



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240100008105

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TEST REPORT

Application No.: KSCR2401000081AT
FCC ID: 2AH25T1731
IC: 22621-T1731
Applicant: Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant: Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China
Manufacturer: Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer: Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China
Equipment Under Test (EUT):
EUT Name: POS System
Model No.: T1731
Trade Mark: SUNMI
Standard(s) : 47 CFR Part 15, Subpart C 15.247
RSS-247 Issue 3, August 2023
RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt: 2024-01-12
Date of Test: 2024-03-19 to 2024-04-08
Date of Issue: 2024-04-08

Test Result:

Pass*

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

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Revision Record			
Version	Description	Date	Remark
00	Original	2024-04-08	/

Authorized for issue by:			
Tested By		Damon Zhou	
		Damon_Zhou/Project Engineer	
Approved By		Terry Hou	
		Terry Hou /Reviewer	



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2 Test Summary

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

N/A: Not applicable

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(6)	RSS-Gen Section 8.8	ANSI C63.10 (2013) Section 6.2	Pass
99% Bandwidth	N/A	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass
26dB Emission bandwidth	47 CFR Part 15, Subpart E 15.407 (a)	RSS-247 Section 6.2.1(1)	KDB 789033 D02 II C 1	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	47 CFR Part 15, Subpart E 15.407 (e)	RSS-247 Section 6.2.4	KDB 789033 D02 II C 2	Pass
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4	KDB 789033 D02 II E	Pass
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4	KDB 789033 D02 II F	Pass
Radiated Emissions	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass
Frequency Stability	47 CFR Part 15, Subpart E 15.407 (g)	RSS-Gen Section 8.11	ANSI C63.10 (2013) Section 6.8& RSS-Gen Section 6.11	Pass
Channel Move Time	47 CFR Part 15, Subpart E 15.407	RSS-247	KDB 905462 D02 Section 7.8.3	Pass
Channel Closing Transmission Time	47 CFR Part 15, Subpart E 15.407	RSS-247	KDB 905462 D02 Section 7.8.3	Pass
Non-occupancy period	47 CFR Part 15, Subpart E 15.407	RSS-247	KDB 905462 D02 Section 7.8.3	Pass

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 24V,2.5A by Adapter Adapter model: CYSE65-240250 INPUT: AC 100-240V,50/60Hz,1.7A OUTPUT: DC 24V,2.5A,60W
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels) U-NII-2A: 5260-5320MHz (4 Channels) U-NII-2C: 5500-5700MHz (11 Channels) U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels) U-NII-2A: 5270-5310MHz (2 Channels) U-NII-2C: 5510-5670MHz (5 Channels) U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel) U-NII-2A: 5290MHz (1 Channels) U-NII-2C: 5530-5610MHz (2 Channels) U-NII-3: 5775MHz (1 Channel)
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n/ac20: 20MHz; 802.11n/ac40: 40MHz; 802.11ac80: 80MHz
DFS Function:	Slave without Radar detection
Antenna Type:	Internal Antenna
Antenna Gain:	U-NII-1:1.98dBi, U-NII-2A:2.07dBi, U-NII-2C:2.08dBi, U-NII-3:2.12dBi (Provided by the manufacturer)
Serial Number:	DE17D3CL10022
Firmware version:	D3mini_IO_V2.0

4.2 Power level setting using in test:

Channel	802.11a	802.11n(HT20)
	Ant 1	Ant 1
36	13.5	11.5
40	13.5	11.5
48	13.5	11.5
52	13.5	11.5
60	13.5	11.5
64	13	11.5
100	13	11.5
116	13.5	11.5
140	13	11
149	12.5	11

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157	12	11
165	12	11
Channel	802.11n(HT40)	
	Ant 1	
38	11	
46	10.5	
54	10.5	
62	10.5	
102	11	
110	11	
134	10	
151	10	
159	10	
Channel	802.11ac(VHT80)	
	Ant 1	
42	9	
58	9	
106	9.5	
122	8.5	
155	8.5	

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	Lenovo	/	/

4.4 Measurement Uncertainty

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

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

4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

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).
3. Sample source: sent by customer.

4.6 Test Facility

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

- **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.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals						
1	EMI Test Receive	R&S	ESCI	KS301101	01/15/2024	01/14/2025
2	LISN	R&S	ENV216	KS301197	01/15/2024	01/14/2025
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/15/2024	01/14/2025
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	01/15/2024	01/14/2025
5	CE test Cable	Thermax	/	CZ301102	01/15/2024	01/14/2025
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/24/2023	08/23/2024
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/24/2023	08/23/2024
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/15/2024	01/14/2025
4	Signal Generator	R&S	SMBV100B	KSEM032	03/19/2024	03/18/2025
5	Signal Generator	R&S	SMW200A	KSEM020-1	08/24/2023	08/23/2024
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/24/2023	08/23/2024
7	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/24/2023	08/23/2024
8	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	03/19/2024	03/18/2025
9	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/24/2023	08/23/2024
10	Switcher	TST	FY562	KUS2001M001-4	01/15/2024	01/14/2025
11	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
13	Conducted Test Cable	Thermax	RF01-RF04	CZ301111- CZ301120	01/15/2024	01/14/2025
14	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	08/24/2023	08/23/2024
15	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	03/19/2024	03/18/2025
16	Software	BST	TST-PASS	/	NCR	NCR
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/24/2023	08/23/2024
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	03/19/2024	03/18/2025
3	Signal Generator	Agilent	E8257C	KS301066	08/24/2023	08/23/2024
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	03/18/2023	03/17/2025
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2023	06/28/2025
6	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E006	03/19/2024	03/18/2025
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	08/24/2023	08/23/2024
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	04/07/2023	04/06/2025
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	01/07/2024	01/06/2026
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/15/2024	01/14/2025
11	Amplifier(18~40GHz)	PANSHAN TECHNOLOGY	LNA180400G40	KSEM038	08/24/2023	08/23/2024
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	08/24/2023	08/23/2024
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	03/19/2024	03/18/2025
14	Software	Faratronic	EZ_EMG-v 3A1	/	NCR	NCR
15	Software	ESE	E3_V 6.111221a	/	NCR	NCR

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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

EUT Antenna:

The antenna is Internal antenna and no consideration of replacement. The best case gain of the U-NII-1:1.98dBi, U-NII-2A:2.07dBi, U-NII-2C:2.08dBi, U-NII-3: 2.12dBi.

Antenna location: Refer to internal photo.



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Conclusion

Standard Requirement:

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

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

EUT Details:

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

7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)

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

Limit:

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

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C

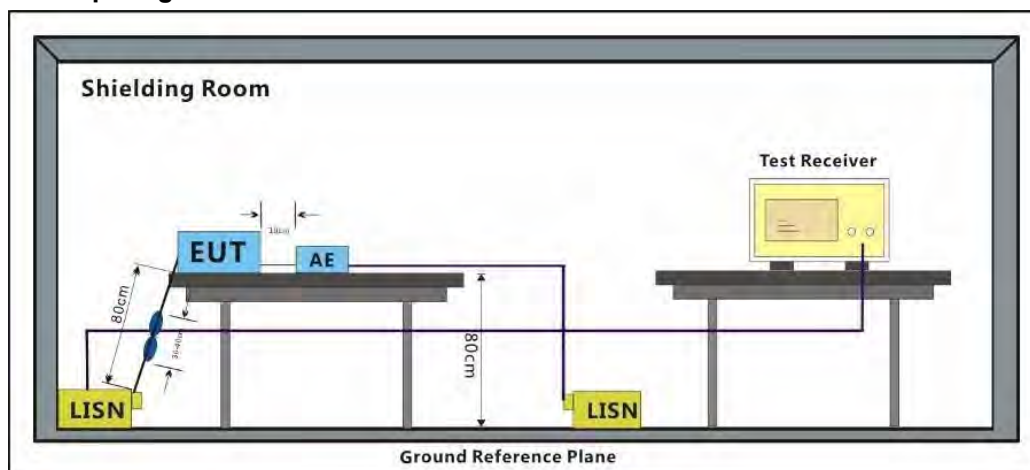
Humidity: 47.8 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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

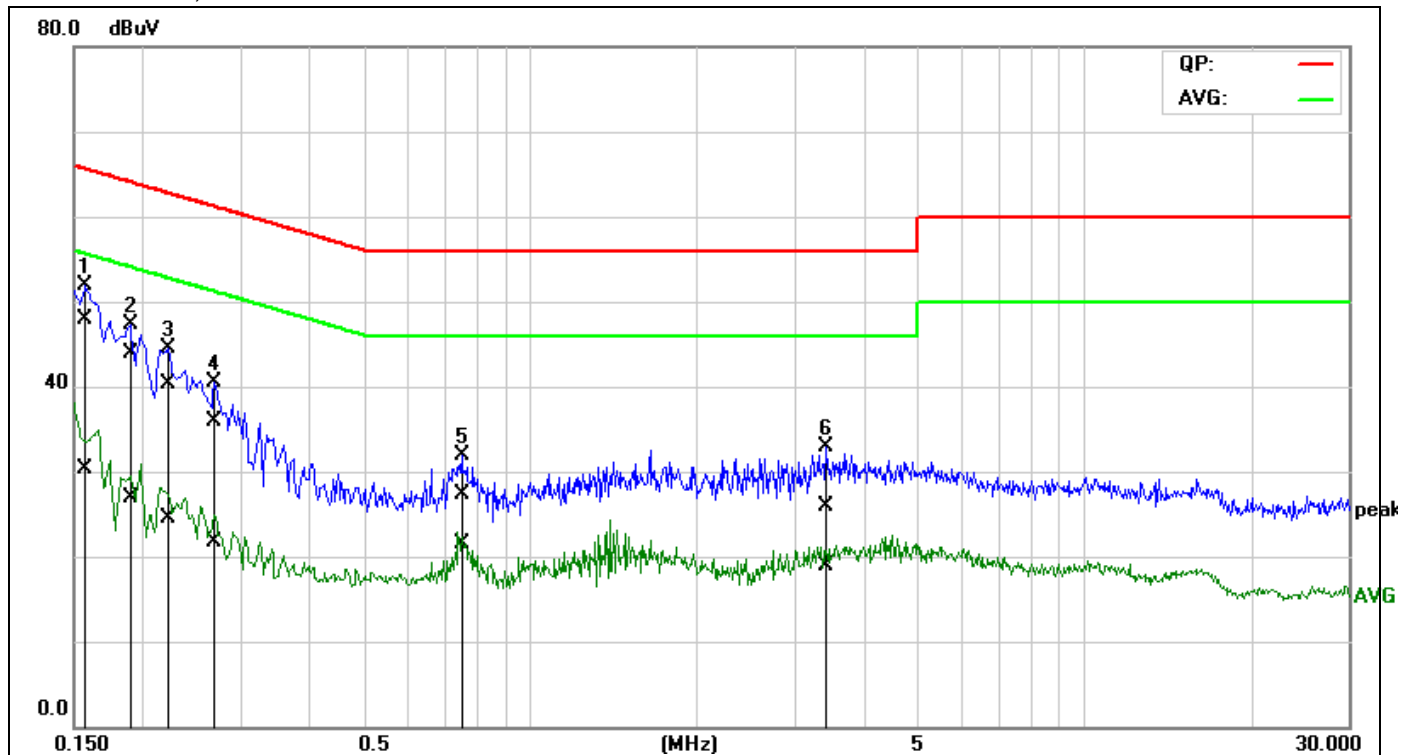
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Test Mode: 05; Line: Live line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1574	27.65	10.08	20.17	47.82	30.25	65.60	55.60	-17.78	-25.35	Pass
2	0.1888	23.81	6.88	20.06	43.87	26.94	64.09	54.09	-20.22	-27.15	Pass
3	0.2216	20.33	4.46	20.02	40.35	24.48	62.76	52.76	-22.41	-28.28	Pass
4	0.2694	15.95	1.72	20.02	35.97	21.74	61.14	51.14	-25.17	-29.40	Pass
5	0.7527	7.44	1.55	19.90	27.34	21.45	56.00	46.00	-28.66	-24.55	Pass
6	3.3831	6.00	-1.03	19.98	25.98	18.95	56.00	46.00	-30.02	-27.05	Pass

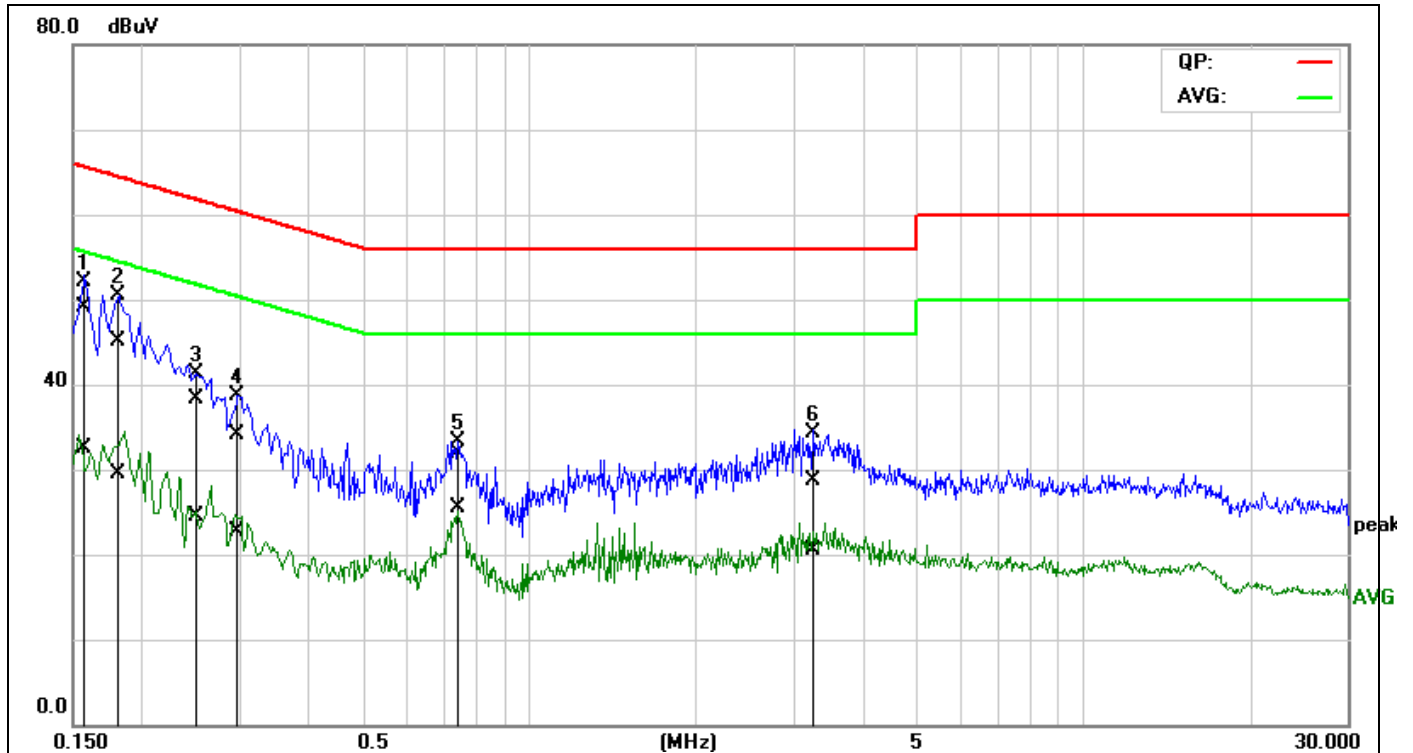
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Test Mode: 05; Line: Neutral Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1550	28.93	12.16	20.25	49.18	32.41	65.73	55.73	-16.55	-23.32	Pass
2	0.1823	24.89	9.29	20.18	45.07	29.47	64.38	54.38	-19.31	-24.91	Pass
3	0.2489	18.22	4.38	20.15	38.37	24.53	61.79	51.79	-23.42	-27.26	Pass
4	0.2960	13.96	2.57	20.15	34.11	22.72	60.35	50.35	-26.24	-27.63	Pass
5	0.7427	12.00	5.67	19.92	31.92	25.59	56.00	46.00	-24.08	-20.41	Pass
6	3.2000	8.81	0.54	19.99	28.80	20.53	56.00	46.00	-27.20	-25.47	Pass

7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1
Test Method: KDB 789033 II B 1

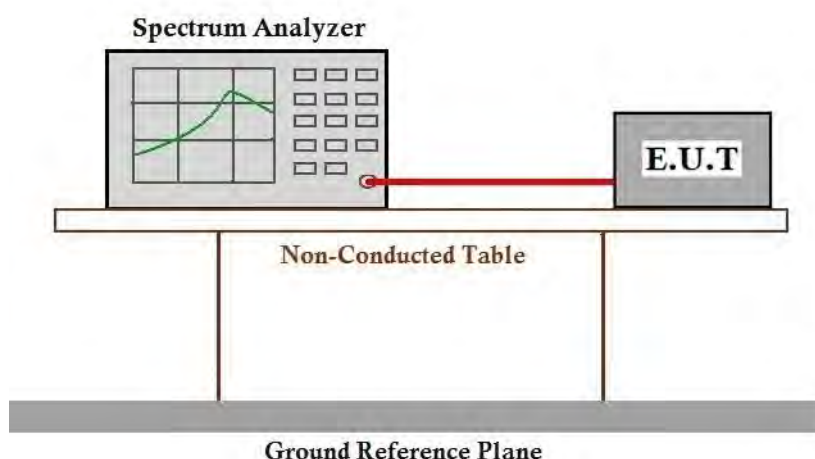
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 24.9 °C Humidity: 52.2 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram





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7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.3 99% Bandwidth

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

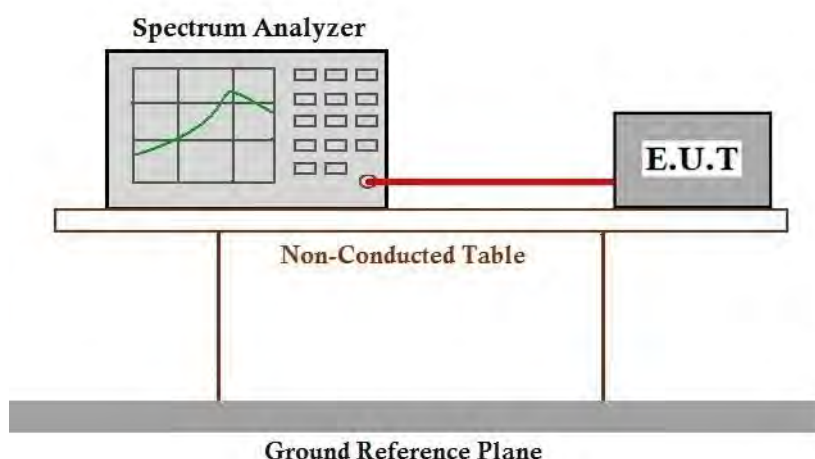
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 24.9 °C Humidity: 52.2 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram





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7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.4 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

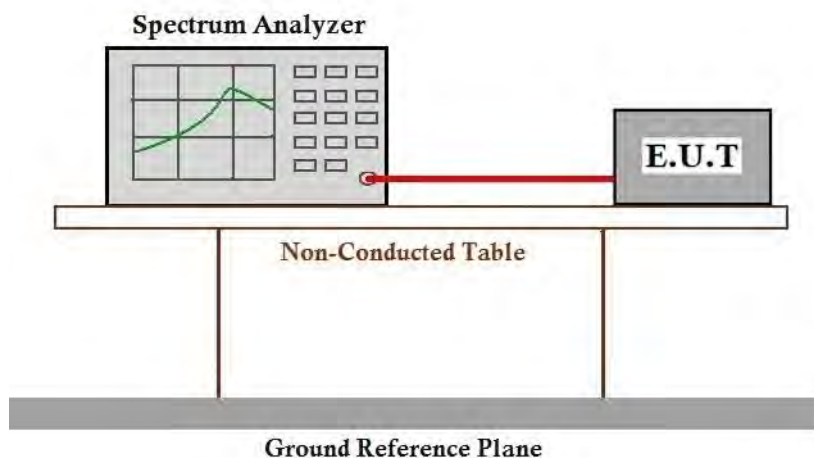
Humidity: 52.2 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram





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7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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

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

Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥ 500 kHz

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

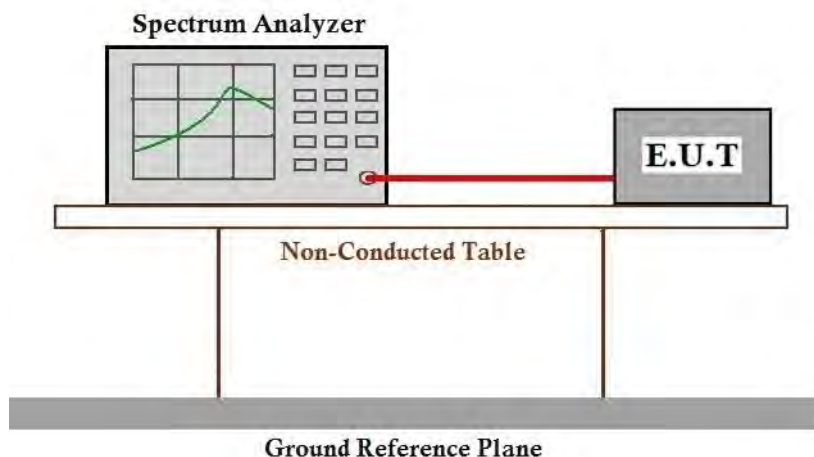
Humidity: 52.2 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.6 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

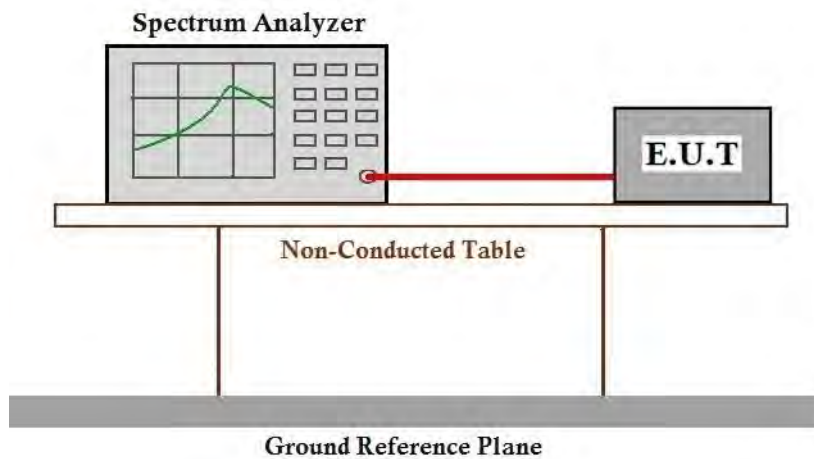
Humidity: 52.2 % RH

Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

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7.7 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

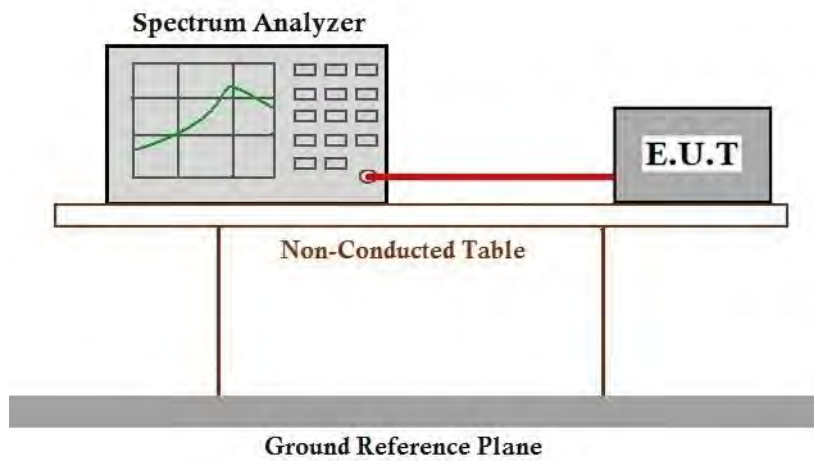
Humidity: 52.2 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Radiated Emissions (Below 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3M

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

7.8.1 E.U.T. Operation

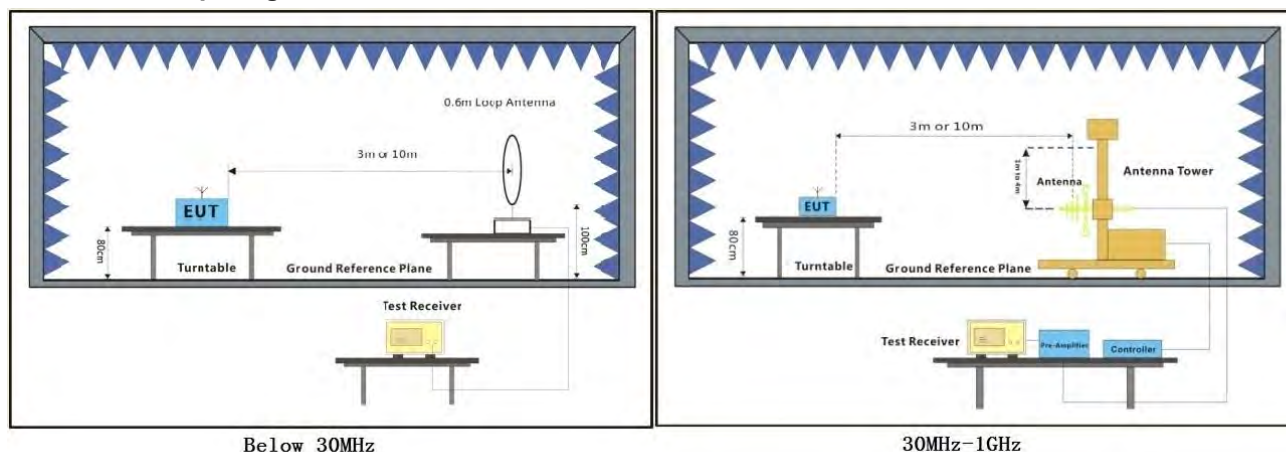
Operating Environment:

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

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 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 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. $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamplifier Factor}$
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 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.
4. 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.

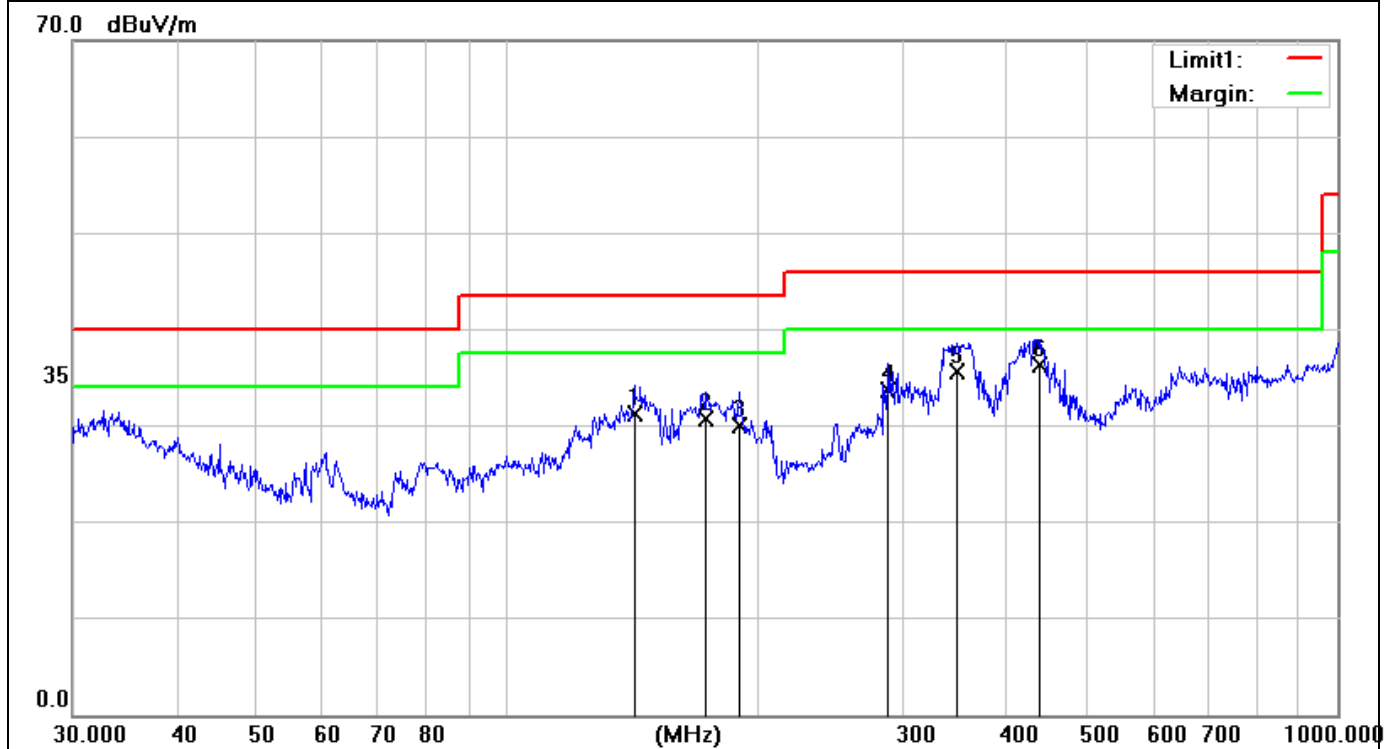
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Test Mode: 05; Polarity: Horizontal



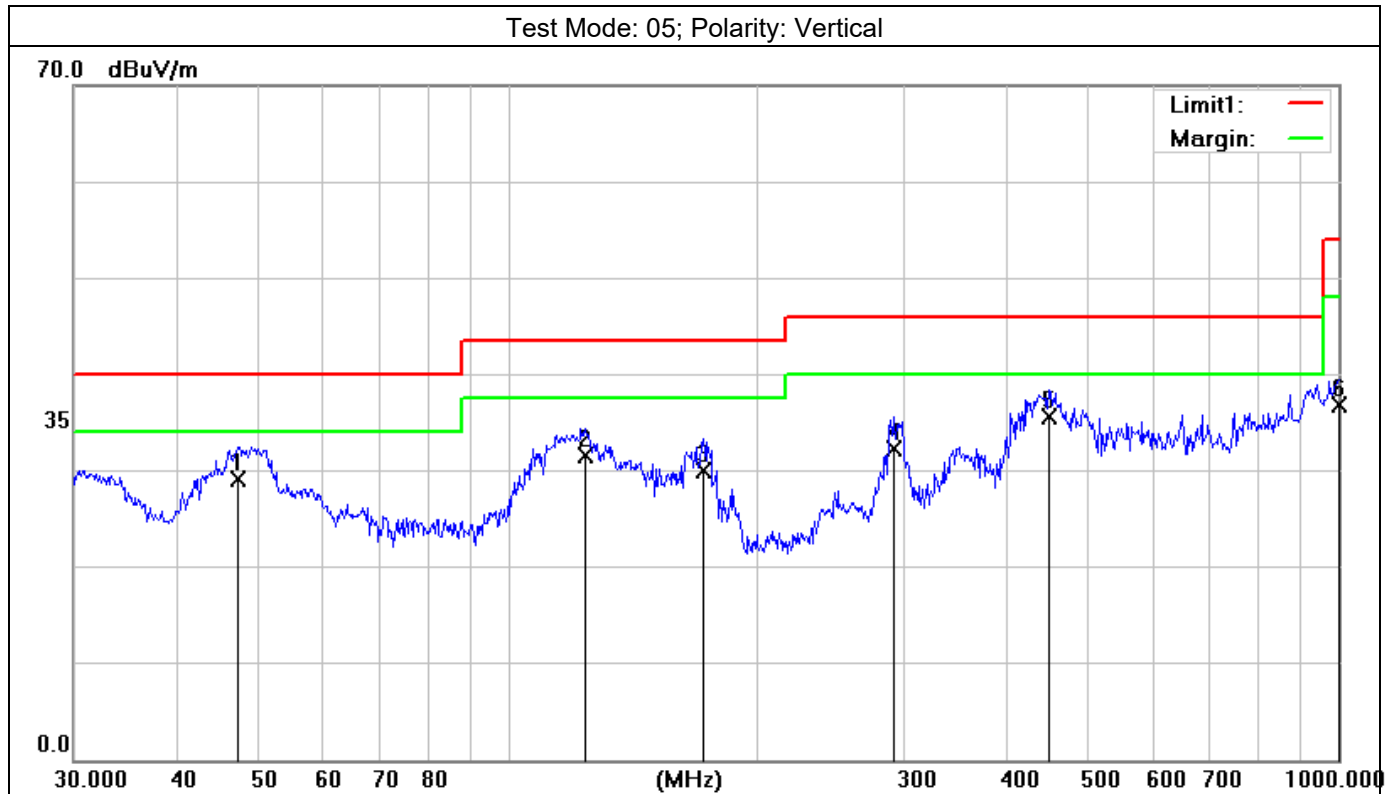
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	142.3242	12.91	18.34	31.25	43.50	-12.25	100	125	QP
2	173.8135	13.91	16.83	30.74	43.50	-12.76	200	231	QP
3	190.4050	13.67	16.38	30.05	43.50	-13.45	200	228	QP
4	287.9904	13.21	20.40	33.61	46.00	-12.39	100	68	QP
5	348.0274	13.96	21.70	35.66	46.00	-10.34	100	158	QP
6	438.6553	12.27	23.98	36.25	46.00	-9.75	200	127	QP

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No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	47.3253	10.32	18.82	29.14	40.00	-10.86	200	163	QP
2	123.6984	12.05	19.47	31.52	43.50	-11.98	200	210	QP
3	171.9944	13.14	16.91	30.05	43.50	-13.45	100	82	QP
4	291.0360	11.80	20.45	32.25	46.00	-13.75	100	158	QP
5	447.9821	11.43	24.15	35.58	46.00	-10.42	100	152	QP
6	1000.0000	34.31	2.55	36.86	54.00	-17.14	100	358	QP

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7.9 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3M

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (4) For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

7.9.1 E.U.T. Operation

Operating Environment:

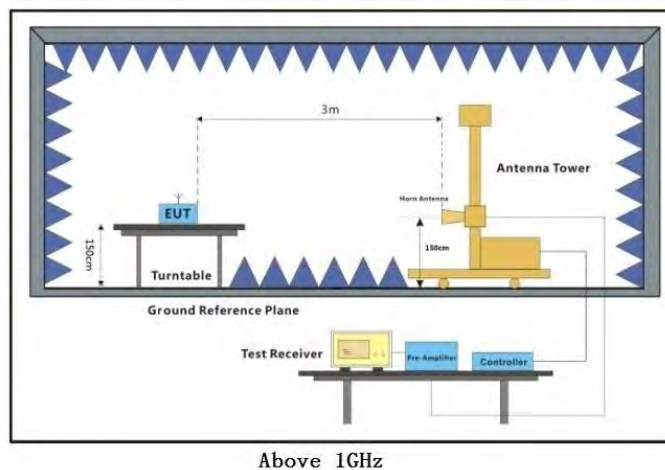
Temperature: °C Humidity: % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all

		modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 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. $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamplifier Factor}$
2. Scan from 18GHz to 40GHz, 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. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.

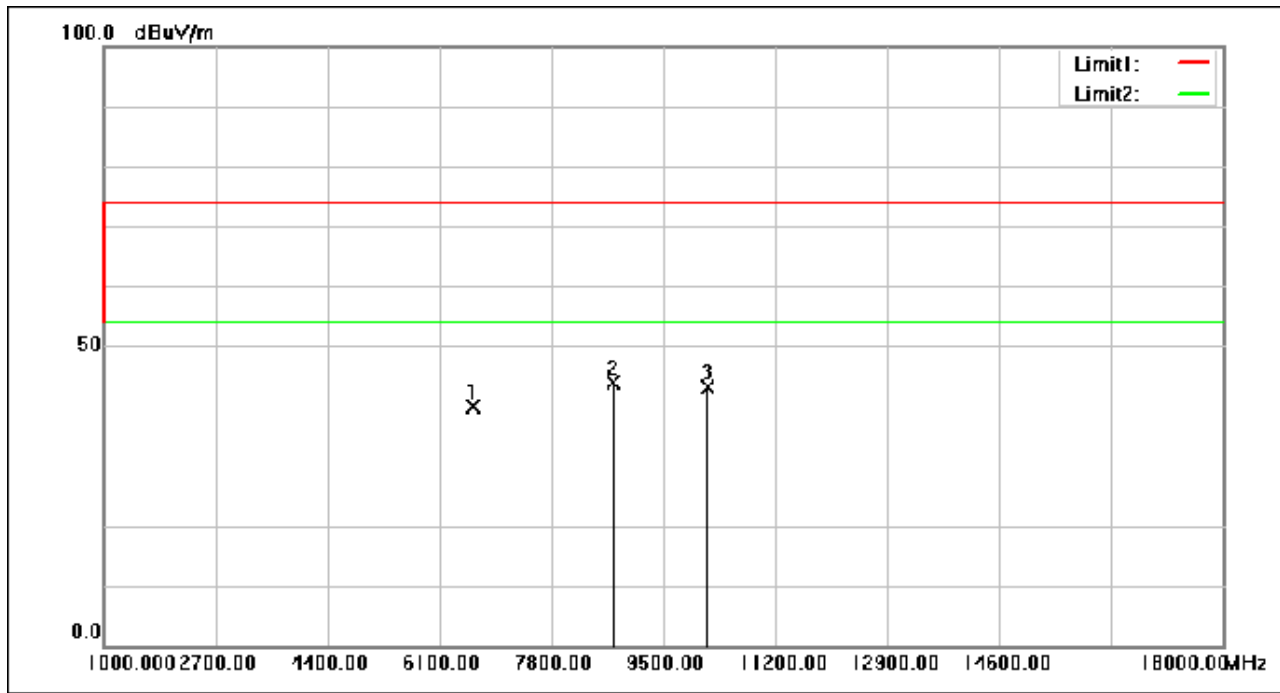
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6624.280	53.79	-13.90	39.89	74.00	-34.11	peak
2	8739.080	54.45	-10.50	43.95	74.00	-30.05	peak
3	10177.280	51.72	-8.64	43.08	74.00	-30.92	peak

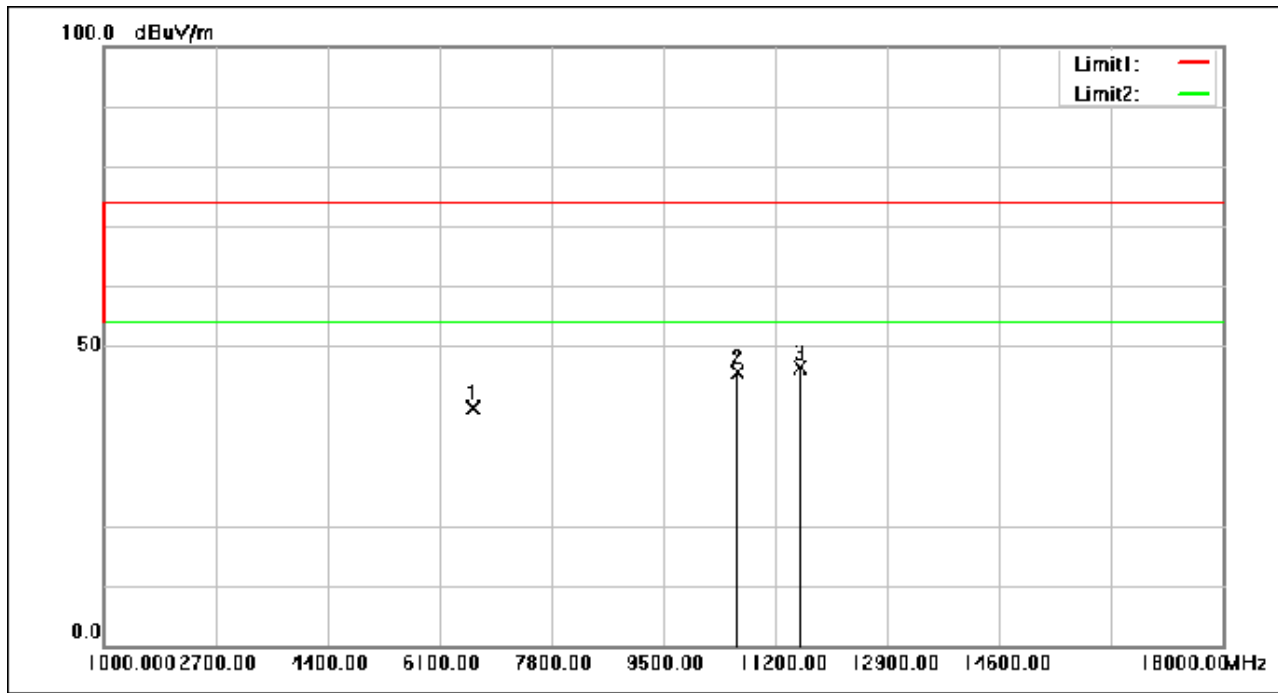
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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6614.080	53.58	-13.93	39.65	74.00	-34.35	peak
2	10624.040	53.50	-7.87	45.63	74.00	-28.37	peak
3	11577.400	53.64	-7.28	46.36	74.00	-27.64	peak

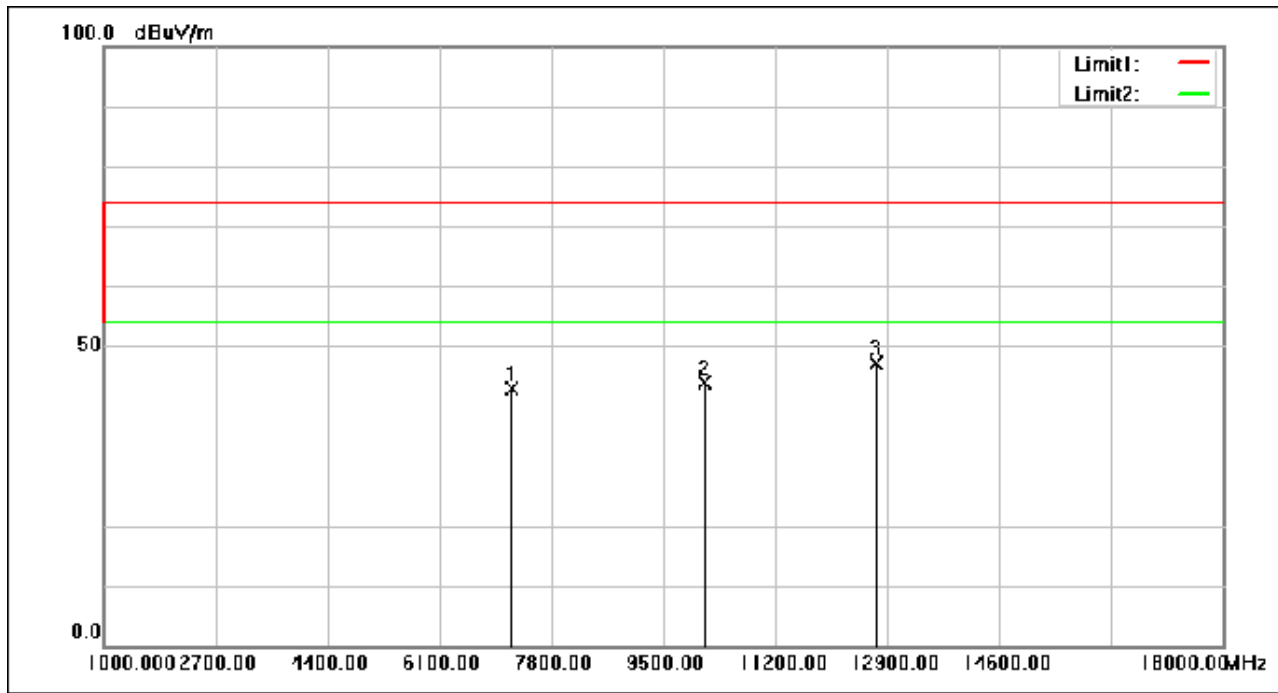
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7214.520	54.53	-11.66	42.87	74.00	-31.13	peak
2	10129.000	52.51	-8.72	43.79	74.00	-30.21	peak
3	12733.400	54.58	-7.50	47.08	74.00	-26.92	peak

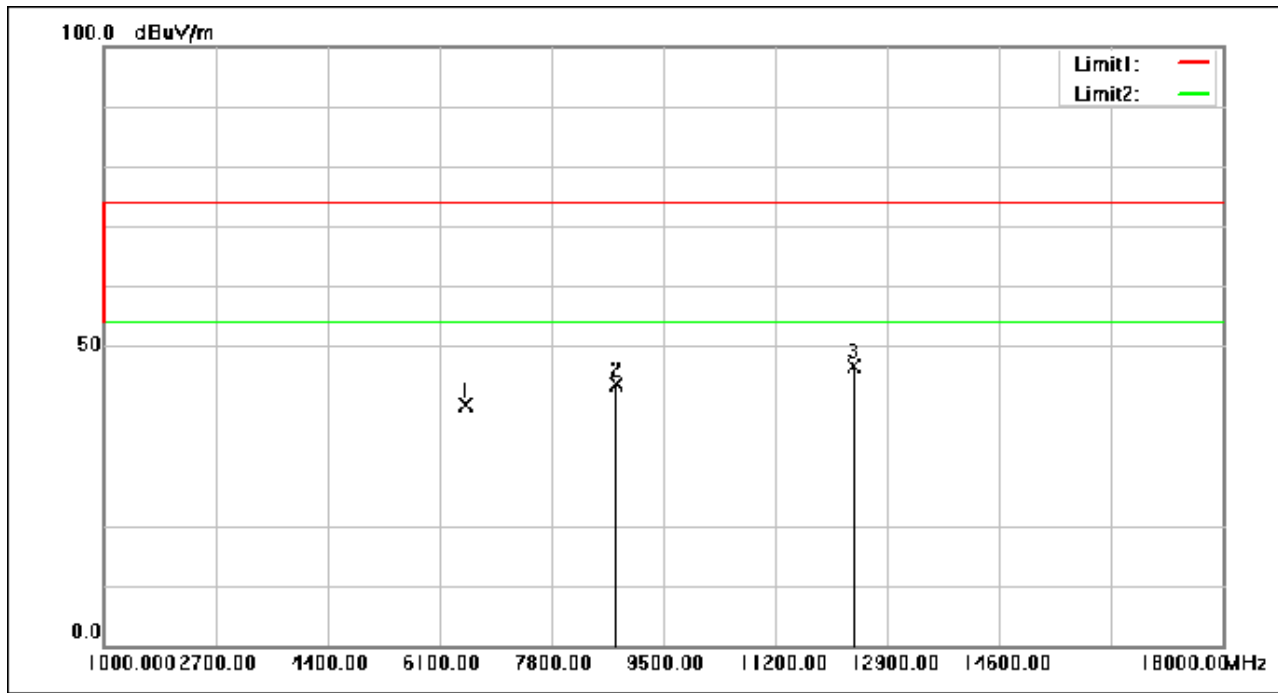
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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6503.240	54.41	-14.28	40.13	74.00	-33.87	peak
2	8794.840	53.99	-10.38	43.61	74.00	-30.39	peak
3	12391.360	54.23	-7.56	46.67	74.00	-27.33	peak

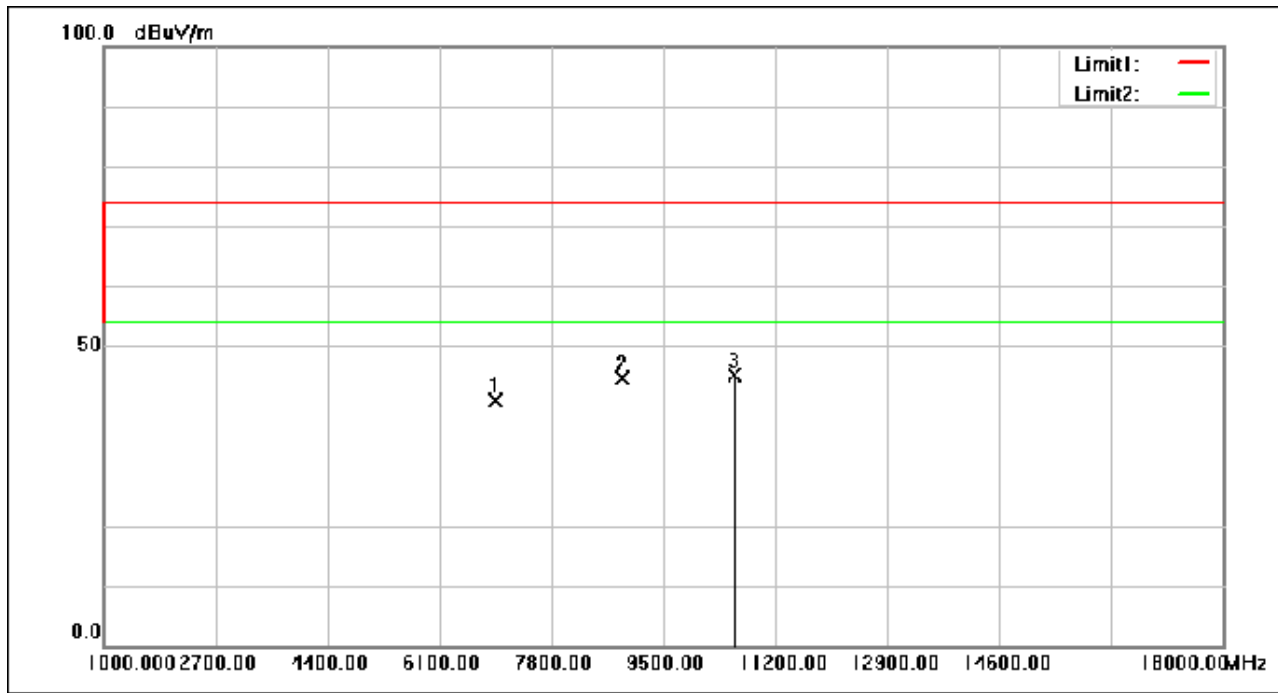
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6956.120	53.51	-12.69	40.82	74.00	-33.18	peak
2	8881.880	54.92	-10.21	44.71	74.00	-29.29	peak
3	10572.360	53.17	-7.97	45.20	74.00	-28.80	peak

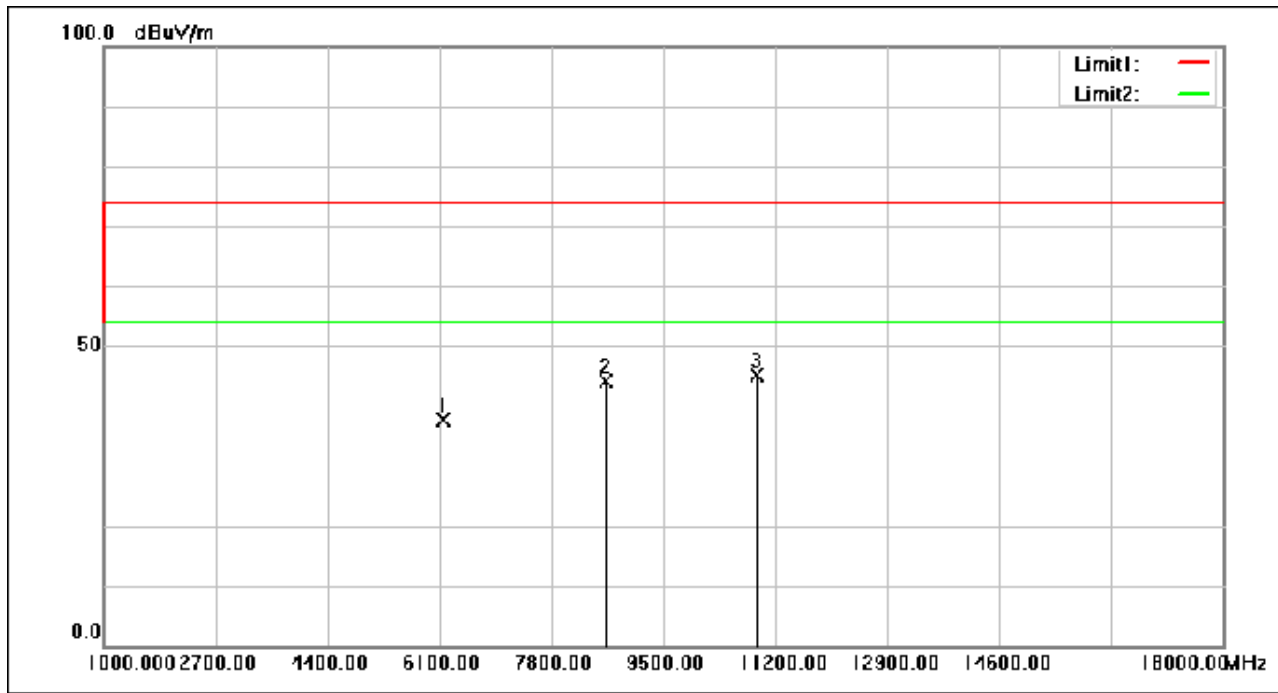
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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6162.560	52.92	-15.35	37.57	74.00	-36.43	peak
2	8641.160	54.95	-10.70	44.25	74.00	-29.75	peak
3	10913.720	52.62	-7.48	45.14	74.00	-28.86	peak

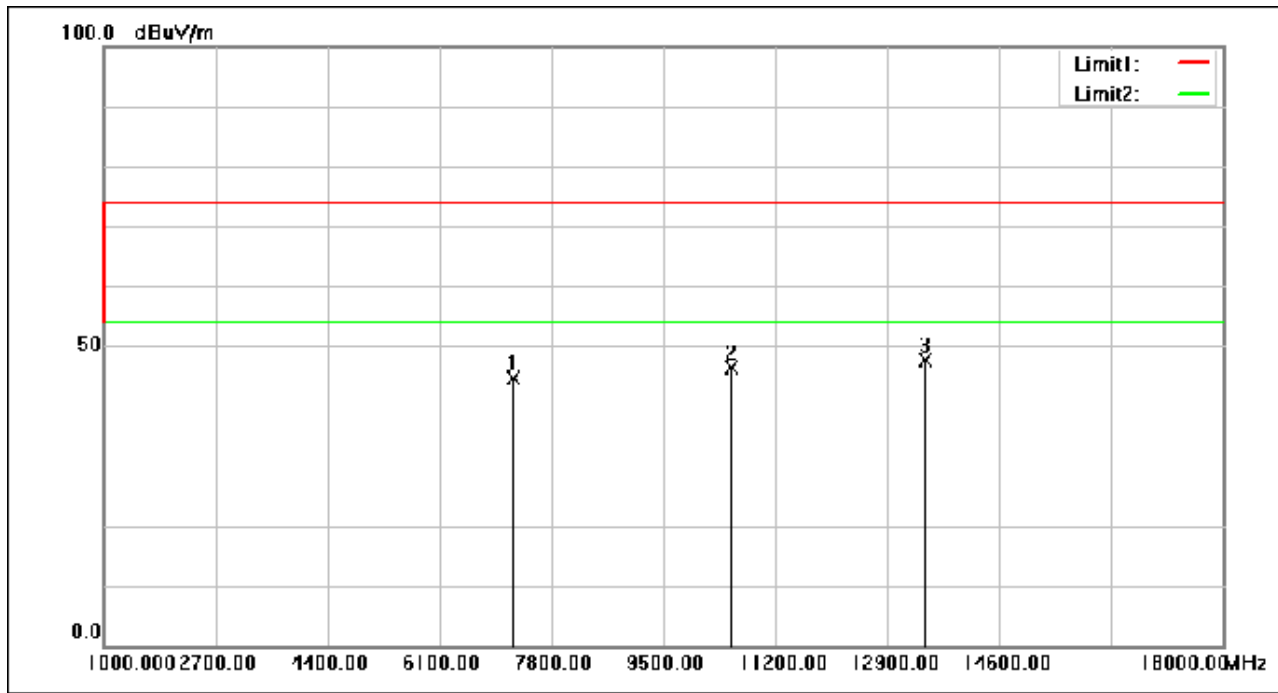
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7226.080	56.11	-11.60	44.51	74.00	-29.49	peak
2	10551.960	54.50	-8.00	46.50	74.00	-27.50	peak
3	13483.440	55.29	-7.64	47.65	74.00	-26.35	peak

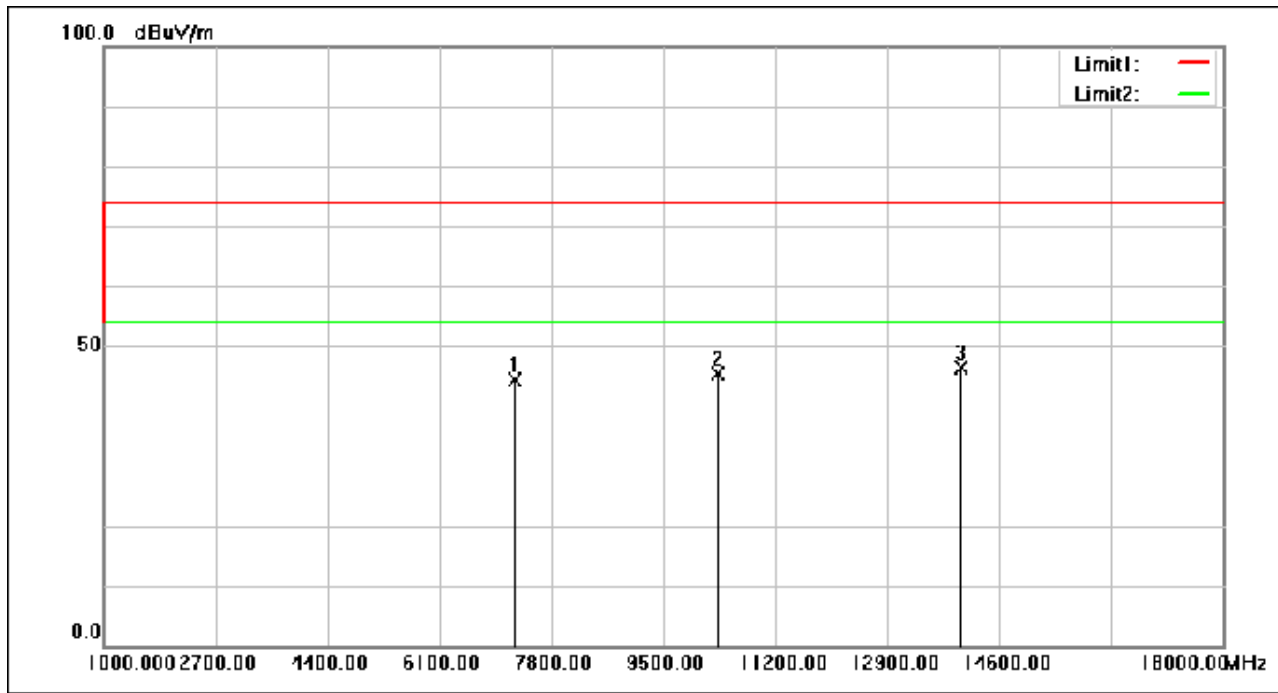
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7251.240	55.93	-11.50	44.43	74.00	-29.57	peak
2	10316.680	53.90	-8.41	45.49	74.00	-28.51	peak
3	14031.520	54.48	-8.13	46.35	74.00	-27.65	peak

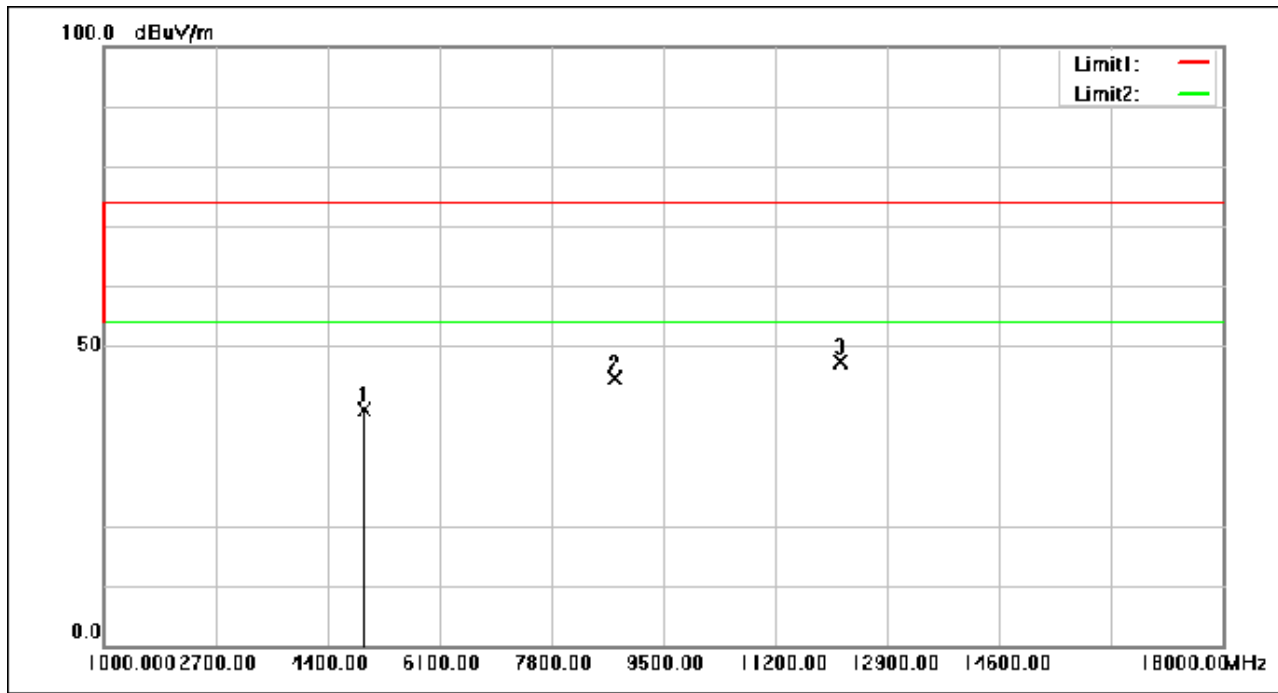
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.320	56.97	-17.64	39.33	74.00	-34.67	peak
2	8781.920	55.06	-10.41	44.65	74.00	-29.35	peak
3	12192.800	54.99	-7.59	47.40	74.00	-26.60	peak

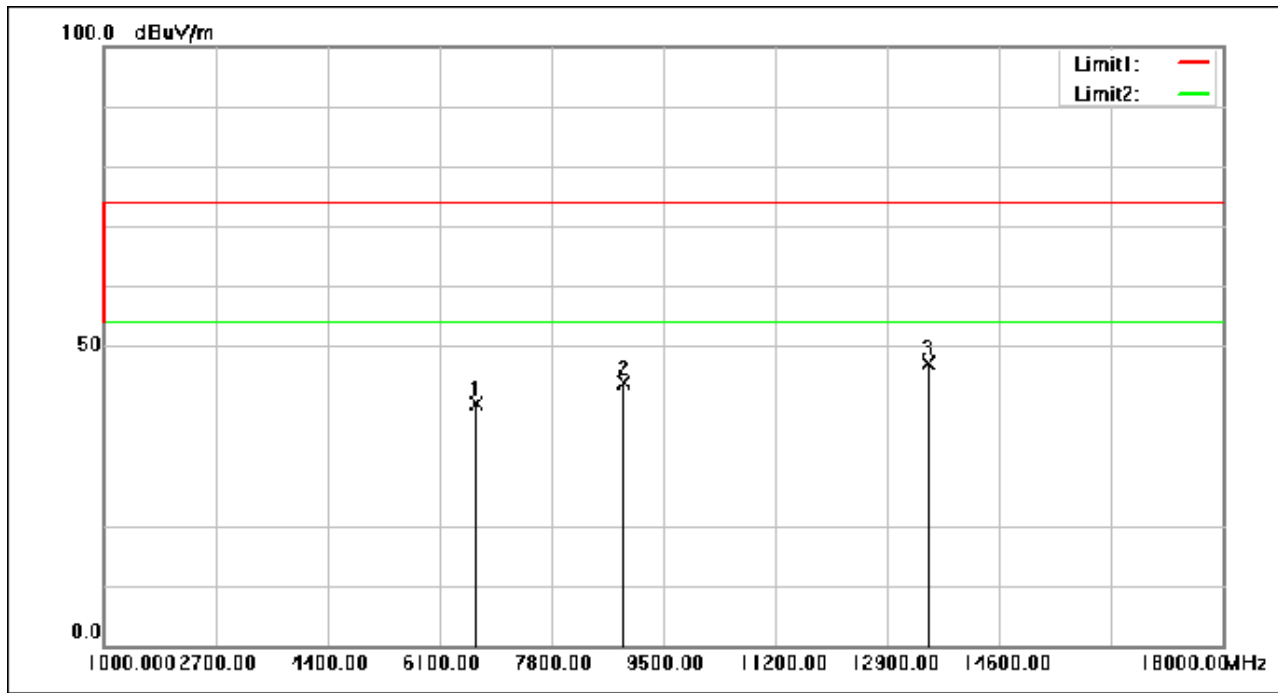
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 05; 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	6656.240	54.08	-13.80	40.28	74.00	-33.72	peak
2	8910.440	54.14	-10.15	43.99	74.00	-30.01	peak
3	13518.800	54.78	-7.66	47.12	74.00	-26.88	peak

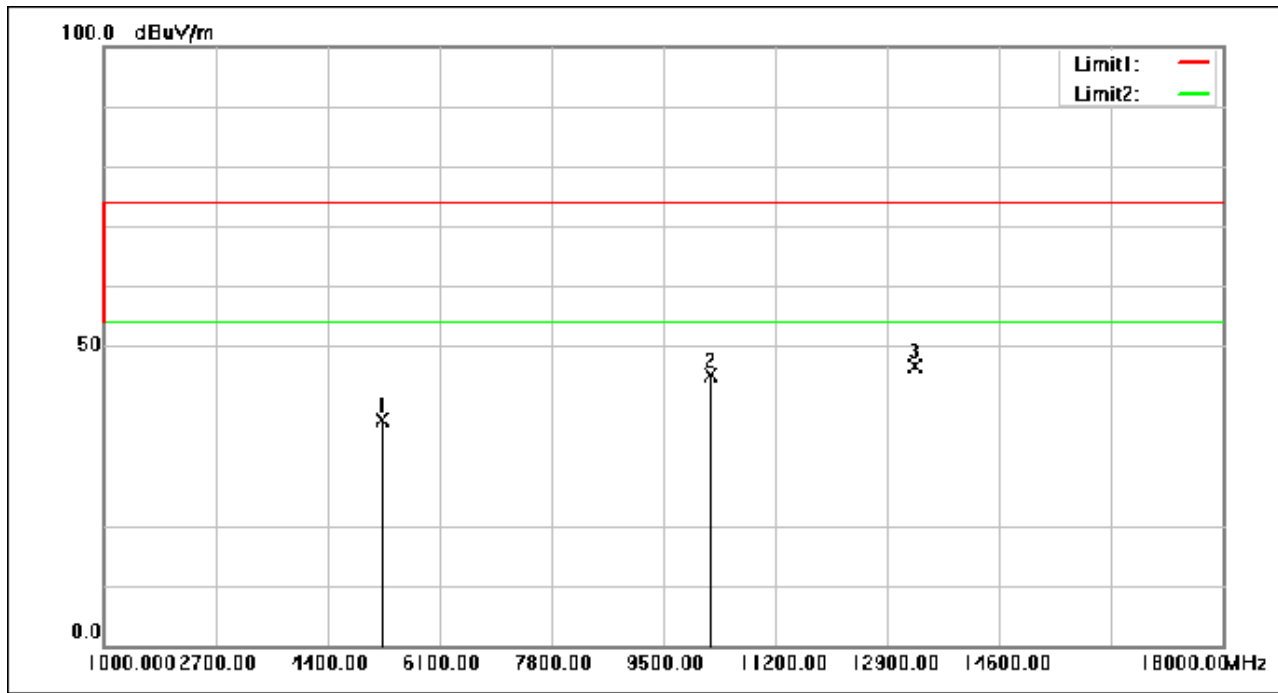
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 05; 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	5245.920	54.56	-16.97	37.59	74.00	-36.41	peak
2	10229.640	53.72	-8.55	45.17	74.00	-28.83	peak
3	13314.120	54.33	-7.58	46.75	74.00	-27.25	peak

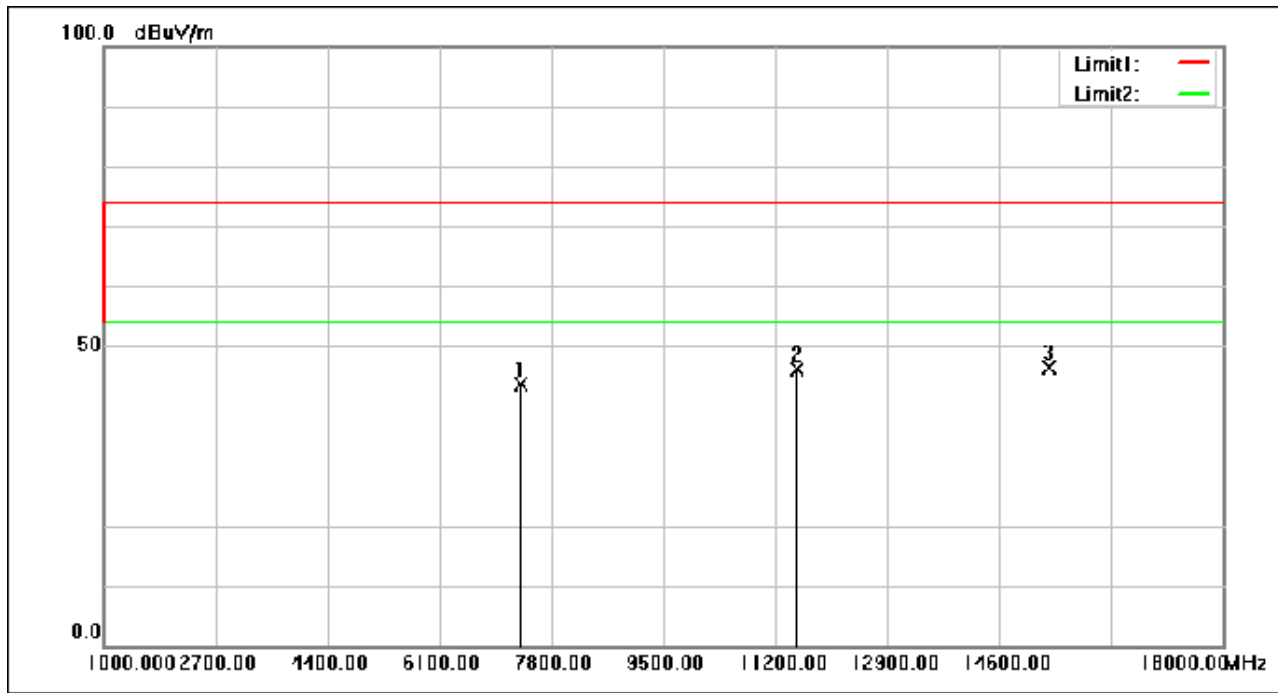
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7330.120	54.80	-11.18	43.62	74.00	-30.38	peak
2	11532.520	53.25	-7.24	46.01	74.00	-27.99	peak
3	15364.320	54.07	-7.78	46.29	74.00	-27.71	peak

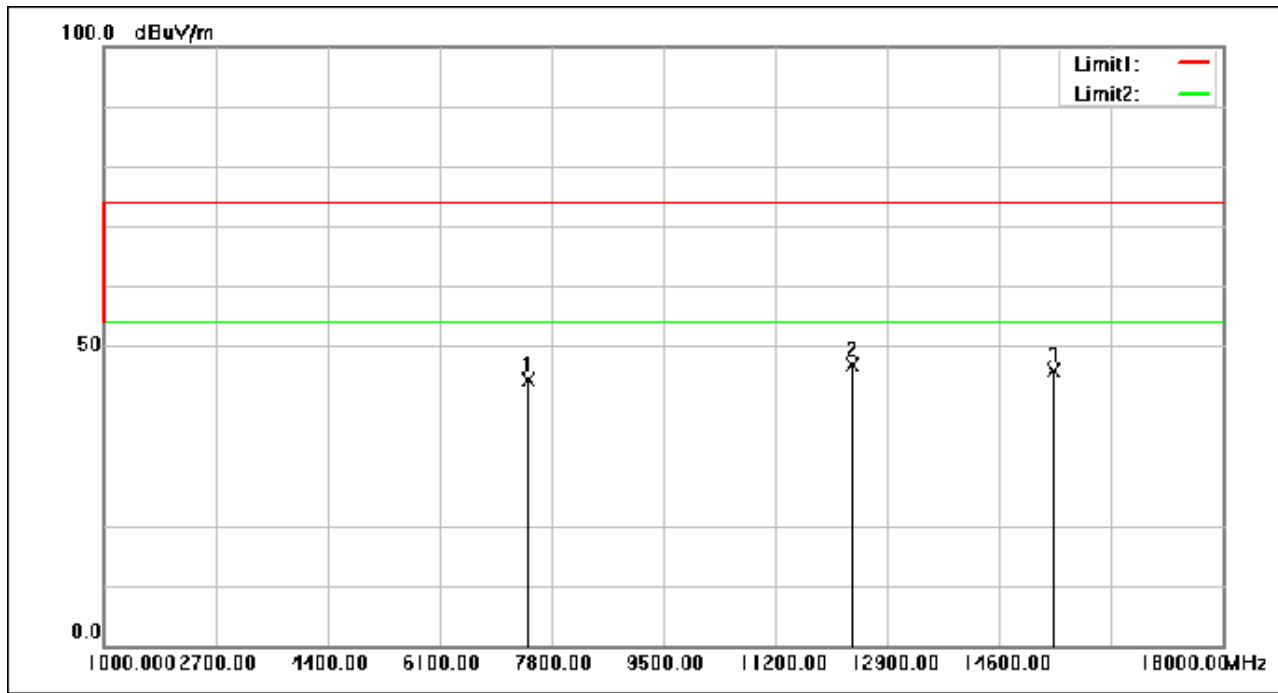
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7453.200	55.23	-10.87	44.36	74.00	-29.64	peak
2	12369.600	54.37	-7.57	46.80	74.00	-27.20	peak
3	15439.800	53.70	-7.78	45.92	74.00	-28.08	peak

