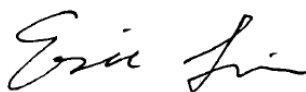


Test Report

Application No.: KSCR2206000984AT
FCC ID: 2ADTD-7608L1W
IC: 20199-7608L1W
Applicant: Hangzhou Hikvision Digital Technology Co., Ltd
Address of Applicant: 555 Qianmo Road, Binjiang District, Hangzhou, Hangzhou, Zhejiang, China
Manufacturer: Hangzhou Hikvision Digital Technology Co., Ltd
Address of Manufacturer: 555 Qianmo Road, Binjiang District, Hangzhou, Hangzhou, Zhejiang, China
Factory:
 1. Hangzhou Hikvision Technology Co., Ltd.
 2. Hangzhou Hikvision Electronics Co., Ltd.
 3. Hangzhou Hikvision Digital Technology Co., Ltd.
 4. Chongqing Hikvision technology Co.,LTD
Address of Factory:
 1. No.700,Dongliu Road, Binjiang District, Hangzhou Ctiy, Zhejiang, 310052, China;
 2. No.299,Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou,Zhejiang,310052,China
 3.No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China
 4.NO.118.Haikang Road,Area C,Jianqiao Industrial Park,Dadukou District,Chongqing,401325,China.
Equipment Under Test (EUT):
EUT Name: Network Video Recorder
Model No.: DS-7604NI-L1/W,DS-7604NI-L1/WUHK,DS-7604NI-L1/WCKV,DS-7604NI-L1/WUVS,DS-7604NI-L1/WKVO,DS-7604NI-L1/WHUN,DS-7608NI-L1/W,DS-7608NI-L1/WUHK,DS-7608NI-L1/WCKV,DS-7608NI-L1/WUVS,DS-7608NI-L1/WKVO,DS-7608NI-L1/WHUN♣
For IC Model No.: DS-7604NI-L1/W, DS-7608NI-L1/W
HVIN: 7604L1W2, 7608L1W2
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) : 47 CFR Part 15, Subpart C 15.247
 RSS-247 Issue 2, February 2017
 RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt: 2022-06-14
Date of Test: 2022-06-15 to 2022-07-12
Date of Issue: 2022-07-14

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.



Eric Lin
Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-07-14		Add one display screen & add HVIN for IC Based on KSCR220100014201

Authorized for issue by:			
		<i>Tommie Tang</i>	
		Tommie Tang/Project Engineer	
		<i>Eric Lin</i>	
		Eric Lin/Reviewer	



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2 Test Summary

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass
Radiated Spurious Emissions Below 1GHz	47 CFR Part 15, Subpart C 15.247	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5	Pass
Radiated Spurious Emissions Above 1GHz		RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.6	Pass

Note1: Declaration of EUT Family Grouping:

There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model DS-7604NI-L1/W for FCC and HVIN 7604L1W2 for IC were tested since their differences were the model number and appearance.

Note2: This report was an additional report copied from the report KSCR220100014201, new report add one display screen, add HVIN 7604L1W2, 7608L1W2 for IC and only test Banedge&RSE.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 12V by adapter
Serial Number:	J12873668
Firmware Version:	V4.32.110build 211228
Cable(s):	Ethernet cable *1 Wired mouse *1
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
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
Channel Spacing:	5MHz
Antenna Type:	Antenna 1:Dipole Antenna Antenna 2:Dipole Antenna
Antenna Gain:	Antenna 1:4.96dBi (Provided by manufacturer) Antenna 2:4.96dBi (Provided by manufacturer) Directional gain:7.97dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	/
SecureCRT	VanDyke	V 6.2.0	/
Serial port adapter plate	/	/	/



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4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 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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4.4 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.

Note: 1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

4.5 Test Facility

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

- **CNAS**

Compliance Certification Services (Kunshan) Inc. is accredited by the China National Accreditation Service for Conformity Assessment (CNAS). Registration No. CNAS L4354

- **A2LA**

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

- **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED**

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**

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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	10/11/2021	10/10/2022
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	10/18/2021	10/17/2022
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	10/26/2020	10/25/2022
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/22/2022	03/21/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/14/2021	11/13/2022
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023
14	Software	Faratronic	EZ_EMCC-v 3A1	/	N/A	N/A



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6 Radio Spectrum Matter Test Results

6.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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.

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C Humidity: 54.1 % RH Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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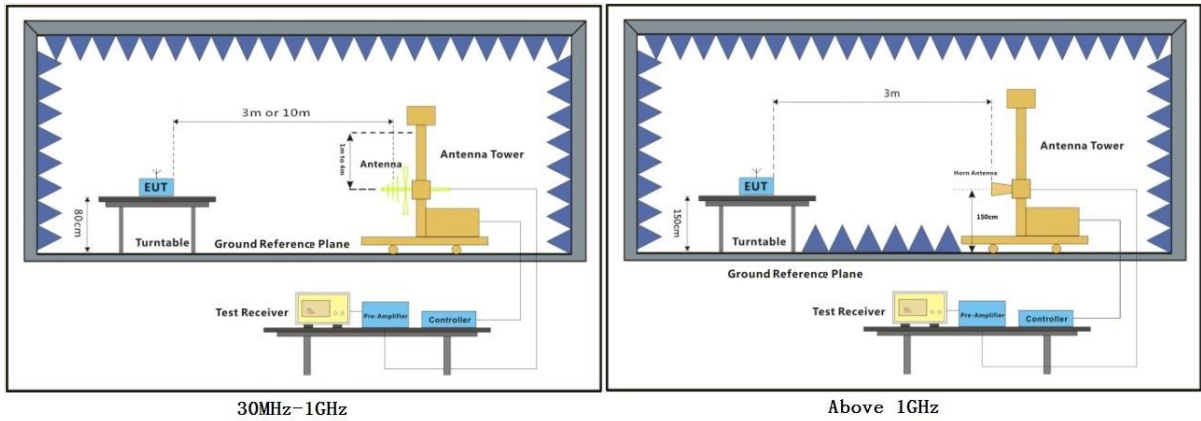
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6.1.3 Test Setup Diagram



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6.1.4 Measurement Procedure and Data

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

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

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

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

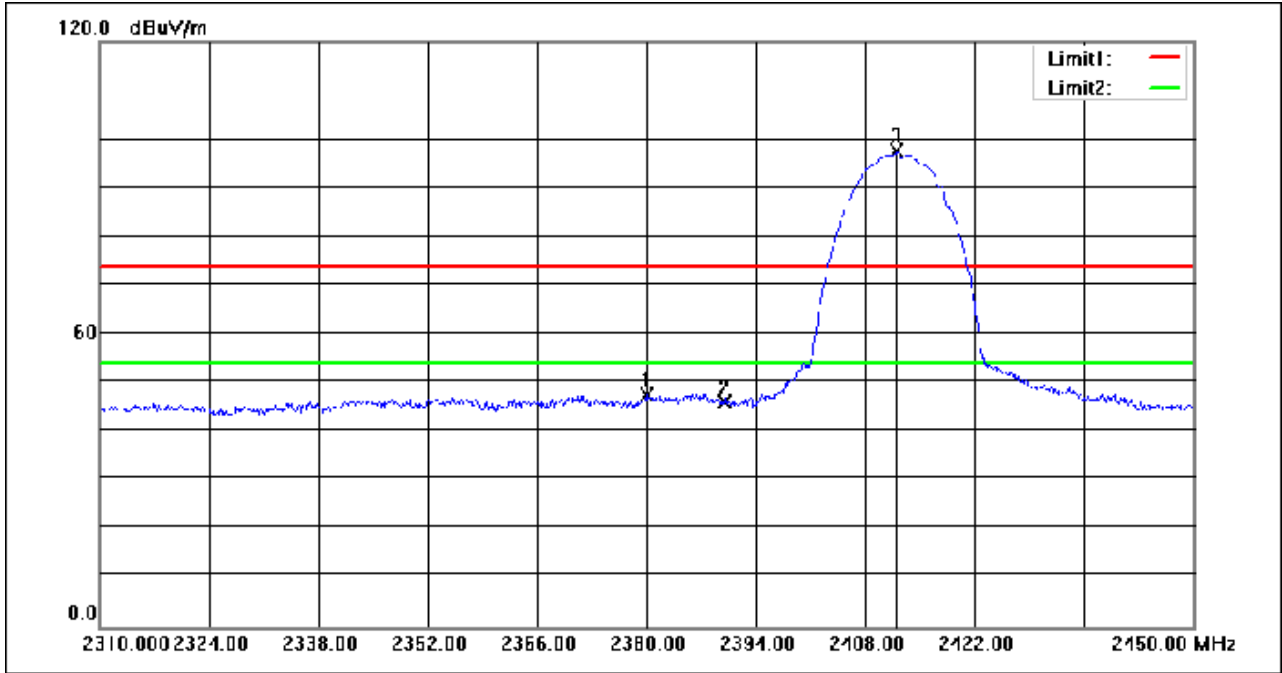


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



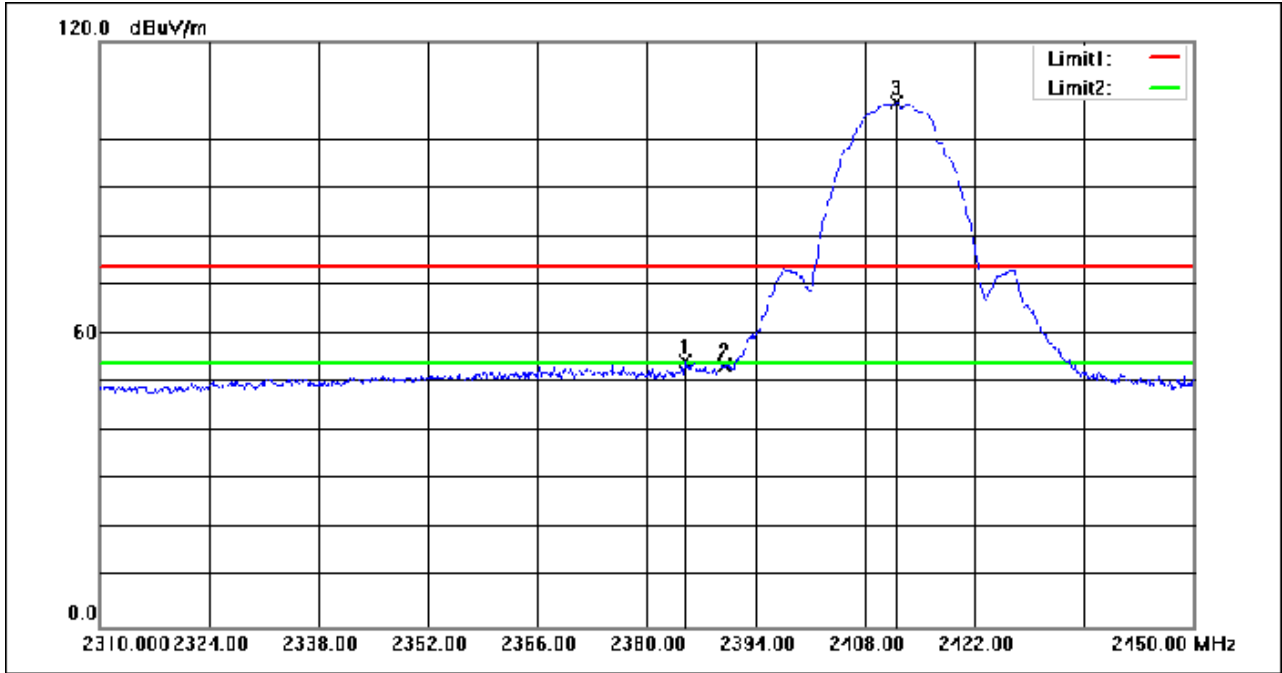
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2380.000	61.52	-14.03	47.49	74.00	-26.51	peak
2	2390.000	60.04	-14.01	46.03	74.00	-27.97	peak
3	2412.060	111.50	-13.94	97.56	74.00	23.56	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



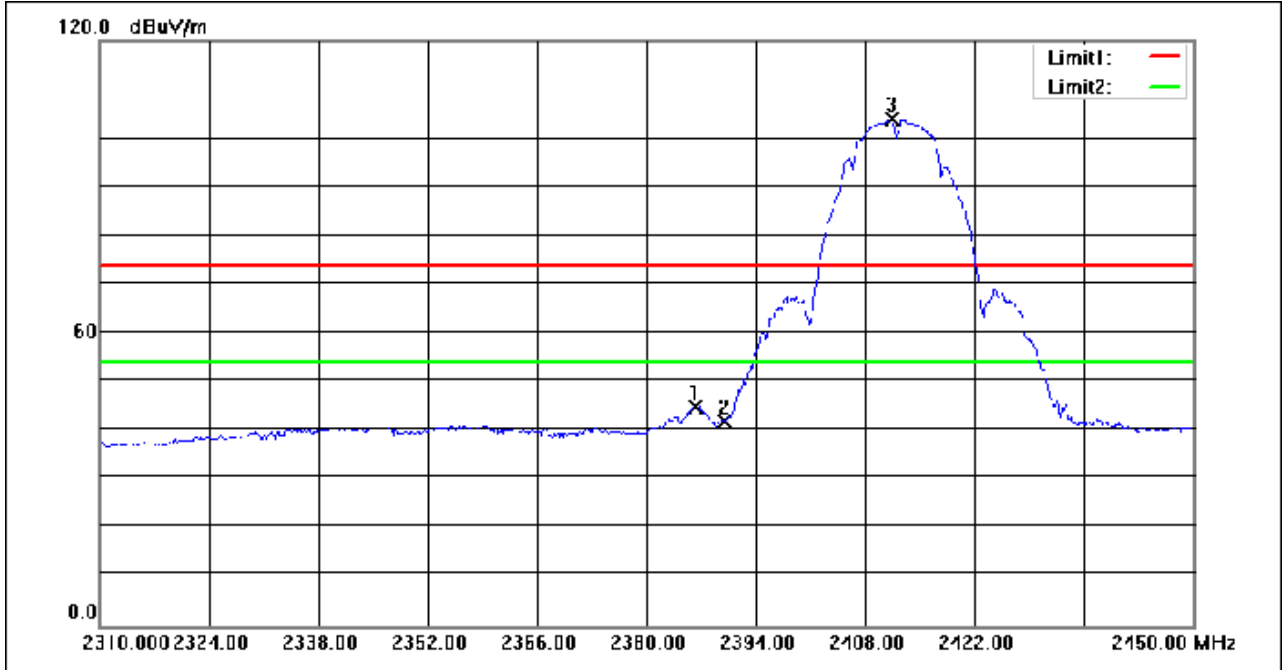
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.900	68.53	-14.03	54.50	74.00	-19.50	peak
2	2390.000	67.58	-14.01	53.57	74.00	-20.43	peak
3	2412.060	121.36	-13.94	107.42	74.00	33.42	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.300	58.90	-14.02	44.88	54.00	-9.12	AVG
2	2390.000	55.84	-14.01	41.83	54.00	-12.17	AVG
3	2411.360	117.99	-13.94	104.05	54.00	50.05	AVG

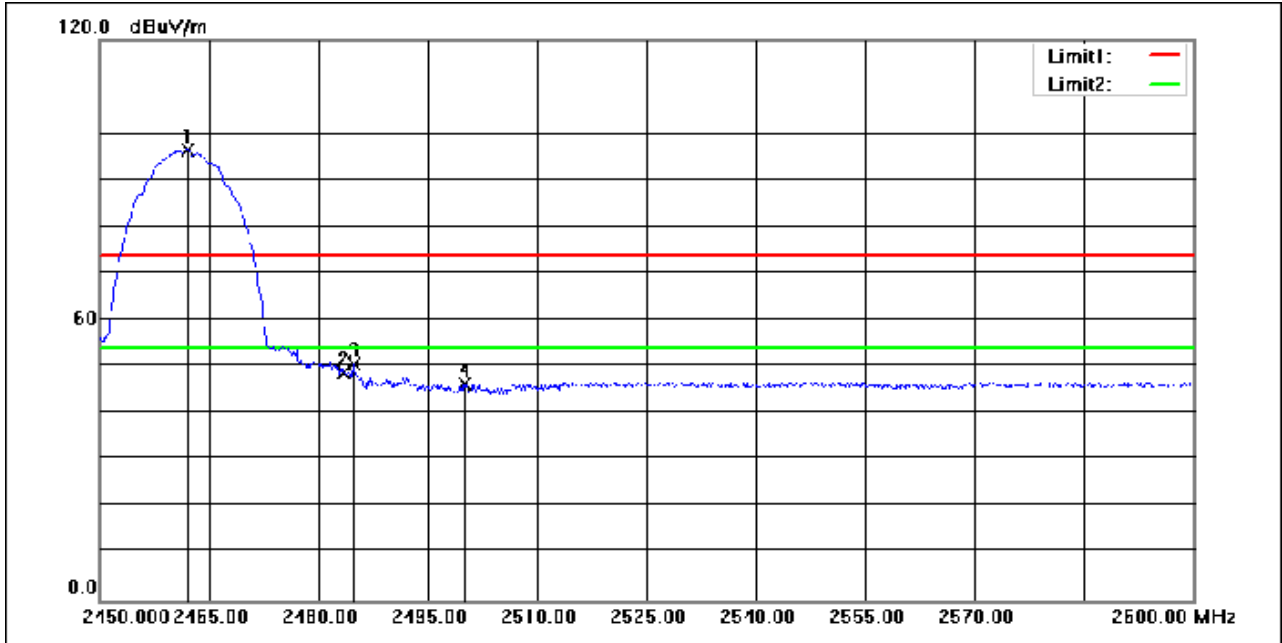


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



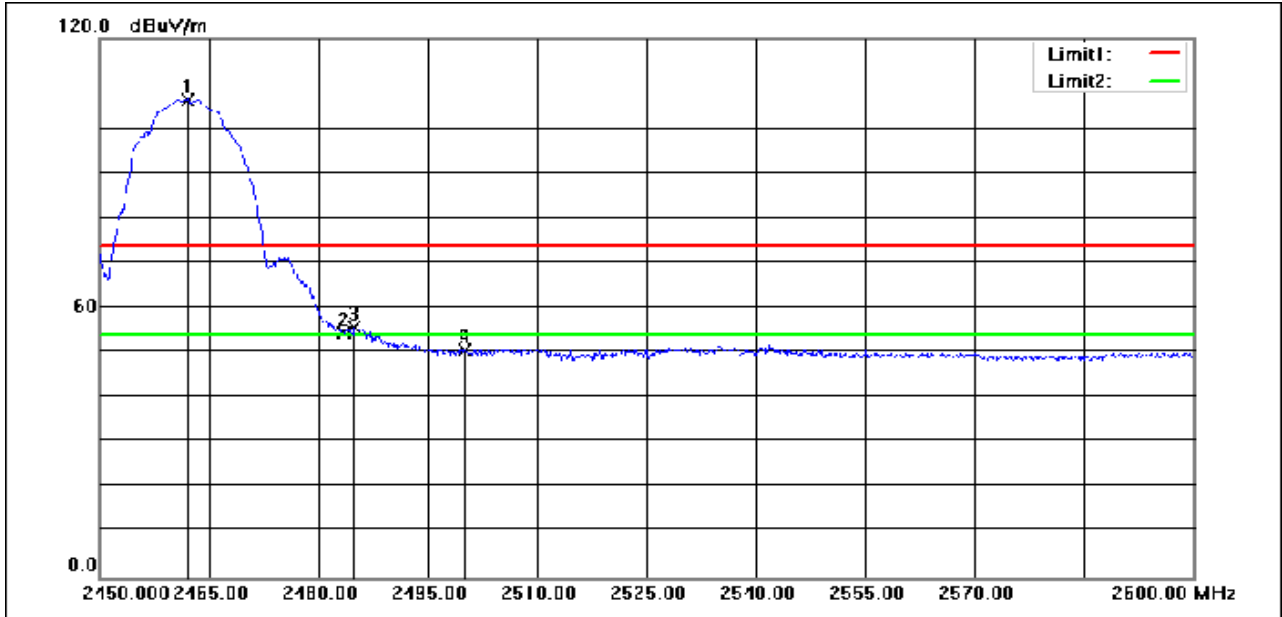
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.000	110.34	-13.78	96.56	74.00	22.56	peak
2	2483.500	62.36	-13.71	48.65	74.00	-25.35	peak
3	2484.800	64.37	-13.70	50.67	74.00	-23.33	peak
4	2500.000	59.94	-13.64	46.30	74.00	-27.70	peak



