

TEST REPORT

Application No.: SHCR2201000085AT
FCC ID: UCZ-B463AJ-Z
IC: 8575A-B463AJZ
Applicant: Lorex Technology Inc.
Address of Applicant: 250 Royal crest Court, Markham, L3R 3S1, Ontario, Canada.
Manufacturer: Lorex Technology Inc.
Address of Manufacturer: 250 Royal crest Court, Markham, L3R 3S1, Ontario, Canada.
Equipment Under Test (EUT):
EUT Name: 2K Wire-free Doorbell
Model No.: B463AJ-Z
Trade mark: **LOREX**
Standard(s) : 47 CFR Part 15, Subpart E 15.407
RSS-247 Issue 2, February 2017
RSS-Gen Issue 5, February 2021 Amendment 2
Date of Receipt: 2021-12-21
Date of Test: 2022-01-06 to 2022-01-25
Date of Issue: 2022-01-26

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

Parlam Zhan

Parlam Zhan
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2022-01-26	/

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



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	RSS-Gen Clause 6.8	N/A	Pass
Transmission in the Absence of Data	47 CFR Part 15, Subpart E 15.407 (c)	RSS-247 Section 6.4(a)	N/A	Pass

N/A: Not applicable

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(6)	RSS-Gen Section 8.8	ANSI C63.10 (2013) Section 6.2	Pass
99% Bandwidth	N/A	RSS-Gen Section 6.7	KDB 789033 II D	Pass
26dB Emission bandwidth	47 CFR Part 15, Subpart E 15.407 (a)	RSS-247 Section 6.2.1(1)	KDB 789033 D02 II C 1	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	47 CFR Part 15, Subpart E 15.407 (e)	RSS-247 Section 6.2.4	KDB 789033 D02 II C 2	Pass
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4	KDB 789033 D02 II E	Pass
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4	KDB 789033 D02 II F	Pass
Radiated Emissions	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass
Frequency Stability	47 CFR Part 15, Subpart E 15.407 (g)	RSS-Gen Section 8.11	ANSI C63.10 (2013) Section 6.8& RSS-Gen Section 6.11	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply: 16 V-24 V, AC wire-powered or DC5V 2A by USB port
DC 3.6V Rechargeable Lithium ion Battery
Battery Model: 18650/6200mAh/22.32Wh/LS2P
Rate Voltage: 3.6V
Charging Limit Voltage: 4.2V
Rated Capacity: 6200mAh/22.32Wh

Test voltage: AC 120V/60Hz
Serial Number: 2M0024EPAG06399
Software Version: V2.8
DFS Function: Slave without Radar detection
TPC Function: Not Support

	Band	Mode	Frequency Range(MHz)	Number of channels
Operation Frequency:	UNII Band I	802.11a/n(HT20)	5180-5240	4
	UNII Band II-A	802.11a/n(HT20)	5260-5320	4
	UNII Band II-C	802.11a/n(HT20)	5500-5700	11
	UNII Band III	802.11a/n(HT20)	5745-5825	5
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)			
Channel Spacing:	802.11a/n(HT20): 20MHz			
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-7			
Antenna Gain:	Ant 1: 2.99dBi (Provided by the manufacturer) Ant 2: 2.83dBi (Provided by the manufacturer)			
Antenna Type:	Antenna 1: FPC Antenna; Antenna 2: FPC Antenna			

Remark: For frequencies falling between 5150-5250 and 5600-5650MHz will not be used in Canada.



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4.2 Power level setting using in test

Channel	802.11a		802.11n(HT20)	
	Ant 1	Ant 2	Ant 2	Ant 2
36	58	58	58	58
40	58	58	58	58
48	58	58	58	58
52	60	60	60	60
60	60	60	60	60
64	60	60	60	60
100	60	60	60	60
116	56	56	58	58
140	46	46	48	48
149	46	46	48	48
157	46	46	48	48
165	46	46	48	48

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	HON-KWANG	A12-3A-10	/
Note Book	Acer	ZQT	NXM0QCN01031403EE876



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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	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

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



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4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

Tel: +86 512 5735 5888

Fax: +86 512 5737 0818

No tests were sub-contracted.

4.6 Test Facility

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

• CNAS (No. CNAS L4354)

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

• A2LA (Certificate No. 2541.01)

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

• FCC (Designation Number: CN1172)

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

Designation Number: CN1172.

• ISED (CAB identifier: CN0072)

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

Company Number: 2324E

• VCCI (Member No.: 1938)

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

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

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



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16	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
18	Filter (1745 MHz~1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz~1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
20	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
21	Filter (1532 MHz~1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
22	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
23	RE test cable	/	RE01-RE04	/	04/15/2021	04/14/2022
24	Software	Faratronic	EZ_EMG-v 3A1	N/A	N/A	N/A



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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

EUT Antenna:

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

Antenna location: Refer to Appendix (Internal Photos)



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

WIFI chip (BCM43013) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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7 Radio Spectrum Matter Test Results

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

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

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

Limit:

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

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case: g:Charge + TX mode (Band 1)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

h:Charge + TX mode (Band 2A)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

i:Charge + TX mode (Band 2C)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

j:Charge + TX mode (Band 3)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

The worst case for final test:

h:Charge + TX mode (Band 2A)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.



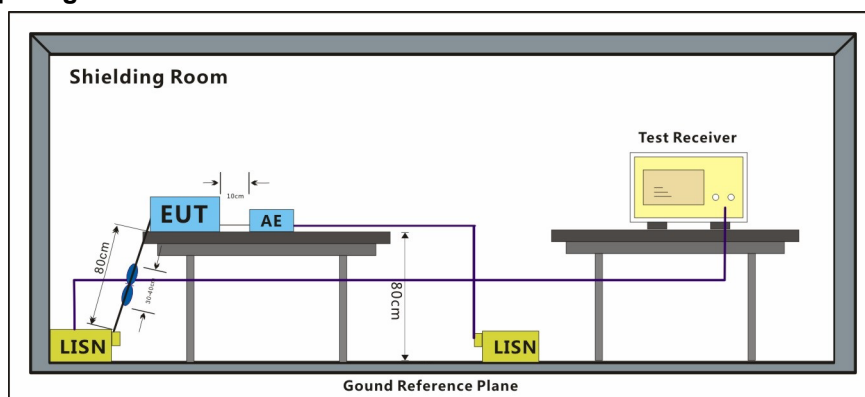
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7.1.2 Test Setup Diagram

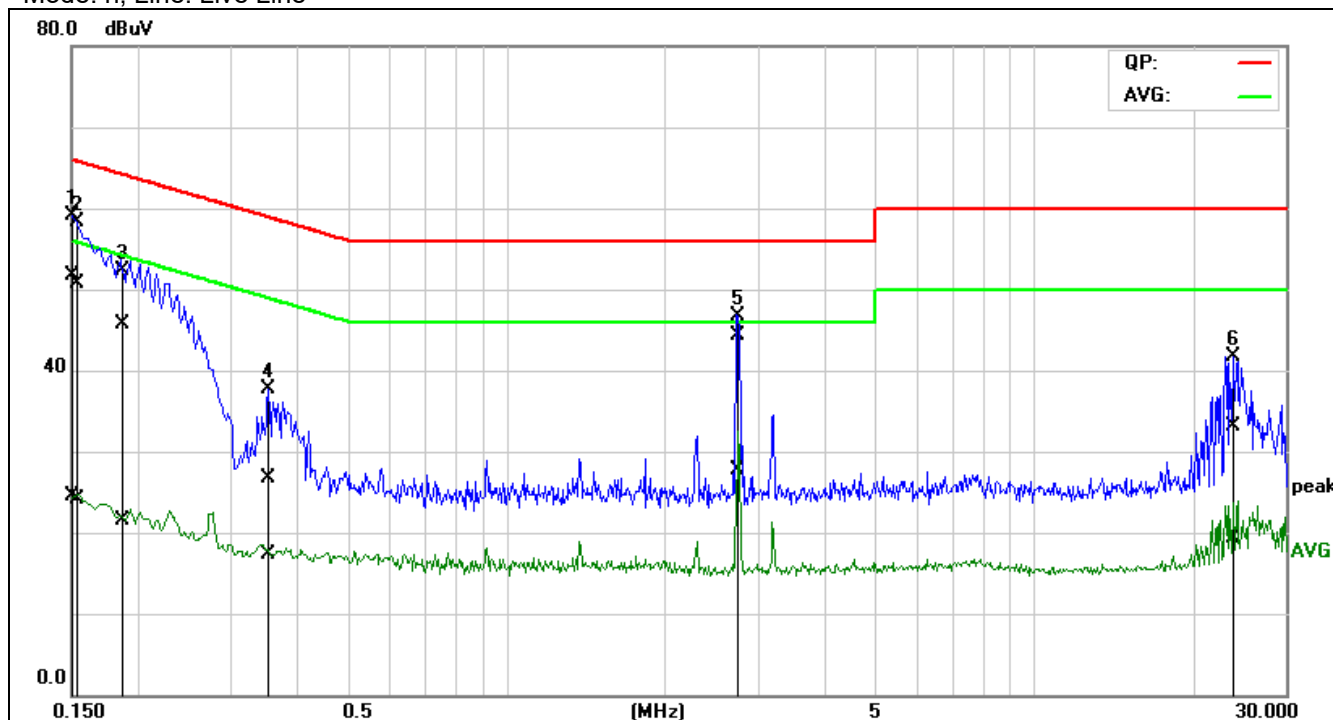


7.1.3 Measurement Procedure and Data

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

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

Mode: h; Line: Live Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1510	31.90	4.75	19.76	51.66	24.51	65.94	55.94	-14.28	-31.43	Pass
2	0.1545	30.97	4.42	19.76	50.73	24.18	65.75	55.75	-15.02	-31.57	Pass
3	0.1894	26.00	1.78	19.75	45.75	21.53	64.06	54.06	-18.31	-32.53	Pass
4	0.3532	6.89	-2.54	19.75	26.64	17.21	58.89	48.89	-32.25	-31.68	Pass
5*	2.7525	24.57	8.03	19.74	44.31	27.77	56.00	46.00	-11.69	-18.23	Pass
6	23.8933	12.99	-0.81	20.21	33.20	19.40	60.00	50.00	-26.80	-30.60	Pass



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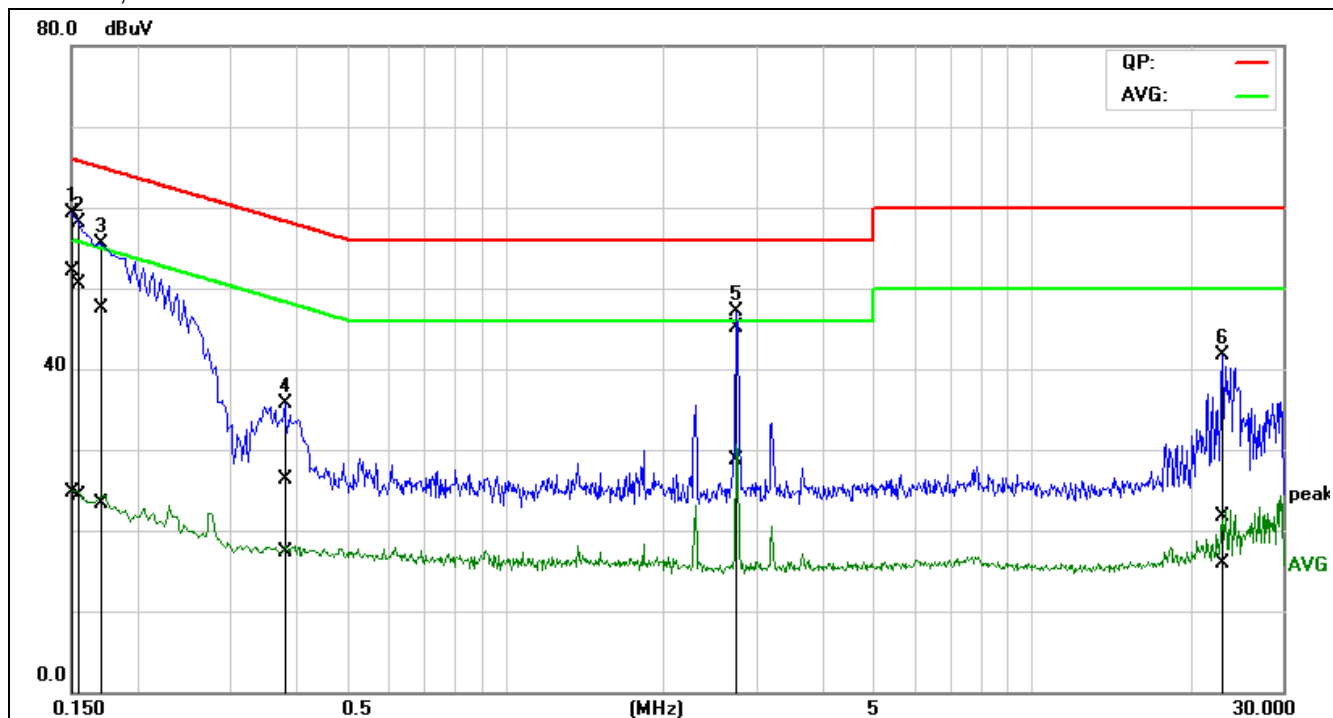
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Mode: h; Line: Neutral Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1500	32.31	5.01	19.76	52.07	24.77	65.99	56.00	-13.92	-31.23	Pass
2	0.1559	30.76	4.47	19.76	50.52	24.23	65.67	55.68	-15.15	-31.45	Pass
3	0.1715	27.66	3.60	19.76	47.42	23.36	64.88	54.89	-17.46	-31.53	Pass
4	0.3820	6.48	-2.47	19.78	26.26	17.31	58.23	48.24	-31.97	-30.93	Pass
5*	2.7559	25.40	9.02	19.74	45.14	28.76	56.00	46.00	-10.86	-17.24	Pass
6	23.1477	1.59	-4.37	20.18	21.77	15.81	60.00	50.00	-38.23	-34.19	Pass



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7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.2.1 E.U.T. Operation

Operating Environment:

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

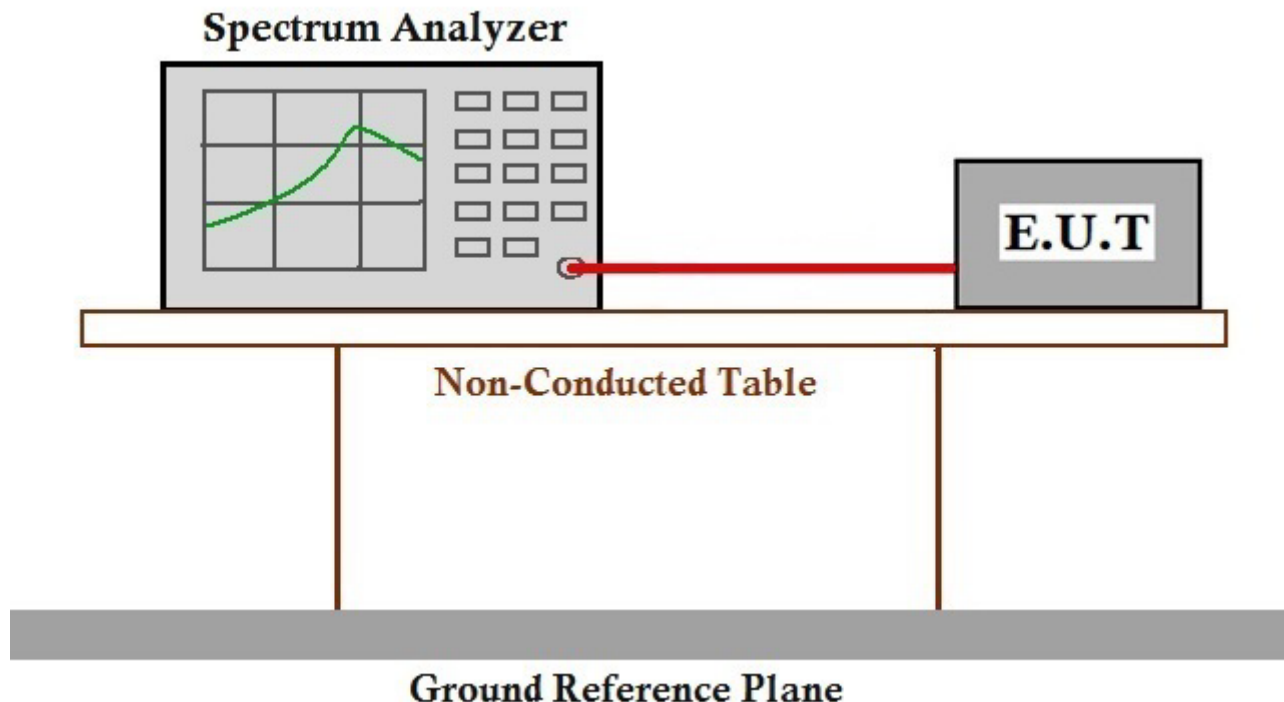
Test mode g:Charge + TX mode (Band 1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20).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

h:Charge + TX mode (Band 2A)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

i:Charge + TX mode (Band 2C)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

j:Charge + TX mode (Band 3)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



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7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR220100008502



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7.3 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

7.3.1 E.U.T. Operation

Operating Environment:

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

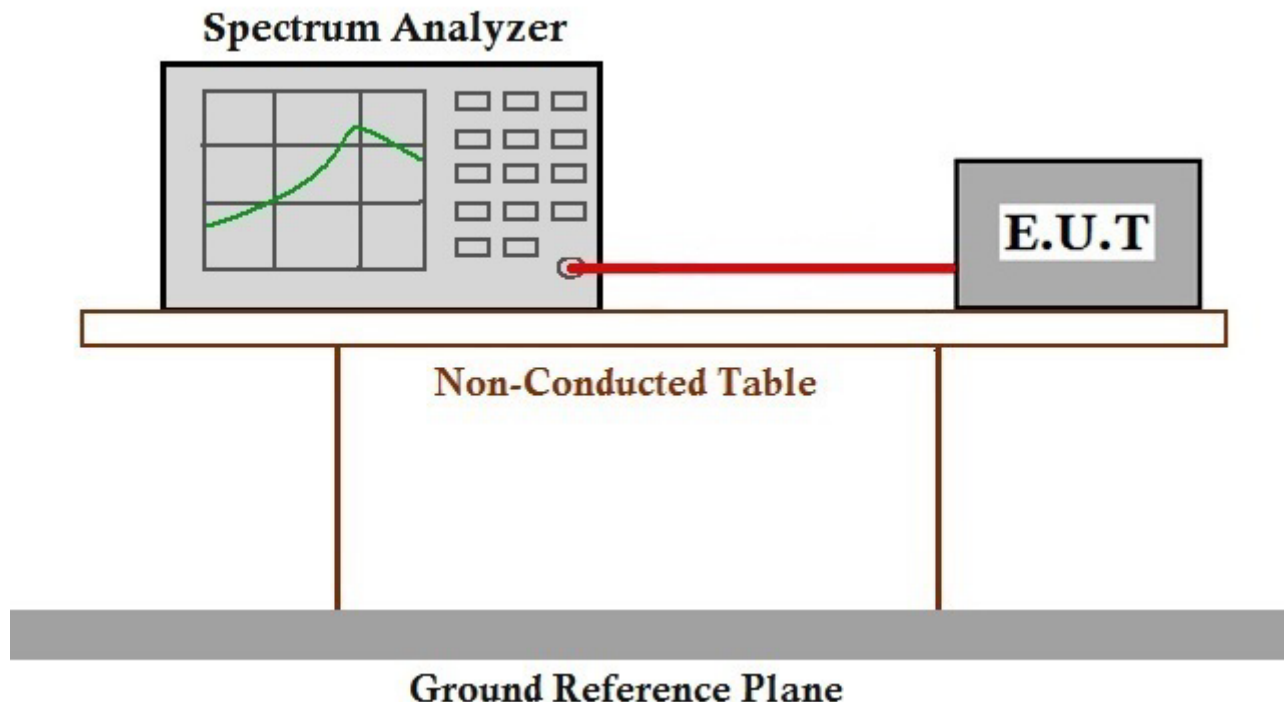
Test mode: g:Charge + TX mode (Band 1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20).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

h:Charge + TX mode (Band 2A)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

i:Charge + TX mode (Band 2C)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

j:Charge + TX mode (Band 3)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

7.3.2 Test Setup Diagram



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7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR220100008502



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7.4 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

Operating Environment:

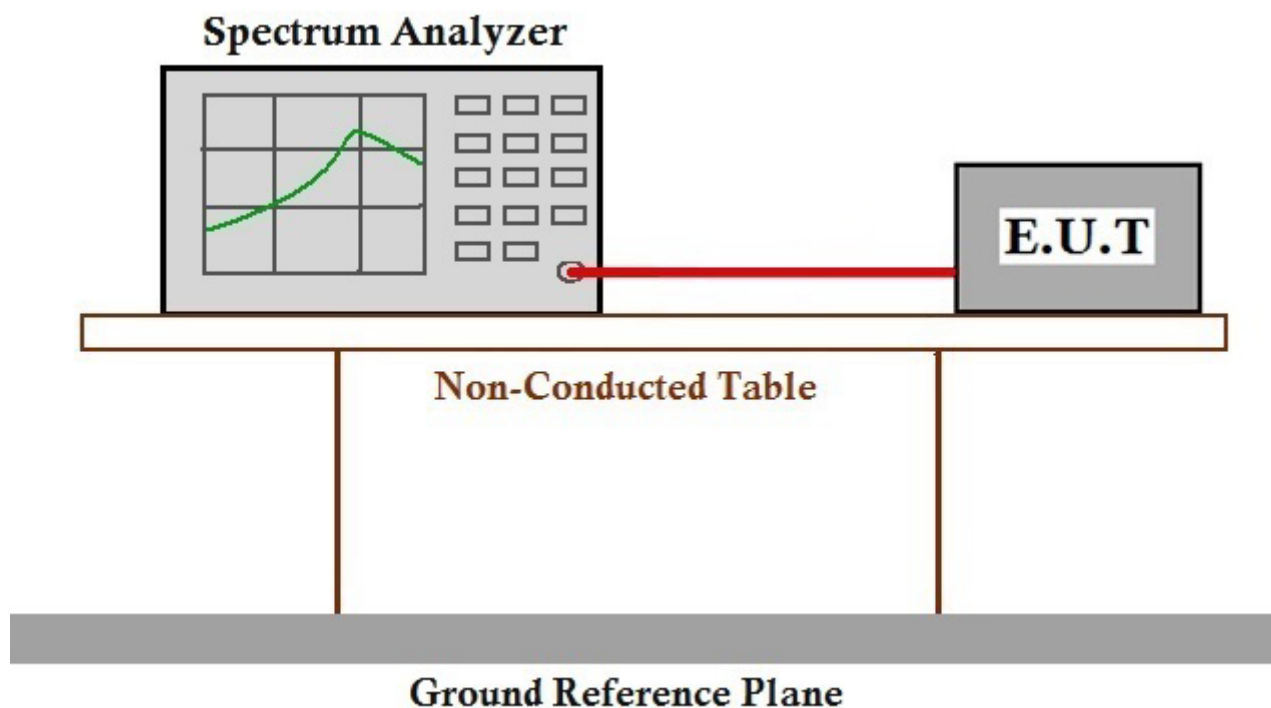
Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode: g:Charge + TX mode (Band 1)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

h:Charge + TX mode (Band 2A)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

i:Charge + TX mode (Band 2C)_Keep the EUT in charging and 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). 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 SHCR220100008502



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

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

Test Method: KDB 789033 D02 II C 2

Limit: ≥ 500 kHz

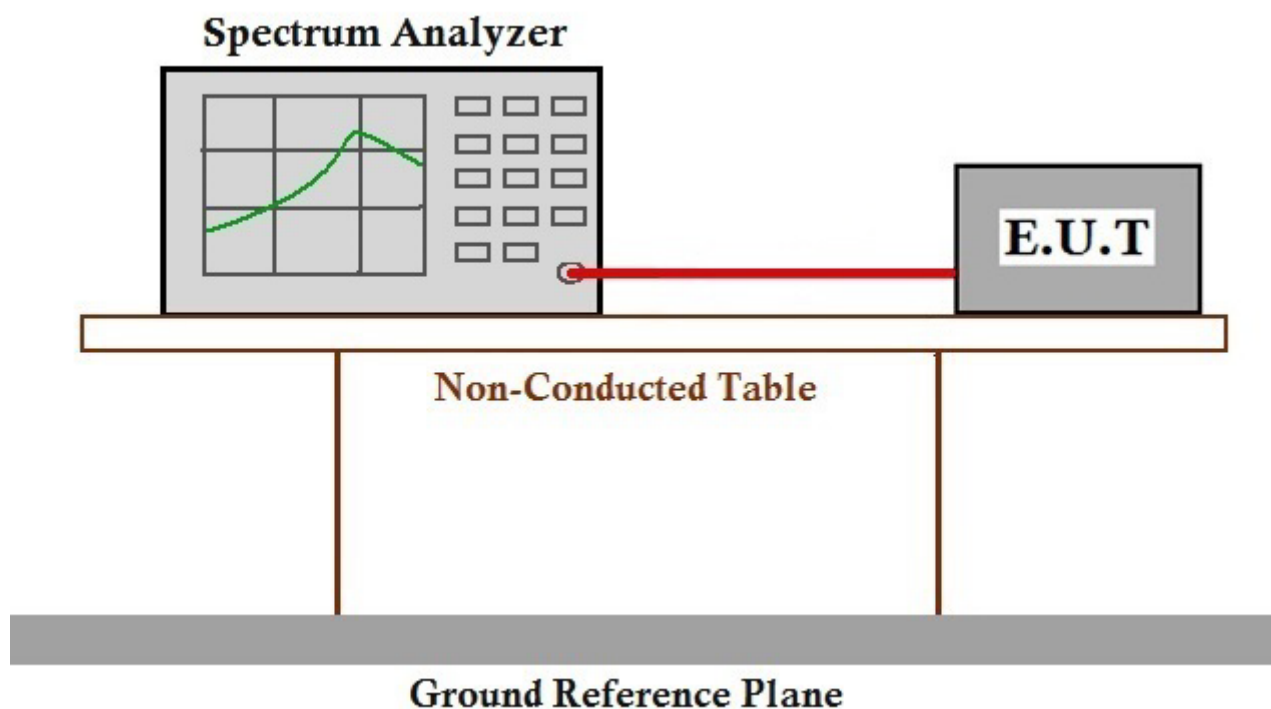
7.5.1 E.U.T. Operation

Operating Environment:

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

Test mode j:Charge + TX mode (Band 3)_Keep the EUT in charging and 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). 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 SHCR220100008502



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7.6 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	<p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</p>

7.6.1 E.U.T. Operation

Operating Environment:

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

Test mode: g:Charge + TX mode (Band 1)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

h:Charge + TX mode (Band 2A)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

i:Charge + TX mode (Band 2C)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

j:Charge + TX mode (Band 3)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.



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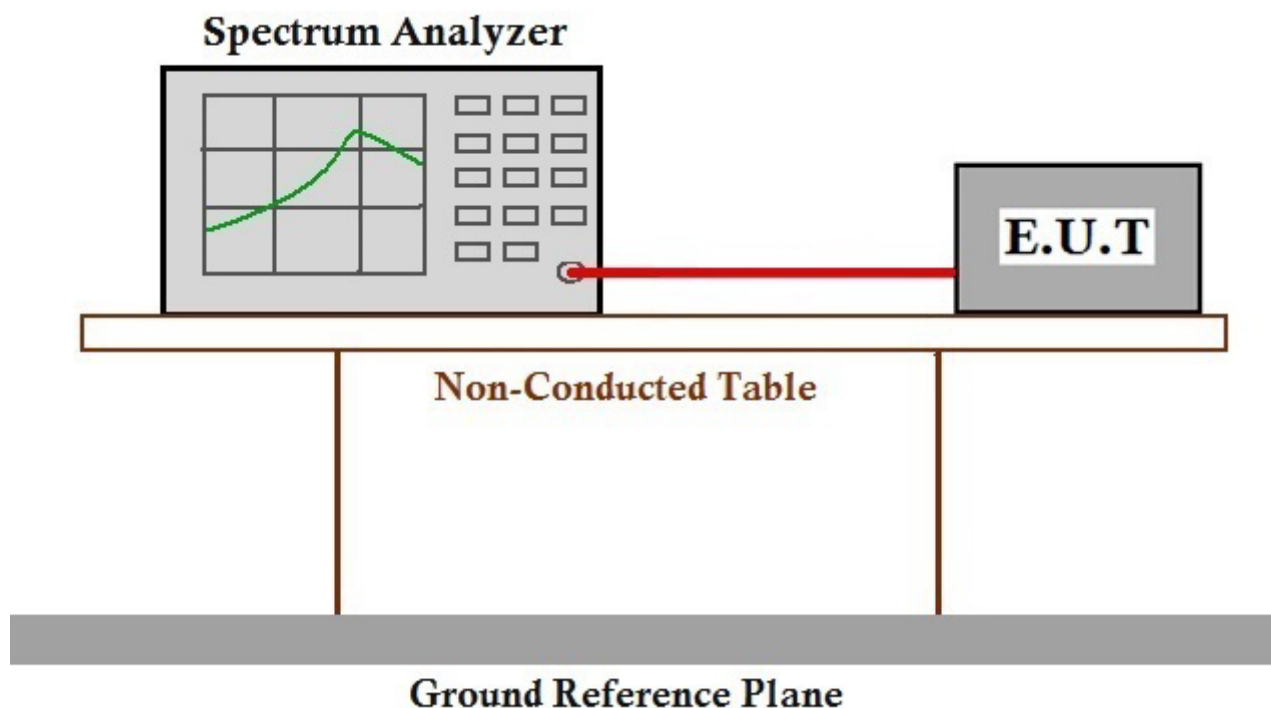
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7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR220100008502

7.7 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

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

Test mode: g:Charge + TX mode (Band 1)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

h:Charge + TX mode (Band 2A)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

i:Charge + TX mode (Band 2C)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

j:Charge + TX mode (Band 3)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.



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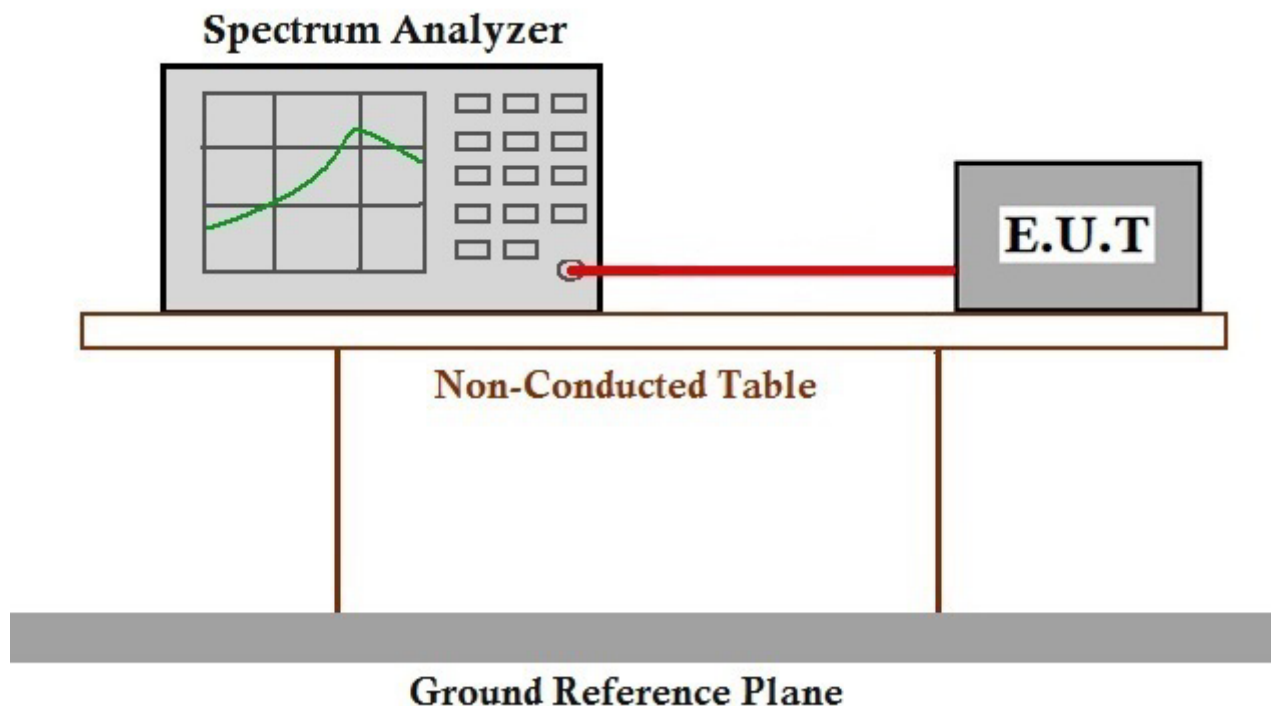
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7.7.2 Test Setup Diagram



7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR220100008502

7.8 Radiated Emissions

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

Test Method: KDB 789033 D02 II G

Limit:

Limit:

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

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

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

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

7.8.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case: c: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). Only the data of worst case is recorded in the report.

d: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). Only the data of worst case is recorded in the report.

e: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). Only the data of worst case is recorded in the report.

