	50.59	-0.32	50.27	68.30	-18.03	peak



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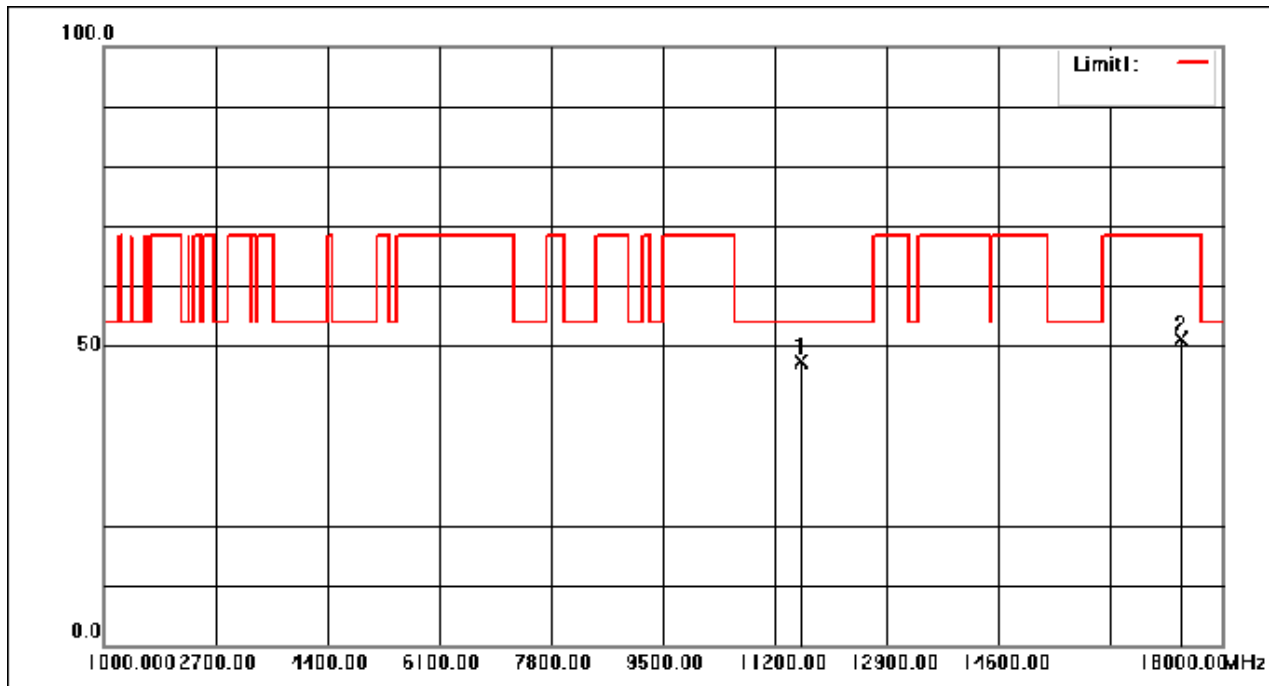
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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11590.000	49.74	-2.34	47.40	54.00	-6.60	peak
2	17385.000	51.56	-0.32	51.24	68.30	-17.06	peak



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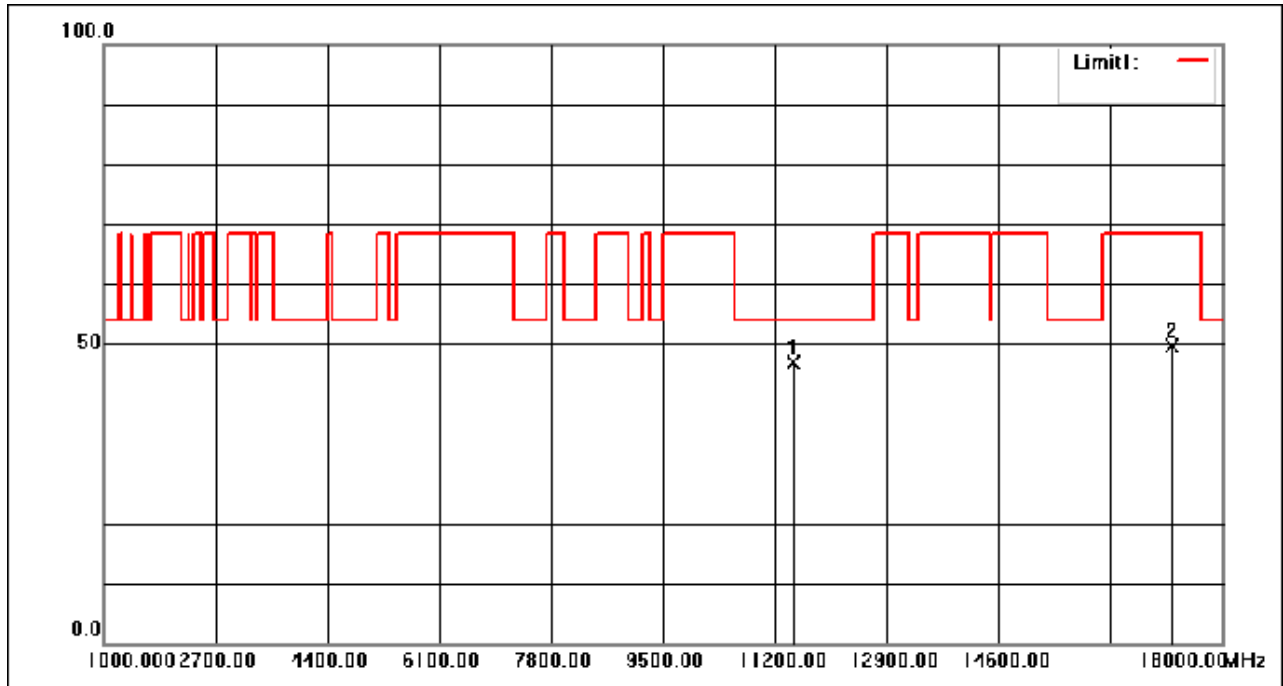
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Mode:g; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11490.000	49.07	-2.24	46.83	54.00	-7.17	peak
2	17235.000	49.94	-0.19	49.75	68.30	-18.55	peak



