

# TEST REPORT

**Application No.:** SHCR2302000255AT  
**FCC ID:** 2AH25FCRADLE  
**IC:** 22621-FCRADLE  
**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:** Function Cradle  
**Model No.:** ND0X0, ND0W0 ♣  
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** SUNMI  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
RSS-247 Issue 2, February 2017  
RSS-Gen Issue 5 Amendment 2 (February 2021)  
**Date of Receipt:** 2023-02-14  
**Date of Test:** 2023-02-21 to 2023-02-22  
**Date of Issue:** 2023-02-22

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

Parlan Zhan

Parlan Zhan  
Laboratory Manager



Revision Record			
Version	Description	Date	Remark
00	Original	2023-02-22	/

Authorized for issue by:			
		<i>Michael Niu</i>	
		_____	
		Micheal_Niu/Project Engineer	
		<i>Parlan Zhan</i>	
		_____	
		Parlam Zhan/Reviewer	



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## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Customer Declaration

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	RSS-Gen Clause 8.8	ANSI C63.10 (2013) Section 6.2	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Section 11.8.1	Pass
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.2	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.3	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.13.3.2	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass

### Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the Identical in electrical and electronic characters. Only the model ND0W0 was tested since their differences were the model number and appearance.



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### 3 Contents

	Page
<b>1 COVER PAGE</b> .....	<b>1</b>
<b>2 TEST SUMMARY</b> .....	<b>3</b>
<b>3 CONTENTS</b> .....	<b>4</b>
<b>4 GENERAL INFORMATION</b> .....	<b>6</b>
4.1 DETAILS OF E.U.T. ....	6
4.2 DESCRIPTION OF SUPPORT UNITS .....	6
4.3 MEASUREMENT UNCERTAINTY .....	7
4.4 TEST LOCATION.....	8
4.5 TEST FACILITY.....	8
4.6 DEVIATION FROM STANDARDS .....	8
4.7 ABNORMALITIES FROM STANDARD CONDITIONS .....	8
<b>5 EQUIPMENT LIST</b> .....	<b>9</b>
<b>6 RADIO SPECTRUM TECHNICAL REQUIREMENT</b> .....	<b>11</b>
6.1 ANTENNA REQUIREMENT .....	11
6.1.1 <i>Test Requirement:</i> .....	11
6.1.2 <i>Conclusion</i> .....	11
<b>7 RADIO SPECTRUM MATTER TEST RESULTS</b> .....	<b>12</b>
7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ).....	12
7.1.1 <i>E.U.T. Operation</i> .....	12
7.1.2 <i>Test Mode Description</i> .....	12
7.1.3 <i>Test Setup Diagram</i> .....	13
7.1.4 <i>Measurement Procedure and Data</i> .....	13
7.2 CONDUCTED PEAK OUTPUT POWER .....	16
7.2.1 <i>E.U.T. Operation</i> .....	16
7.2.2 <i>Test Mode Description</i> .....	16
7.2.3 <i>Test Setup Diagram</i> .....	17
7.2.4 <i>Measurement Procedure and Data</i> .....	17
7.3 MINIMUM 6DB BANDWIDTH.....	18
7.3.1 <i>E.U.T. Operation</i> .....	18
7.3.2 <i>Test Mode Description</i> .....	18
7.3.3 <i>Test Setup Diagram</i> .....	18
7.3.4 <i>Measurement Procedure and Data</i> .....	18
7.4 POWER SPECTRUM DENSITY .....	19
7.4.1 <i>E.U.T. Operation</i> .....	19
7.4.2 <i>Test Mode Description</i> .....	19
7.4.3 <i>Test Setup Diagram</i> .....	19
7.4.4 <i>Measurement Procedure and Data</i> .....	19
7.5 CONDUCTED BAND EDGES MEASUREMENT .....	20
7.5.1 <i>E.U.T. Operation</i> .....	20



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7.5.2 Test Mode Description.....20

7.5.3 Test Setup Diagram.....21

7.5.4 Measurement Procedure and Data.....21

7.6 CONDUCTED SPURIOUS EMISSIONS.....22

7.6.1 E.U.T. Operation.....22

7.6.2 Test Mode Description.....22

7.6.3 Test Setup Diagram.....23

7.6.4 Measurement Procedure and Data.....23

7.7 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS .....24

7.7.1 E.U.T. Operation.....24

7.7.2 Test Mode Description.....24

7.7.3 Test Setup Diagram.....25

7.7.4 Measurement Procedure and Data.....26

7.8 RADIATED SPURIOUS EMISSIONS BELOW 1GHZ.....56

7.8.1 E.U.T. Operation.....56

7.8.2 Test Mode Description.....56

7.8.3 Test Setup Diagram.....57

7.8.4 Measurement Procedure and Data.....58

7.9 RADIATED SPURIOUS EMISSIONS ABOVE 1GHZ .....61

7.9.1 E.U.T. Operation.....61

7.9.2 Test Mode Description.....61

7.9.3 Test Setup Diagram.....61

7.9.4 Measurement Procedure and Data.....62

7.10 99% BANDWIDTH .....87

7.10.1 E.U.T. Operation.....87

7.10.2 Test Mode Description.....87

7.10.3 Test Setup Diagram.....87

7.10.4 Measurement Procedure and Data .....87

8 TEST SETUP PHOTO.....88

9 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS) .....88

10 APPENDIX.....89



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## 4 General Information

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

Power supply:	DC 5V,2A
Channel Spacing:	5MHz
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	Antenna 1:1.7dBi (Provided by the manufacturer) Antenna 2:2.77dBi (Provided by the manufacturer) Directional gain:5.28dBi
Date Rate:	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-MCS7
S/N:	MM01D31X00097
Firmware Version:	CE10_V2.0.9_20230106

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC Adapter	DVE	/	/
Notebook	LENOVO	/	/



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**4.3 Measurement Uncertainty**

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

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



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#### 4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

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

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

#### 4.5 Test Facility

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

• **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; CAB Identifier: CN0072.

• **VCCI**

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

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
<b>Conducted Emission at Mains Terminals (150kHz-30MHz)</b>						
1	EMI Test Receive	R&S	ESCI	KS301101	02/03/2023	02/02/2024
2	LISN	R&S	ENV216	KS301197	01/17/2023	01/16/2024
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/17/2023	01/16/2024
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	01/17/2023	01/16/2024
5	CE test Cable	Thermax	/	CZ301102	01/17/2023	01/16/2024
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
<b>RF Conducted Test</b>						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/22/2022	08/21/2023
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/22/2022	08/21/2023
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	02/03/2023	02/02/2024
4	Signal Generator	R&S	SMW200A	KSEM020-1	08/22/2022	08/21/2023
5	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/22/2022	08/21/2023
6	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
7	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	04/01/2022	03/31/2023
8	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/22/2022	08/21/2023
9	Switcher	CCSRF	FY562	KUS2001M001-3	08/22/2022	08/21/2023
10	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
11	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111- CZ301120	02/03/2023	02/02/2024
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/14/2022	04/13/2023
15	Software	BST	TST-PASS	/	N/A	N/A
<b>RF Radiated Test</b>						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	08/22/2022	08/21/2023
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	04/02/2022	04/01/2024
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021 02/22/2023	02/21/2023 02/22/2025
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/17/2022	03/16/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/17/2023	01/16/2024
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2023	01/21/2025



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

Report No.: SHCR230200025501

Page: 10 of 184

12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/12/2022	11/11/2023
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	03/31/2023
14	Software	Faratronic	EZ_EMV-v 3A1	/	N/A	N/A



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

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

#### 6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna 1 and antenna 2 is PIFA antenna, and all no consideration of replacement. The best case gain of the antenna 1 is 1.70dBi. and antenna 2 is 2.77dBi.

Antenna location: Refer to internal photo.



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## 7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

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

Limit:

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

\*Decreases with the logarithm of the frequency.  
 Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

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

Operating Environment:

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

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

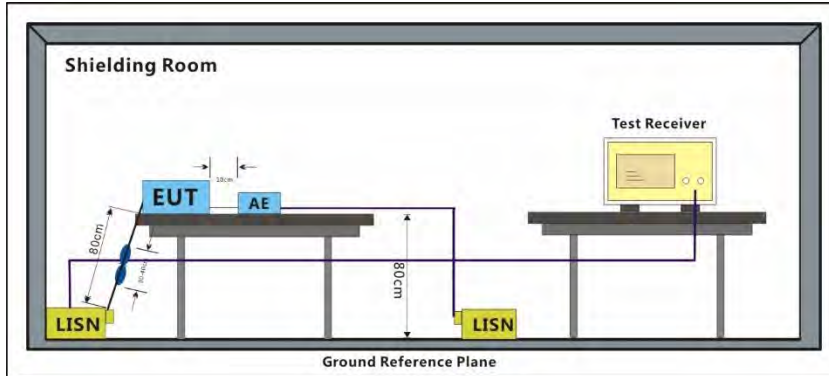


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**7.1.3 Test Setup Diagram**



**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.

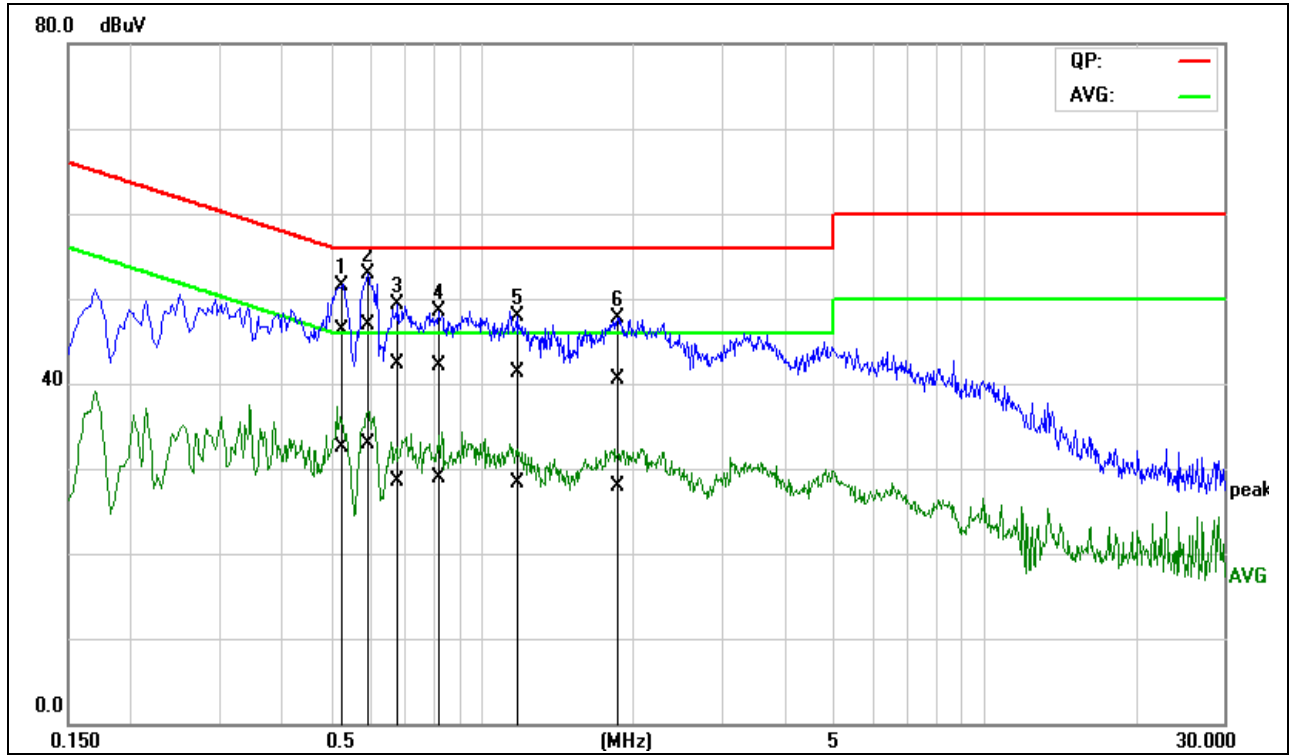
Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 00; Line: Live line



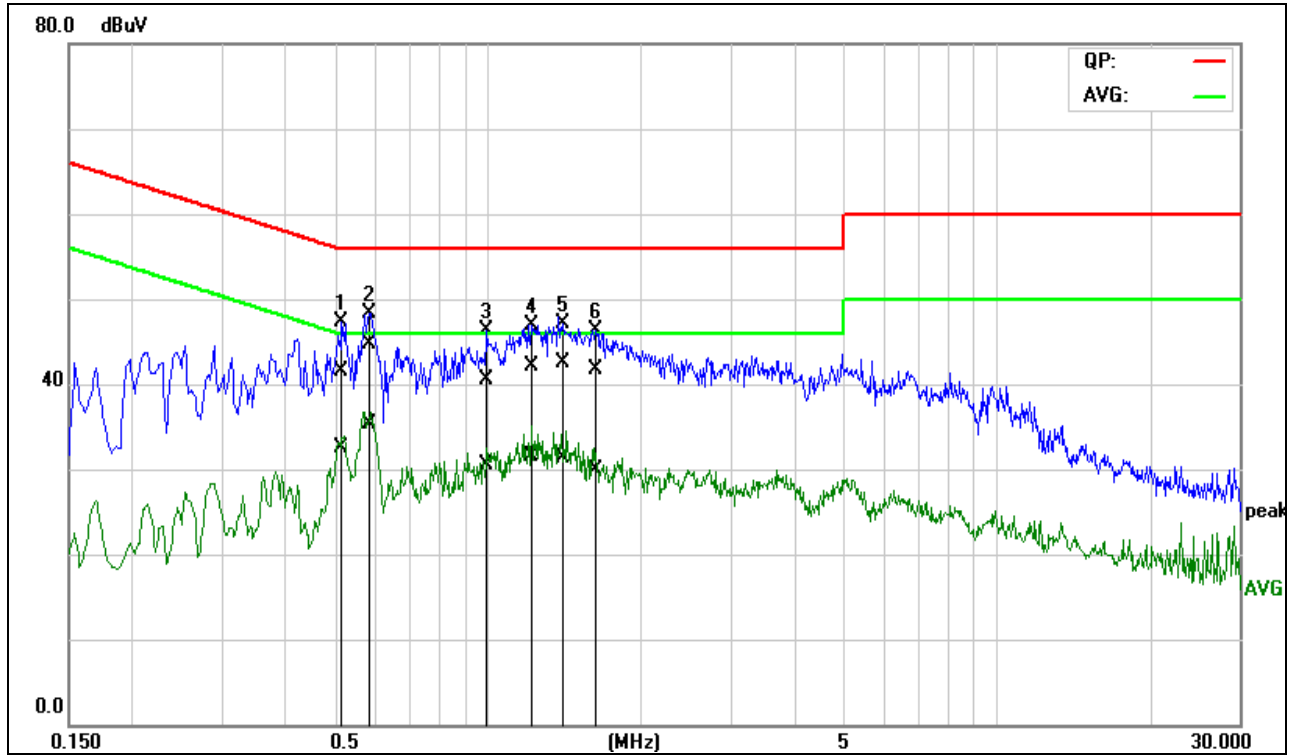
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.5174	26.77	12.90	19.56	46.33	32.46	56.00	46.00	-9.67	-13.54	Pass
2*	0.5857	27.40	13.40	19.56	46.96	32.96	56.00	46.00	-9.04	-13.04	Pass
3	0.6719	22.74	8.84	19.57	42.31	28.41	56.00	46.00	-13.69	-17.59	Pass
4	0.8195	22.54	9.42	19.58	42.12	29.00	56.00	46.00	-13.88	-17.00	Pass
5	1.1671	21.68	8.63	19.61	41.29	28.24	56.00	46.00	-14.71	-17.76	Pass
6	1.8544	20.84	8.30	19.64	40.48	27.94	56.00	46.00	-15.52	-18.06	Pass



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Test Mode: 00; Line: Neutral 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	0.5079	21.90	13.04	19.56	41.46	32.60	56.00	46.00	-14.54	-13.40	Pass
2*	0.5886	25.05	15.77	19.56	44.61	35.33	56.00	46.00	-11.39	-10.67	Pass
3	1.0026	20.99	10.98	19.60	40.59	30.58	56.00	46.00	-15.41	-15.42	Pass
4	1.2115	22.56	11.99	19.61	42.17	31.60	56.00	46.00	-13.83	-14.40	Pass
5	1.4029	22.84	11.66	19.62	42.46	31.28	56.00	46.00	-13.54	-14.72	Pass
6	1.6079	22.12	10.31	19.63	41.75	29.94	56.00	46.00	-14.25	-16.06	Pass



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**7.2 Conducted Peak Output Power**

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

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

**7.2.1 E.U.T. Operation**

Operating Environment:

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

**7.2.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

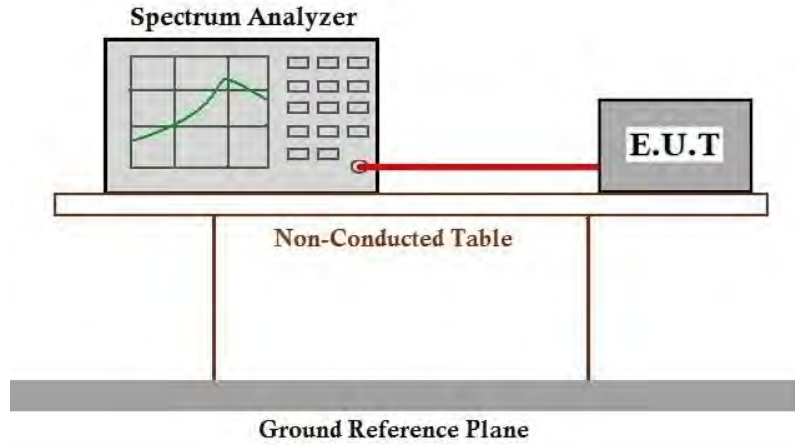


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**7.2.3 Test Setup Diagram**



**7.2.4 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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**7.3 Minimum 6dB Bandwidth**

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:  
 $\geq 500$  kHz

**7.3.1 E.U.T. Operation**

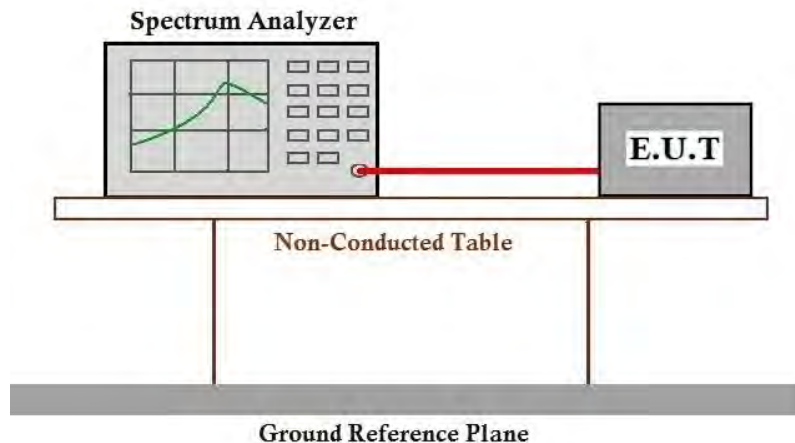
Operating Environment:

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

**7.3.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

**7.3.3 Test Setup Diagram**



**7.3.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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**7.4 Power Spectrum Density**

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

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

Operating Environment:

Temperature: 24 °C

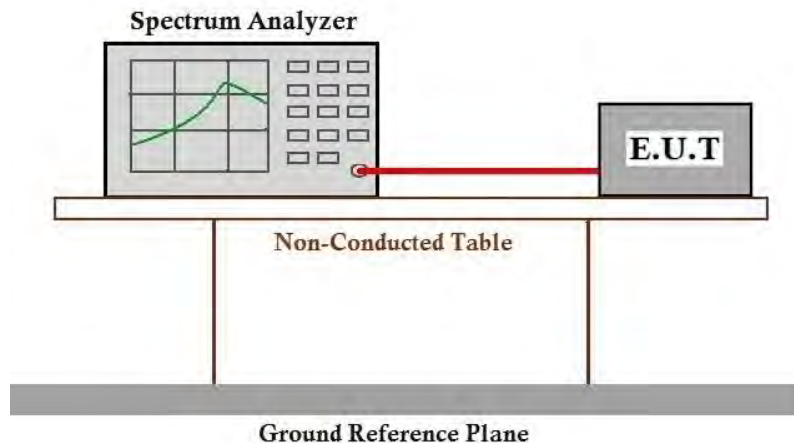
Humidity: 48 % RH

Atmospheric Pressure: 1010 mbar

**7.4.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

**7.4.3 Test Setup Diagram**



**7.4.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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**7.5 Conducted Band Edges Measurement**

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)  
 Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

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

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

Operating Environment:

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

**7.5.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

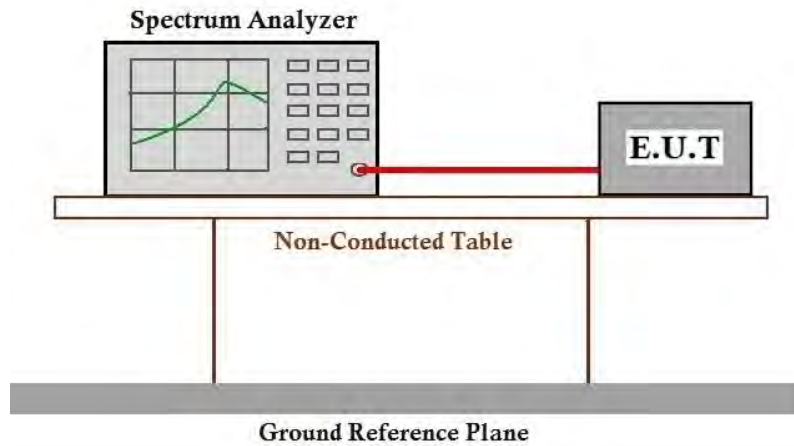


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**7.5.3 Test Setup Diagram**



**7.5.4 Measurement Procedure and Data**

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**7.6 Conducted Spurious Emissions**

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

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

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

Operating Environment:

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

**7.6.2 Test Mode Description**

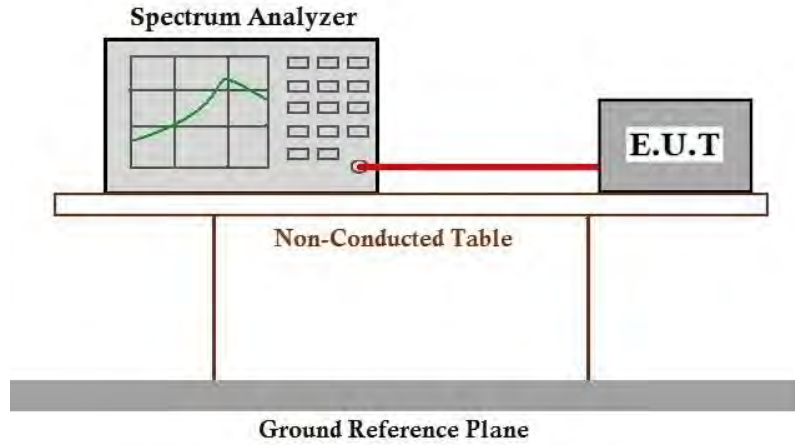
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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**7.6.3 Test Setup Diagram**



**7.6.4 Measurement Procedure and Data**

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**7.7 Radiated Emissions which fall in the restricted bands**

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

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

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

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

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

Operating Environment:

Temperature: 15.1 °C Humidity: 40.6 % RH Atmospheric Pressure: 1010 mbar

**7.7.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

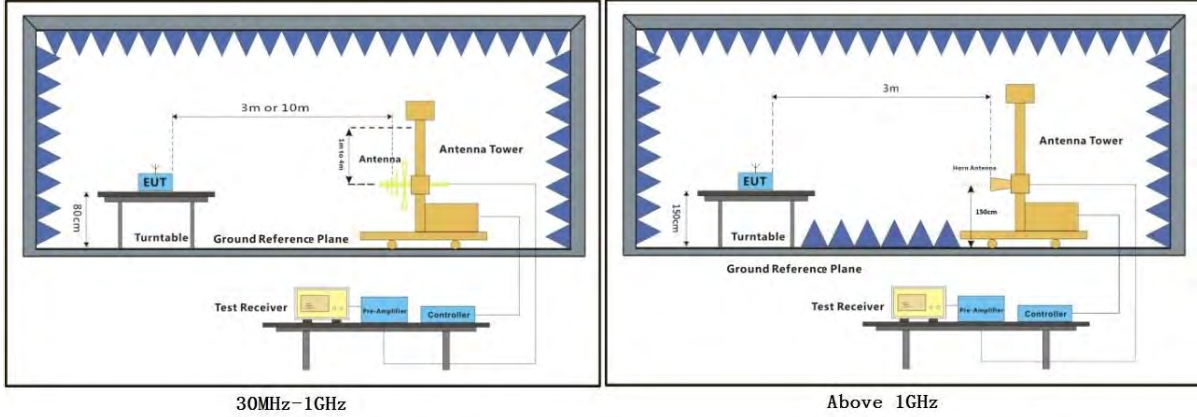


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7.7.3 Test Setup Diagram



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**7.7.4 Measurement Procedure and Data**

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

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

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

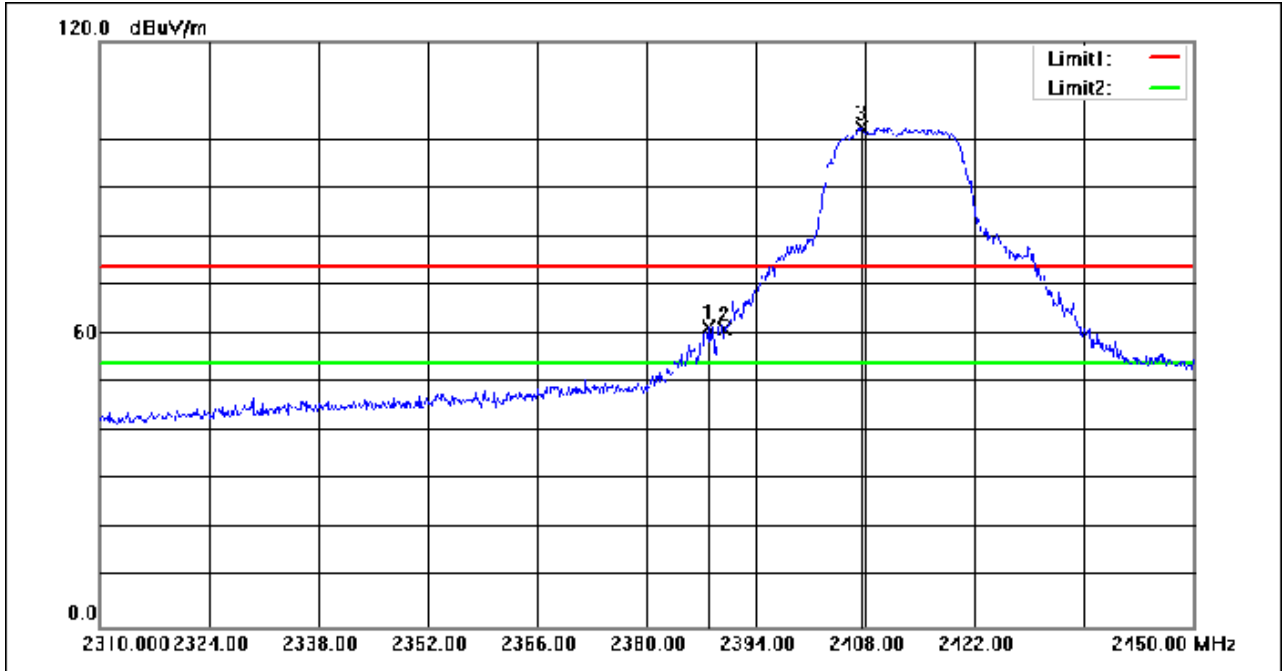
Remark 3: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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



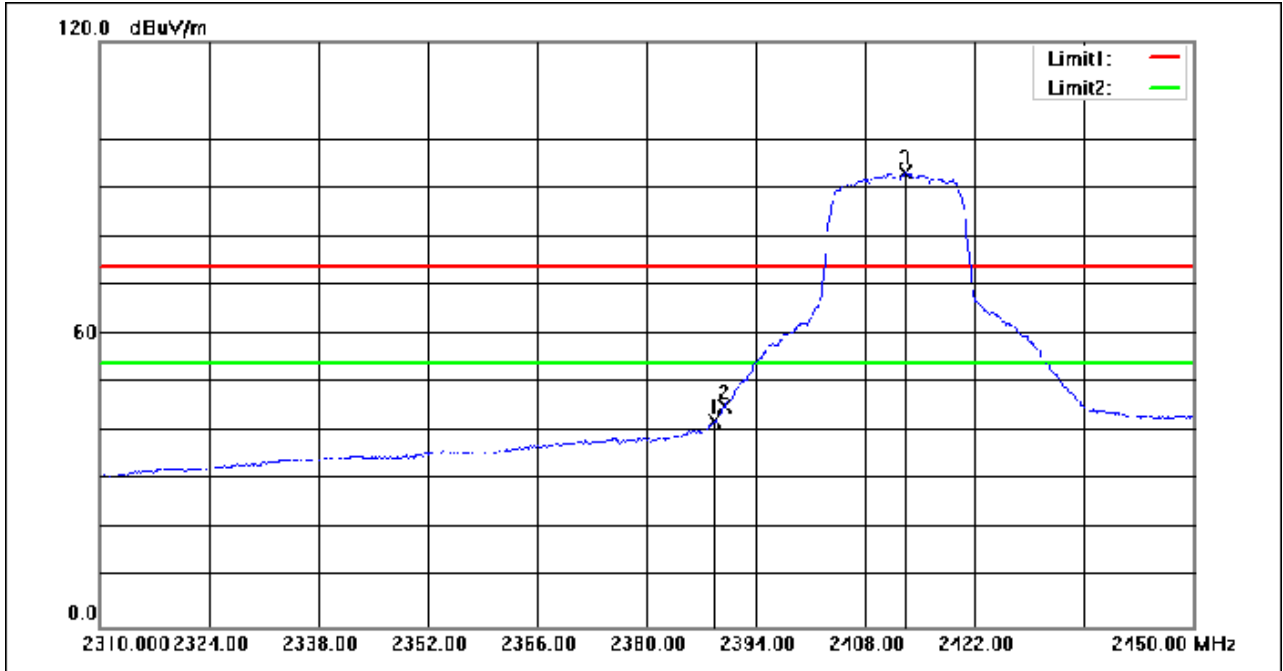
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.980	80.08	-18.68	61.40	74.00	-12.60	peak
2	2390.000	79.62	-18.67	60.95	74.00	-13.05	peak
3	2407.440	121.13	-18.60	102.53	74.00	28.53	peak



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.680	60.71	-18.68	42.03	54.00	-11.97	AVG
2	2390.000	63.91	-18.67	45.24	54.00	-8.76	AVG
3	2413.040	111.60	-18.58	93.02	54.00	39.02	AVG

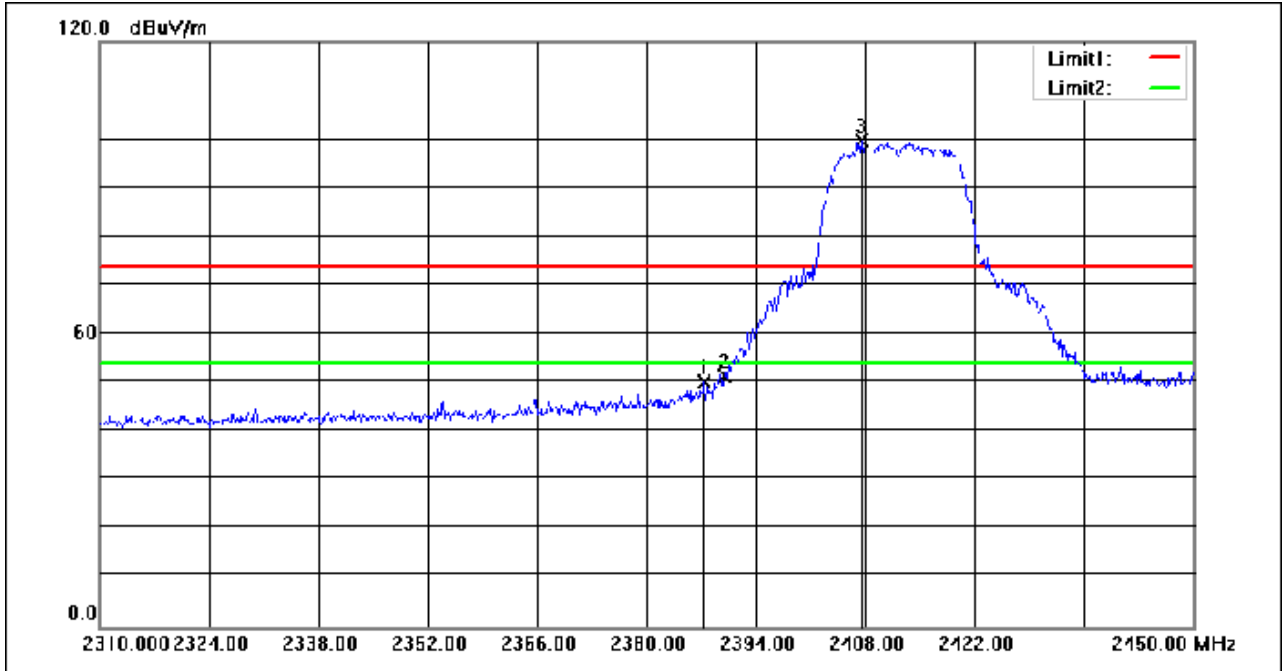


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



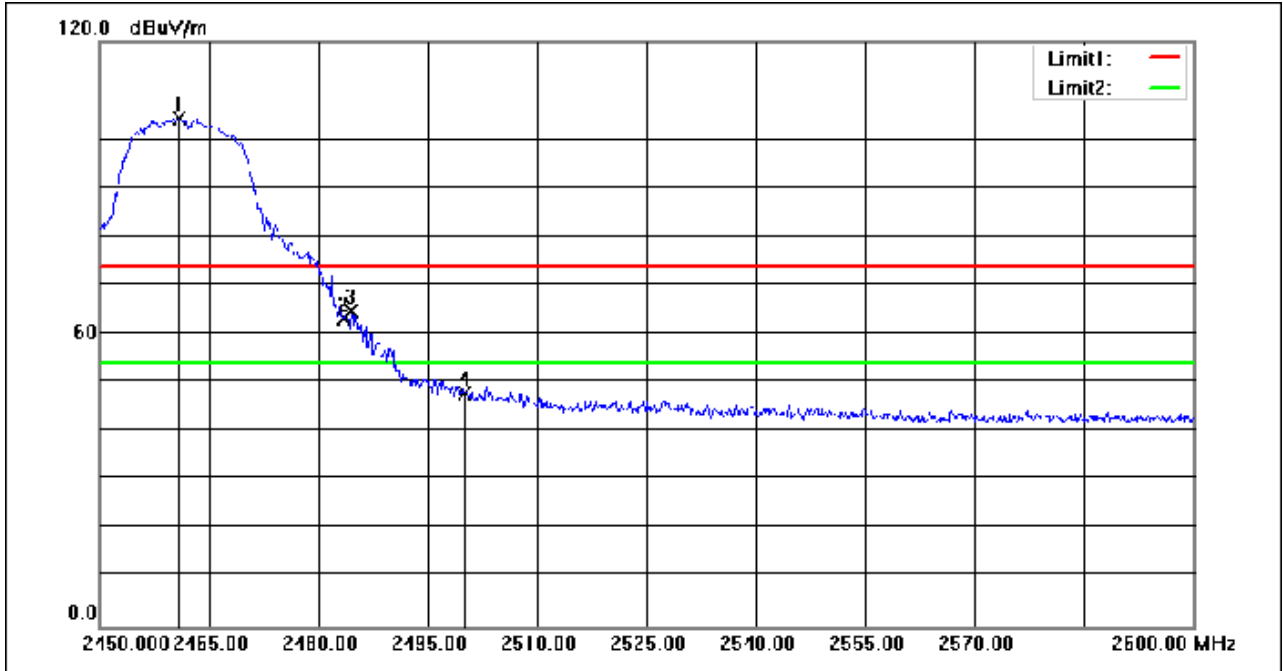
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.280	68.85	-18.69	50.16	74.00	-23.84	peak
2	2390.000	70.02	-18.67	51.35	74.00	-22.65	peak
3	2407.440	118.39	-18.60	99.79	74.00	25.79	peak



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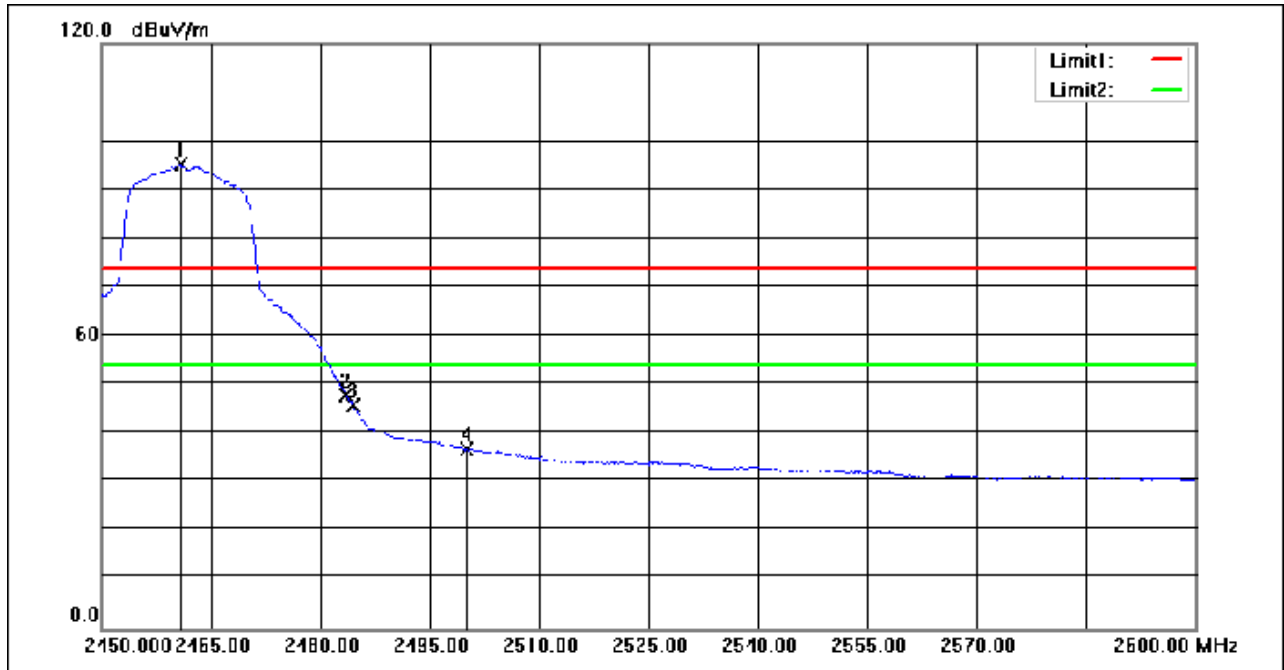
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.950	122.60	-18.38	104.22	74.00	30.22	peak
2	2483.500	81.40	-18.13	63.27	74.00	-10.73	peak
3	2484.500	82.88	-18.12	64.76	74.00	-9.24	peak
4	2500.000	65.77	-17.95	47.82	74.00	-26.18	peak



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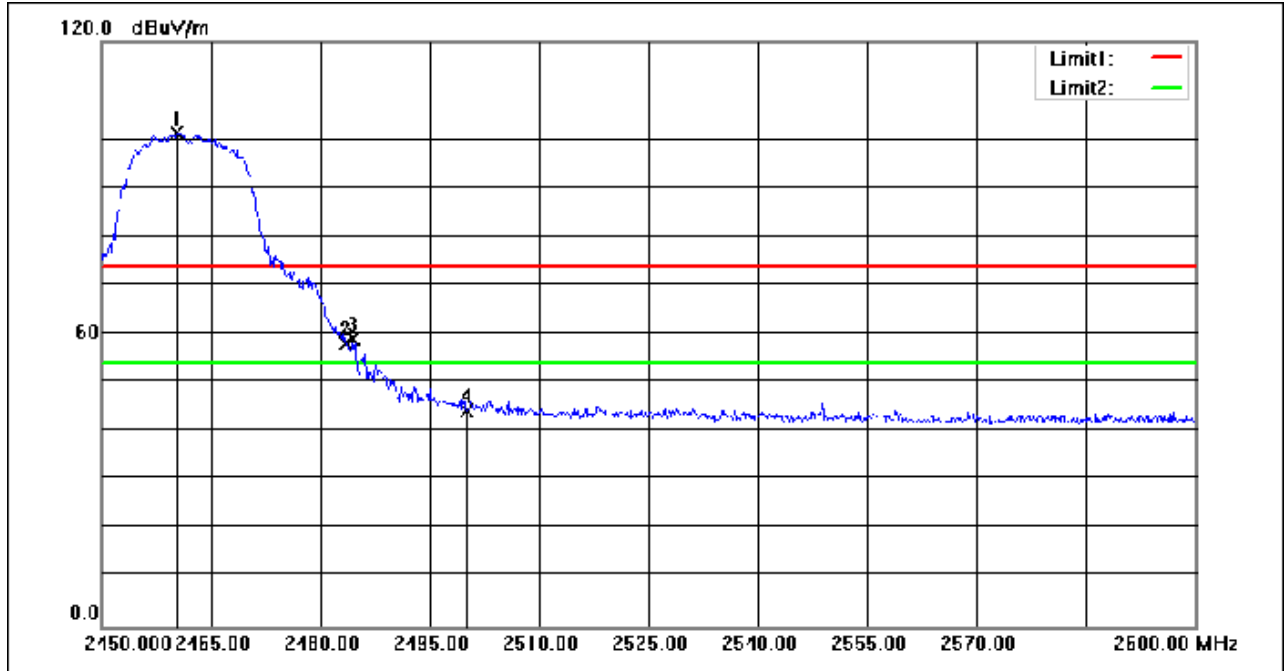
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.800	113.66	-18.38	95.28	54.00	41.28	AVG
2	2483.500	66.11	-18.13	47.98	54.00	-6.02	AVG
3	2484.500	63.75	-18.12	45.63	54.00	-8.37	AVG
4	2500.000	54.61	-17.95	36.66	54.00	-17.34	AVG



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.200	119.56	-18.39	101.17	74.00	27.17	peak
2	2483.500	76.15	-18.13	58.02	74.00	-15.98	peak
3	2484.500	77.07	-18.12	58.95	74.00	-15.05	peak
4	2500.000	62.32	-17.95	44.37	74.00	-29.63	peak

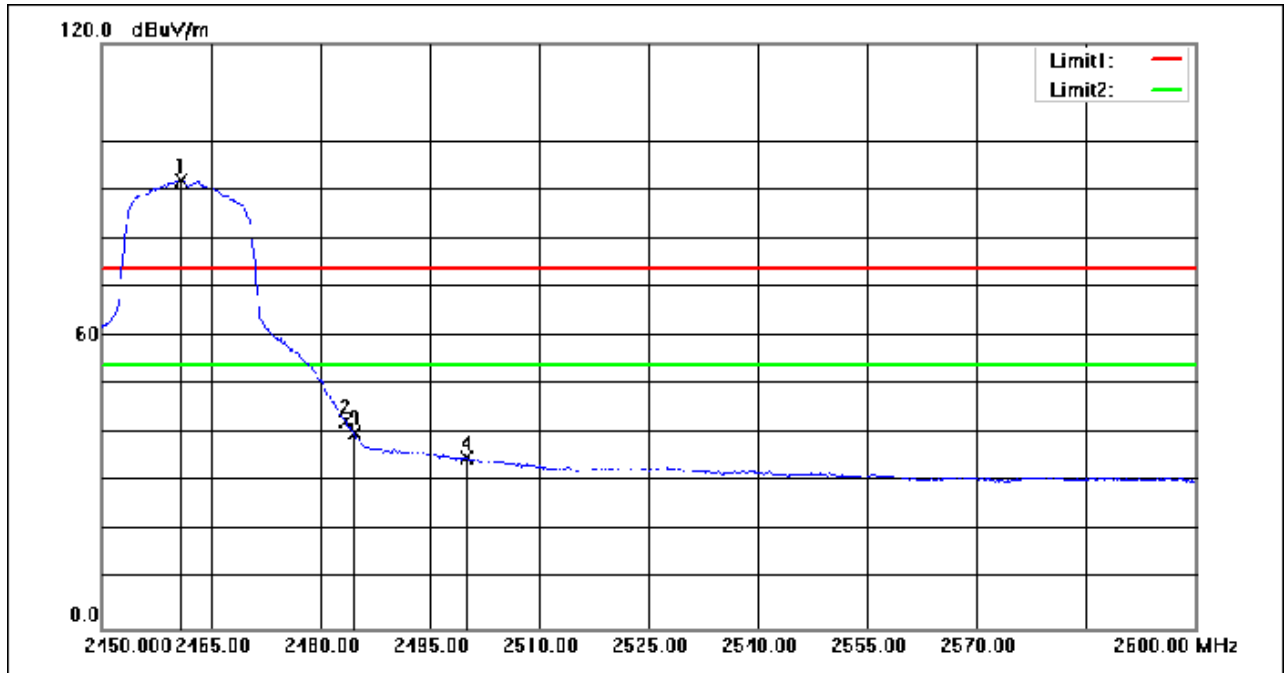


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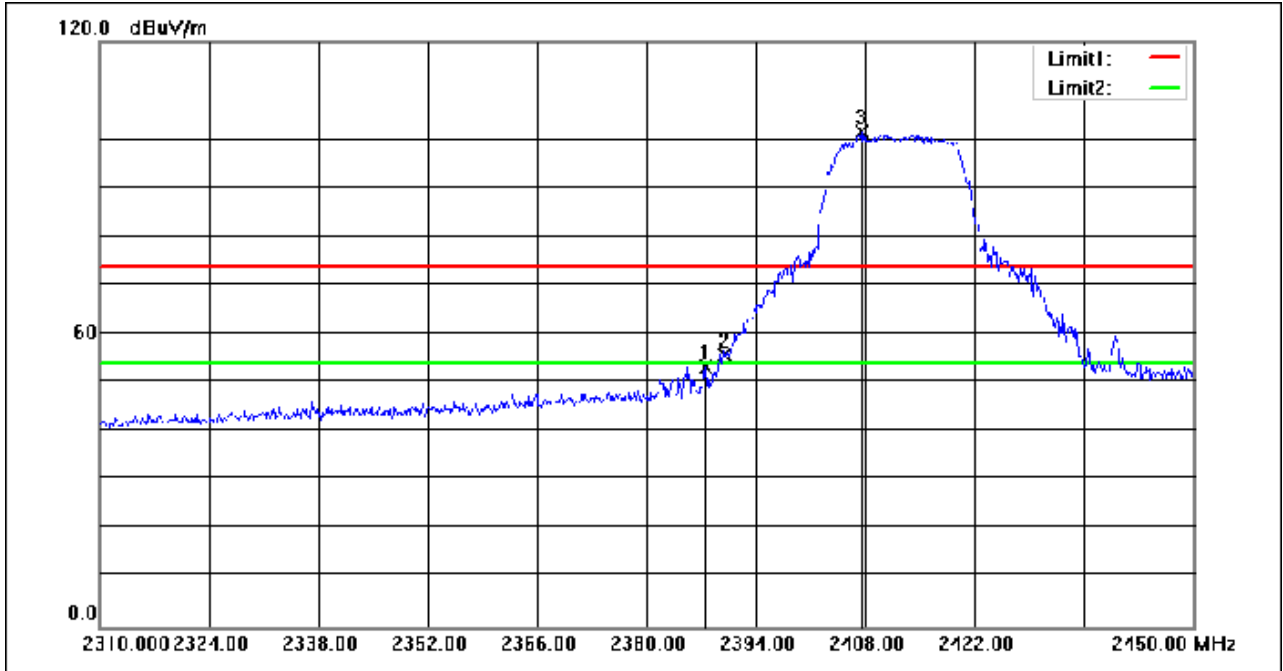
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.950	110.44	-18.38	92.06	54.00	38.06	AVG
2	2483.500	60.61	-18.13	42.48	54.00	-11.52	AVG
3	2484.650	58.30	-18.12	40.18	54.00	-13.82	AVG
4	2500.000	52.87	-17.95	34.92	54.00	-19.08	AVG



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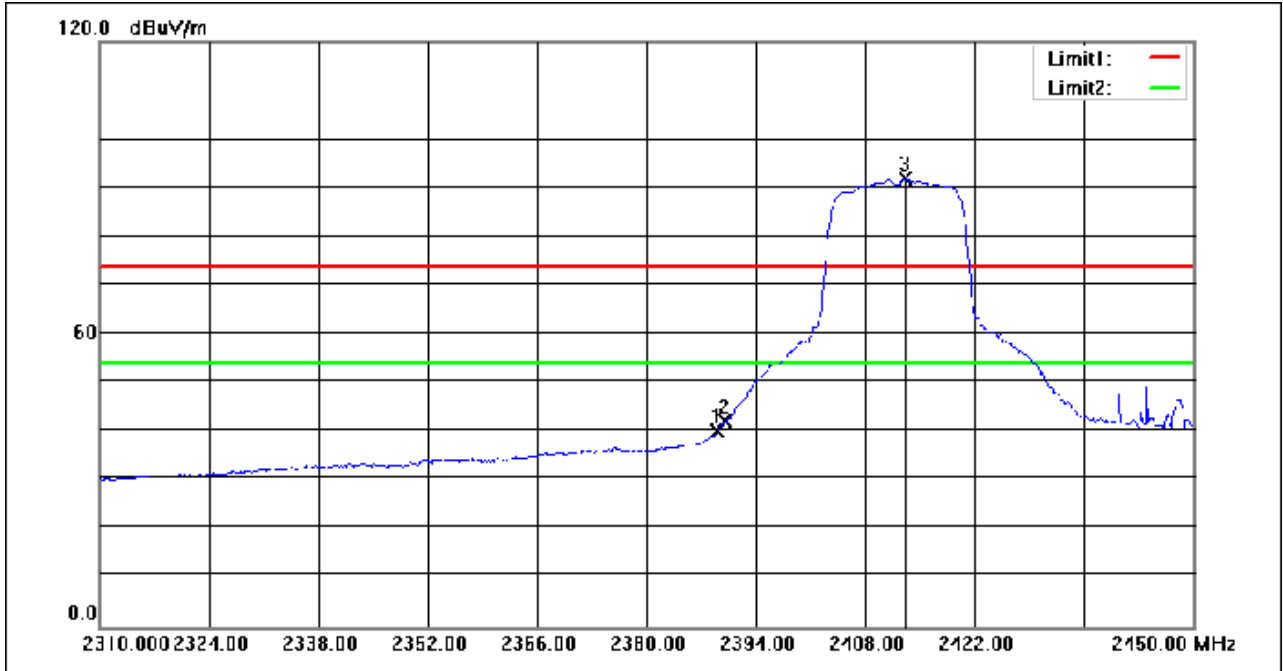
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.560	72.07	-18.69	53.38	74.00	-20.62	peak
2	2390.000	74.43	-18.67	55.76	74.00	-18.24	peak
3	2407.440	120.24	-18.60	101.64	74.00	27.64	peak



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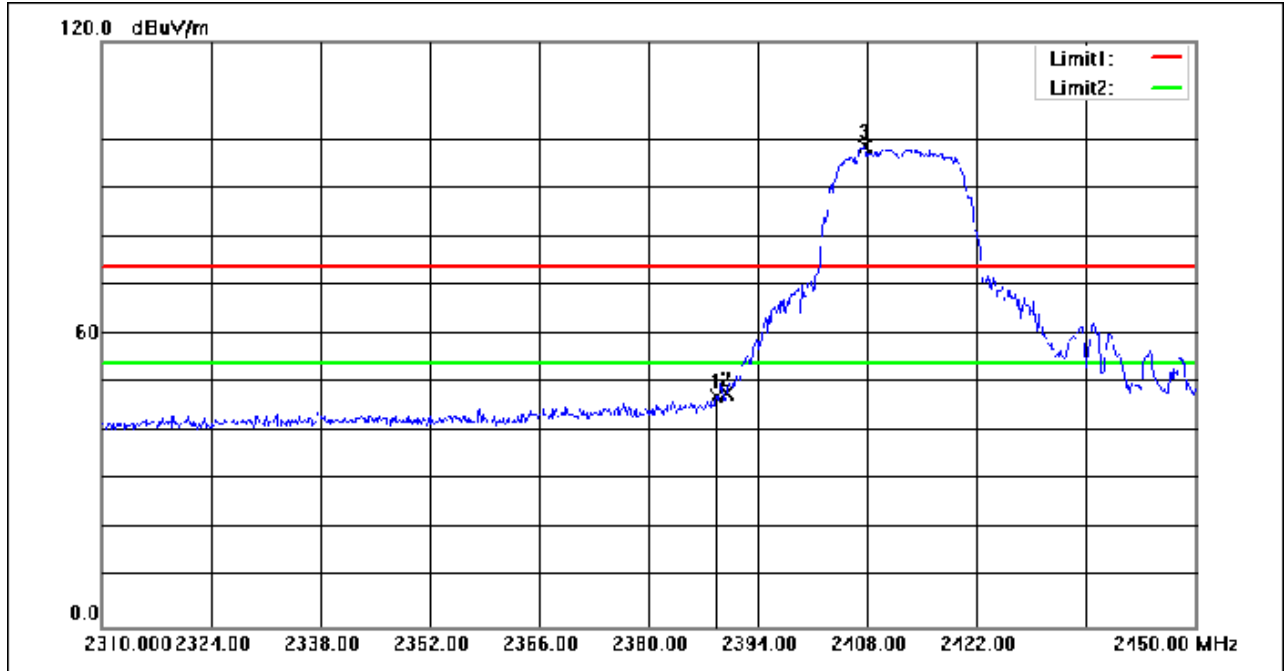
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.100	58.79	-18.68	40.11	54.00	-13.89	AVG
2	2390.000	60.77	-18.67	42.10	54.00	-11.90	AVG
3	2413.180	110.40	-18.58	91.82	54.00	37.82	AVG



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.680	65.85	-18.68	47.17	74.00	-26.83	peak
2	2390.000	66.47	-18.67	47.80	74.00	-26.20	peak
3	2407.720	117.12	-18.60	98.52	74.00	24.52	peak

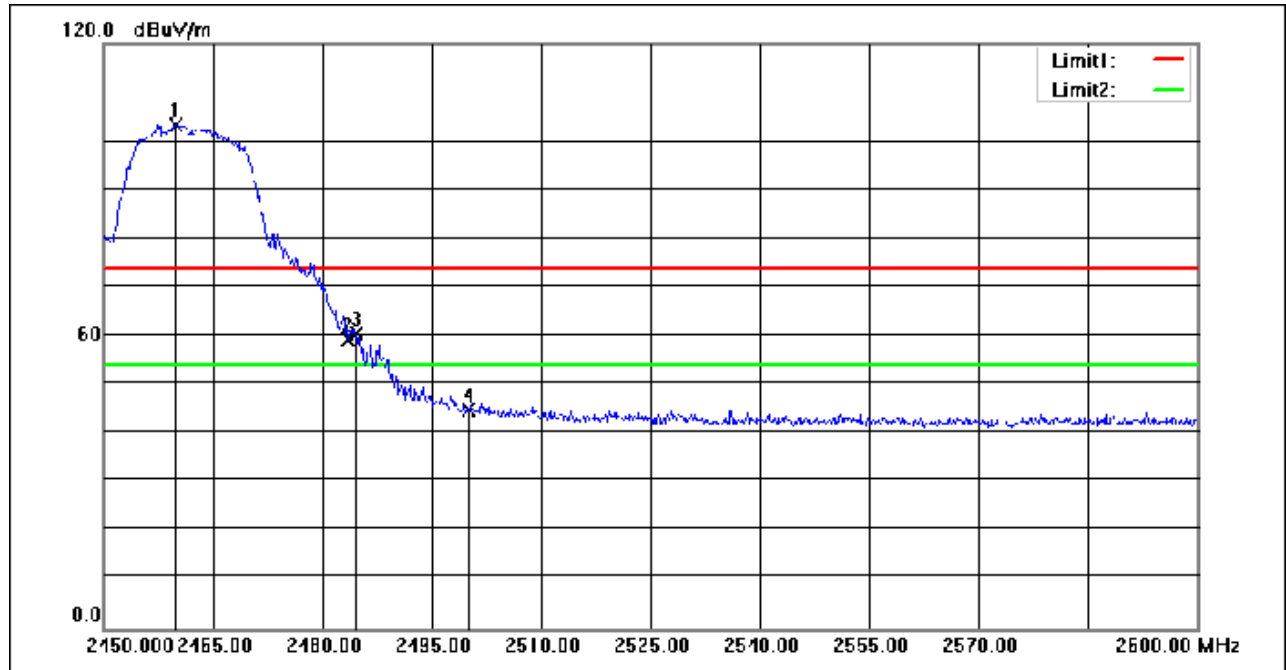


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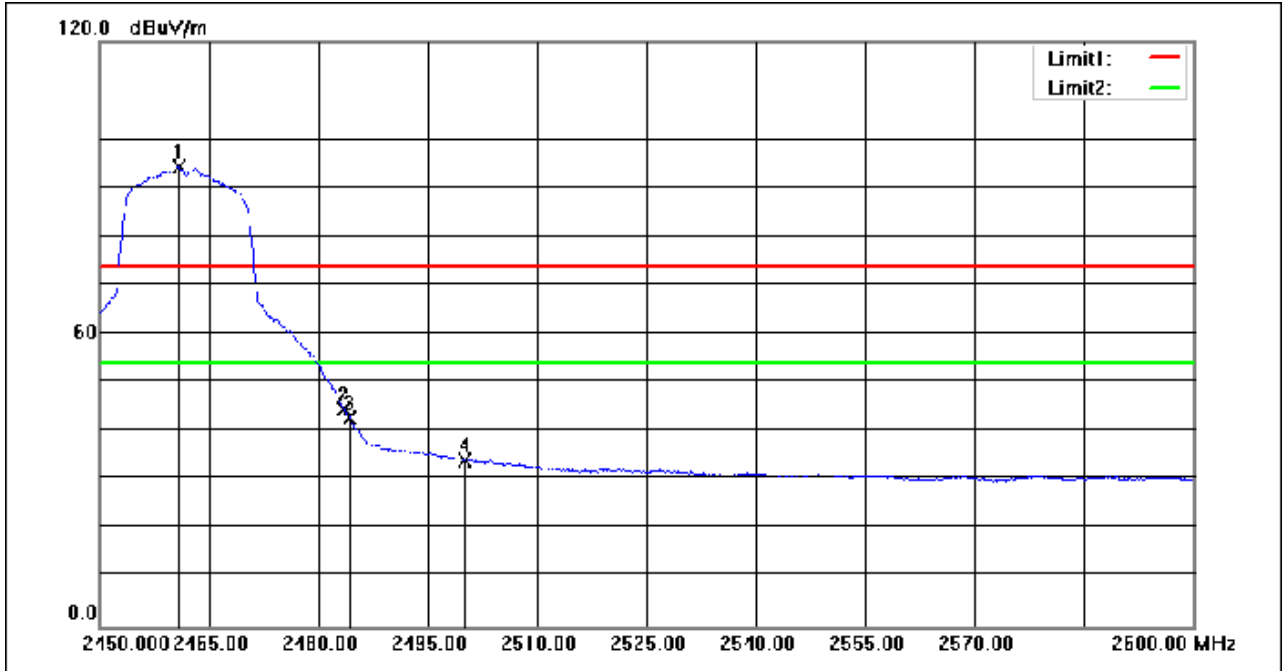
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.900	121.81	-18.39	103.42	74.00	29.42	peak
2	2483.500	77.37	-18.13	59.24	74.00	-14.76	peak
3	2484.650	78.67	-18.12	60.55	74.00	-13.45	peak
4	2500.000	62.65	-17.95	44.70	74.00	-29.30	peak