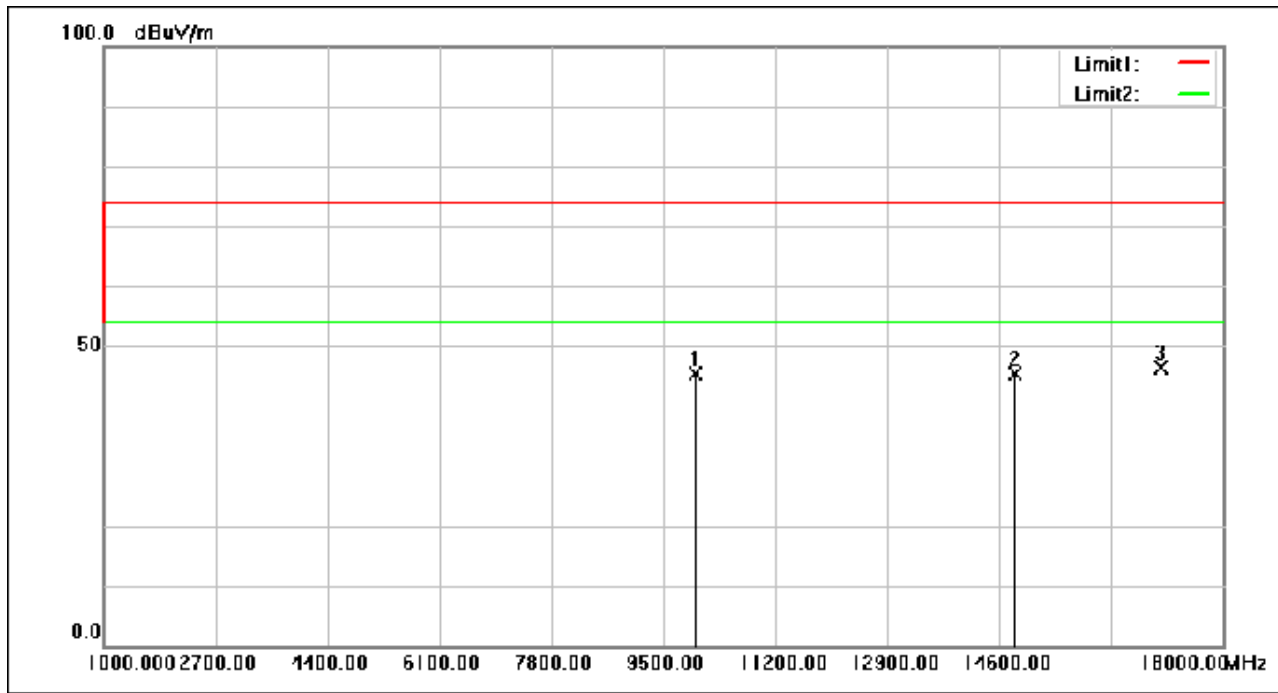
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10001.160	54.21	-8.94	45.27	74.00	-28.73	peak
2	14844.120	53.33	-7.93	45.40	74.00	-28.60	peak
3	17061.600	52.00	-5.73	46.27	74.00	-27.73	peak

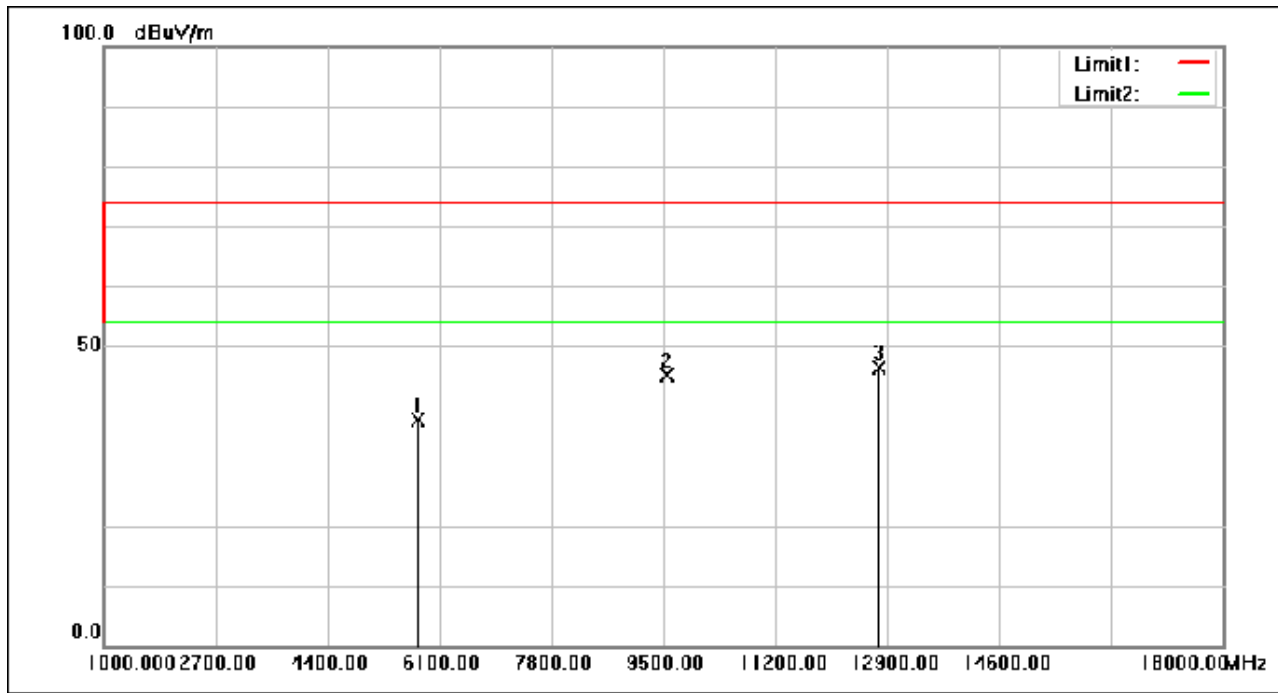
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5789.240	53.91	-16.39	37.52	74.00	-36.48	peak
2	9556.440	54.52	-9.47	45.05	74.00	-28.95	peak
3	12787.800	53.90	-7.49	46.41	74.00	-27.59	peak

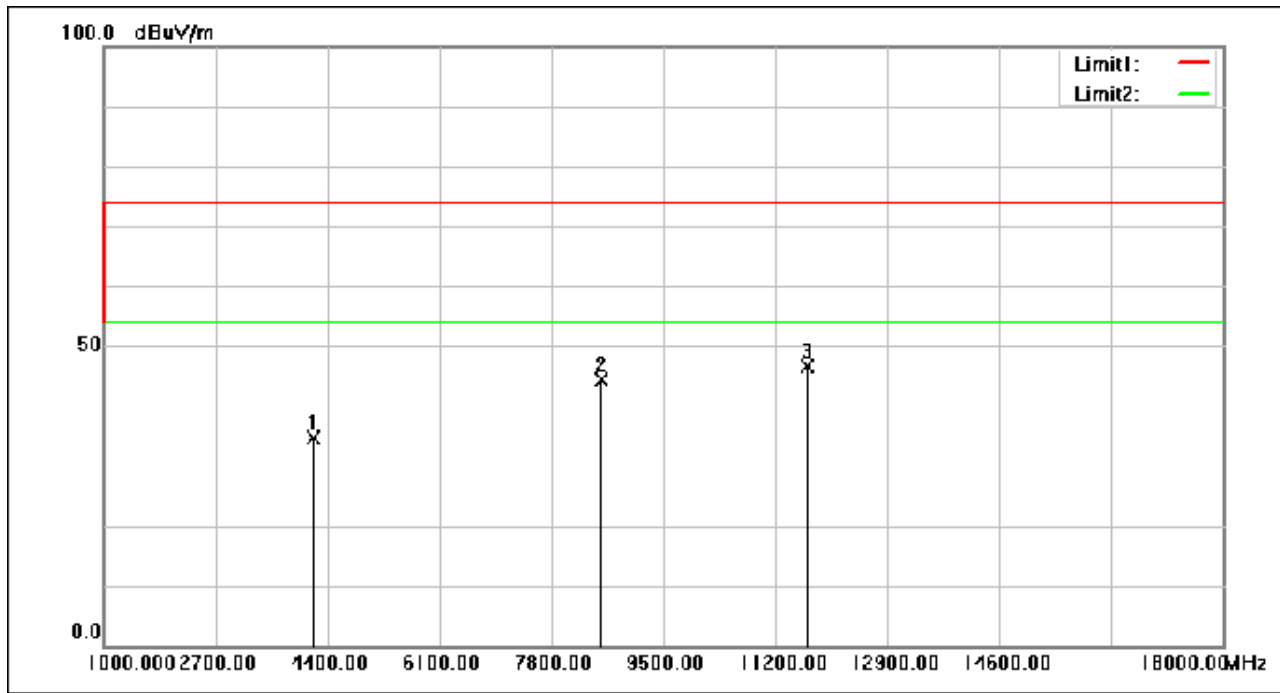
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4194.640	54.51	-19.91	34.60	74.00	-39.40	peak
2	8565.000	55.26	-10.85	44.41	74.00	-29.59	peak
3	11708.640	54.03	-7.40	46.63	74.00	-27.37	peak

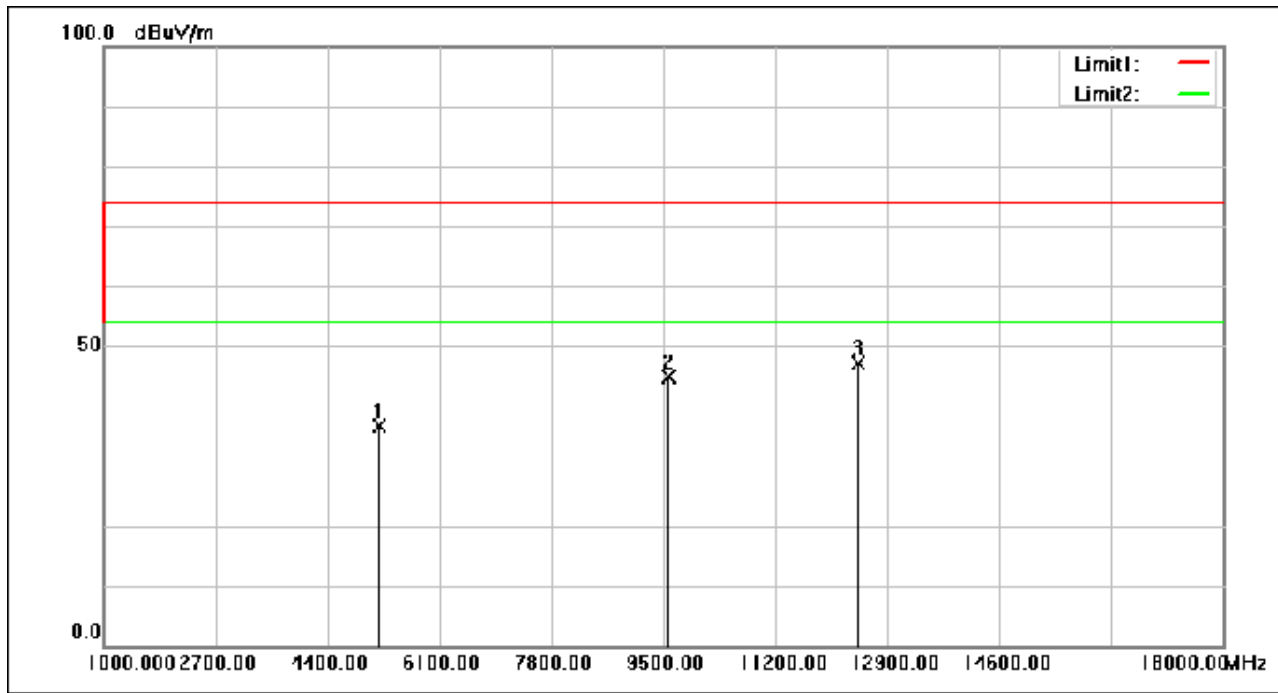
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5183.360	53.71	-17.04	36.67	74.00	-37.33	peak
2	9580.240	54.40	-9.45	44.95	74.00	-29.05	peak
3	12460.720	54.58	-7.55	47.03	74.00	-26.97	peak

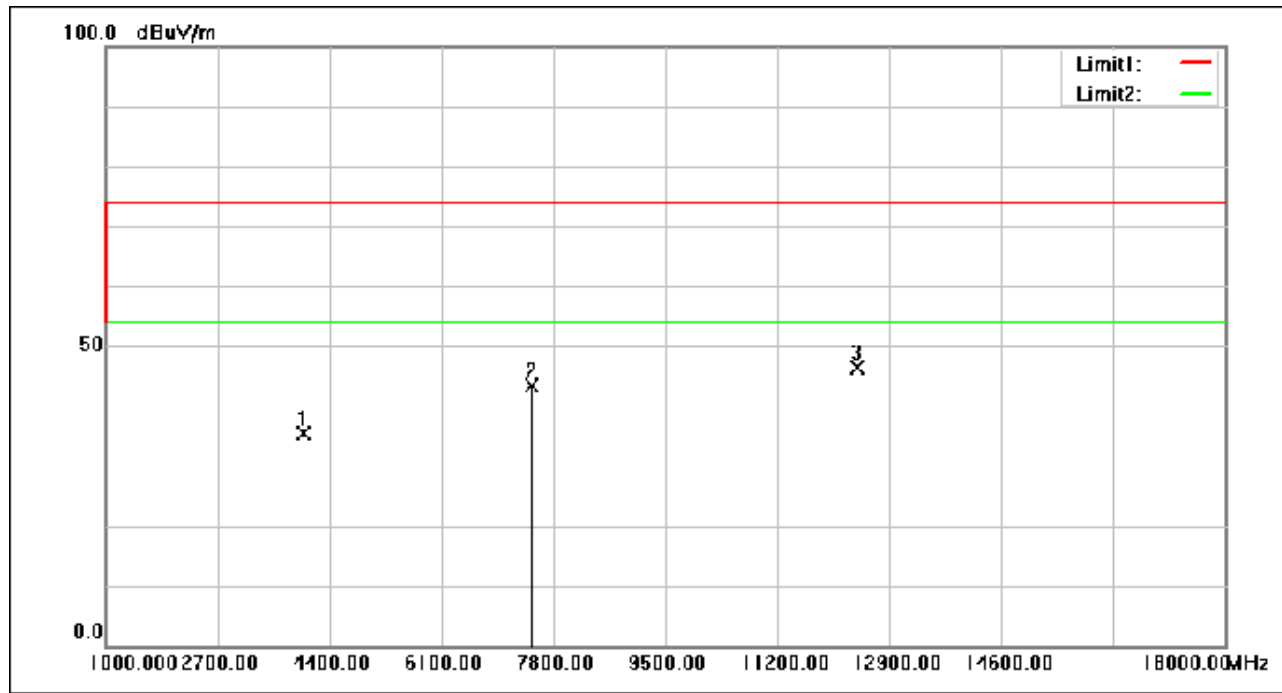
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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4006.280	55.75	-20.45	35.30	74.00	-38.70	peak
2	7470.880	54.28	-10.87	43.41	74.00	-30.59	peak
3	12415.840	53.85	-7.56	46.29	74.00	-27.71	peak

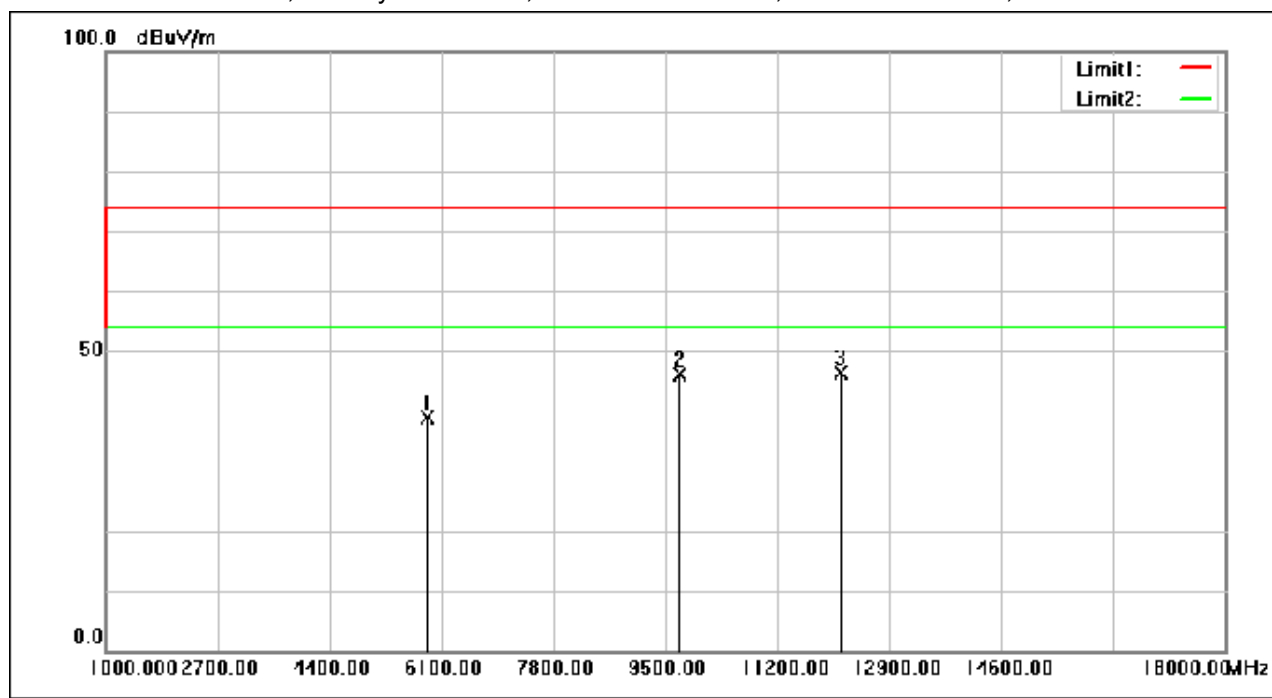
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5893.960	54.84	-16.08	38.76	74.00	-35.24	peak
2	9725.760	55.38	-9.30	46.08	74.00	-27.92	peak
3	12185.320	53.90	-7.59	46.31	74.00	-27.69	peak

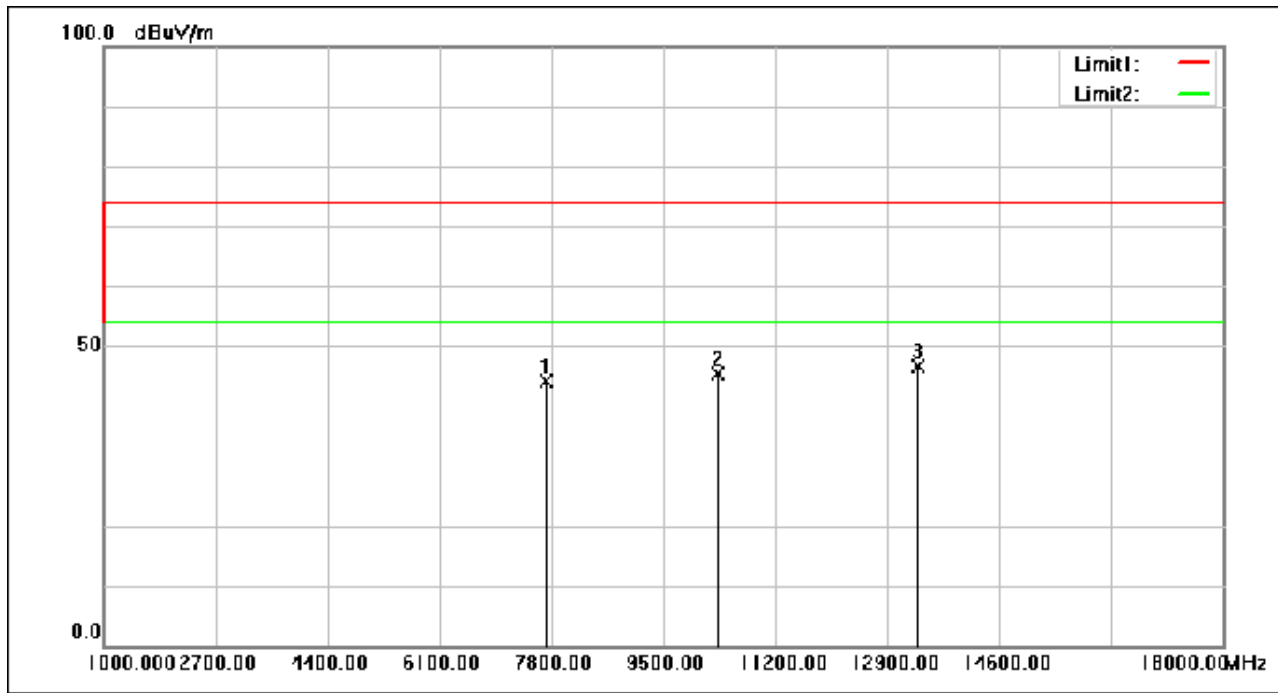
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7729.280	55.21	-11.13	44.08	74.00	-29.92	peak
2	10324.840	53.82	-8.39	45.43	74.00	-28.57	peak
3	13362.400	54.18	-7.59	46.59	74.00	-27.41	peak

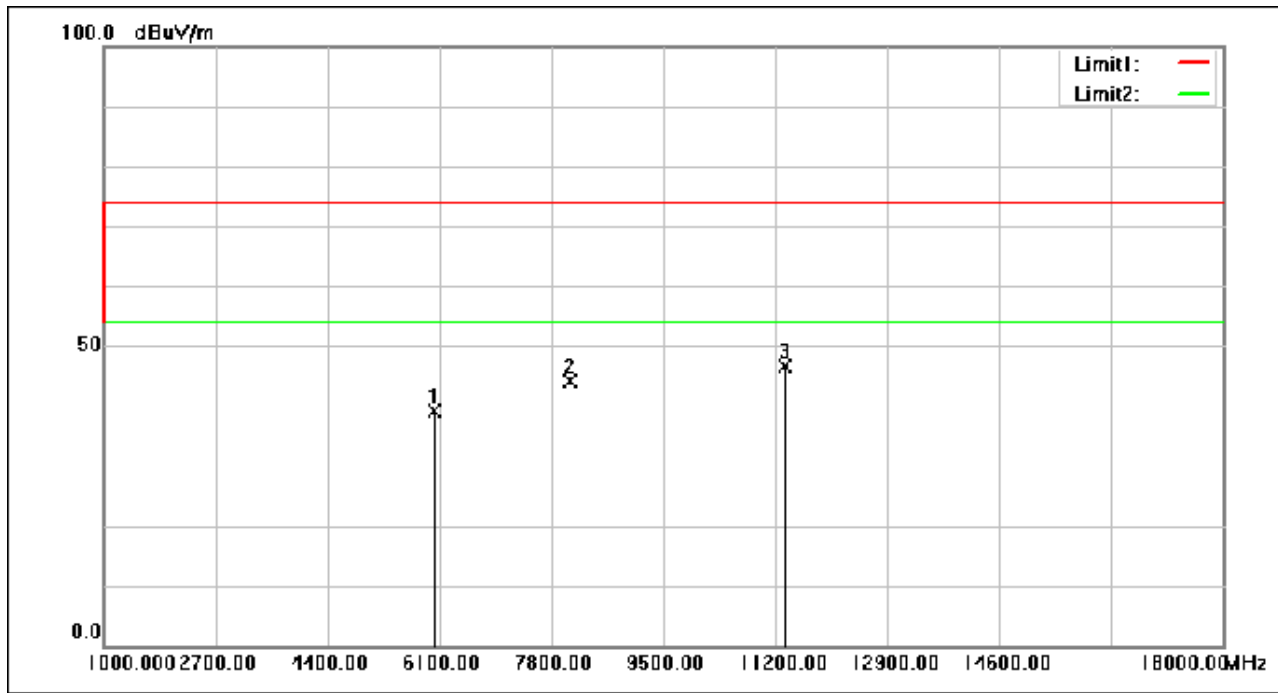
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6031.320	54.67	-15.61	39.06	74.00	-34.94	peak
2	8099.200	55.51	-11.43	44.08	74.00	-29.92	peak
3	11336.680	53.98	-7.30	46.68	74.00	-27.32	peak

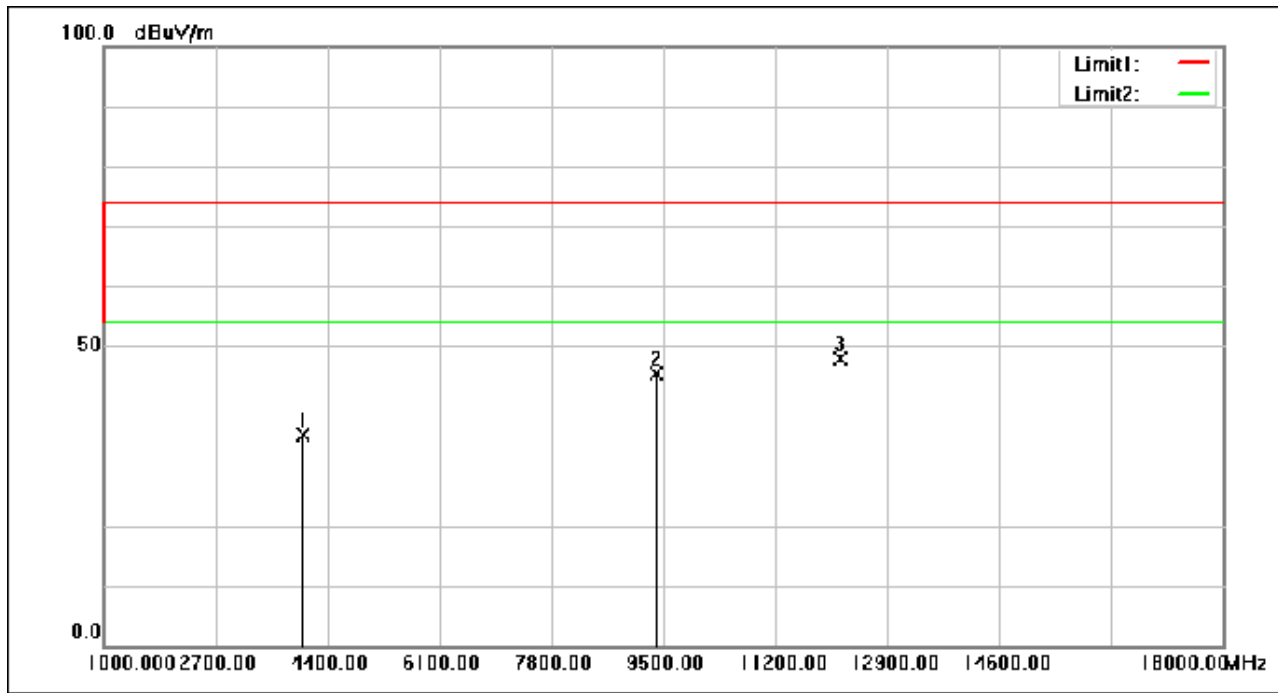
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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4037.560	55.57	-20.36	35.21	74.00	-38.79	peak
2	9412.960	54.99	-9.62	45.37	74.00	-28.63	peak
3	12192.800	55.50	-7.59	47.91	74.00	-26.09	peak

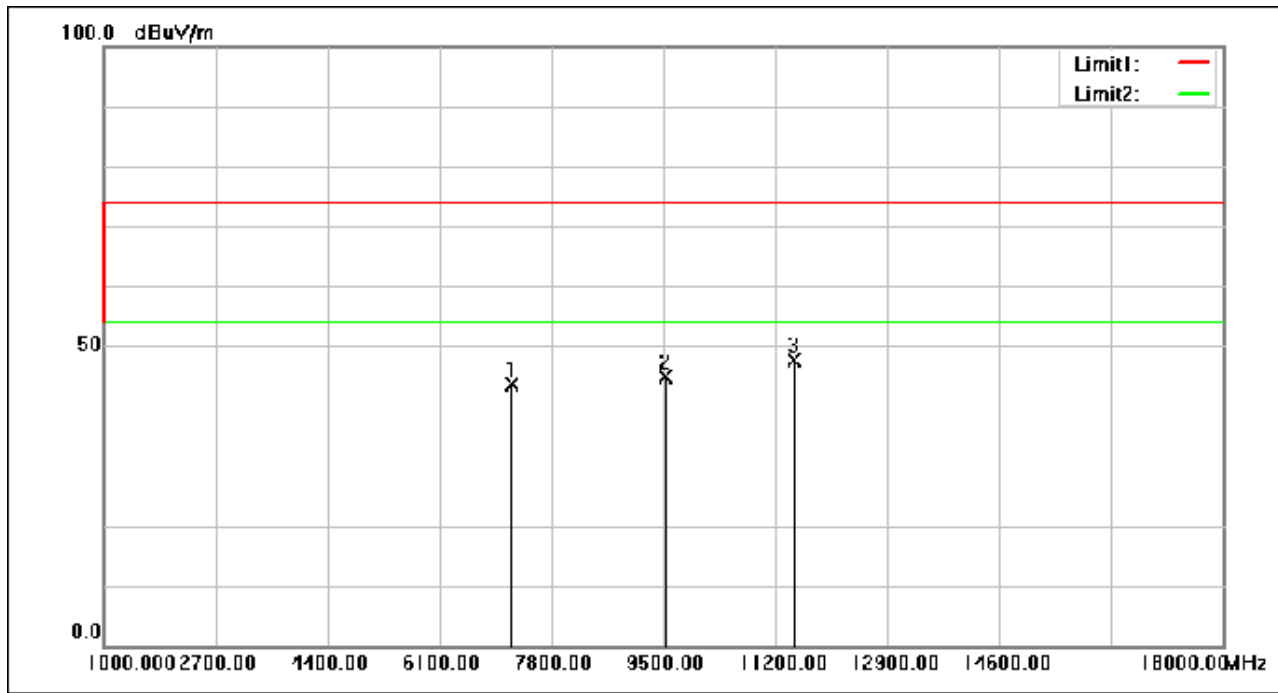
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Test Mode: 06; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7190.720	55.33	-11.75	43.58	74.00	-30.42	peak
2	9538.080	54.31	-9.50	44.81	74.00	-29.19	peak
3	11500.560	54.90	-7.21	47.69	74.00	-26.31	peak

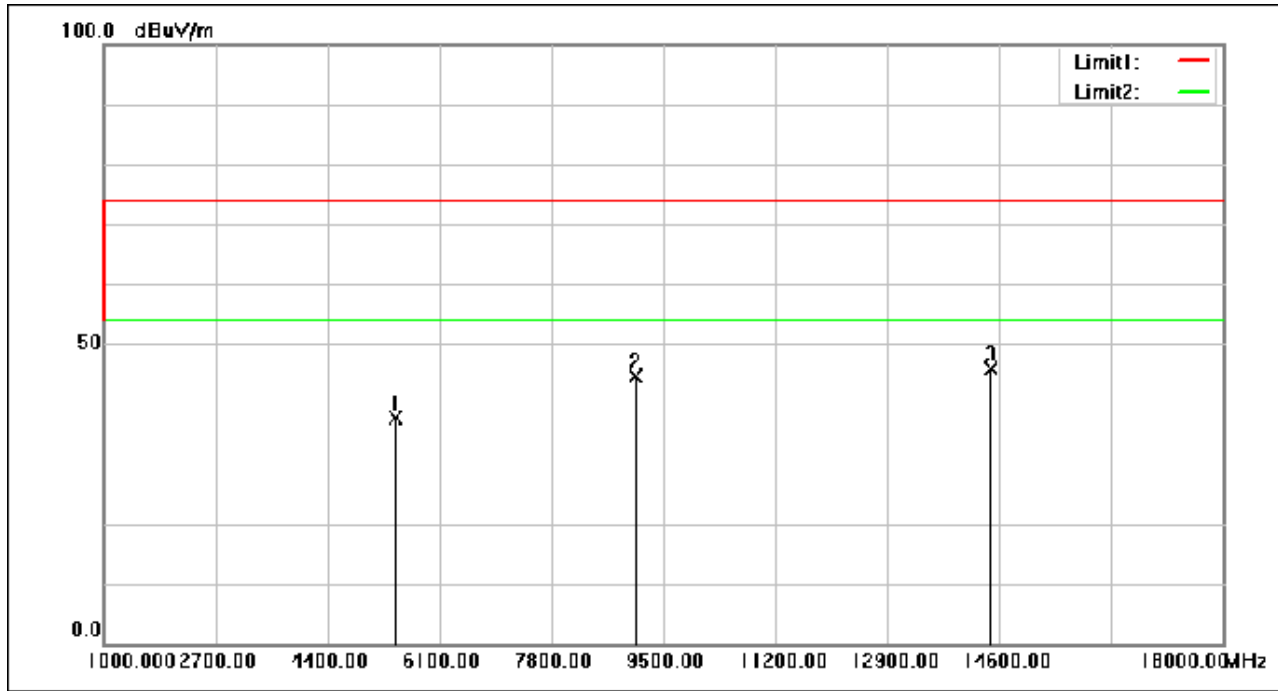
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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5445.840	54.60	-16.89	37.71	74.00	-36.29	peak
2	9075.000	54.43	-9.91	44.52	74.00	-29.48	peak
3	14471.480	54.20	-8.30	45.90	74.00	-28.10	peak

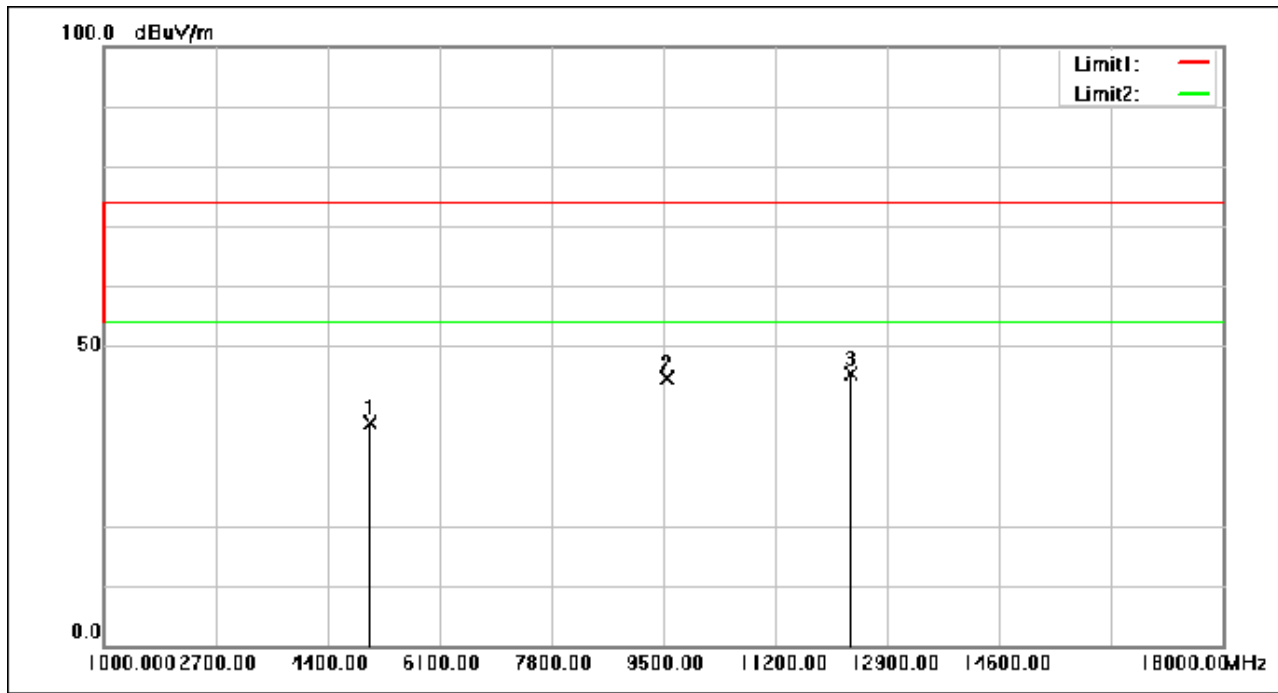
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5046.680	54.40	-17.33	37.07	74.00	-36.93	peak
2	9565.280	54.20	-9.46	44.74	74.00	-29.26	peak
3	12341.040	53.02	-7.56	45.46	74.00	-28.54	peak

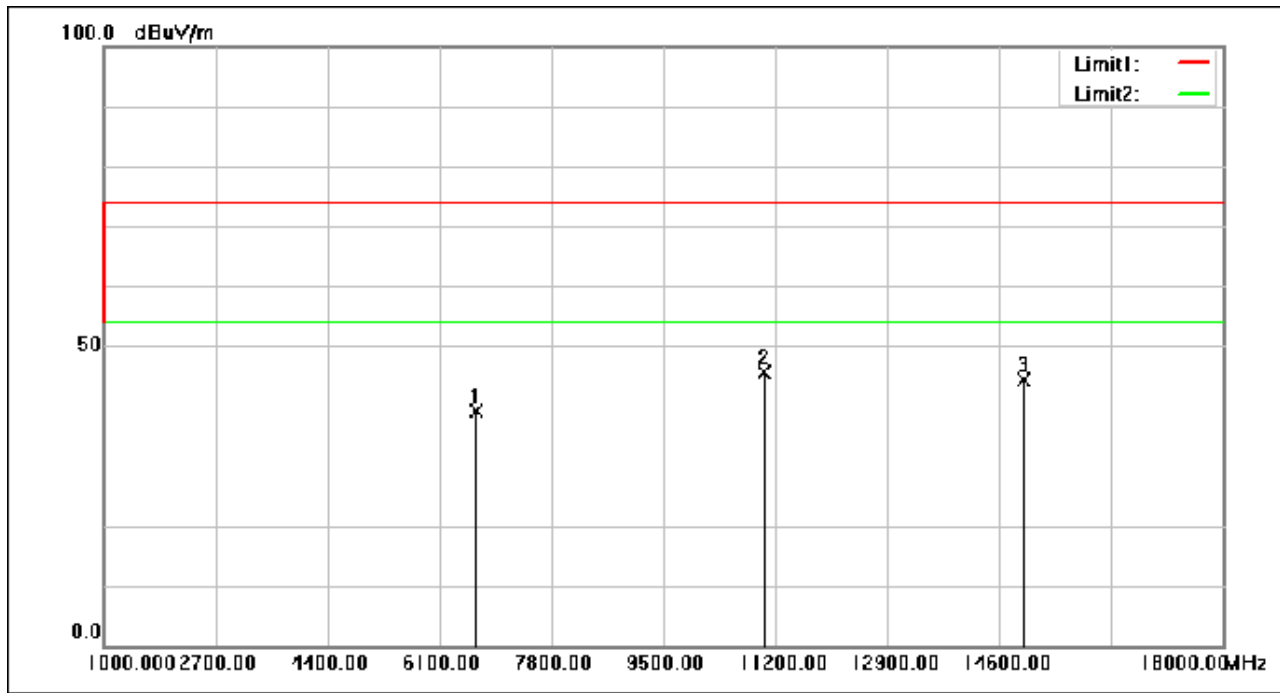
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6667.800	52.78	-13.77	39.01	74.00	-34.99	peak
2	11044.960	53.09	-7.45	45.64	74.00	-28.36	peak
3	14979.440	52.17	-7.77	44.40	74.00	-29.60	peak

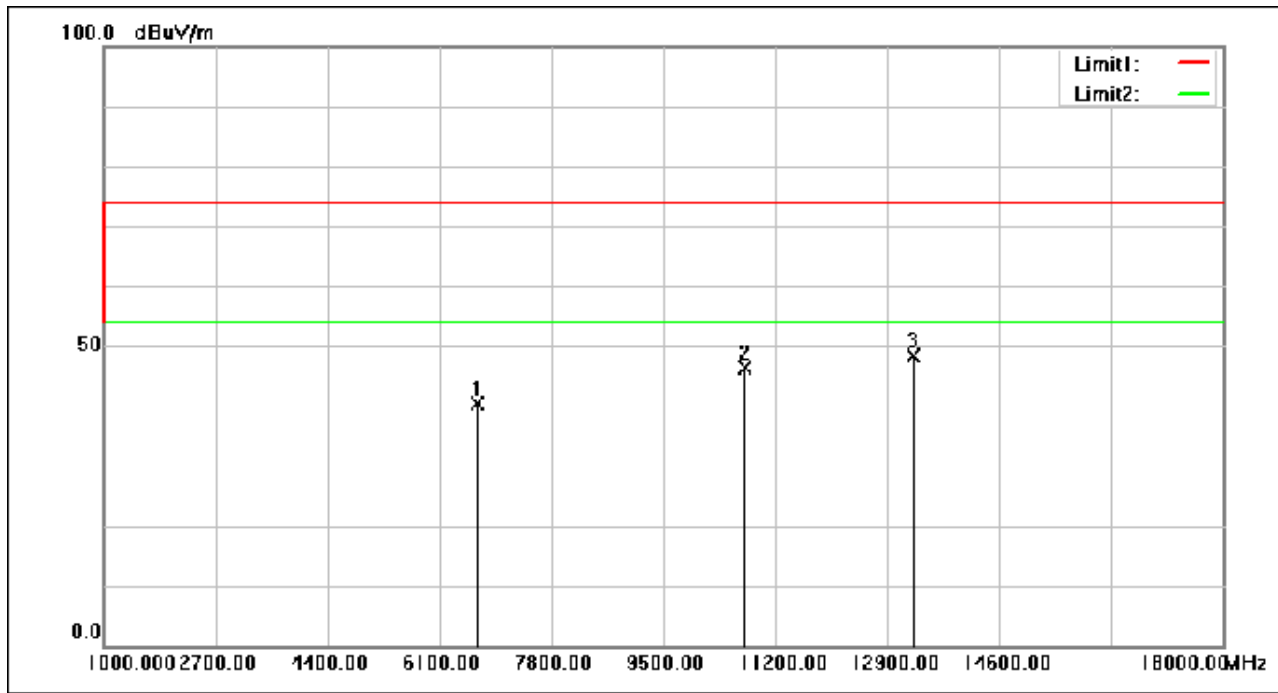
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6690.920	53.98	-13.69	40.29	74.00	-33.71	peak
2	10743.040	54.02	-7.64	46.38	74.00	-27.62	peak
3	13303.240	55.85	-7.57	48.28	74.00	-25.72	peak

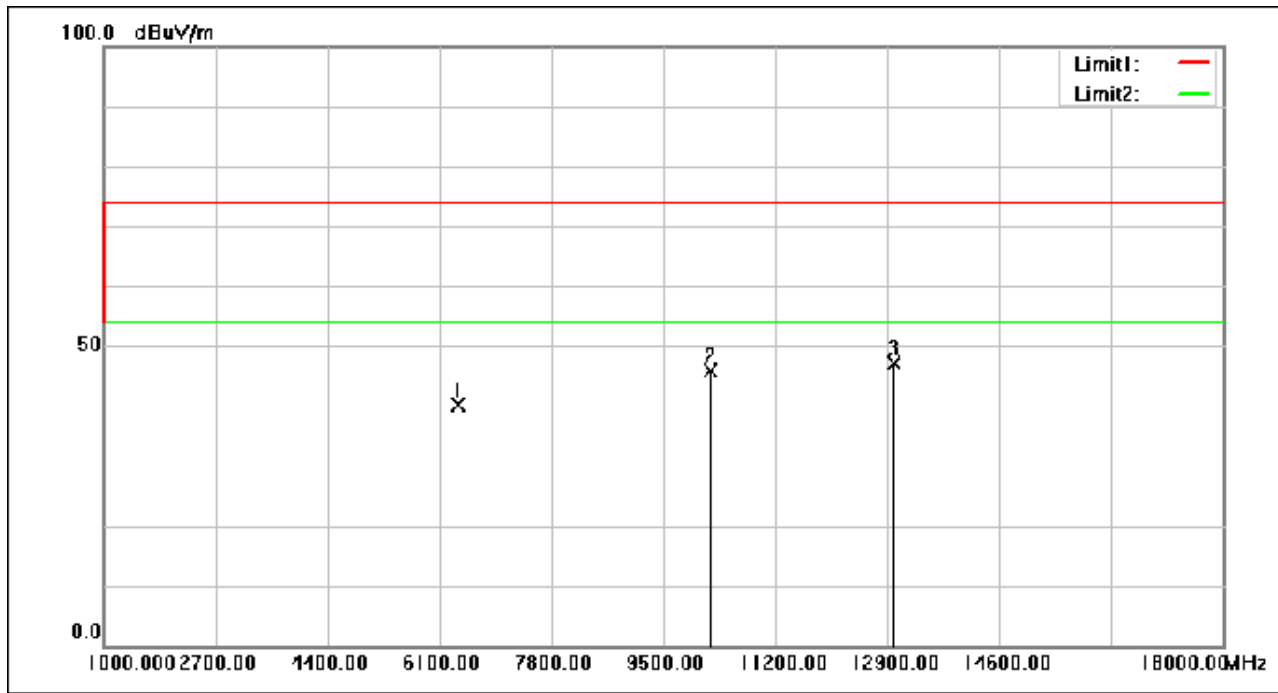
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6399.880	54.66	-14.61	40.05	74.00	-33.95	peak
2	10215.360	54.53	-8.58	45.95	74.00	-28.05	peak
3	13002.680	54.70	-7.46	47.24	74.00	-26.76	peak

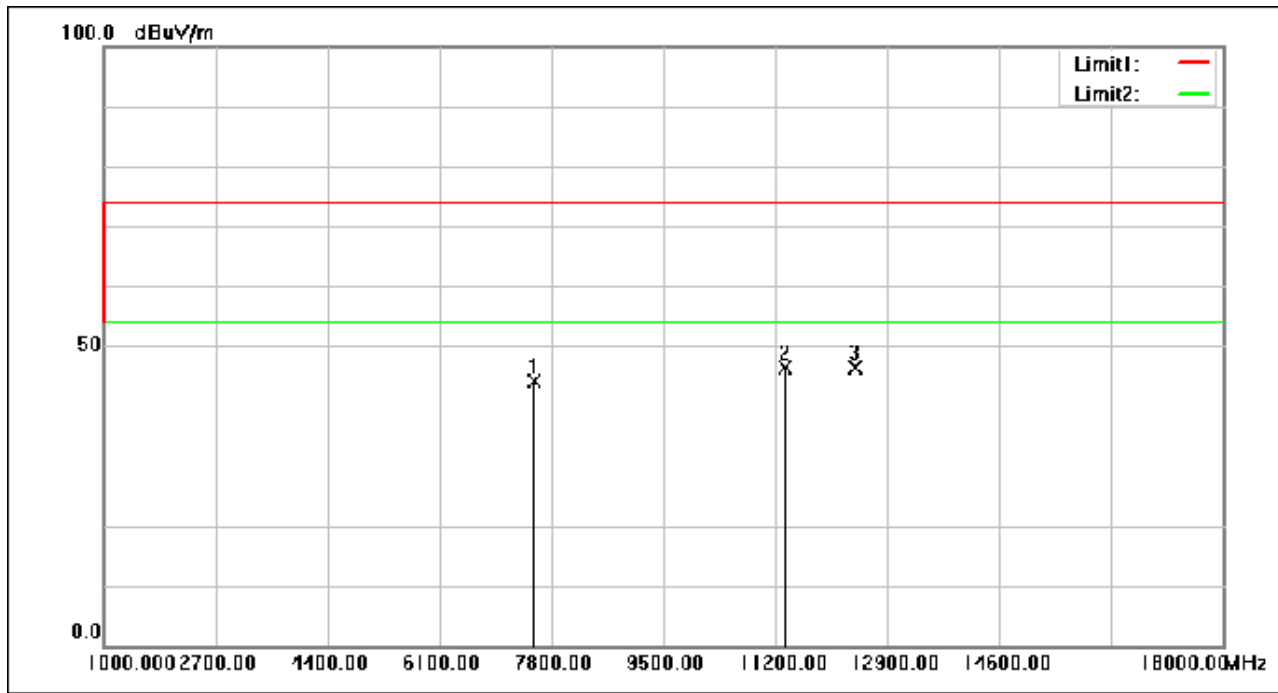
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7542.960	54.98	-10.90	44.08	74.00	-29.92	peak
2	11343.480	53.76	-7.30	46.46	74.00	-27.54	peak
3	12415.840	53.92	-7.56	46.36	74.00	-27.64	peak

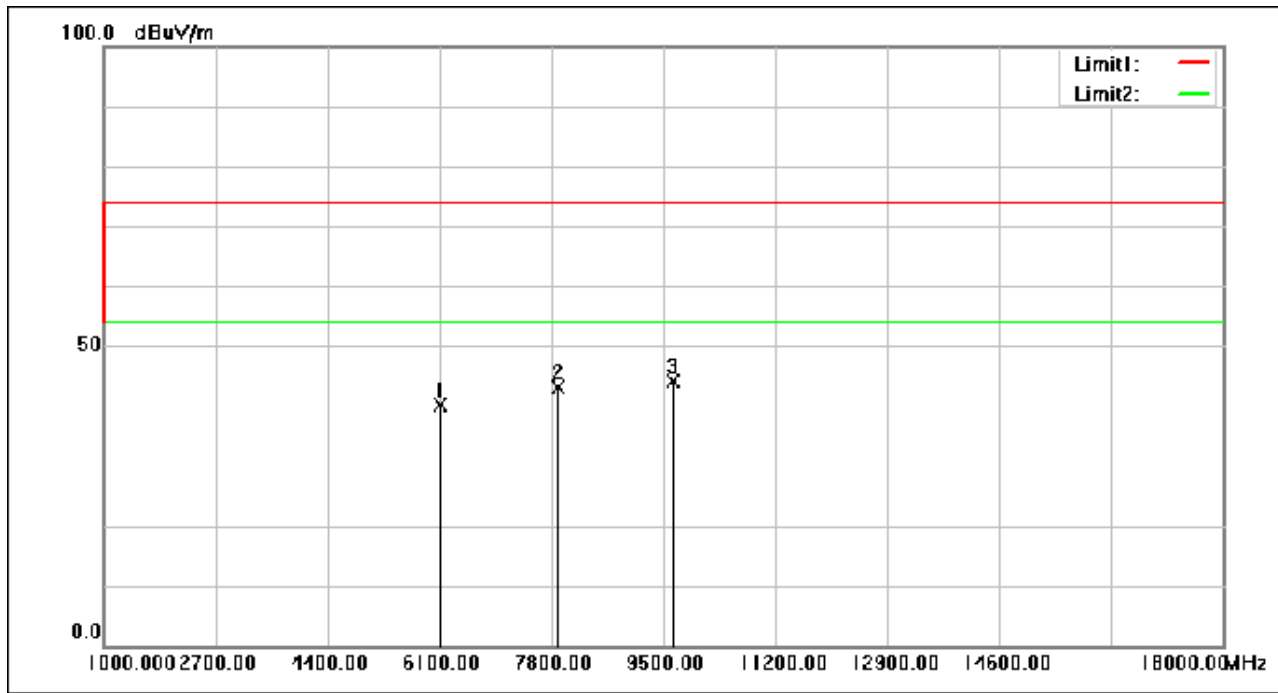
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6127.200	55.64	-15.46	40.18	74.00	-33.82	peak
2	7909.480	54.38	-11.36	43.02	74.00	-30.98	peak
3	9646.880	53.62	-9.38	44.24	74.00	-29.76	peak

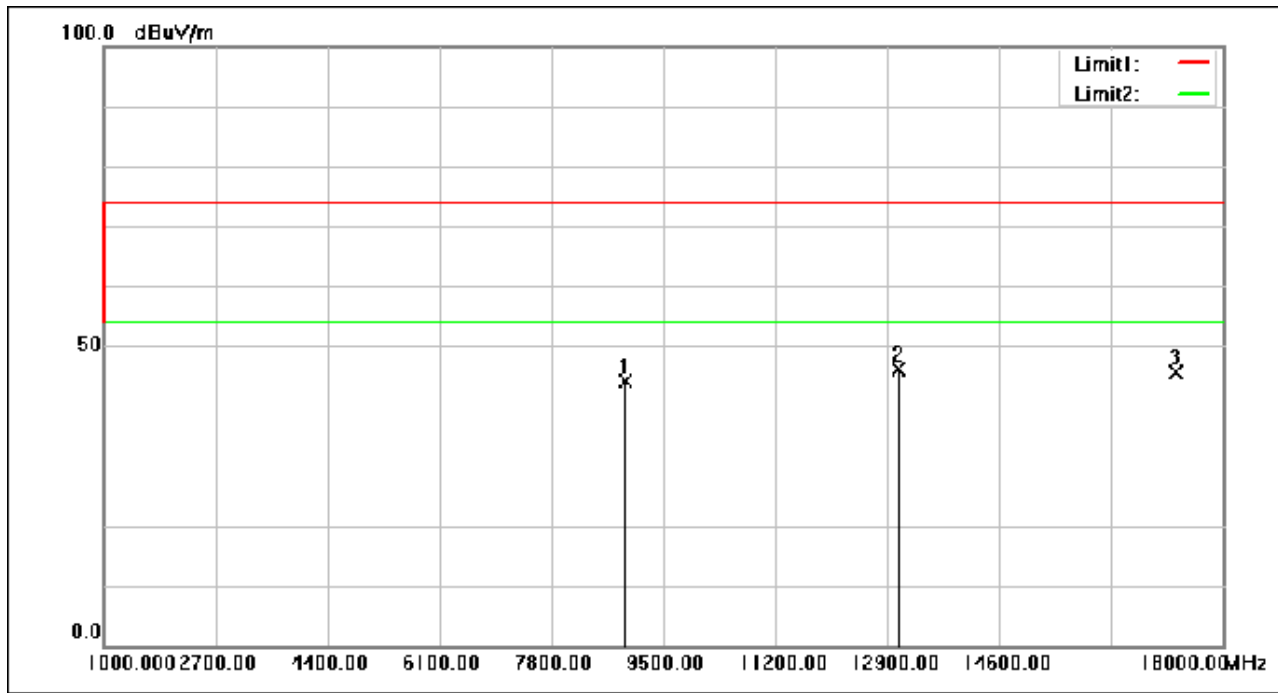
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 06; 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	8936.280	54.23	-10.10	44.13	74.00	-29.87	peak
2	13081.560	53.73	-7.49	46.24	74.00	-27.76	peak
3	17292.800	51.06	-5.55	45.51	74.00	-28.49	peak

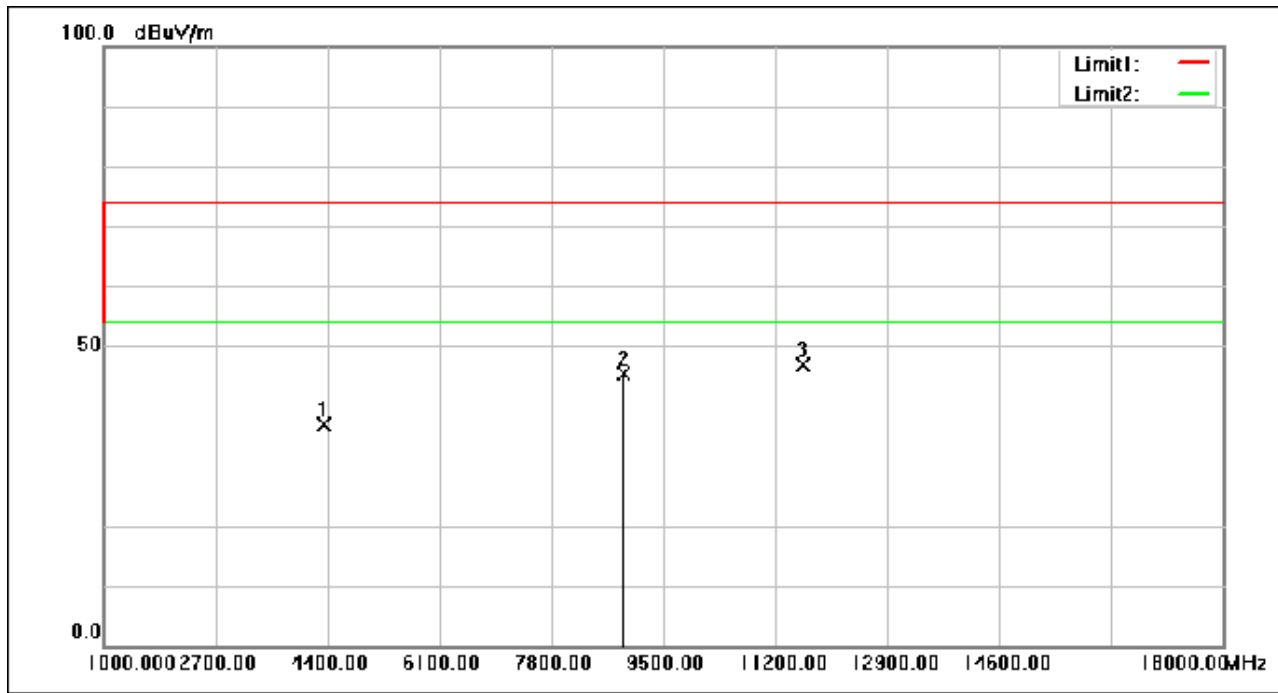
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4355.800	56.39	-19.51	36.88	74.00	-37.12	peak
2	8907.040	55.43	-10.16	45.27	74.00	-28.73	peak
3	11633.840	54.29	-7.33	46.96	74.00	-27.04	peak

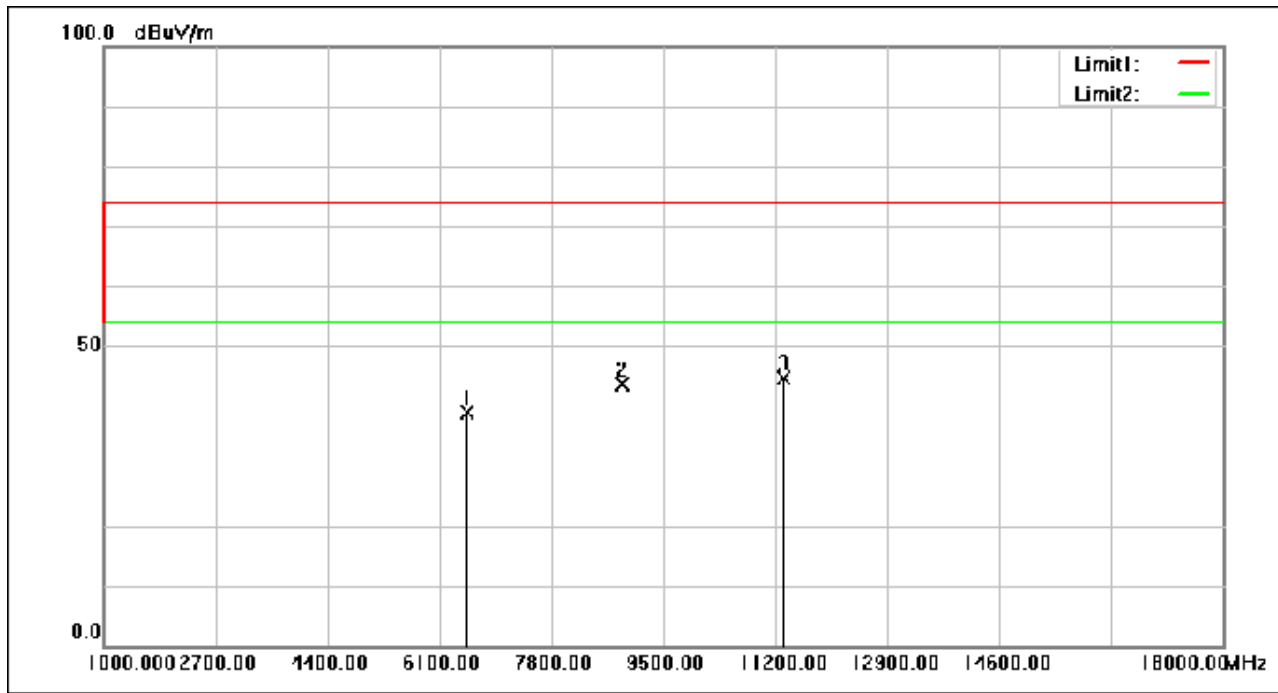
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6528.400	53.04	-14.20	38.84	74.00	-35.16	peak
2	8882.560	53.90	-10.21	43.69	74.00	-30.31	peak
3	11331.920	51.89	-7.30	44.59	74.00	-29.41	peak

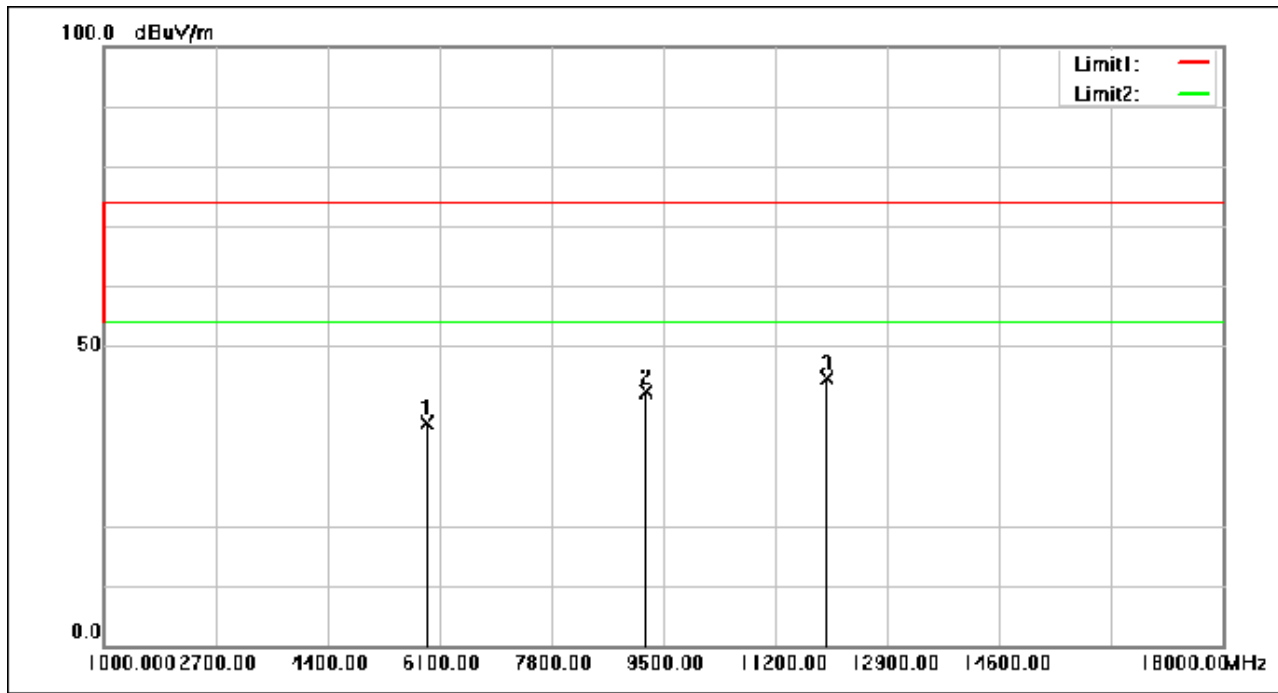
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5913.000	53.03	-16.00	37.03	74.00	-36.97	peak
2	9255.200	52.25	-9.75	42.50	74.00	-31.50	peak
3	11985.400	52.33	-7.61	44.72	74.00	-29.28	peak

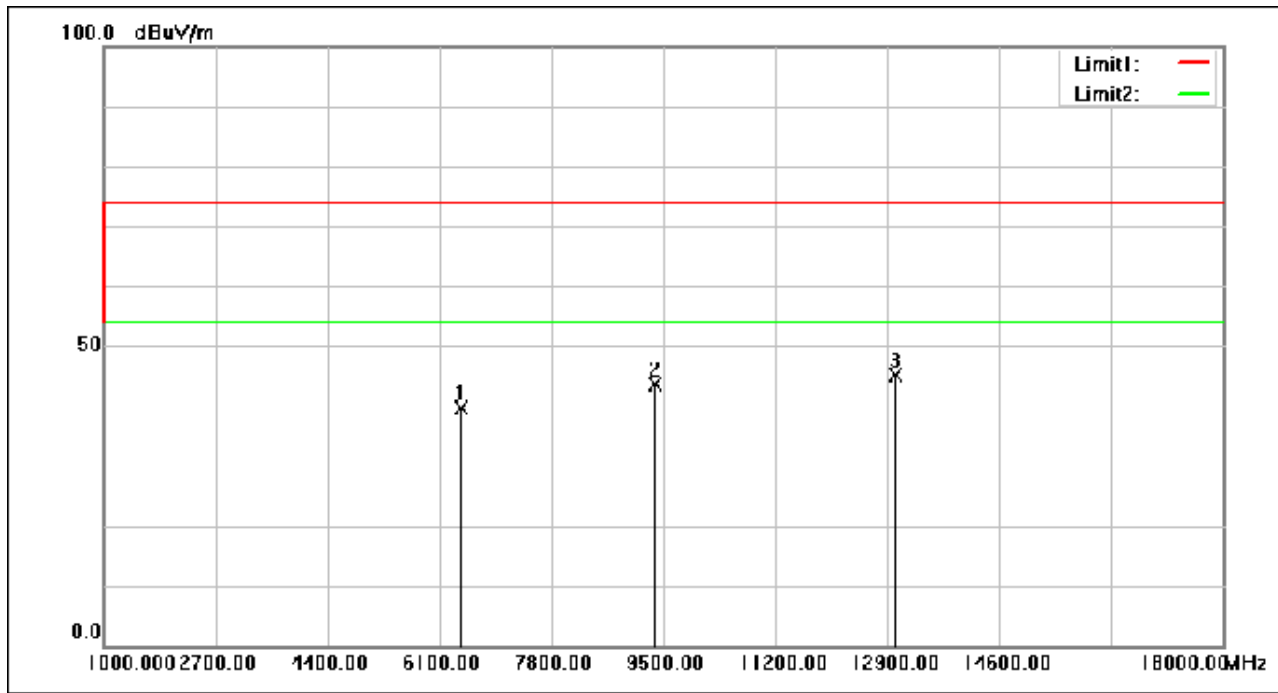
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6428.440	54.18	-14.52	39.66	74.00	-34.34	peak
2	9386.440	53.25	-9.63	43.62	74.00	-30.38	peak
3	13031.240	52.51	-7.47	45.04	74.00	-28.96	peak

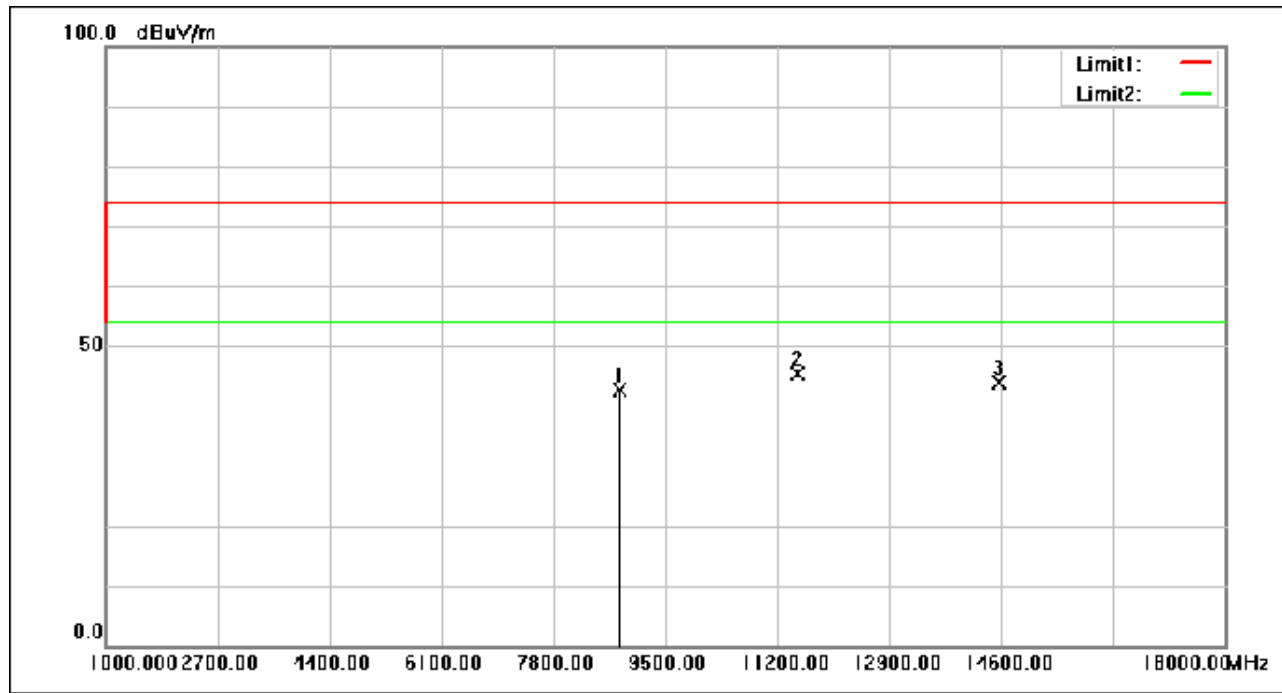
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8818.640	52.96	-10.34	42.62	74.00	-31.38	peak
2	11508.720	52.59	-7.22	45.37	74.00	-28.63	peak
3	14567.360	52.19	-8.24	43.95	74.00	-30.05	peak

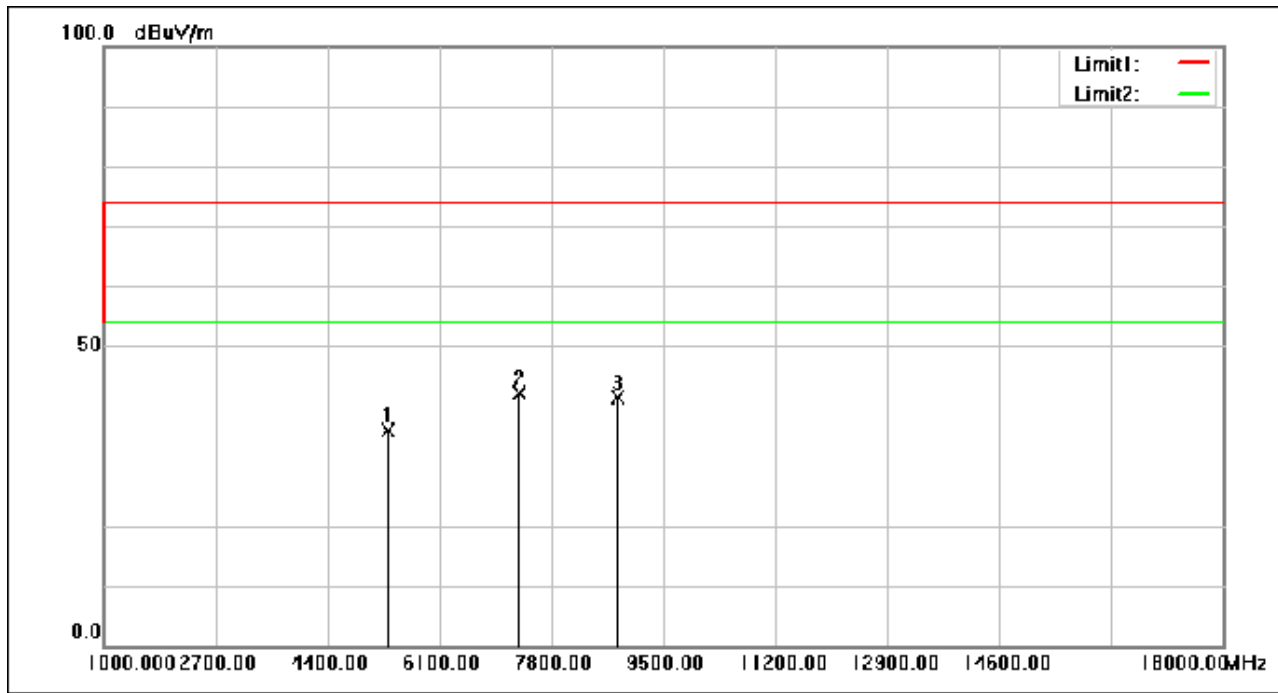
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5333.640	52.86	-17.05	35.81	74.00	-38.19	peak
2	7311.760	53.32	-11.26	42.06	74.00	-31.94	peak
3	8811.840	51.69	-10.35	41.34	74.00	-32.66	peak