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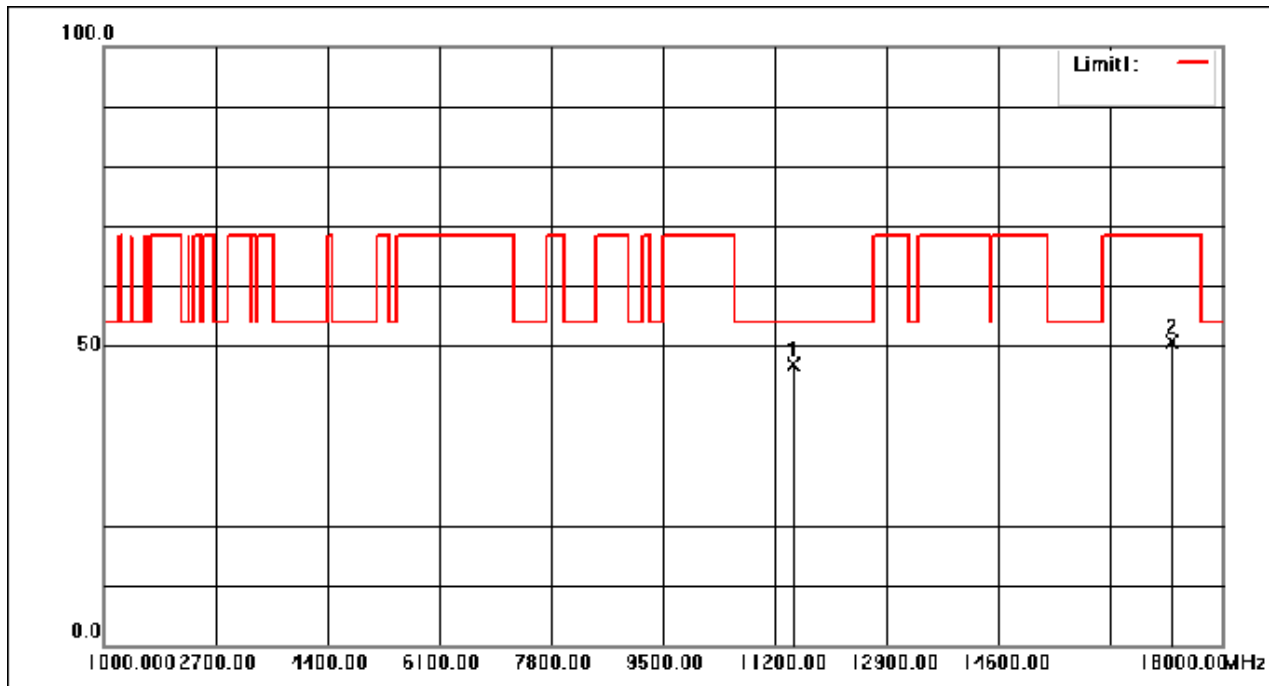
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Mode:g; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11490.000	49.12	-2.24	46.88	54.00	-7.12	peak
2	17235.000	50.84	-0.19	50.65	68.30	-17.65	peak



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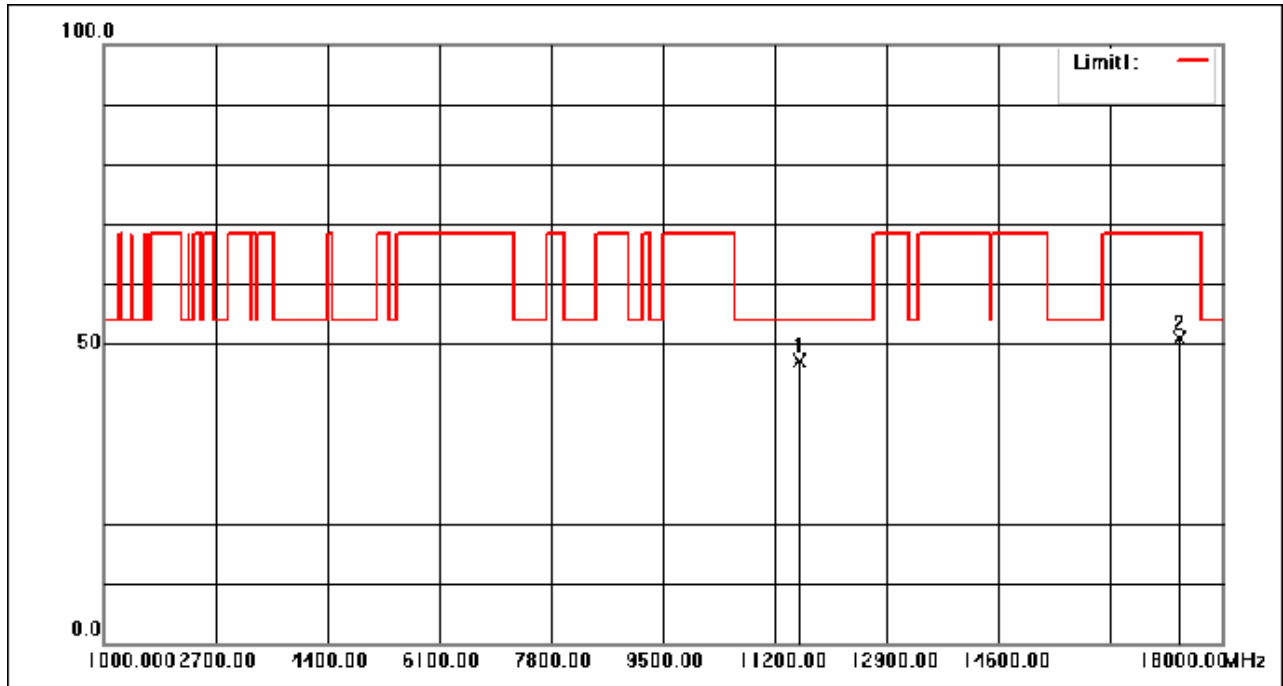
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Testing Center EMC Lab (201612)

