

# TEST REPORT

**Application No.:** SHEM2009007442CR  
**FCC ID:** 2AWSZ-SP10  
**Applicant:** Intamsys Technology Co., Ltd  
**Address of Applicant:** 3rd Floor Building C9, No.3188 Xiupu Road, shanghai 201315 China  
**Manufacturer:** Intamsys Technology Co., Ltd  
**Address of Manufacturer:** 3rd Floor Building C9, No.3188 Xiupu Road, shanghai 201315 China  
**Factory:** Intamsys Technology Co., Ltd  
**Address of Factory:** 3rd Floor Building C9, No.3188 Xiupu Road, shanghai 201315 China  
**Equipment Under Test (EUT):**  
**EUT Name:** 3D Printer Display  
**Model No.:** WAR-101C-SP10  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2020-09-09  
**Date of Test:** 2020-12-29 to 2021-01-05  
**Date of Issue:** 2021-01-11

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

*Parlam Zhan*

Parlam Zhan  
E&E Section Manager

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

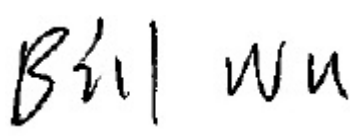
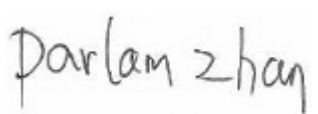


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Revision Record			
Version	Description	Date	Remark
00	Original	2021-01-11	/

<b>Authorized for issue by:</b>			
			
		<hr/>	
		<b>Bill Wu / Project Engineer</b>	
			
		<hr/>	
		<b>Parlam Zhan / Reviewer</b>	



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## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Customer Declaration

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass



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## 4 General Information

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

Power Supply:	DC 24 V
Test Voltage:	DC 24V
Antenna Gain:	3dBi(Provided by client)
Antenna Type:	Dipole Antenna
Channel Spacing:	5MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11 802.11n(HT40):7
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.

### 4.3 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
1	46	54	54
6	46	54	54
11	46	54	54
Channel	802.11n(HT40)		
3	52		
6	52		
9	52		



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#### 4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.1dB (Below 1GHz)
		4.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

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



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#### 4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch

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

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

#### 4.6 Test Facility

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

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

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **NVLAP (LAB CODE: 201034-0)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

- **FCC (Designation Number: CN5033)**

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

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

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

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

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

#### 4.7 Deviation from Standards

None

#### 4.8 Abnormalities from Standard Conditions

None



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## 5 Equipment List

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



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 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 permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is dipole antenna and no consideration of replacement. The best case gain of the antenna is 3dBi.

Antenna location: Refer to Appendix (External Photos)



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## 7 Radio Spectrum Matter Test Results

### 7.1 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)  
Test Method: ANSI C63.10 (2013) Section 11.8.1  
Limit:  $\geq 500$  kHz

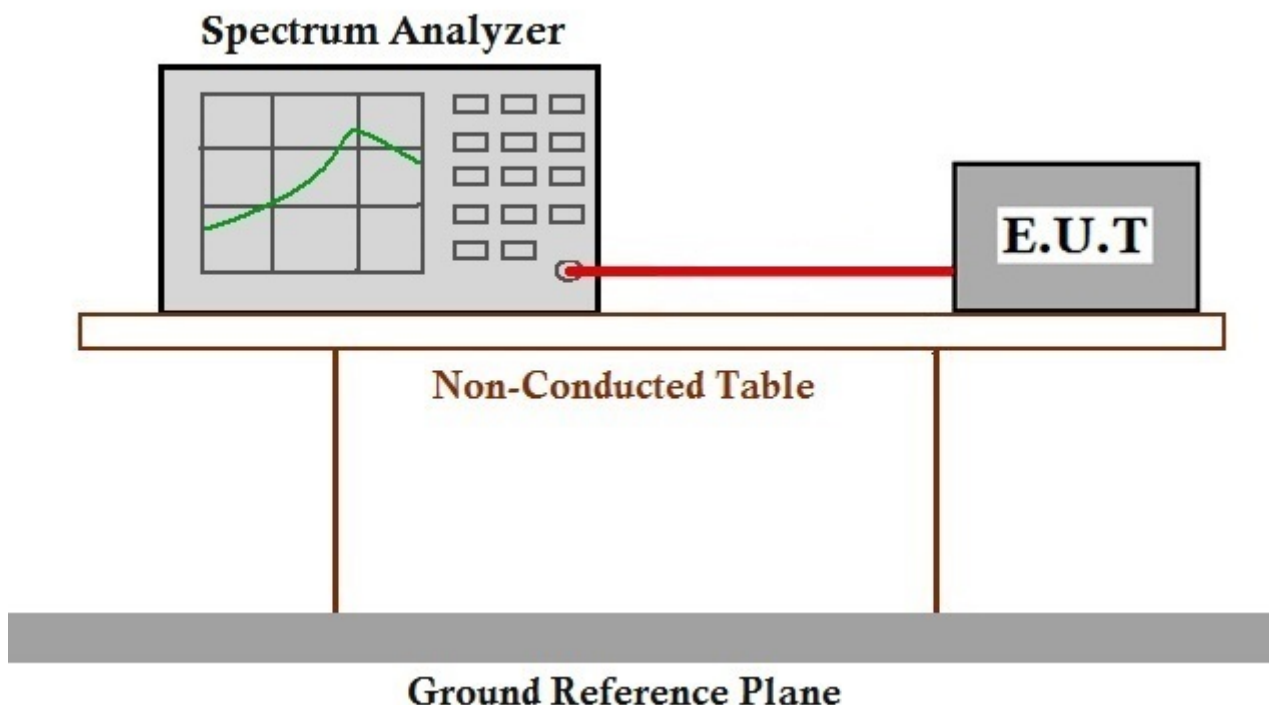
#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode\_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

#### 7.1.2 Test Setup Diagram



#### 7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM200900744201



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## 7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)  
Test Method: ANSI C63.10 (2013) Section 11.9.1  
Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for $\geq 50$ hopping channels
	0.25 for $25 \leq$ hopping channels $< 50$
	1 for digital modulation
2400-2483.5	1 for $\geq 75$ non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

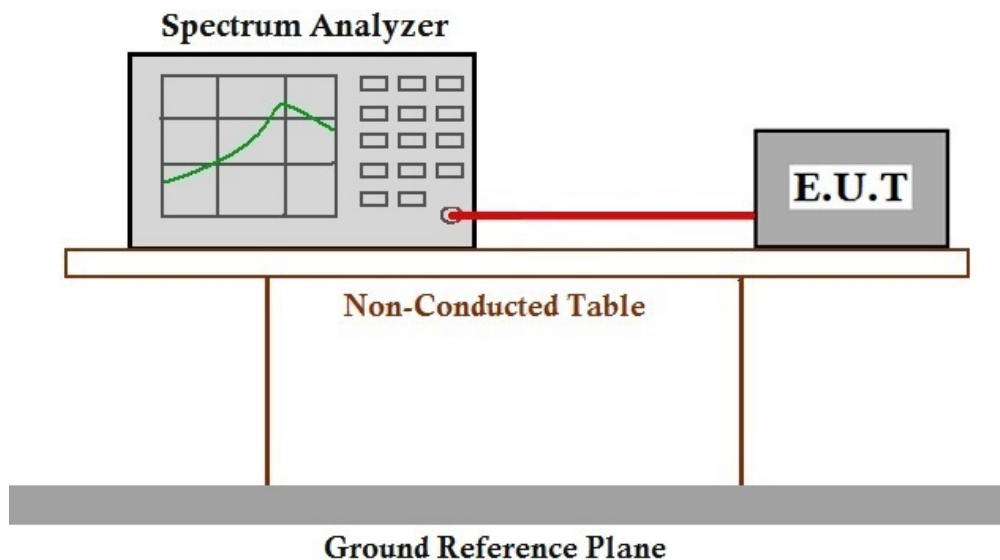
### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode\_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

### 7.2.2 Test Setup Diagram



### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM200900744201



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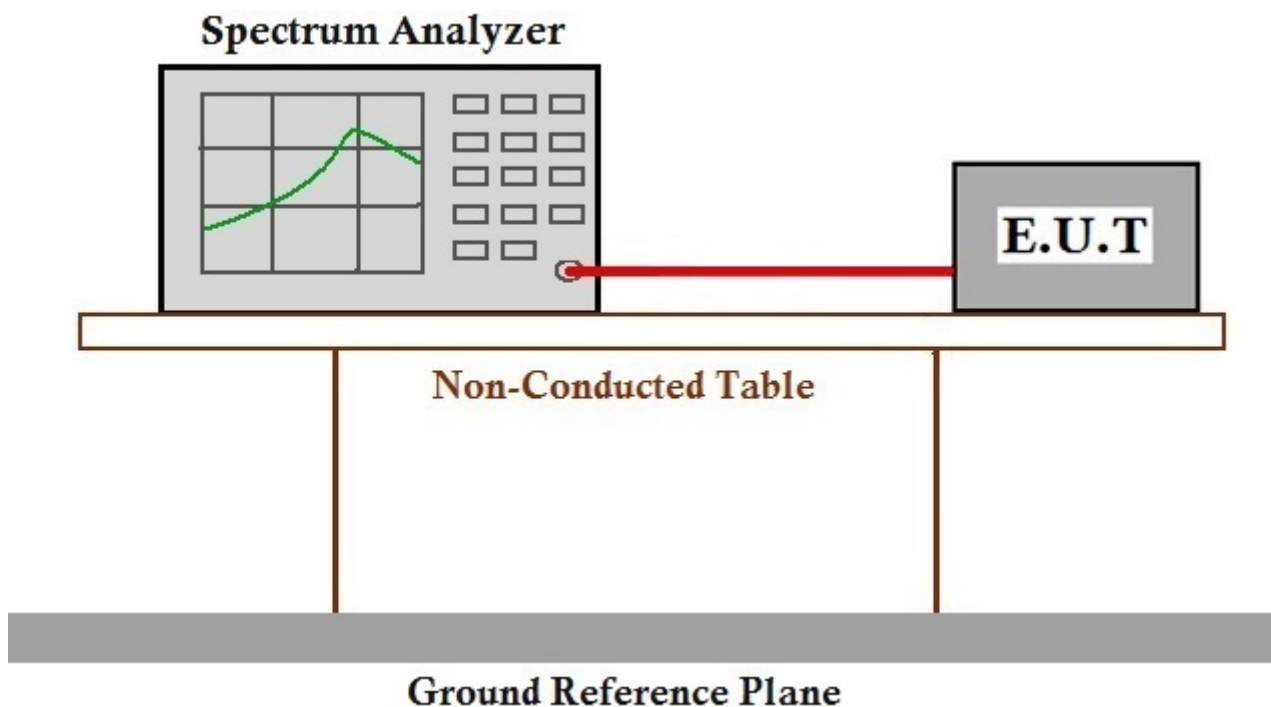
### 7.3 Power Spectrum Density

Test Requirement: 47 CFR Part 15, Subpart C 15.247(e)  
 Test Method: ANSI C63.10 (2013) Section 11.10.2  
 Limit: ≤8dBm in any 3 kHz band during any time interval of continuous transmission

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

Operating Environment:  
 Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar  
 Test mode: a:TX mode\_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

#### 7.3.2 Test Setup Diagram



#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM200900744201



## 7.4 Conducted Band Edges Measurement

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.13.3.2
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))



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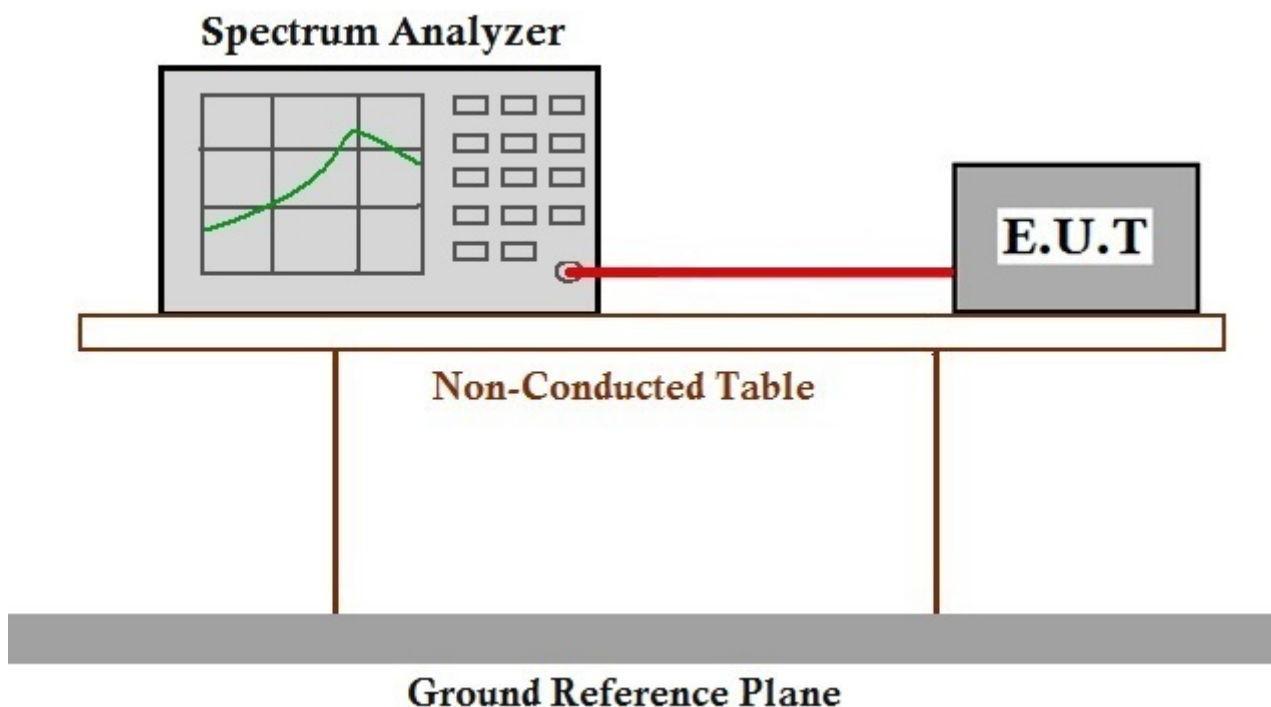
**7.4.1 E.U.T. Operation**

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode\_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). 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 A for SHEM200900744201



## 7.5 Conducted Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.11
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))



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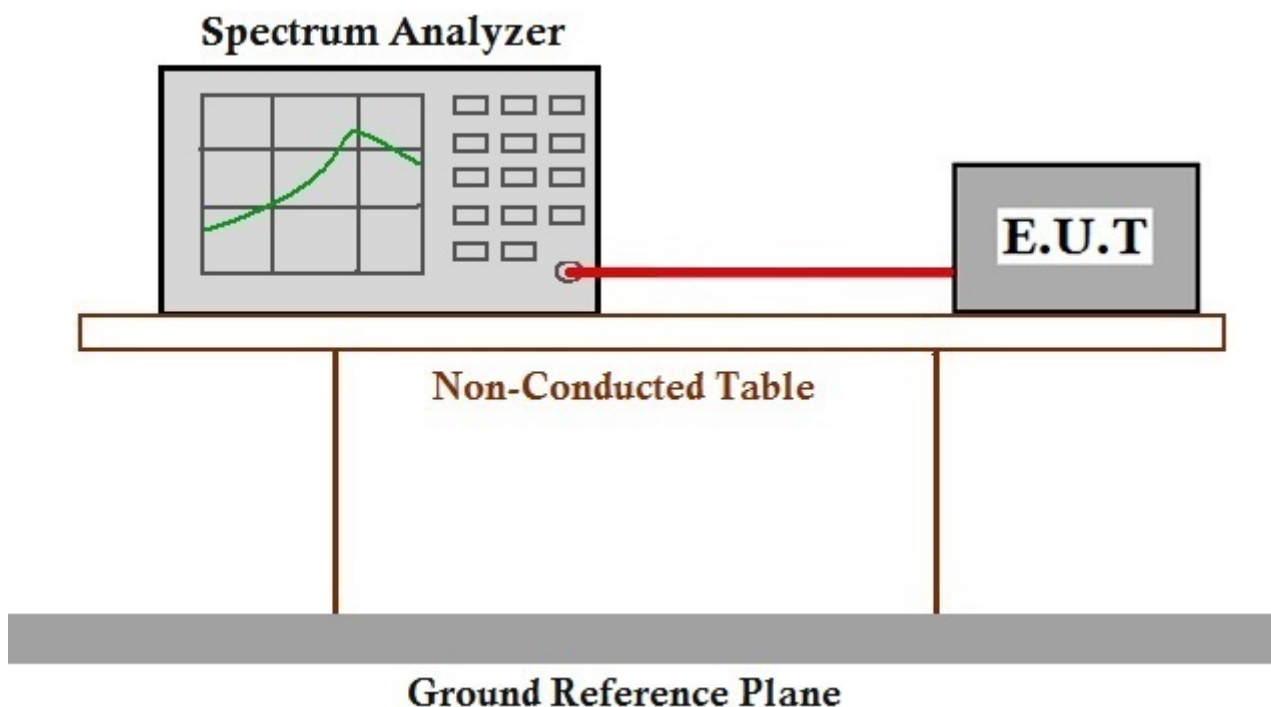
**7.5.1 E.U.T. Operation**

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode\_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). 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 A for SHEM200900744201



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中国·上海·松江区金都西路588号 邮编: 201612 (86-21) 61915666 f(86-21)61915678 e sgs.china@sgs.com



### 7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)  
Test Method: ANSI C63.10 (2013) Section 6.10.5  
Limit:

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

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



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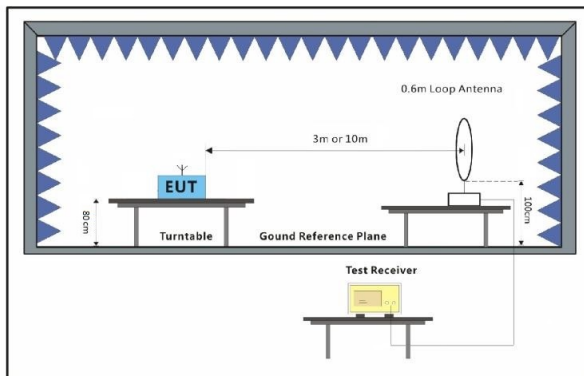
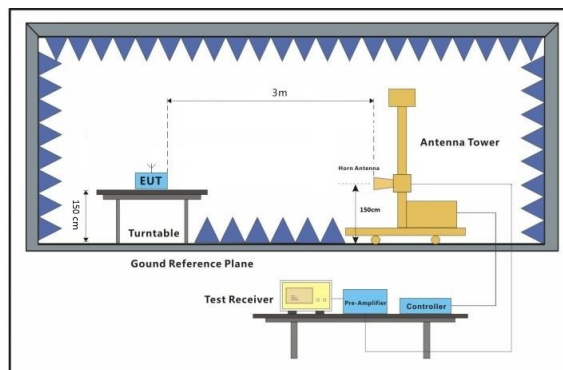
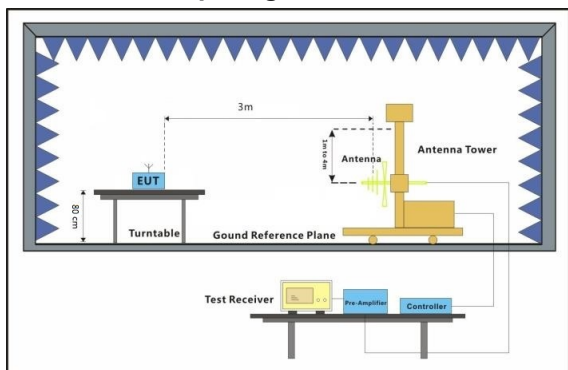
**7.6.1 E.U.T. Operation**

Operating Environment:

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

Test mode a:TX mode\_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

**7.6.2 Test Setup Diagram**



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### 7.6.3 Measurement Procedure and Data

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

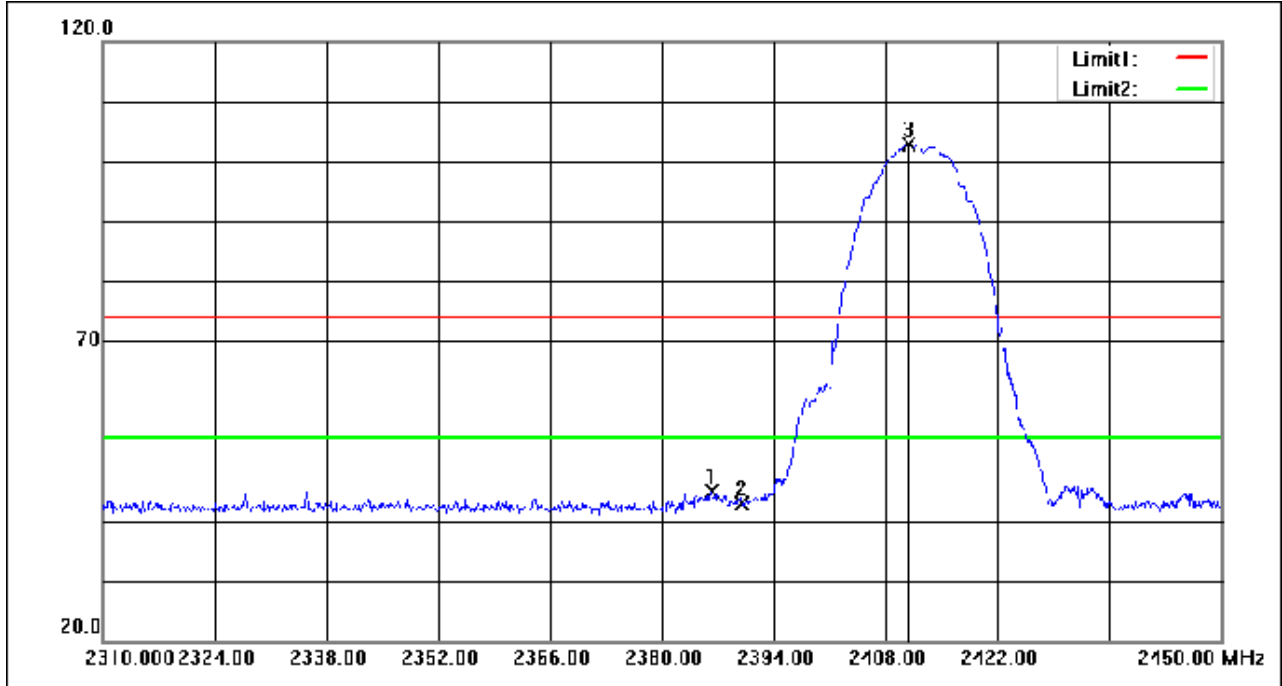
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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



