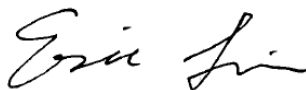


TEST REPORT

Application No.: KSCR2207001158AT
FCC ID: SVN-ARD1731-W2
Applicant: ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.
Address of Applicant: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
Manufacturer: ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.
Address of Manufacturer: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
Equipment Under Test (EUT):
EUT Name: Wireless PIR-Camera
Model No.: DHI-ARD1731-W2;DH-ARD1731-W2;ARD1731-W2 ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2022-07-07
Date of Test: 2022-07-08 to 2022-07-31
Date of Issue: 2022-08-10

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

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



Eric Lin
Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-08-10		Original

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



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	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 DHI-ARD1731-W2 was tested since their differences were the model number and appearance.



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 EMC Laboratory

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3V by CR123A*3
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:	Shrapnel Antenna
Antenna Gain:	2.84dBi (Provided by the manufacturer)

4.2 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
	Ant 1	Ant 1	Ant 1
1	0	0	0
6	0	0	0
11	0	0	0
Channel	802.11n(HT40)		
	Ant 1		
3	0		
6	0		
9	0		

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	/
Serial port adapter plate	/	/	/



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4.4 Measurement Uncertainty

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

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



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4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

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

No tests were sub-contracted.

Note:

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

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

4.6 Test Facility

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

- **CNAS (No. CNAS L4354)**

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

- **A2LA (Certificate No. 2541.01)**

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

- **FCC (Designation Number: CN1172)**

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

Designation Number: CN1172.

- **ISED (CAB identifier: CN0072)**

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

Company Number: 2324E

- **VCCI (Member No.: 1938)**

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

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals (150kHz-30MHz)						
1	EMI Test Receive	R&S	ESCI	KS301101	01/22/2022	01/21/2023
2	LISN	R&S	ENV216	KS301197	01/22/2022	01/21/2023
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/22/2022	01/21/2023
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	01/22/2022	01/21/2023
5	CE test Cable	Thermax	/	CZ301102	11/14/2021	11/13/2022
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	10/11/2021	10/10/2022
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	09/17/2021	09/16/2022
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/22/2022	01/21/2023
4	Signal Generator	R&S	SMW200A	KSEM020-1	10/12/2021	10/11/2022
5	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/27/2021	08/26/2022
6	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	09/23/2021	09/22/2022
7	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	04/01/2022	03/31/2023
8	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	10/12/2021	10/11/2022
9	Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
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	01/16/2022	01/15/2023
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	04/01/2021	03/31/2023
15	Software	BST	TST-PASS	/	N/A	N/A
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	10/11/2021	10/10/2022
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	10/18/2021	10/17/2022
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	10/26/2020	10/25/2022
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/22/2022	03/21/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/14/2021	11/13/2022
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023
14	Software	Faratronic	EZ_EMV-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 is Shrapnel Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.84 dBi.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Average 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 $25 \leq$ 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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 44.2 % 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.

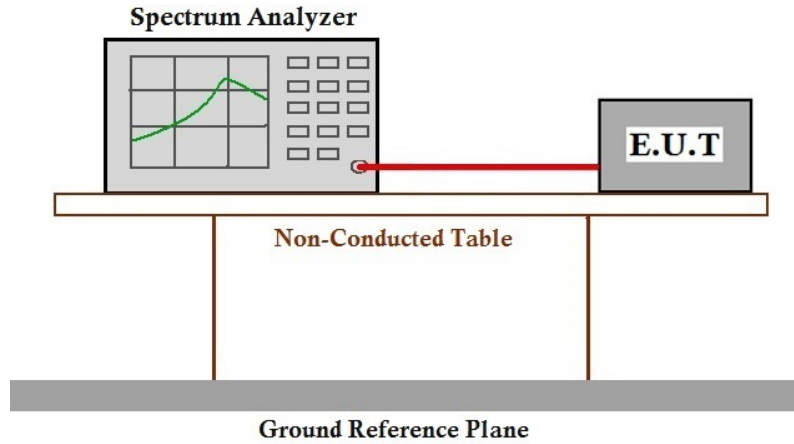


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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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7.2 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:
 ≥500 kHz

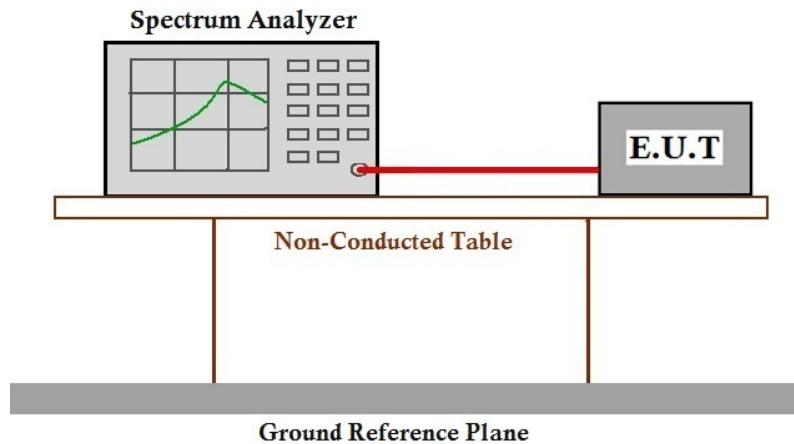
7.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.4 °C Humidity: 44.2 % 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.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
 Test Method: ANSI C63.10 (2013) Section 11.10.2

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

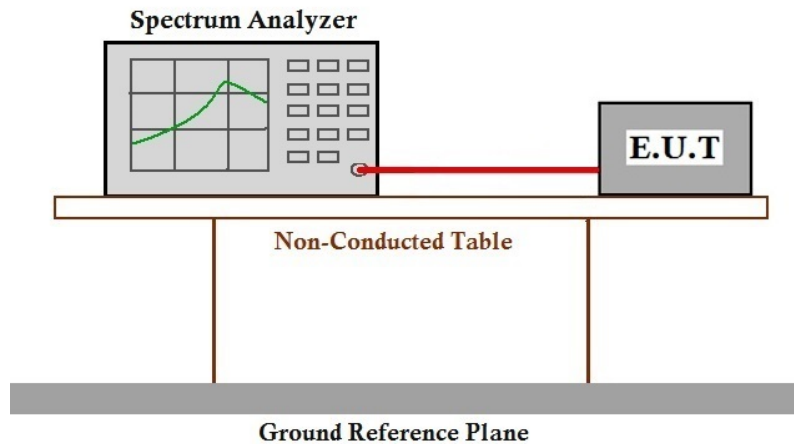
7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.5 °C Humidity: 44.1 % 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 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)).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 44.0 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

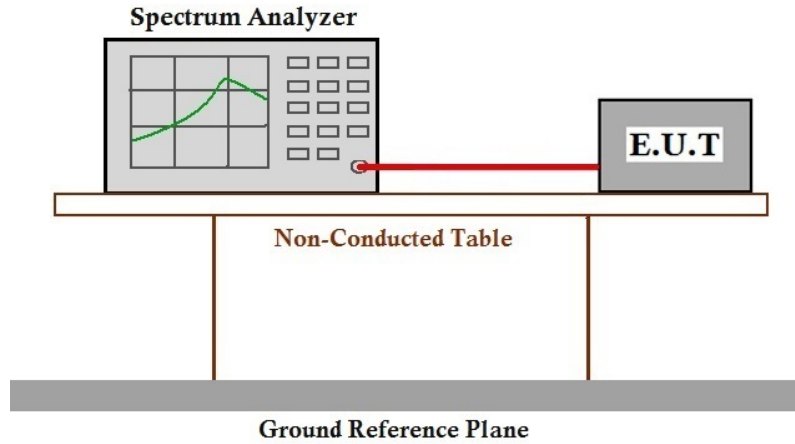
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of 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.



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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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7.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
 Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 44.0 % 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.

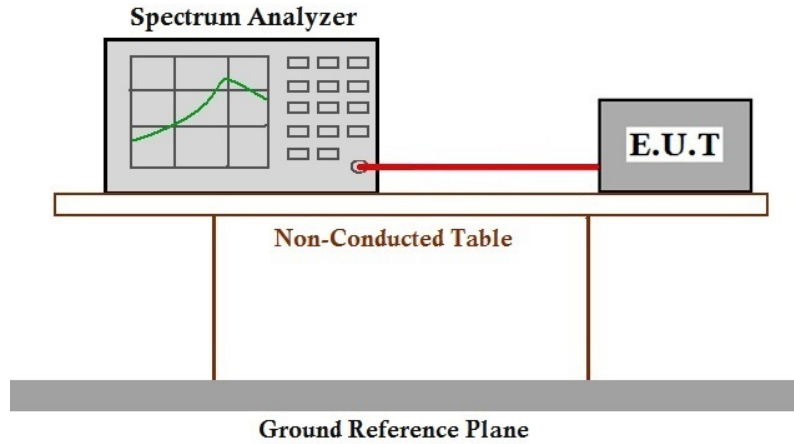


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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 57.4 % 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.

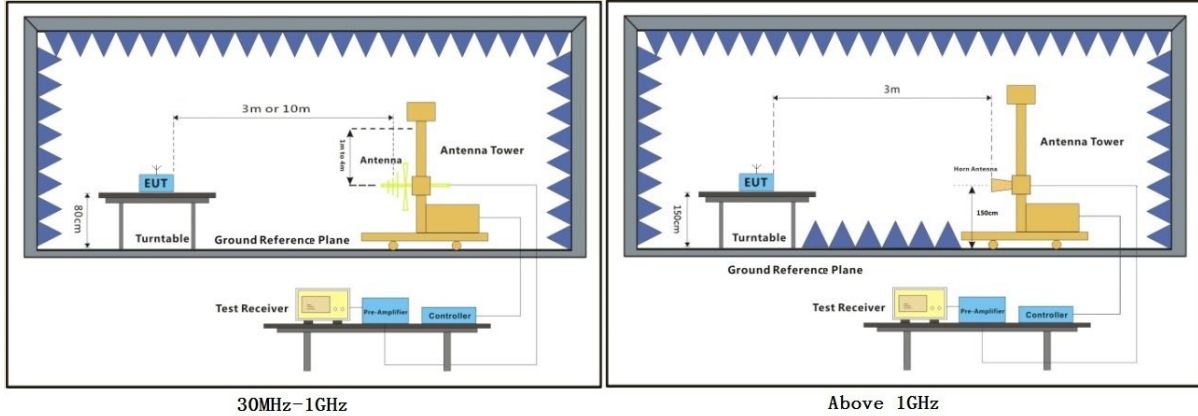


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7.6.3 Test Setup Diagram



30MHz-1GHz

Above 1GHz



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7.6.4 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.