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.000	120.24	-13.78	106.46	74.00	32.46	peak
2	2483.500	68.14	-13.71	54.43	74.00	-19.57	peak
3	2484.950	69.27	-13.70	55.57	74.00	-18.43	peak
4	2500.000	64.17	-13.64	50.53	74.00	-23.47	peak
5	2500.000	64.22	-13.64	50.58	74.00	-23.42	peak

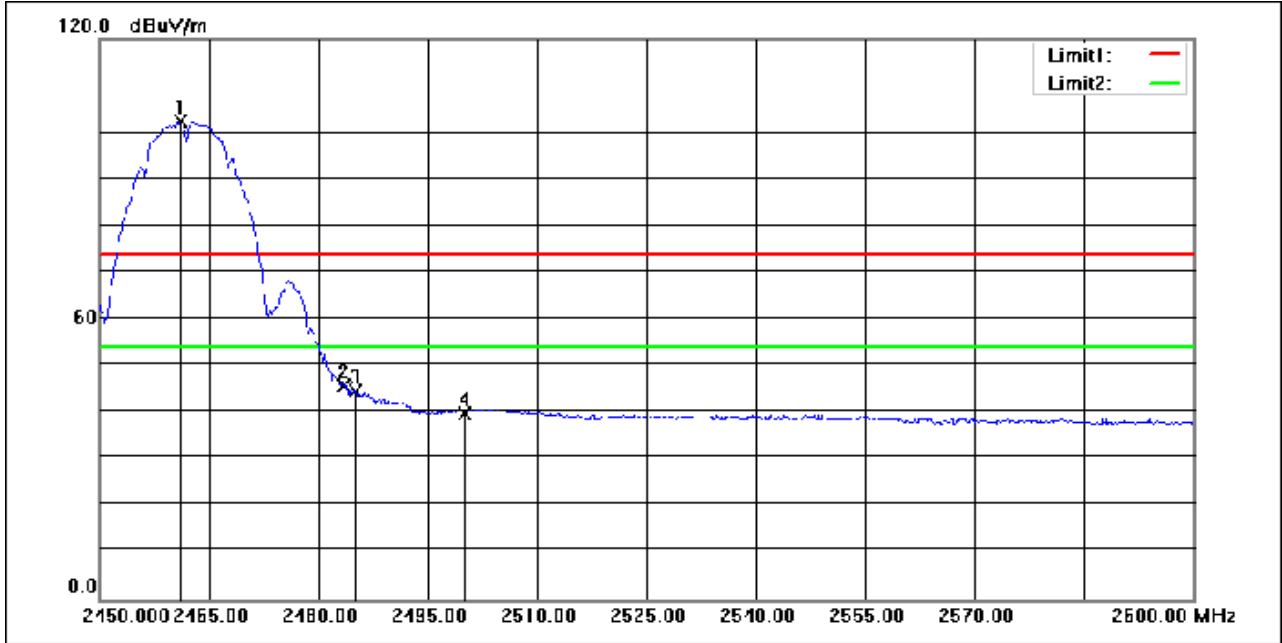


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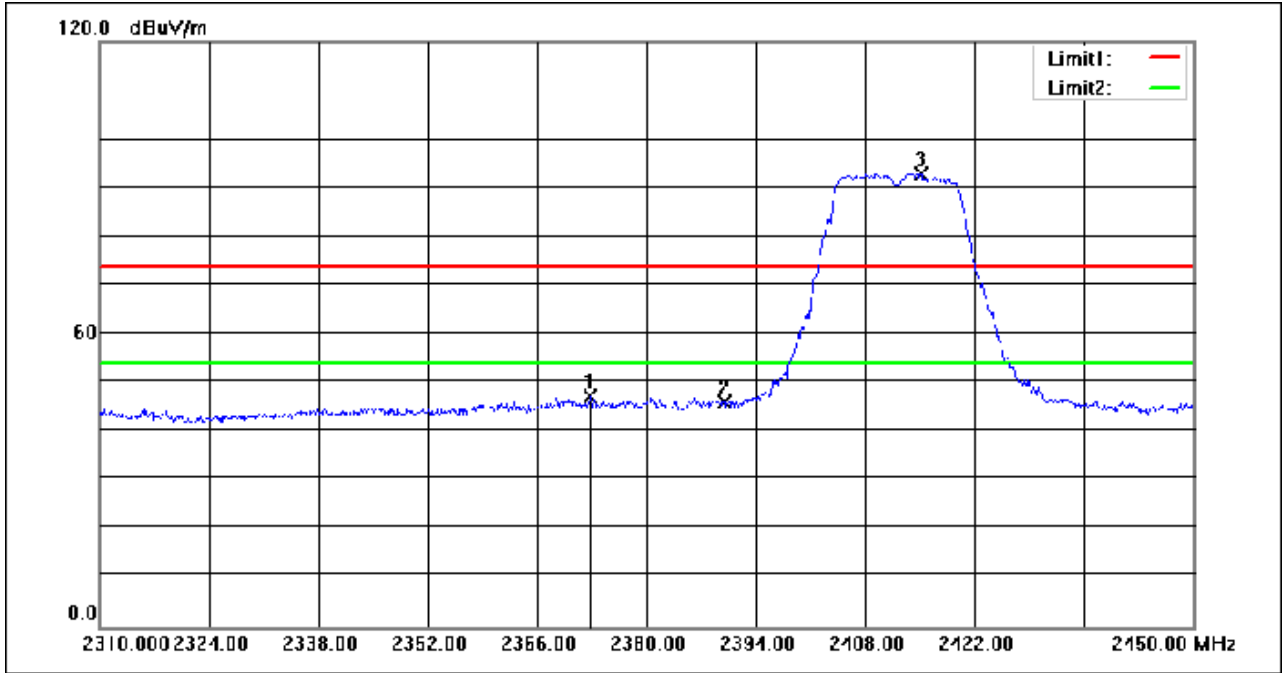
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1	2461.100	116.18	-13.78	102.40	54.00	48.40	AVG
2	2483.500	59.48	-13.71	45.77	54.00	-8.23	AVG
3	2485.100	58.31	-13.70	44.61	54.00	-9.39	AVG
4	2500.000	53.50	-13.64	39.86	54.00	-14.14	AVG



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2372.720	61.36	-14.06	47.30	74.00	-26.70	peak
2	2390.000	60.11	-14.01	46.10	74.00	-27.90	peak
3	2415.140	106.78	-13.93	92.85	74.00	18.85	peak

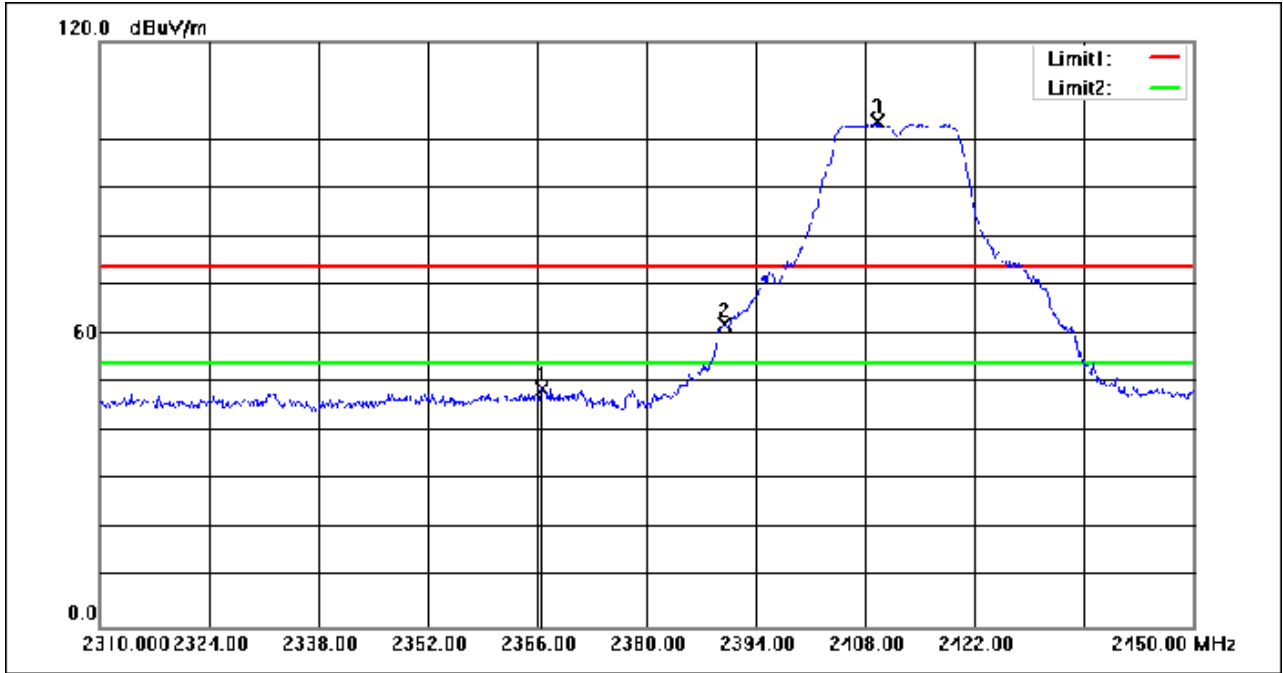


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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2366.560	62.72	-14.08	48.64	74.00	-25.36	peak
2	2390.000	75.97	-14.01	61.96	74.00	-12.04	peak
3	2409.540	117.61	-13.95	103.66	74.00	29.66	peak

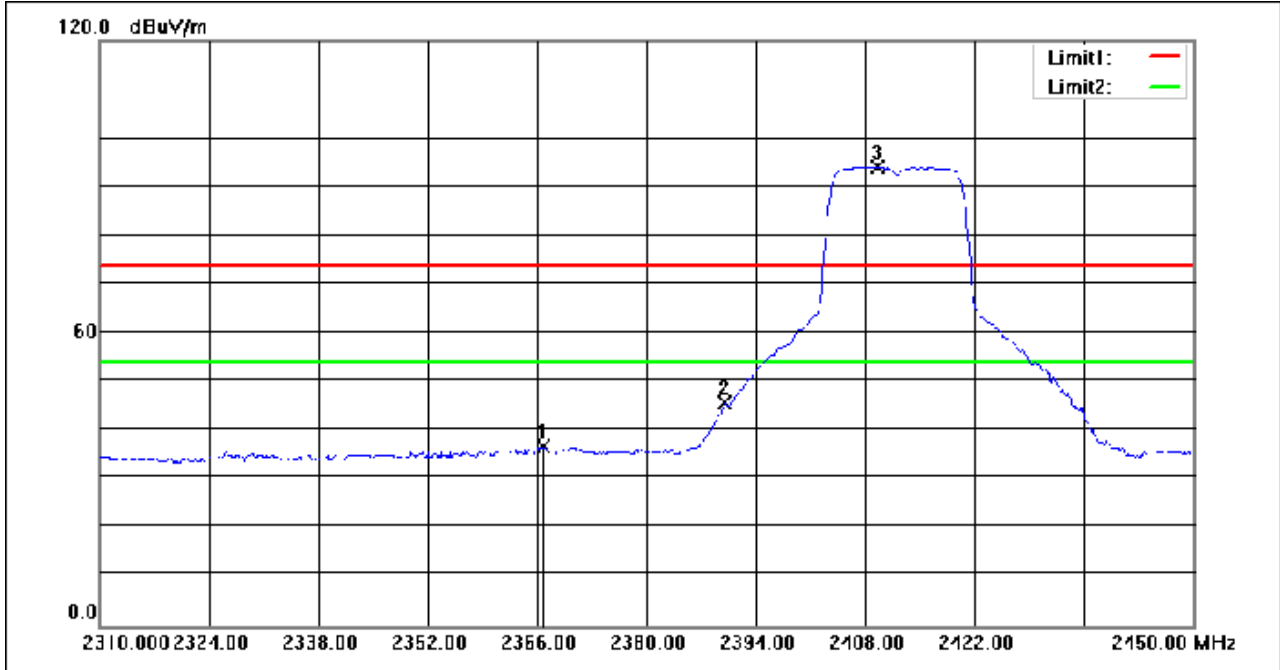


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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2366.840	50.74	-14.08	36.66	54.00	-17.34	AVG
2	2390.000	59.64	-14.01	45.63	54.00	-8.37	AVG
3	2409.540	108.01	-13.95	94.06	54.00	40.06	AVG

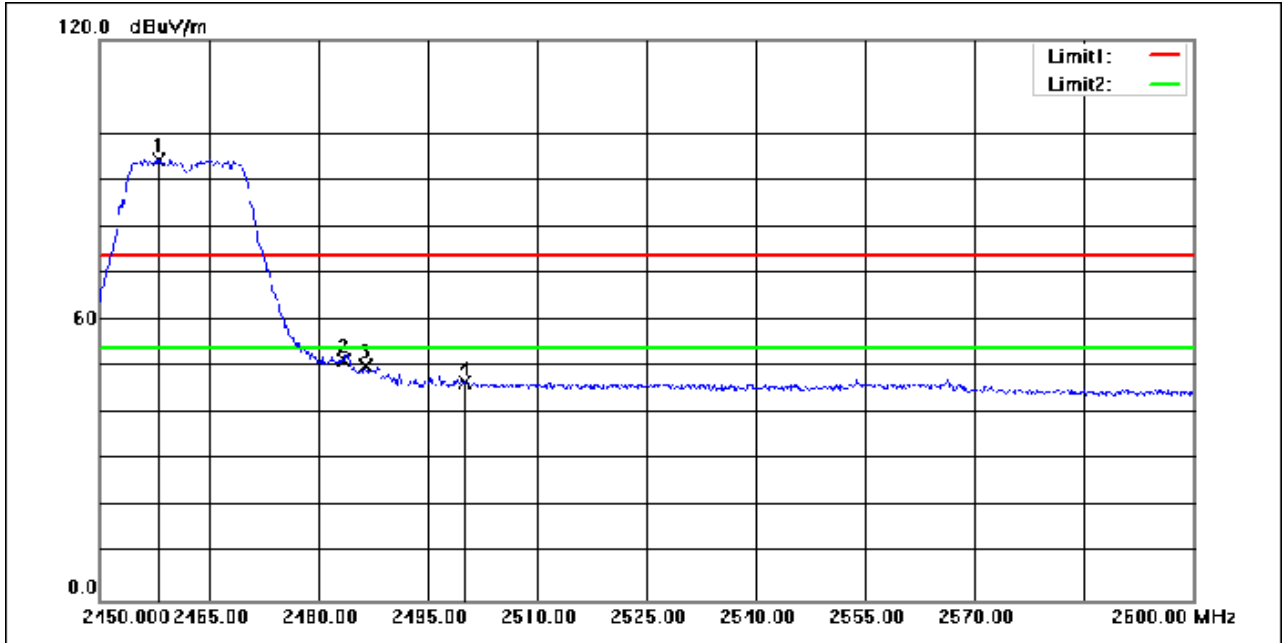


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2458.100	108.09	-13.79	94.30	74.00	20.30	peak
2	2483.500	65.11	-13.71	51.40	74.00	-22.60	peak
3	2486.450	63.86	-13.70	50.16	74.00	-23.84	peak
4	2500.000	60.20	-13.64	46.56	74.00	-27.44	peak

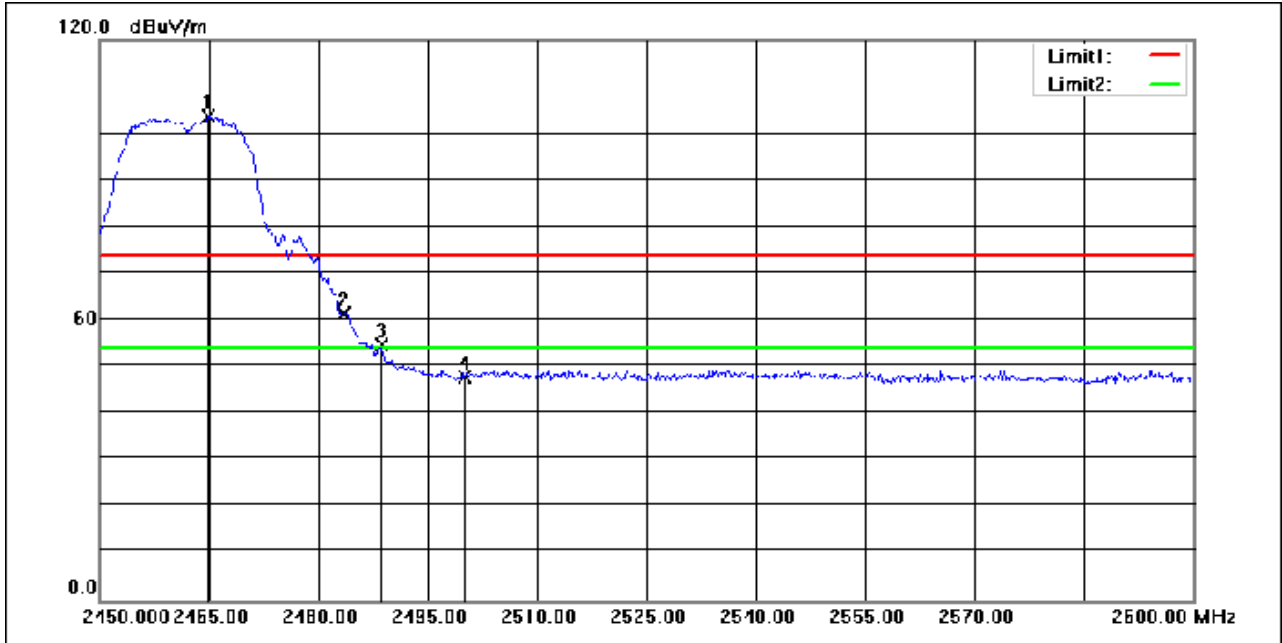


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



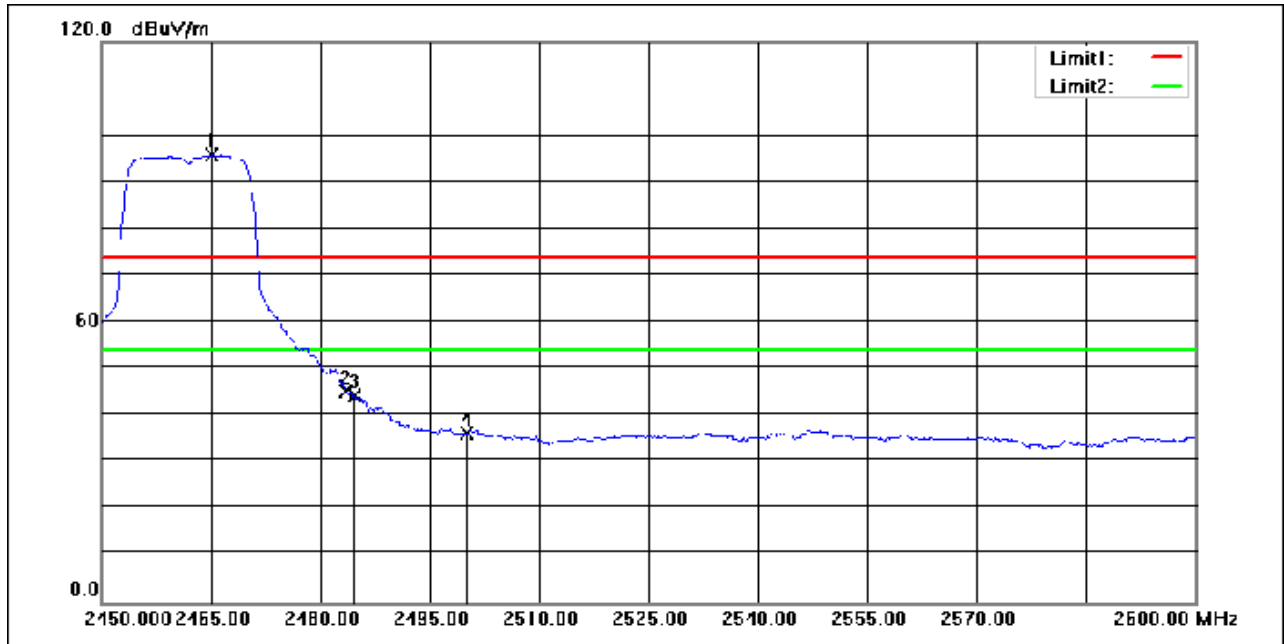
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2464.850	117.32	-13.76	103.56	74.00	29.56	peak
2	2483.500	74.93	-13.71	61.22	74.00	-12.78	peak
3	2488.700	68.31	-13.68	54.63	74.00	-19.37	peak
4	2500.000	61.56	-13.64	47.92	74.00	-26.08	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2465.150	109.50	-13.76	95.74	54.00	41.74	AVG
2	2483.500	58.94	-13.71	45.23	54.00	-8.77	AVG
3	2484.650	58.00	-13.70	44.30	54.00	-9.70	AVG
4	2500.000	49.70	-13.64	36.06	54.00	-17.94	AVG