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



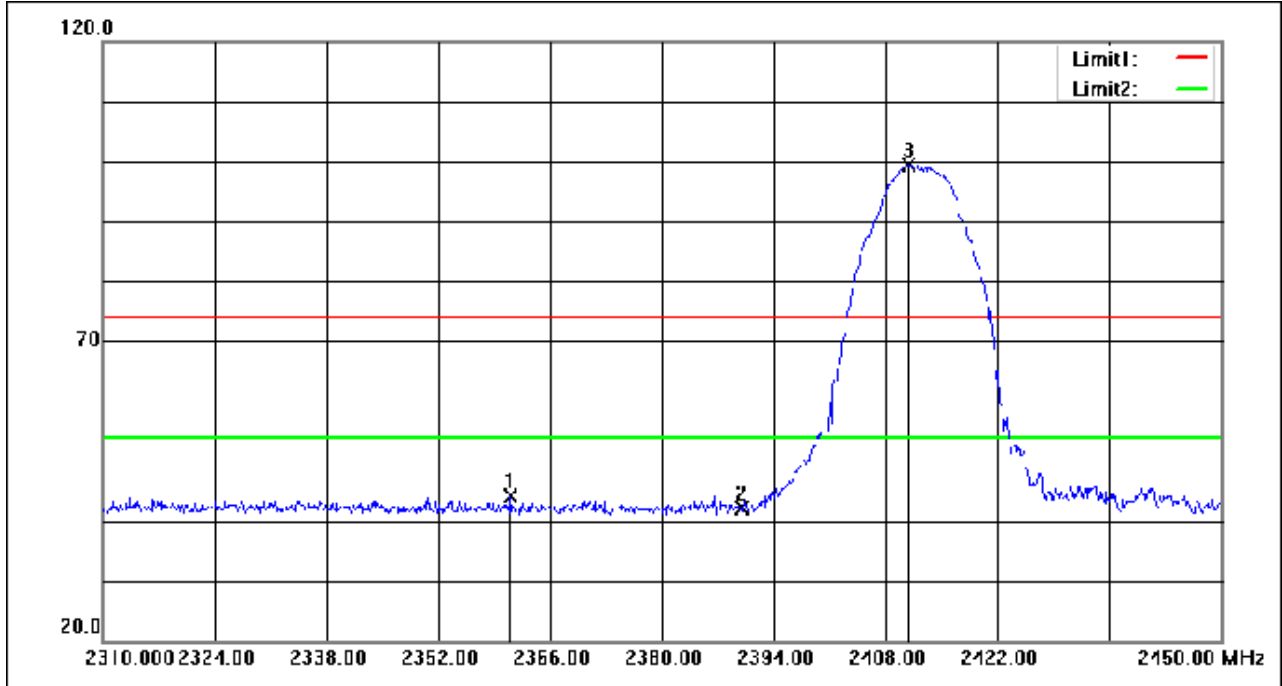
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2386.160	49.17	-4.25	44.92	74.00	-29.08	peak
2	2390.000	47.09	-4.24	42.85	74.00	-31.15	peak
3	2410.800	107.16	-4.19	102.97	74.00	28.97	peak



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

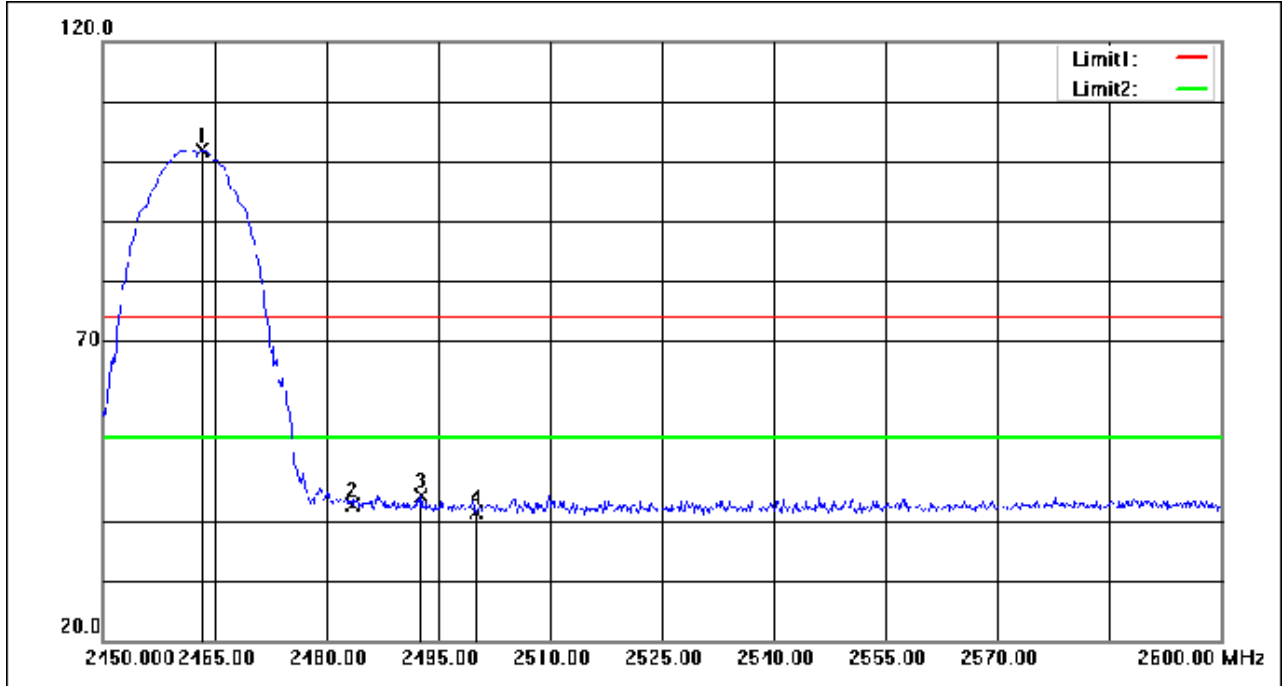


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2361.100	48.51	-4.32	44.19	74.00	-29.81	peak
2	2390.000	46.31	-4.24	42.07	74.00	-31.93	peak
3	2410.940	103.56	-4.19	99.37	74.00	25.37	peak



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

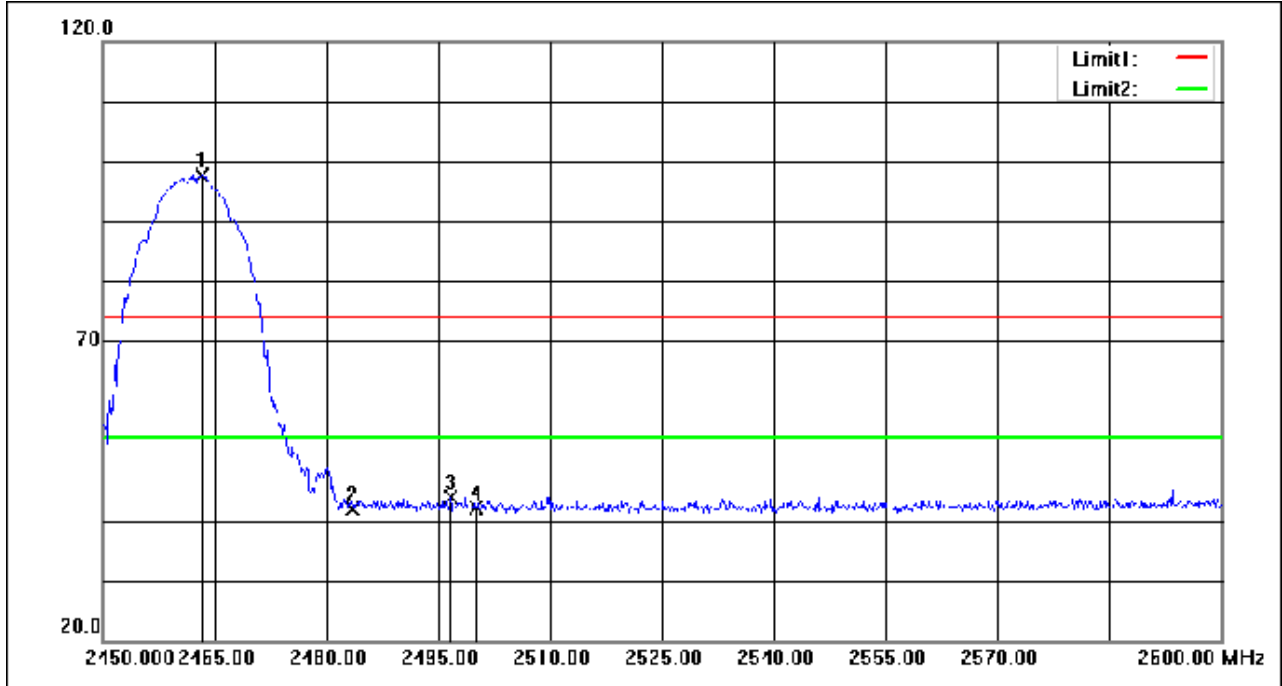


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2463.350	106.02	-4.05	101.97	74.00	27.97	peak
2	2483.500	46.75	-4.00	42.75	74.00	-31.25	peak
3	2492.750	48.11	-3.98	44.13	74.00	-29.87	peak
4	2500.000	45.46	-3.96	41.50	74.00	-32.50	peak



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

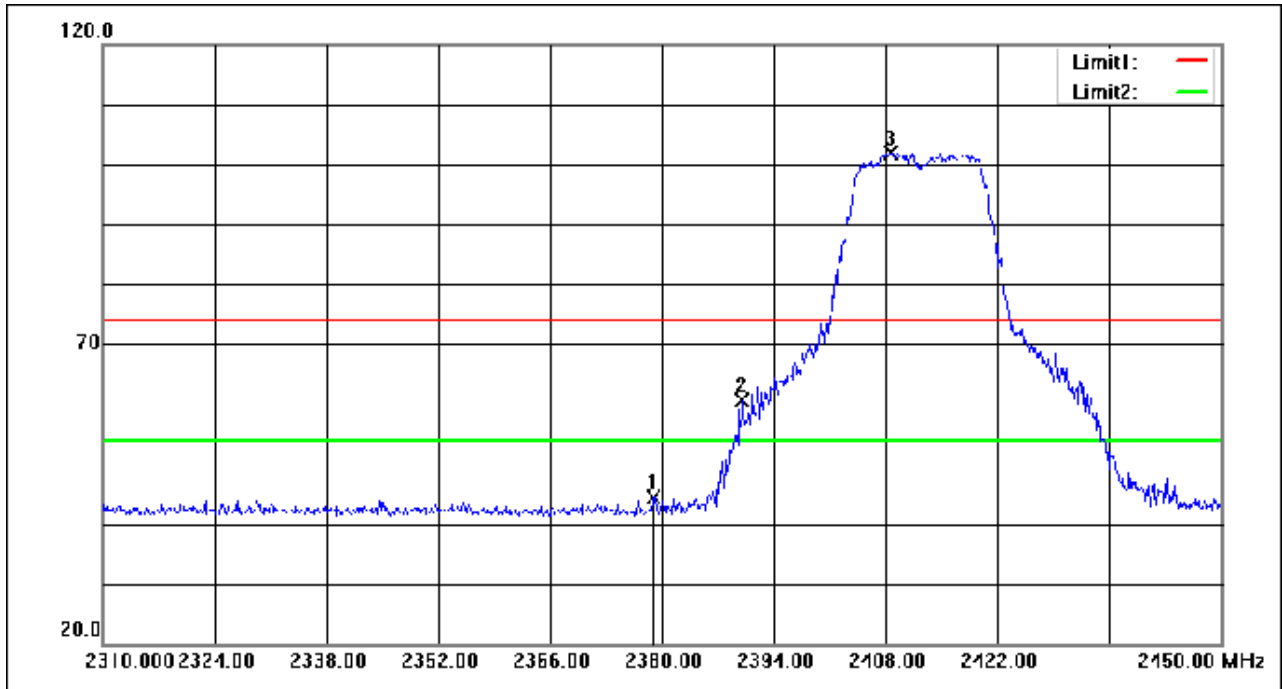


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2463.350	101.66	-4.05	97.61	74.00	23.61	peak
2	2483.500	46.00	-4.00	42.00	74.00	-32.00	peak
3	2496.650	47.96	-3.97	43.99	74.00	-30.01	peak
4	2500.000	46.12	-3.96	42.16	74.00	-31.84	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2379.020	48.61	-4.27	44.34	74.00	-29.66	peak
2	2390.000	64.94	-4.24	60.70	74.00	-13.30	peak
3	2408.700	106.10	-4.20	101.90	74.00	27.90	peak

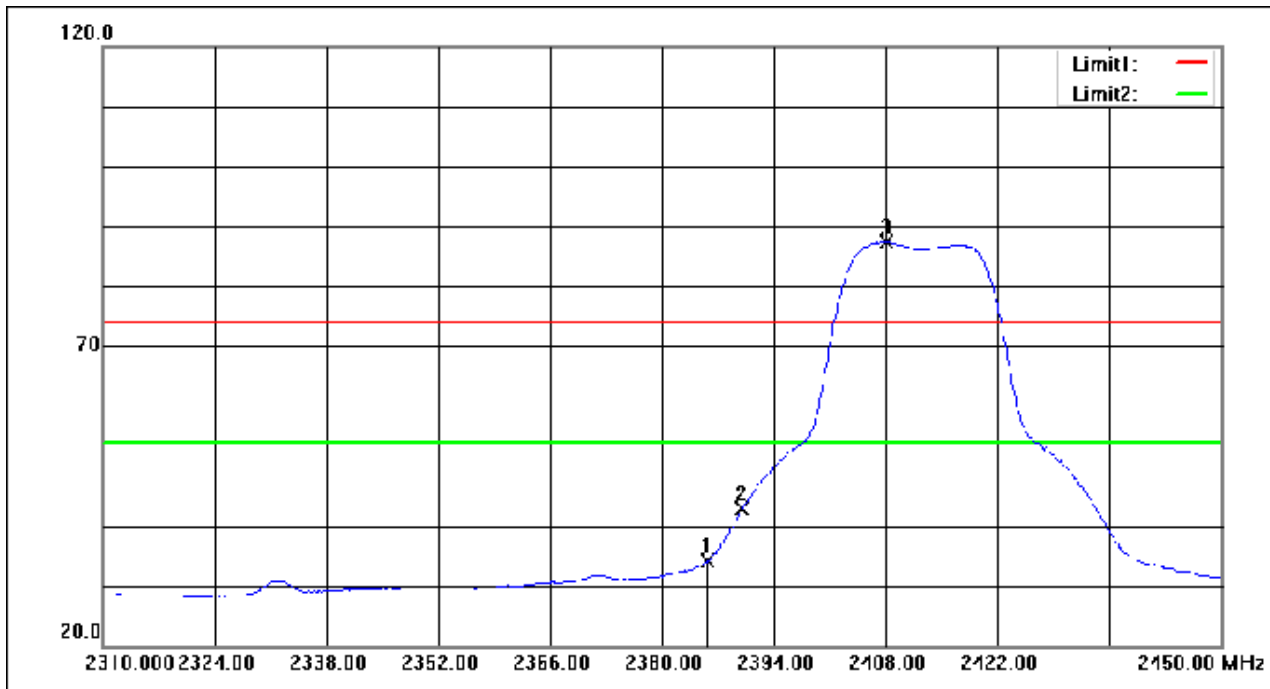


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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low

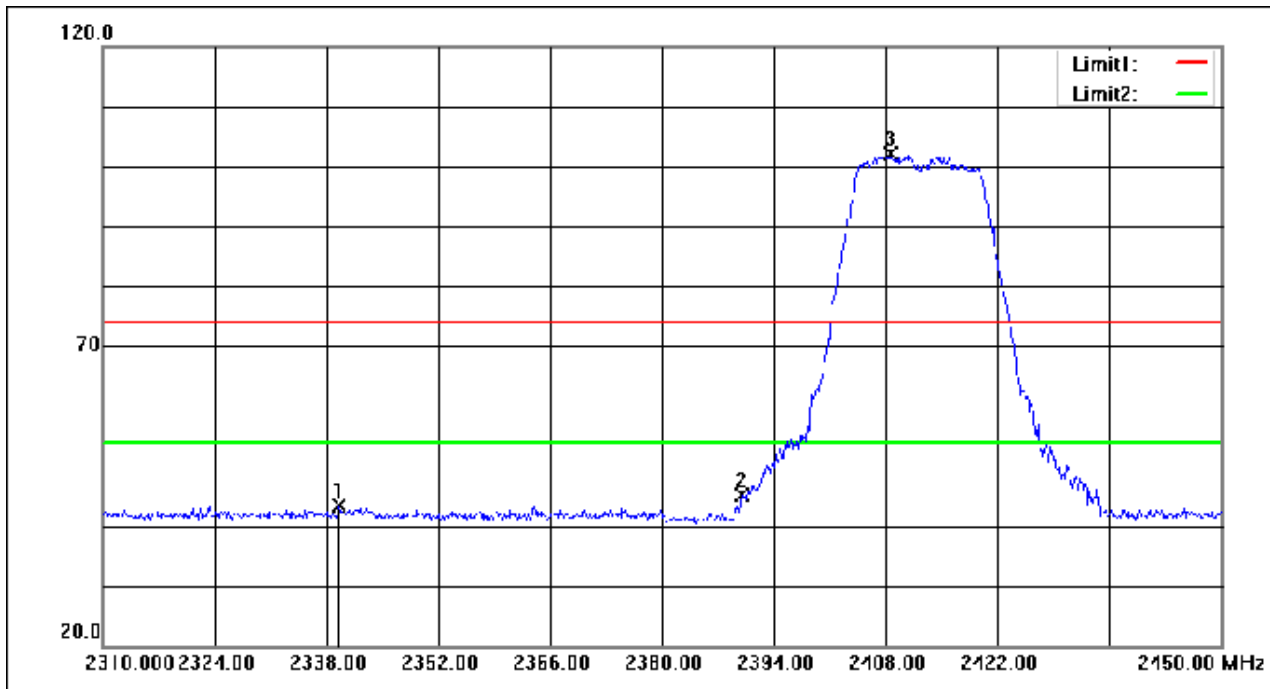


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2385.740	38.43	-4.25	34.18	54.00	-19.82	AVG
2	2390.000	47.04	-4.24	42.80	54.00	-11.20	AVG
3	2408.000	91.58	-4.20	87.38	54.00	33.38	AVG



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

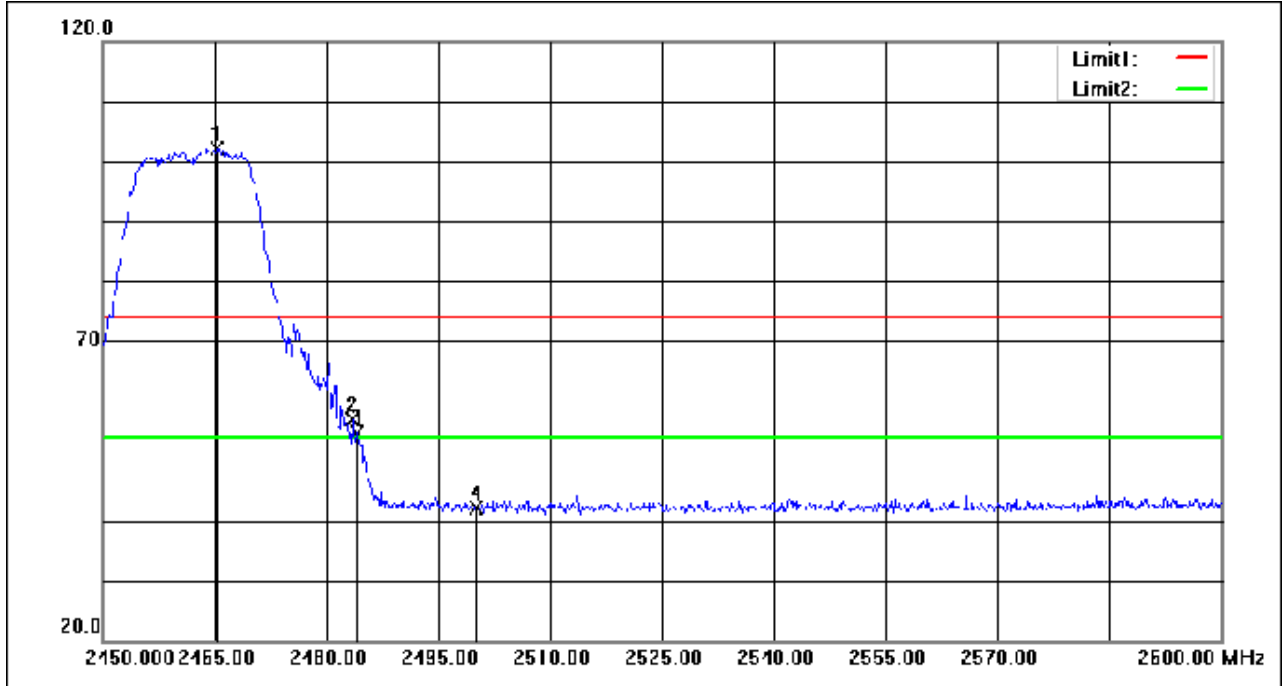


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2339.540	47.85	-4.37	43.48	74.00	-30.52	peak
2	2390.000	49.33	-4.24	45.09	74.00	-28.91	peak
3	2408.700	106.39	-4.20	102.19	74.00	28.19	peak