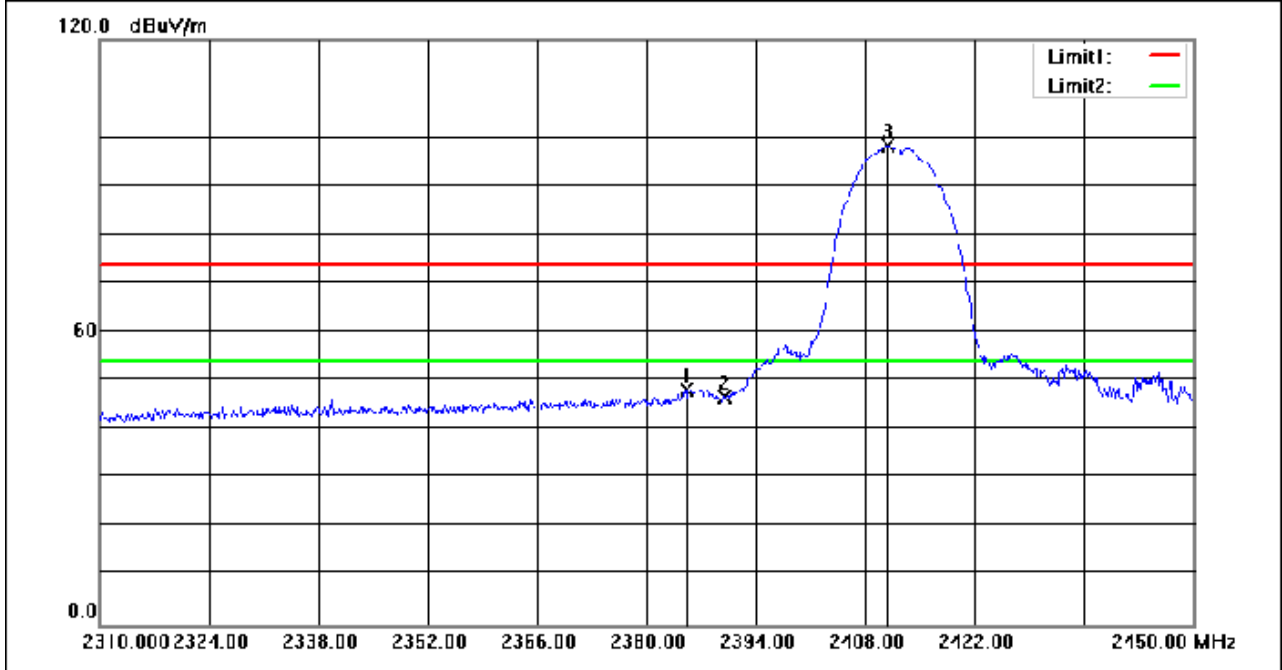


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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.180	66.96	-18.76	48.20	74.00	-25.80	peak
2	2390.000	65.53	-18.75	46.78	74.00	-27.22	peak
3	2410.800	116.89	-18.71	98.18	74.00	24.18	peak



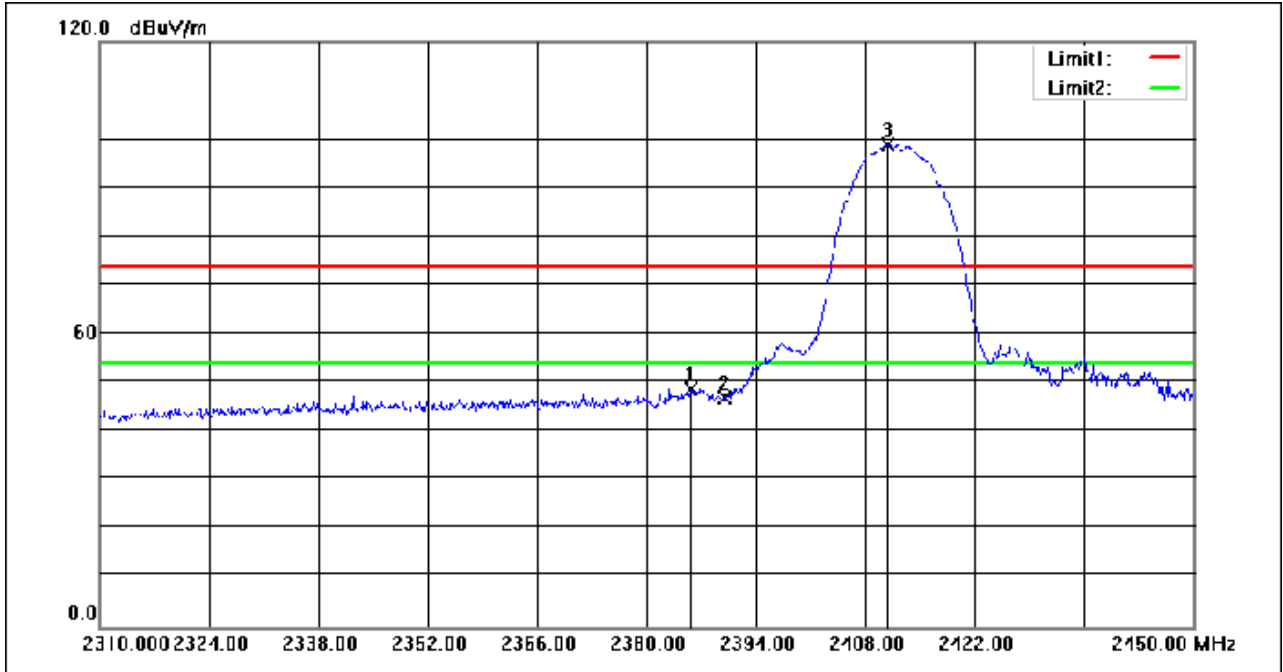
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.600	67.65	-18.76	48.89	74.00	-25.11	peak
2	2390.000	65.69	-18.75	46.94	74.00	-27.06	peak
3	2410.940	117.57	-18.71	98.86	74.00	24.86	peak



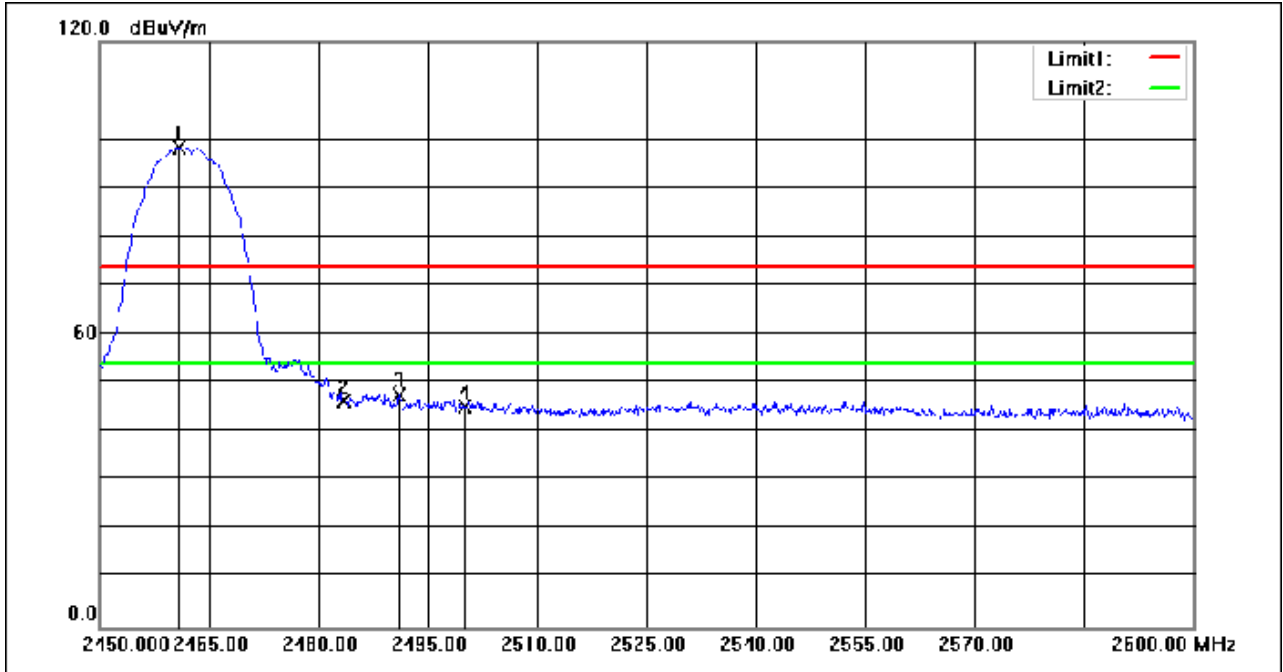
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.800	116.91	-18.53	98.38	74.00	24.38	peak
2	2483.500	64.68	-18.45	46.23	74.00	-27.77	peak
3	2491.100	66.06	-18.41	47.65	74.00	-26.35	peak
4	2500.000	63.42	-18.38	45.04	74.00	-28.96	peak



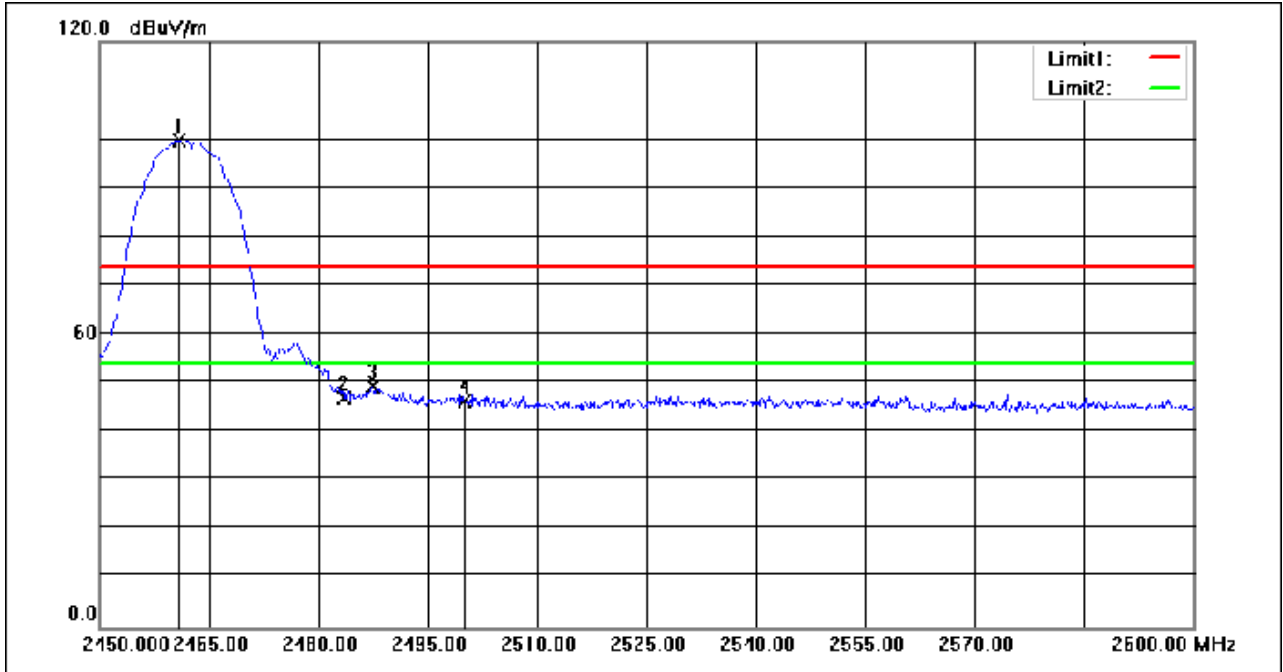
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.800	118.26	-18.53	99.73	74.00	25.73	peak
2	2483.500	65.49	-18.45	47.04	74.00	-26.96	peak
3	2487.500	67.90	-18.43	49.47	74.00	-24.53	peak
4	2500.000	64.75	-18.38	46.37	74.00	-27.63	peak