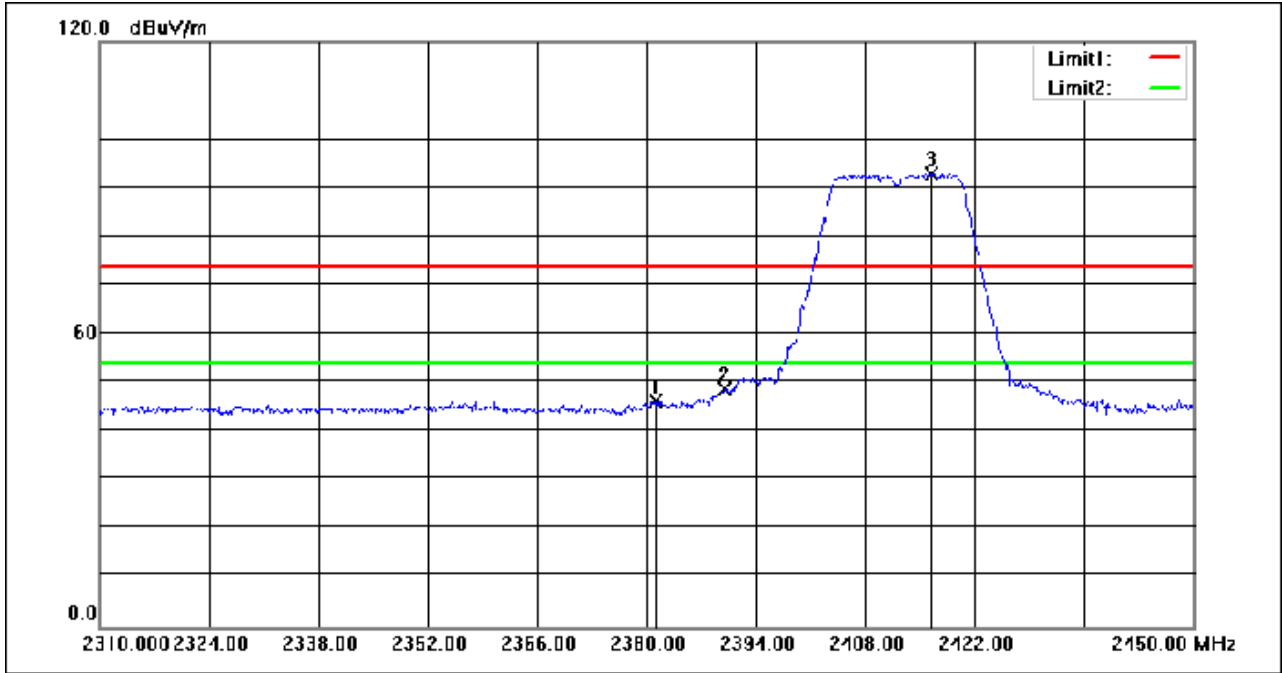


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2381.260	60.36	-14.03	46.33	74.00	-27.67	peak
2	2390.000	62.65	-14.01	48.64	74.00	-25.36	peak
3	2416.540	106.68	-13.93	92.75	74.00	18.75	peak

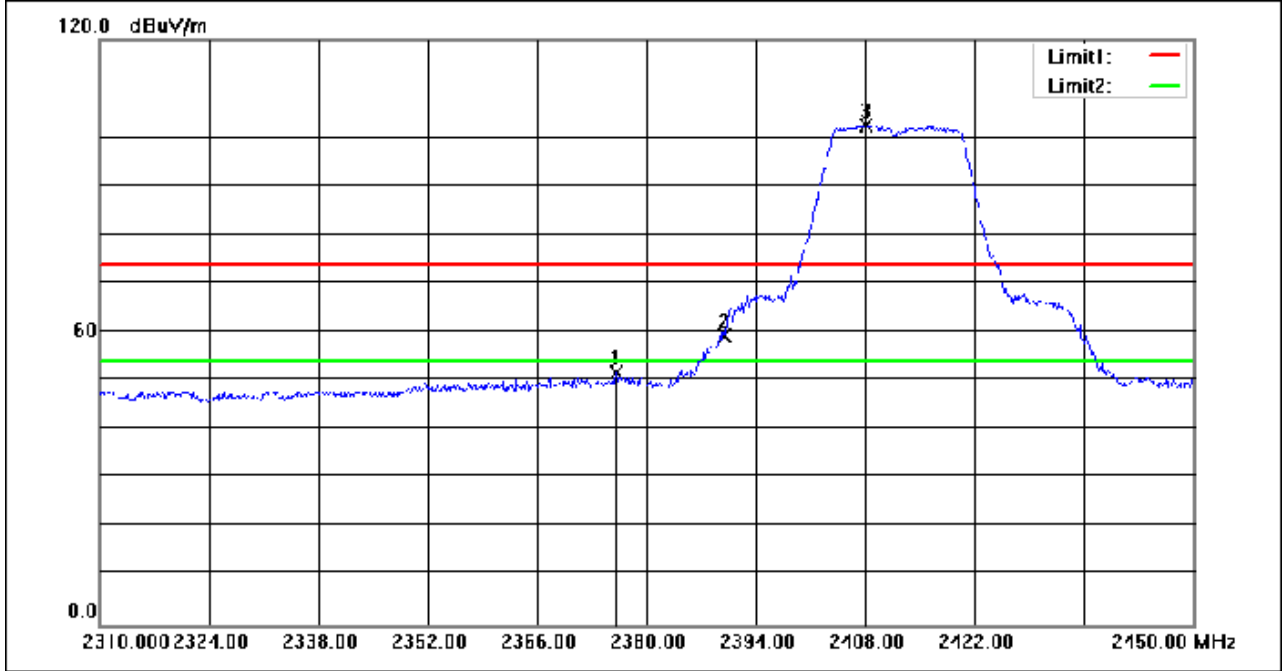


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2376.220	65.90	-14.05	51.85	74.00	-22.15	peak
2	2390.000	73.33	-14.01	59.32	74.00	-14.68	peak
3	2408.000	116.35	-13.95	102.40	74.00	28.40	peak



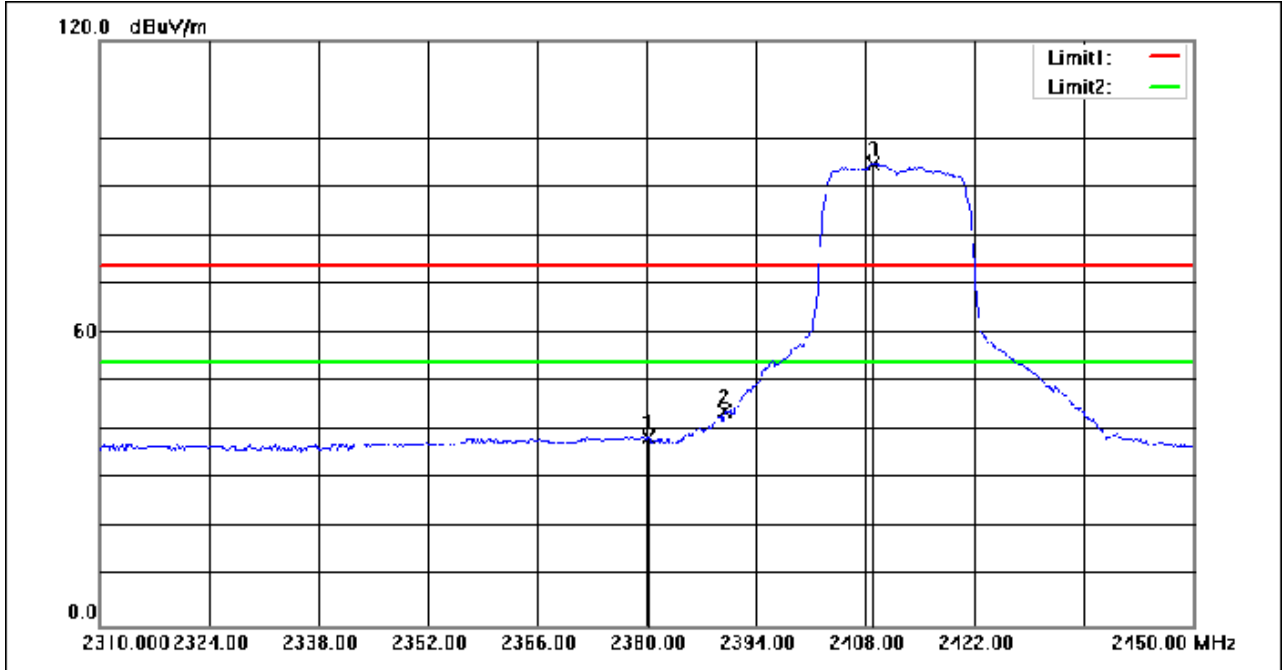
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2380.280	52.66	-14.03	38.63	54.00	-15.37	AVG
2	2390.000	58.07	-14.01	44.06	54.00	-9.94	AVG
3	2408.980	108.55	-13.95	94.60	54.00	40.60	AVG



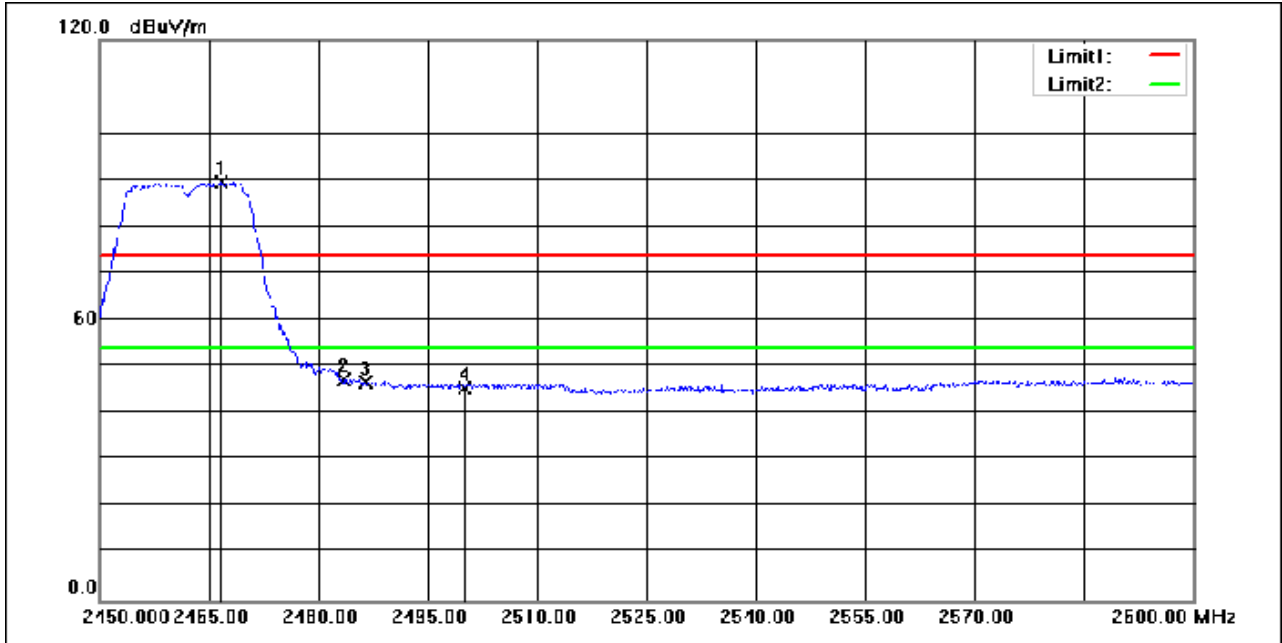
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EMC Laboratory

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



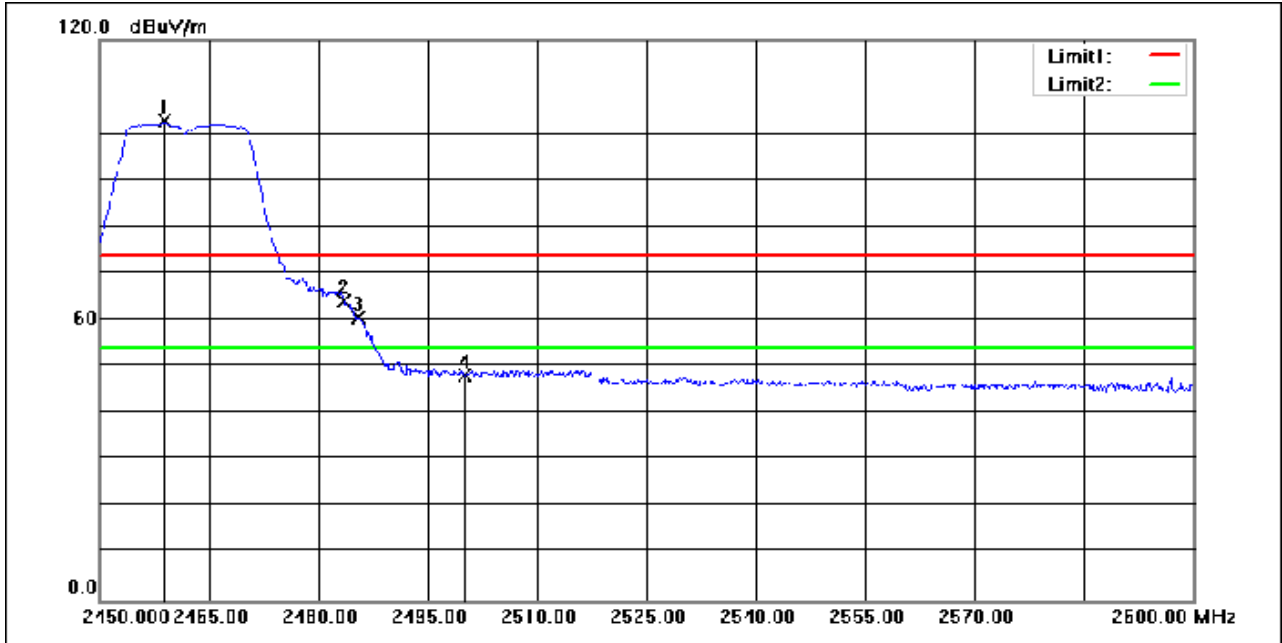
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2466.650	103.39	-13.76	89.63	74.00	15.63	peak
2	2483.500	60.93	-13.71	47.22	74.00	-26.78	peak
3	2486.450	60.34	-13.70	46.64	74.00	-27.36	peak
4	2500.000	59.16	-13.64	45.52	74.00	-28.48	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2458.850	116.48	-13.79	102.69	74.00	28.69	peak
2	2483.500	77.73	-13.71	64.02	74.00	-9.98	peak
3	2485.400	74.06	-13.70	60.36	74.00	-13.64	peak
4	2500.000	61.73	-13.64	48.09	74.00	-25.91	peak

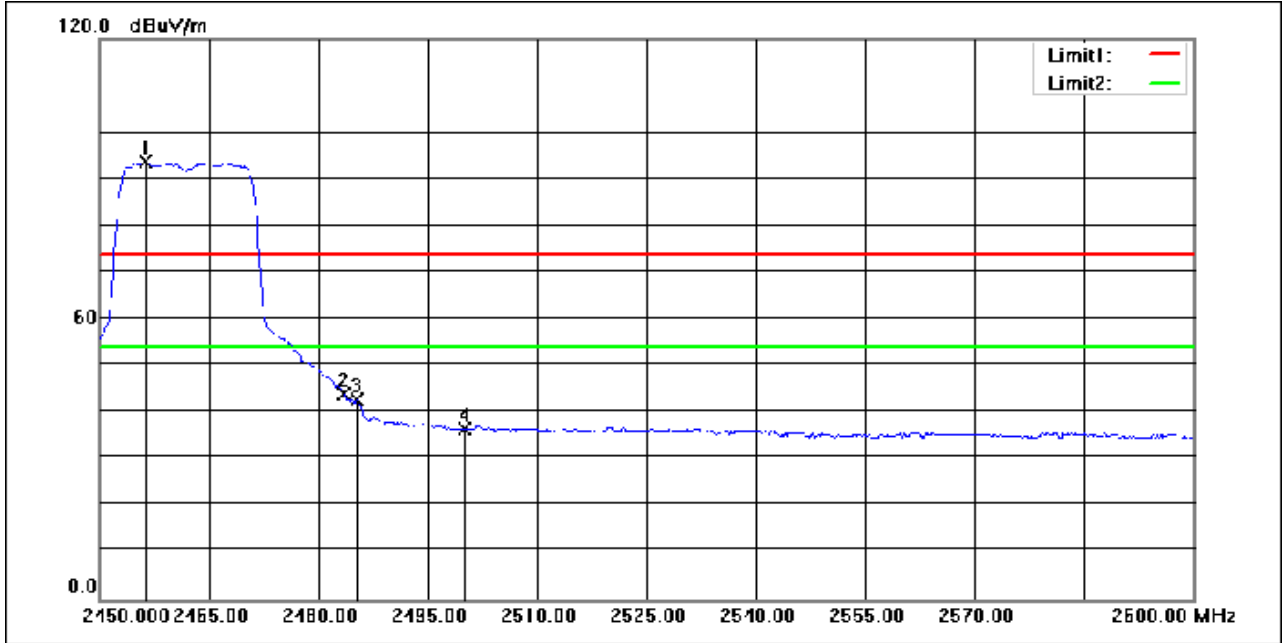


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2456.300	107.44	-13.79	93.65	54.00	39.65	AVG
2	2483.500	57.77	-13.71	44.06	54.00	-9.94	AVG
3	2485.250	56.48	-13.70	42.78	54.00	-11.22	AVG
4	2500.000	50.20	-13.64	36.56	54.00	-17.44	AVG