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

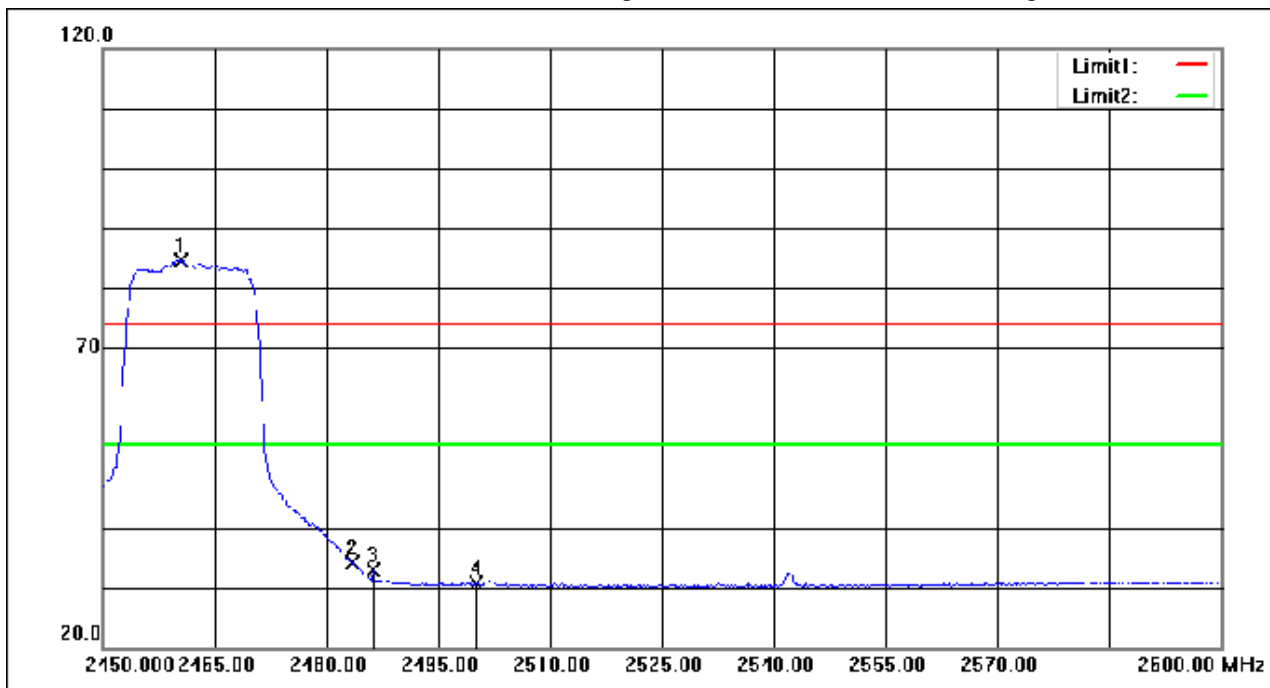


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2465.300	106.30	-4.05	102.25	74.00	28.25	peak
2	2483.500	60.87	-4.00	56.87	74.00	-17.13	peak
3	2484.050	58.74	-4.00	54.74	74.00	-19.26	peak
4	2500.000	46.15	-3.96	42.19	74.00	-31.81	peak



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

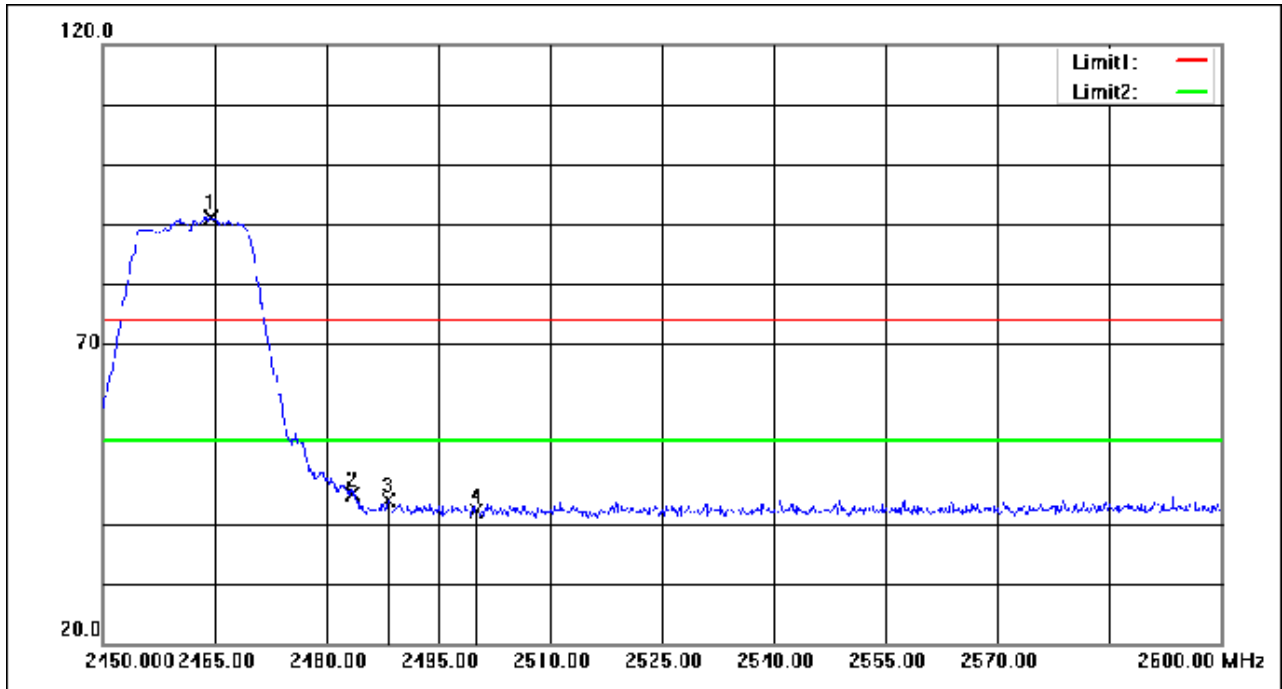


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2460.500	88.74	-4.06	84.68	54.00	30.68	AVG
2	2483.500	38.20	-4.00	34.20	54.00	-19.80	AVG
3	2486.300	36.90	-4.00	32.90	54.00	-21.10	AVG
4	2500.000	34.49	-3.96	30.53	54.00	-23.47	AVG



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

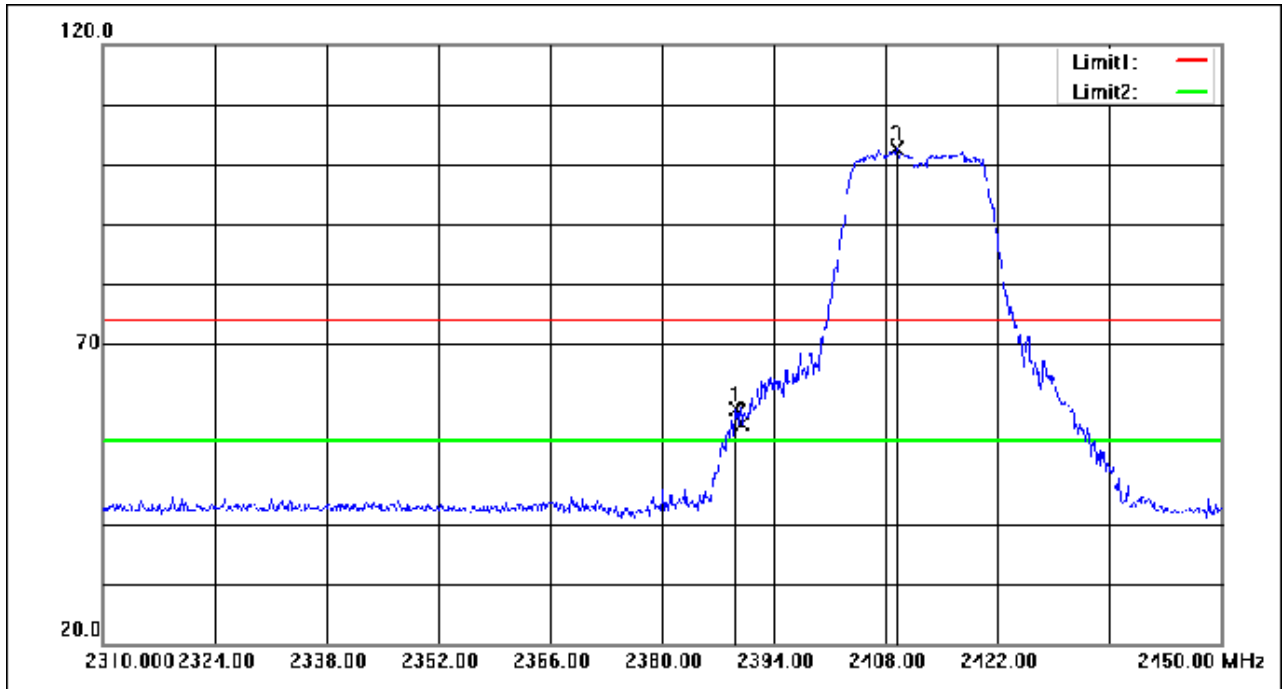


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2464.400	95.29	-4.05	91.24	74.00	17.24	peak
2	2483.500	48.96	-4.00	44.96	74.00	-29.04	peak
3	2488.250	47.98	-3.99	43.99	74.00	-30.01	peak
4	2500.000	46.02	-3.96	42.06	74.00	-31.94	peak



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

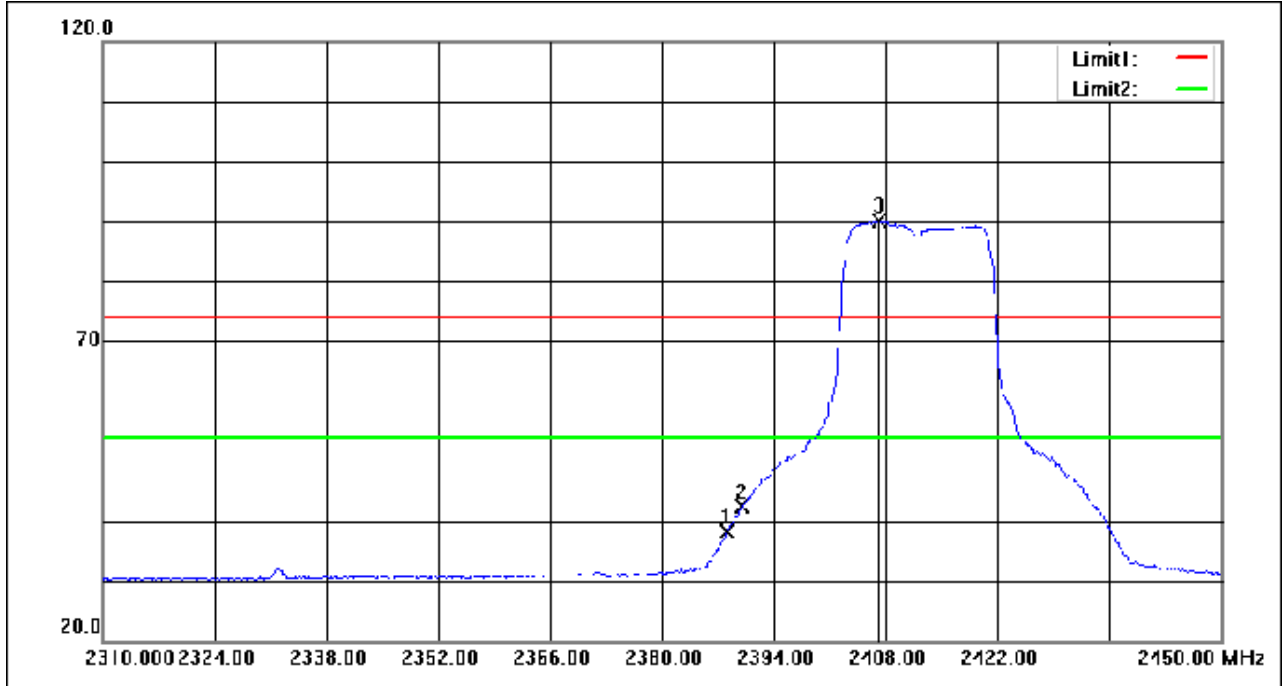


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2389.240	63.37	-4.25	59.12	74.00	-14.88	peak
2	2390.000	60.96	-4.24	56.72	74.00	-17.28	peak
3	2409.400	106.71	-4.19	102.52	74.00	28.52	peak



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

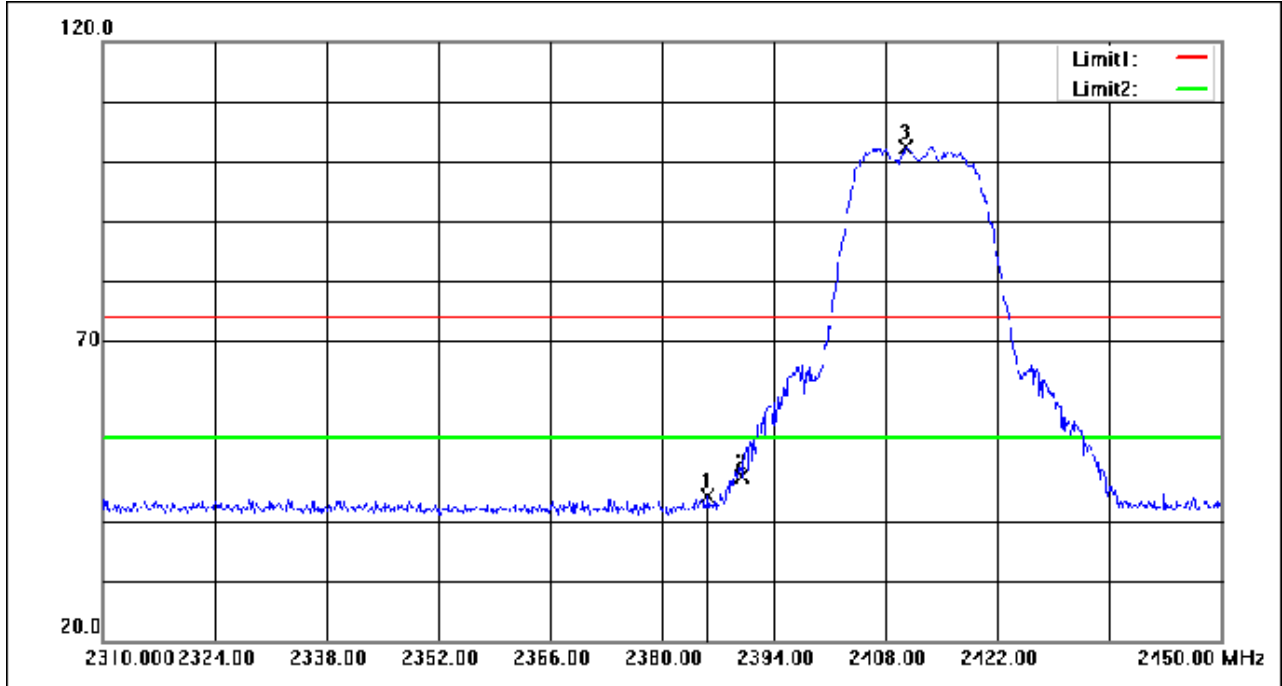


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2388.120	42.41	-4.25	38.16	54.00	-15.84	AVG
2	2390.000	46.50	-4.24	42.26	54.00	-11.74	AVG
3	2407.160	94.34	-4.20	90.14	54.00	36.14	AVG



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2385.740	48.28	-4.25	44.03	74.00	-29.97	peak
2	2390.000	51.65	-4.24	47.41	74.00	-26.59	peak
3	2410.520	106.62	-4.19	102.43	74.00	28.43	peak

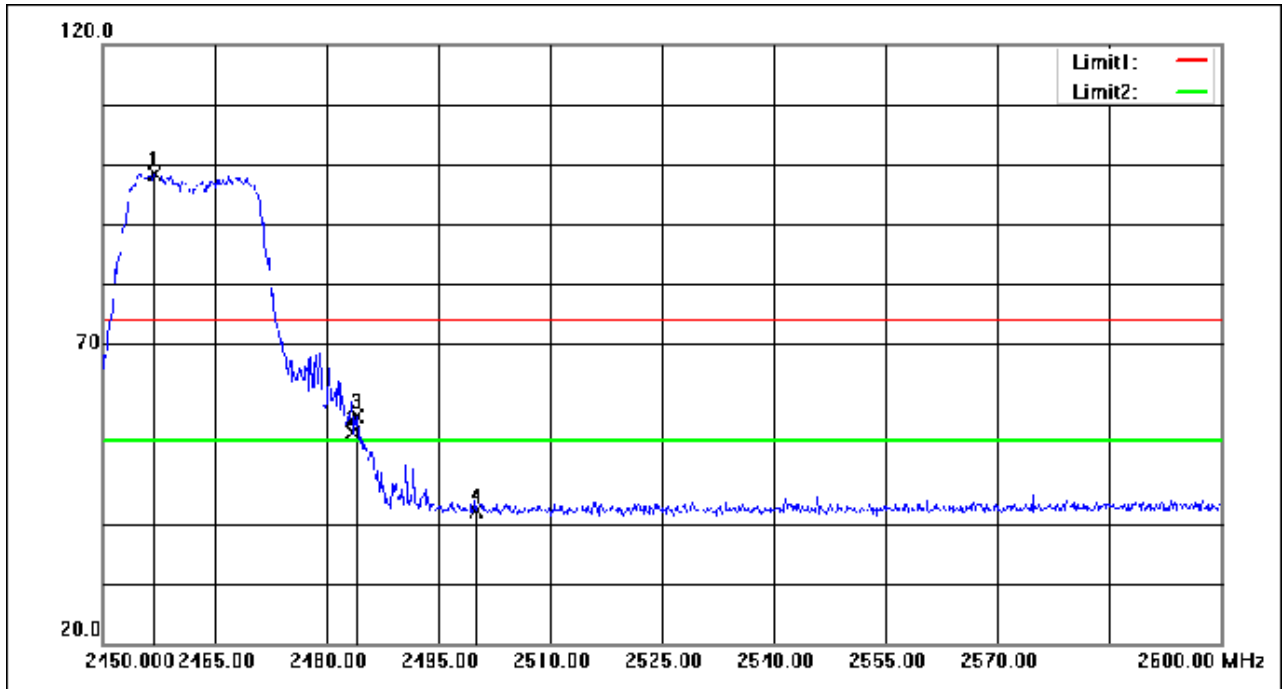


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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



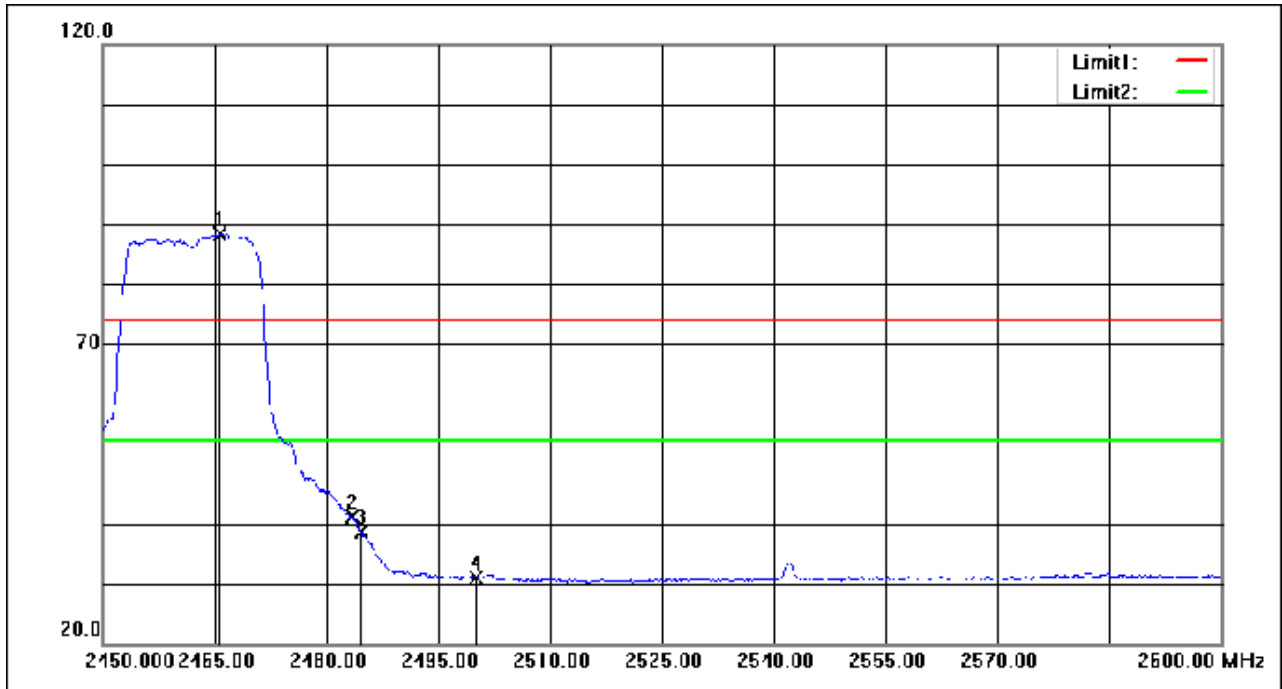
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2456.900	102.55	-4.07	98.48	74.00	24.48	peak
2	2483.500	59.13	-4.00	55.13	74.00	-18.87	peak
3	2484.050	61.94	-4.00	57.94	74.00	-16.06	peak
4	2500.000	46.11	-3.96	42.15	74.00	-31.85	peak