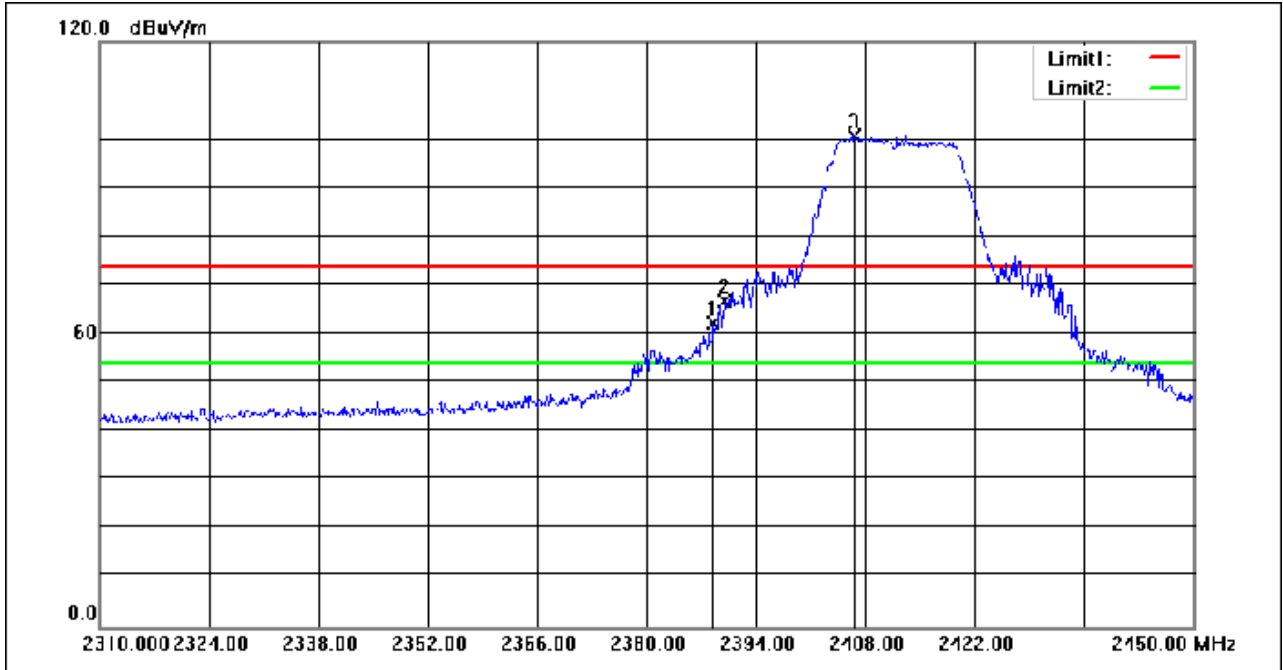
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.540	80.87	-18.75	62.12	74.00	-11.88	peak
2	2390.000	85.52	-18.75	66.77	74.00	-7.23	peak
3	2406.600	119.29	-18.72	100.57	74.00	26.57	peak



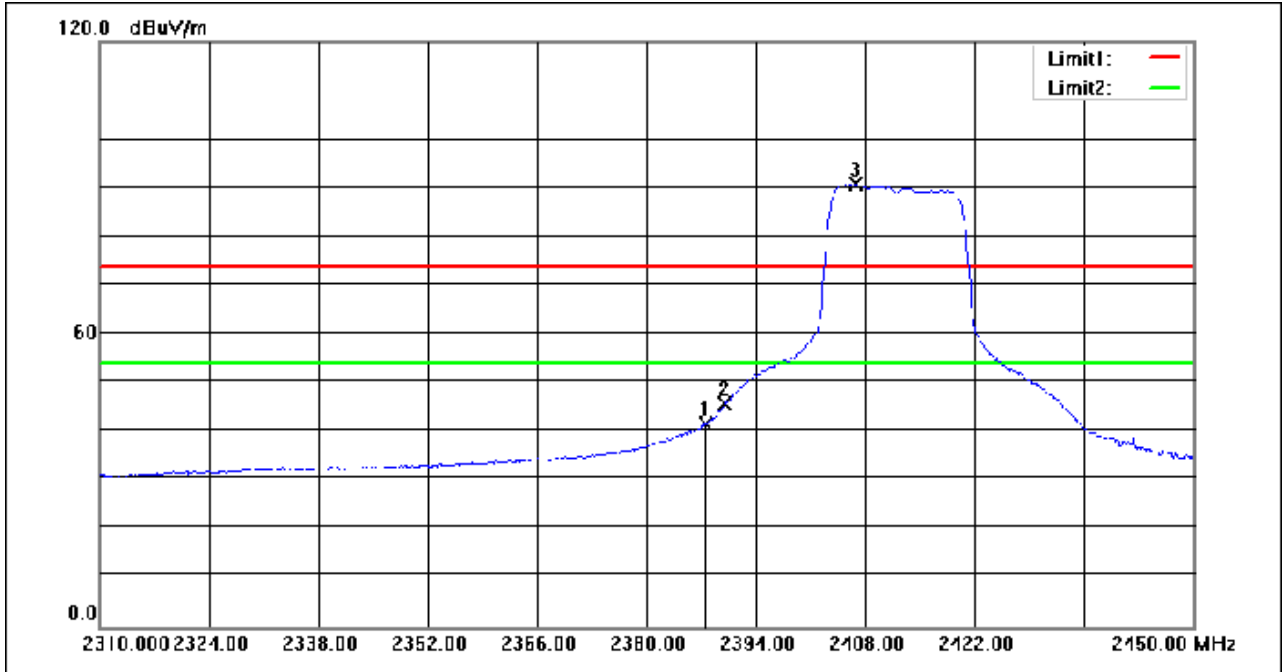
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.560	60.23	-18.76	41.47	54.00	-12.53	AVG
2	2390.000	64.49	-18.75	45.74	54.00	-8.26	AVG
3	2406.740	109.54	-18.72	90.82	54.00	36.82	AVG



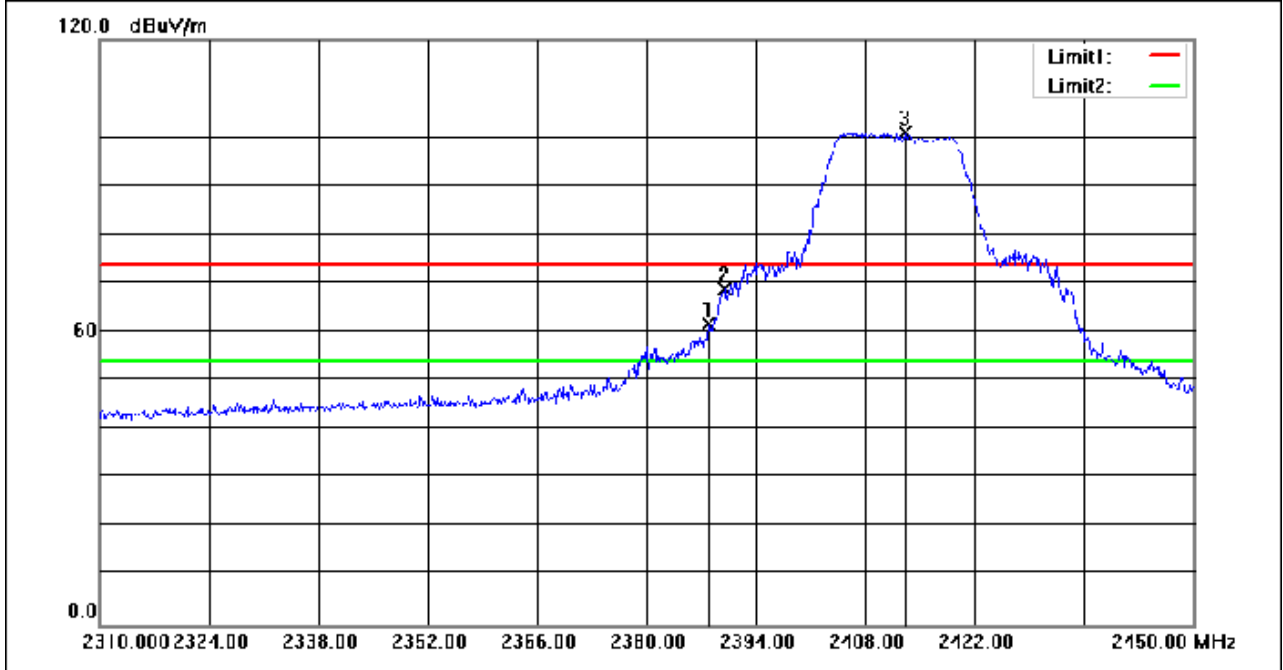
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.980	80.45	-18.76	61.69	74.00	-12.31	peak
2	2390.000	87.70	-18.75	68.95	74.00	-5.05	peak
3	2413.040	119.53	-18.70	100.83	74.00	26.83	peak