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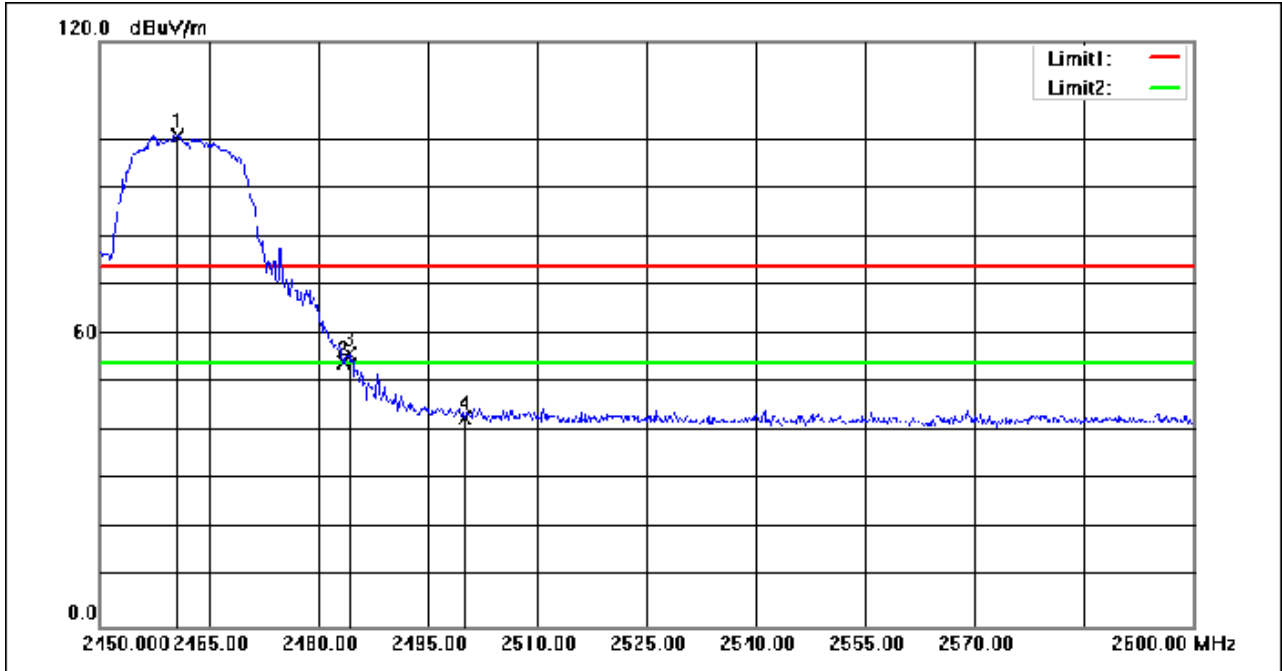
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.800	112.66	-18.38	94.28	54.00	40.28	AVG
2	2483.500	62.69	-18.13	44.56	54.00	-9.44	AVG
3	2484.350	60.93	-18.13	42.80	54.00	-11.20	AVG
4	2500.000	52.05	-17.95	34.10	54.00	-19.90	AVG



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



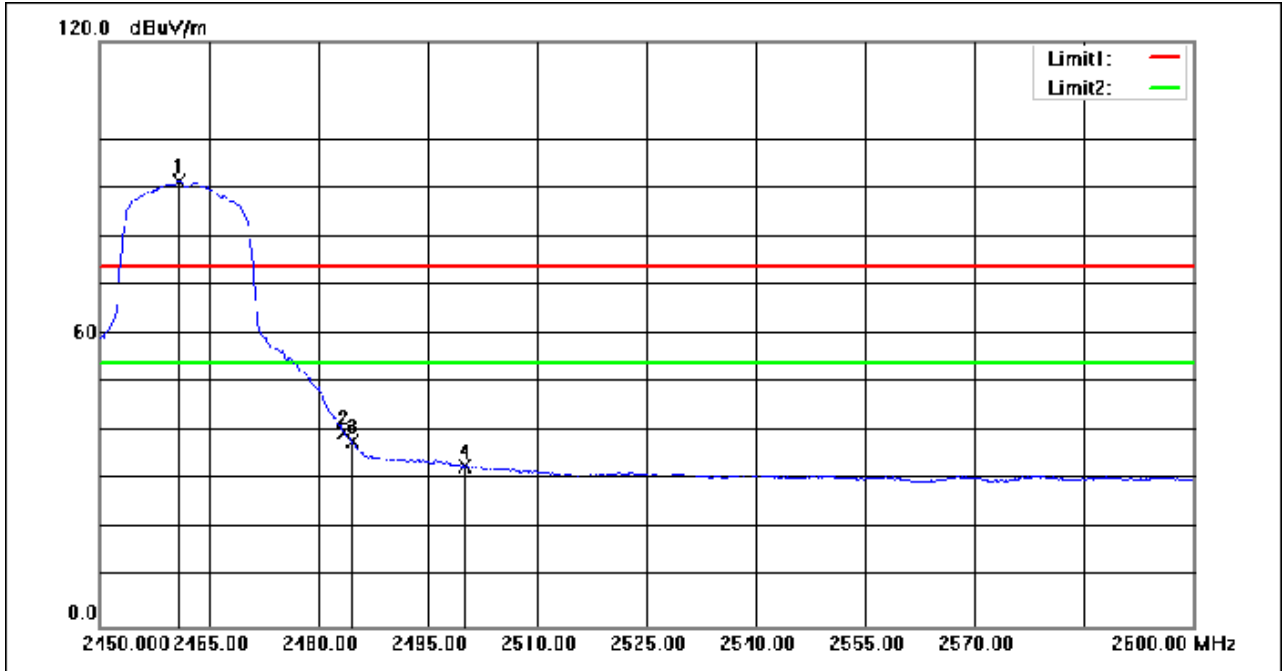
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.650	119.11	-18.38	100.73	74.00	26.73	peak
2	2483.500	72.43	-18.13	54.30	74.00	-19.70	peak
3	2484.200	74.14	-18.13	56.01	74.00	-17.99	peak
4	2500.000	60.73	-17.95	42.78	74.00	-31.22	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.950	109.82	-18.38	91.44	54.00	37.44	AVG
2	2483.500	57.93	-18.13	39.80	54.00	-14.20	AVG
3	2484.650	56.03	-18.12	37.91	54.00	-16.09	AVG
4	2500.000	50.90	-17.95	32.95	54.00	-21.05	AVG

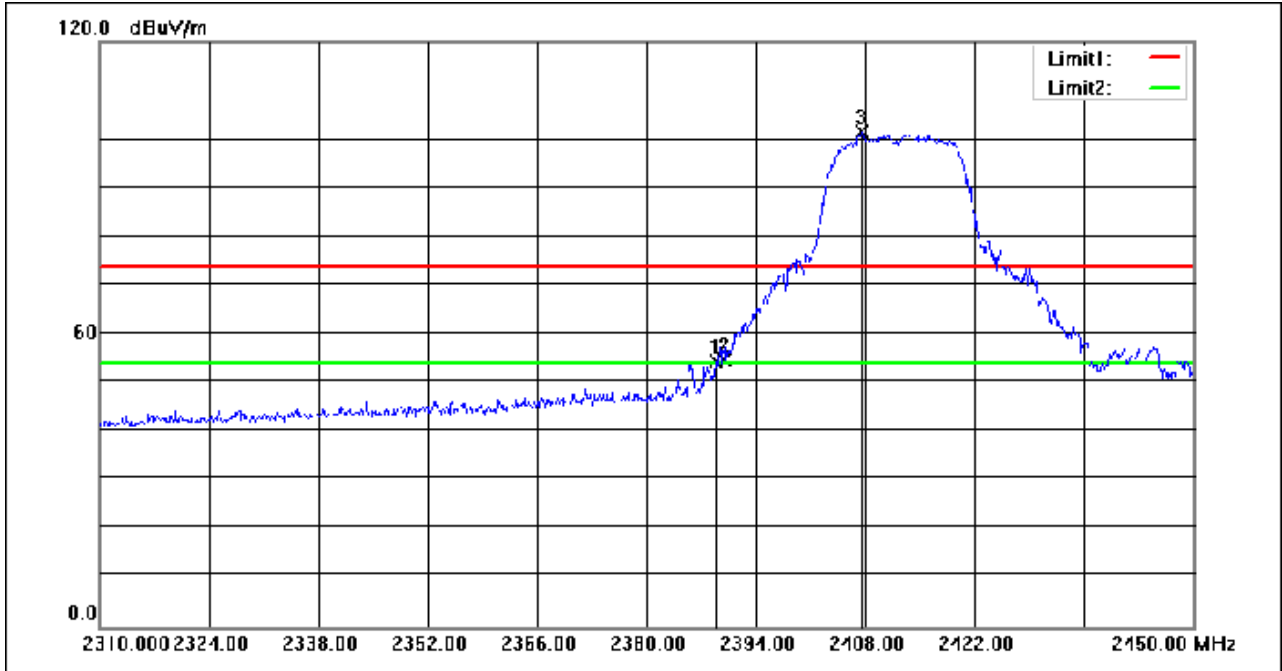


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



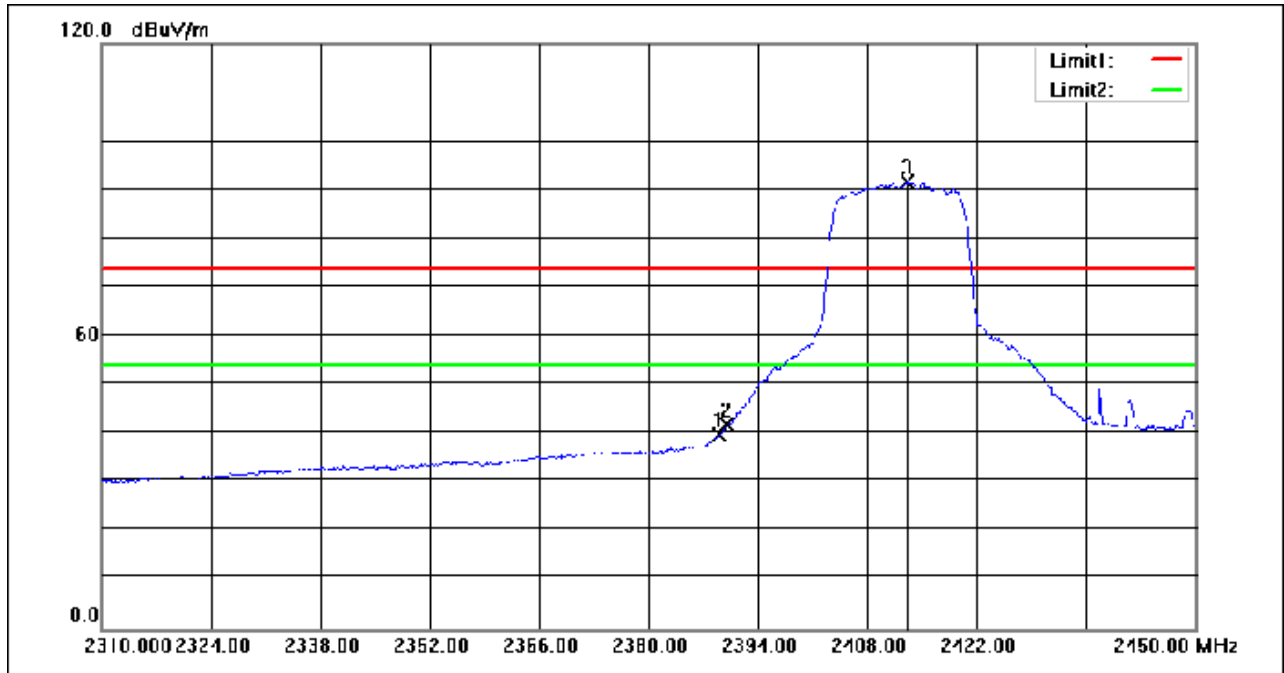
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.820	73.11	-18.68	54.43	74.00	-19.57	peak
2	2390.000	73.29	-18.67	54.62	74.00	-19.38	peak
3	2407.580	120.05	-18.60	101.45	74.00	27.45	peak



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



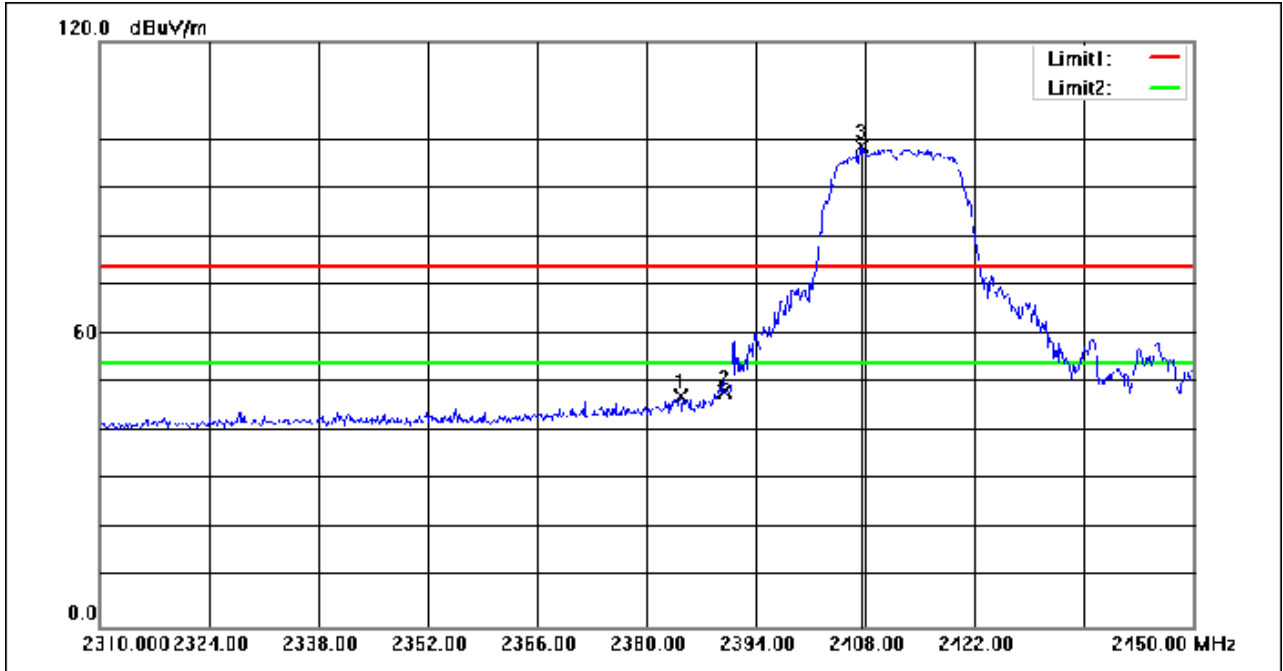
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.100	58.50	-18.68	39.82	54.00	-14.18	AVG
2	2390.000	60.48	-18.67	41.81	54.00	-12.19	AVG
3	2413.040	110.22	-18.58	91.64	54.00	37.64	AVG



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



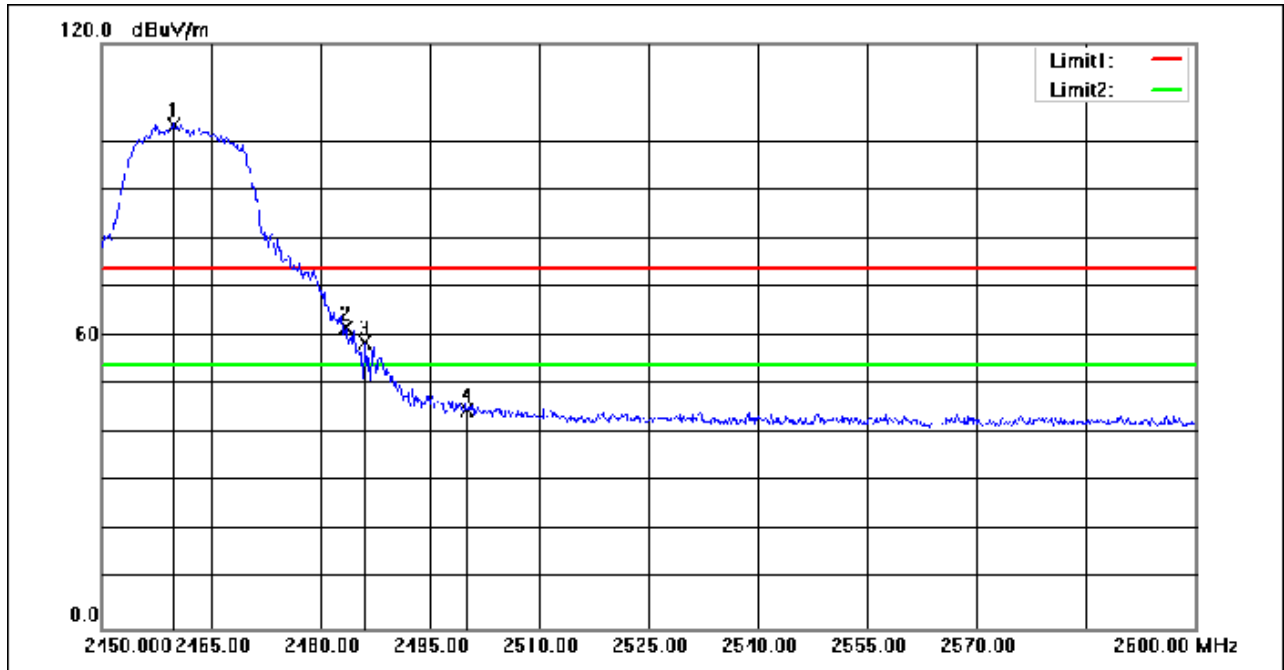
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.340	65.92	-18.71	47.21	74.00	-26.79	peak
2	2390.000	66.76	-18.67	48.09	74.00	-25.91	peak
3	2407.440	117.05	-18.60	98.45	74.00	24.45	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.900	121.89	-18.39	103.50	74.00	29.50	peak
2	2483.500	79.93	-18.13	61.80	74.00	-12.20	peak
3	2486.150	76.87	-18.10	58.77	74.00	-15.23	peak
4	2500.000	62.77	-17.95	44.82	74.00	-29.18	peak

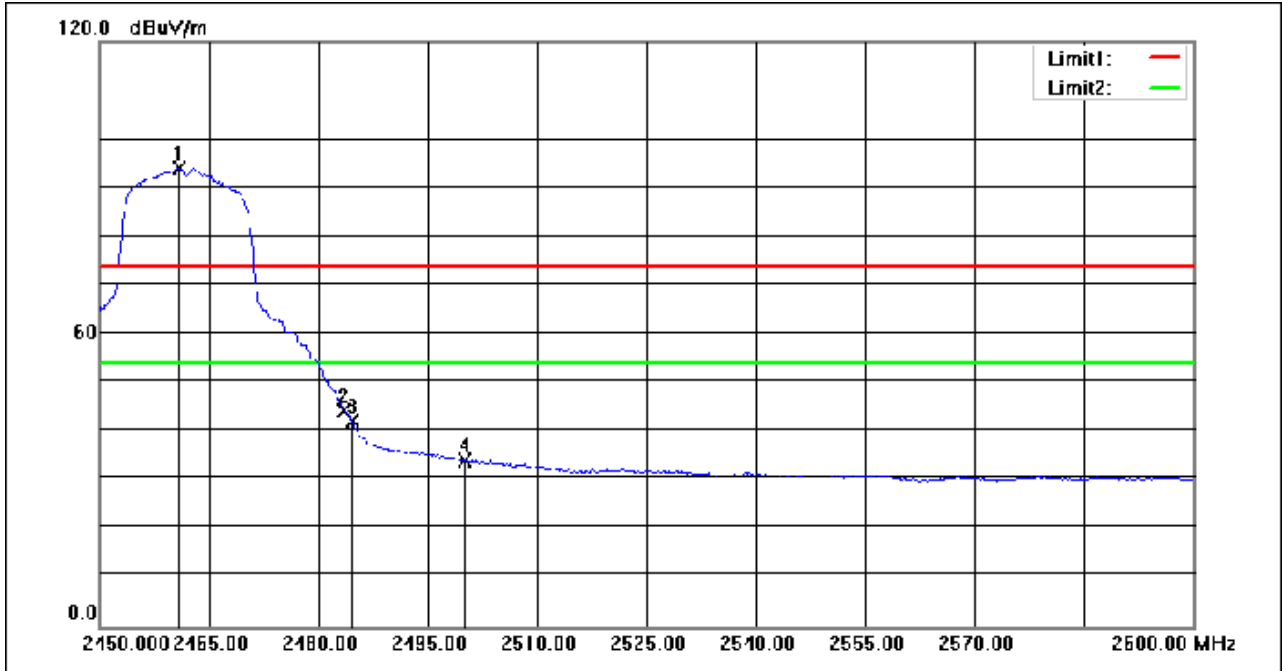


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



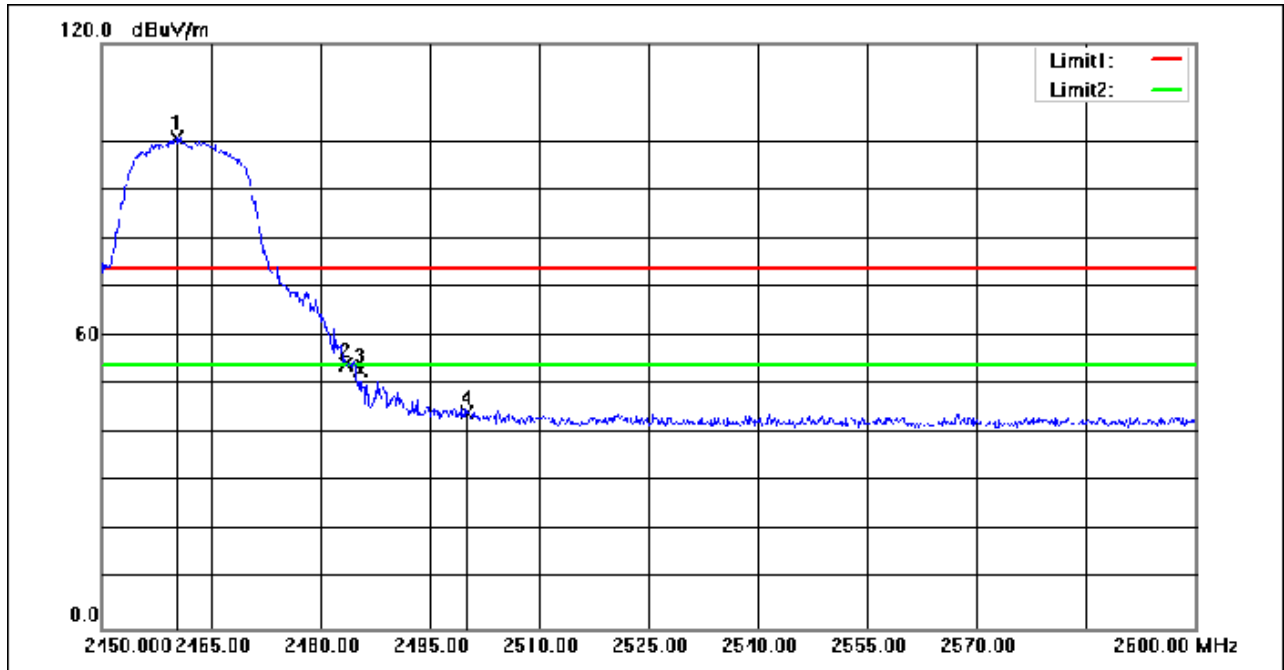
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.800	112.55	-18.38	94.17	54.00	40.17	AVG
2	2483.500	62.50	-18.13	44.37	54.00	-9.63	AVG
3	2484.650	60.13	-18.12	42.01	54.00	-11.99	AVG
4	2500.000	51.98	-17.95	34.03	54.00	-19.97	AVG



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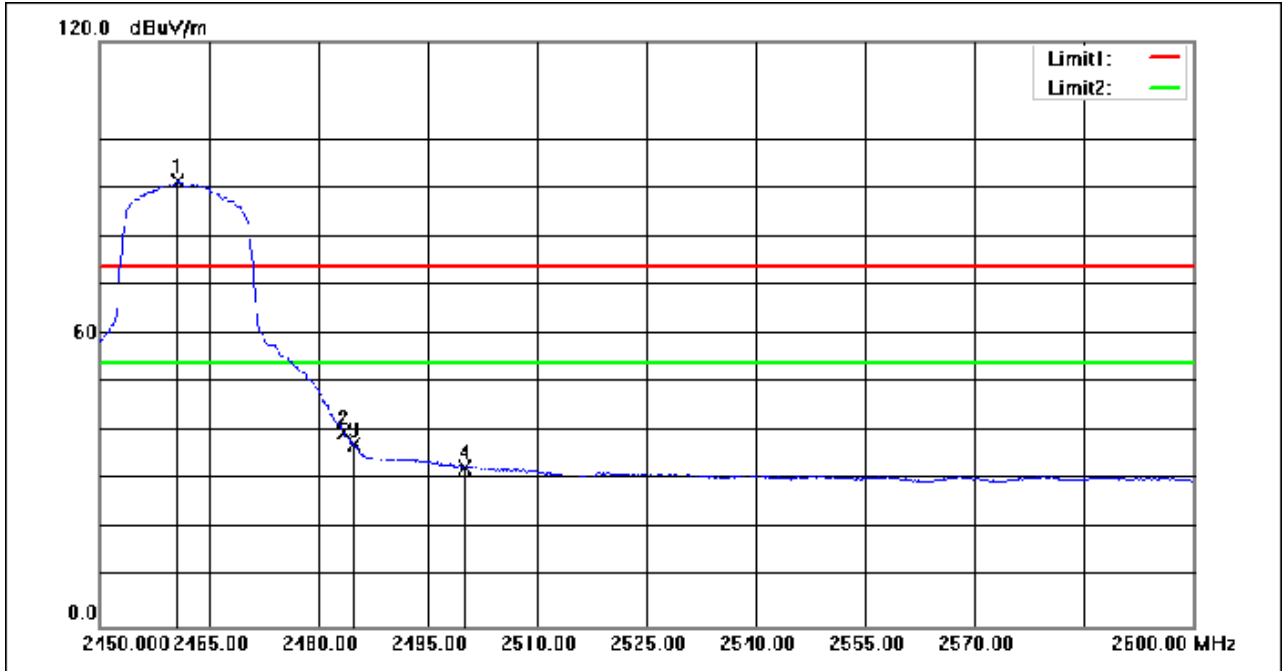
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.200	118.92	-18.39	100.53	74.00	26.53	peak
2	2483.500	72.28	-18.13	54.15	74.00	-19.85	peak
3	2485.550	70.94	-18.11	52.83	74.00	-21.17	peak
4	2500.000	62.20	-17.95	44.25	74.00	-29.75	peak



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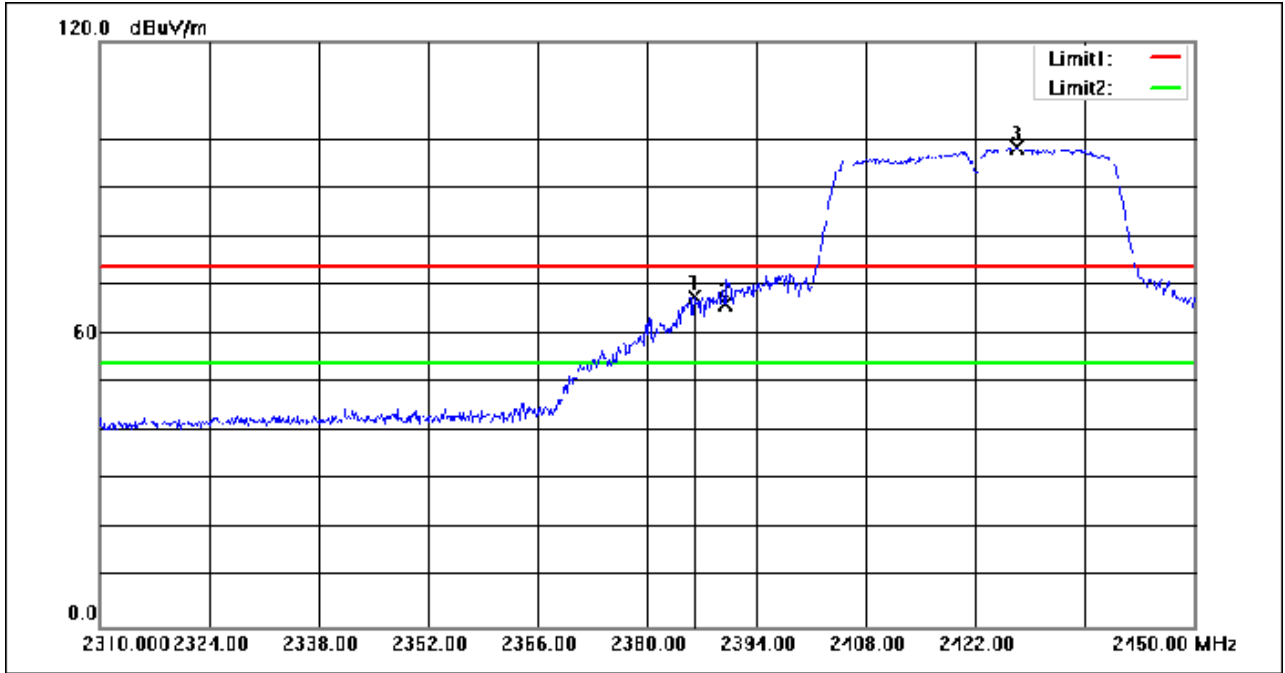
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.650	109.73	-18.38	91.35	54.00	37.35	AVG
2	2483.500	57.90	-18.13	39.77	54.00	-14.23	AVG
3	2484.950	55.47	-18.12	37.35	54.00	-16.65	AVG
4	2500.000	50.55	-17.95	32.60	54.00	-21.40	AVG



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.020	86.51	-18.71	67.80	74.00	-6.20	peak
2	2390.000	84.78	-18.67	66.11	74.00	-7.89	peak
3	2427.320	116.87	-18.55	98.32	74.00	24.32	peak

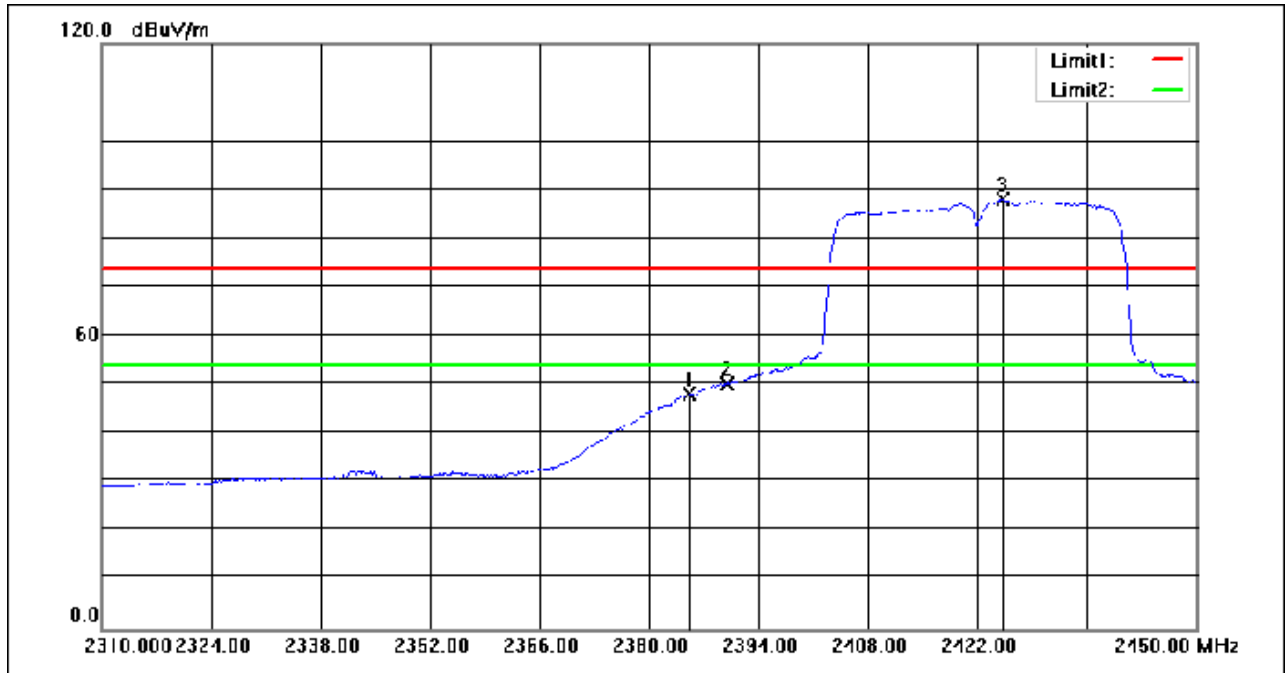


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



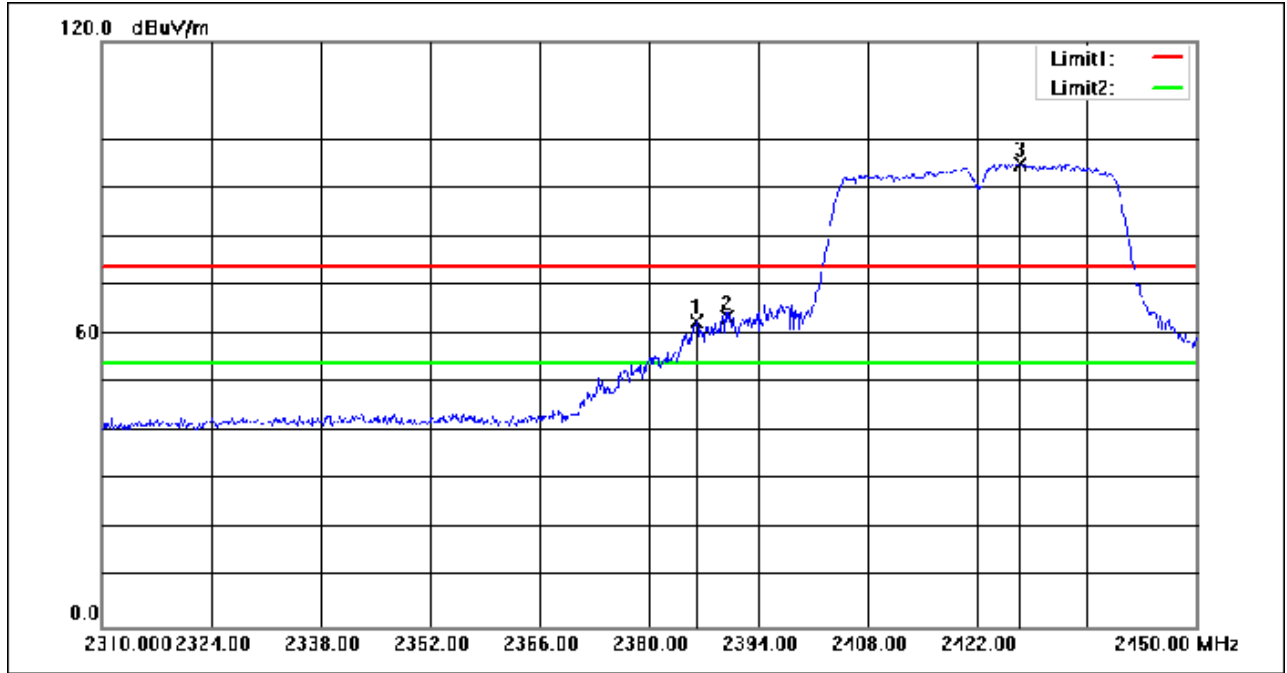
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.040	66.85	-18.71	48.14	54.00	-5.86	AVG
2	2390.000	69.04	-18.67	50.37	54.00	-3.63	AVG
3	2425.220	106.47	-18.55	87.92	54.00	33.92	AVG



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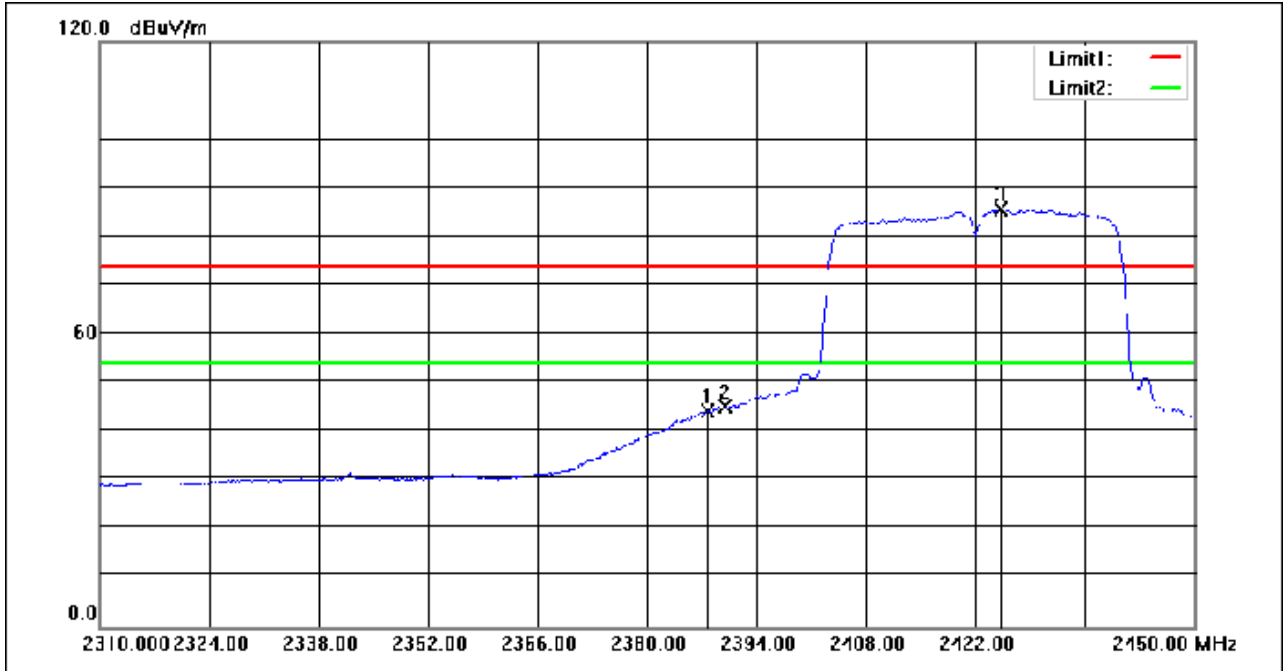
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.020	81.20	-18.71	62.49	74.00	-11.51	peak
2	2390.000	82.19	-18.67	63.52	74.00	-10.48	peak
3	2427.460	113.57	-18.55	95.02	74.00	21.02	peak



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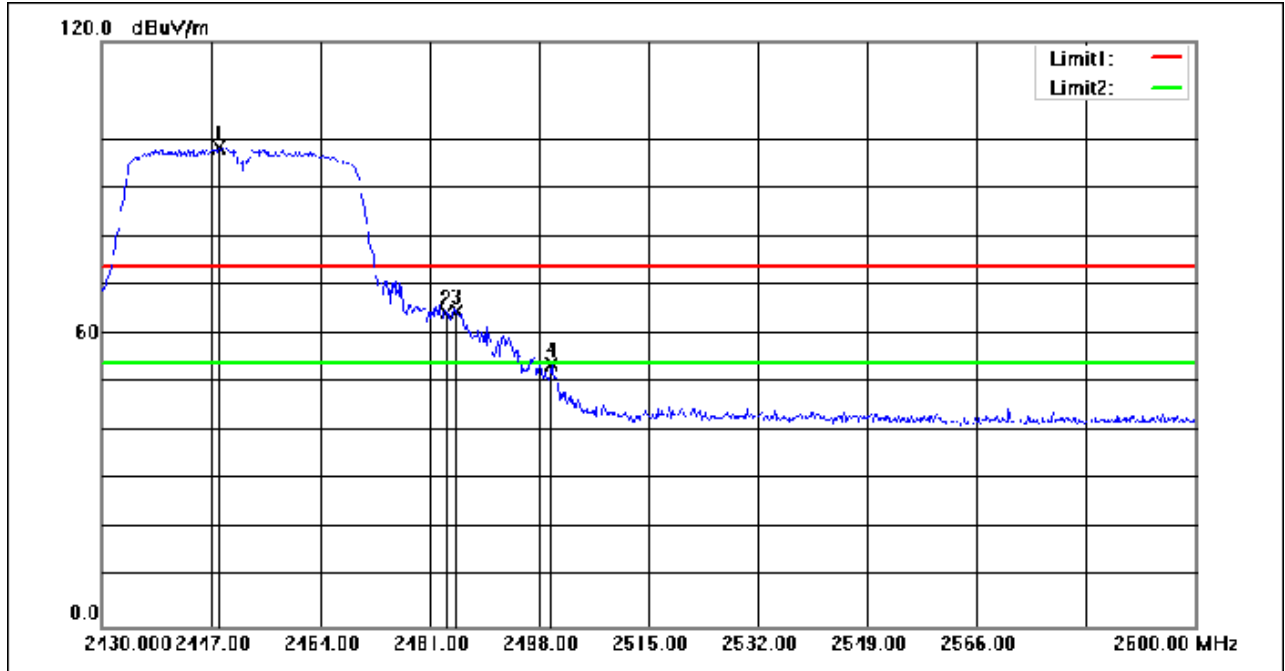
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.700	63.01	-18.69	44.32	54.00	-9.68	AVG
2	2390.000	63.87	-18.67	45.20	54.00	-8.80	AVG
3	2425.220	104.25	-18.55	85.70	54.00	31.70	AVG



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2448.190	116.75	-18.50	98.25	74.00	24.25	peak
2	2483.500	82.35	-18.13	64.22	74.00	-9.78	peak
3	2485.250	82.86	-18.11	64.75	74.00	-9.25	peak
4	2500.000	71.81	-17.95	53.86	74.00	-20.14	peak

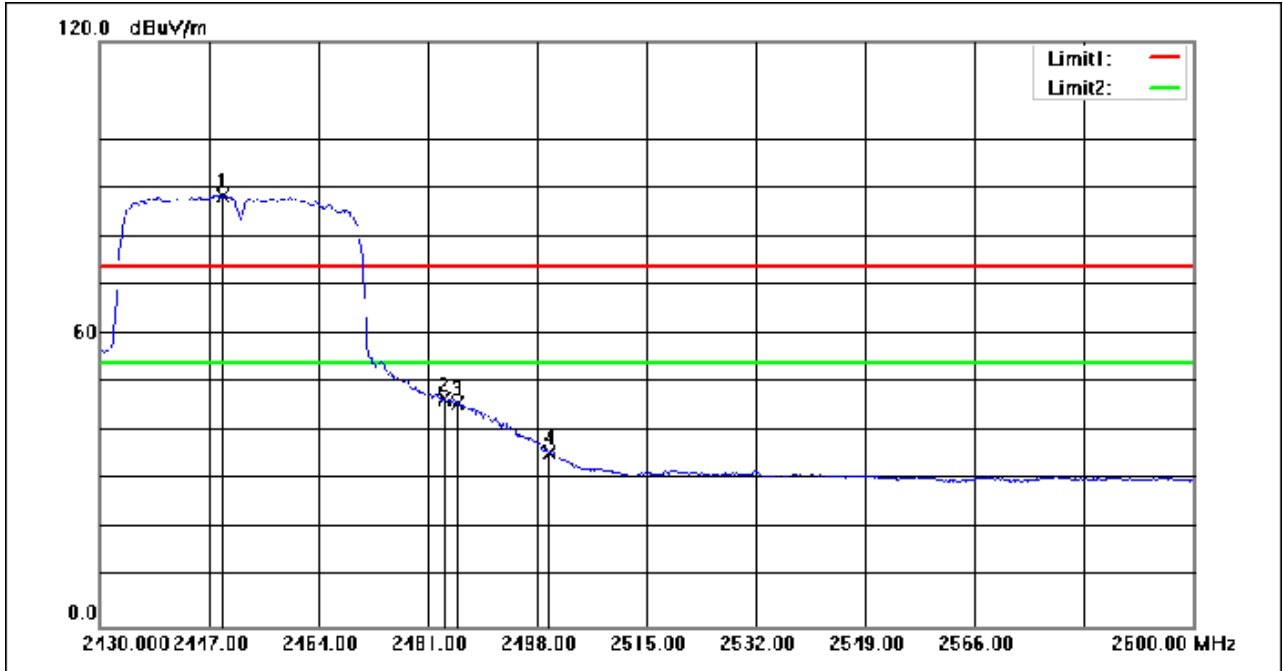


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



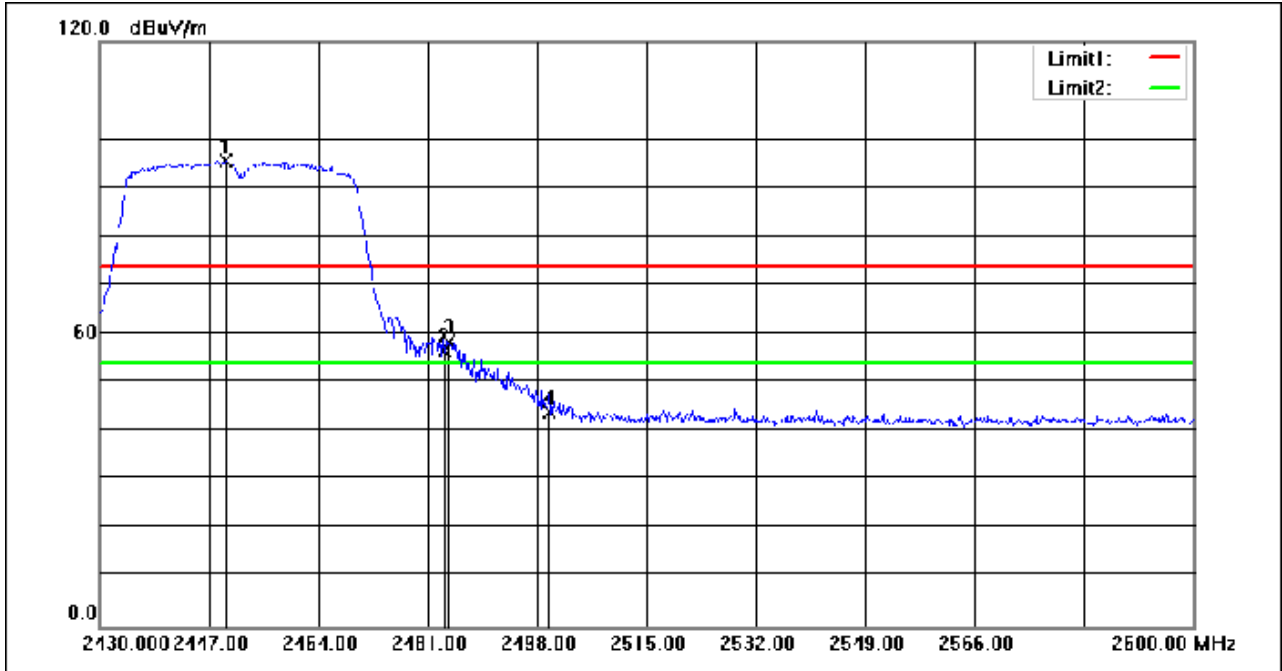
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2449.210	106.92	-18.50	88.42	54.00	34.42	AVG
2	2483.500	64.86	-18.13	46.73	54.00	-7.27	AVG
3	2485.590	63.95	-18.11	45.84	54.00	-8.16	AVG
4	2500.000	53.62	-17.95	35.67	54.00	-18.33	AVG



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



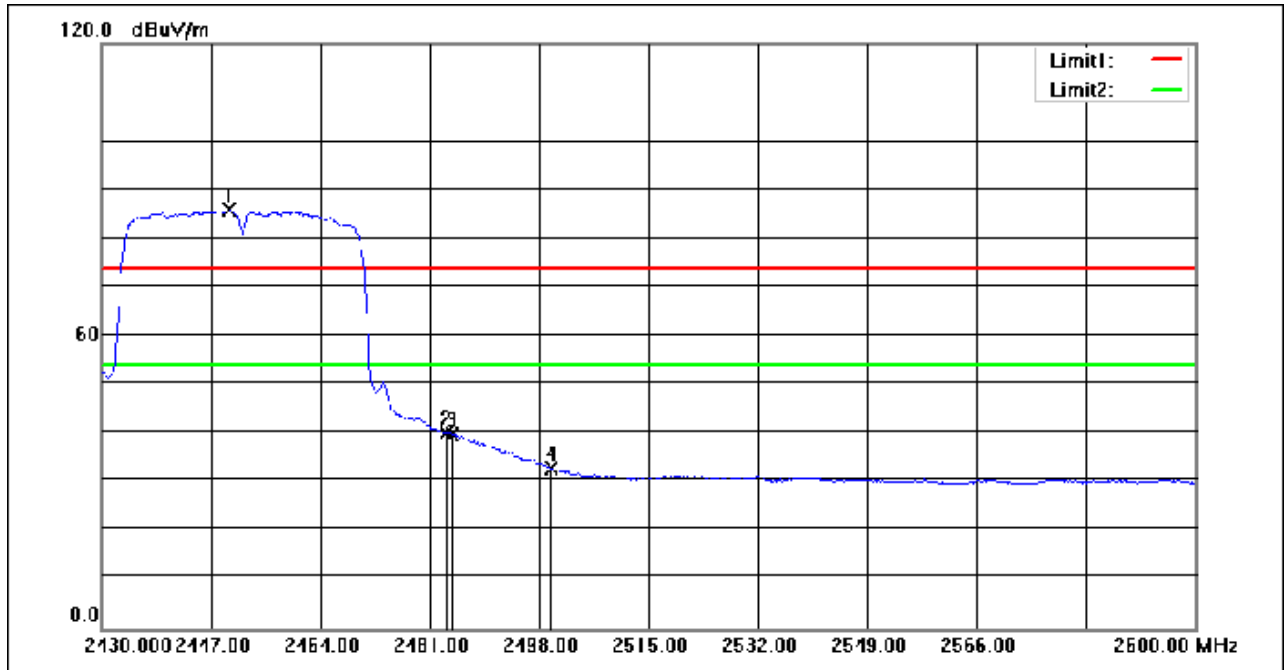
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2449.550	113.96	-18.50	95.46	74.00	21.46	peak
2	2483.500	74.64	-18.13	56.51	74.00	-17.49	peak
3	2484.230	76.41	-18.13	58.28	74.00	-15.72	peak
4	2500.000	61.92	-17.95	43.97	74.00	-30.03	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2449.890	104.36	-18.50	85.86	54.00	31.86	AVG
2	2483.500	58.22	-18.13	40.09	54.00	-13.91	AVG
3	2484.570	57.95	-18.12	39.83	54.00	-14.17	AVG
4	2500.000	50.75	-17.95	32.80	54.00	-21.20	AVG



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**7.8 Radiated Spurious Emissions Below 1GHz**

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

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

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

**7.8.1 E.U.T. Operation**

Operating Environment:

Temperature: 15.1 °C Humidity: 40.6 % RH Atmospheric Pressure: 1010 mbar

**7.8.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

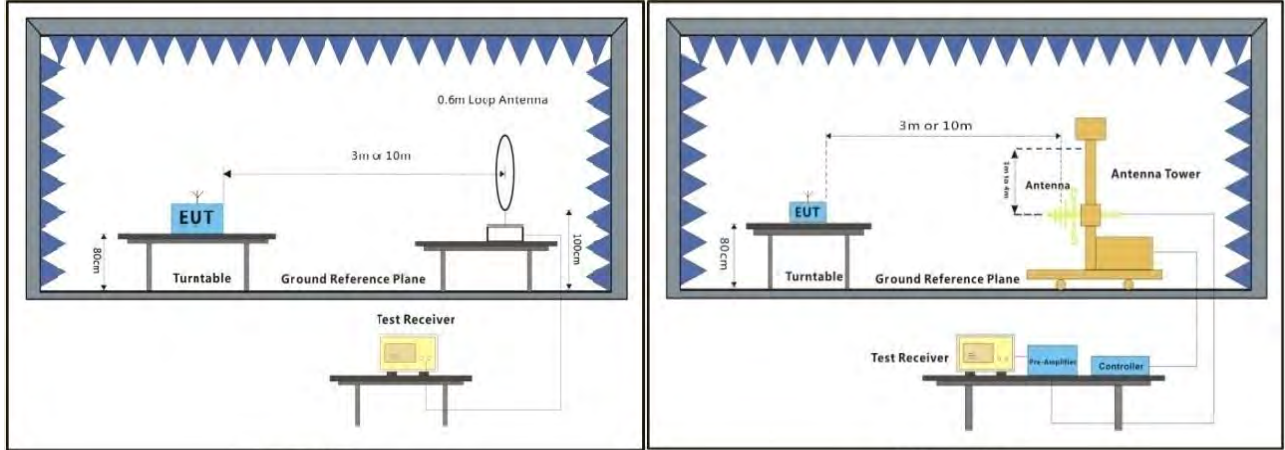


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**7.8.3 Test Setup Diagram**



Below 30MHz

30MHz-1GHz



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

Remark:

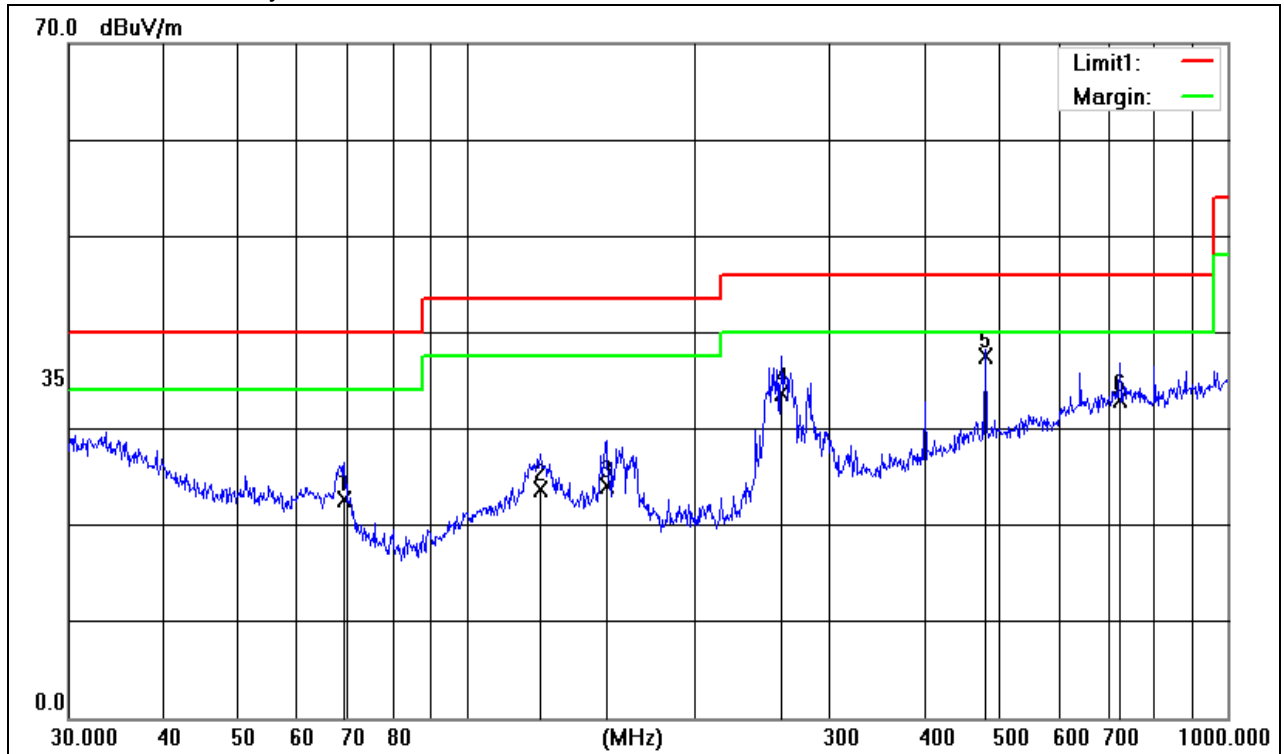
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 4: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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Test Mode: 00; Polarity: Horizontal