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



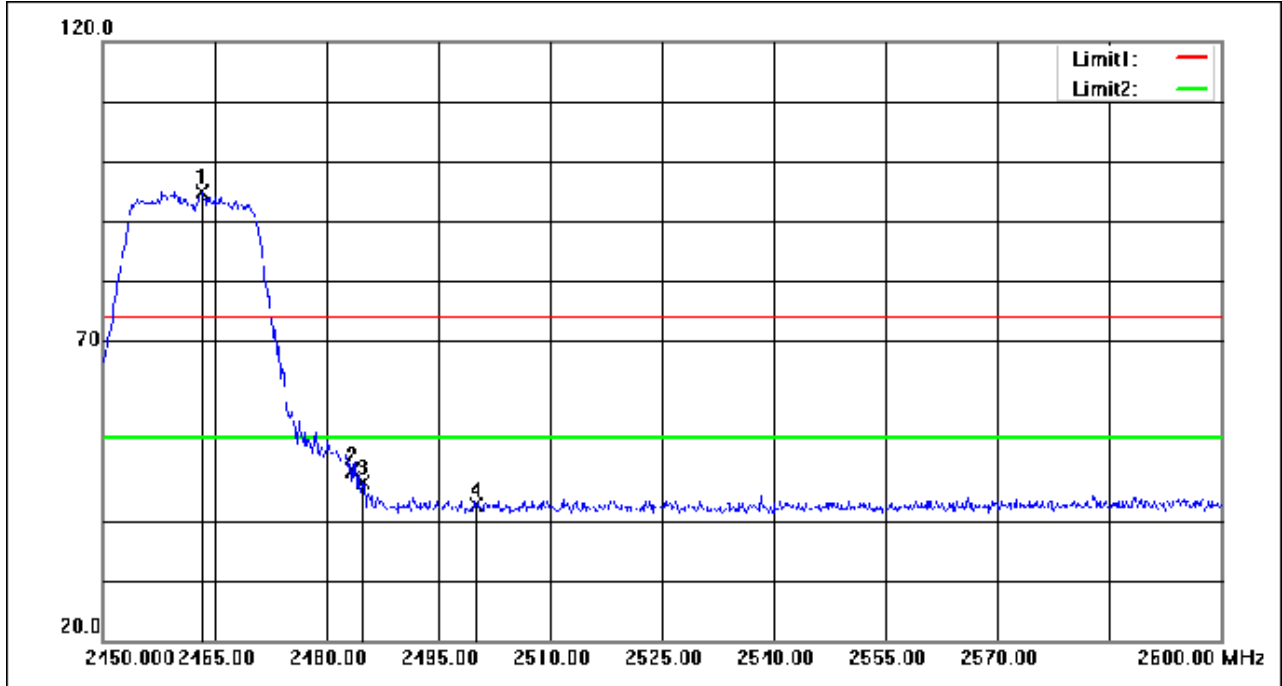
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2465.750	92.52	-4.05	88.47	54.00	34.47	AVG
2	2483.500	45.07	-4.00	41.07	54.00	-12.93	AVG
3	2484.650	42.54	-4.00	38.54	54.00	-15.46	AVG
4	2500.000	34.89	-3.96	30.93	54.00	-23.07	AVG



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



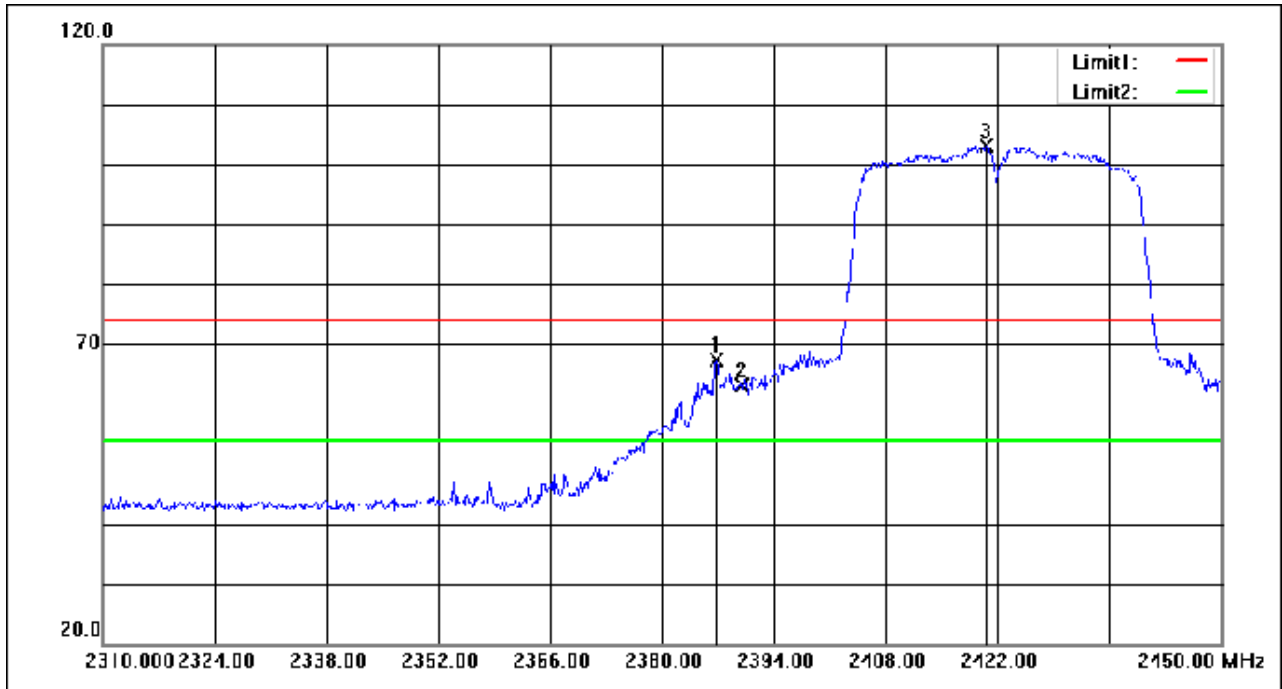
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	2463.350	98.93	-4.05	94.88	74.00	20.88	peak
2	2483.500	52.38	-4.00	48.38	74.00	-25.62	peak
3	2484.950	50.29	-4.00	46.29	74.00	-27.71	peak
4	2500.000	46.57	-3.96	42.61	74.00	-31.39	peak



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



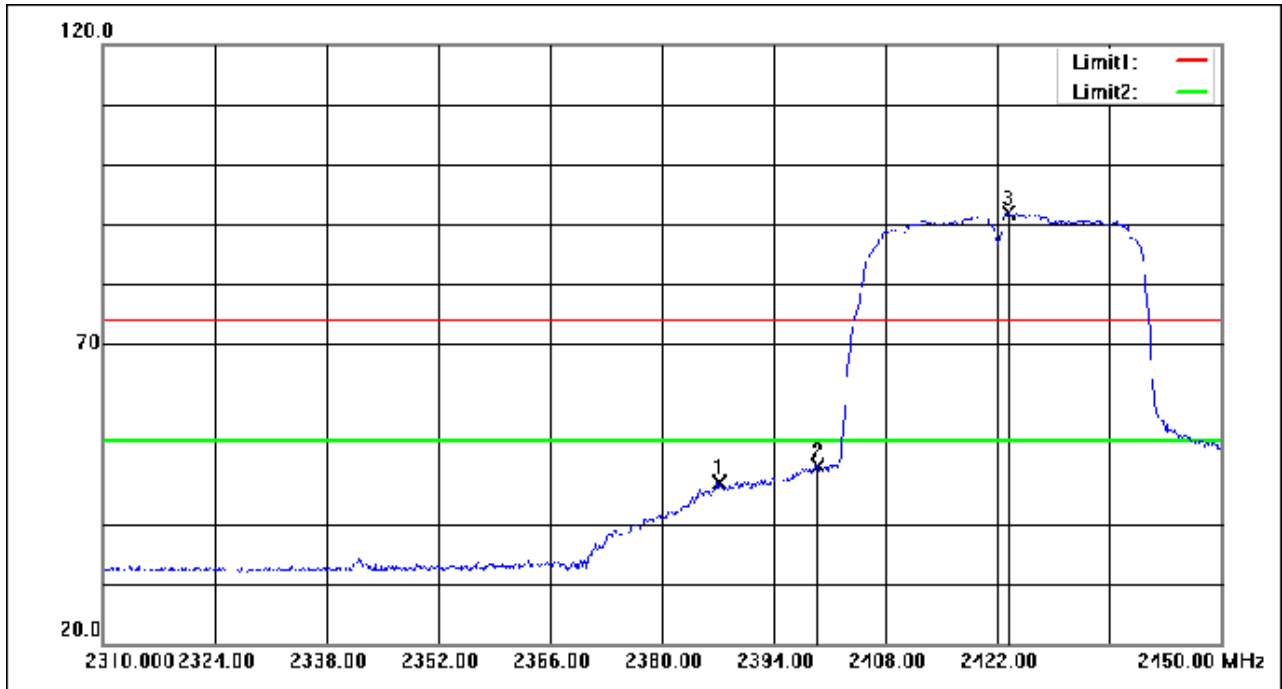
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2386.860	71.67	-4.25	67.42	74.00	-6.58	peak
2	2390.000	67.25	-4.24	63.01	74.00	-10.99	peak
3	2420.600	107.31	-4.16	103.15	74.00	29.15	peak



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

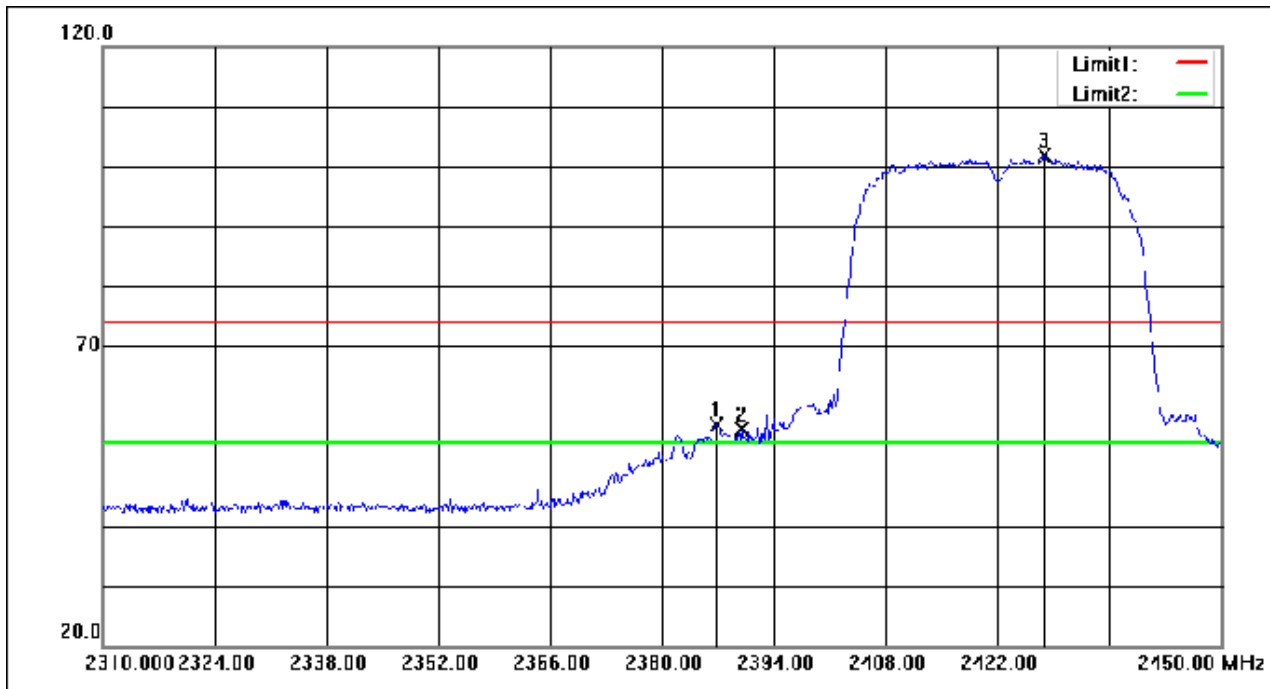


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2387.140	51.18	-4.25	46.93	54.00	-7.07	AVG
2	2399.460	53.77	-4.22	49.55	54.00	-4.45	AVG
3	2423.400	96.10	-4.16	91.94	54.00	37.94	AVG



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

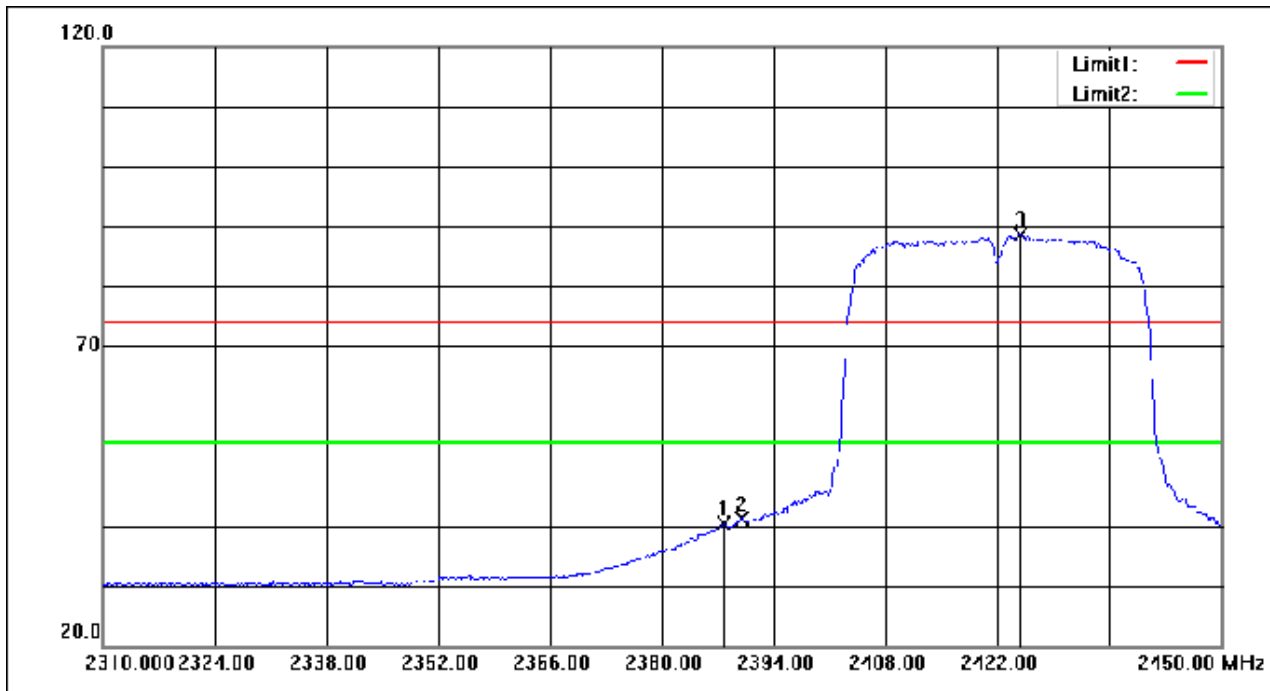


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2386.860	61.19	-4.25	56.94	74.00	-17.06	peak
2	2390.000	60.33	-4.24	56.09	74.00	-17.91	peak
3	2427.880	105.96	-4.15	101.81	74.00	27.81	peak



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

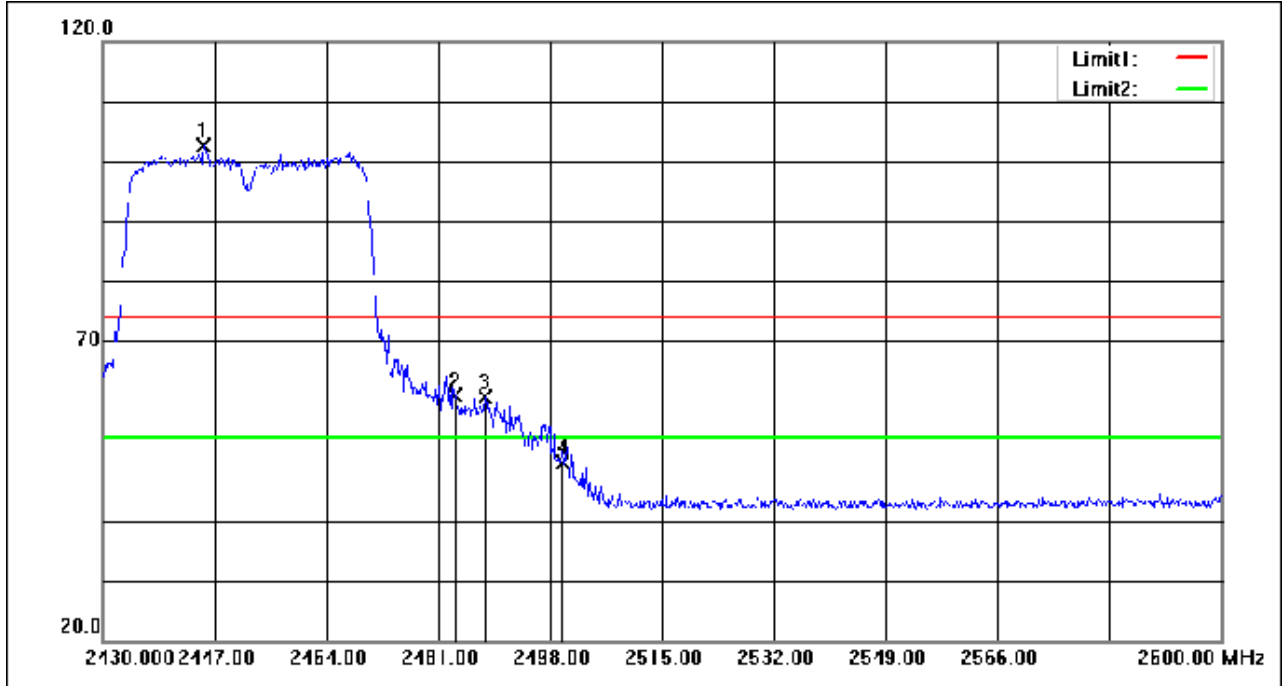


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2387.700	44.61	-4.25	40.36	54.00	-13.64	AVG
2	2390.000	45.40	-4.24	41.16	54.00	-12.84	AVG
3	2424.800	92.73	-4.15	88.58	54.00	34.58	AVG