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

g:Charge + TX mode (Band 1)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

h:Charge + TX mode (Band 2A)_Keep the EUT in charging and continuously



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The worst case
for final test:

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). Only the data of worst case is recorded in the report.

i:Charge + TX mode (Band 2C)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

j:Charge + TX mode (Band 3)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

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i:Charge + TX mode (Band 2C)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

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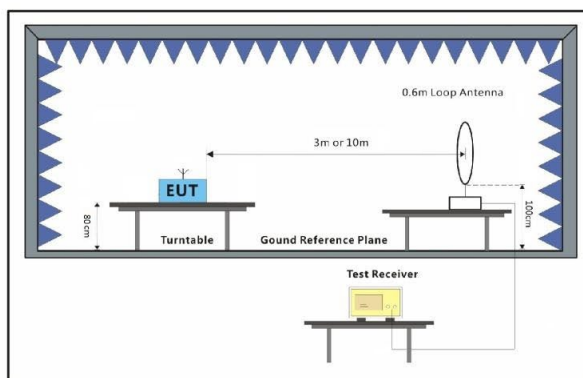
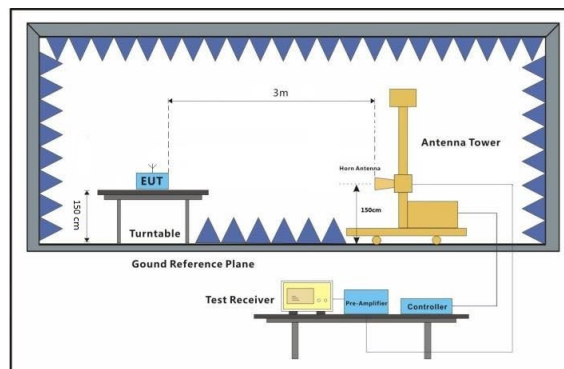
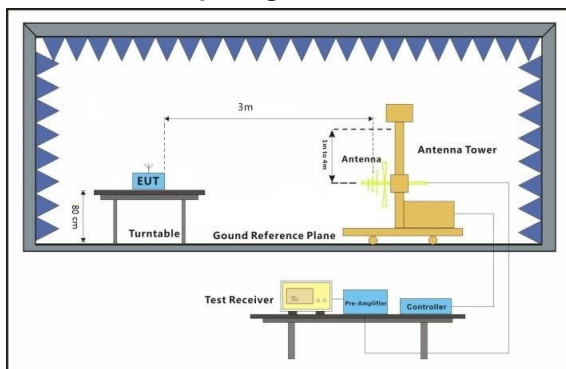
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7.8.2 Test Setup Diagram



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 mode, however, it was determined that SISO antenna 1 operation for a/n(HT20) modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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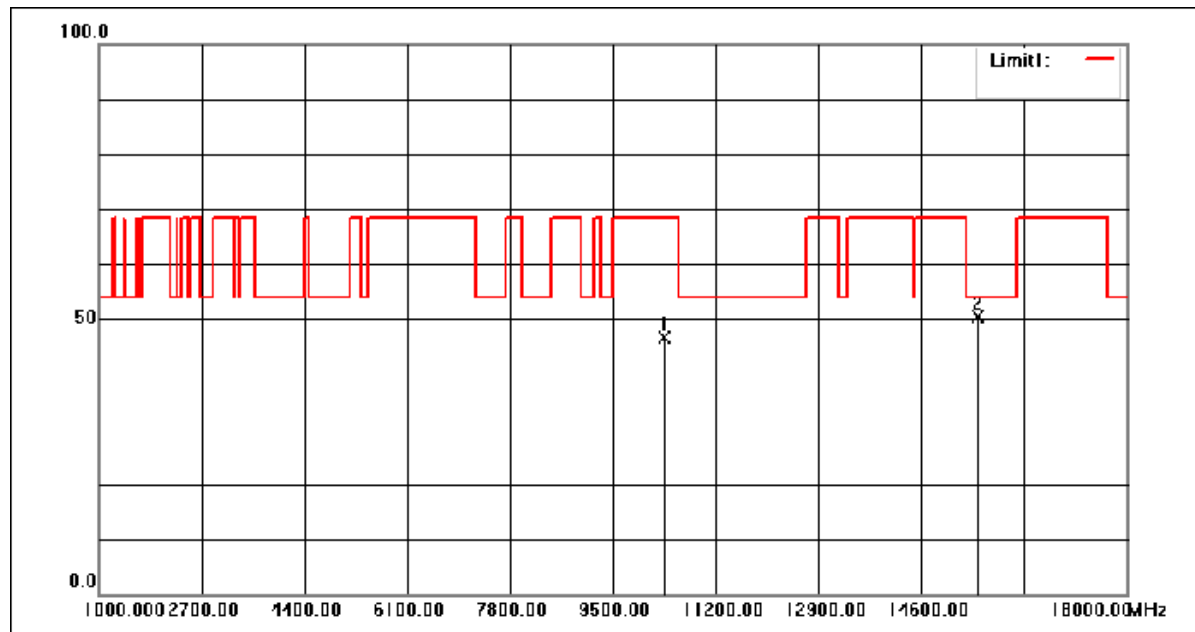
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Mode: g; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	49.33	-2.59	46.74	68.30	-21.56	peak
2	15540.000	50.74	-0.30	50.44	54.00	-3.56	peak



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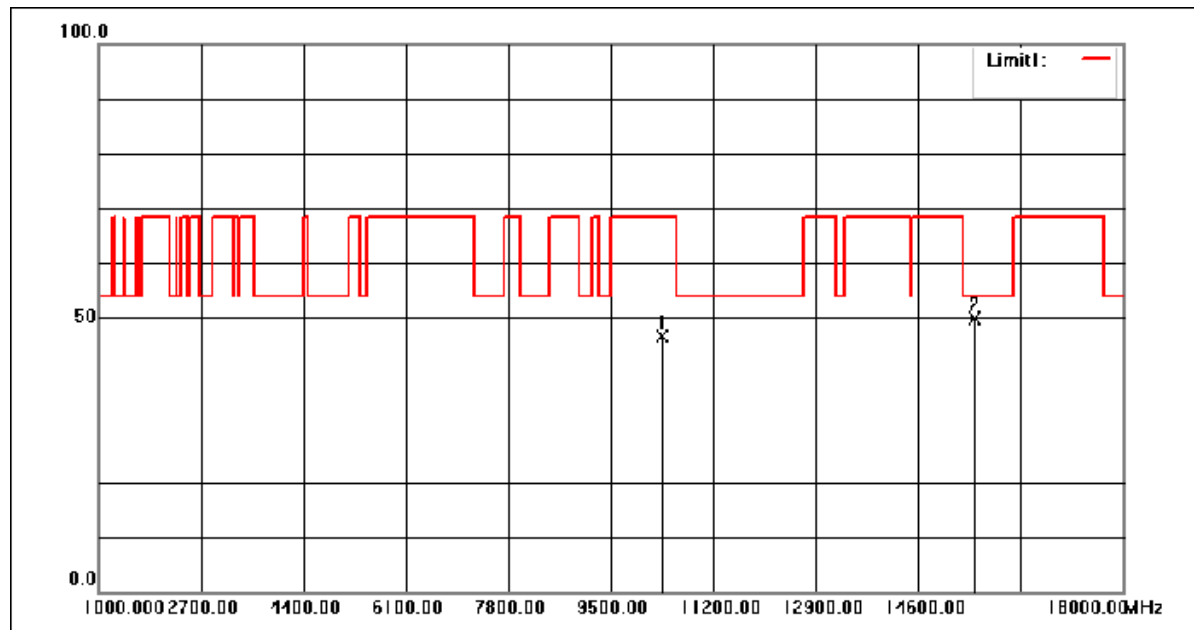
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Mode: g; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	49.17	-2.59	46.58	68.30	-21.72	peak
2	15540.000	50.15	-0.30	49.85	54.00	-4.15	peak



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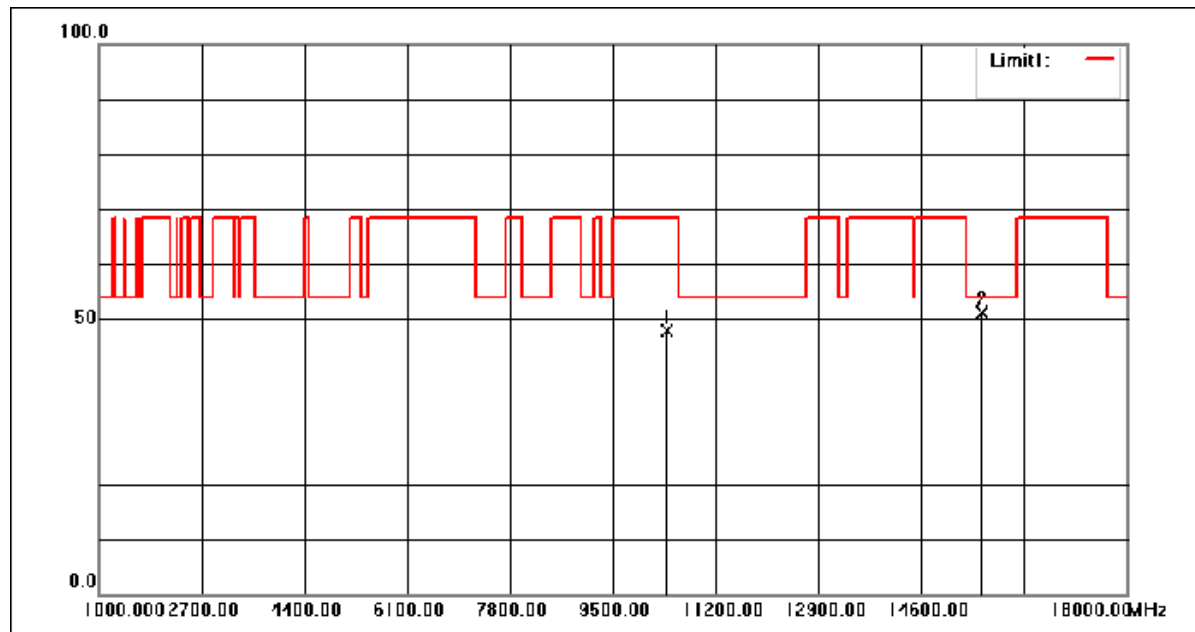
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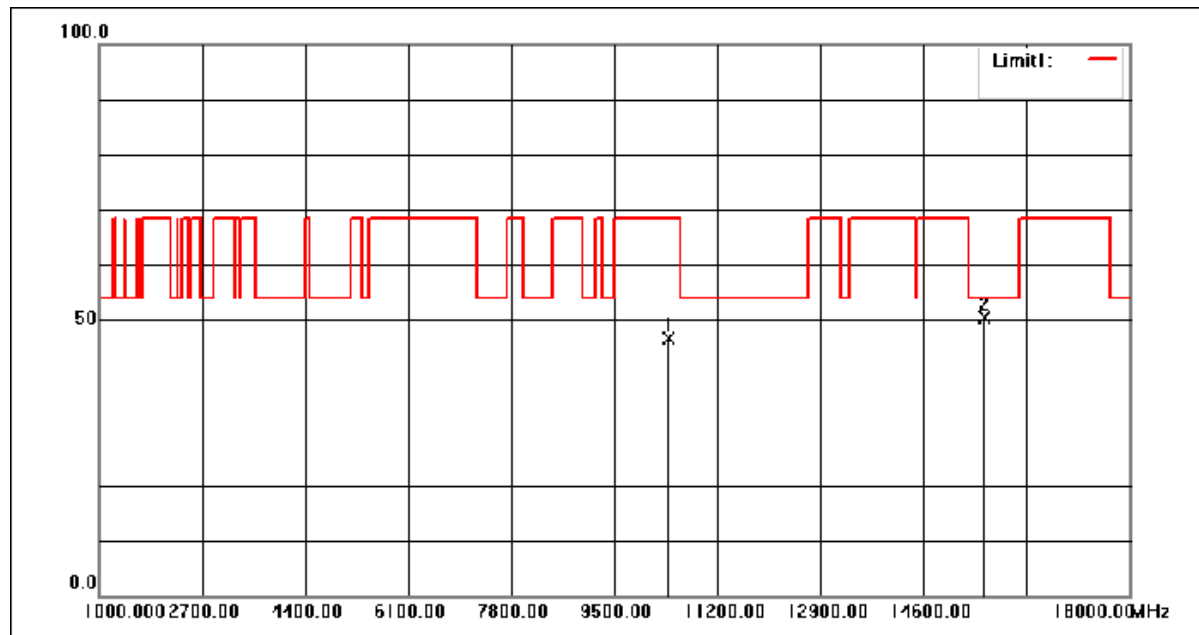
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Mode: g; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10400.000	50.38	-2.53	47.85	68.30	-20.45	peak
2	15600.000	51.37	-0.35	51.02	54.00	-2.98	peak

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10400.000	49.11	-2.53	46.58	68.30	-21.72	peak
2	15600.000	50.82	-0.35	50.47	54.00	-3.53	peak



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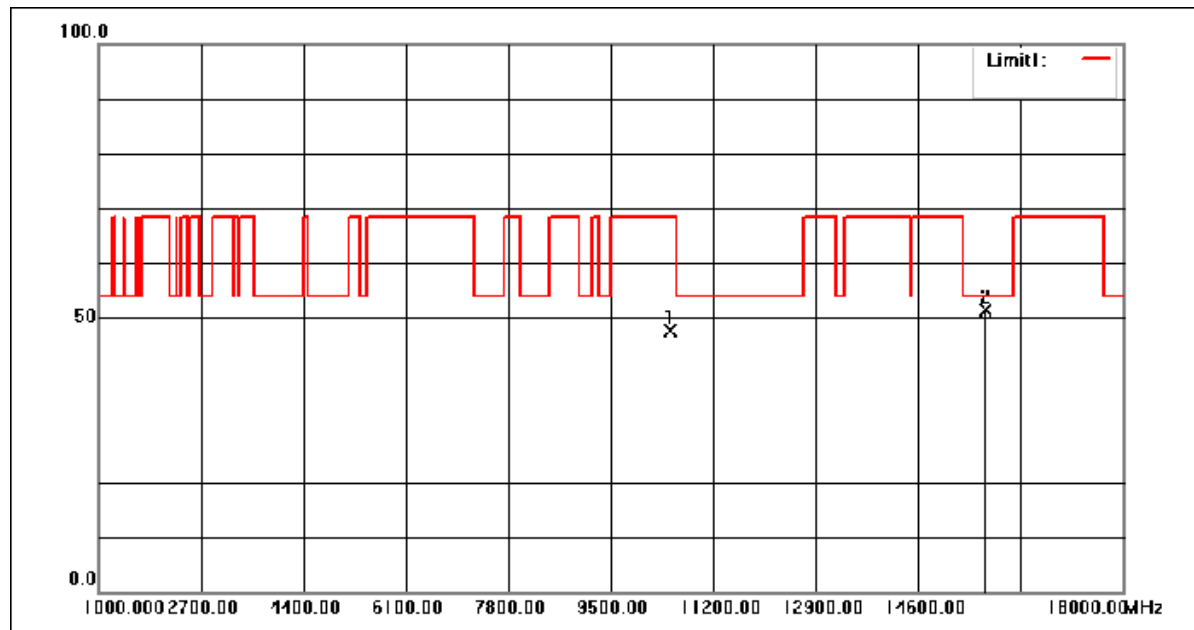
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Mode: g; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	50.00	-2.41	47.59	68.30	-20.71	peak
2	15720.000	51.82	-0.44	51.38	54.00	-2.62	peak



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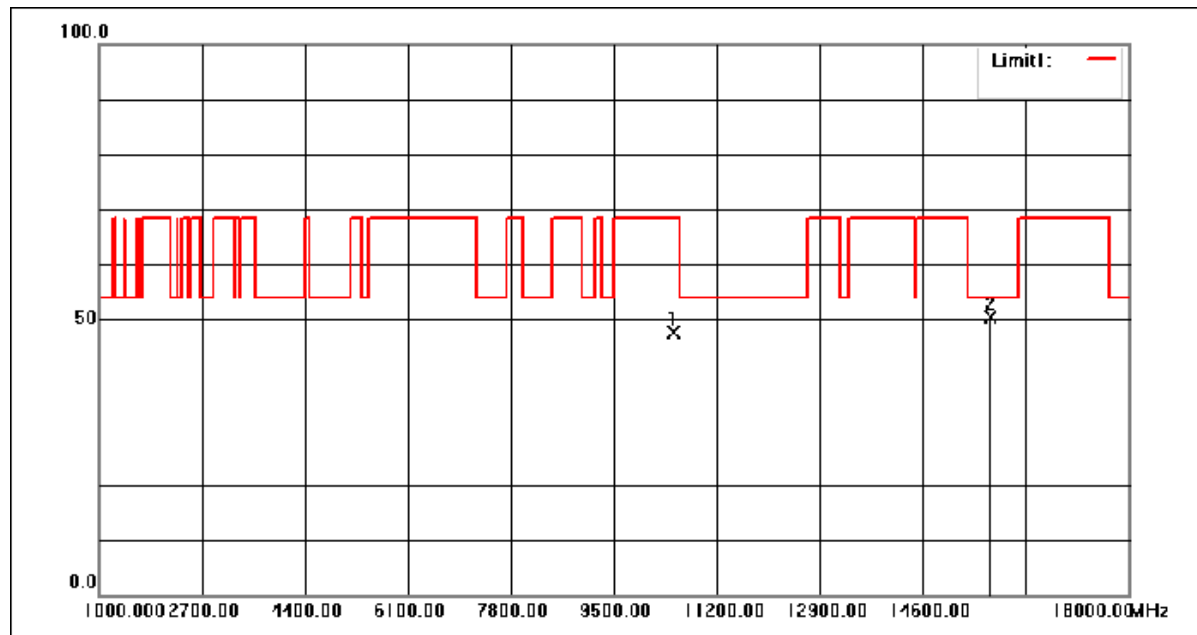
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Mode: g; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	50.09	-2.41	47.68	68.30	-20.62	peak
2	15720.000	50.91	-0.44	50.47	54.00	-3.53	peak



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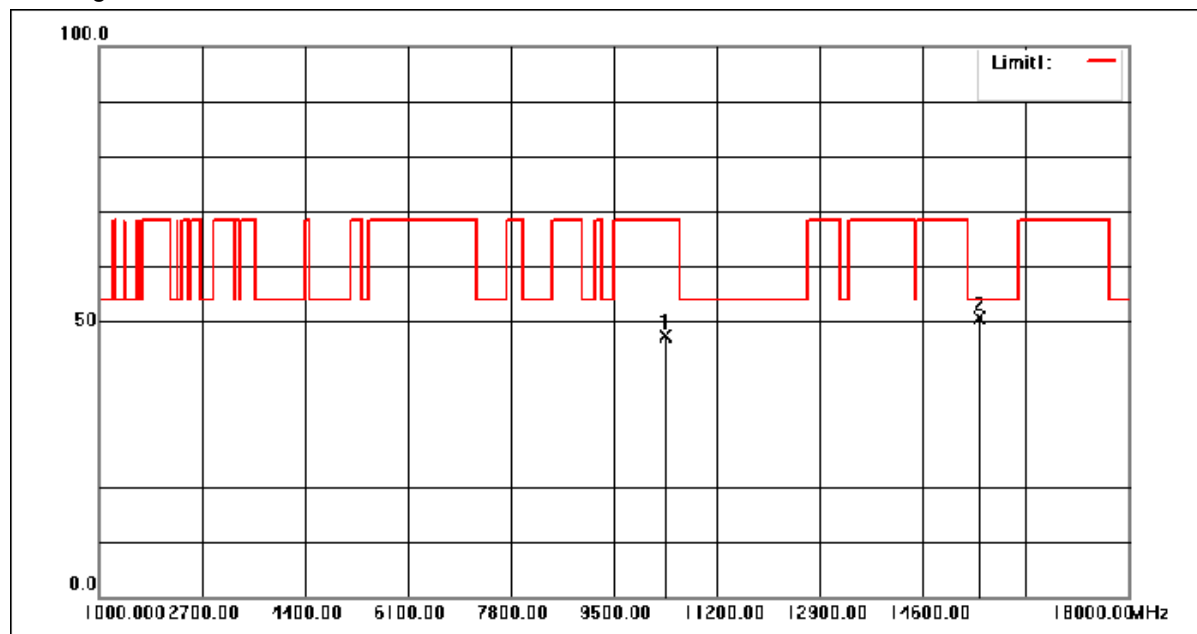
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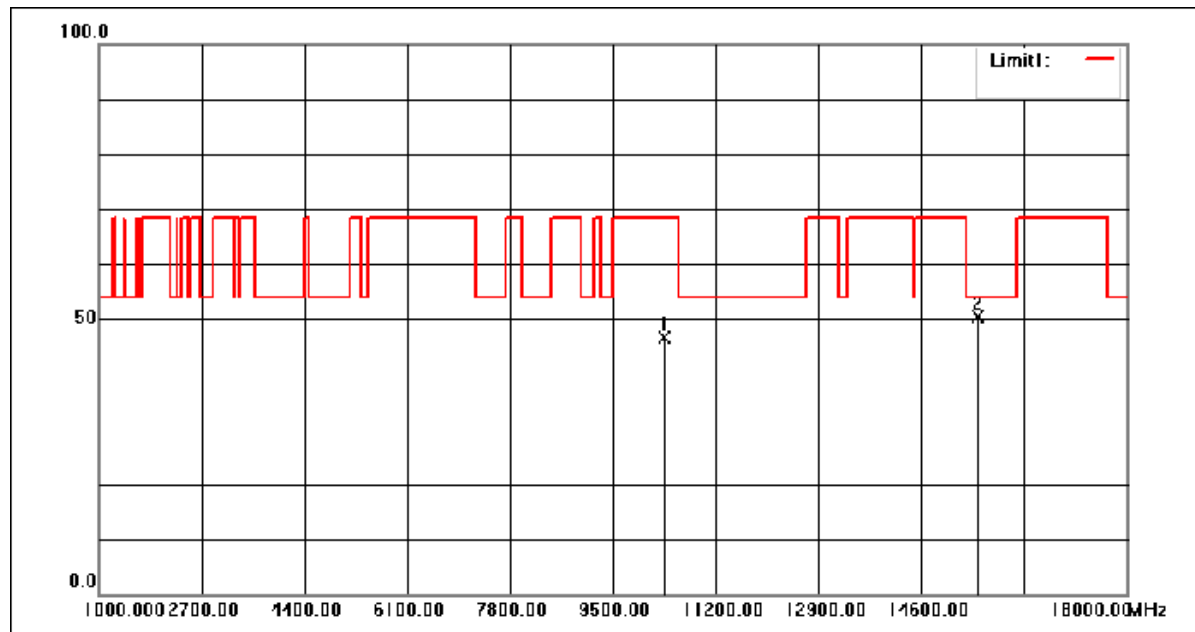
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Mode: g; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	49.87	-2.59	47.28	68.30	-21.02	peak
2	15540.000	51.01	-0.30	50.71	54.00	-3.29	peak

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	49.17	-2.59	46.58	68.30	-21.72	peak
2	15540.000	50.77	-0.30	50.47	54.00	-3.53	peak



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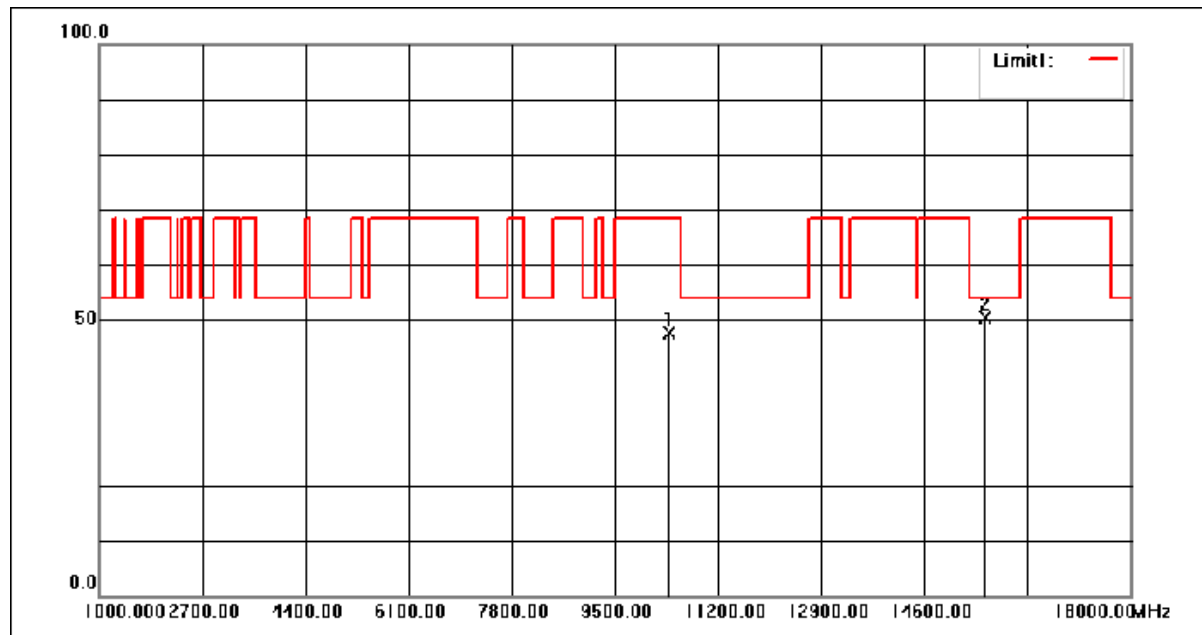
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No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	10400.000	50.11	-2.53	47.58	68.30	-20.72	peak
2	15600.000	50.69	-0.35	50.34	54.00	-3.66	peak



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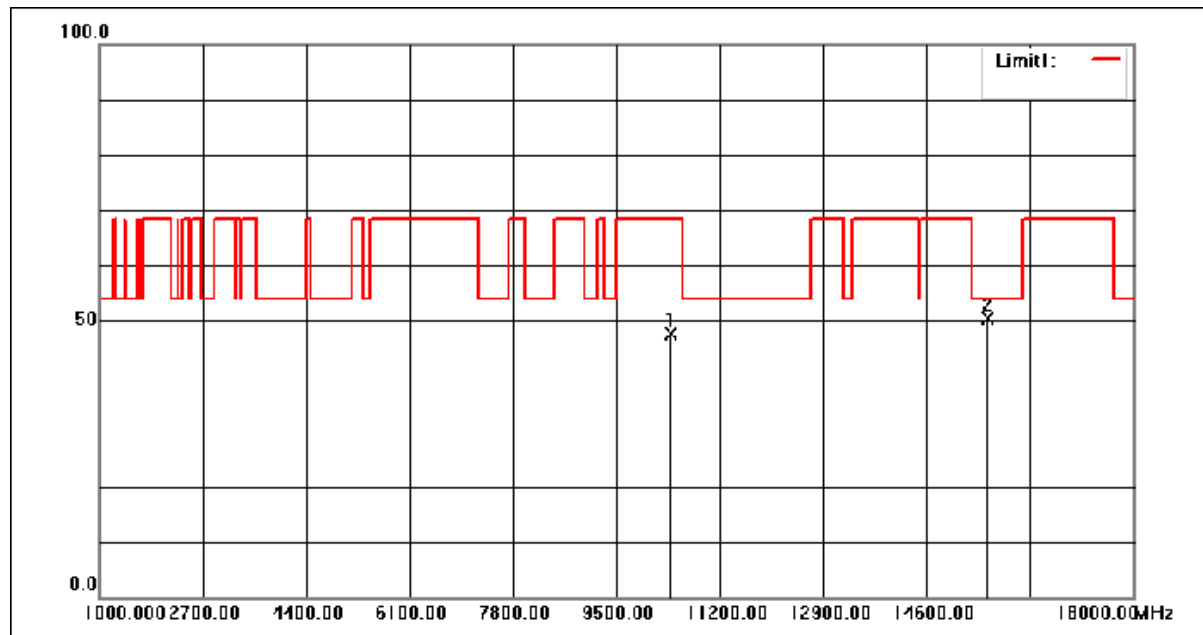
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Mode: g; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10400.000	50.11	-2.53	47.58	68.30	-20.72	peak
2	15600.000	50.83	-0.35	50.48	54.00	-3.52	peak



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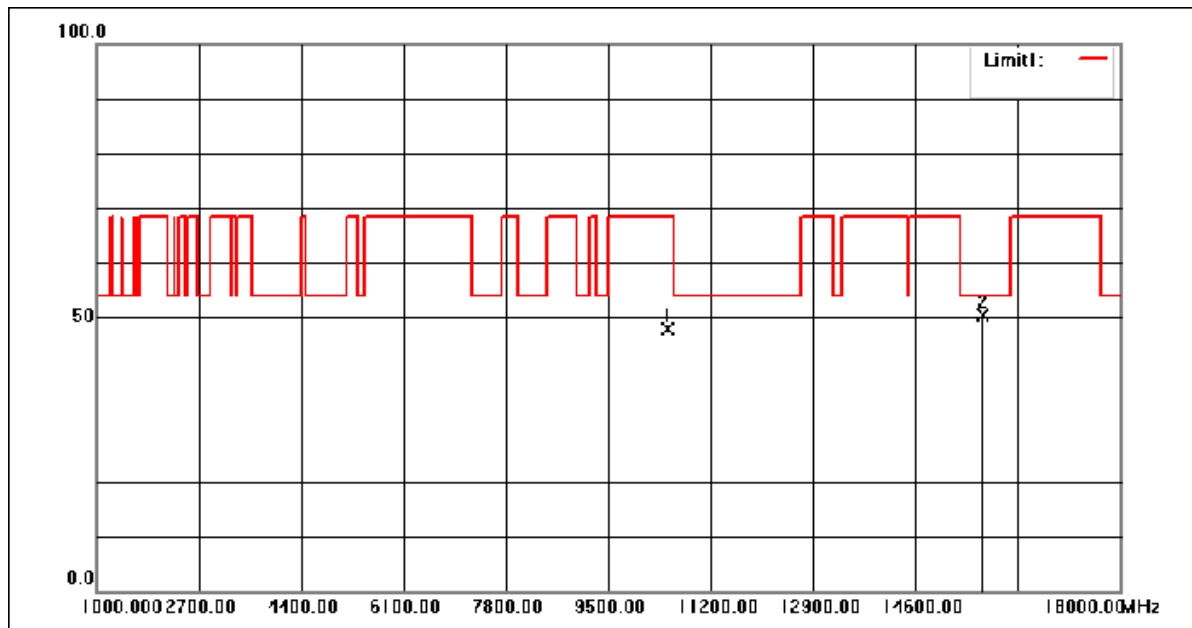
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Mode: g; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	50.23	-2.41	47.82	68.30	-20.48	peak
2	15720.000	50.86	-0.44	50.42	54.00	-3.58	peak