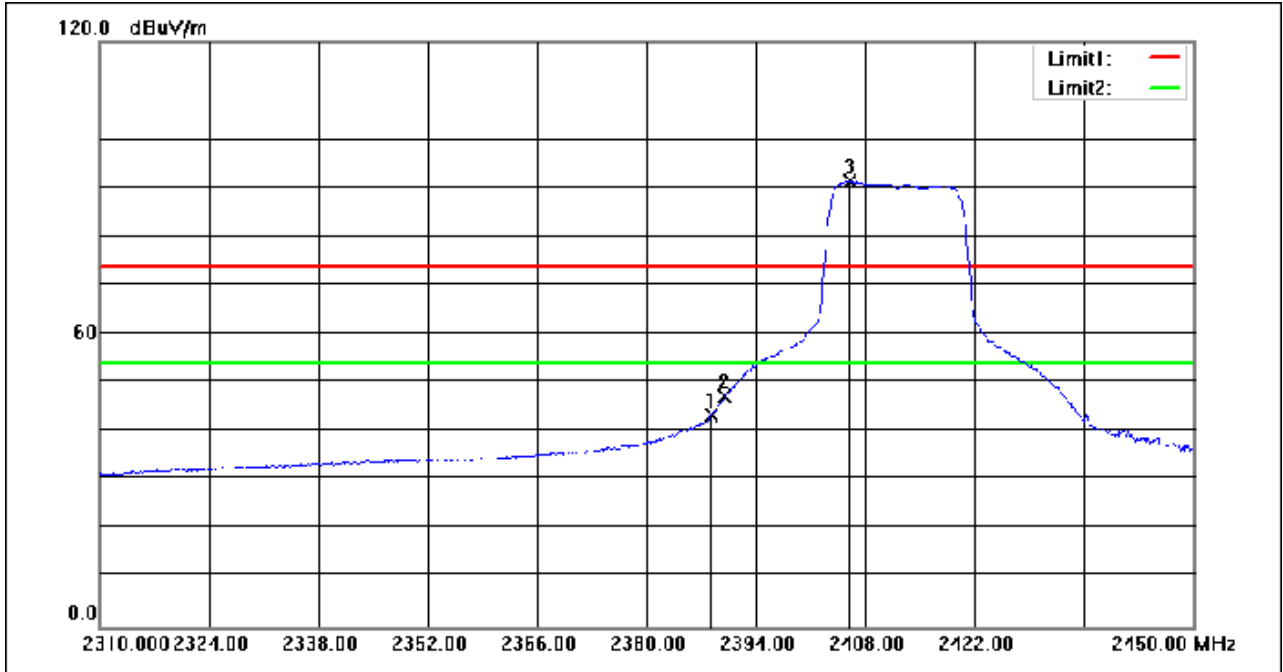


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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.260	62.14	-18.75	43.39	54.00	-10.61	AVG
2	2390.000	66.11	-18.75	47.36	54.00	-6.64	AVG
3	2406.040	110.08	-18.72	91.36	54.00	37.36	AVG



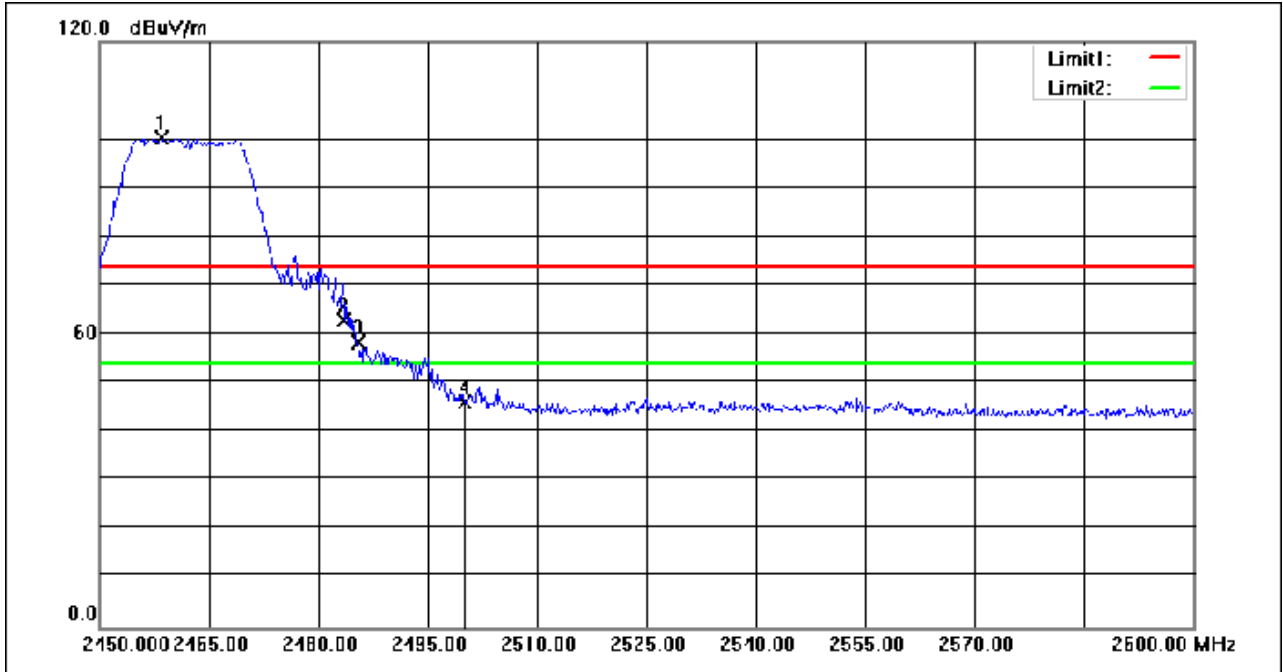
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2458.550	118.94	-18.54	100.40	74.00	26.40	peak
2	2483.500	81.42	-18.45	62.97	74.00	-11.03	peak
3	2485.400	76.82	-18.44	58.38	74.00	-15.62	peak
4	2500.000	64.34	-18.38	45.96	74.00	-28.04	peak

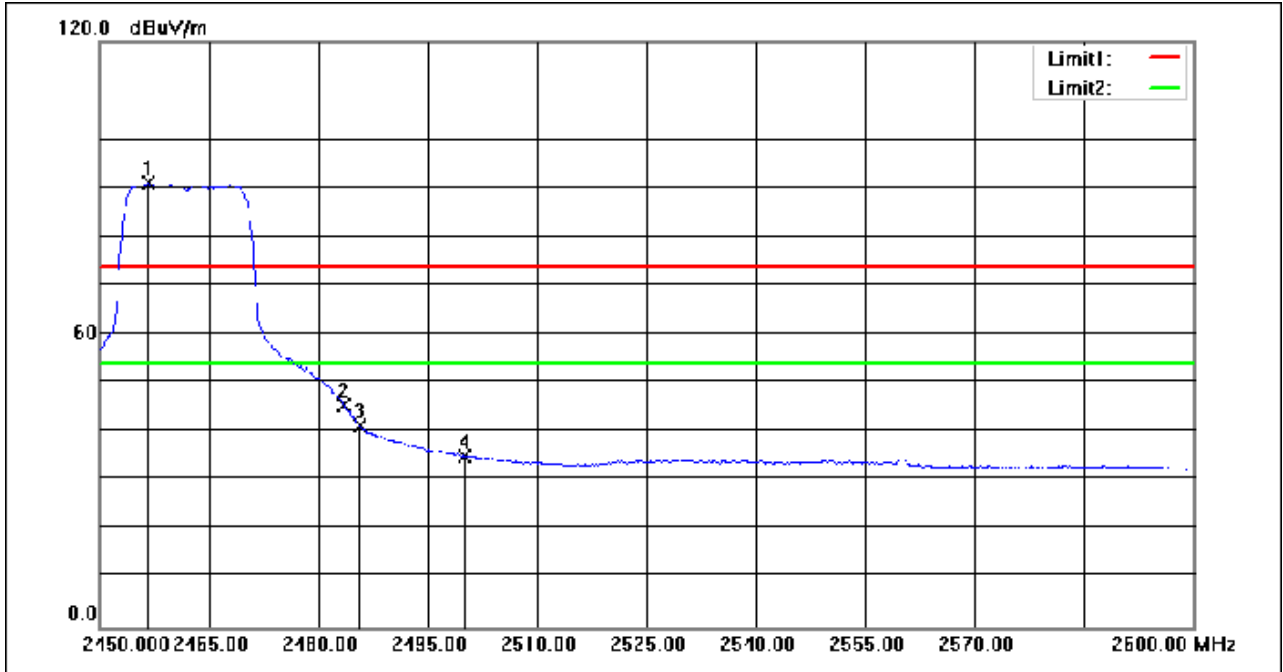


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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2456.600	109.50	-18.54	90.96	54.00	36.96	AVG
2	2483.500	64.02	-18.45	45.57	54.00	-8.43	AVG
3	2485.700	59.74	-18.44	41.30	54.00	-12.70	AVG
4	2500.000	53.38	-18.38	35.00	54.00	-19.00	AVG



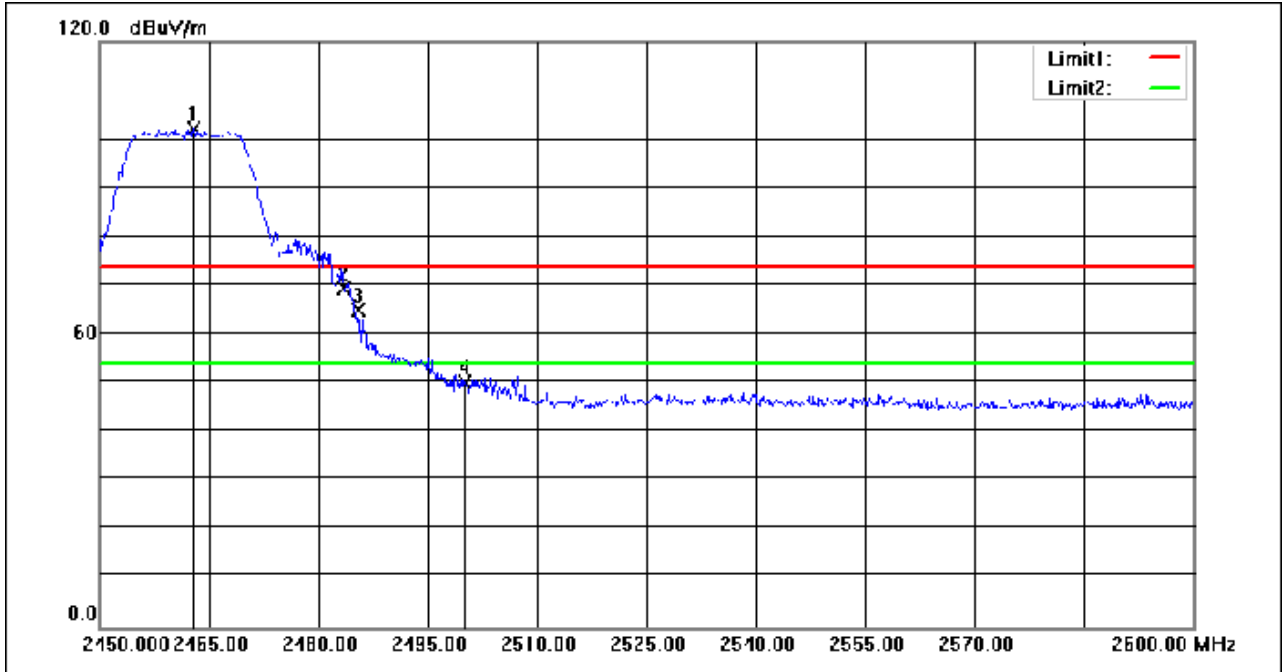
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 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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	2462.900	120.75	-18.52	102.23	74.00	28.23	peak
2	2483.500	87.89	-18.45	69.44	74.00	-4.56	peak
3	2485.550	83.50	-18.44	65.06	74.00	-8.94	peak
4	2500.000	68.52	-18.38	50.14	74.00	-23.86	peak