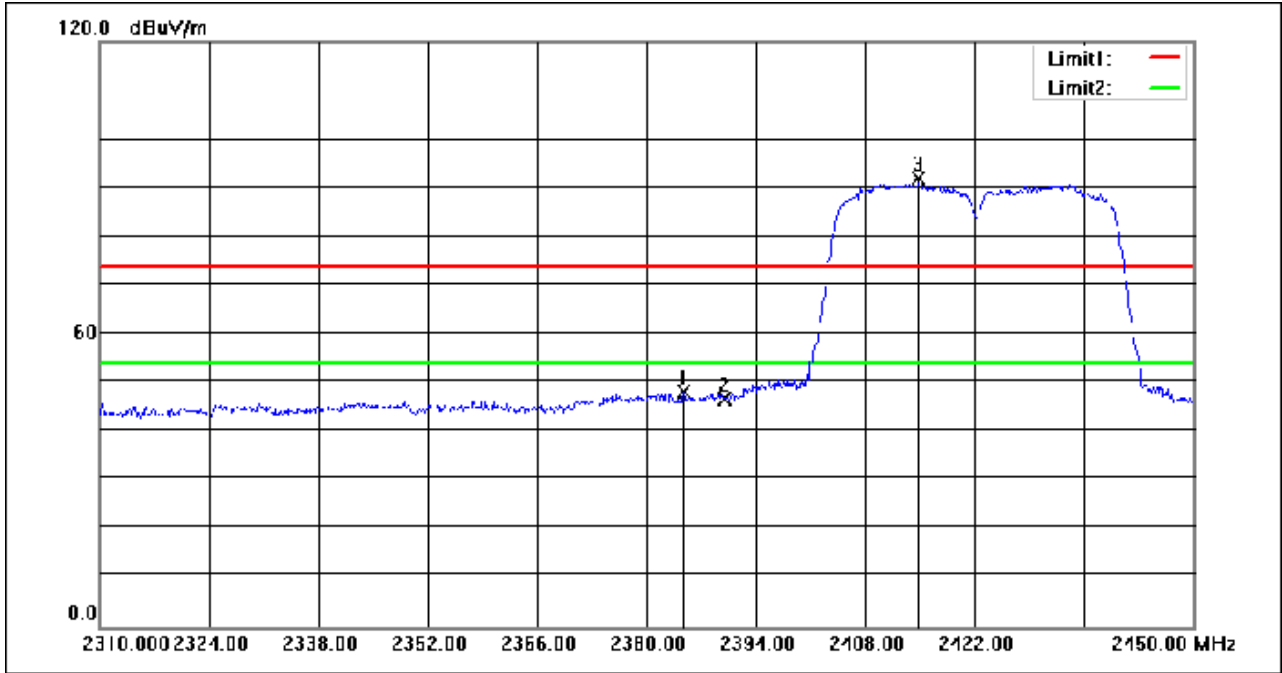


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.760	62.09	-14.03	48.06	74.00	-25.94	peak
2	2390.000	60.56	-14.01	46.55	74.00	-27.45	peak
3	2414.720	105.99	-13.93	92.06	74.00	18.06	peak

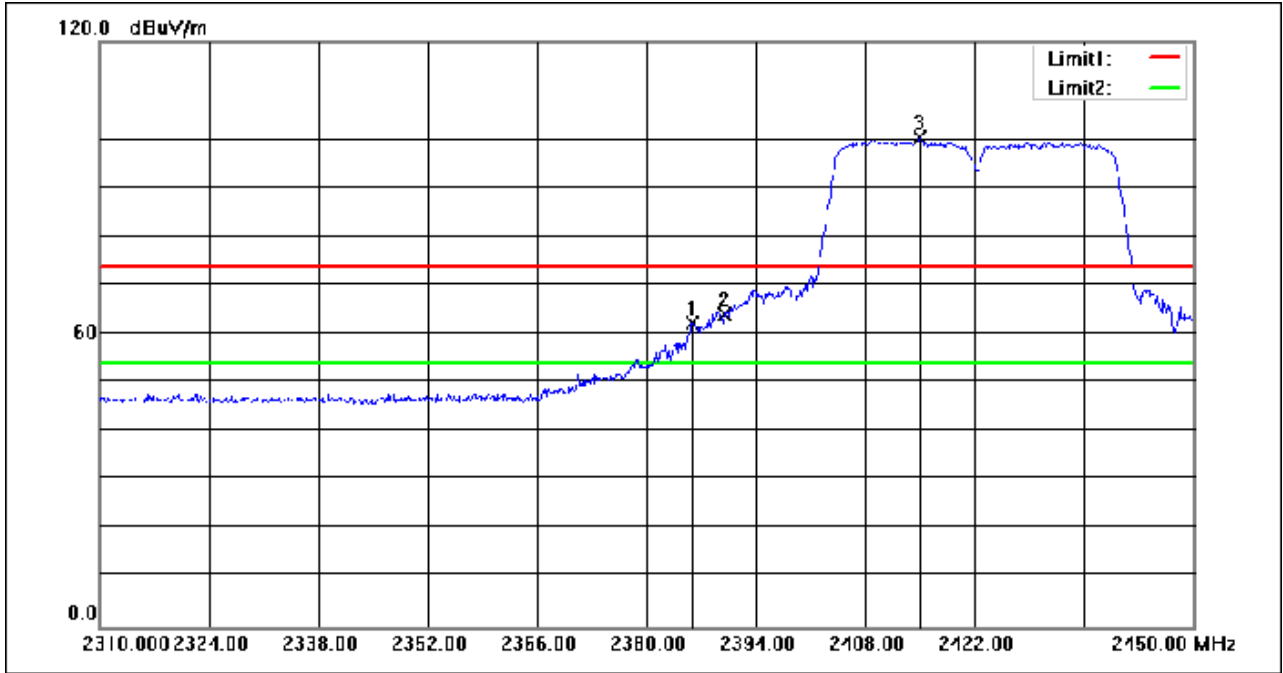


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.880	76.32	-14.02	62.30	74.00	-11.70	peak
2	2390.000	78.07	-14.01	64.06	74.00	-9.94	peak
3	2415.000	114.19	-13.93	100.26	74.00	26.26	peak

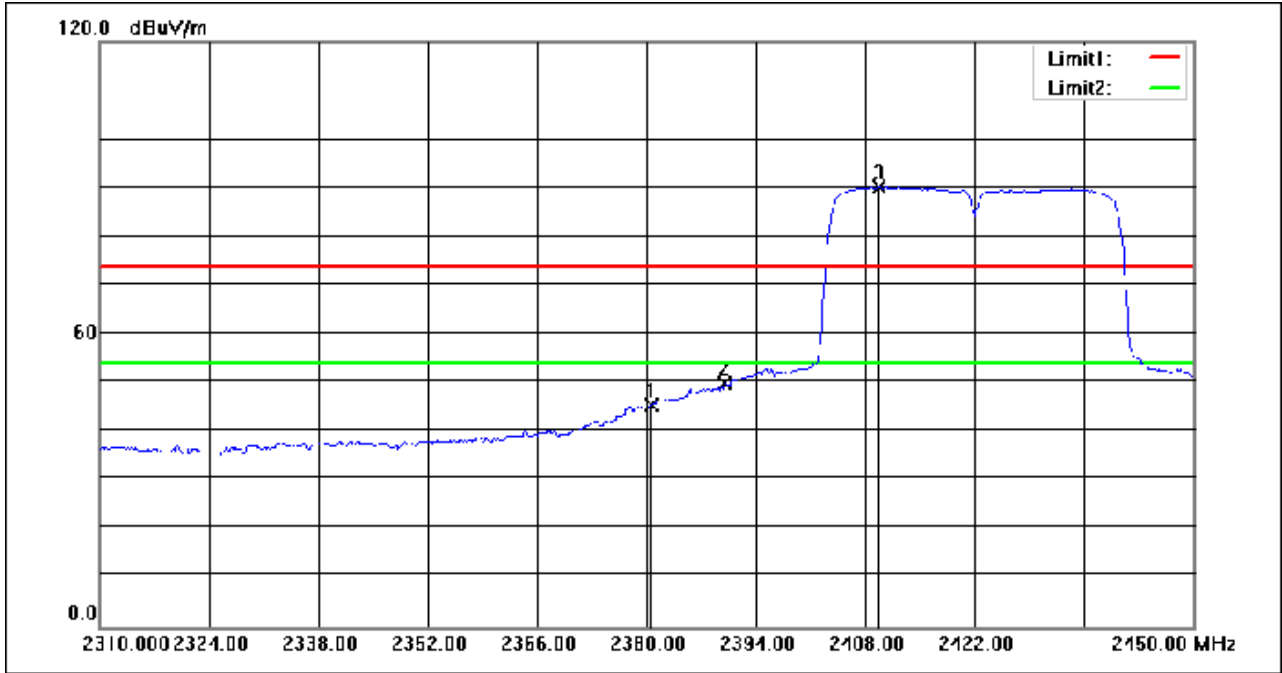


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



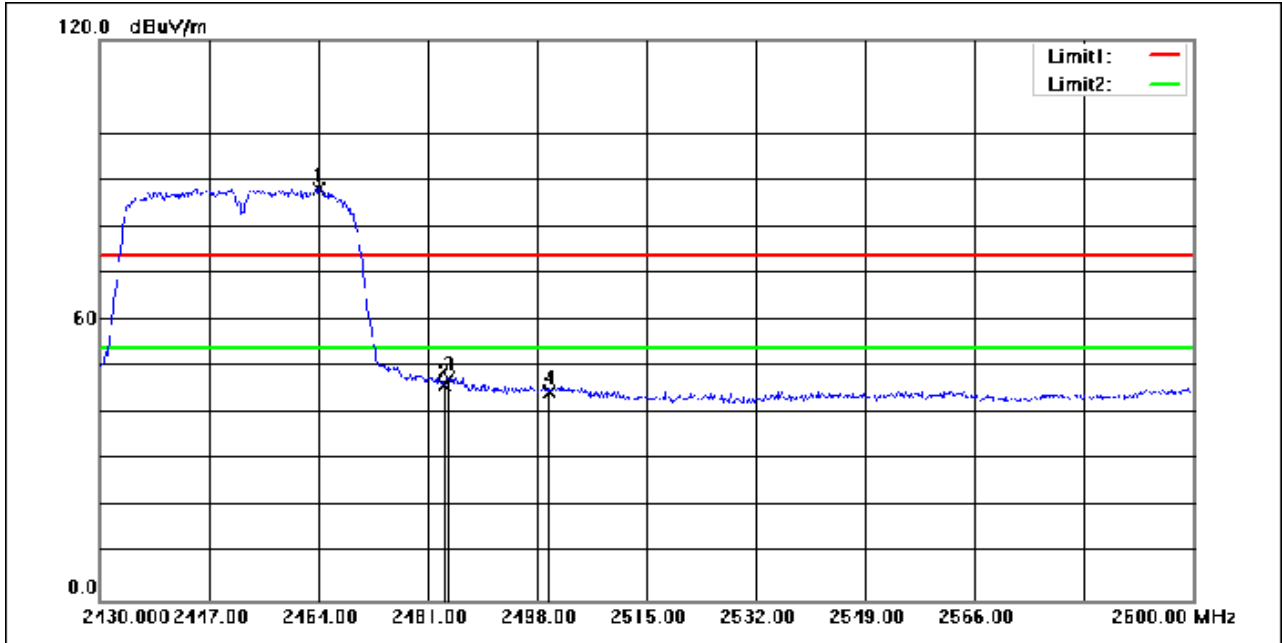
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2380.700	59.59	-14.03	45.56	54.00	-8.44	AVG
2	2390.000	63.86	-14.01	49.85	54.00	-4.15	AVG
3	2409.820	104.01	-13.95	90.06	54.00	36.06	AVG



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2464.000	101.83	-13.77	88.06	74.00	14.06	peak
2	2483.500	59.84	-13.71	46.13	74.00	-27.87	peak
3	2484.230	61.30	-13.70	47.60	74.00	-26.40	peak
4	2500.000	58.10	-13.64	44.46	74.00	-29.54	peak

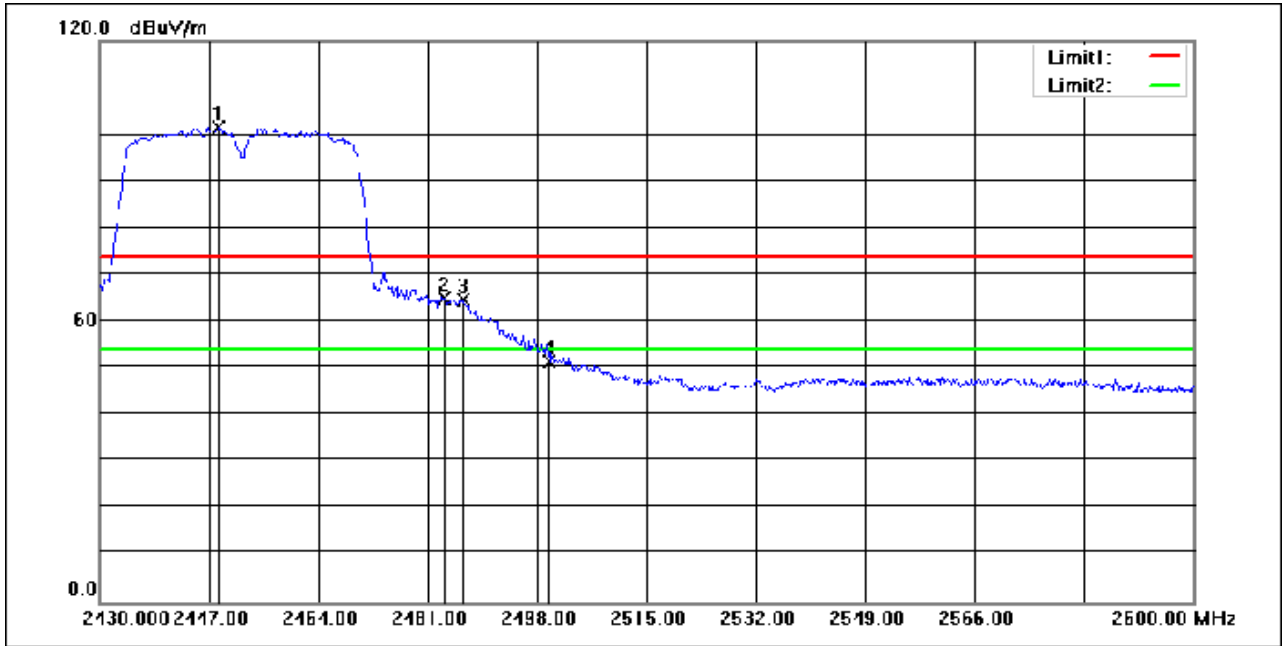


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2448.530	115.23	-13.82	101.41	74.00	27.41	peak
2	2483.500	78.59	-13.71	64.88	74.00	-9.12	peak
3	2486.440	78.39	-13.70	64.69	74.00	-9.31	peak
4	2500.000	65.11	-13.64	51.47	74.00	-22.53	peak

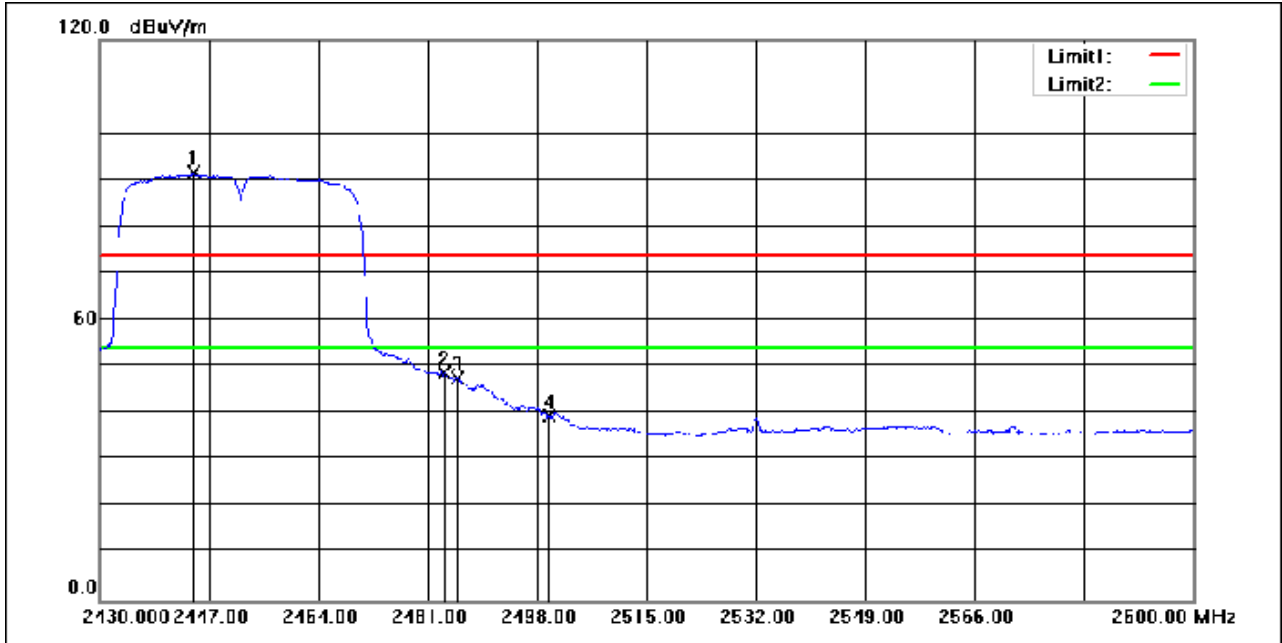


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2444.620	105.39	-13.83	91.56	54.00	37.56	AVG
2	2483.500	62.34	-13.71	48.63	54.00	-5.37	AVG
3	2485.590	61.23	-13.70	47.53	54.00	-6.47	AVG
4	2500.000	53.24	-13.64	39.60	54.00	-14.40	AVG



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6.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

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
960-1000	500	3

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C

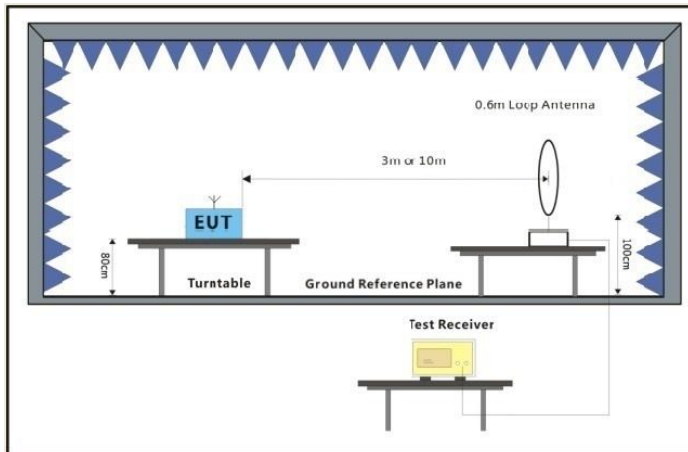
Humidity: 47.3 % RH

Atmospheric Pressure: 1010 mbar

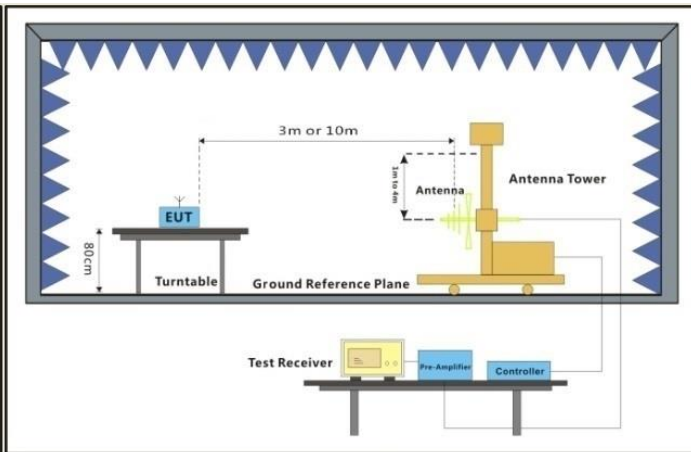
6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

6.2.3 Test Setup Diagram



Below 30MHz



30MHz-1GHz



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6.2.4 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. 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.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance 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.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 4. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