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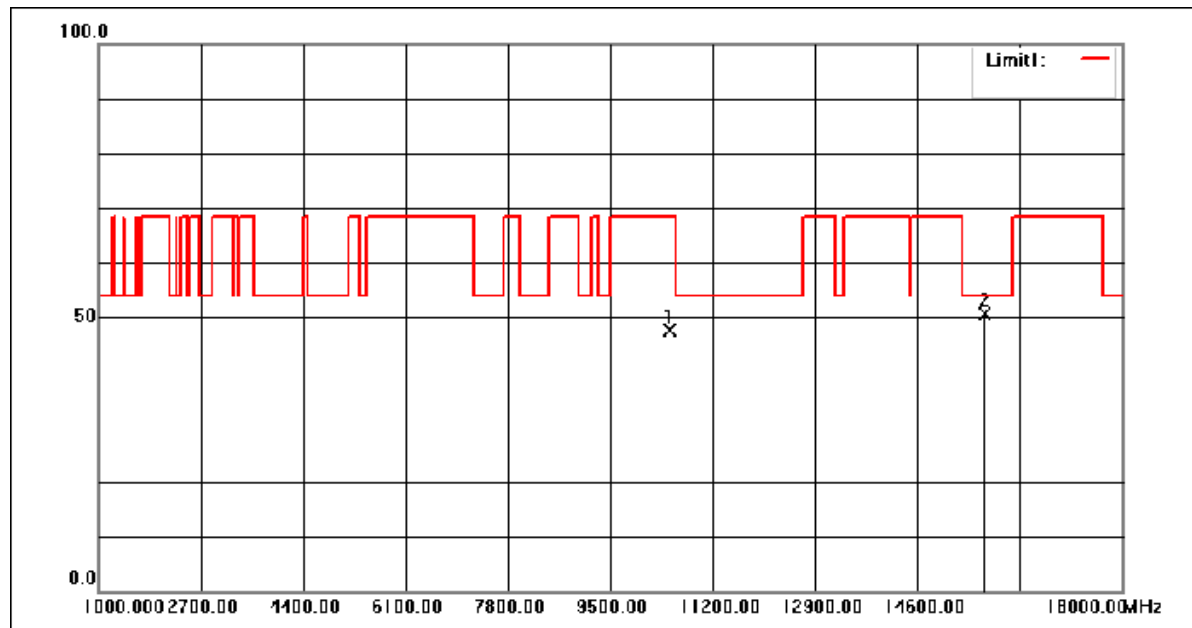
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Mode: g; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	50.00	-2.41	47.59	68.30	-20.71	peak
2	15720.000	51.16	-0.44	50.72	54.00	-3.28	peak



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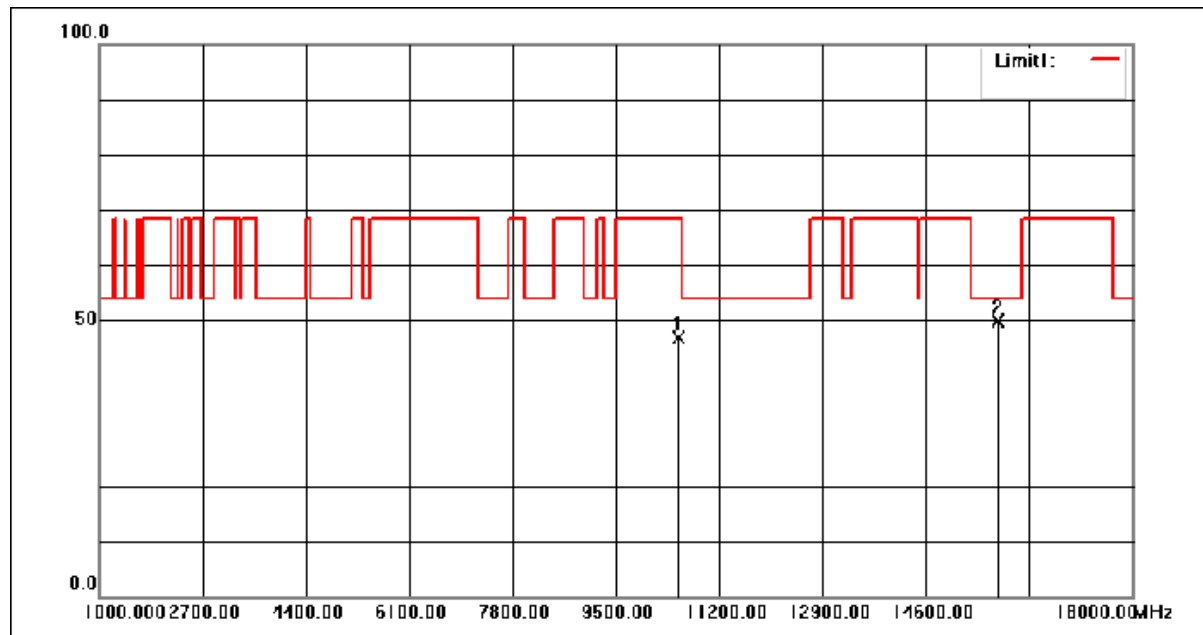
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Mode: h; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	10520.000	49.21	-2.33	46.88	68.30	-21.42	peak
2	15780.000	50.28	-0.49	49.79	54.00	-4.21	peak



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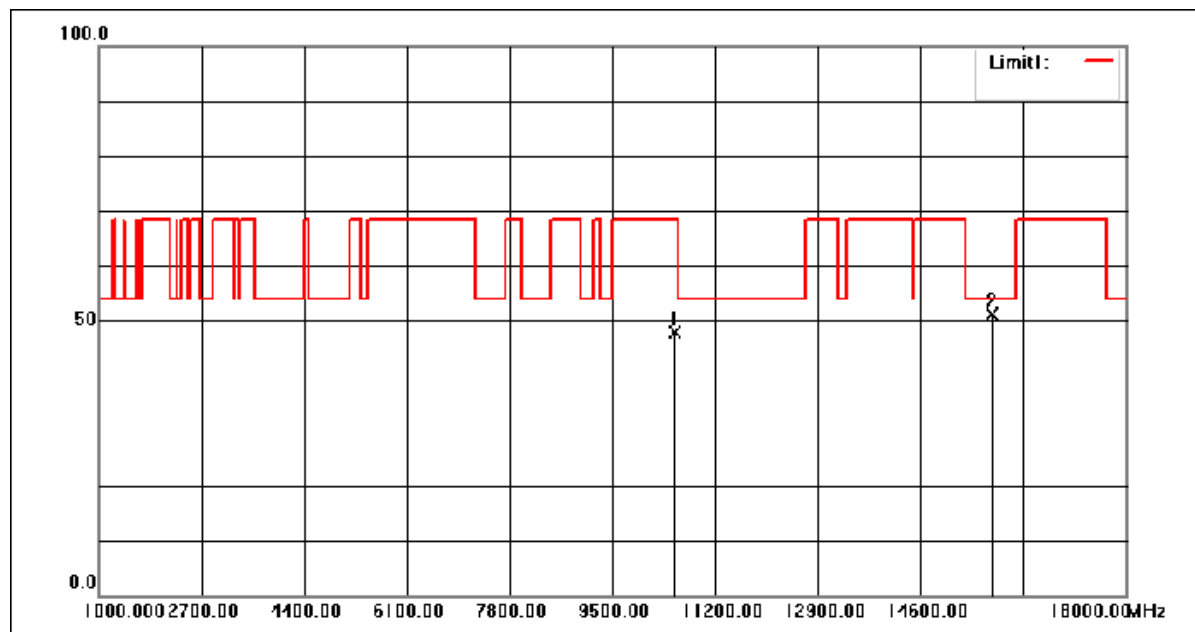
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Mode: h; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	50.15	-2.33	47.82	68.30	-20.48	peak
2	15780.000	51.57	-0.49	51.08	54.00	-2.92	peak



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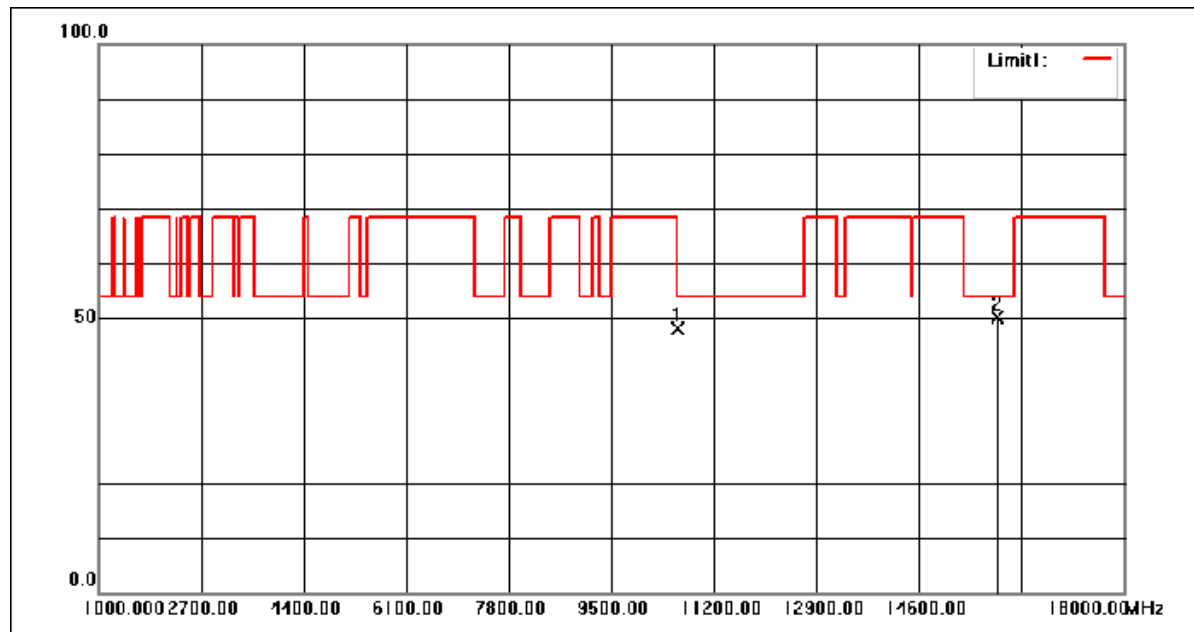
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Mode: h; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	50.14	-2.12	48.02	54.00	-5.98	peak
2	15900.000	50.77	-0.58	50.19	54.00	-3.81	peak



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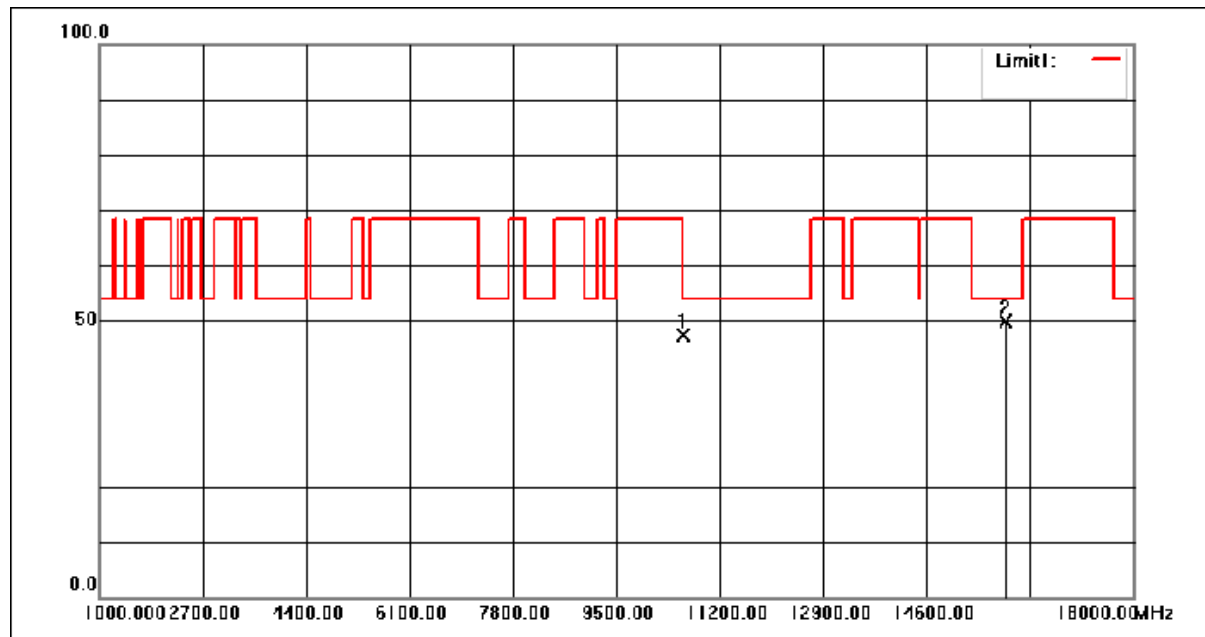
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Mode: h; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	10600.000	49.40	-2.12	47.28	54.00	-6.72	peak
2	15900.000	50.55	-0.58	49.97	54.00	-4.03	peak



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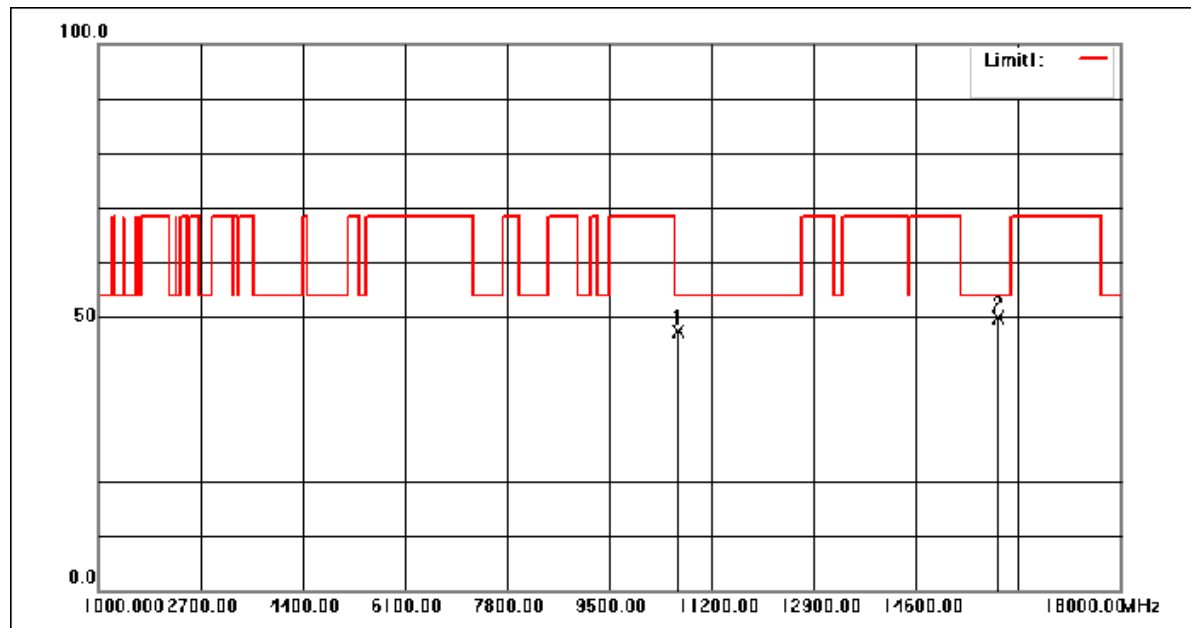
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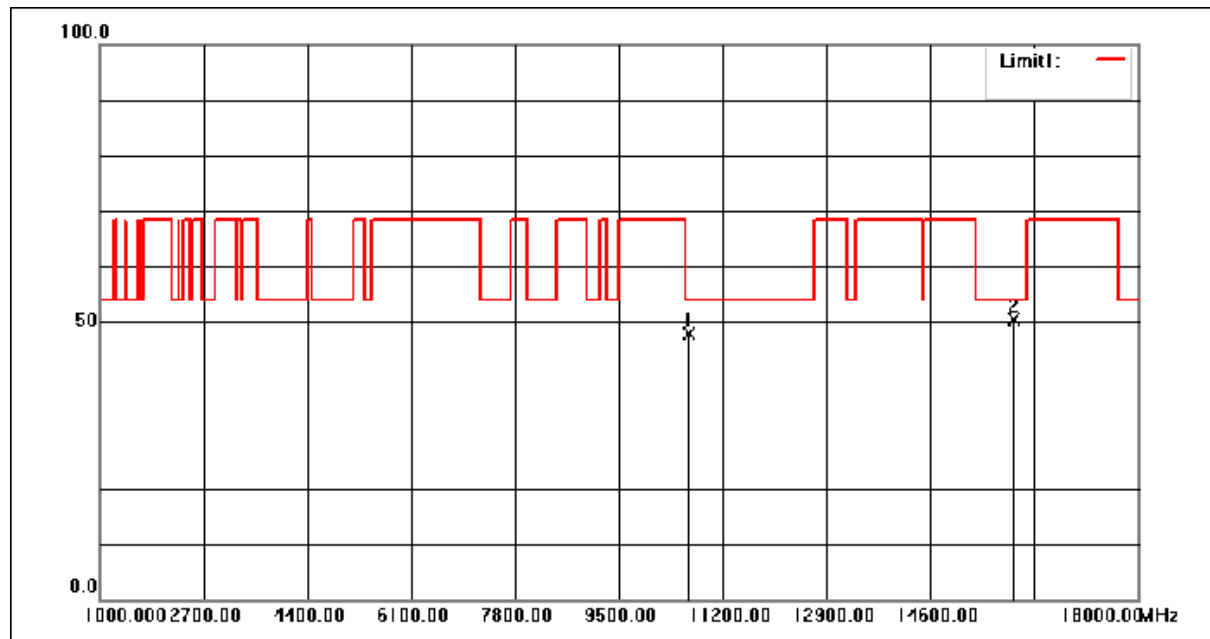
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Mode: h; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: High



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	50.42	-0.63	49.79	54.00	-4.21	peak

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	49.86	-2.01	47.85	54.00	-6.15	peak
2	15960.000	50.97	-0.63	50.34	54.00	-3.66	peak



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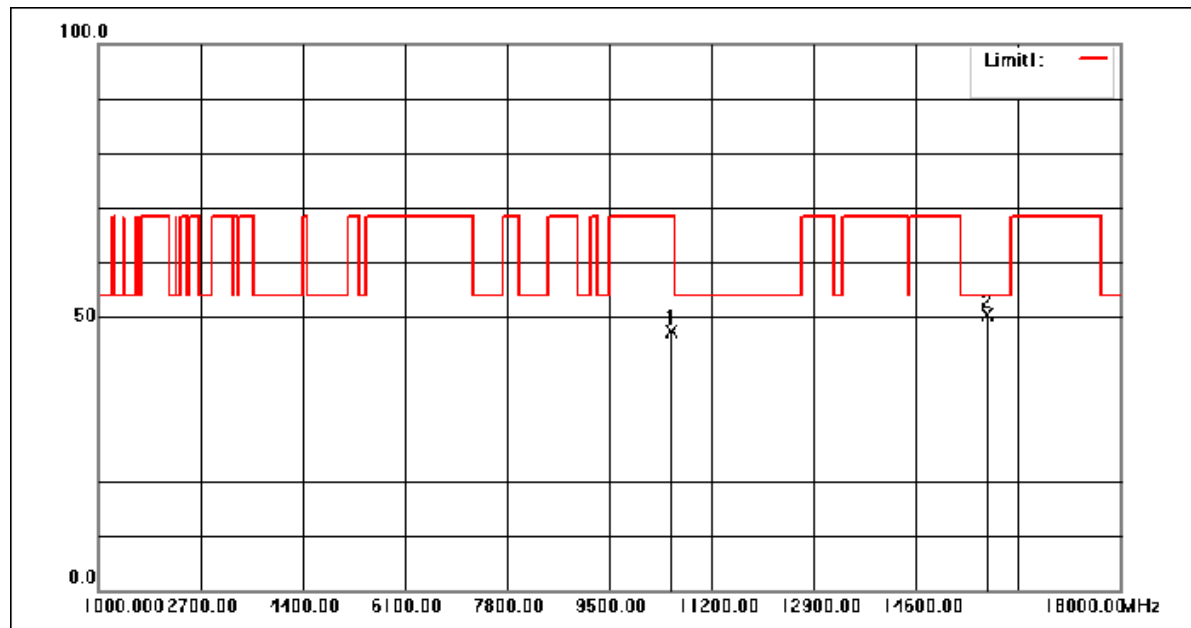
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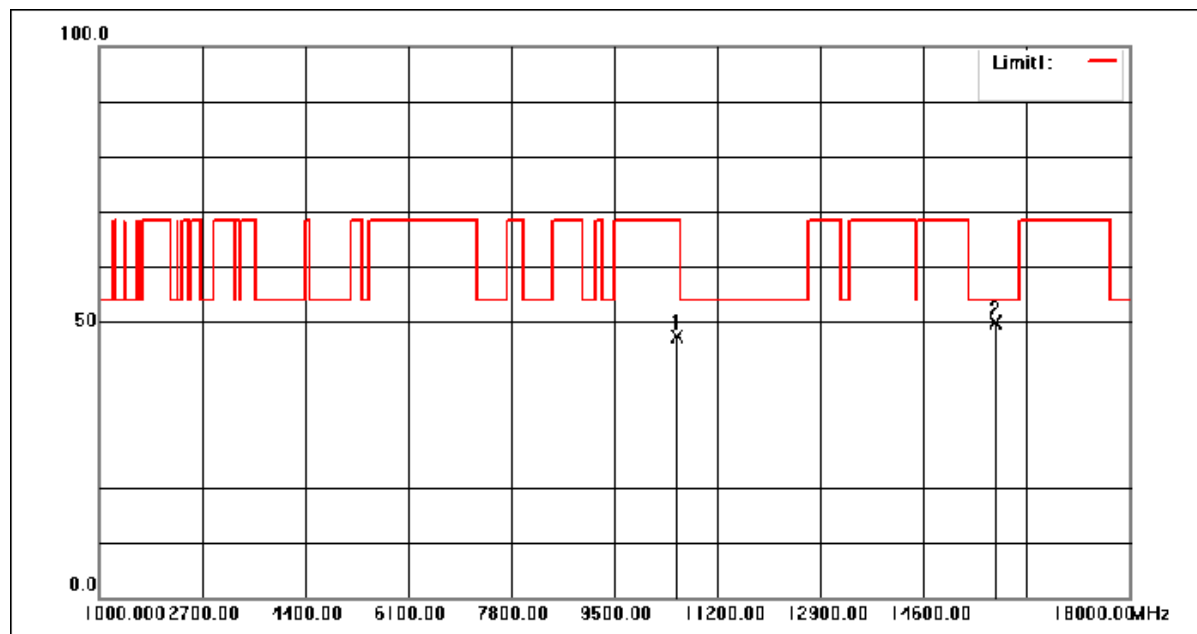
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Mode: h; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	49.61	-2.33	47.28	68.30	-21.02	peak
2	15780.000	50.97	-0.49	50.48	54.00	-3.52	peak

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	49.61	-2.33	47.28	68.30	-21.02	peak
2	15780.000	50.40	-0.49	49.91	54.00	-4.09	peak



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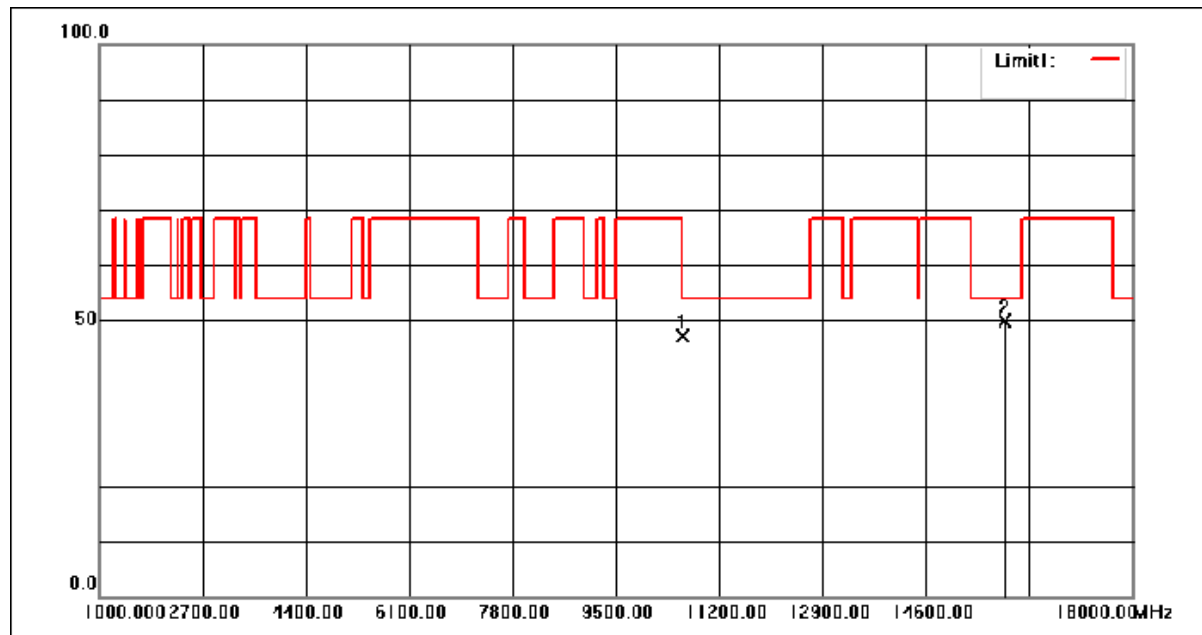
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No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	10600.000	49.33	-2.12	47.21	54.00	-6.79	peak
2	15900.000	50.43	-0.58	49.85	54.00	-4.15	peak



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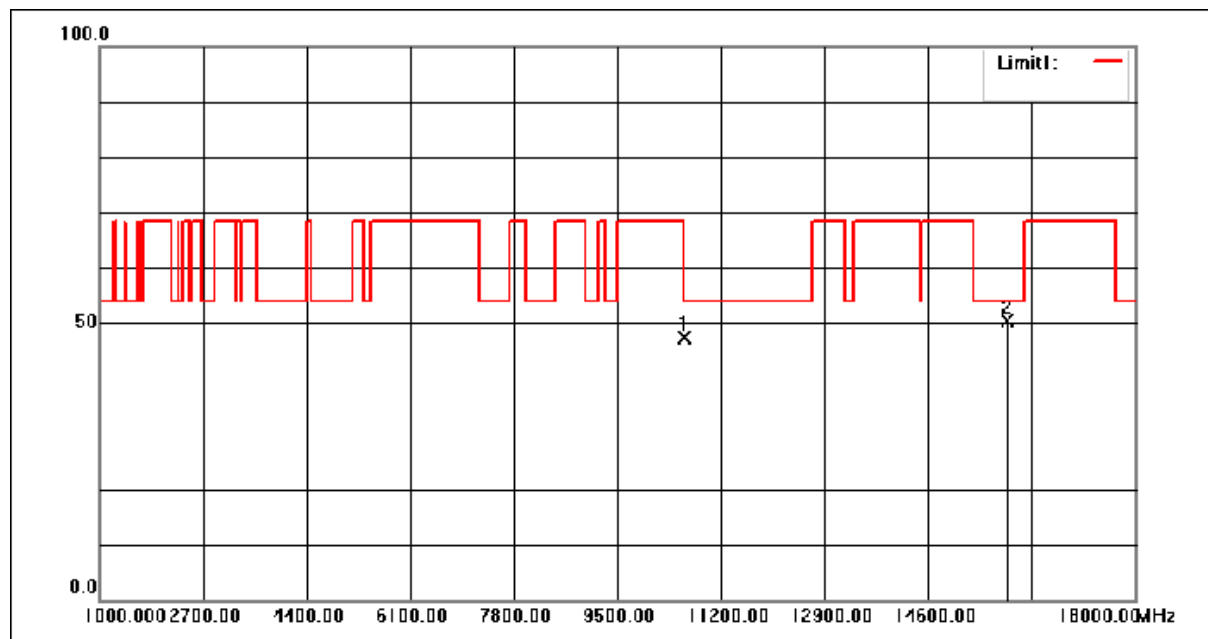
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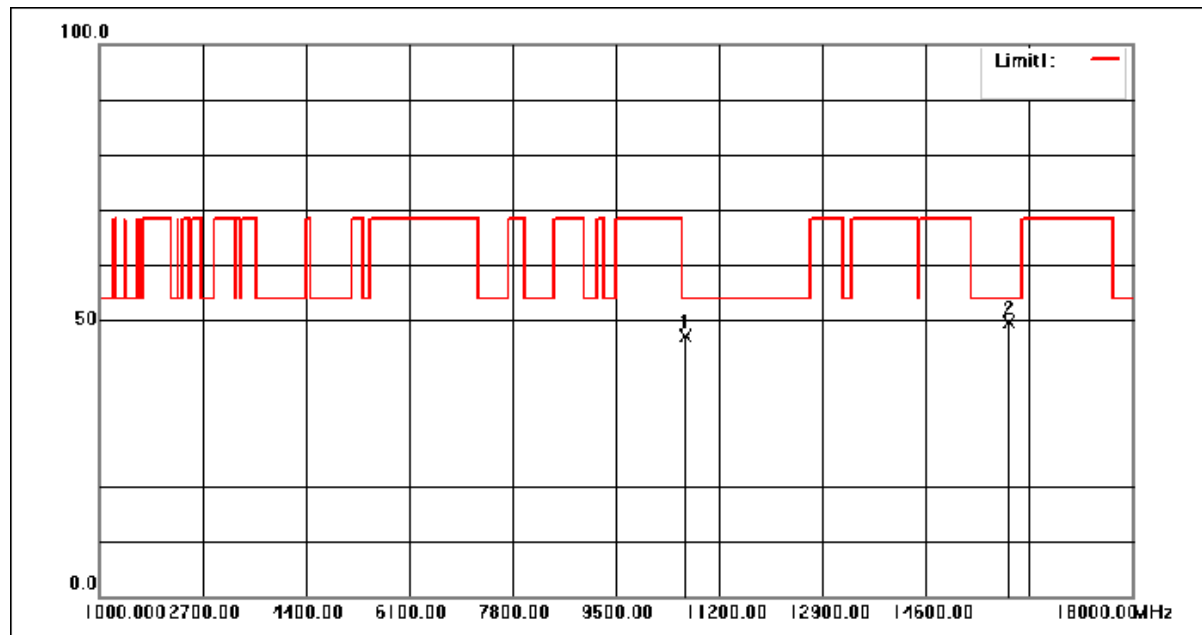
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	49.40	-2.12	47.28	54.00	-6.72	peak
2	15900.000	50.99	-0.58	50.41	54.00	-3.59	peak

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



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	50.30	-0.63	49.67	54.00	-4.33	peak



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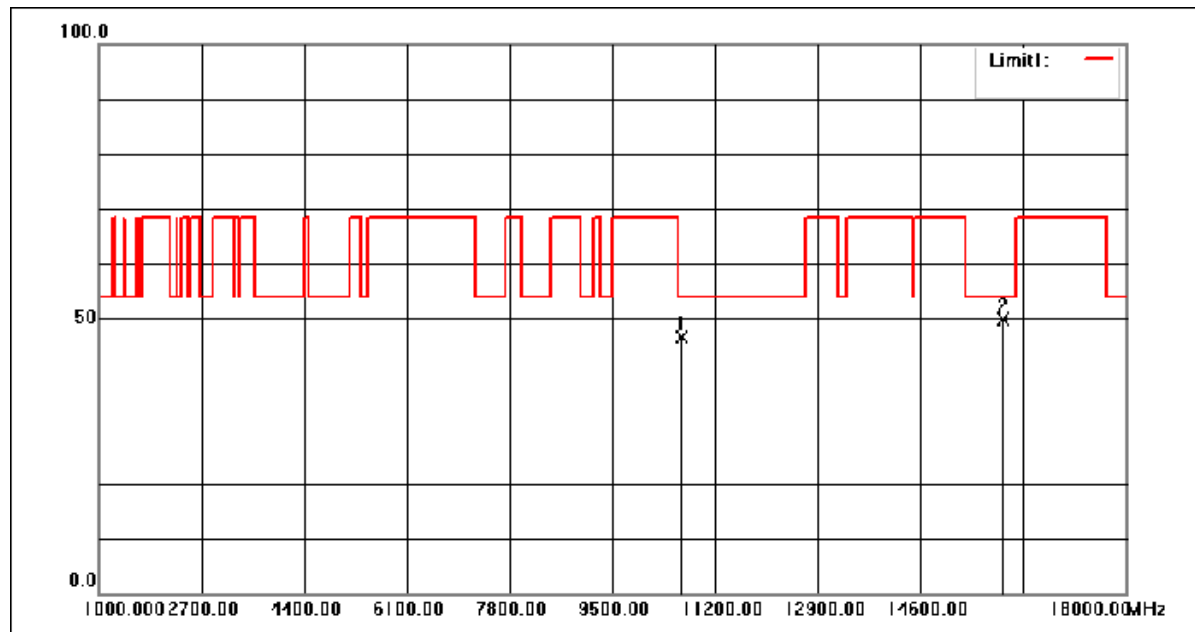
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	48.59	-2.01	46.58	54.00	-7.42	peak
2	15960.000	50.59	-0.63	49.96	54.00	-4.04	peak