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



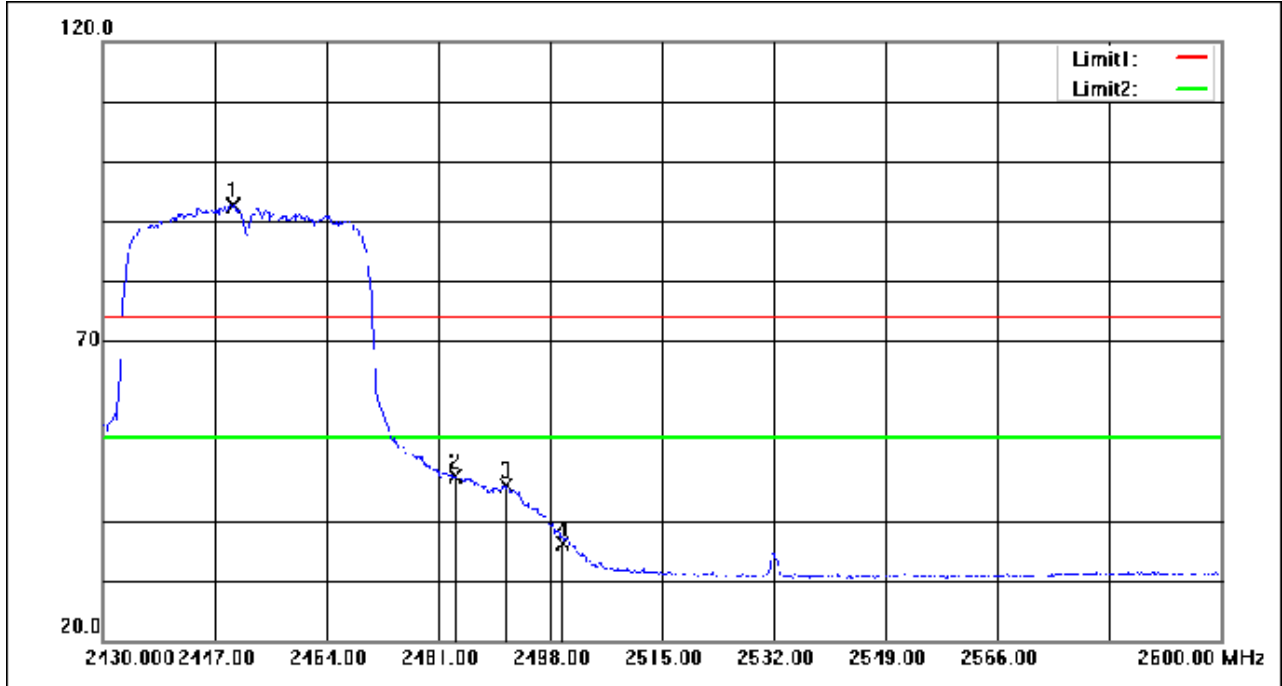
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2445.300	106.67	-4.10	102.57	74.00	28.57	peak
2	2483.500	64.82	-4.00	60.82	74.00	-13.18	peak
3	2488.140	64.69	-3.99	60.70	74.00	-13.30	peak
4	2500.000	53.59	-3.96	49.63	74.00	-24.37	peak



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



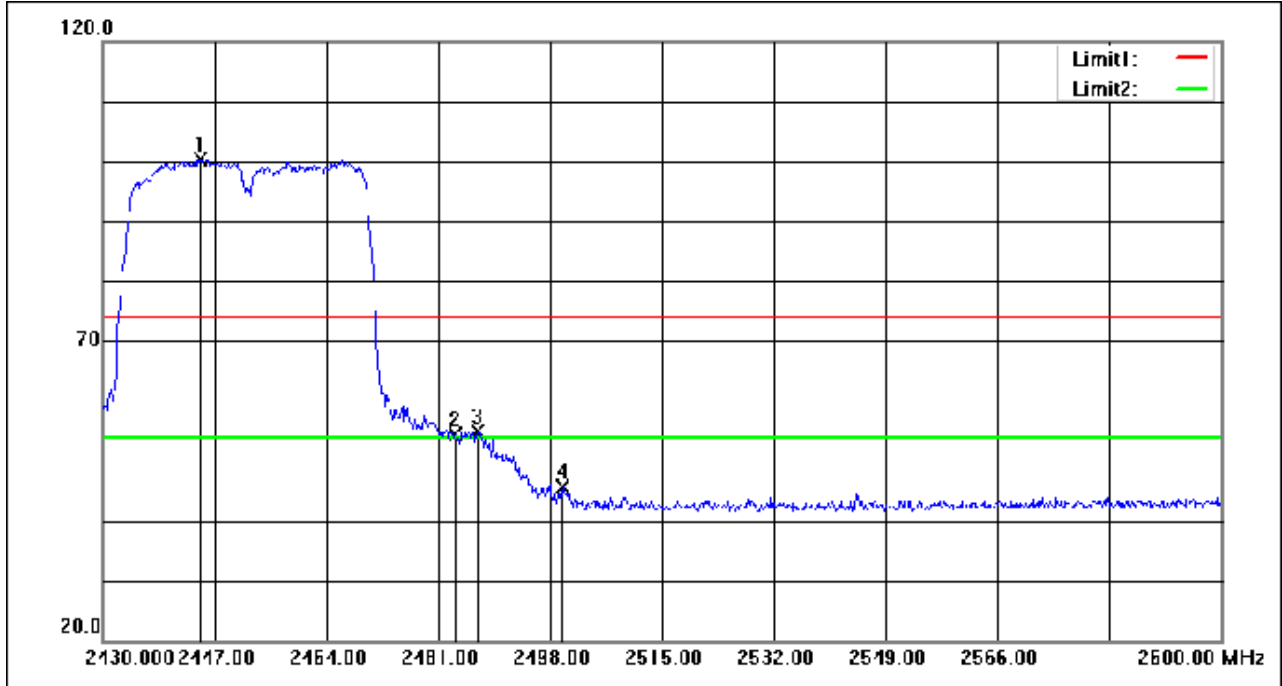
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2449.890	96.73	-4.09	92.64	54.00	38.64	AVG
2	2483.500	51.46	-4.00	47.46	54.00	-6.54	AVG
3	2491.370	49.75	-3.98	45.77	54.00	-8.23	AVG
4	2500.000	40.01	-3.96	36.05	54.00	-17.95	AVG



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

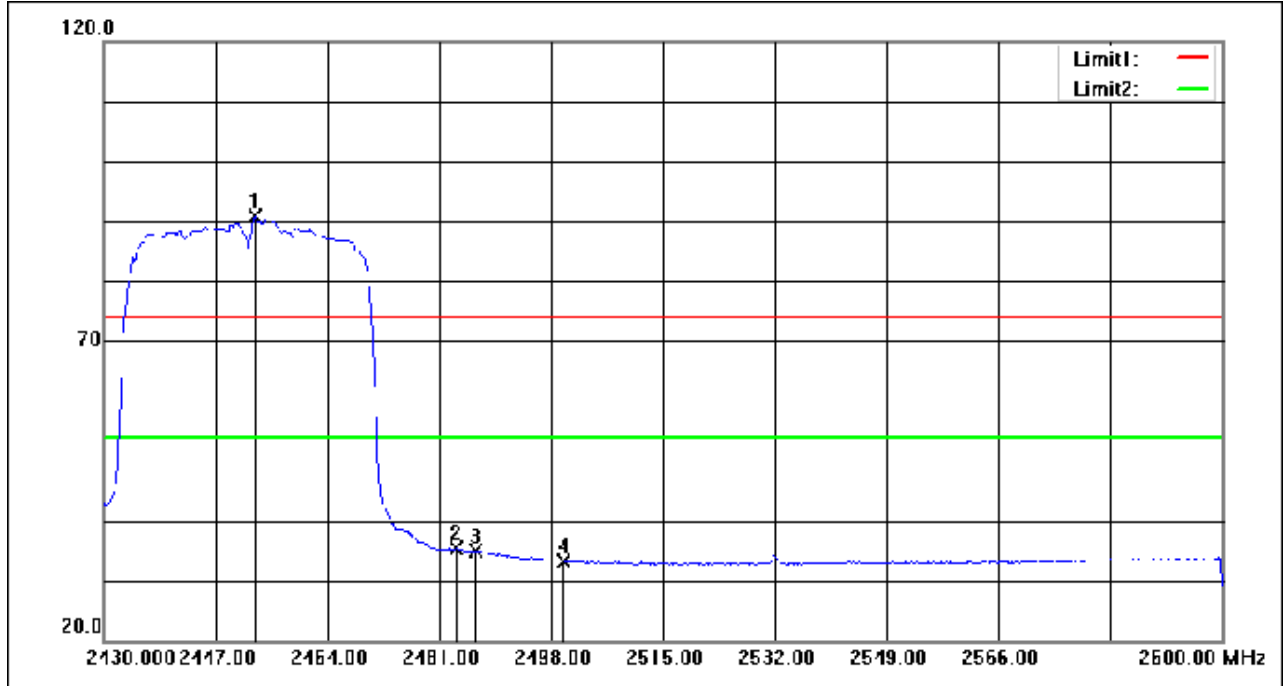


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2444.790	104.47	-4.10	100.37	74.00	26.37	peak
2	2483.500	58.41	-4.00	54.41	74.00	-19.59	peak
3	2486.950	58.86	-3.99	54.87	74.00	-19.13	peak
4	2500.000	49.53	-3.96	45.57	74.00	-28.43	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	2452.950	94.93	-4.08	90.85	54.00	36.85	AVG
2	2483.500	39.29	-4.00	35.29	54.00	-18.71	AVG
3	2486.610	38.97	-3.99	34.98	54.00	-19.02	AVG
4	2500.000	37.19	-3.96	33.23	54.00	-20.77	AVG



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### 7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)  
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6  
Limit:

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

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



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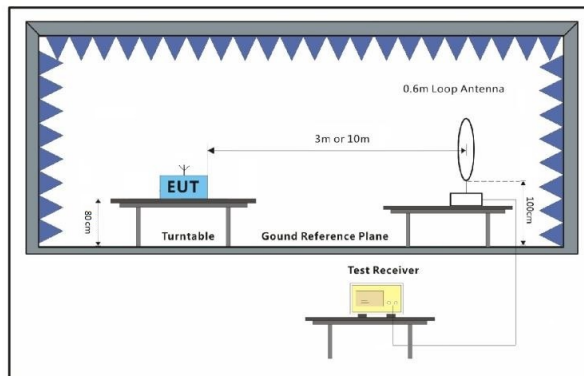
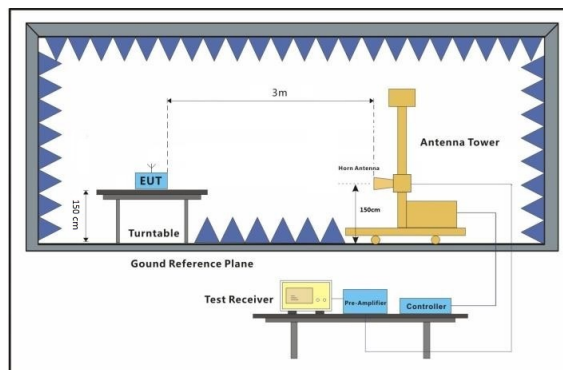
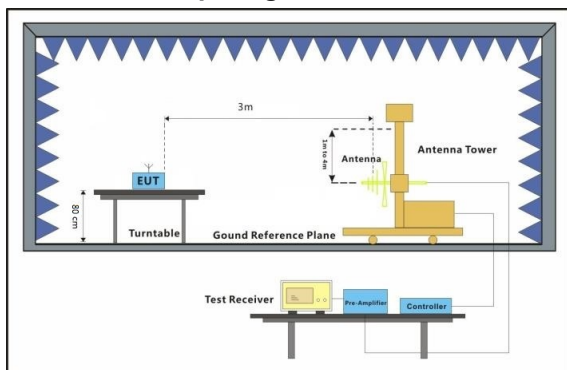
**7.7.1 E.U.T. Operation**

Operating Environment:

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

Test mode a:TX mode\_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

**7.7.2 Test Setup Diagram**



### 7.7.3 Measurement Procedure and Data

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

#### Remark:

1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

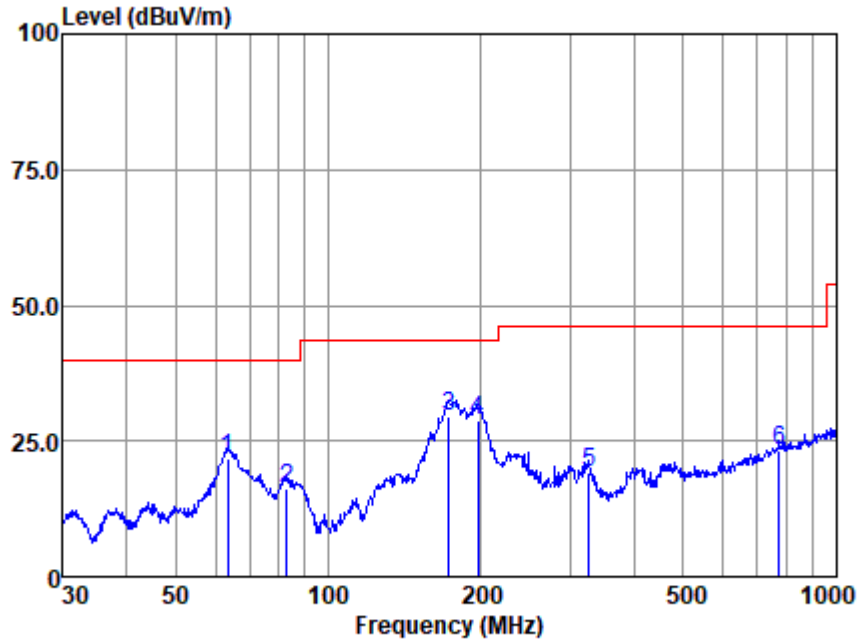
3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

4) 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



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Below 1GHz  
Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL  
EUT/Project :7442CR  
Test mode :a

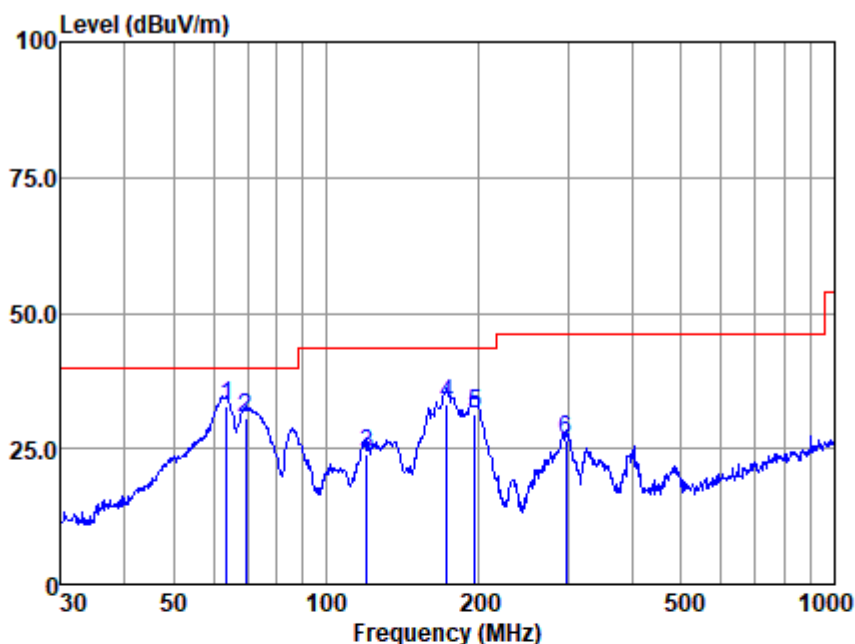
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	63.313	50.48	12.62	1.15	42.30	21.95	40.00	-18.05	QP
2	82.938	48.60	8.75	1.33	42.30	16.38	40.00	-23.62	QP
3	172.599	57.02	12.55	2.02	42.20	29.39	43.50	-14.11	QP
4	197.200	58.66	10.06	2.22	42.20	28.74	43.50	-14.76	QP
5	325.596	44.35	14.01	2.90	42.00	19.26	46.00	-26.74	QP
6	771.449	38.48	22.19	4.43	42.00	23.10	46.00	-22.90	QP

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



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Mode:a; Polarization:Vertical



Antenna Polarity :VERTICAL  
EUT/Project :7442CR  
Test mode :a

	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	63.536	61.31	12.59	1.15	42.30	32.75	40.00	-7.25 QP
2	69.357	60.08	11.80	1.21	42.30	30.79	40.00	-9.21 QP
3	120.277	53.48	11.03	1.65	42.25	23.91	43.50	-19.59 QP
4	172.599	60.74	12.55	2.02	42.20	33.11	43.50	-10.39 QP
5	195.822	61.39	10.14	2.20	42.20	31.53	43.50	-11.97 QP
6	296.184	52.54	13.20	2.81	42.10	26.45	46.00	-19.55 QP

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

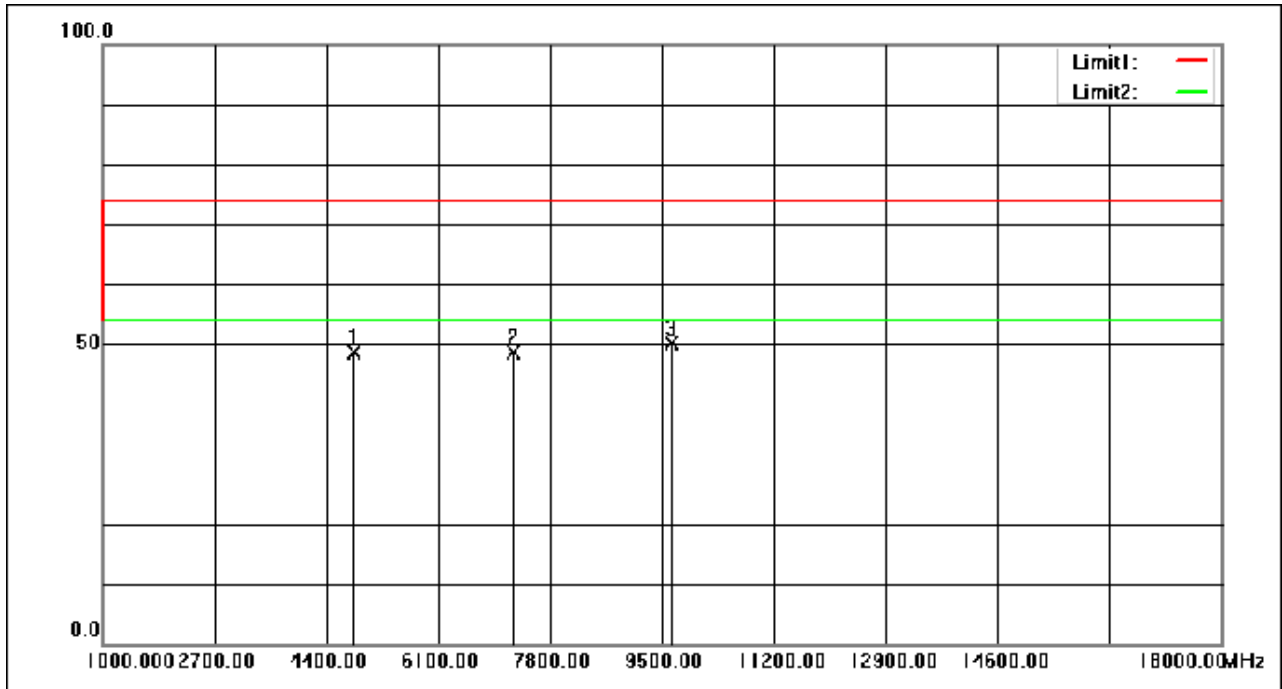


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Above 1GHz

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4824.000	58.77	-10.21	48.56	74.00	-25.44	peak
2	7236.000	55.62	-7.05	48.57	74.00	-25.43	peak
3	9648.000	54.87	-4.77	50.10	74.00	-23.90	peak



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



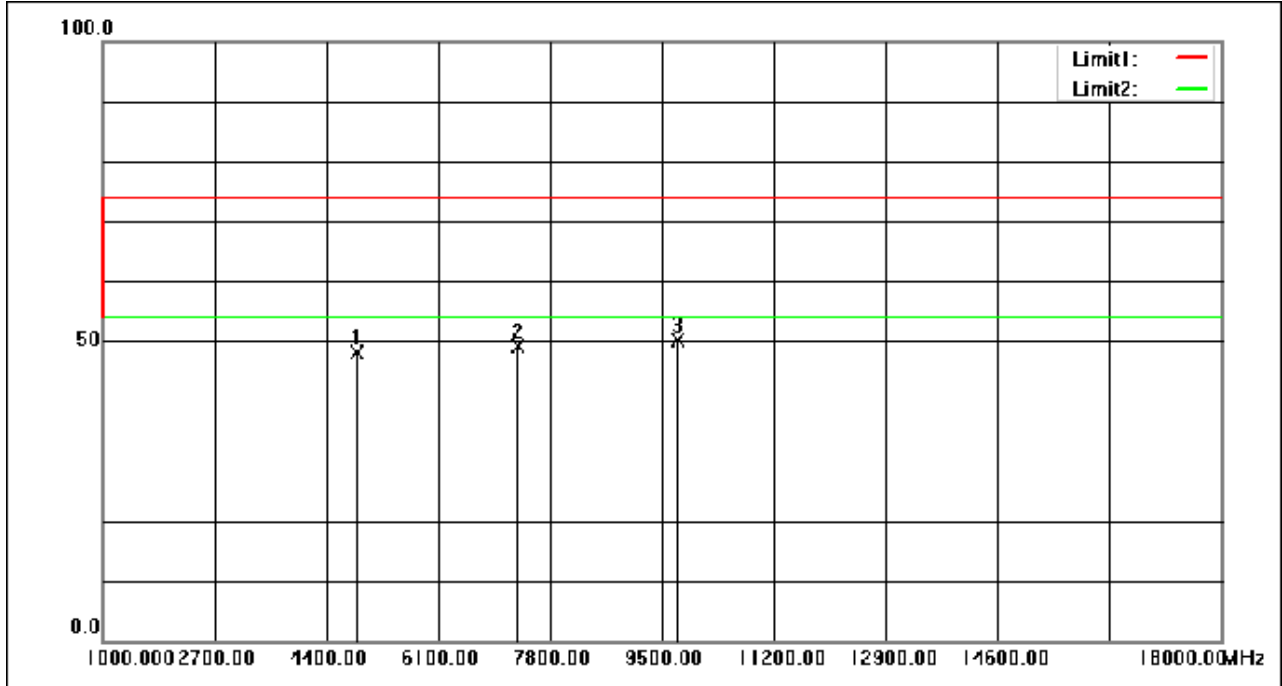
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4824.000	58.93	-10.21	48.72	74.00	-25.28	peak
2	7236.000	55.62	-7.05	48.57	74.00	-25.43	peak
3	9648.000	54.35	-4.77	49.58	74.00	-24.42	peak