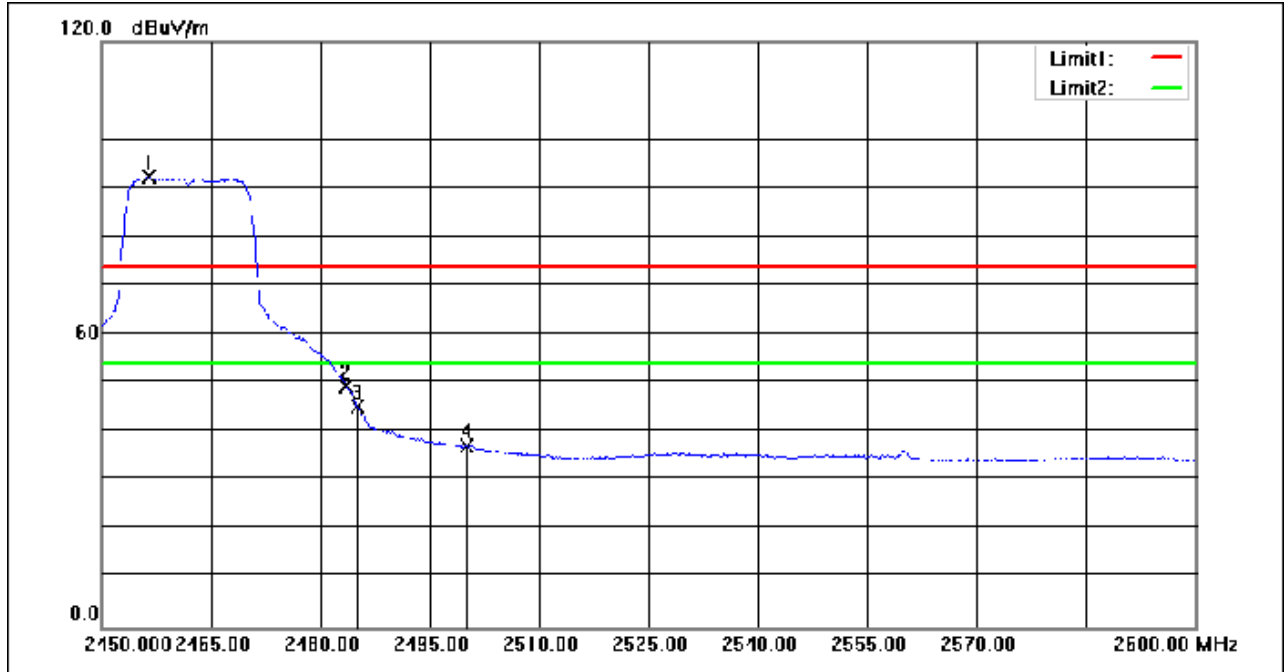
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2456.450	110.79	-18.54	92.25	54.00	38.25	AVG
2	2483.500	67.71	-18.45	49.26	54.00	-4.74	AVG
3	2485.100	63.64	-18.44	45.20	54.00	-8.80	AVG
4	2500.000	55.37	-18.38	36.99	54.00	-17.01	AVG



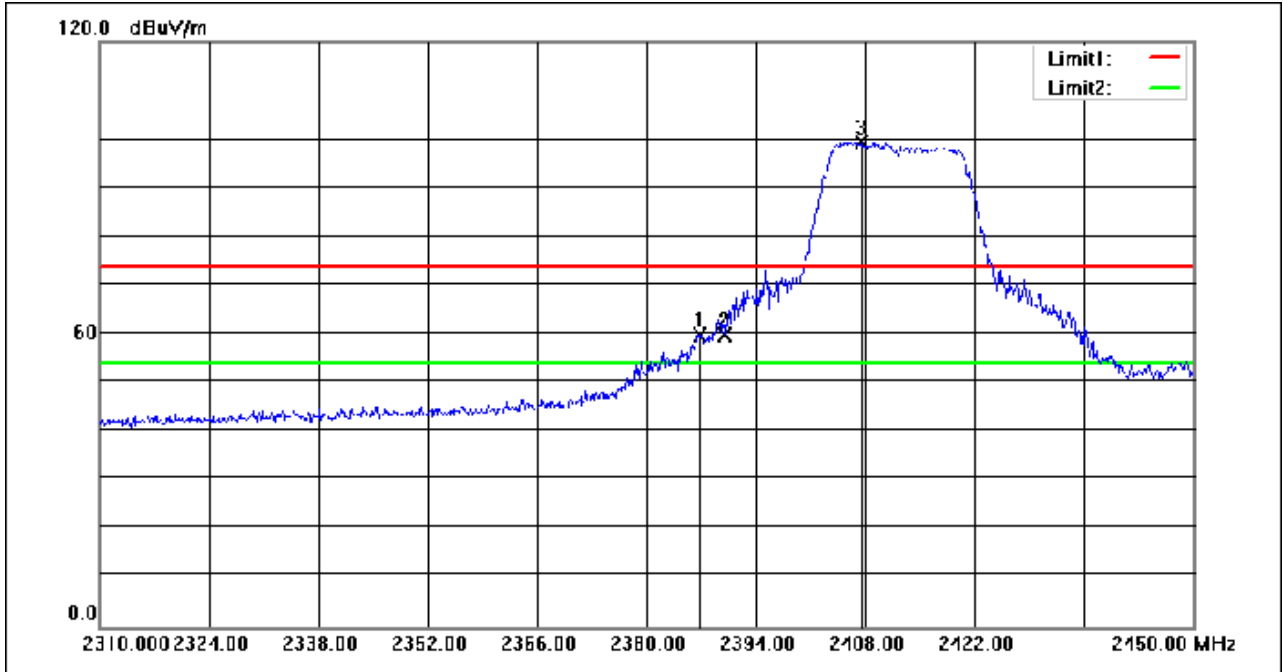
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.720	78.60	-18.76	59.84	74.00	-14.16	peak
2	2390.000	78.69	-18.75	59.94	74.00	-14.06	peak
3	2407.580	118.09	-18.72	99.37	74.00	25.37	peak



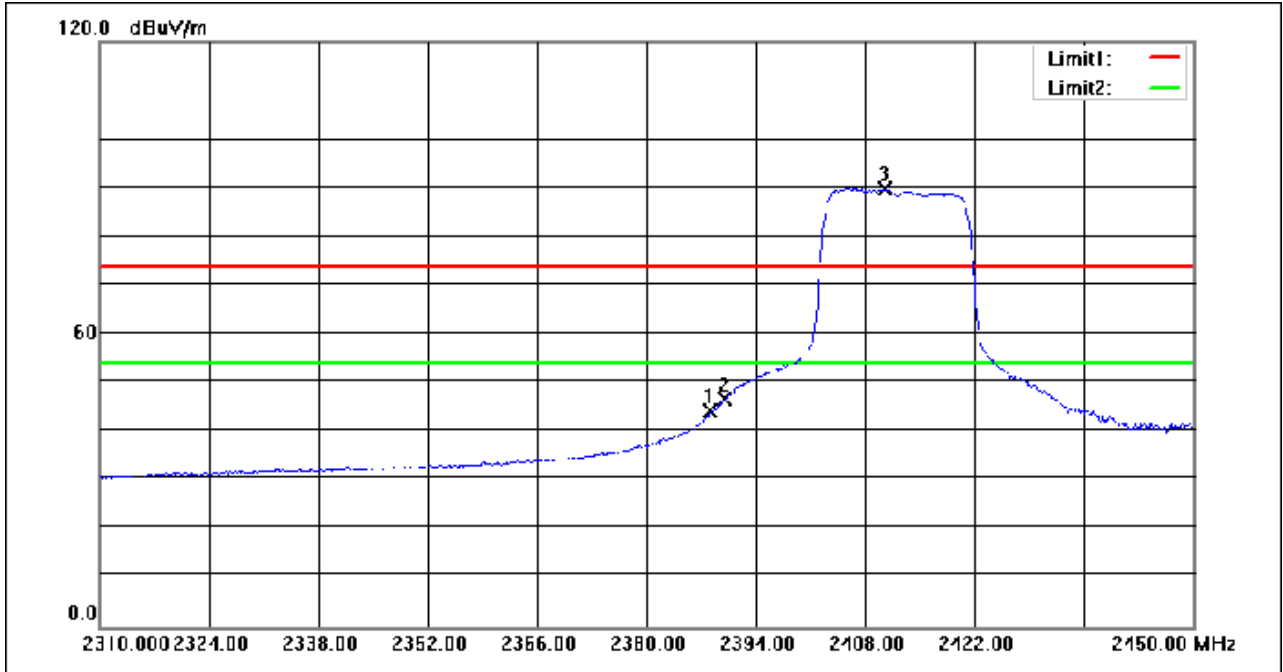
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.120	62.88	-18.75	44.13	54.00	-9.87	AVG
2	2390.000	65.46	-18.75	46.71	54.00	-7.29	AVG
3	2410.520	108.52	-18.71	89.81	54.00	35.81	AVG