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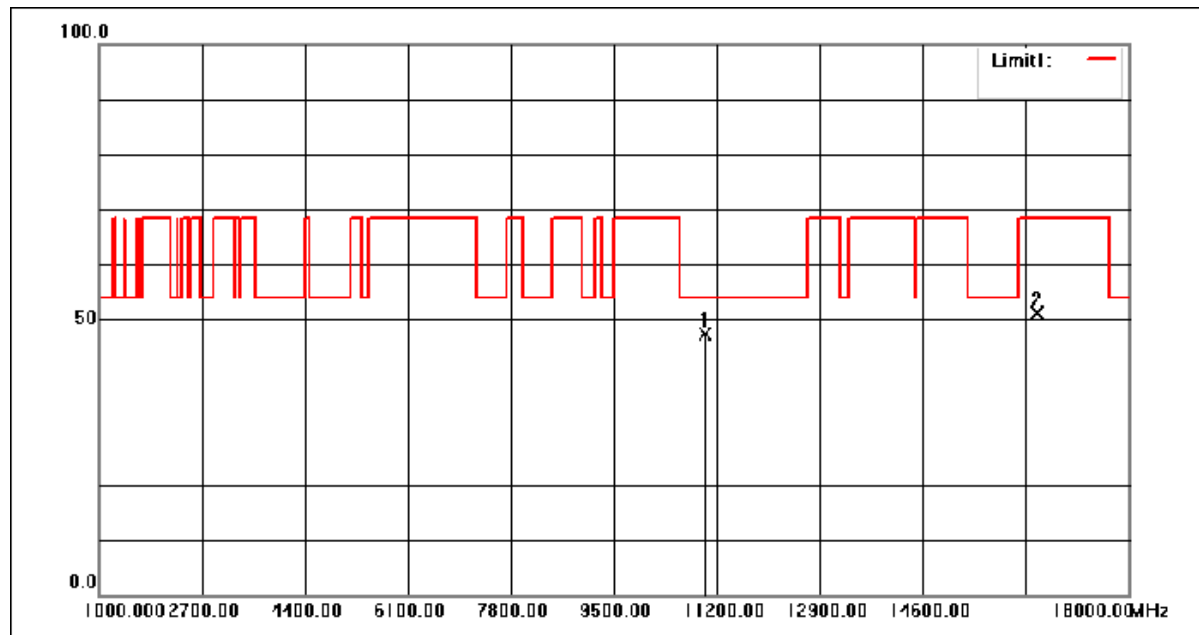
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Mode: i; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	48.45	-1.07	47.38	54.00	-6.62	peak
2	16500.000	50.76	0.28	51.04	68.30	-17.26	peak



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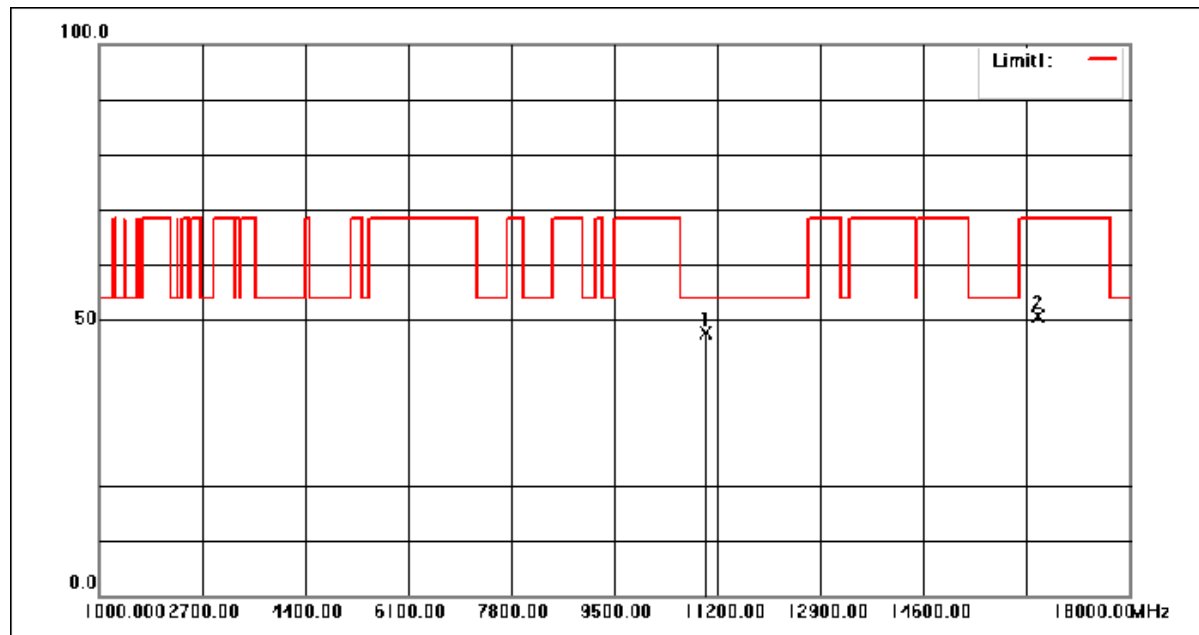
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No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	11000.000	48.75	-1.07	47.68	54.00	-6.32	peak
2	16500.000	50.40	0.28	50.68	68.30	-17.62	peak



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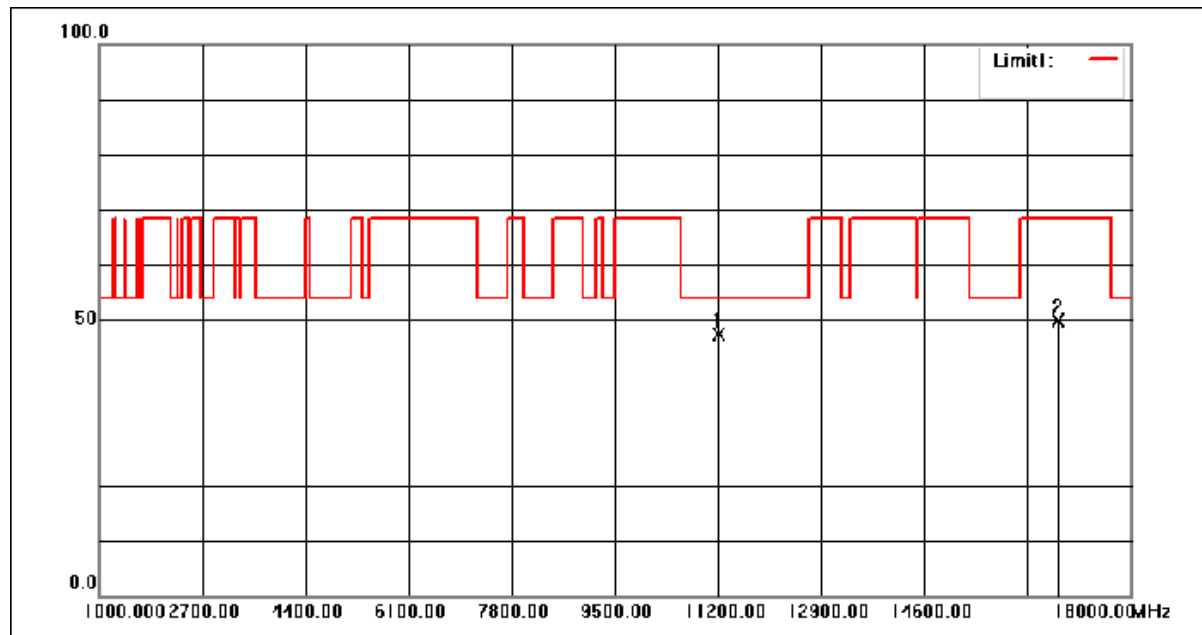
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Mode: i; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	11200.000	48.93	-1.55	47.38	54.00	-6.62	peak
2	16800.000	49.70	0.11	49.81	68.30	-18.49	peak



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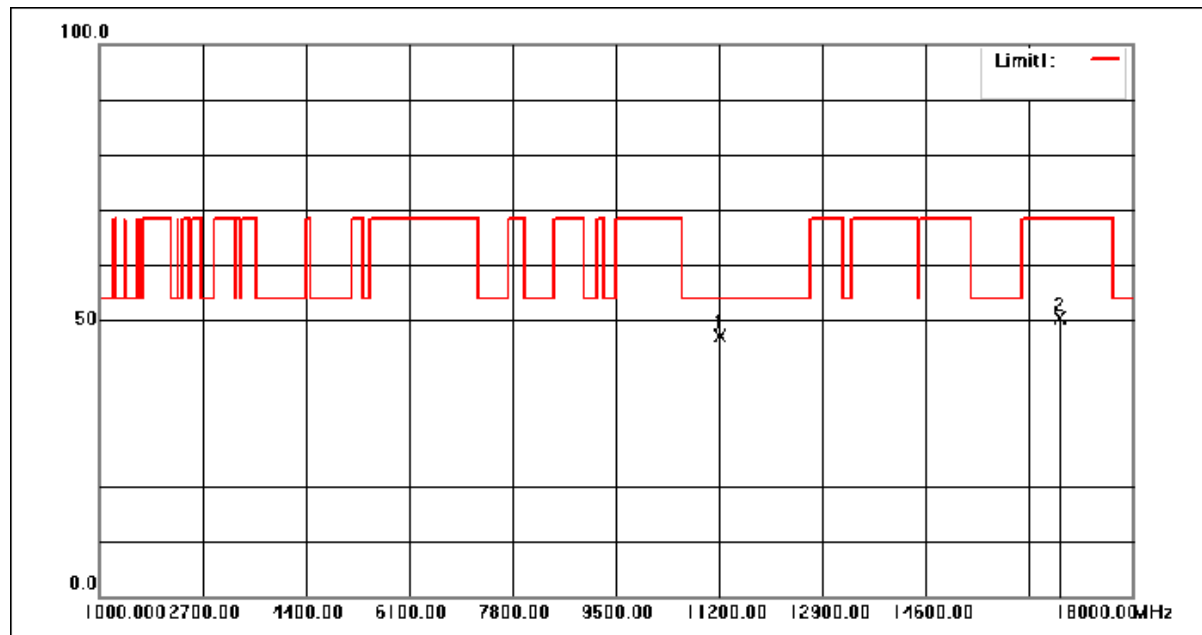
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Mode: i; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11200.000	48.61	-1.55	47.06	54.00	-6.94	peak
2	16800.000	50.31	0.11	50.42	68.30	-17.88	peak



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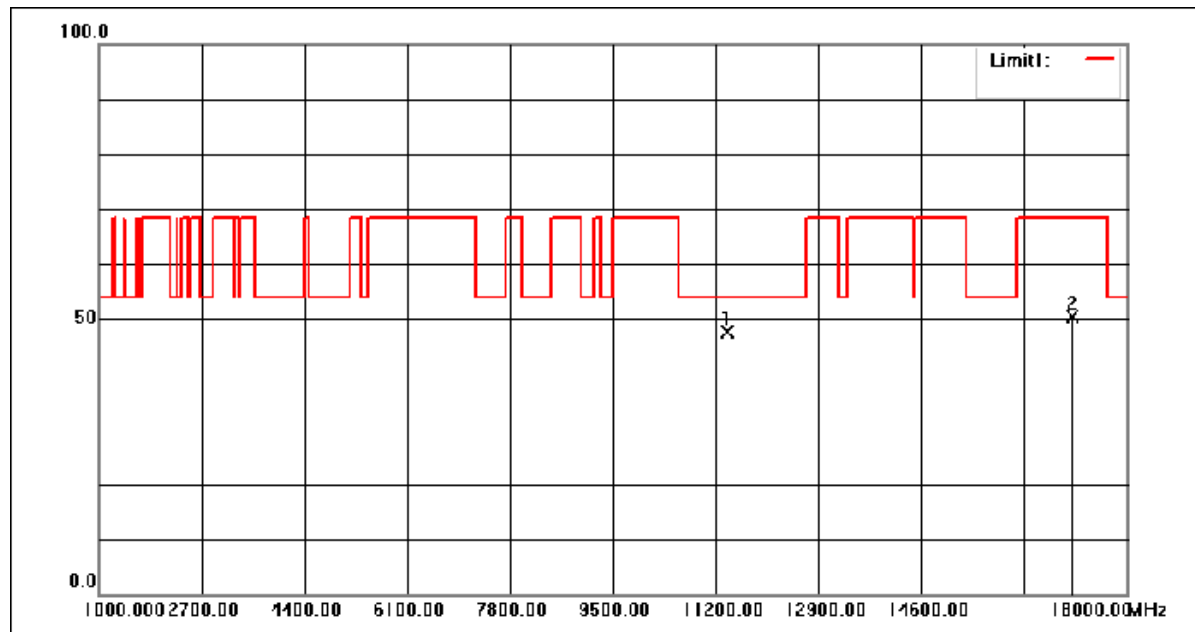
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Mode: i; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	49.61	-2.02	47.59	54.00	-6.41	peak
2	17100.000	50.46	-0.08	50.38	68.30	-17.92	peak



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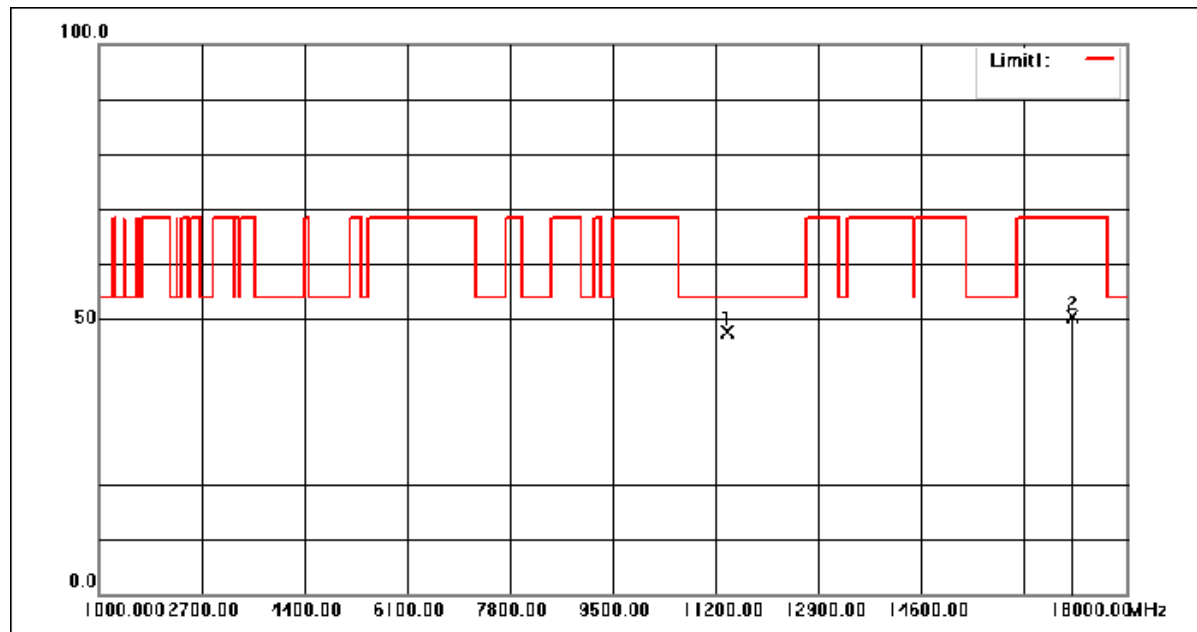
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	49.67	-2.02	47.65	54.00	-6.35	peak
2	17100.000	50.52	-0.08	50.44	68.30	-17.86	peak



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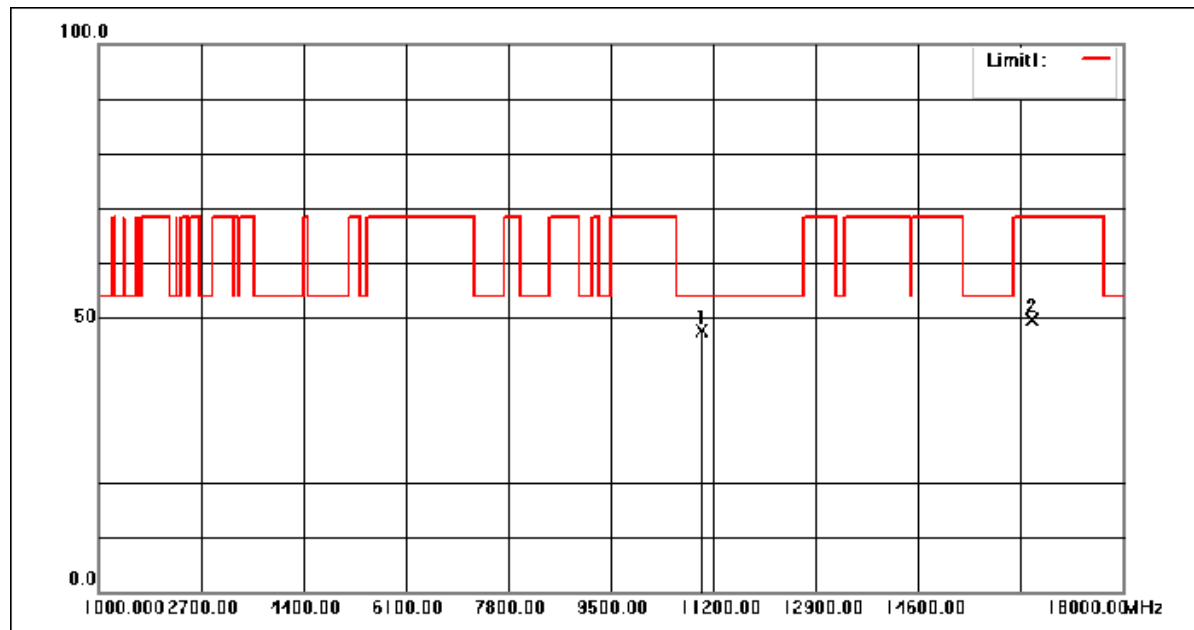
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Mode: i; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	48.62	-1.07	47.55	54.00	-6.45	peak
2	16500.000	49.33	0.28	49.61	68.30	-18.69	peak



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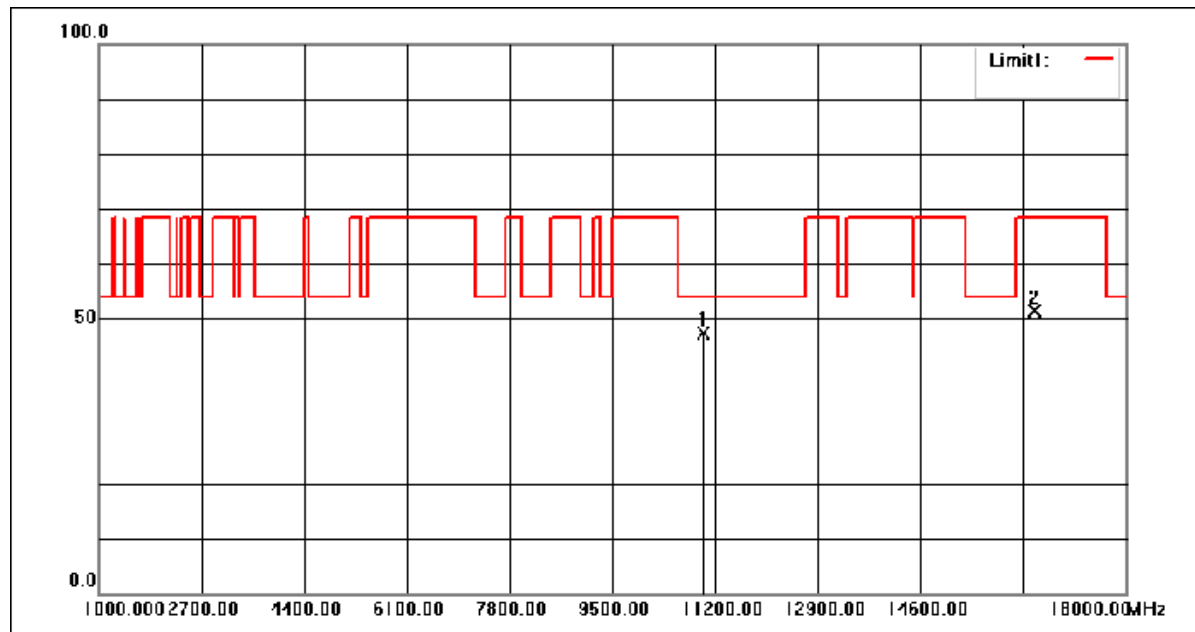
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No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	48.42	-1.07	47.35	54.00	-6.65	peak
2	16500.000	51.00	0.28	51.28	68.30	-17.02	peak



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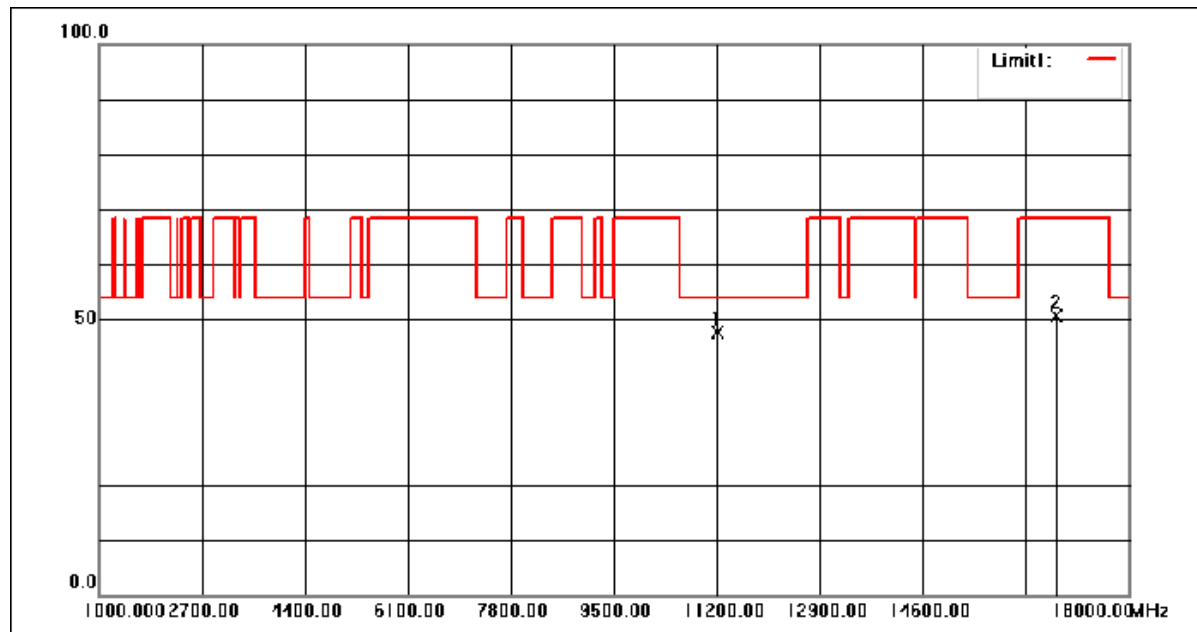
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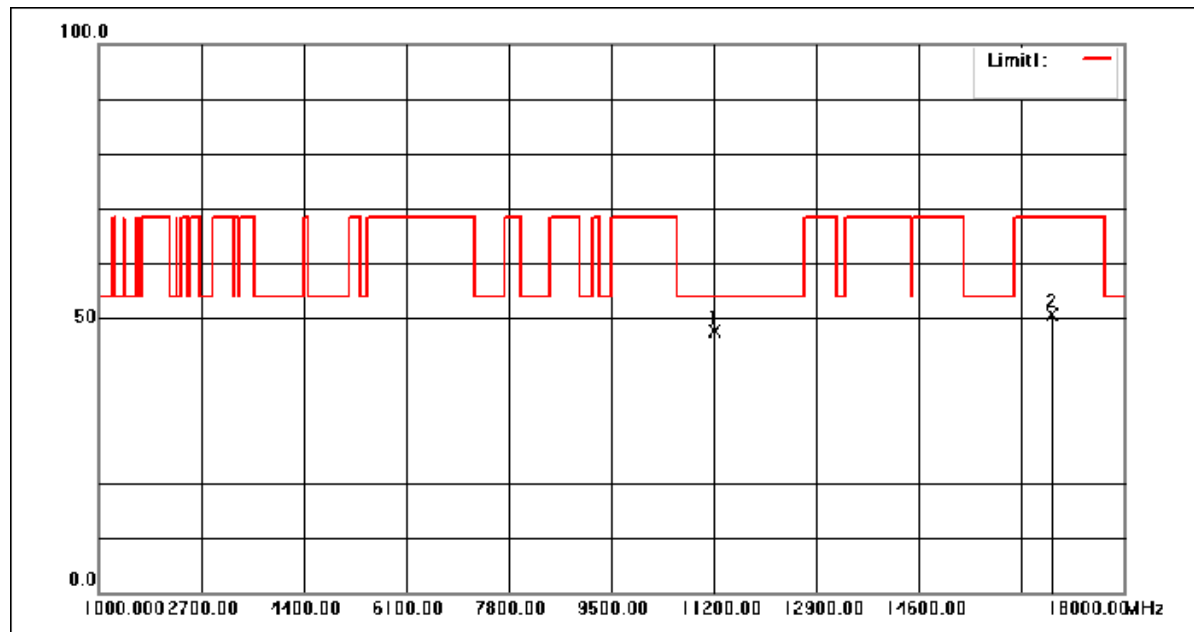
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Mode: i; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: middle



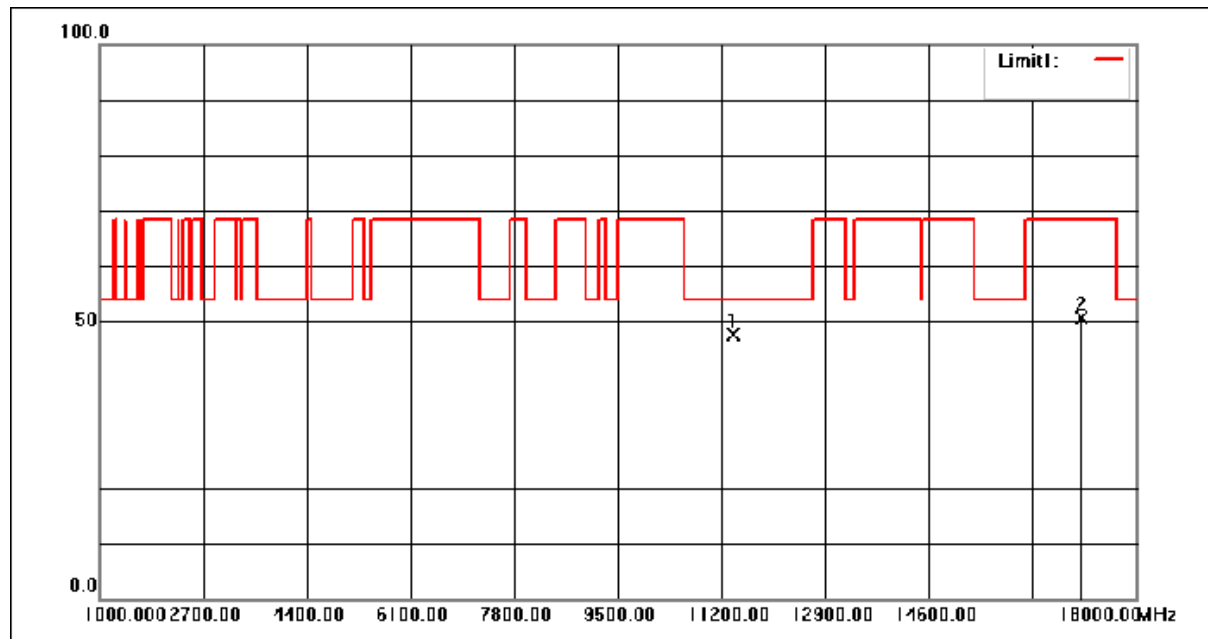
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1	11200.000	49.13	-1.55	47.58	54.00	-6.42	peak
2	16800.000	50.53	0.11	50.64	68.30	-17.66	peak

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



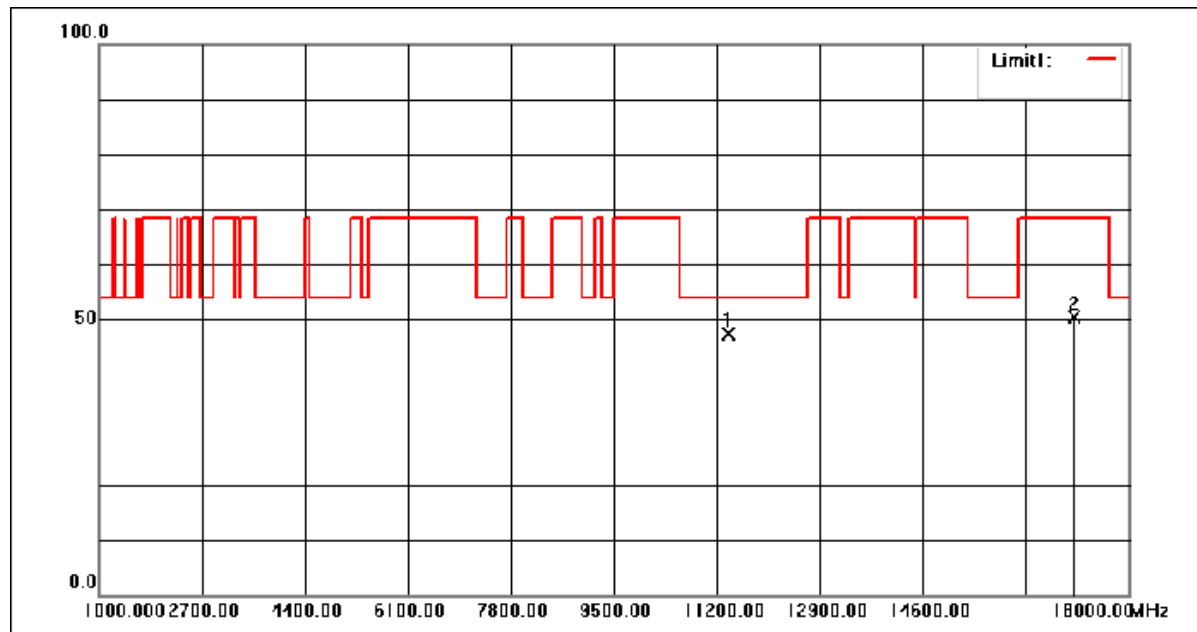
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11200.000	49.23	-1.55	47.68	54.00	-6.32	peak
2	16800.000	50.57	0.11	50.68	68.30	-17.62	peak

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	49.61	-2.02	47.59	54.00	-6.41	peak
2	17100.000	50.70	-0.08	50.62	68.30	-17.68	peak

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	49.30	-2.02	47.28	54.00	-6.72	peak
2	17100.000	50.42	-0.08	50.34	68.30	-17.96	peak



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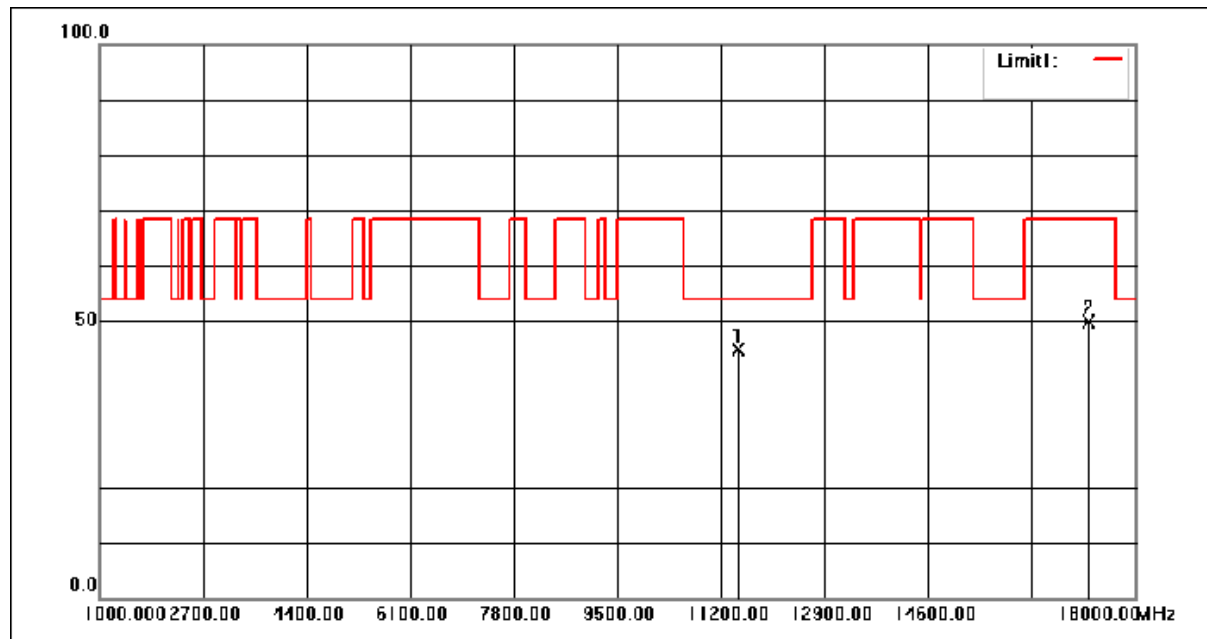
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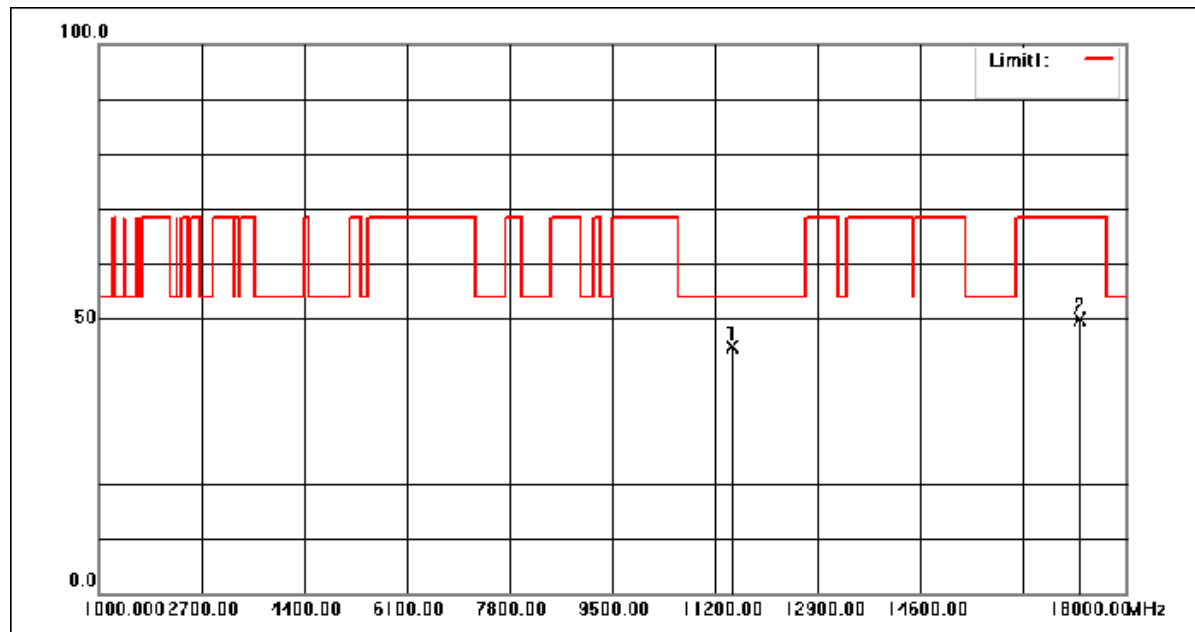
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Mode: j; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	11490.000	47.22	-2.24	44.98	54.00	-9.02	peak
2	17235.000	50.17	-0.19	49.98	68.30	-18.32	peak