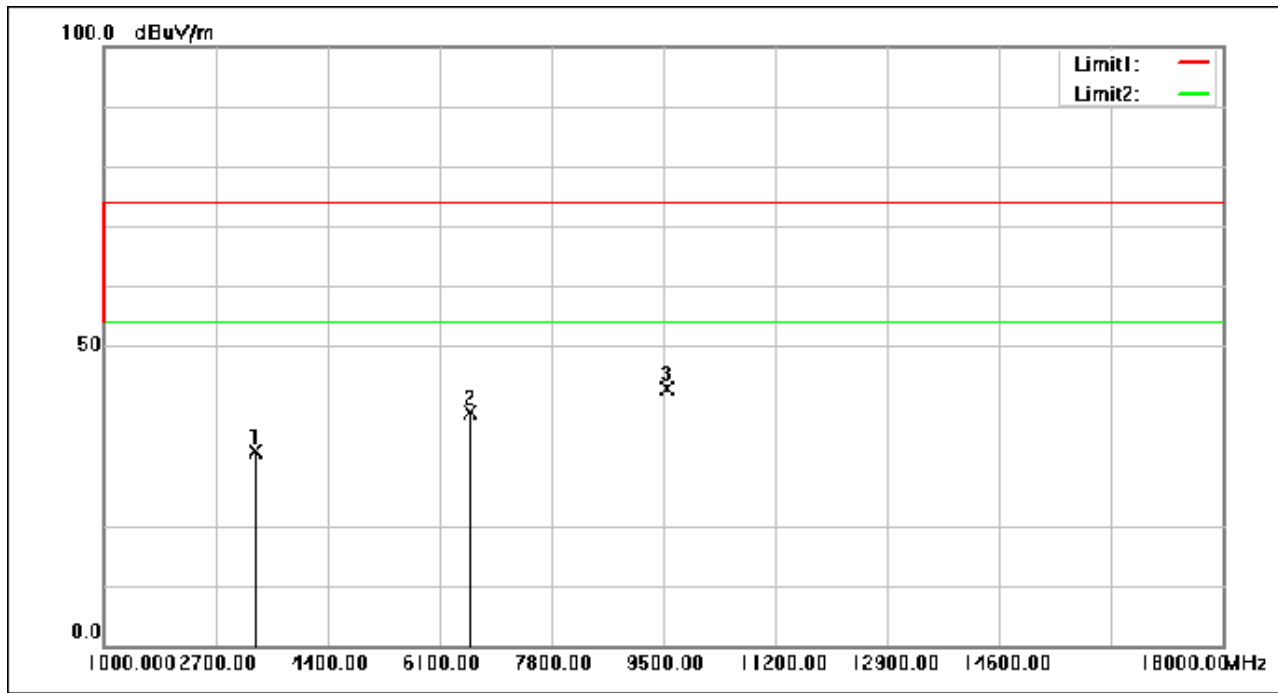
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3299.760	54.21	-21.84	32.37	74.00	-41.63	peak
2	6570.560	53.03	-14.07	38.96	74.00	-35.04	peak
3	9561.880	52.26	-9.47	42.79	74.00	-31.21	peak

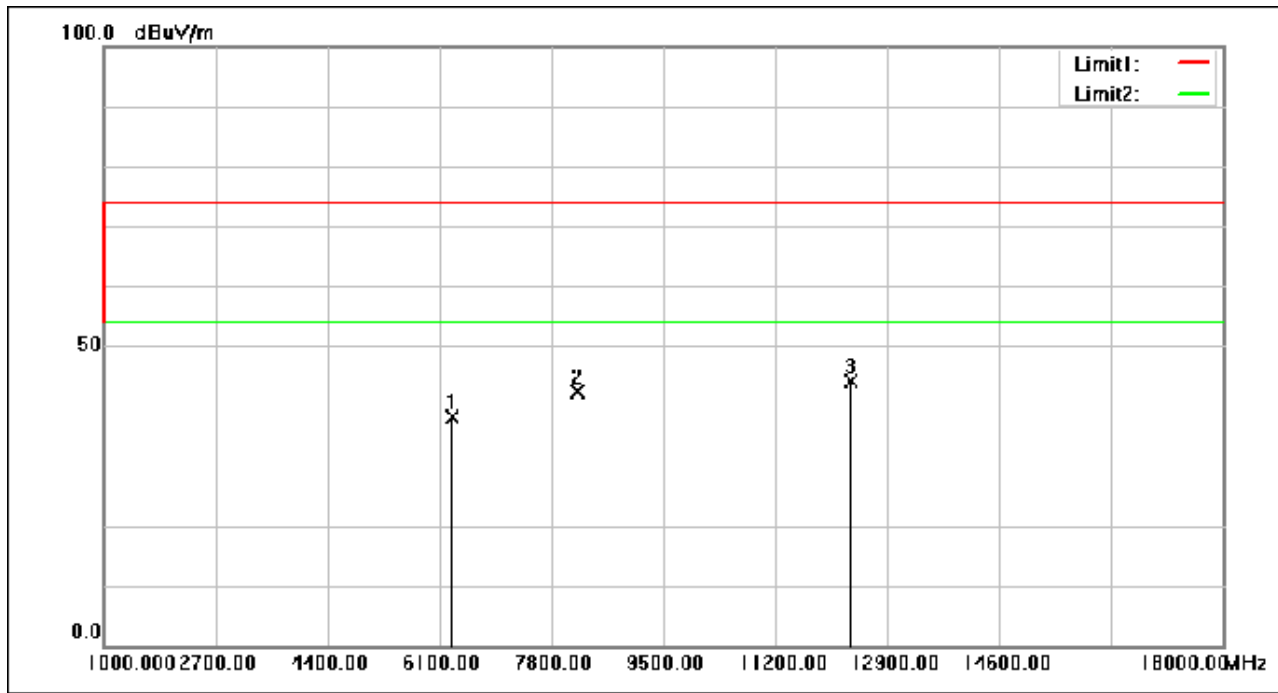
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6292.440	53.03	-14.94	38.09	74.00	-35.91	peak
2	8194.400	53.85	-11.35	42.50	74.00	-31.50	peak
3	12345.120	51.68	-7.56	44.12	74.00	-29.88	peak

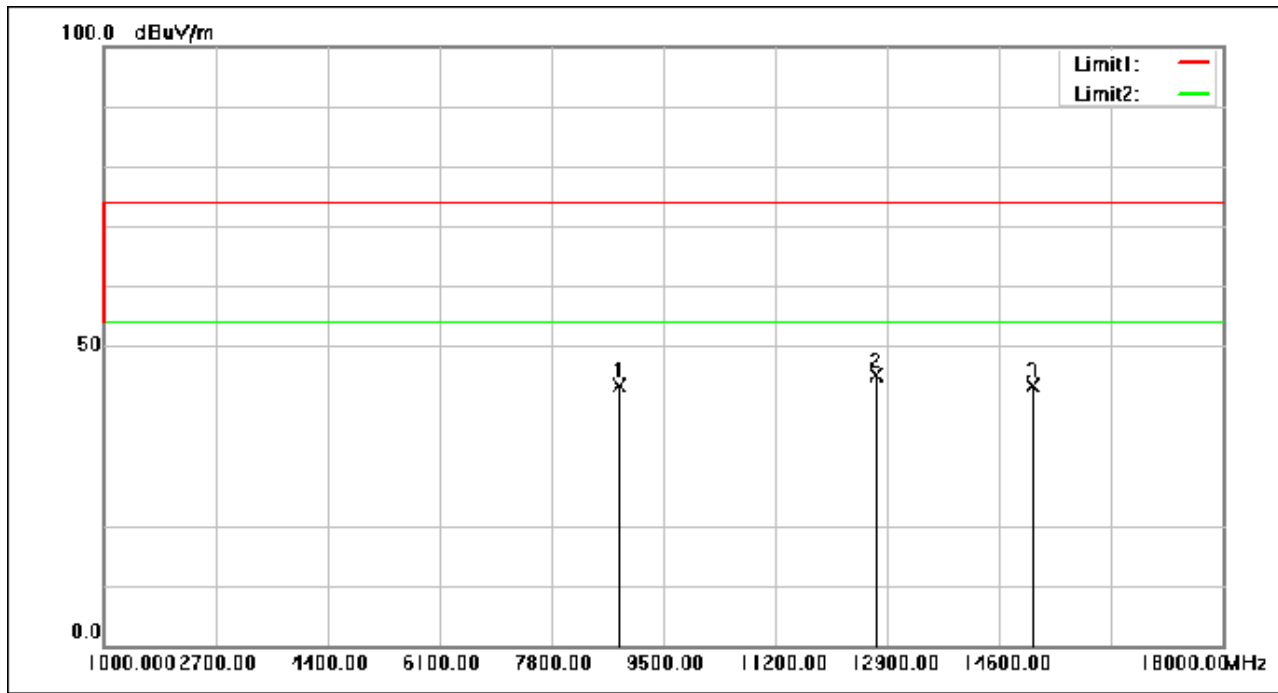
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8847.880	53.59	-10.28	43.31	74.00	-30.69	peak
2	12737.480	52.69	-7.50	45.19	74.00	-28.81	peak
3	15113.400	51.25	-7.76	43.49	74.00	-30.51	peak

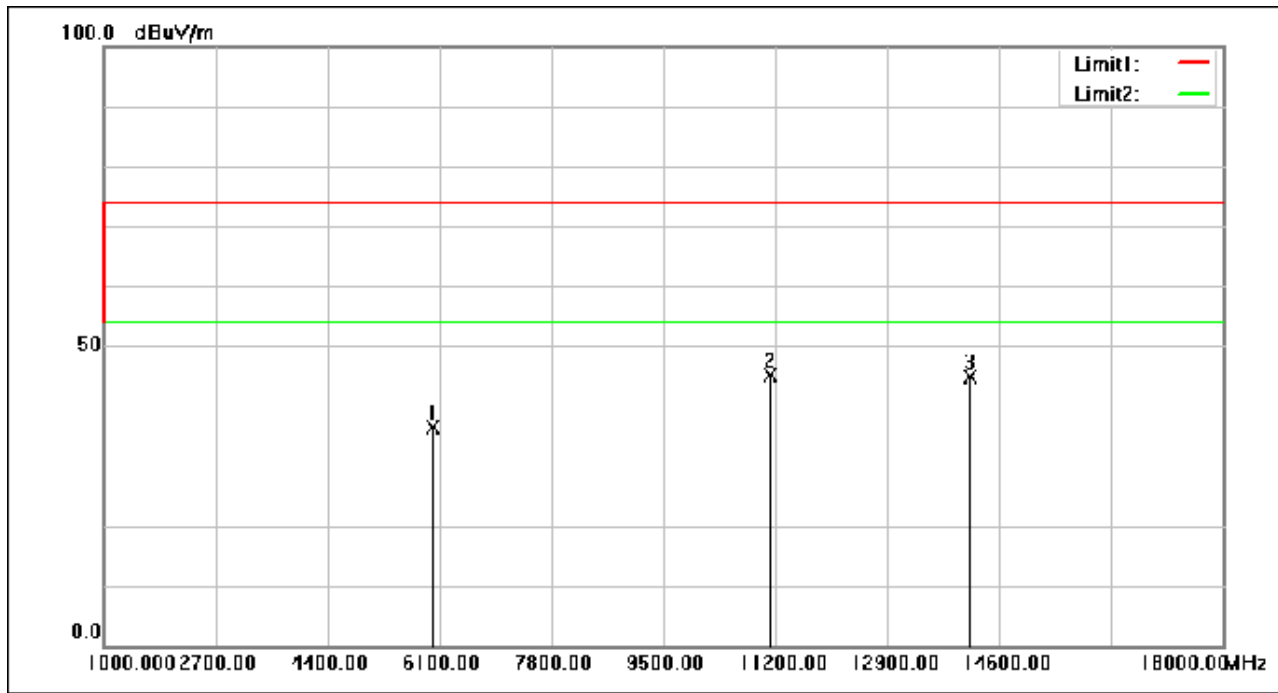
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6009.560	51.94	-15.64	36.30	74.00	-37.70	peak
2	11129.280	52.56	-7.42	45.14	74.00	-28.86	peak
3	14161.400	53.09	-8.18	44.91	74.00	-29.09	peak

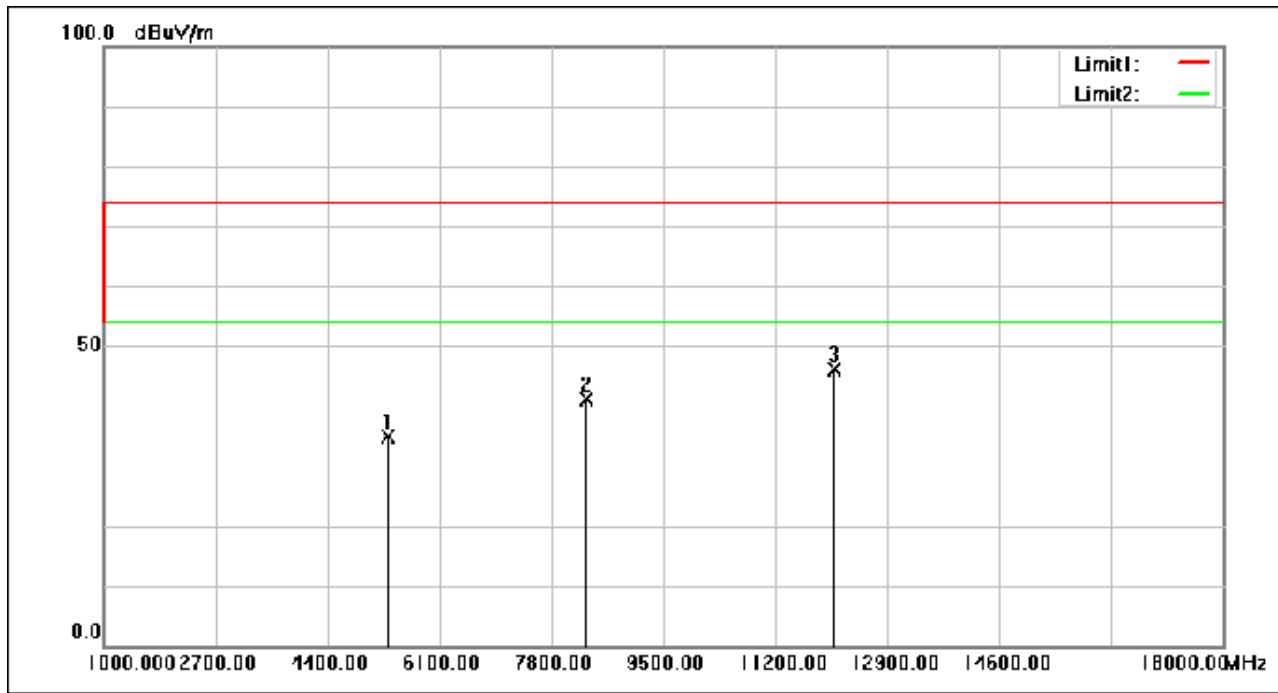
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5318.000	51.91	-17.04	34.87	74.00	-39.13	peak
2	8341.280	52.25	-11.18	41.07	74.00	-32.93	peak
3	12113.920	53.62	-7.61	46.01	74.00	-27.99	peak

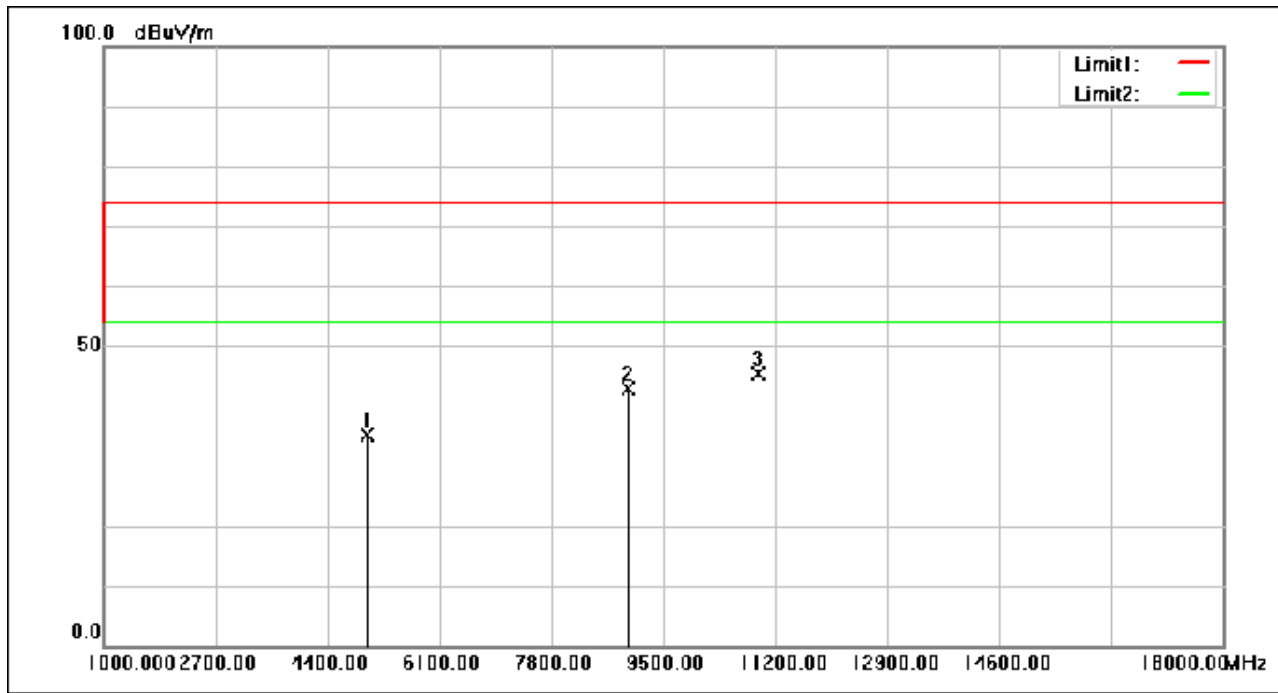
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5009.280	52.52	-17.47	35.05	74.00	-38.95	peak
2	8984.560	52.83	-10.00	42.83	74.00	-31.17	peak
3	10953.840	52.85	-7.48	45.37	74.00	-28.63	peak

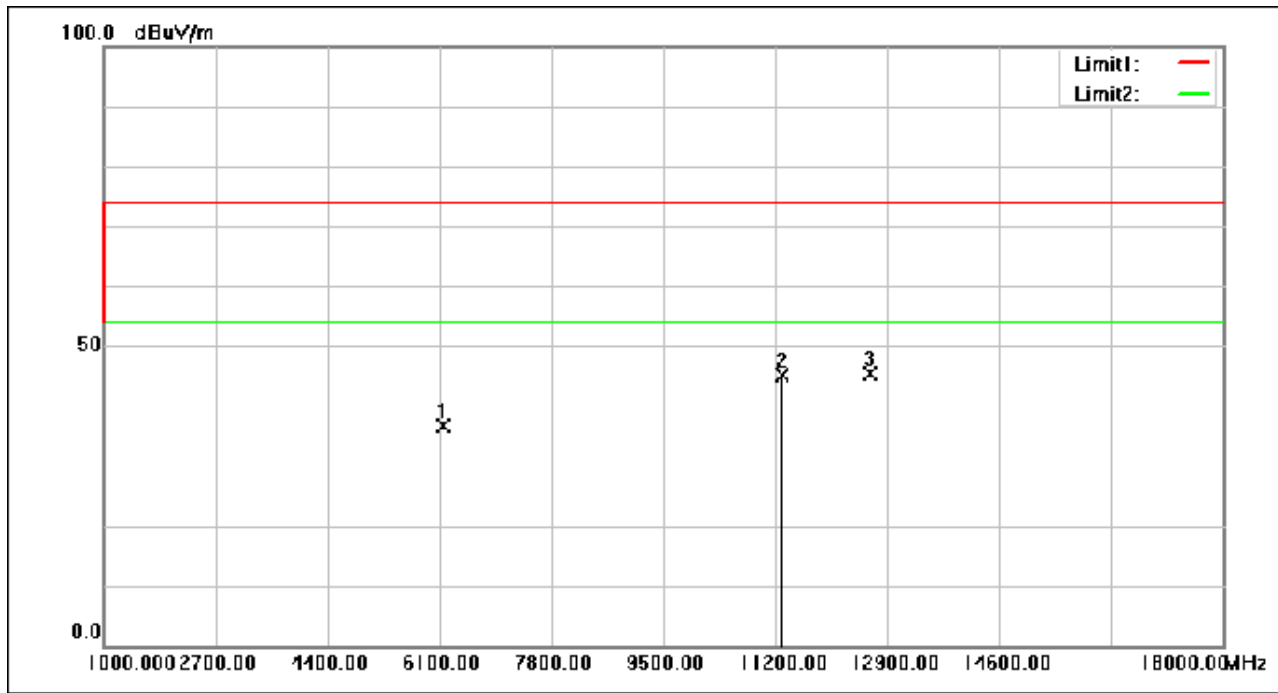
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6151.680	51.93	-15.38	36.55	74.00	-37.45	peak
2	11315.600	52.33	-7.31	45.02	74.00	-28.98	peak
3	12647.720	52.99	-7.51	45.48	74.00	-28.52	peak

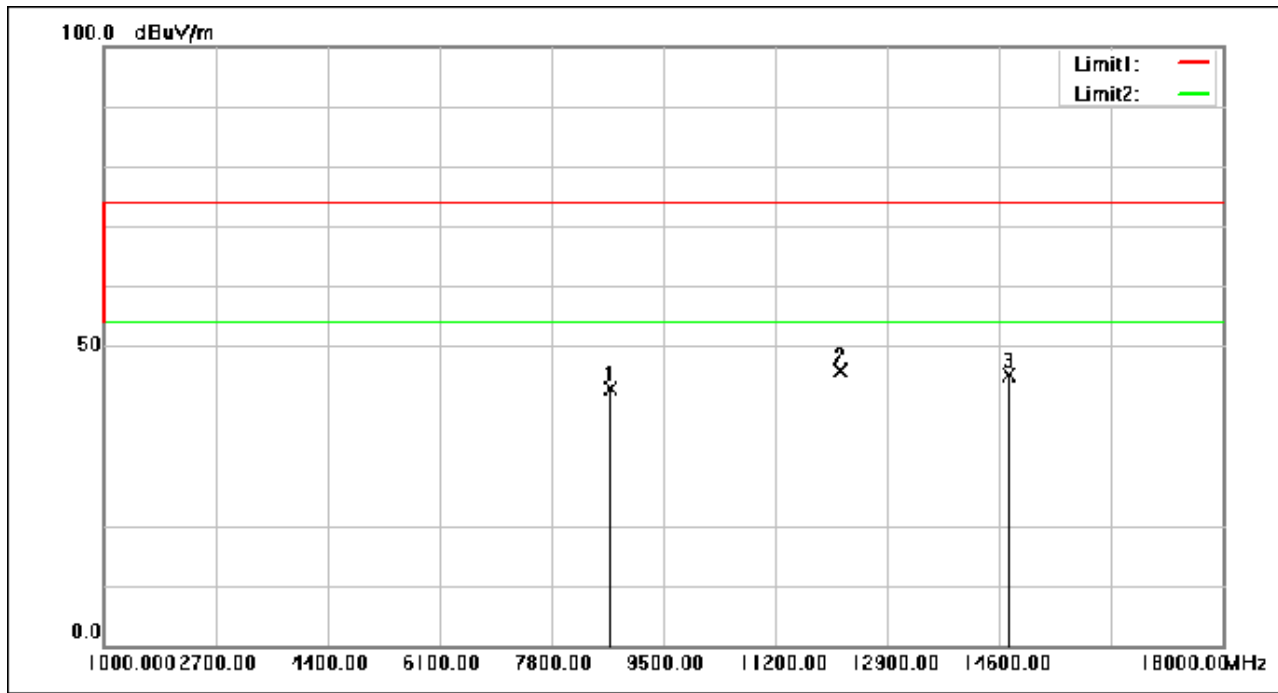
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8710.520	53.55	-10.56	42.99	74.00	-31.01	peak
2	12200.960	53.46	-7.59	45.87	74.00	-28.13	peak
3	14753.000	53.12	-8.03	45.09	74.00	-28.91	peak

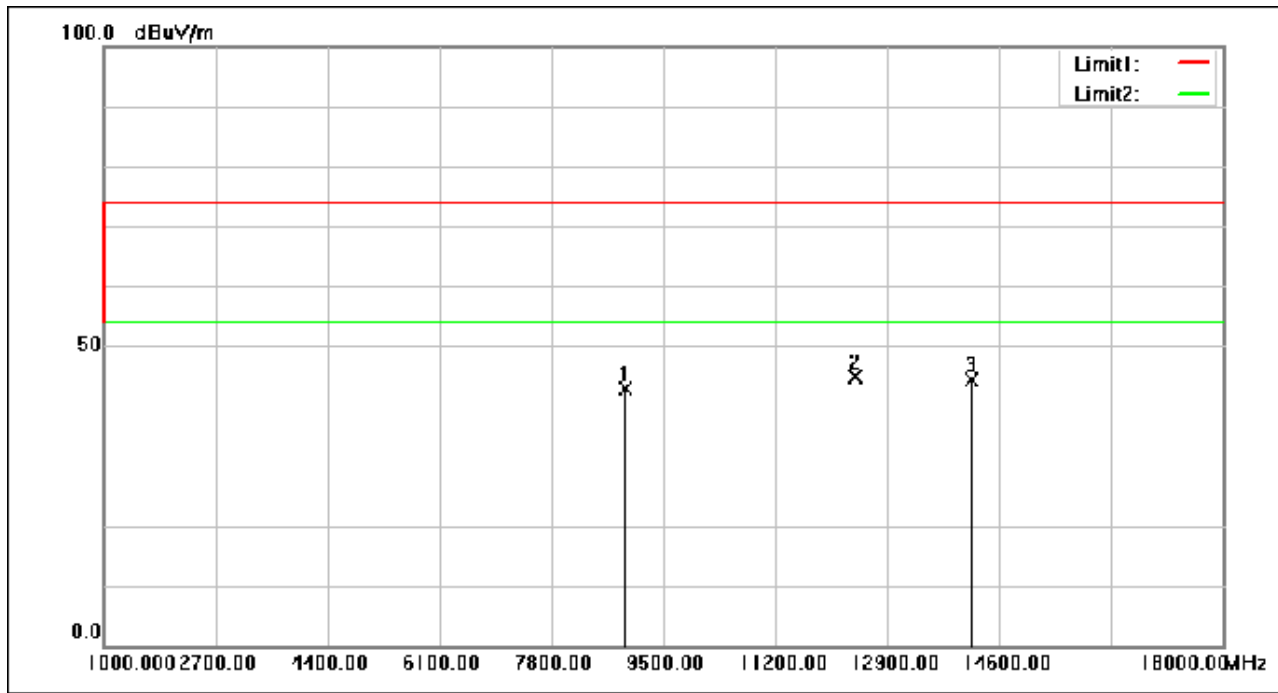
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8923.360	53.04	-10.13	42.91	74.00	-31.09	peak
2	12421.280	52.41	-7.56	44.85	74.00	-29.15	peak
3	14186.560	52.56	-8.19	44.37	74.00	-29.63	peak

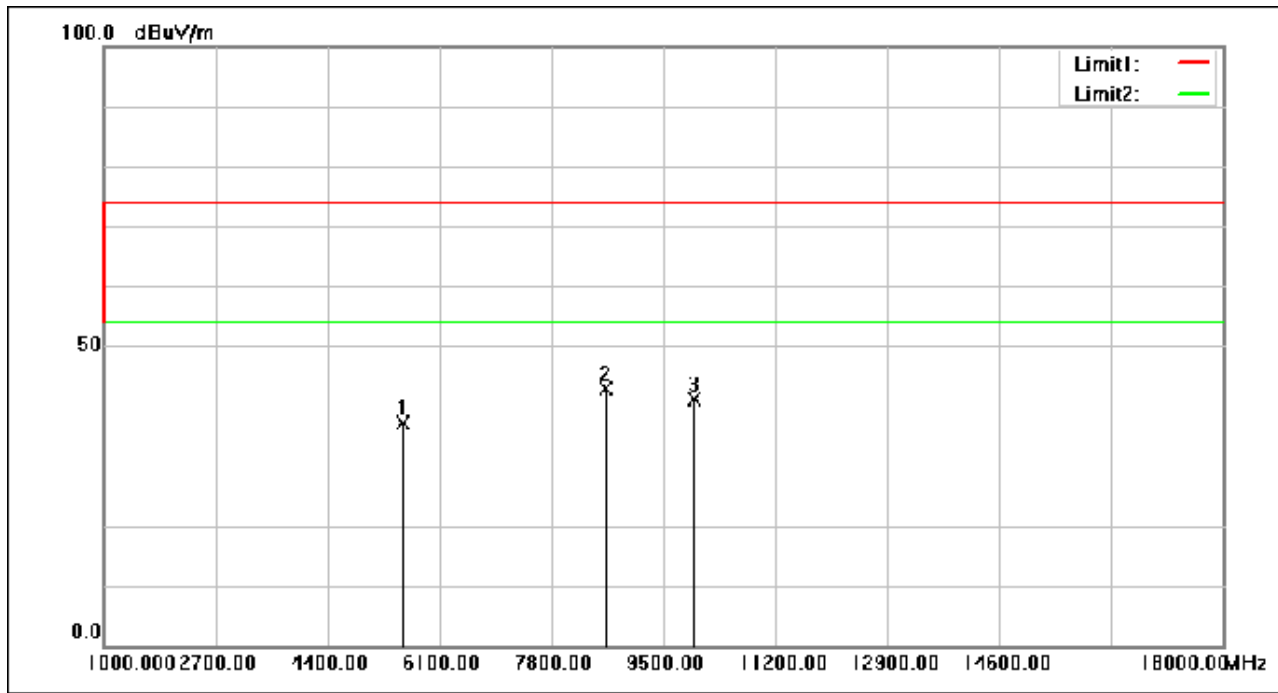
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5540.360	53.97	-16.77	37.20	74.00	-36.80	peak
2	8633.680	53.54	-10.71	42.83	74.00	-31.17	peak
3	9971.920	50.07	-8.97	41.10	74.00	-32.90	peak

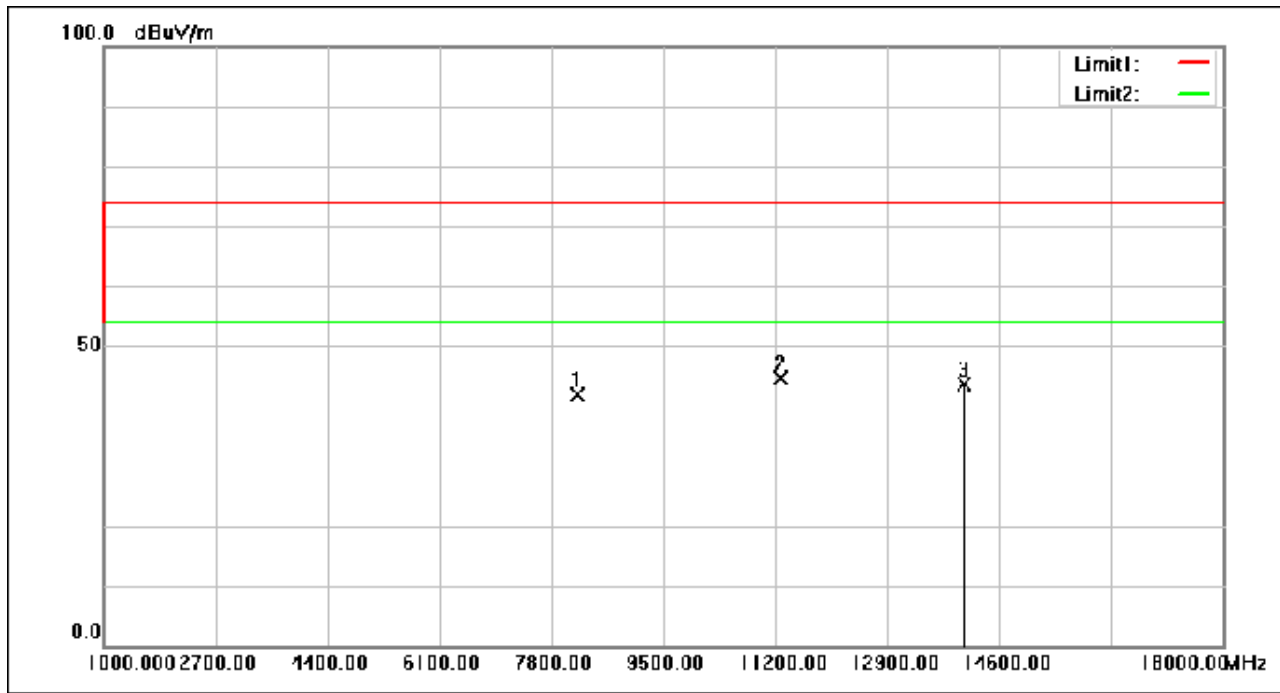
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8197.120	53.30	-11.35	41.95	74.00	-32.05	peak
2	11287.720	51.93	-7.33	44.60	74.00	-29.40	peak
3	14083.880	51.75	-8.15	43.60	74.00	-30.40	peak

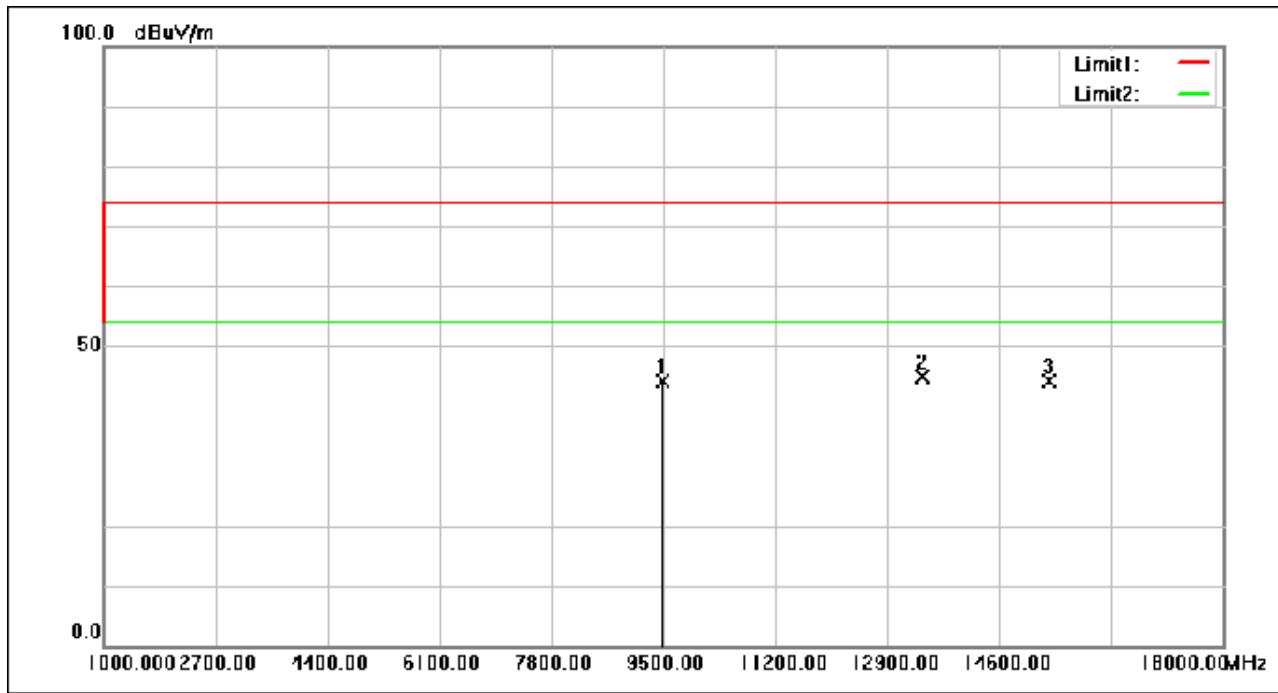
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9495.920	53.74	-9.54	44.20	74.00	-29.80	peak
2	13429.720	52.54	-7.62	44.92	74.00	-29.08	peak
3	15372.480	51.86	-7.78	44.08	74.00	-29.92	peak

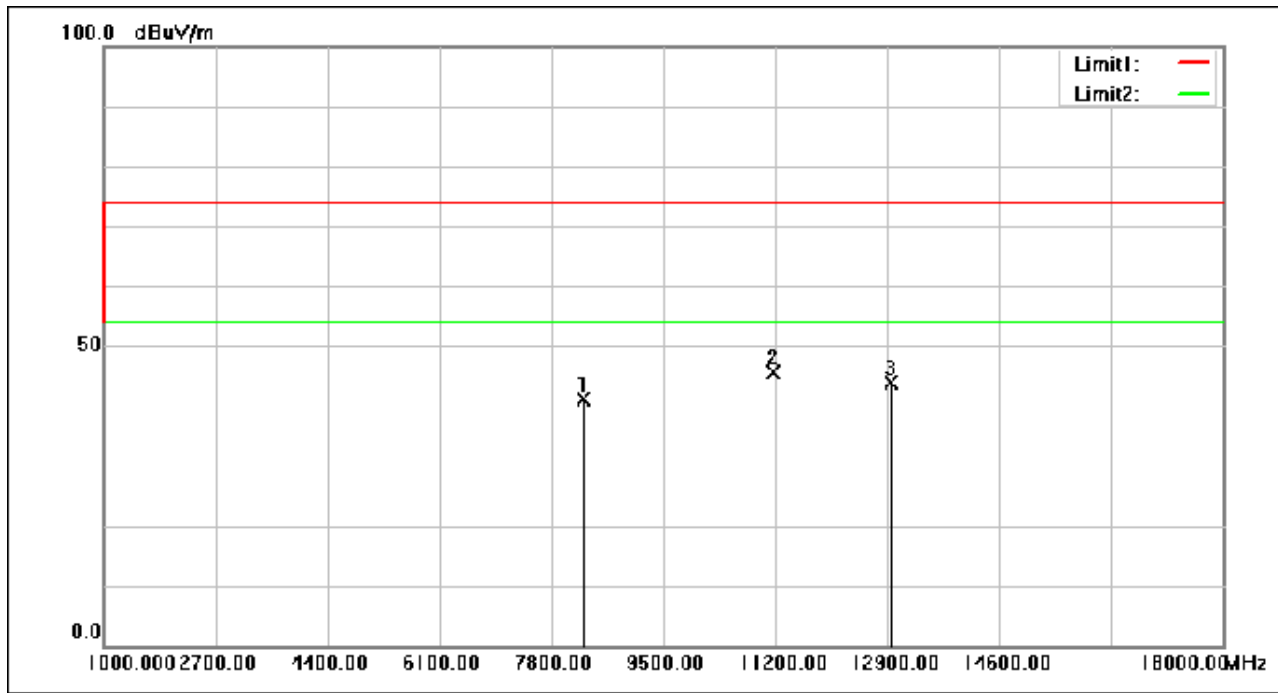
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8308.640	52.38	-11.21	41.17	74.00	-32.83	peak
2	11172.800	53.01	-7.39	45.62	74.00	-28.38	peak
3	12966.640	51.32	-7.47	43.85	74.00	-30.15	peak

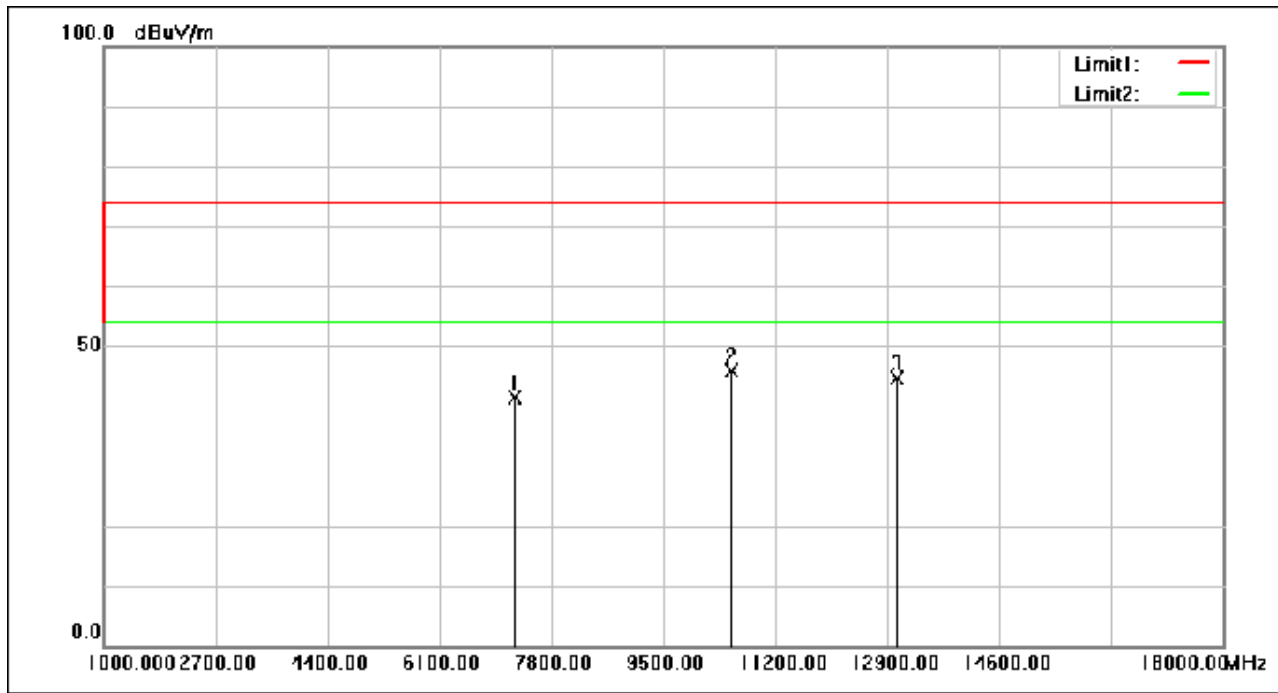
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7245.120	52.99	-11.53	41.46	74.00	-32.54	peak
2	10553.320	53.94	-8.00	45.94	74.00	-28.06	peak
3	13059.120	52.18	-7.48	44.70	74.00	-29.30	peak

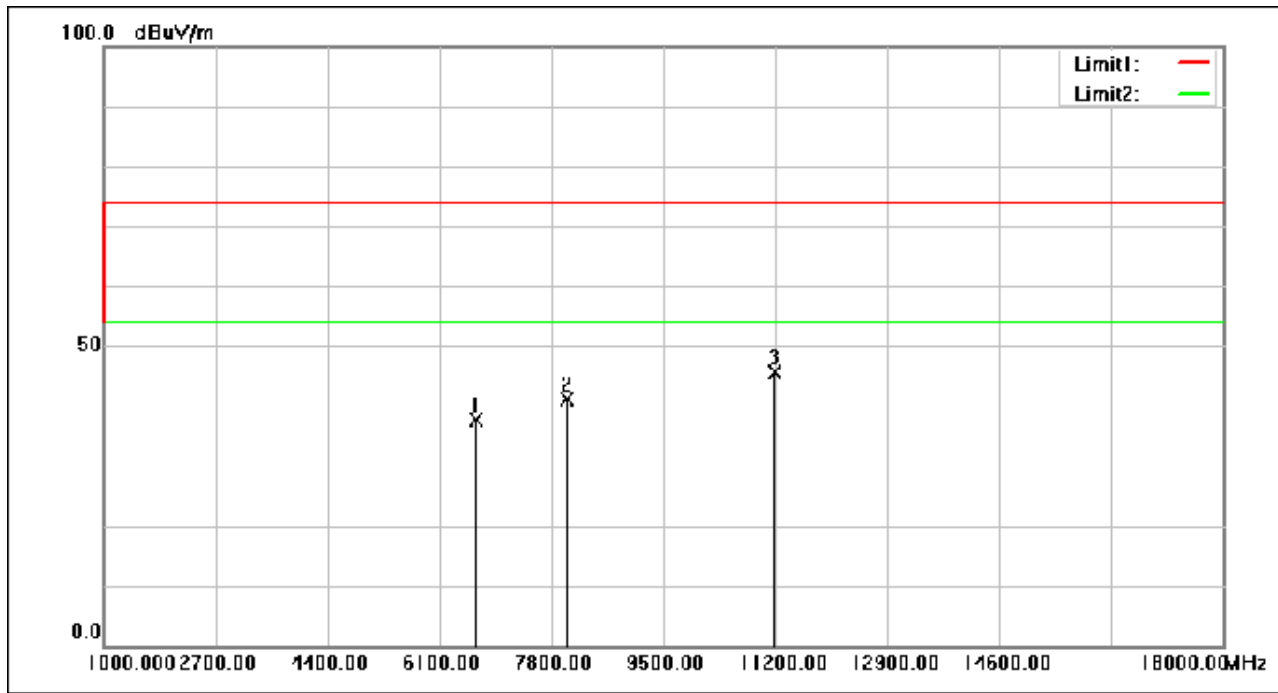
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6672.560	51.37	-13.75	37.62	74.00	-36.38	peak
2	8042.080	52.56	-11.45	41.11	74.00	-32.89	peak
3	11192.520	53.11	-7.38	45.73	74.00	-28.27	peak

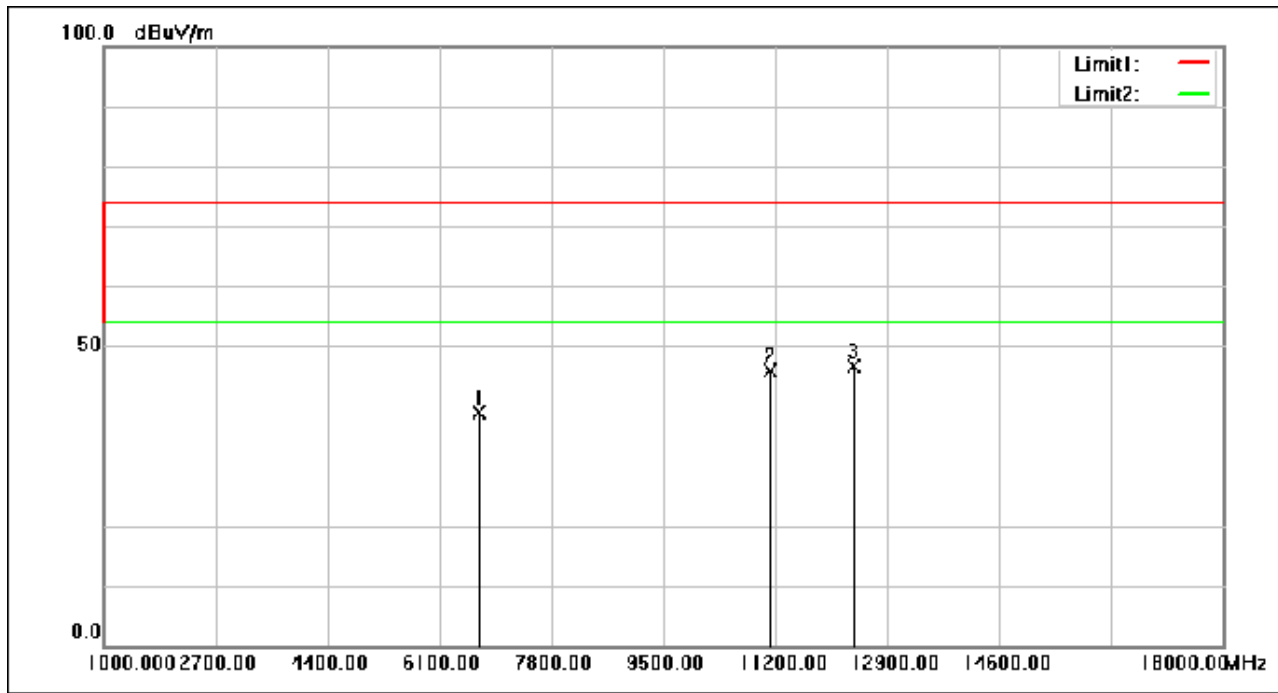
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6698.400	52.52	-13.67	38.85	74.00	-35.15	peak
2	11122.480	53.19	-7.41	45.78	74.00	-28.22	peak
3	12395.440	54.17	-7.56	46.61	74.00	-27.39	peak

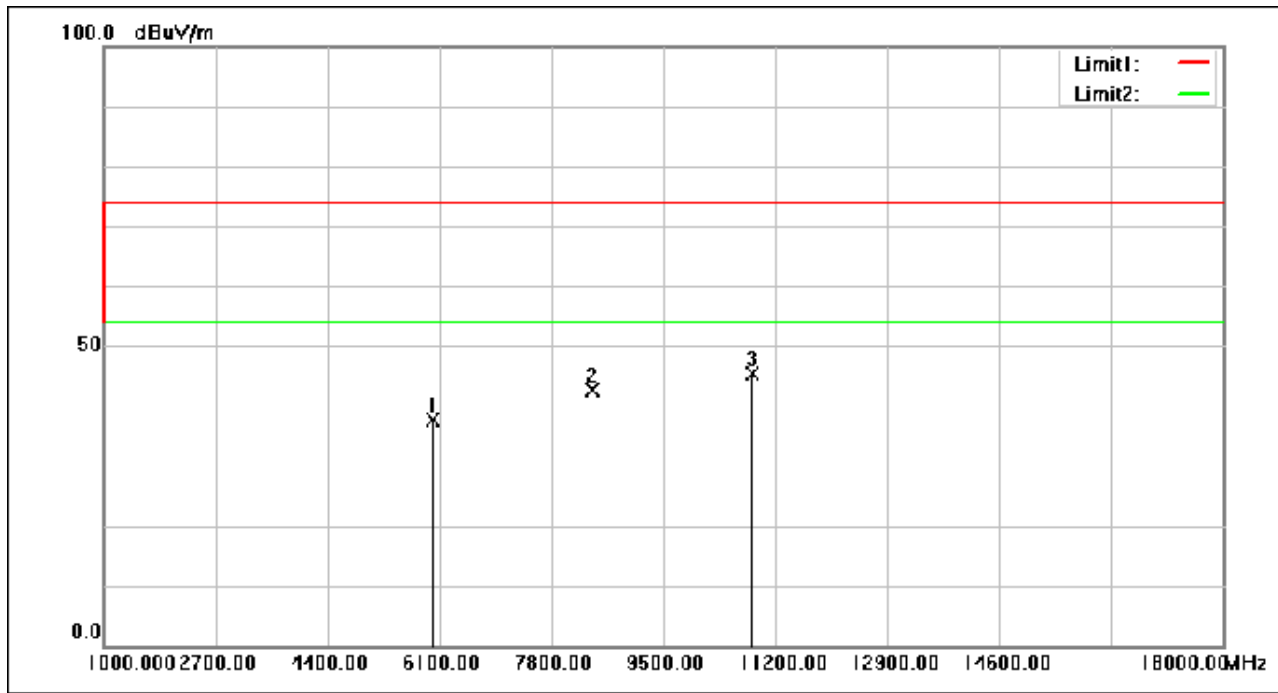
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6012.280	53.36	-15.64	37.72	74.00	-36.28	peak
2	8437.840	53.80	-11.06	42.74	74.00	-31.26	peak
3	10853.200	52.80	-7.47	45.33	74.00	-28.67	peak

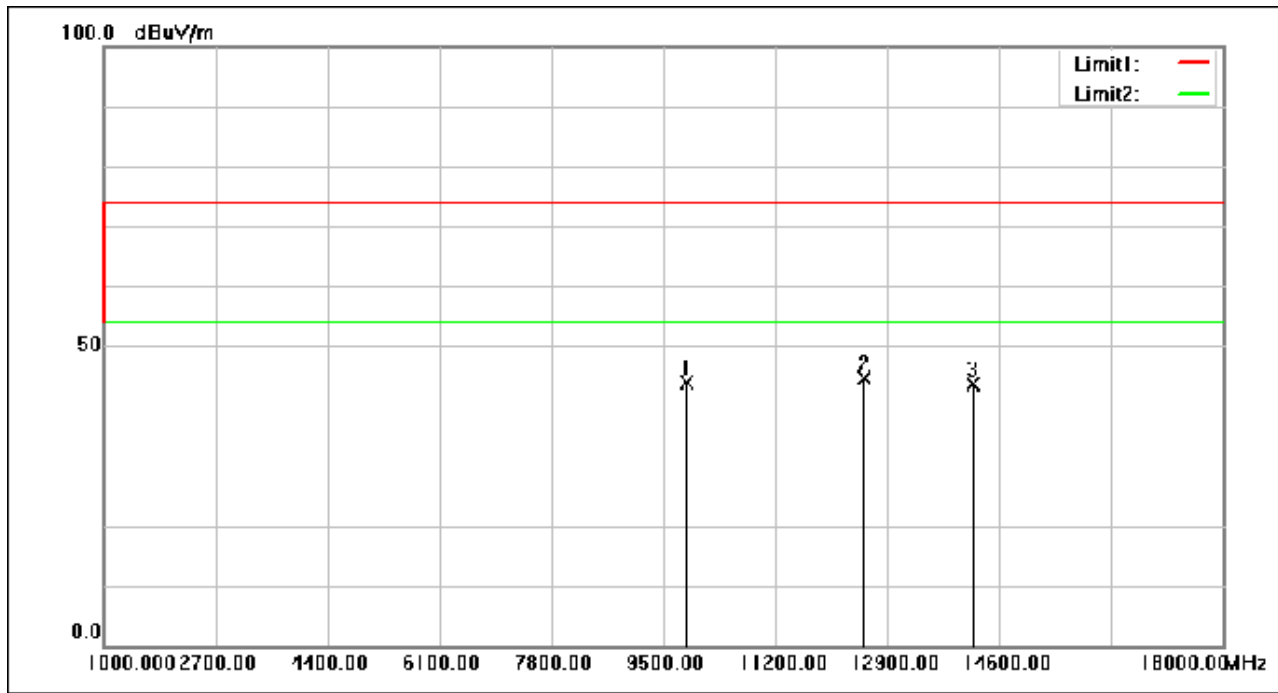
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9860.400	53.01	-9.14	43.87	74.00	-30.13	peak
2	12559.320	52.08	-7.53	44.55	74.00	-29.45	peak
3	14222.600	51.89	-8.21	43.68	74.00	-30.32	peak

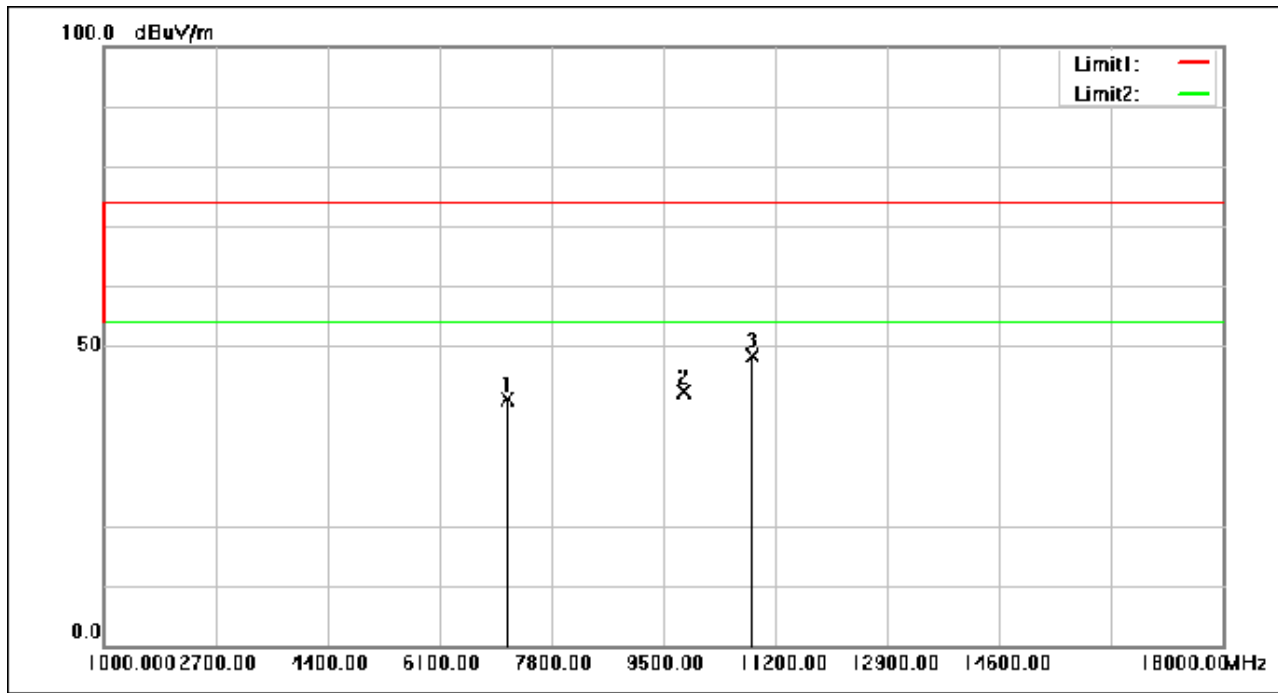
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7151.280	52.99	-11.91	41.08	74.00	-32.92	peak
2	9818.920	51.63	-9.19	42.44	74.00	-31.56	peak
3	10846.400	55.74	-7.47	48.27	74.00	-25.73	peak

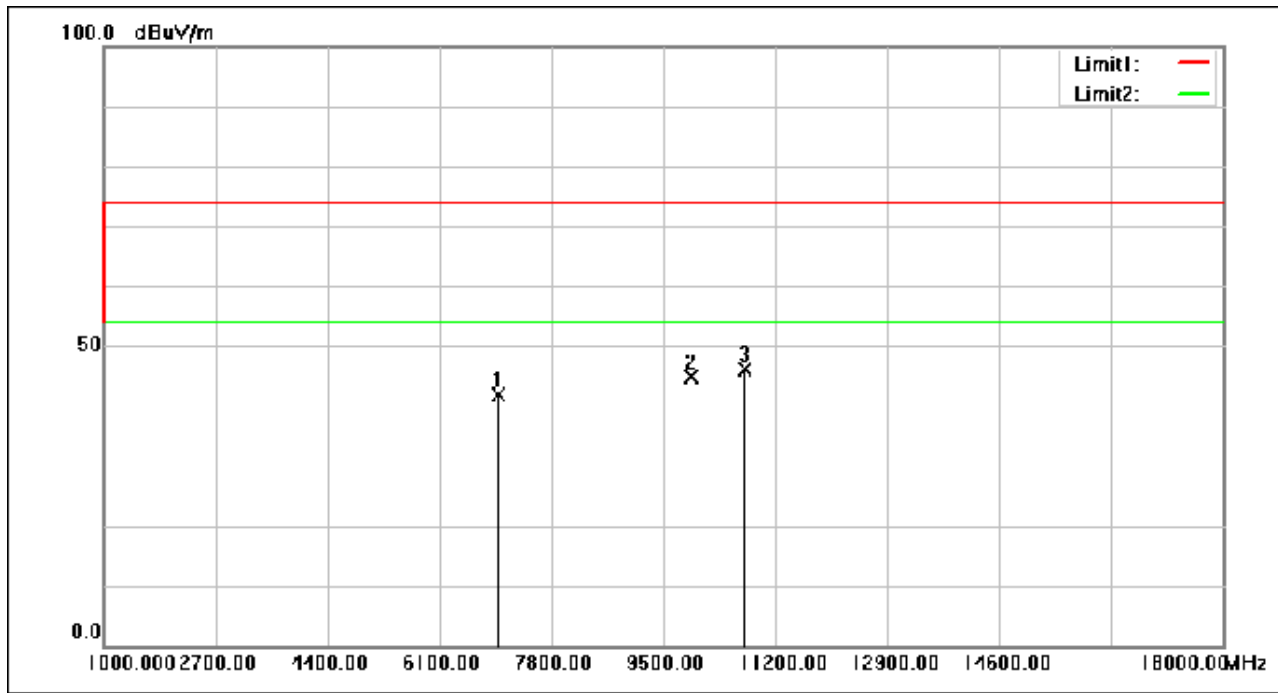
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7017.320	54.44	-12.46	41.98	74.00	-32.02	peak
2	9939.960	53.94	-9.03	44.91	74.00	-29.09	peak
3	10728.760	53.92	-7.67	46.25	74.00	-27.75	peak

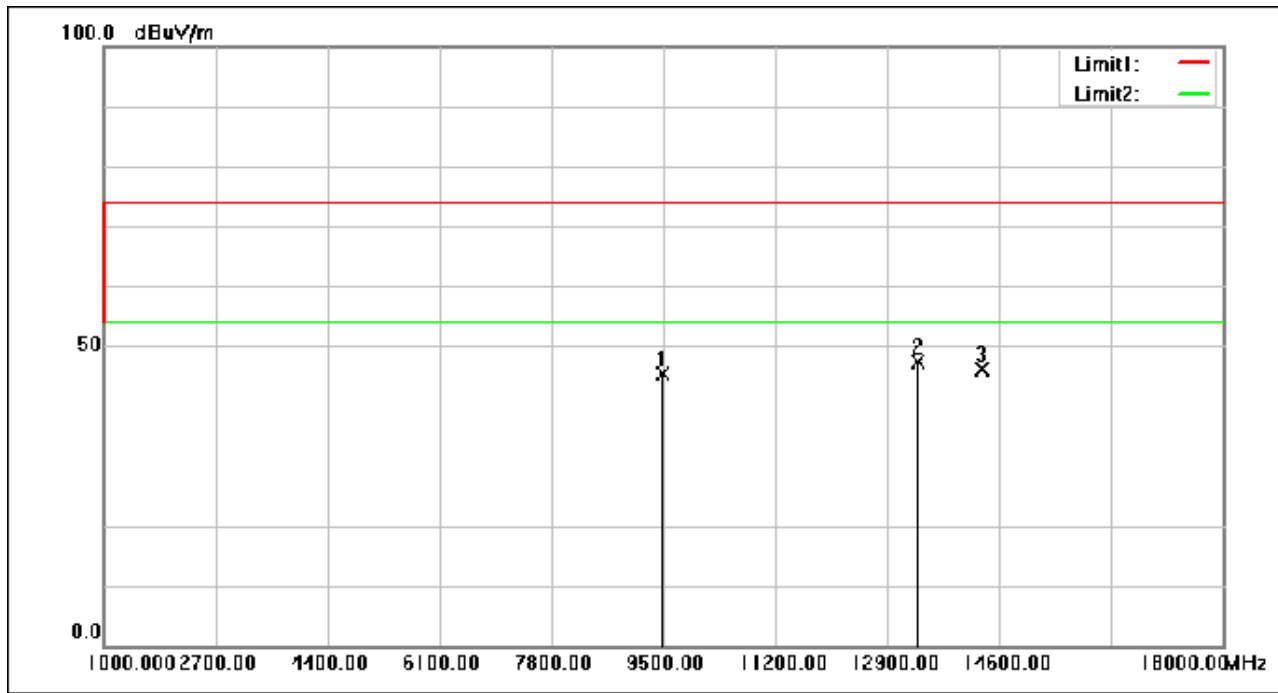
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9484.360	54.90	-9.54	45.36	74.00	-28.64	peak
2	13360.360	54.94	-7.59	47.35	74.00	-26.65	peak
3	14330.040	54.49	-8.24	46.25	74.00	-27.75	peak

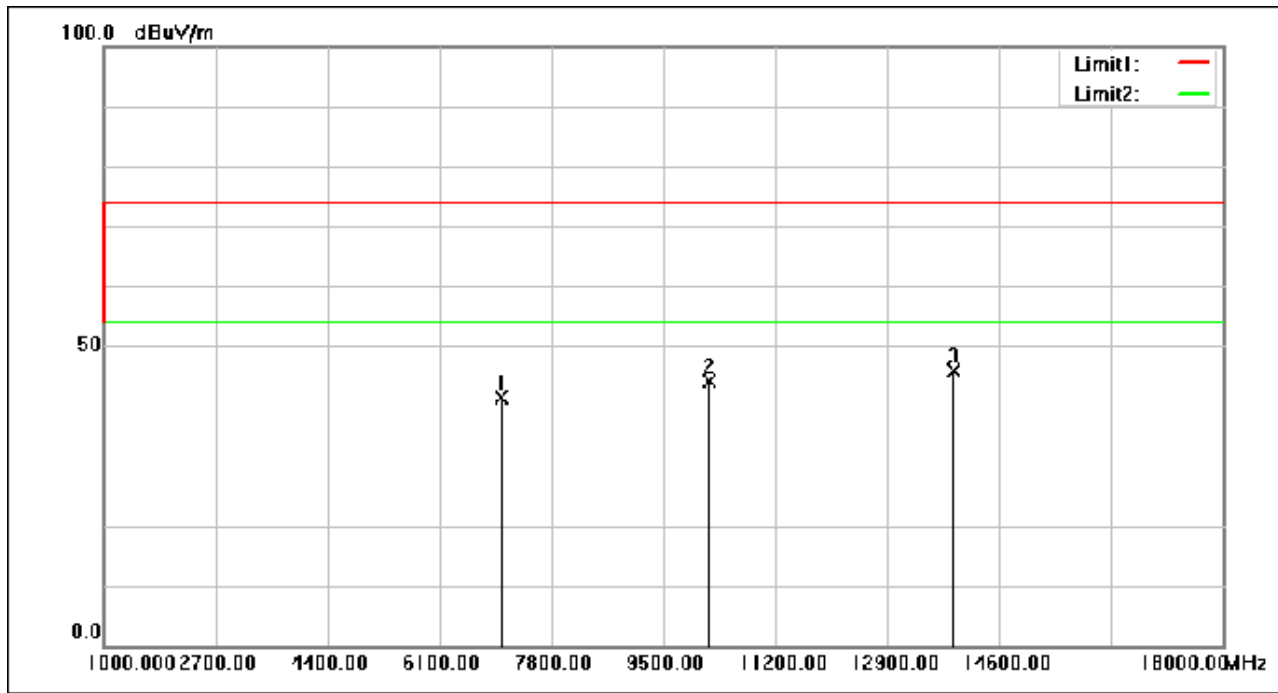
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7050.640	53.62	-12.32	41.30	74.00	-32.70	peak
2	10197.000	52.85	-8.61	44.24	74.00	-29.76	peak
3	13908.440	53.82	-8.04	45.78	74.00	-28.22	peak

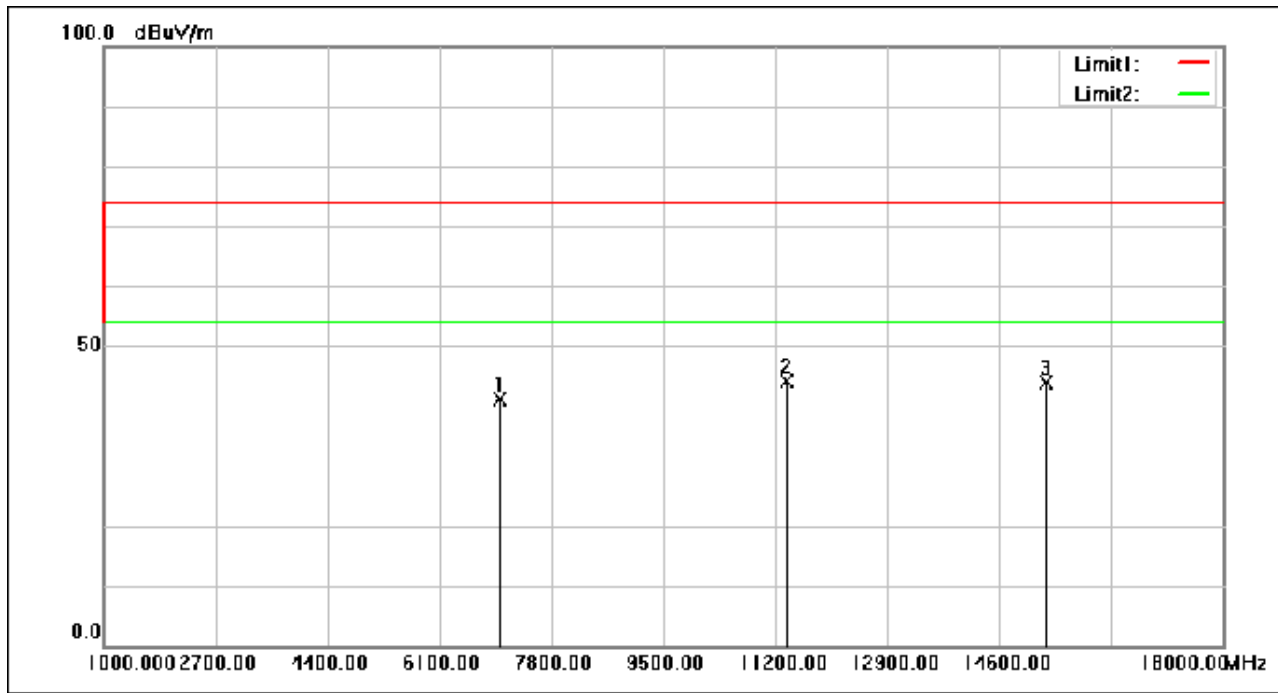
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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7018.680	53.68	-12.45	41.23	74.00	-32.77	peak
2	11372.040	51.47	-7.28	44.19	74.00	-29.81	peak
3	15317.400	51.70	-7.77	43.93	74.00	-30.07	peak

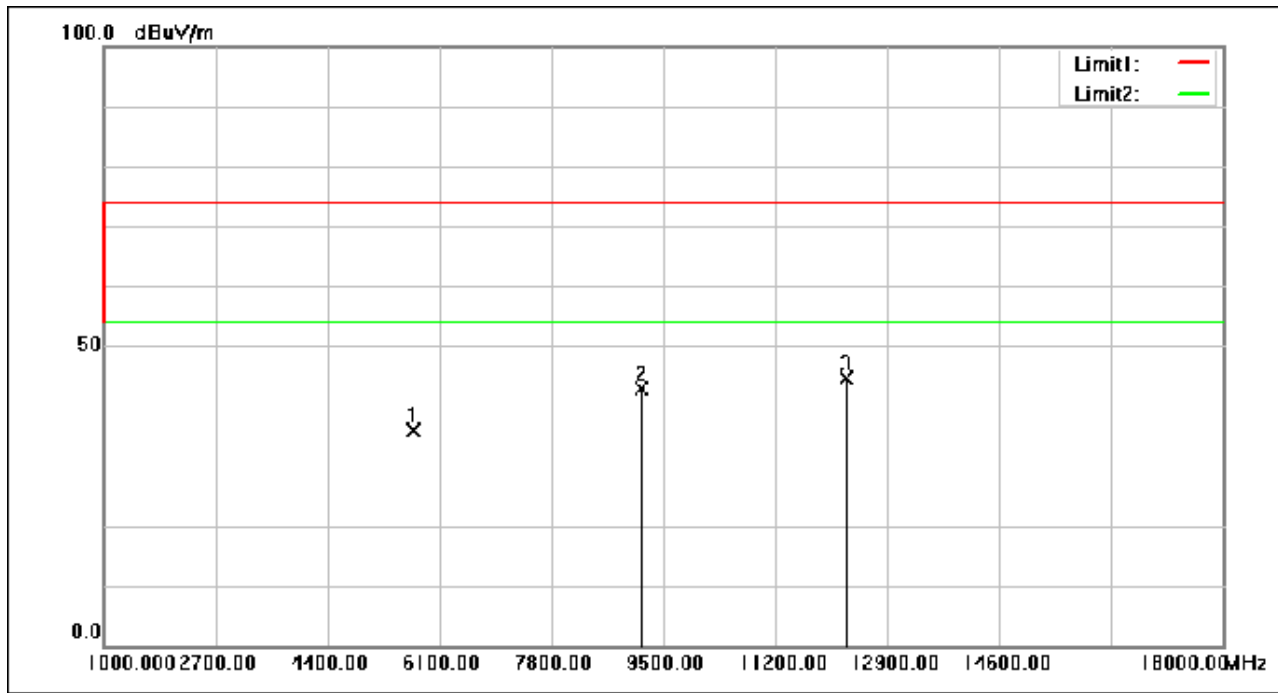
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5714.440	52.33	-16.54	35.79	74.00	-38.21	peak
2	9180.400	52.80	-9.81	42.99	74.00	-31.01	peak
3	12278.480	52.31	-7.57	44.74	74.00	-29.26	peak