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

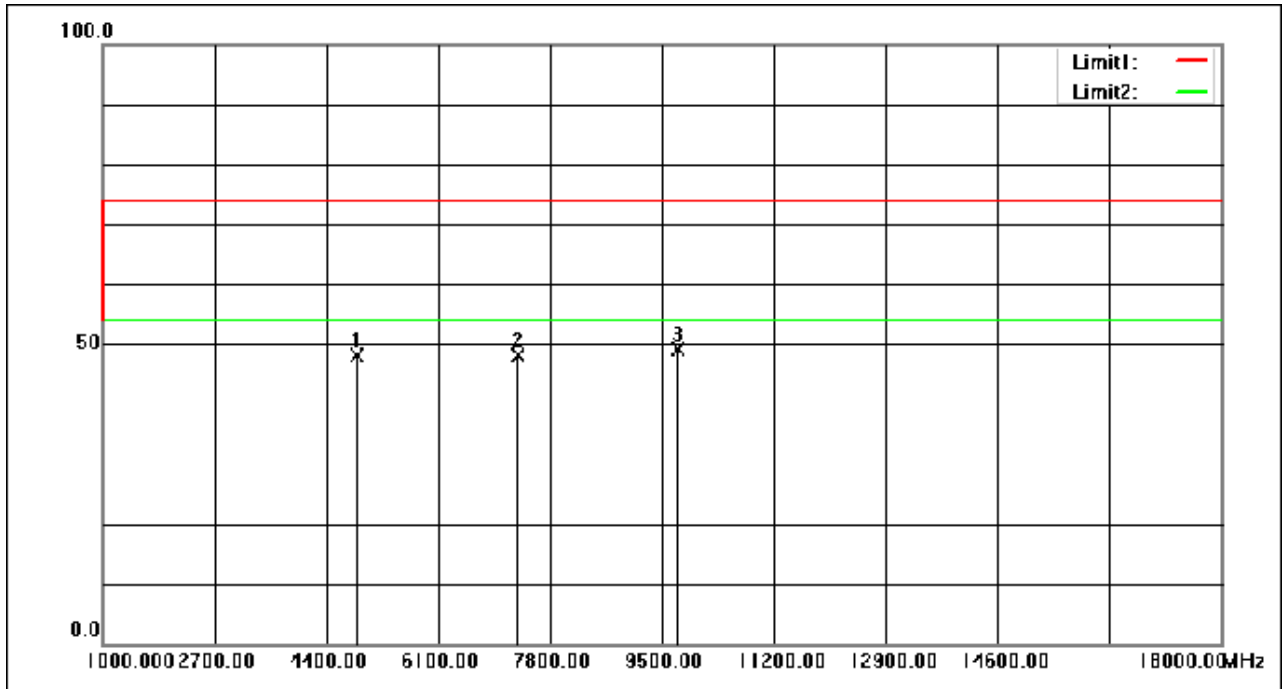


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4874.000	58.23	-10.01	48.22	74.00	-25.78	peak
2	7311.000	56.14	-6.93	49.21	74.00	-24.79	peak
3	9748.000	54.43	-4.30	50.13	74.00	-23.87	peak



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

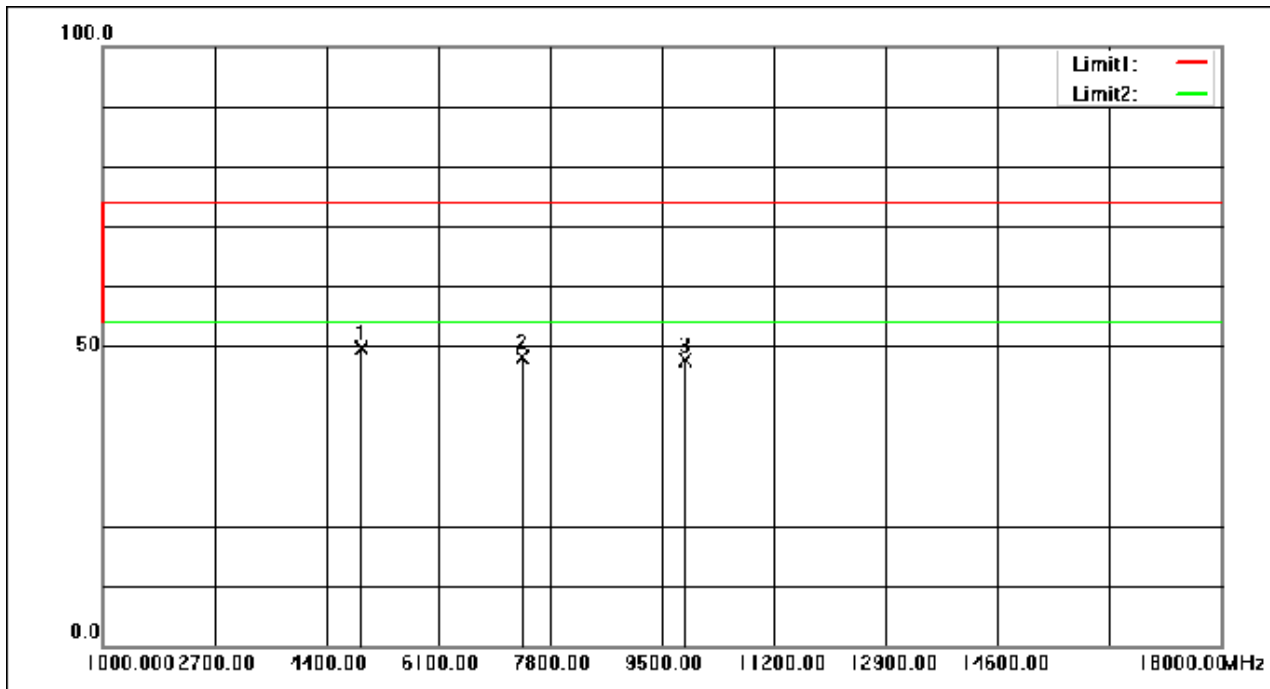


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4874.000	58.14	-10.01	48.13	74.00	-25.87	peak
2	7311.000	55.09	-6.93	48.16	74.00	-25.84	peak
3	9748.000	53.55	-4.30	49.25	74.00	-24.75	peak



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

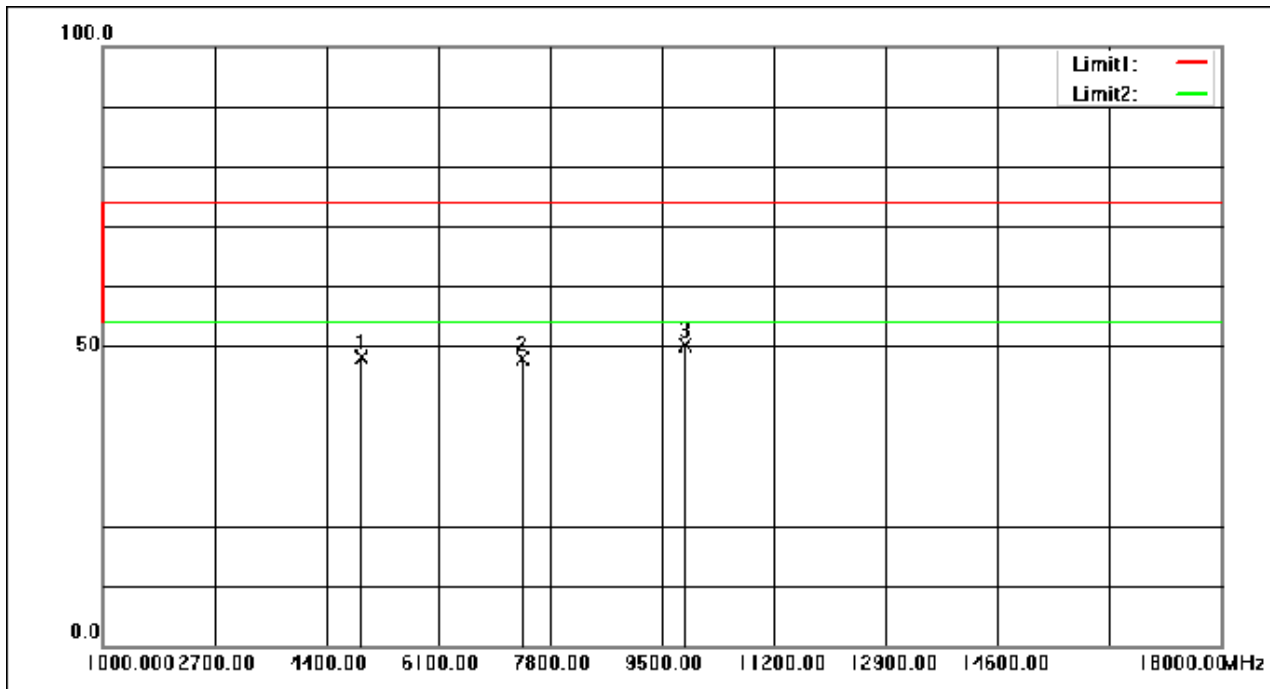


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4924.000	59.34	-9.82	49.52	74.00	-24.48	peak
2	7386.000	54.93	-6.80	48.13	74.00	-25.87	peak
3	9848.000	51.50	-3.84	47.66	74.00	-26.34	peak



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



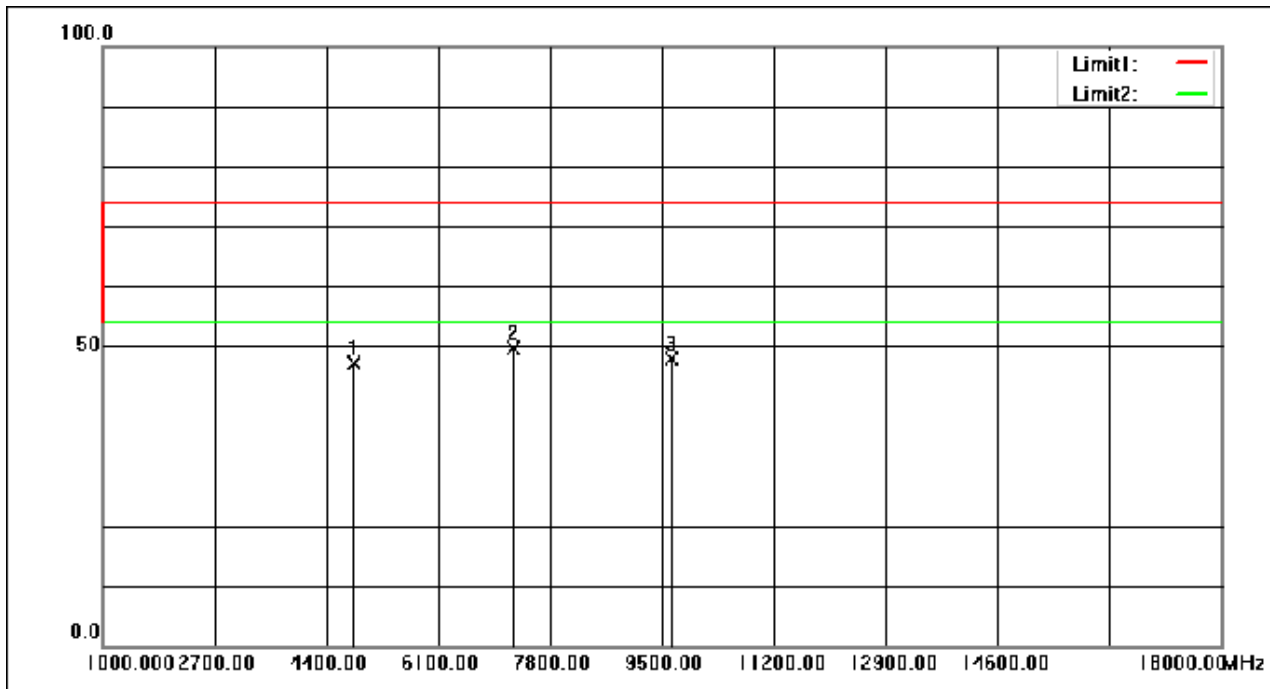
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4924.000	57.94	-9.82	48.12	74.00	-25.88	peak
2	7386.000	54.75	-6.80	47.95	74.00	-26.05	peak
3	9848.000	53.96	-3.84	50.12	74.00	-23.88	peak



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

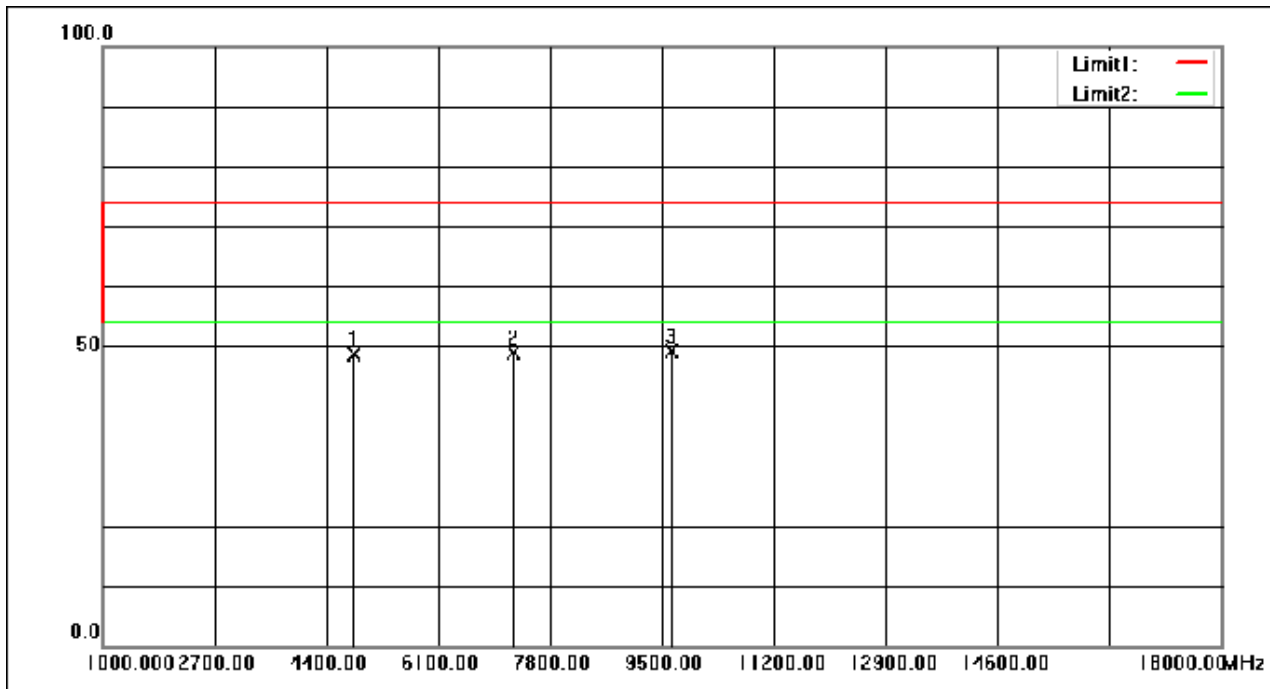


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4824.000	57.36	-10.21	47.15	74.00	-26.85	peak
2	7236.000	56.77	-7.05	49.72	74.00	-24.28	peak
3	9648.000	52.65	-4.77	47.88	74.00	-26.12	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4824.000	58.76	-10.21	48.55	74.00	-25.45	peak
2	7236.000	55.86	-7.05	48.81	74.00	-25.19	peak
3	9648.000	53.99	-4.77	49.22	74.00	-24.78	peak

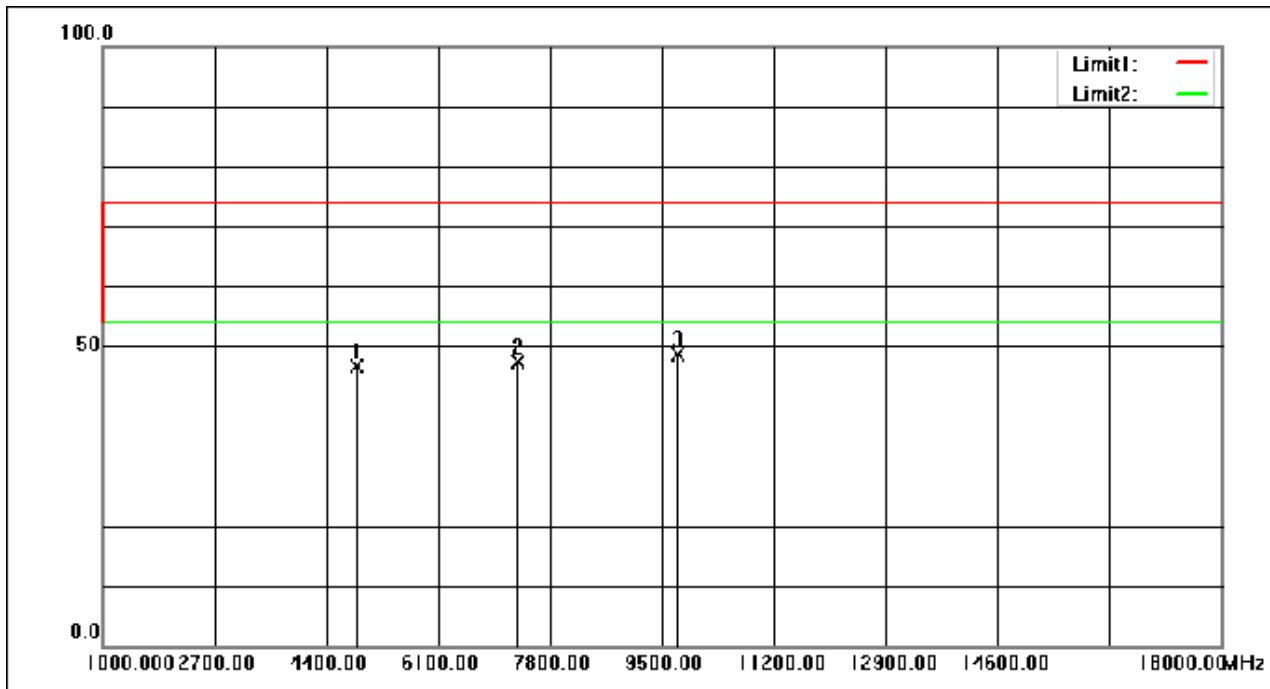


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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle

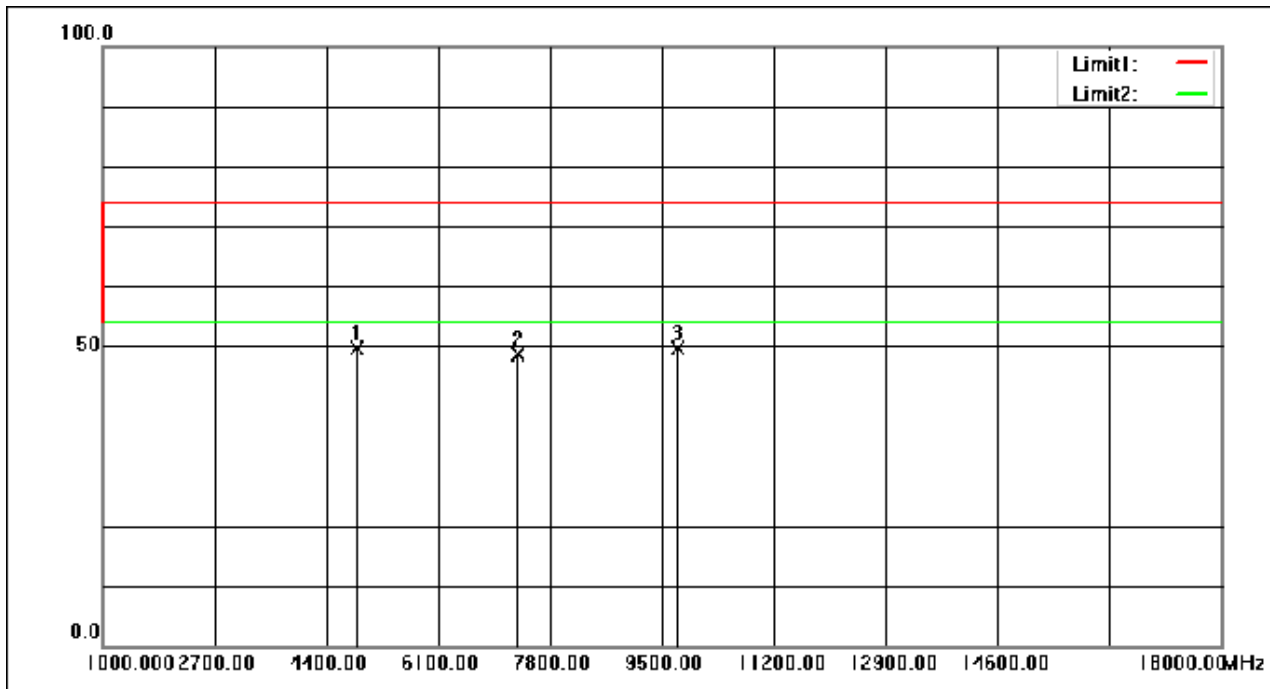


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4874.000	56.56	-10.01	46.55	74.00	-27.45	peak
2	7311.000	54.22	-6.93	47.29	74.00	-26.71	peak
3	9748.000	52.89	-4.30	48.59	74.00	-25.41	peak