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11490.000	47.22	-2.24	44.98	54.00	-9.02	peak
2	17235.000	50.06	-0.19	49.87	68.30	-18.43	peak



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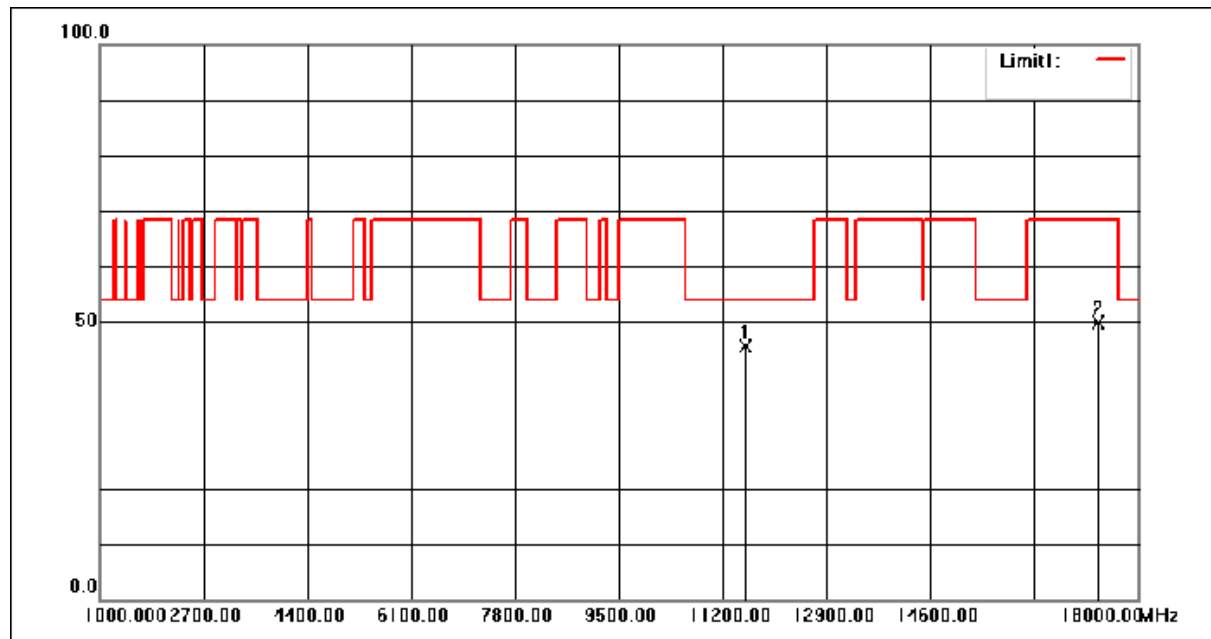
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Mode: j; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	47.96	-2.33	45.63	54.00	-8.37	peak
2	17355.000	50.12	-0.29	49.83	68.30	-18.47	peak



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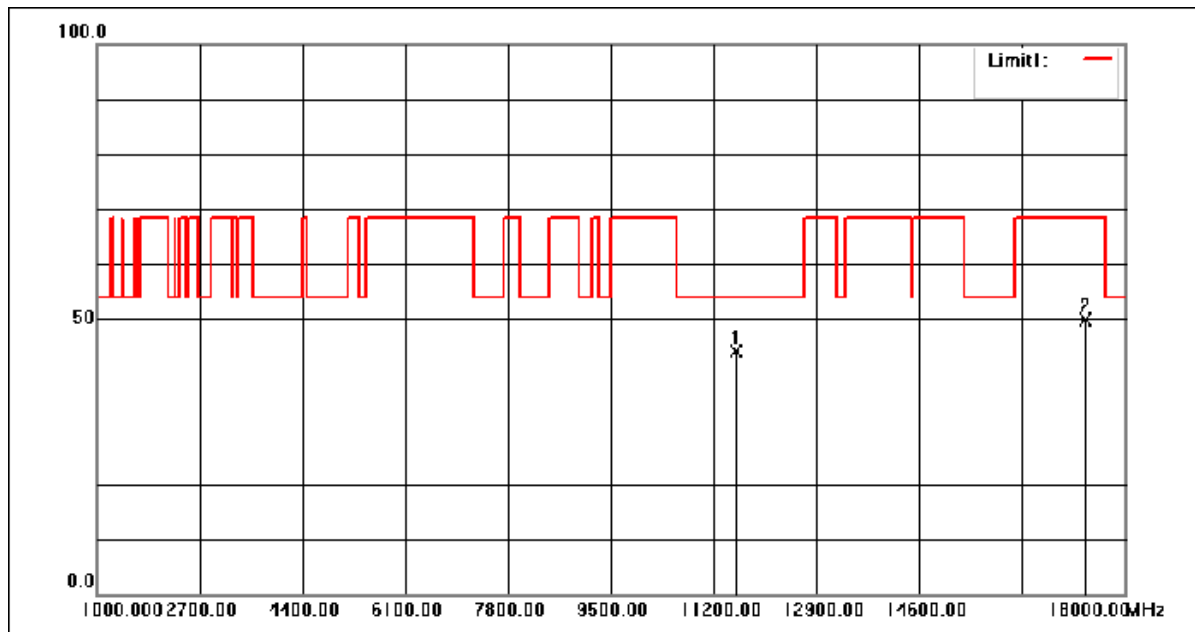
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Mode: j; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	46.37	-2.33	44.04	54.00	-9.96	peak
2	17355.000	50.27	-0.29	49.98	68.30	-18.32	peak



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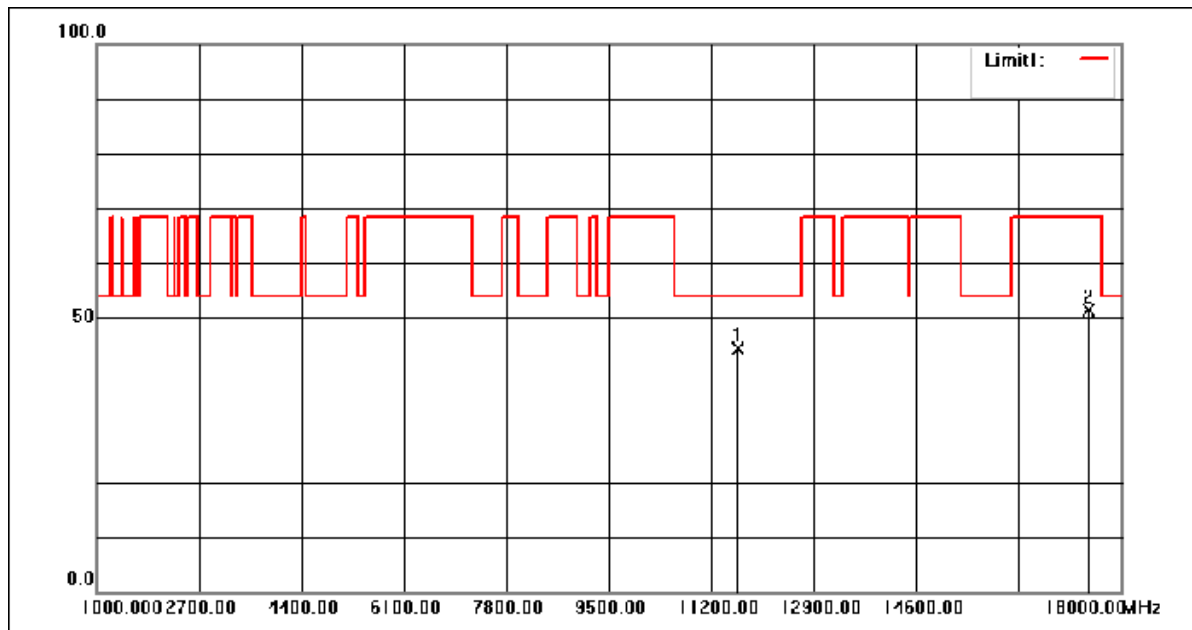
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Mode: j; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	46.73	-2.40	44.33	54.00	-9.67	peak
2	17475.000	51.76	-0.39	51.37	68.30	-16.93	peak



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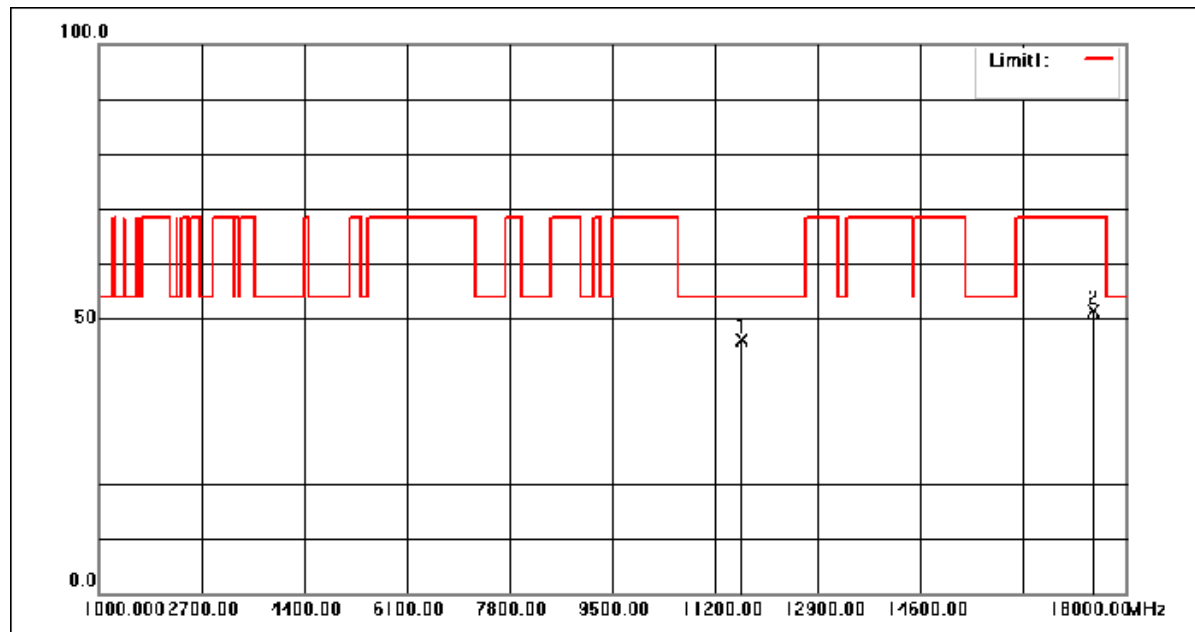
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Mode: j; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	48.54	-2.40	46.14	54.00	-7.86	peak
2	17475.000	51.78	-0.39	51.39	68.30	-16.91	peak



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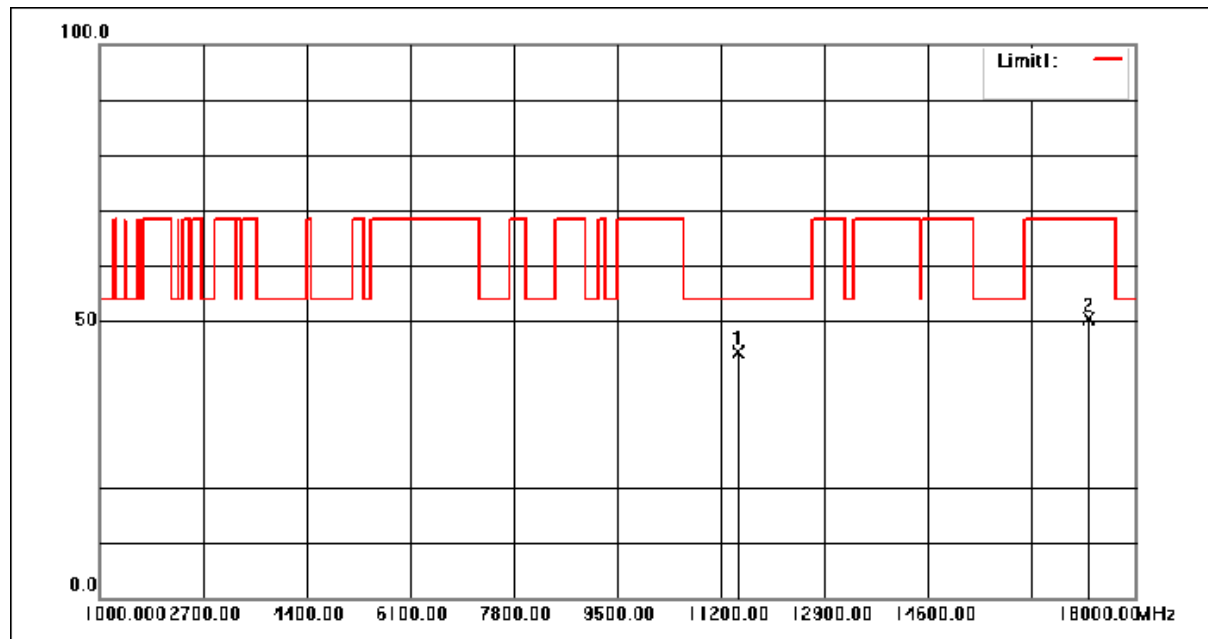
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Mode: j; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	11490.000	46.53	-2.24	44.29	54.00	-9.71	peak
2	17235.000	50.65	-0.19	50.46	68.30	-17.84	peak



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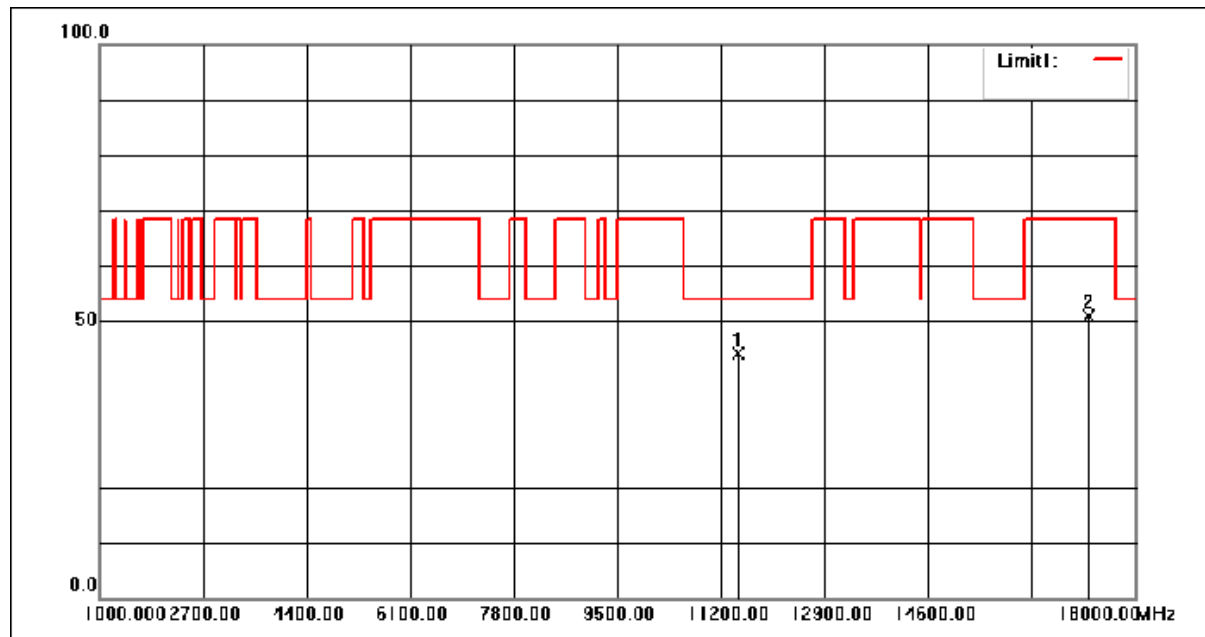
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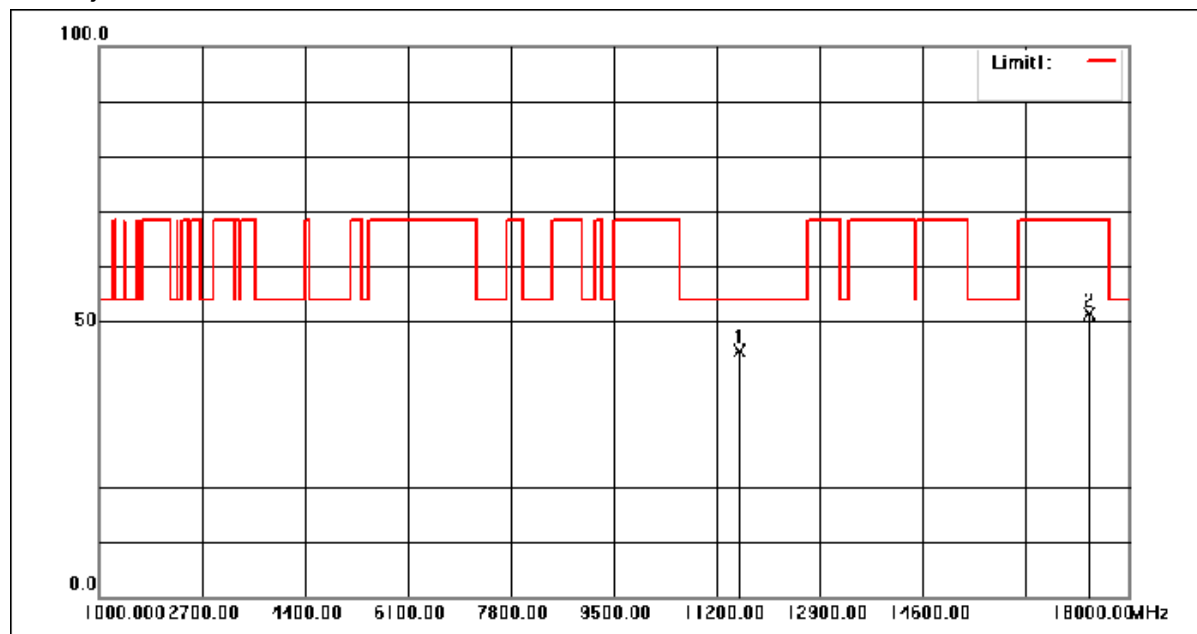
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Mode: j; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: Low



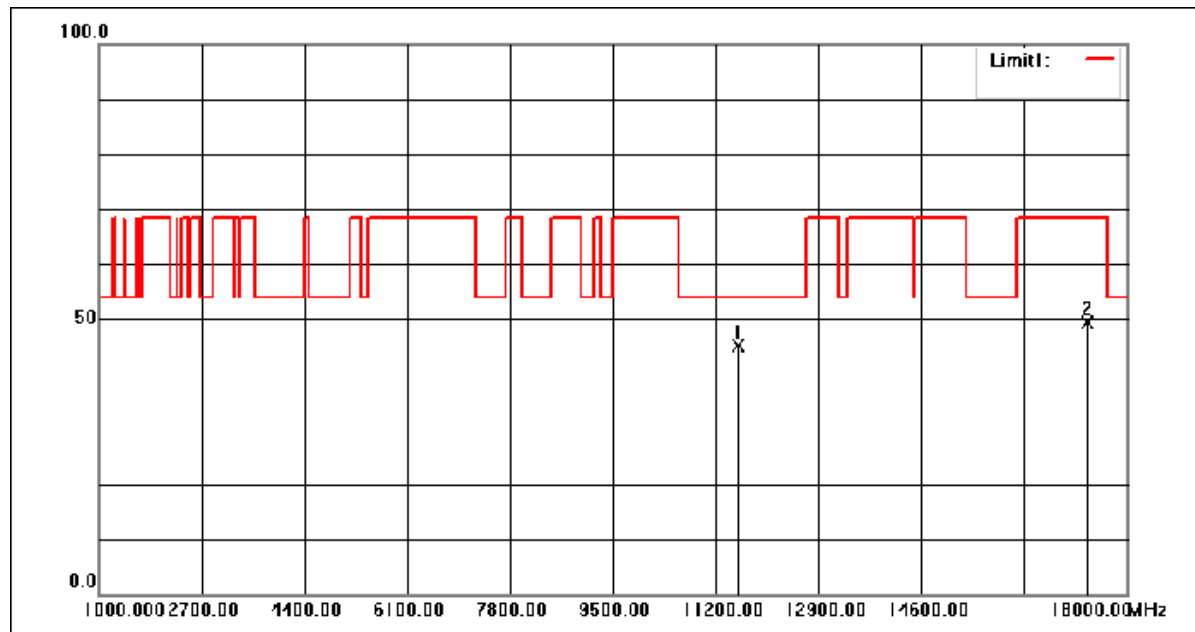
No.	Frequency (MHz)	Reading (dB)	Correction factor (dB)	Result (dB)	Limit (dB)	Margin (dB)	Remark
1	11490.000	46.38	-2.24	44.14	54.00	-9.86	peak
2	17235.000	50.99	-0.19	50.80	68.30	-17.50	peak

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	46.97	-2.33	44.64	54.00	-9.36	peak
2	17355.000	51.79	-0.29	51.50	68.30	-16.80	peak

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	47.58	-2.33	45.25	54.00	-8.75	peak
2	17355.000	49.77	-0.29	49.48	68.30	-18.82	peak



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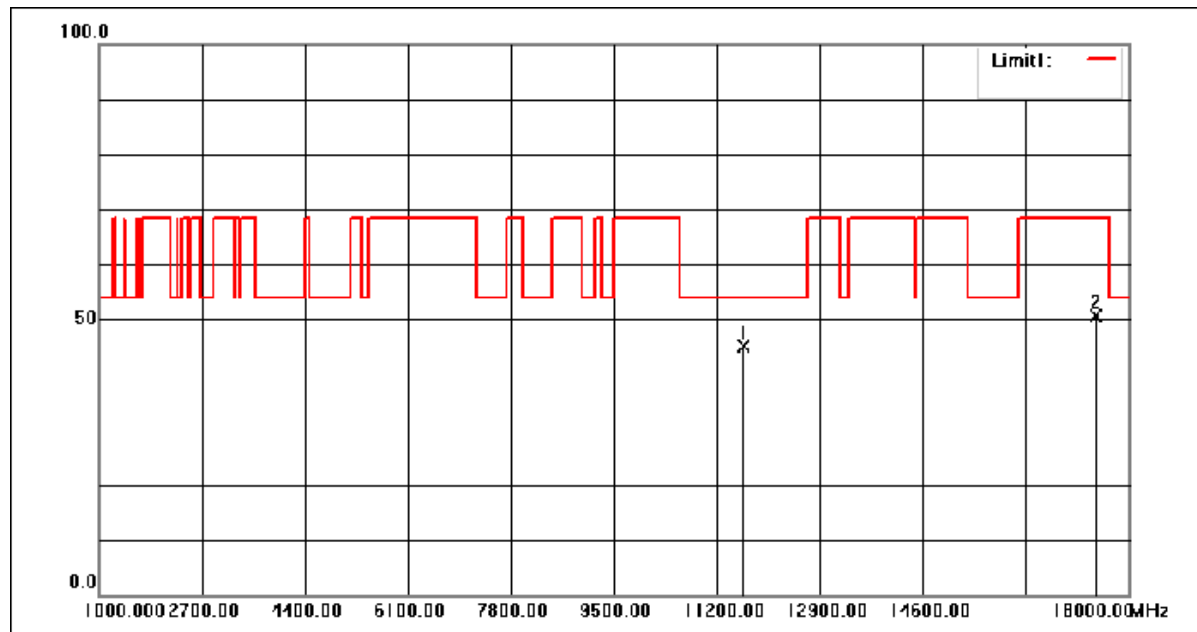
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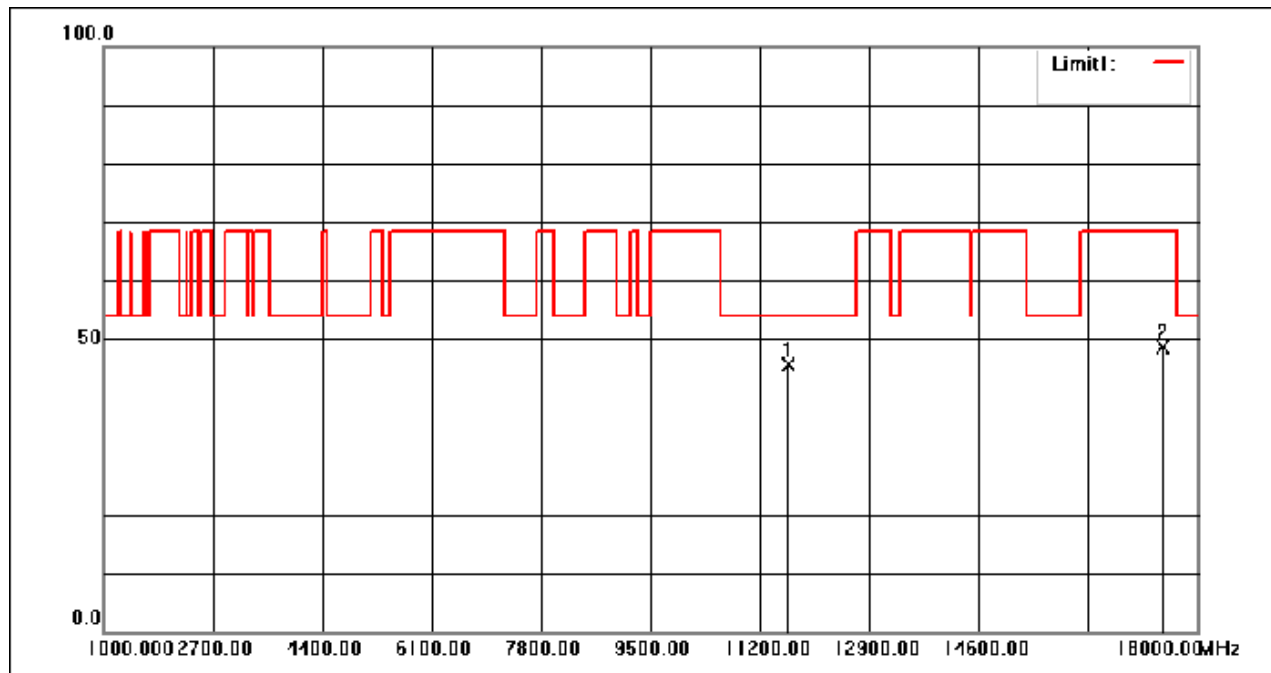
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Mode: j; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	47.44	-2.40	45.04	54.00	-8.96	peak
2	17475.000	50.91	-0.39	50.52	68.30	-17.78	peak

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	47.98	-2.40	45.58	54.00	-8.42	peak
2	17475.000	49.02	-0.39	48.63	68.30	-19.67	peak



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7.9 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

Limit:

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

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

7.9.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case: c: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). Only the data of worst case is recorded in the report.

d: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). Only the data of worst case is recorded in the report.

e: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). Only the data of worst case is recorded in the report.

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

g:Charge + TX mode (Band 1)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

h:Charge + TX mode (Band 2A)_Keep the EUT in charging and continuously



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The worst case
for final test:

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). Only the data of worst case is recorded in the report.

i:Charge + TX mode (Band 2C)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

j:Charge + TX mode (Band 3)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

g:Charge + TX mode (Band 1)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

h:Charge + TX mode (Band 2A)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

i:Charge + TX mode (Band 2C)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

j:Charge + TX mode (Band 3)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.