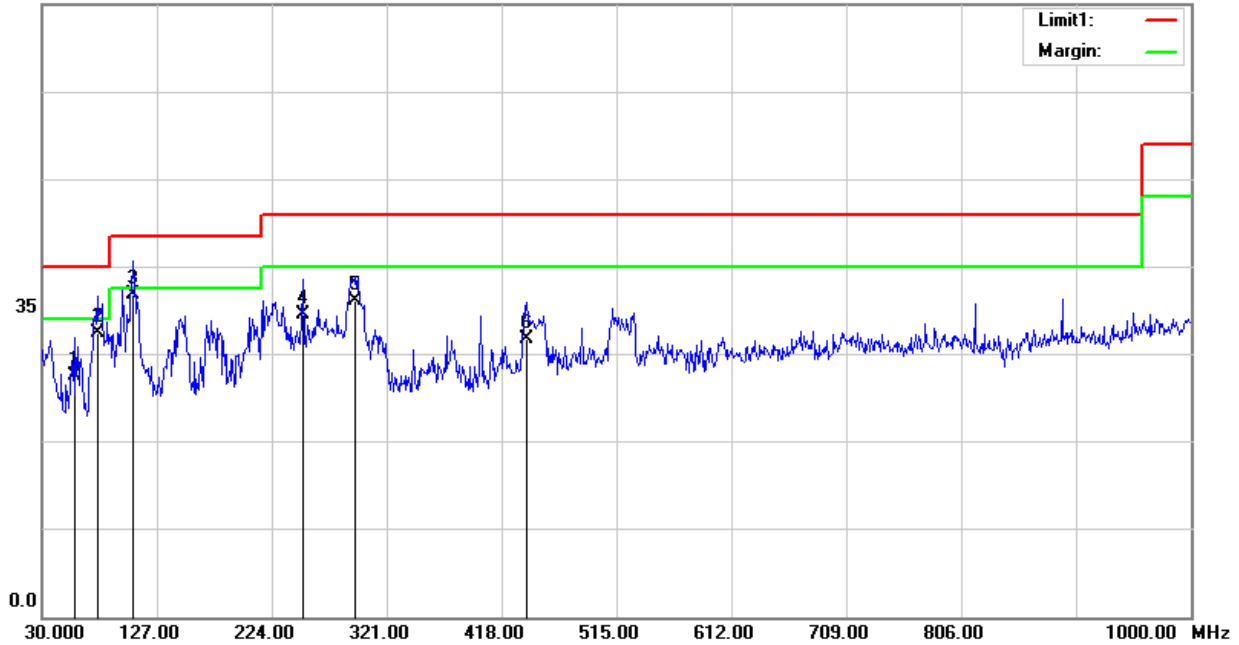
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Test Mode: 00; Polarity: Horizontal

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	58.1300	12.35	15.24	27.59	40.00	-12.41	100	251	QP
2	76.5600	17.72	14.68	32.40	40.00	-7.60	100	36	QP
3	106.6300	18.77	18.05	36.82	43.50	-6.68	100	59	QP
4	250.1900	14.85	19.78	34.63	46.00	-11.37	100	360	QP
5	293.8400	15.55	20.57	36.12	46.00	-9.88	100	198	QP
6	439.3400	7.72	24.02	31.74	46.00	-14.26	100	120	QP

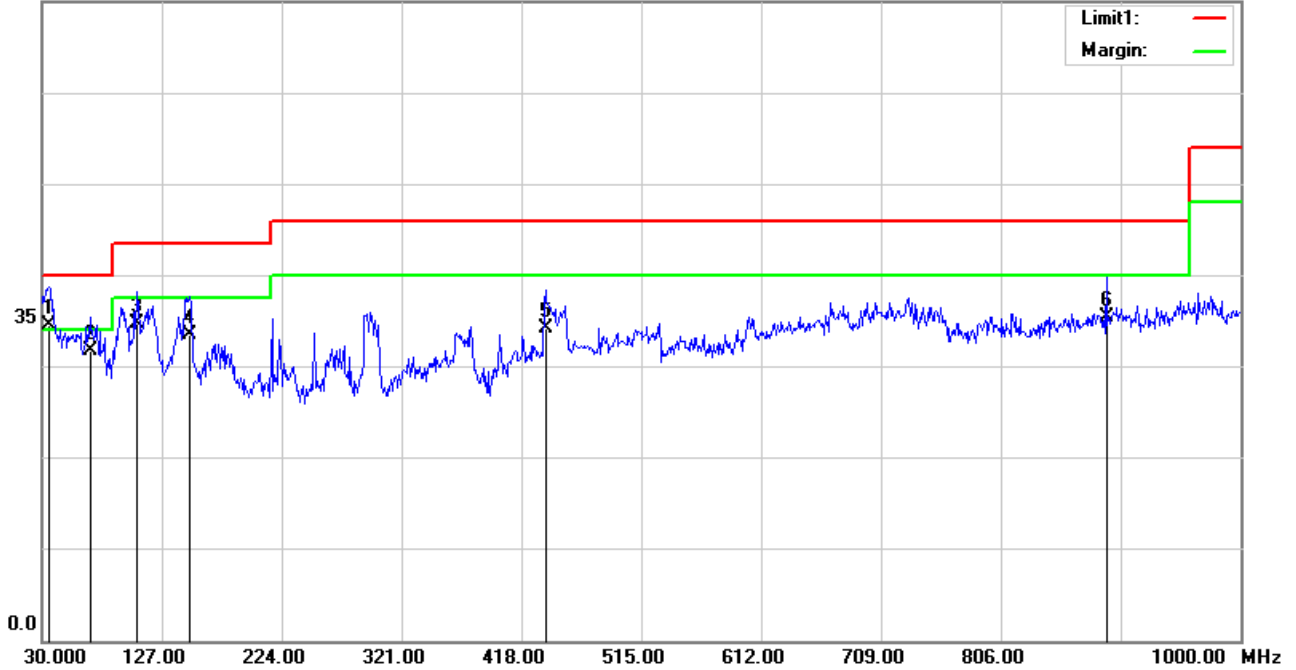


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Test Mode: 00; Polarity: Vertical

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	35.8200	10.33	24.19	34.52	40.00	-5.48	100	19	QP
2	68.8000	16.24	15.60	31.84	40.00	-8.16	100	360	QP
3	106.6300	16.64	18.05	34.69	43.50	-8.81	100	152	QP
4	149.3100	15.72	17.86	33.58	43.50	-9.92	100	216	QP
5	437.4000	10.27	24.00	34.27	46.00	-11.73	100	248	QP
6	891.3600	32.97	2.39	35.36	46.00	-10.64	100	304	QP



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6.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

6.3.1 E.U.T. Operation

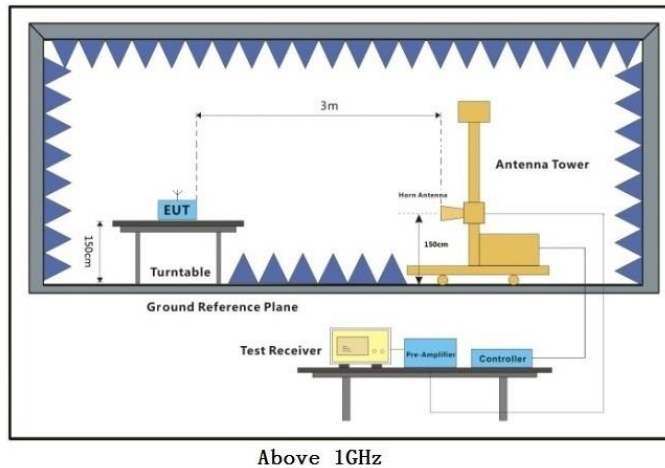
Operating Environment:

Temperature: 24.3 °C Humidity: 47.3 % RH Atmospheric Pressure: 1010 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

6.3.3 Test Setup Diagram



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6.3.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz 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.
3. 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.
4. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.

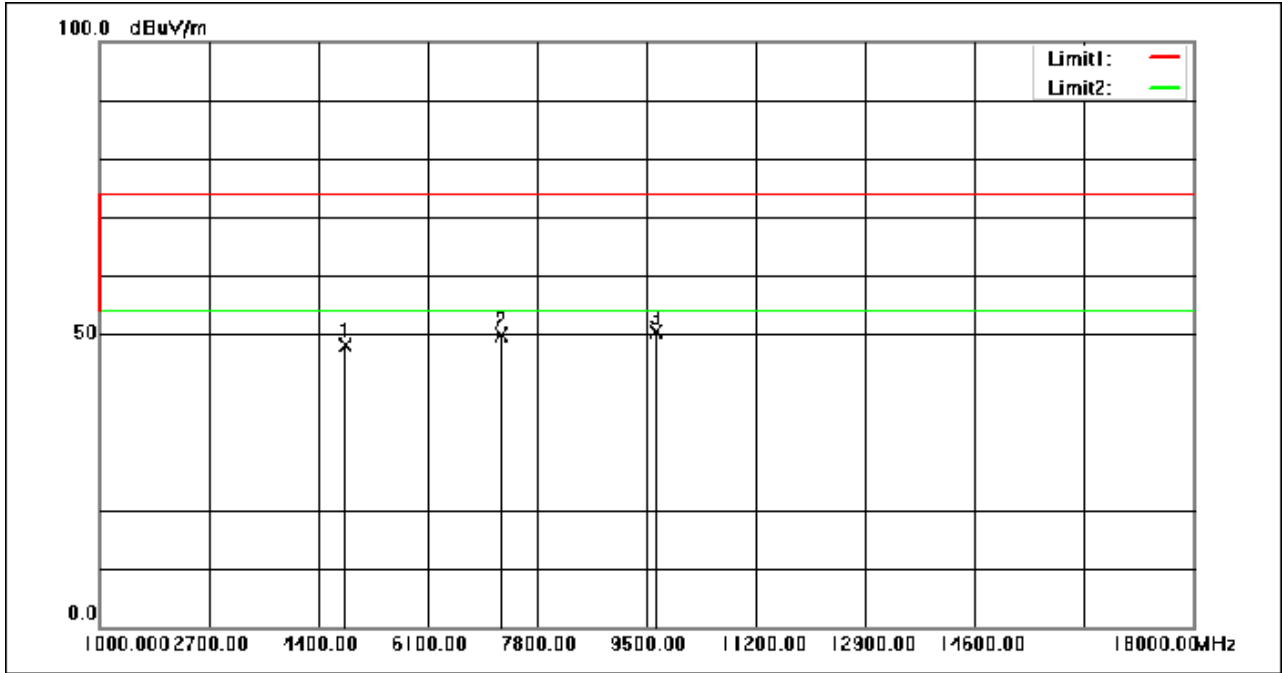


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	56.84	-8.78	48.06	74.00	-25.94	peak
2	7236.000	55.81	-5.86	49.95	74.00	-24.05	peak
3	9648.000	51.58	-1.31	50.27	74.00	-23.73	peak



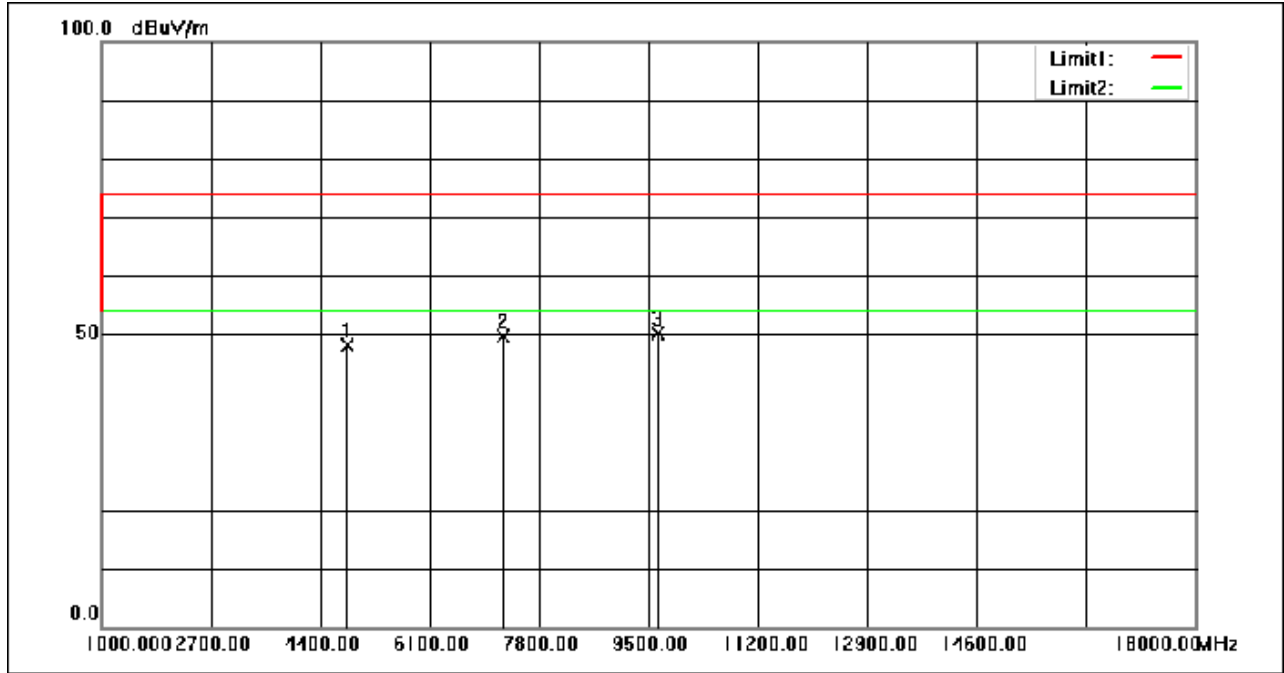
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	56.85	-8.78	48.07	74.00	-25.93	peak
2	7236.000	55.48	-5.86	49.62	74.00	-24.38	peak
3	9648.000	51.46	-1.31	50.15	74.00	-23.85	peak



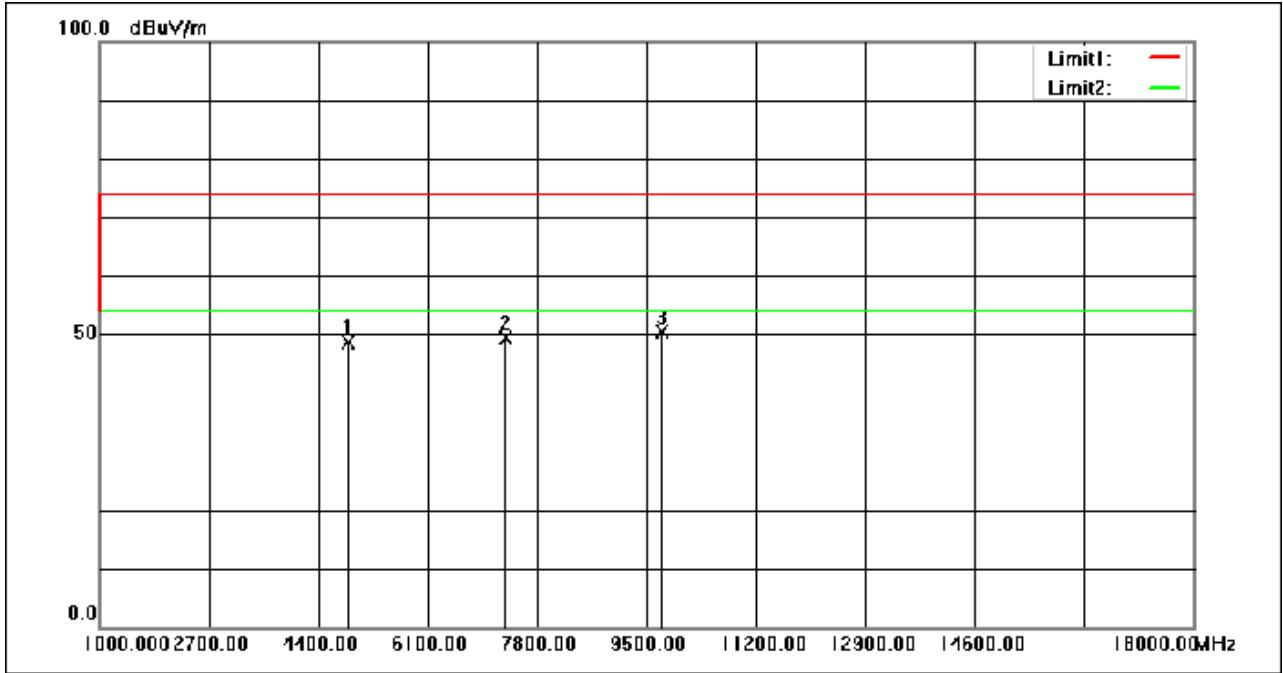
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.32	-8.61	48.71	74.00	-25.29	peak
2	7311.000	55.04	-5.78	49.26	74.00	-24.74	peak
3	9748.000	51.74	-1.43	50.31	74.00	-23.69	peak



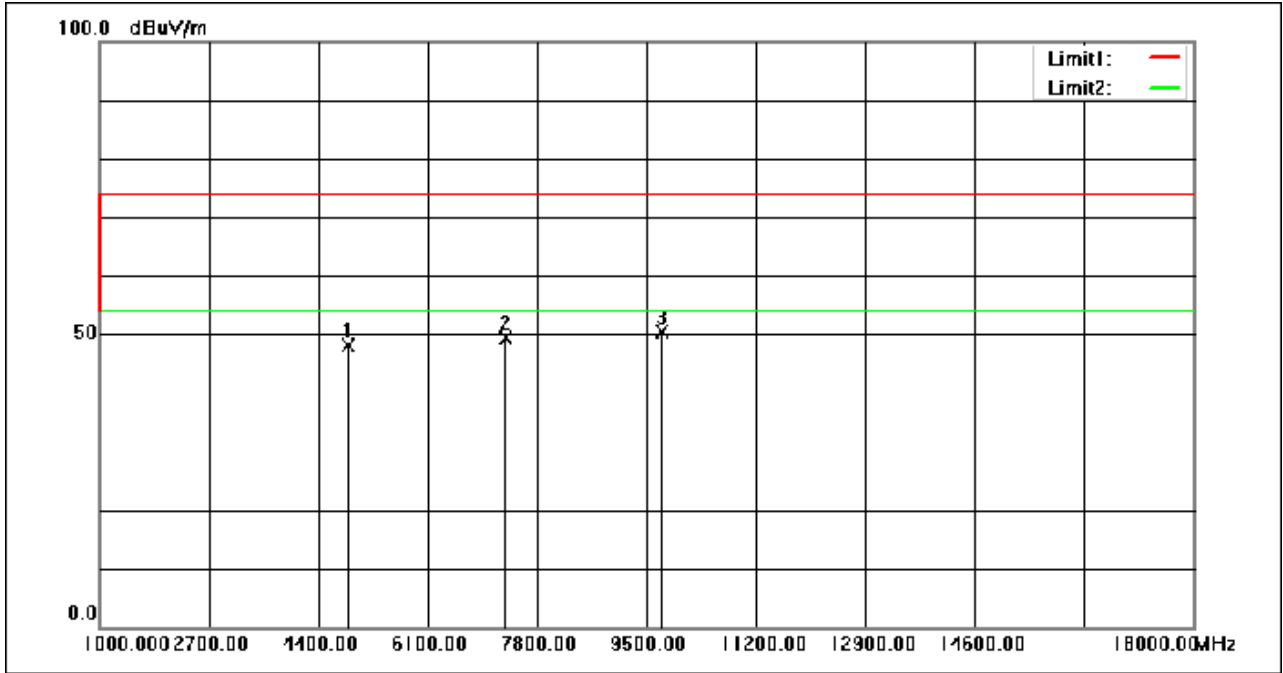
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	56.74	-8.61	48.13	74.00	-25.87	peak
2	7311.000	55.12	-5.78	49.34	74.00	-24.66	peak
3	9748.000	51.83	-1.43	50.40	74.00	-23.60	peak