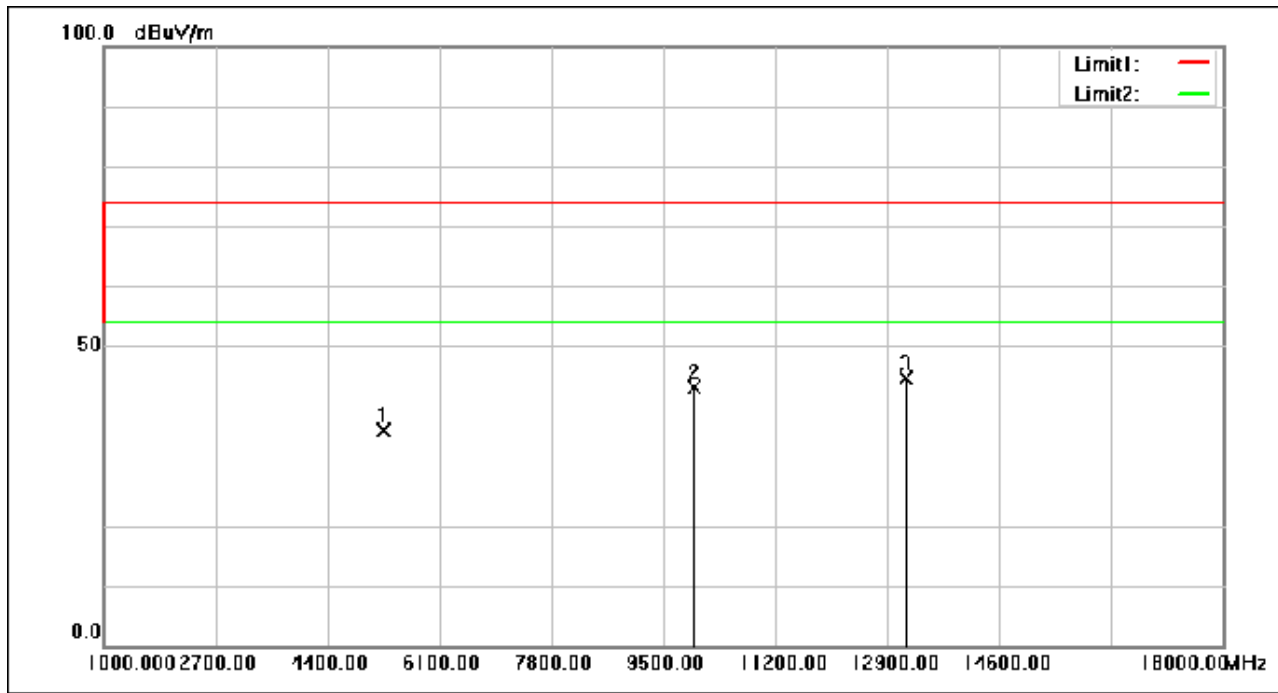
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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5260.880	52.91	-16.98	35.93	74.00	-38.07	peak
2	9970.560	52.18	-8.98	43.20	74.00	-30.80	peak
3	13190.360	52.25	-7.54	44.71	74.00	-29.29	peak

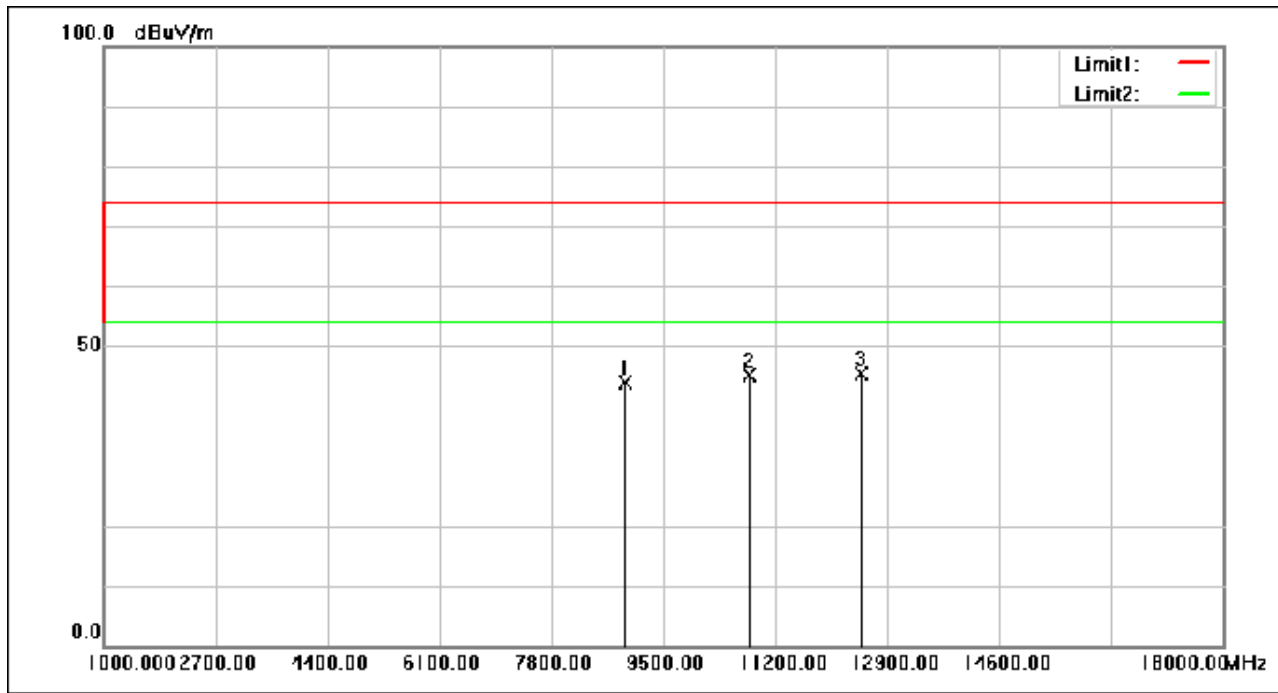
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Test Mode: 08; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8938.320	53.97	-10.10	43.87	74.00	-30.13	peak
2	10816.480	52.58	-7.51	45.07	74.00	-28.93	peak
3	12525.320	52.79	-7.53	45.26	74.00	-28.74	peak

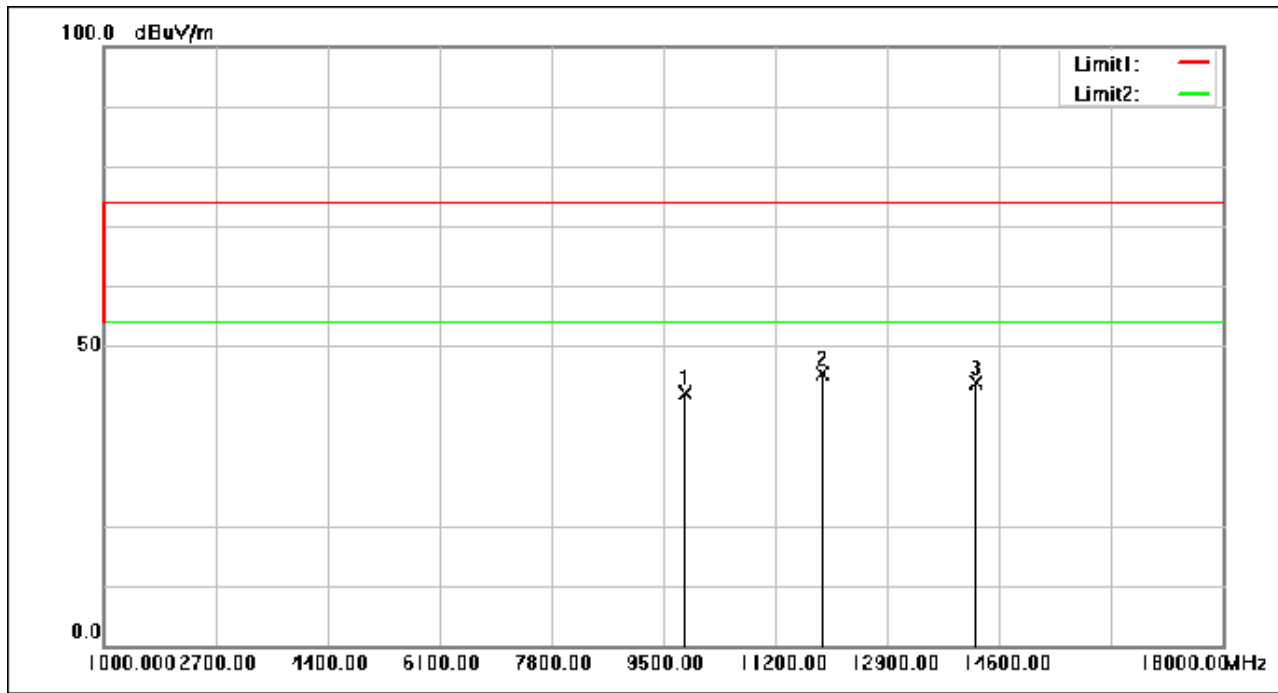
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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9831.840	51.34	-9.18	42.16	74.00	-31.84	peak
2	11926.920	53.05	-7.58	45.47	74.00	-28.53	peak
3	14246.400	52.04	-8.22	43.82	74.00	-30.18	peak

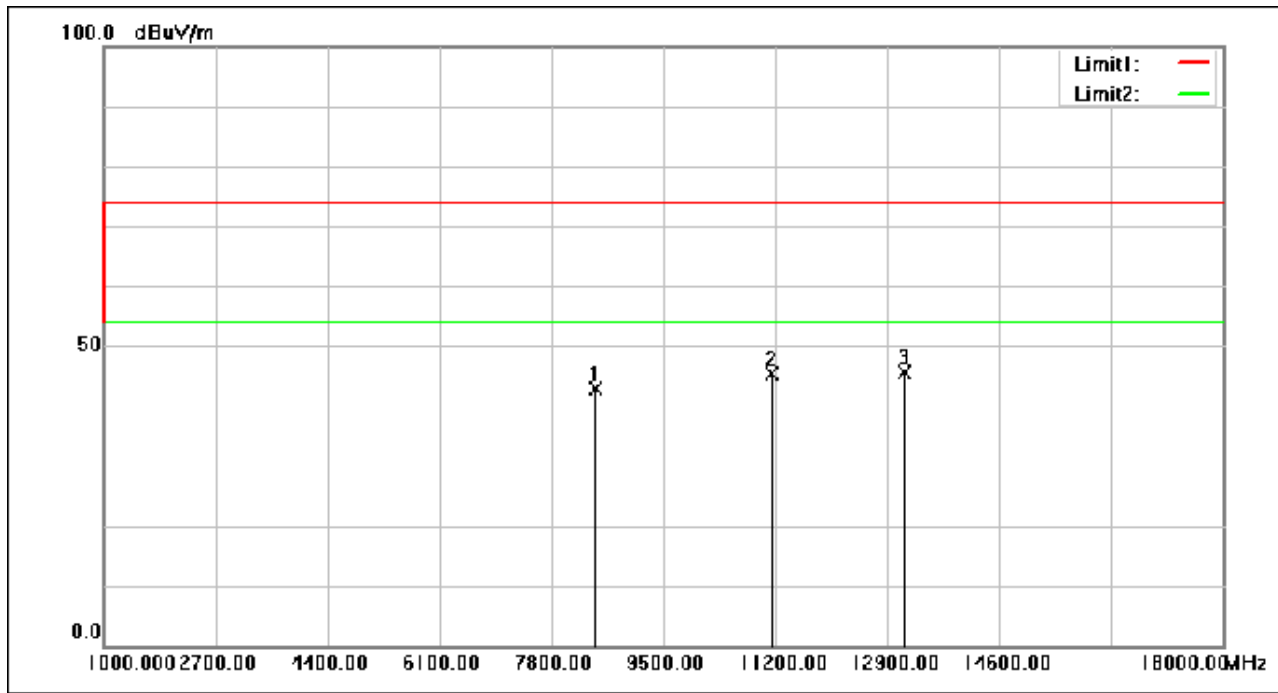
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8465.040	53.98	-11.02	42.96	74.00	-31.04	peak
2	11150.360	52.71	-7.40	45.31	74.00	-28.69	peak
3	13165.880	53.22	-7.53	45.69	74.00	-28.31	peak

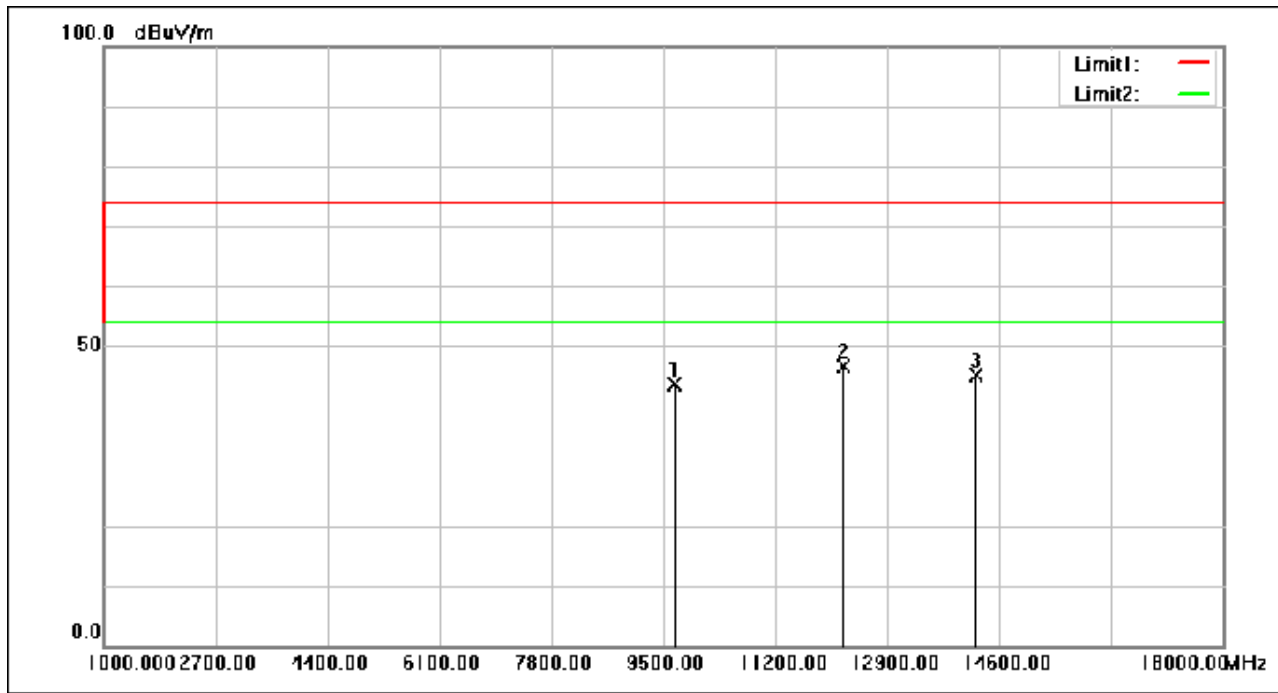
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9684.960	52.90	-9.34	43.56	74.00	-30.44	peak
2	12238.360	54.15	-7.58	46.57	74.00	-27.43	peak
3	14251.160	53.32	-8.22	45.10	74.00	-28.90	peak

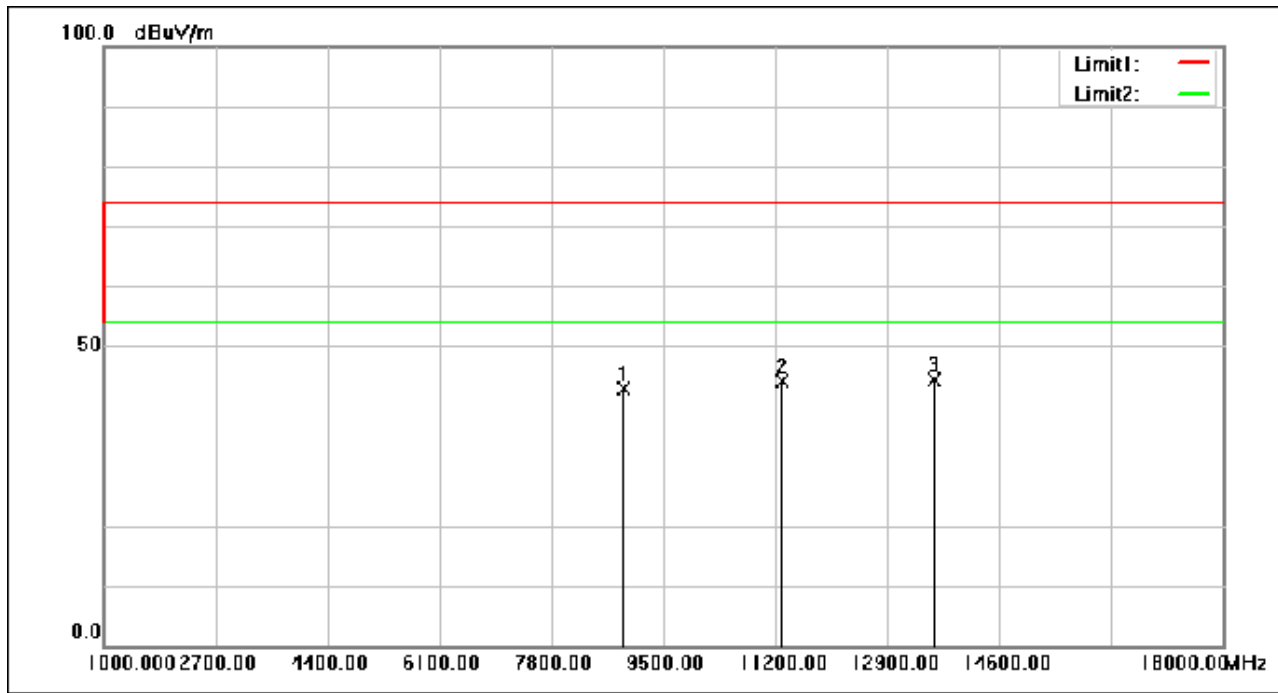
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8915.200	52.96	-10.15	42.81	74.00	-31.19	peak
2	11306.080	51.38	-7.32	44.06	74.00	-29.94	peak
3	13628.960	52.18	-7.77	44.41	74.00	-29.59	peak

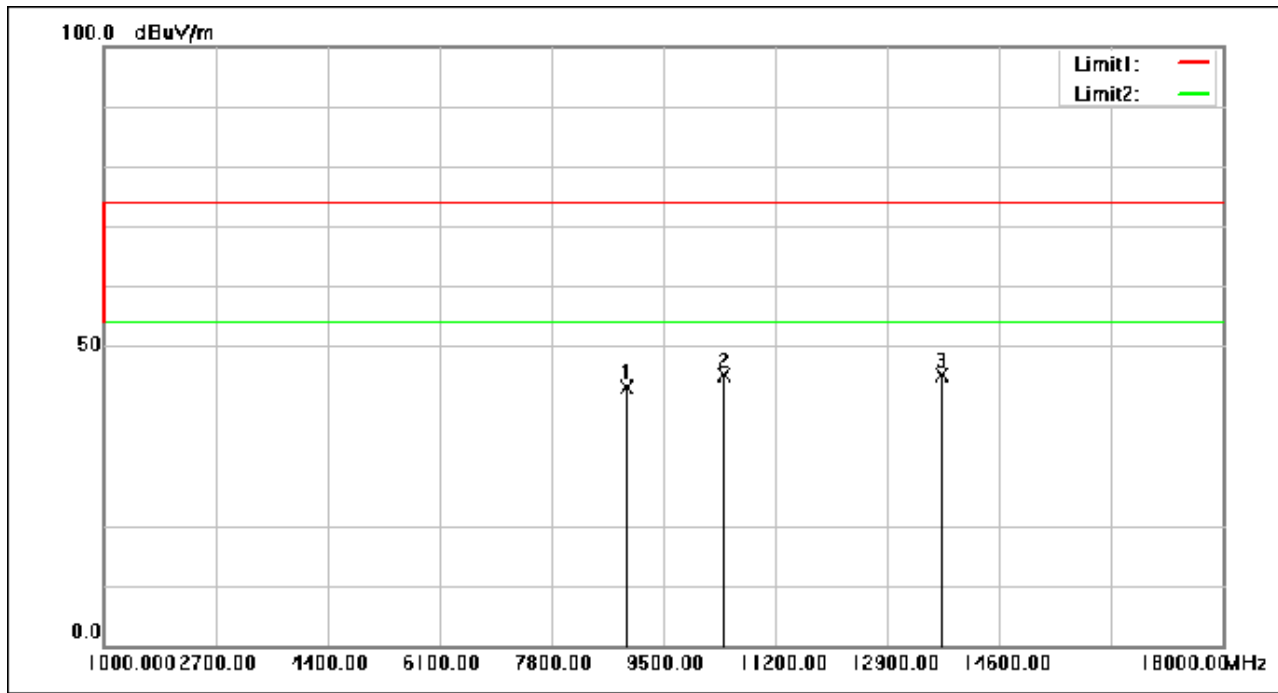
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8939.680	53.27	-10.10	43.17	74.00	-30.83	peak
2	10421.400	53.34	-8.23	45.11	74.00	-28.89	peak
3	13739.120	53.13	-7.88	45.25	74.00	-28.75	peak

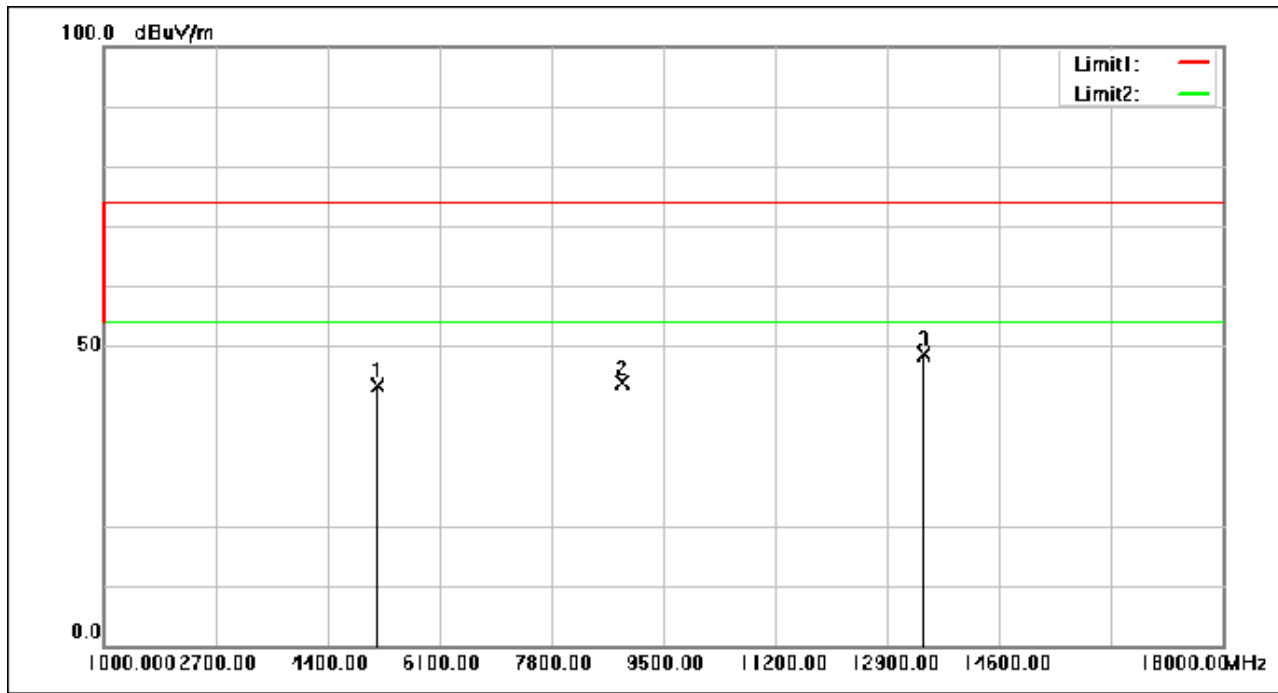
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5158.880	60.51	-17.06	43.45	74.00	-30.55	peak
2	8873.720	54.05	-10.23	43.82	74.00	-30.18	peak
3	13449.440	56.18	-7.63	48.55	74.00	-25.45	peak

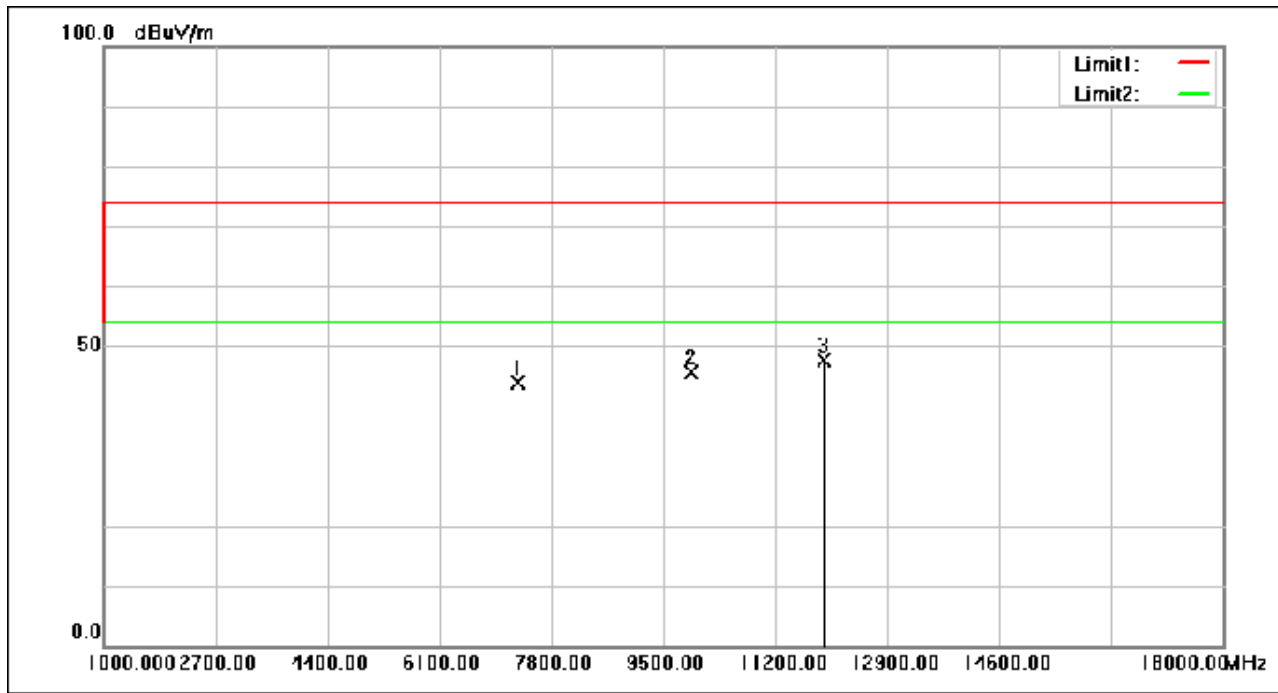
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7294.080	55.18	-11.33	43.85	74.00	-30.15	peak
2	9924.320	54.59	-9.04	45.55	74.00	-28.45	peak
3	11935.080	55.17	-7.58	47.59	74.00	-26.41	peak

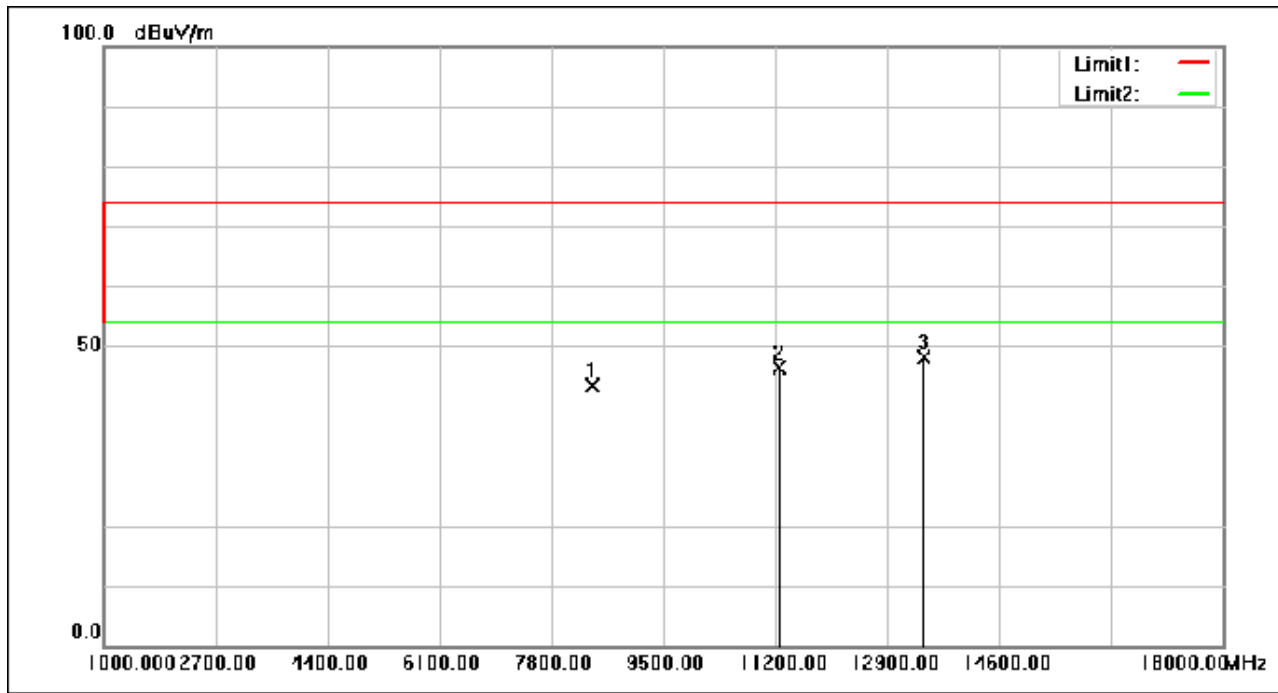
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8438.520	54.42	-11.06	43.36	74.00	-30.64	peak
2	11252.360	53.76	-7.35	46.41	74.00	-27.59	peak
3	13463.720	55.86	-7.64	48.22	74.00	-25.78	peak

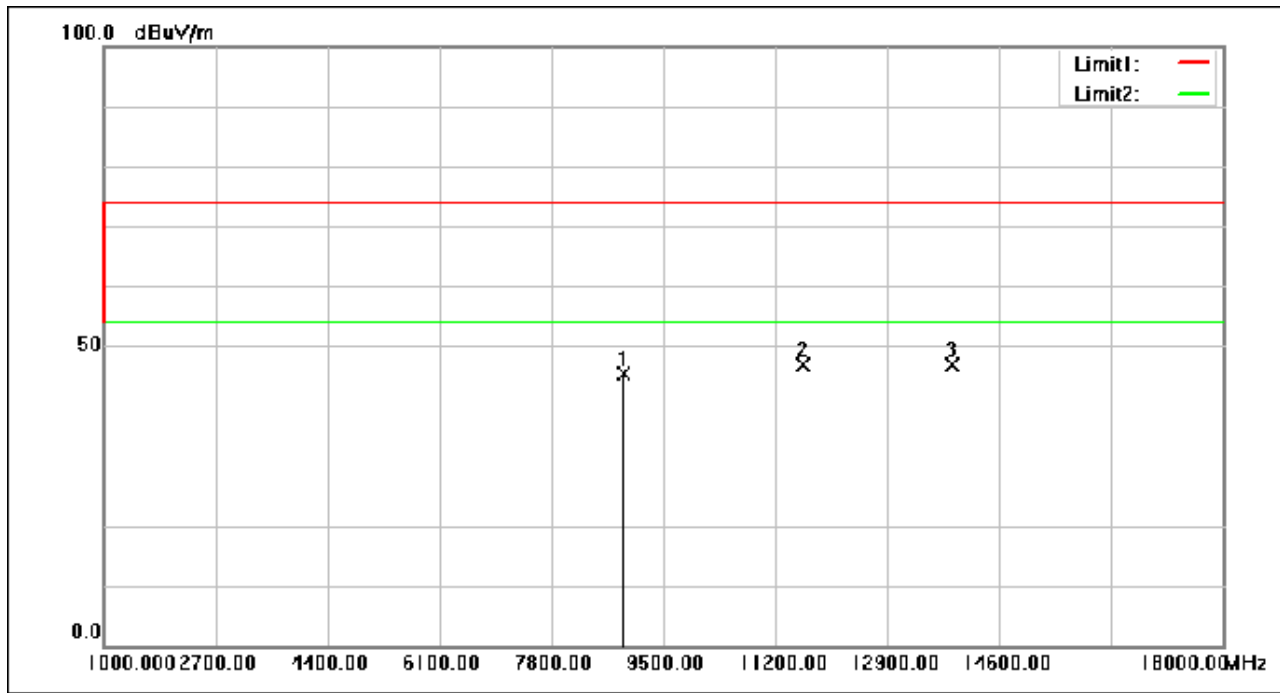
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8907.040	55.43	-10.16	45.27	74.00	-28.73	peak
2	11633.840	54.29	-7.33	46.96	74.00	-27.04	peak
3	13892.120	54.82	-8.02	46.80	74.00	-27.20	peak

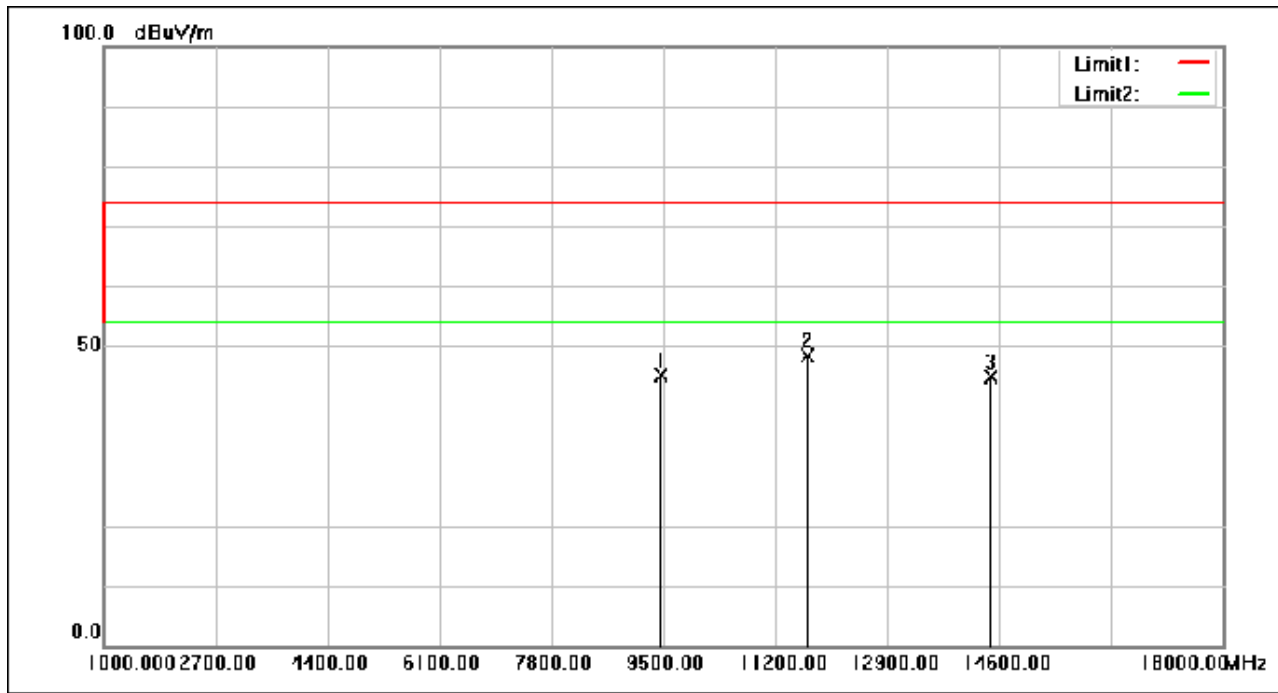
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Test Mode: 08; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9476.880	54.57	-9.55	45.02	74.00	-28.98	peak
2	11705.240	55.78	-7.38	48.40	74.00	-25.60	peak
3	14469.440	53.29	-8.30	44.99	74.00	-29.01	peak

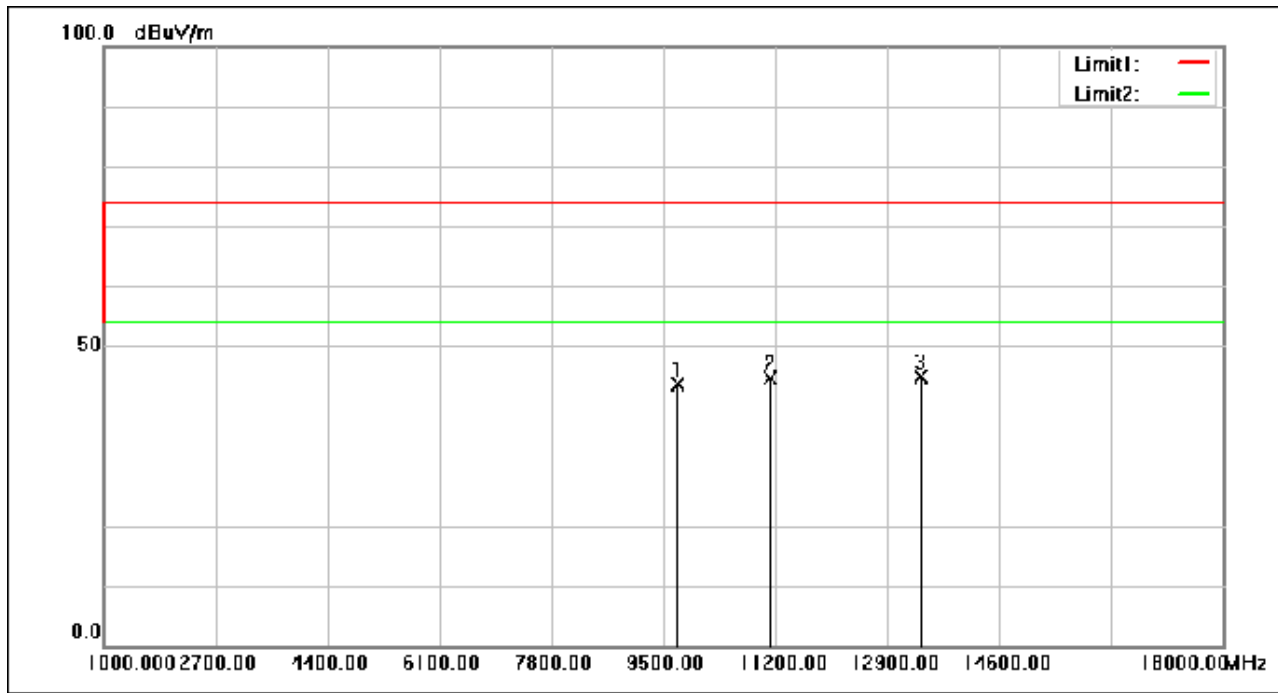
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9729.840	52.86	-9.29	43.57	74.00	-30.43	peak
2	11127.240	52.07	-7.42	44.65	74.00	-29.35	peak
3	13413.400	52.60	-7.62	44.98	74.00	-29.02	peak

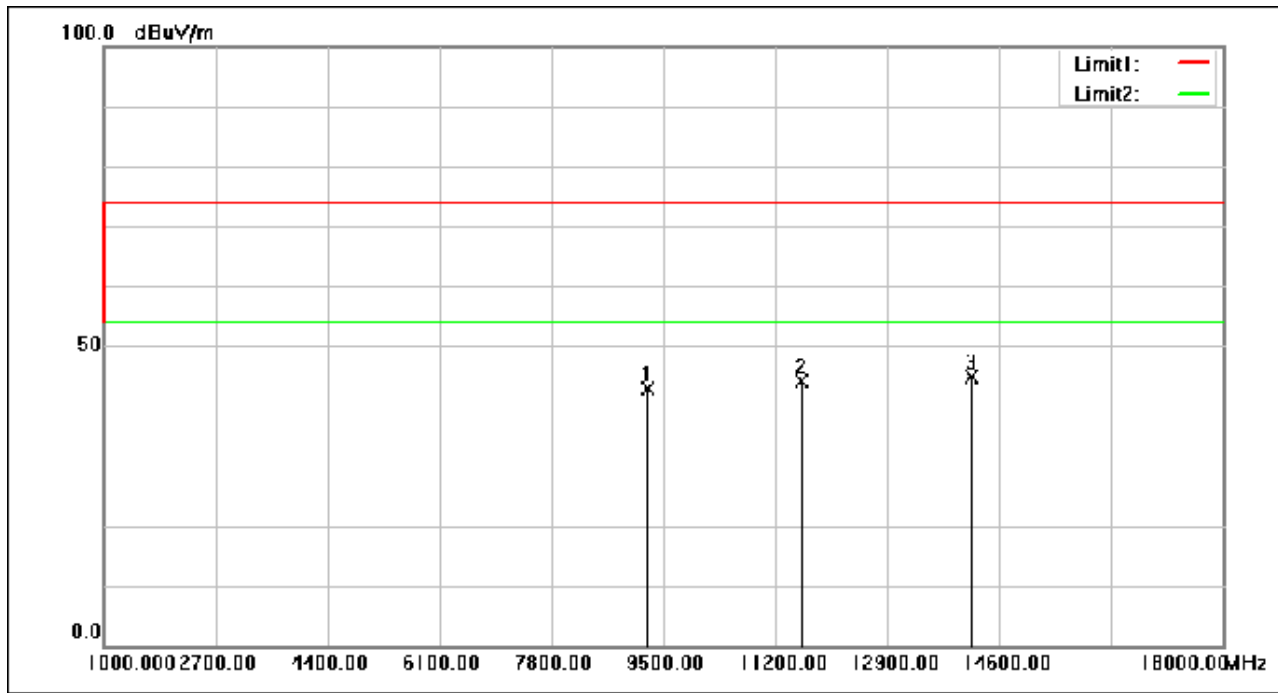
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9272.200	52.51	-9.73	42.78	74.00	-31.22	peak
2	11591.000	51.54	-7.29	44.25	74.00	-29.75	peak
3	14178.400	53.17	-8.19	44.98	74.00	-29.02	peak

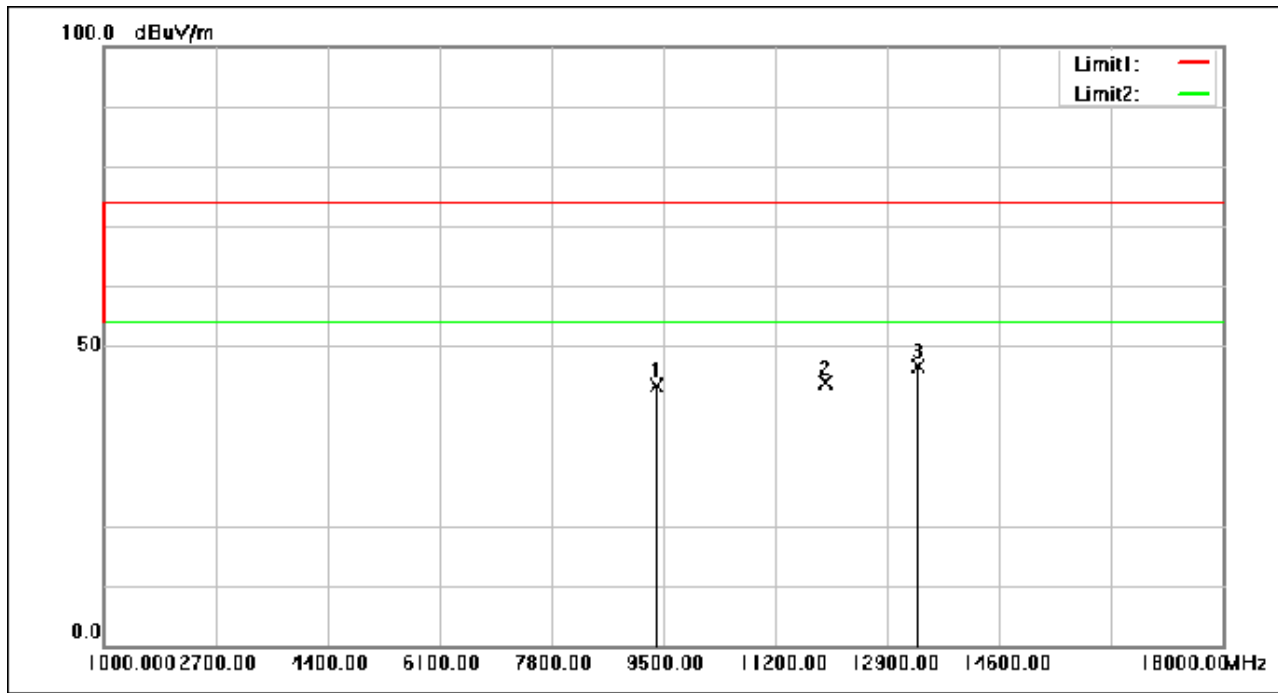
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9408.200	53.02	-9.61	43.41	74.00	-30.59	peak
2	11979.960	51.57	-7.61	43.96	74.00	-30.04	peak
3	13372.600	54.27	-7.60	46.67	74.00	-27.33	peak

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7.10 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3M

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

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

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

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

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: °C

Humidity: % RH

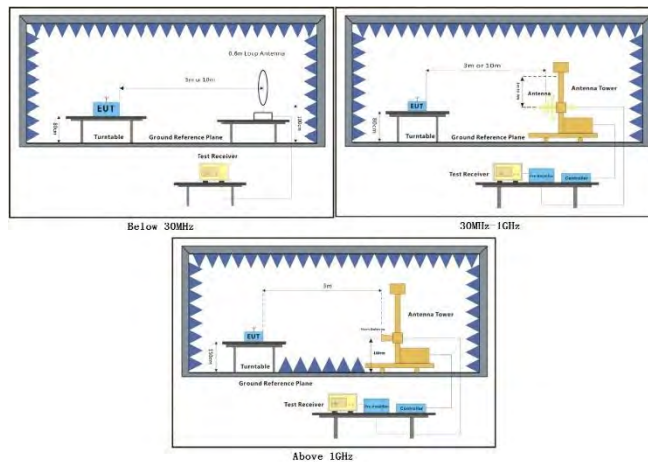
Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is

		recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

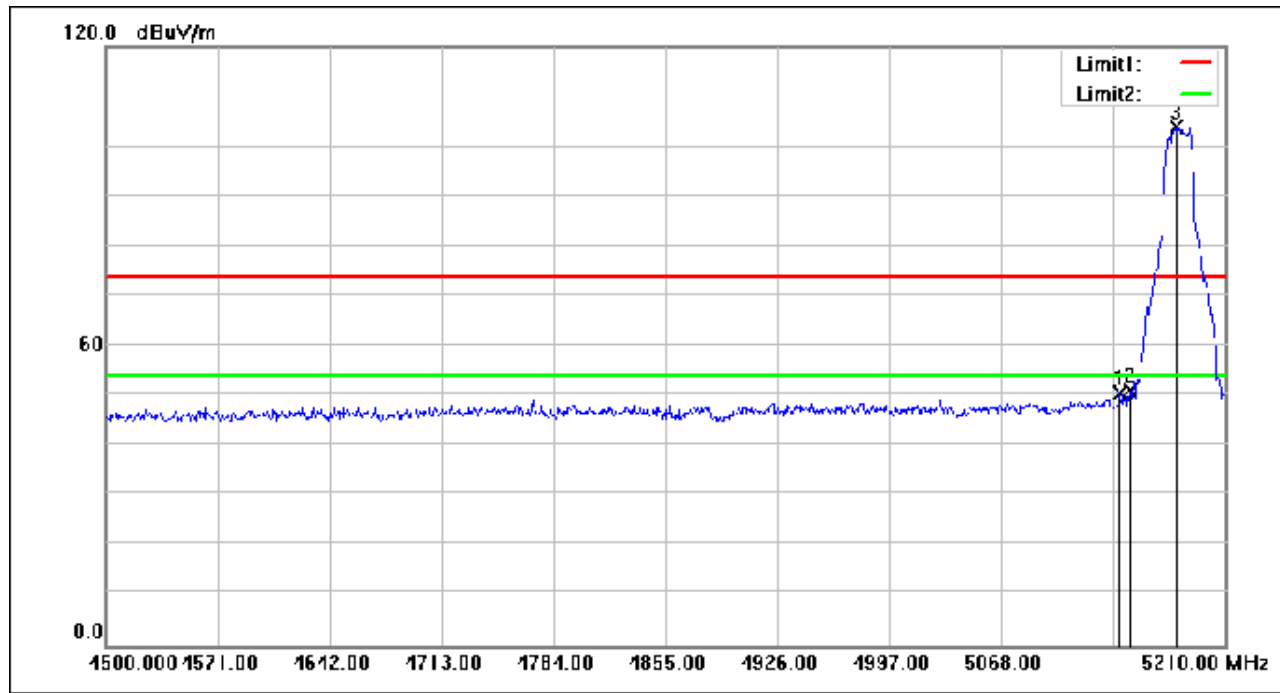
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.260	67.53	-17.09	50.44	74.00	-23.56	peak
2	5150.000	68.26	-17.07	51.19	74.00	-22.81	peak
3	5179.470	120.98	-17.04	103.94	74.00	29.94	peak

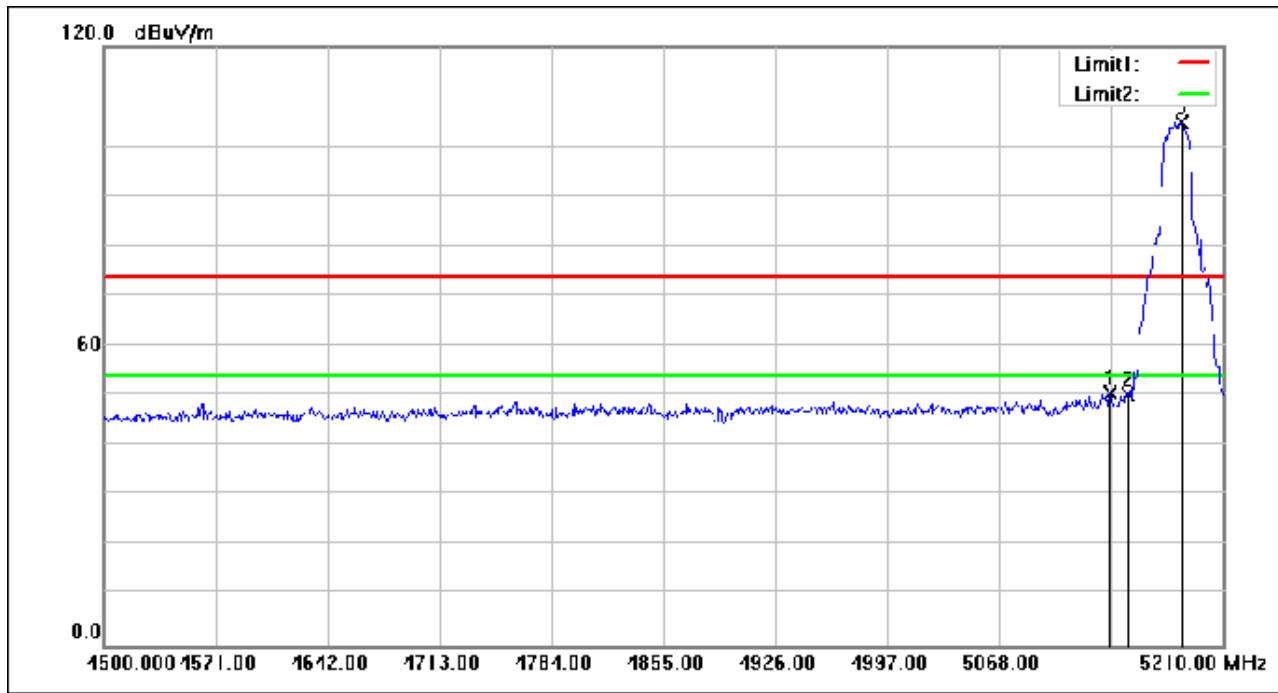
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5138.290	67.55	-17.10	50.45	74.00	-23.55	peak
2	5150.000	67.45	-17.07	50.38	74.00	-23.62	peak
3	5183.730	122.02	-17.04	104.98	74.00	30.98	peak

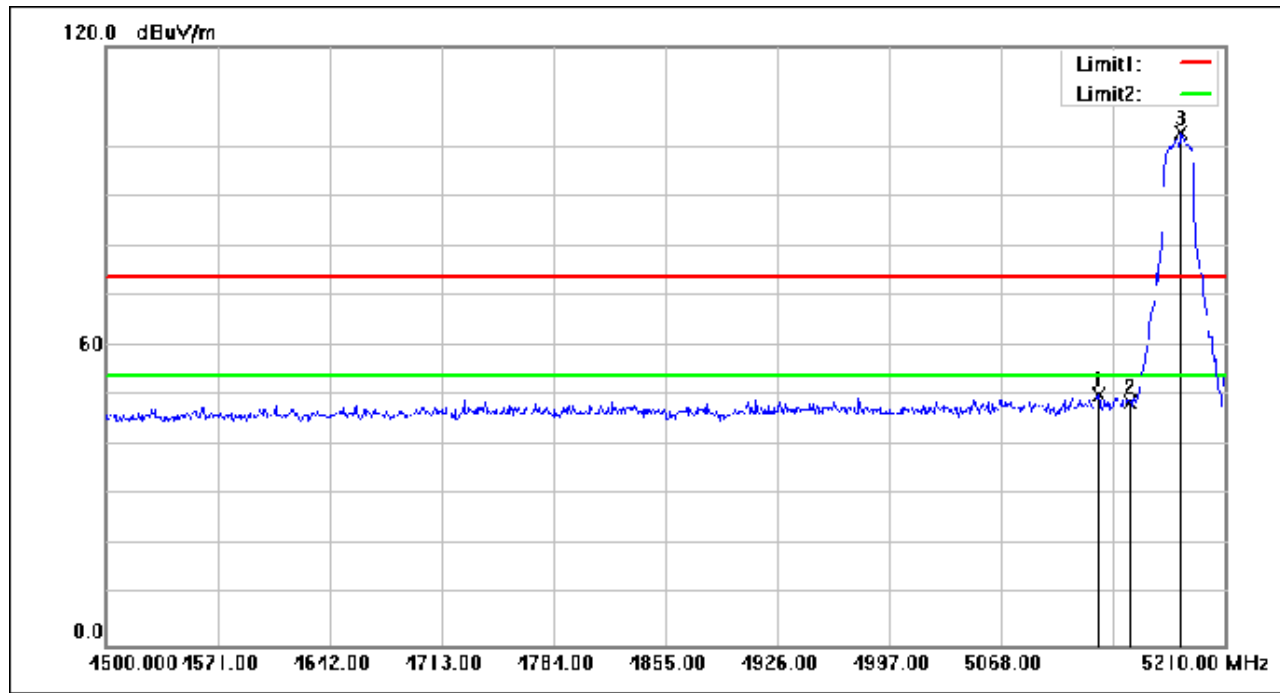
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 05; 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	5129.770	67.36	-17.12	50.24	74.00	-23.76	peak
2	5150.000	65.94	-17.07	48.87	74.00	-25.13	peak
3	5182.310	119.89	-17.04	102.85	74.00	28.85	peak

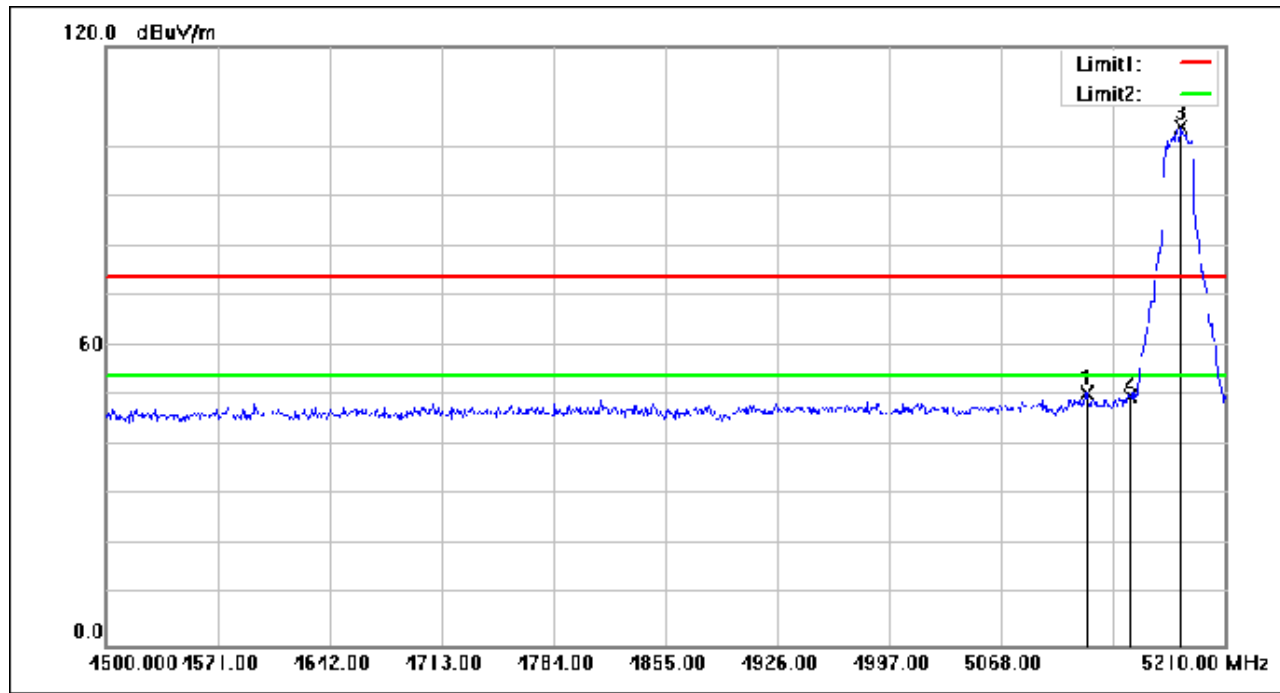
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5121.960	67.83	-17.14	50.69	74.00	-23.31	peak
2	5150.000	66.99	-17.07	49.92	74.00	-24.08	peak
3	5182.310	121.00	-17.04	103.96	74.00	29.96	peak

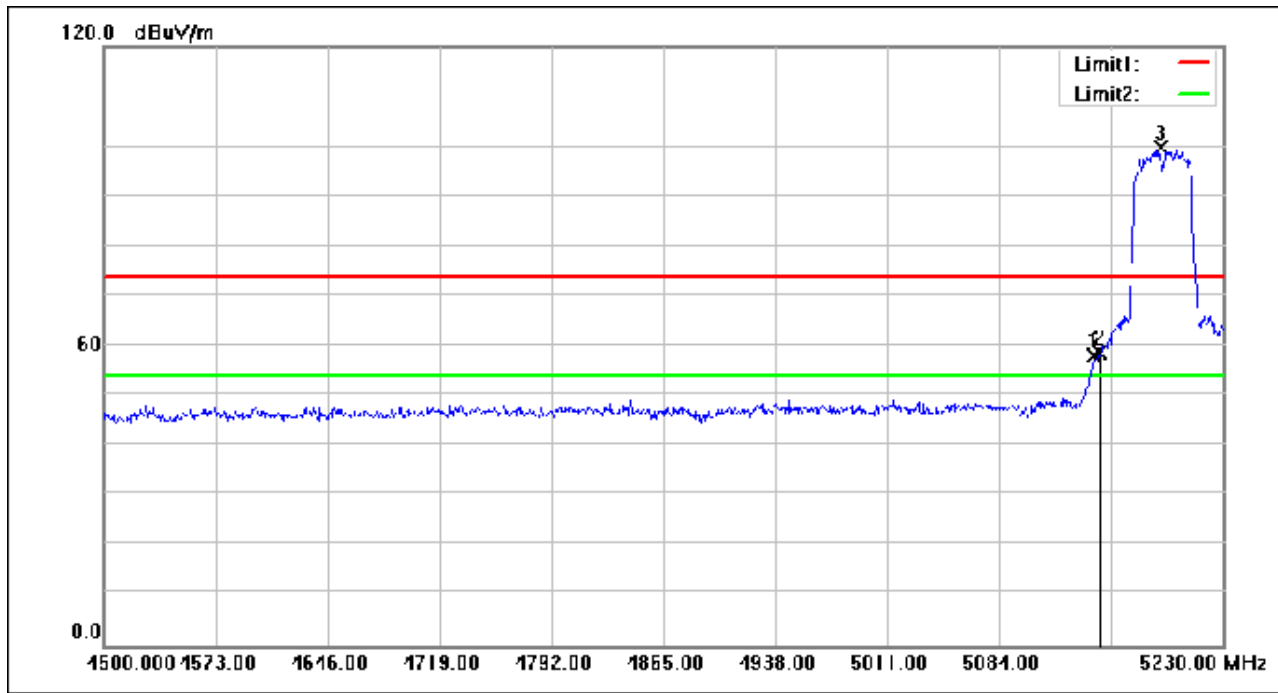
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 05; 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	5145.320	75.09	-17.09	58.00	74.00	-16.00	peak
2	5150.000	75.83	-17.07	58.76	74.00	-15.24	peak
3	5189.120	116.78	-17.03	99.75	74.00	25.75	peak

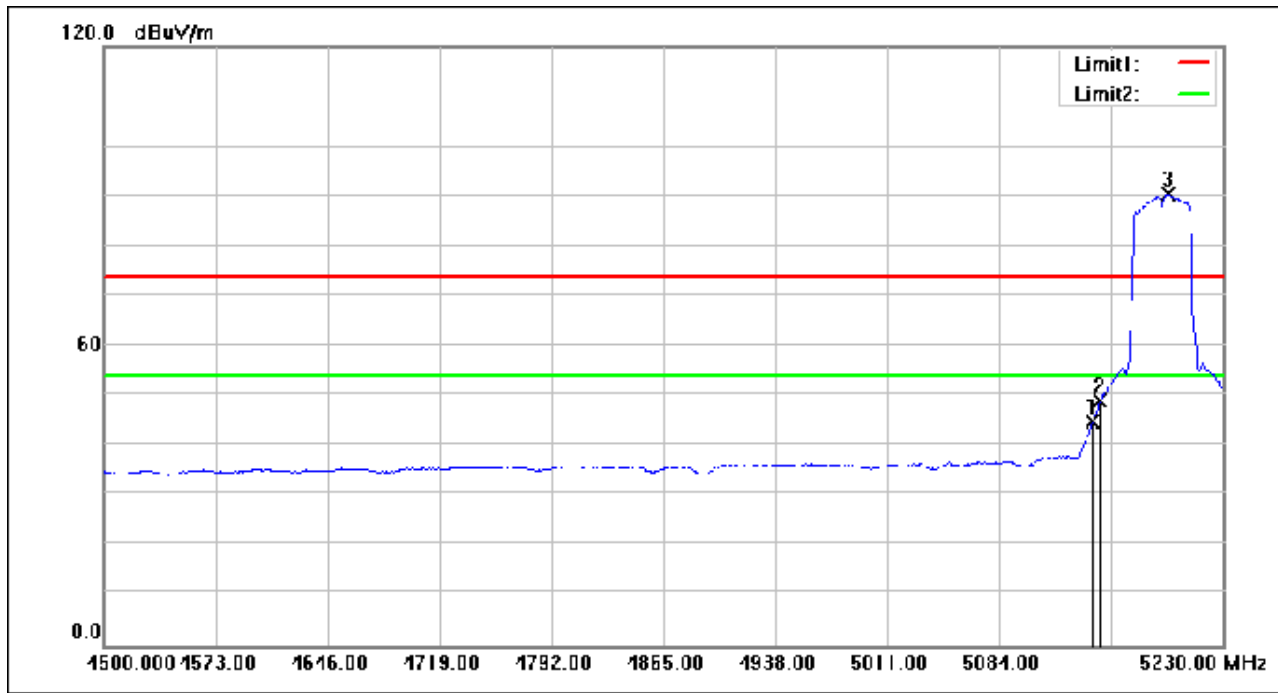
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 05; 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	5144.590	61.82	-17.09	44.73	54.00	-9.27	AVG
2	5150.000	66.25	-17.07	49.18	54.00	-4.82	AVG
3	5194.230	107.40	-17.03	90.37	54.00	36.37	AVG

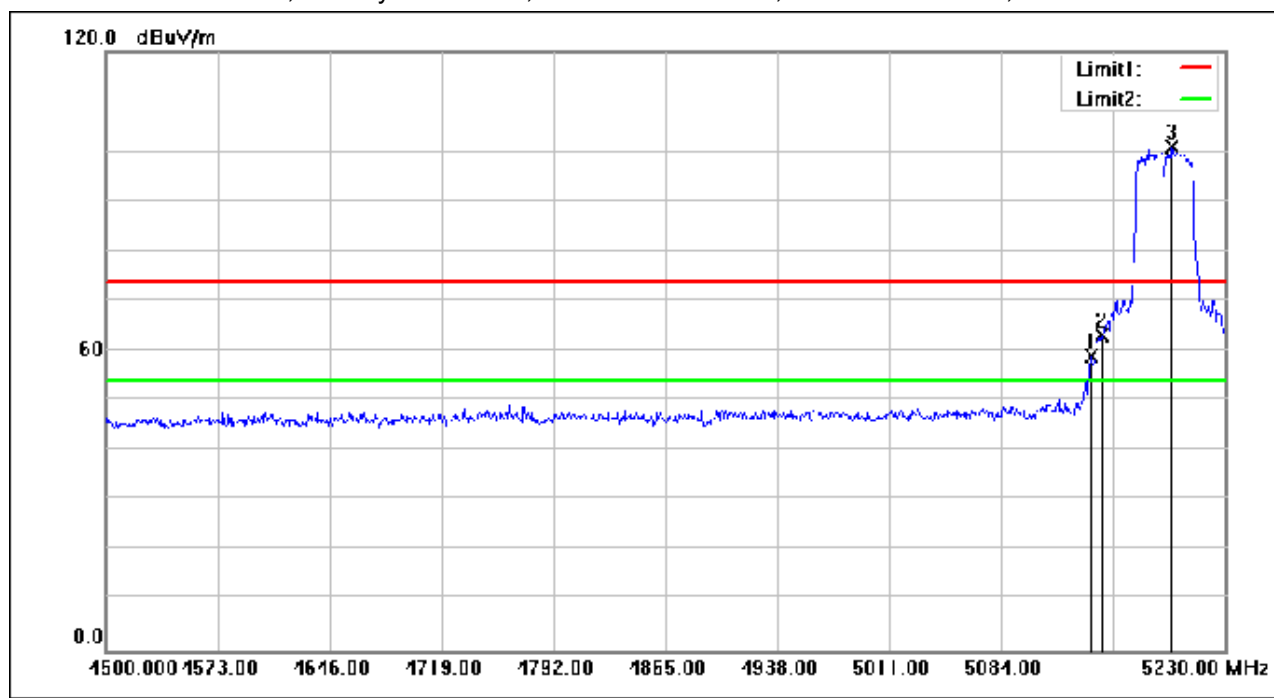
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.400	75.92	-17.09	58.83	74.00	-15.17	peak
2	5150.000	80.10	-17.07	63.03	74.00	-10.97	peak
3	5195.690	117.94	-17.02	100.92	74.00	26.92	peak

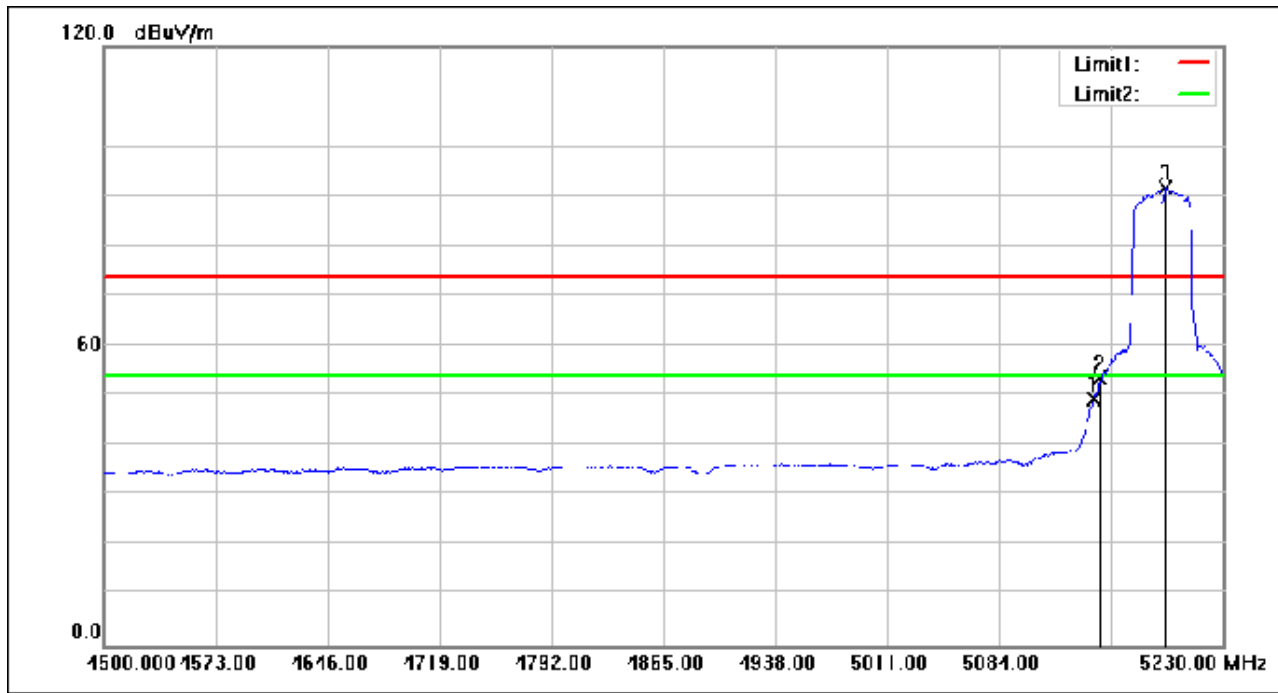
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.050	66.50	-17.09	49.41	54.00	-4.59	AVG
2	5150.000	70.50	-17.07	53.43	54.00	-0.57	AVG
3	5192.040	108.79	-17.03	91.76	54.00	37.76	AVG

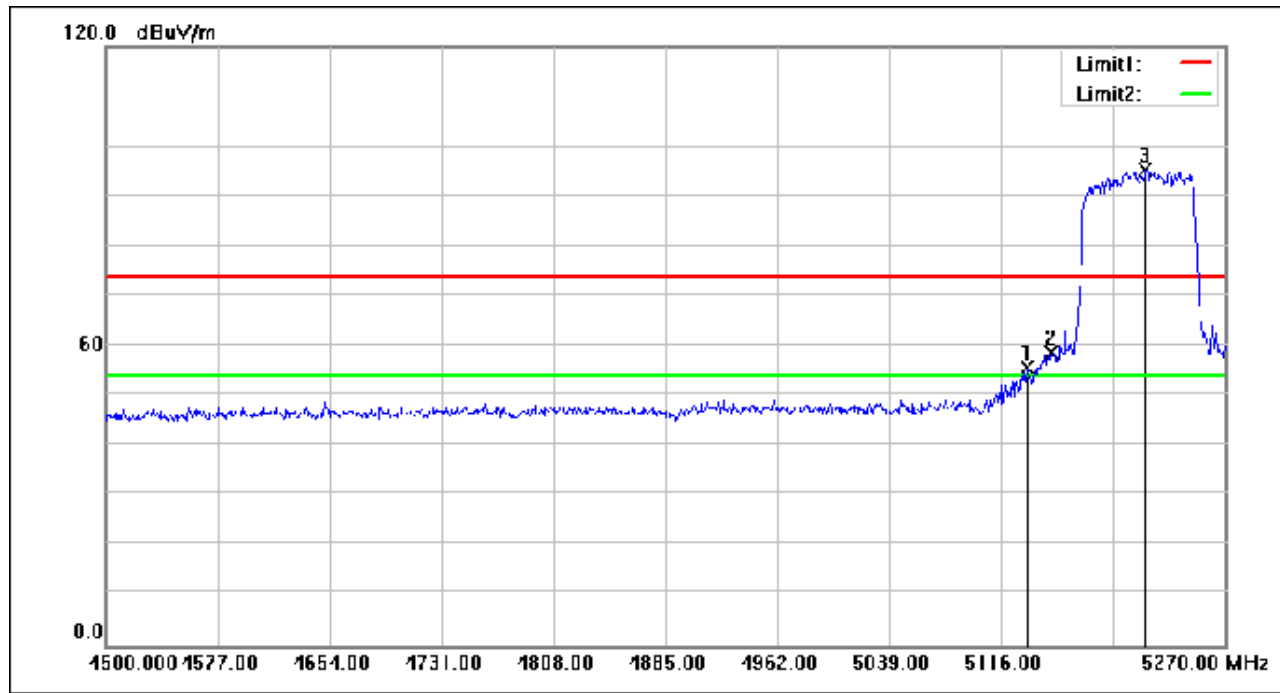
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5133.710	72.86	-17.11	55.75	74.00	-18.25	peak
2	5150.000	75.68	-17.07	58.61	74.00	-15.39	peak
3	5215.330	112.31	-17.00	95.31	74.00	21.31	peak