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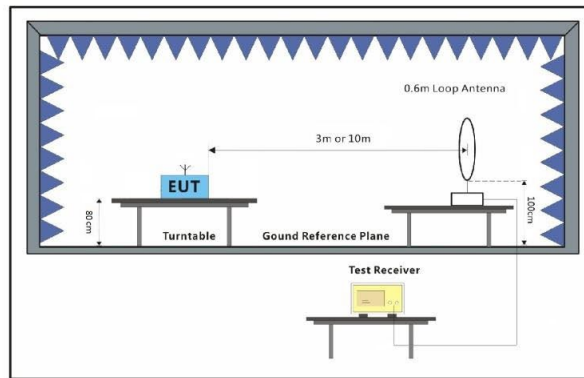
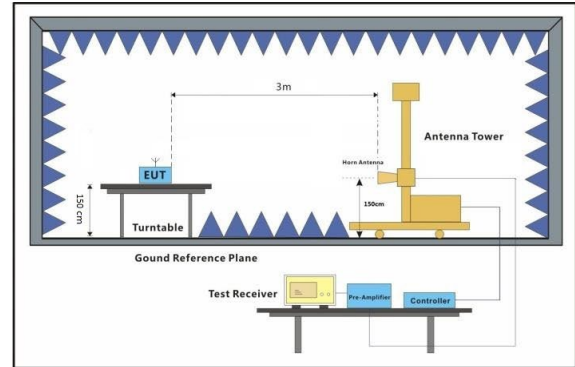
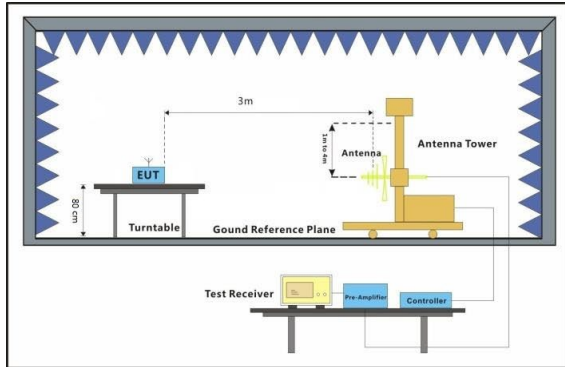
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7.9.2 Test Setup Diagram



7.9.3 Measurement Procedure and Data

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

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

Remark 2: This test item was investigated while operating in SISO mode, however, it was determined that SISO antenna 1 operation for a/n(HT20) modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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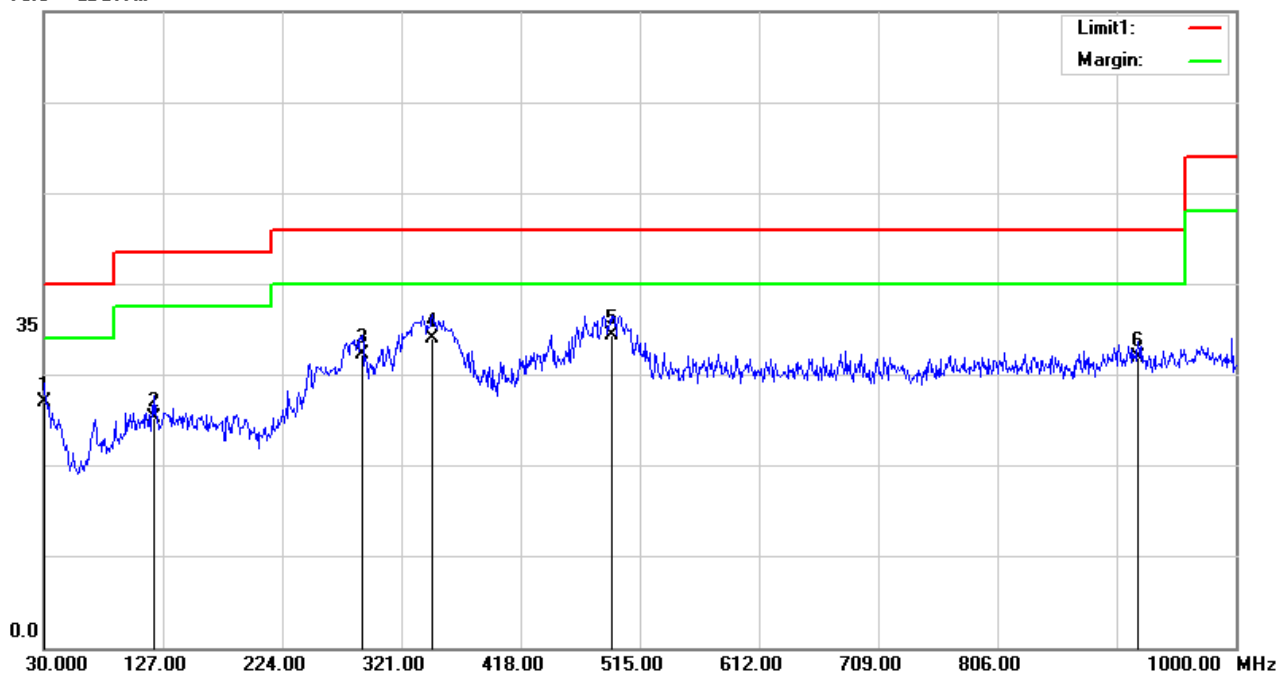
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30MHz-1GHz

Horizontal

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.0000	1.19	25.93	27.12	40.00	-12.88	200	215	QP
2	120.2100	6.15	19.17	25.32	43.50	-18.18	100	236	QP
3	288.9900	11.98	20.33	32.31	46.00	-13.69	100	222	QP
4	346.2200	11.76	22.25	34.01	46.00	-11.99	150	163	QP
5	491.7200	9.32	25.09	34.41	46.00	-11.59	100	24	QP
6	920.4600	3.03	28.93	31.96	46.00	-14.04	100	251	QP



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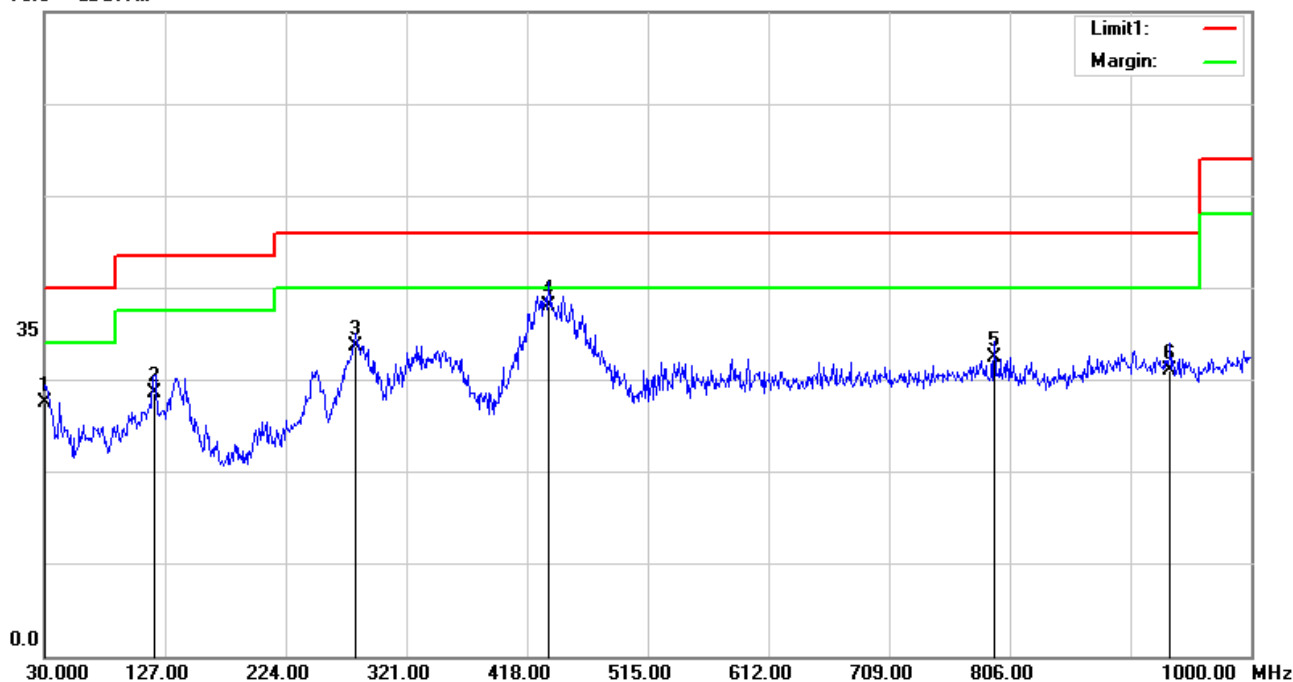
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Vertical

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.9700	2.25	25.38	27.63	40.00	-12.37	150	223	QP
2	118.2700	9.52	19.11	28.63	43.50	-14.87	100	184	QP
3	280.2600	13.52	20.11	33.63	46.00	-12.37	200	32	QP
4	435.4600	13.98	24.10	38.08	46.00	-7.92	150	153	QP
5	793.3900	4.63	27.78	32.41	46.00	-13.59	100	250	QP
6	935.0100	1.94	29.11	31.05	46.00	-14.95	200	215	QP



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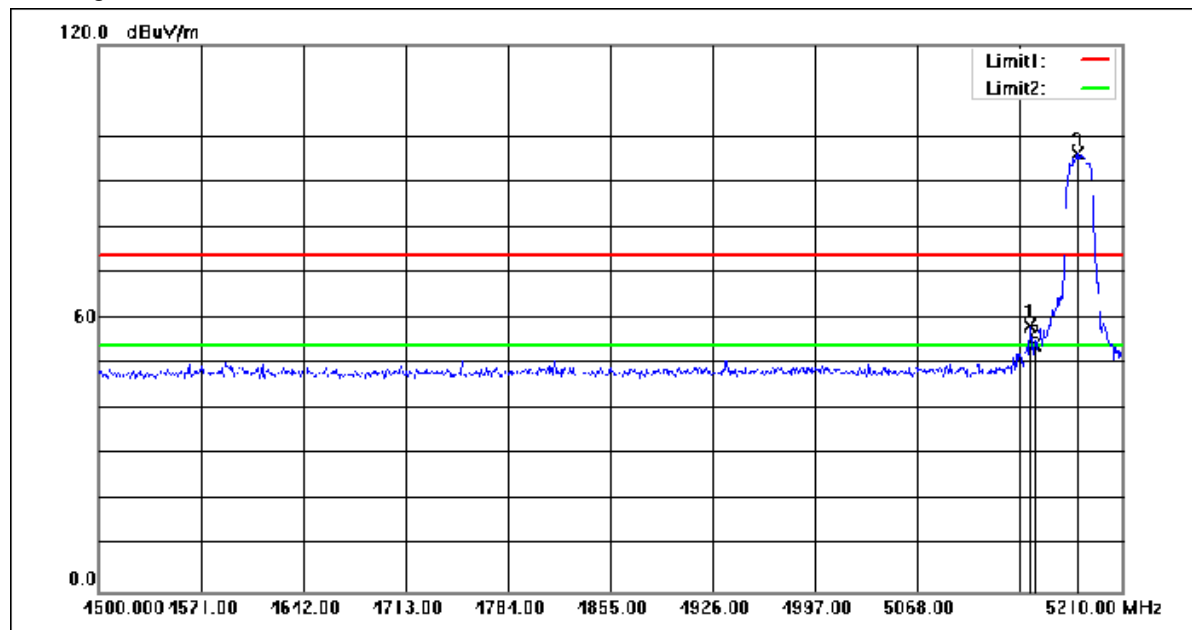
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Testing Center EMC Lab

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Above 1GHz

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	5146.100	66.28	-7.85	58.43	74.00	-15.57	peak
2	5150.000	62.07	-7.84	54.23	74.00	-19.77	peak
3	5178.760	103.79	-7.78	96.01	74.00	22.01	peak



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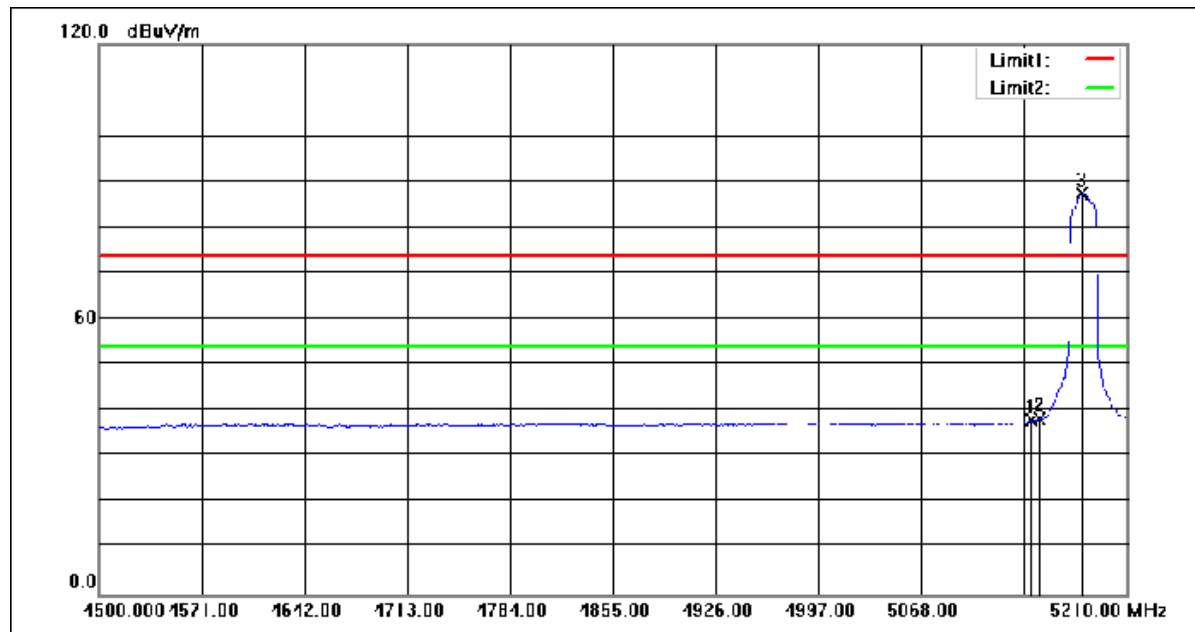
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Mode: g; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.970	45.76	-7.86	37.90	54.00	-16.10	AVG
2	5150.000	45.94	-7.84	38.10	54.00	-15.90	AVG
3	5179.470	95.25	-7.77	87.48	54.00	33.48	AVG



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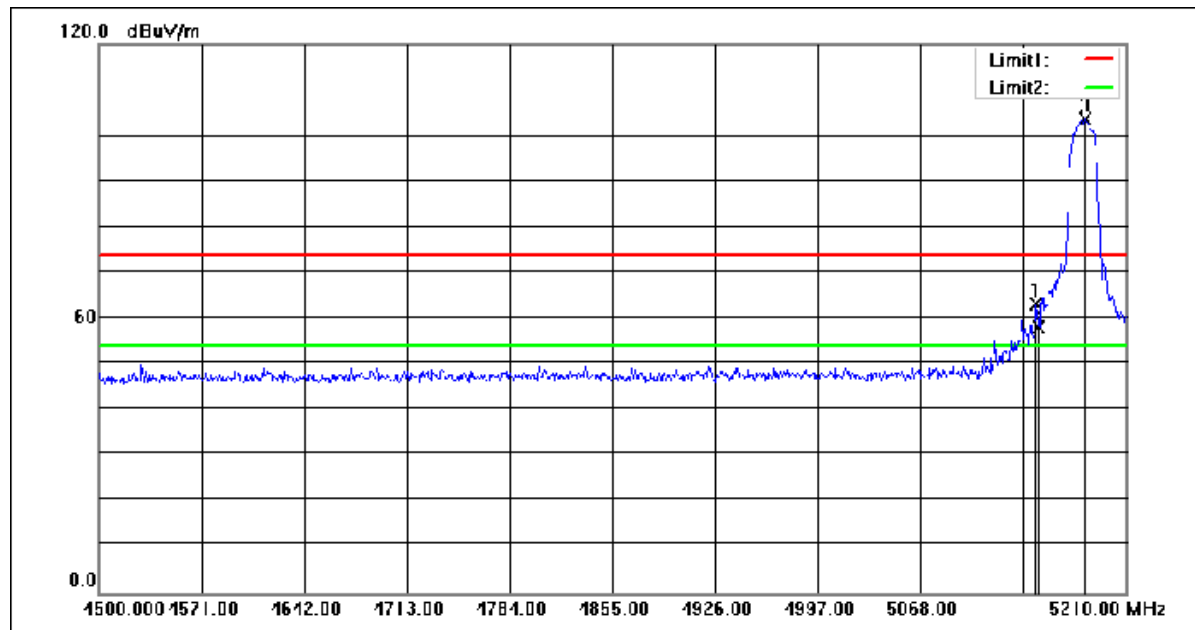
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Mode: g; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5147.520	70.87	-7.85	63.02	74.00	-10.98	peak
2	5150.000	66.02	-7.84	58.18	74.00	-15.82	peak
3	5181.600	111.29	-7.77	103.52	74.00	29.52	peak



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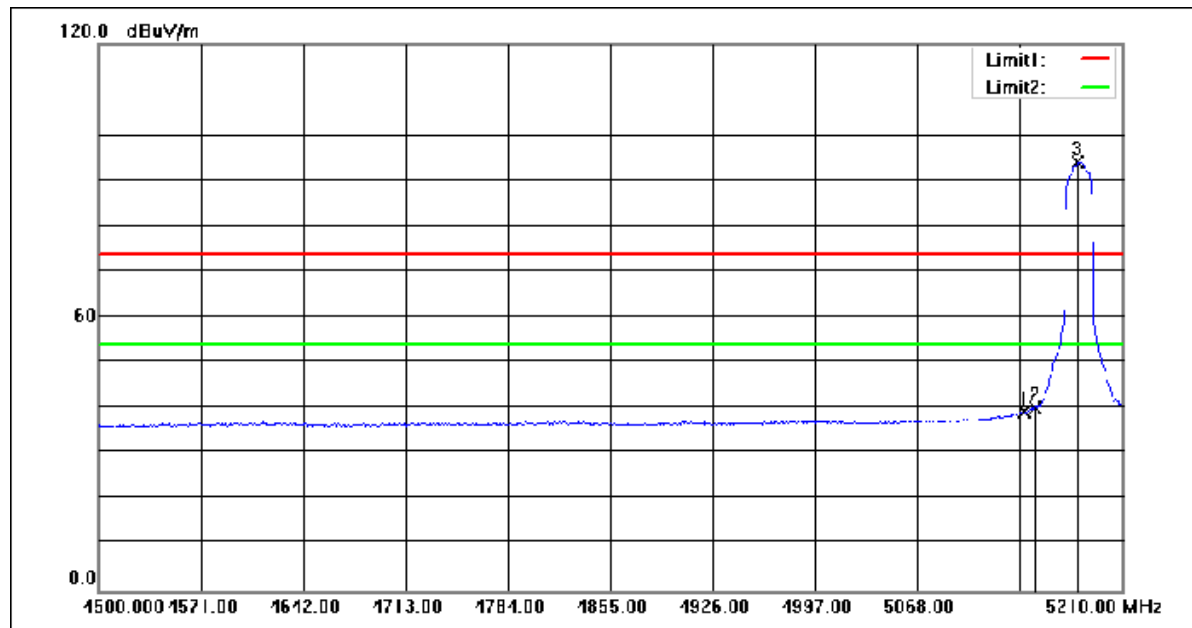
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Mode: g; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.550	47.16	-7.86	39.30	54.00	-14.70	AVG
2	5150.000	48.00	-7.84	40.16	54.00	-13.84	AVG
3	5179.470	101.88	-7.77	94.11	54.00	40.11	AVG



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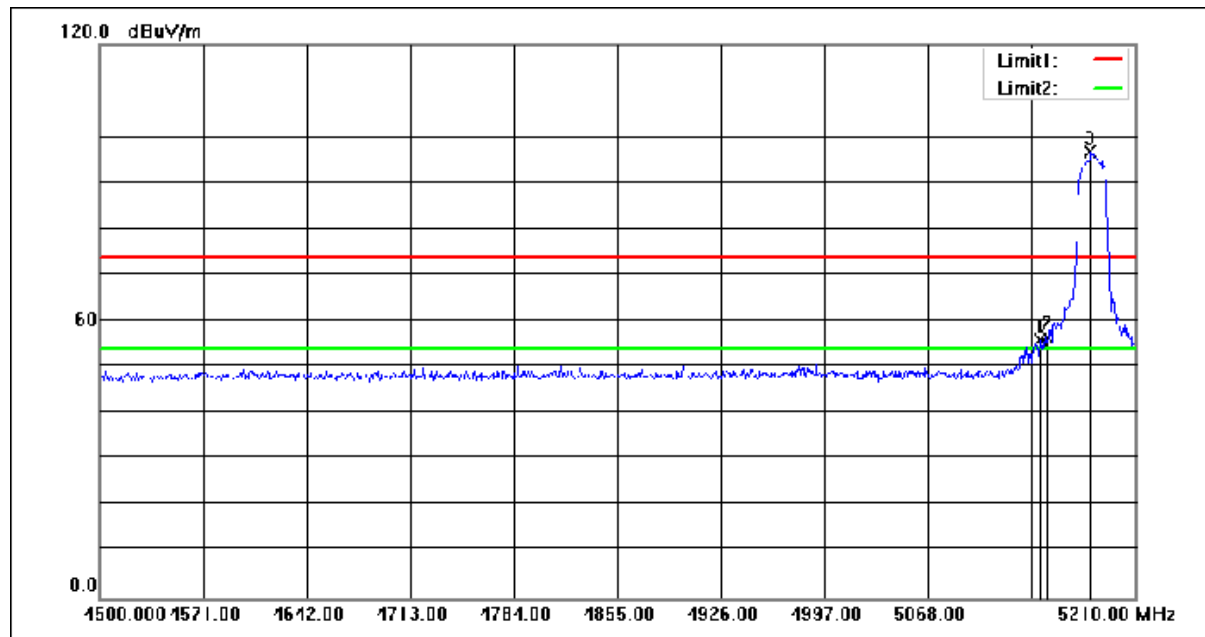
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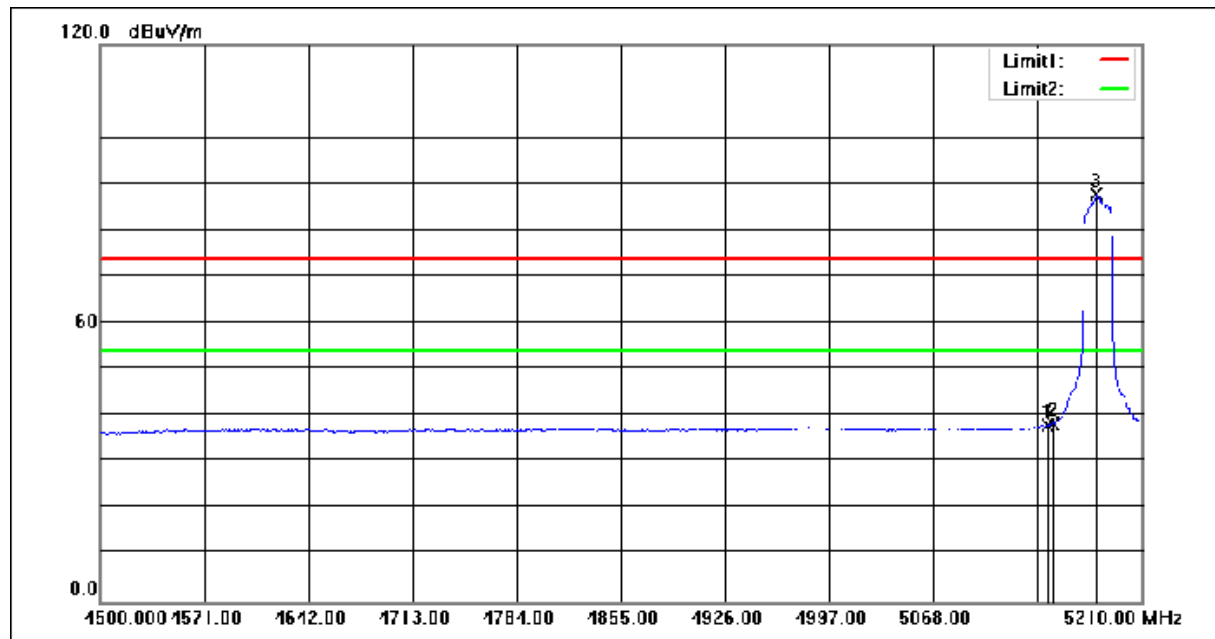
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Mode: g; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: Low



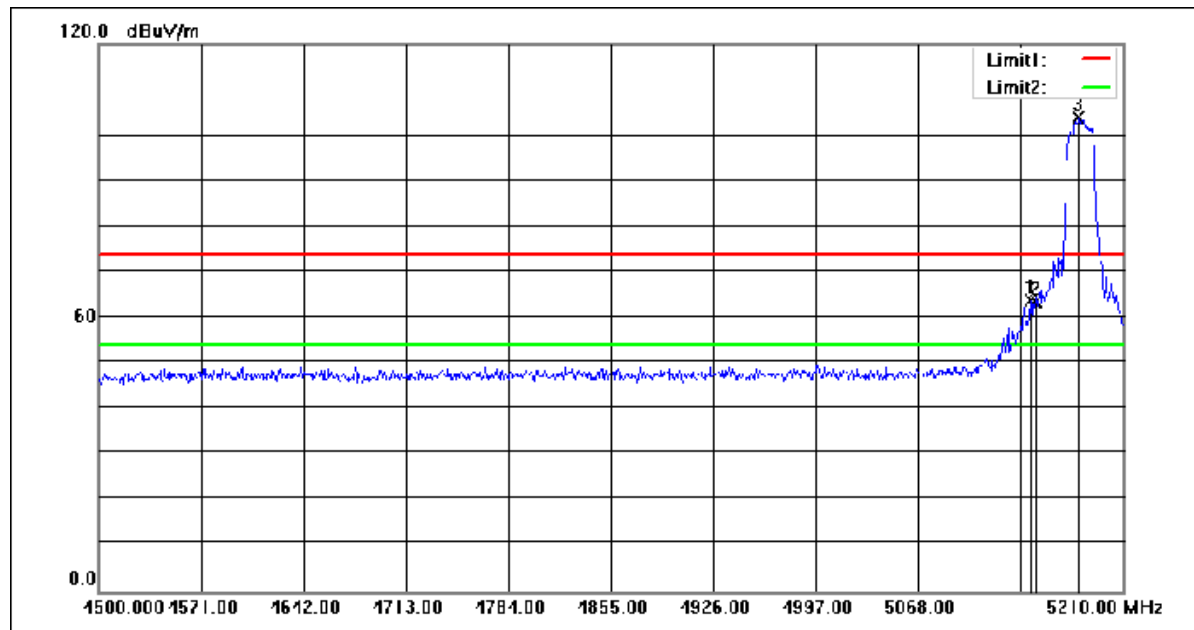
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5145.390	63.87	-7.85	56.02	74.00	-17.98	peak
2	5150.000	64.28	-7.84	56.44	74.00	-17.56	peak
3	5179.470	104.52	-7.77	96.75	74.00	22.75	peak

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	5146.100	45.92	-7.85	38.07	54.00	-15.93	AVG
2	5150.000	46.13	-7.84	38.29	54.00	-15.71	AVG
3	5179.470	95.52	-7.77	87.75	54.00	33.75	AVG

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.100	71.60	-7.85	63.75	74.00	-10.25	peak
2	5150.000	71.18	-7.84	63.34	74.00	-10.66	peak
3	5179.470	111.61	-7.77	103.84	74.00	29.84	peak



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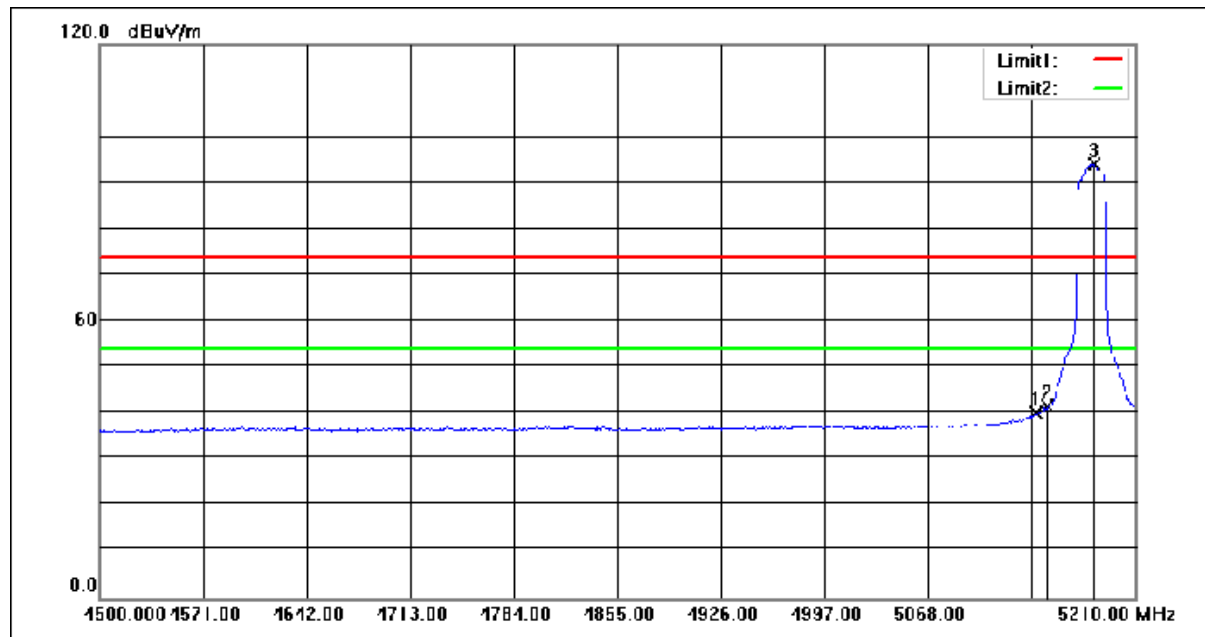
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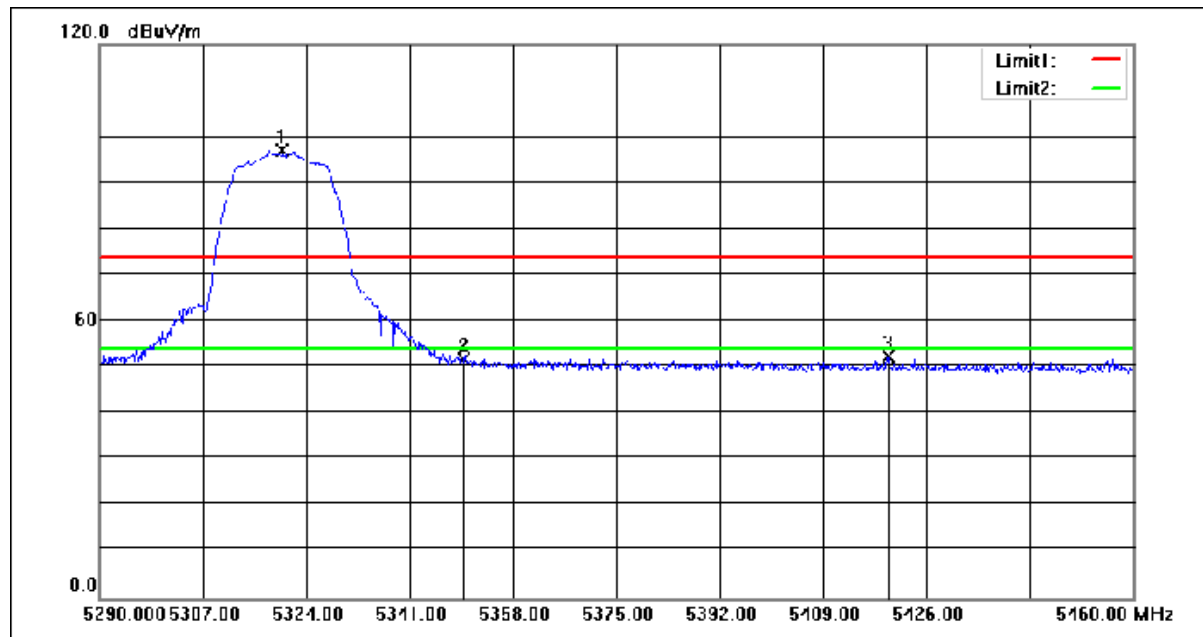
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Mode: g; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: Low



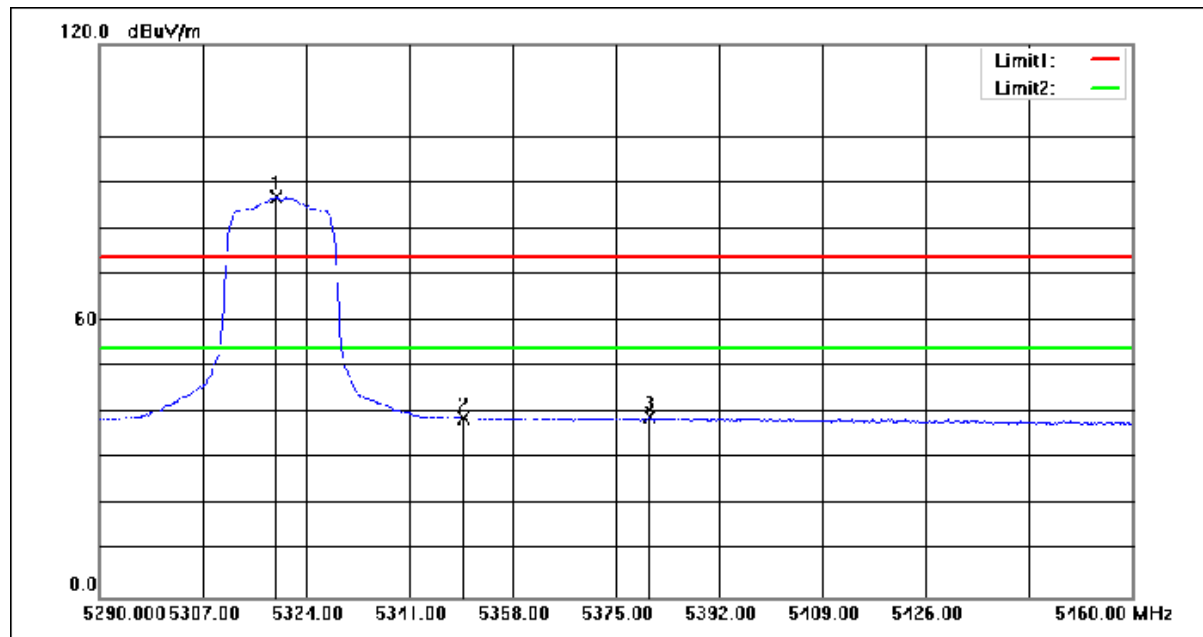
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.550	47.94	-7.86	40.08	54.00	-13.92	AVG
2	5150.000	49.28	-7.84	41.44	54.00	-12.56	AVG
3	5181.600	101.97	-7.77	94.20	54.00	40.20	AVG