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	49.54	-2.33	47.21	54.00	-6.79	peak
2	17355.000	51.11	-0.29	50.82	68.30	-17.48	peak



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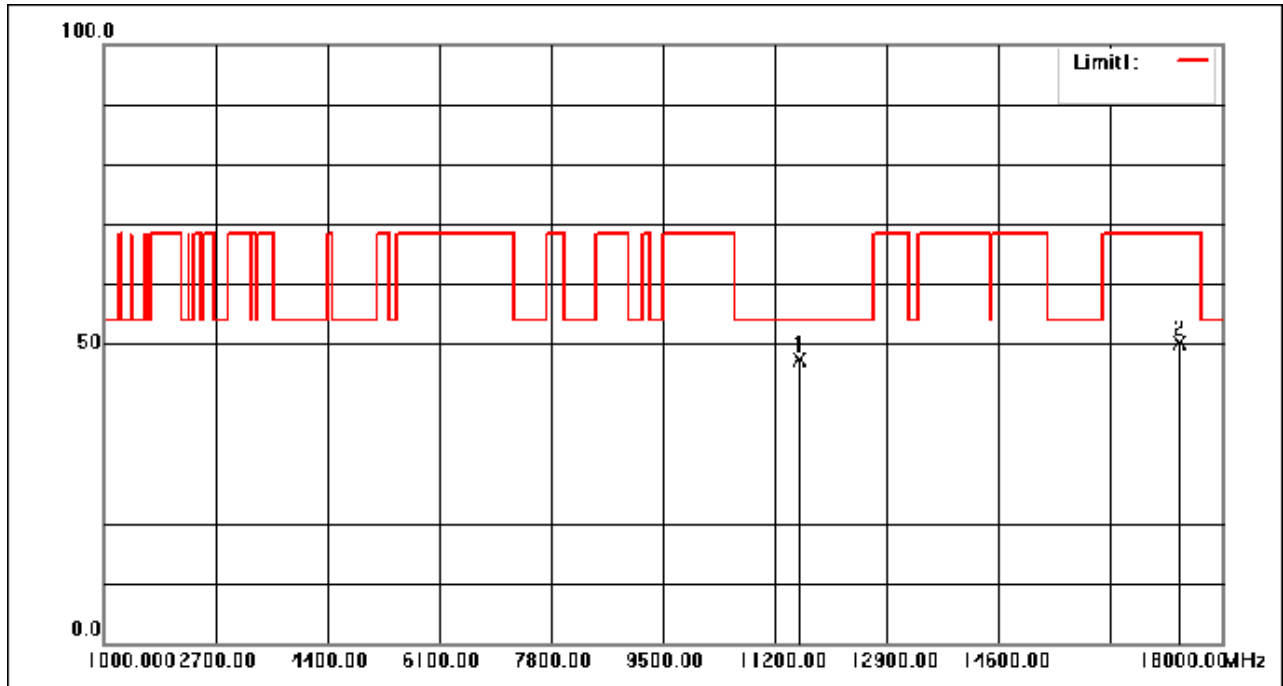
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Mode:g; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	49.77	-2.33	47.44	54.00	-6.56	peak
2	17355.000	50.48	-0.29	50.19	68.30	-18.11	peak