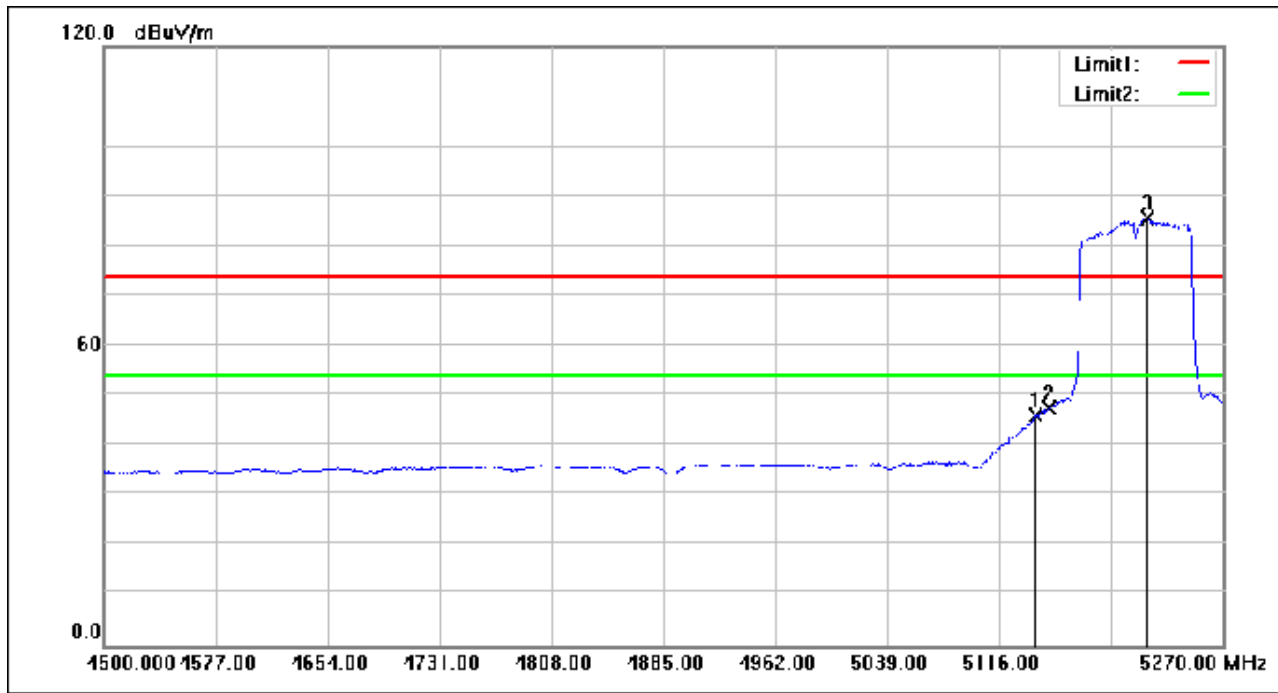
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5141.410	63.24	-17.09	46.15	54.00	-7.85	AVG
2	5150.000	64.62	-17.07	47.55	54.00	-6.45	AVG
3	5218.410	102.74	-17.00	85.74	54.00	31.74	AVG

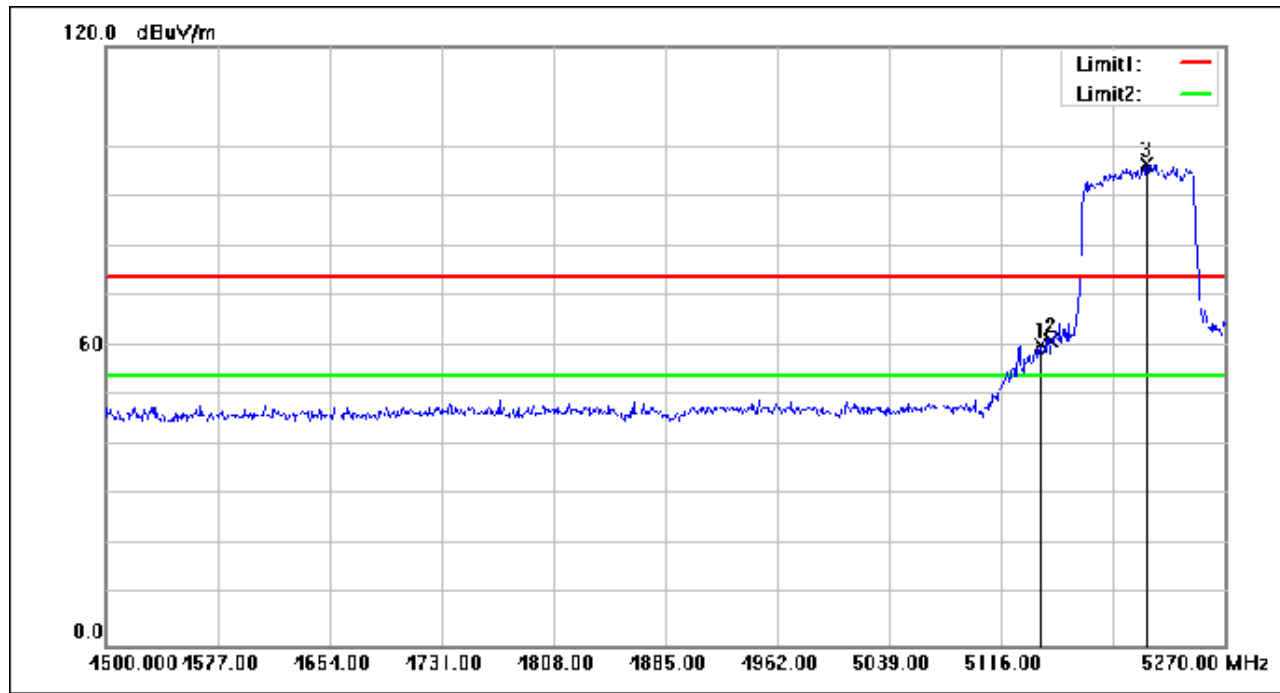
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.950	77.26	-17.09	60.17	74.00	-13.83	peak
2	5150.000	78.04	-17.07	60.97	74.00	-13.03	peak
3	5216.100	113.47	-17.00	96.47	74.00	22.47	peak

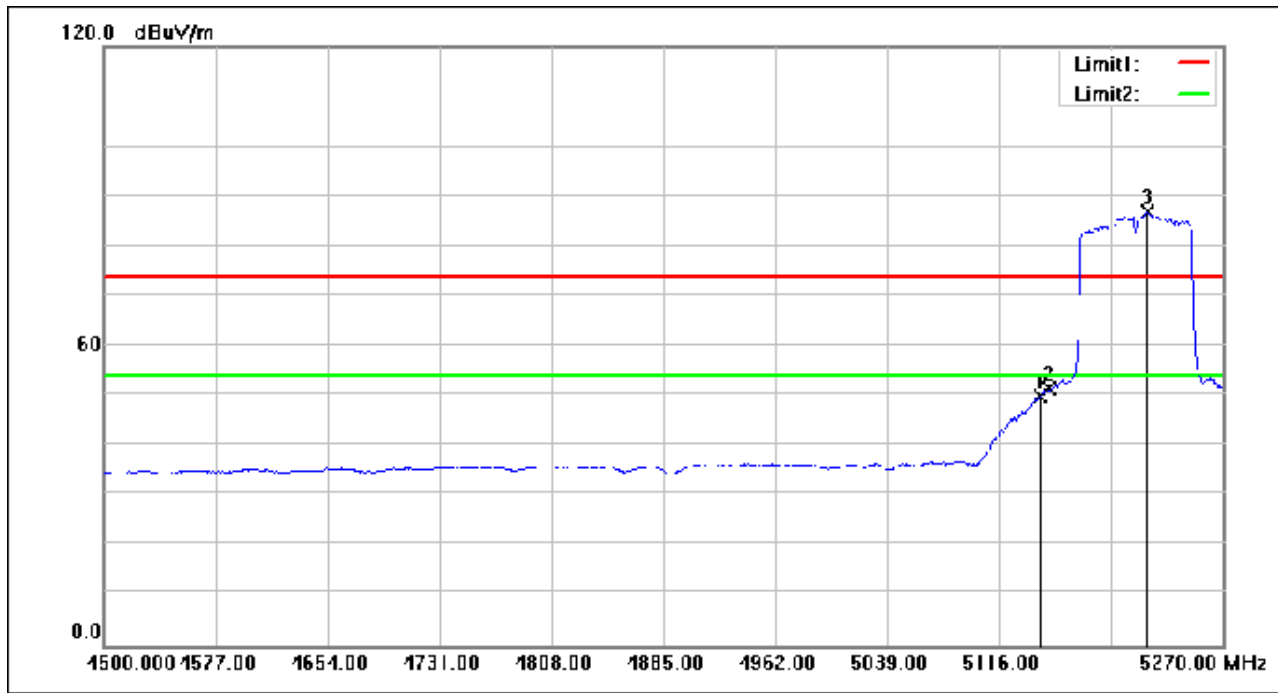
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5144.490	67.03	-17.09	49.94	54.00	-4.06	AVG
2	5150.000	68.44	-17.07	51.37	54.00	-2.63	AVG
3	5218.410	103.81	-17.00	86.81	54.00	32.81	AVG

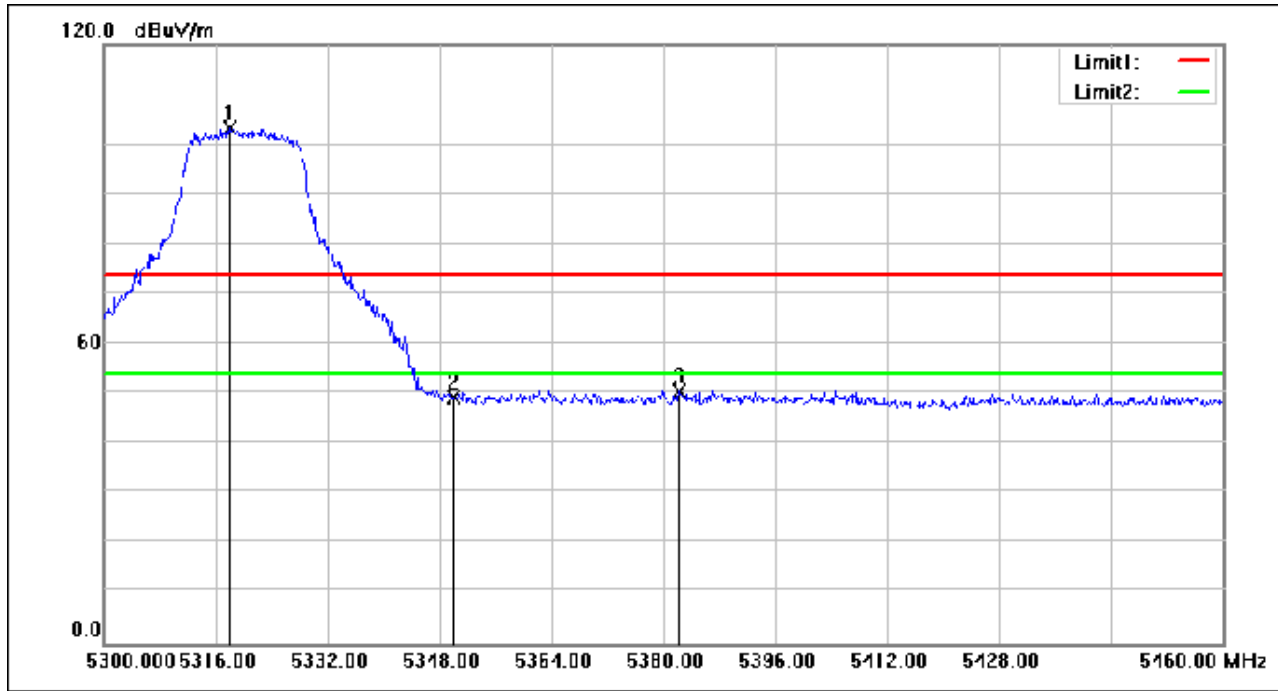
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 06; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5317.920	120.35	-17.04	103.31	74.00	29.31	peak
2	5350.000	66.37	-17.07	49.30	74.00	-24.70	peak
3	5382.240	67.63	-17.00	50.63	74.00	-23.37	peak

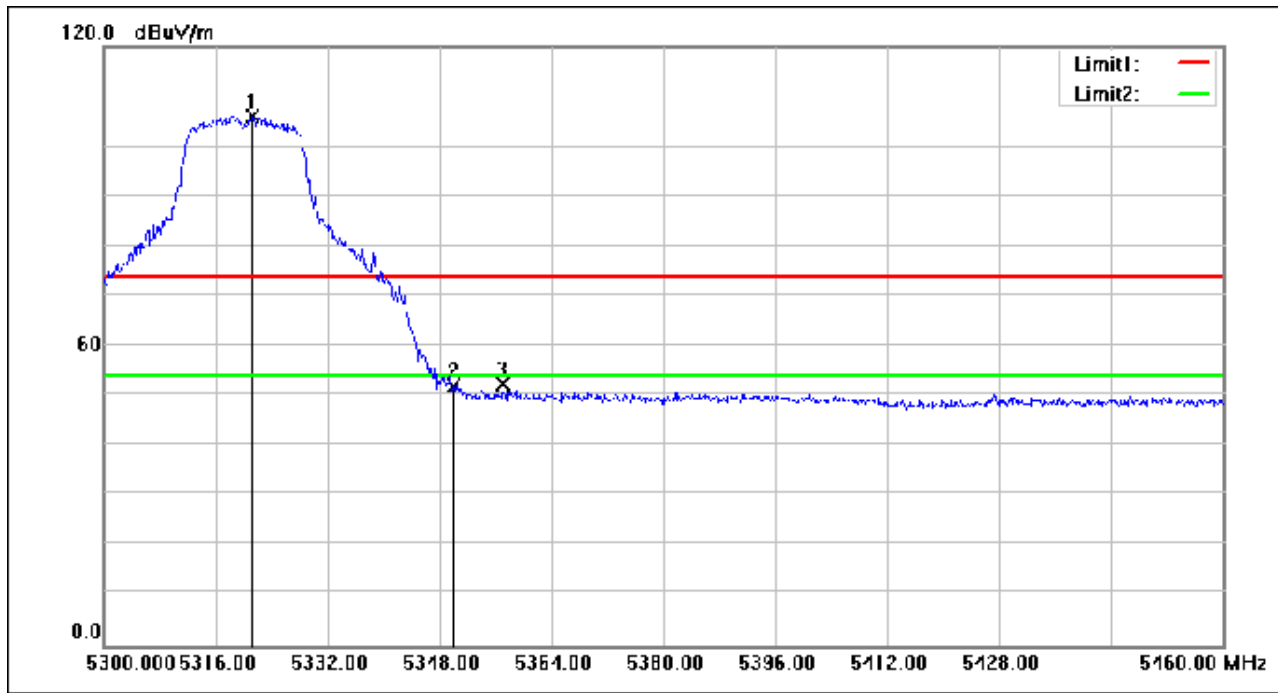
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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5321.120	123.17	-17.03	106.14	74.00	32.14	peak
2	5350.000	69.01	-17.07	51.94	74.00	-22.06	peak
3	5356.960	69.36	-17.05	52.31	74.00	-21.69	peak

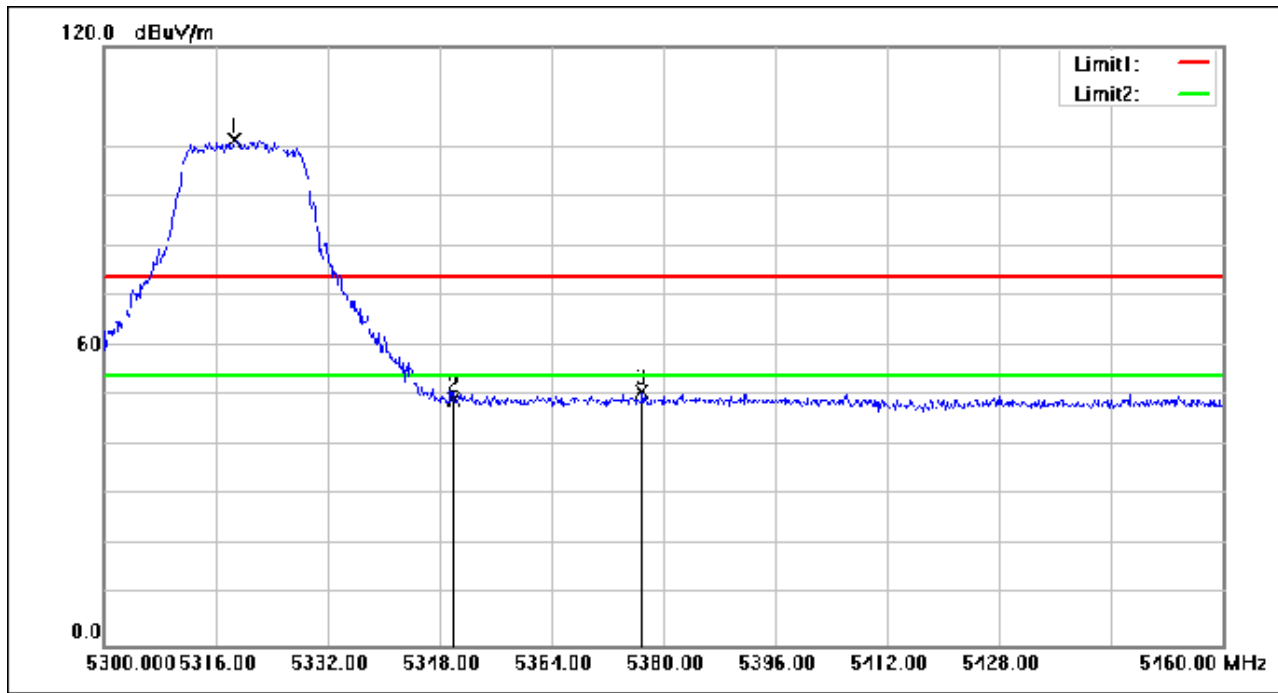
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Test Mode: 06; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5318.720	118.40	-17.04	101.36	74.00	27.36	peak
2	5350.000	66.49	-17.07	49.42	74.00	-24.58	peak
3	5376.960	67.83	-17.02	50.81	74.00	-23.19	peak

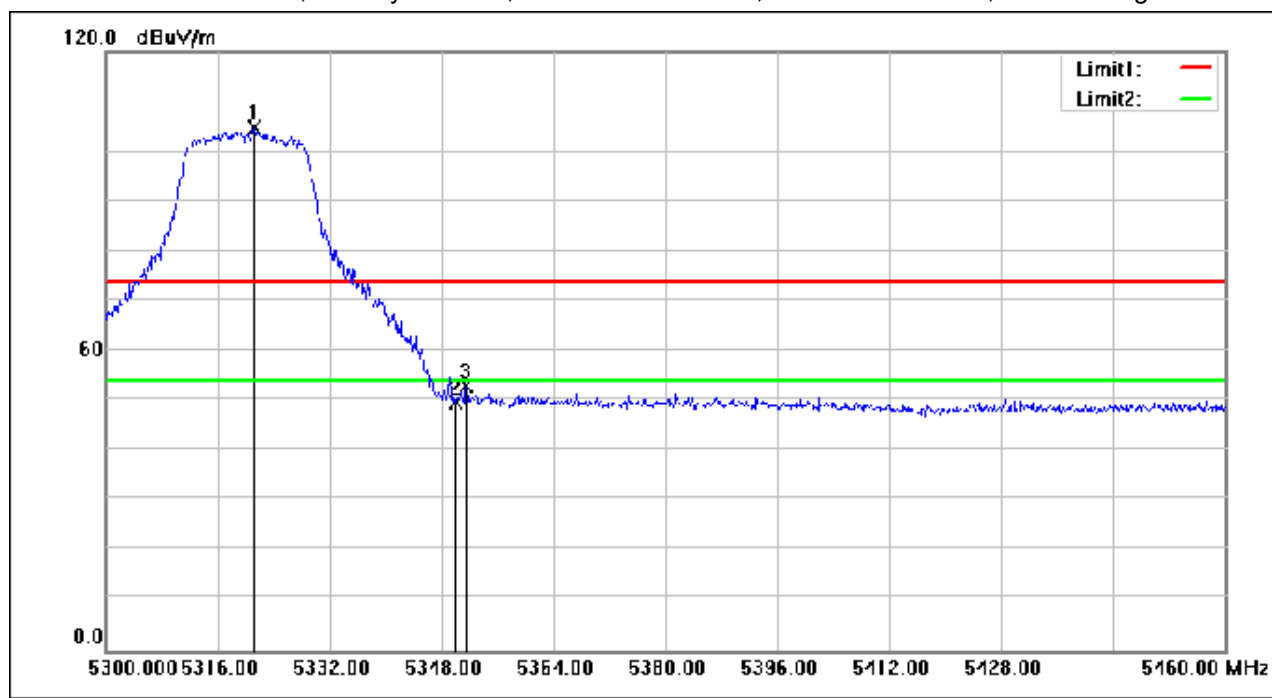
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5321.120	121.76	-17.03	104.73	74.00	30.73	peak
2	5350.000	66.74	-17.07	49.67	74.00	-24.33	peak
3	5351.520	70.11	-17.06	53.05	74.00	-20.95	peak

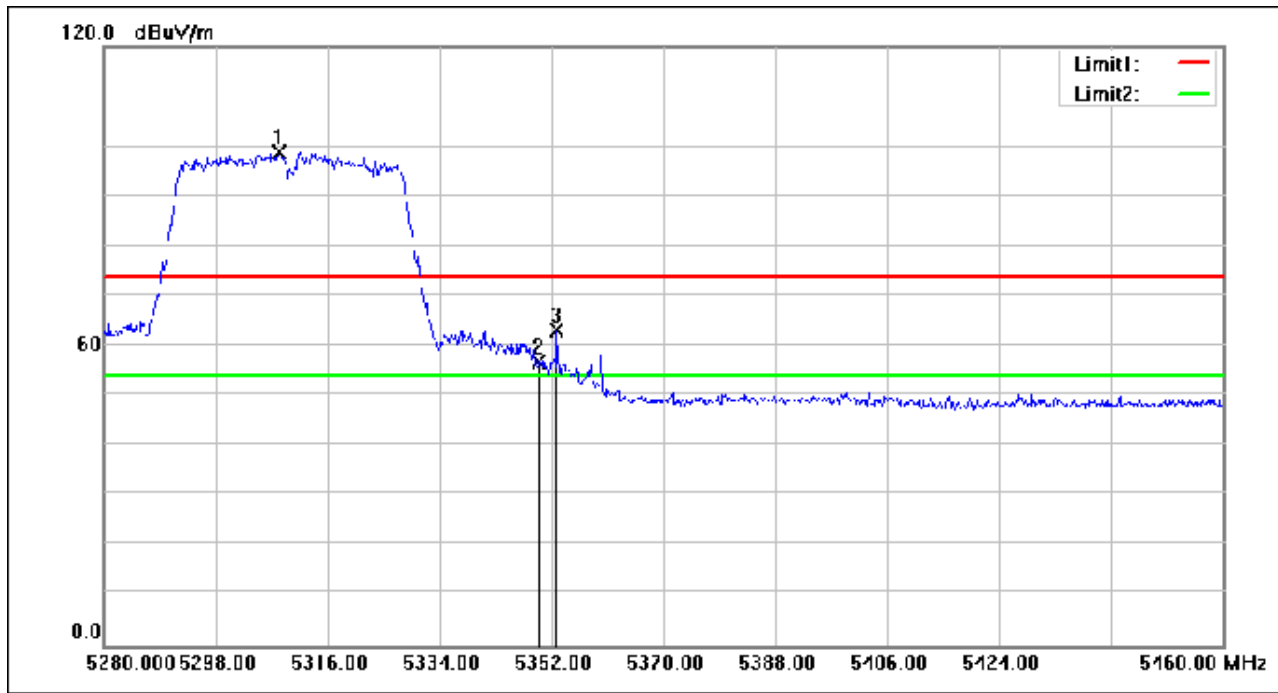
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 06; 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	5308.080	115.78	-17.03	98.75	74.00	24.75	peak
2	5350.000	73.88	-17.07	56.81	74.00	-17.19	peak
3	5352.900	80.32	-17.06	63.26	74.00	-10.74	peak

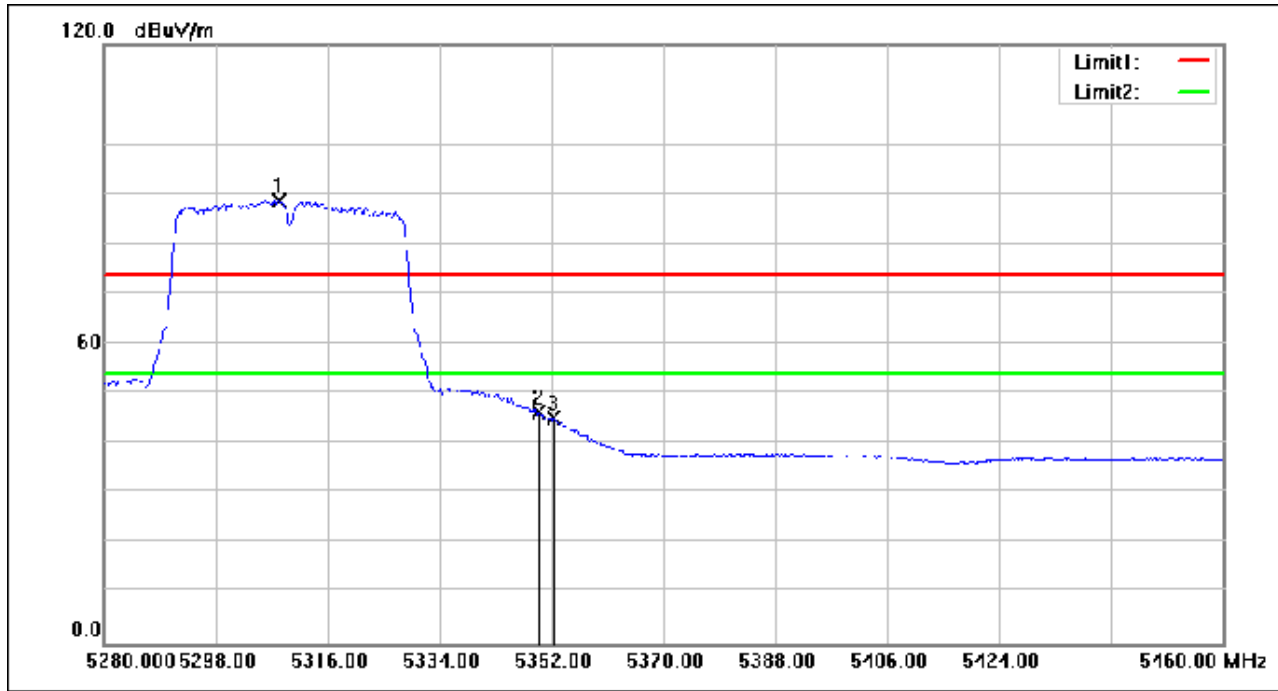
Compliance Certification Services (Kunshan) Inc.

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Test Mode: 06; 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	5308.260	105.77	-17.03	88.74	54.00	34.74	AVG
2	5350.000	63.27	-17.07	46.20	54.00	-7.80	AVG
3	5352.360	62.28	-17.06	45.22	54.00	-8.78	AVG

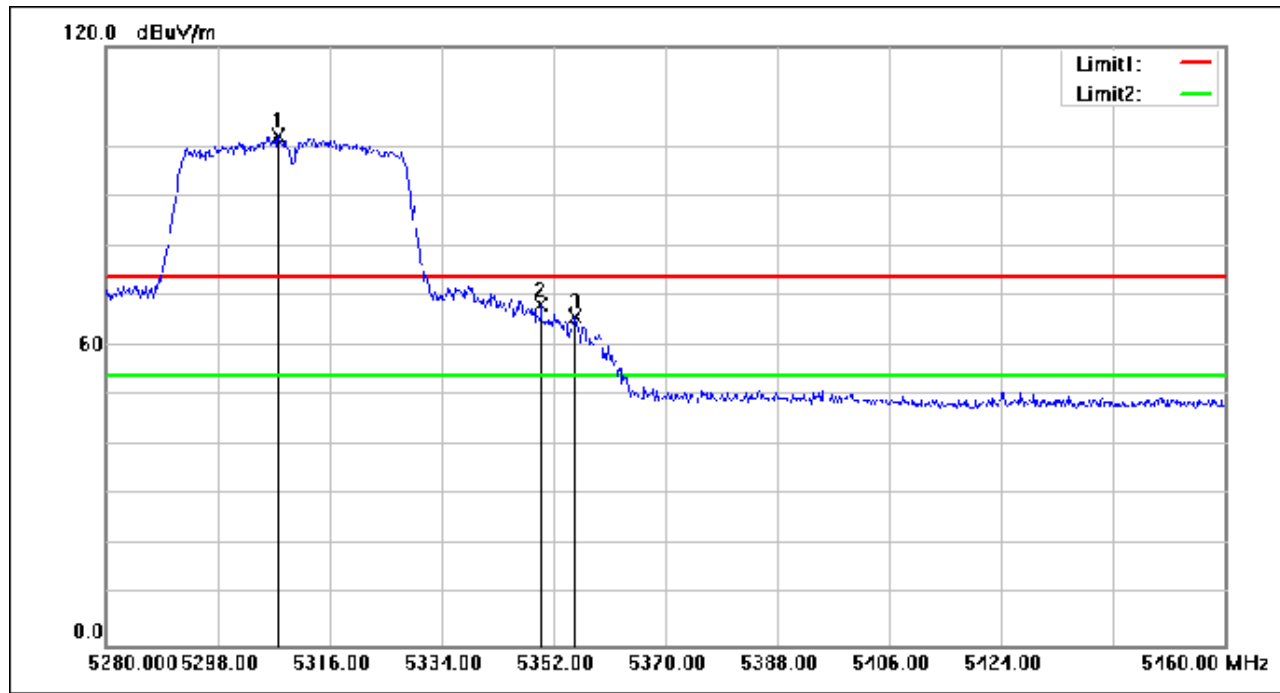
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Test Mode: 06; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5307.720	119.20	-17.03	102.17	74.00	28.17	peak
2	5350.000	85.27	-17.07	68.20	74.00	-5.80	peak
3	5355.420	82.98	-17.06	65.92	74.00	-8.08	peak

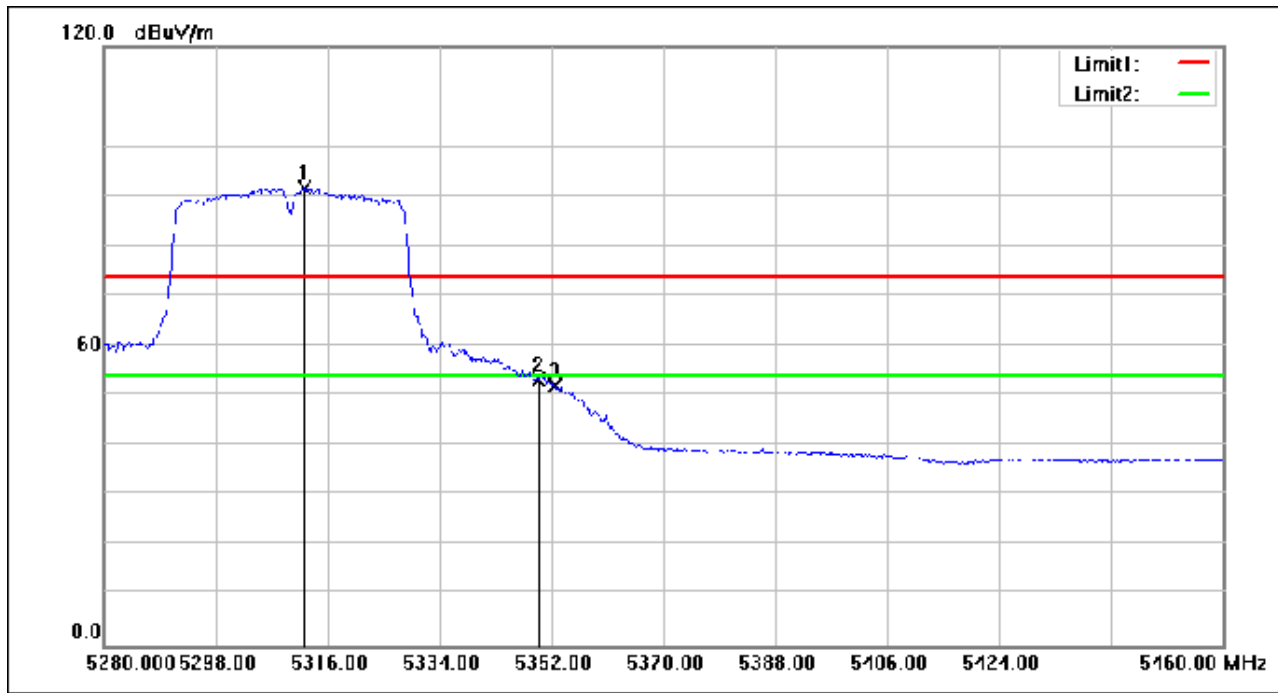
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5312.220	108.57	-17.02	91.55	54.00	37.55	AVG
2	5350.000	70.21	-17.07	53.14	54.00	-0.86	AVG
3	5352.540	69.09	-17.06	52.03	54.00	-1.97	AVG

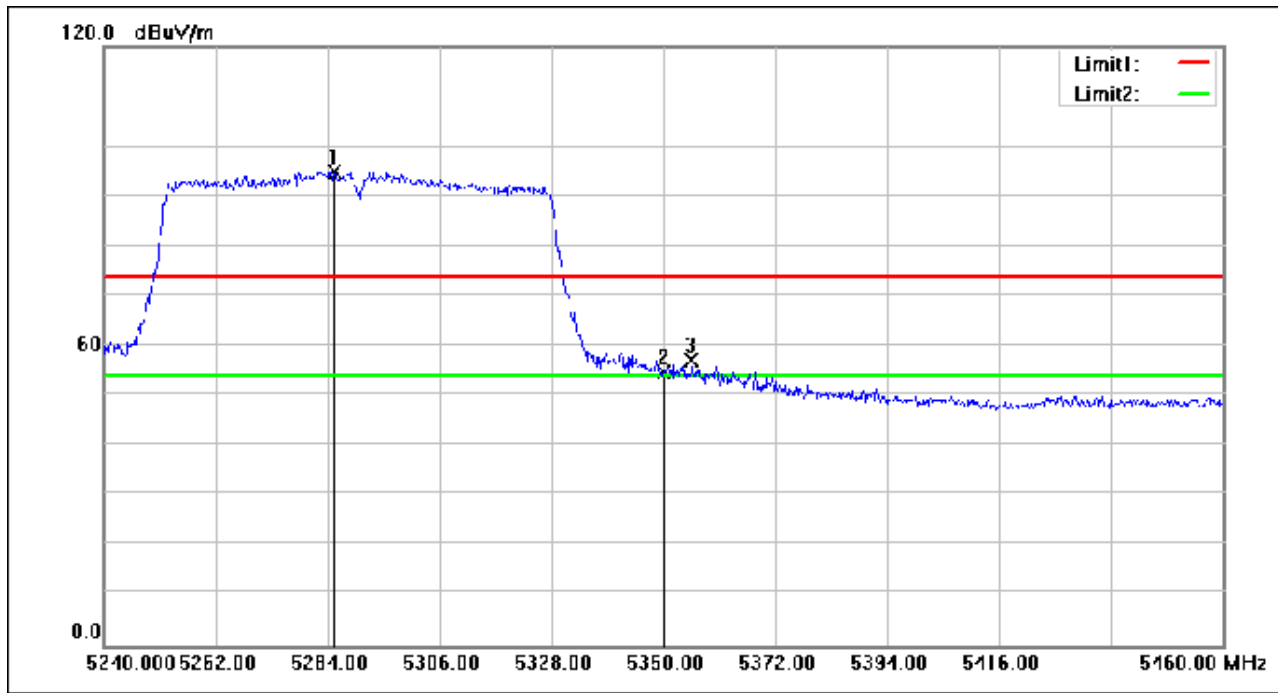
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5285.320	112.00	-17.00	95.00	74.00	21.00	peak
2	5350.000	71.92	-17.07	54.85	74.00	-19.15	peak
3	5355.500	74.18	-17.06	57.12	74.00	-16.88	peak

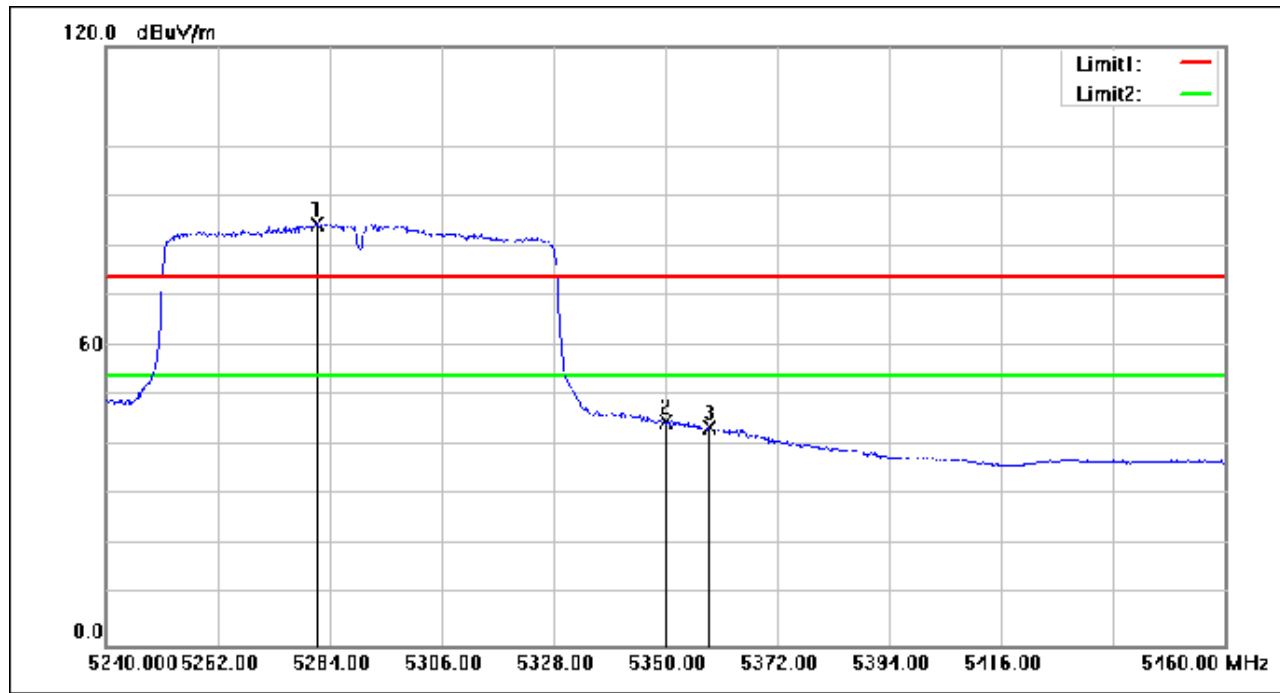
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5281.360	101.60	-17.00	84.60	54.00	30.60	AVG
2	5350.000	62.06	-17.07	44.99	54.00	-9.01	AVG
3	5358.580	60.70	-17.05	43.65	54.00	-10.35	AVG

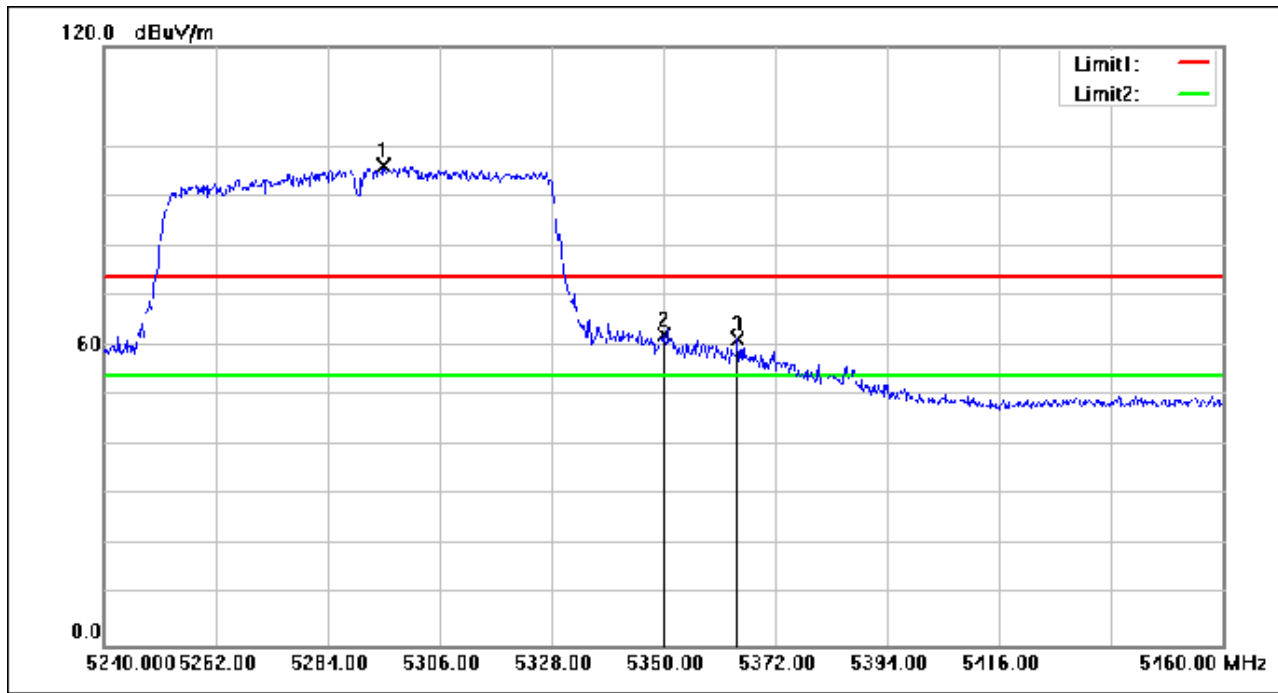
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5295.000	113.11	-17.01	96.10	74.00	22.10	peak
2	5350.000	79.18	-17.07	62.11	74.00	-11.89	peak
3	5364.520	78.50	-17.04	61.46	74.00	-12.54	peak

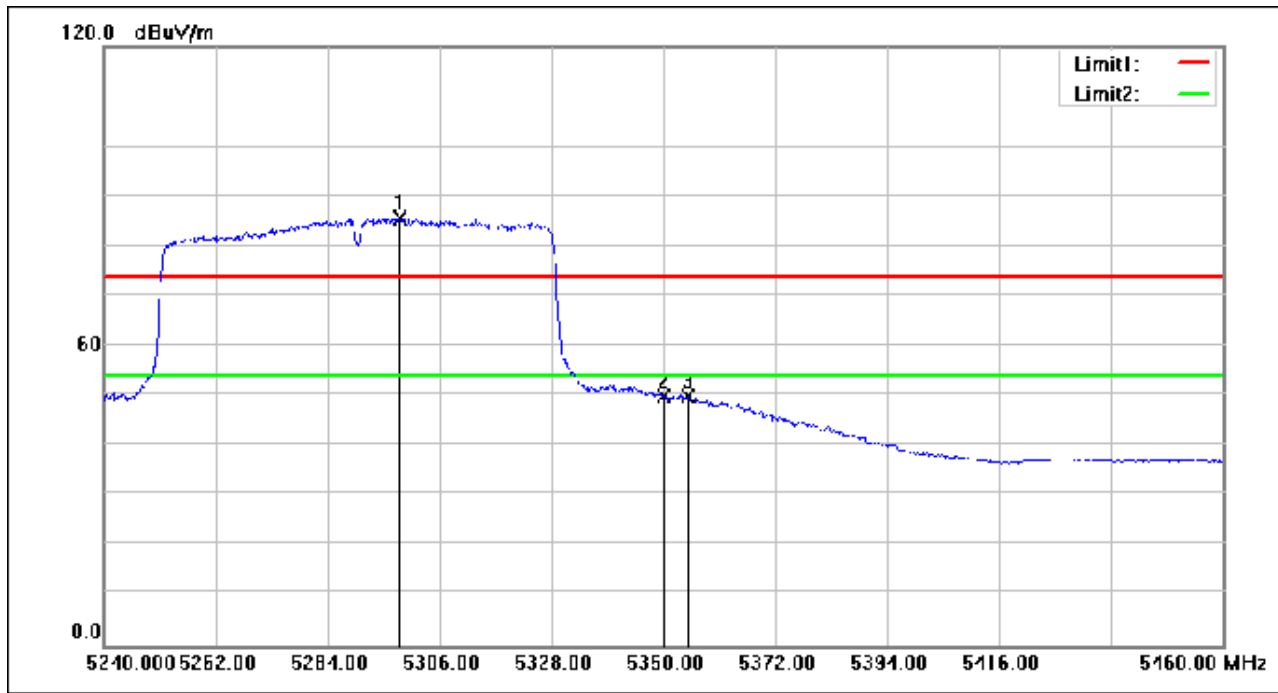
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5298.300	102.69	-17.02	85.67	54.00	31.67	AVG
2	5350.000	67.10	-17.07	50.03	54.00	-3.97	AVG
3	5354.840	66.92	-17.06	49.86	54.00	-4.14	AVG

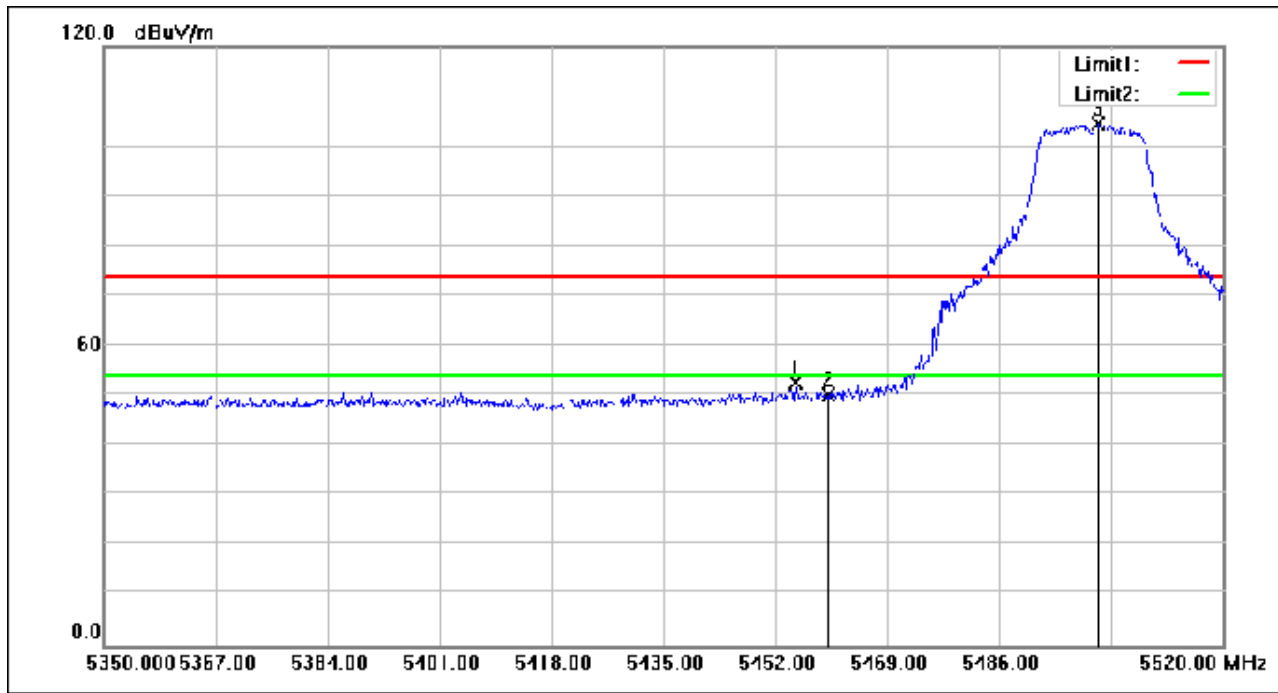
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5455.060	69.53	-16.87	52.66	74.00	-21.34	peak
2	5460.000	67.14	-16.86	50.28	74.00	-23.72	peak
3	5501.130	121.36	-16.81	104.55	74.00	30.55	peak

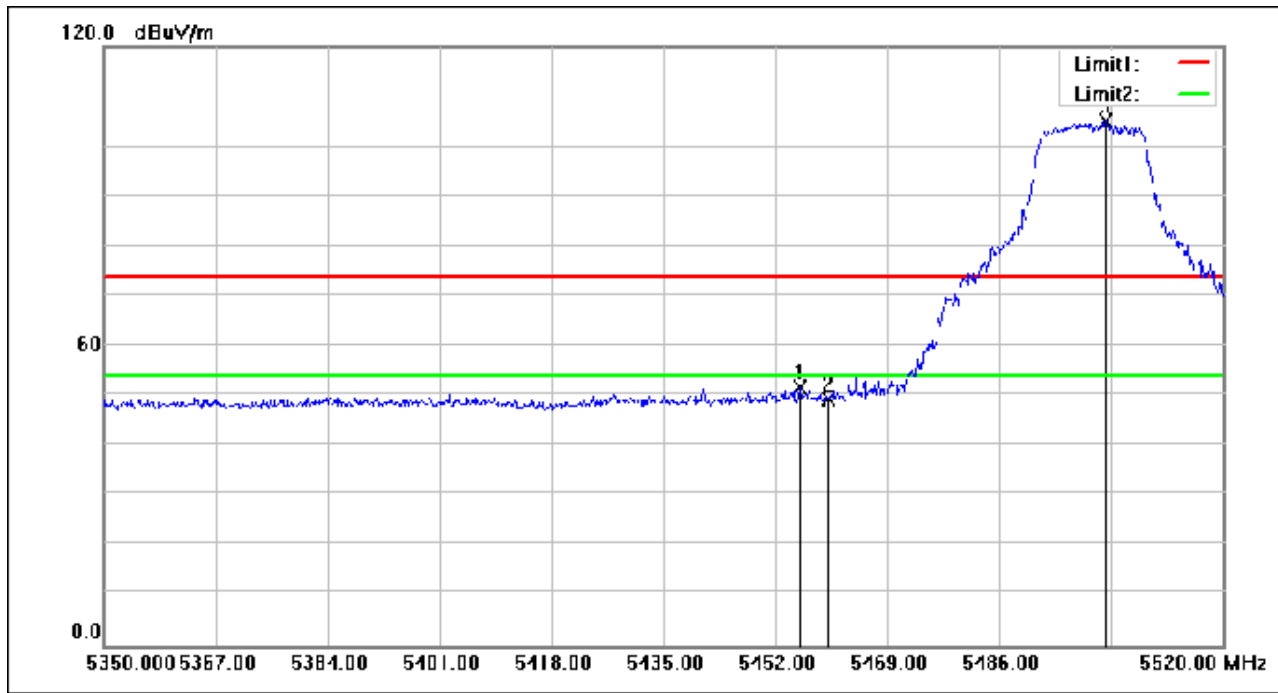
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5455.740	68.61	-16.87	51.74	74.00	-22.26	peak
2	5460.000	66.36	-16.86	49.50	74.00	-24.50	peak
3	5502.150	121.87	-16.81	105.06	74.00	31.06	peak

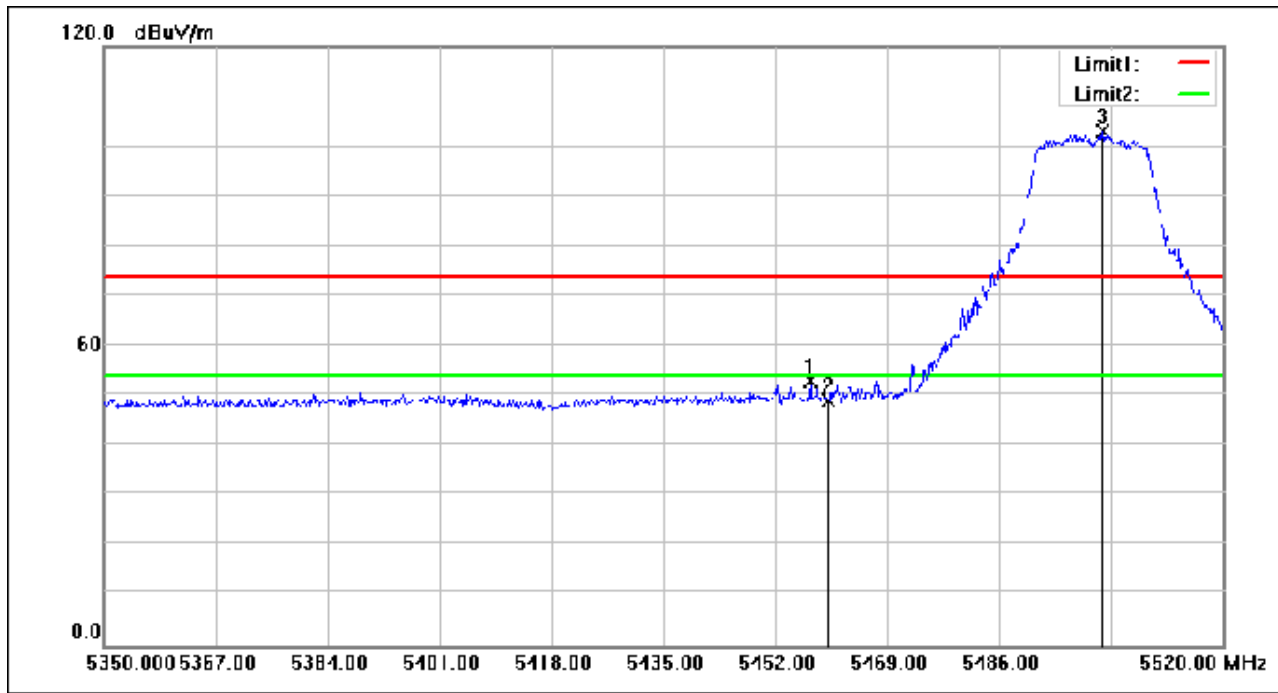
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.270	69.87	-16.86	53.01	74.00	-20.99	peak
2	5460.000	65.83	-16.86	48.97	74.00	-25.03	peak
3	5501.810	119.77	-16.81	102.96	74.00	28.96	peak

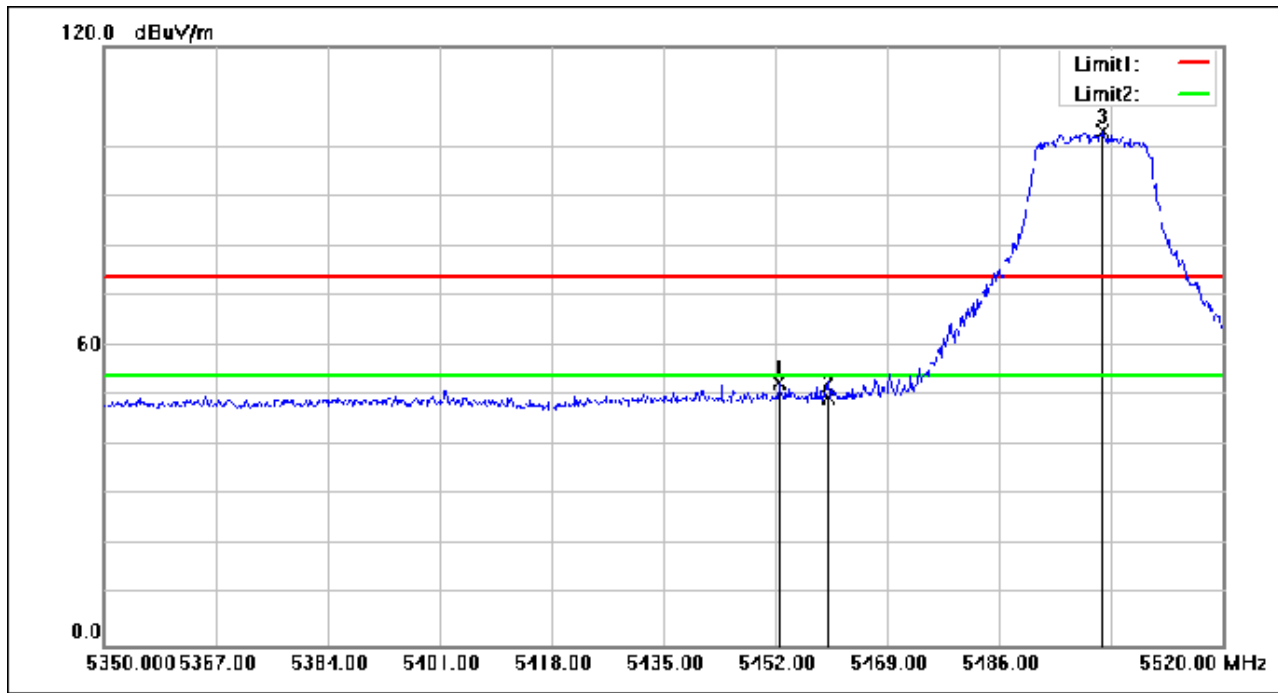
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5452.510	69.49	-16.87	52.62	74.00	-21.38	peak
2	5460.000	66.57	-16.86	49.71	74.00	-24.29	peak
3	5501.640	119.72	-16.81	102.91	74.00	28.91	peak

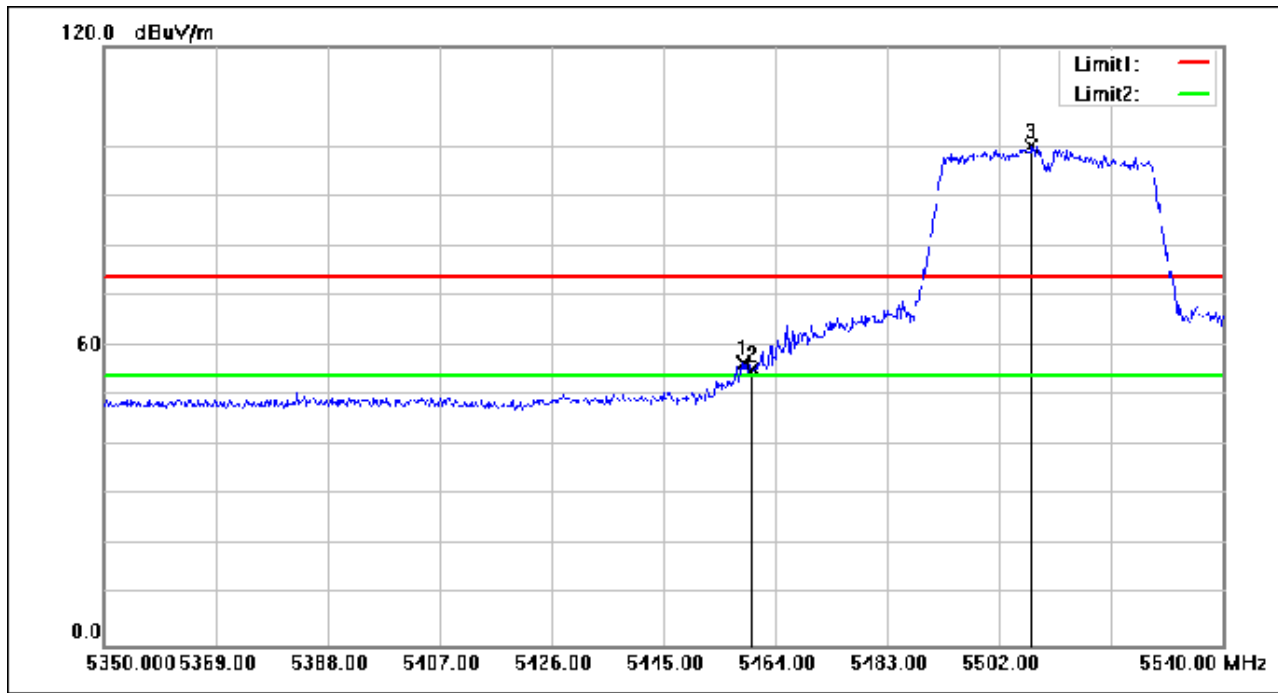
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.490	73.42	-16.86	56.56	74.00	-17.44	peak
2	5460.000	72.19	-16.86	55.33	74.00	-18.67	peak
3	5507.510	116.84	-16.80	100.04	74.00	26.04	peak

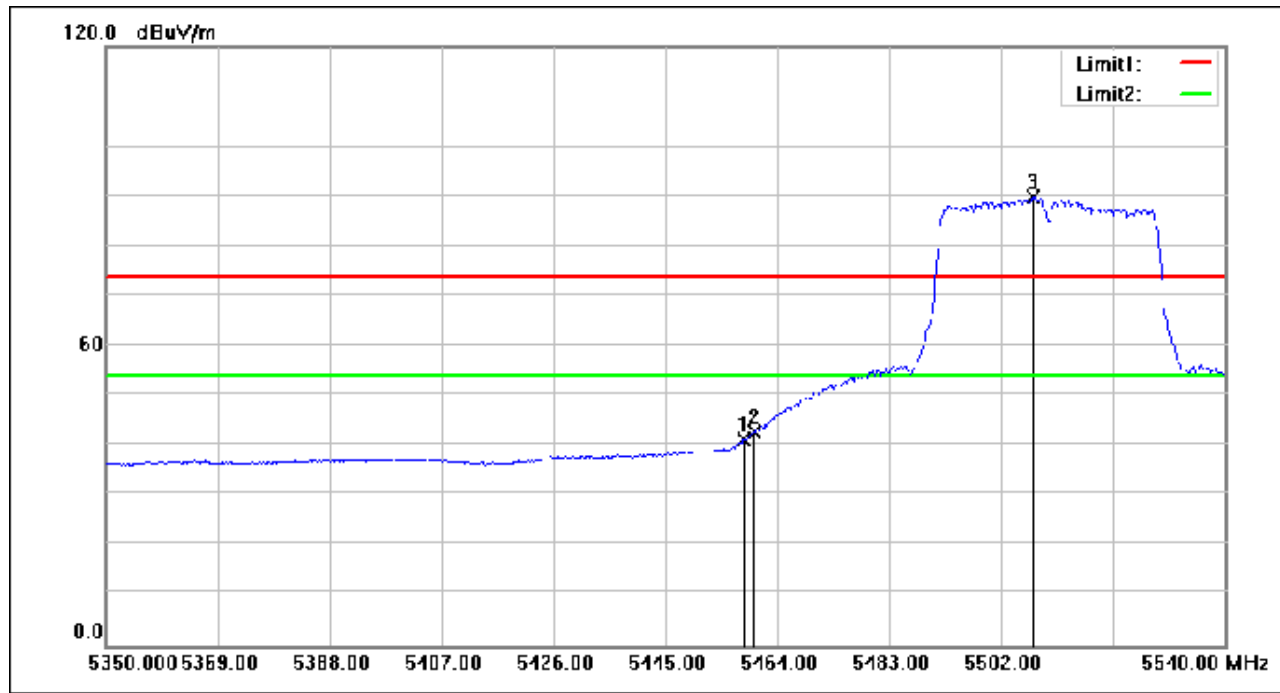
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.300	58.00	-16.86	41.14	54.00	-12.86	AVG
2	5460.000	59.58	-16.86	42.72	54.00	-11.28	AVG
3	5507.510	106.75	-16.80	89.95	54.00	35.95	AVG

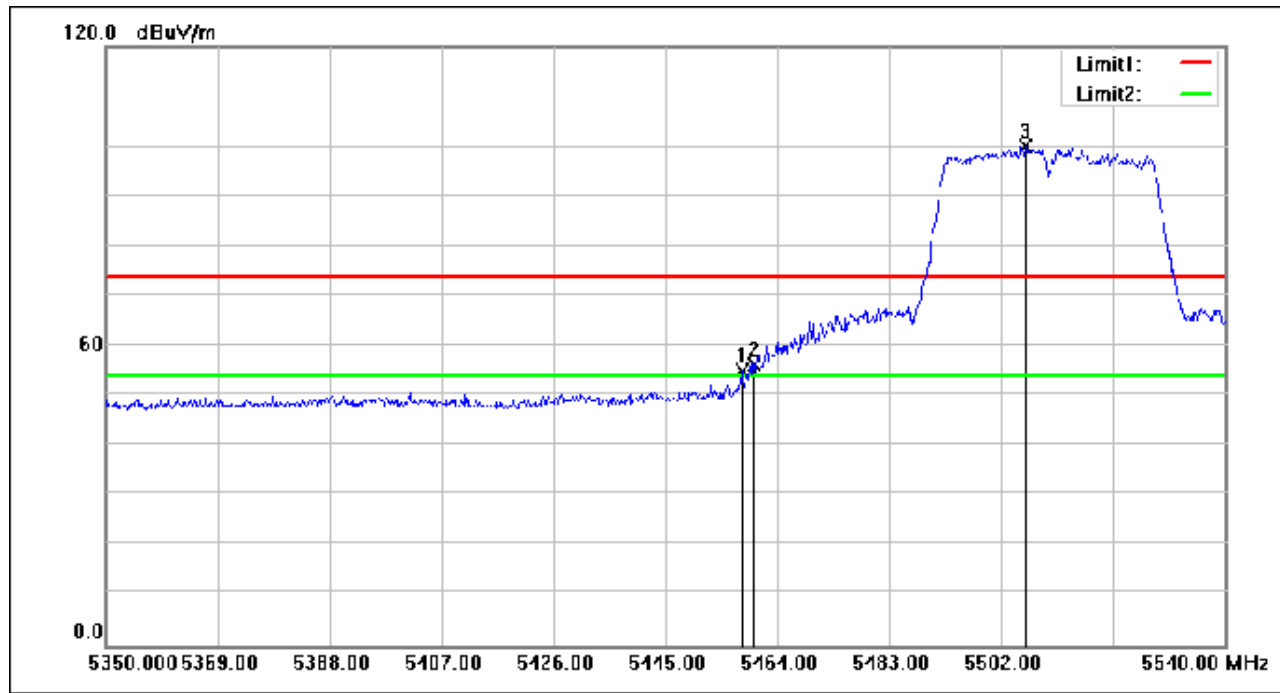
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.920	72.02	-16.86	55.16	74.00	-18.84	peak
2	5460.000	73.26	-16.86	56.40	74.00	-17.60	peak
3	5506.180	116.98	-16.80	100.18	74.00	26.18	peak

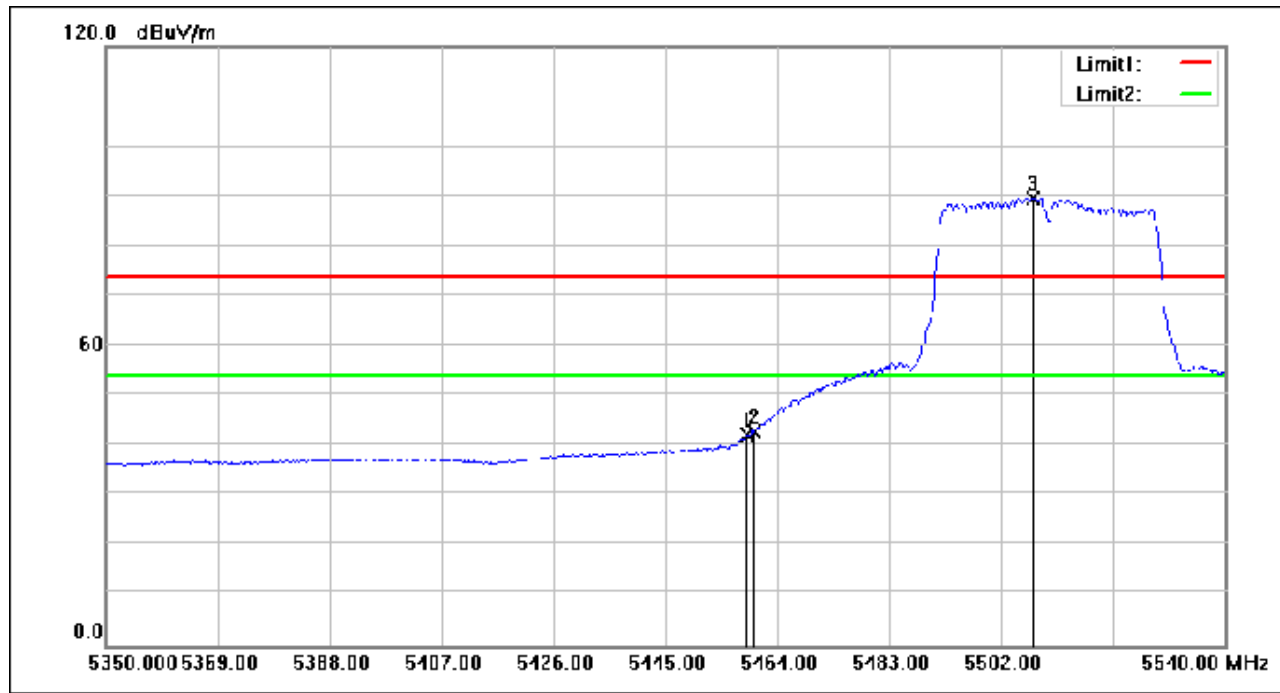
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.680	58.92	-16.86	42.06	54.00	-11.94	AVG
2	5460.000	59.75	-16.86	42.89	54.00	-11.11	AVG
3	5507.510	106.48	-16.80	89.68	54.00	35.68	AVG

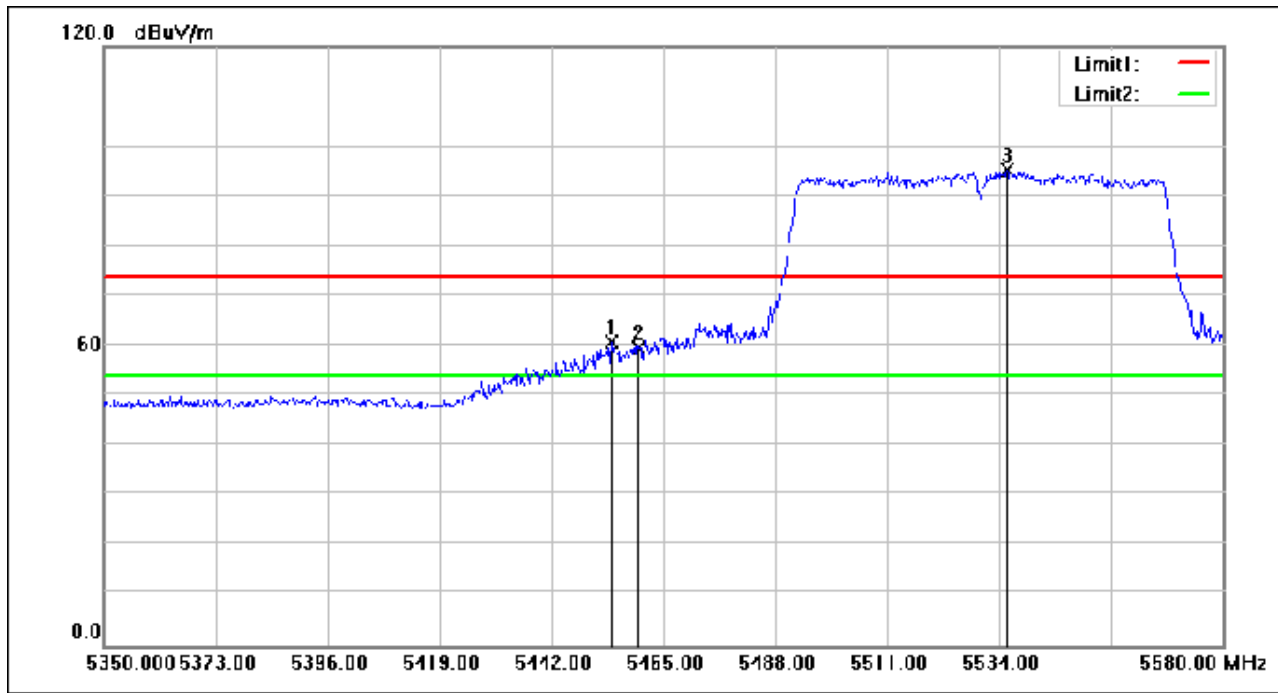
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5454.420	77.49	-16.87	60.62	74.00	-13.38	peak
2	5460.000	76.48	-16.86	59.62	74.00	-14.38	peak
3	5535.610	112.13	-16.77	95.36	74.00	21.36	peak