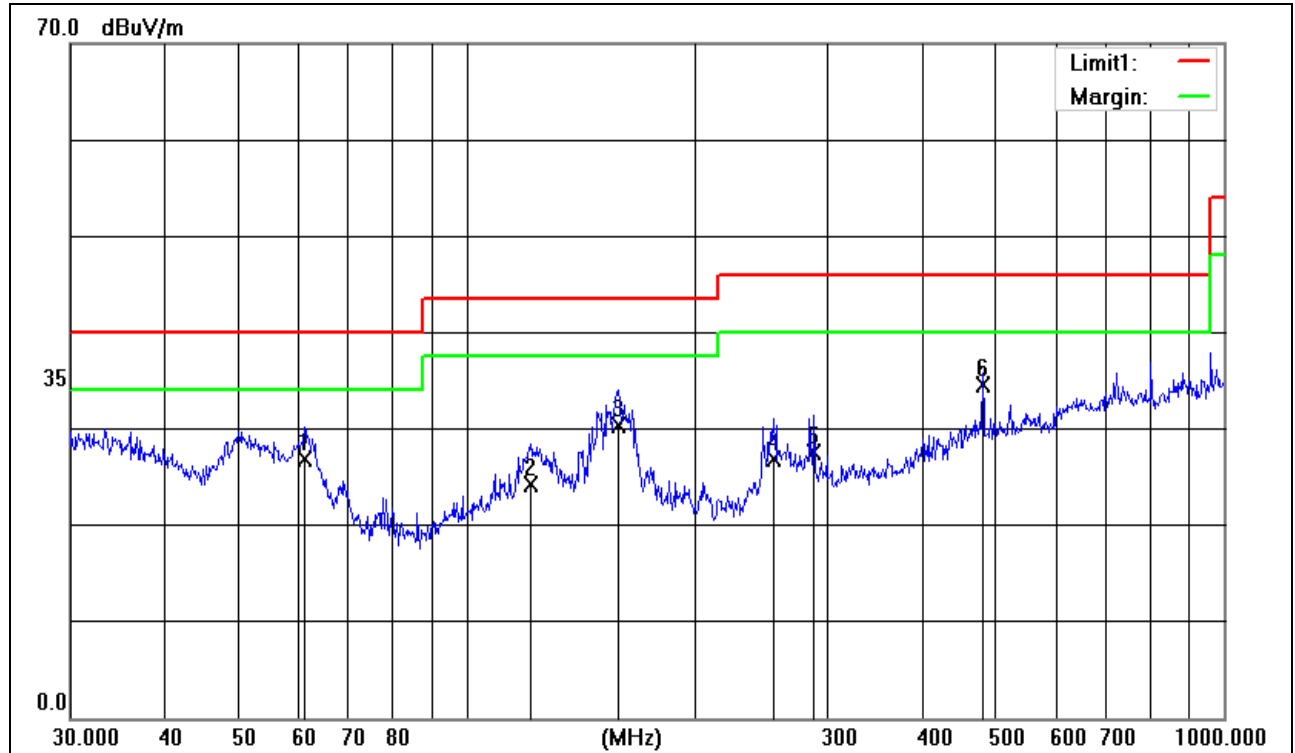
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	69.1141	7.06	15.63	22.69	40.00	-17.31	100	61	QP
2	125.0066	4.29	19.46	23.75	43.50	-19.75	100	32	QP
3	152.6641	6.40	17.74	24.14	43.50	-19.36	100	98	QP
4	259.2338	12.88	20.81	33.69	46.00	-12.31	200	66	QP
5	480.5276	12.26	25.20	37.46	46.00	-8.54	200	178	QP
6	721.7259	4.97	27.97	32.94	46.00	-13.06	200	152	QP



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Test Mode: 00; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	61.1316	12.12	14.73	26.85	40.00	-13.15	200	320	QP
2	121.5486	4.76	19.40	24.16	43.50	-19.34	200	98	QP
3	158.6677	12.93	17.51	30.44	43.50	-13.06	100	41	QP
4	254.7284	6.68	20.18	26.86	46.00	-19.14	100	220	QP
5	287.9904	7.16	20.45	27.61	46.00	-18.39	100	115	QP
6	480.5276	9.43	25.20	34.63	46.00	-11.37	200	65	QP



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**7.9 Radiated Spurious Emissions Above 1GHz**

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

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

Limit:

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

**7.9.1 E.U.T. Operation**

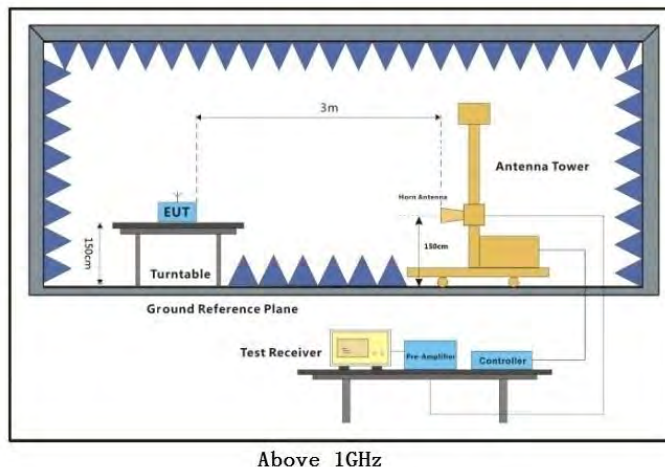
Operating Environment:

Temperature: 15.1 °C Humidity: 40.5 % RH Atmospheric Pressure: 1010 mbar

**7.9.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

**7.9.3 Test Setup Diagram**



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**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:

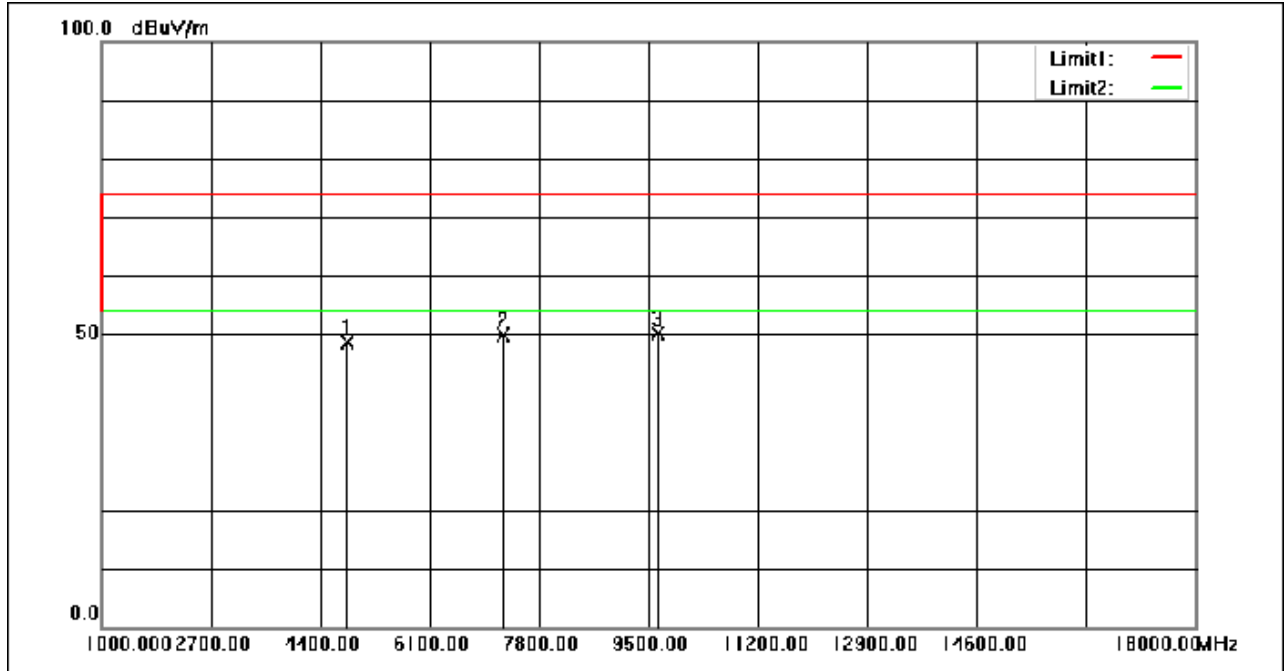
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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



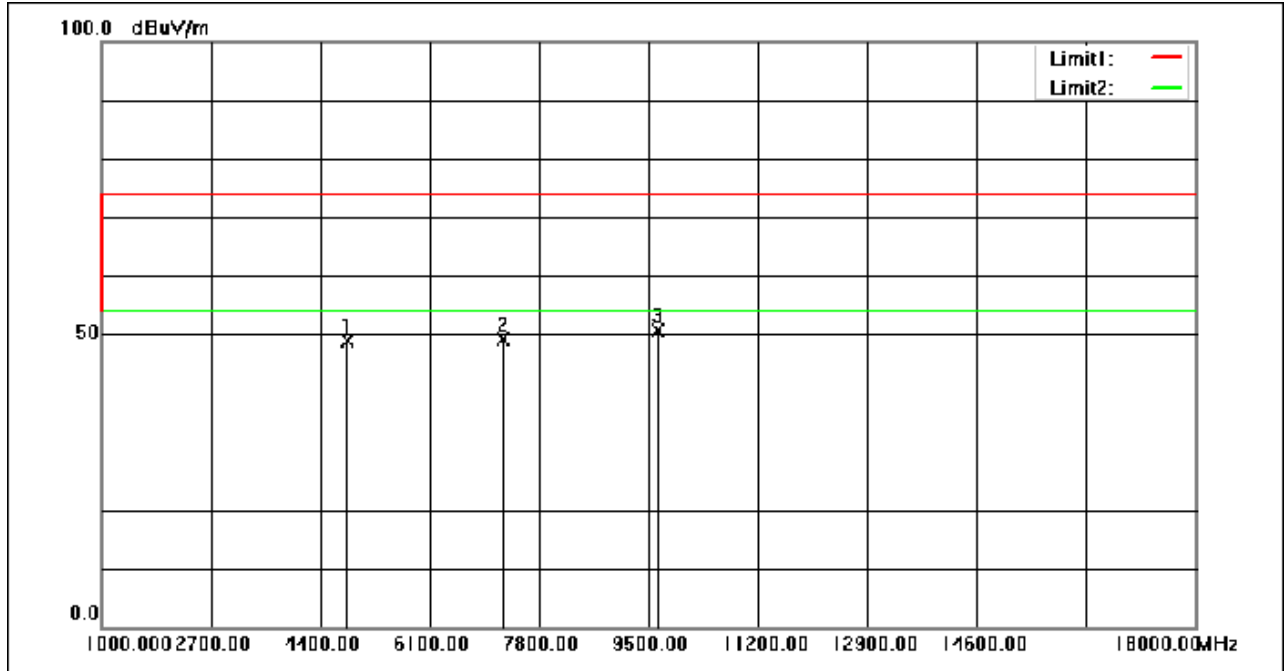
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.41	-8.78	48.63	74.00	-25.37	peak
2	7236.000	55.78	-5.86	49.92	74.00	-24.08	peak
3	9648.000	51.47	-1.31	50.16	74.00	-23.84	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.74	-8.78	48.96	74.00	-25.04	peak
2	7236.000	54.94	-5.86	49.08	74.00	-24.92	peak
3	9648.000	52.01	-1.31	50.70	74.00	-23.30	peak

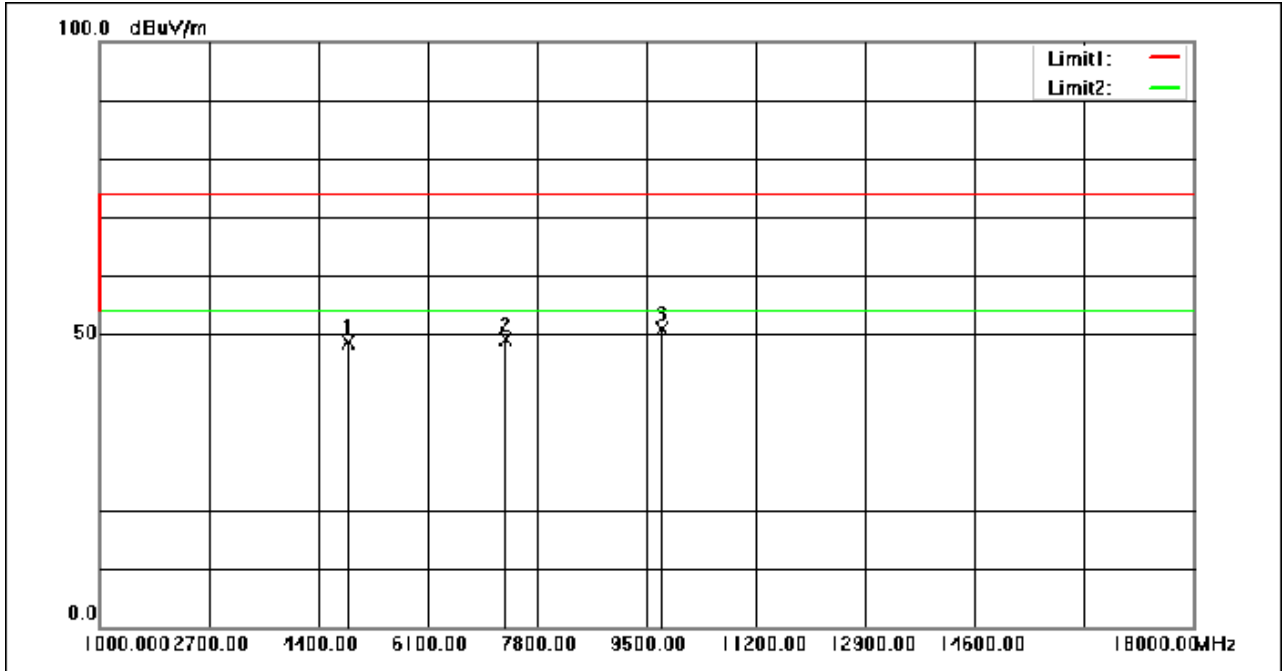


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



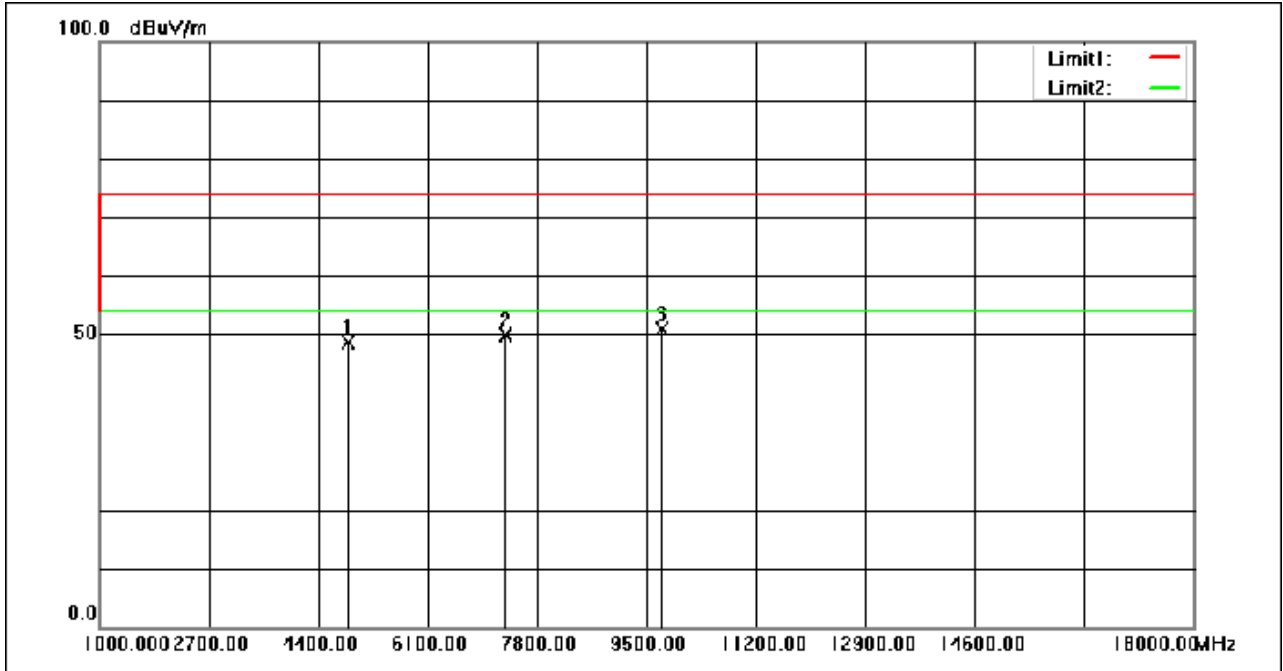
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.14	-8.61	48.53	74.00	-25.47	peak
2	7311.000	54.90	-5.78	49.12	74.00	-24.88	peak
3	9748.000	52.39	-1.43	50.96	74.00	-23.04	peak



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



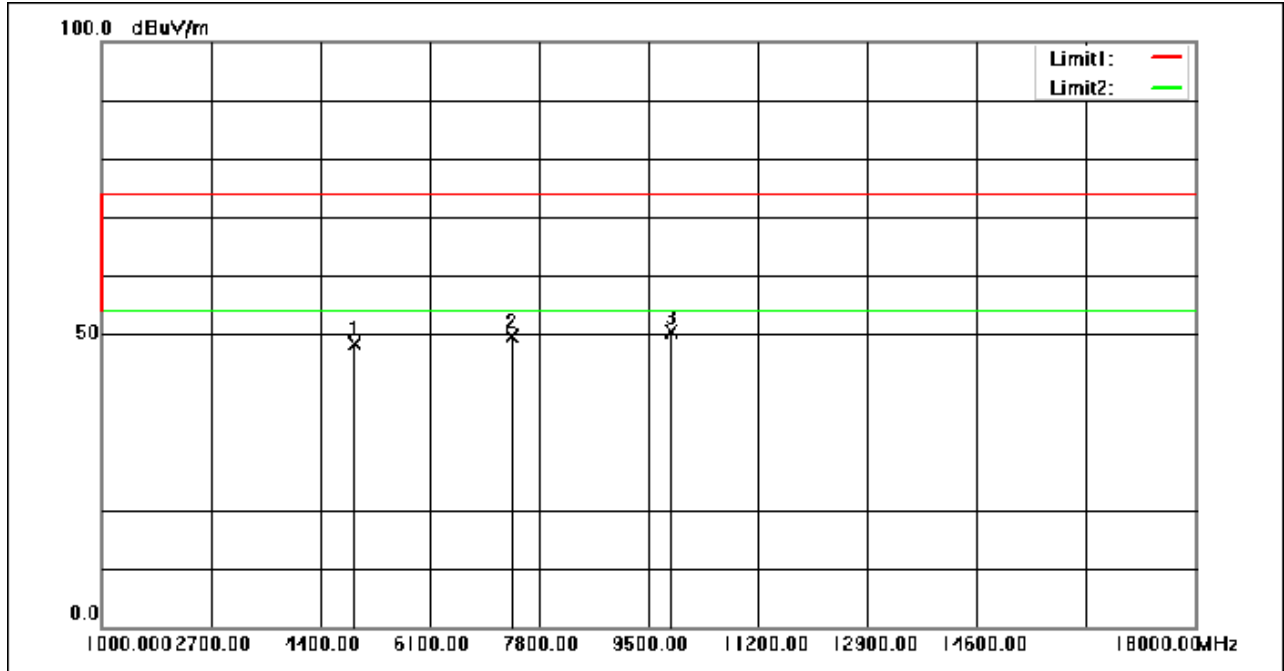
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.13	-8.61	48.52	74.00	-25.48	peak
2	7311.000	55.72	-5.78	49.94	74.00	-24.06	peak
3	9748.000	52.30	-1.43	50.87	74.00	-23.13	peak



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



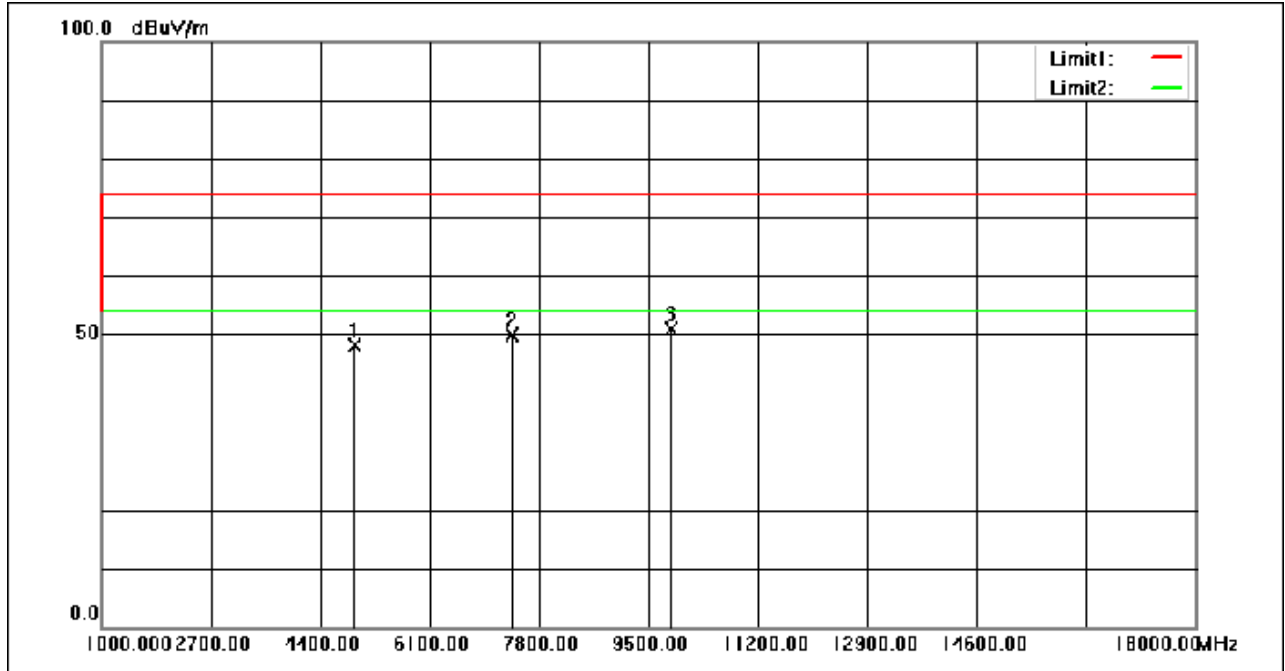
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	56.79	-8.44	48.35	74.00	-25.65	peak
2	7386.000	55.36	-5.69	49.67	74.00	-24.33	peak
3	9848.000	51.76	-1.27	50.49	74.00	-23.51	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	56.58	-8.44	48.14	74.00	-25.86	peak
2	7386.000	55.55	-5.69	49.86	74.00	-24.14	peak
3	9848.000	52.10	-1.27	50.83	74.00	-23.17	peak

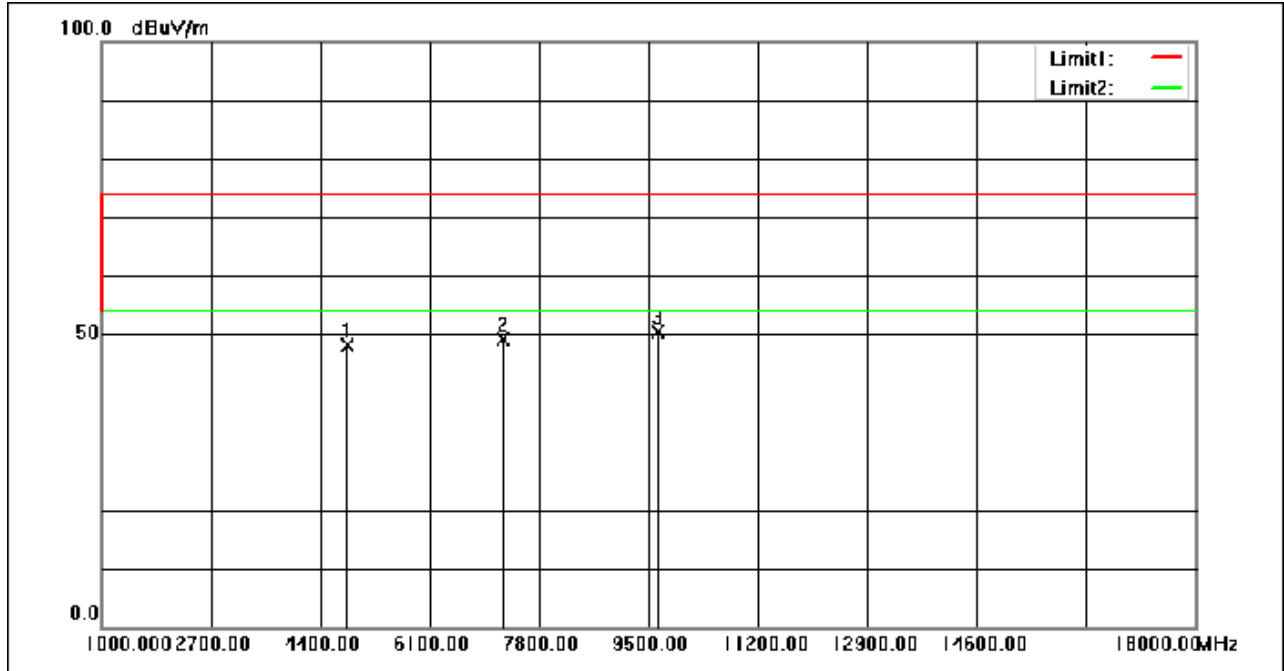


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



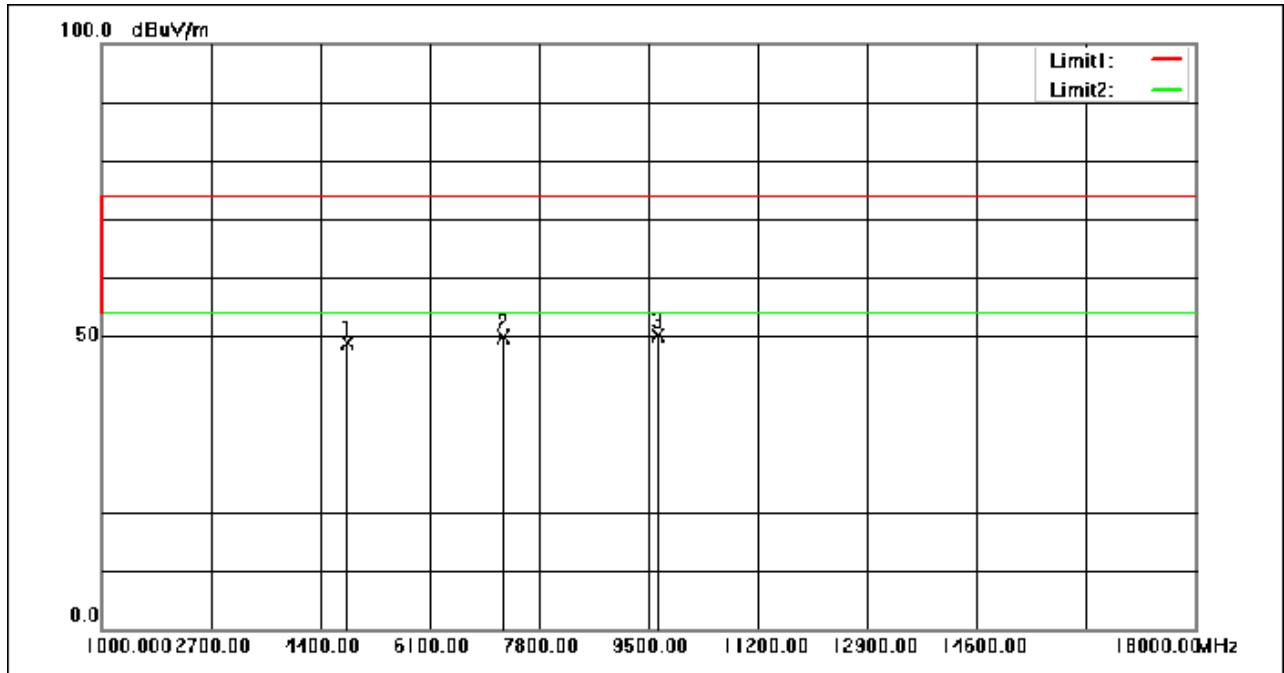
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.01	-8.78	48.23	74.00	-25.77	peak
2	7236.000	54.98	-5.86	49.12	74.00	-24.88	peak
3	9648.000	51.64	-1.31	50.33	74.00	-23.67	peak



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



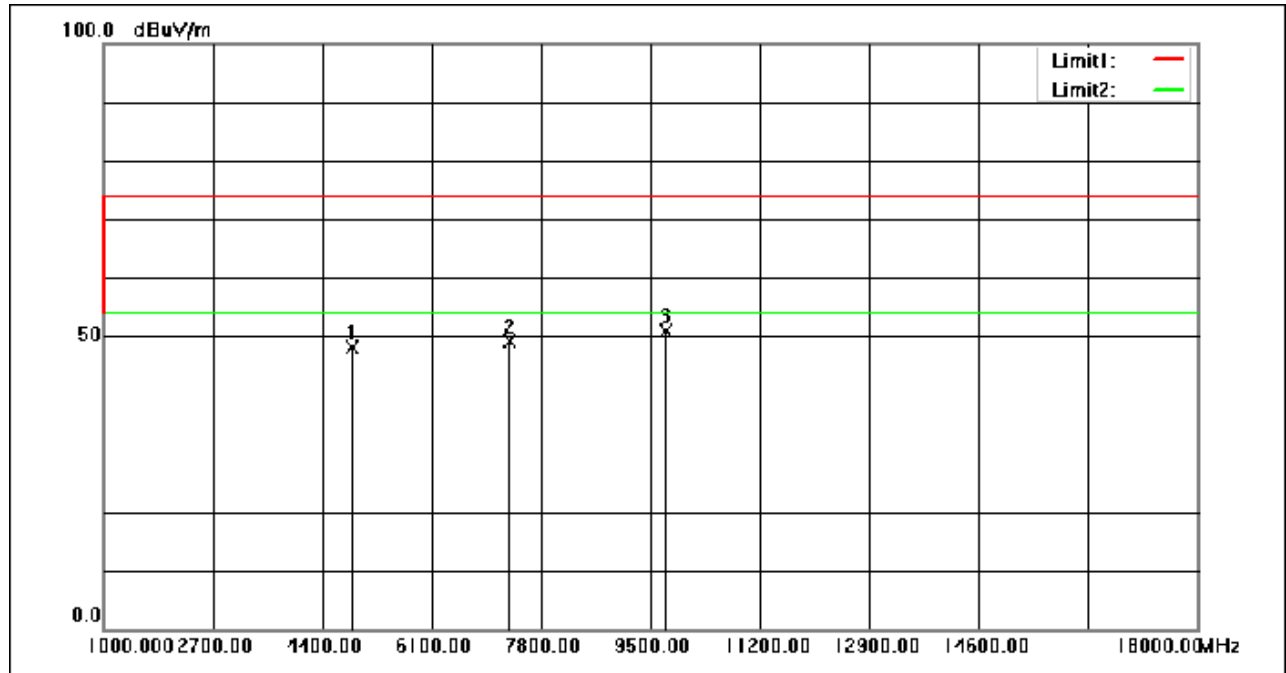
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.73	-8.78	48.95	74.00	-25.05	peak
2	7236.000	55.76	-5.86	49.90	74.00	-24.10	peak
3	9648.000	51.33	-1.31	50.02	74.00	-23.98	peak



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



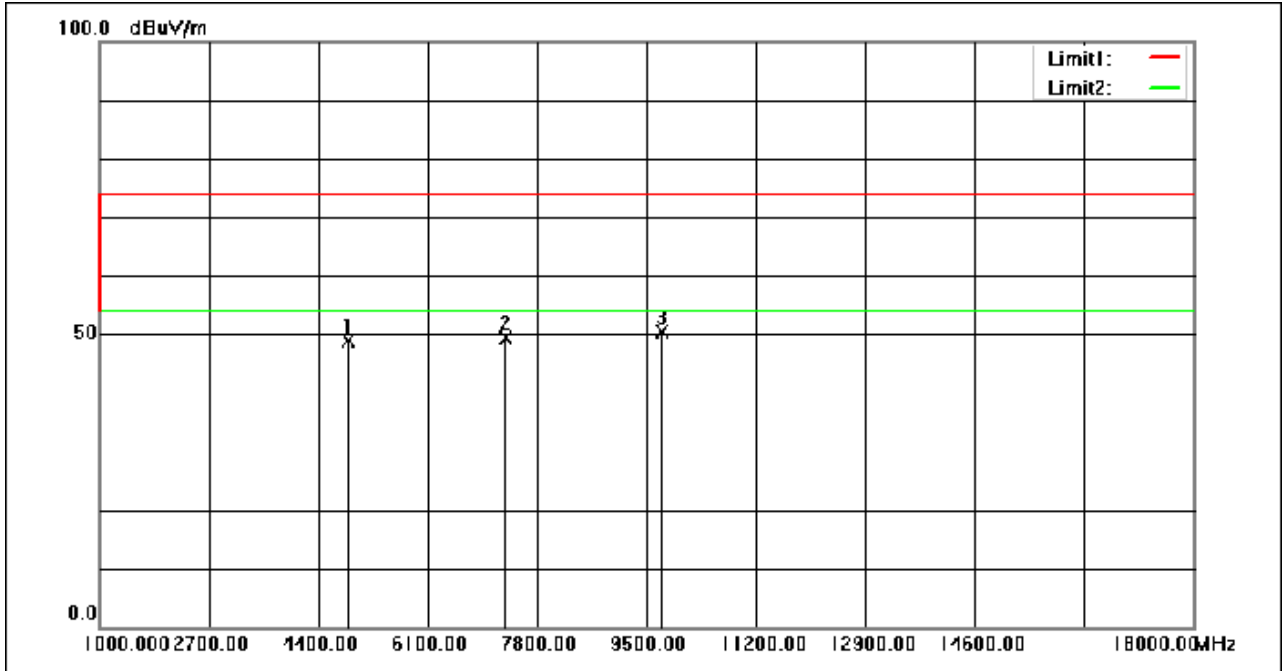
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	56.78	-8.61	48.17	74.00	-25.83	peak
2	7311.000	54.80	-5.78	49.02	74.00	-24.98	peak
3	9748.000	52.29	-1.43	50.86	74.00	-23.14	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.44	-8.61	48.83	74.00	-25.17	peak
2	7311.000	55.28	-5.78	49.50	74.00	-24.50	peak
3	9748.000	51.90	-1.43	50.47	74.00	-23.53	peak

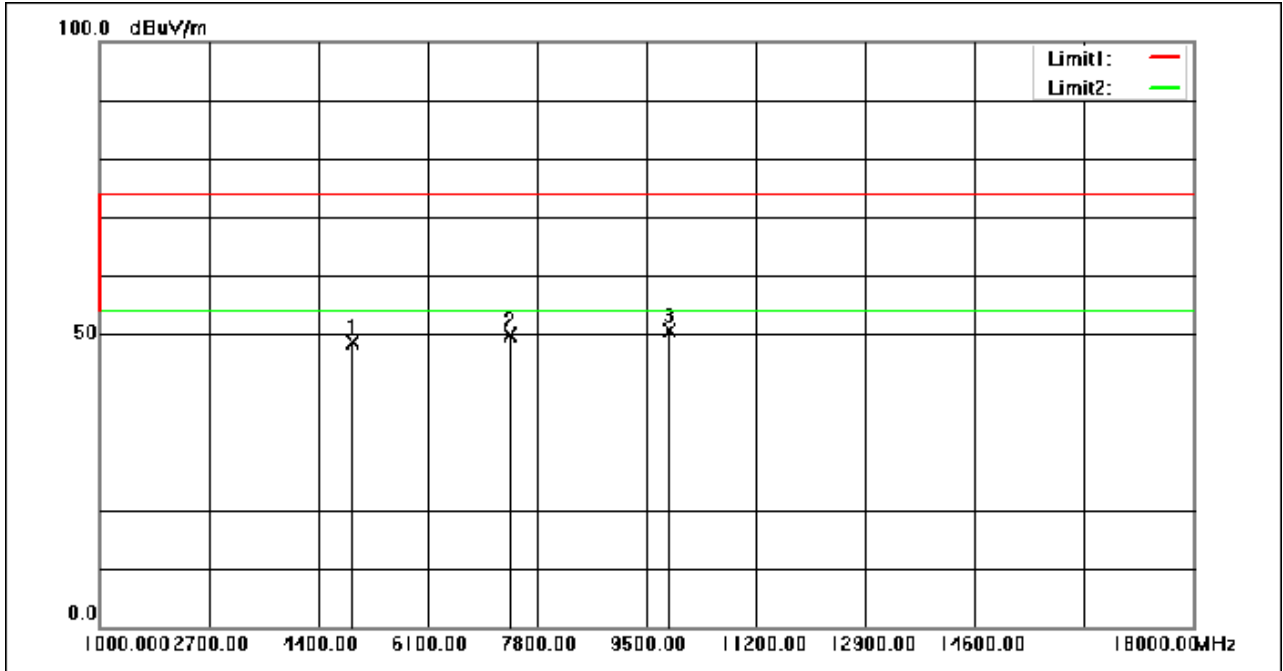


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



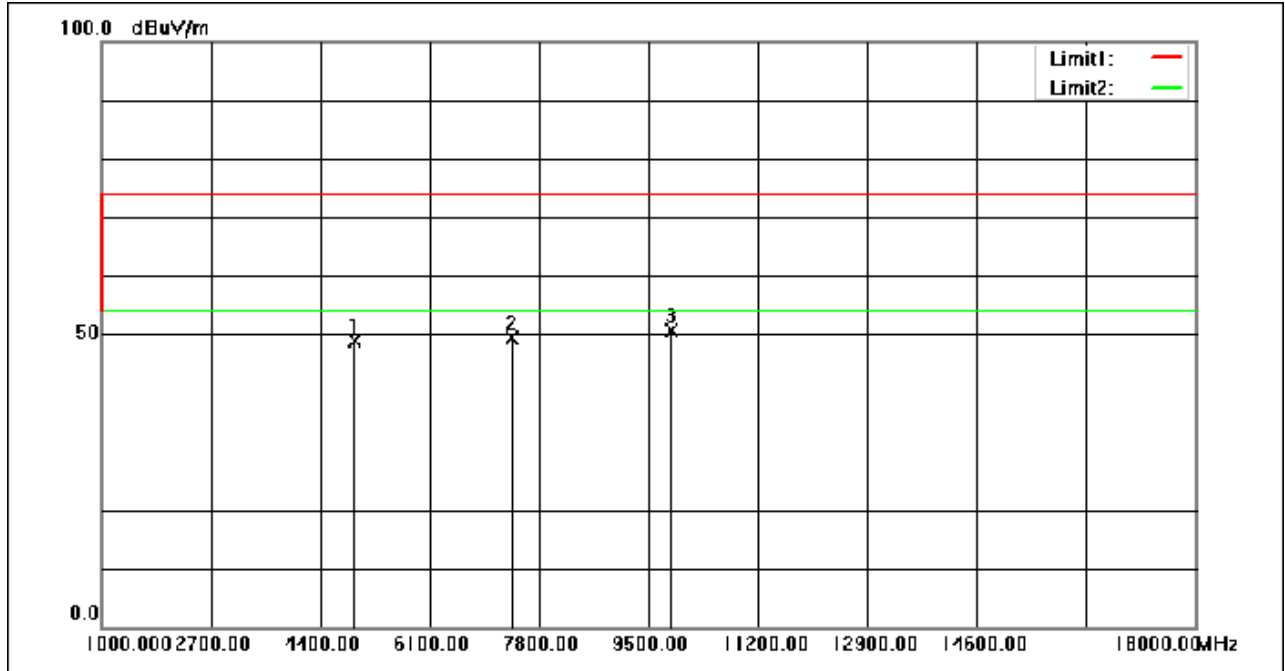
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	56.99	-8.44	48.55	74.00	-25.45	peak
2	7386.000	55.52	-5.69	49.83	74.00	-24.17	peak
3	9848.000	51.96	-1.27	50.69	74.00	-23.31	peak



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



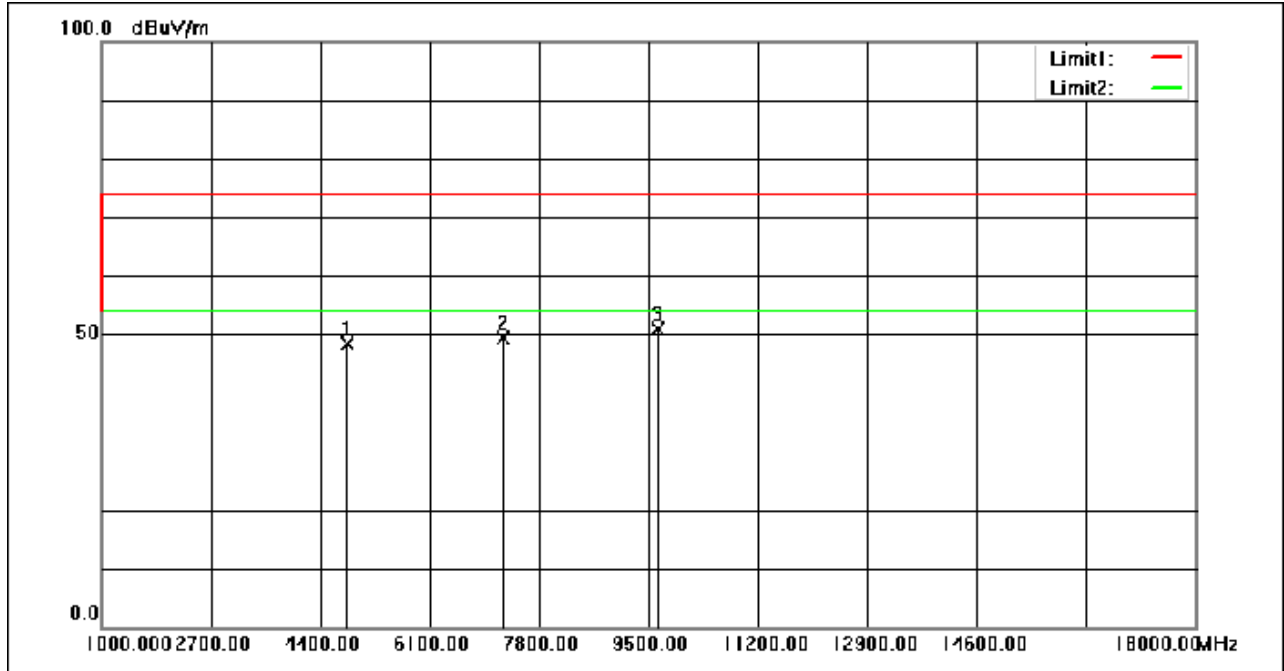
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	57.31	-8.44	48.87	74.00	-25.13	peak
2	7386.000	55.15	-5.69	49.46	74.00	-24.54	peak
3	9848.000	51.85	-1.27	50.58	74.00	-23.42	peak



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



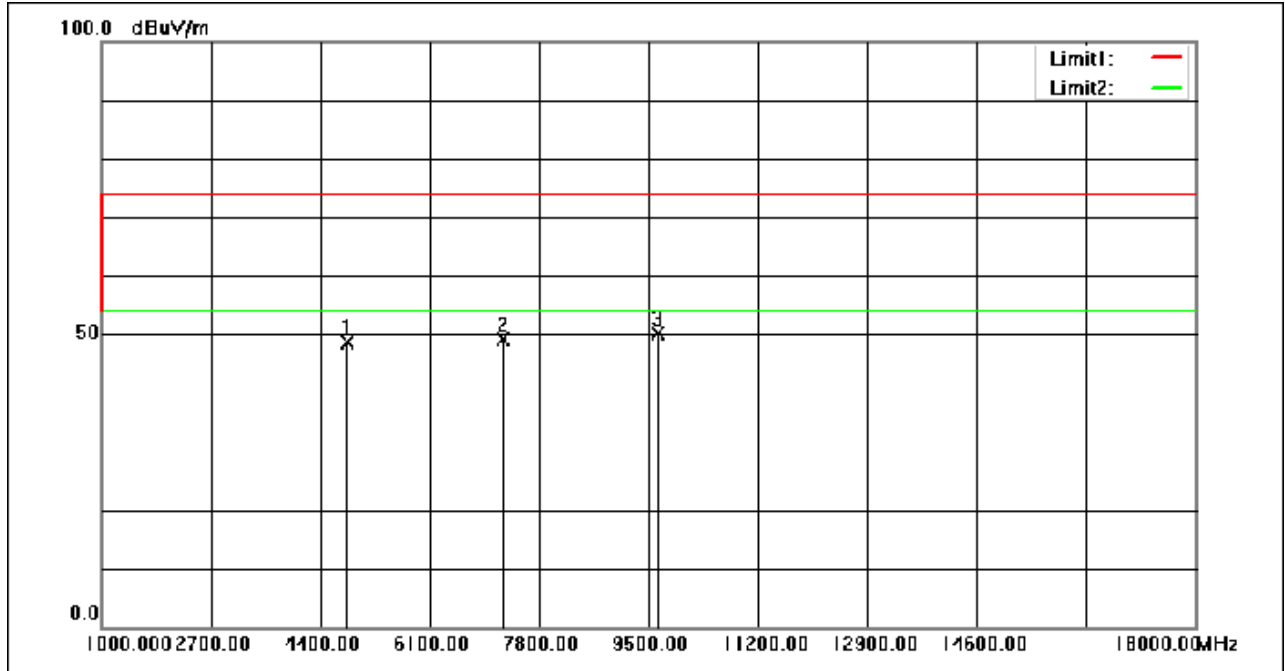
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.08	-8.78	48.30	74.00	-25.70	peak
2	7236.000	55.36	-5.86	49.50	74.00	-24.50	peak
3	9648.000	52.23	-1.31	50.92	74.00	-23.08	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.47	-8.78	48.69	74.00	-25.31	peak
2	7236.000	54.98	-5.86	49.12	74.00	-24.88	peak
3	9648.000	51.35	-1.31	50.04	74.00	-23.96	peak

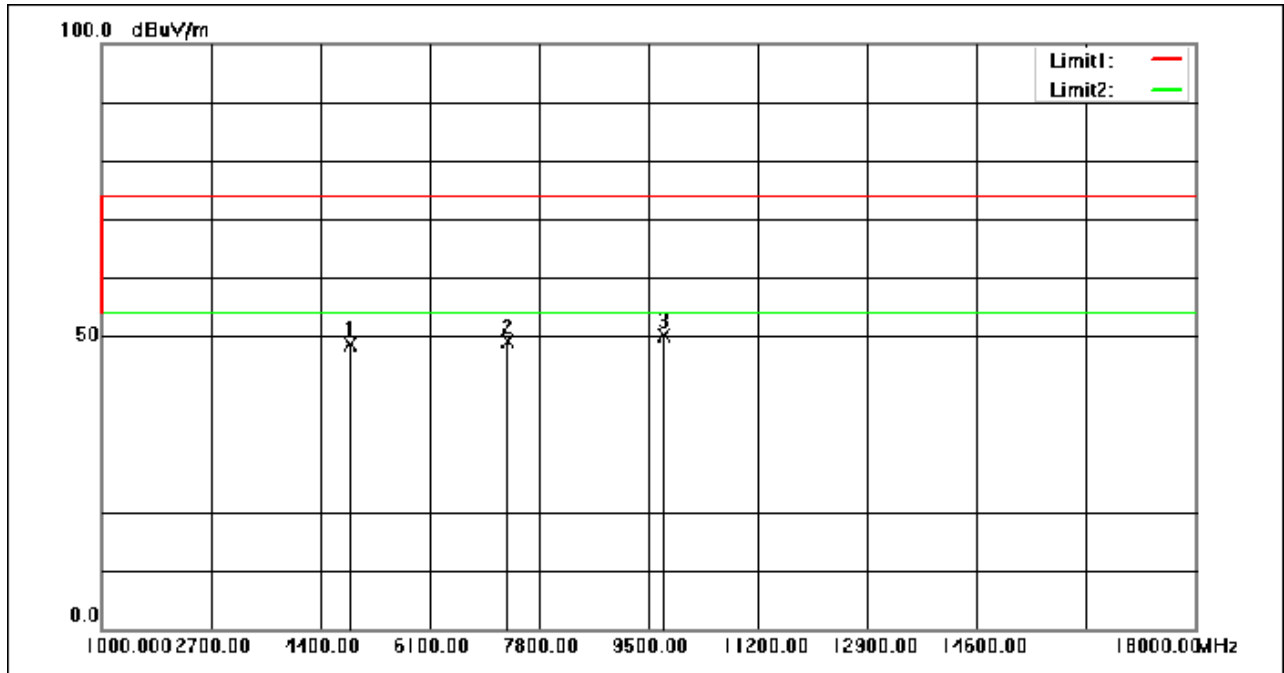


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



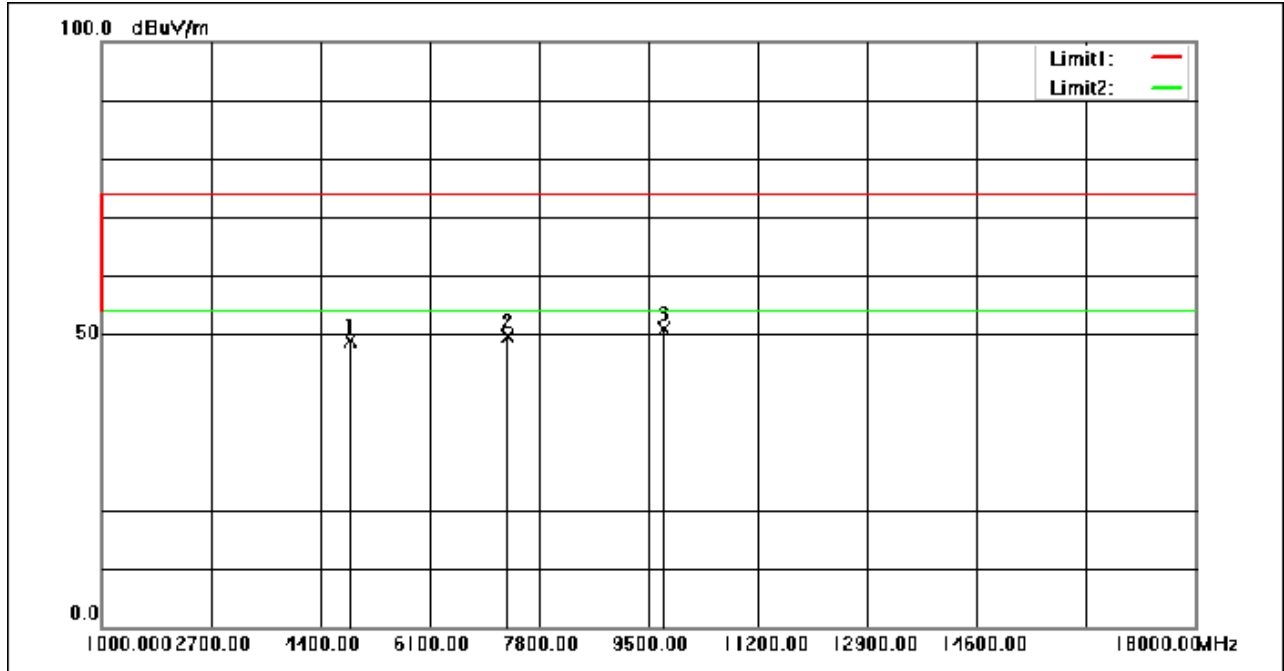
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.16	-8.61	48.55	74.00	-25.45	peak
2	7311.000	54.81	-5.78	49.03	74.00	-24.97	peak
3	9748.000	51.50	-1.43	50.07	74.00	-23.93	peak



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



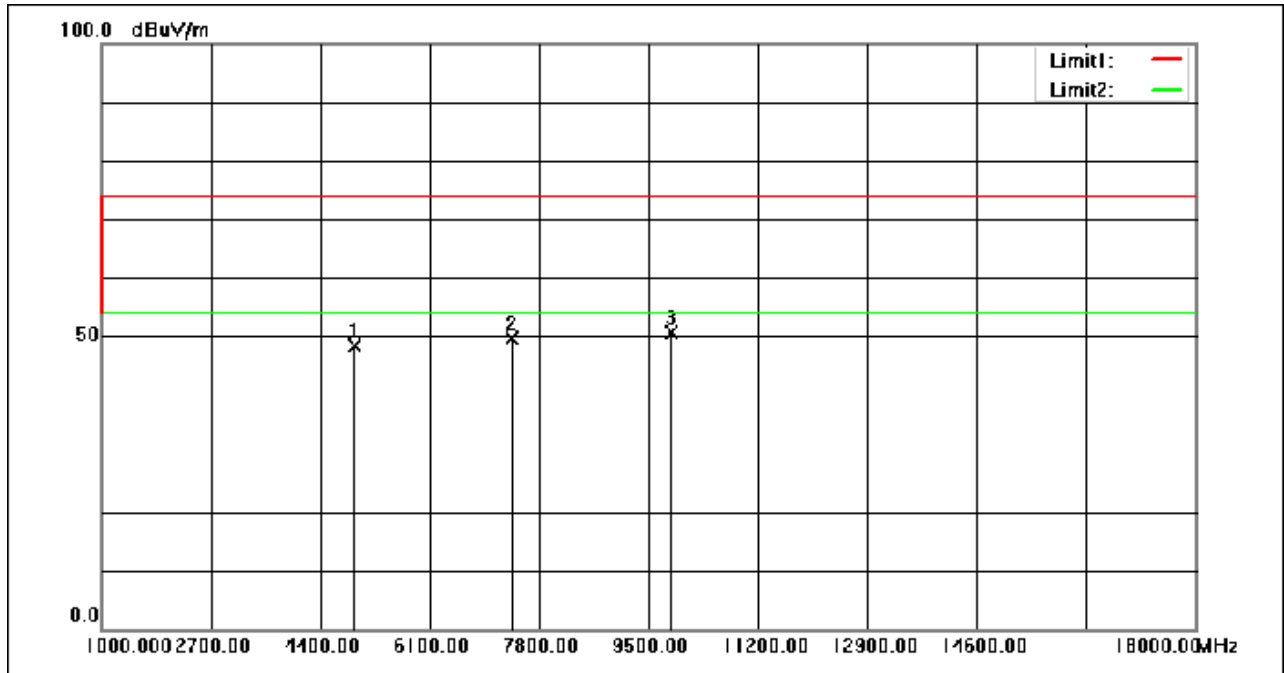
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.45	-8.61	48.84	74.00	-25.16	peak
2	7311.000	55.40	-5.78	49.62	74.00	-24.38	peak
3	9748.000	52.30	-1.43	50.87	74.00	-23.13	peak



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



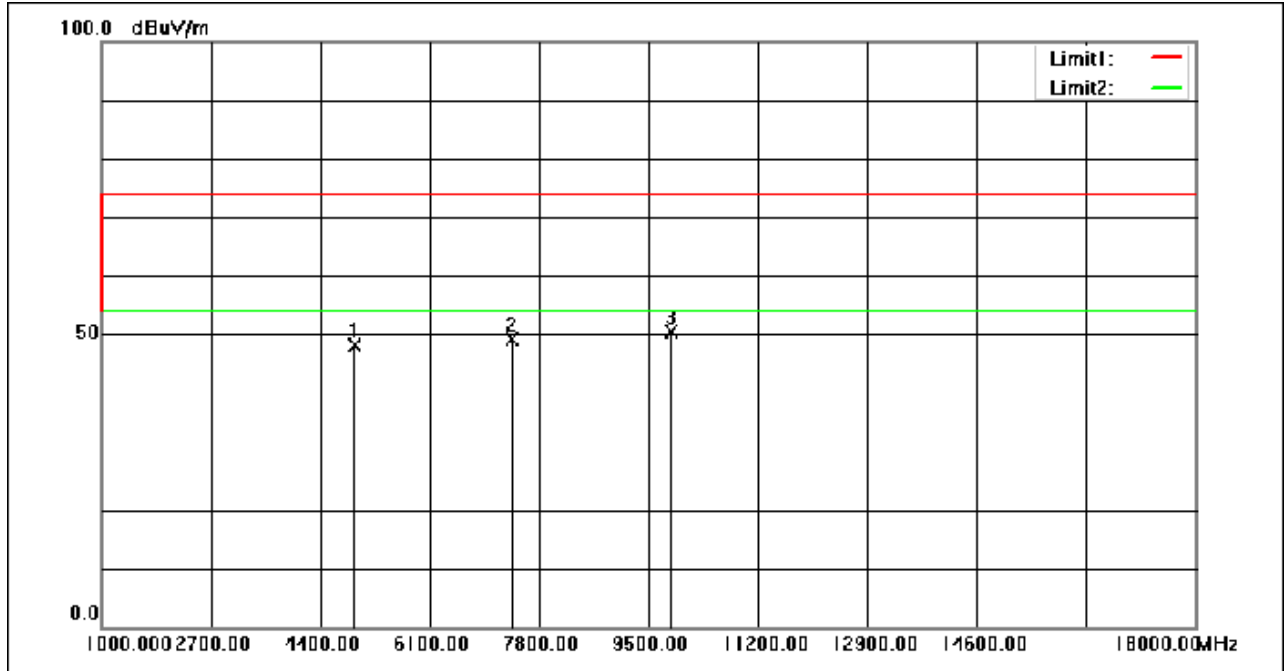
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	56.94	-8.44	48.50	74.00	-25.50	peak
2	7386.000	55.39	-5.69	49.70	74.00	-24.30	peak
3	9848.000	51.92	-1.27	50.65	74.00	-23.35	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	56.57	-8.44	48.13	74.00	-25.87	peak
2	7386.000	54.77	-5.69	49.08	74.00	-24.92	peak
3	9848.000	51.71	-1.27	50.44	74.00	-23.56	peak