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



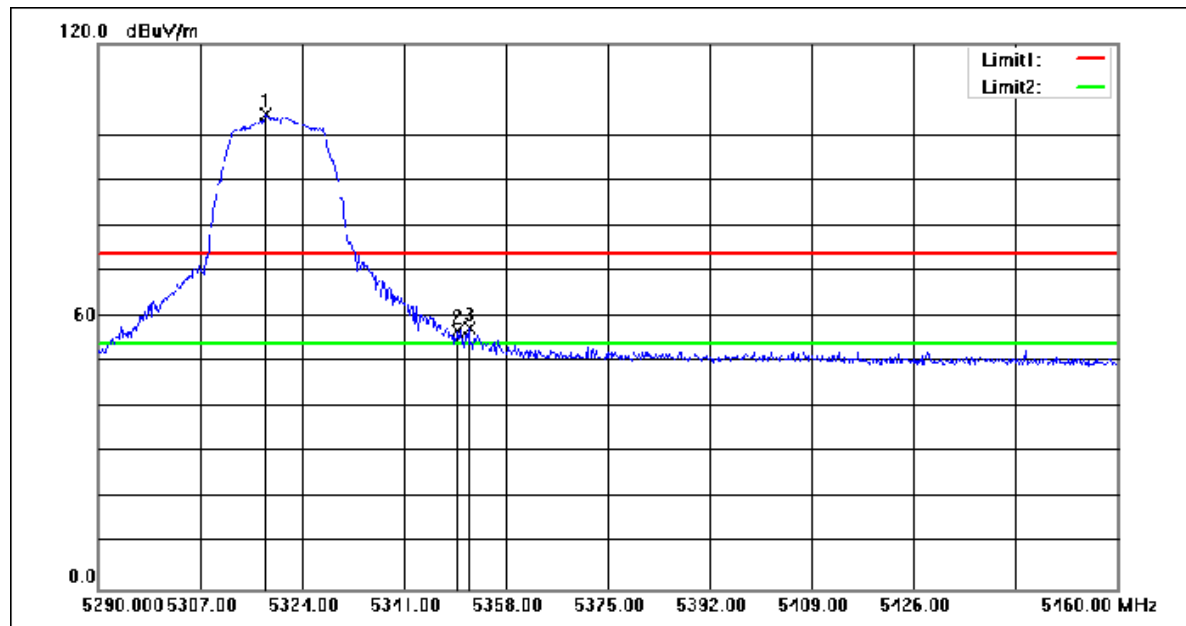
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5320.090	104.26	-7.26	97.00	74.00	23.00	peak
2	5350.000	58.79	-7.15	51.64	74.00	-22.36	peak
3	5419.710	59.19	-6.96	52.23	74.00	-21.77	peak

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



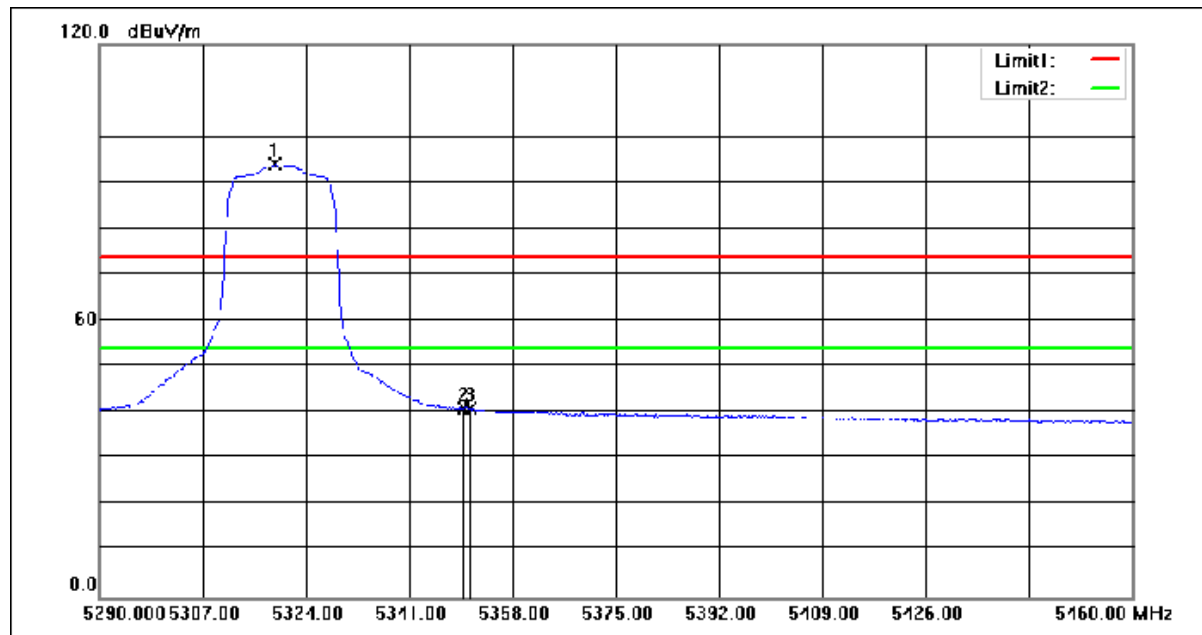
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5319.070	94.11	-7.27	86.84	54.00	32.84	AVG
2	5350.000	45.88	-7.15	38.73	54.00	-15.27	AVG
3	5380.610	46.05	-7.02	39.03	54.00	-14.97	AVG

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



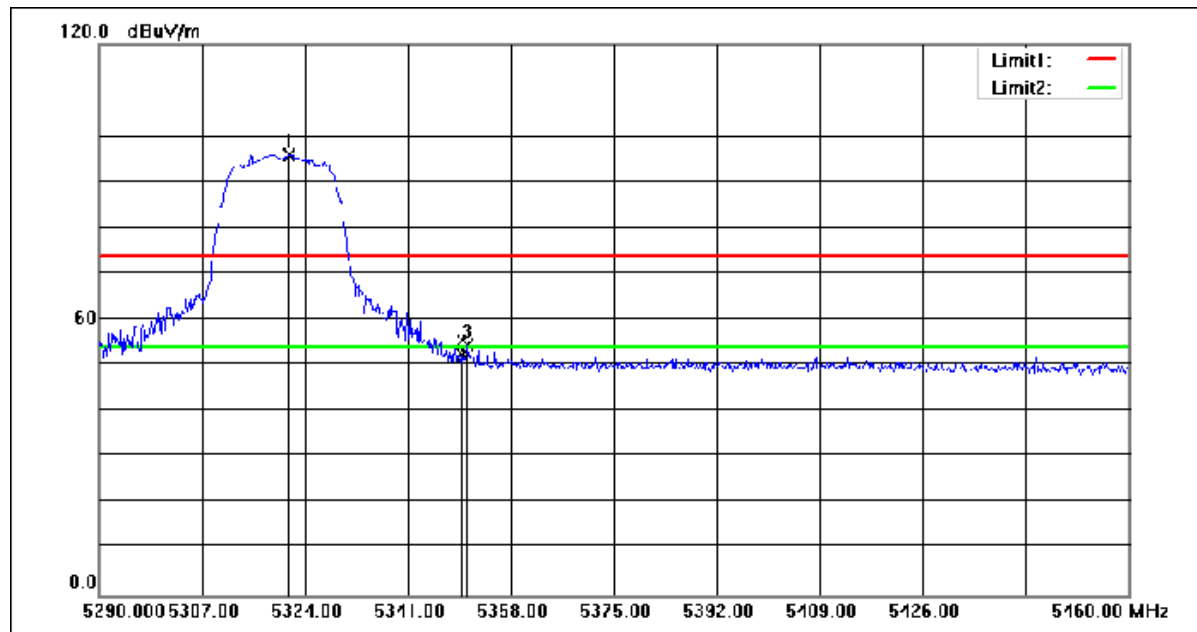
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5317.880	111.75	-7.27	104.48	74.00	30.48	peak
2	5350.000	63.94	-7.15	56.79	74.00	-17.21	peak
3	5351.880	64.47	-7.14	57.33	74.00	-16.67	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5318.900	101.20	-7.27	93.93	54.00	39.93	AVG
2	5350.000	48.05	-7.15	40.90	54.00	-13.10	AVG
3	5351.030	47.99	-7.14	40.85	54.00	-13.15	AVG

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5321.450	103.24	-7.26	95.98	74.00	21.98	peak
2	5350.000	59.46	-7.15	52.31	74.00	-21.69	peak
3	5350.860	61.47	-7.14	54.33	74.00	-19.67	peak



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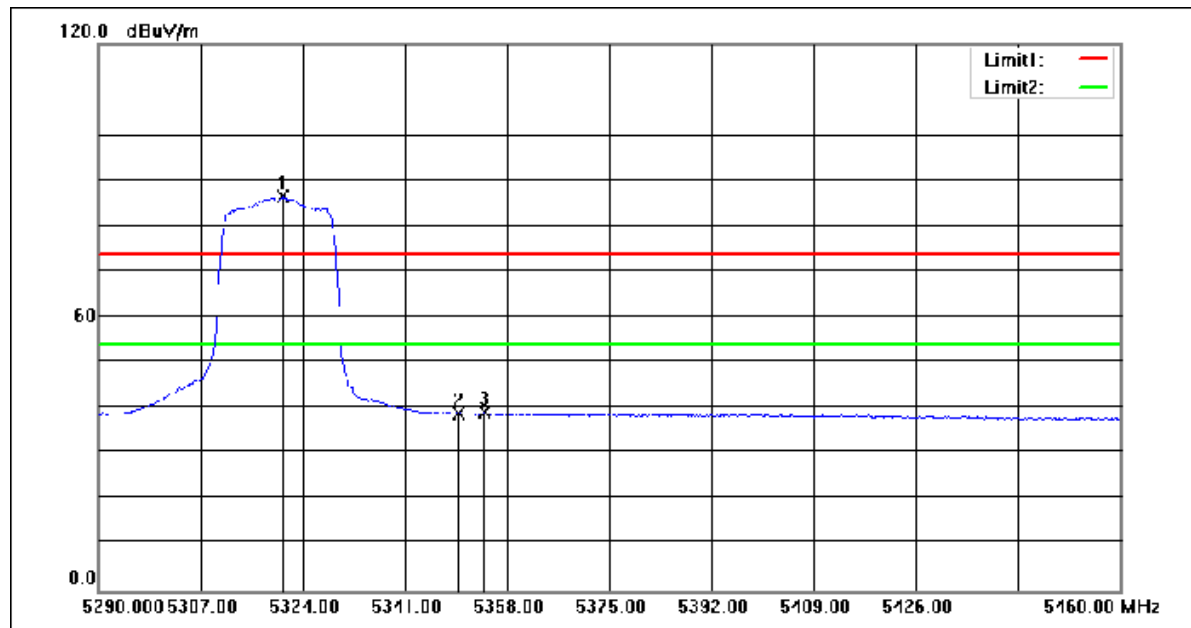
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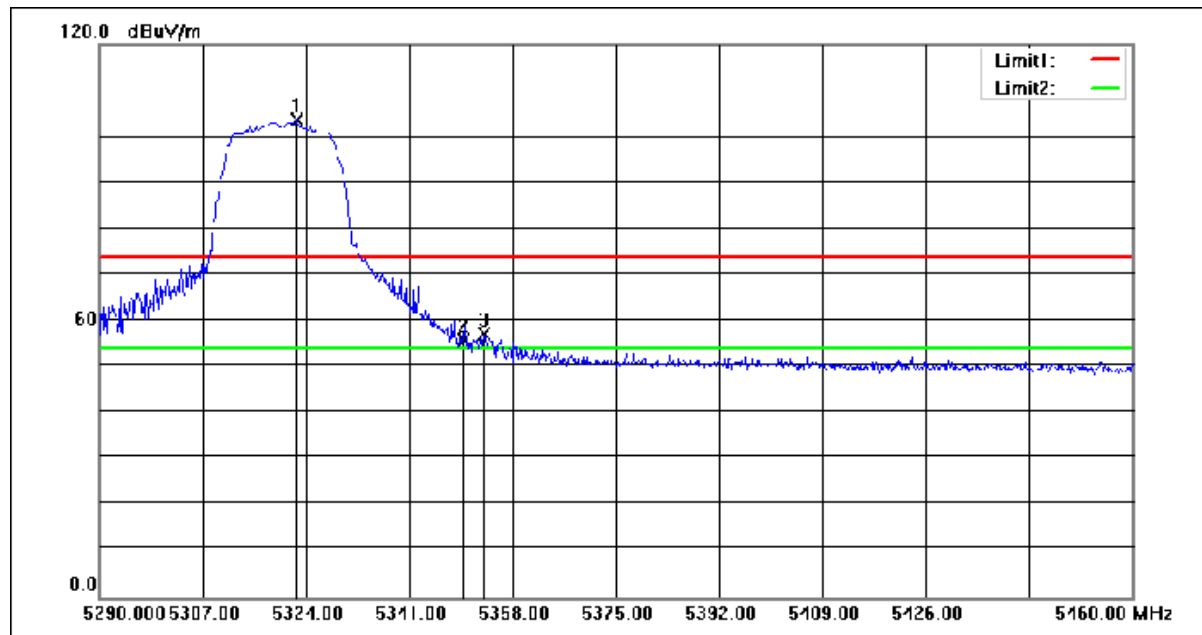
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Mode: h; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: High



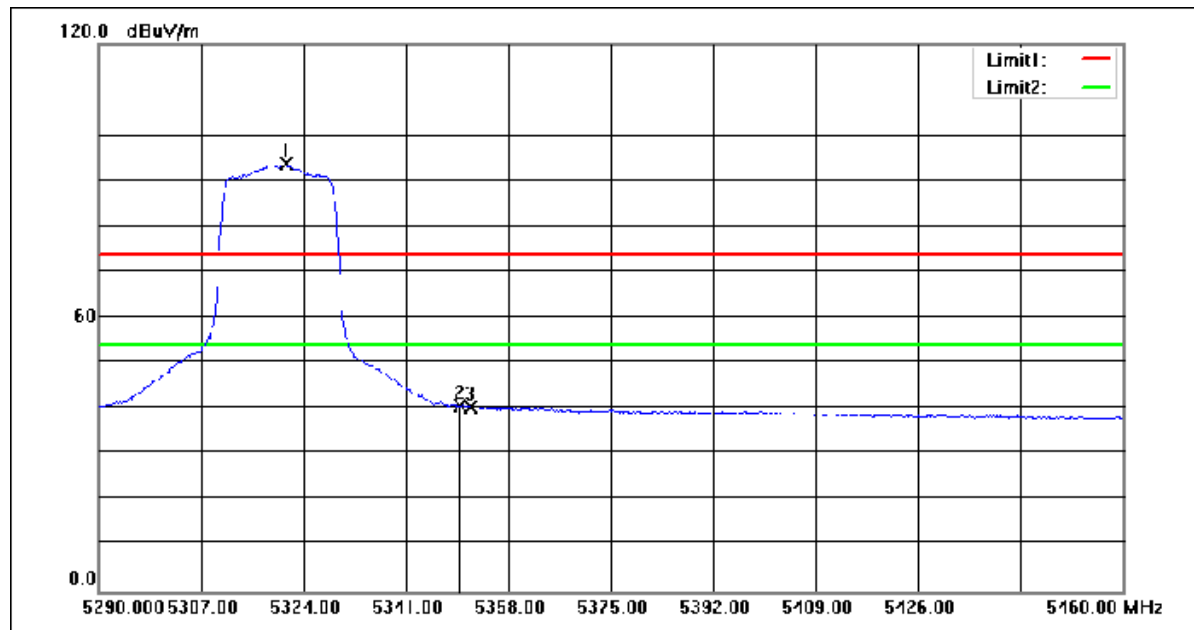
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5320.770	93.73	-7.26	86.47	54.00	32.47	AVG
2	5350.000	46.14	-7.15	38.99	54.00	-15.01	AVG
3	5354.260	46.21	-7.13	39.08	54.00	-14.92	AVG

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5322.470	111.03	-7.25	103.78	74.00	29.78	peak
2	5350.000	63.22	-7.15	56.07	74.00	-17.93	peak
3	5353.410	64.36	-7.13	57.23	74.00	-16.77	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5321.110	100.89	-7.26	93.63	54.00	39.63	AVG
2	5350.000	47.84	-7.15	40.69	54.00	-13.31	AVG
3	5351.710	47.62	-7.14	40.48	54.00	-13.52	AVG



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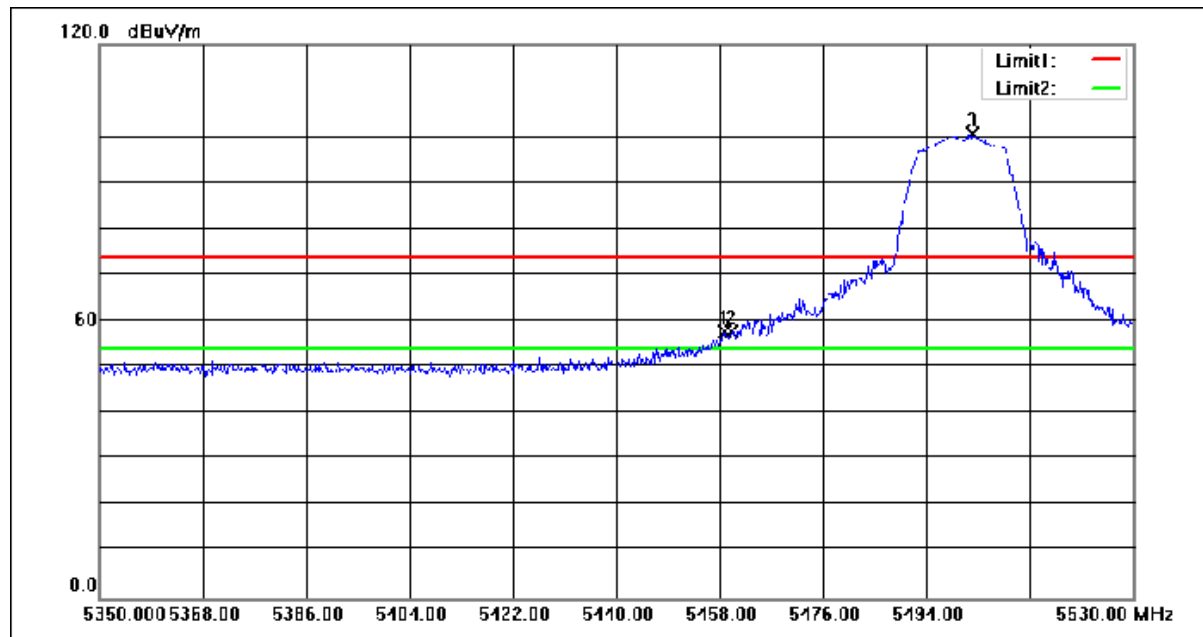
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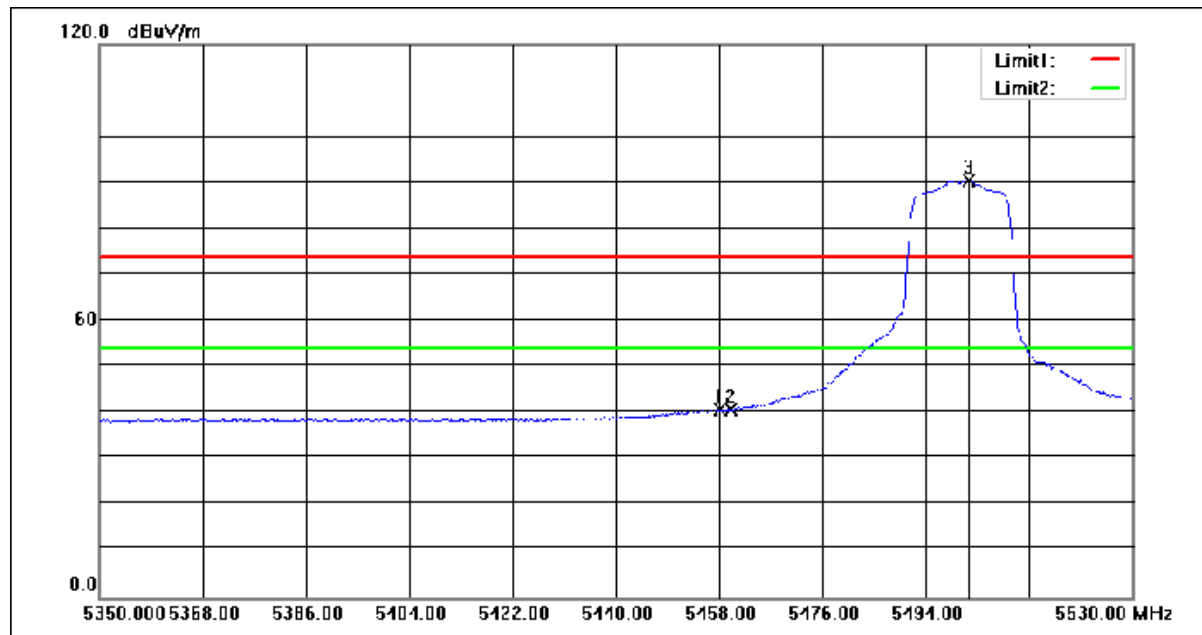
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Mode: i; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.900	64.84	-6.96	57.88	74.00	-16.12	peak
2	5460.000	64.82	-6.95	57.87	74.00	-16.13	peak
3	5502.100	107.66	-6.96	100.70	74.00	26.70	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.000	47.76	-6.96	40.80	54.00	-13.20	AVG
2	5460.000	47.63	-6.95	40.68	54.00	-13.32	AVG
3	5501.560	97.46	-6.96	90.50	54.00	36.50	AVG



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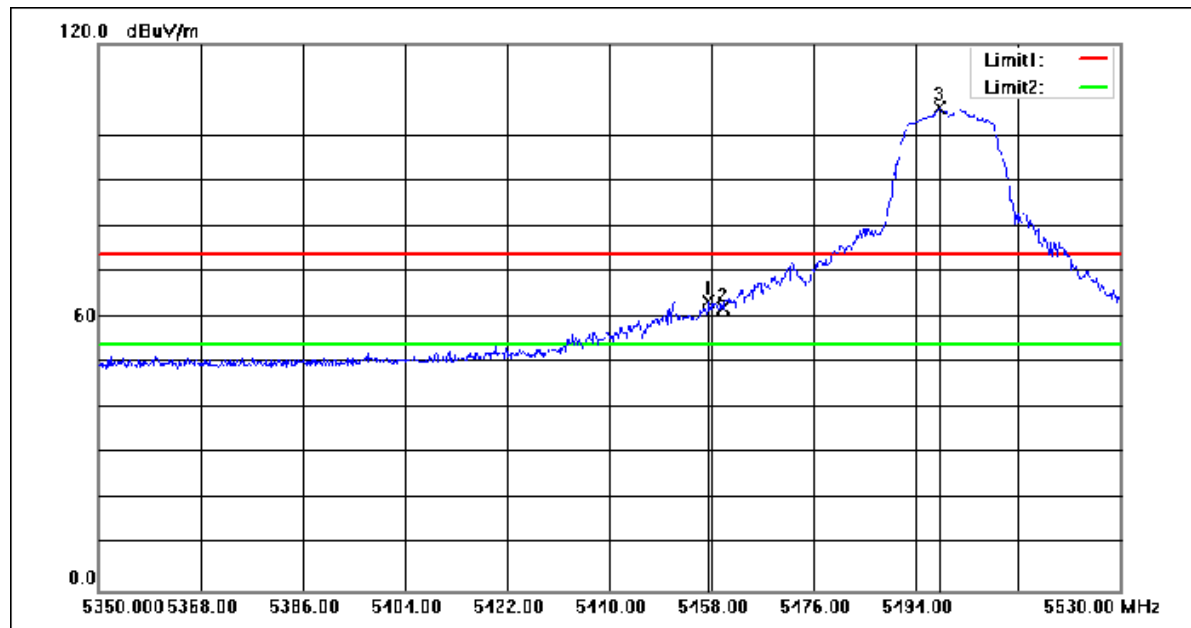
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Mode: i; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.460	70.37	-6.96	63.41	74.00	-10.59	peak
2	5460.000	68.99	-6.95	62.04	74.00	-11.96	peak
3	5498.140	112.87	-6.96	105.91	74.00	31.91	peak



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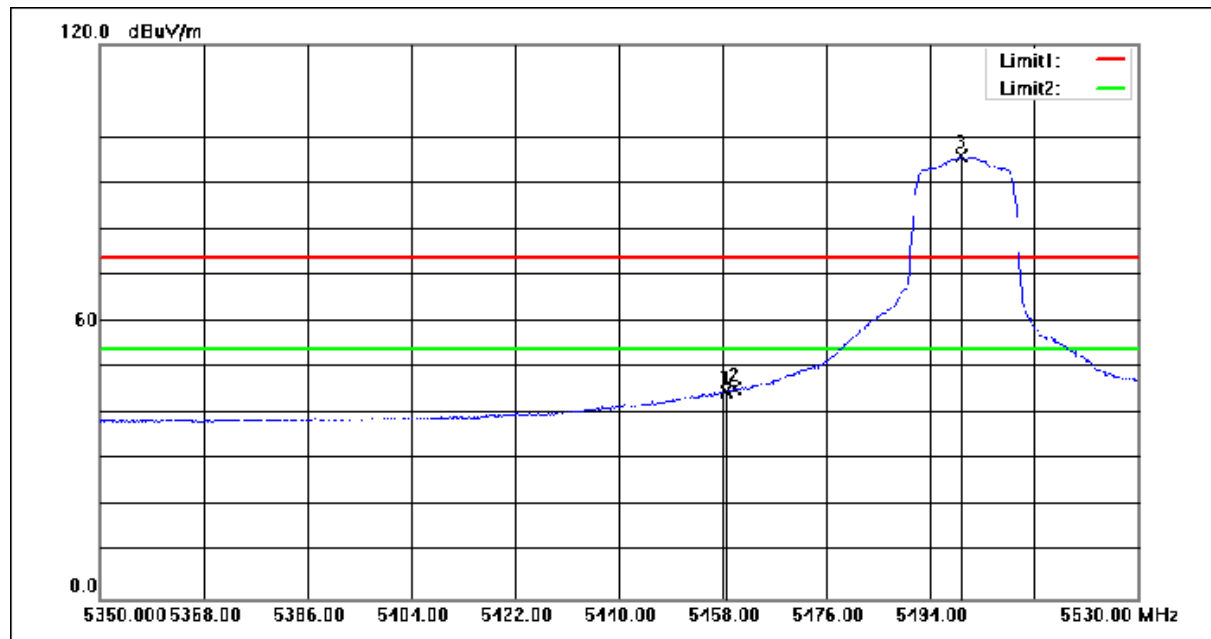
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.540	51.94	-6.96	44.98	54.00	-9.02	AVG
2	5460.000	52.30	-6.95	45.35	54.00	-8.65	AVG
3	5499.400	102.71	-6.96	95.75	54.00	41.75	AVG



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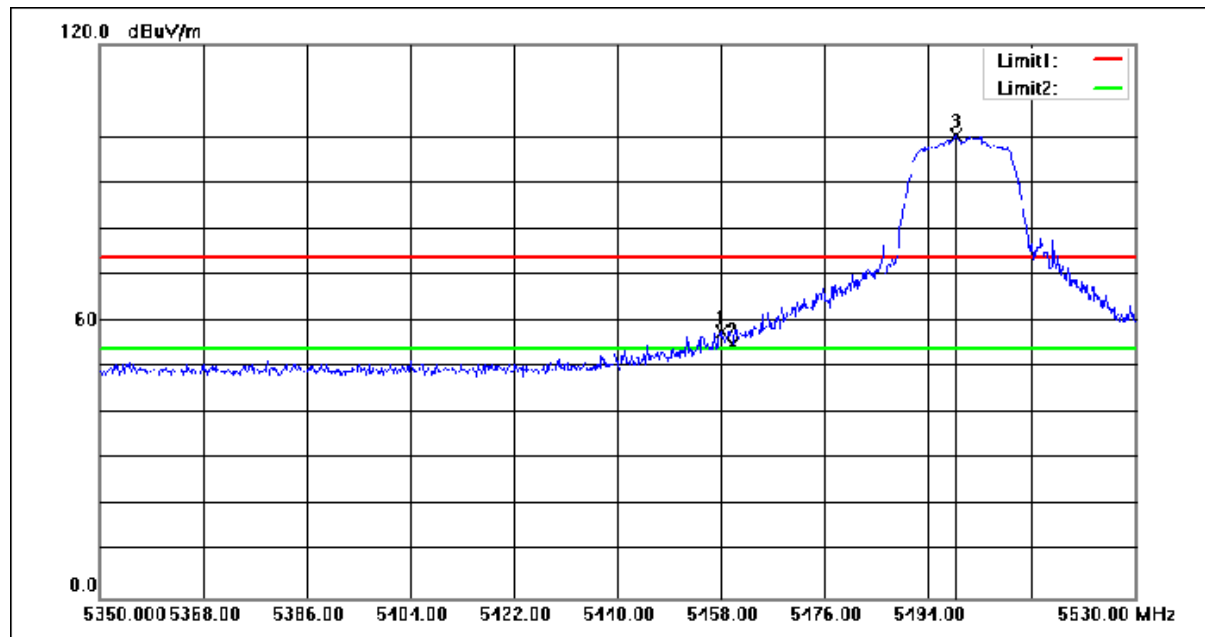
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.000	64.70	-6.96	57.74	74.00	-16.26	peak
2	5460.000	61.89	-6.95	54.94	74.00	-19.06	peak
3	5498.860	107.30	-6.96	100.34	74.00	26.34	peak



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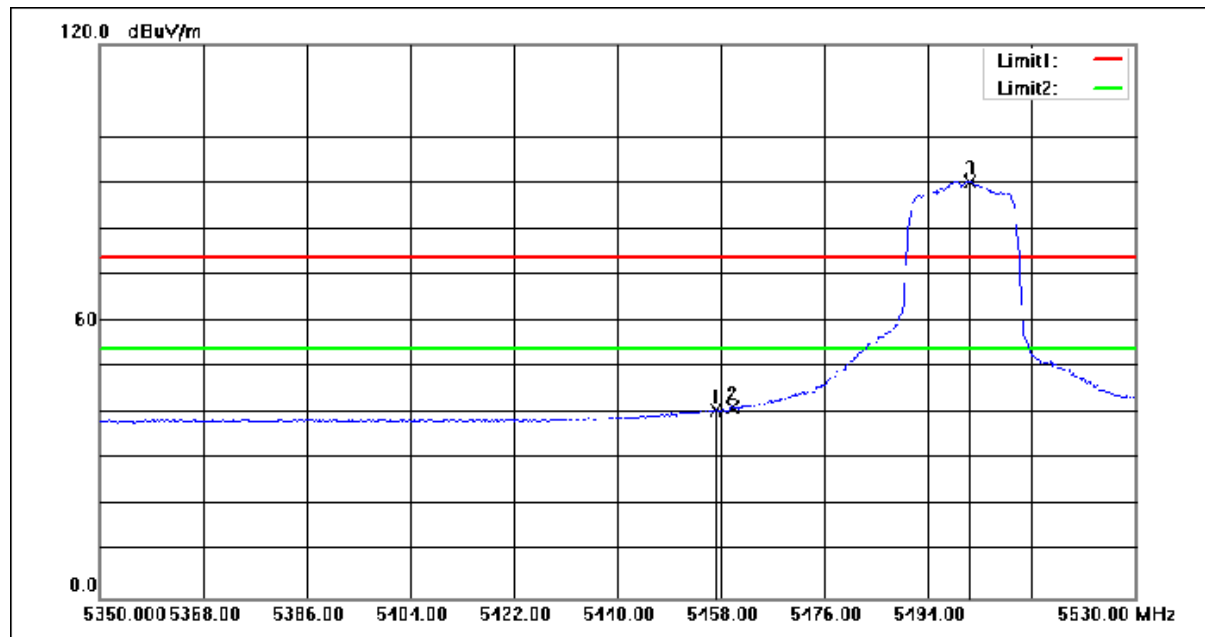
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.100	47.76	-6.96	40.80	54.00	-13.20	AVG
2	5460.000	48.31	-6.95	41.36	54.00	-12.64	AVG
3	5501.200	97.22	-6.96	90.26	54.00	36.26	AVG