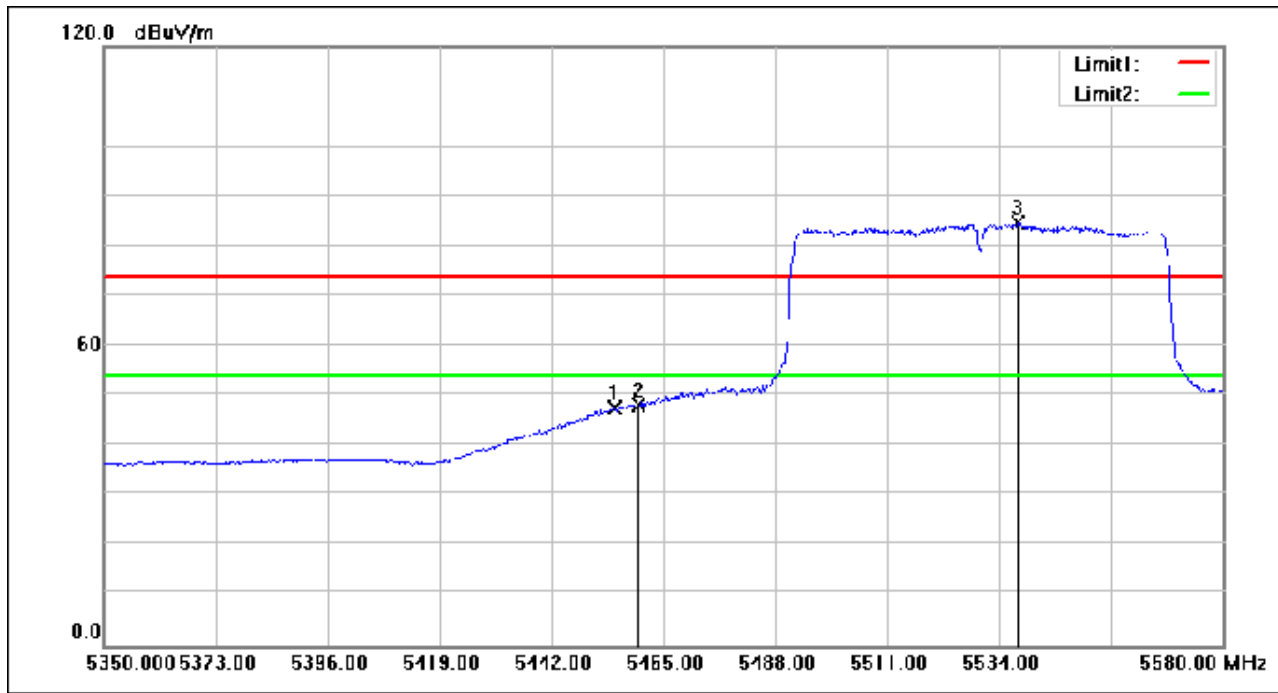
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5454.880	64.54	-16.87	47.67	54.00	-6.33	AVG
2	5460.000	65.06	-16.86	48.20	54.00	-5.80	AVG
3	5537.910	101.53	-16.77	84.76	54.00	30.76	AVG

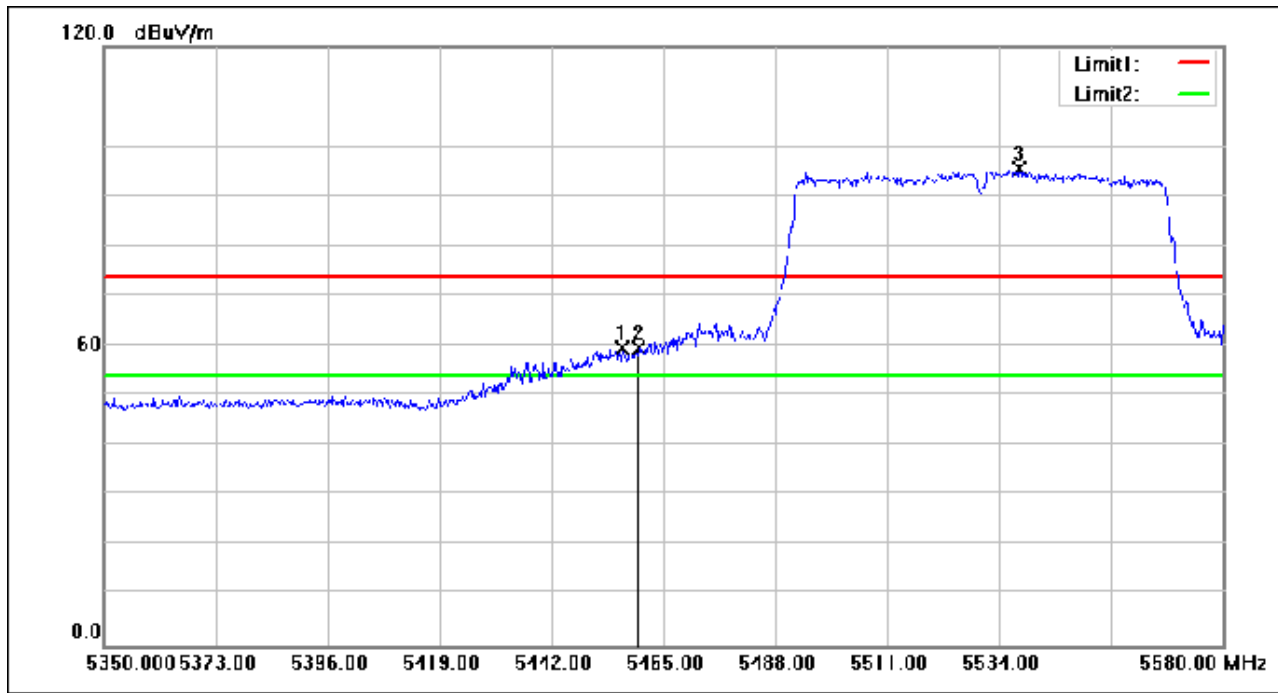
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5456.490	76.32	-16.87	59.45	74.00	-14.55	peak
2	5460.000	76.42	-16.86	59.56	74.00	-14.44	peak
3	5538.140	112.42	-16.77	95.65	74.00	21.65	peak

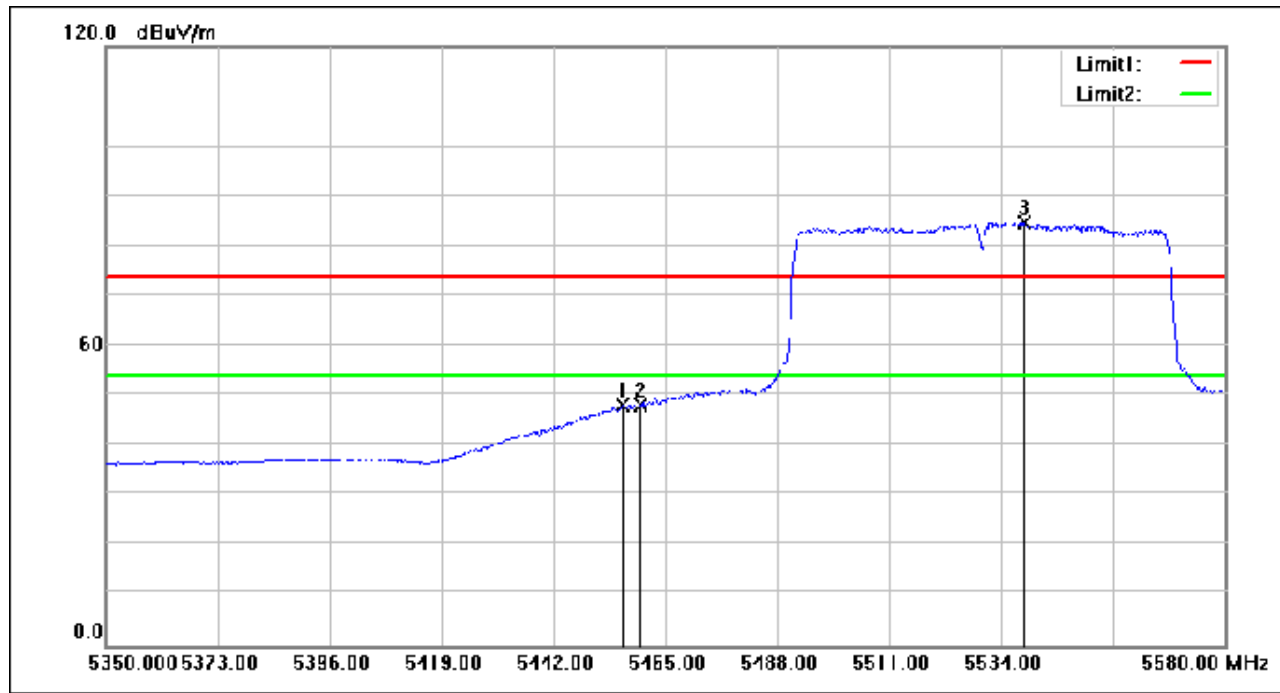
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5456.260	64.95	-16.87	48.08	54.00	-5.92	AVG
2	5460.000	64.90	-16.86	48.04	54.00	-5.96	AVG
3	5538.830	101.64	-16.77	84.87	54.00	30.87	AVG

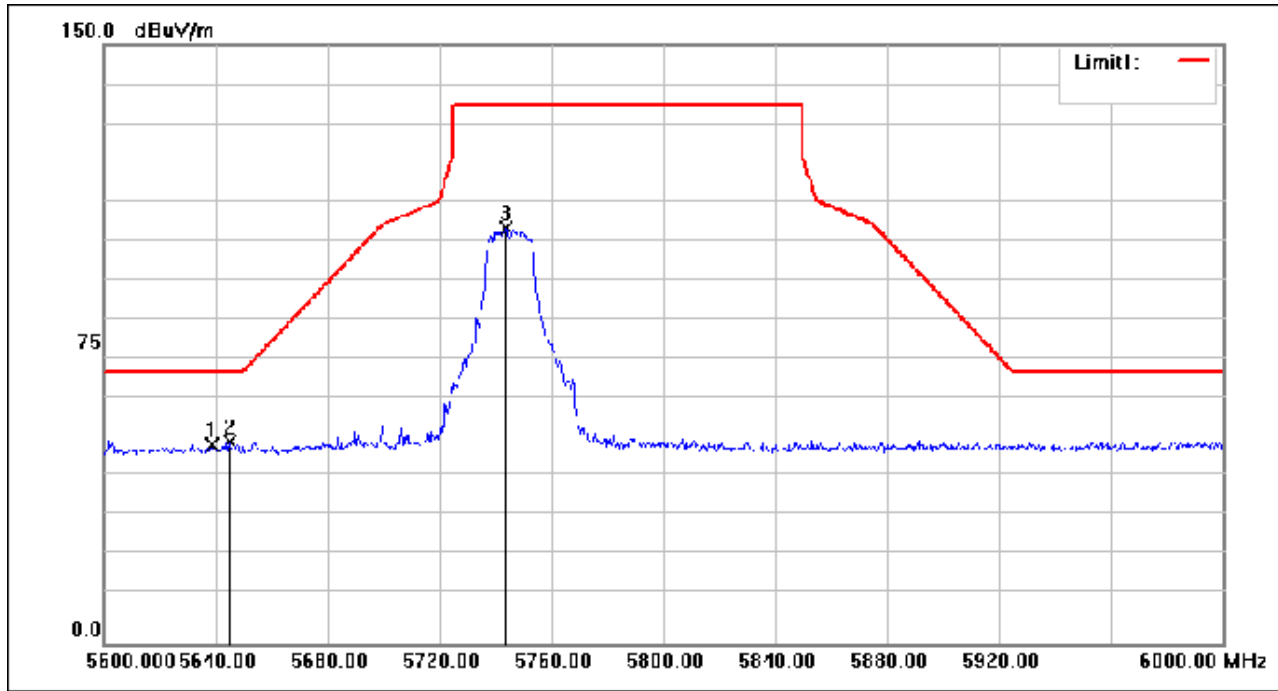
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5638.400	66.44	-16.64	49.80	68.20	-18.40	peak
2	5644.800	67.07	-16.63	50.44	68.20	-17.76	peak
3	5743.600	120.43	-16.49	103.94	135.00	-31.06	peak

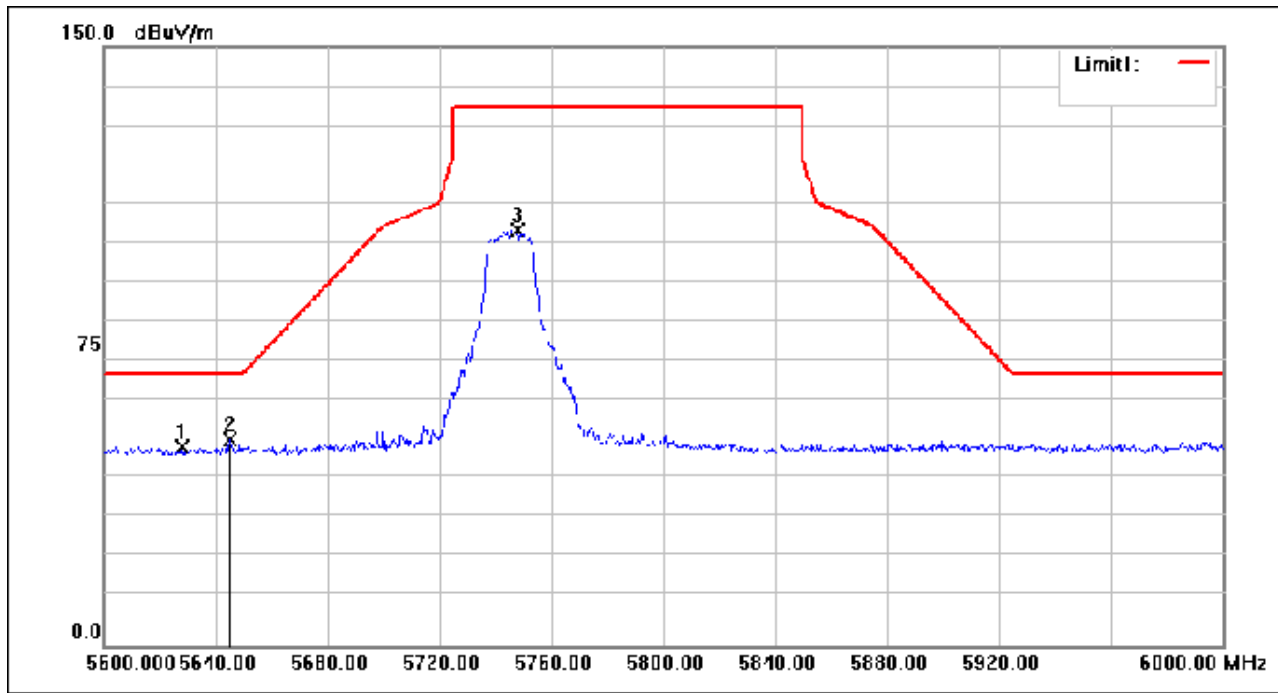
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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5628.000	66.51	-16.66	49.85	68.20	-18.35	peak
2	5644.800	68.18	-16.63	51.55	68.20	-16.65	peak
3	5748.000	120.65	-16.48	104.17	135.00	-30.83	peak

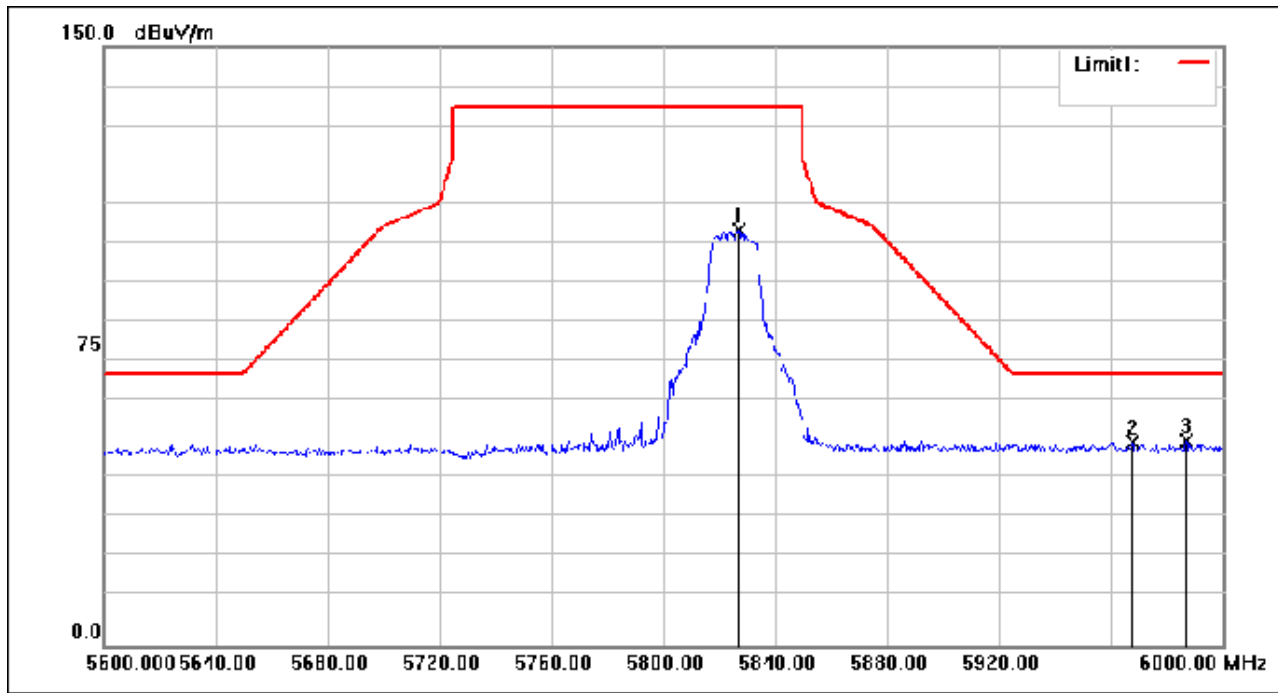
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Test Mode: 08; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.800	120.29	-16.31	103.98	135.00	-31.02	peak
2	5967.600	66.49	-15.79	50.70	68.20	-17.50	peak
3	5986.800	67.03	-15.71	51.32	68.20	-16.88	peak

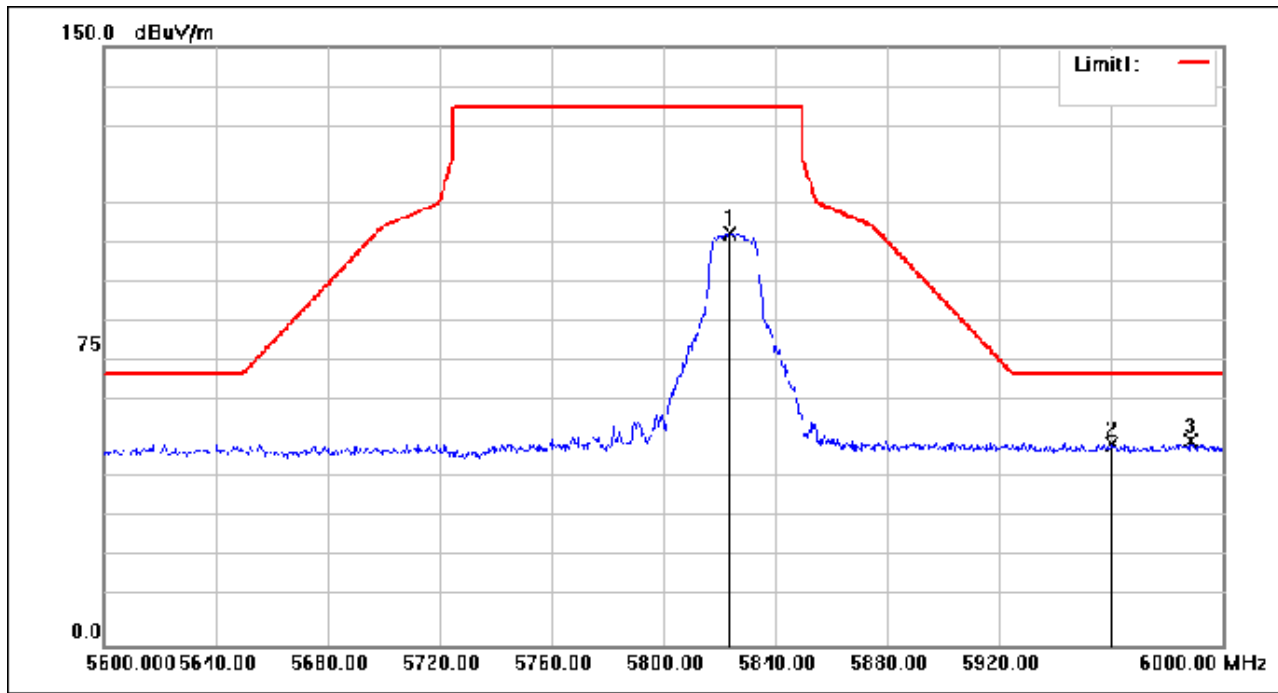
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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5823.600	119.77	-16.31	103.46	135.00	-31.54	peak
2	5960.400	66.21	-15.82	50.39	68.20	-17.81	peak
3	5988.400	67.07	-15.70	51.37	68.20	-16.83	peak

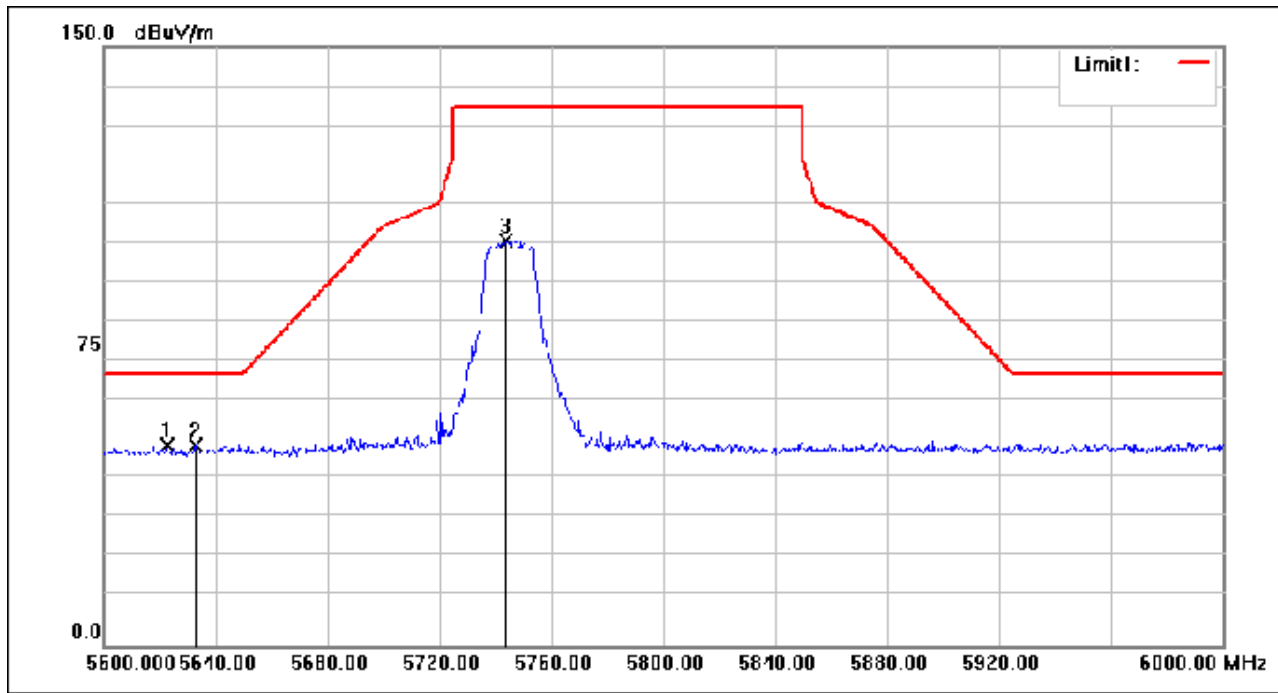
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5622.400	66.68	-16.66	50.02	68.20	-18.18	peak
2	5632.800	66.83	-16.65	50.18	68.20	-18.02	peak
3	5743.600	118.10	-16.49	101.61	135.00	-33.39	peak

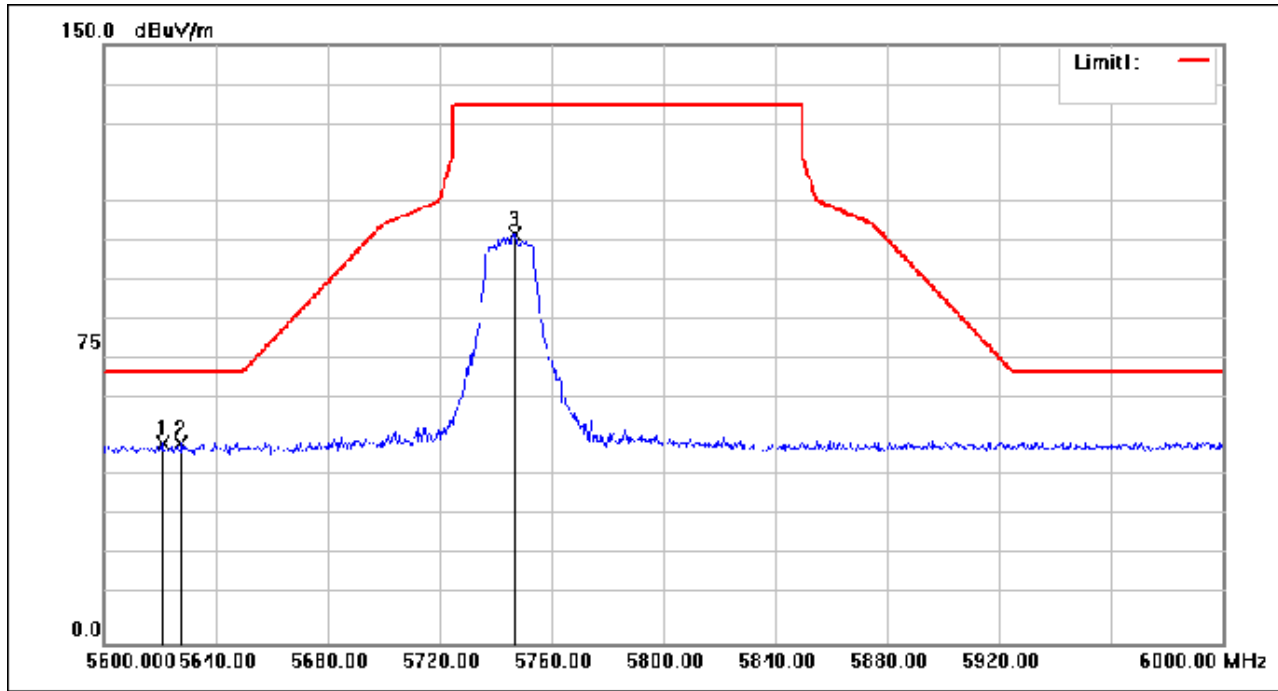
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5620.800	66.63	-16.67	49.96	68.20	-18.24	peak
2	5627.600	66.86	-16.66	50.20	68.20	-18.00	peak
3	5746.800	118.99	-16.48	102.51	135.00	-32.49	peak

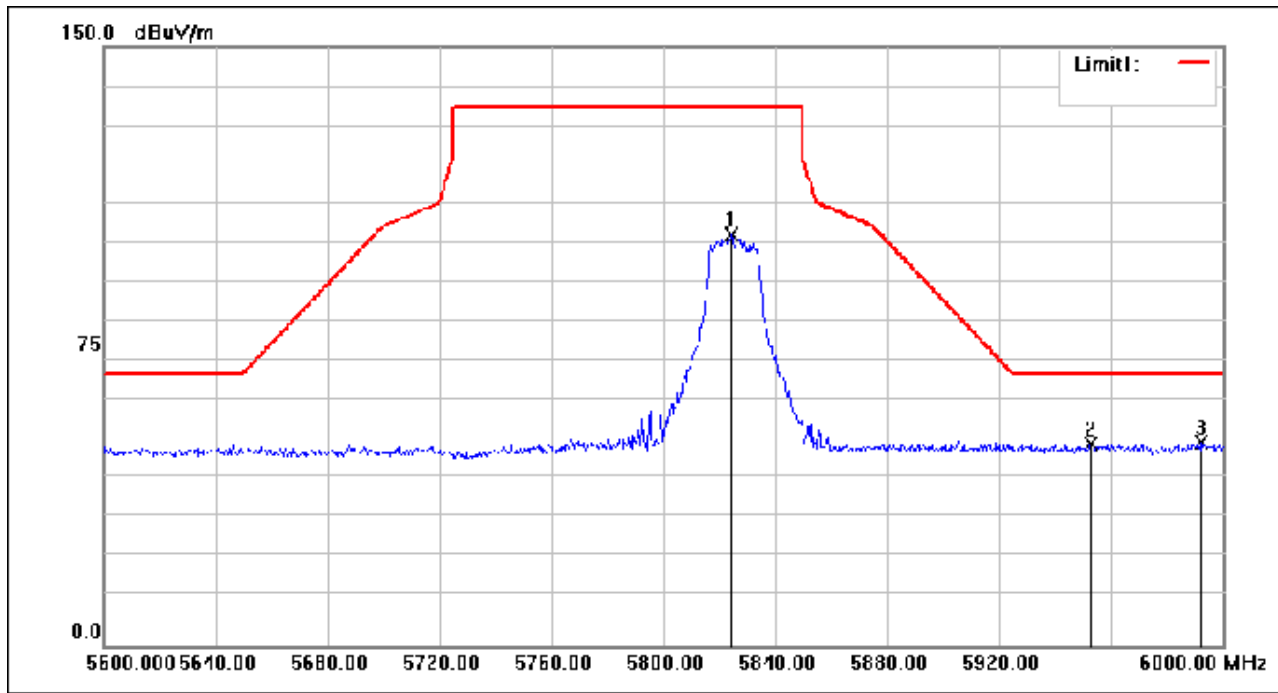
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Test Mode: 08; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5824.400	119.09	-16.31	102.78	135.00	-32.22	peak
2	5952.800	66.20	-15.85	50.35	68.20	-17.85	peak
3	5992.400	66.45	-15.69	50.76	68.20	-17.44	peak

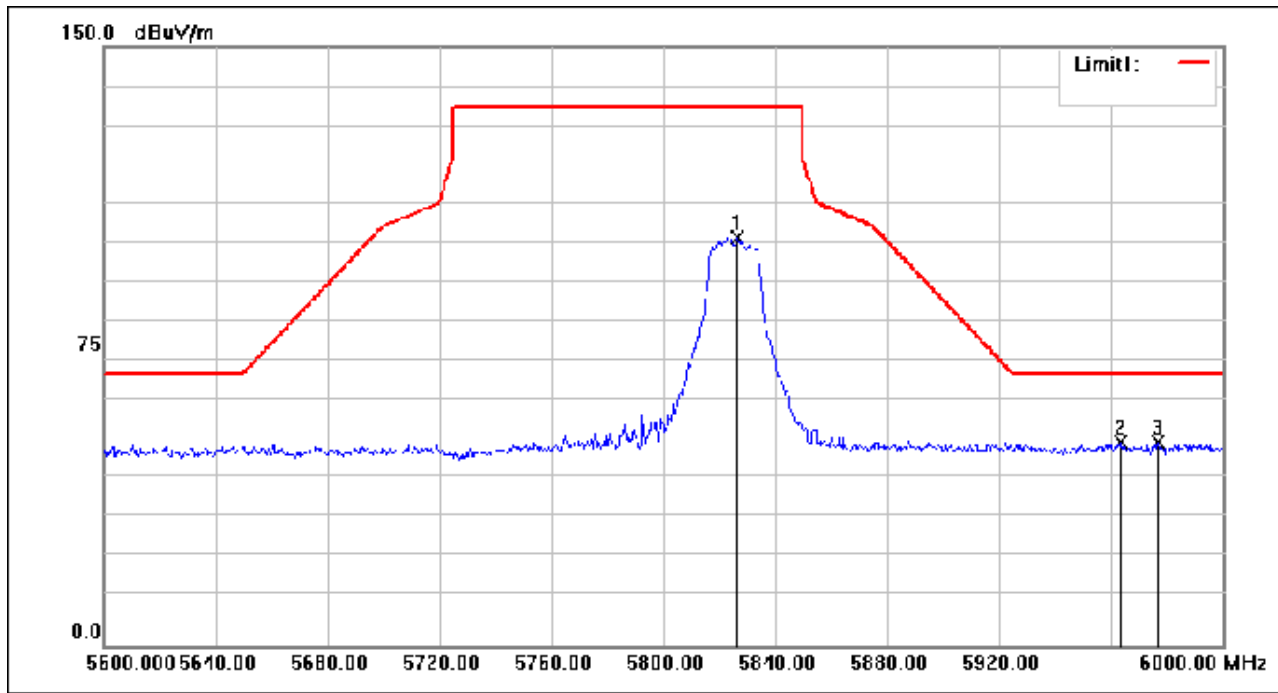
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.400	118.53	-16.31	102.22	135.00	-32.78	peak
2	5963.600	66.44	-15.80	50.64	68.20	-17.56	peak
3	5976.800	66.53	-15.75	50.78	68.20	-17.42	peak

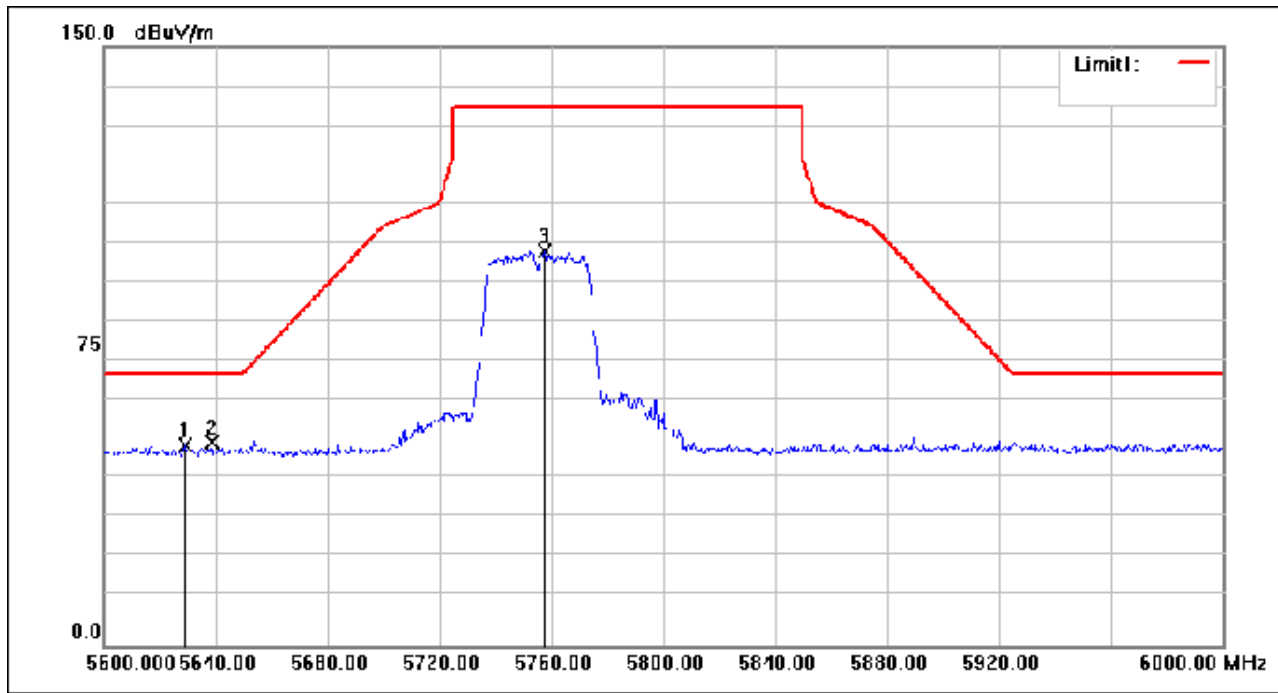
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5628.800	66.74	-16.66	50.08	68.20	-18.12	peak
2	5638.800	67.33	-16.64	50.69	68.20	-17.51	peak
3	5757.600	115.27	-16.45	98.82	135.00	-36.18	peak

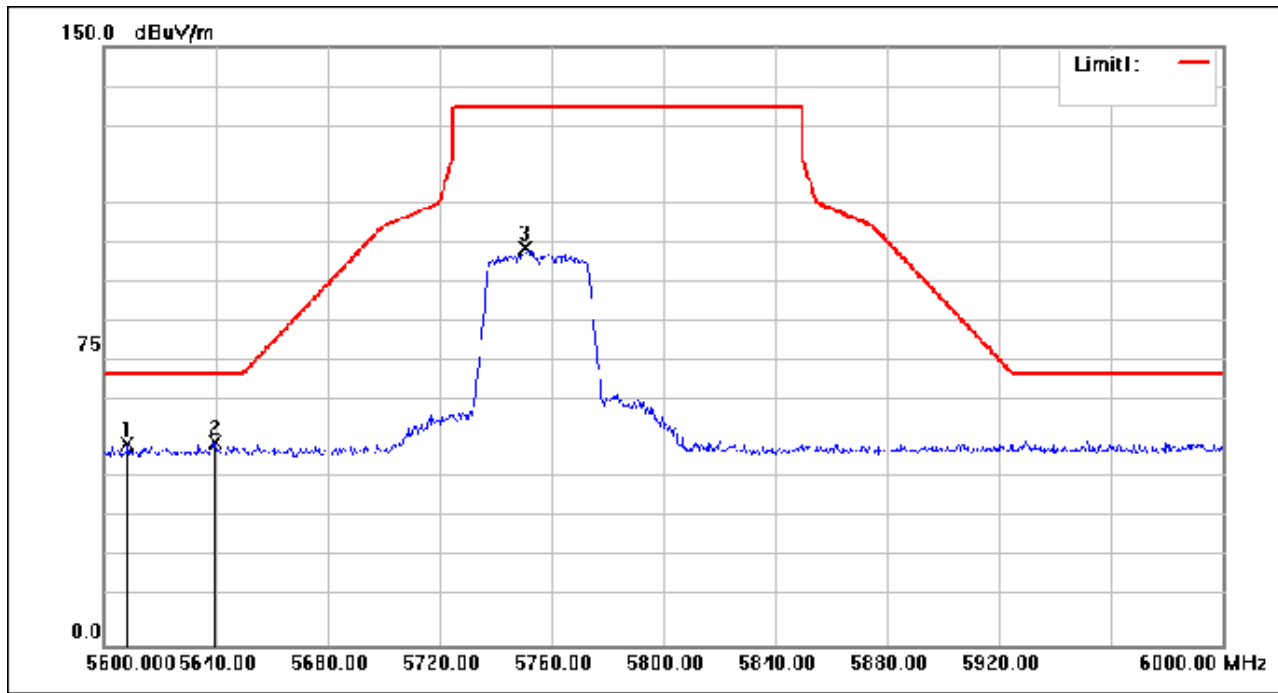
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5608.400	66.94	-16.68	50.26	68.20	-17.94	peak
2	5639.600	67.37	-16.64	50.73	68.20	-17.47	peak
3	5750.800	115.85	-16.47	99.38	135.00	-35.62	peak

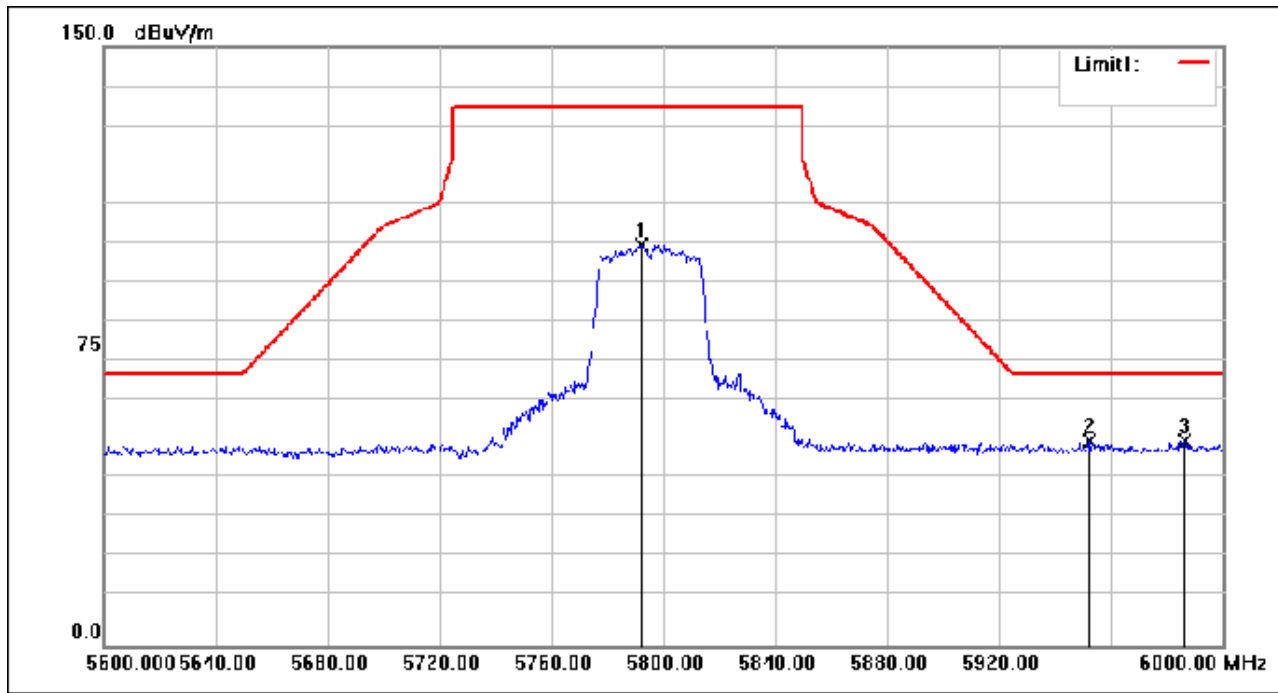
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Test Mode: 08; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5792.000	116.74	-16.39	100.35	135.00	-34.65	peak
2	5952.400	66.92	-15.85	51.07	68.20	-17.13	peak
3	5986.400	66.94	-15.71	51.23	68.20	-16.97	peak

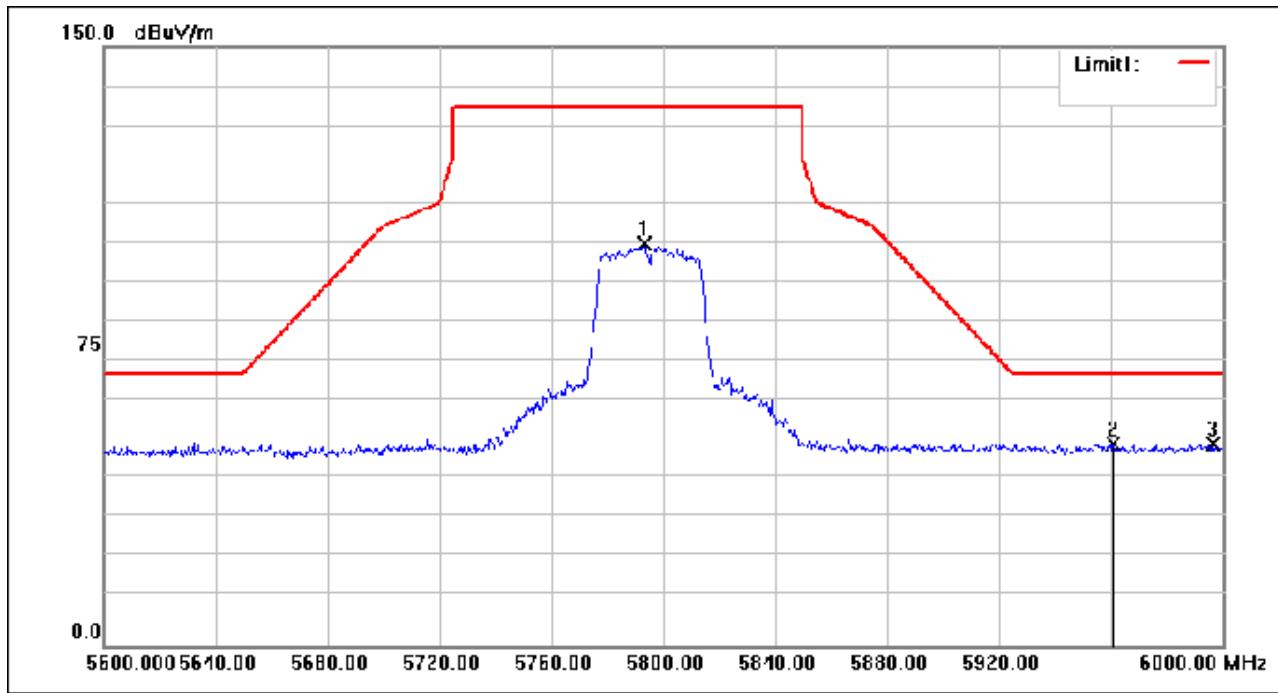
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5793.200	117.04	-16.38	100.66	135.00	-34.34	peak
2	5960.800	66.14	-15.81	50.33	68.20	-17.87	peak
3	5996.400	66.12	-15.67	50.45	68.20	-17.75	peak

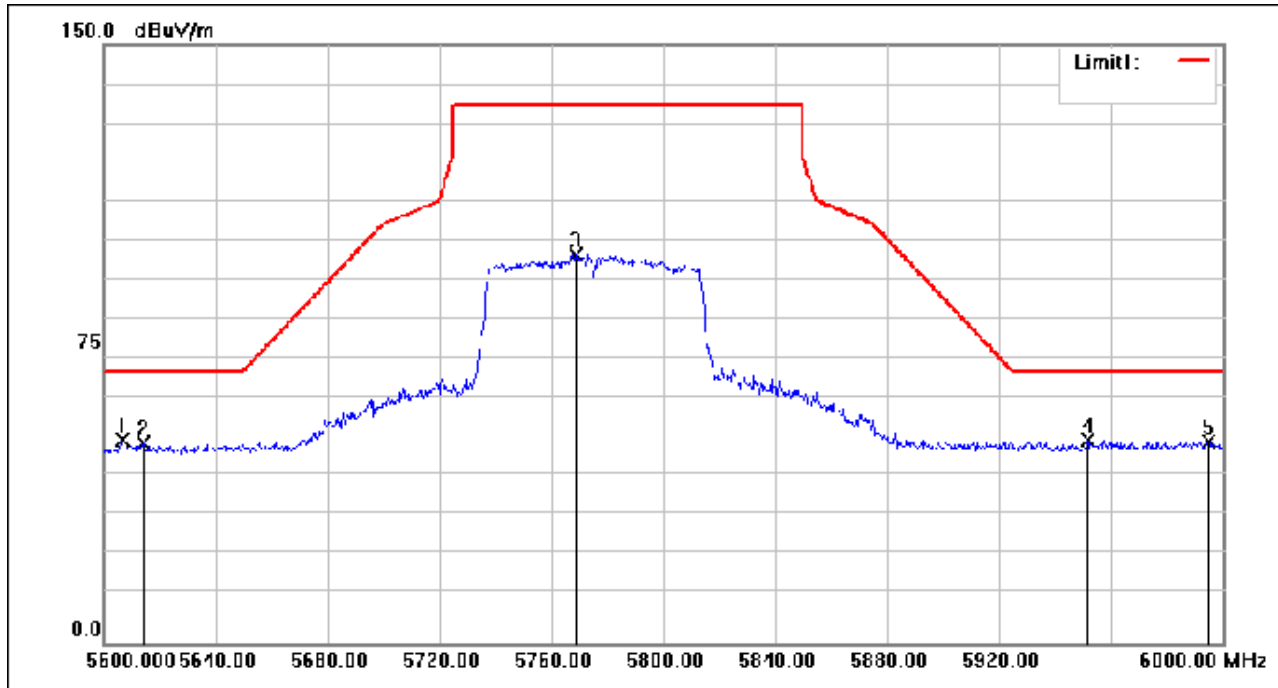
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5606.400	67.33	-16.69	50.64	68.20	-17.56	peak
2	5614.000	66.82	-16.68	50.14	68.20	-18.06	peak
3	5768.800	113.90	-16.43	97.47	135.00	-37.53	peak
4	5951.600	66.85	-15.85	51.00	68.20	-17.20	peak
5	5994.800	66.19	-15.67	50.52	68.20	-17.68	peak

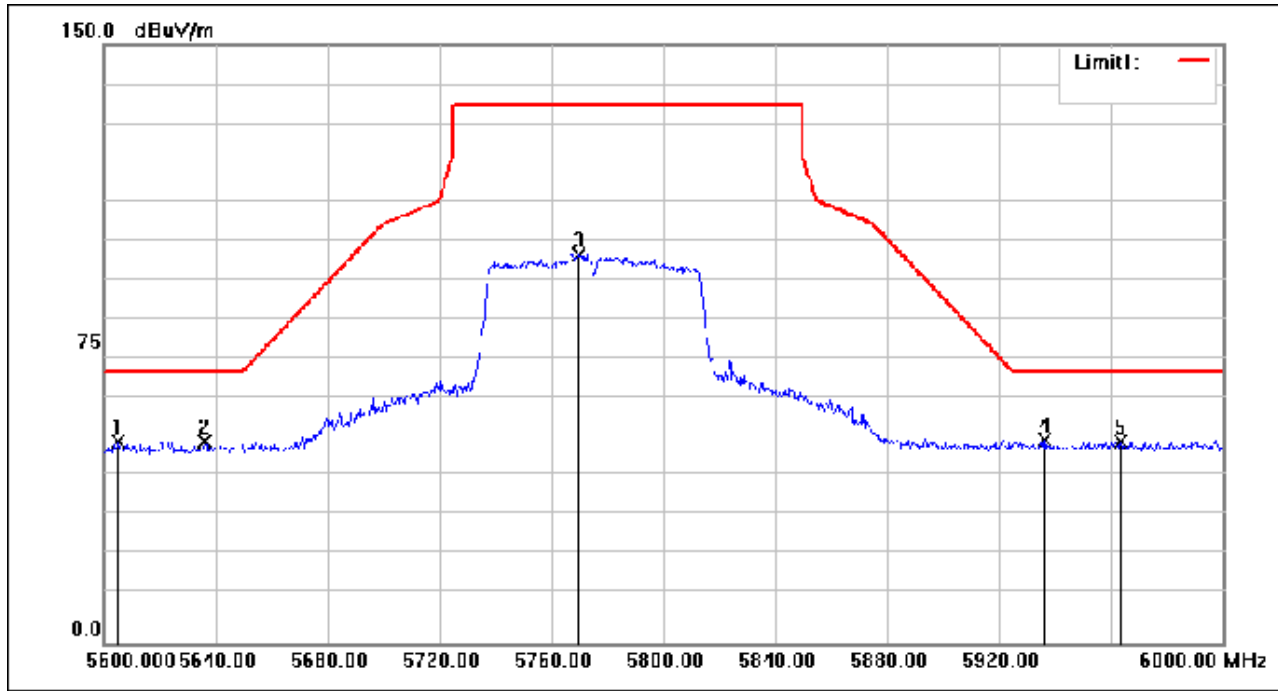
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5605.200	66.98	-16.69	50.29	68.20	-17.91	peak
2	5636.000	66.92	-16.65	50.27	68.20	-17.93	peak
3	5769.600	113.88	-16.43	97.45	135.00	-37.55	peak
4	5936.400	66.76	-15.91	50.85	68.20	-17.35	peak
5	5963.200	66.27	-15.80	50.47	68.20	-17.73	peak



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7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

Humidity: 52.2 % RH

Atmospheric Pressure: 1010 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.11.3 Measurement Procedure and Data

Please Refer to Appendix for Details

7.12 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required
Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.			

7.12.1 E.U.T. Operation

Operating Environment:

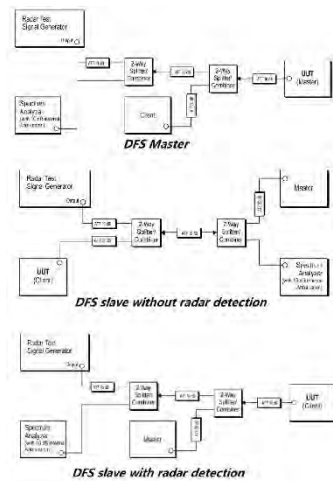
Temperature: 24.7 °C Humidity: 52.2 % RH Atmospheric Pressure: 1010 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is

		recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

7.13 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required
Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.			

7.13.1 E.U.T. Operation

Operating Environment:

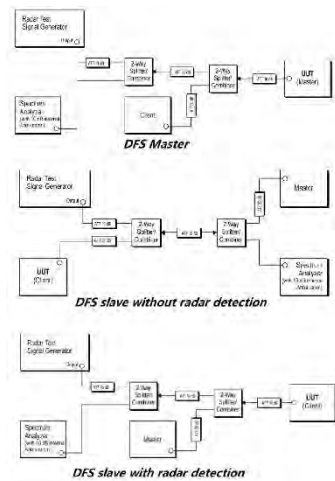
Temperature: 24.7 °C Humidity: 52.2 % RH Atmospheric Pressure: 1010 mbar

7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is

		recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.13.3 Test Setup Diagram





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7.13.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

7.14 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required
Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.			

7.14.1 E.U.T. Operation

Operating Environment:

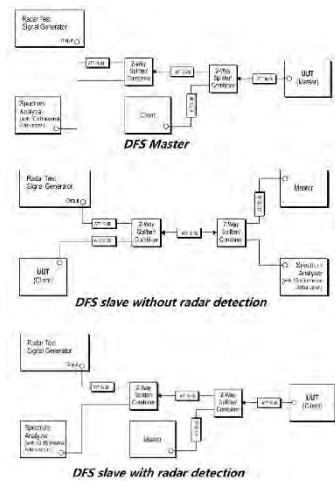
Temperature: 24.7 °C Humidity: 52.2 % RH Atmospheric Pressure: 1010 mbar

7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is

		recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.14.3 Test Setup Diagram



7.14.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2401000081AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2401000081AT



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10 Appendix

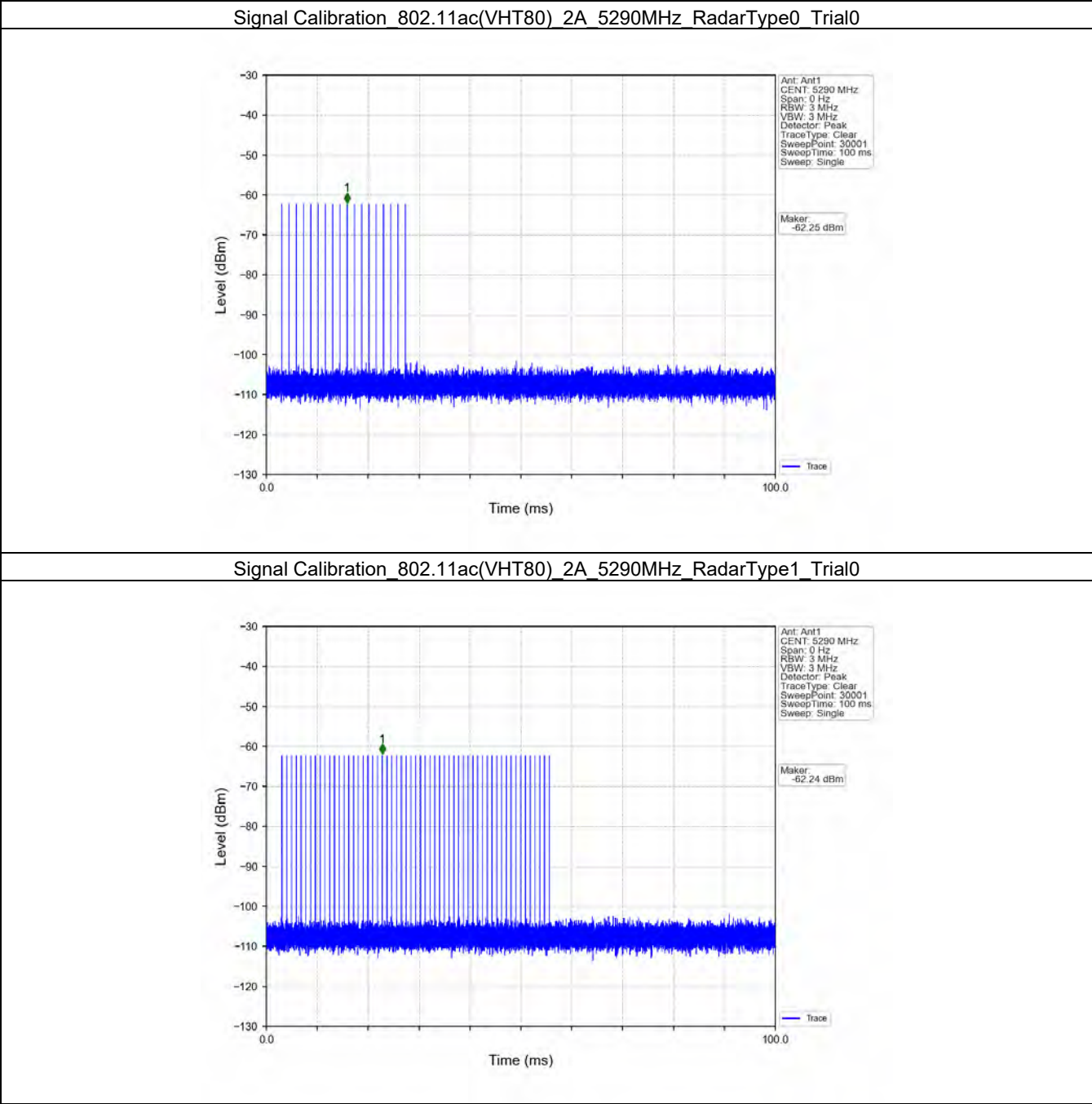
1. Signal Calibration

1.1 SC

1.1.1 Test Result

Band: 2A						
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal		Signal Calibration	
			Type	Trial Id	Result	Limit
802.11ac (VHT80)	80	5290	0	0	Refer To Test Graph	Pass
			1	0	Refer To Test Graph	Pass
			2	0	Refer To Test Graph	Pass
			3	0	Refer To Test Graph	Pass
			4	0	Refer To Test Graph	Pass
			5	0	Refer To Test Graph	Pass
			6	0	Refer To Test Graph	Pass

1.1.2 Test Graph



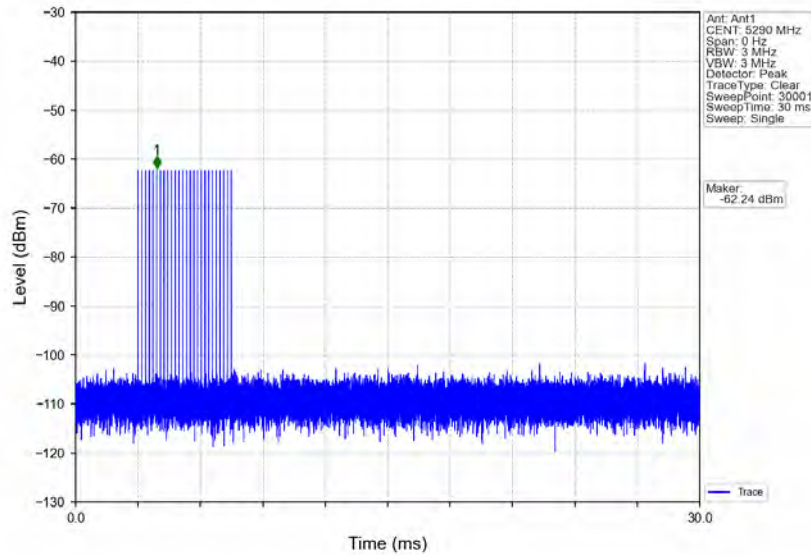
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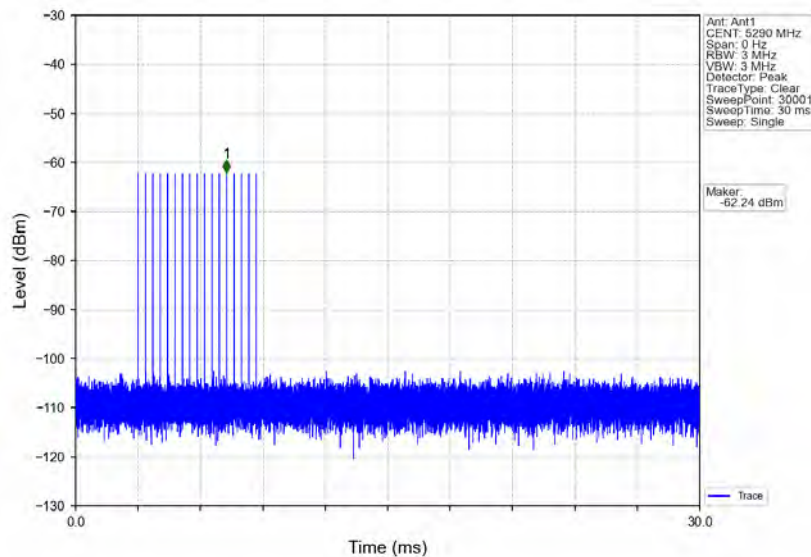
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Signal Calibration 802.11ac(VHT80) 2A 5290MHz RadarType2 Trial0



Signal Calibration 802.11ac(VHT80) 2A 5290MHz RadarType3 Trial0



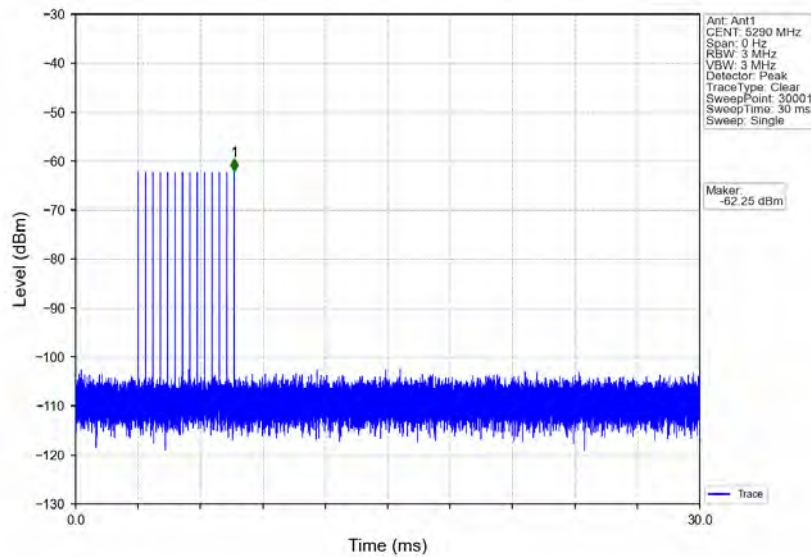
Compliance Certification Services (Kunshan) Inc.

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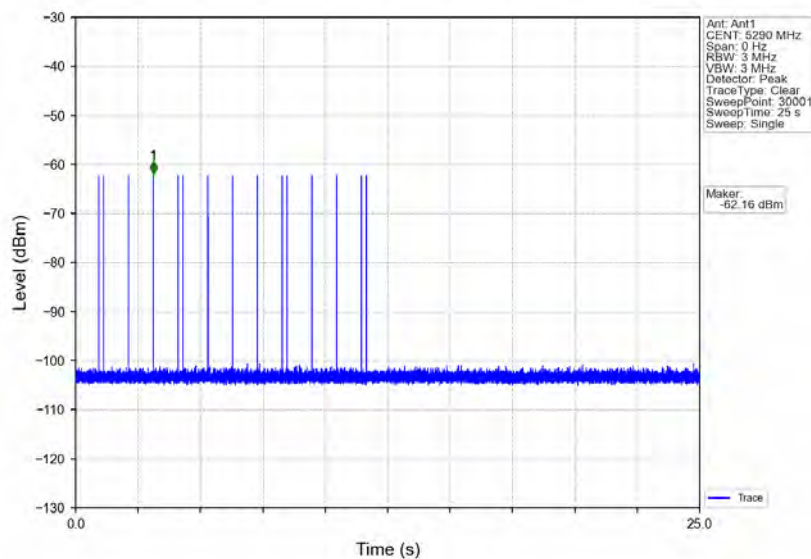
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Signal Calibration 802.11ac(VHT80) 2A 5290MHz RadarType4 Trial0



Signal Calibration 802.11ac(VHT80) 2A 5290MHz RadarType5 Trial0





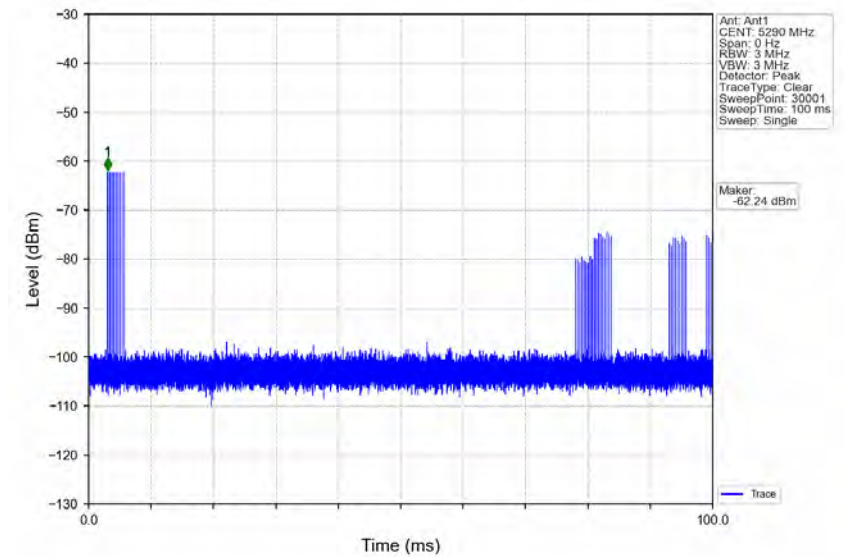
Compliance Certification Services (Kunshan) Inc.