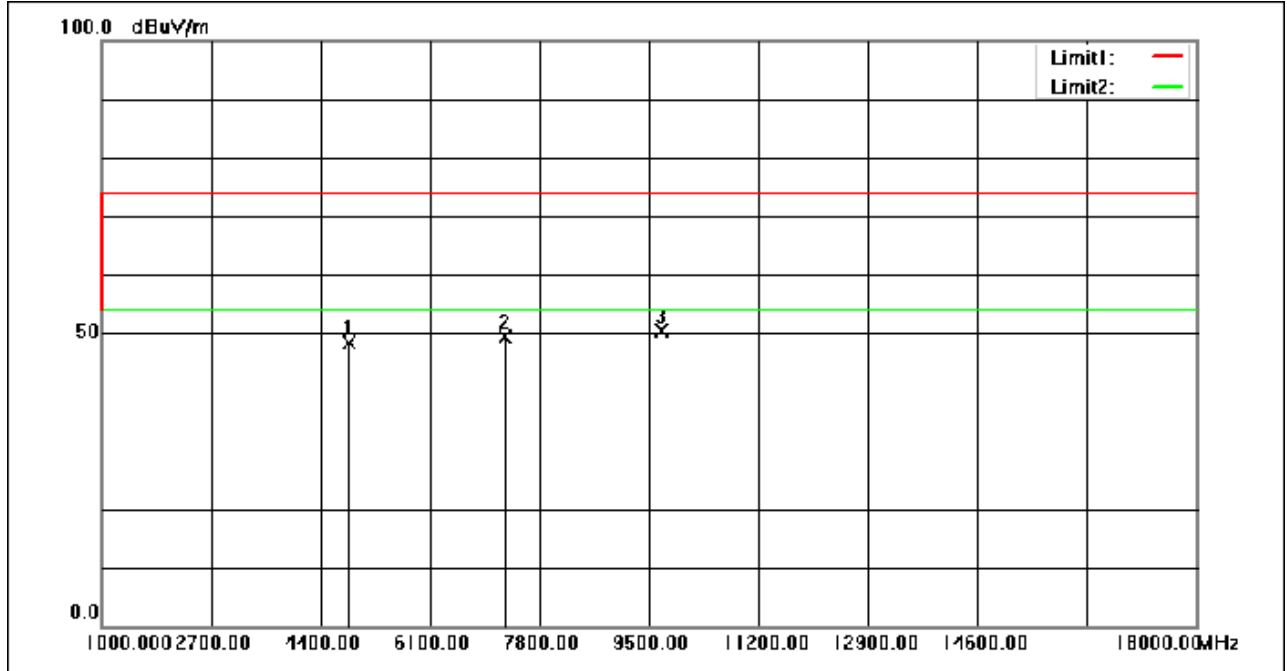


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



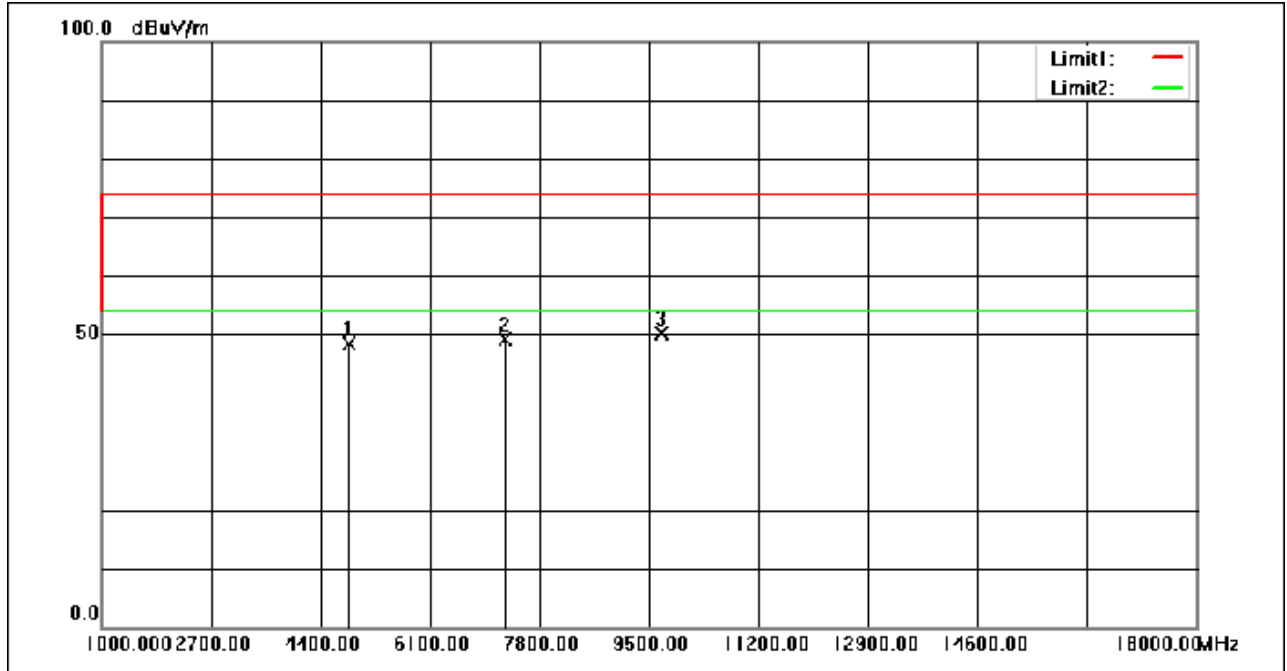
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	57.00	-8.71	48.29	74.00	-25.71	peak
2	7266.000	55.33	-5.83	49.50	74.00	-24.50	peak
3	9688.000	51.67	-1.36	50.31	74.00	-23.69	peak



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



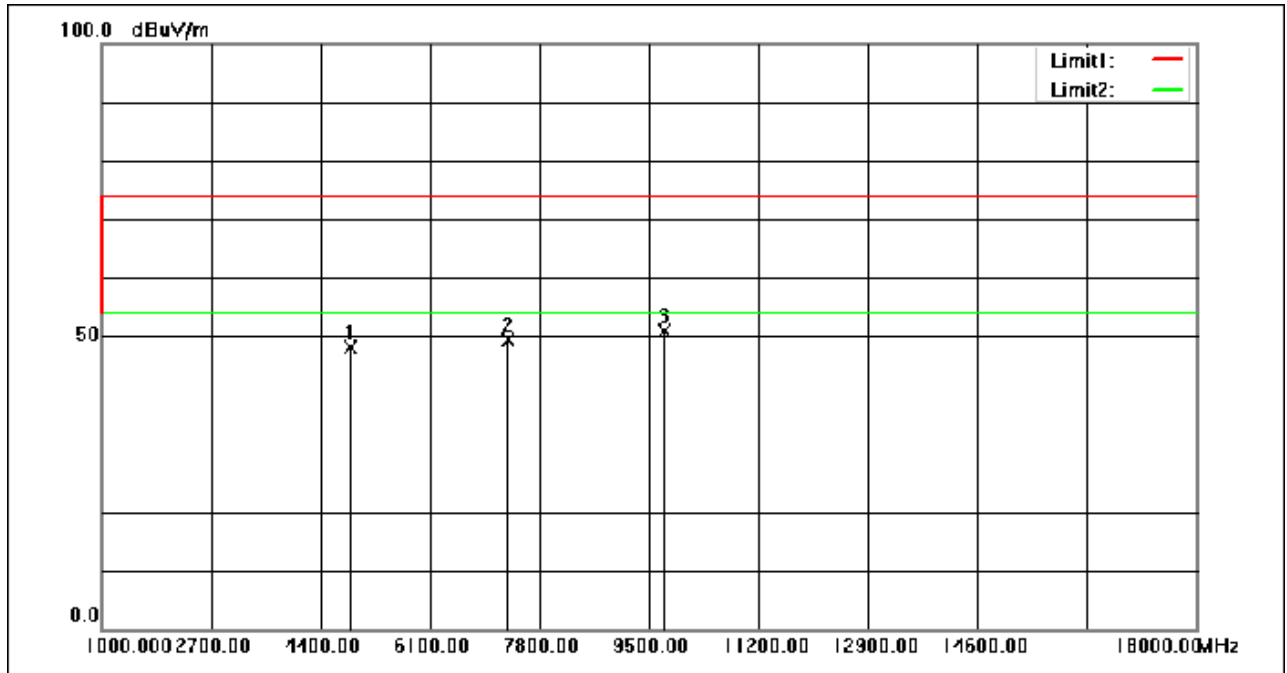
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	57.04	-8.71	48.33	74.00	-25.67	peak
2	7266.000	54.91	-5.83	49.08	74.00	-24.92	peak
3	9688.000	51.57	-1.36	50.21	74.00	-23.79	peak



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



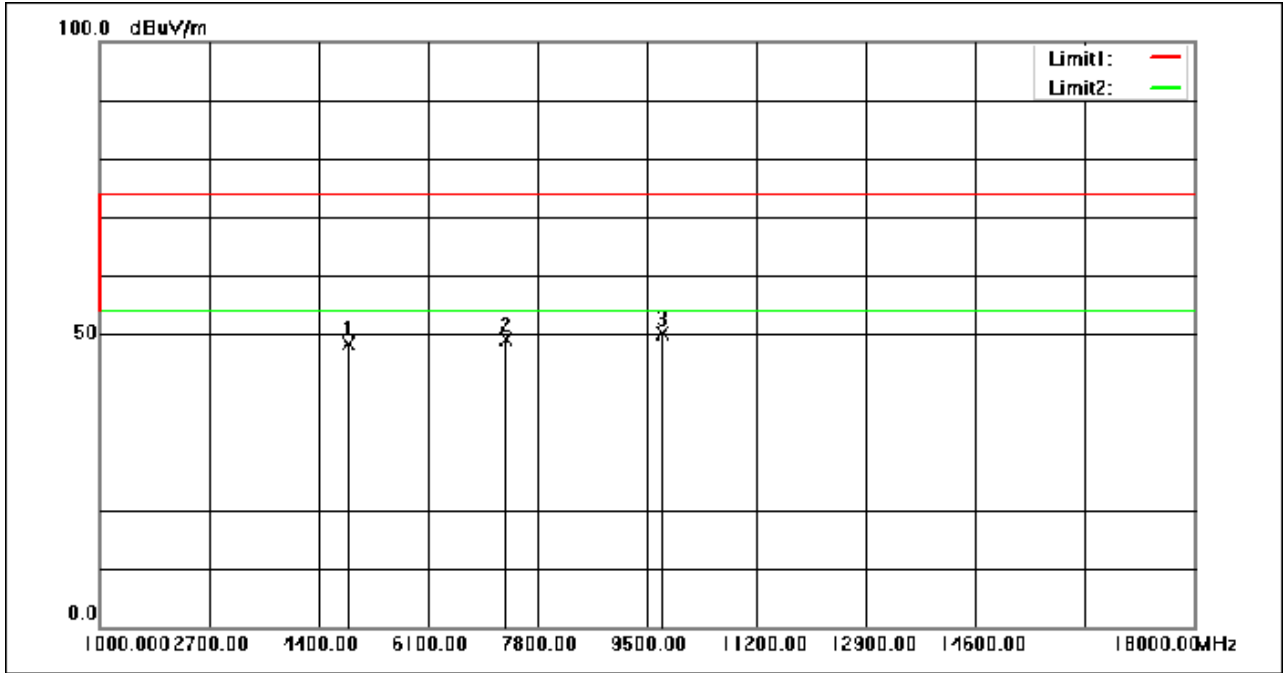
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	56.81	-8.61	48.20	74.00	-25.80	peak
2	7311.000	55.21	-5.78	49.43	74.00	-24.57	peak
3	9748.000	52.41	-1.43	50.98	74.00	-23.02	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.07	-8.61	48.46	74.00	-25.54	peak
2	7311.000	54.97	-5.78	49.19	74.00	-24.81	peak
3	9748.000	51.48	-1.43	50.05	74.00	-23.95	peak

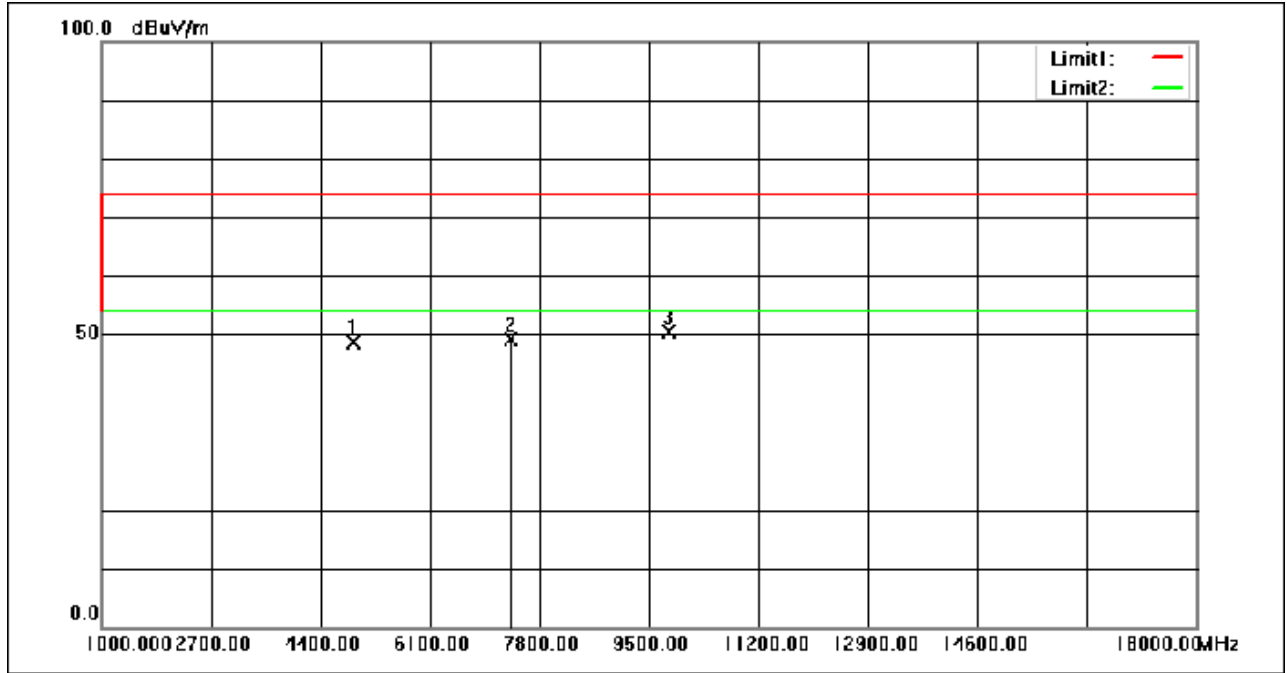


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



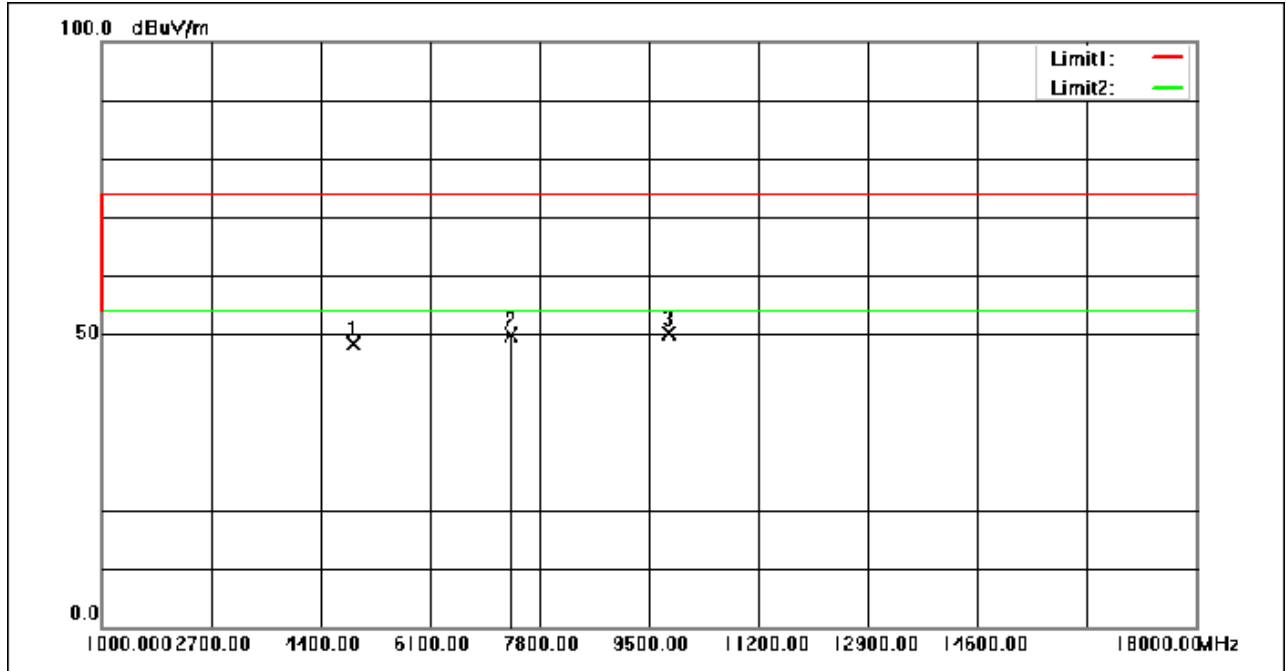
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	57.16	-8.51	48.65	74.00	-25.35	peak
2	7356.000	54.76	-5.73	49.03	74.00	-24.97	peak
3	9808.000	51.74	-1.47	50.27	74.00	-23.73	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	56.99	-8.51	48.48	74.00	-25.52	peak
2	7356.000	55.55	-5.73	49.82	74.00	-24.18	peak
3	9808.000	51.58	-1.47	50.11	74.00	-23.89	peak



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**7.10 99% Bandwidth**

Test Requirement RSS-Gen Section 6.7  
 Test Method: ANSI C63.10 Section 6.9.3

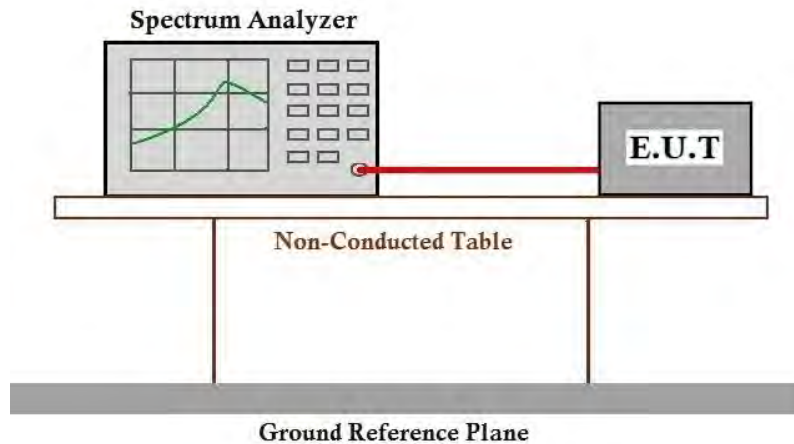
**7.10.1 E.U.T. Operation**

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

**7.10.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

**7.10.3 Test Setup Diagram**



**7.10.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2302000255AT

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2302000255AT





## 10 Appendix

### Appendix for SHCR230200025501

Power level setting using in test:

Channel	802.11b		802.11g		802.11n(HT20)	
	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
1	20	20	20	20	20	20
6	20	20	20	20	20	20
11	20	20	20	20	20	20
Channel	802.11n(HT40)					
	Ant 1	Ant 2				
3	20	20				
6	20	20				
9	20	20				

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

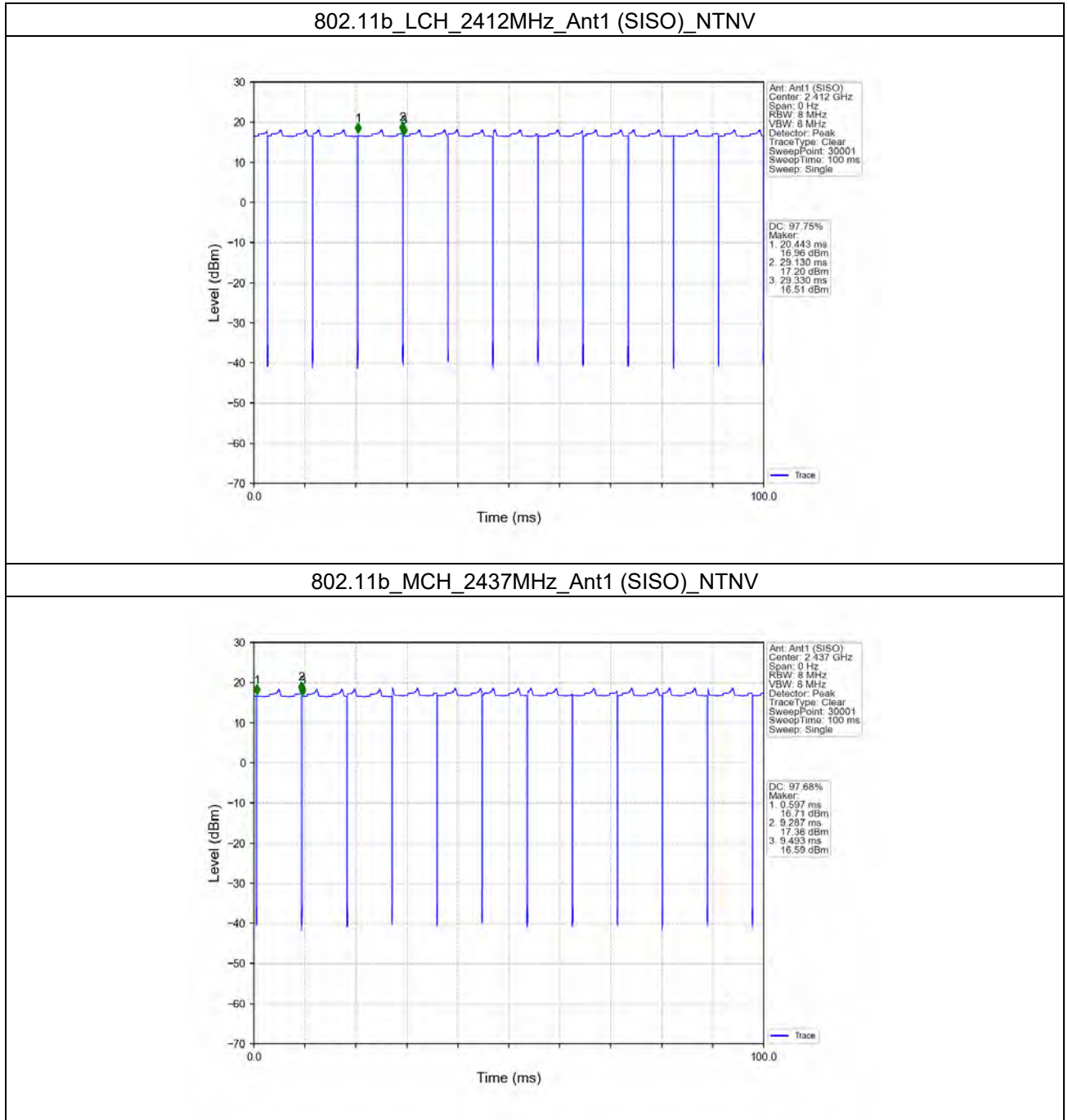
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.687	8.887	97.75	0.10	1.30
		2437	8.690	8.896	97.68	0.10	1.07
		2462	8.690	8.890	97.75	0.10	1.30
802.11g	SISO	2412	1.349	1.563	86.31	0.64	4.72
		2437	1.349	1.518	88.87	0.51	5.05
		2462	1.349	1.527	88.34	0.54	5.51
802.11n (HT20)	MIMO	2412	1.349	1.554	86.81	0.61	7.67
		2437	1.349	1.562	86.36	0.64	3.63
		2462	1.349	1.562	86.36	0.64	7.54
802.11n (HT40)	MIMO	2422	0.669	0.874	76.54	1.16	10.78
		2437	0.668	0.882	75.74	1.21	8.63
		2452	0.668	0.882	75.74	1.21	10.58



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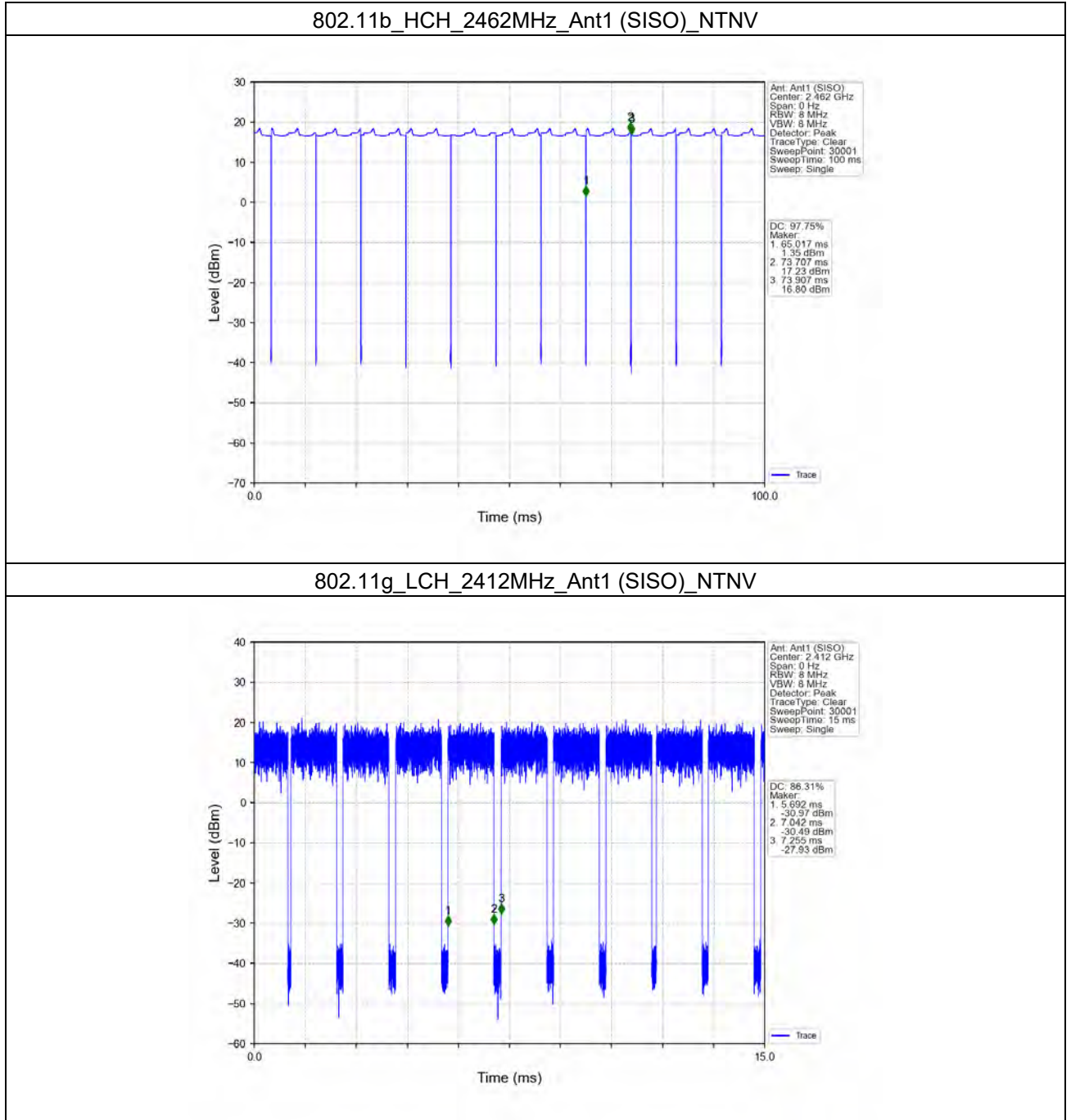
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### 1.1.2 Test Graph



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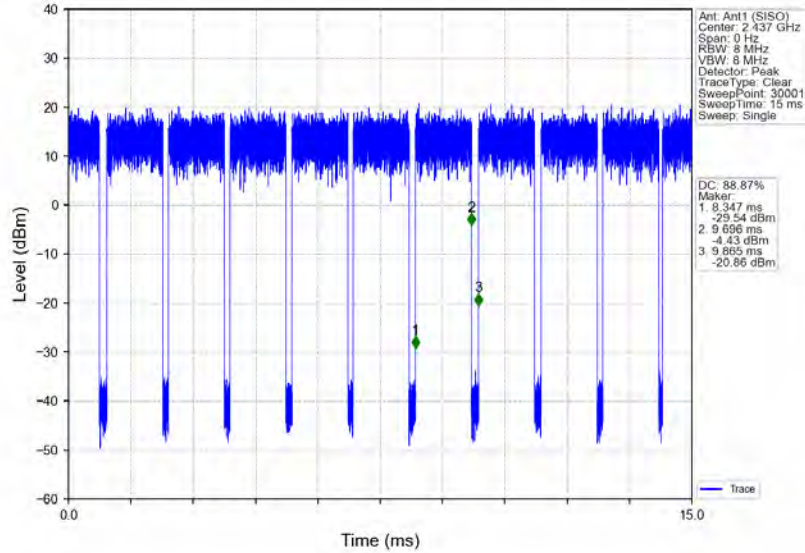


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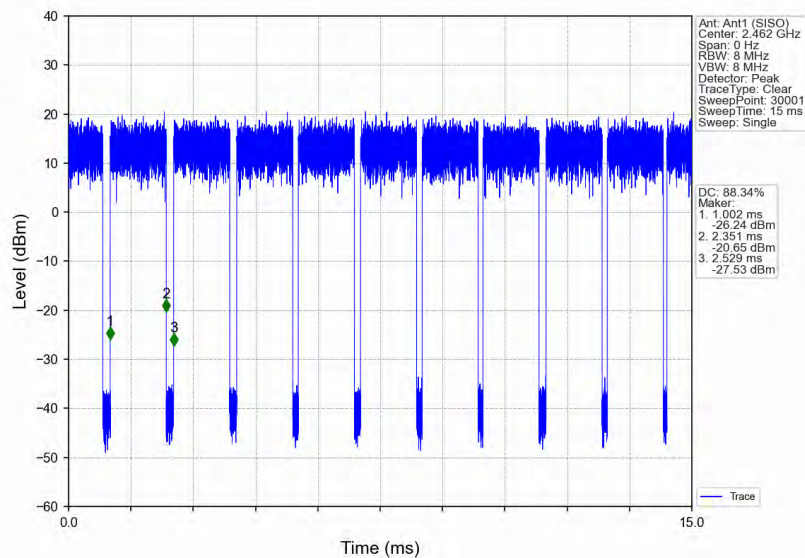
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

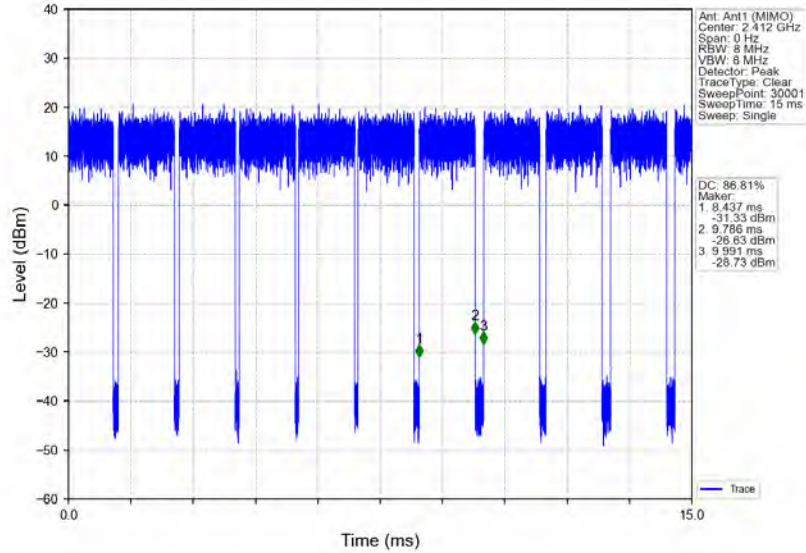


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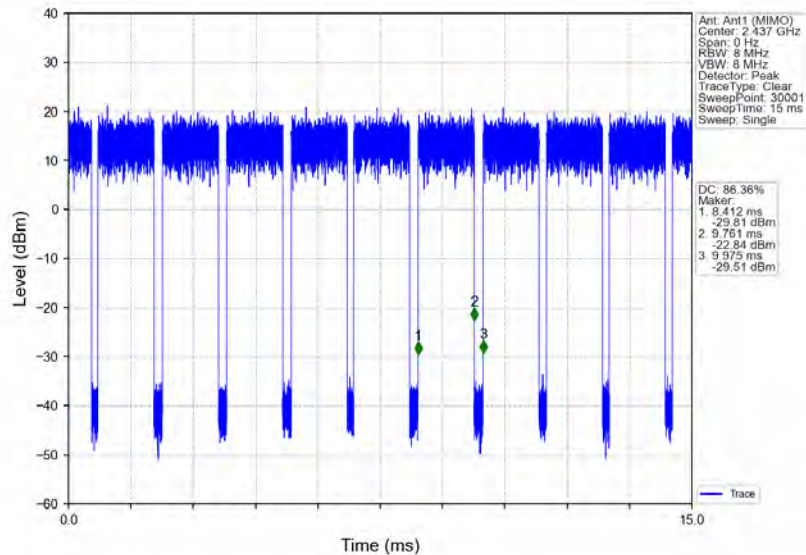
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



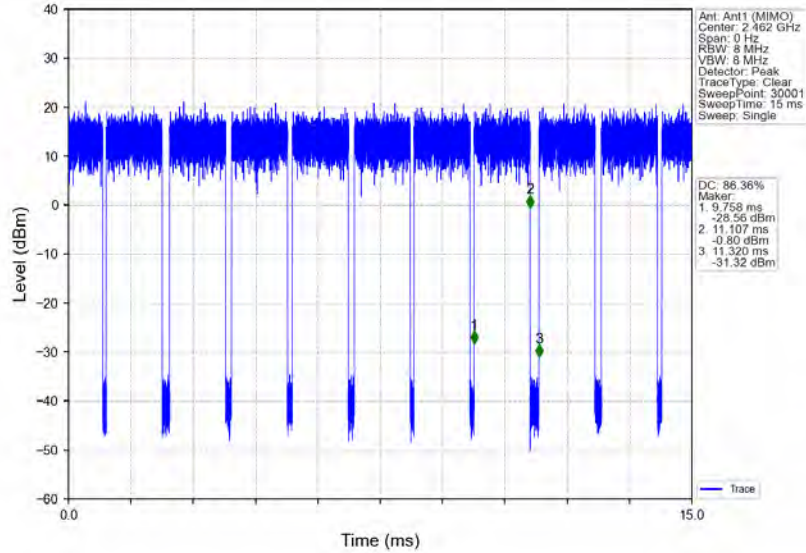
### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



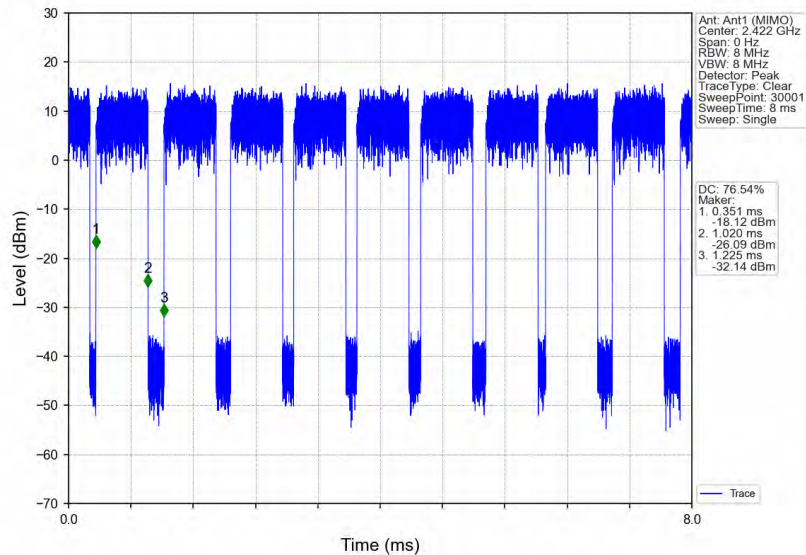
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV

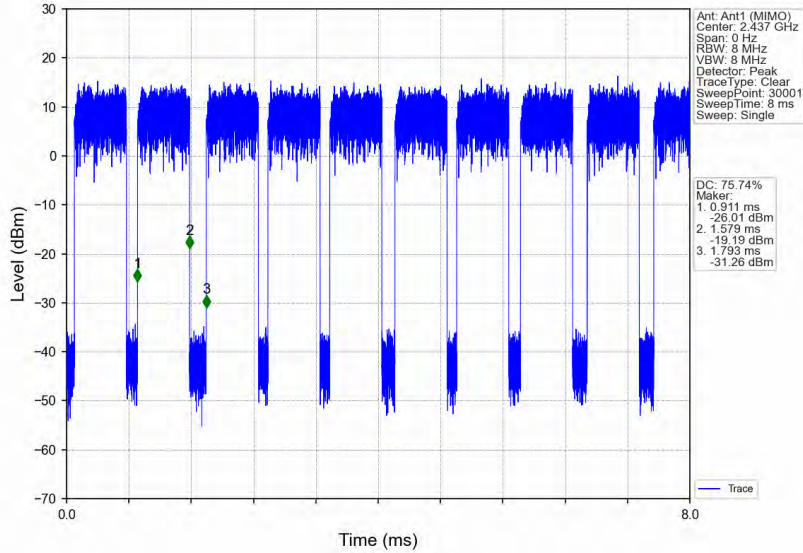


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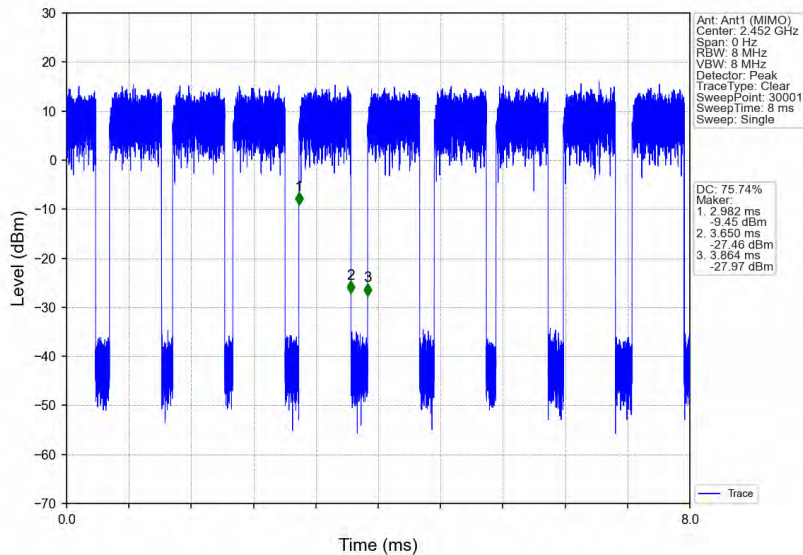
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### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



### 802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



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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	
802.11b	SISO	2412	1	14.175	Pass
			2	14.136	Pass
		2437	1	14.193	Pass
			2	14.152	Pass
		2462	1	14.181	Pass
			2	14.138	Pass
802.11g	SISO	2412	1	17.650	Pass
			2	18.045	Pass
		2437	1	17.677	Pass
			2	18.064	Pass
		2462	1	17.675	Pass
			2	18.040	Pass
802.11n (HT20)	MIMO	2412	1	18.034	Pass
			2	17.653	Pass
		2437	1	18.078	Pass
			2	17.665	Pass
		2462	1	18.046	Pass
			2	17.670	Pass
802.11n (HT40)	MIMO	2422	1	36.262	Pass
			2	36.066	Pass
		2437	1	36.314	Pass
			2	36.059	Pass
		2452	1	36.392	Pass
			2	36.101	Pass

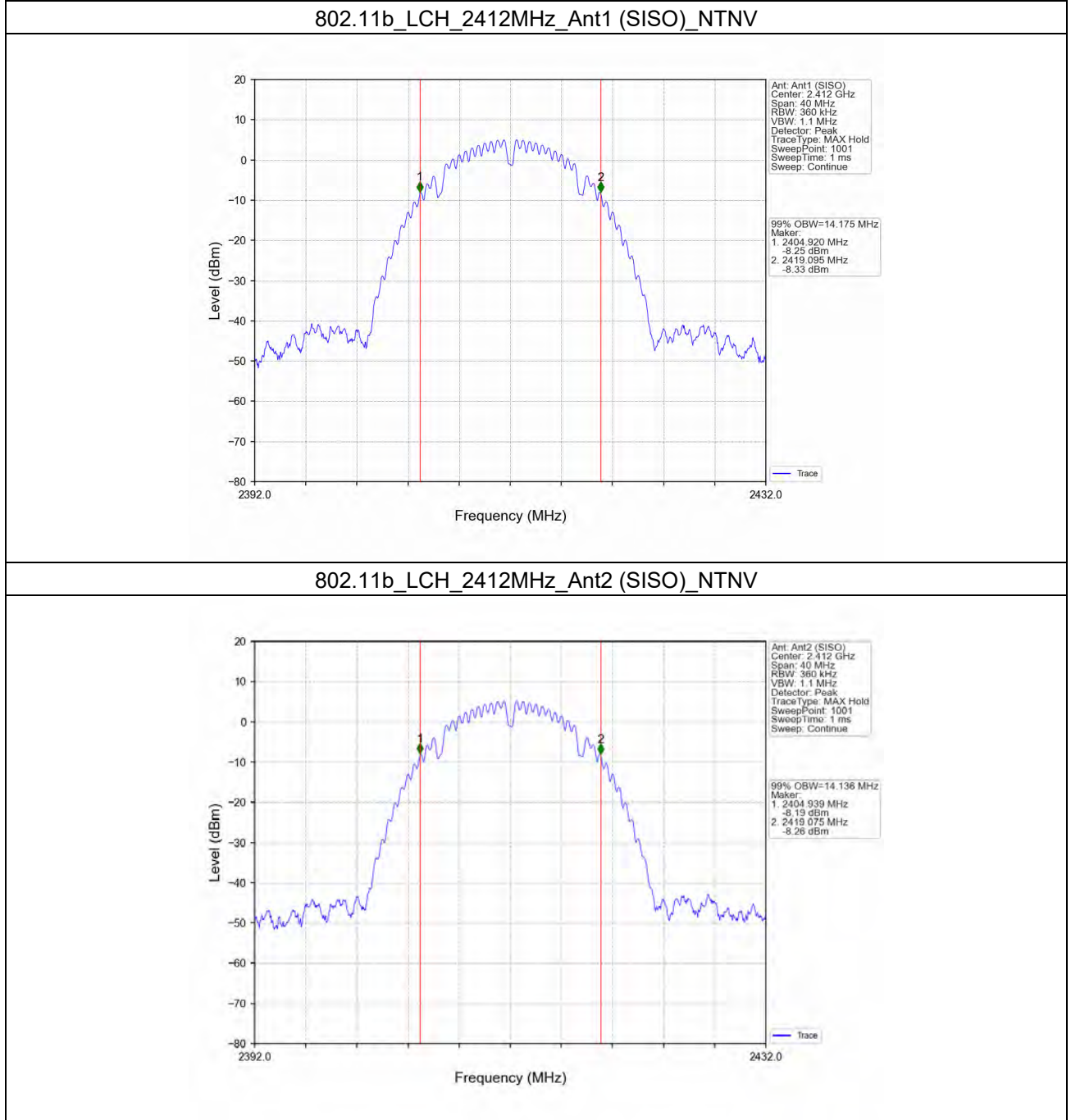


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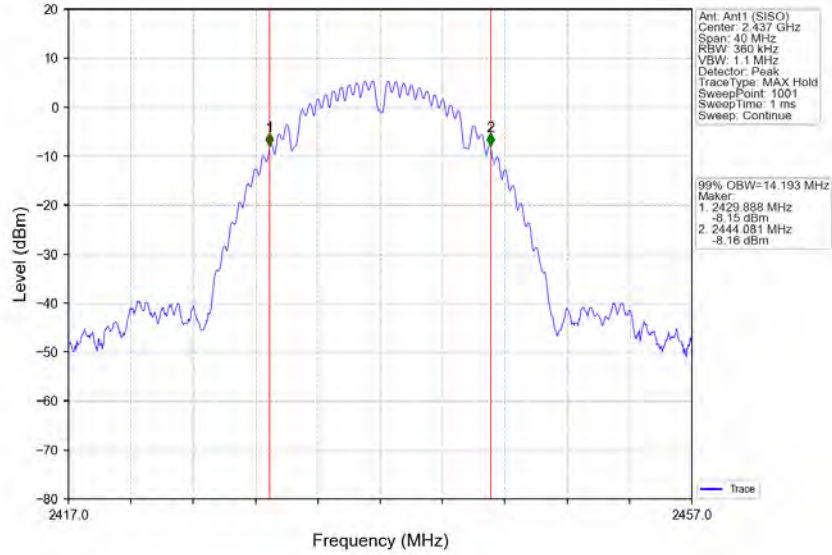
### 2.1.2 Test Graph



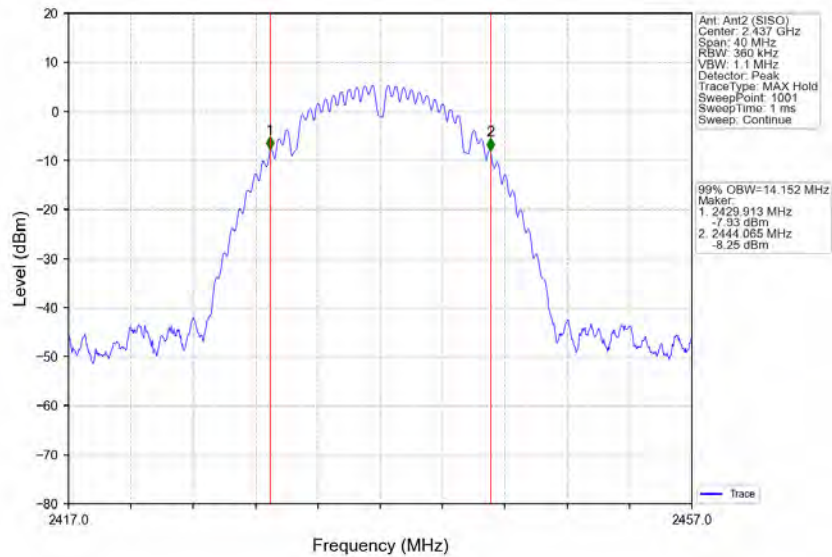
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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



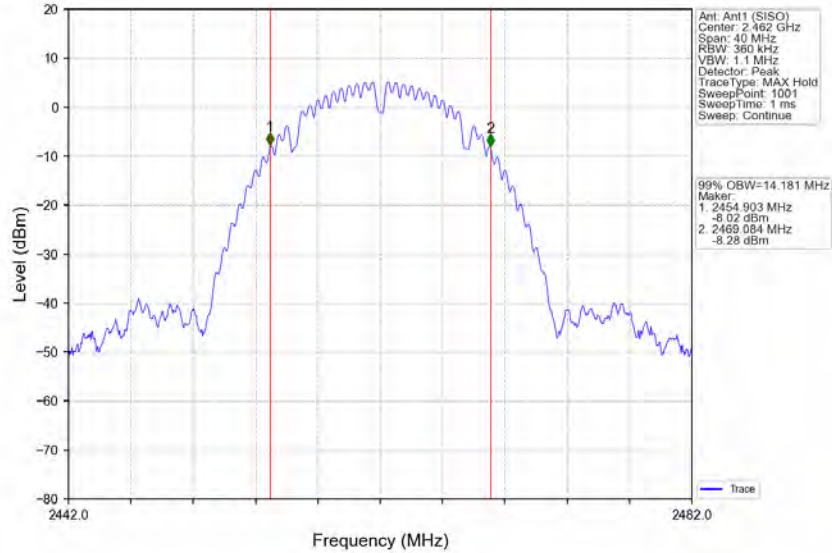
802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



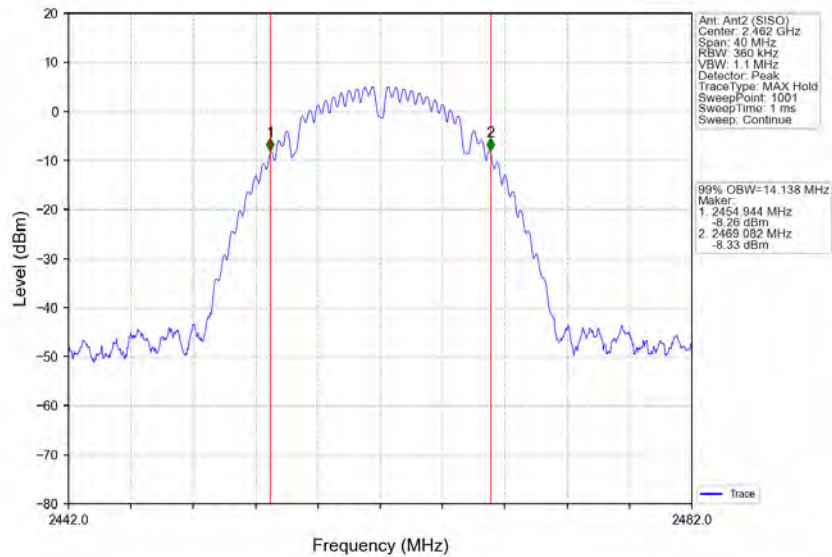
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV

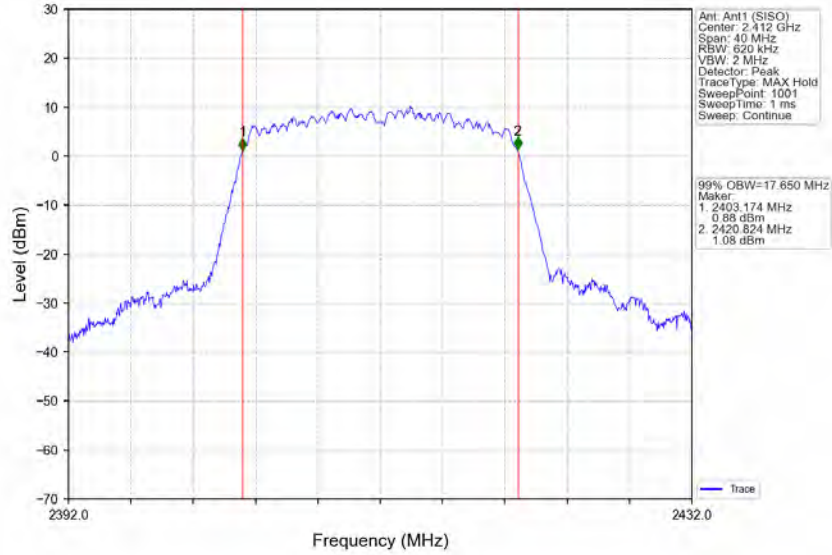


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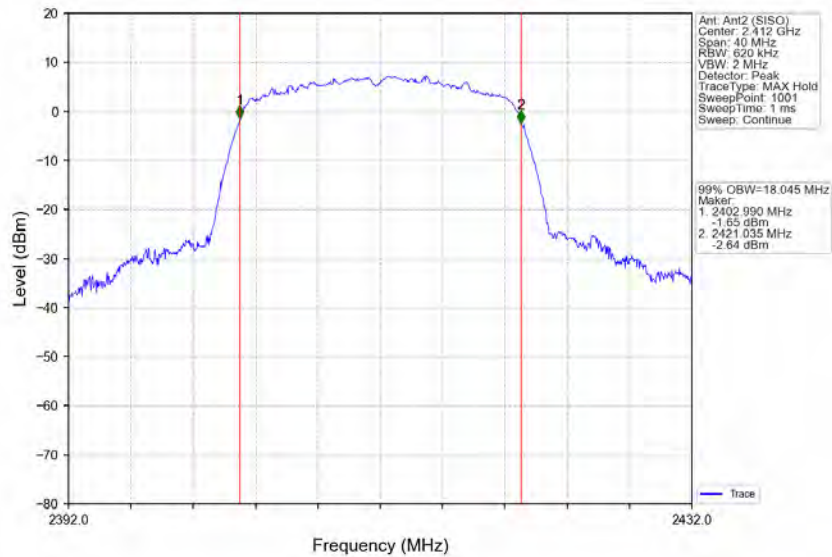
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV

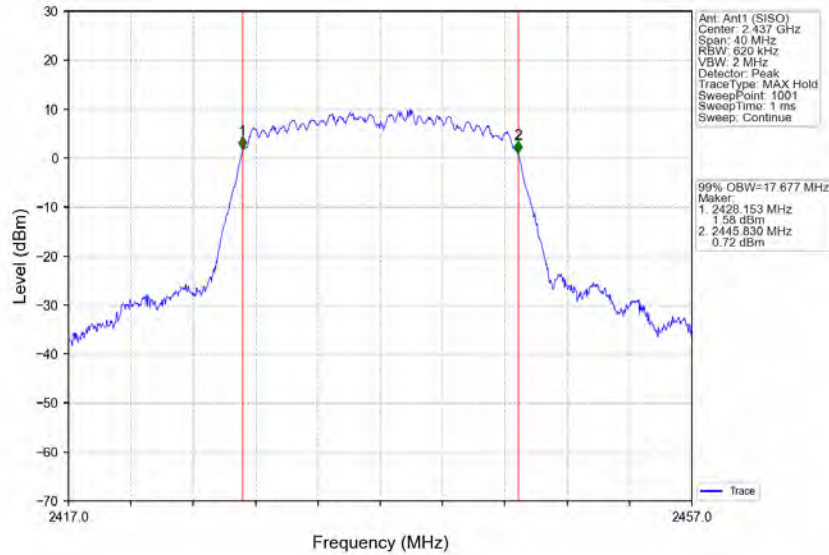


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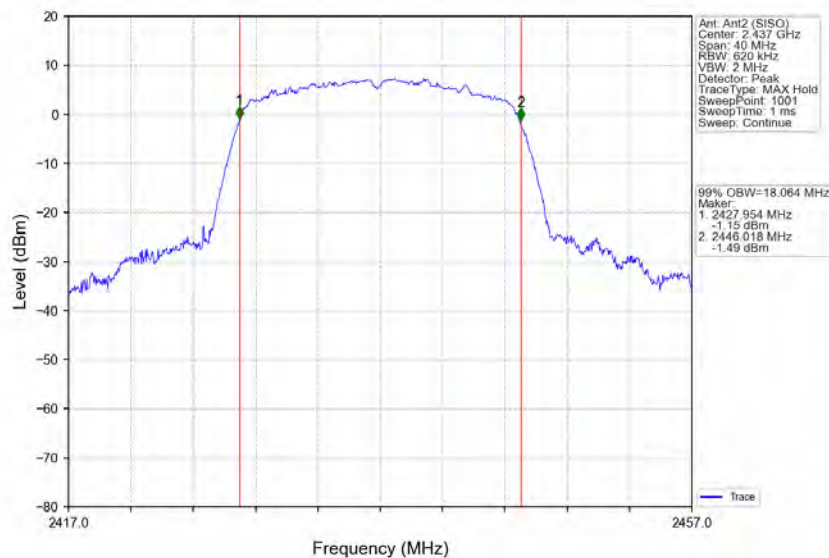
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



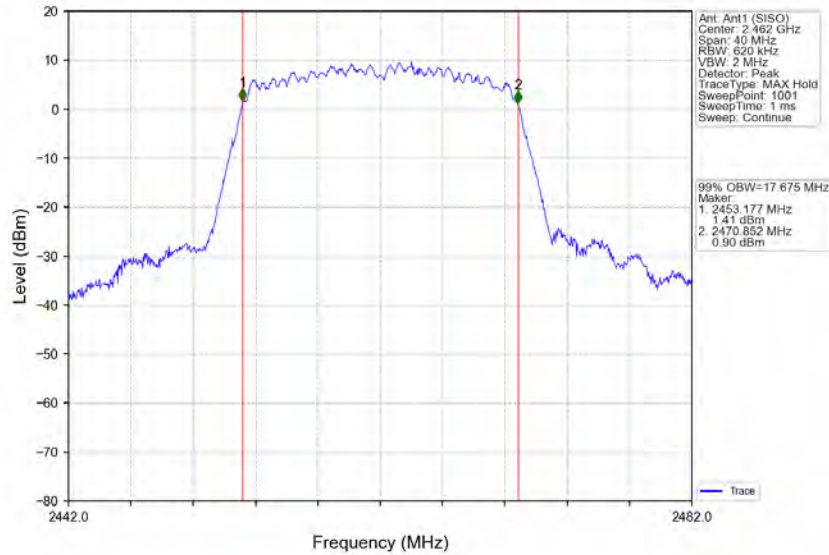
802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



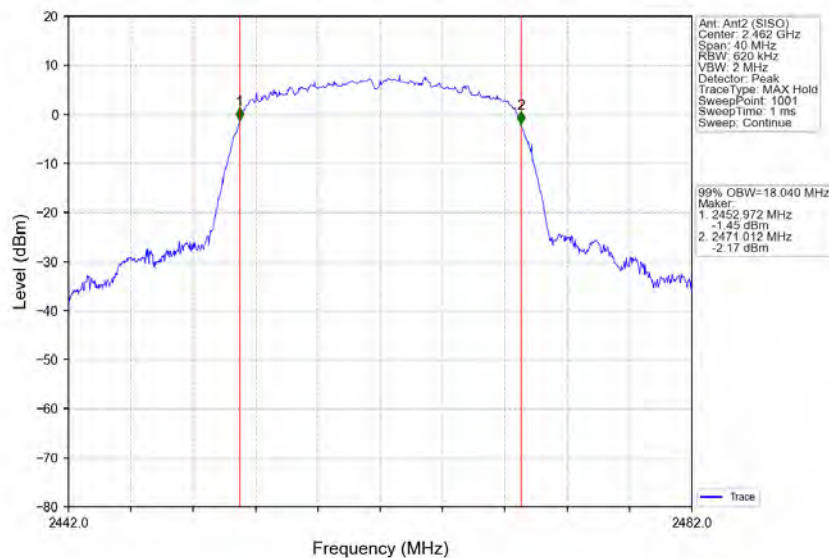
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



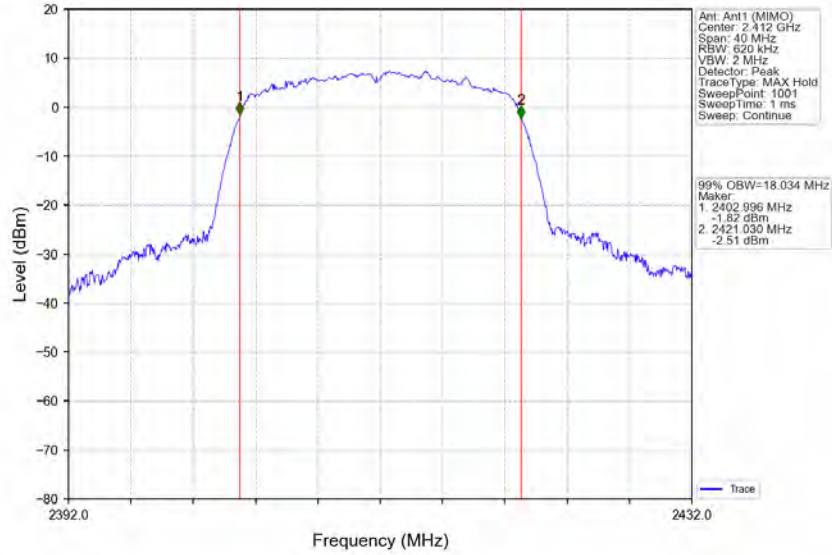
802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