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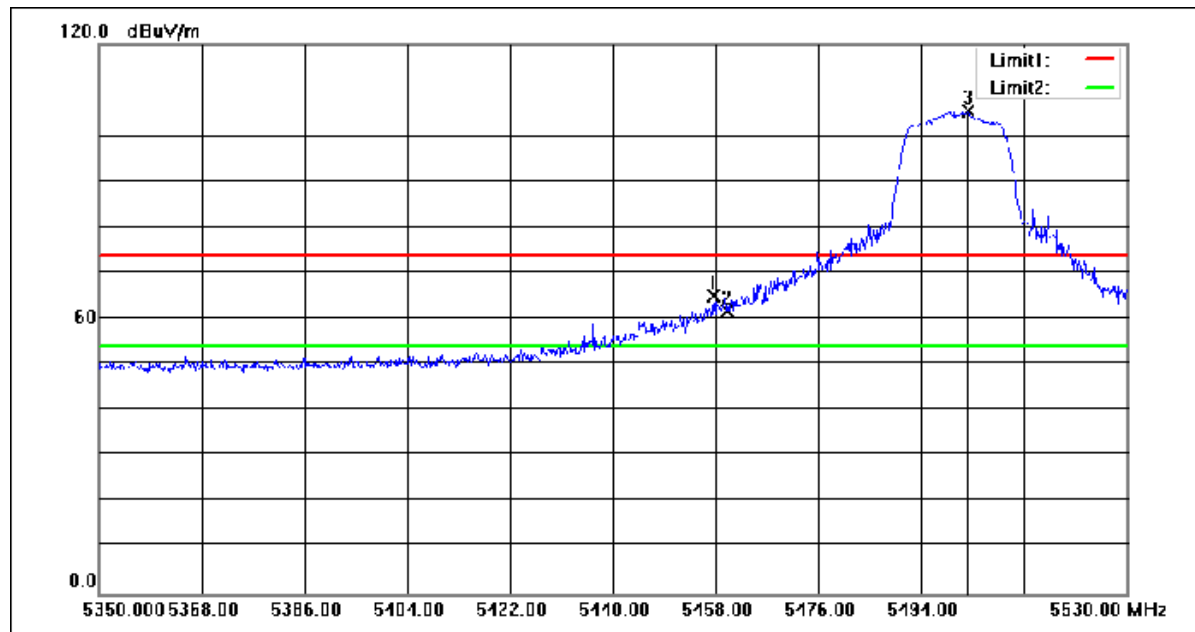
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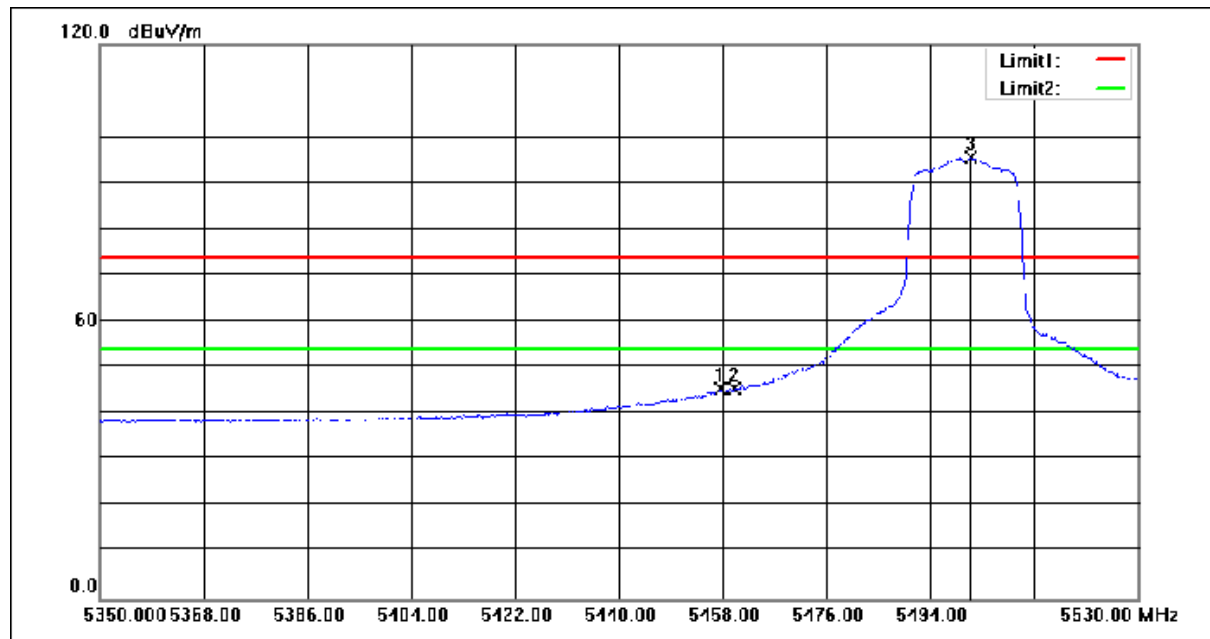
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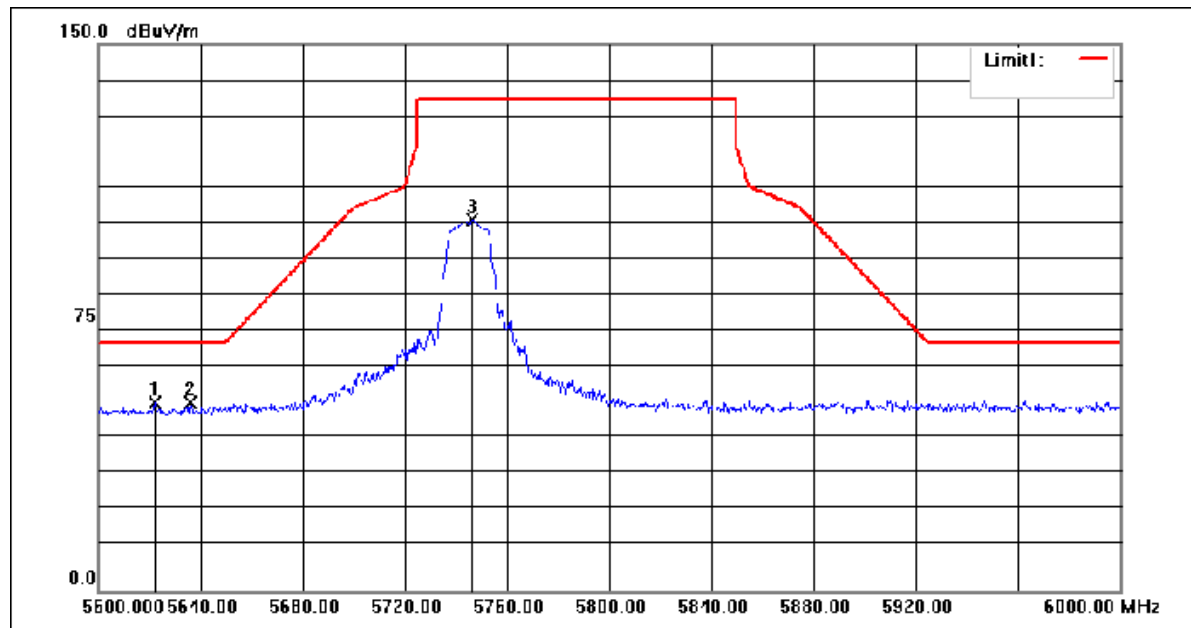
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.640	71.93	-6.96	64.97	74.00	-9.03	peak
2	5460.000	68.66	-6.95	61.71	74.00	-12.29	peak
3	5502.280	112.41	-6.96	105.45	74.00	31.45	peak

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



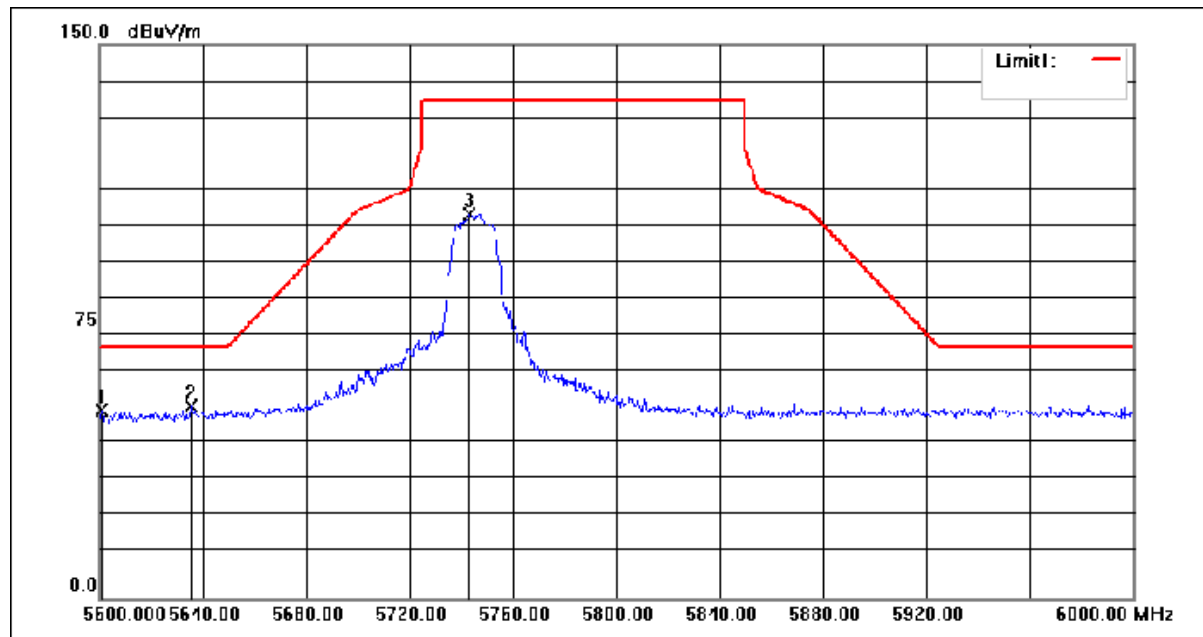
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.640	52.47	-6.96	45.51	54.00	-8.49	AVG
2	5460.000	52.52	-6.95	45.57	54.00	-8.43	AVG
3	5501.020	102.54	-6.96	95.58	54.00	41.58	AVG

Mode: j; 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	5622.000	58.58	-6.92	51.66	68.20	-16.54	peak
2	5636.000	58.26	-6.88	51.38	68.20	-16.82	peak
3	5746.400	108.31	-6.60	101.71	135.00	-33.29	peak

Mode: j; 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	5600.800	57.89	-6.97	50.92	68.20	-17.28	peak
2	5635.600	58.72	-6.88	51.84	68.20	-16.36	peak
3	5743.200	110.82	-6.61	104.21	135.00	-30.79	peak



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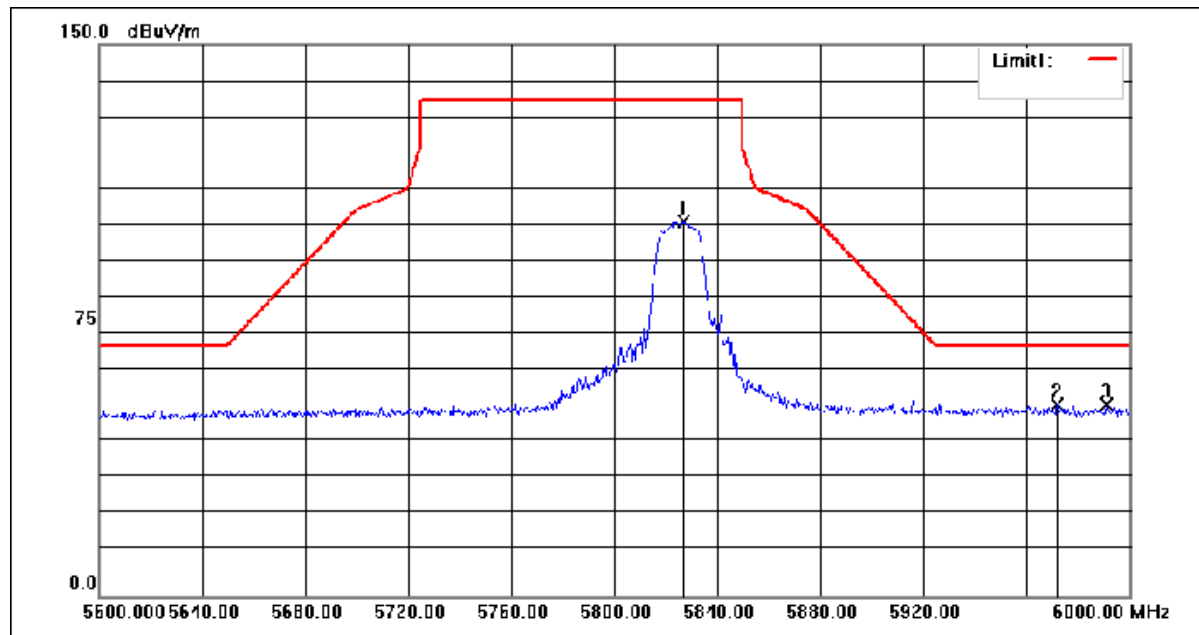
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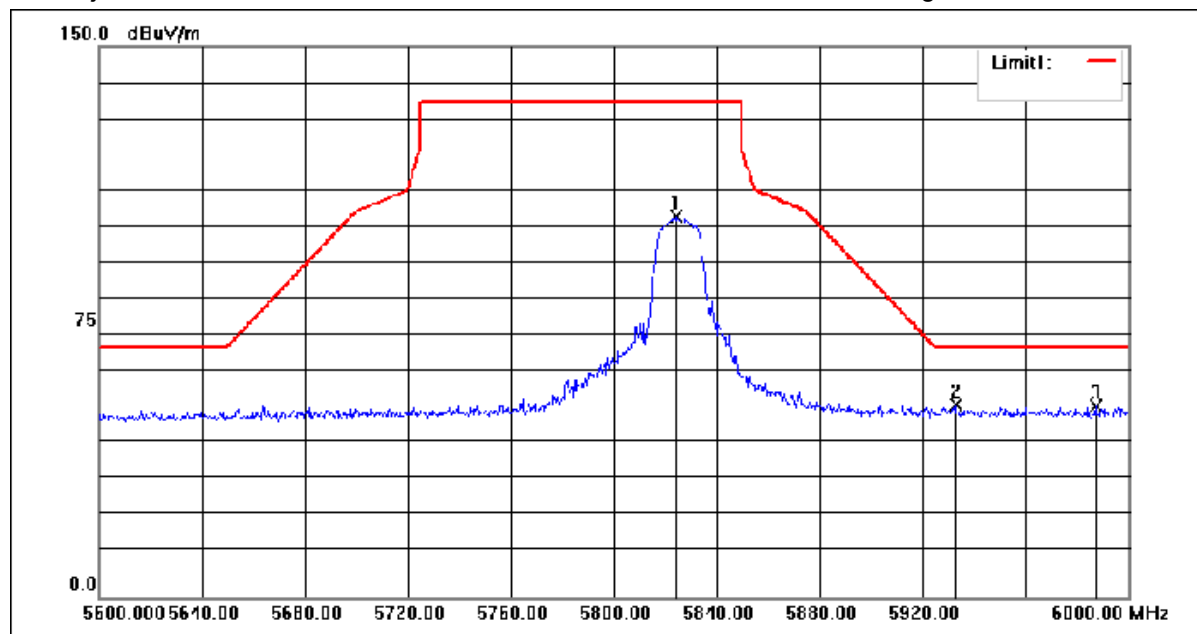
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Mode: j; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: High



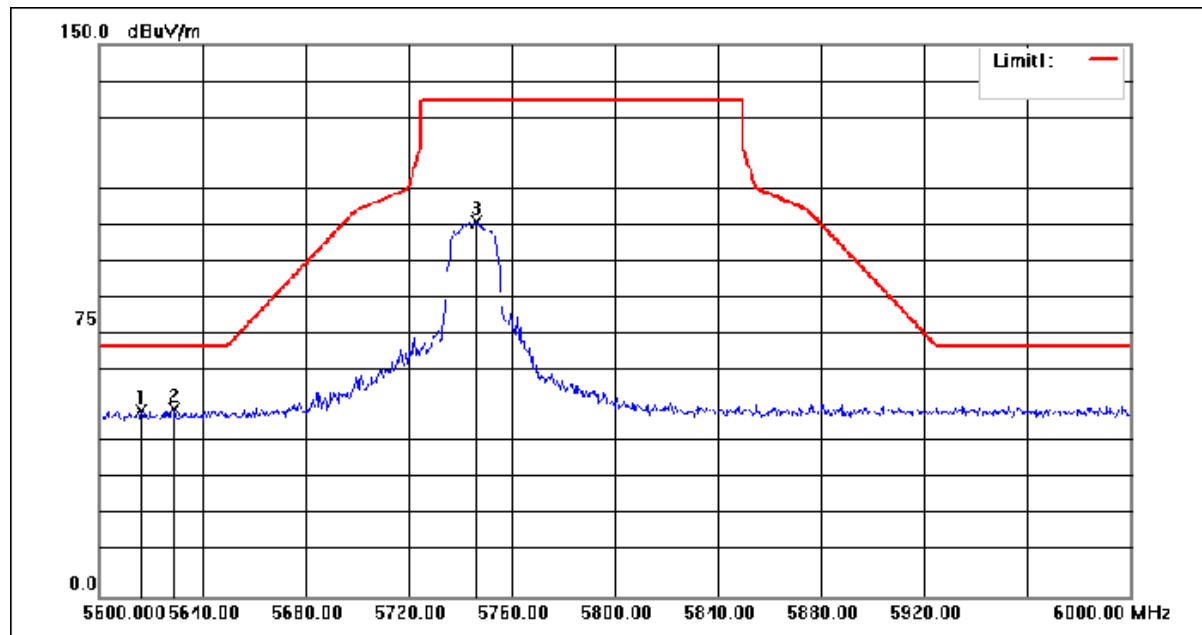
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.800	108.31	-6.31	102.00	135.00	-33.00	peak
2	5972.000	57.56	-5.52	52.04	68.20	-16.16	peak
3	5991.200	57.23	-5.40	51.83	68.20	-16.37	peak

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



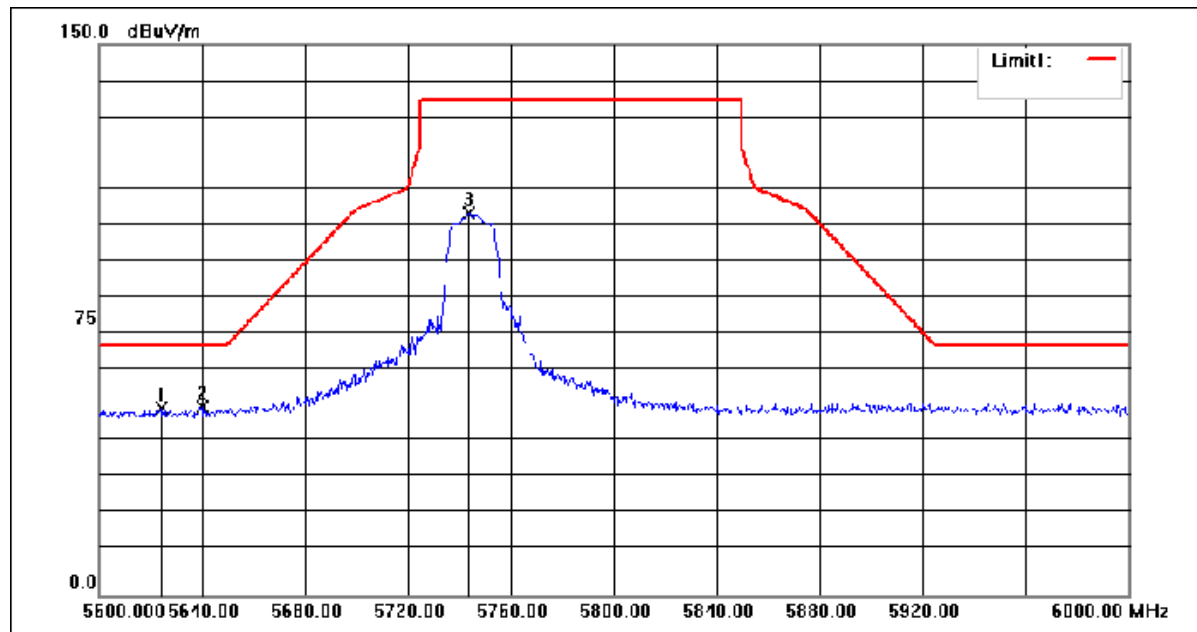
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5824.000	109.85	-6.32	103.53	135.00	-31.47	peak
2	5932.800	58.14	-5.73	52.41	68.20	-15.79	peak
3	5987.200	57.42	-5.43	51.99	68.20	-16.21	peak

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



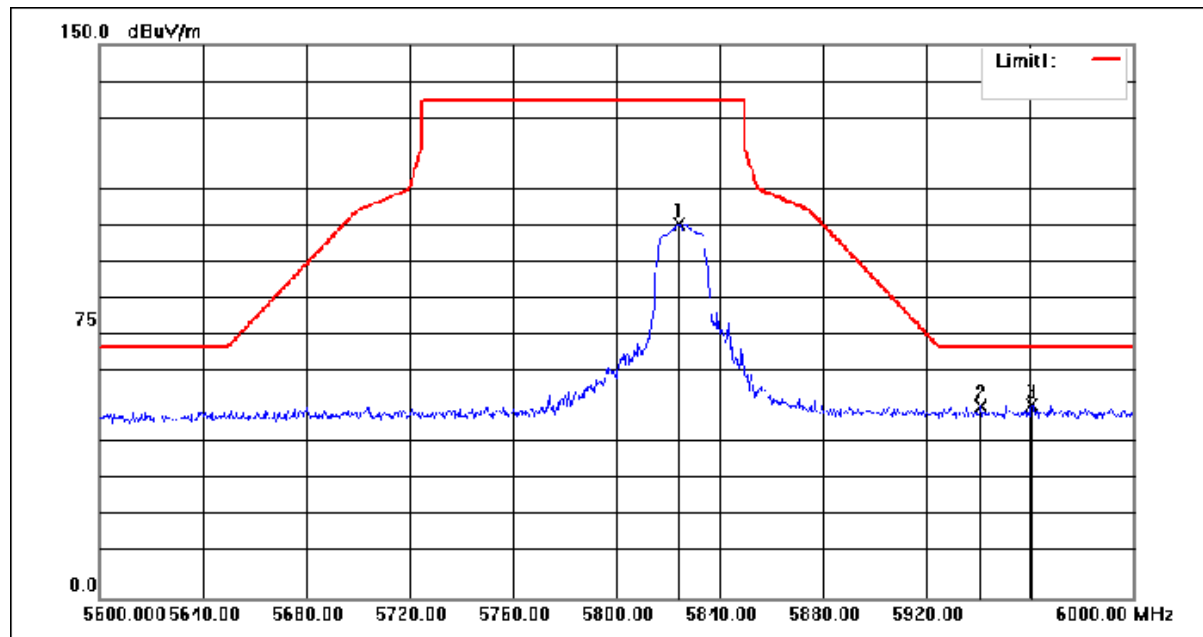
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5616.000	57.34	-6.93	50.41	68.20	-17.79	peak
2	5629.200	57.78	-6.90	50.88	68.20	-17.32	peak
3	5746.400	108.59	-6.60	101.99	135.00	-33.01	peak

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



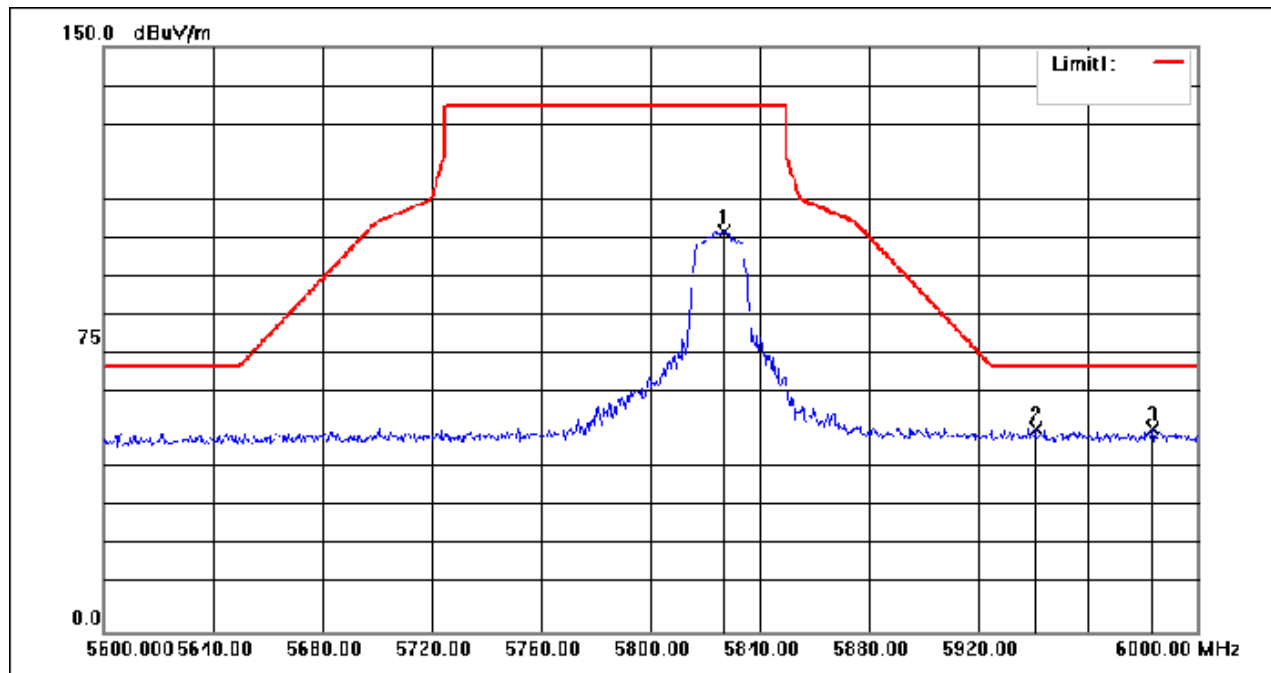
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5624.000	57.57	-6.90	50.67	68.20	-17.53	peak
2	5640.000	57.90	-6.87	51.03	68.20	-17.17	peak
3	5743.600	110.52	-6.60	103.92	135.00	-31.08	peak

Mode: j; 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	5824.000	107.64	-6.32	101.32	135.00	-33.68	peak
2	5941.200	57.60	-5.68	51.92	68.20	-16.28	peak
3	5960.800	57.99	-5.58	52.41	68.20	-15.79	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.800	109.00	-6.31	102.69	135.00	-32.31	peak
2	5940.800	57.65	-5.69	51.96	68.20	-16.24	peak
3	5983.600	57.29	-5.45	51.84	68.20	-16.36	peak



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7.10 Frequency Stability

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

7.10.1 E.U.T. Operation

Operating Environment:

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

Test mode: g:Charge + TX mode (Band 1)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

h:Charge + TX mode (Band 2A)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

i:Charge + TX mode (Band 2C)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

j:Charge + TX mode (Band 3)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.



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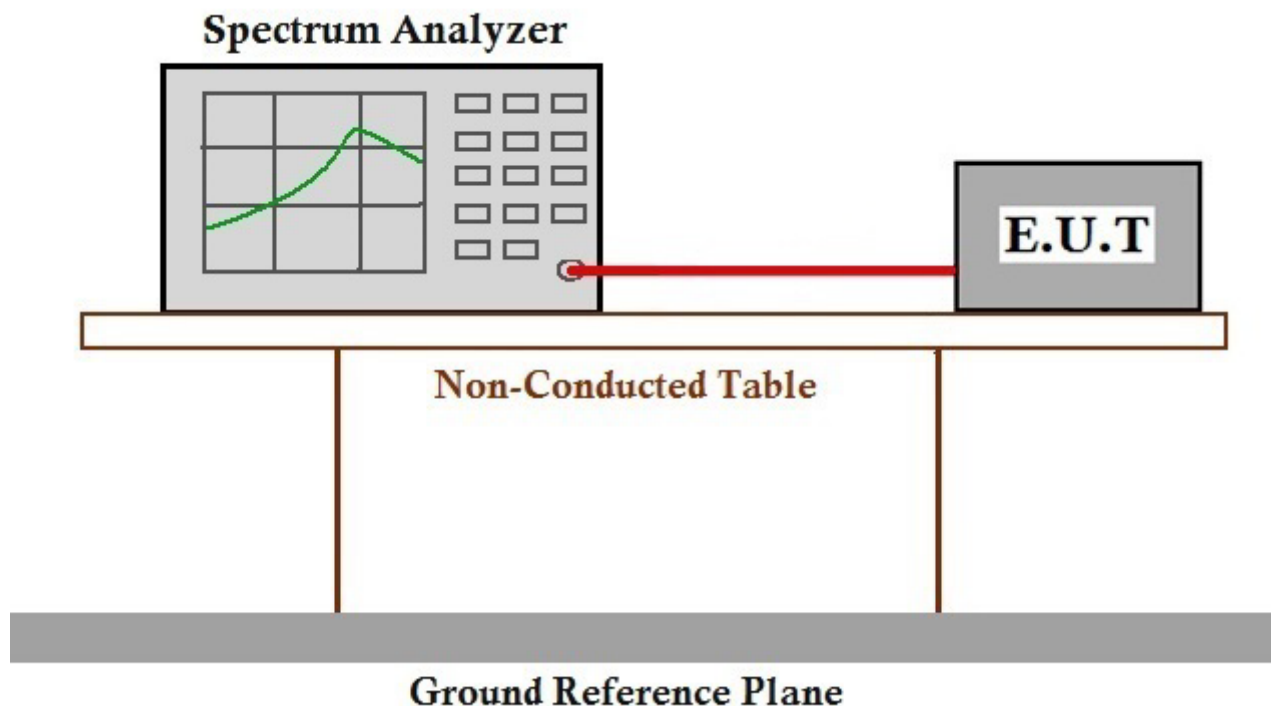
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7.10.2 Test Setup Diagram



7.10.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR220100008502



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7.11 99% Bandwidth

Test Requirement RSS-Gen Section 6.7

Test Method: ANSI C63.10 Section 6.9.3

7.11.1 E.U.T. Operation

Operating Environment:

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

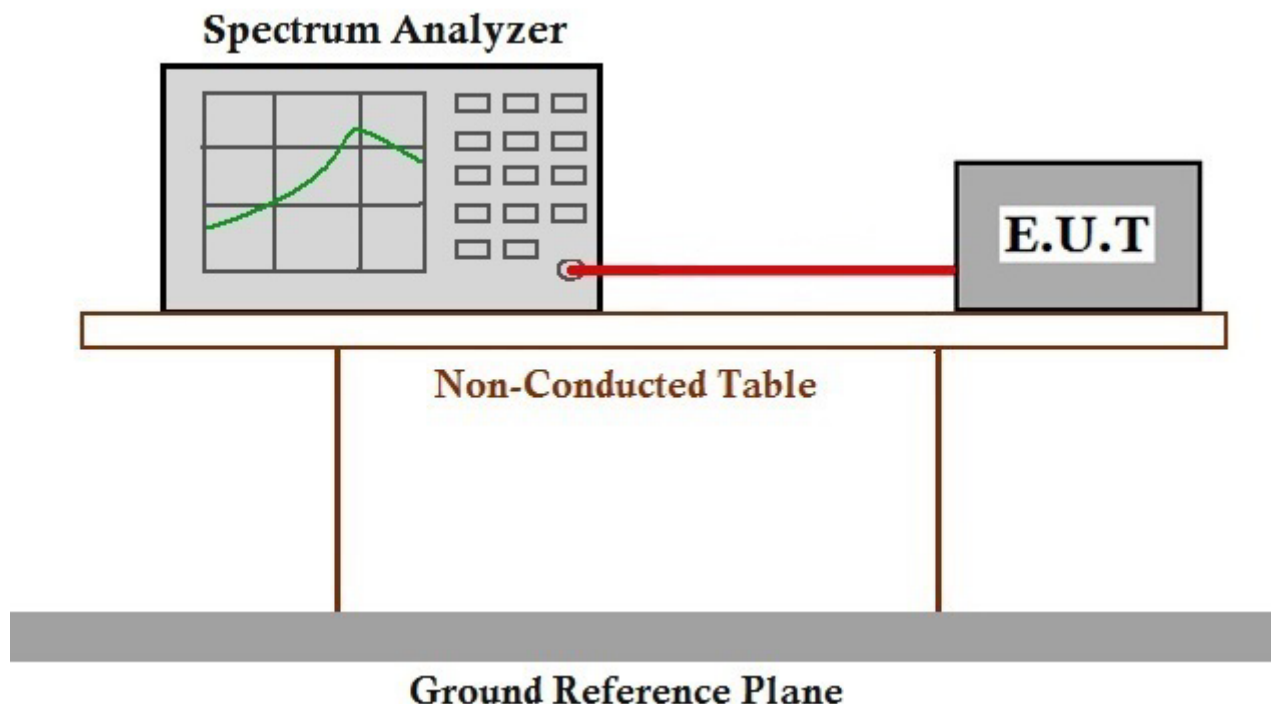
Test mode: g:Charge + TX mode (Band 1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20).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

h:Charge + TX mode (Band 2A)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

i:Charge + TX mode (Band 2C)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

j:Charge + TX mode (Band 3)_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.

7.11.2 Test Setup Diagram



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7.11.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR220100008502



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8 Test Setup Photographs

Refer to the < Test Setup photos >.

9 EUT Constructional Details

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

- End of the Report -



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