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Signal Calibration 802.11ac(VHT80) 2A 5290MHz RadarType6 Trial0





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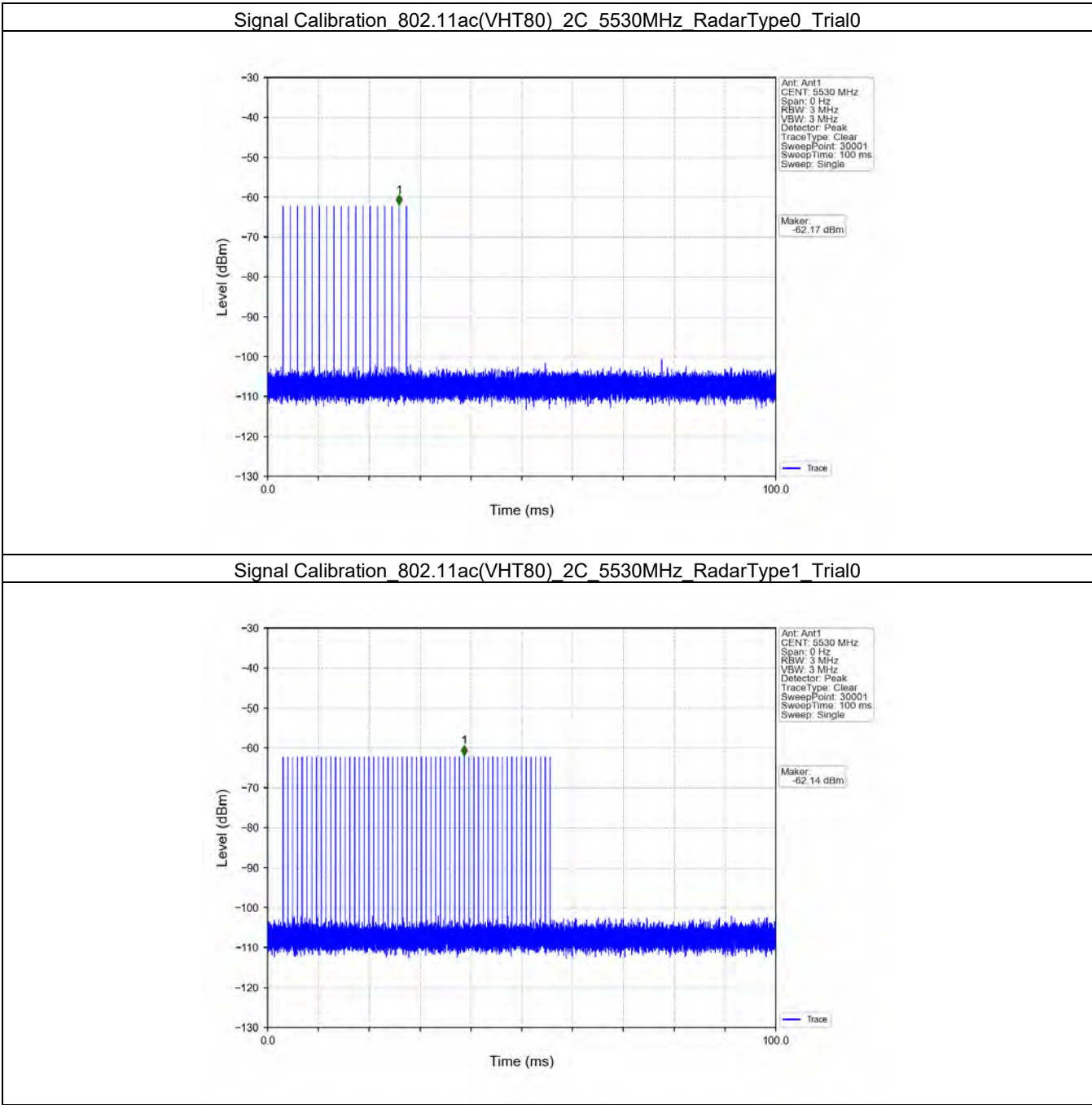
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1.2 SC

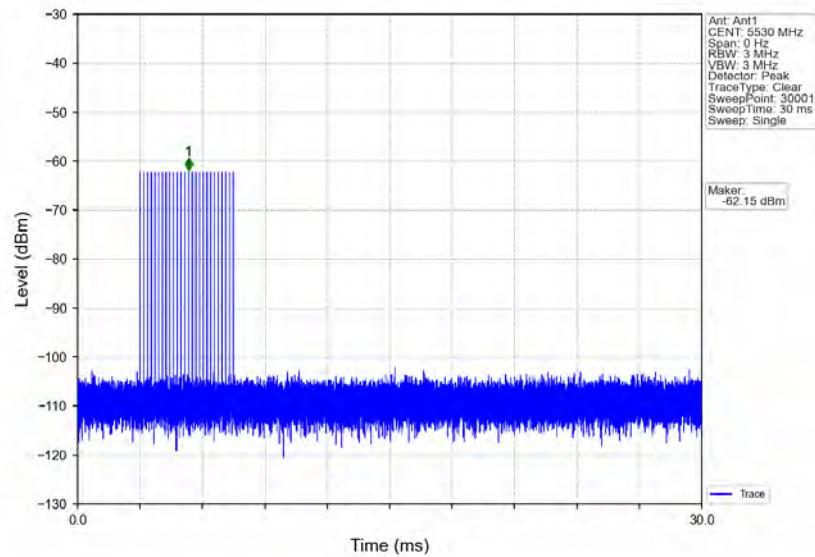
1.2.1 Test Result

Band: 2C						
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal		Signal Calibration	
			Type	Trial Id	Result	Limit
802.11ac (VHT80)	80	5530	0	0	Refer To Test Graph	Pass
			1	0	Refer To Test Graph	Pass
			2	0	Refer To Test Graph	Pass
			3	0	Refer To Test Graph	Pass
			4	0	Refer To Test Graph	Pass
			5	0	Refer To Test Graph	Pass
			6	0	Refer To Test Graph	Pass

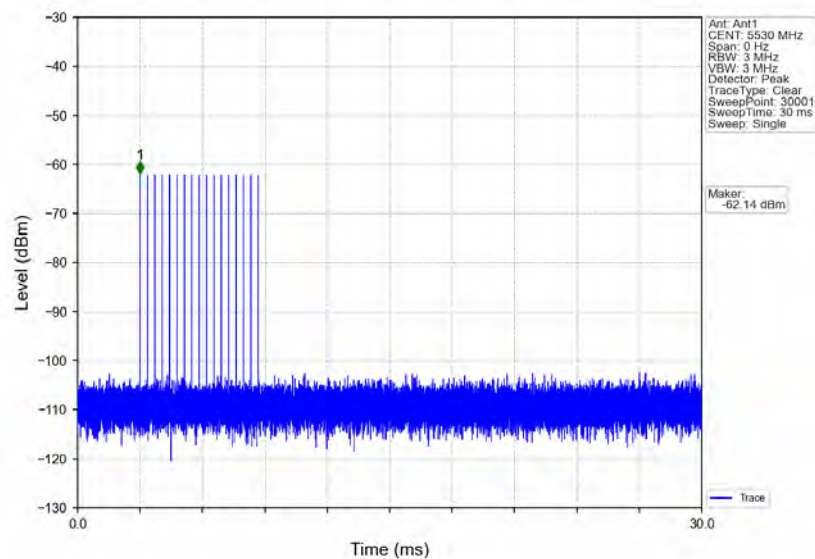
1.2.2 Test Graph



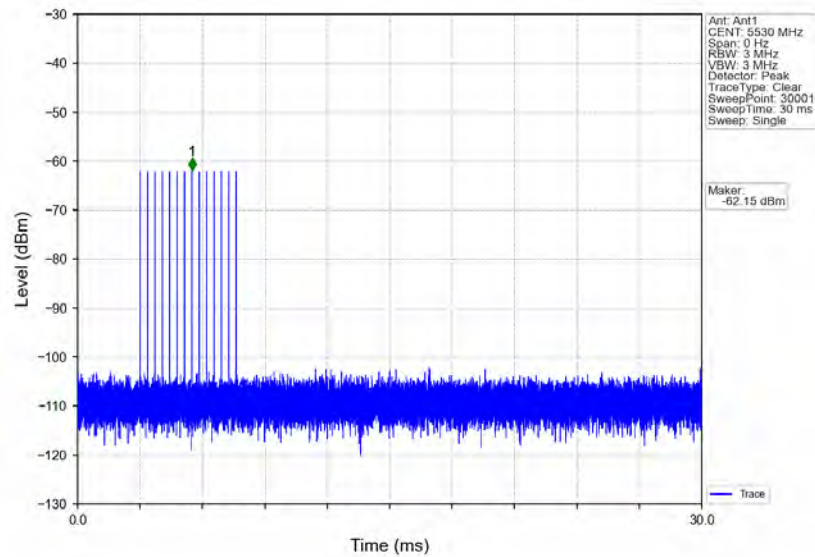
Signal Calibration 802.11ac(VHT80) 2C 5530MHz RadarType2 Trial0



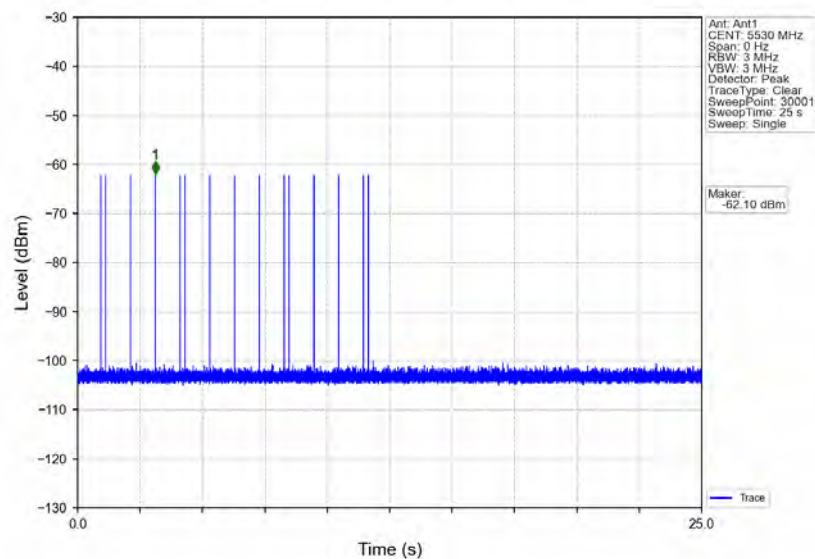
Signal Calibration 802.11ac(VHT80) 2C 5530MHz RadarType3 Trial0



Signal Calibration 802.11ac(VHT80) 2C 5530MHz RadarType4 Trial0



Signal Calibration 802.11ac(VHT80) 2C 5530MHz RadarType5 Trial0

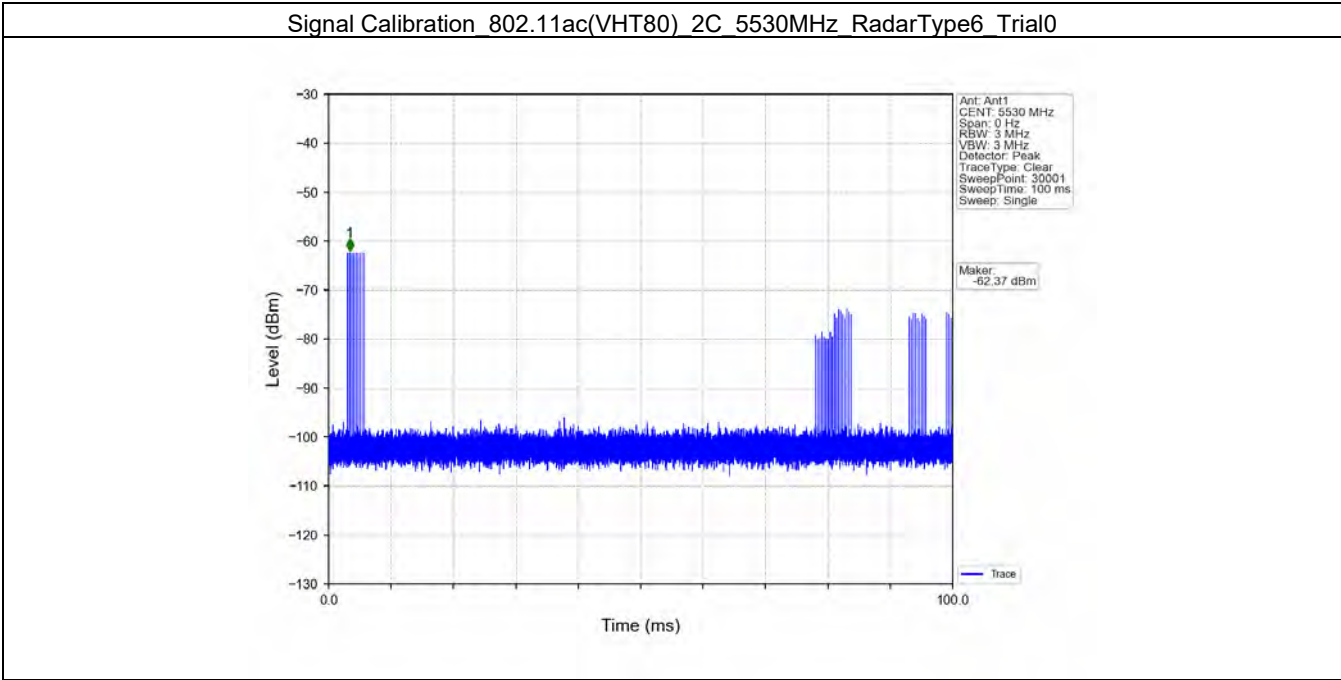


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2. Channel Loading (Payload)

2.1 Payload

2.1.1 Test Result

Band: 2A					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Loading (Payload) (%)		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5290	43.80	>=17	Pass



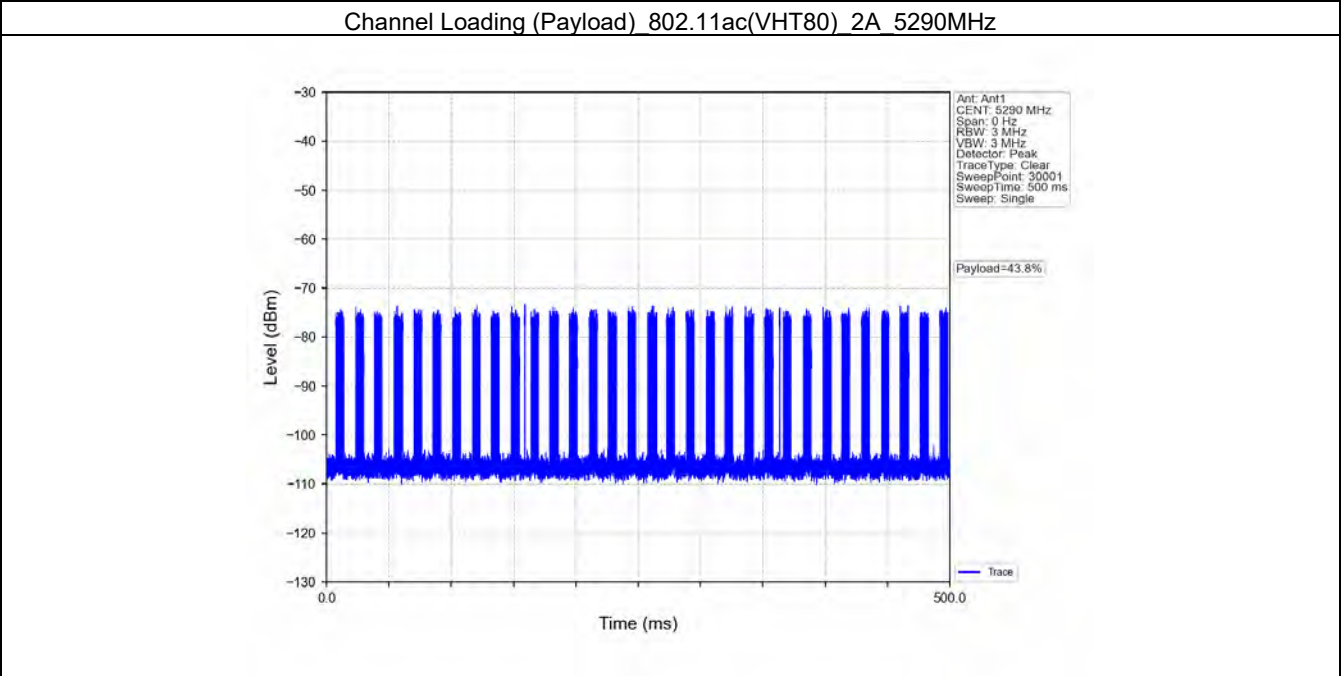
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2.1.2 Test Graph





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2.2 Payload

2.2.1 Test Result

Band: 2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Loading (Payload) (%)		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5530	41.47	>=17	Pass



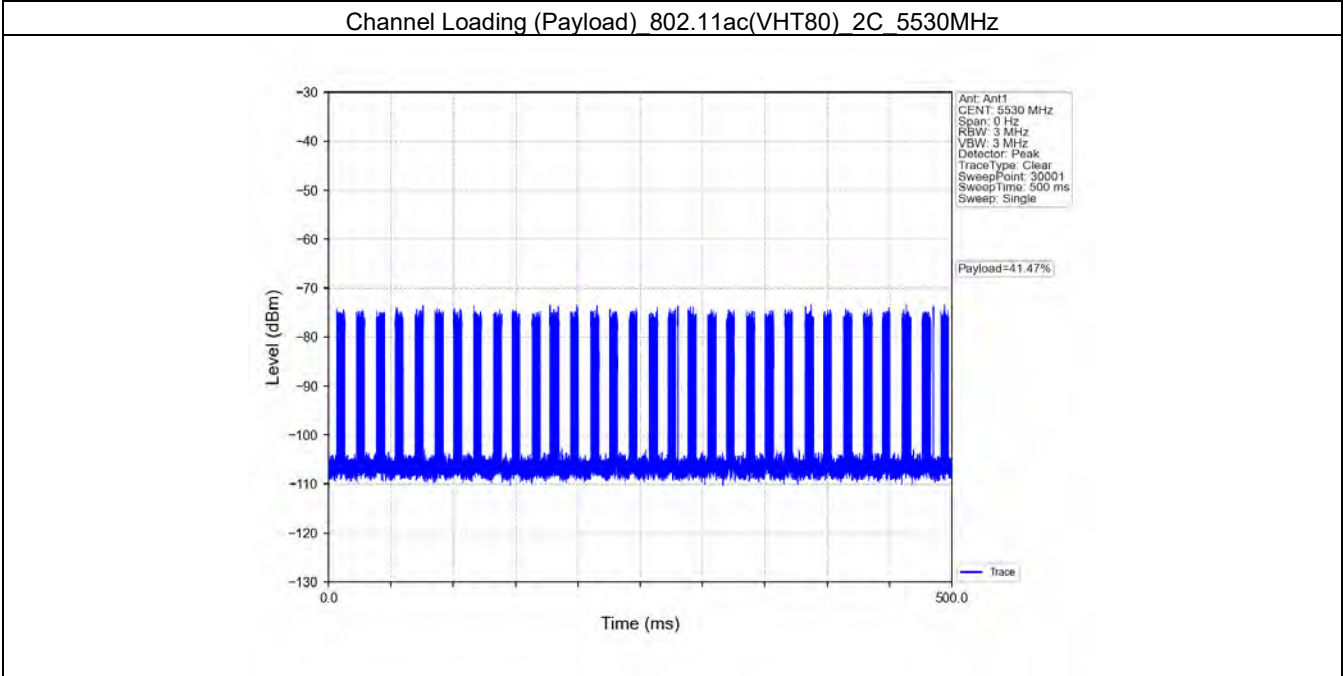
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2.2.2 Test Graph





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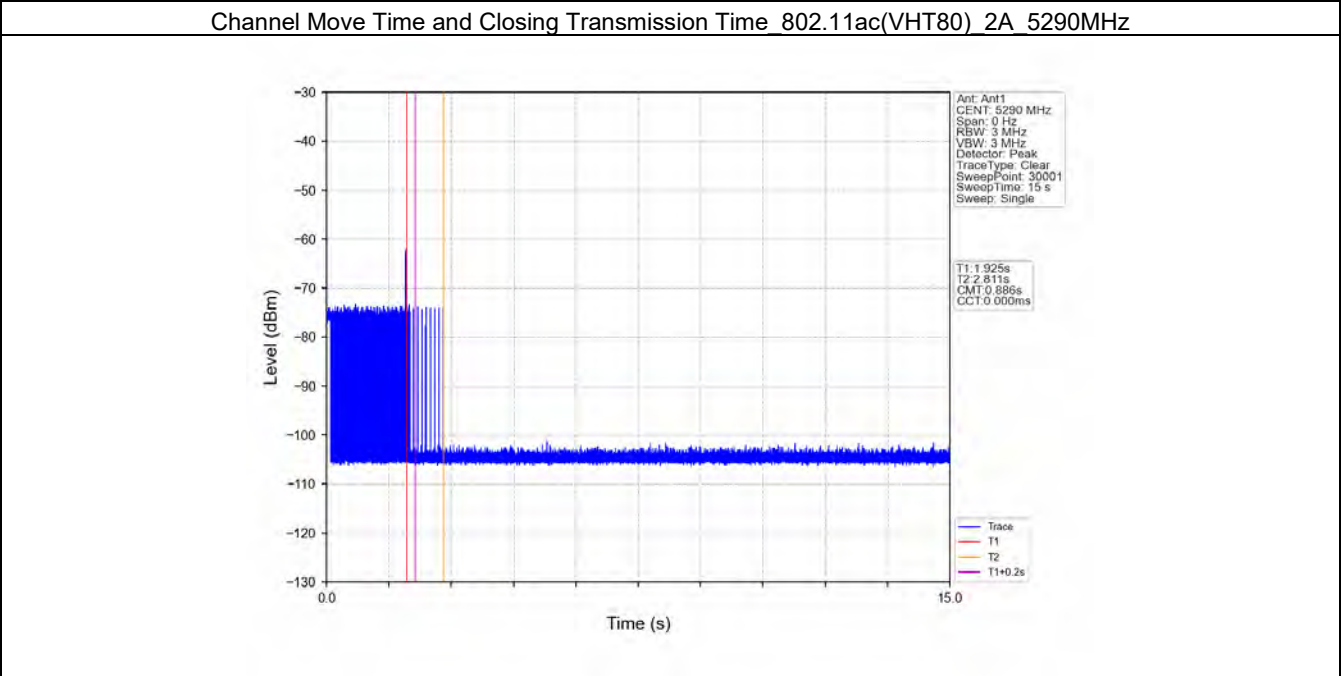
3. Channel Move Time and Closing Transmission Time

3.1 CMT_CTT

3.1.1 Test Result

Band: 2A					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Move Time and Closing Transmission Time		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5290	Refer To Test Graph		Pass

3.1.2 Test Graph





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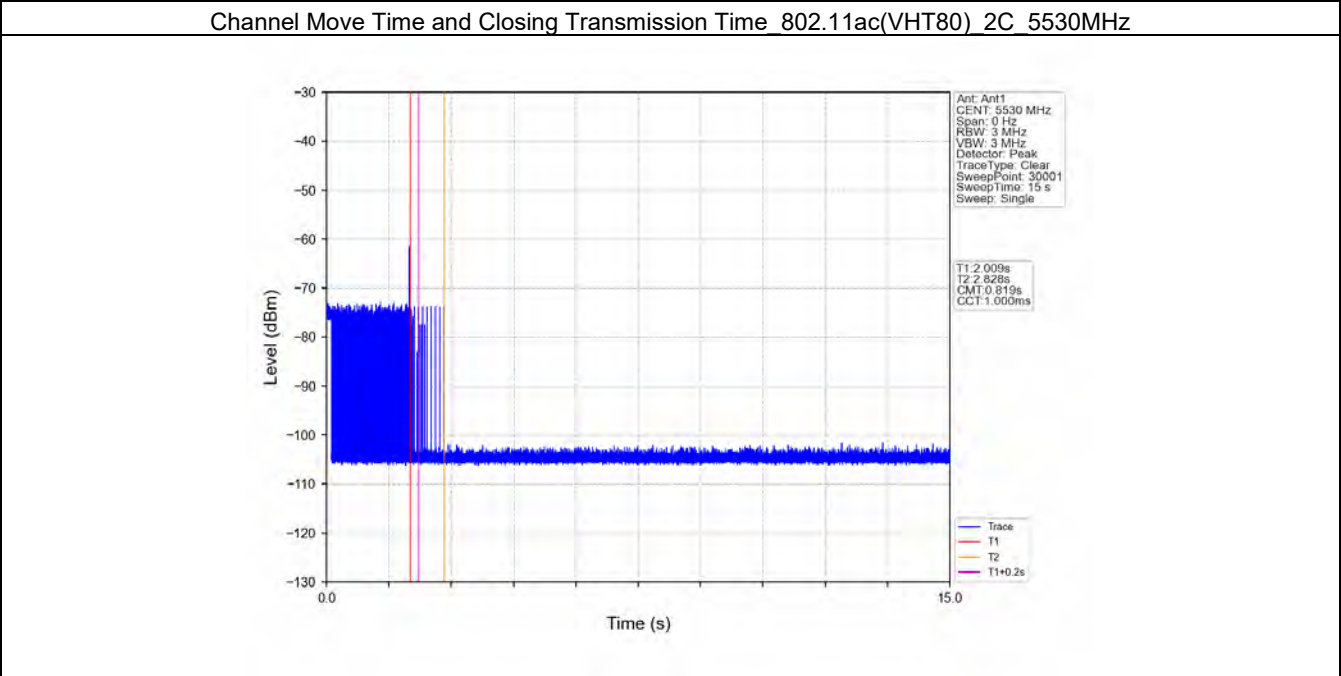
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3.2 CMT_CTT

3.2.1 Test Result

Band: 2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Move Time and Closing Transmission Time		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5530	Refer To Test Graph		Pass

3.2.2 Test Graph



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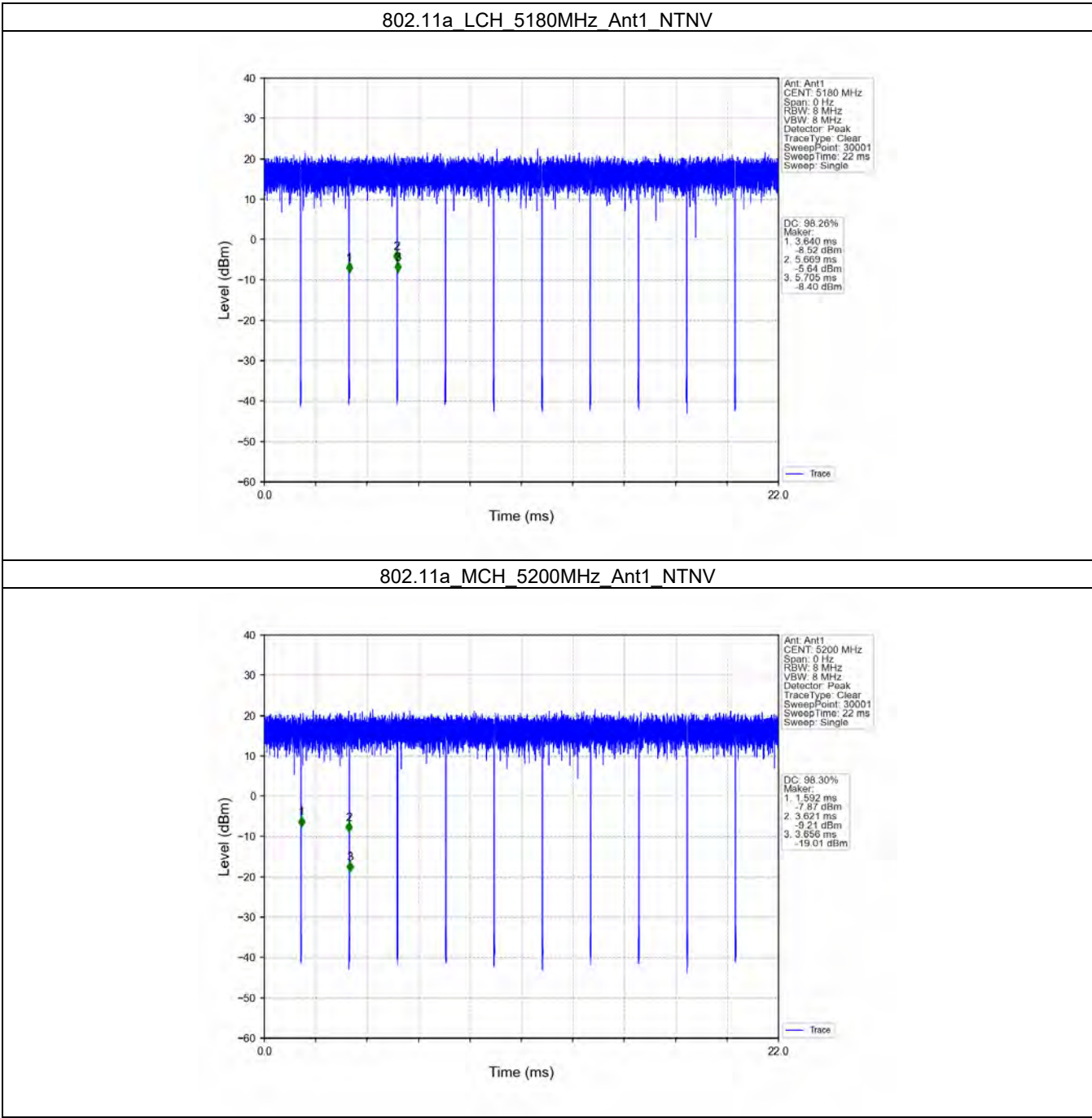
1. Duty Cycle

1.1 Ant1

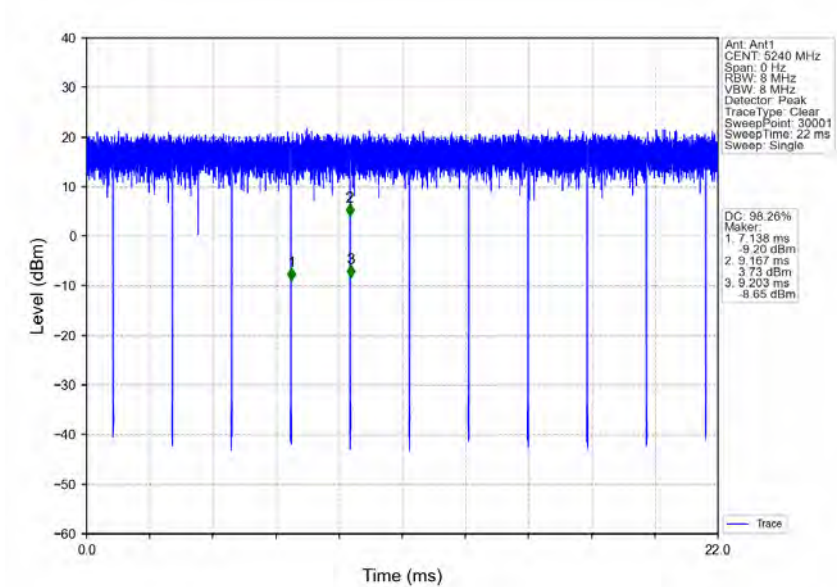
1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.029	2.065	98.26	0.08	0.04
		5200	2.029	2.064	98.30	0.07	0.00
		5240	2.029	2.065	98.26	0.08	0.04
		5260	2.029	2.065	98.26	0.08	0.04
		5300	2.029	2.065	98.26	0.08	0.04
		5320	2.029	2.065	98.26	0.08	0.04
		5500	2.030	2.066	98.26	0.08	0.03
		5580	2.030	2.066	98.26	0.08	0.07
		5700	2.030	2.065	98.31	0.07	0.03
		5745	2.030	2.065	98.31	0.07	0.04
		5785	2.029	2.064	98.30	0.07	0.00
		5825	2.029	2.065	98.26	0.08	0.04
802.11n (HT20)	SISO	5180	1.889	1.925	98.13	0.08	0.03
		5200	1.890	1.925	98.18	0.08	0.00
		5240	1.889	1.925	98.13	0.08	0.03
		5260	1.889	1.925	98.13	0.08	0.03
		5300	1.889	1.925	98.13	0.08	0.00
		5320	1.889	1.925	98.13	0.08	0.03
		5500	1.890	1.926	98.13	0.08	0.03
		5580	1.889	1.925	98.13	0.08	0.03
		5700	1.889	1.925	98.13	0.08	0.03
		5745	1.890	1.925	98.18	0.08	0.03
		5785	1.889	1.925	98.13	0.08	0.00
		5825	1.890	1.925	98.18	0.08	0.03
802.11n (HT40)	SISO	5190	0.929	0.964	96.37	0.16	0.03
		5230	0.929	0.964	96.37	0.16	0.00
		5270	0.929	0.964	96.37	0.16	0.03
		5310	0.929	0.964	96.37	0.16	0.07
		5510	0.929	0.964	96.37	0.16	0.03
		5550	0.930	0.964	96.47	0.16	0.00
		5670	0.929	0.964	96.37	0.16	0.03
		5755	0.929	0.964	96.37	0.16	0.07
		5795	0.930	0.964	96.47	0.16	0.03
802.11ac (VHT80)	SISO	5210	0.456	0.492	92.68	0.33	0.07
		5290	0.456	0.492	92.68	0.33	0.07
		5530	0.456	0.492	92.68	0.33	0.04
		5610	0.457	0.492	92.89	0.32	0.03
		5775	0.459	0.492	93.29	0.30	0.07

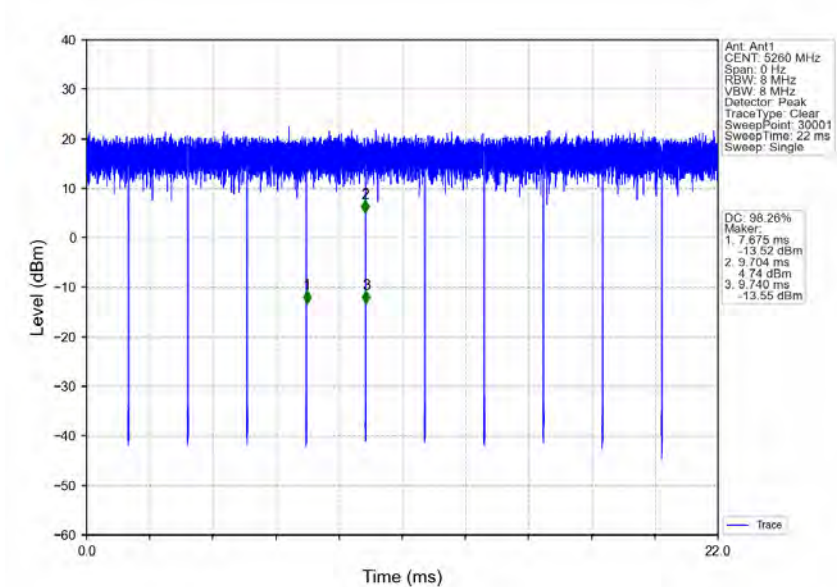
1.1.2 Test Graph



802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



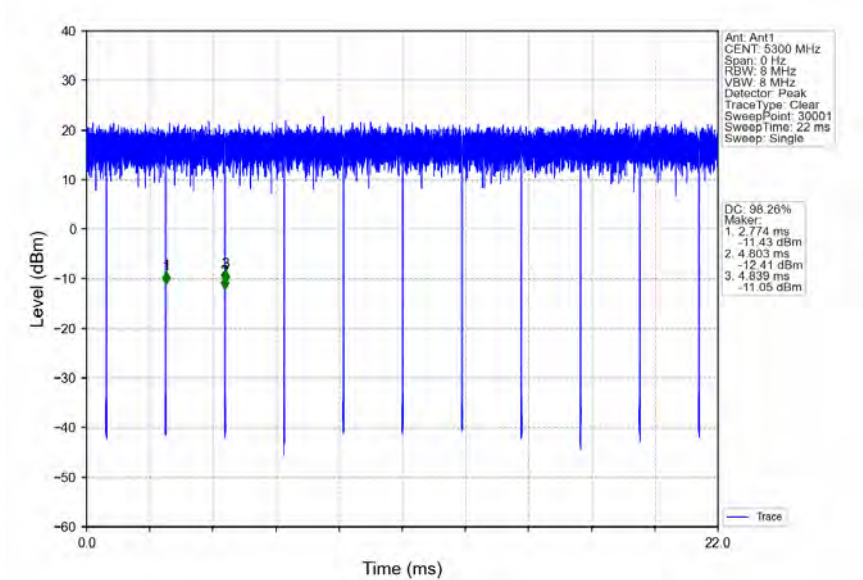
Compliance Certification Services (Kunshan) Inc.

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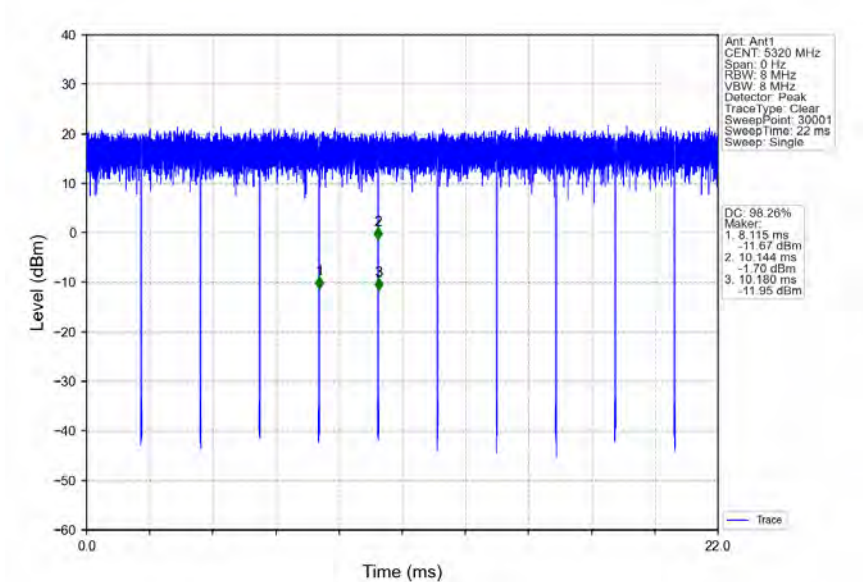
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802.11a MCH 5300MHz Ant1 NTN



802.11a HCH 5320MHz Ant1 NTN



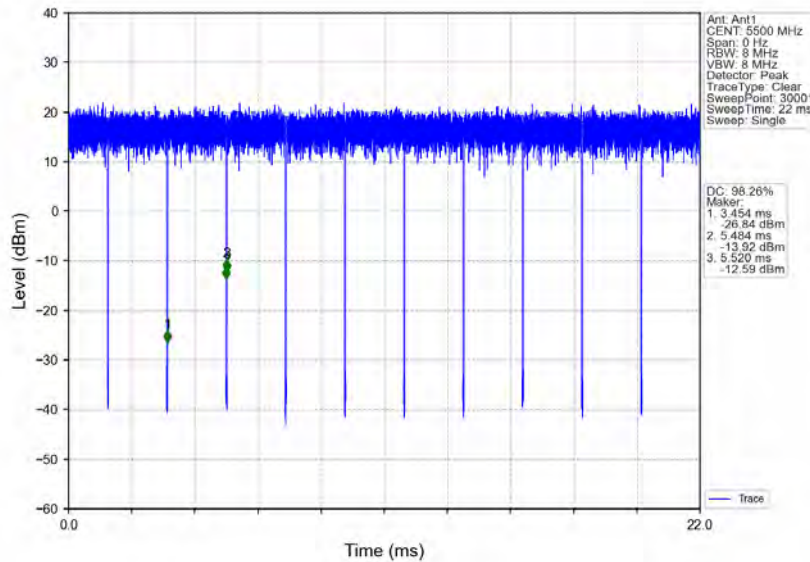
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

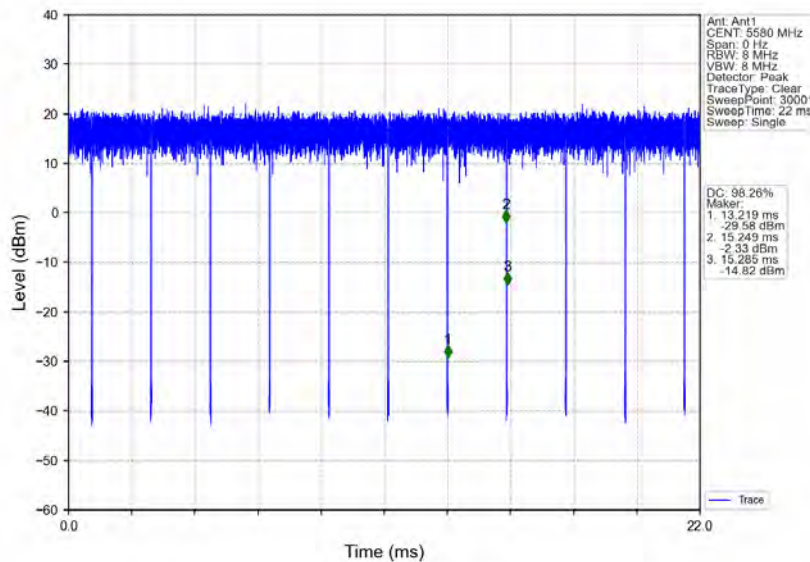
Report No.: KSCR240100008105

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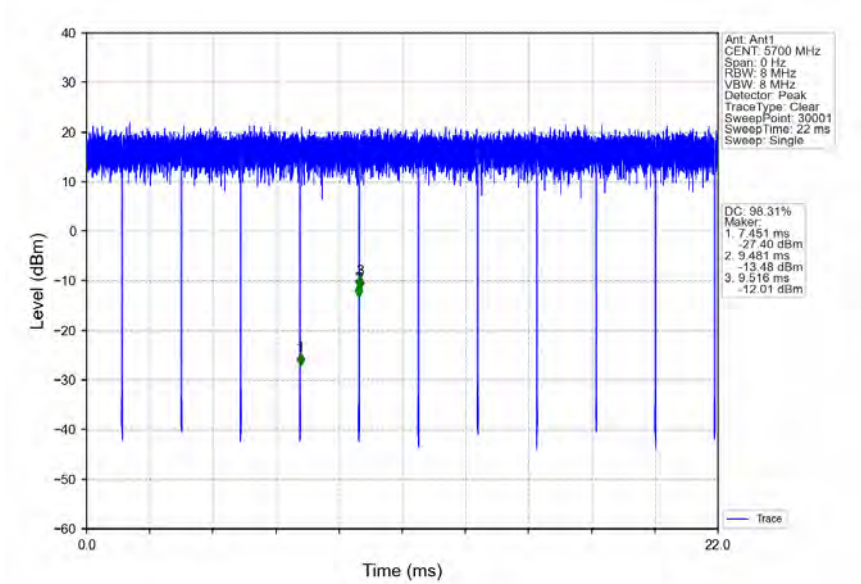
802.11a LCH 5500MHz Ant1 NTNV



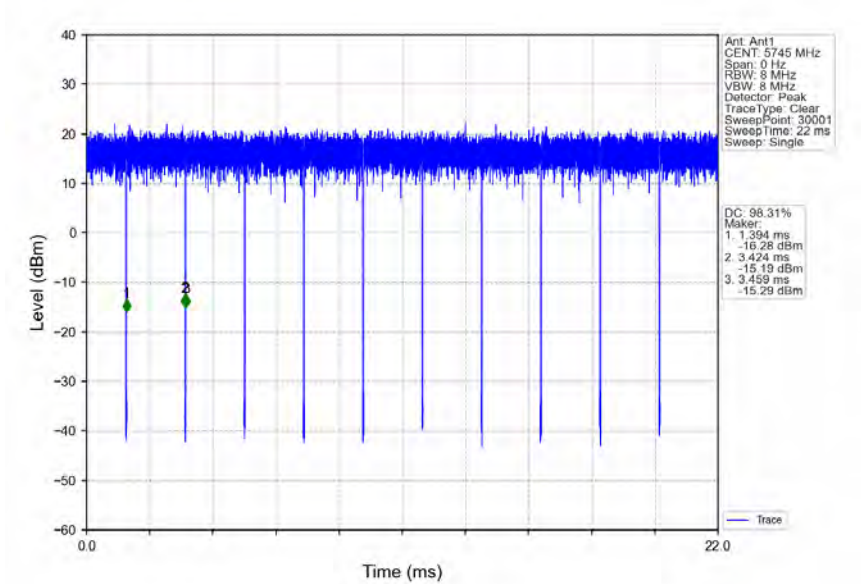
802.11a MCH 5580MHz Ant1 NTNV



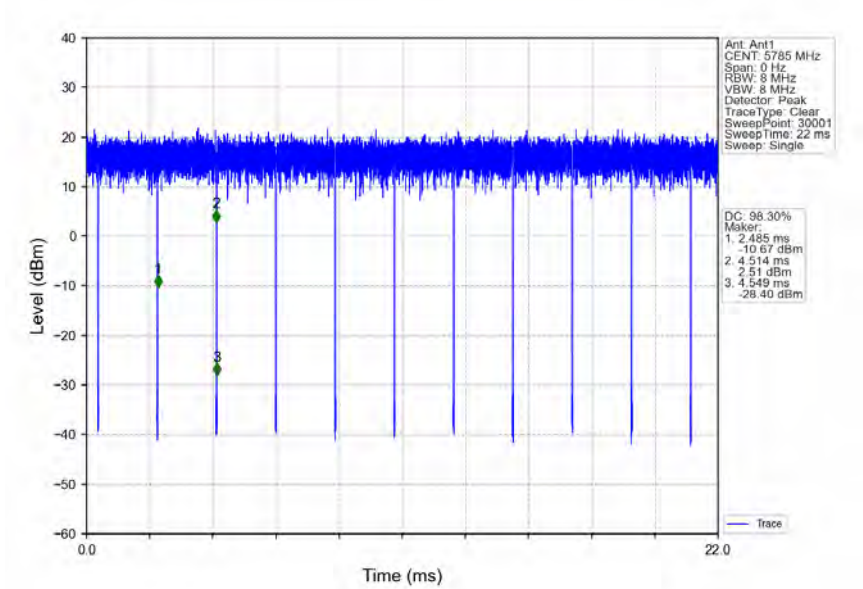
802.11a_HCH_5700MHz_Ant1_NTNV



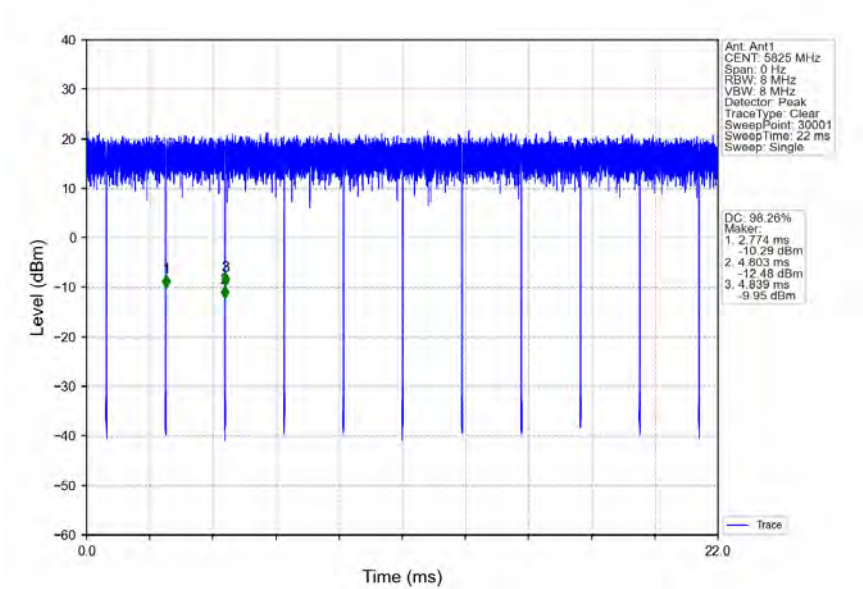
802.11a_LCH_5745MHz_Ant1_NTNV



802.11a MCH 5785MHz Ant1 NTN



802.11a HCH 5825MHz Ant1 NTN



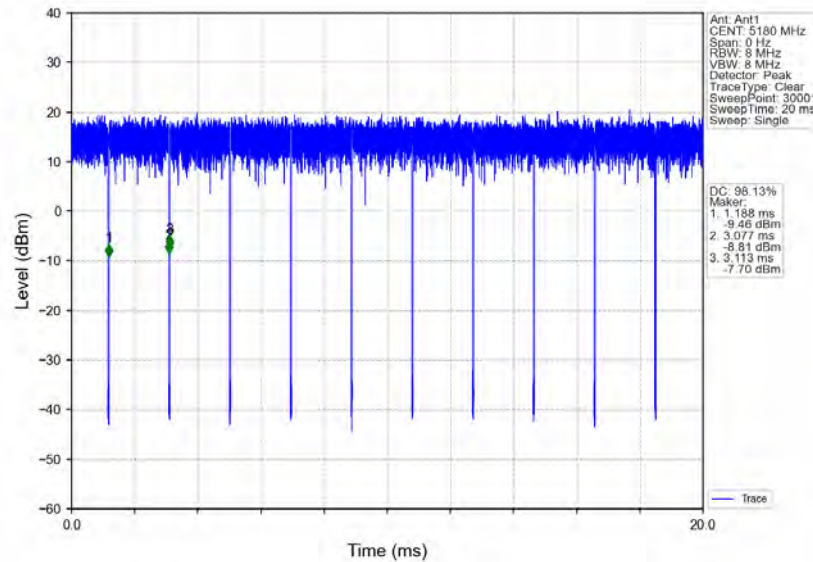
Compliance Certification Services (Kunshan) Inc.

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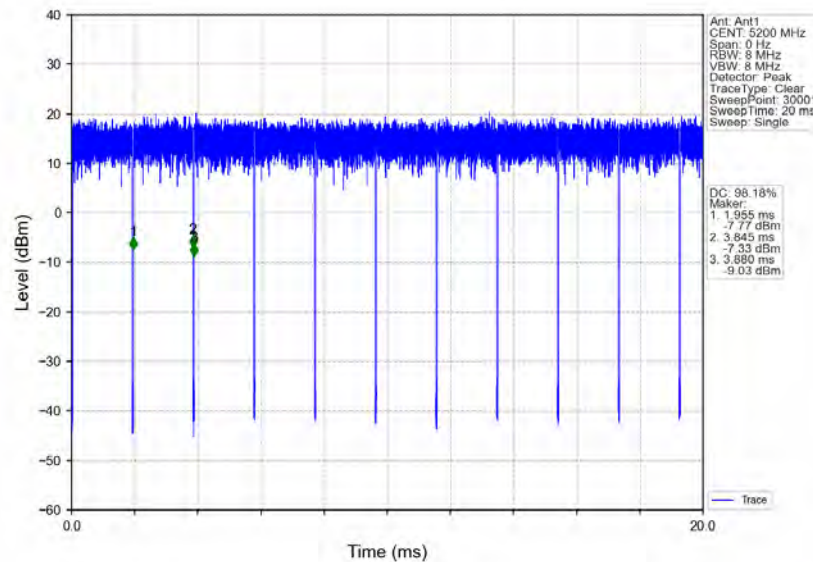
Report No.: KSCR240100008105

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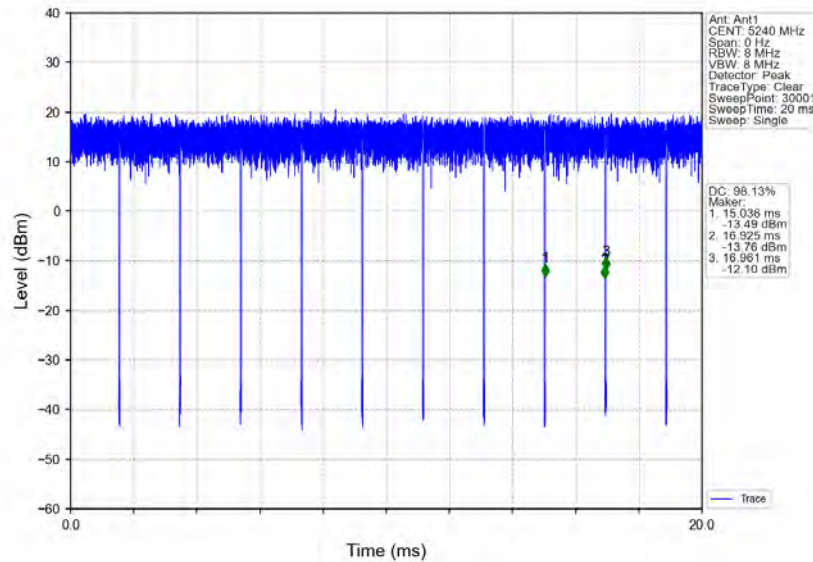
802.11n(HT20) LCH 5180MHz Ant1 NTN



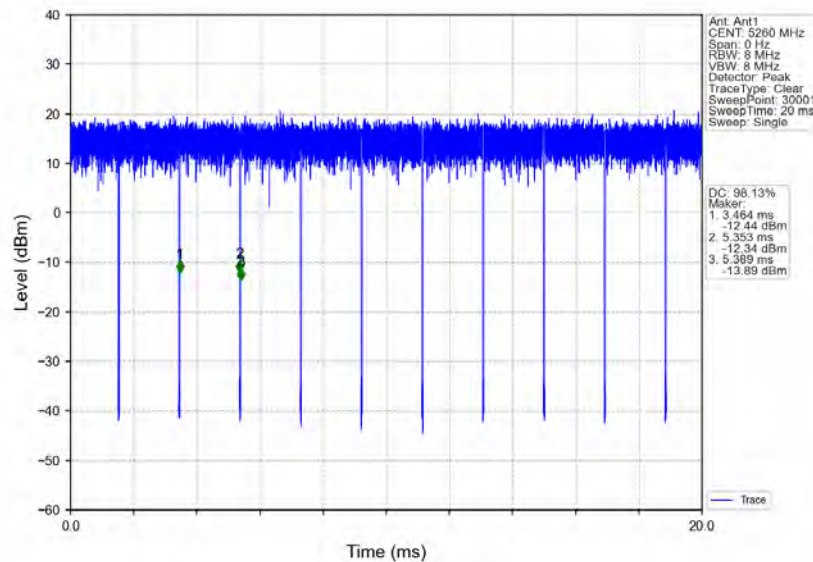
802.11n(HT20) MCH 5200MHz Ant1 NTN



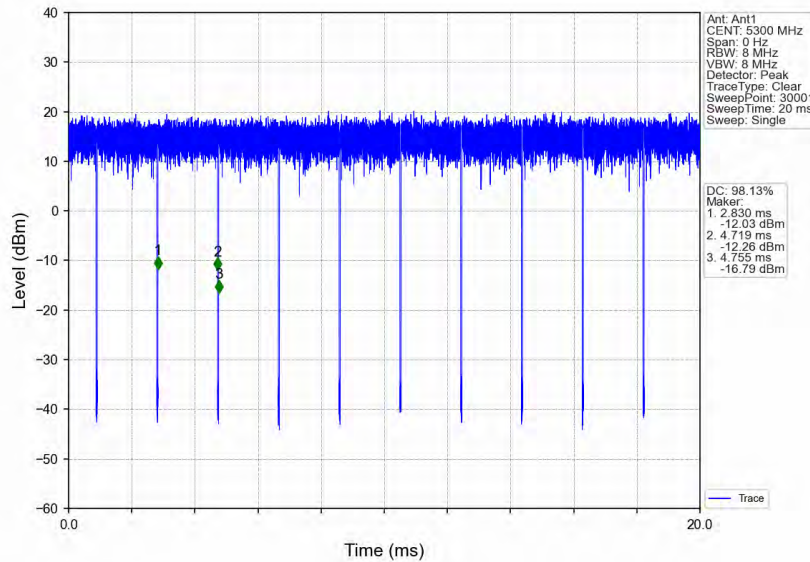
802.11n(HT20) HCH 5240MHz Ant1 NTN



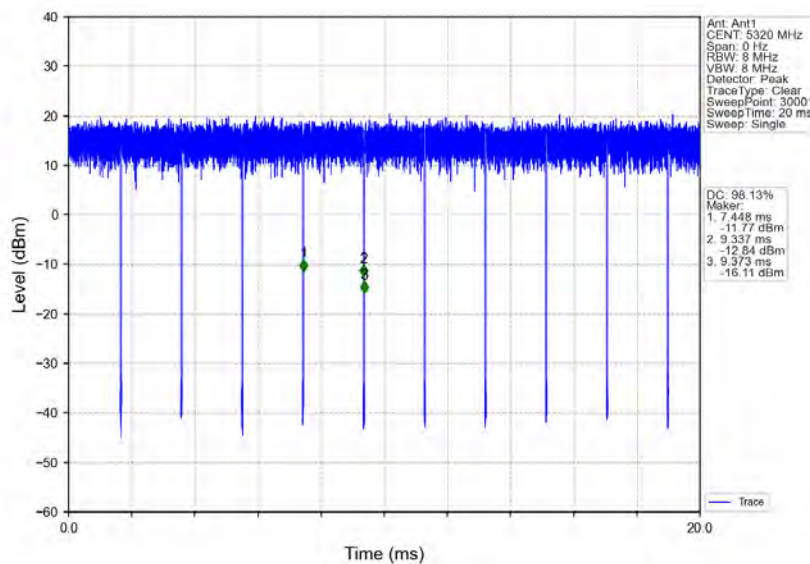
802.11n(HT20) LCH 5260MHz Ant1 NTN



802.11n(HT20) MCH 5300MHz Ant1 NTN



802.11n(HT20) HCH 5320MHz Ant1 NTN



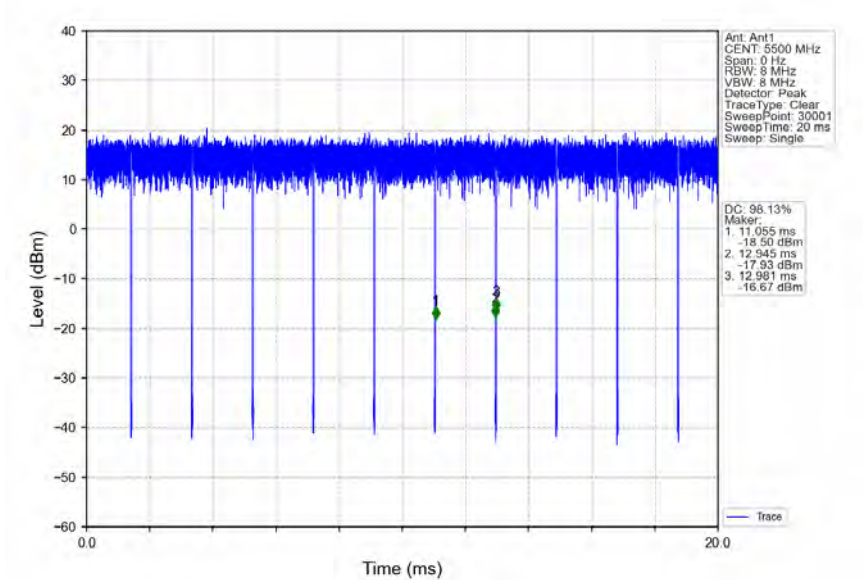
Compliance Certification Services (Kunshan) Inc.

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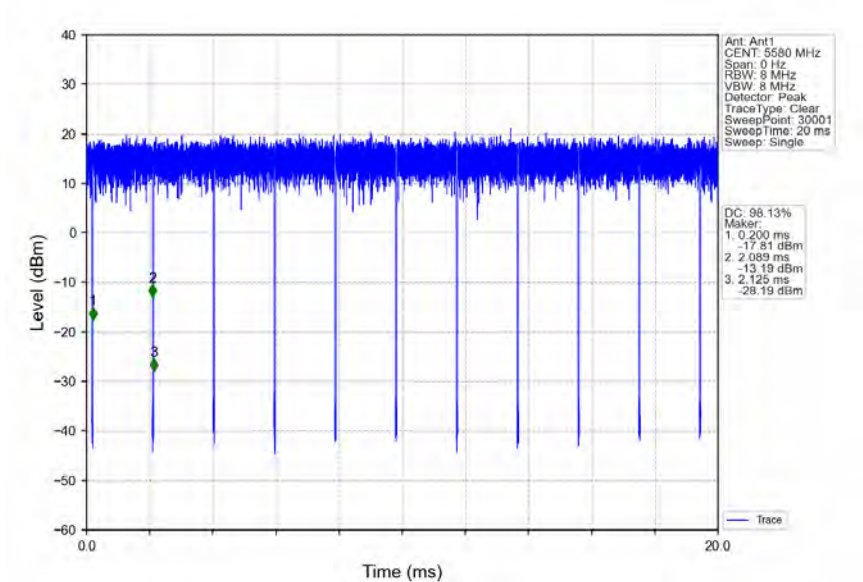
Report No.: KSCR240100008105

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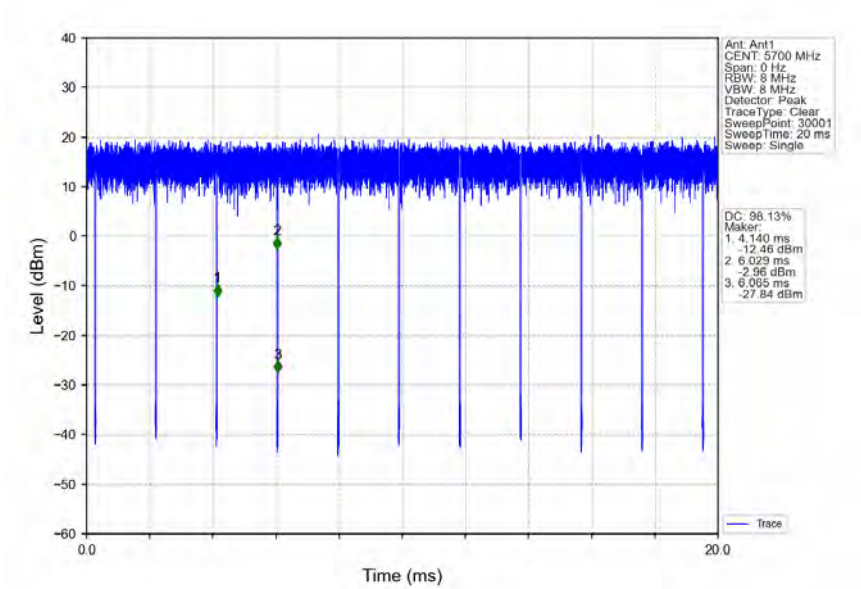
802.11n(HT20) LCH_5500MHz_Ant1_NTNV



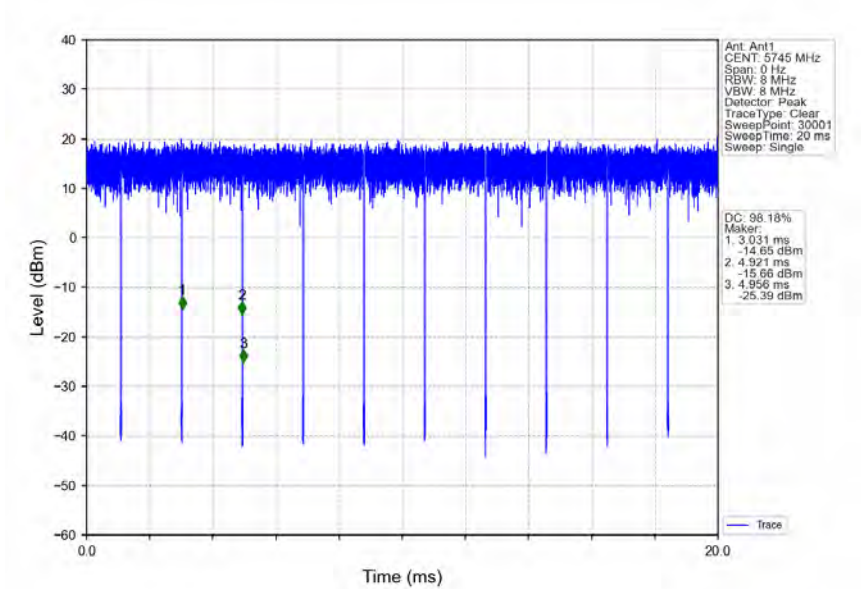
802.11n(HT20) MCH_5580MHz_Ant1_NTNV



802.11n(HT20) HCH 5700MHz Ant1 NTN



802.11n(HT20) LCH 5745MHz Ant1 NTN



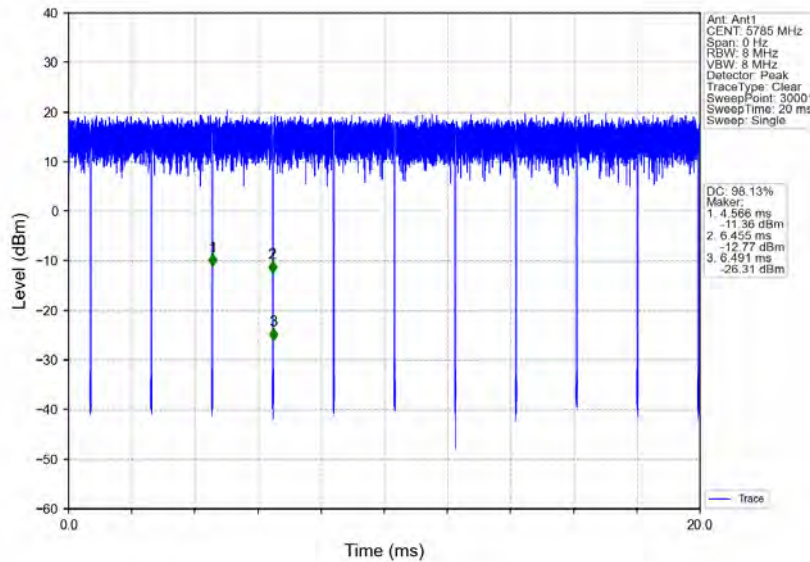
Compliance Certification Services (Kunshan) Inc.

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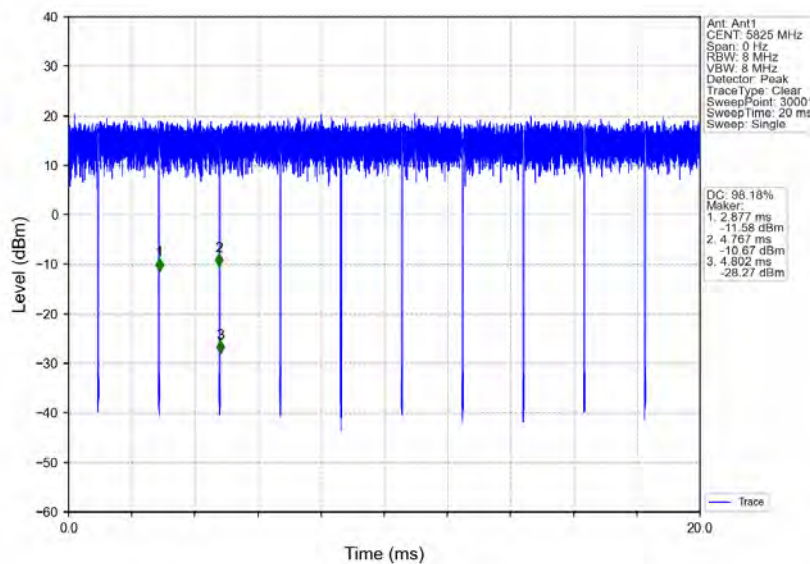
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802.11n(HT20) MCH 5785MHz Ant1 NTNV



802.11n(HT20) HCH 5825MHz Ant1 NTNV



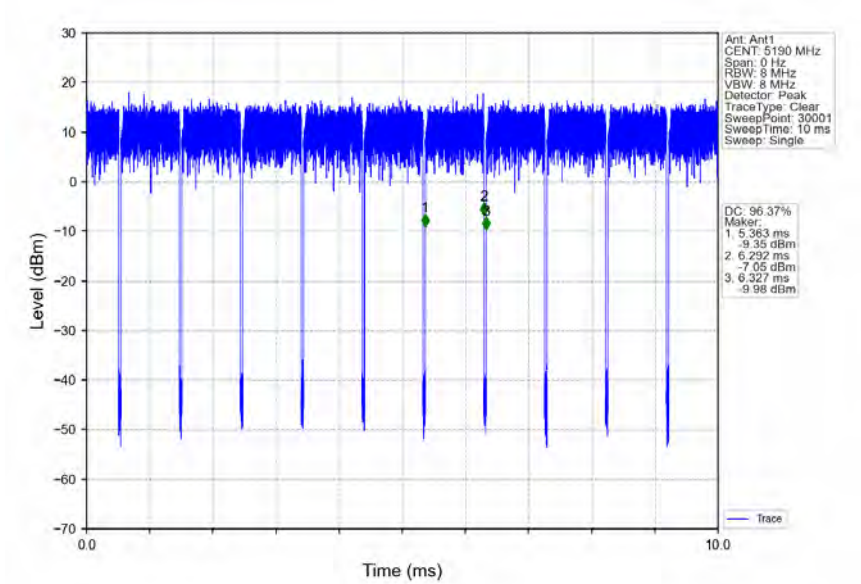
Compliance Certification Services (Kunshan) Inc.

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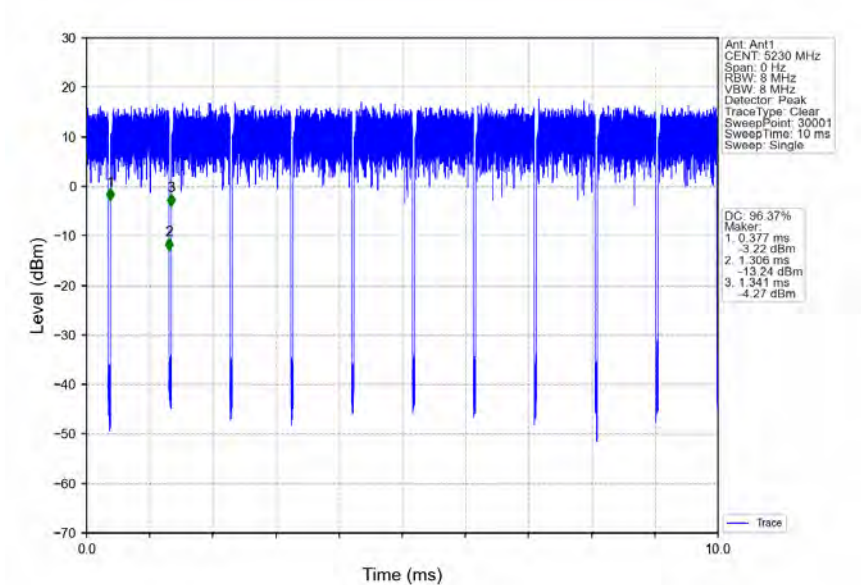
Report No.: KSCR240100008105

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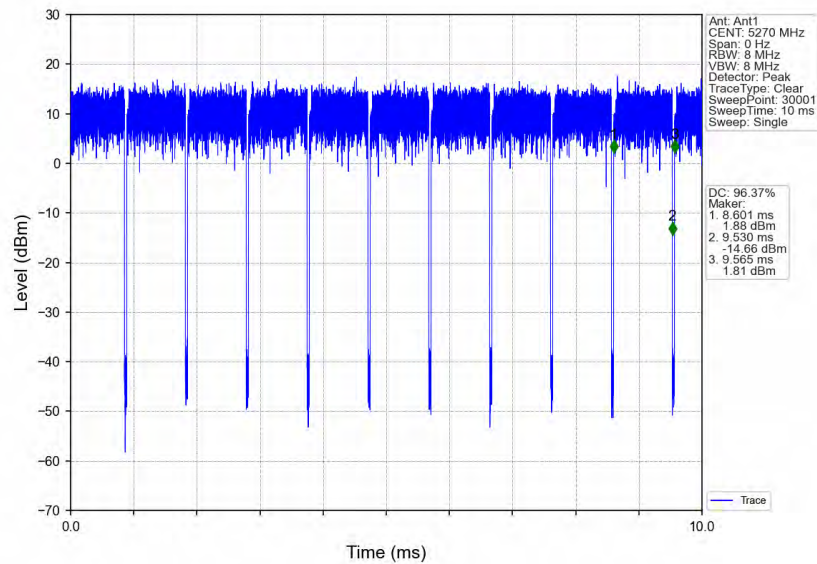
802.11n(HT40) LCH 5190MHz Ant1 NTN



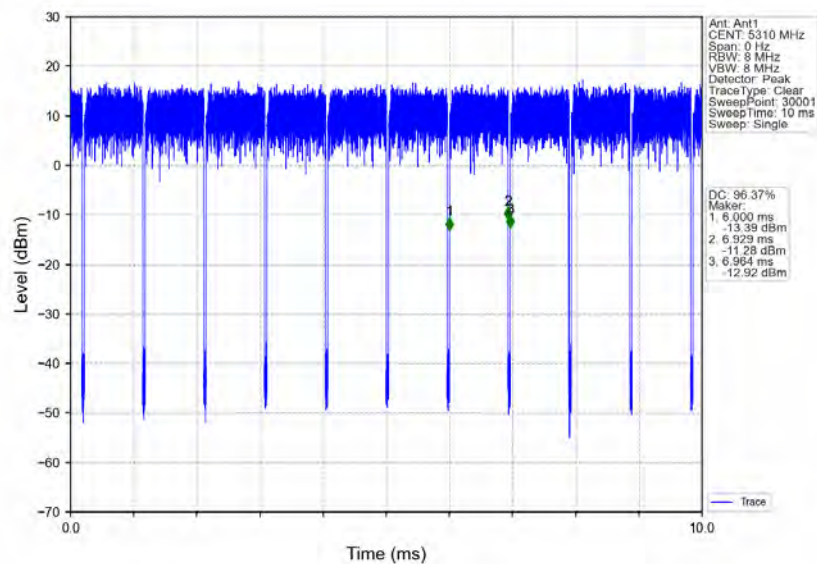
802.11n(HT40) HCH 5230MHz Ant1 NTN



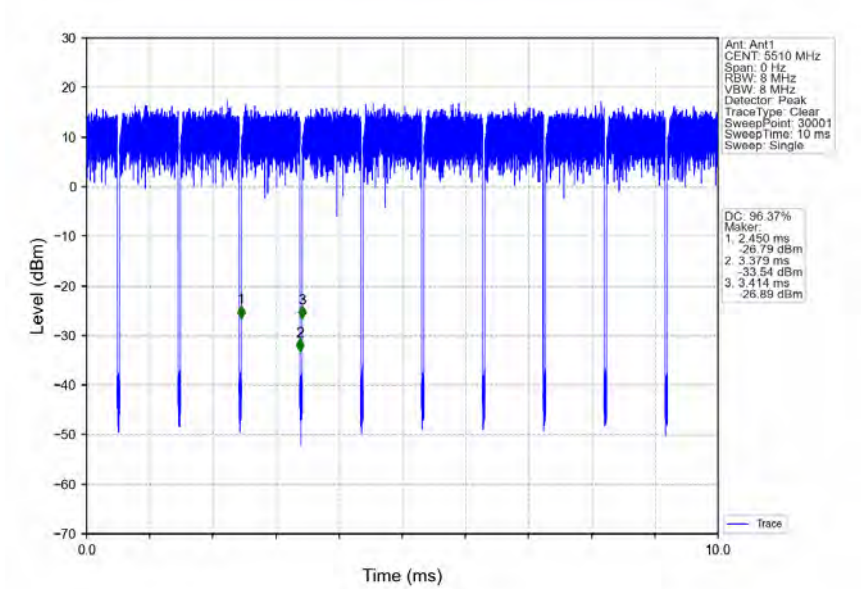
802.11n(HT40) LCH 5270MHz Ant1 NTN



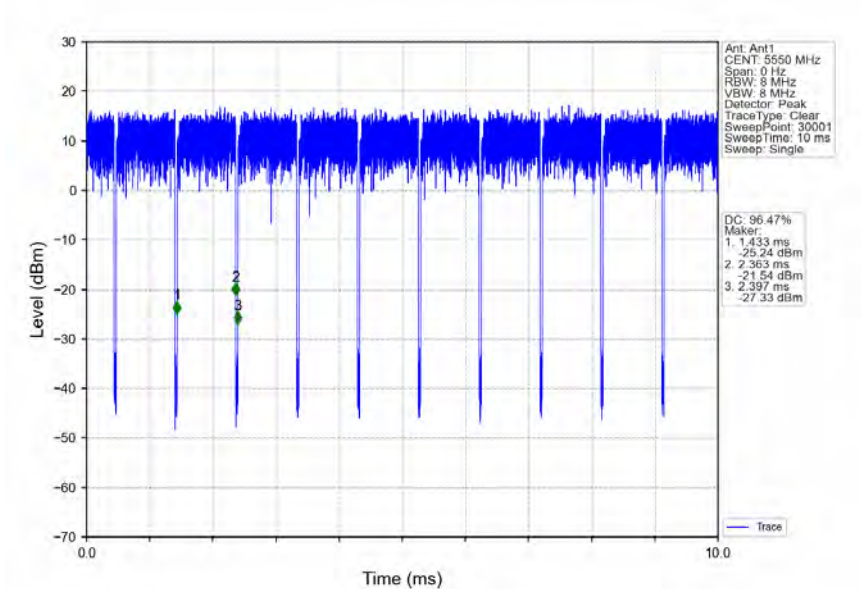
802.11n(HT40) HCH 5310MHz Ant1 NTN



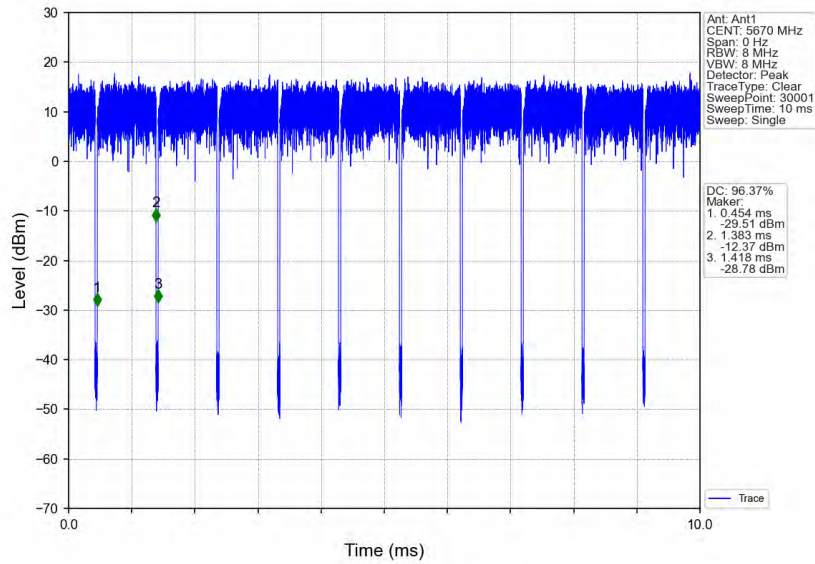
802.11n(HT40) LCH 5510MHz Ant1 NTN



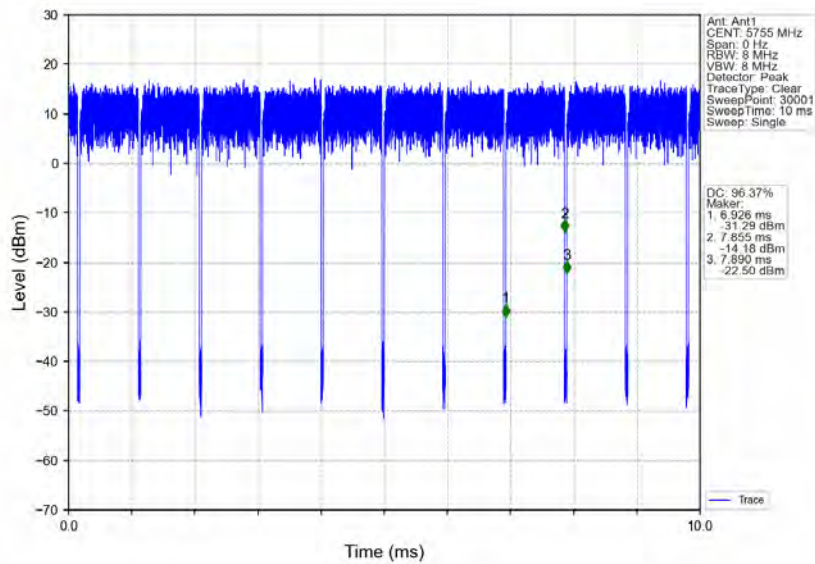
802.11n(HT40) MCH 5550MHz Ant1 NTN



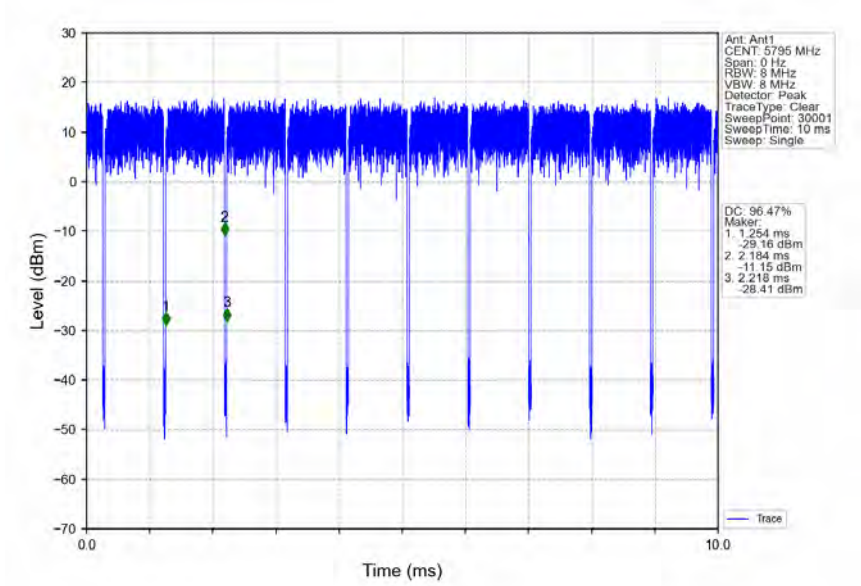
802.11n(HT40) HCH 5670MHz Ant1 NTN



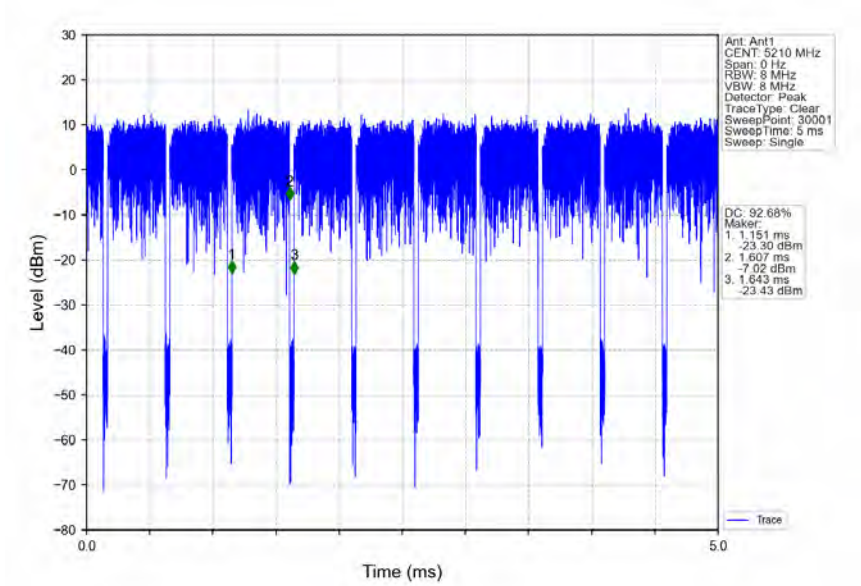
802.11n(HT40) LCH 5755MHz Ant1 NTN



802.11n(HT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80) MCH 5210MHz Ant1 NTN



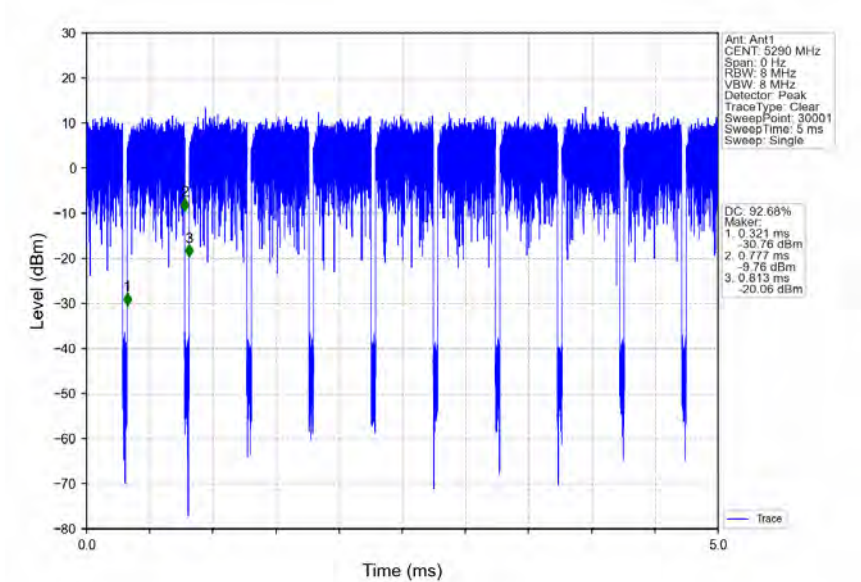
Compliance Certification Services (Kunshan) Inc.