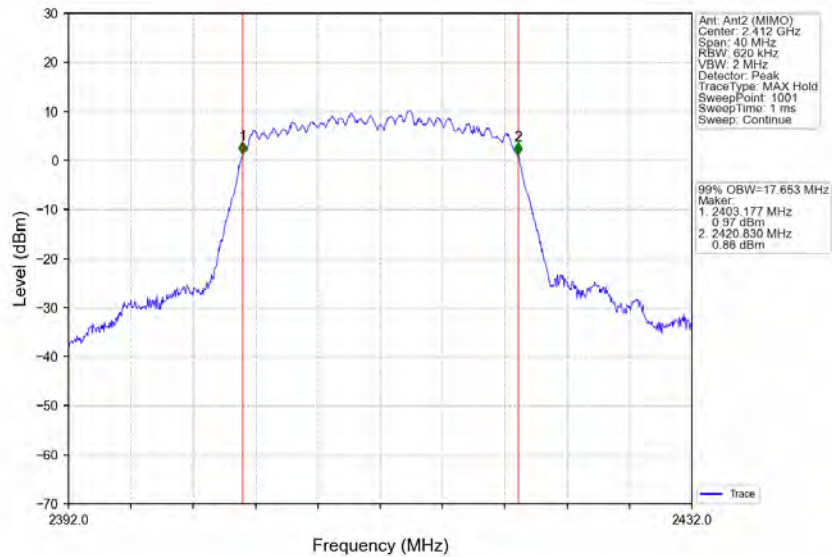
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV

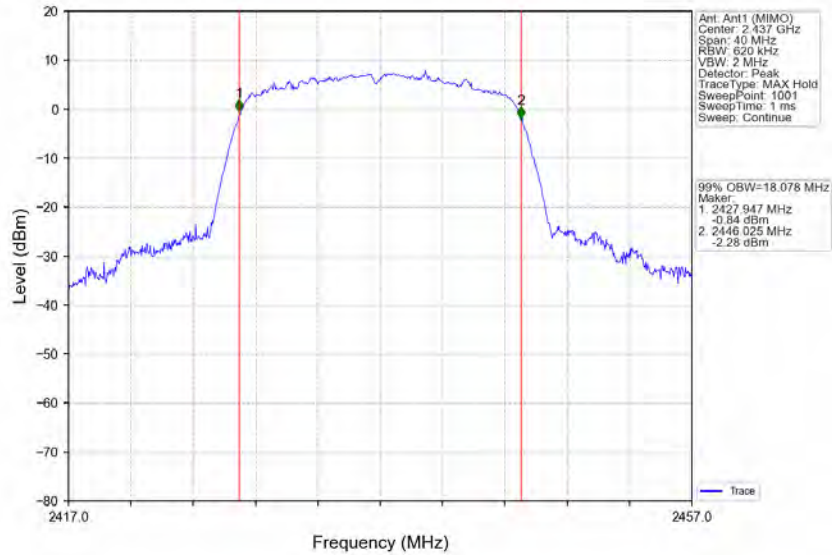


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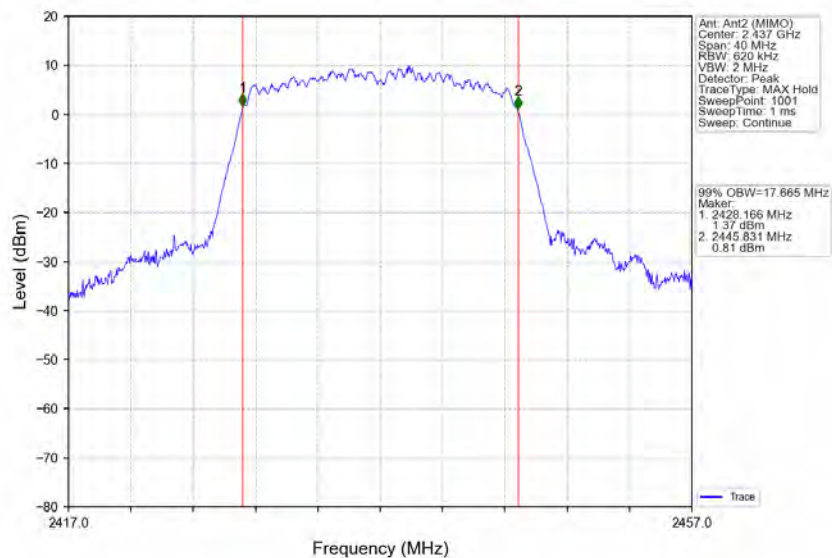
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV

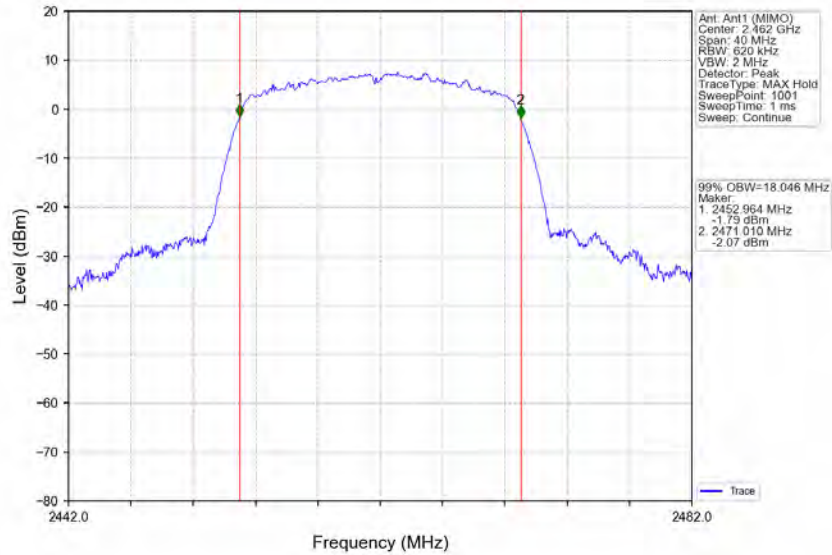


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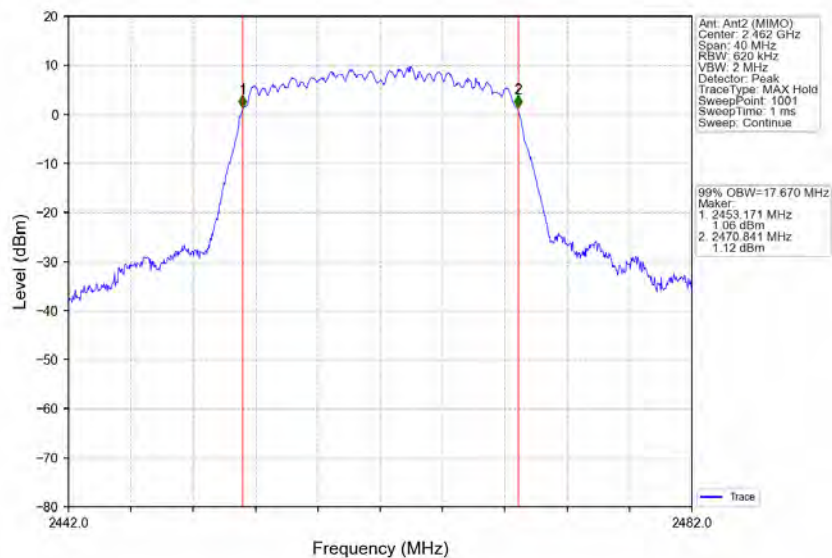
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



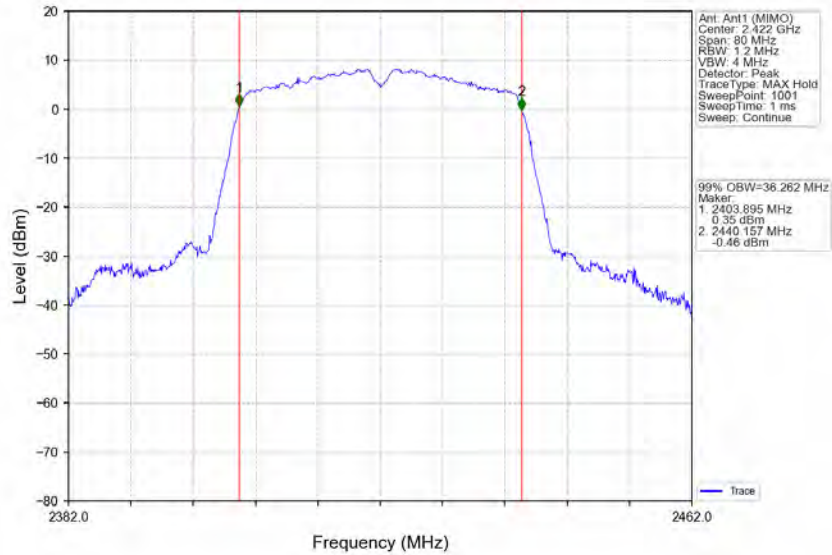
802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



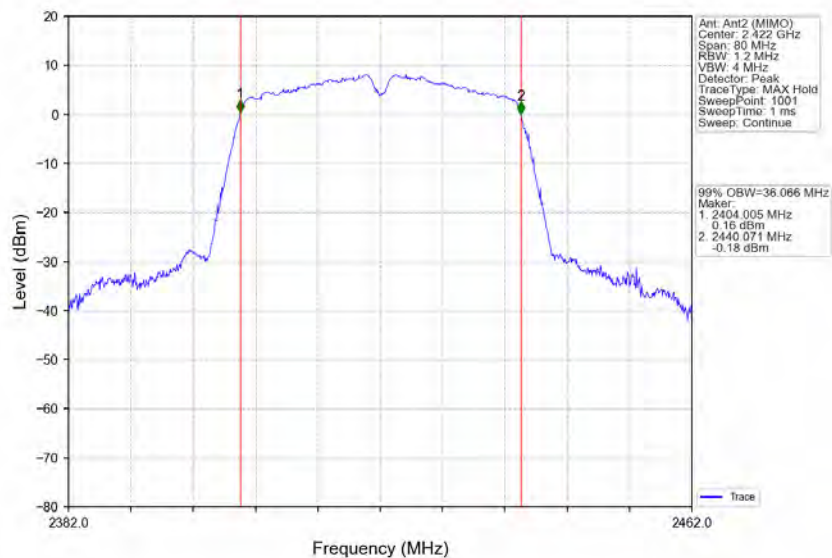
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



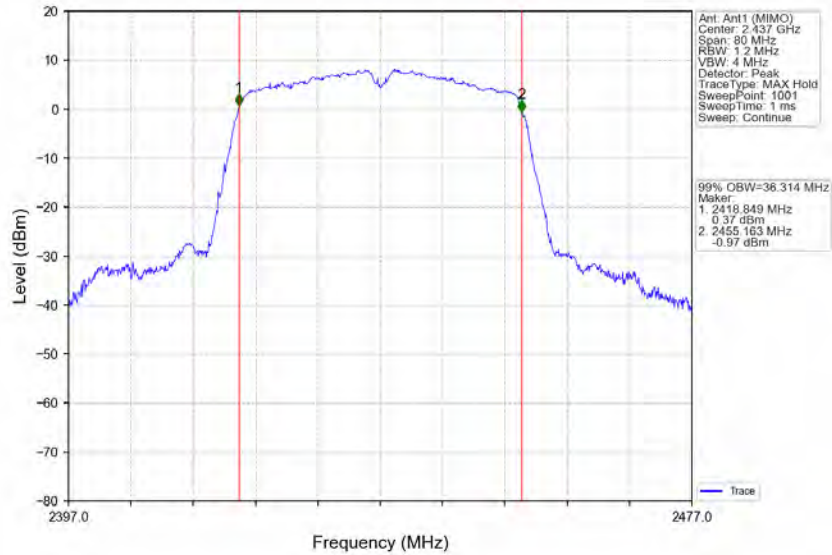
802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



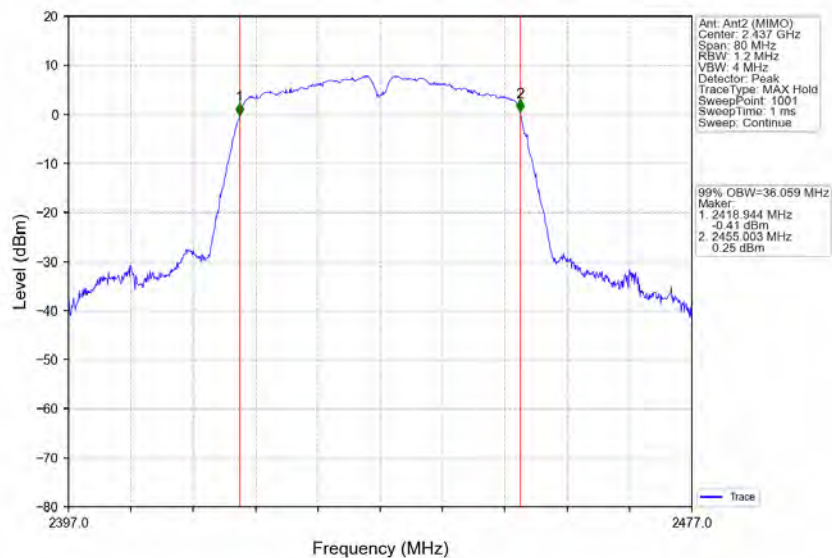
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV

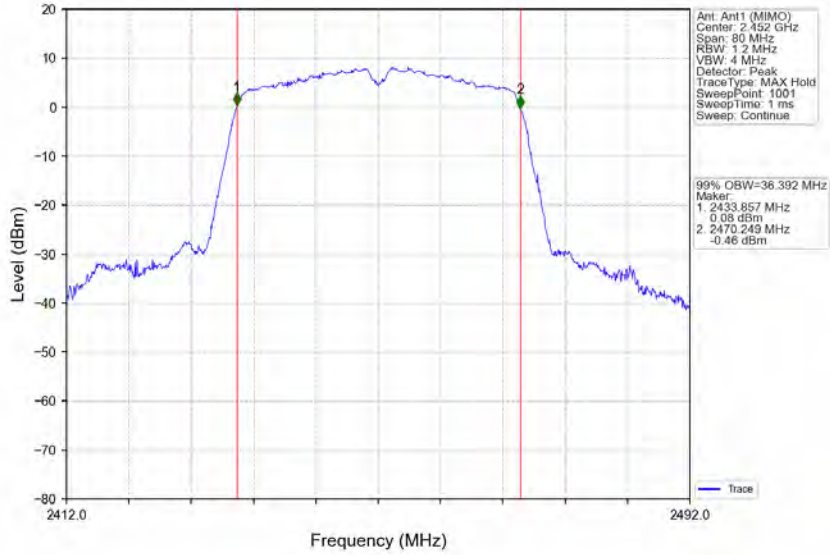


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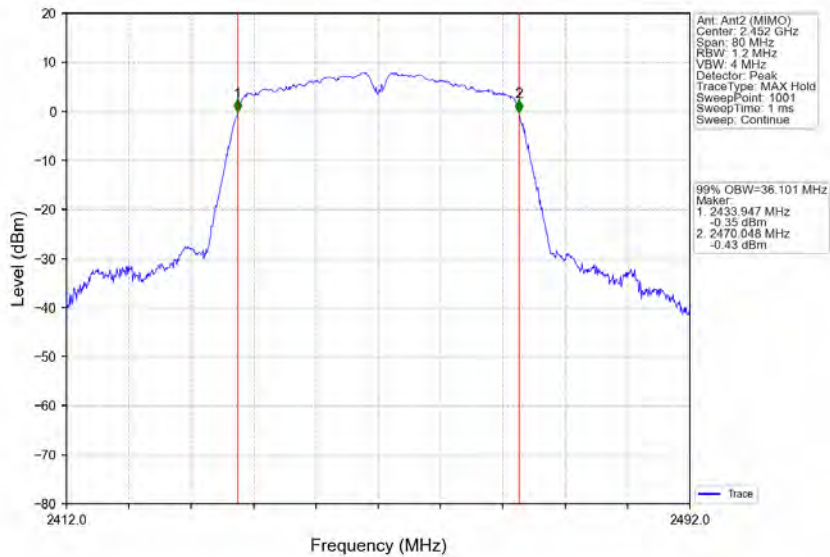
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



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2.2 6dB BW

2.2.1 Test Result

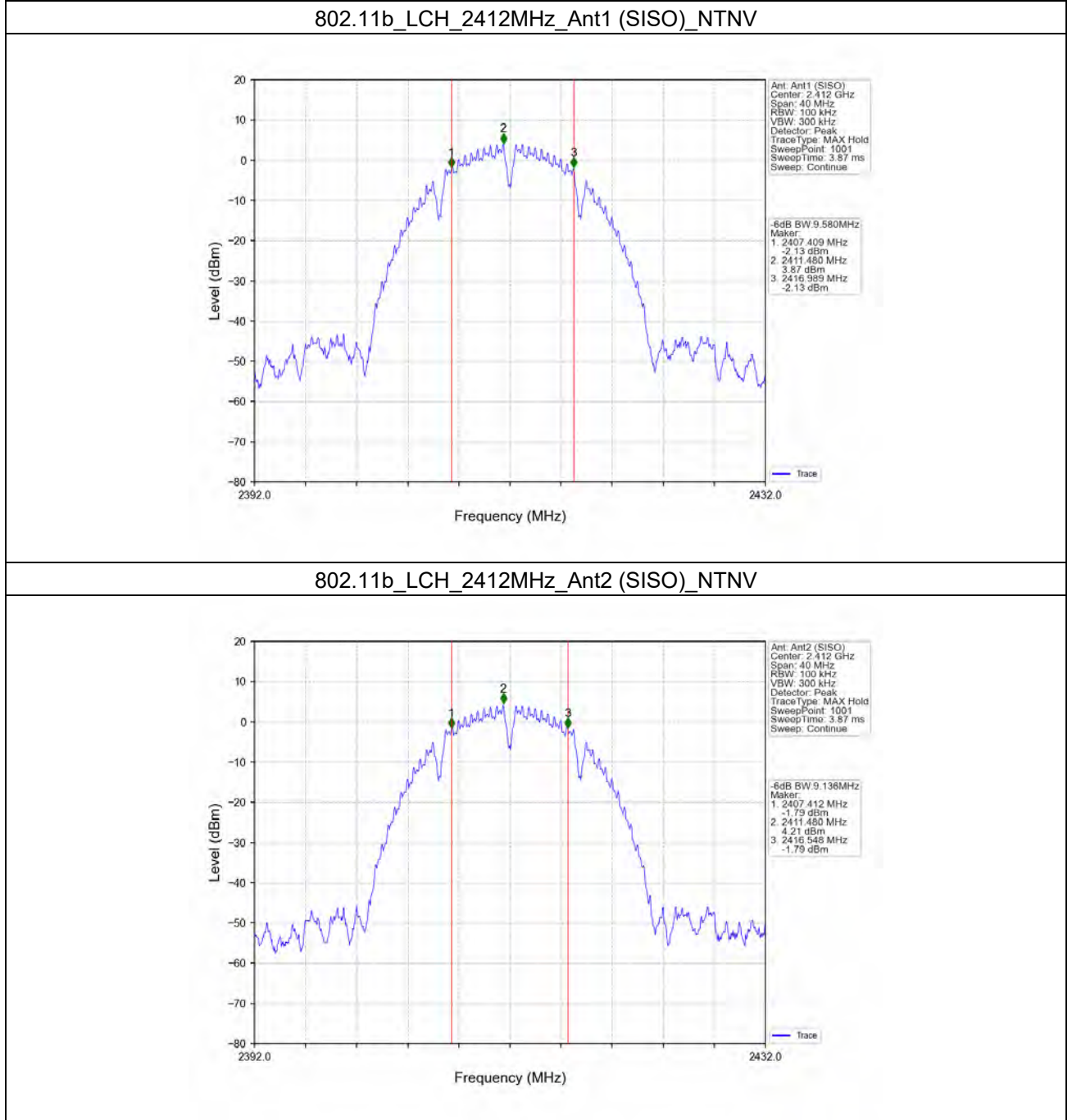
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.580	>=0.5	Pass
			2	9.136	>=0.5	Pass
		2437	1	9.126	>=0.5	Pass
			2	10.009	>=0.5	Pass
		2462	1	9.142	>=0.5	Pass
			2	9.598	>=0.5	Pass
802.11g	SISO	2412	1	15.715	>=0.5	Pass
			2	15.131	>=0.5	Pass
		2437	1	15.719	>=0.5	Pass
			2	15.147	>=0.5	Pass
		2462	1	15.147	>=0.5	Pass
			2	15.148	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.136	>=0.5	Pass
			2	15.135	>=0.5	Pass
		2437	1	15.132	>=0.5	Pass
			2	15.746	>=0.5	Pass
		2462	1	15.142	>=0.5	Pass
			2	15.153	>=0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.105	>=0.5	Pass
			2	35.109	>=0.5	Pass
		2437	1	35.107	>=0.5	Pass
			2	35.120	>=0.5	Pass
		2452	1	35.111	>=0.5	Pass
			2	35.111	>=0.5	Pass



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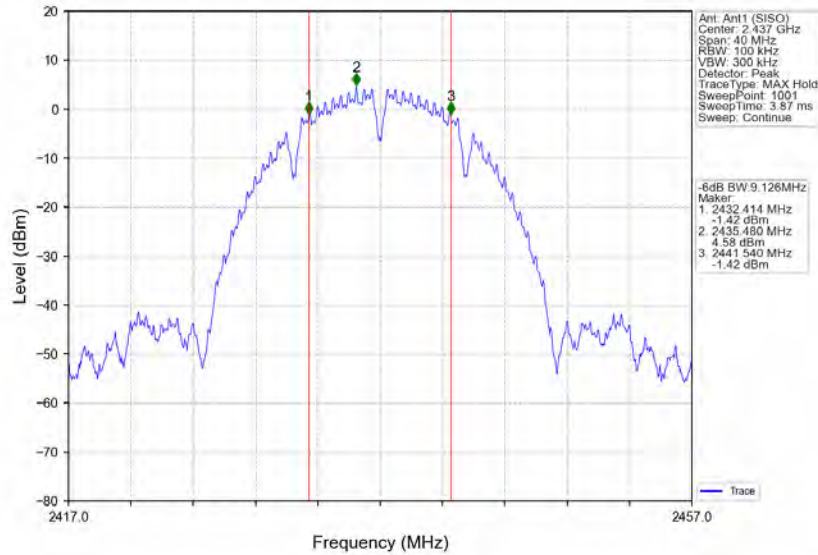
### 2.2.2 Test Graph



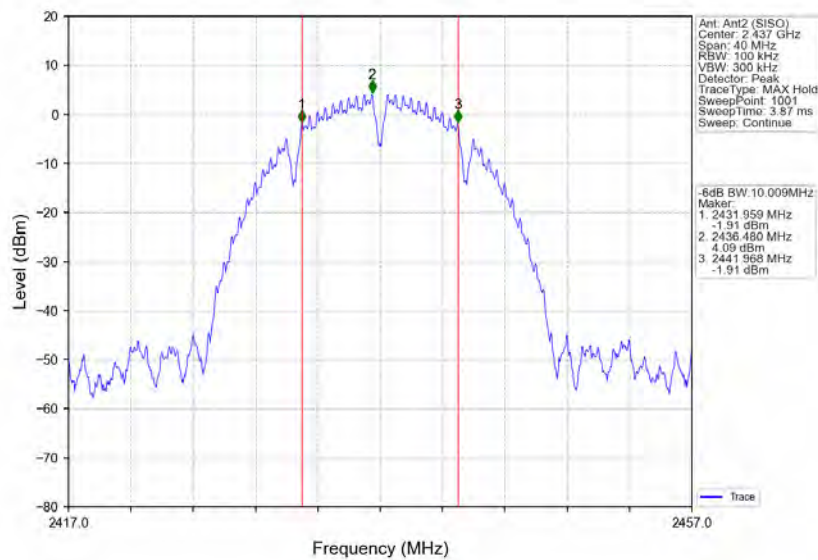
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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV

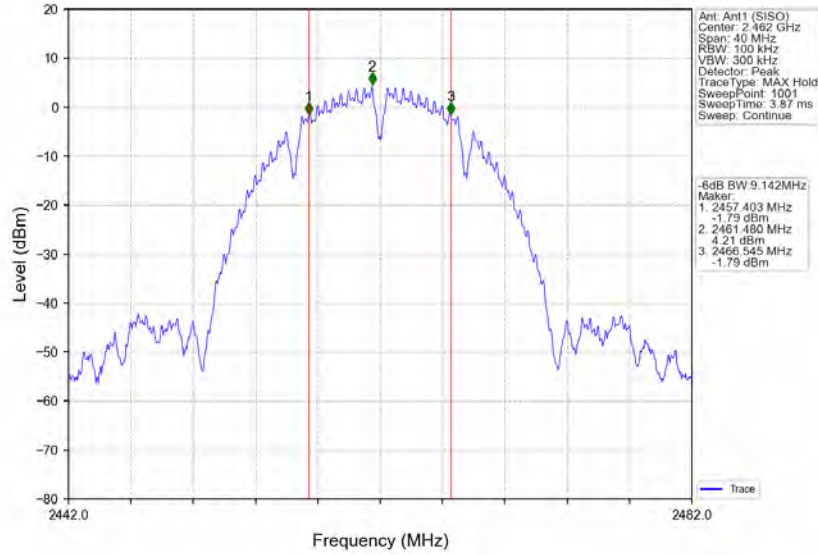


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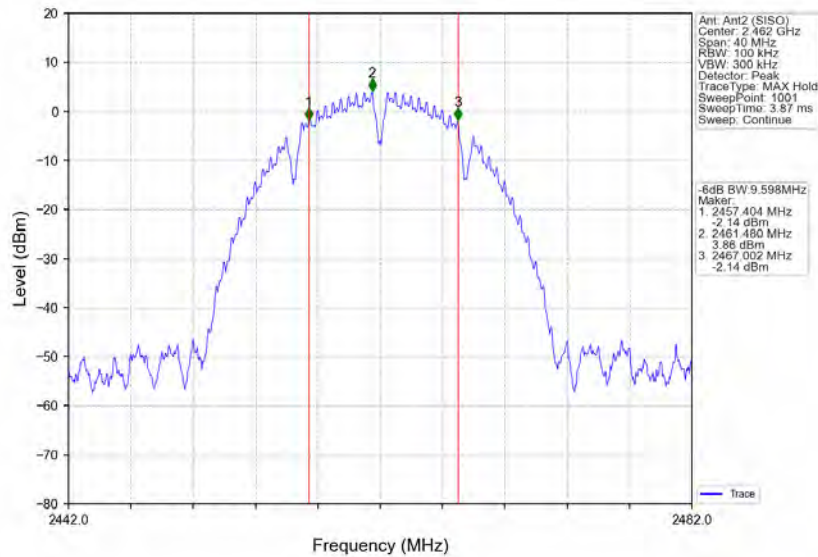
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV

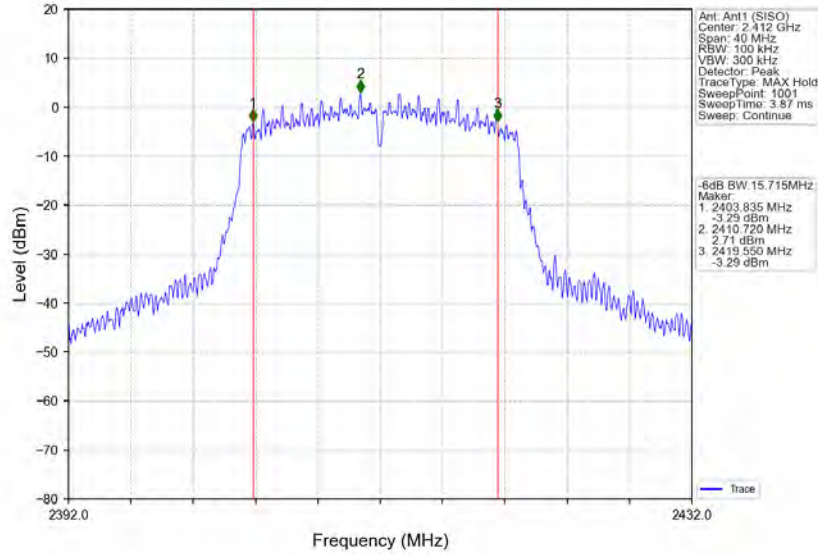


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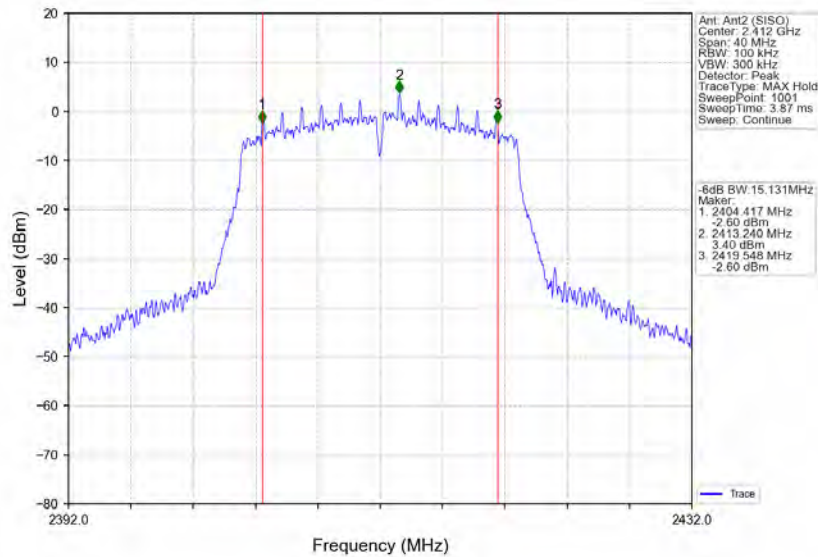
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



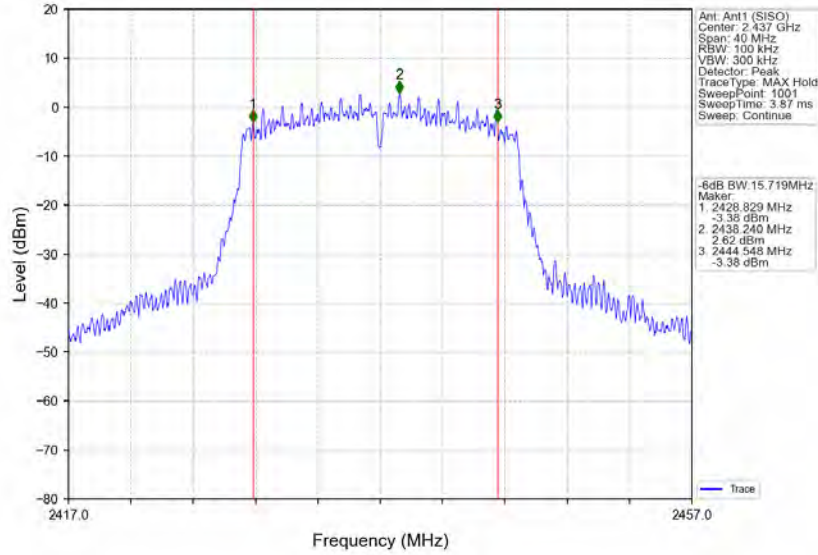
802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



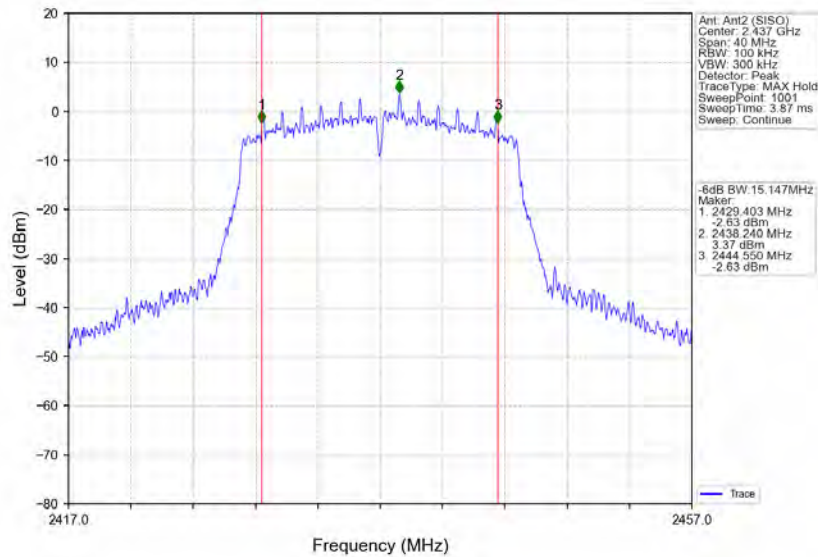
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



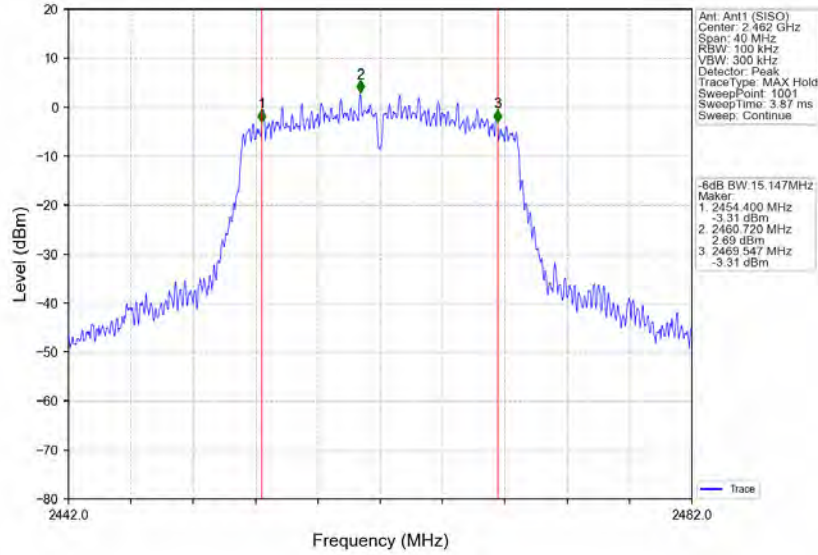
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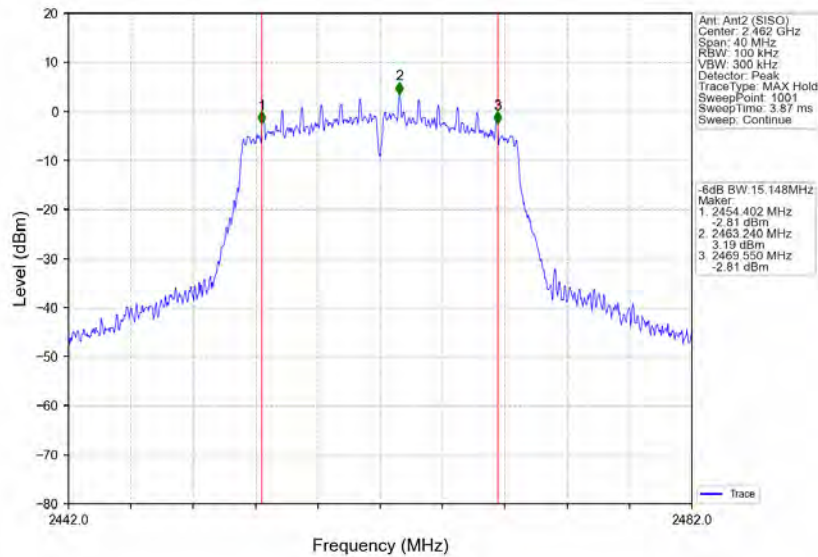
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV

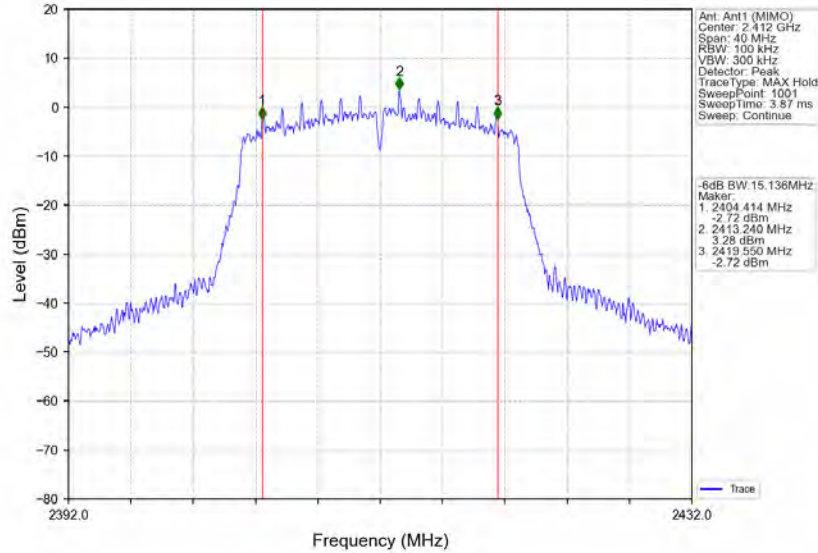


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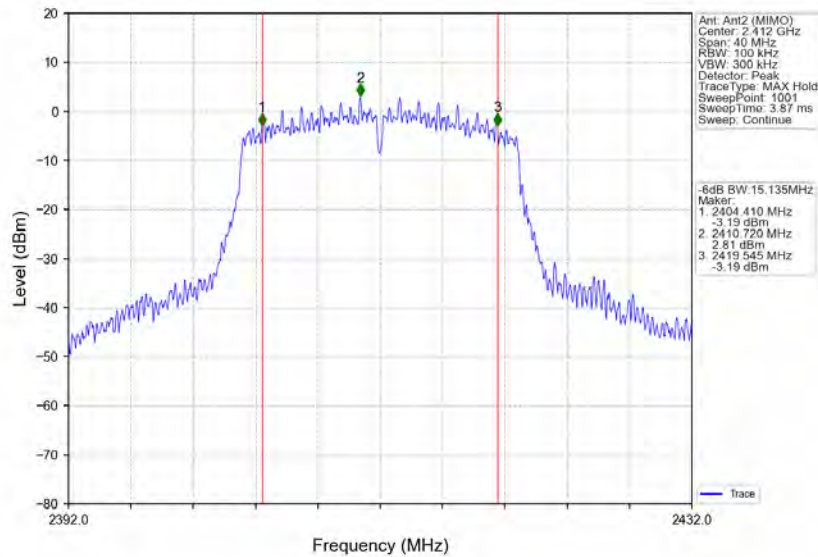
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV

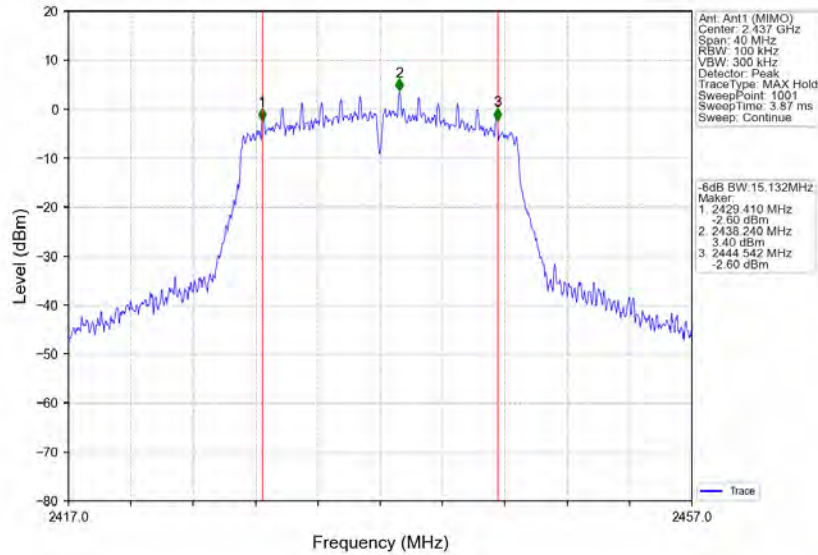


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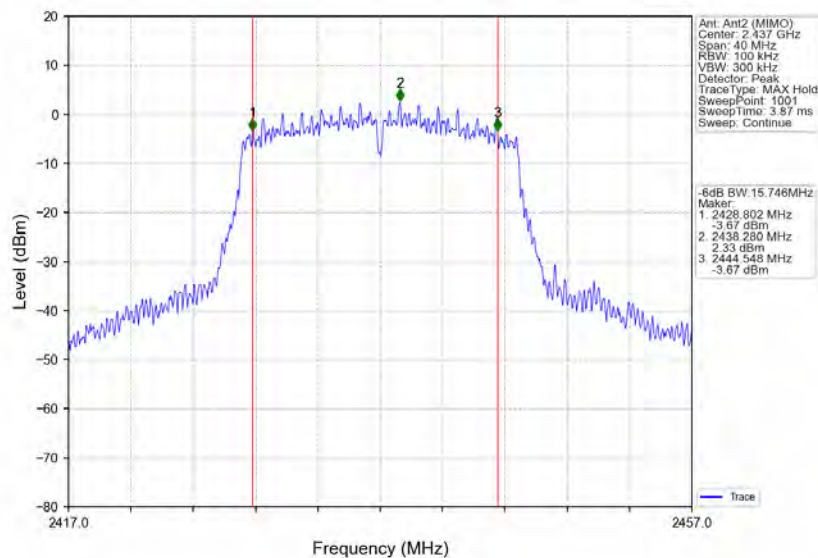
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



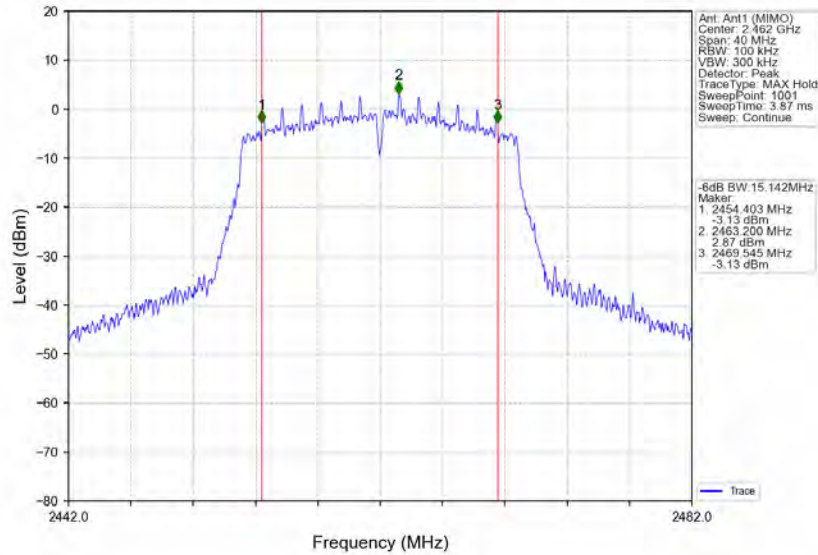
802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



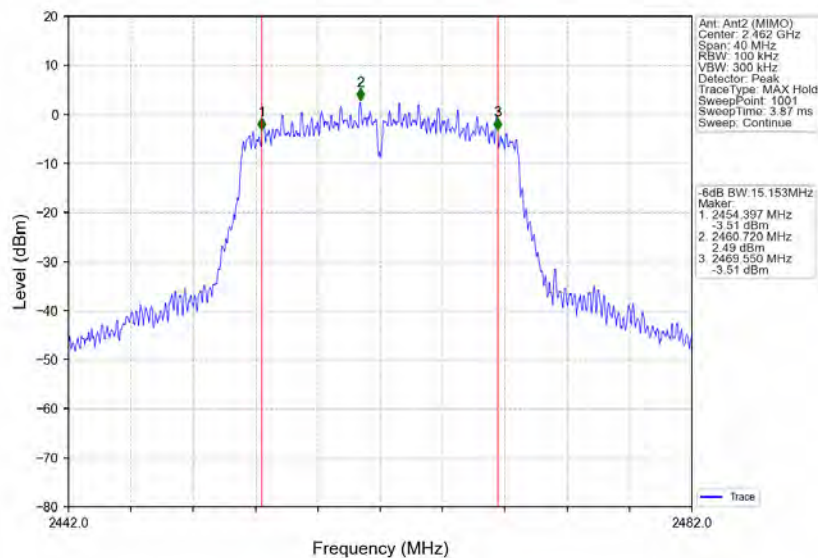
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



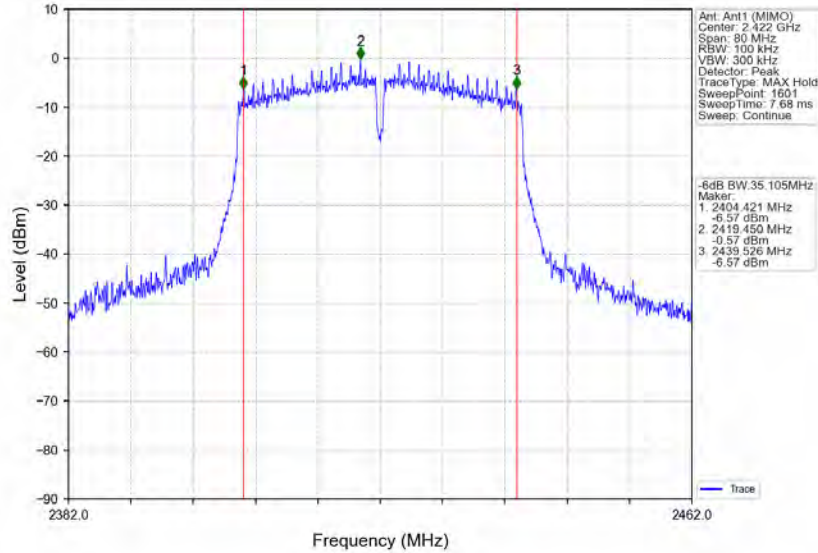
802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



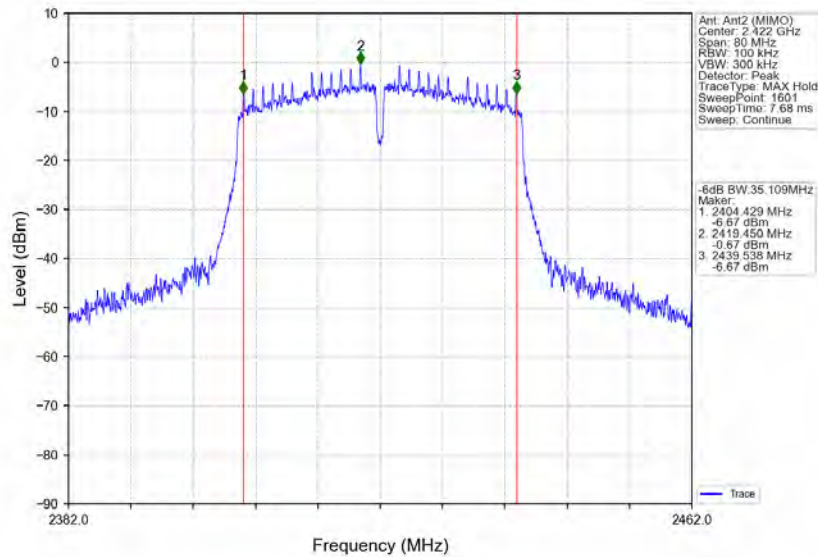
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV

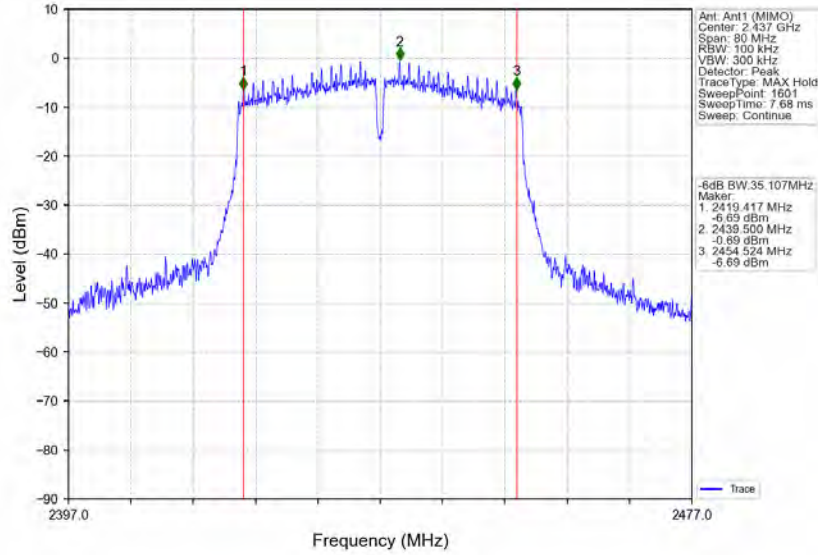


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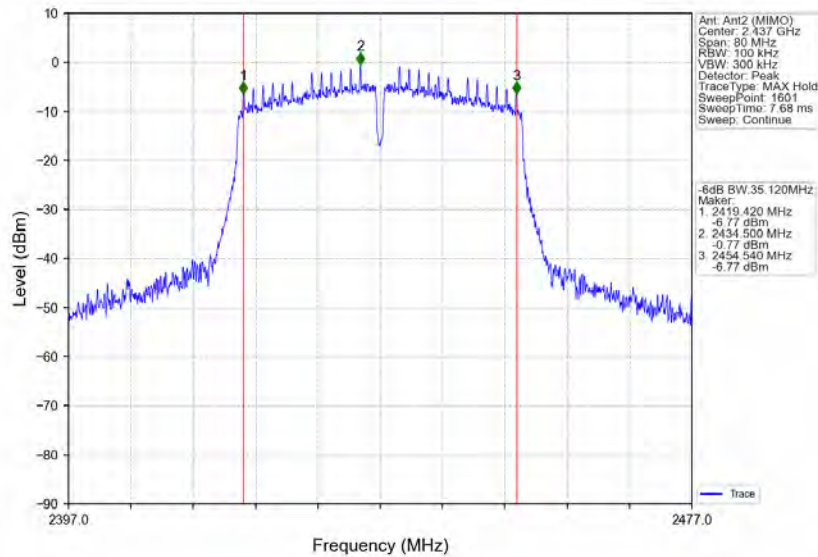
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV

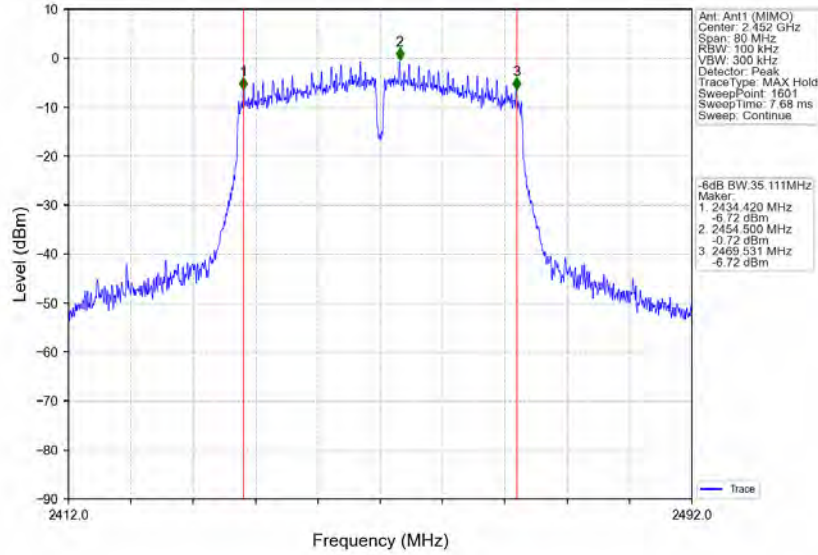


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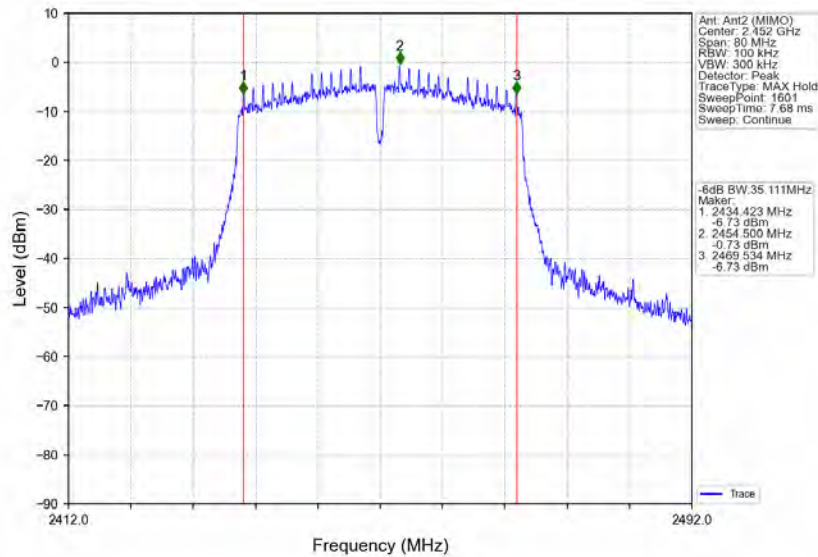
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	13.36	13.55	/	<=30	Pass
		2437	13.60	13.55	/	<=30	Pass
		2462	13.46	13.36	/	<=30	Pass
802.11g	SISO	2412	12.92	12.58	/	<=30	Pass
		2437	12.74	12.75	/	<=30	Pass
		2462	12.58	12.66	/	<=30	Pass
802.11n (HT20)	MIMO	2412	12.61	12.84	15.74	<=30	Pass
		2437	12.79	12.66	15.74	<=30	Pass
		2462	12.67	12.55	15.62	<=30	Pass
802.11n (HT40)	MIMO	2422	11.94	11.81	14.89	<=30	Pass
		2437	11.79	11.79	14.80	<=30	Pass
		2452	11.78	11.83	14.82	<=30	Pass

Note1: Antenna Gain: Ant1: 1.70dBi; Ant2: 2.77dBi;

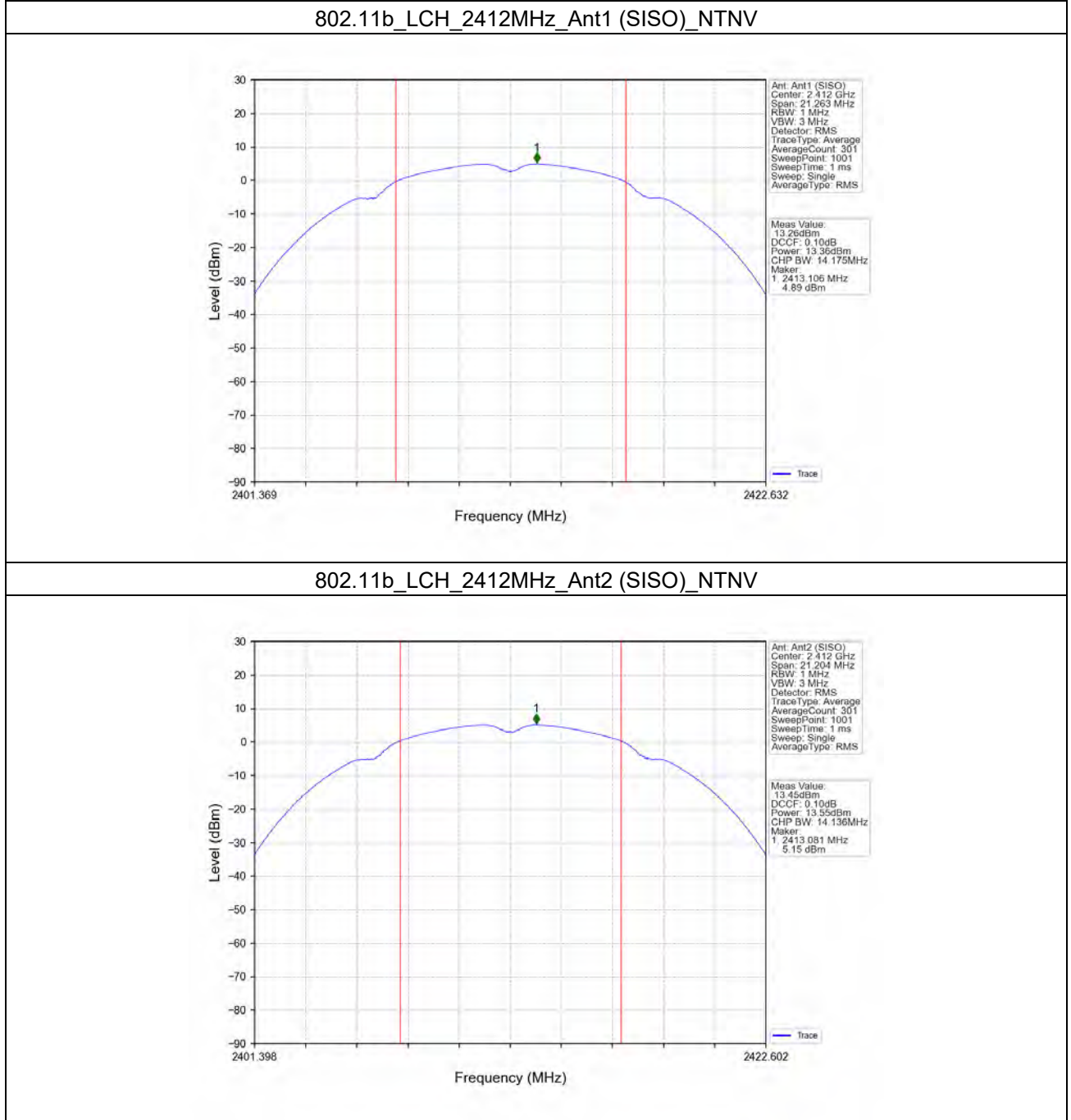
Note2: Directional Gain: 5.28dBi



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### 3.1.2 Test Graph

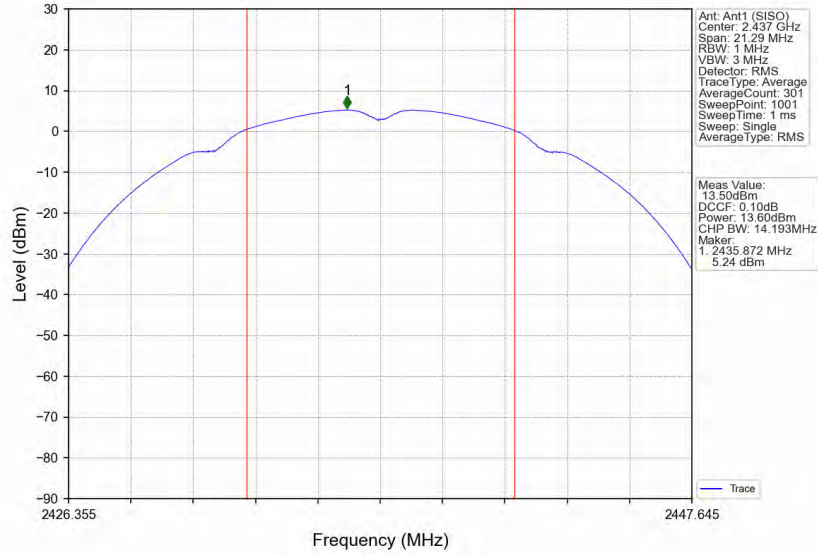


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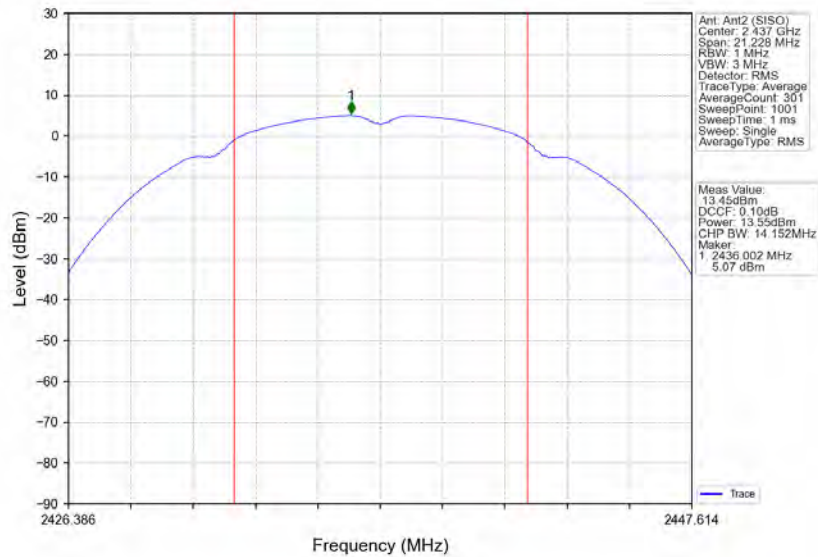
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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV