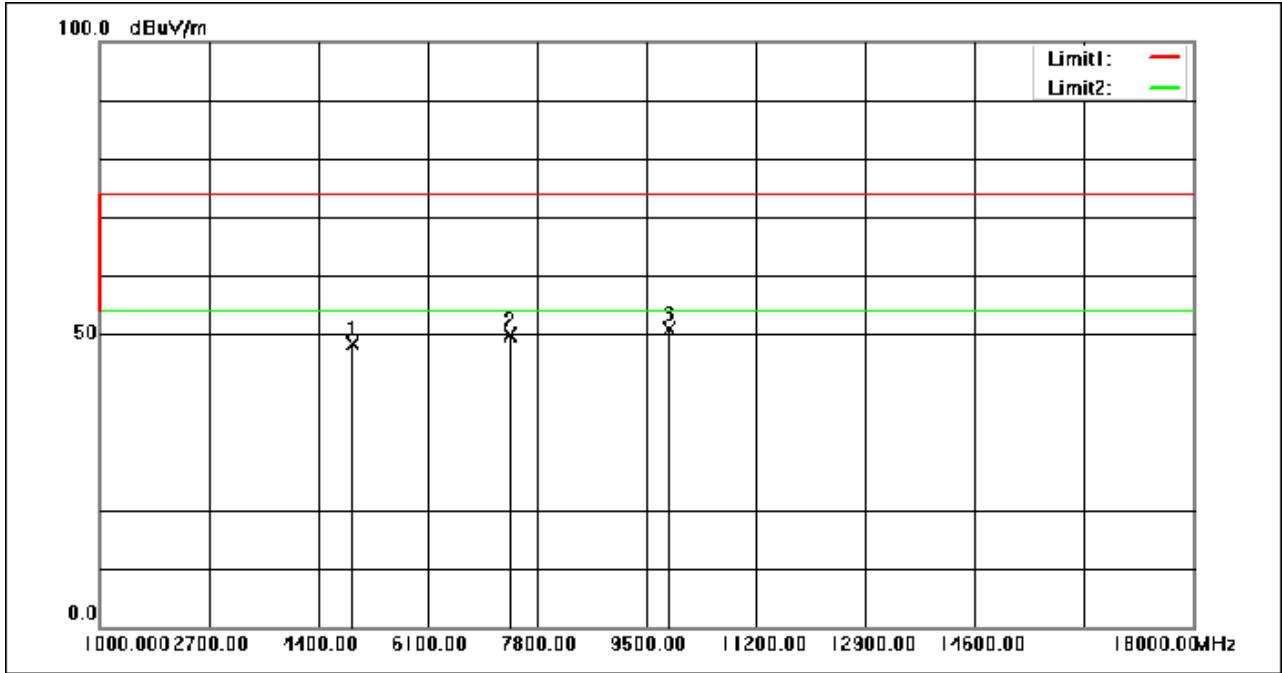
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	56.87	-8.44	48.43	74.00	-25.57	peak
2	7386.000	55.47	-5.69	49.78	74.00	-24.22	peak
3	9848.000	52.14	-1.27	50.87	74.00	-23.13	peak

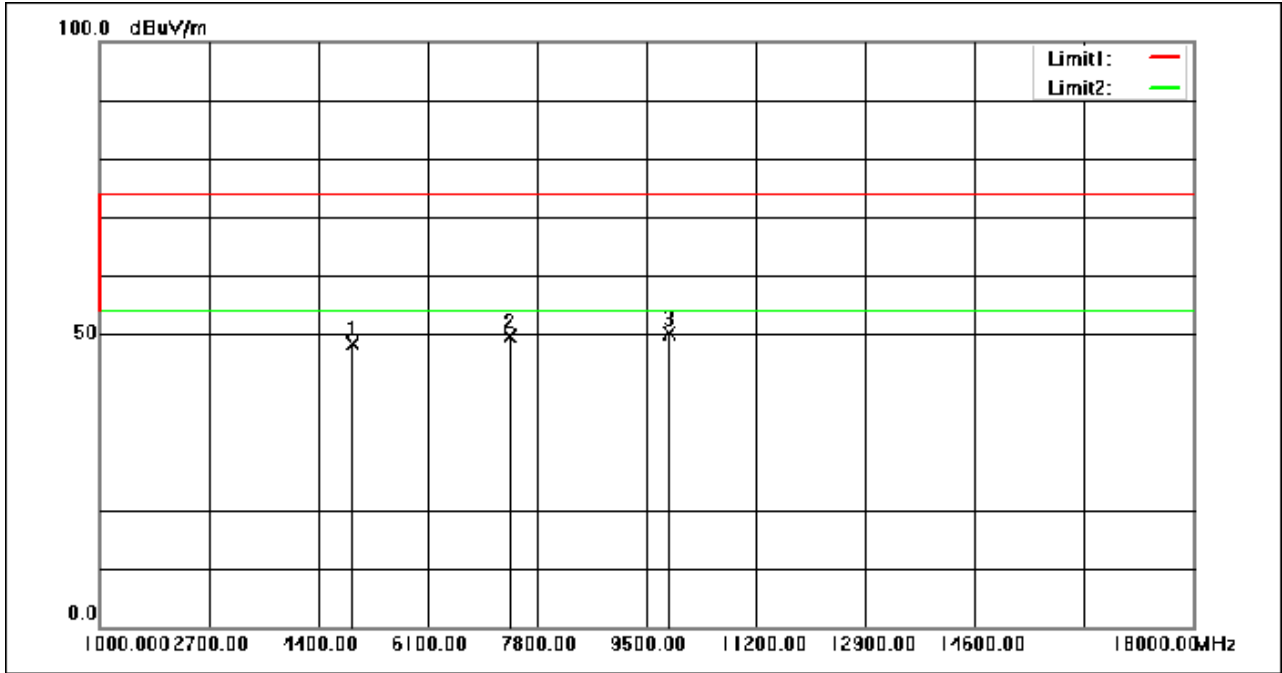


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	56.93	-8.44	48.49	74.00	-25.51	peak
2	7386.000	55.38	-5.69	49.69	74.00	-24.31	peak
3	9848.000	51.41	-1.27	50.14	74.00	-23.86	peak



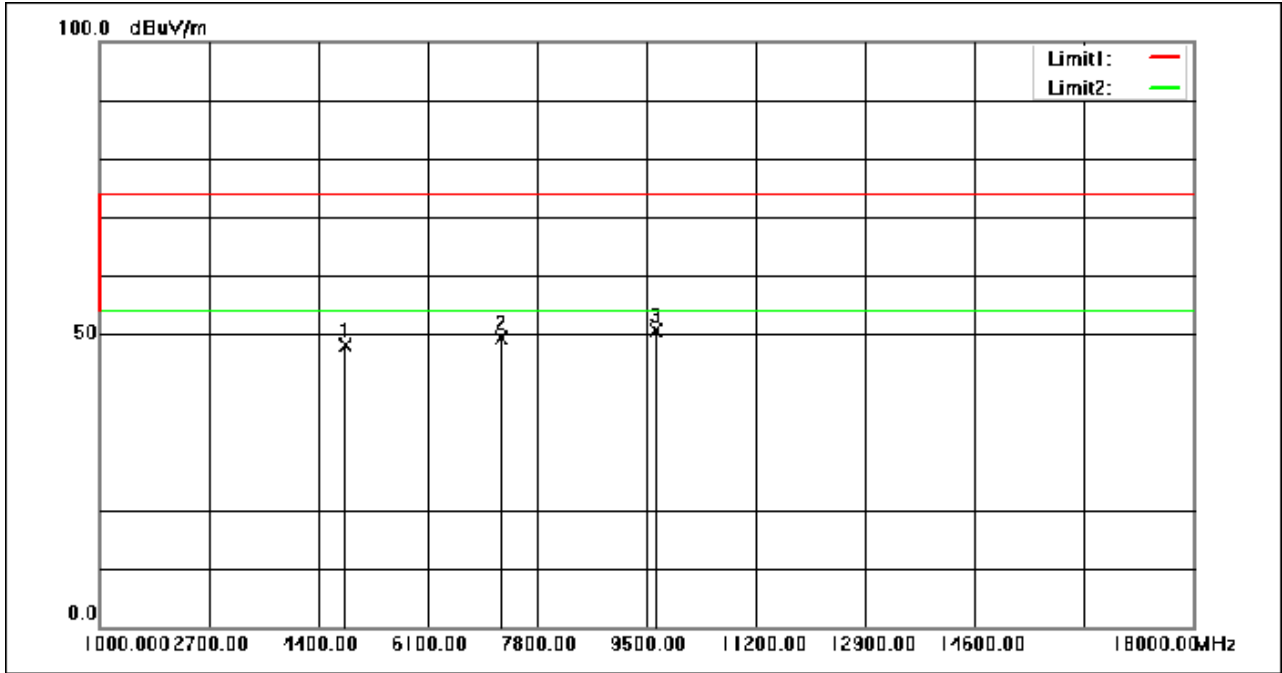
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	56.95	-8.78	48.17	74.00	-25.83	peak
2	7236.000	55.25	-5.86	49.39	74.00	-24.61	peak
3	9648.000	51.86	-1.31	50.55	74.00	-23.45	peak

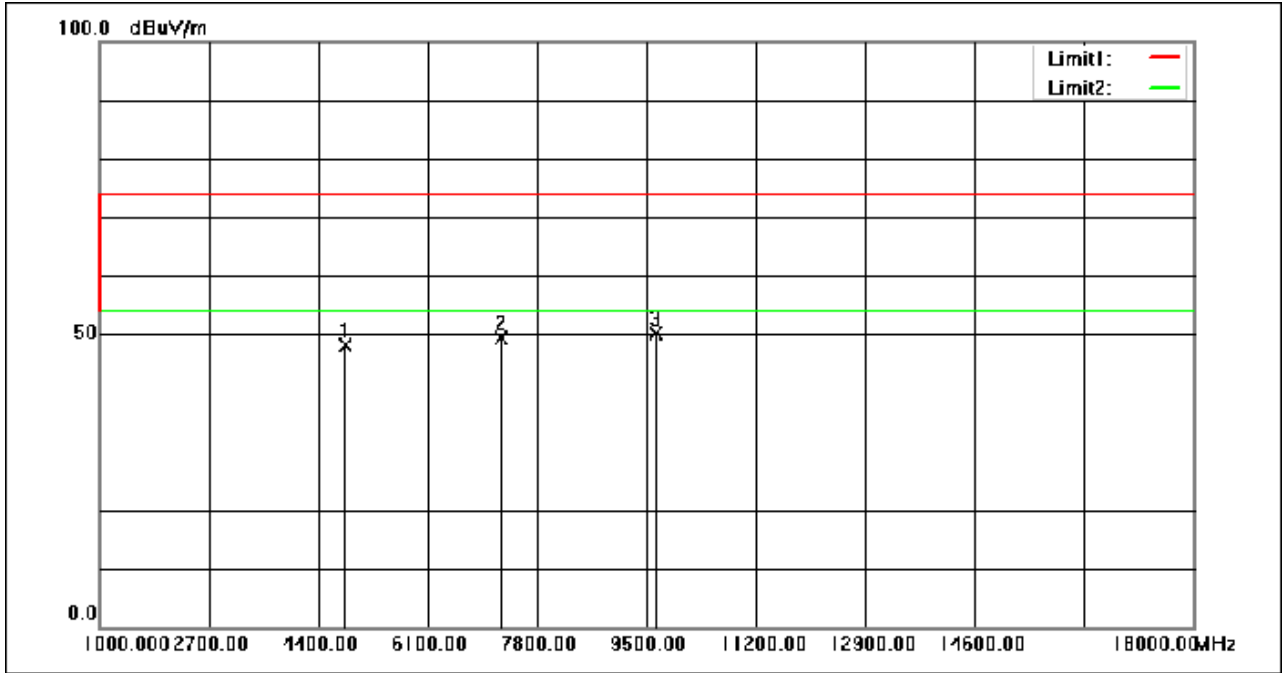


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	56.79	-8.78	48.01	74.00	-25.99	peak
2	7236.000	55.24	-5.86	49.38	74.00	-24.62	peak
3	9648.000	51.52	-1.31	50.21	74.00	-23.79	peak



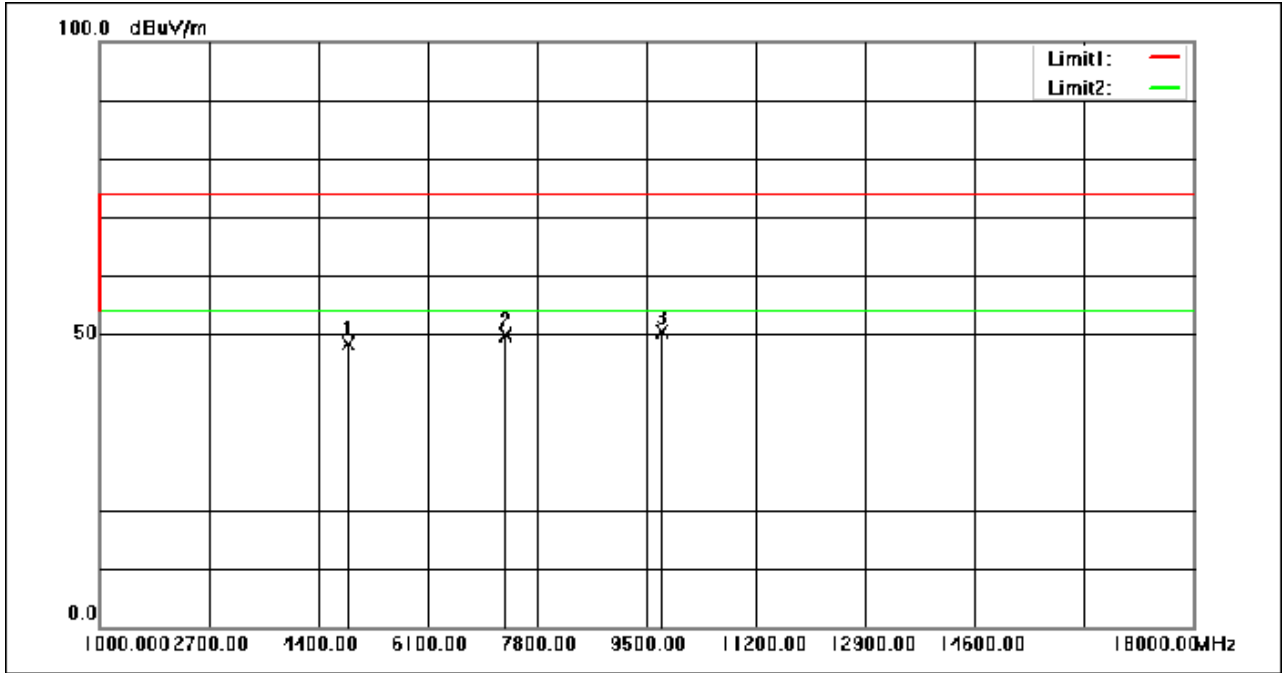
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.07	-8.61	48.46	74.00	-25.54	peak
2	7311.000	55.65	-5.78	49.87	74.00	-24.13	peak
3	9748.000	51.76	-1.43	50.33	74.00	-23.67	peak

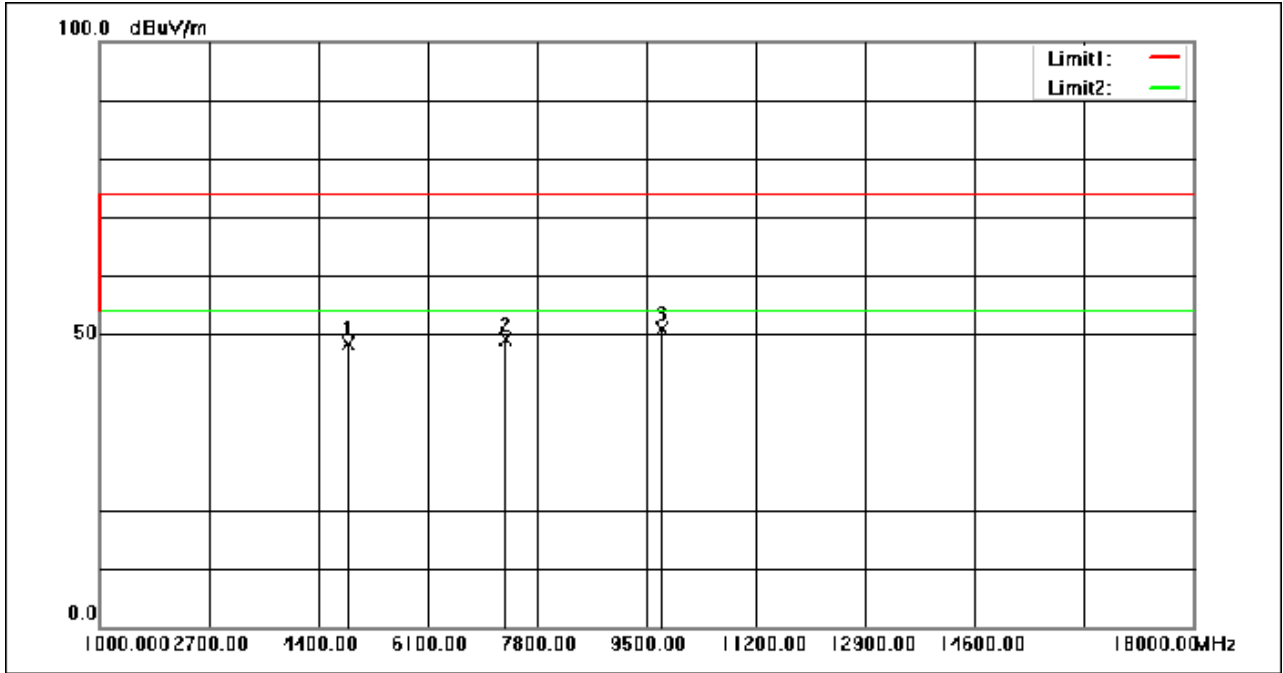


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.02	-8.61	48.41	74.00	-25.59	peak
2	7311.000	54.91	-5.78	49.13	74.00	-24.87	peak
3	9748.000	52.26	-1.43	50.83	74.00	-23.17	peak

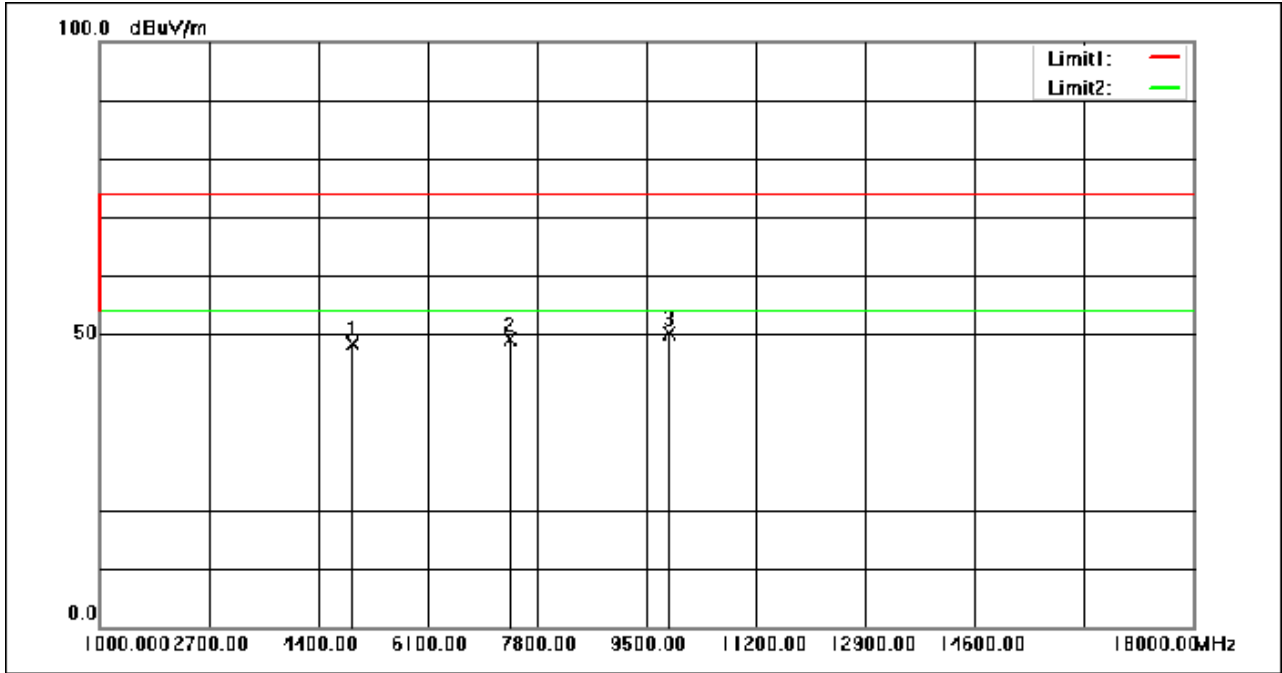


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	56.74	-8.44	48.30	74.00	-25.70	peak
2	7386.000	54.82	-5.69	49.13	74.00	-24.87	peak
3	9848.000	51.46	-1.27	50.19	74.00	-23.81	peak