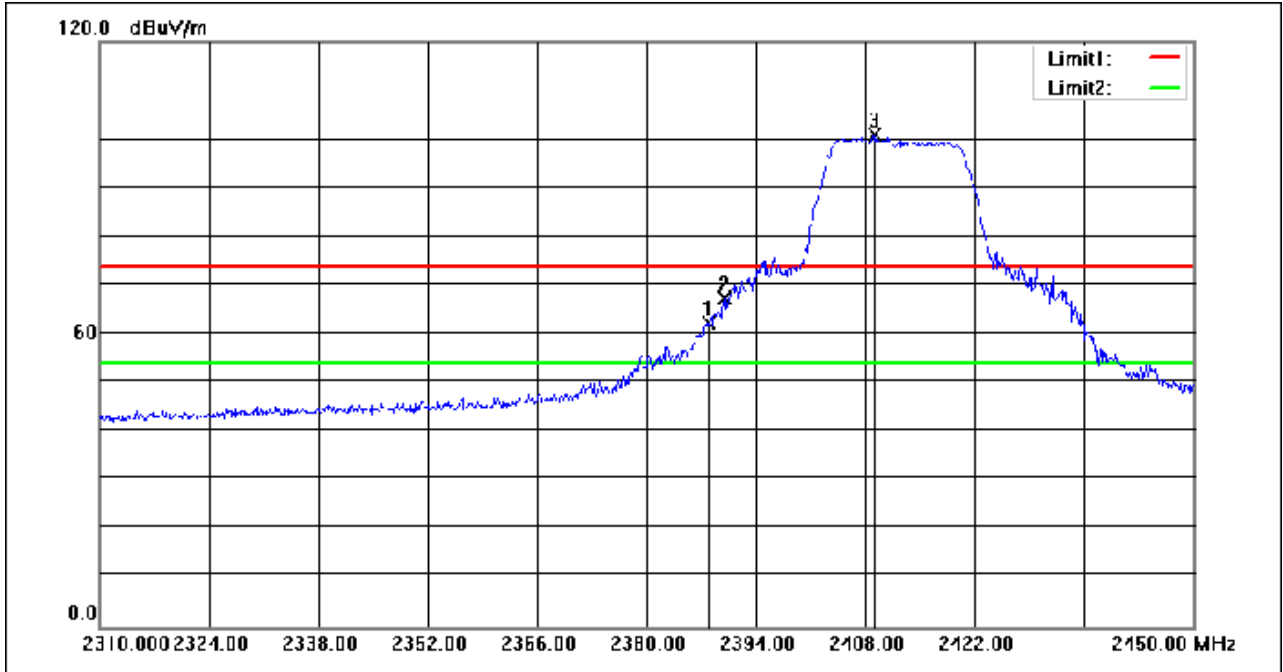


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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.980	80.97	-18.76	62.21	74.00	-11.79	peak
2	2390.000	86.03	-18.75	67.28	74.00	-6.72	peak
3	2409.120	119.62	-18.71	100.91	74.00	26.91	peak



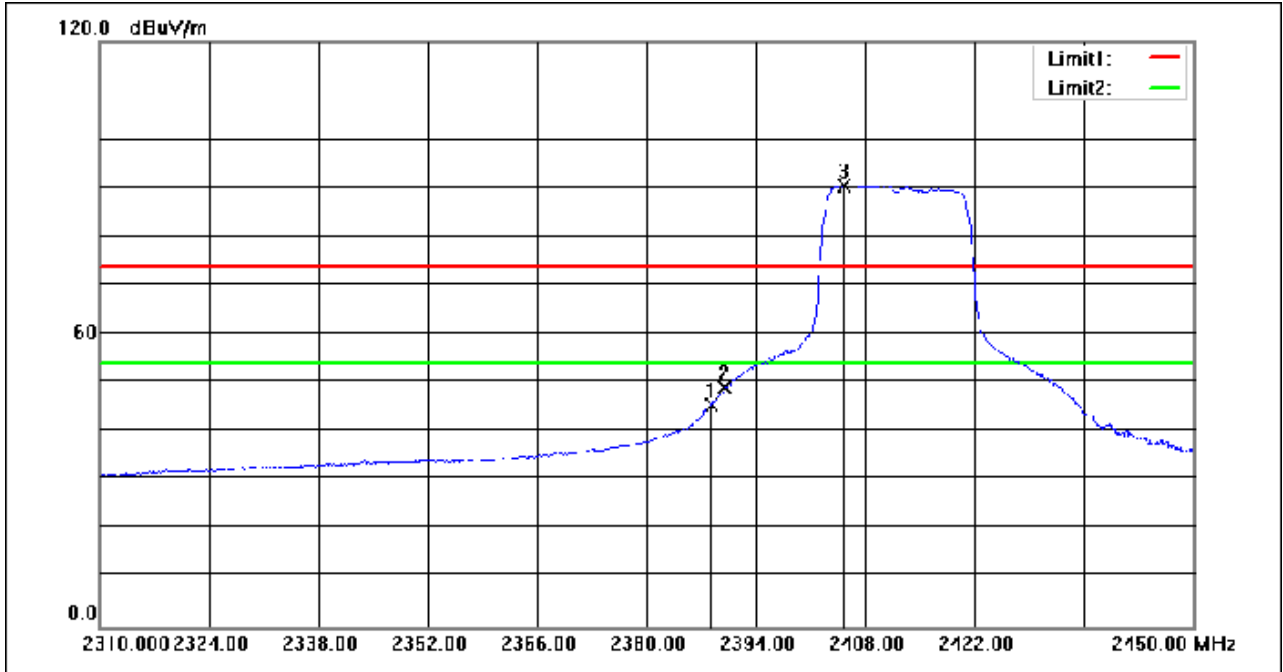
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.260	64.19	-18.75	45.44	54.00	-8.56	AVG
2	2390.000	67.75	-18.75	49.00	54.00	-5.00	AVG
3	2405.340	109.28	-18.74	90.54	54.00	36.54	AVG



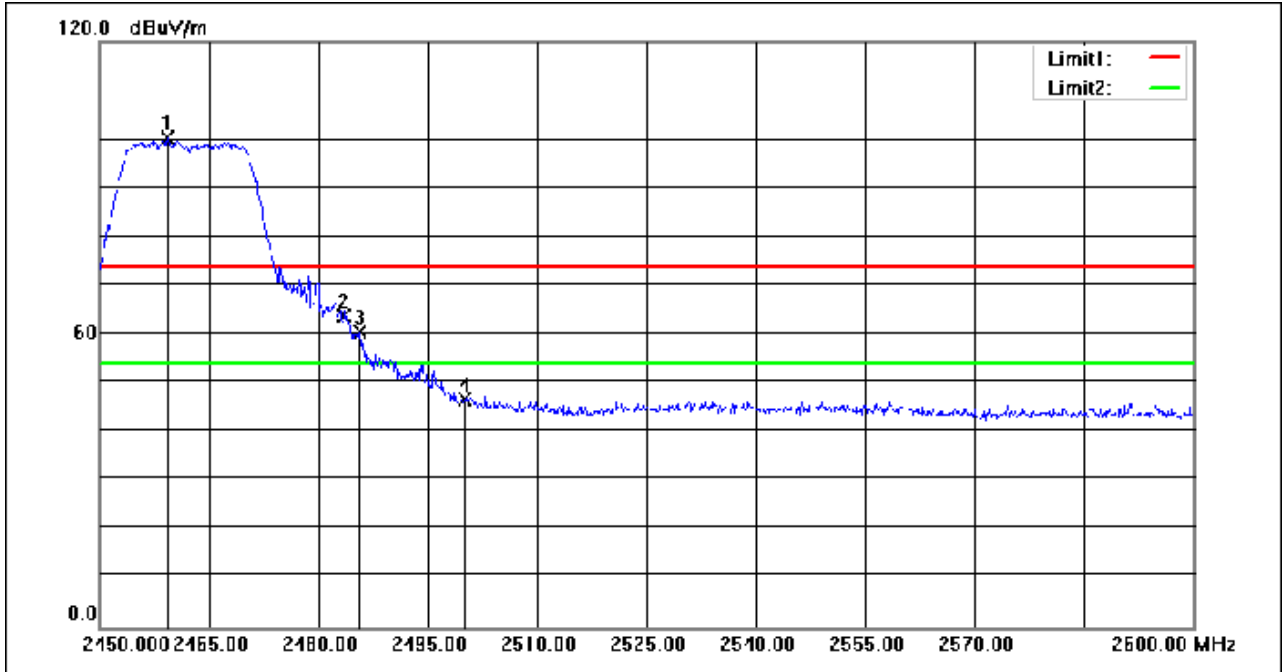
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.300	118.88	-18.53	100.35	74.00	26.35	peak
2	2483.500	82.12	-18.45	63.67	74.00	-10.33	peak
3	2485.700	79.01	-18.44	60.57	74.00	-13.43	peak
4	2500.000	64.90	-18.38	46.52	74.00	-27.48	peak



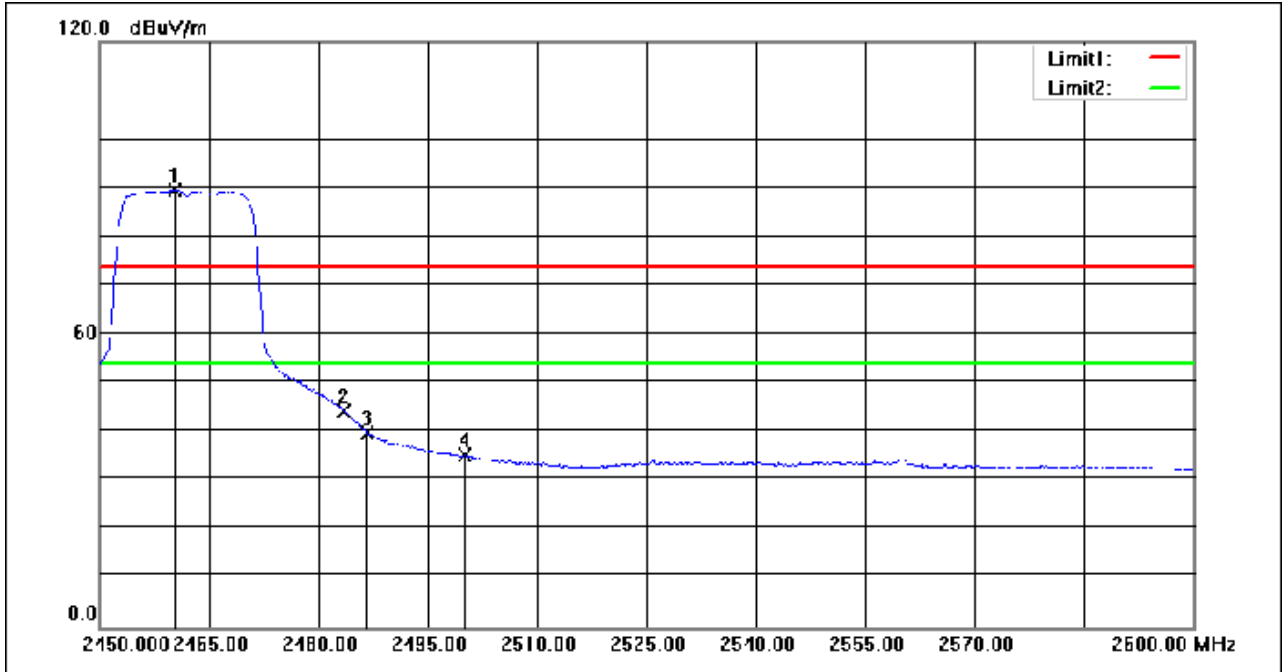
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.350	108.23	-18.53	89.70	54.00	35.70	AVG
2	2483.500	62.71	-18.45	44.26	54.00	-9.74	AVG
3	2486.750	58.23	-18.44	39.79	54.00	-14.21	AVG
4	2500.000	53.59	-18.38	35.21	54.00	-18.79	AVG