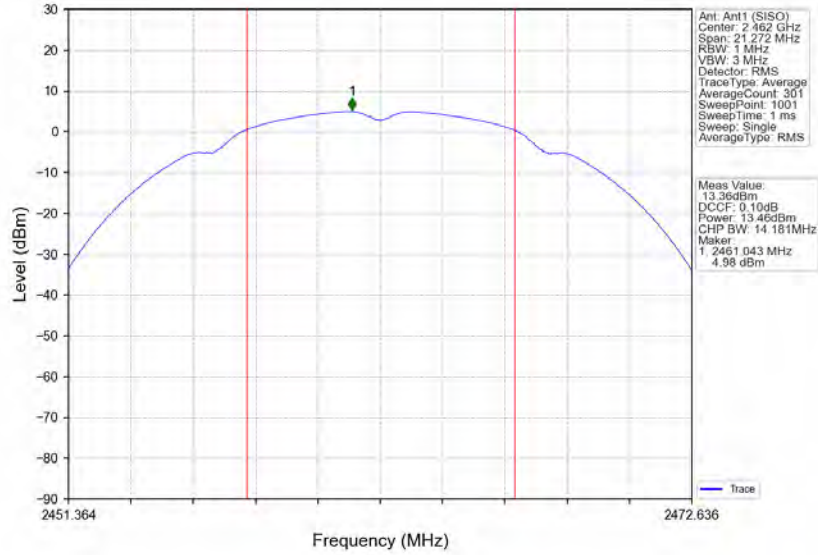


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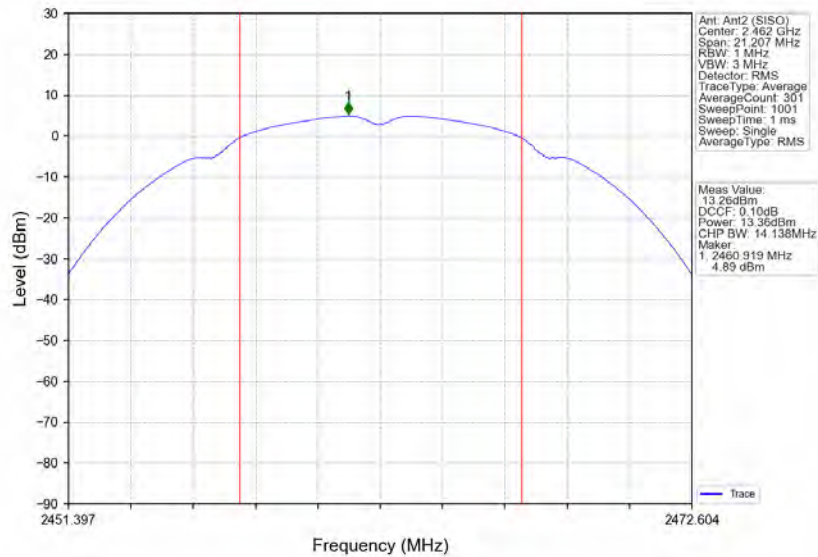
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



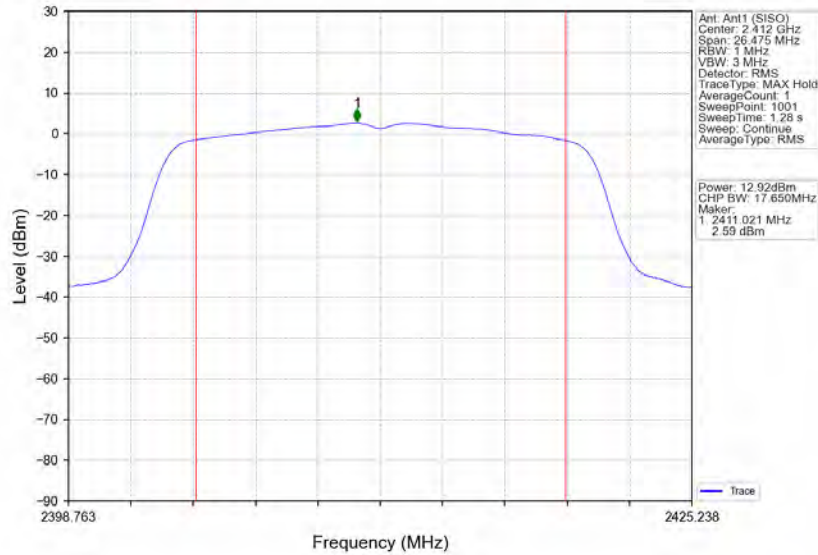
802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



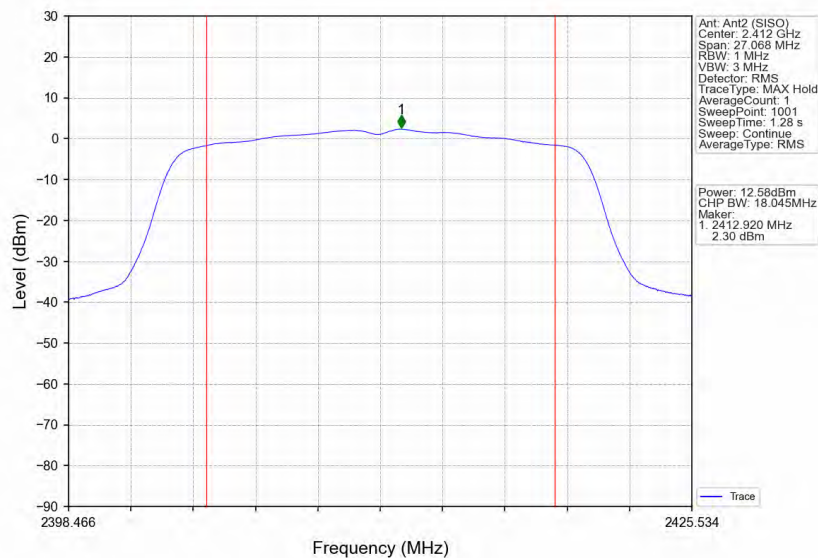
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



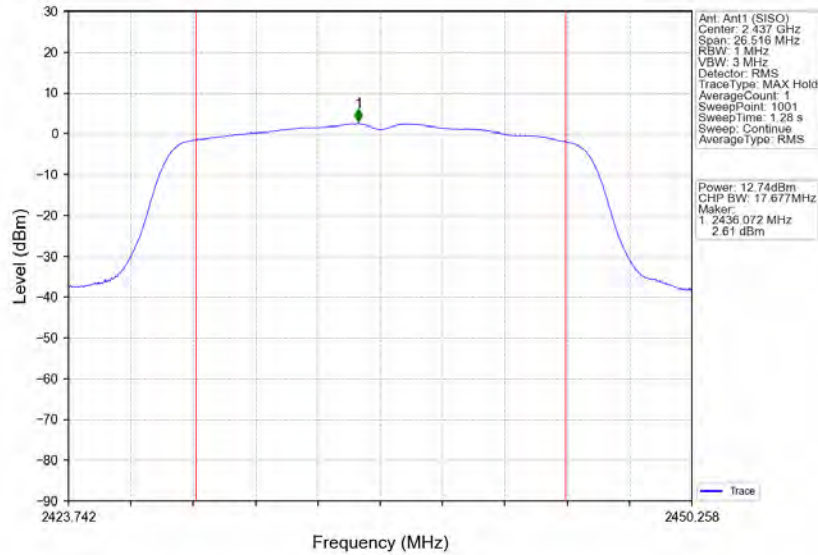
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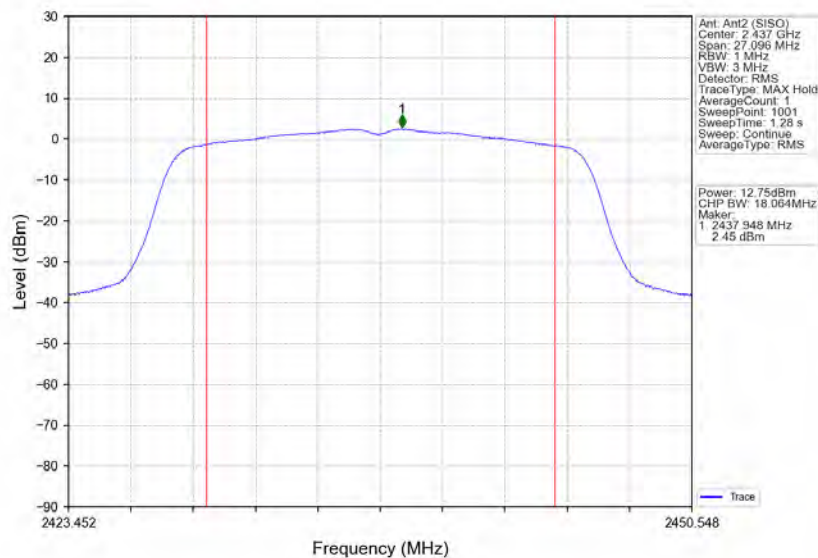
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV

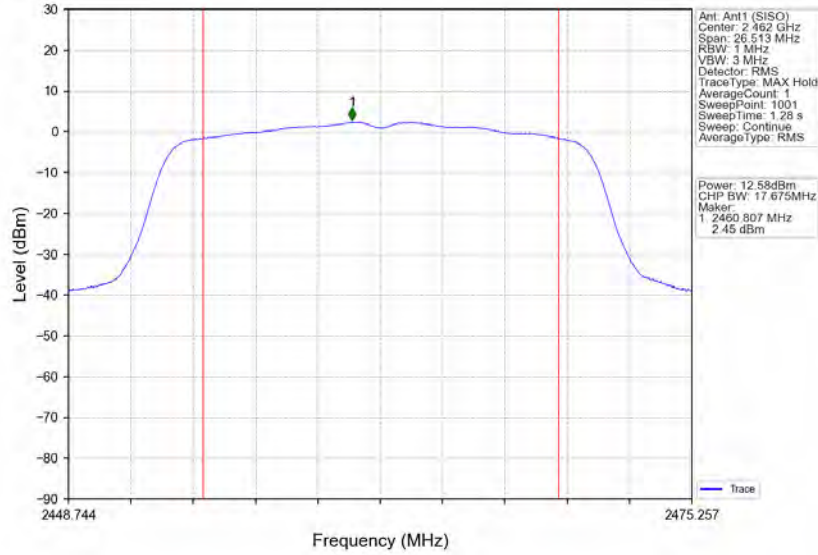


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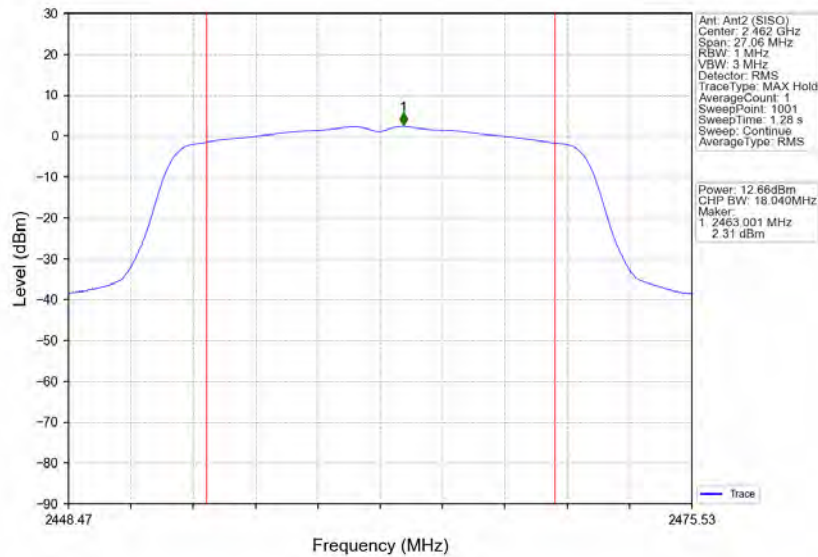
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV

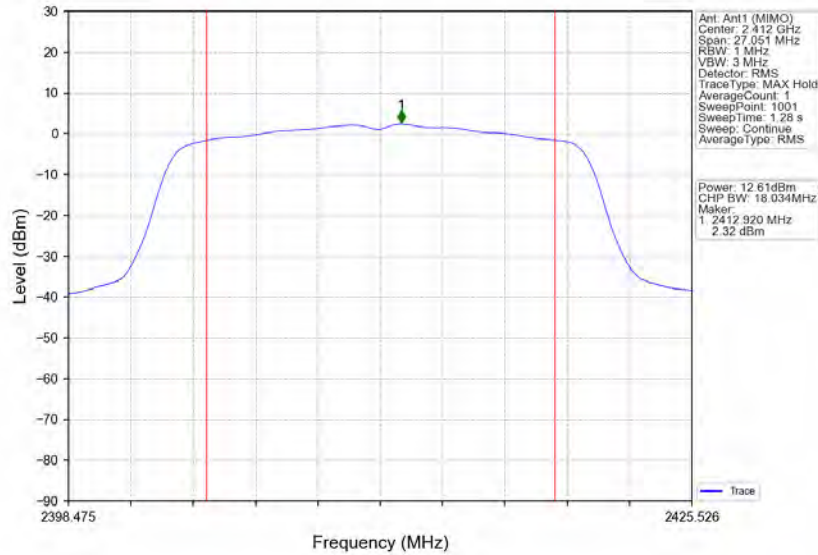


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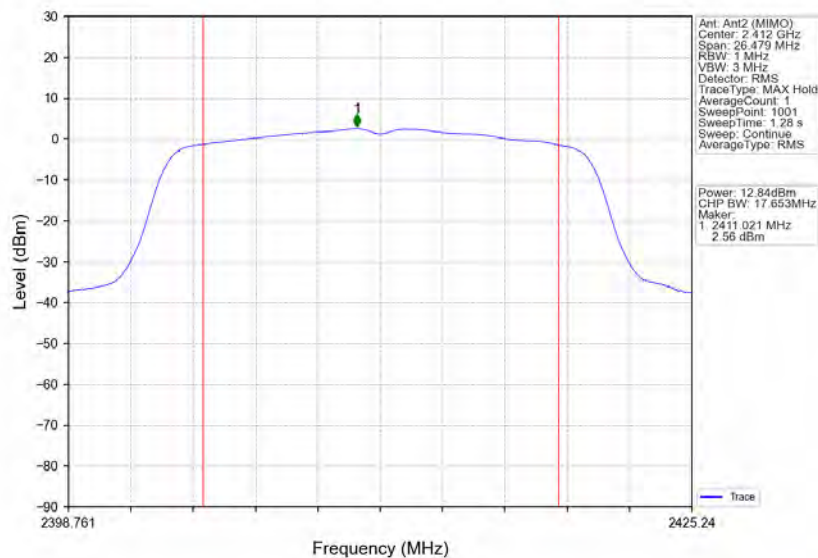
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



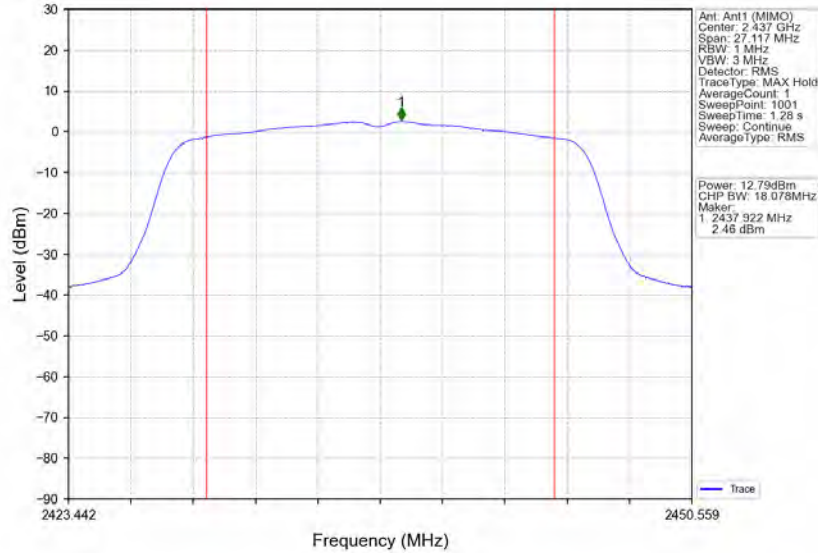
### 802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



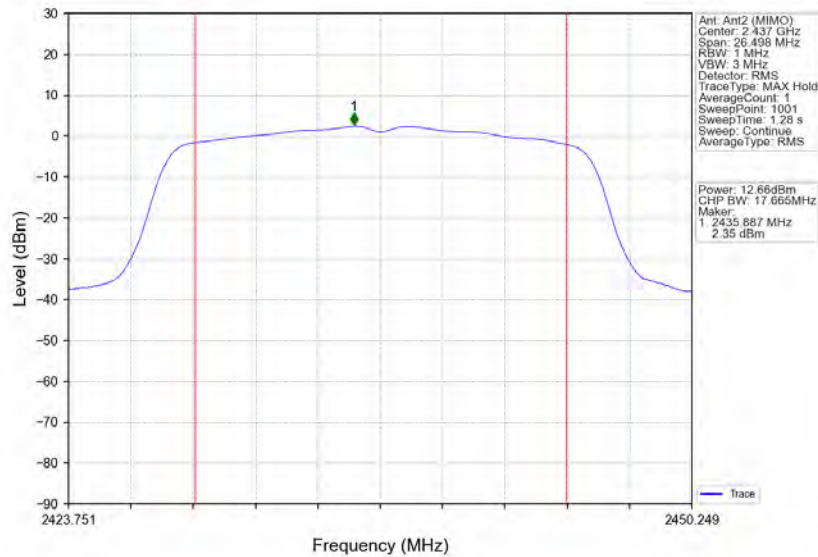
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



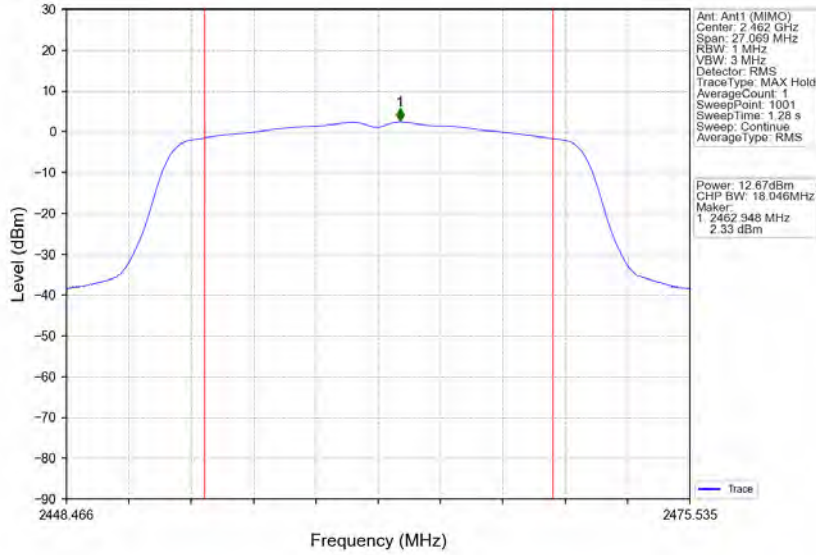
802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



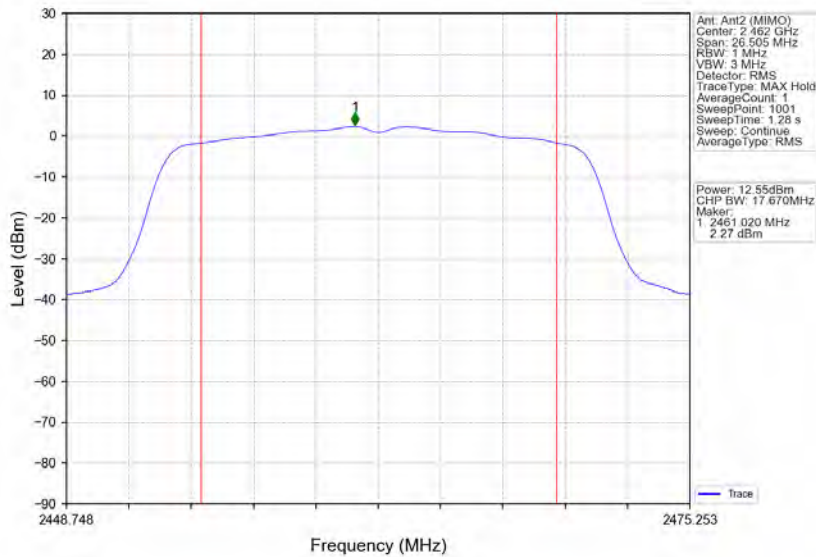
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV

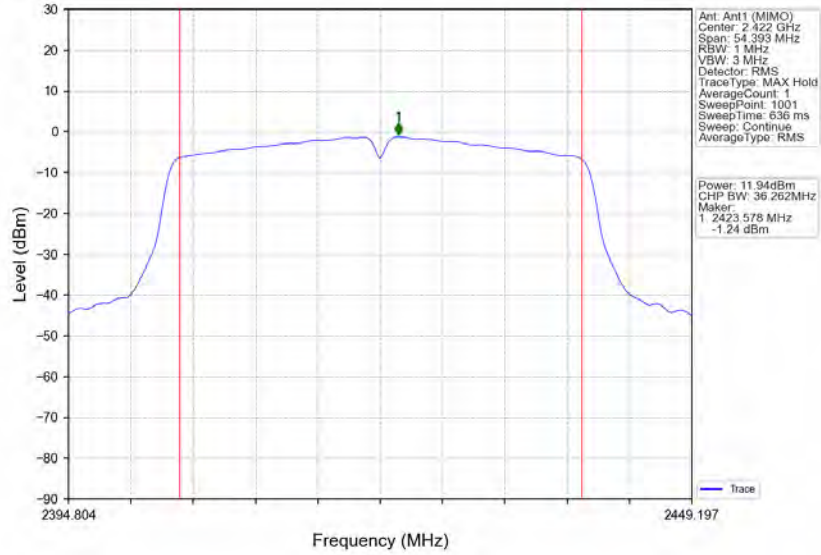


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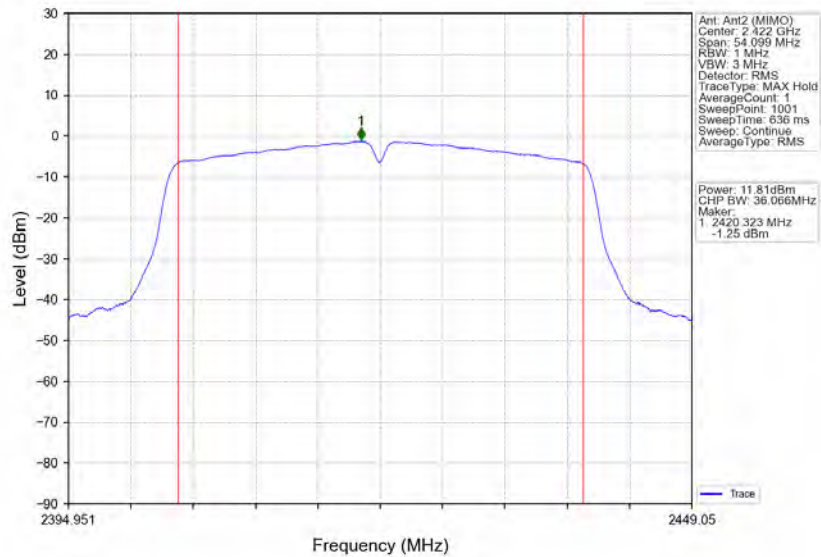
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### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



### 802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV

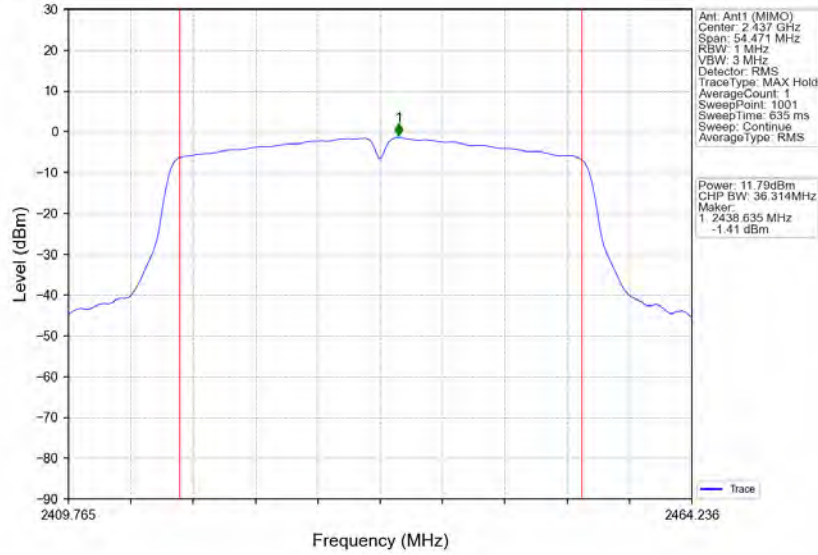


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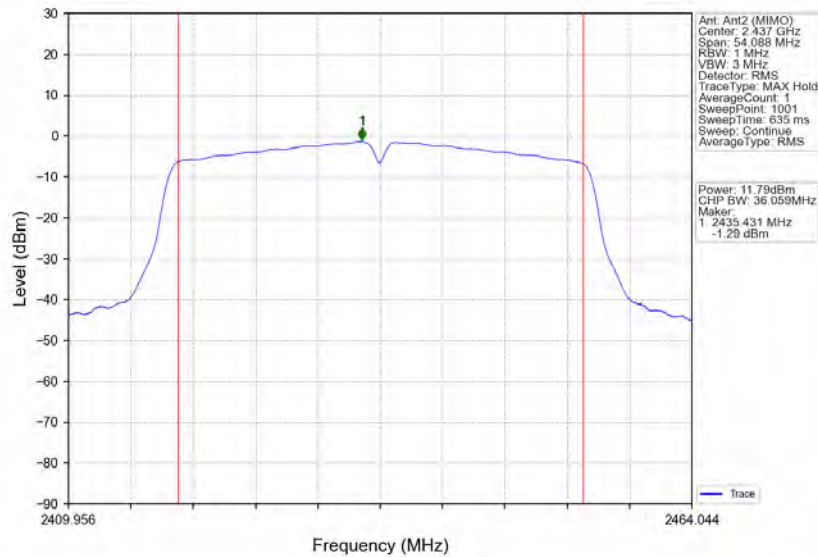
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



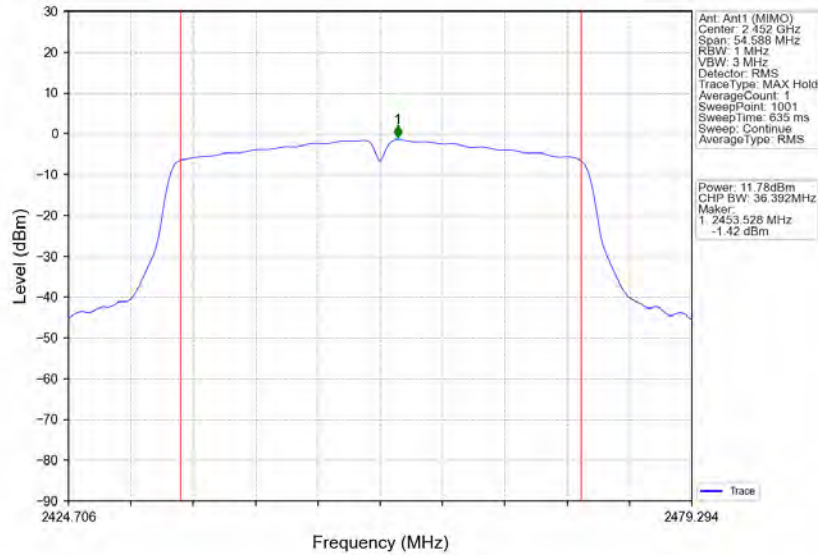
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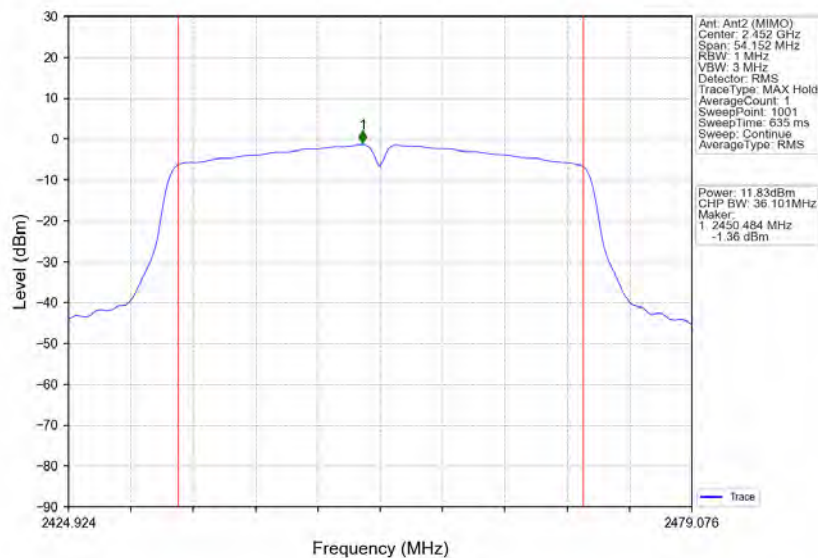
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	2.65	0.78	/	<=8	Pass
		2437	-12.52	0.89	/	<=8	Pass
		2462	0.64	0.55	/	<=8	Pass
802.11g	SISO	2412	-13.63	-14.04	/	<=8	Pass
		2437	-13.24	-13.45	/	<=8	Pass
		2462	-14.31	-14.13	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-14.26	-13.82	-11.24	<=8	Pass
		2437	-13.71	-13.04	-11.34	<=8	Pass
		2462	-13.55	-13.21	-11.08	<=8	Pass
802.11n (HT40)	MIMO	2422	-16.19	-17.06	-14.78	<=8	Pass
		2437	-16.44	-16.77	-14.68	<=8	Pass
		2452	-17.99	-16.82	-15.09	<=8	Pass

Note1: Antenna Gain: Ant1: 1.70dBi; Ant2: 2.77dBi;  
 Note2: Directional Gain: 5.28dBi

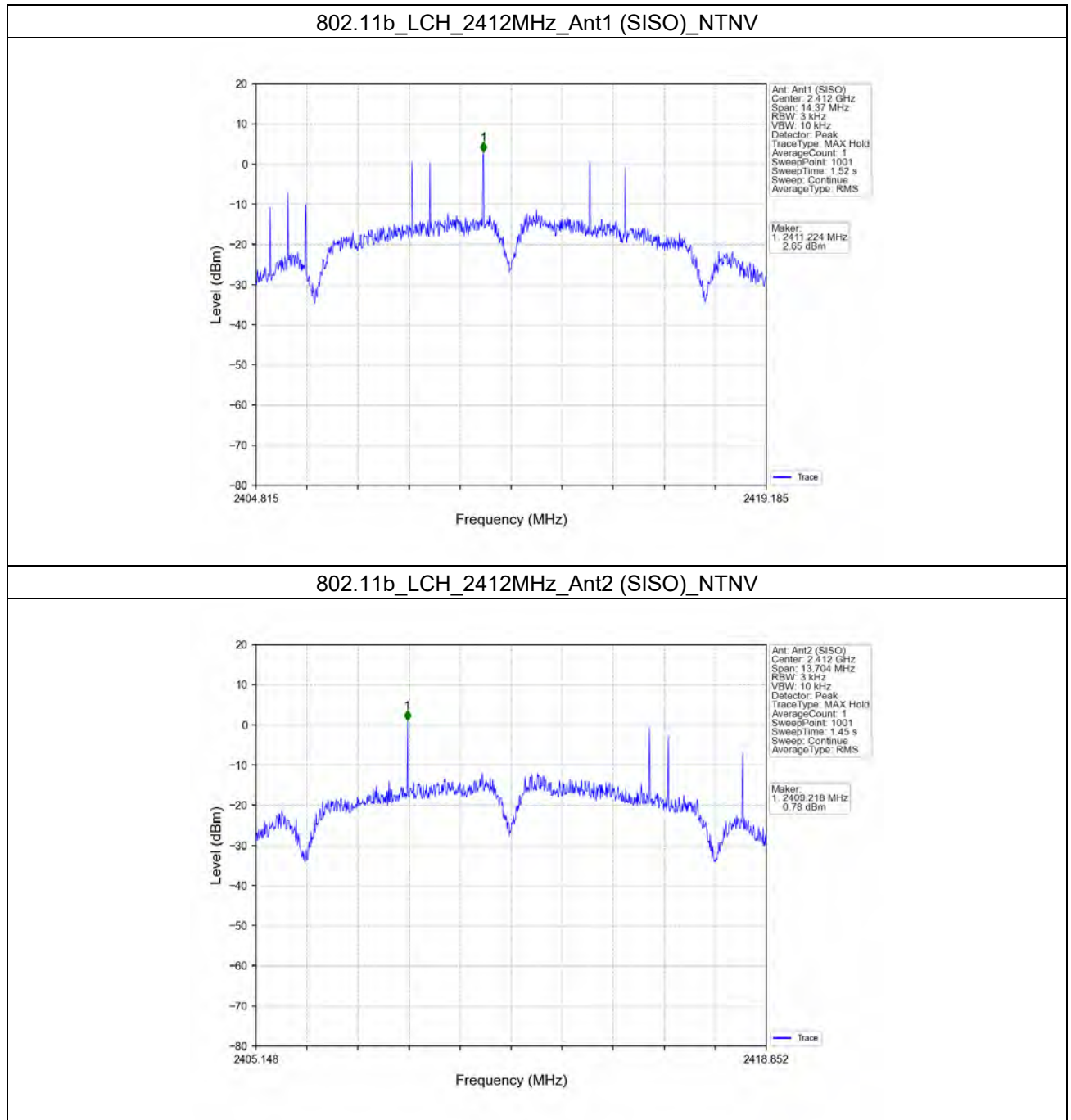


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### 4.1.2 Test Graph

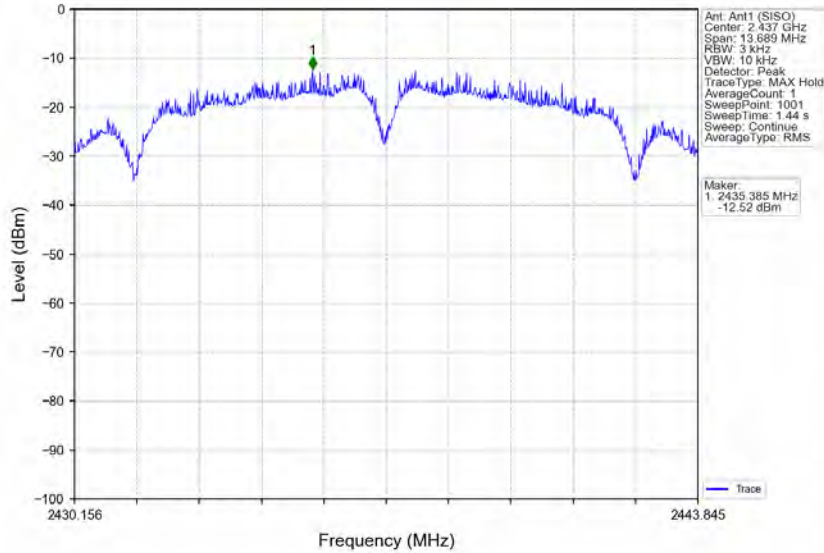


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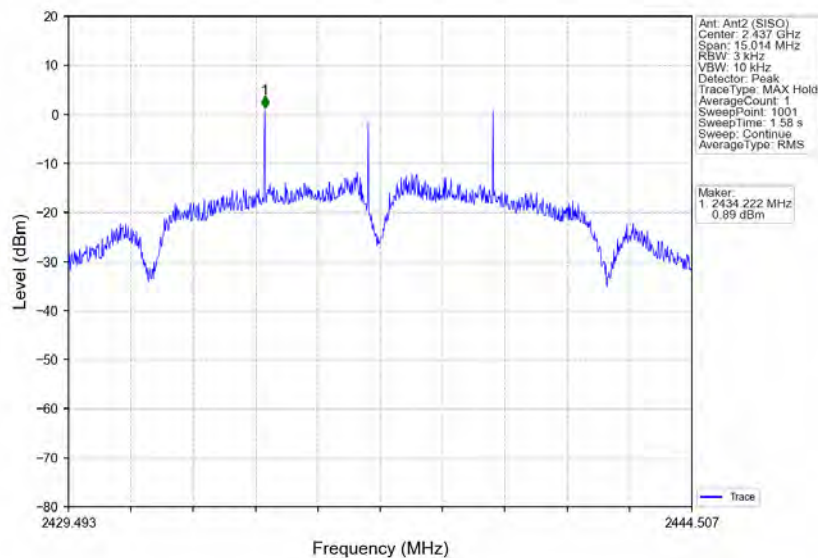
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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



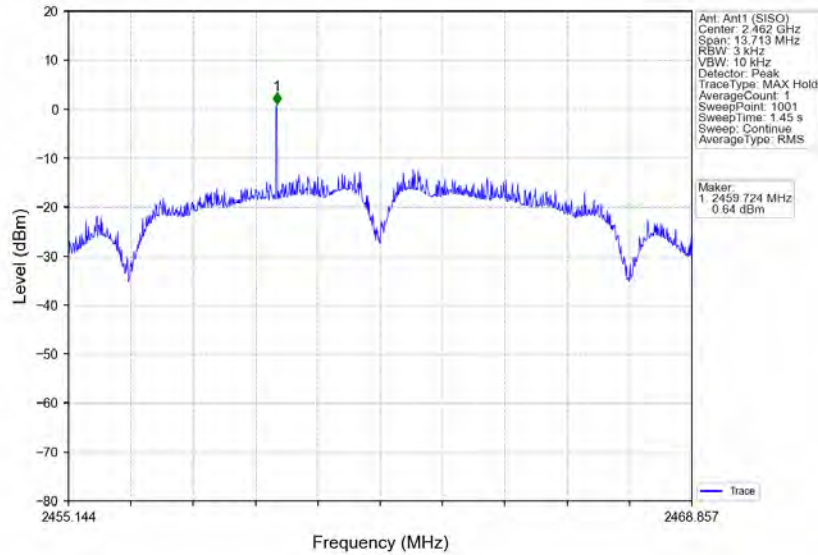
802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



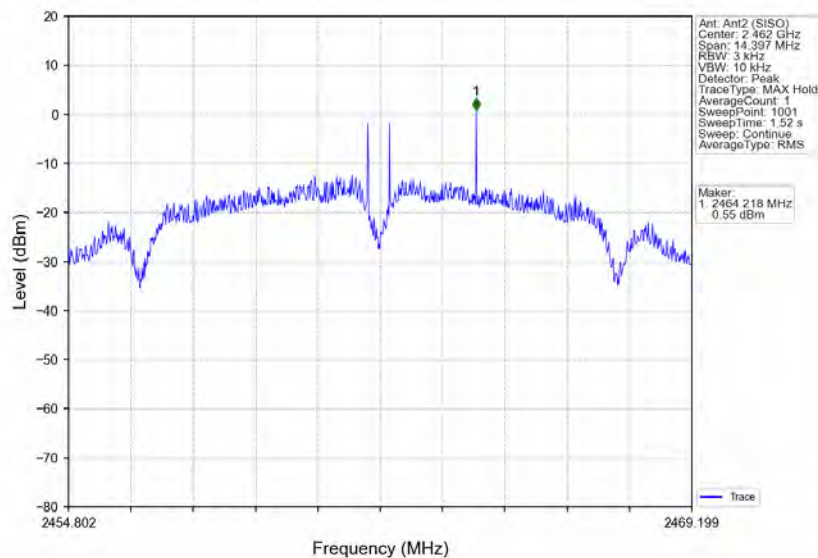
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



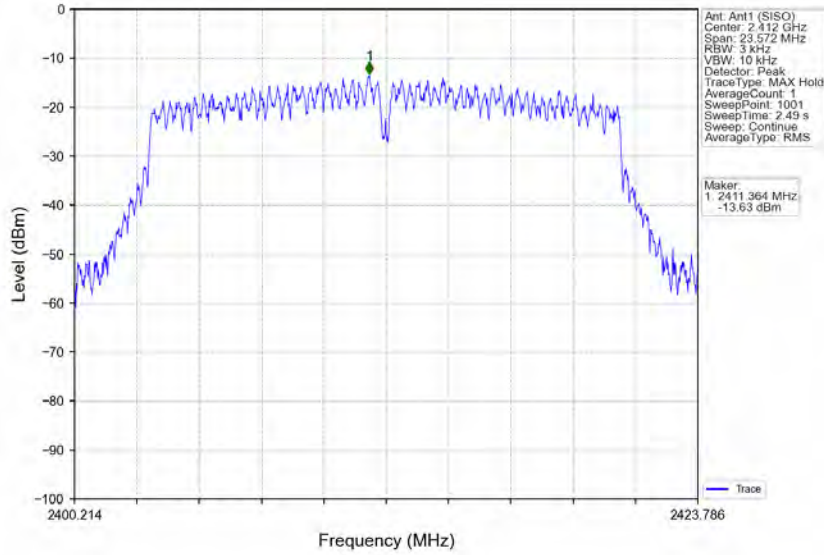
802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



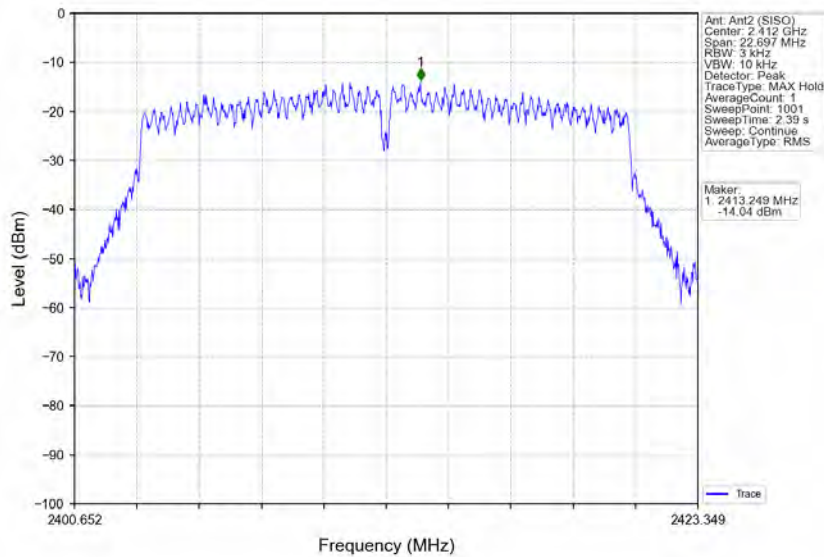
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV

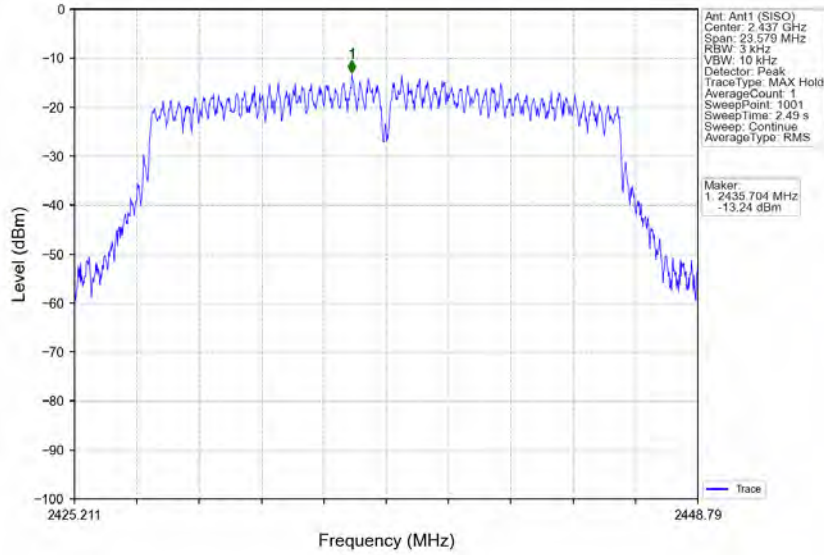


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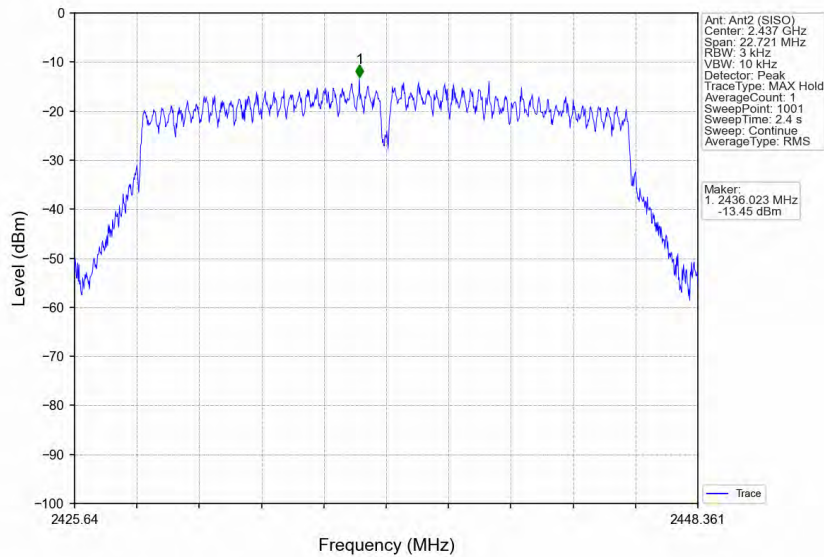
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV

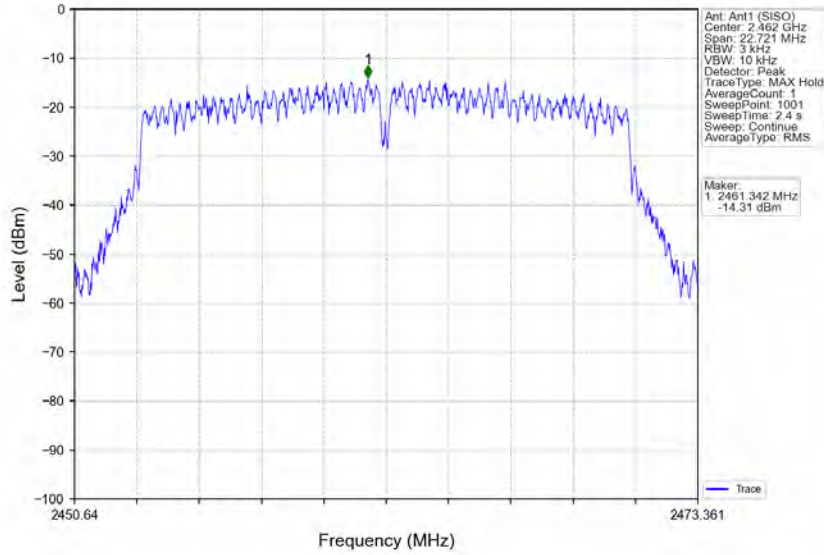


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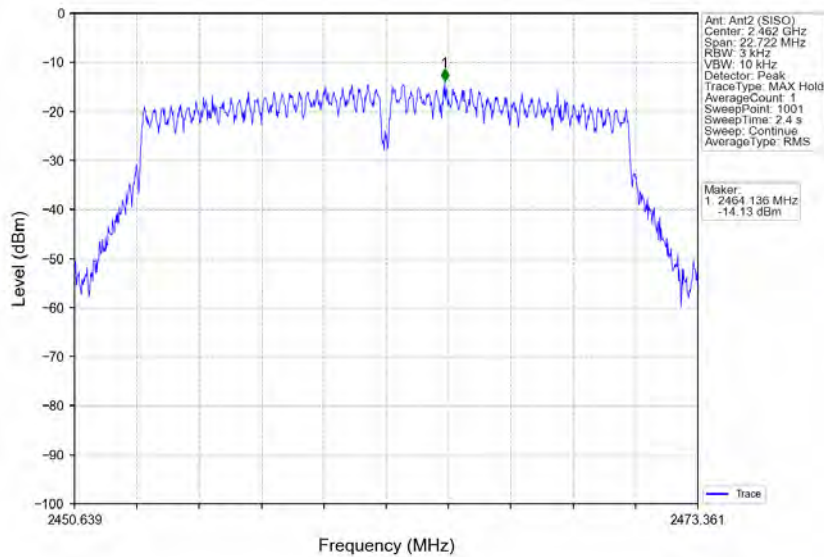
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



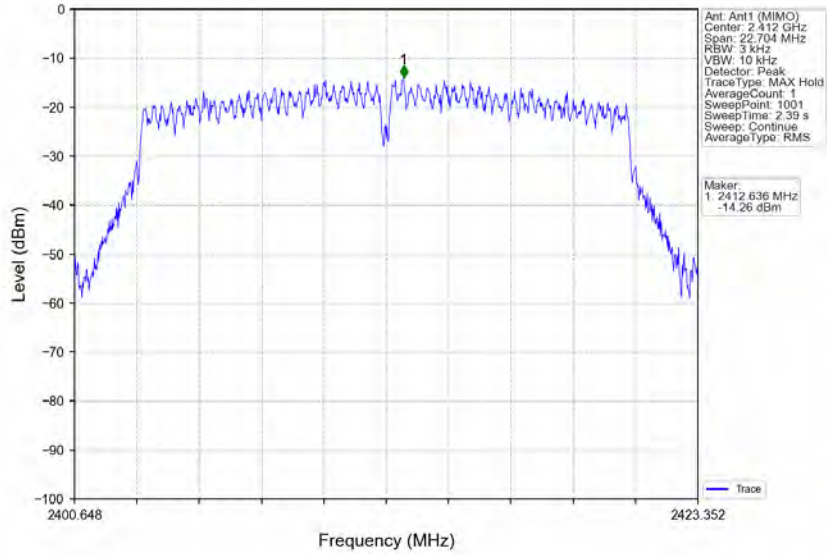
802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



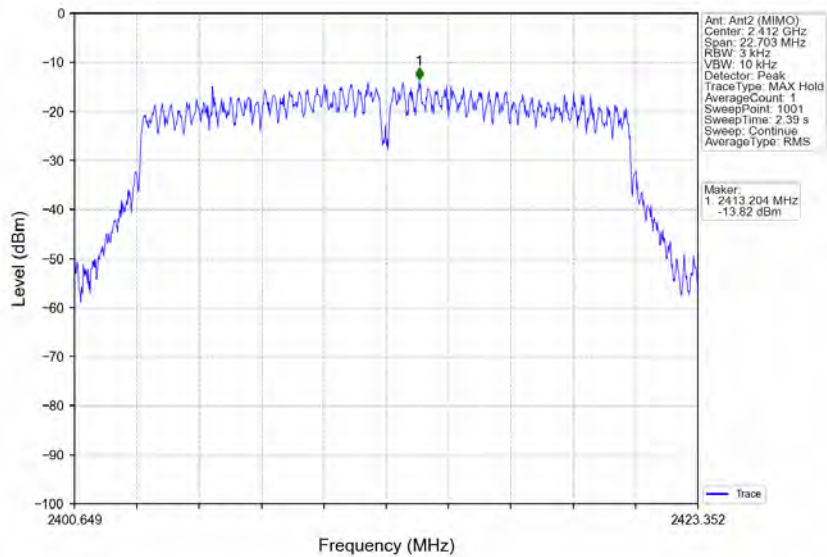
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



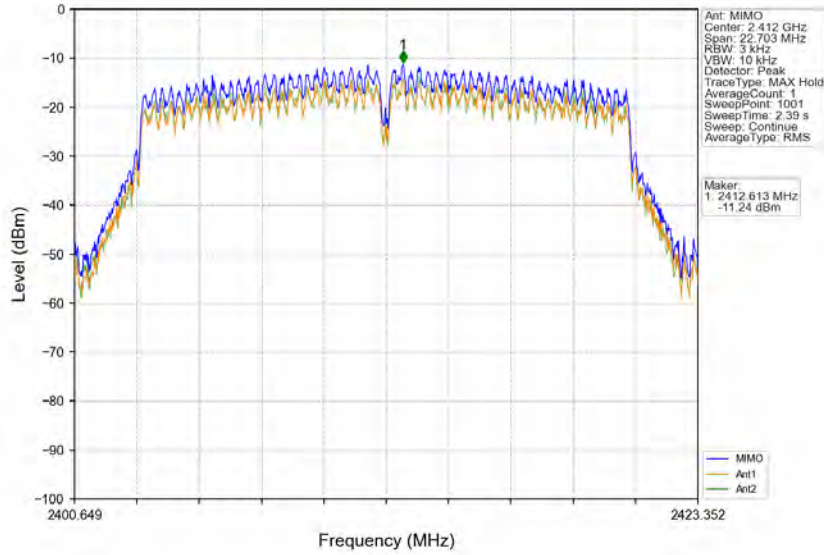
802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



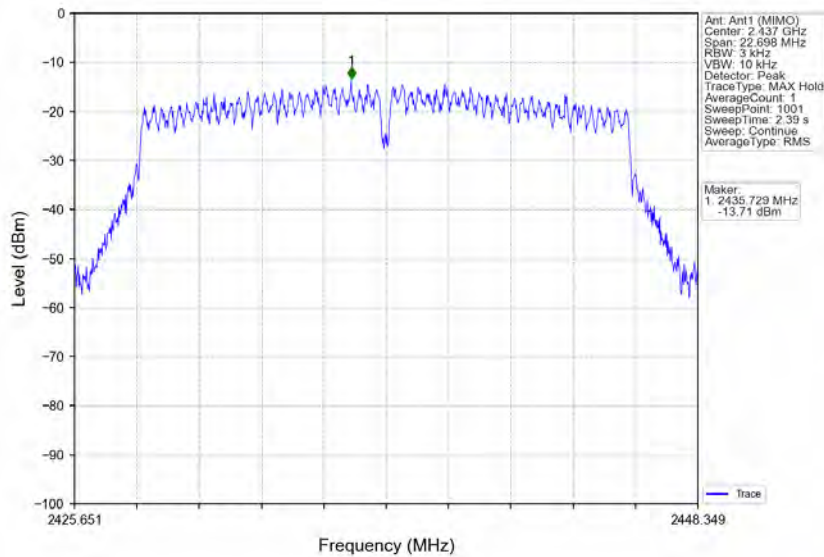
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802.11n(HT20)\_LCH\_2412MHz\_MIMO\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV

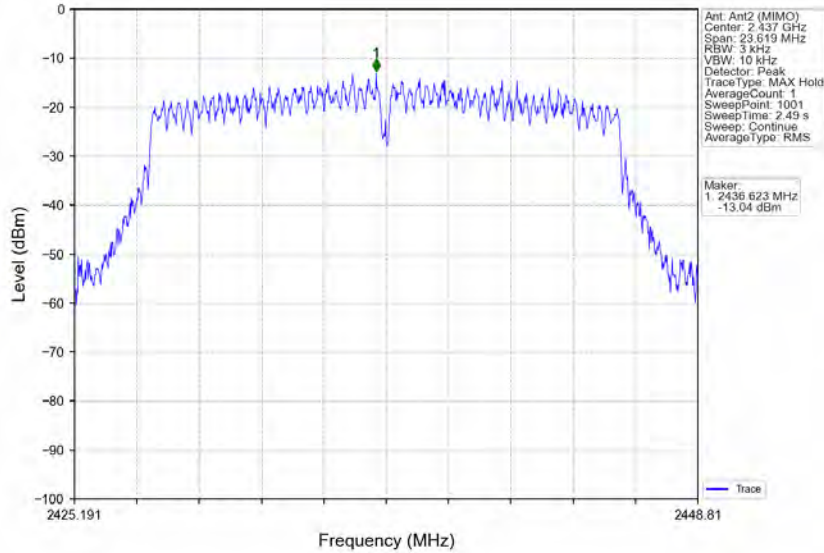


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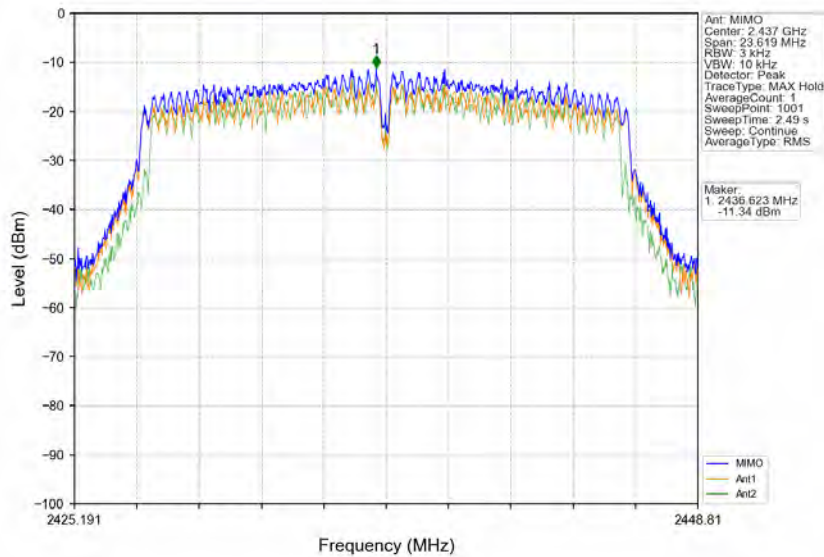
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802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_MIMO\_NTNV