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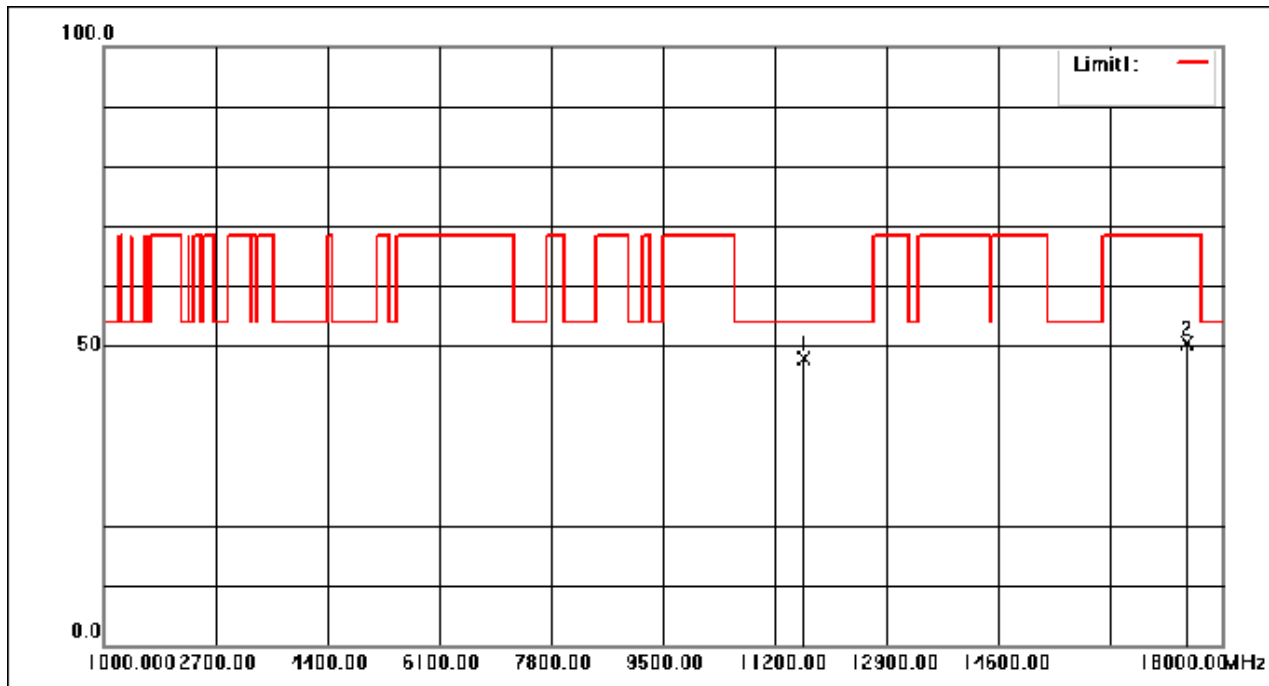
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Mode:g; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	50.29	-2.40	47.89	54.00	-6.11	peak
2	17475.000	50.72	-0.39	50.33	68.30	-17.97	peak



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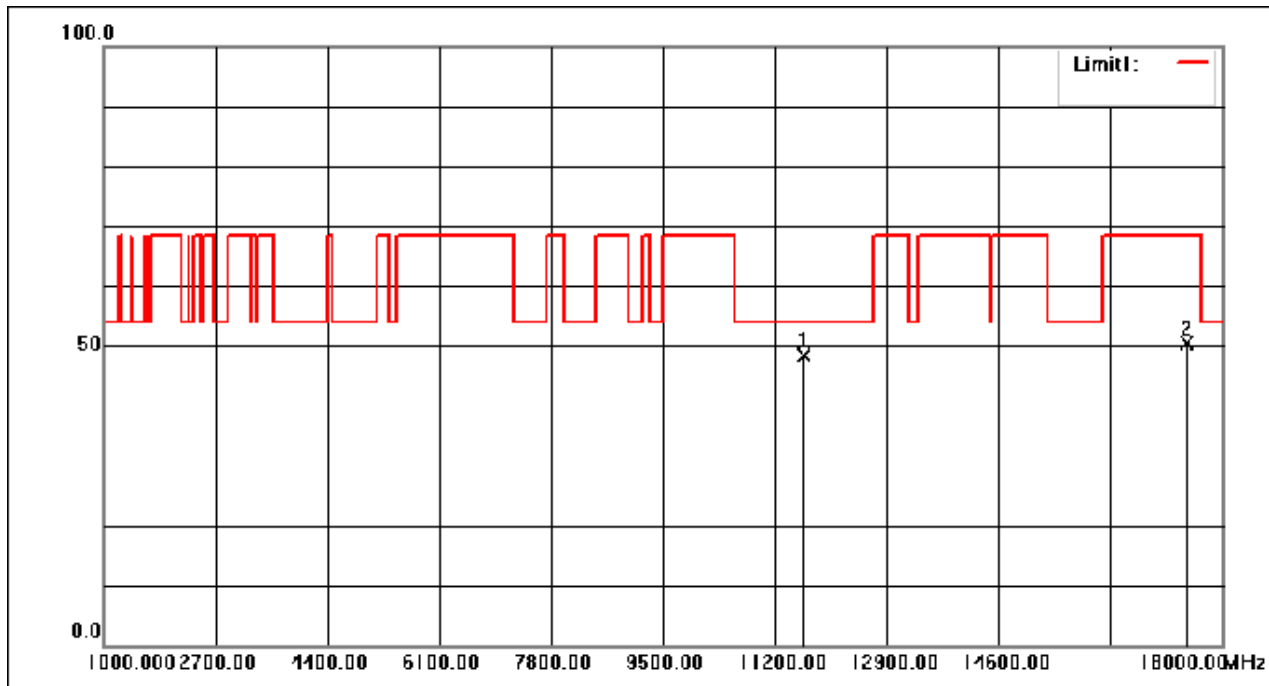
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Mode:g; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	50.74	-2.40	48.34	54.00	-5.66	peak
2	17475.000	50.88	-0.39	50.49	68.30	-17.81	peak