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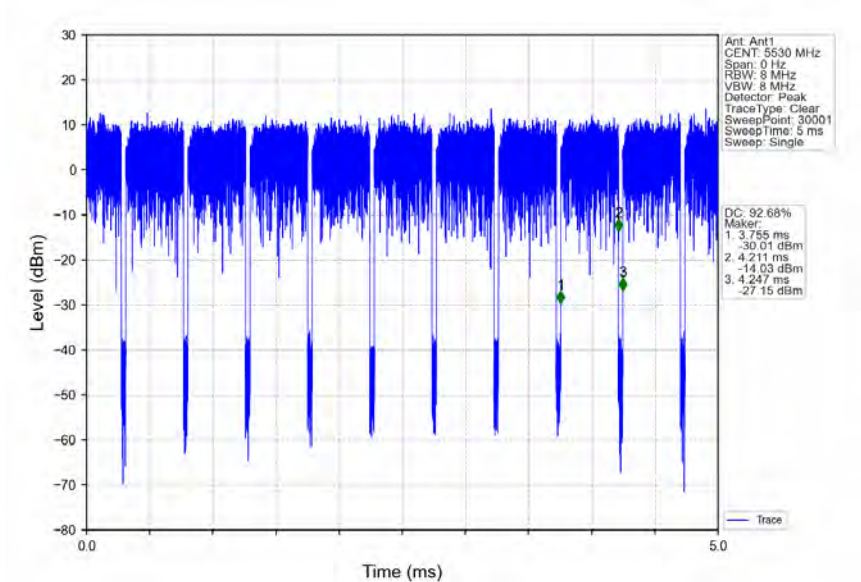
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802.11ac(VHT80) MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80) LCH_5530MHz_Ant1_NTNV



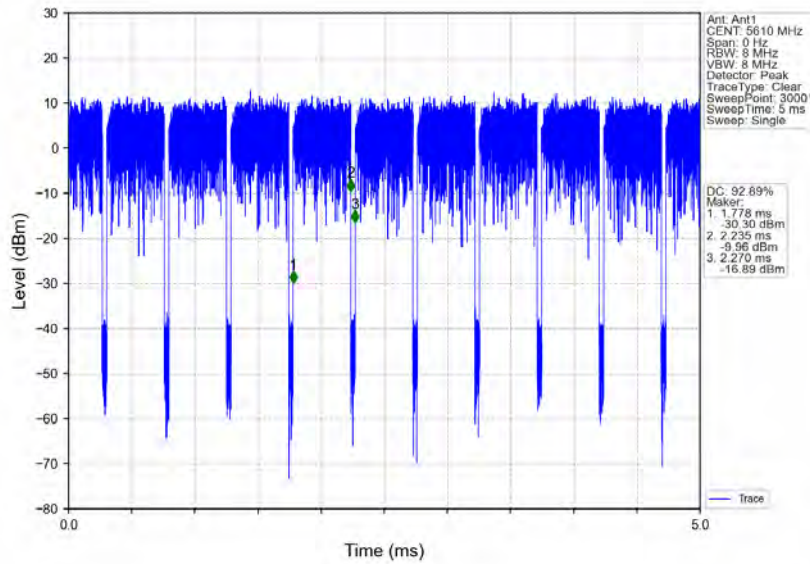
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

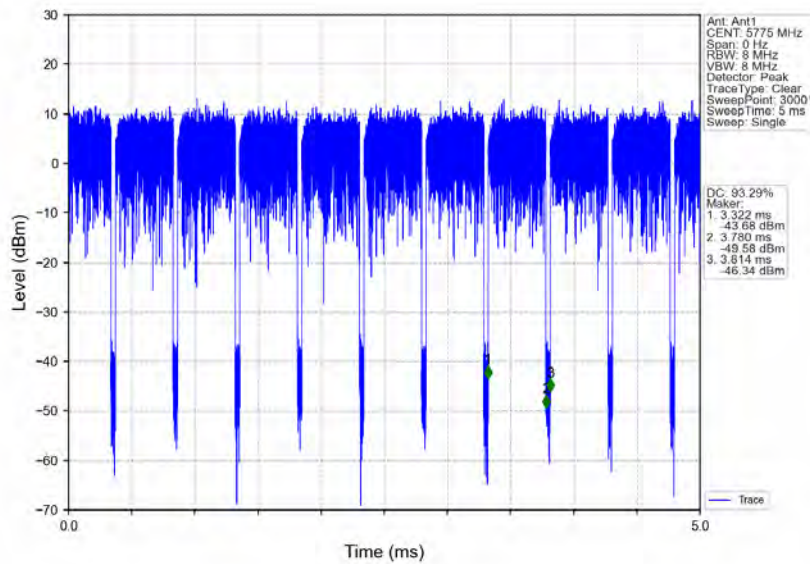
Report No.: KSCR240100008105

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802.11ac(VHT80) HCH 5610MHz Ant1 NTN



802.11ac(VHT80) MCH 5775MHz Ant1 NTN



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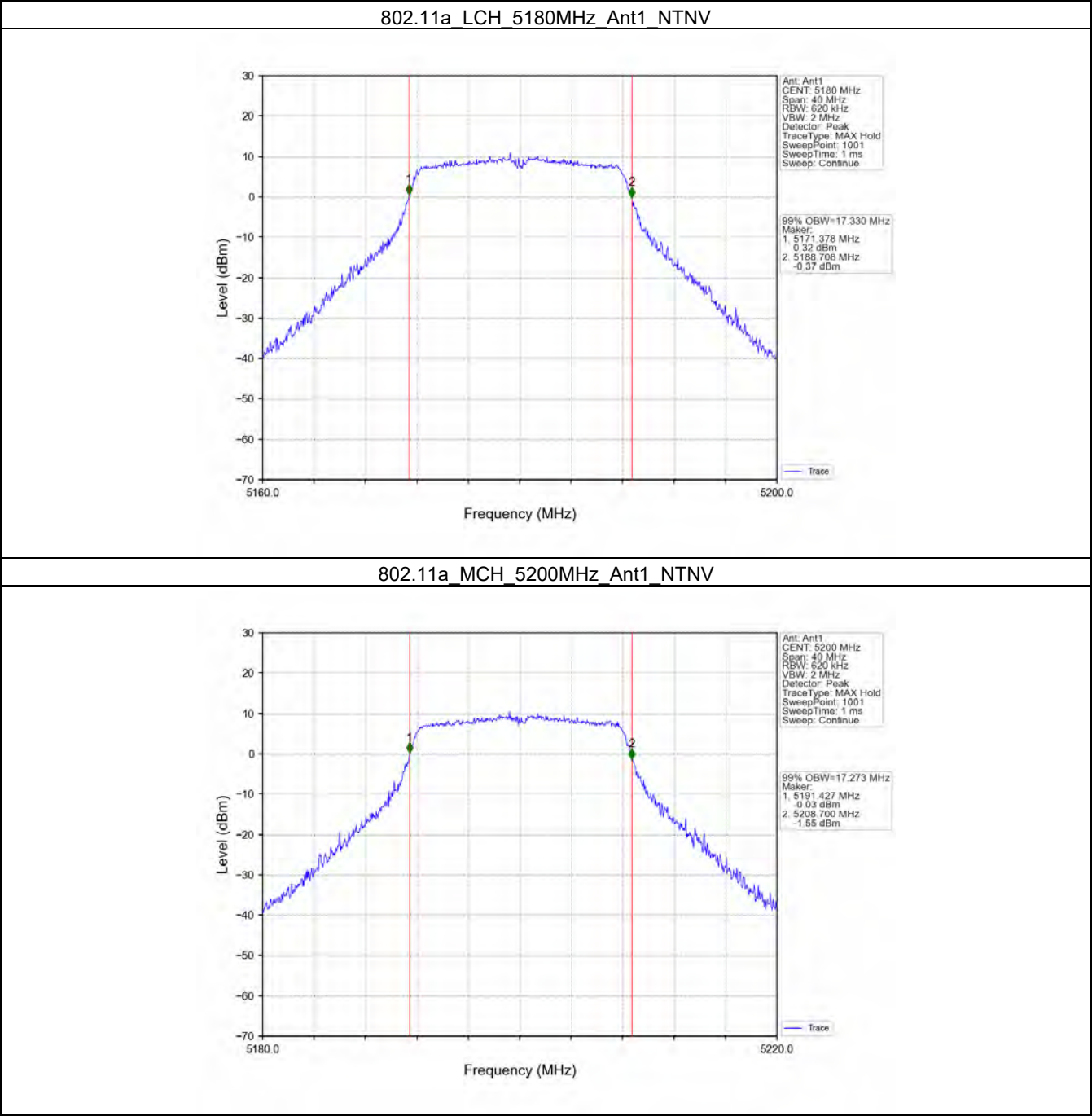
2. Bandwidth

2.1 OBW

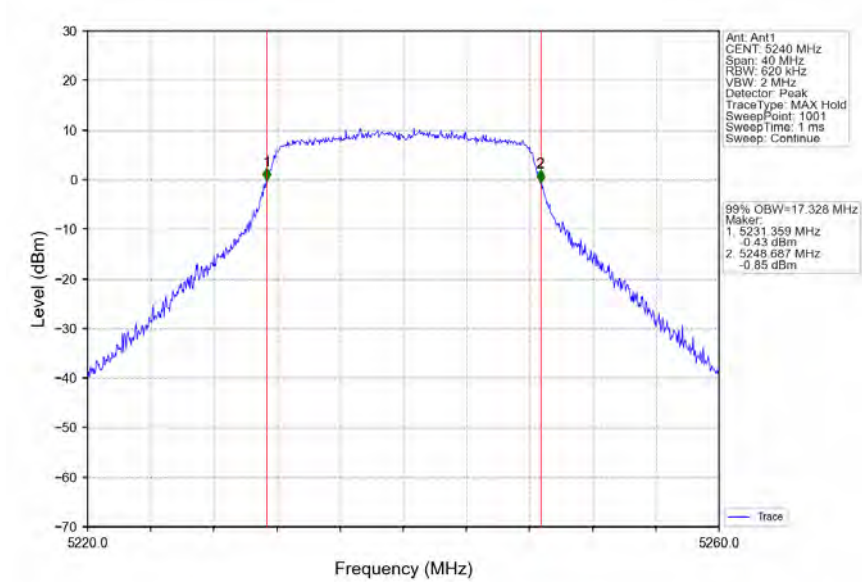
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	17.330	/	Pass
		5200	1	17.273	/	Pass
		5240	1	17.328	/	Pass
		5260	1	17.390	/	Pass
		5300	1	17.383	/	Pass
		5320	1	17.354	/	Pass
		5500	1	17.383	/	Pass
		5580	1	17.347	/	Pass
		5700	1	17.389	/	Pass
		5745	1	17.384	/	Pass
		5785	1	17.383	/	Pass
		5825	1	17.335	/	Pass
802.11n (HT20)	SISO	5180	1	18.484	/	Pass
		5200	1	18.462	/	Pass
		5240	1	18.495	/	Pass
		5260	1	18.451	/	Pass
		5300	1	18.481	/	Pass
		5320	1	18.430	/	Pass
		5500	1	18.481	/	Pass
		5580	1	18.460	/	Pass
		5700	1	18.447	/	Pass
		5745	1	18.389	/	Pass
		5785	1	18.472	/	Pass
		5825	1	18.422	/	Pass
802.11n (HT40)	SISO	5190	1	36.622	/	Pass
		5230	1	36.600	/	Pass
		5270	1	36.661	/	Pass
		5310	1	36.574	/	Pass
		5510	1	36.638	/	Pass
		5550	1	36.639	/	Pass
		5670	1	36.585	/	Pass
		5755	1	36.522	/	Pass
		5795	1	36.536	/	Pass
802.11ac (VHT80)	SISO	5210	1	76.229	/	Pass
		5290	1	76.177	/	Pass
		5530	1	76.309	/	Pass
		5610	1	76.219	/	Pass
		5775	1	76.050	/	Pass

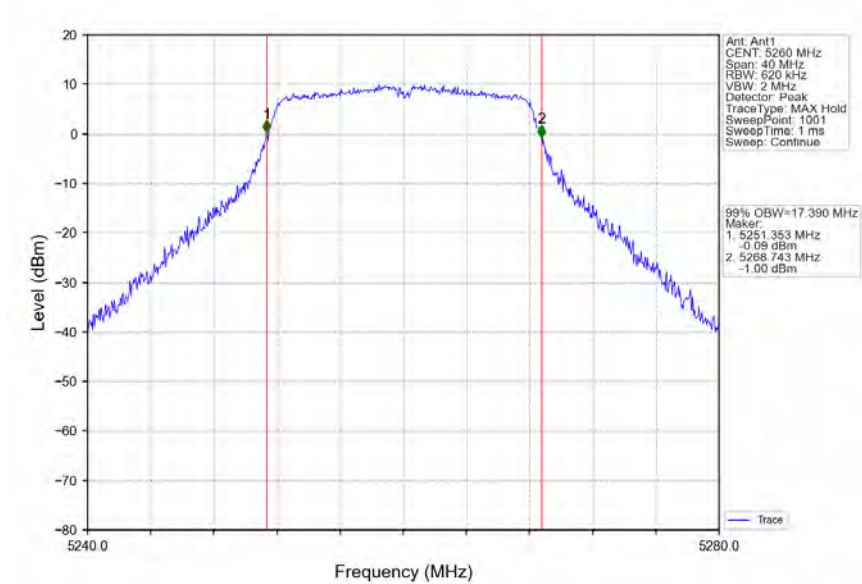
2.1.2 Test Graph



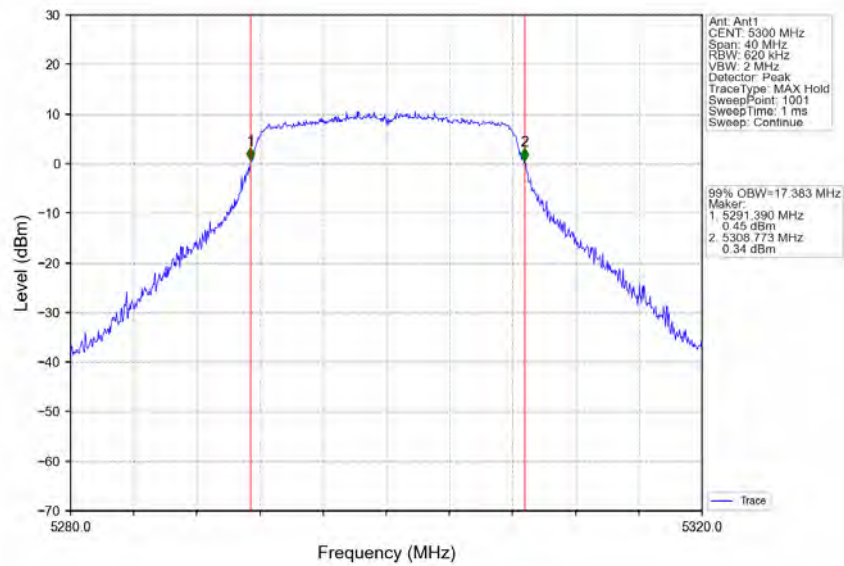
802.11a HCH 5240MHz Ant1 NTN



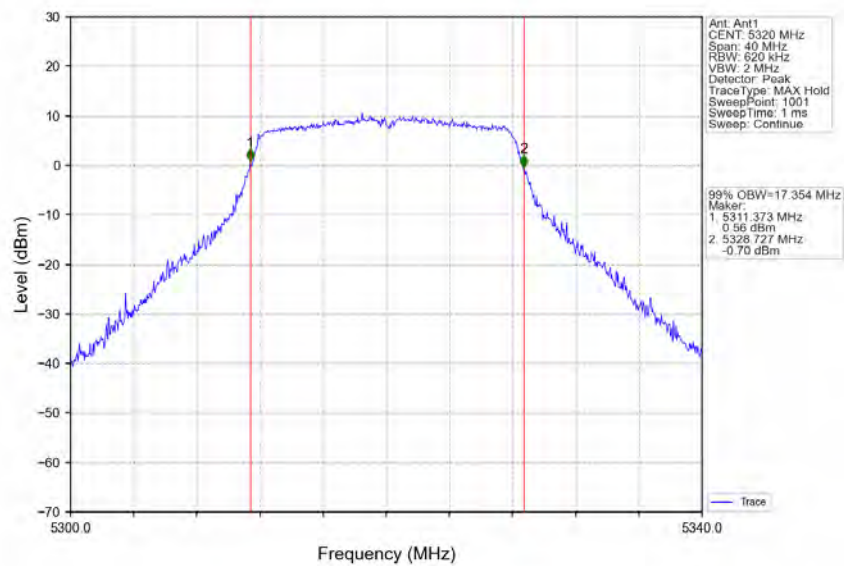
802.11a LCH 5260MHz Ant1 NTN



802.11a MCH 5300MHz Ant1 NTN



802.11a HCH 5320MHz Ant1 NTN



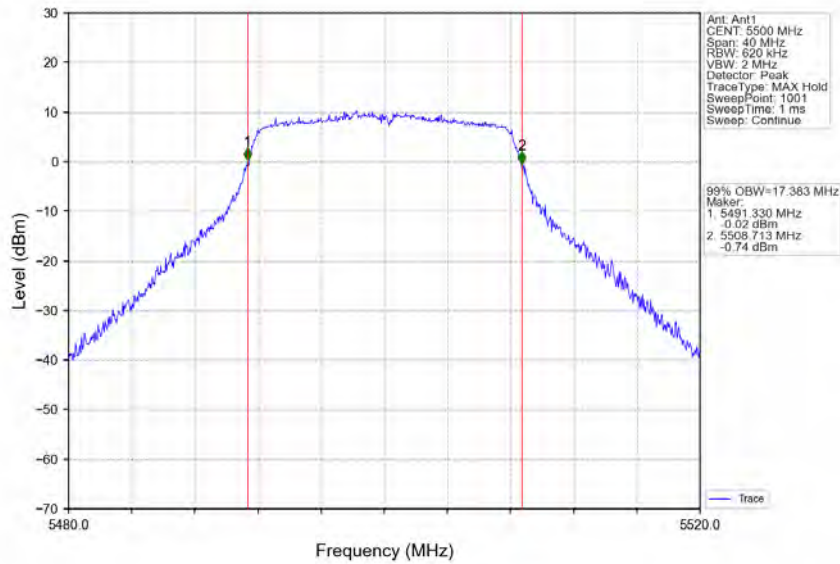
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

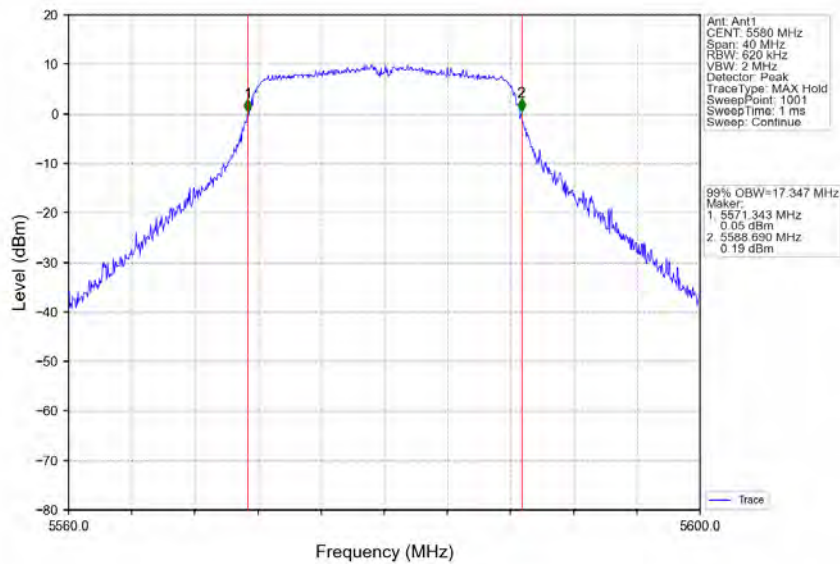
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802.11a LCH 5500MHz Ant1 NTN



802.11a MCH 5580MHz Ant1 NTN



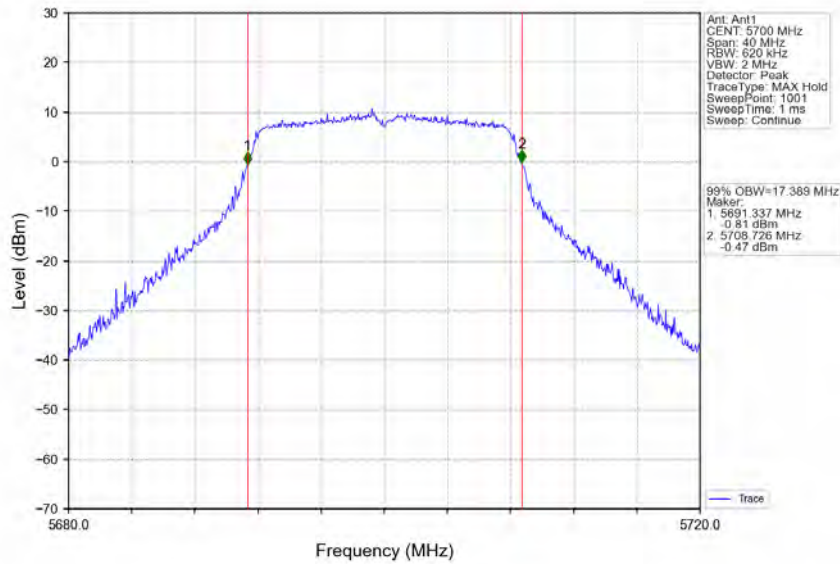
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

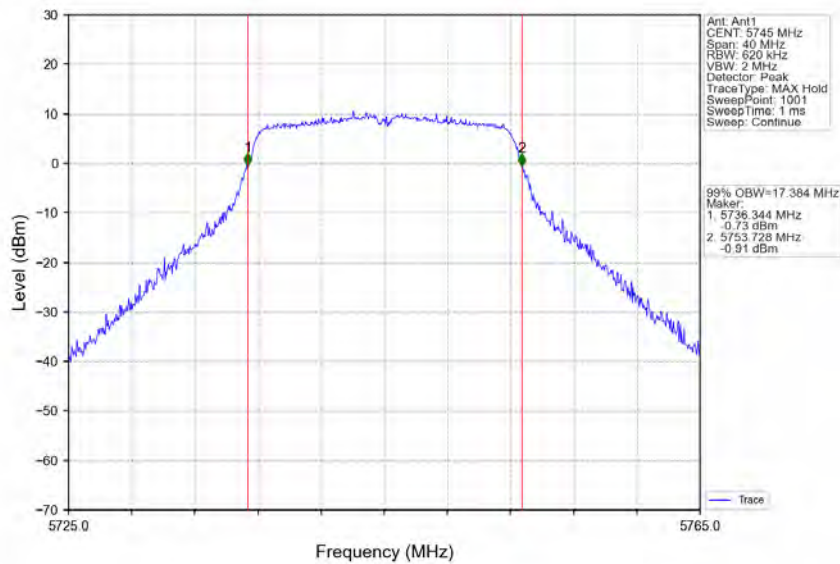
Report No.: KSCR240100008105

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802.11a HCH 5700MHz Ant1 NTN



802.11a LCH 5745MHz Ant1 NTN



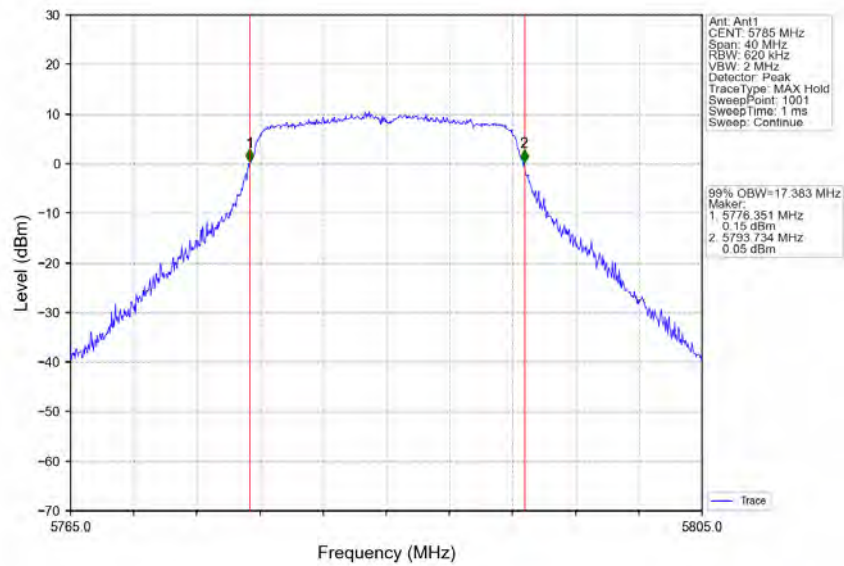
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

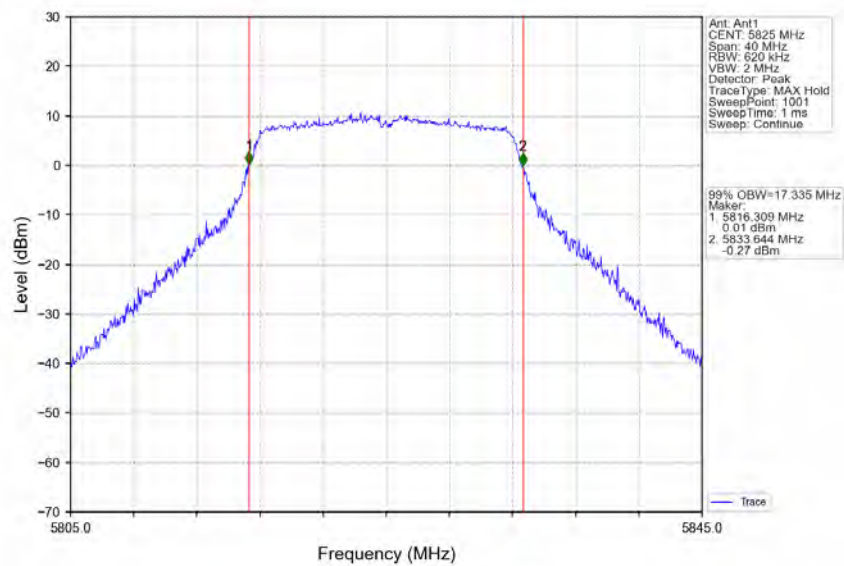
Report No.: KSCR240100008105

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802.11a MCH 5785MHz Ant1 NTN



802.11a HCH 5825MHz Ant1 NTN



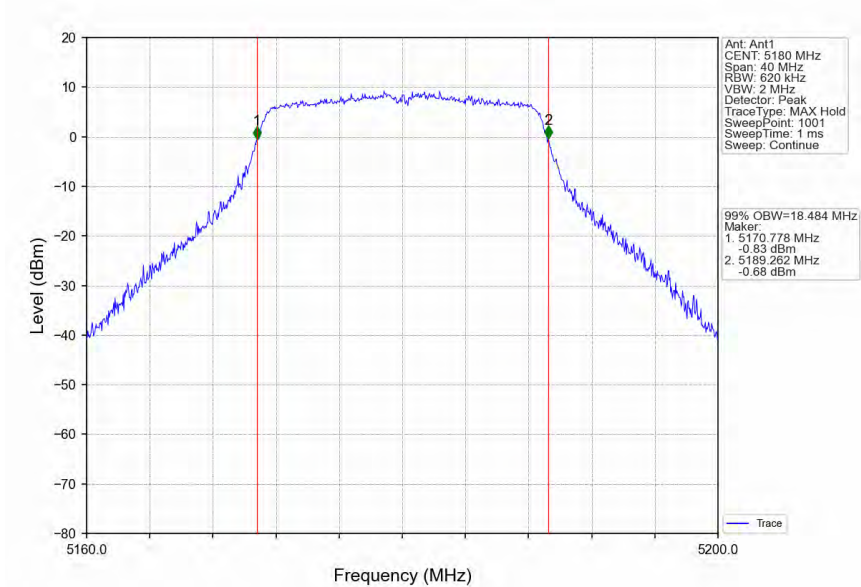
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

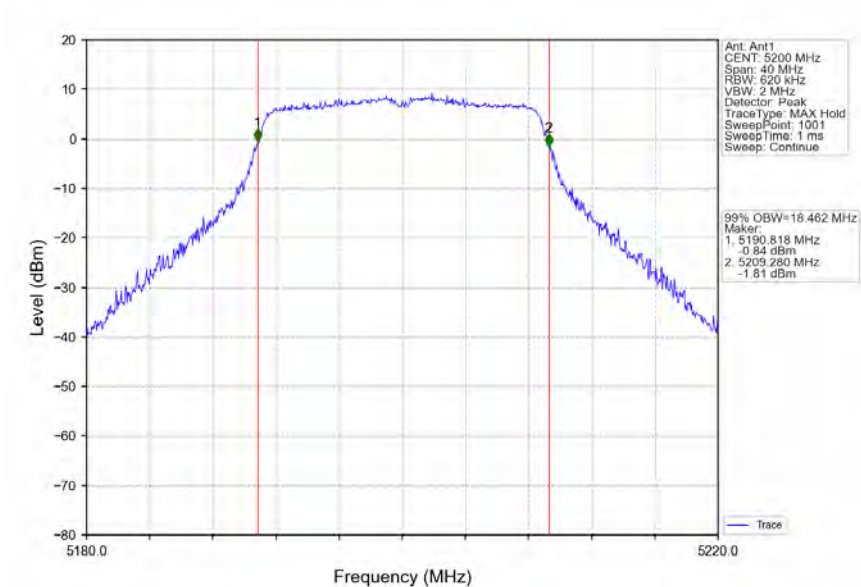
Report No.: KSCR240100008105

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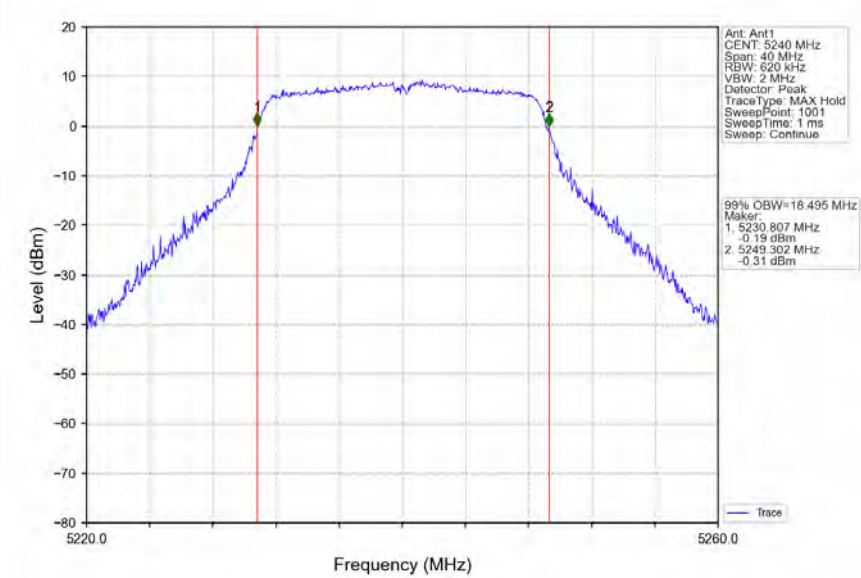
802.11n(HT20) LCH 5180MHz Ant1 NTN



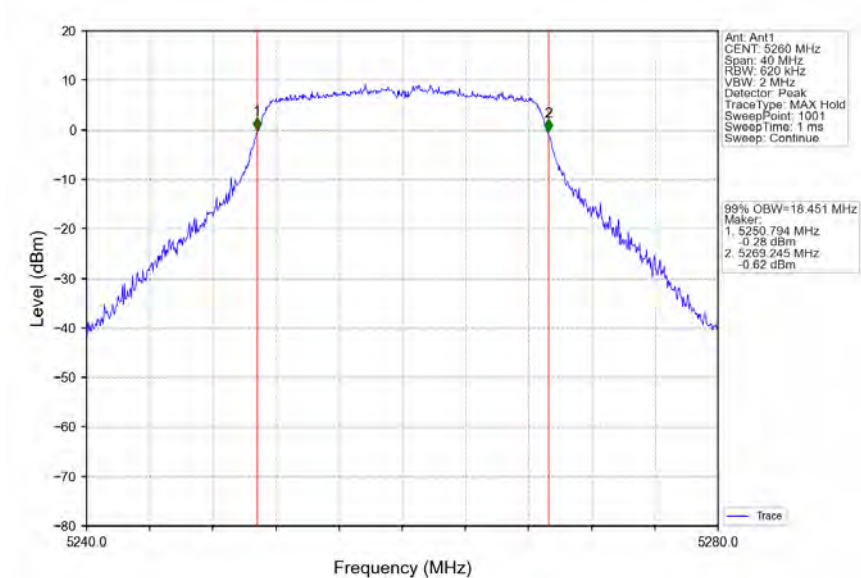
802.11n(HT20) MCH 5200MHz Ant1 NTN



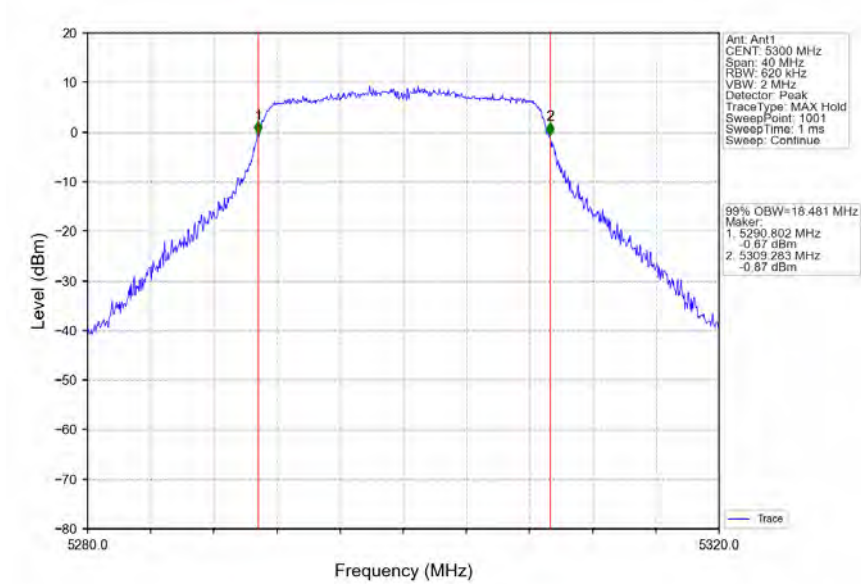
802.11n(HT20) HCH 5240MHz Ant1 NTN



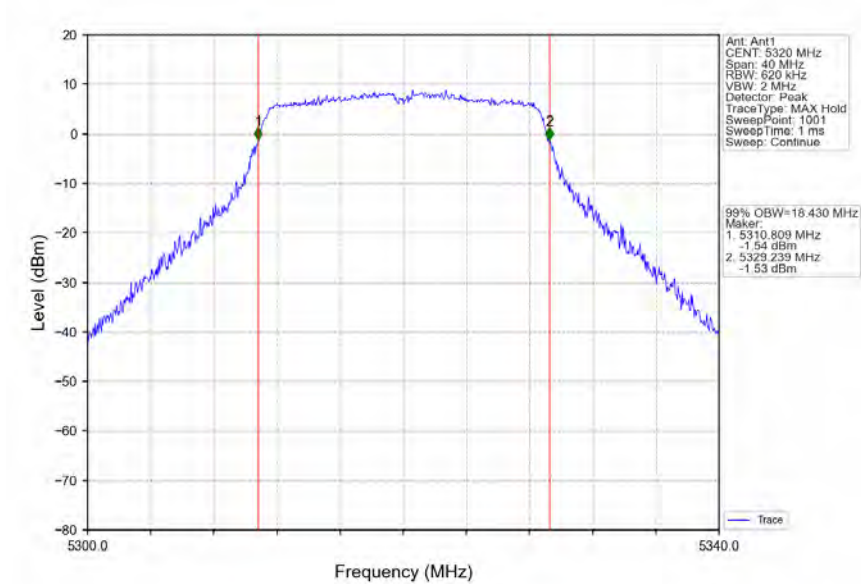
802.11n(HT20) LCH 5260MHz Ant1 NTN



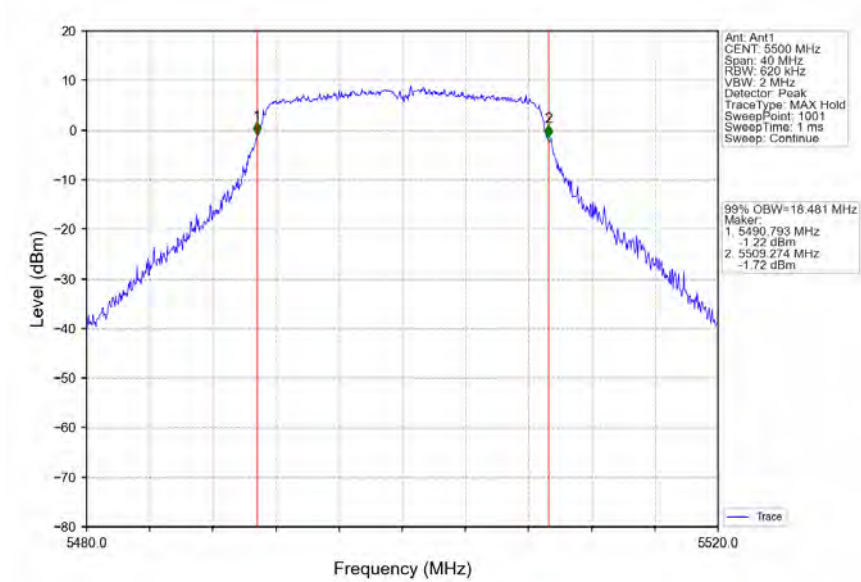
802.11n(HT20) MCH 5300MHz Ant1 NTN



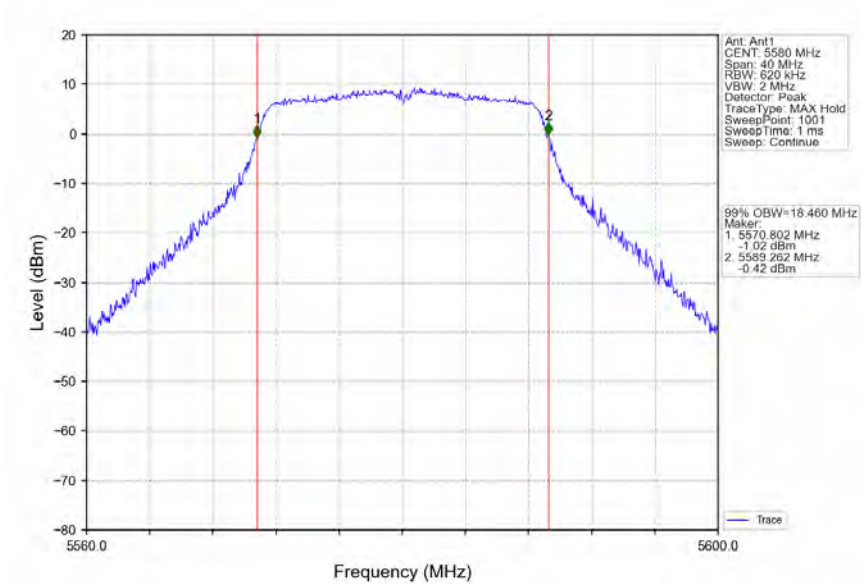
802.11n(HT20) HCH 5320MHz Ant1 NTN



802.11n(HT20) LCH 5500MHz Ant1 NTN



802.11n(HT20) MCH 5580MHz Ant1 NTN



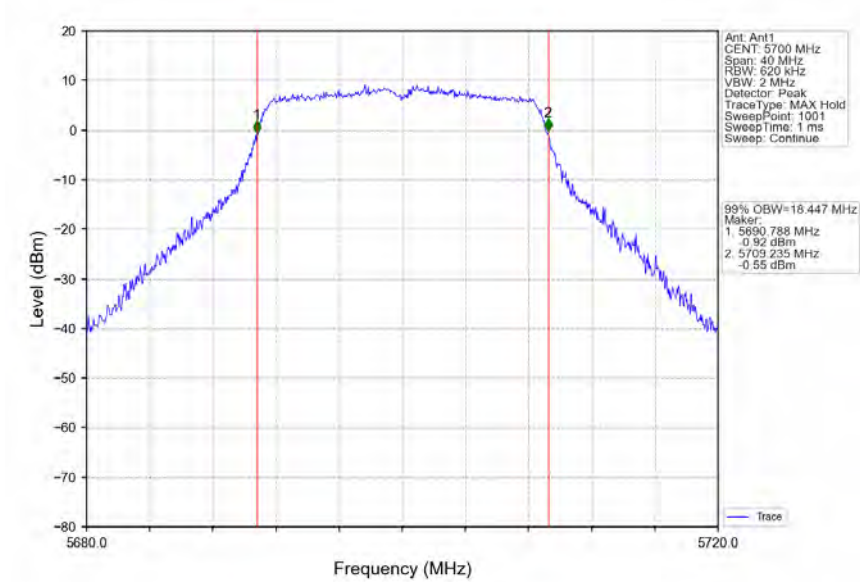
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

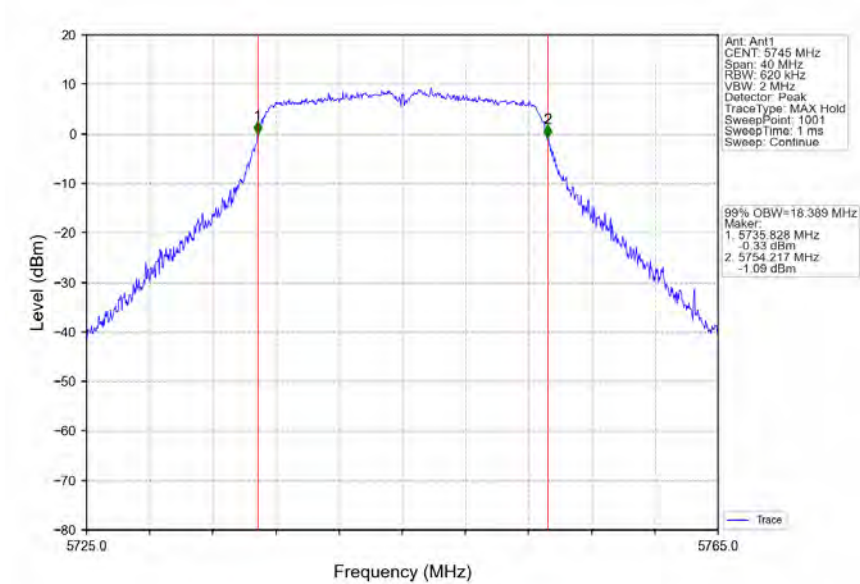
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802.11n(HT20) HCH 5700MHz Ant1 NTN



802.11n(HT20) LCH 5745MHz Ant1 NTN



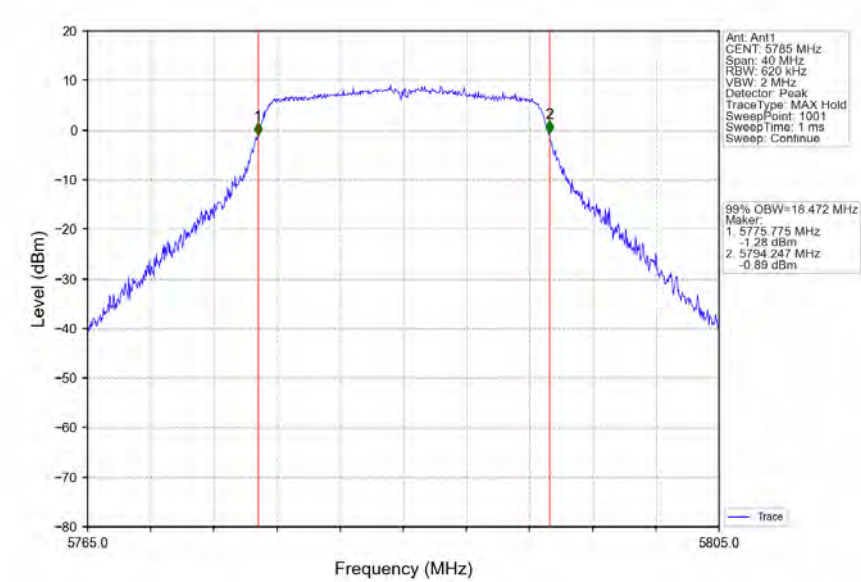
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

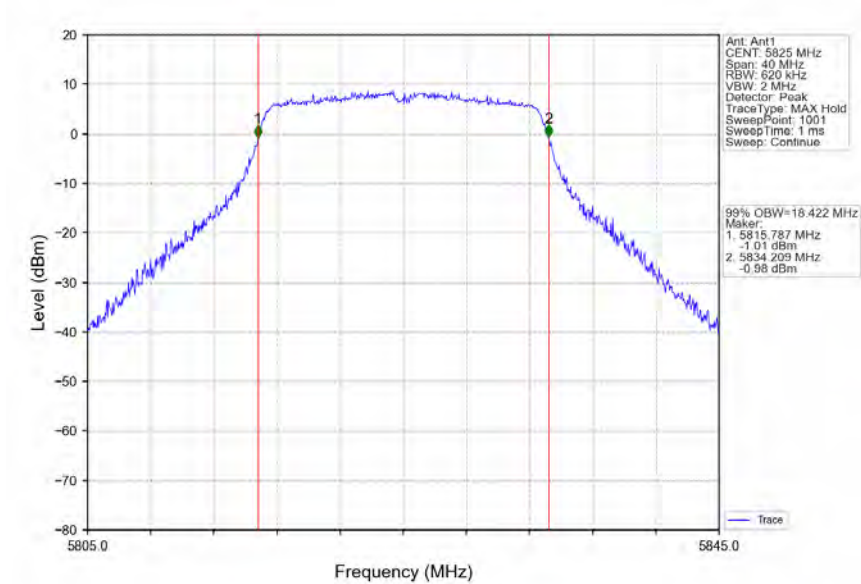
Report No.: KSCR240100008105

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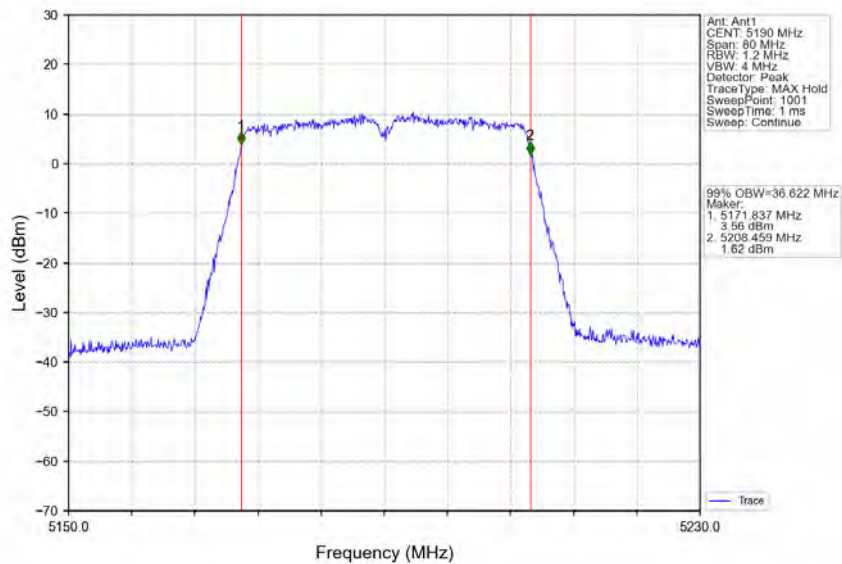
802.11n(HT20) MCH 5785MHz Ant1 NTN



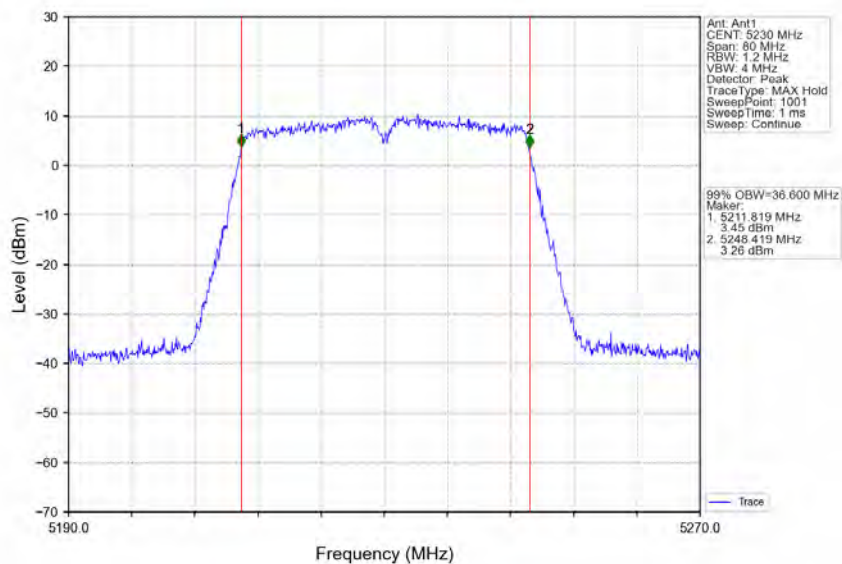
802.11n(HT20) HCH 5825MHz Ant1 NTN



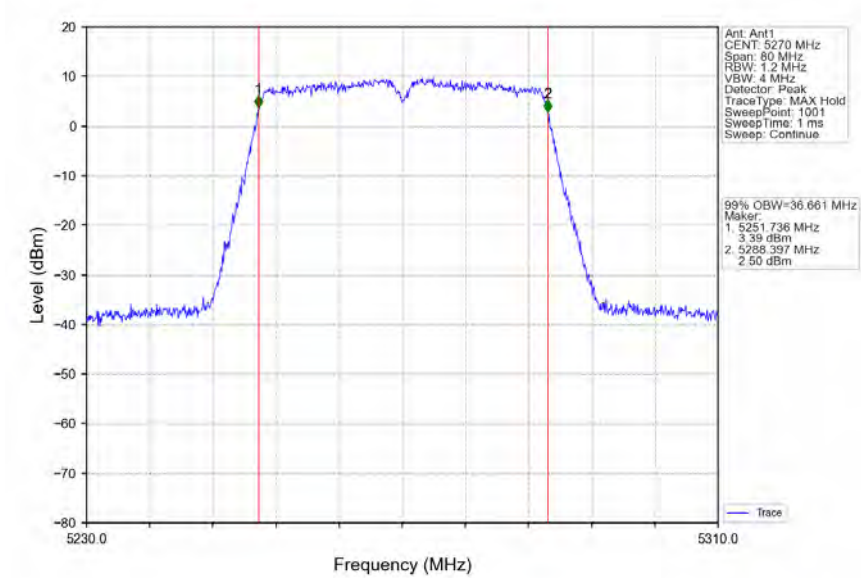
802.11n(HT40) LCH 5190MHz Ant1 NTN



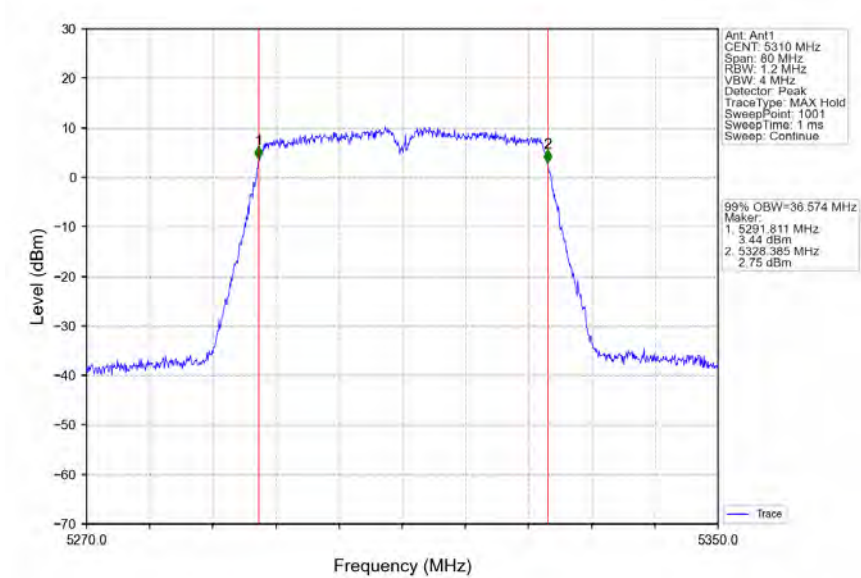
802.11n(HT40) HCH 5230MHz Ant1 NTN



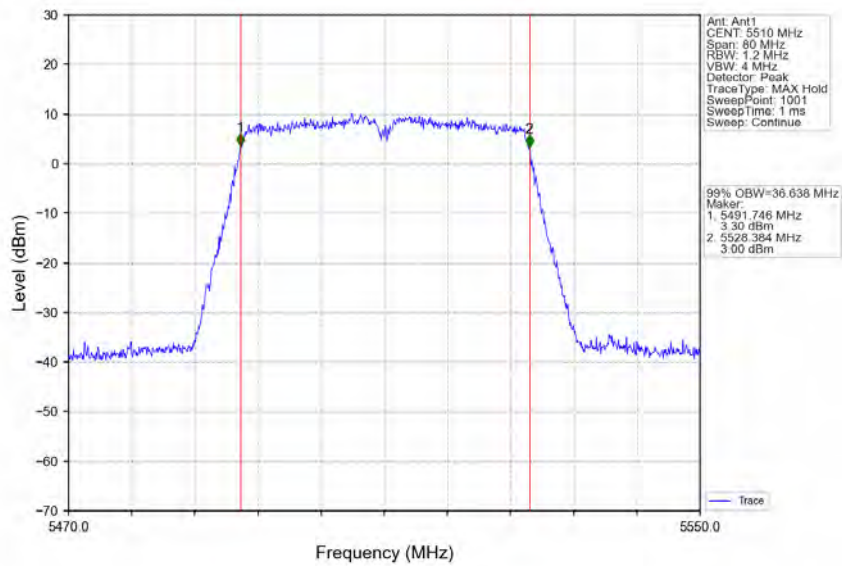
802.11n(HT40) LCH 5270MHz Ant1 NTN



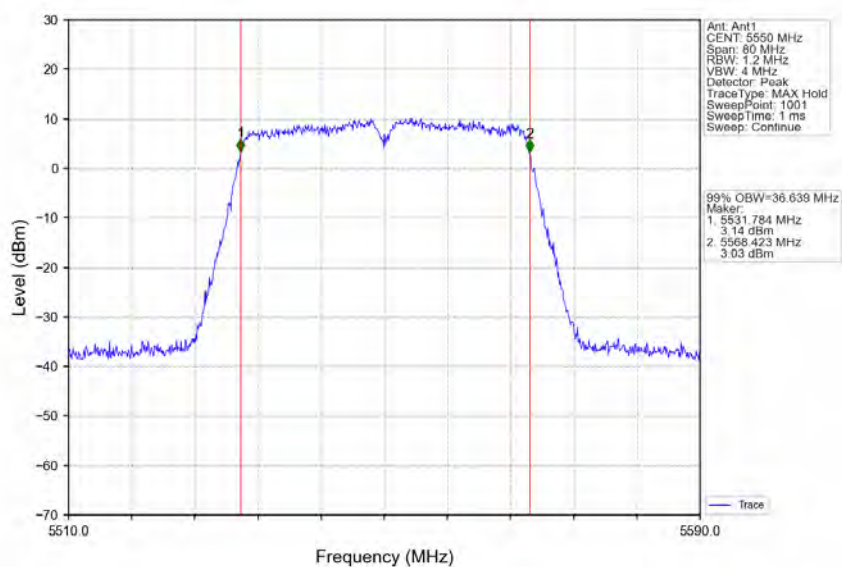
802.11n(HT40) HCH 5310MHz Ant1 NTN



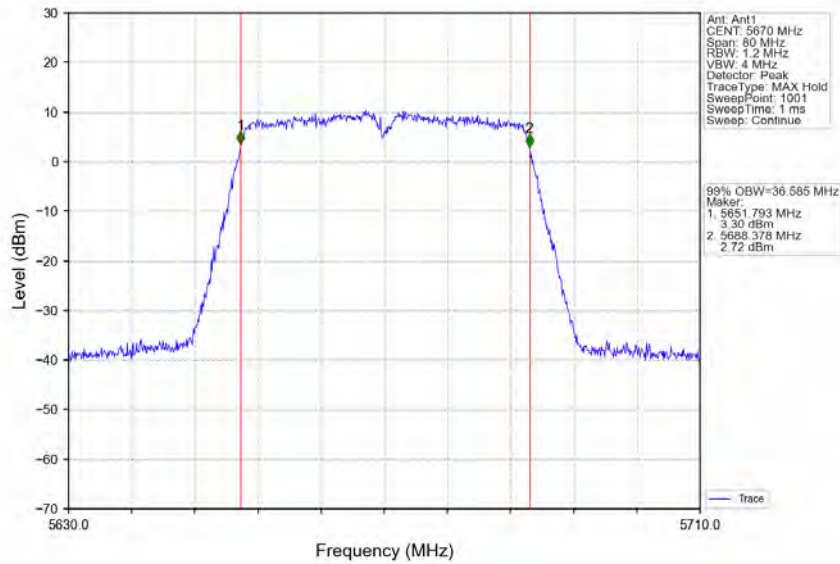
802.11n(HT40) LCH 5510MHz Ant1 NTN



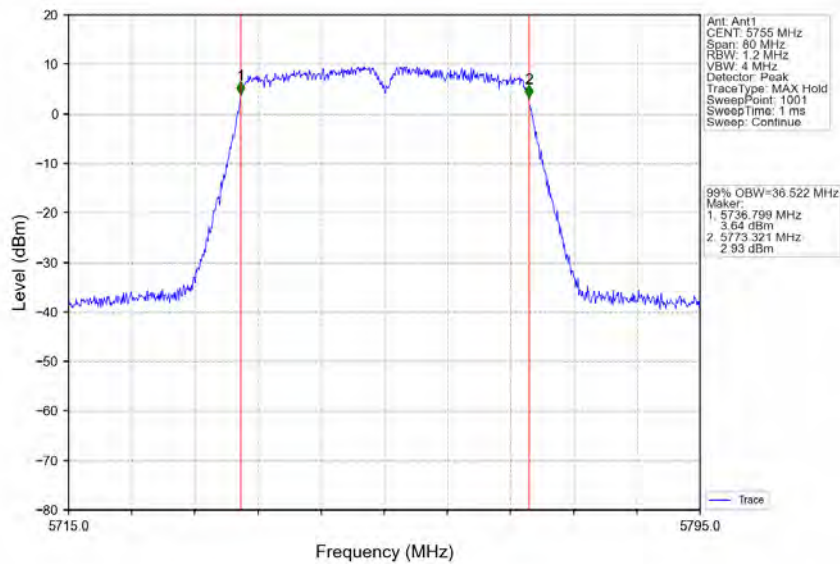
802.11n(HT40) MCH 5550MHz Ant1 NTN



802.11n(HT40) HCH 5670MHz Ant1 NTN



802.11n(HT40) LCH 5755MHz Ant1 NTN



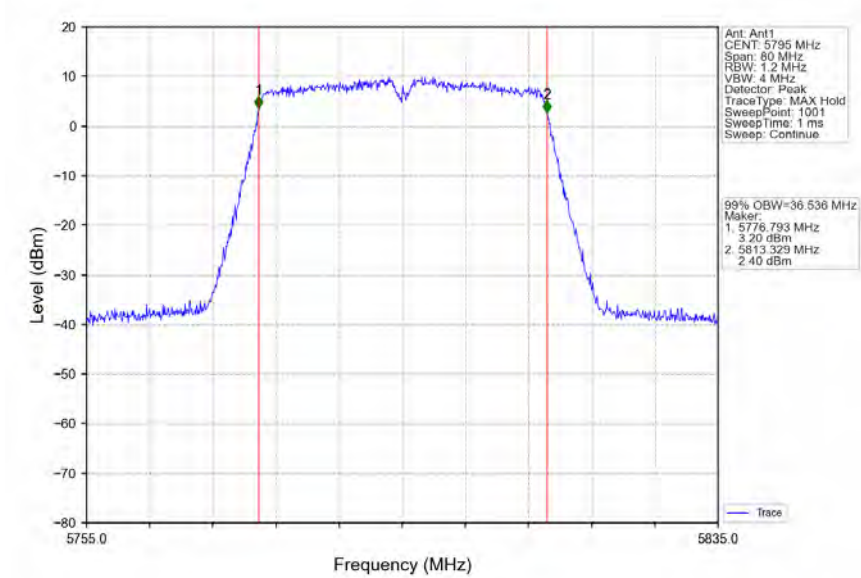
Compliance Certification Services (Kunshan) Inc.

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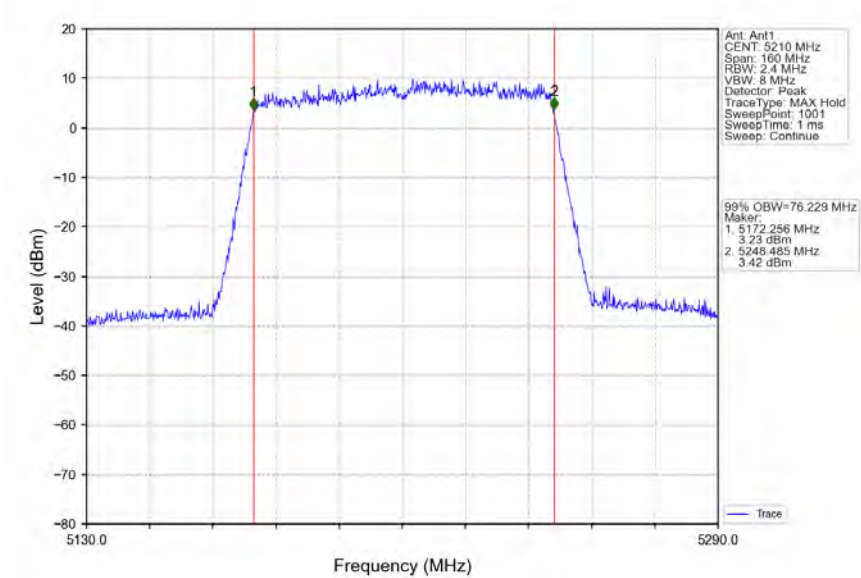
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802.11n(HT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80) MCH 5210MHz Ant1 NTN



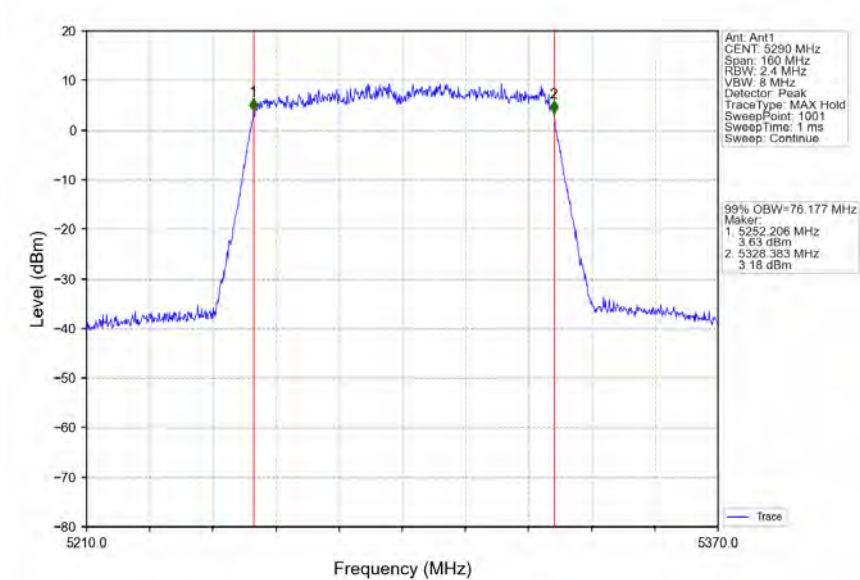
Compliance Certification Services (Kunshan) Inc.

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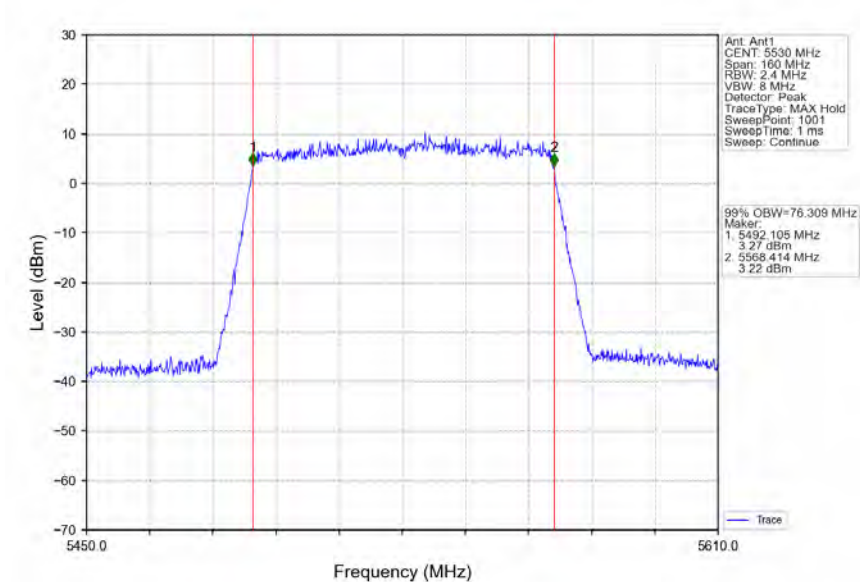
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802.11ac(VHT80) MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80) LCH_5530MHz_Ant1_NTNV



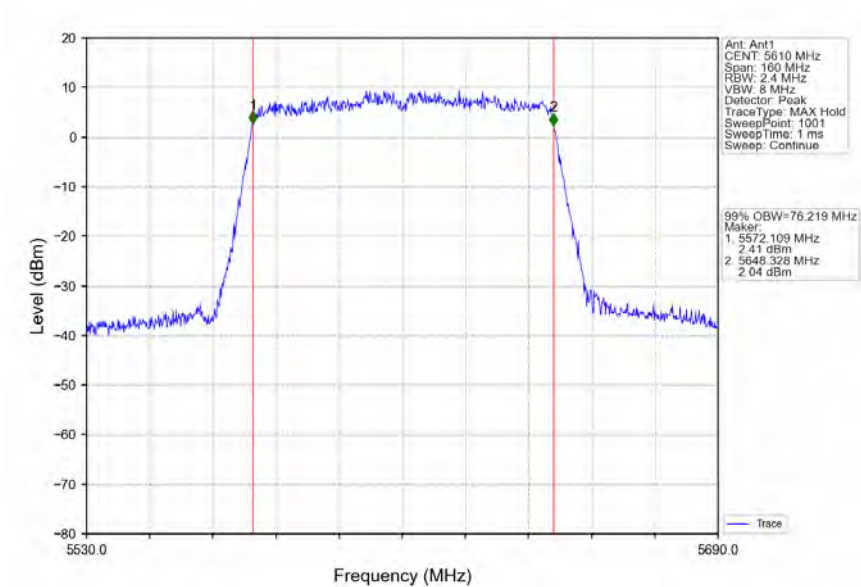
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802.11ac(VHT80) HCH 5610MHz Ant1 NTN



802.11ac(VHT80) MCH 5775MHz Ant1 NTN