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



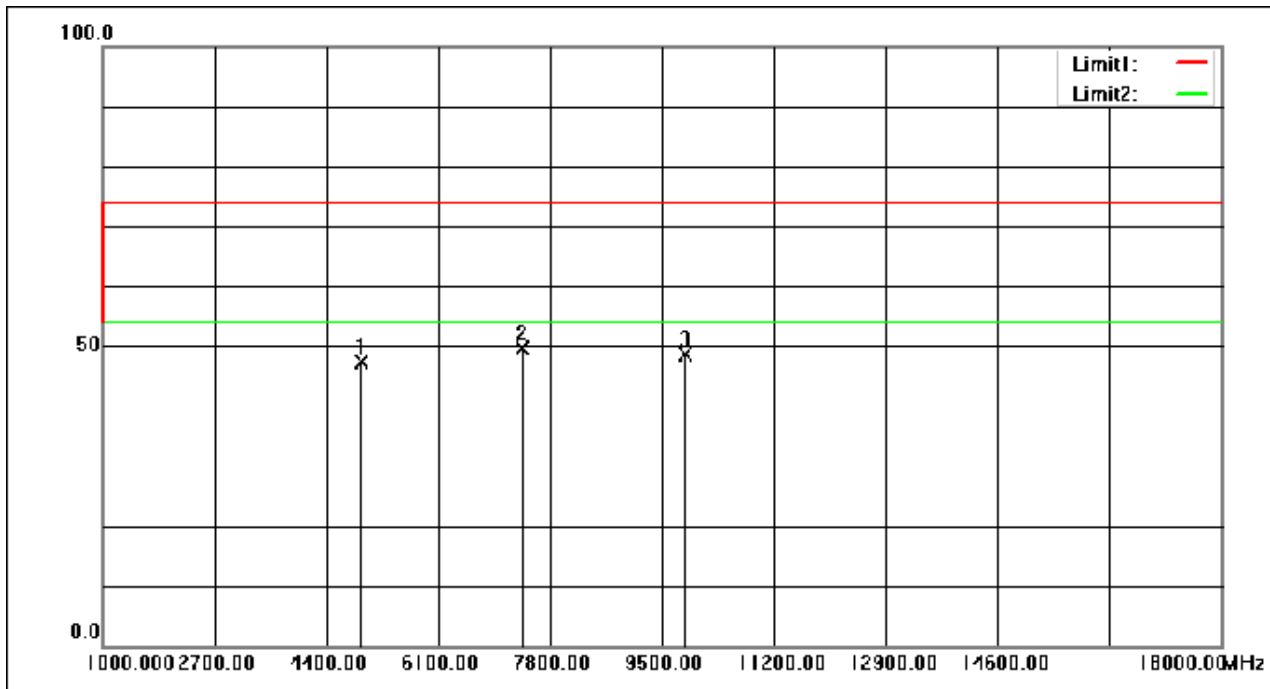
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4874.000	59.53	-10.01	49.52	74.00	-24.48	peak
2	7311.000	55.50	-6.93	48.57	74.00	-25.43	peak
3	9748.000	53.82	-4.30	49.52	74.00	-24.48	peak



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



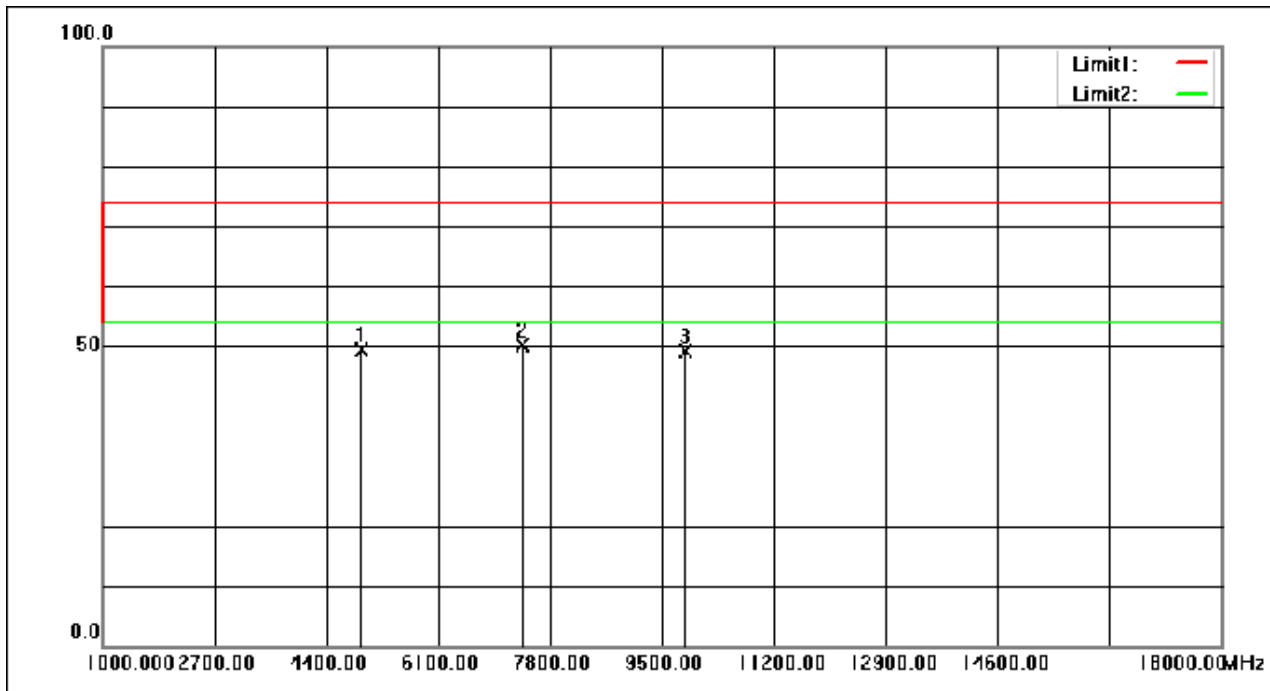
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4924.000	57.26	-9.82	47.44	74.00	-26.56	peak
2	7386.000	56.45	-6.80	49.65	74.00	-24.35	peak
3	9848.000	52.41	-3.84	48.57	74.00	-25.43	peak



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



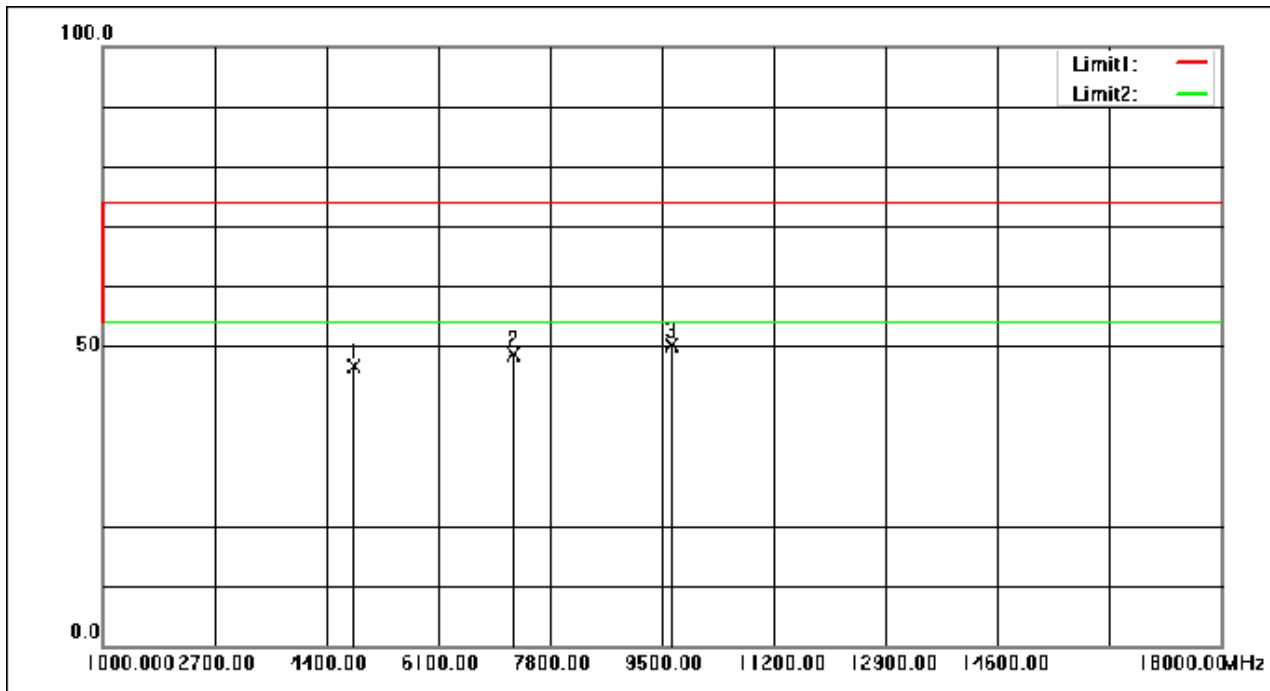
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4924.000	59.32	-9.82	49.50	74.00	-24.50	peak
2	7386.000	56.93	-6.80	50.13	74.00	-23.87	peak
3	9848.000	53.05	-3.84	49.21	74.00	-24.79	peak



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



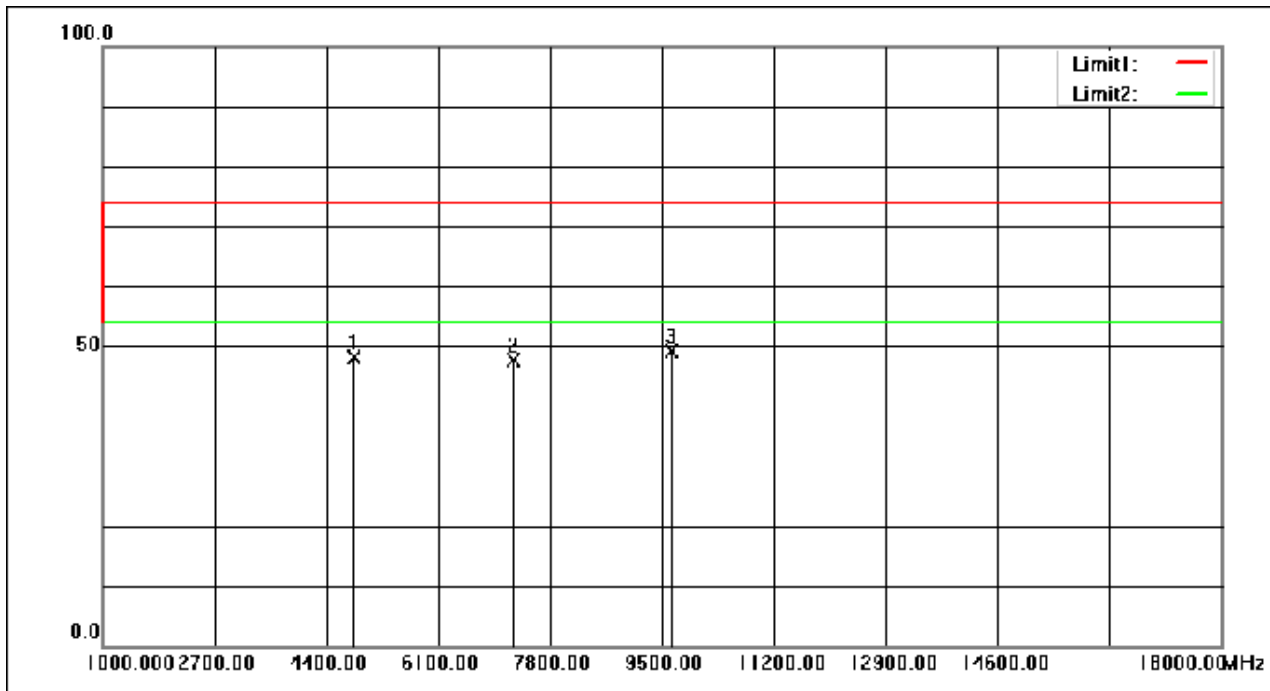
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4824.000	56.93	-10.21	46.72	74.00	-27.28	peak
2	7236.000	55.60	-7.05	48.55	74.00	-25.45	peak
3	9648.000	54.90	-4.77	50.13	74.00	-23.87	peak



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

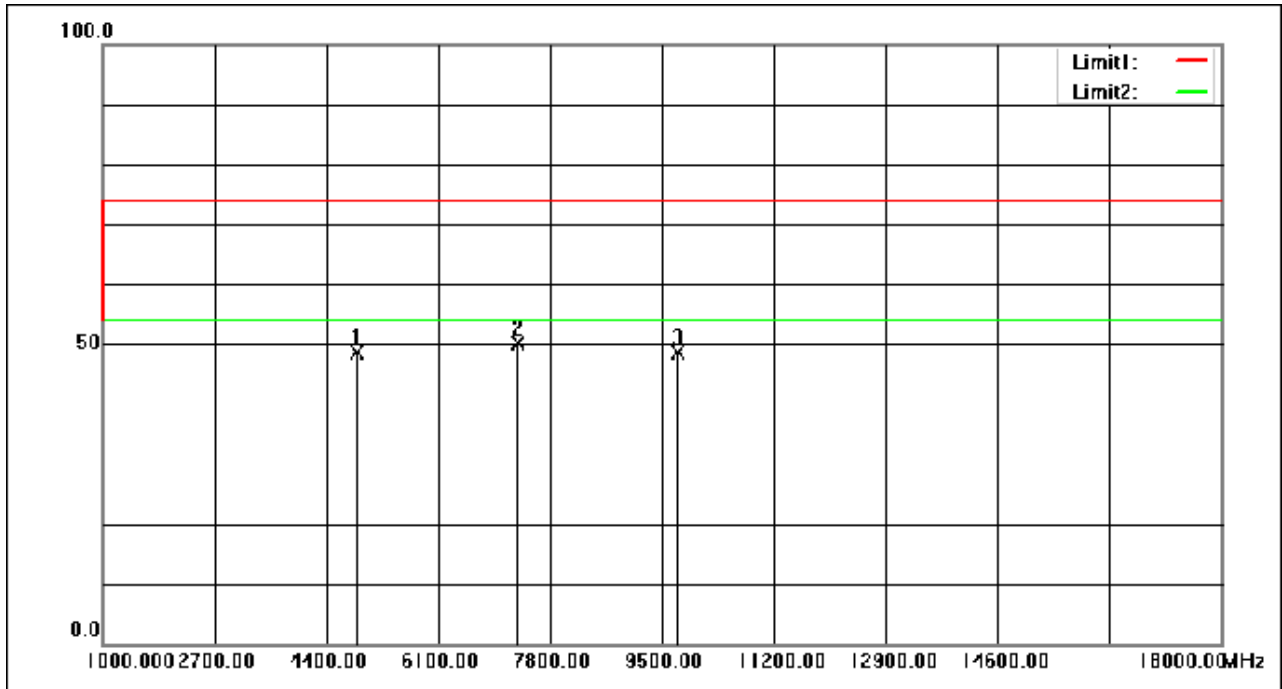


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4824.000	58.43	-10.21	48.22	74.00	-25.78	peak
2	7236.000	54.57	-7.05	47.52	74.00	-26.48	peak
3	9648.000	54.02	-4.77	49.25	74.00	-24.75	peak



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

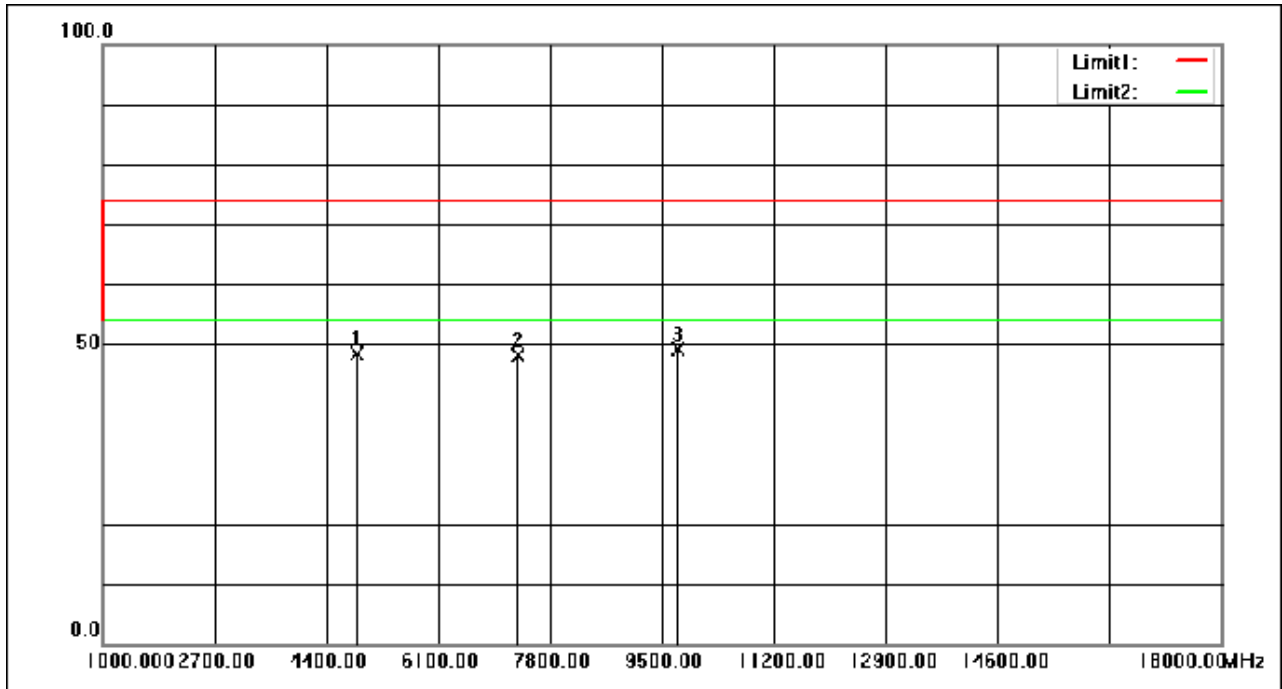


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4874.000	58.58	-10.01	48.57	74.00	-25.43	peak
2	7311.000	57.11	-6.93	50.18	74.00	-23.82	peak
3	9748.000	52.82	-4.30	48.52	74.00	-25.48	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4874.000	58.30	-10.01	48.29	74.00	-25.71	peak
2	7311.000	55.14	-6.93	48.21	74.00	-25.79	peak
3	9748.000	53.32	-4.30	49.02	74.00	-24.98	peak

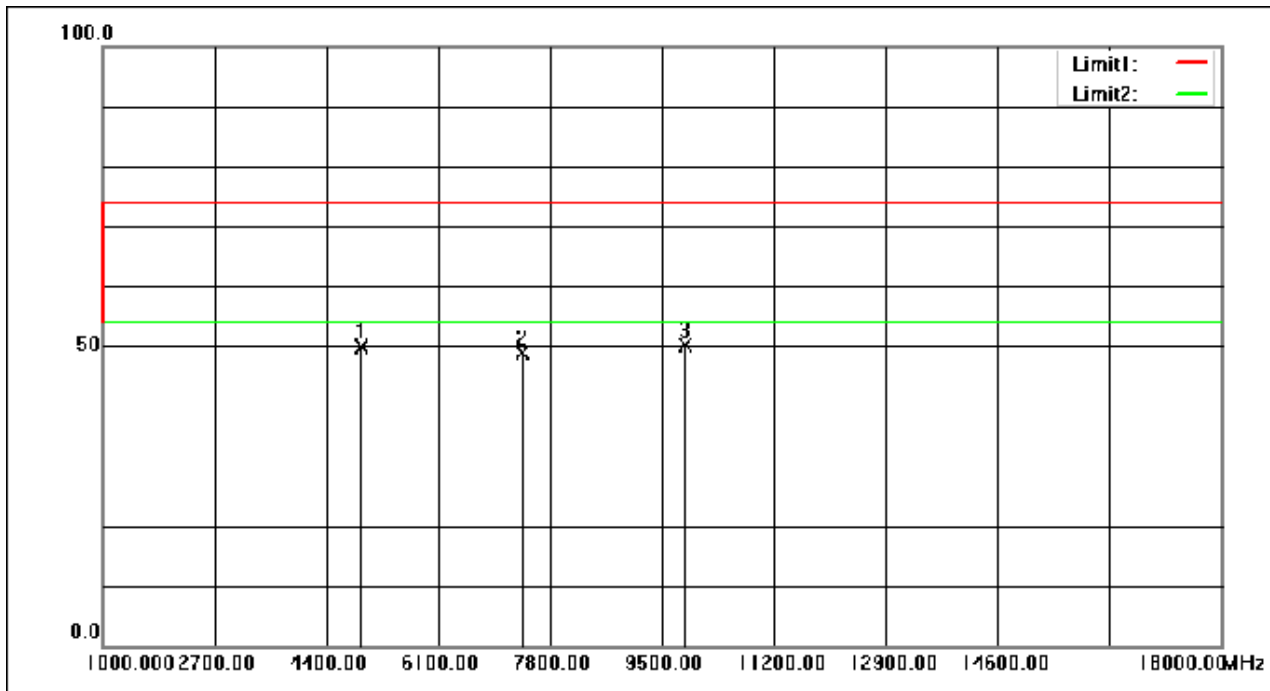


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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