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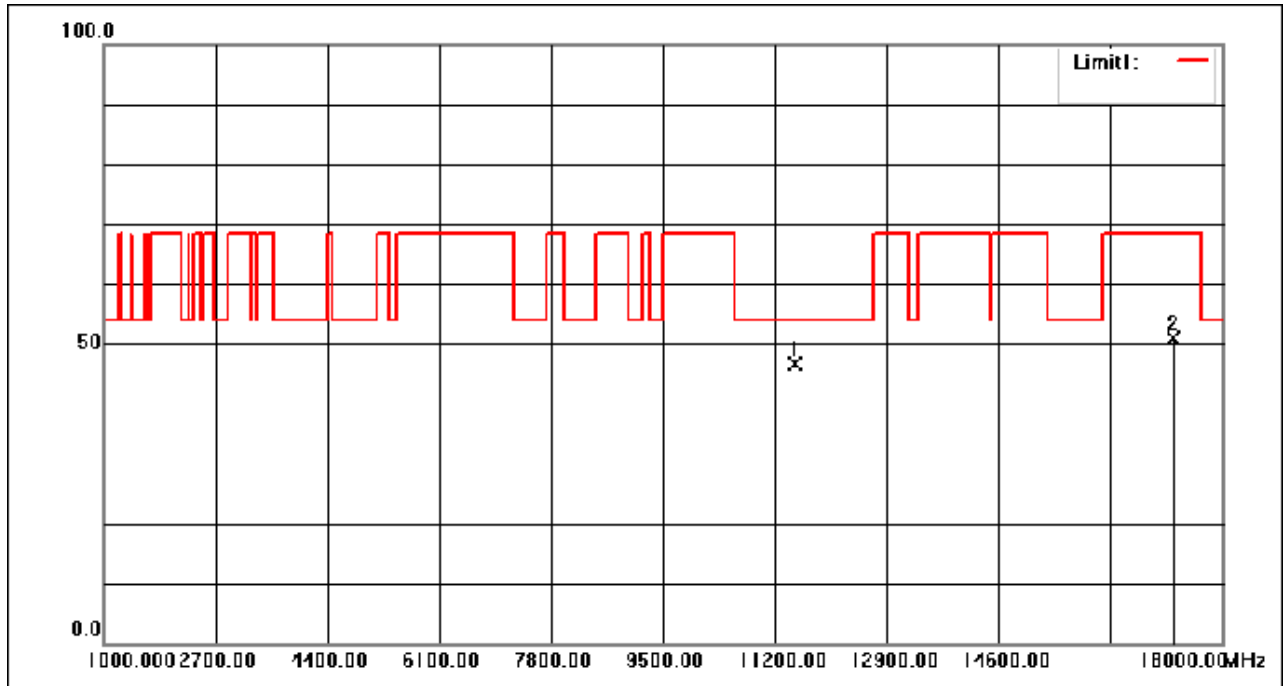
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Report No.: SHEM200900737903
Page: 215 of 224

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11510.000	48.80	-2.27	46.53	54.00	-7.47	peak
2	17265.000	51.11	-0.22	50.89	68.30	-17.41	peak



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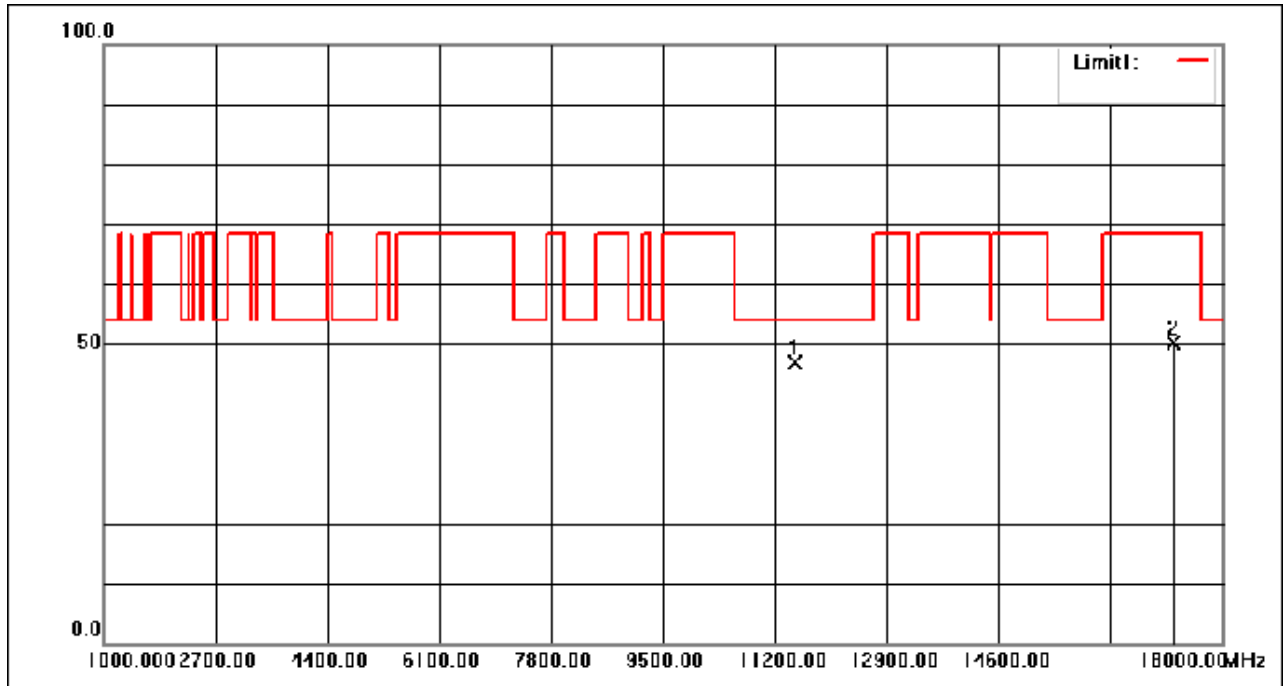
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Mode:g; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11510.000	49.16	-2.27	46.89	54.00	-7.11	peak
2	17265.000	50.37	-0.22	50.15	68.30	-18.15	peak