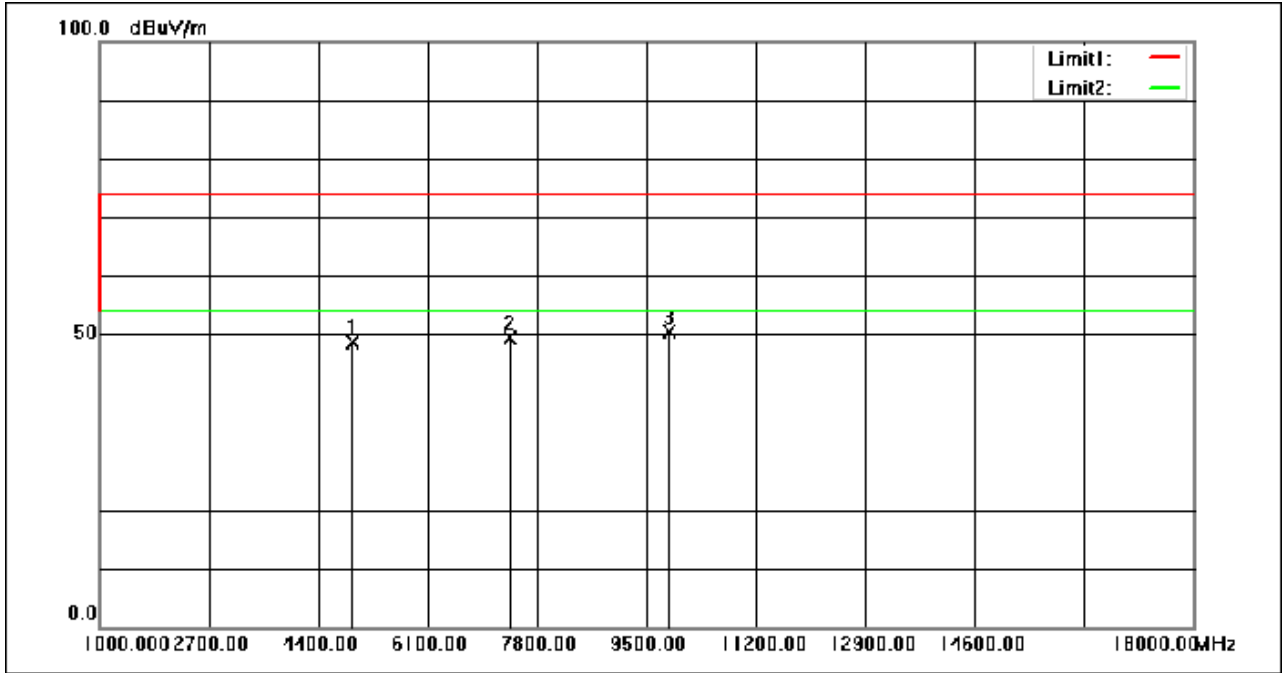


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



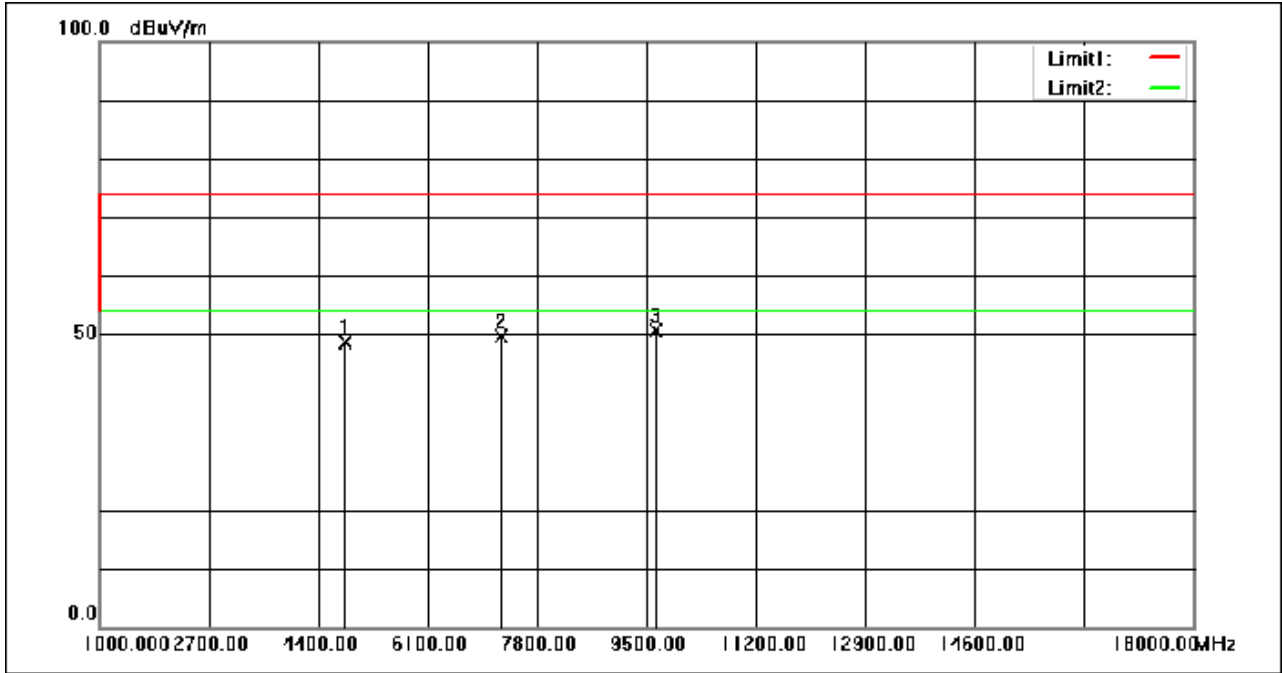
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	57.10	-8.44	48.66	74.00	-25.34	peak
2	7386.000	55.16	-5.69	49.47	74.00	-24.53	peak
3	9848.000	51.55	-1.27	50.28	74.00	-23.72	peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.33	-8.78	48.55	74.00	-25.45	peak
2	7236.000	55.51	-5.86	49.65	74.00	-24.35	peak
3	9648.000	51.92	-1.31	50.61	74.00	-23.39	peak



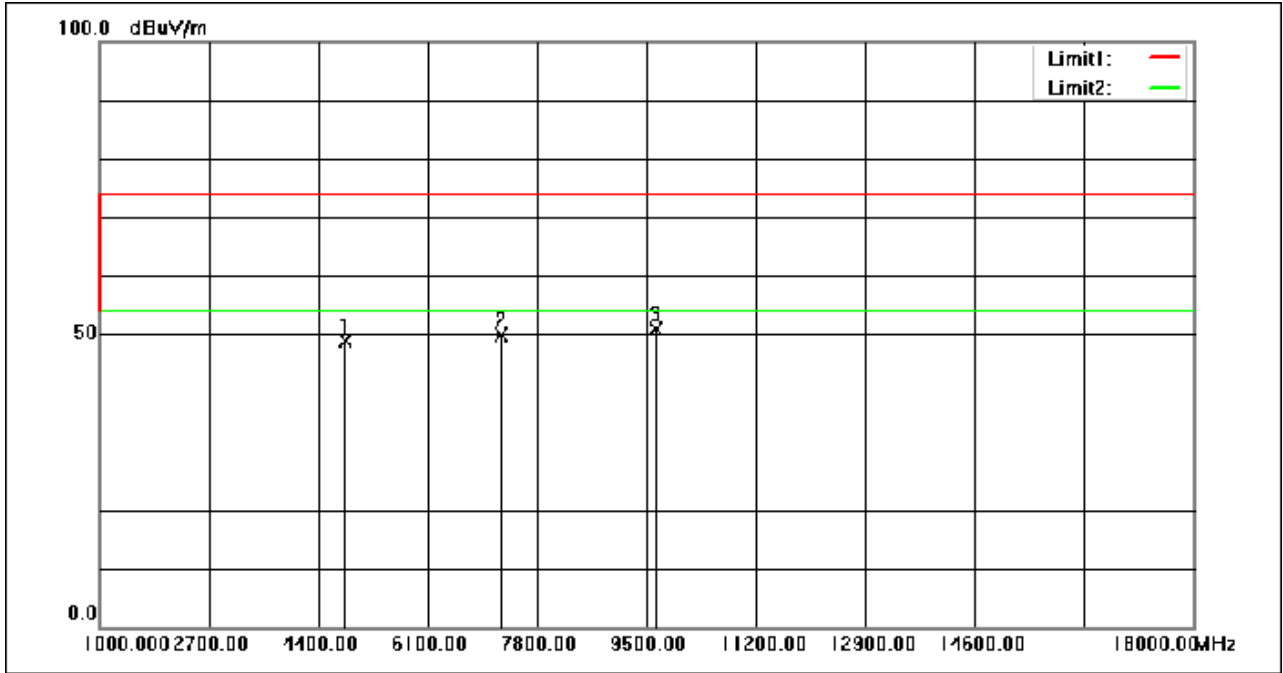
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.57	-8.78	48.79	74.00	-25.21	peak
2	7236.000	55.77	-5.86	49.91	74.00	-24.09	peak
3	9648.000	52.30	-1.31	50.99	74.00	-23.01	peak



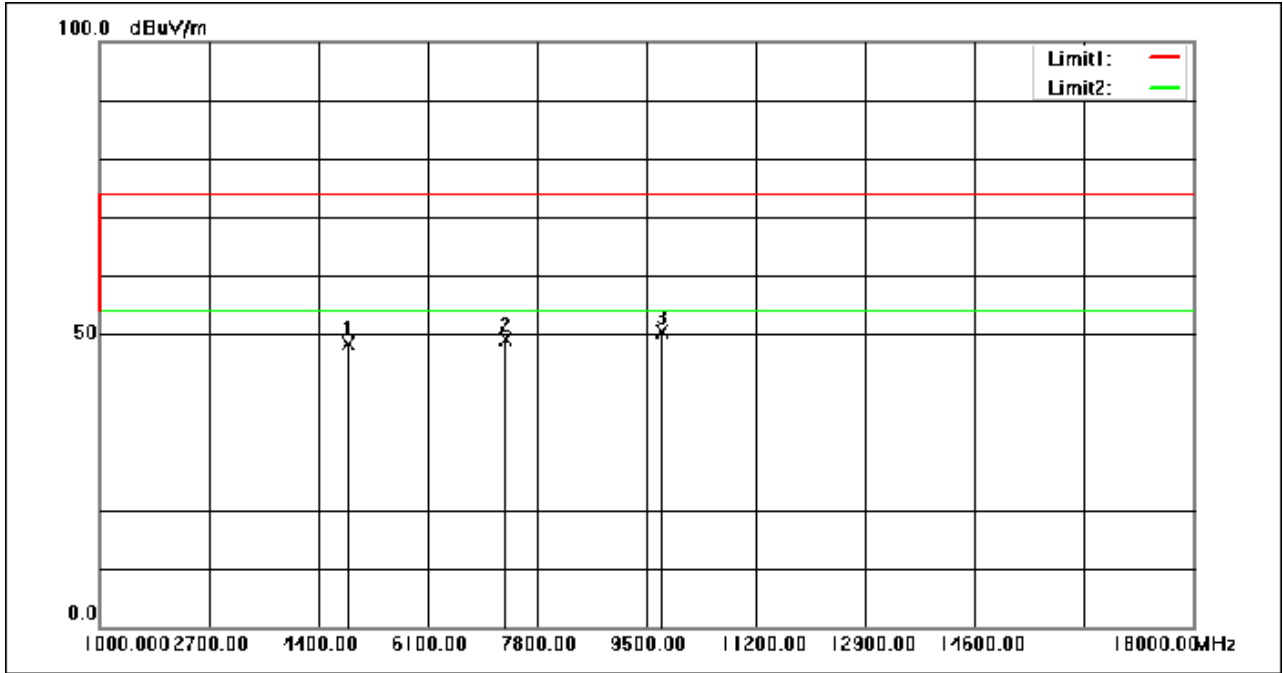
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	56.91	-8.61	48.30	74.00	-25.70	peak
2	7311.000	54.82	-5.78	49.04	74.00	-24.96	peak
3	9748.000	51.79	-1.43	50.36	74.00	-23.64	peak

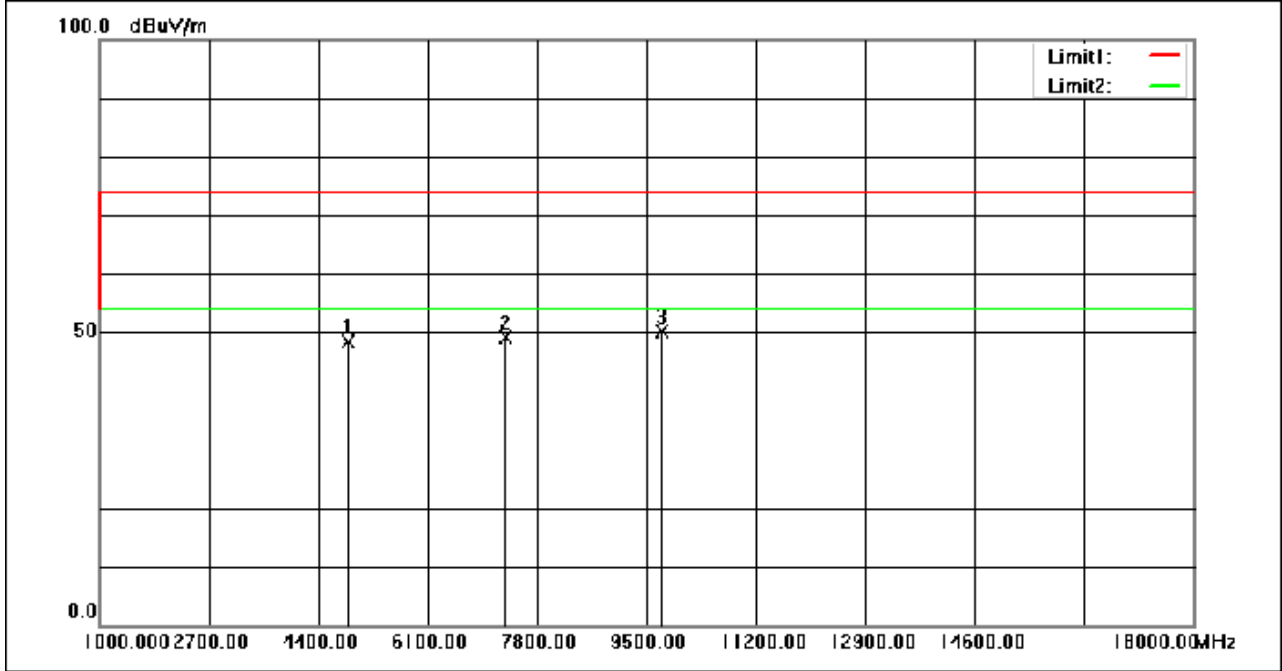


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



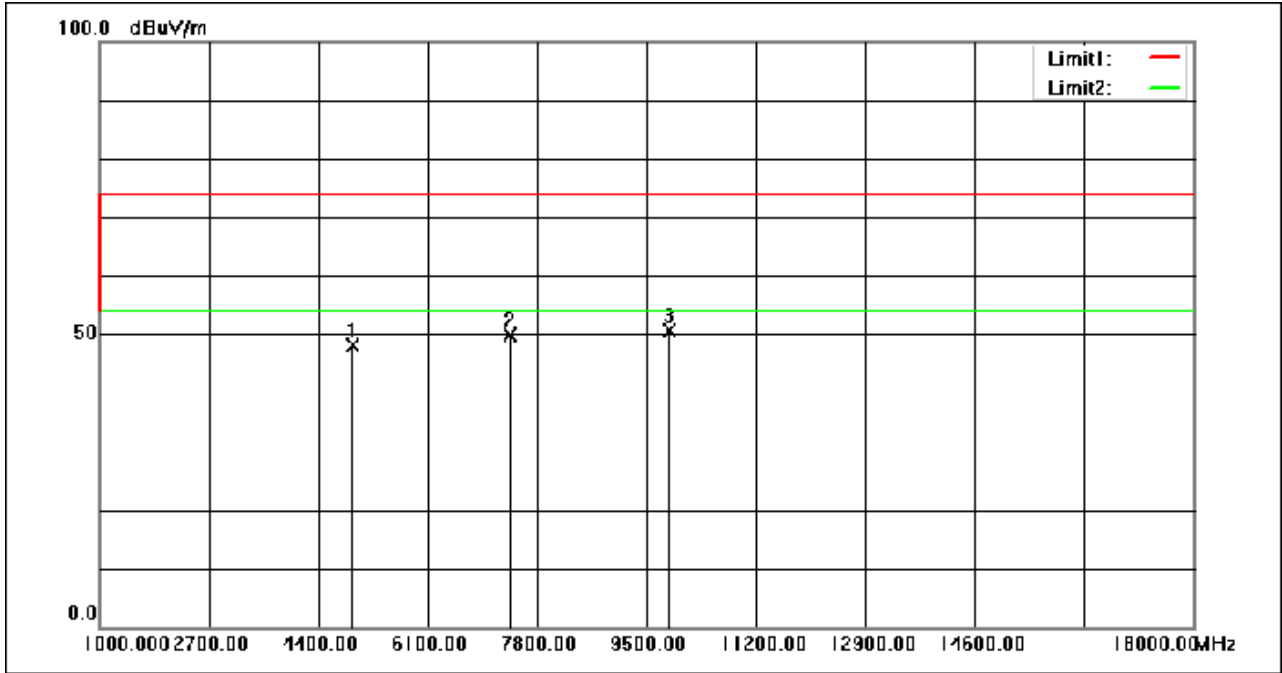
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	56.91	-8.61	48.30	74.00	-25.70	peak
2	7311.000	54.92	-5.78	49.14	74.00	-24.86	peak
3	9748.000	51.62	-1.43	50.19	74.00	-23.81	peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	56.59	-8.44	48.15	74.00	-25.85	peak
2	7386.000	55.61	-5.69	49.92	74.00	-24.08	peak
3	9848.000	51.96	-1.27	50.69	74.00	-23.31	peak