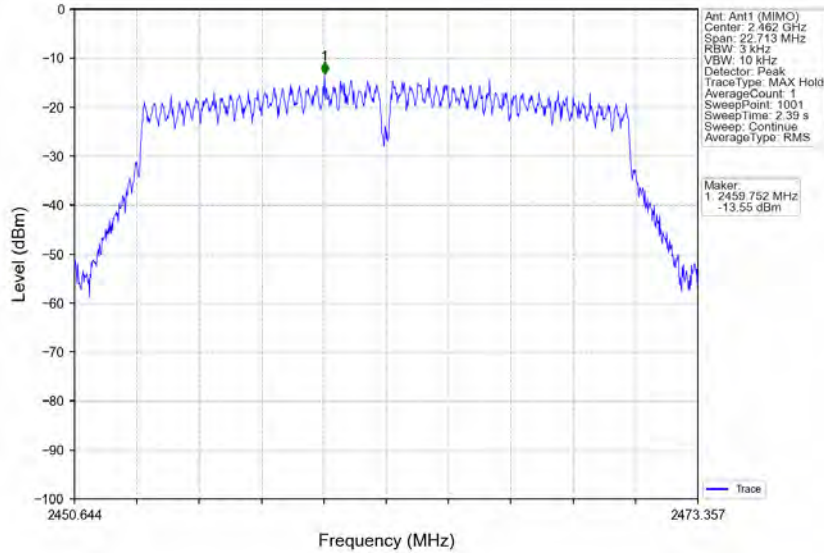


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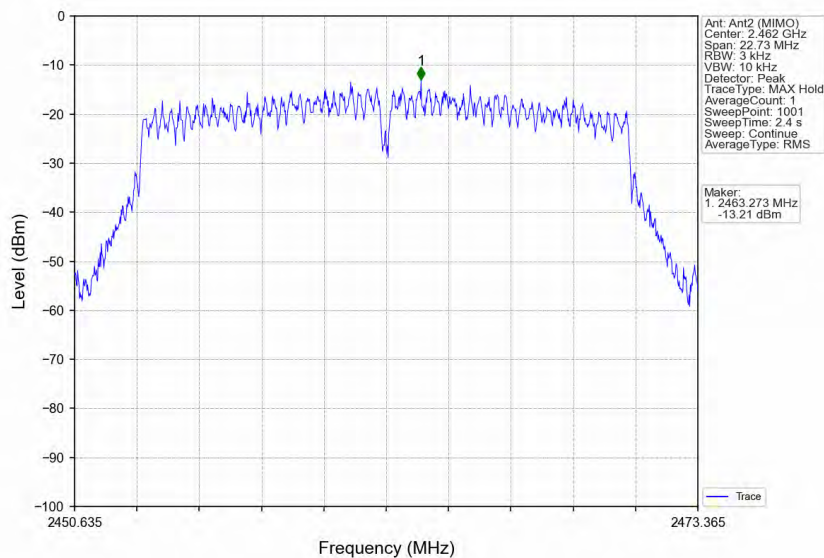
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



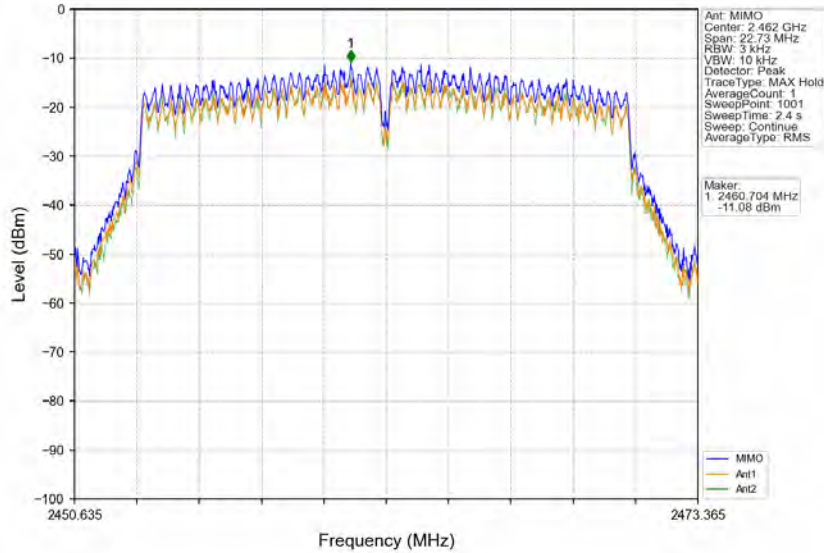
802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



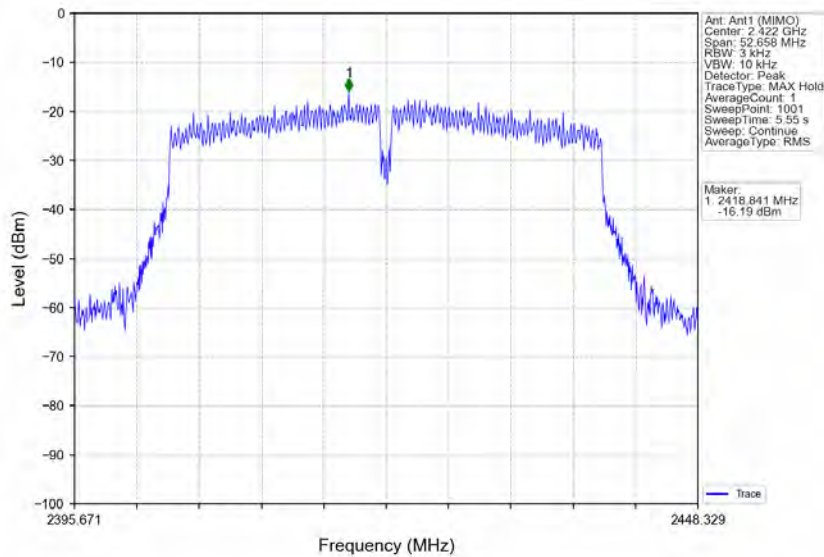
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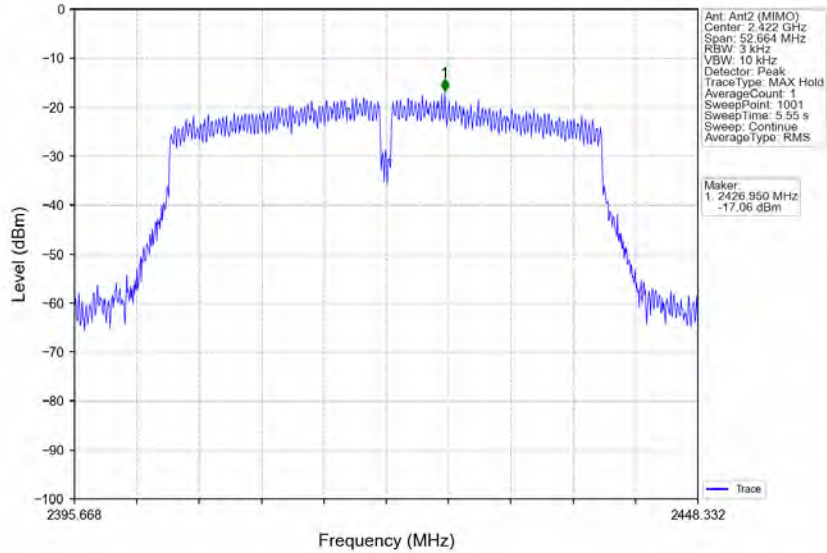
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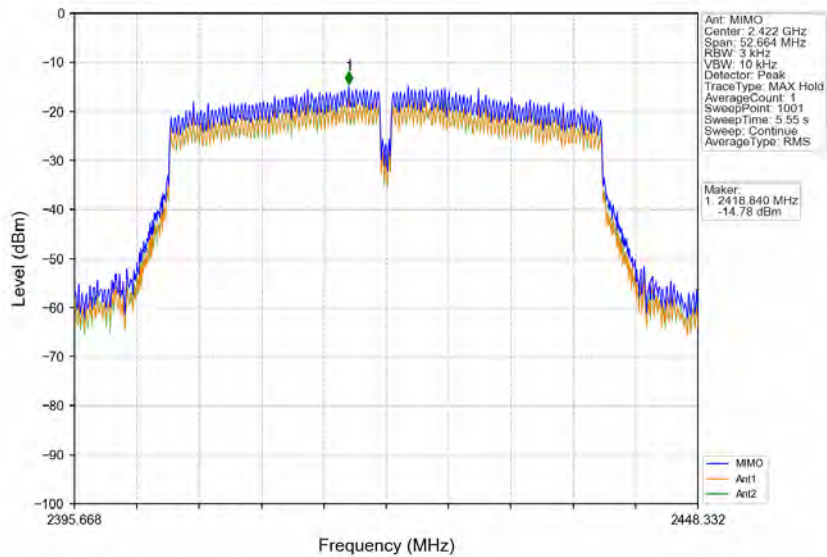
### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_MIMO\_NTNV

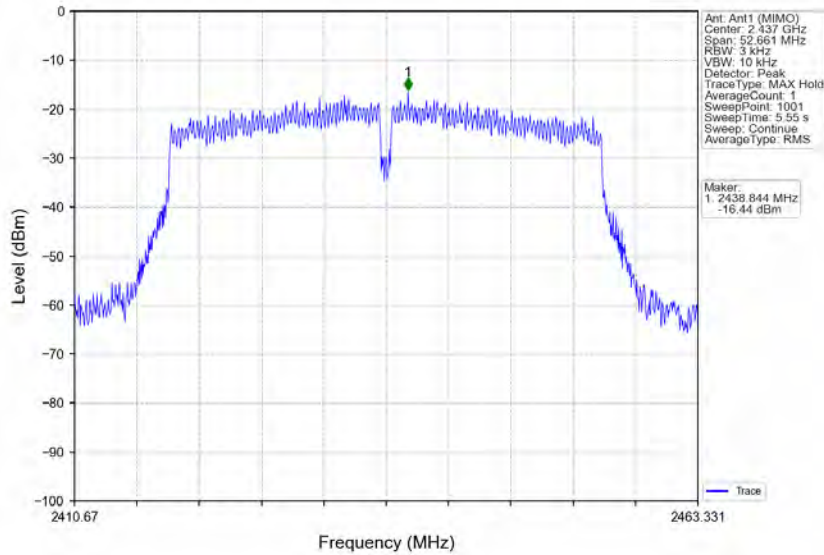


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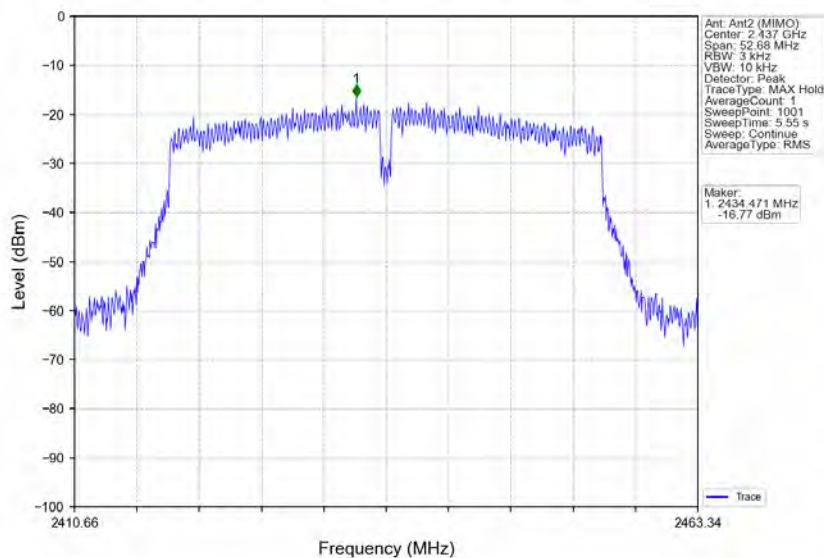
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV

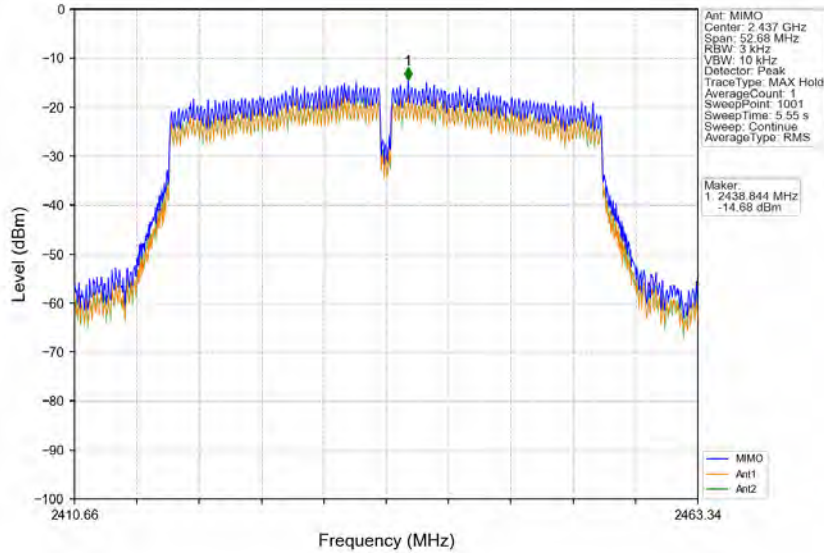


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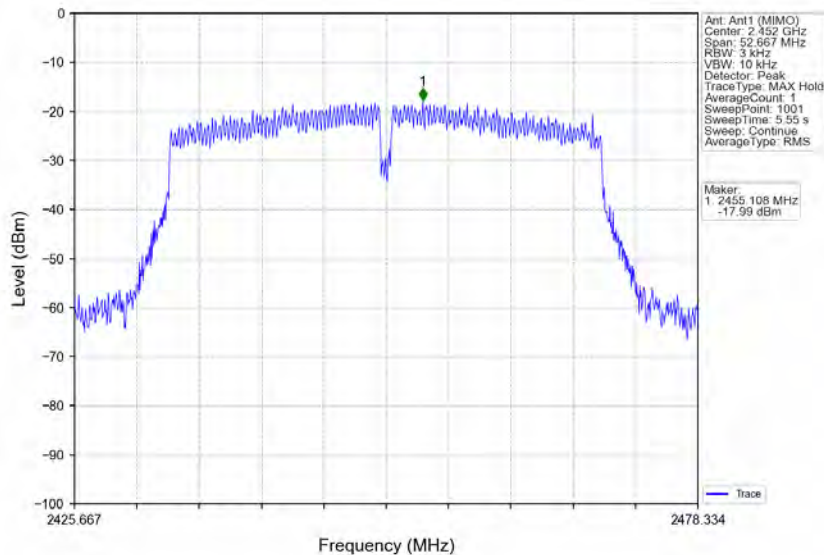
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### 802.11n(HT40)\_MCH\_2437MHz\_MIMO\_NTNV



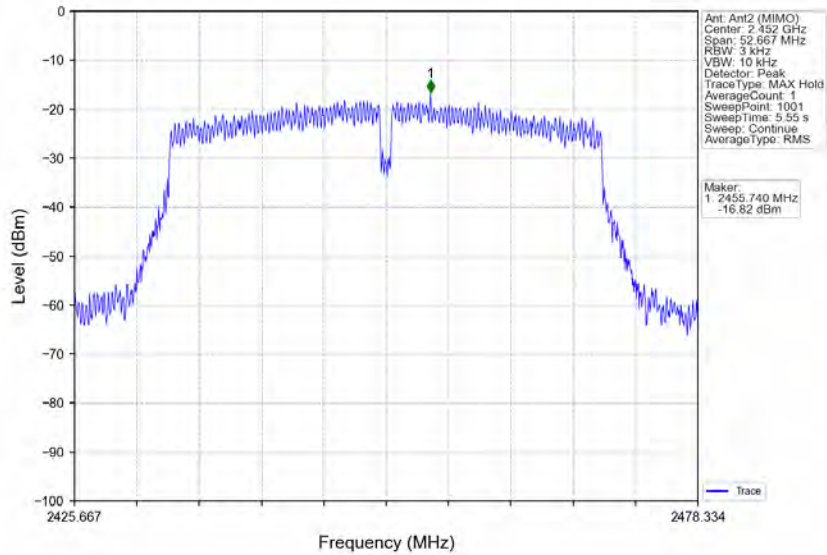
### 802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



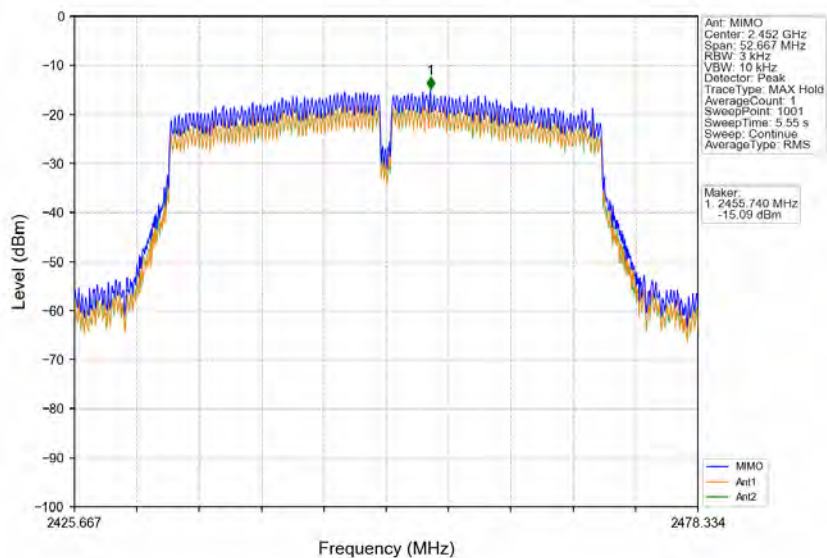
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802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_MIMO\_NTNV



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**5. Unwanted Emissions InStandard Non-restricted Frequency Bands**

**5.1 Ref**

**5.1.1 Test Result**

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	3.81
			2	4.24
		2437	1	4.11
			2	4.08
		2462	1	4.22
			2	3.98
802.11g	SISO	2412	1	2.89
			2	3.30
		2437	1	2.57
			2	2.69
		2462	1	2.52
			2	3.24
802.11n (HT20)	MIMO	2412	1	3.44
			2	2.88
		2437	1	3.04
			2	2.64
		2462	1	3.20
			2	2.52
802.11n (HT40)	MIMO	2422	1	-0.58
			2	-0.60
		2437	1	-0.93
			2	-0.89
		2452	1	-0.66
			2	-0.73

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

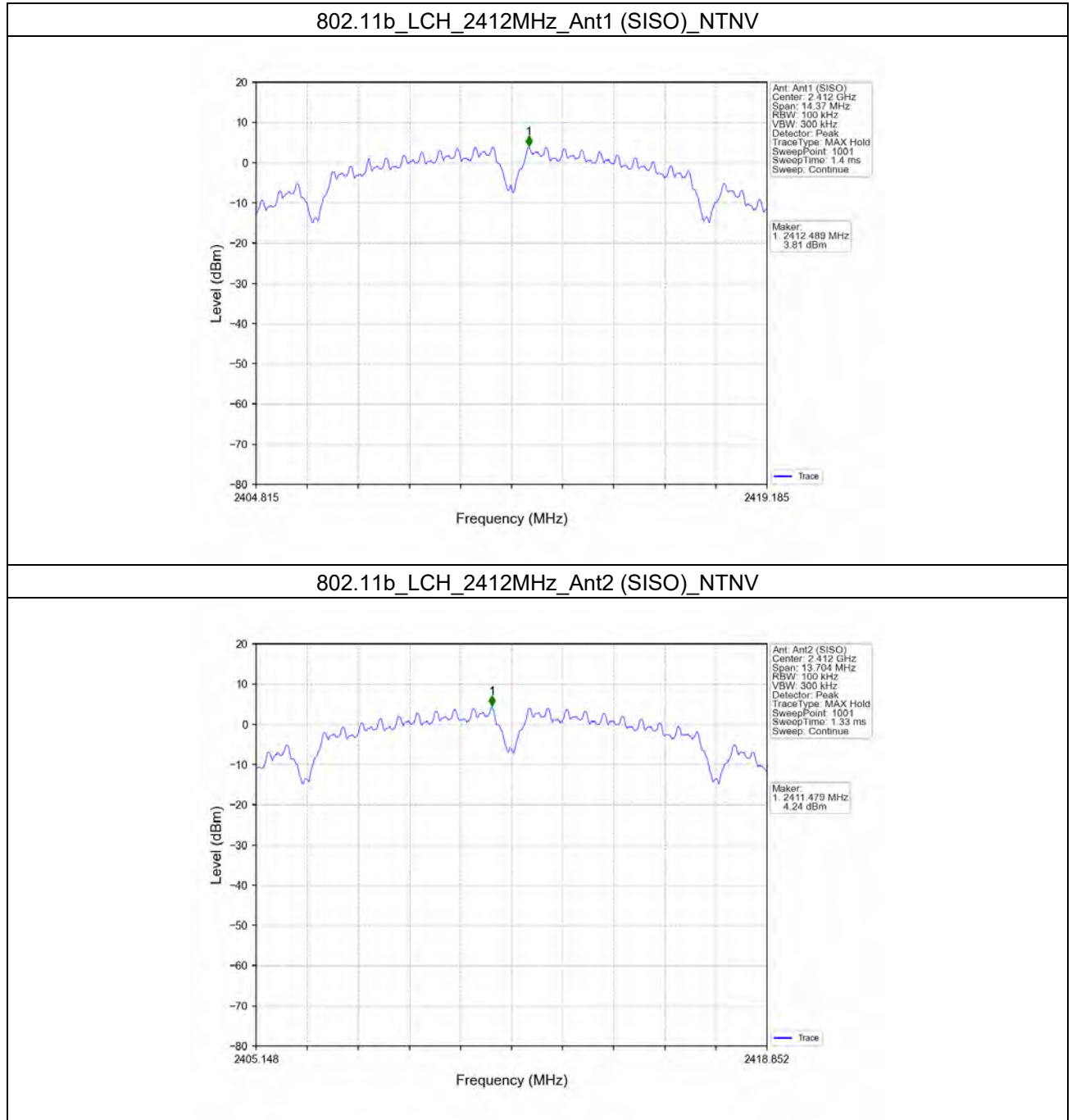


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### 5.1.2 Test Graph

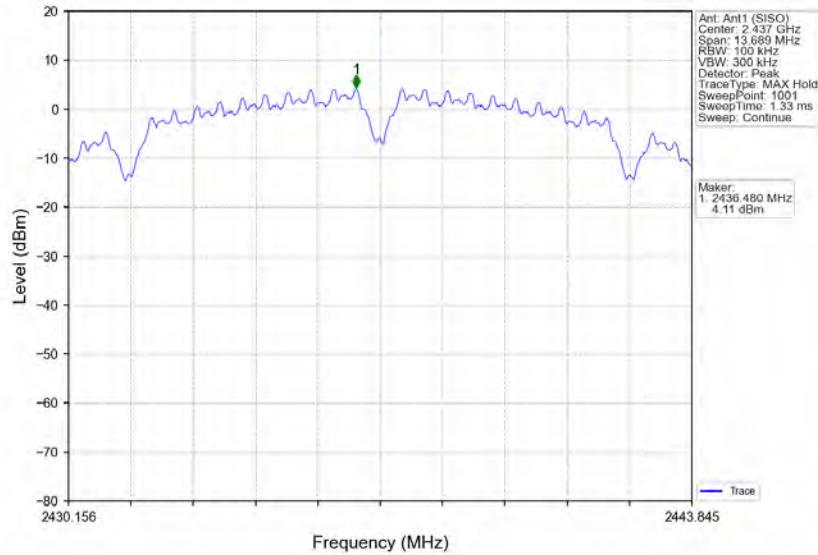


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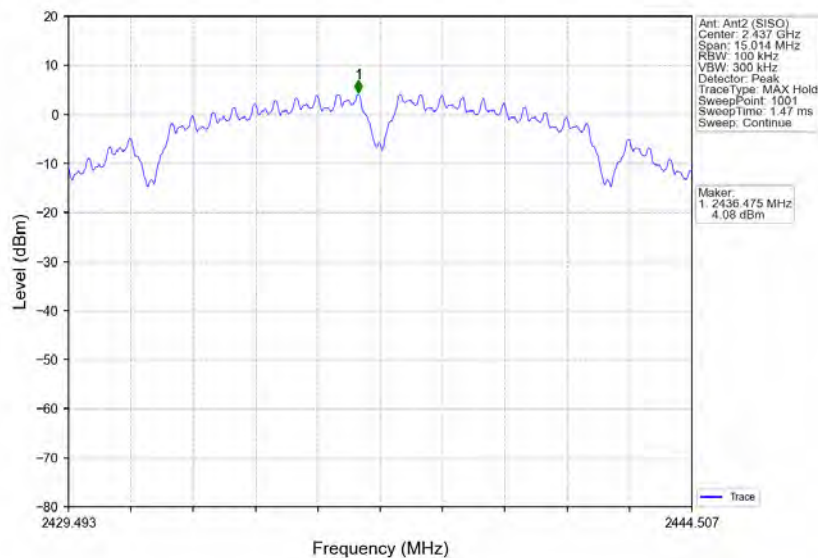
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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



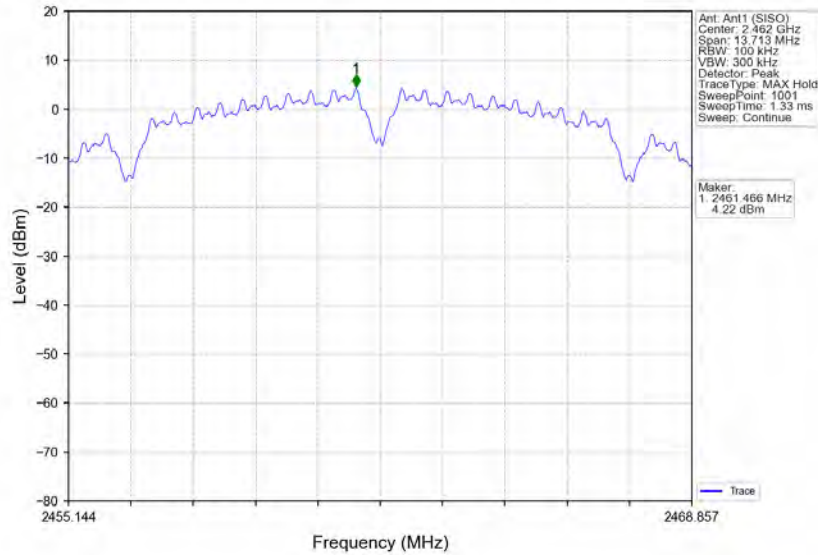
802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



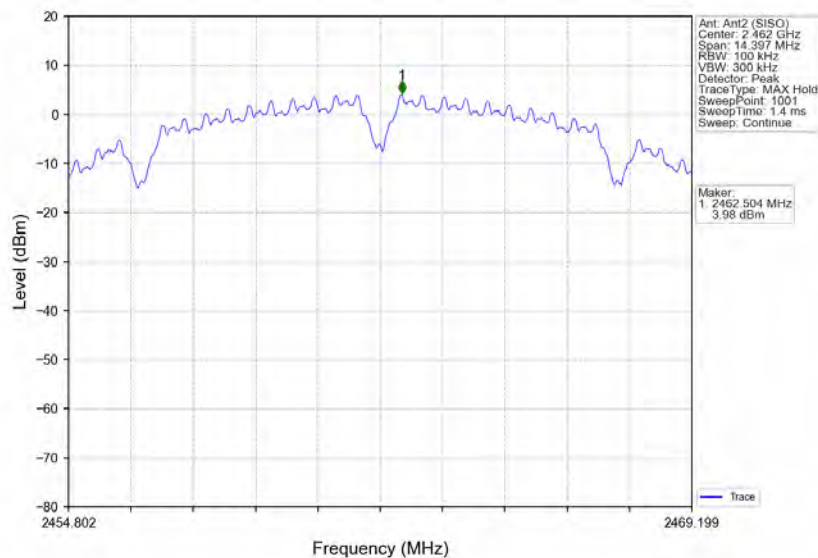
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



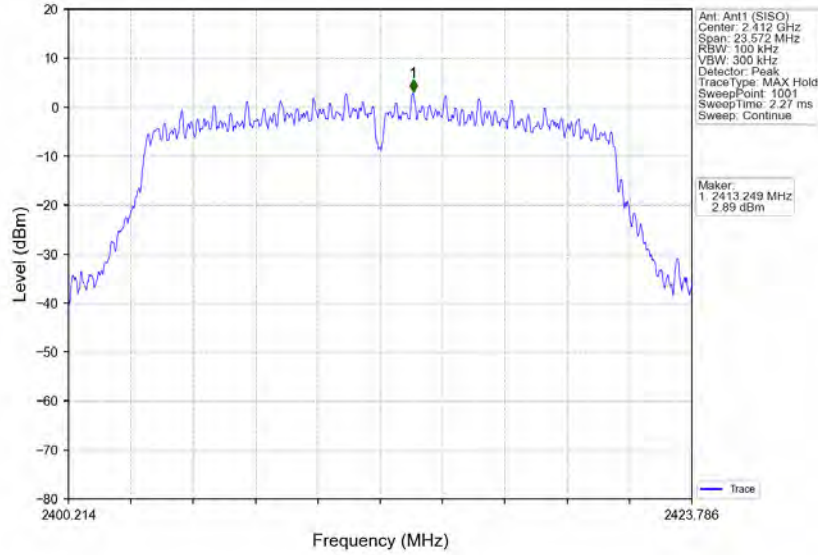
802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



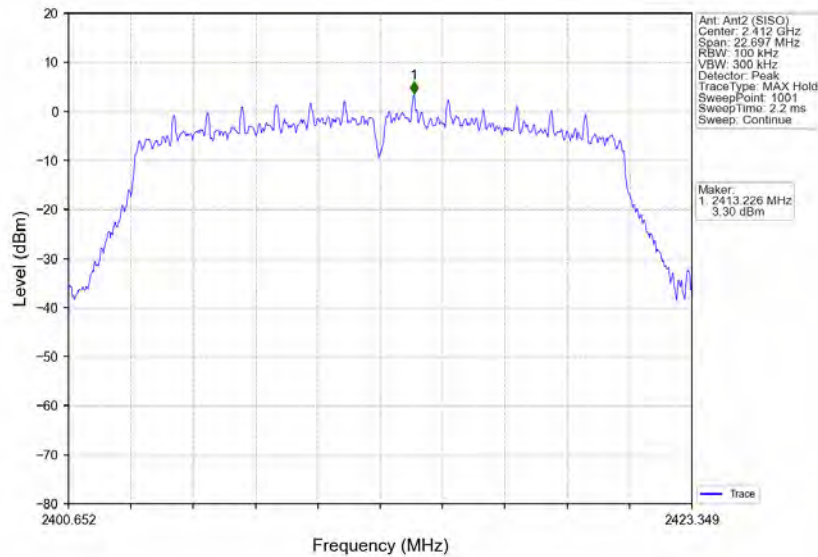
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV

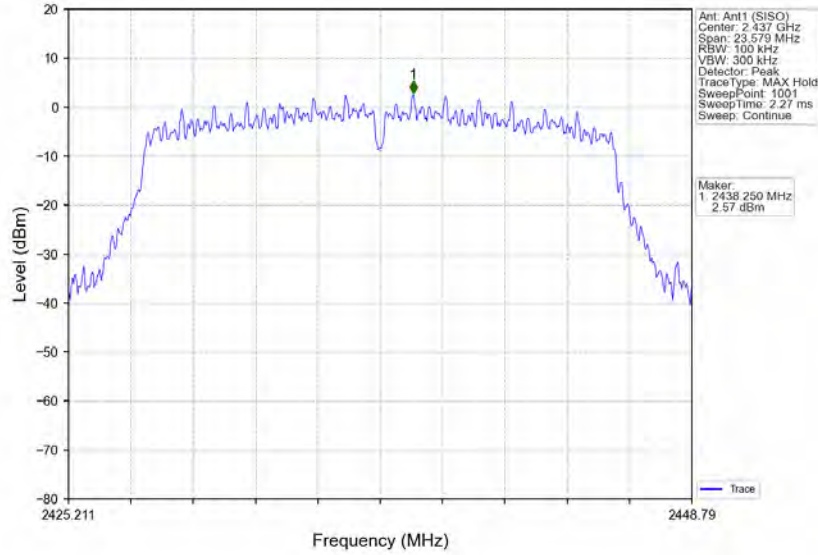


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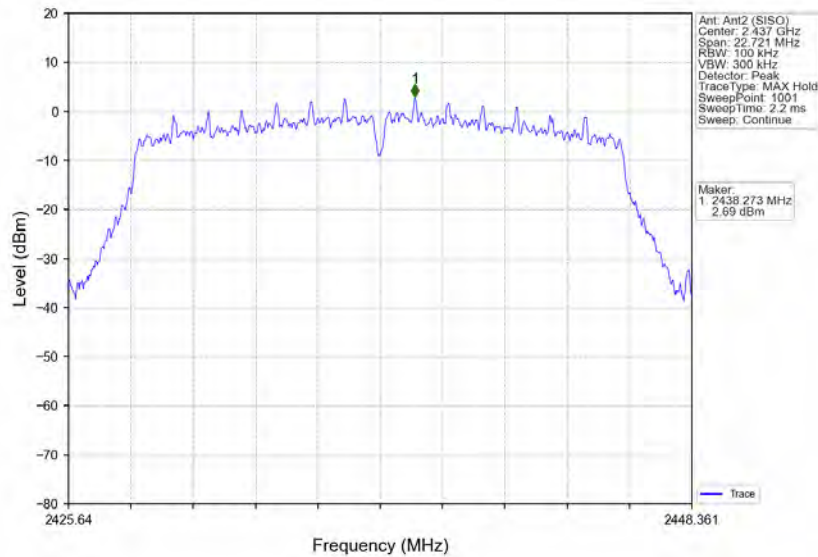
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV

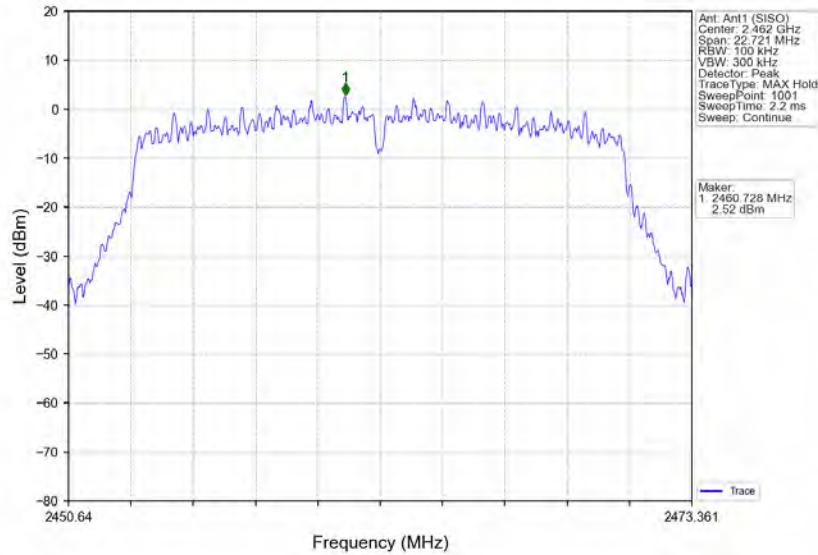


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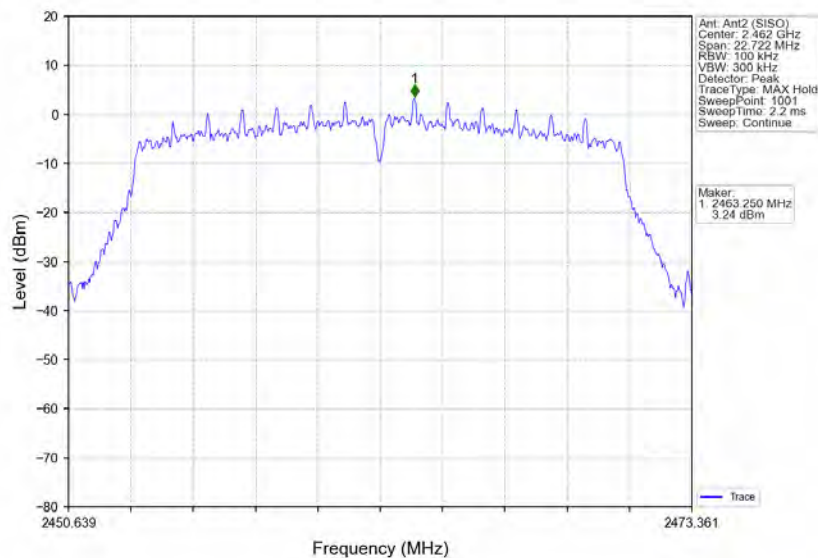
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



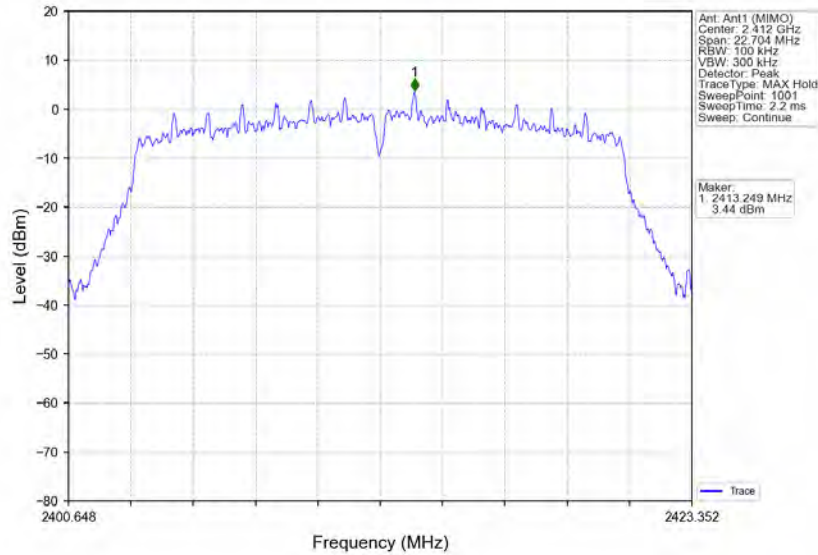
802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



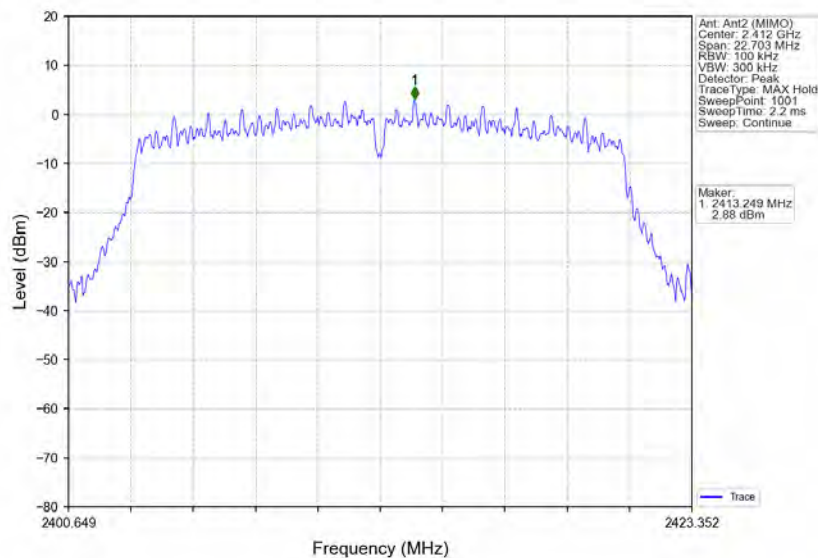
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



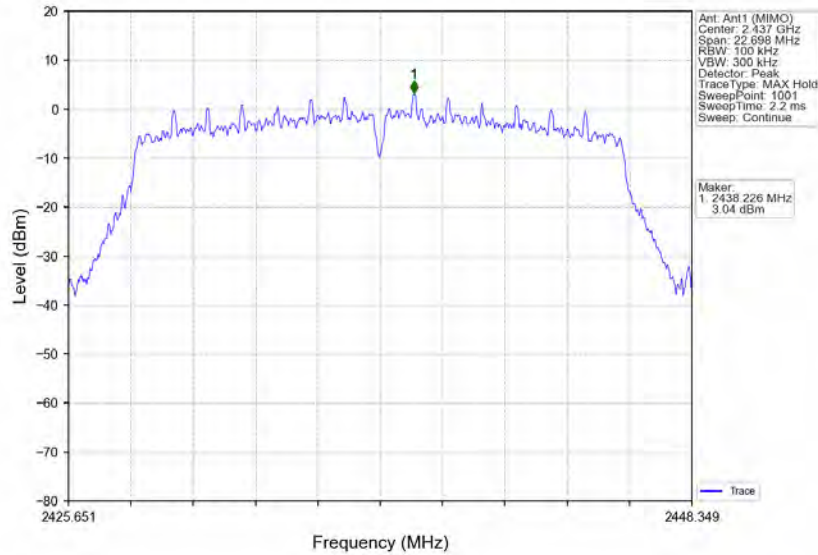
802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



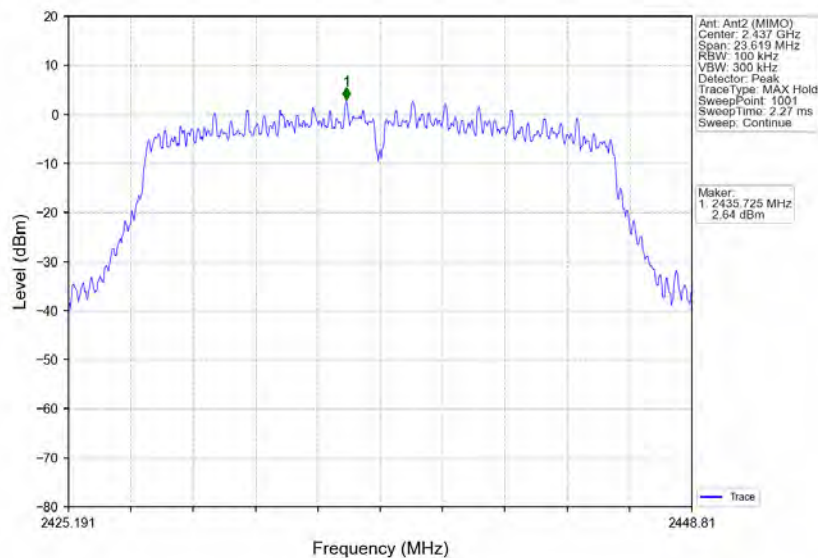
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV

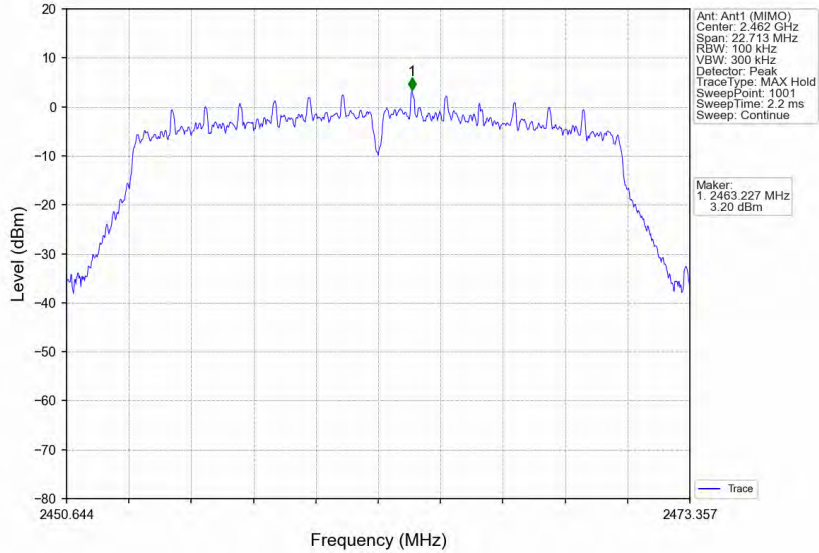


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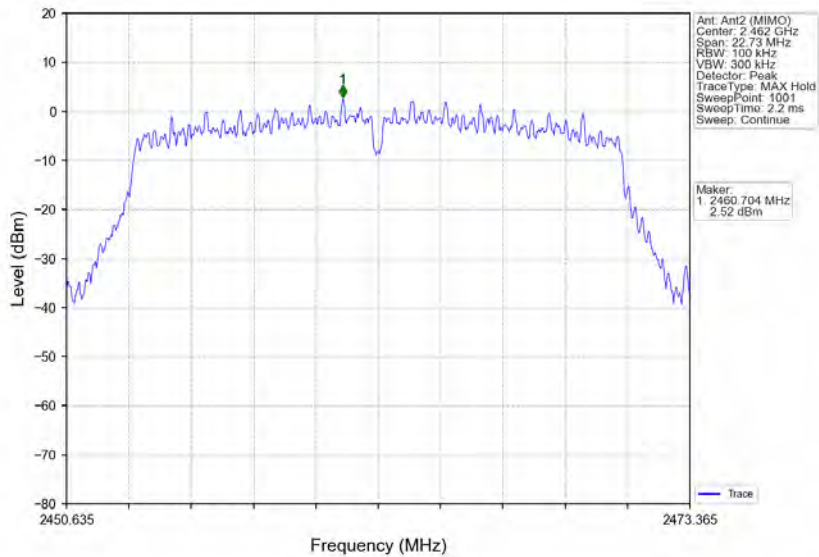
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV

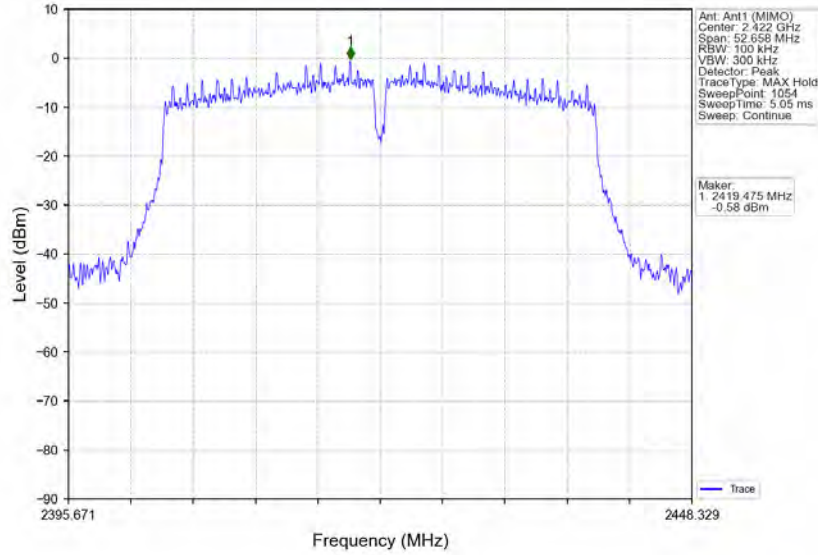


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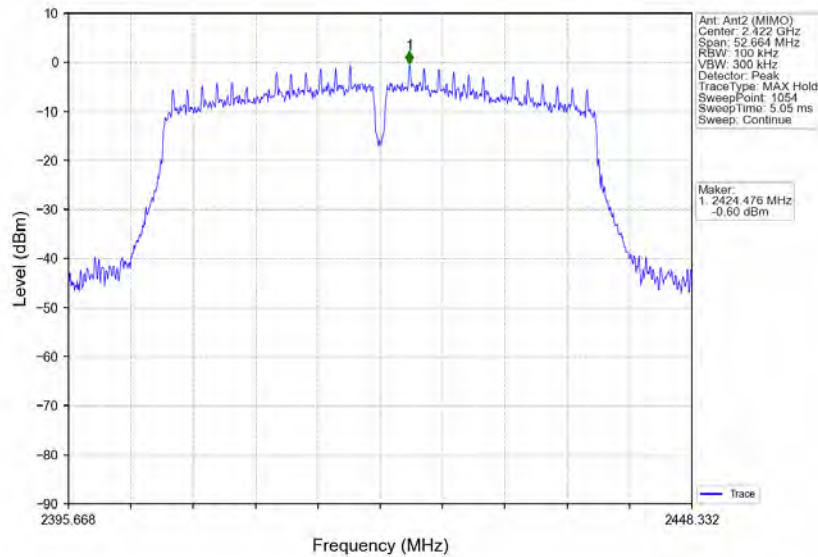
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



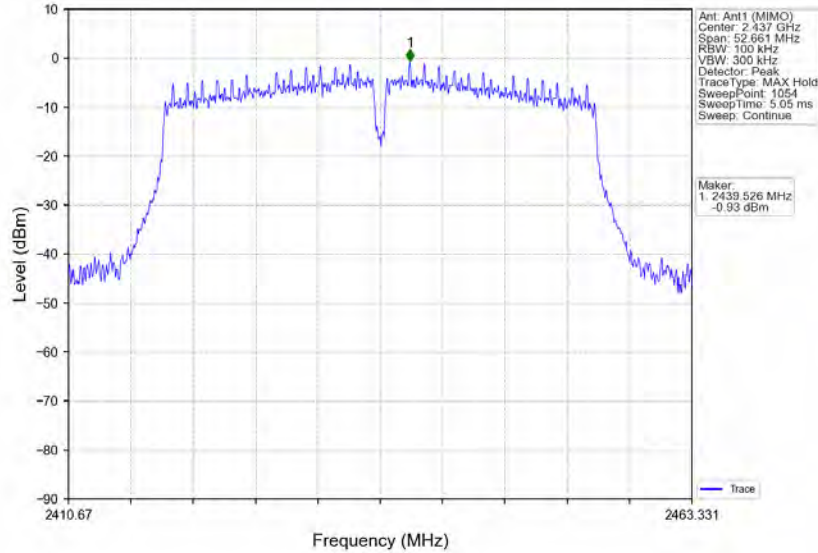
802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



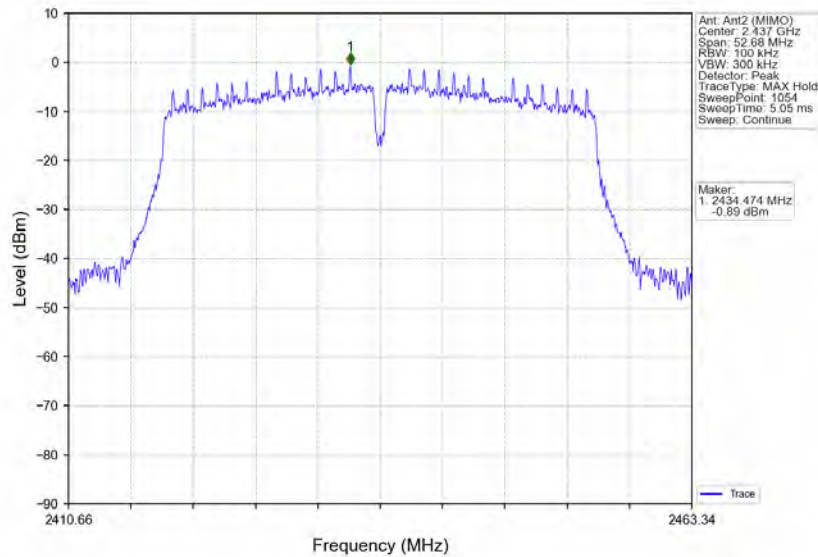
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



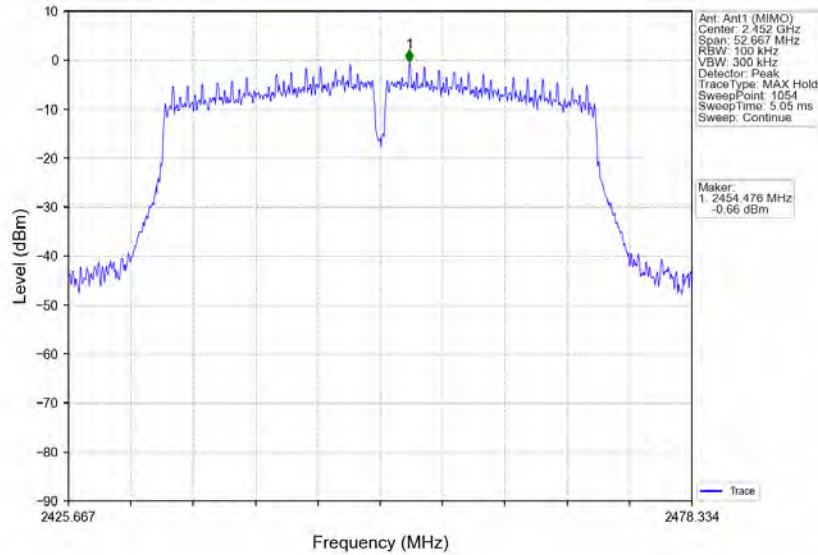
802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



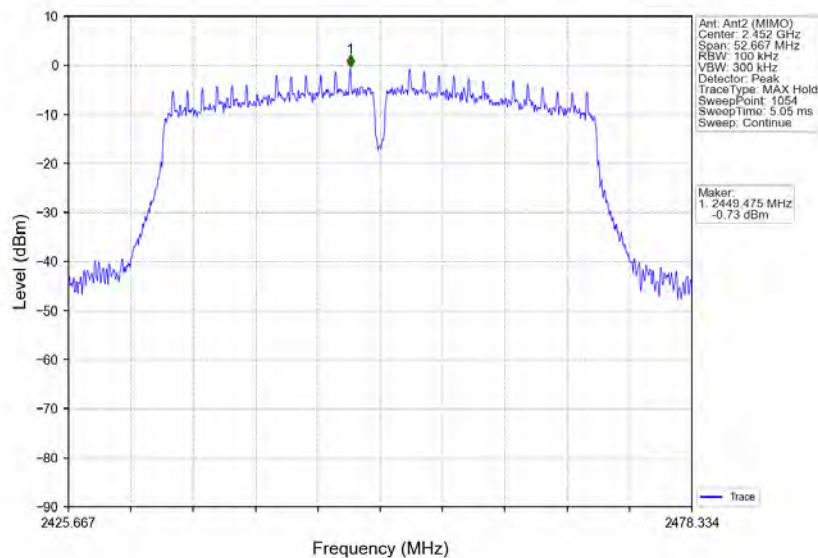
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



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5.2 CSE

5.2.1 Test Result

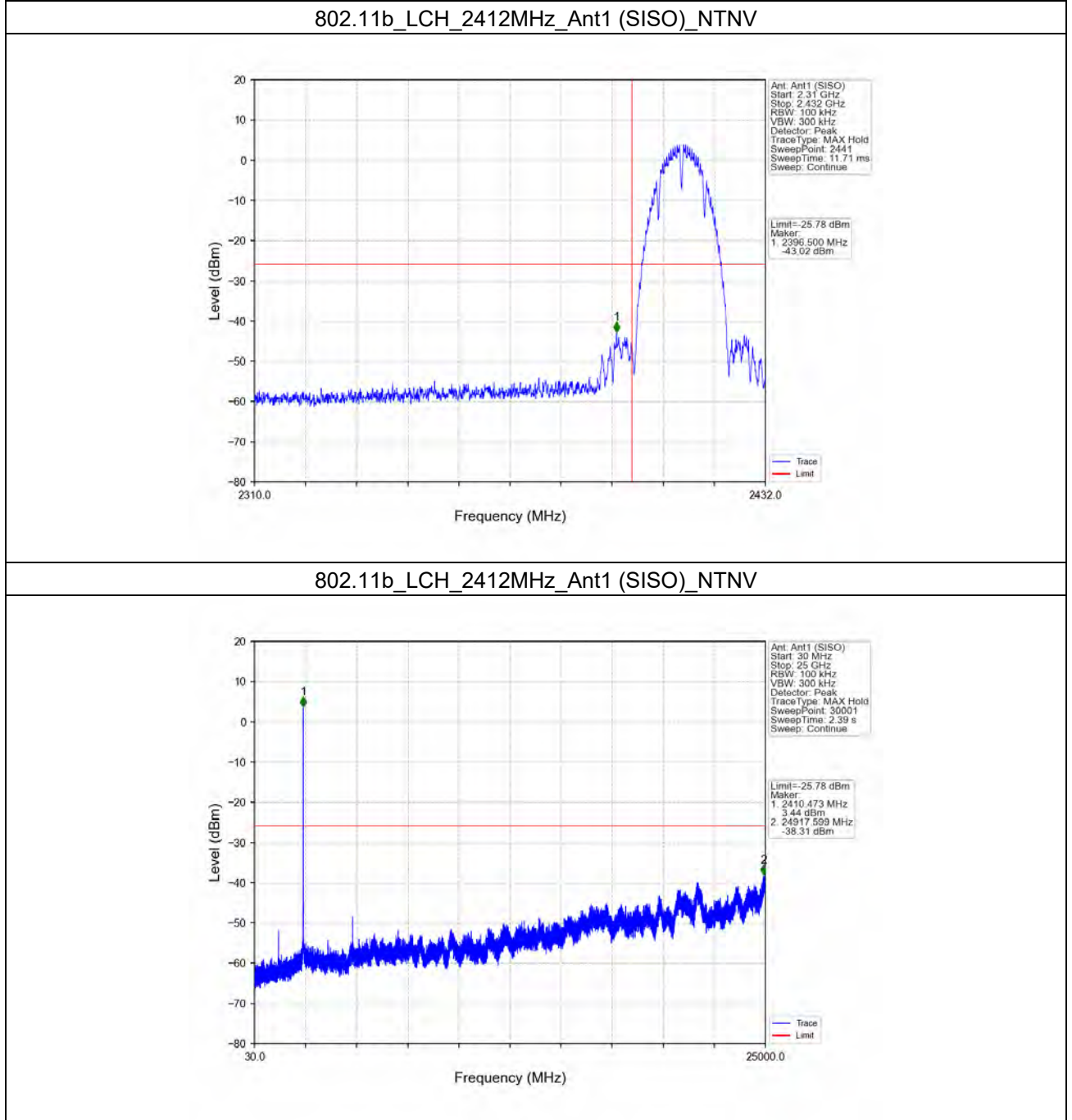
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	4.22	-25.78	Pass
			2	4.24	-25.76	Pass
		2437	1	4.22	-25.78	Pass
			2	4.24	-25.76	Pass
		2462	1	4.22	-25.78	Pass
			2	4.24	-25.76	Pass
802.11g	SISO	2412	1	2.89	-27.11	Pass
			2	3.30	-26.70	Pass
		2437	1	2.89	-27.11	Pass
			2	3.30	-26.70	Pass
		2462	1	2.89	-27.11	Pass
			2	3.30	-26.70	Pass
802.11n (HT20)	MIMO	2412	1	3.44	-26.56	Pass
			2	2.88	-27.12	Pass
		2437	1	3.44	-26.56	Pass
			2	2.88	-27.12	Pass
		2462	1	3.44	-26.56	Pass
			2	2.88	-27.12	Pass
802.11n (HT40)	MIMO	2422	1	-0.58	-30.58	Pass
			2	-0.60	-30.60	Pass
		2437	1	-0.58	-30.58	Pass
			2	-0.60	-30.60	Pass
		2452	1	-0.58	-30.58	Pass
			2	-0.60	-30.60	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.  
 Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.