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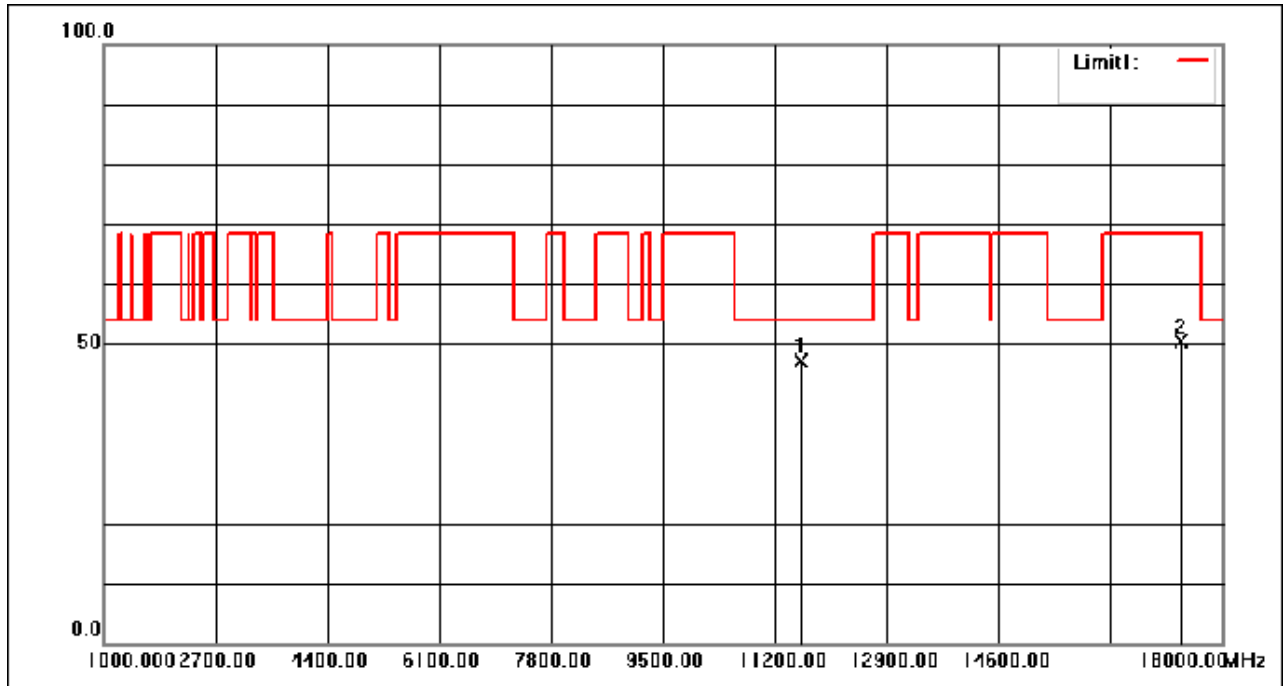


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Mode:g; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11590.000	49.49	-2.34	47.15	54.00	-6.85	peak
2	17385.000	50.59	-0.32	50.27	68.30	-18.03	peak



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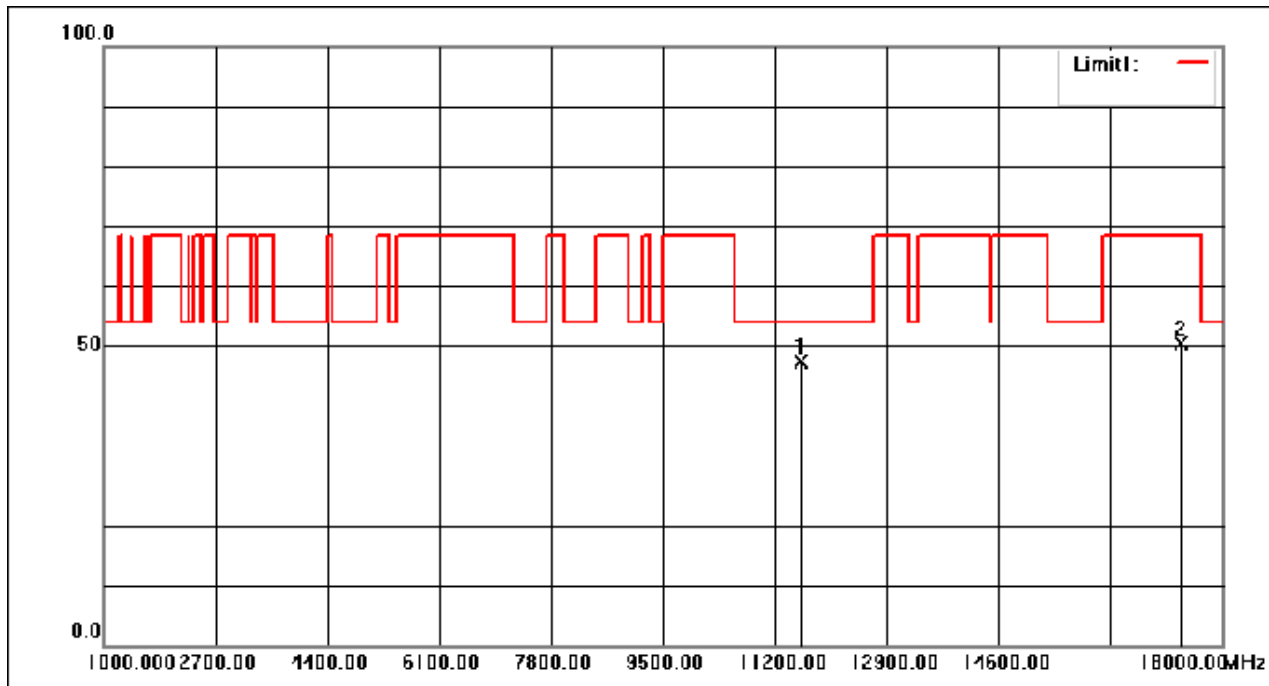
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Mode:g; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11590.000	49.74	-2.34	47.40	54.00	-6.60	peak
2	17385.000	50.74	-0.32	50.42	68.30	-17.88	peak