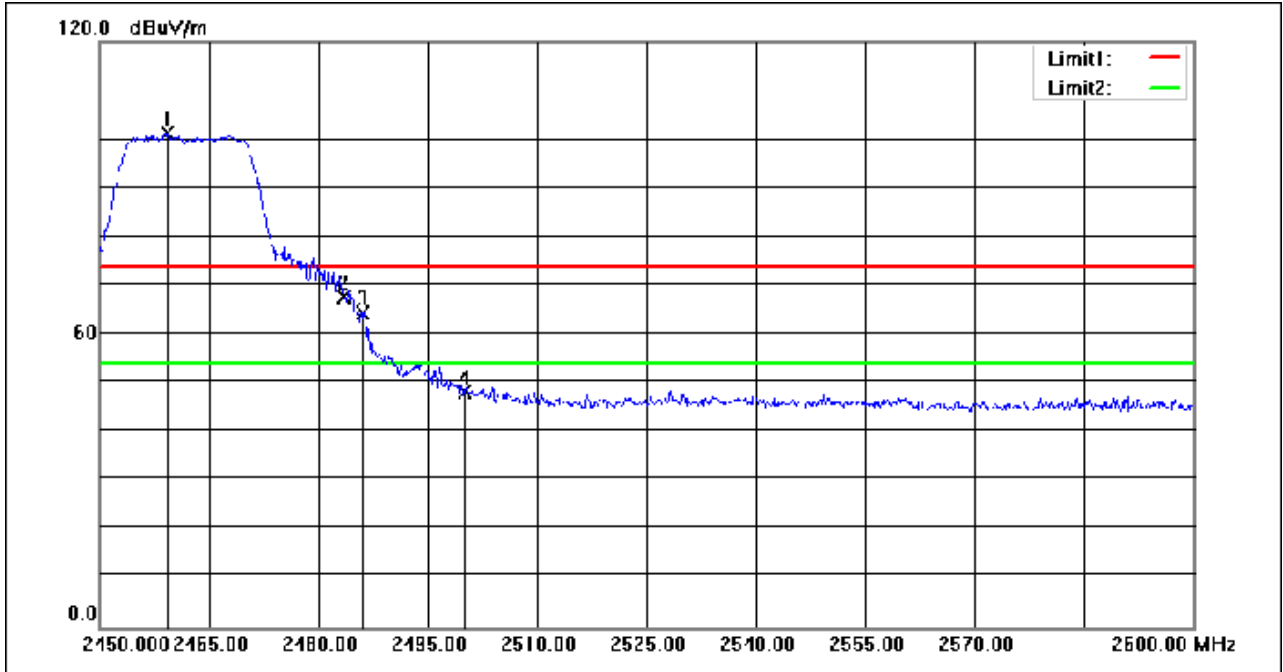
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.300	119.92	-18.53	101.39	74.00	27.39	peak
2	2483.500	85.97	-18.45	67.52	74.00	-6.48	peak
3	2486.000	82.84	-18.44	64.40	74.00	-9.60	peak
4	2500.000	66.47	-18.38	48.09	74.00	-25.91	peak



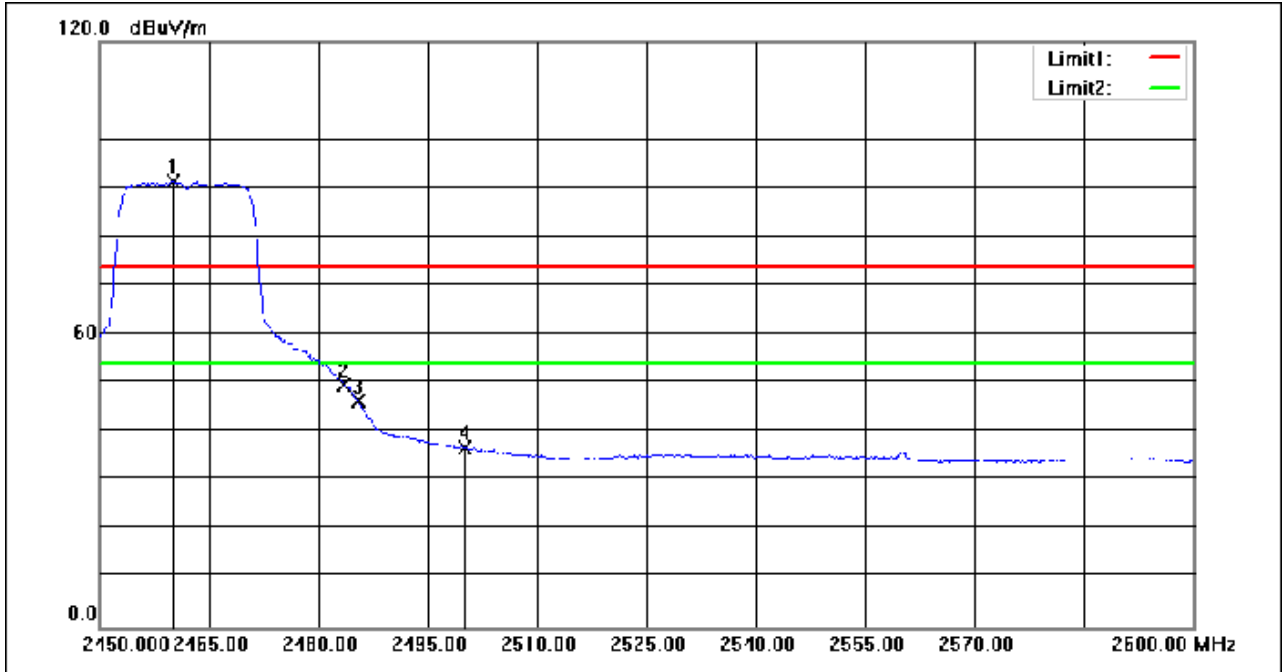
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1	2460.050	109.79	-18.53	91.26	54.00	37.26	AVG
2	2483.500	68.11	-18.45	49.66	54.00	-4.34	AVG
3	2485.550	64.69	-18.44	46.25	54.00	-7.75	AVG
4	2500.000	55.24	-18.38	36.86	54.00	-17.14	AVG



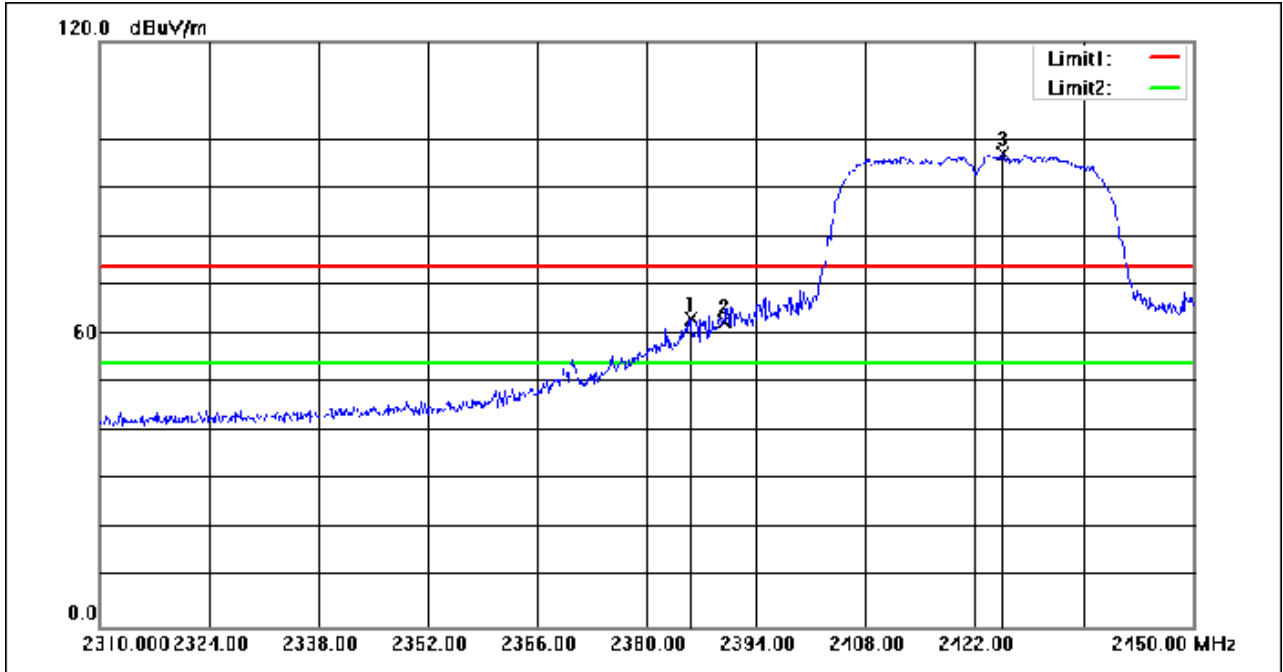
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.600	81.85	-18.76	63.09	74.00	-10.91	peak
2	2390.000	81.34	-18.75	62.59	74.00	-11.41	peak
3	2425.640	115.83	-18.66	97.17	74.00	23.17	peak