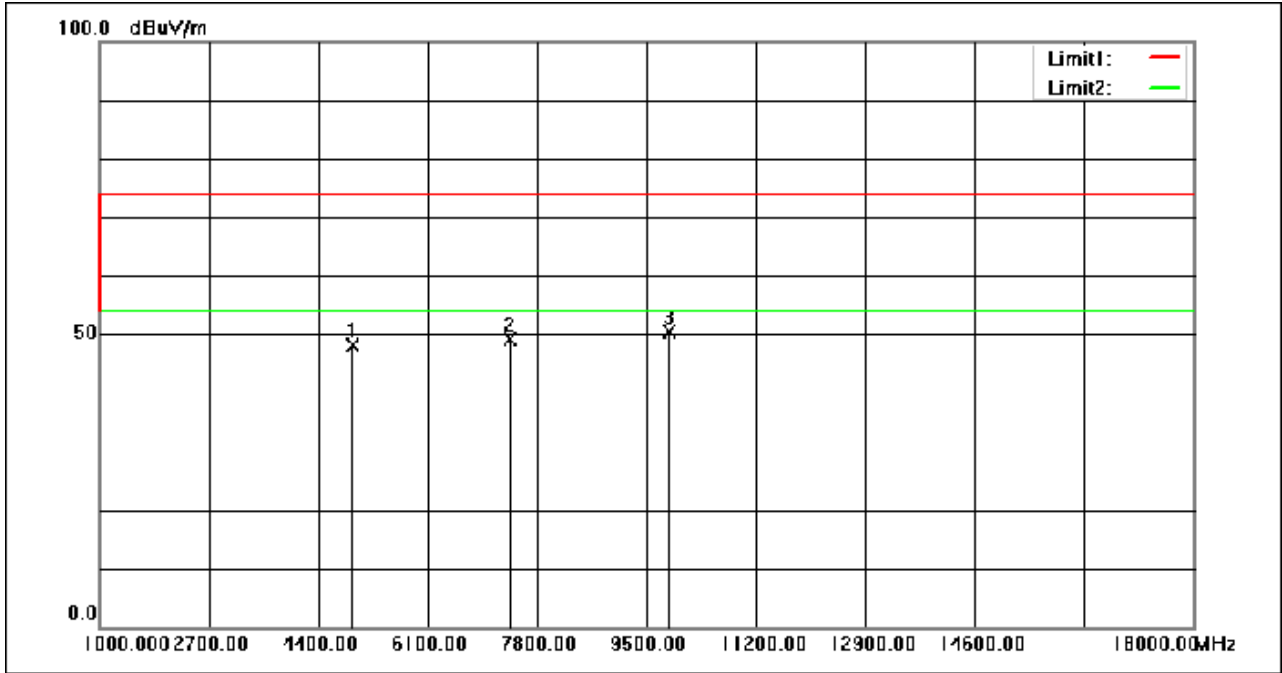


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	56.61	-8.44	48.17	74.00	-25.83	peak
2	7386.000	54.91	-5.69	49.22	74.00	-24.78	peak
3	9848.000	51.74	-1.27	50.47	74.00	-23.53	peak



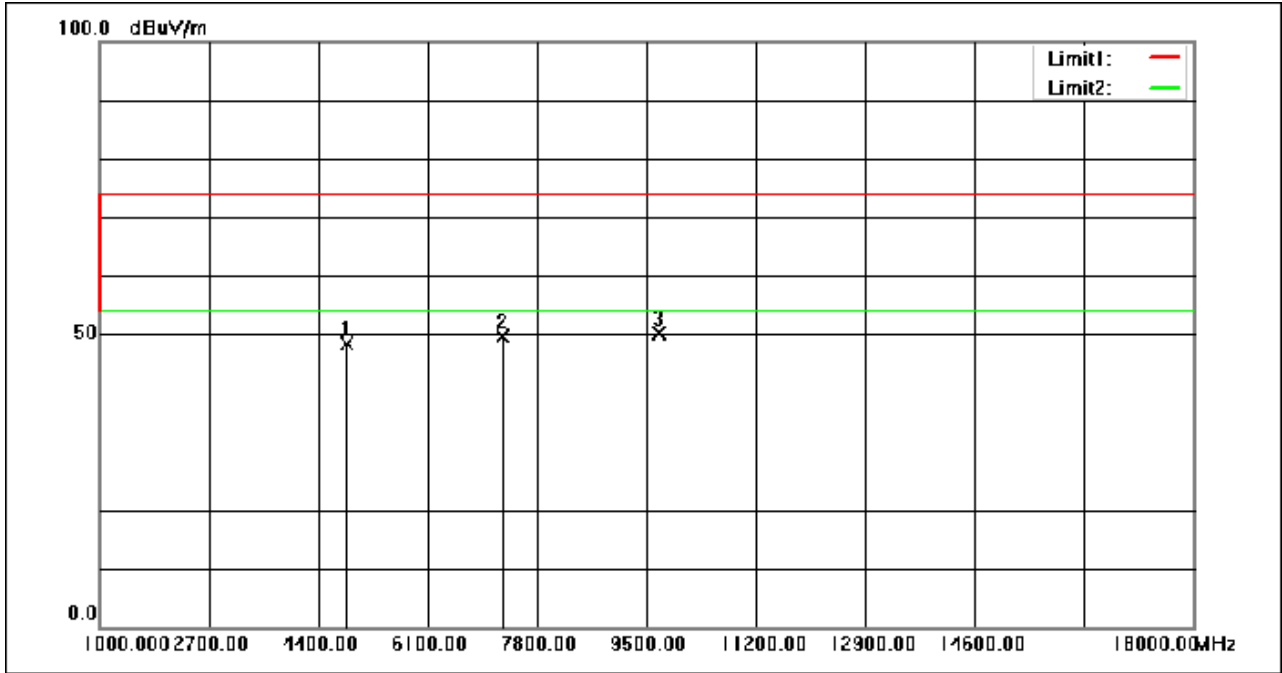
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	57.02	-8.71	48.31	74.00	-25.69	peak
2	7266.000	55.34	-5.83	49.51	74.00	-24.49	peak
3	9688.000	51.44	-1.36	50.08	74.00	-23.92	peak



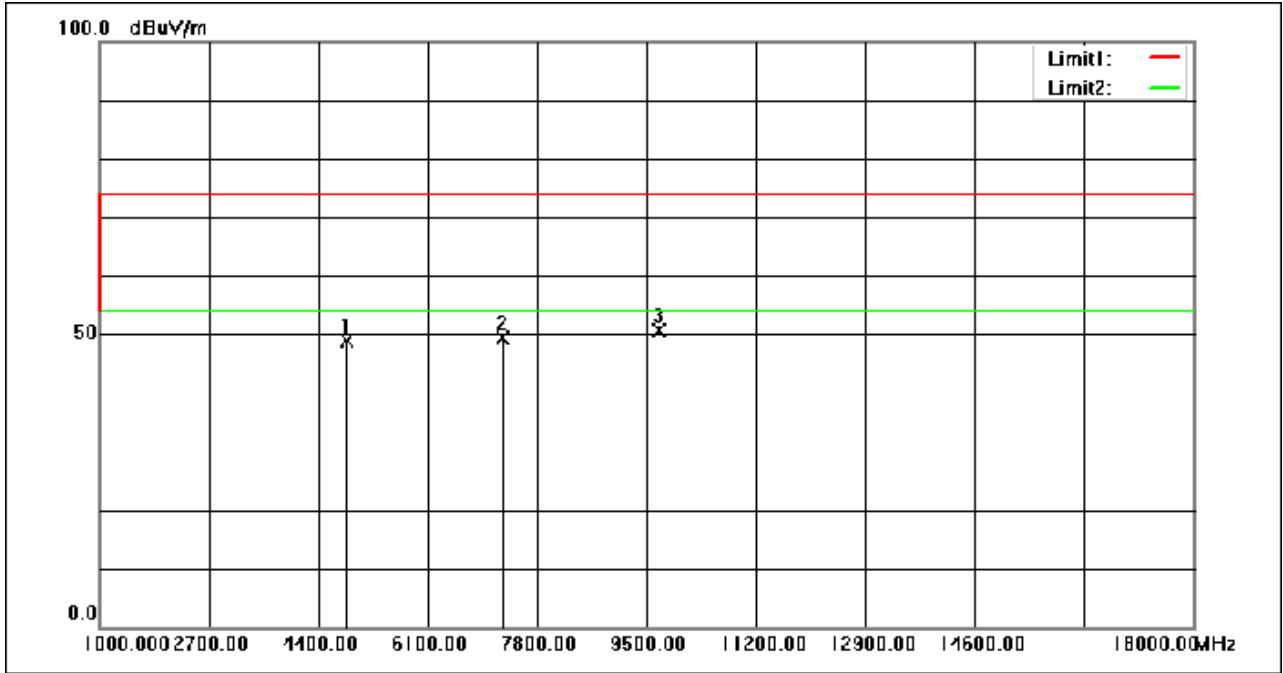
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	57.67	-8.71	48.96	74.00	-25.04	peak
2	7266.000	55.29	-5.83	49.46	74.00	-24.54	peak
3	9688.000	52.10	-1.36	50.74	74.00	-23.26	peak



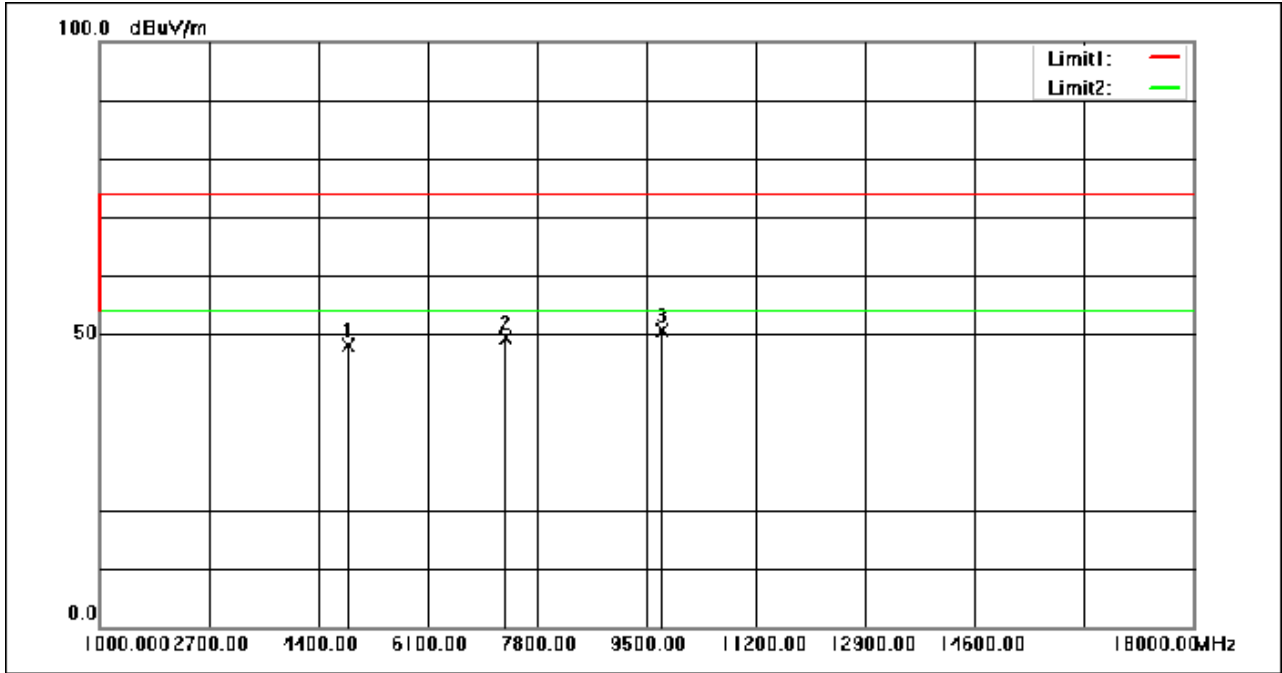
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	56.81	-8.61	48.20	74.00	-25.80	peak
2	7311.000	55.21	-5.78	49.43	74.00	-24.57	peak
3	9748.000	52.14	-1.43	50.71	74.00	-23.29	peak

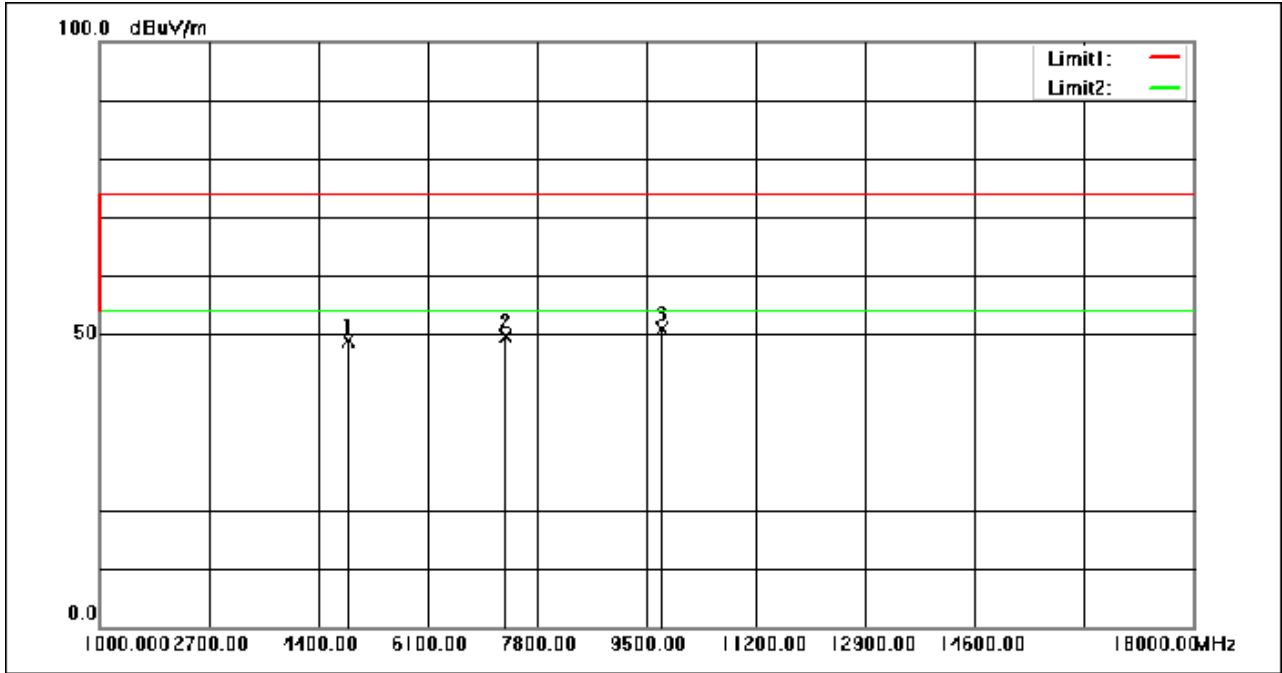


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.51	-8.61	48.90	74.00	-25.10	peak
2	7311.000	55.29	-5.78	49.51	74.00	-24.49	peak
3	9748.000	52.42	-1.43	50.99	74.00	-23.01	peak



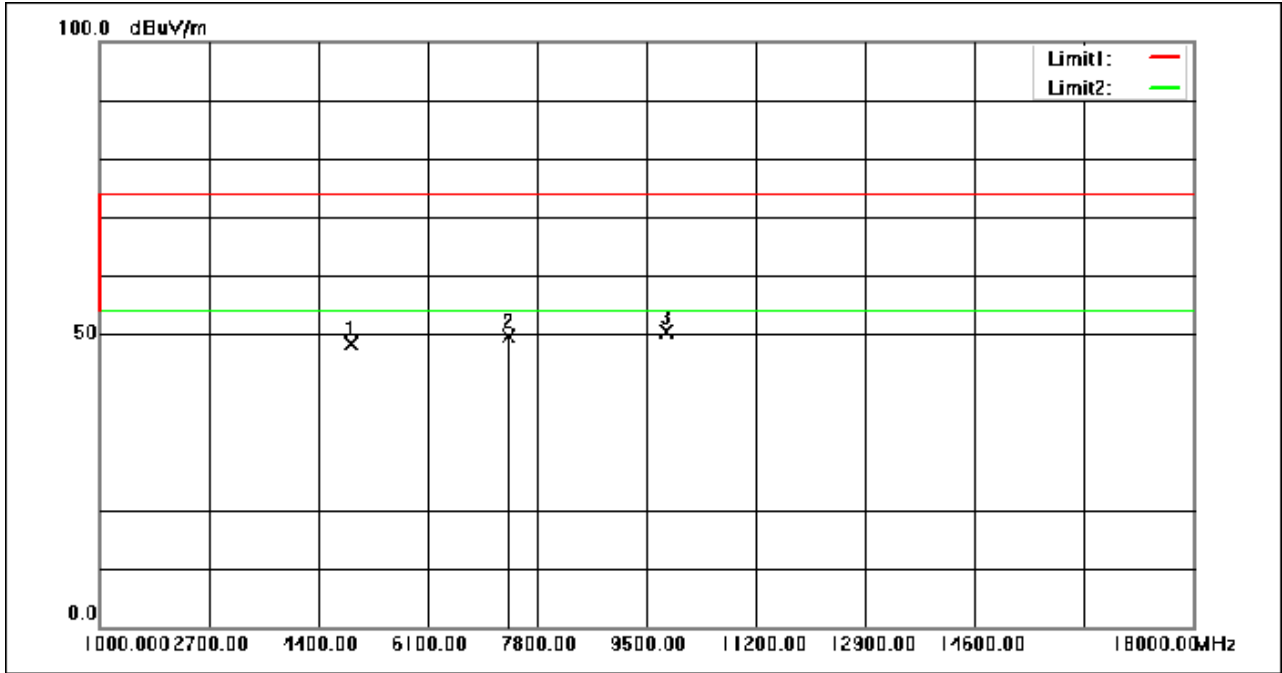
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



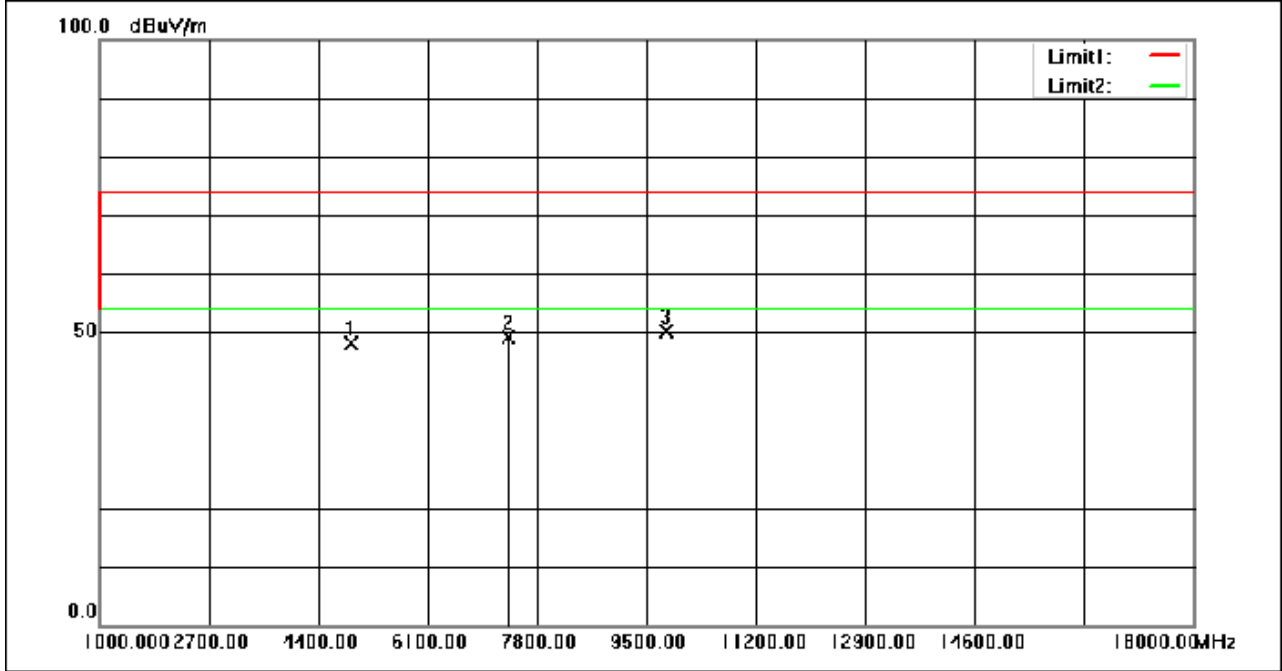
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	57.00	-8.51	48.49	74.00	-25.51	peak
2	7356.000	55.45	-5.73	49.72	74.00	-24.28	peak
3	9808.000	51.94	-1.47	50.47	74.00	-23.53	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	56.71	-8.51	48.20	74.00	-25.80	peak
2	7356.000	54.90	-5.73	49.17	74.00	-24.83	peak
3	9808.000	51.48	-1.47	50.01	74.00	-23.99	peak



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2206000984AT

8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for KSCR2206000984AT

- End of the Report -



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