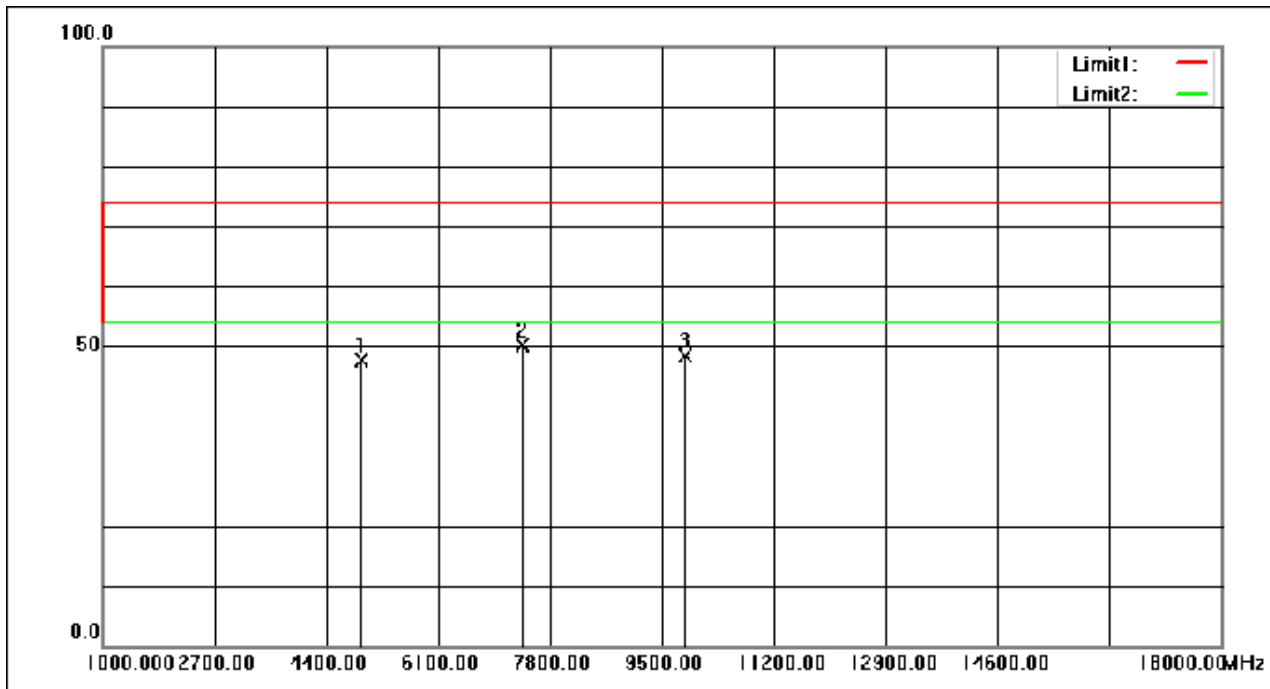


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4924.000	59.76	-9.82	49.94	74.00	-24.06	peak
2	7386.000	55.57	-6.80	48.77	74.00	-25.23	peak
3	9848.000	53.97	-3.84	50.13	74.00	-23.87	peak



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



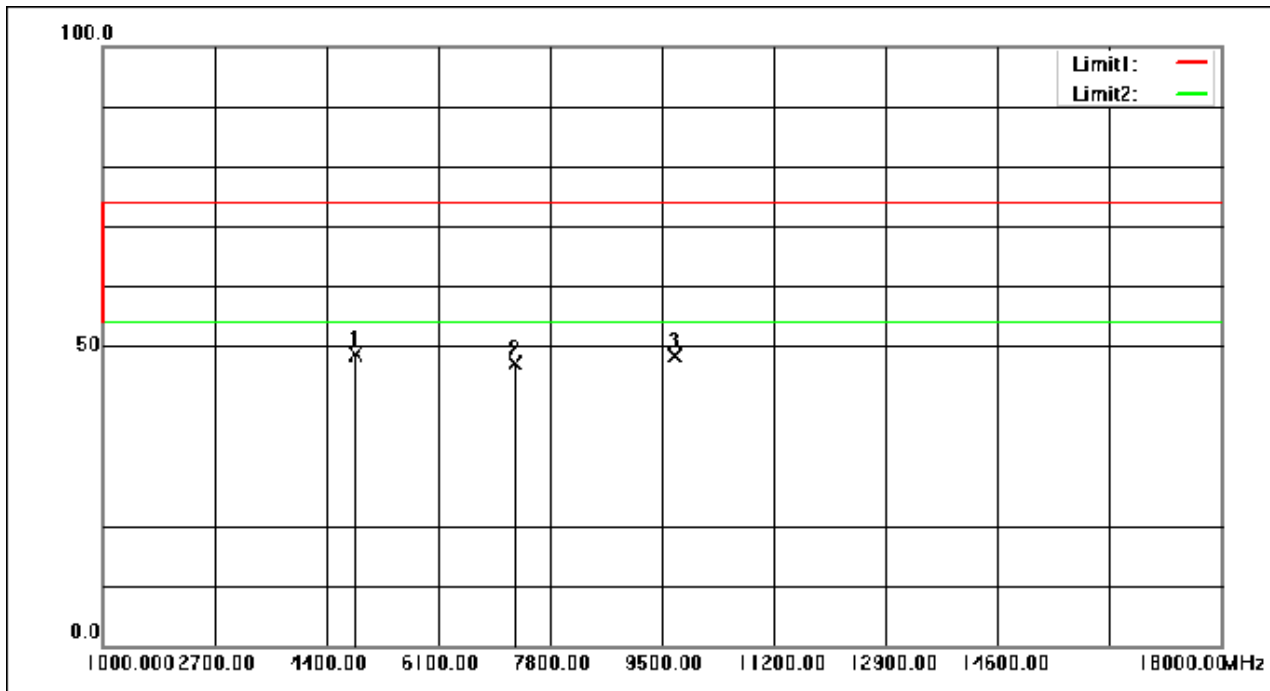
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4924.000	57.40	-9.82	47.58	74.00	-26.42	peak
2	7386.000	56.93	-6.80	50.13	74.00	-23.87	peak
3	9848.000	52.34	-3.84	48.50	74.00	-25.50	peak



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

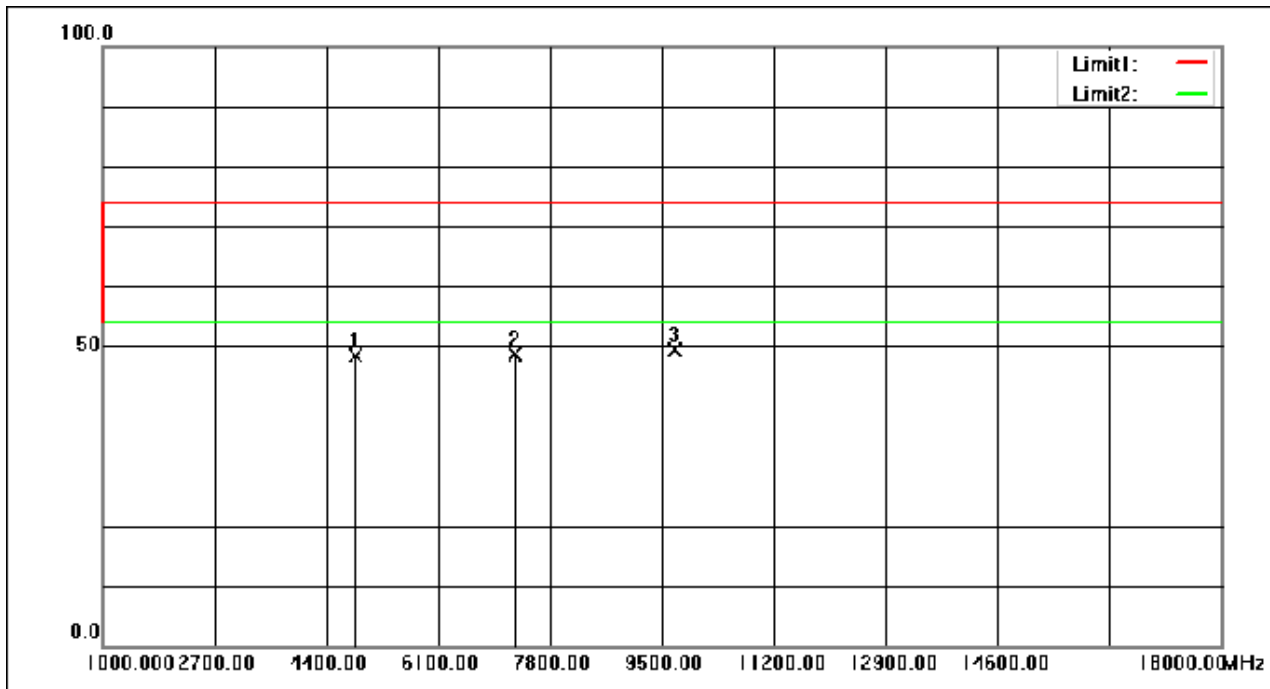


No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4844.000	58.66	-10.13	48.53	74.00	-25.47	peak
2	7266.000	54.15	-7.00	47.15	74.00	-26.85	peak
3	9688.000	53.04	-4.58	48.46	74.00	-25.54	peak



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



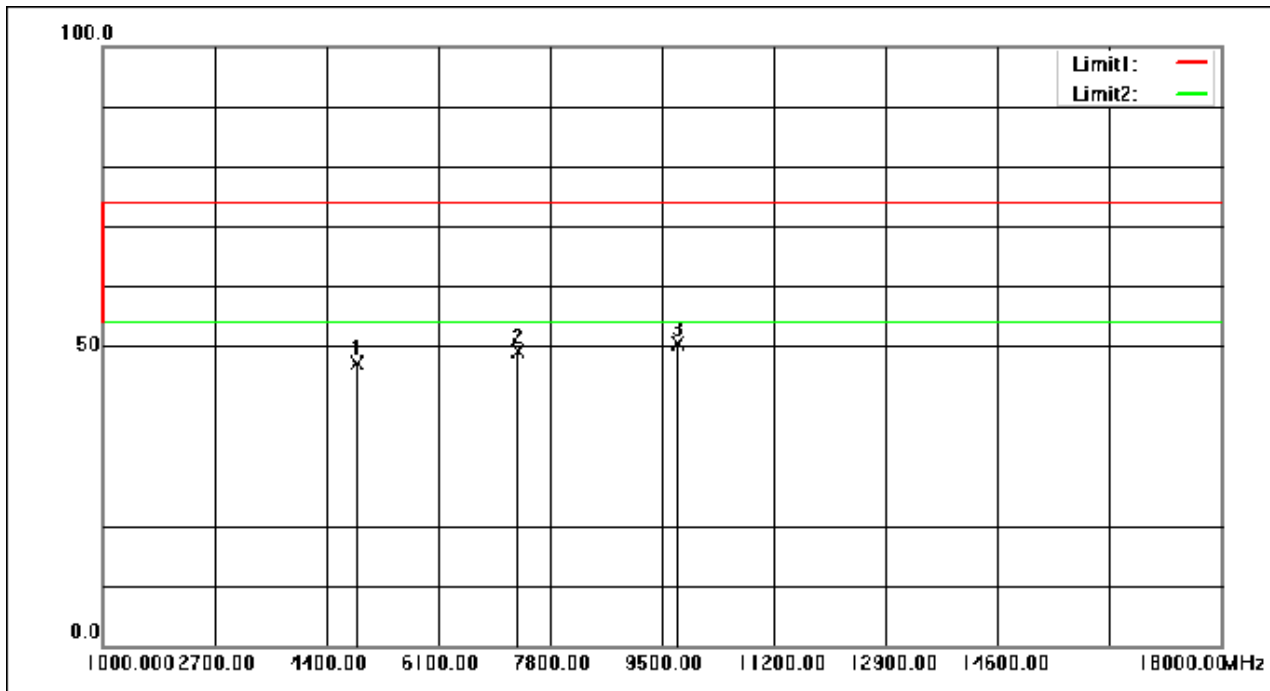
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4844.000	58.40	-10.13	48.27	74.00	-25.73	peak
2	7266.000	55.57	-7.00	48.57	74.00	-25.43	peak
3	9688.000	54.07	-4.58	49.49	74.00	-24.51	peak



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



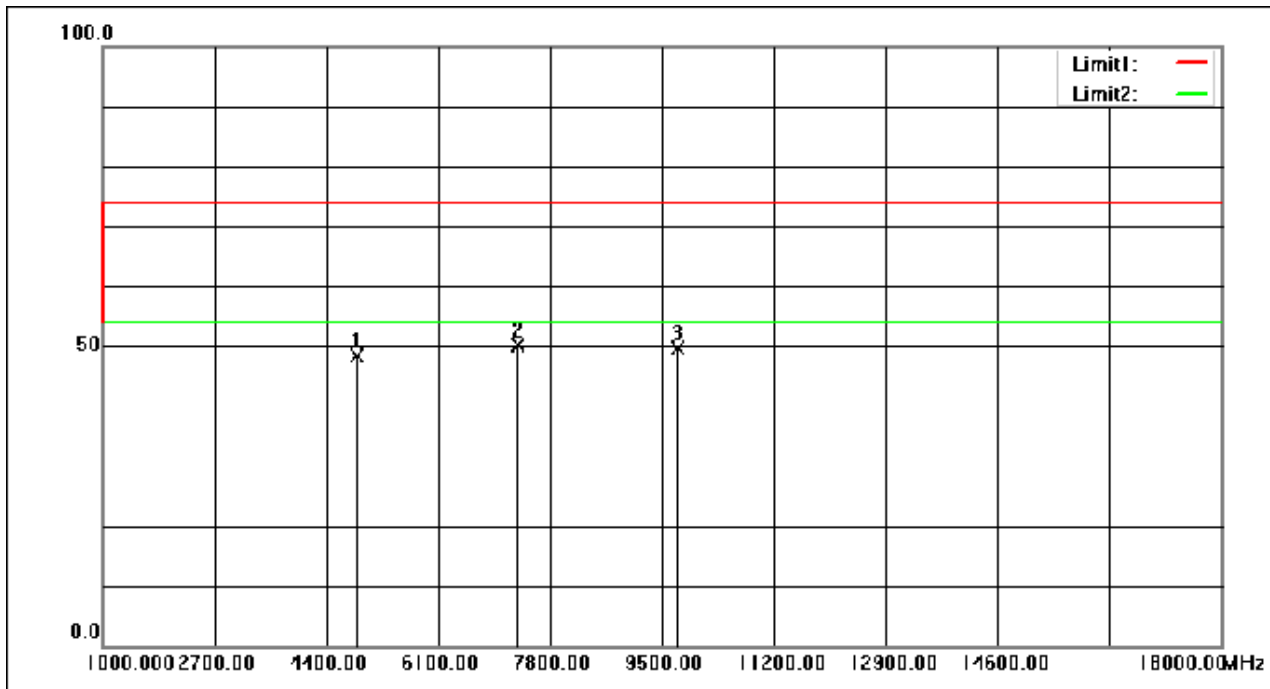
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4874.000	57.05	-10.01	47.04	74.00	-26.96	peak
2	7311.000	56.12	-6.93	49.19	74.00	-24.81	peak
3	9748.000	54.79	-4.30	50.49	74.00	-23.51	peak



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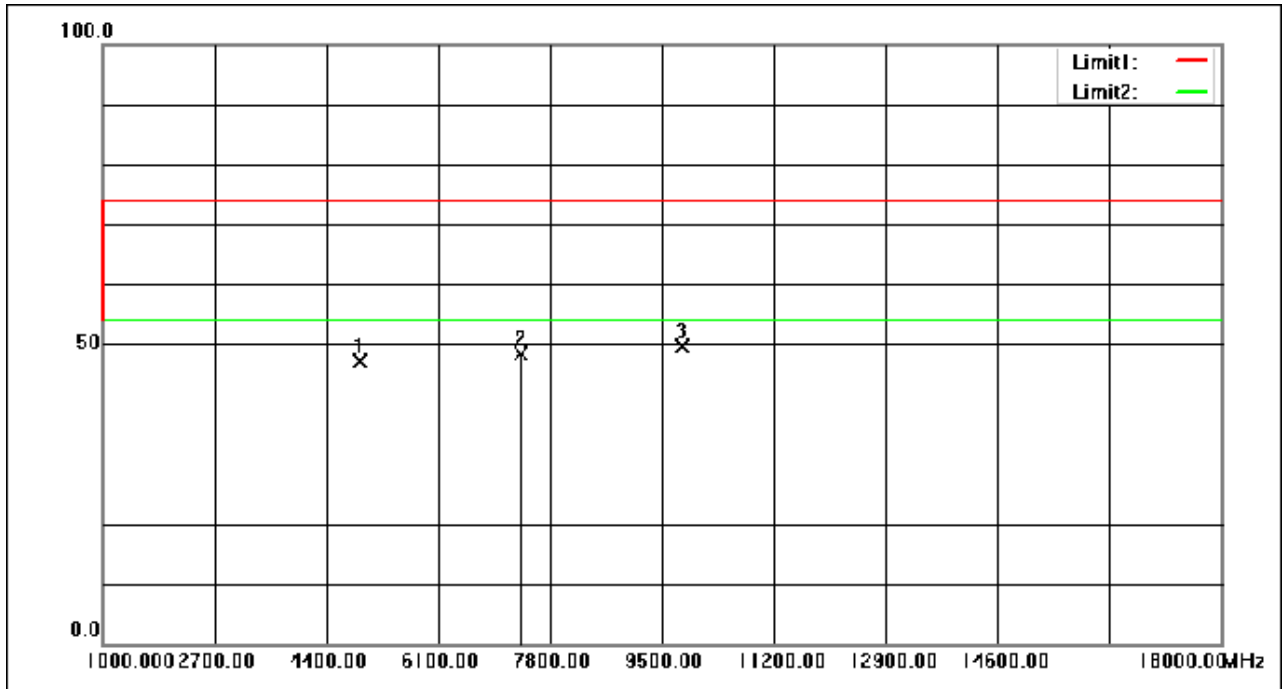
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4874.000	58.28	-10.01	48.27	74.00	-25.73	peak
2	7311.000	57.11	-6.93	50.18	74.00	-23.82	peak
3	9748.000	53.87	-4.30	49.57	74.00	-24.43	peak



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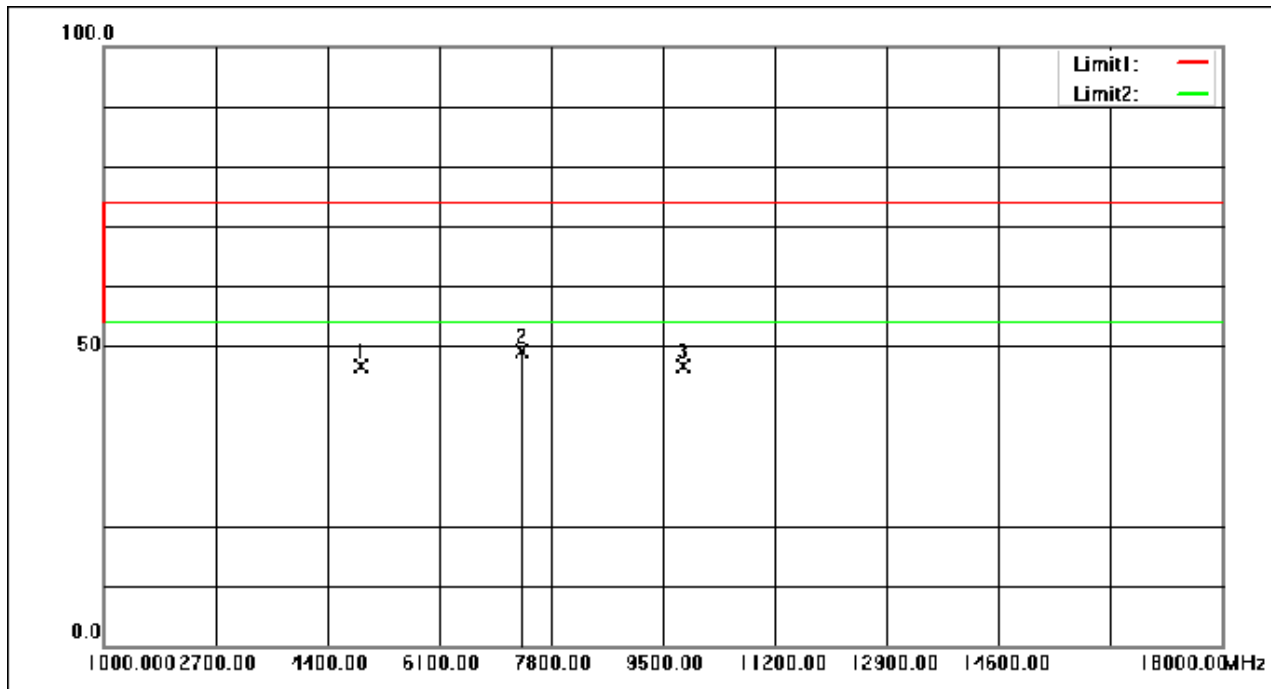
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4904.000	57.07	-9.89	47.18	74.00	-26.82	peak
2	7356.000	55.27	-6.85	48.42	74.00	-25.58	peak
3	9808.000	53.64	-4.02	49.62	74.00	-24.38	peak



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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4904.000	56.58	-9.89	46.69	74.00	-27.31	peak
2	7356.000	55.88	-6.85	49.03	74.00	-24.97	peak
3	9808.000	50.77	-4.02	46.75	74.00	-27.25	peak



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## 8 Test Setup Photographs

Refer to the < Test Setup photos-FCC >.

## 9 EUT Constructional Details

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

- End of the Report -



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