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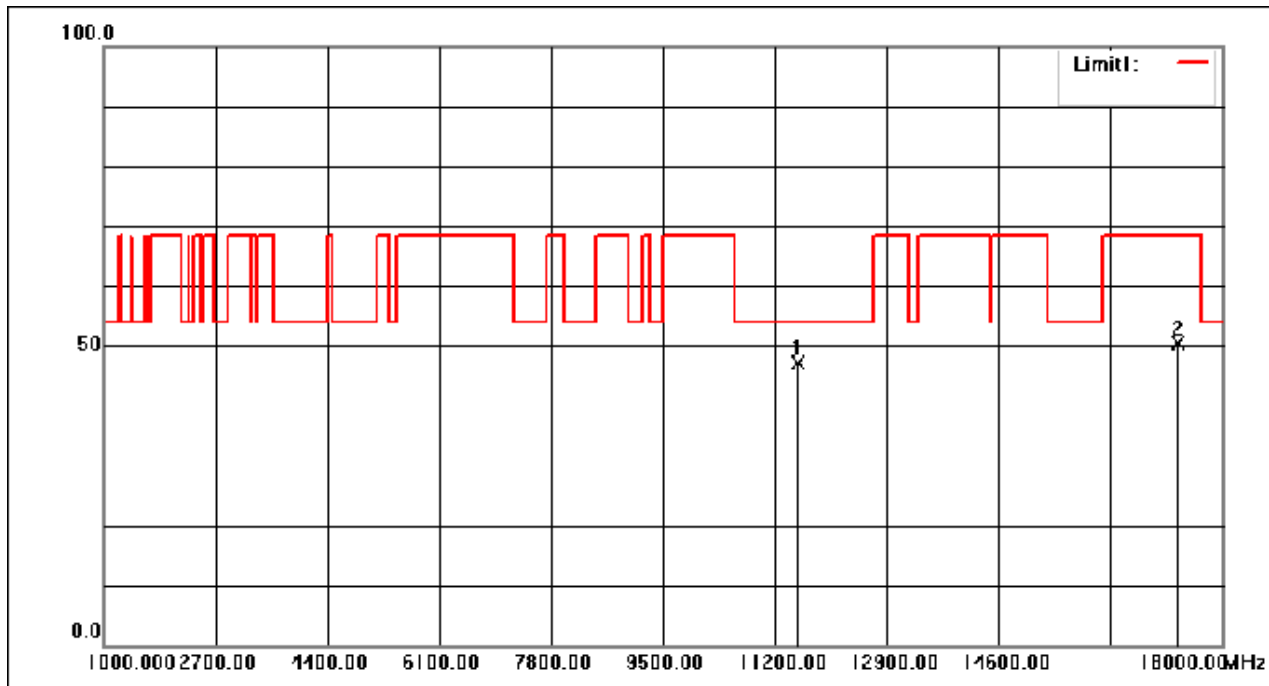
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Mode:g; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11550.000	49.35	-2.31	47.04	54.00	-6.96	peak
2	17325.000	50.76	-0.27	50.49	68.30	-17.81	peak