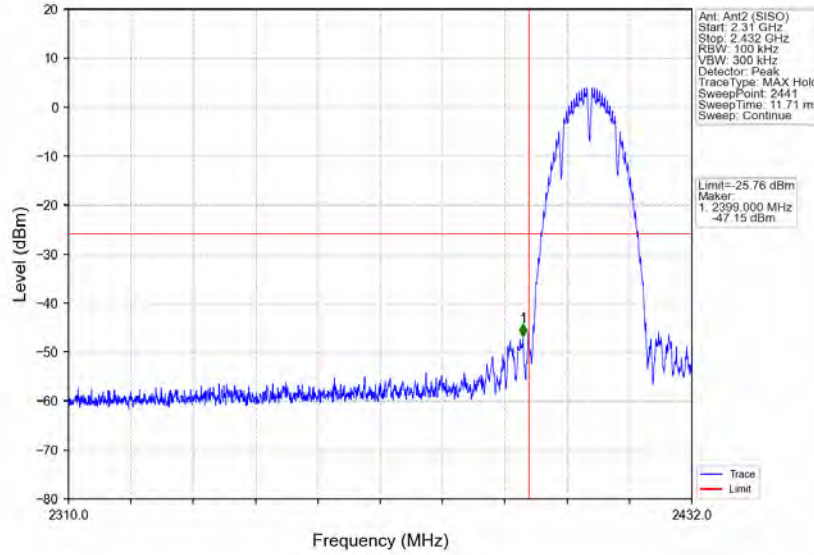
### 5.2.2 Test Graph



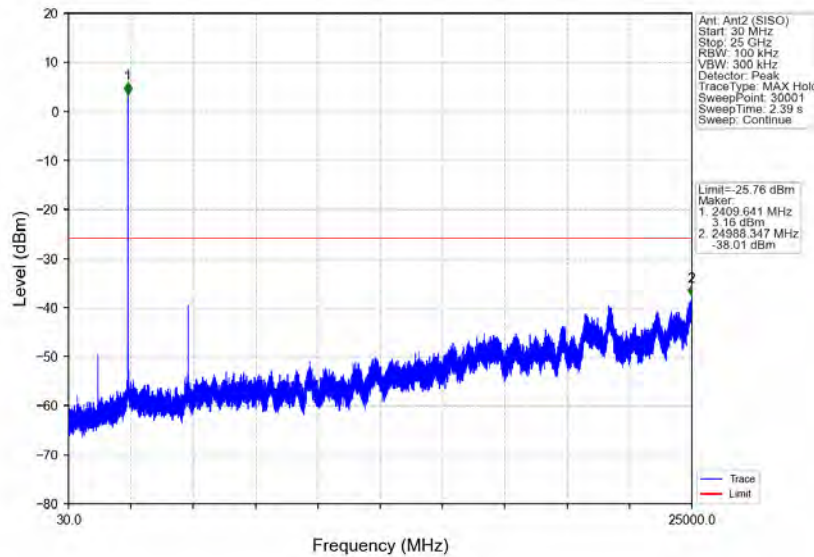
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802.11b\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



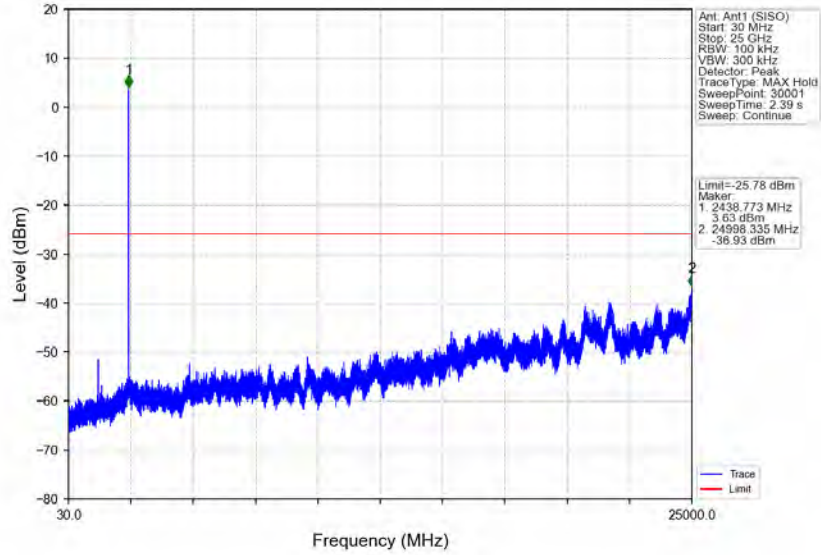
802.11b\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



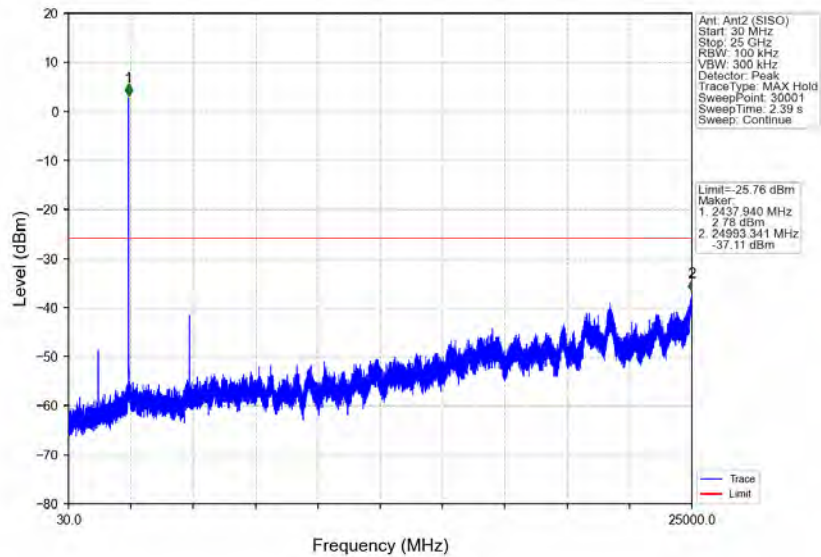
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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



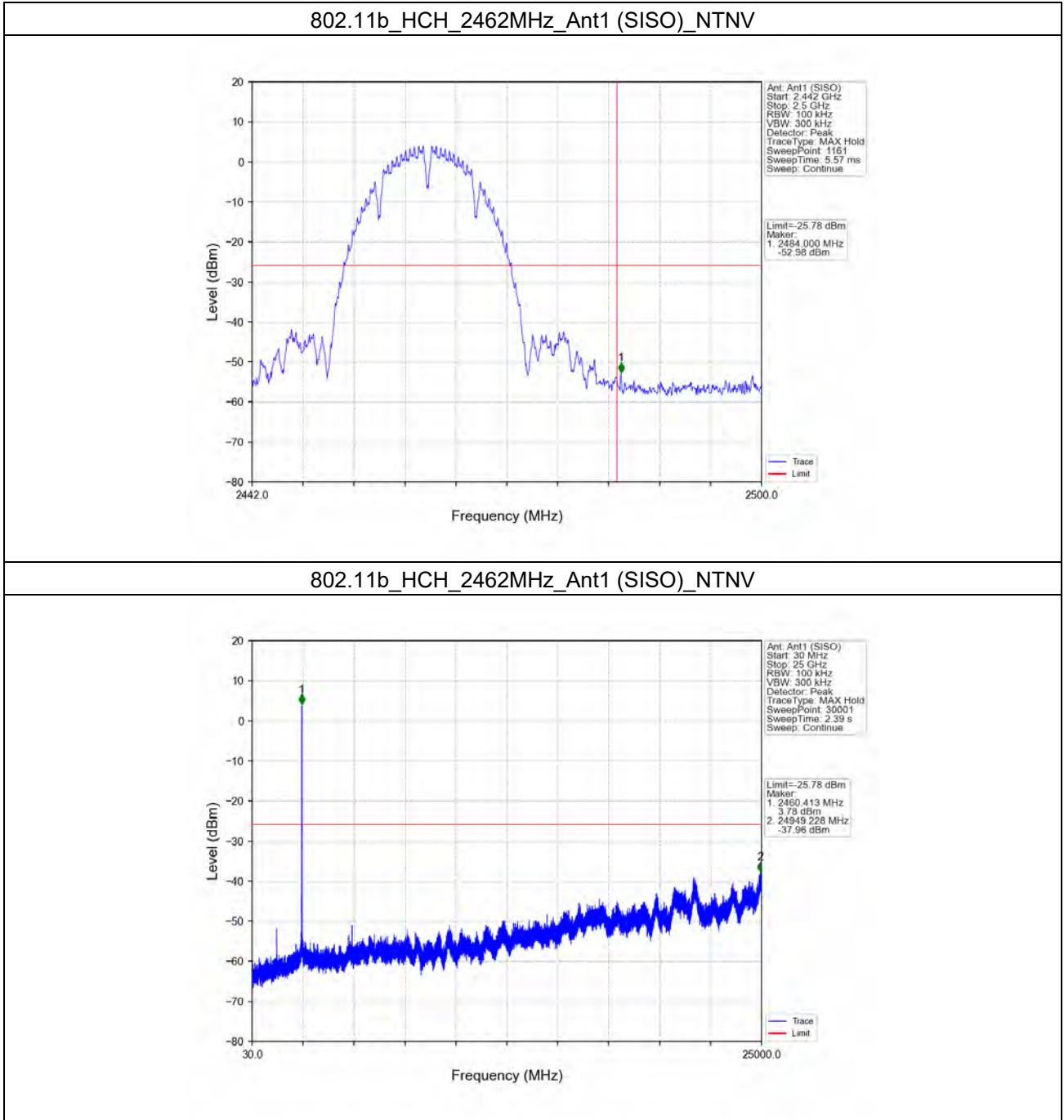
802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



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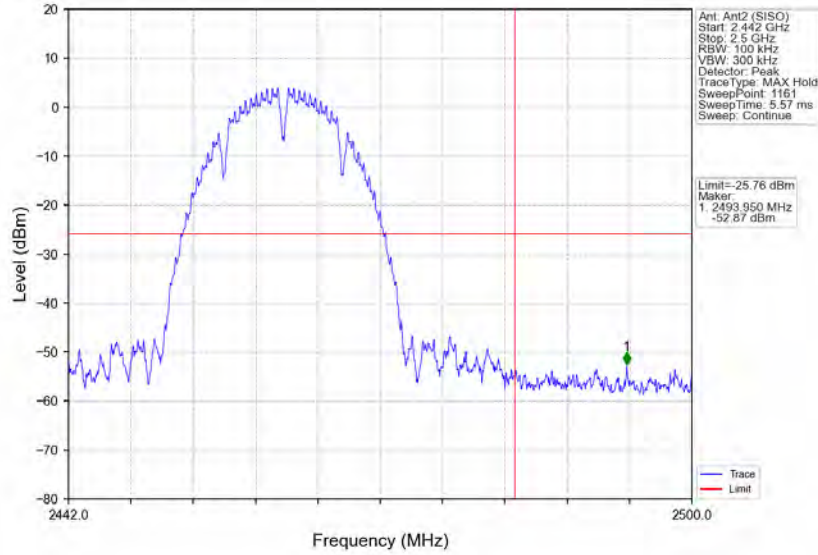




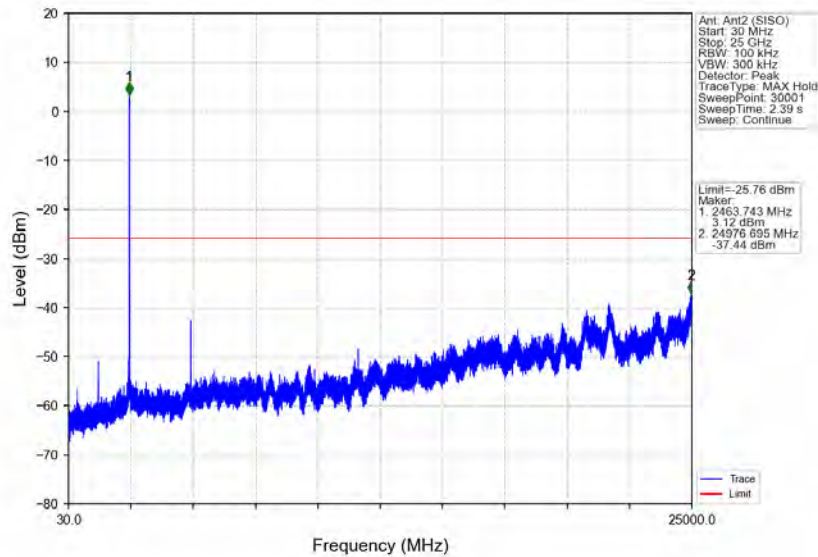
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802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



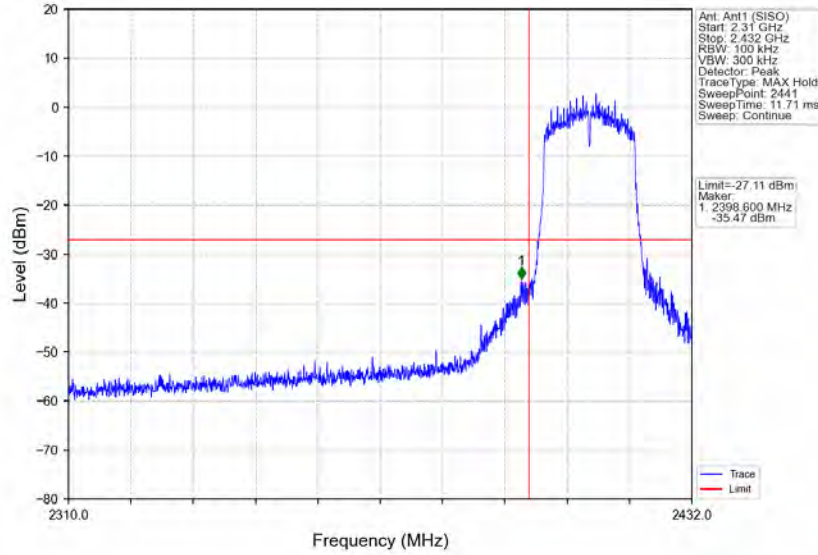
802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



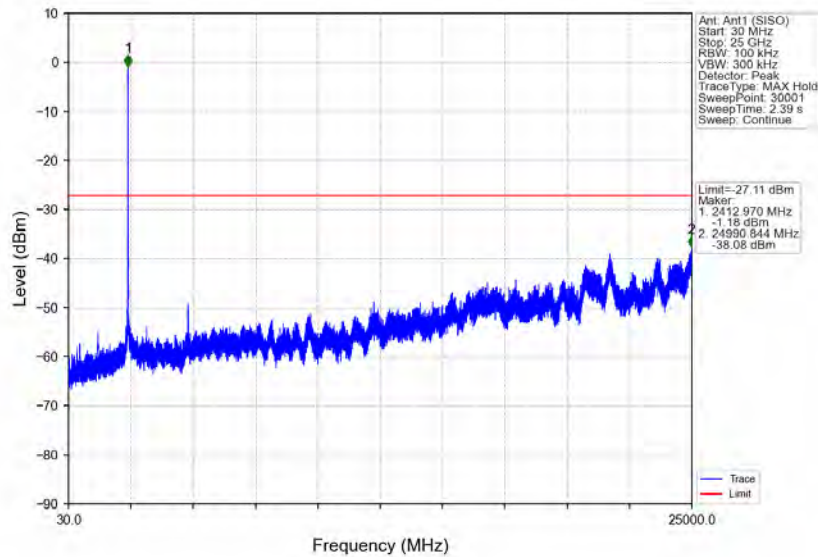
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

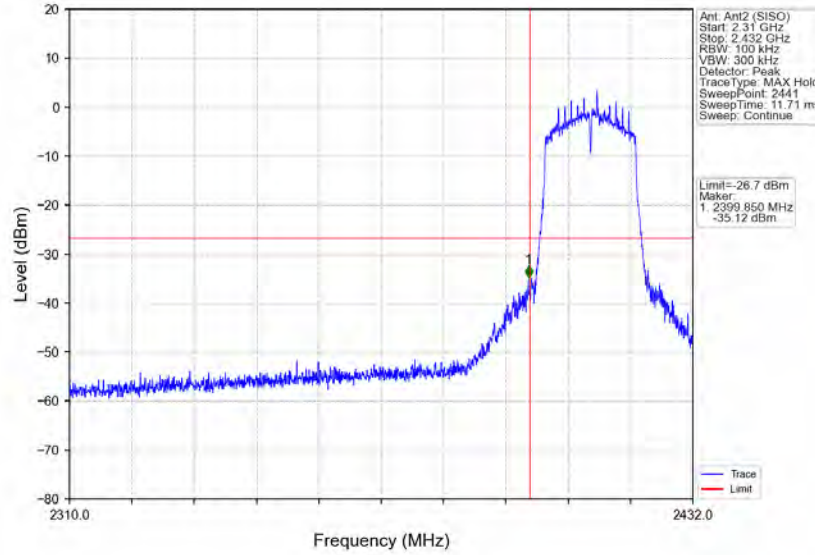


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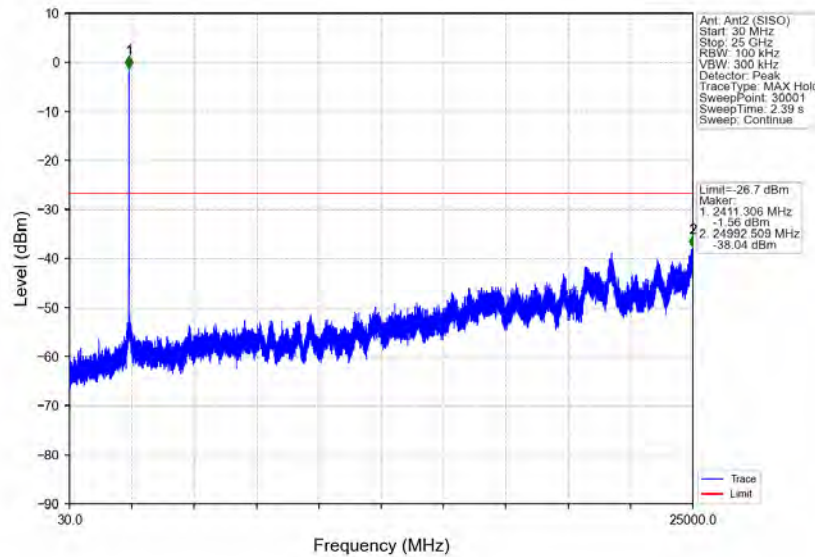
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802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



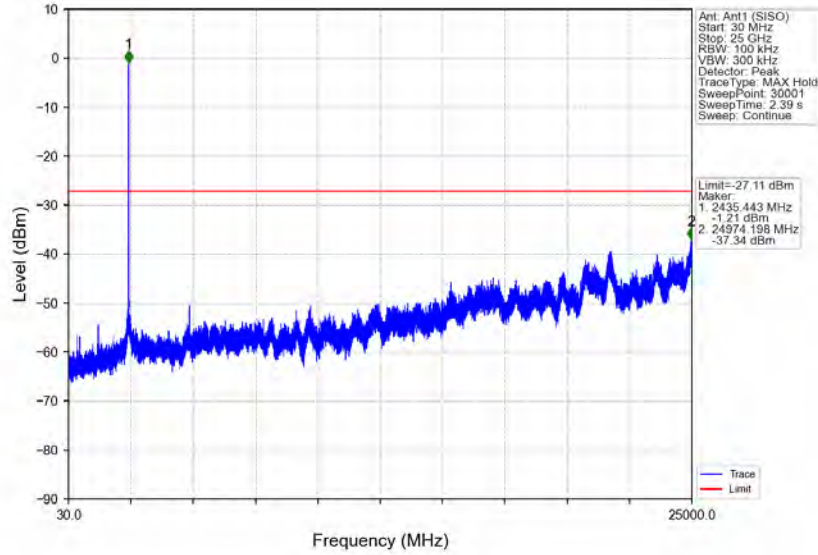
802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



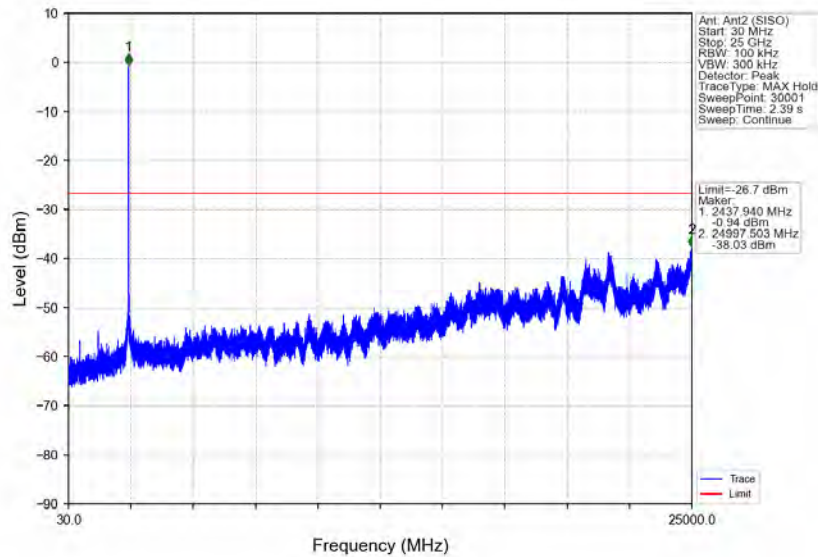
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



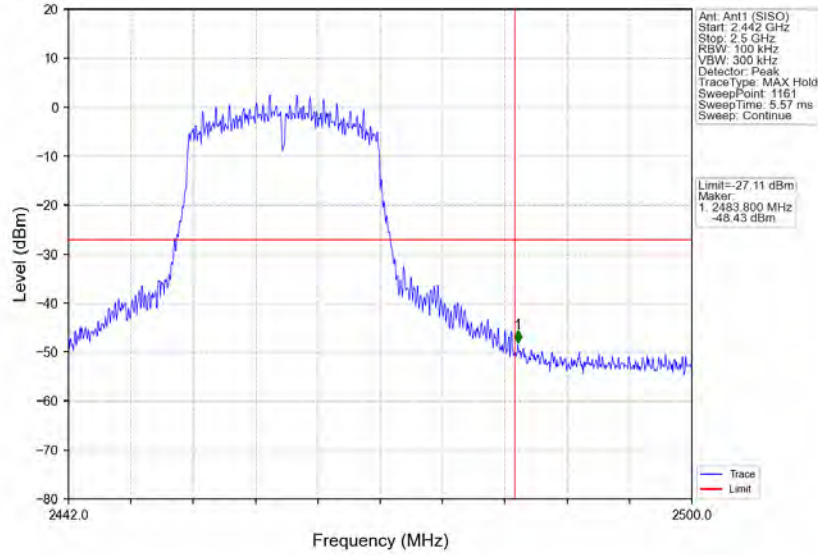
802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



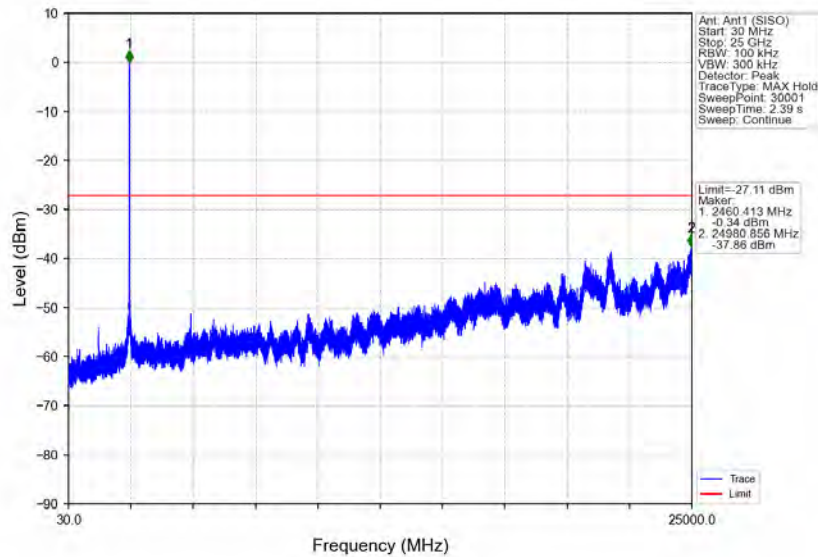
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

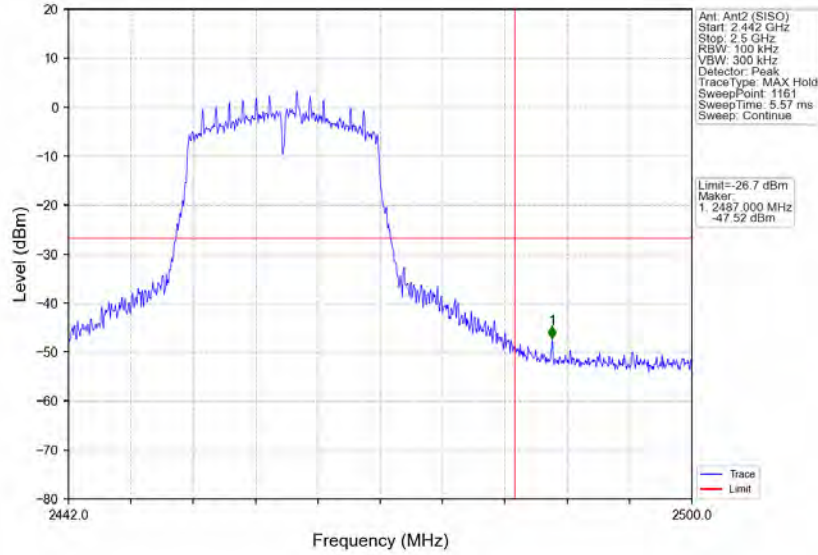


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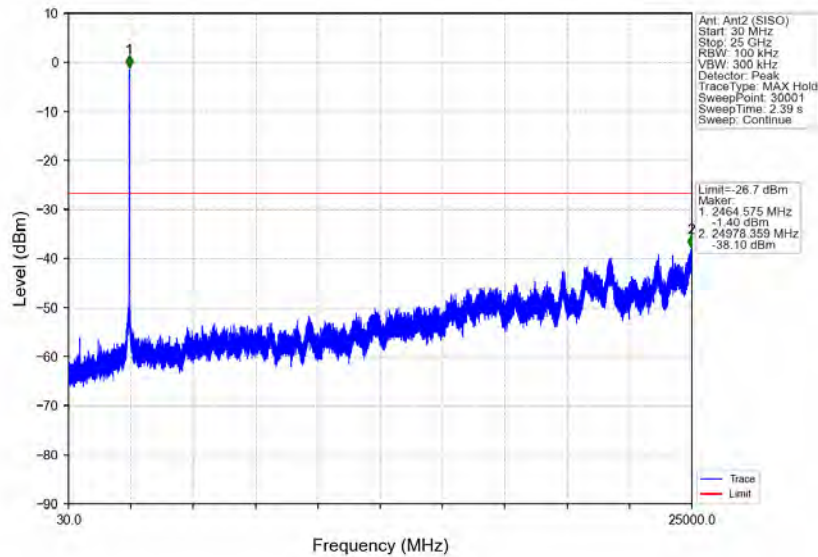
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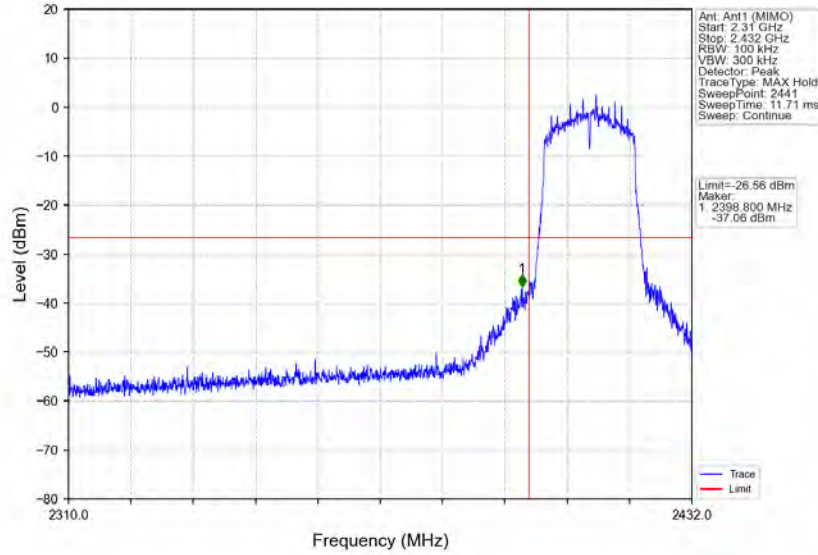
802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



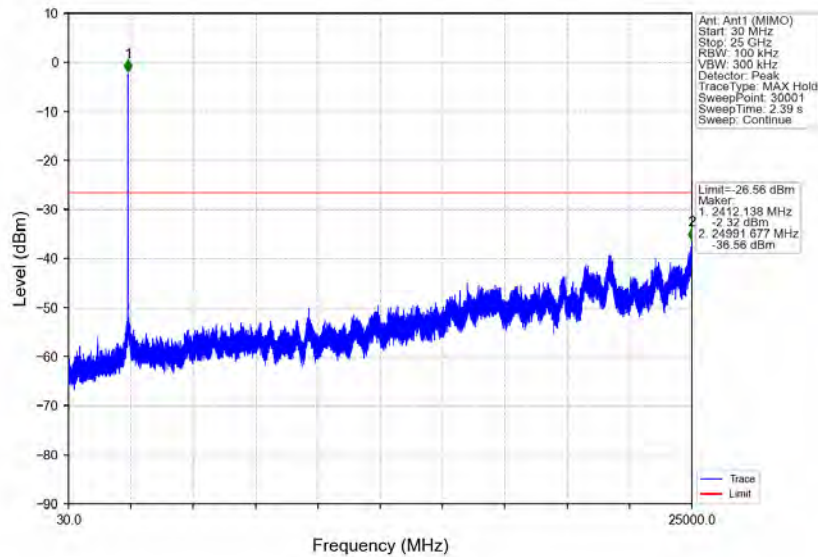
802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



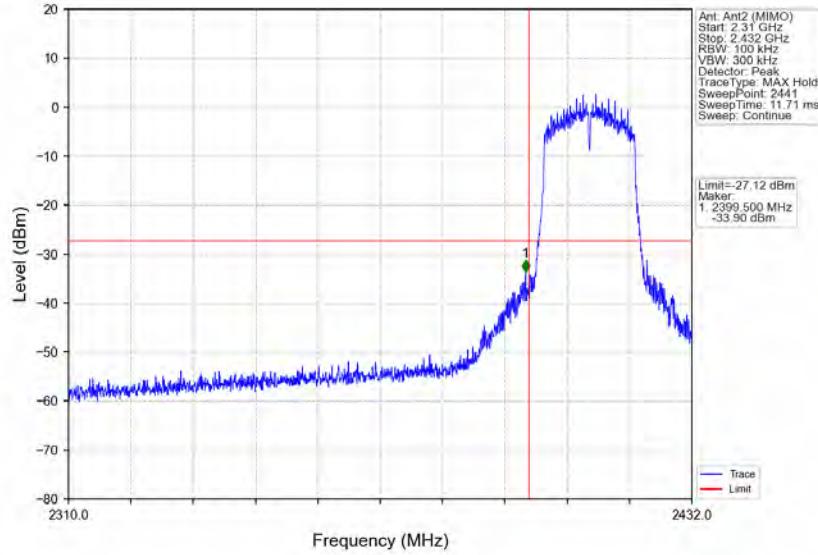
### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



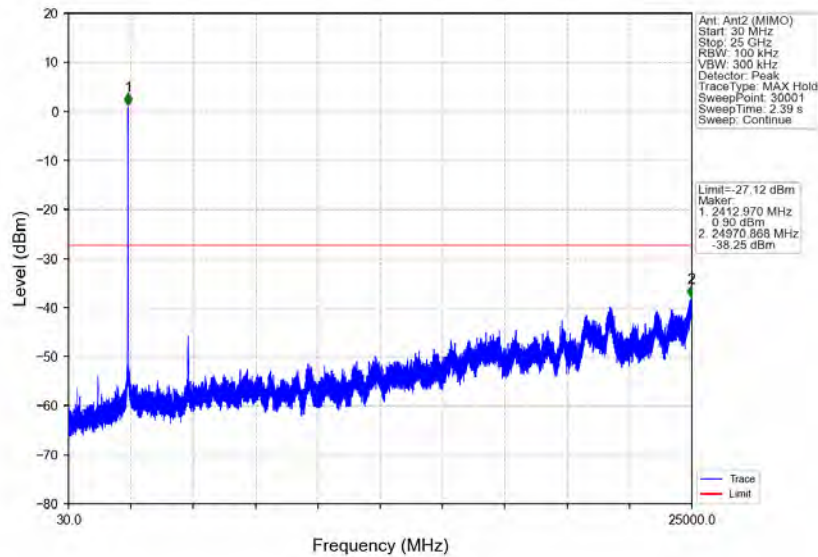
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



### 802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV

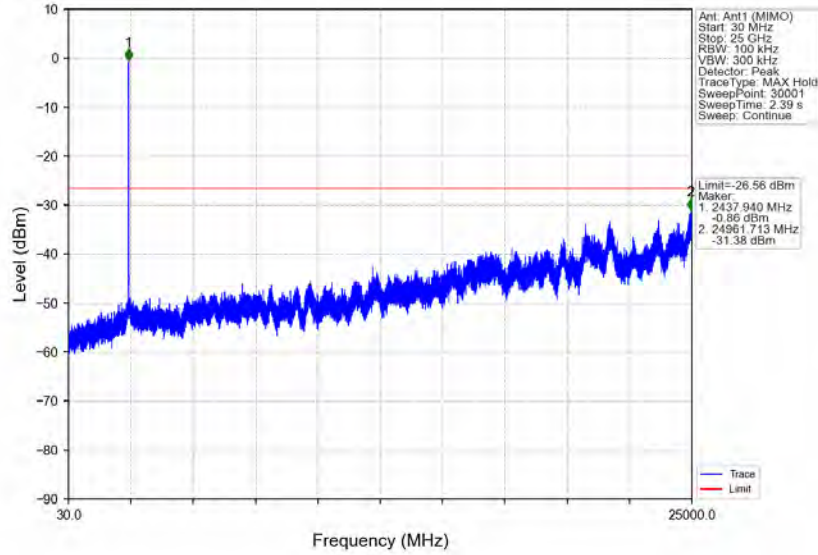


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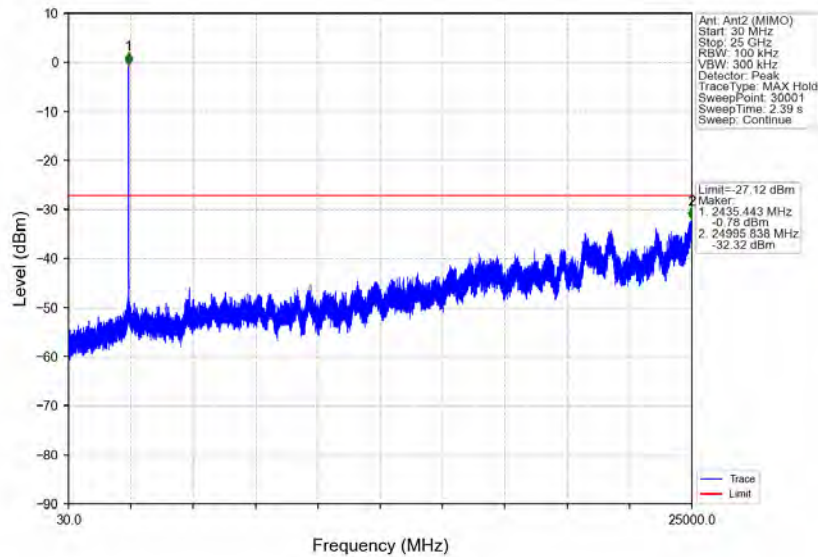
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



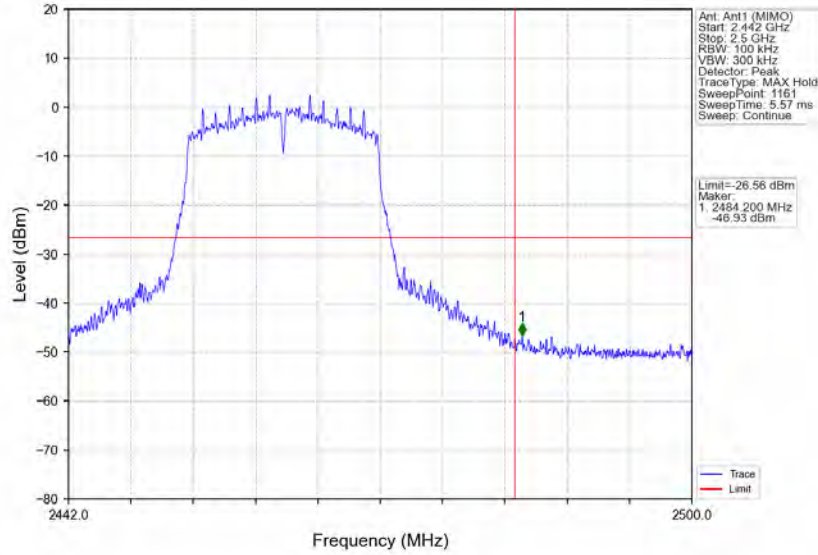
802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



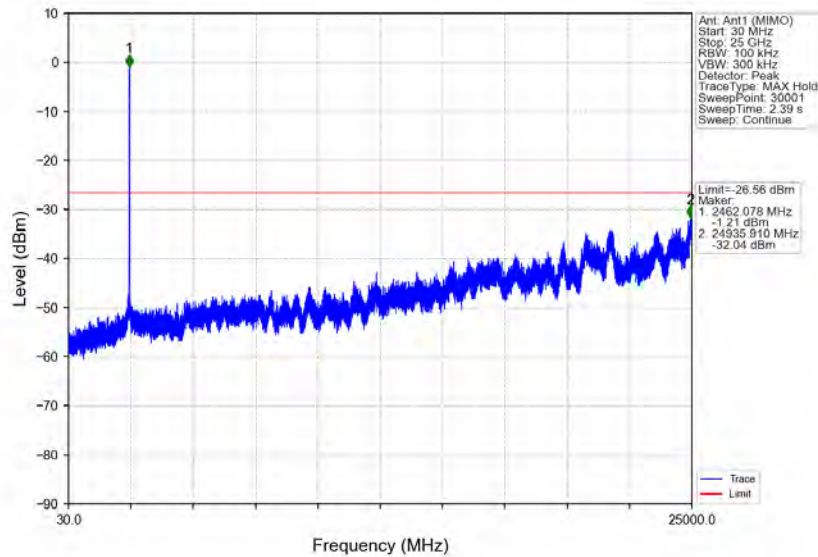
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



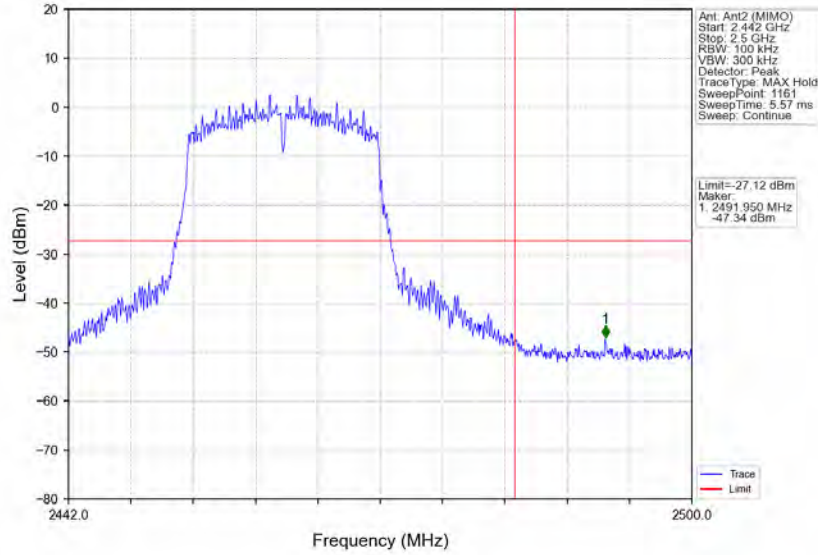
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



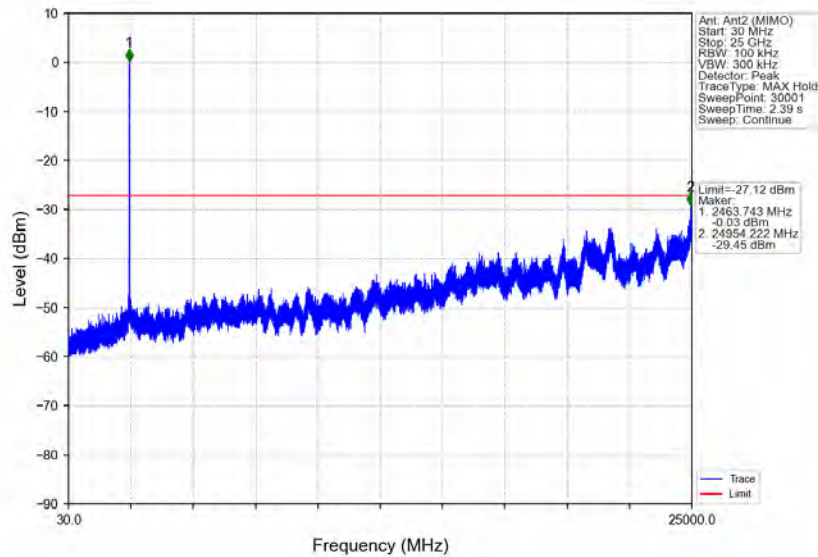
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802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV

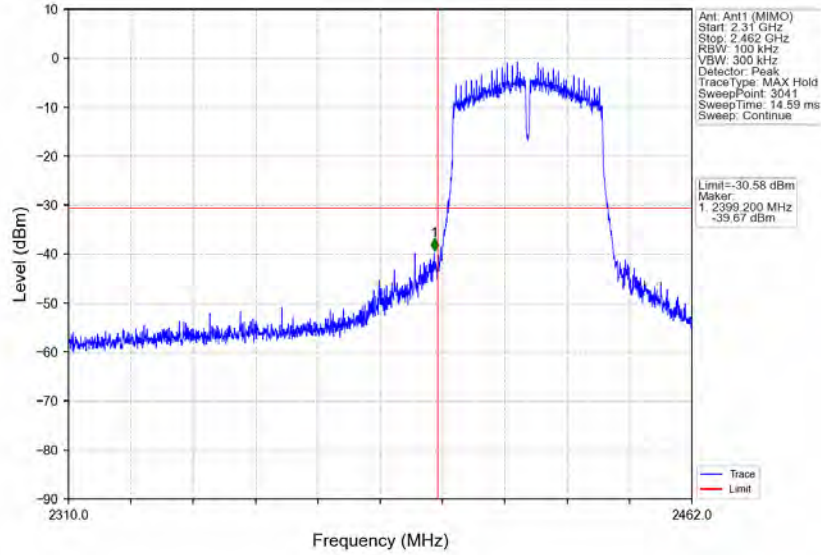


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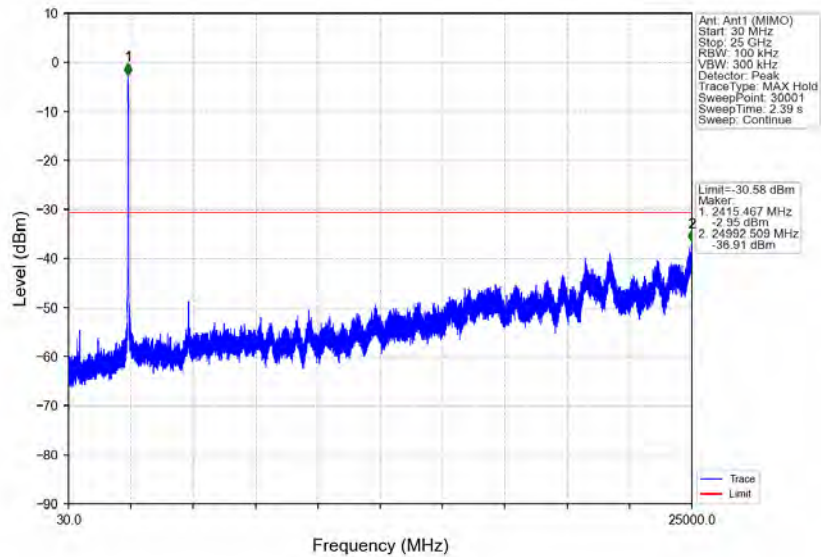
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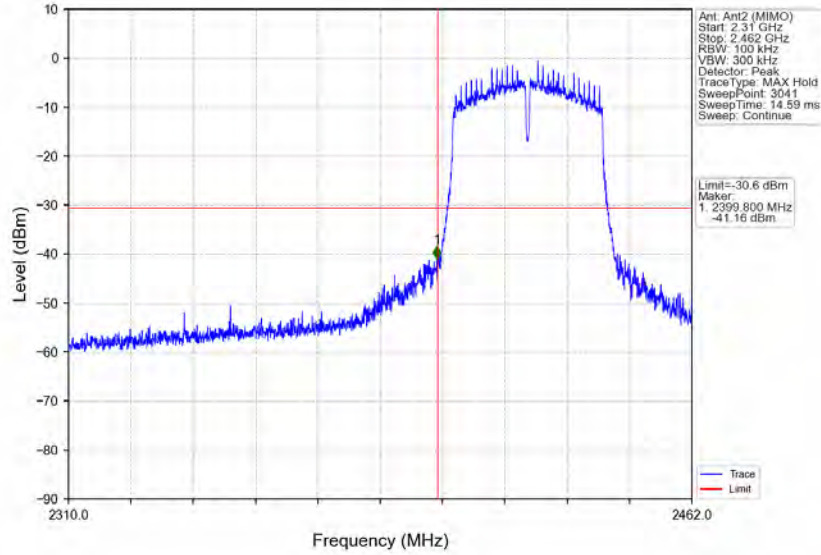
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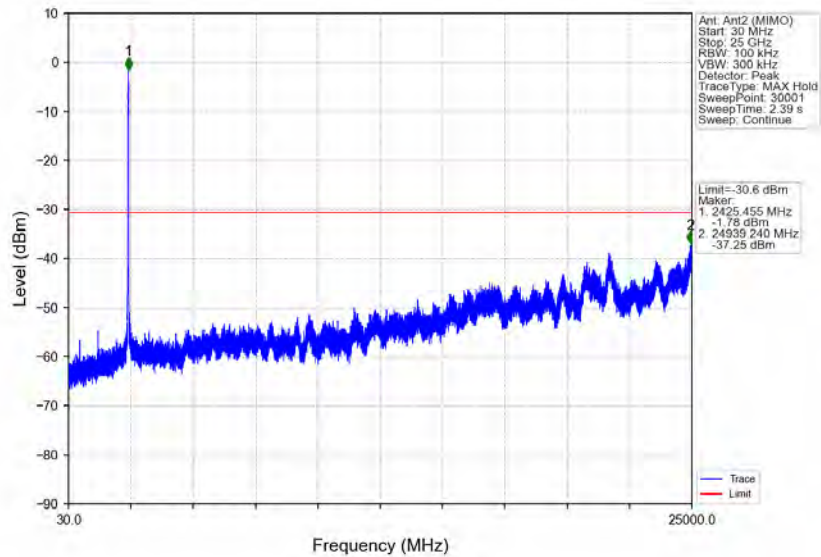
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802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



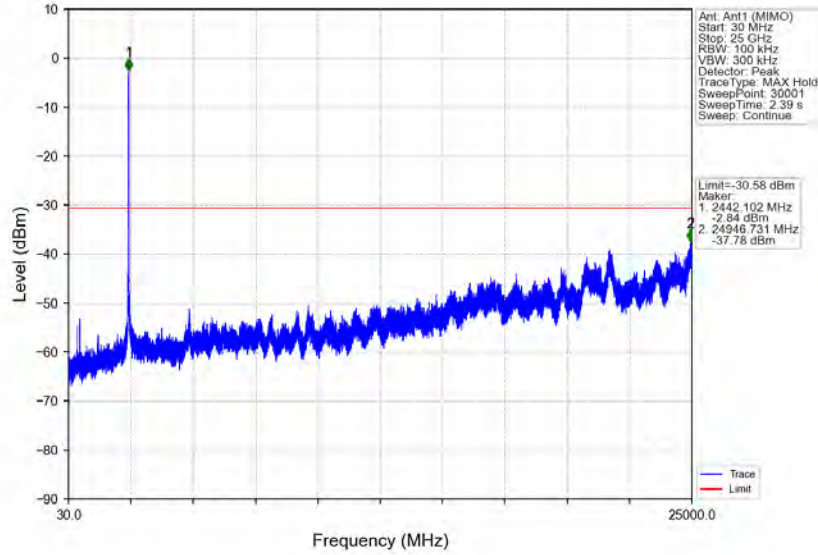
802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



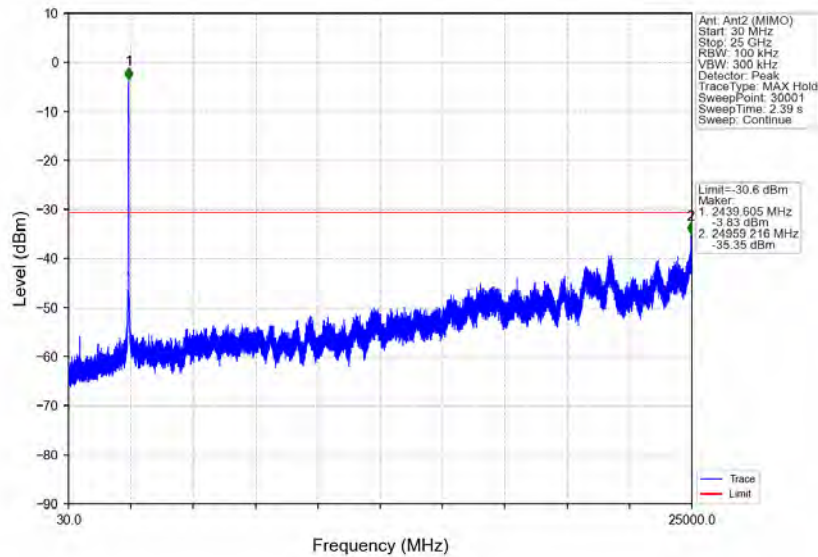
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV

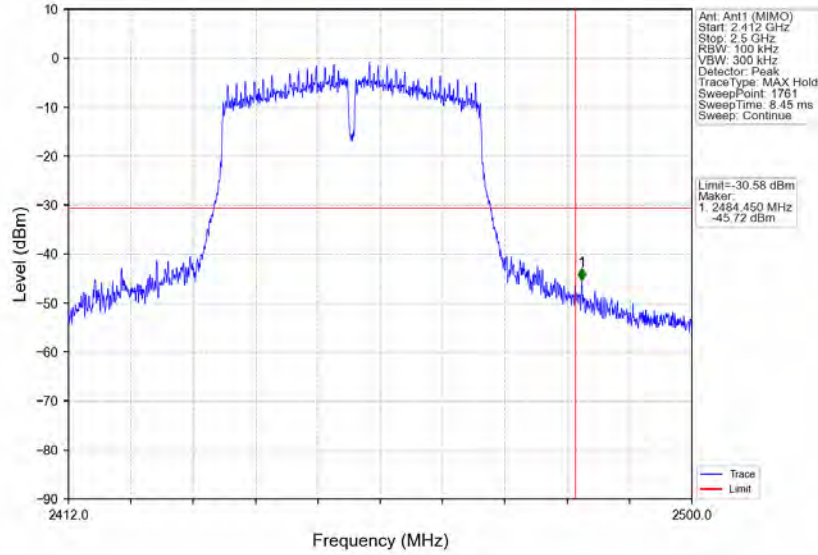


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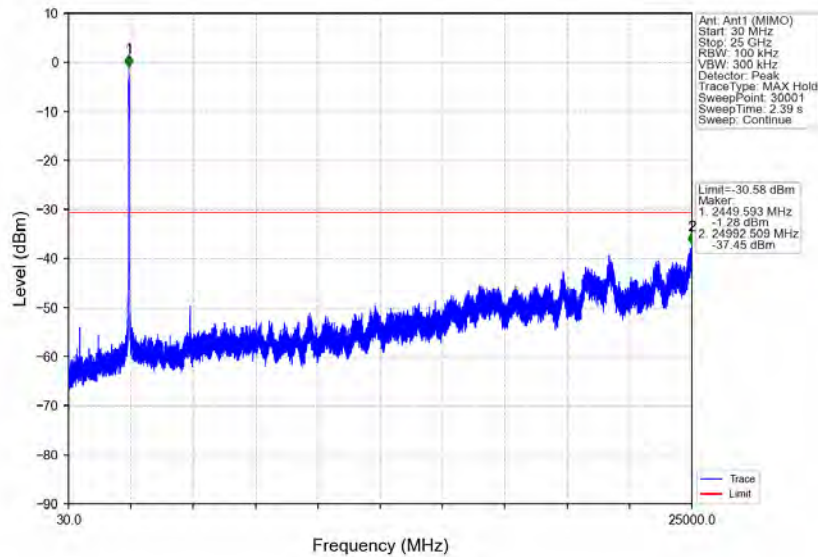
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV

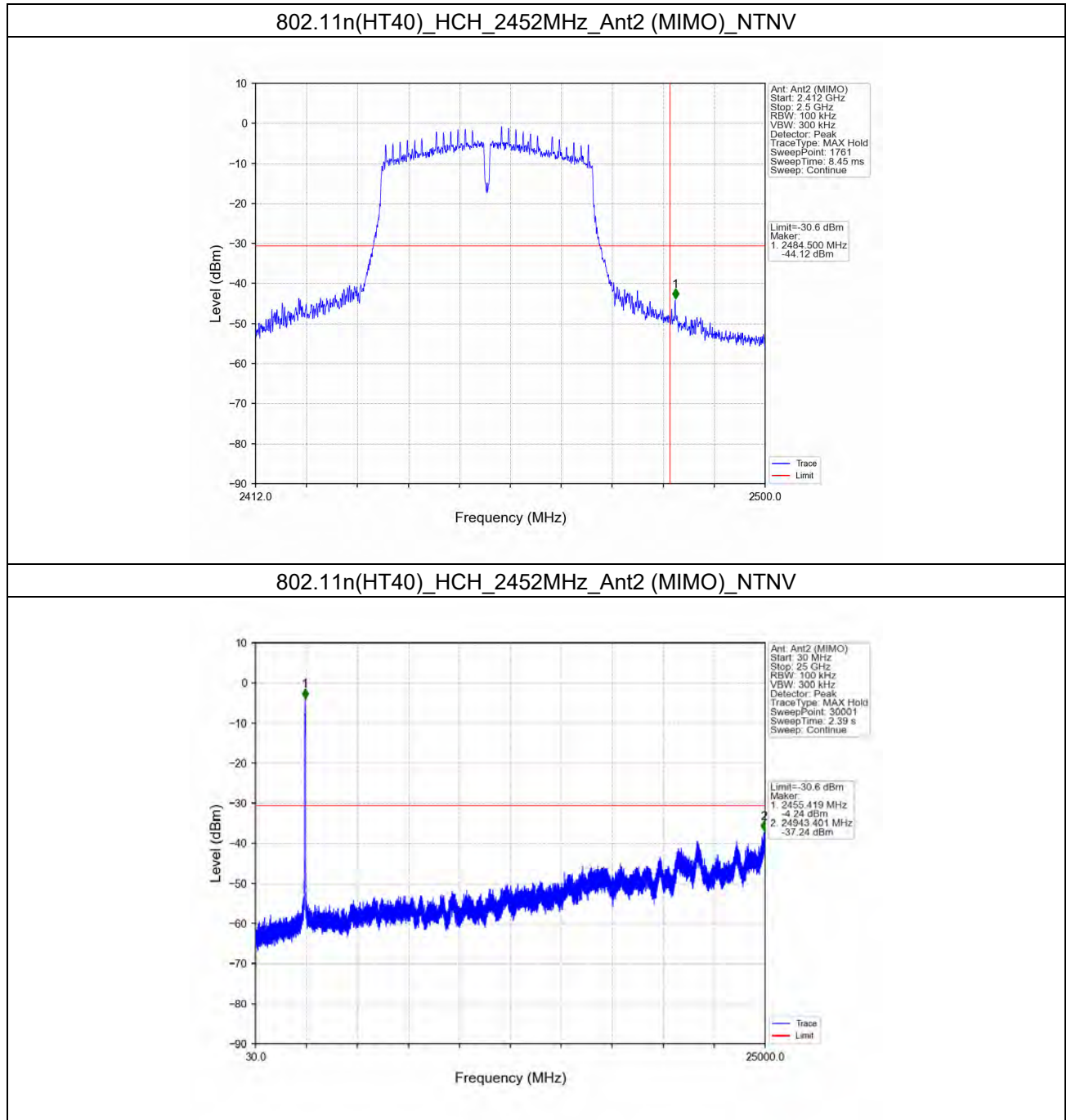


802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



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- End of the Report -



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