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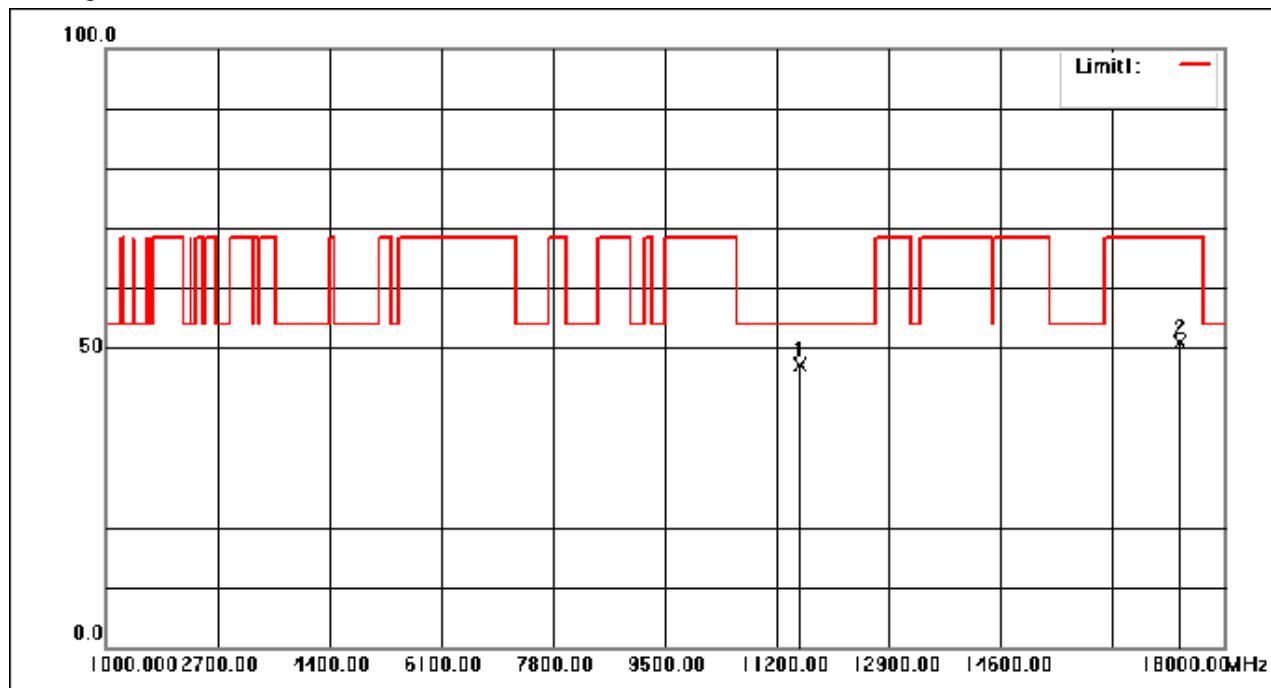
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Mode:g; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11550.000	49.41	-2.31	47.10	54.00	-6.90	peak
2	17325.000	51.10	-0.27	50.83	68.30	-17.47	peak



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7.9 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.



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7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode: d: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.

e: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.

f: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.

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



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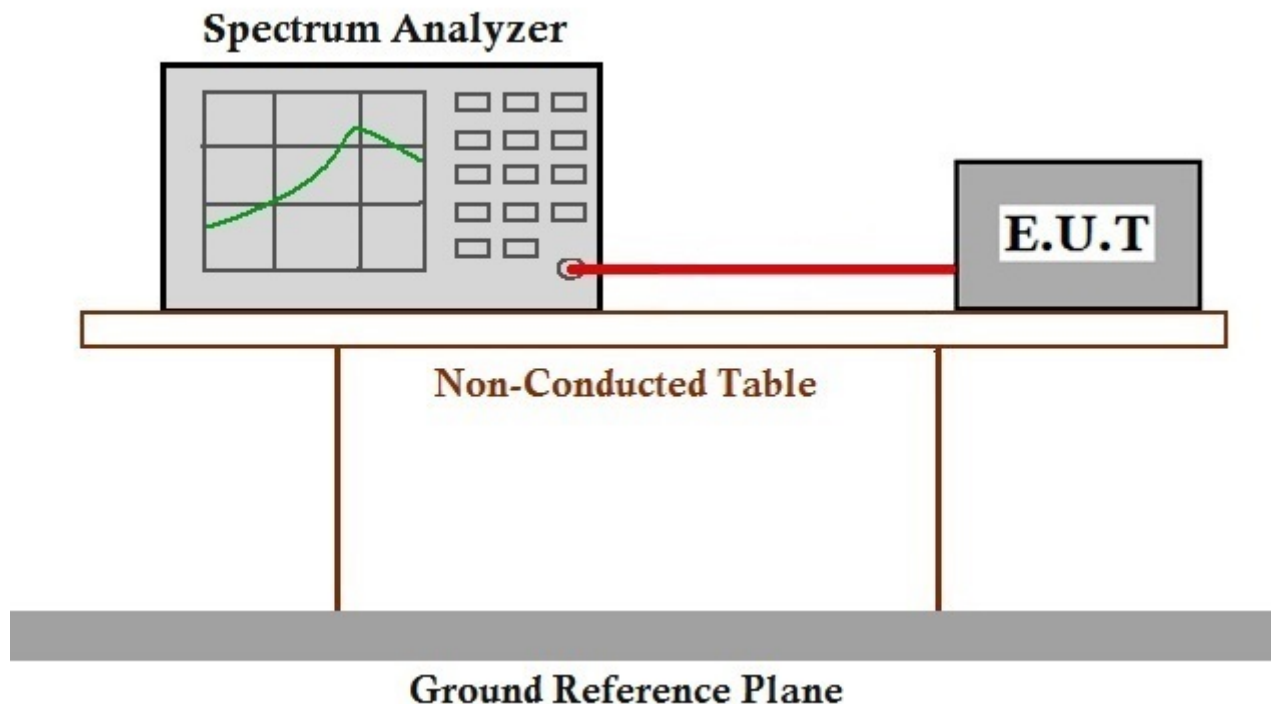
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7.9.2 Test Setup Diagram



7.9.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM200900737903



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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