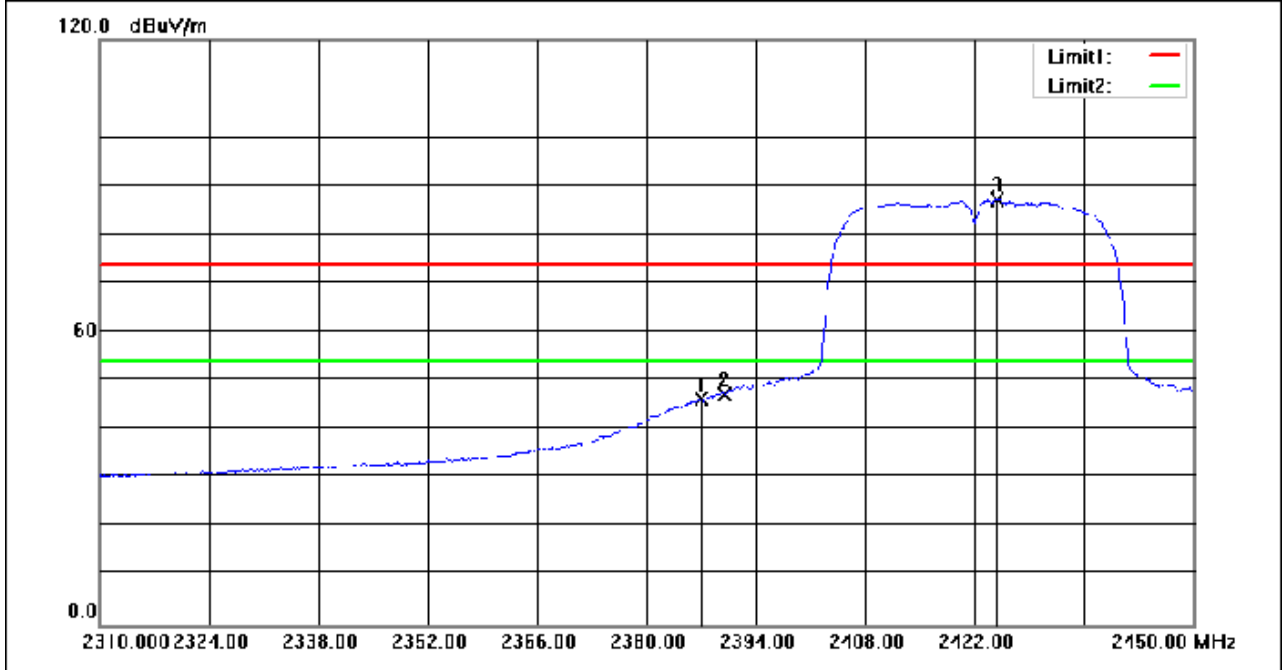
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.000	64.99	-18.76	46.23	54.00	-7.77	AVG
2	2390.000	66.13	-18.75	47.38	54.00	-6.62	AVG
3	2424.800	105.81	-18.66	87.15	54.00	33.15	AVG



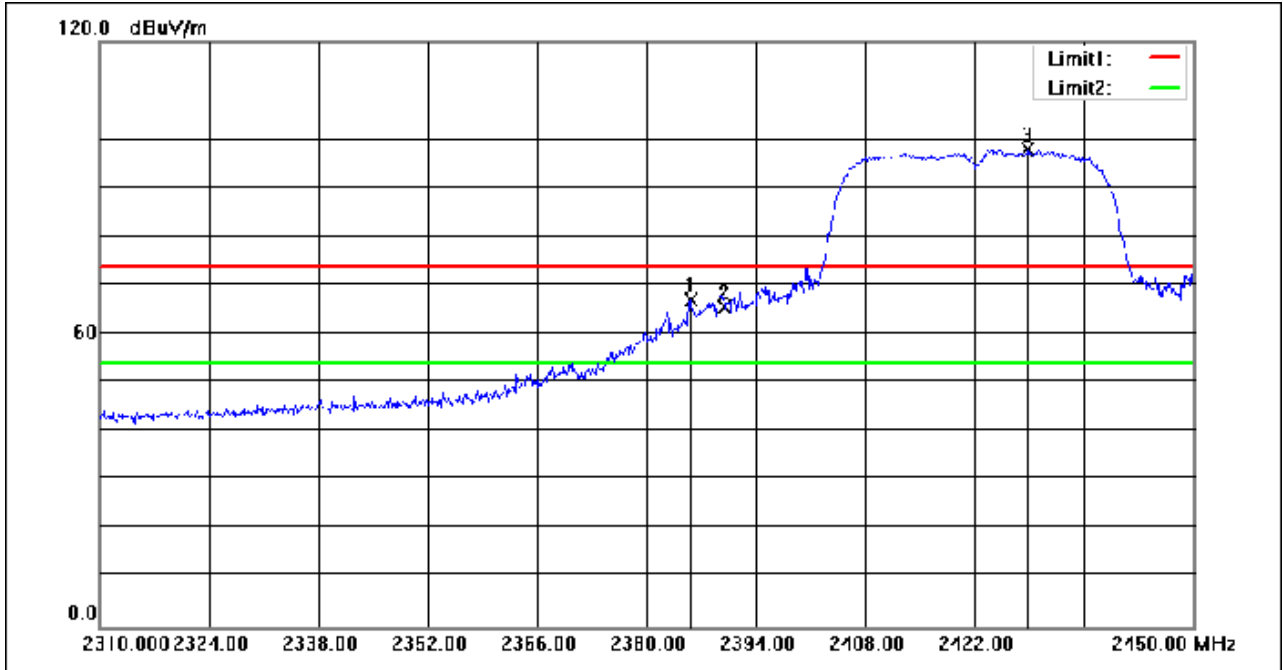
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.600	85.88	-18.76	67.12	74.00	-6.88	peak
2	2390.000	84.15	-18.75	65.40	74.00	-8.60	peak
3	2428.860	116.53	-18.65	97.88	74.00	23.88	peak



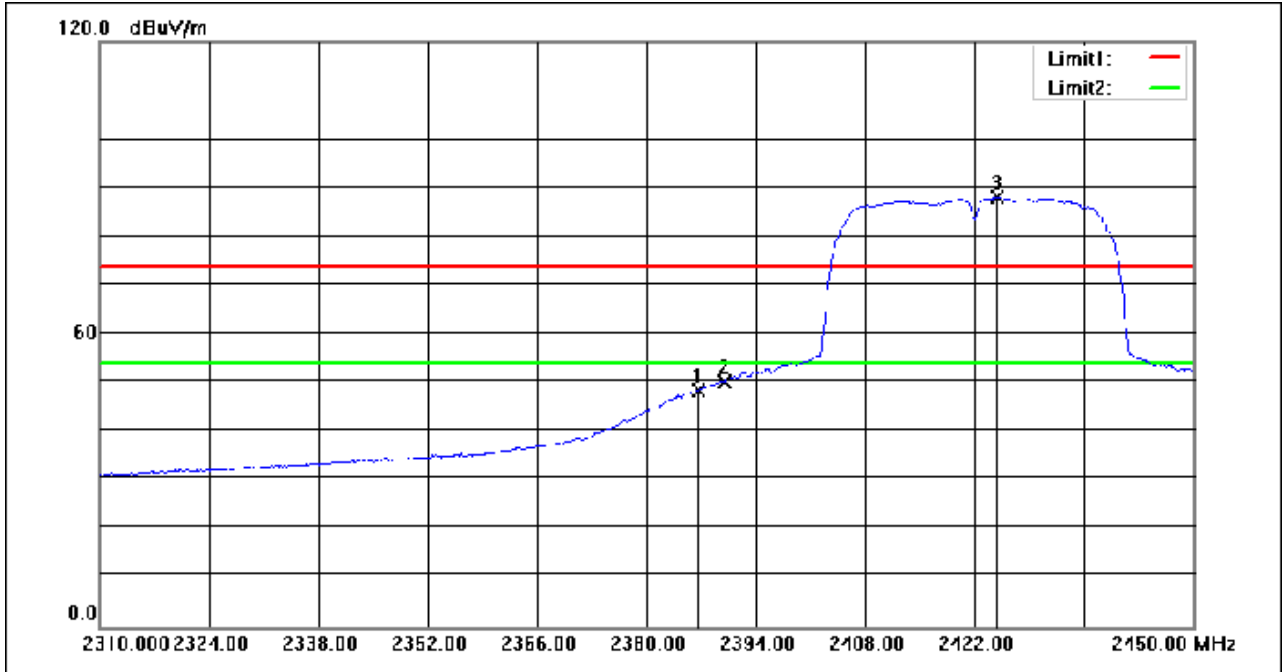
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.580	67.19	-18.76	48.43	54.00	-5.57	AVG
2	2390.000	68.86	-18.75	50.11	54.00	-3.89	AVG
3	2424.800	106.86	-18.66	88.20	54.00	34.20	AVG

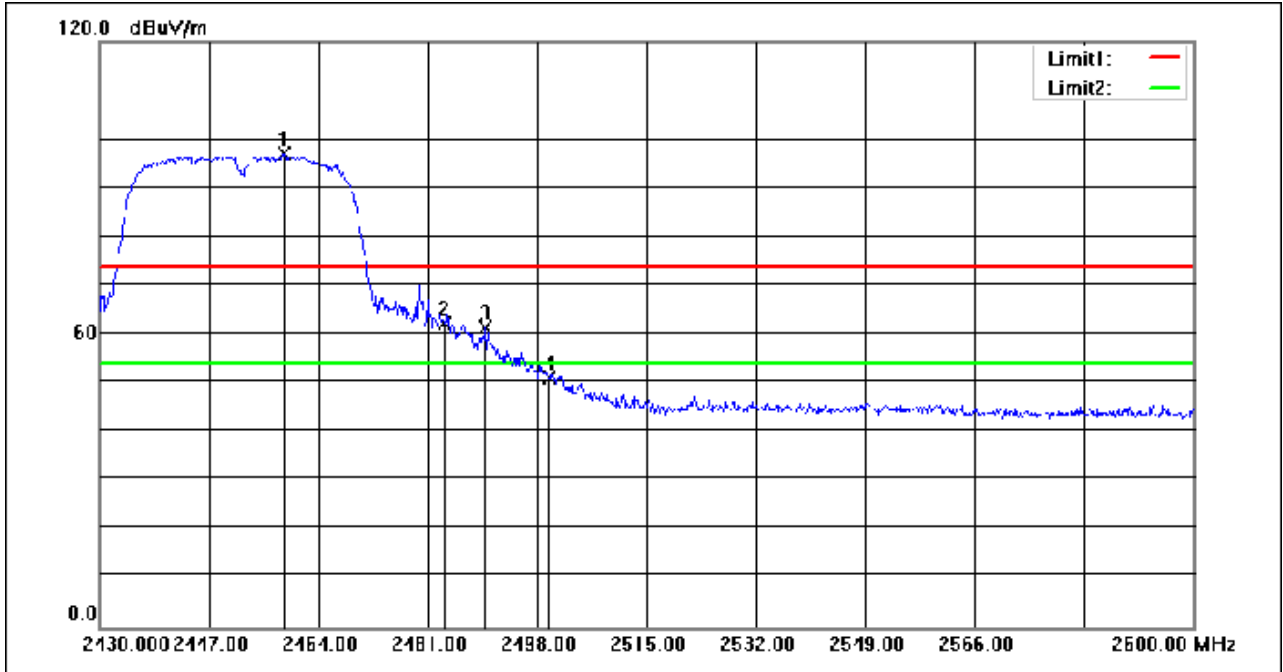


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2458.560	115.57	-18.54	97.03	74.00	23.03	peak
2	2483.500	80.63	-18.45	62.18	74.00	-11.82	peak
3	2490.010	79.73	-18.42	61.31	74.00	-12.69	peak
4	2500.000	69.46	-18.38	51.08	74.00	-22.92	peak



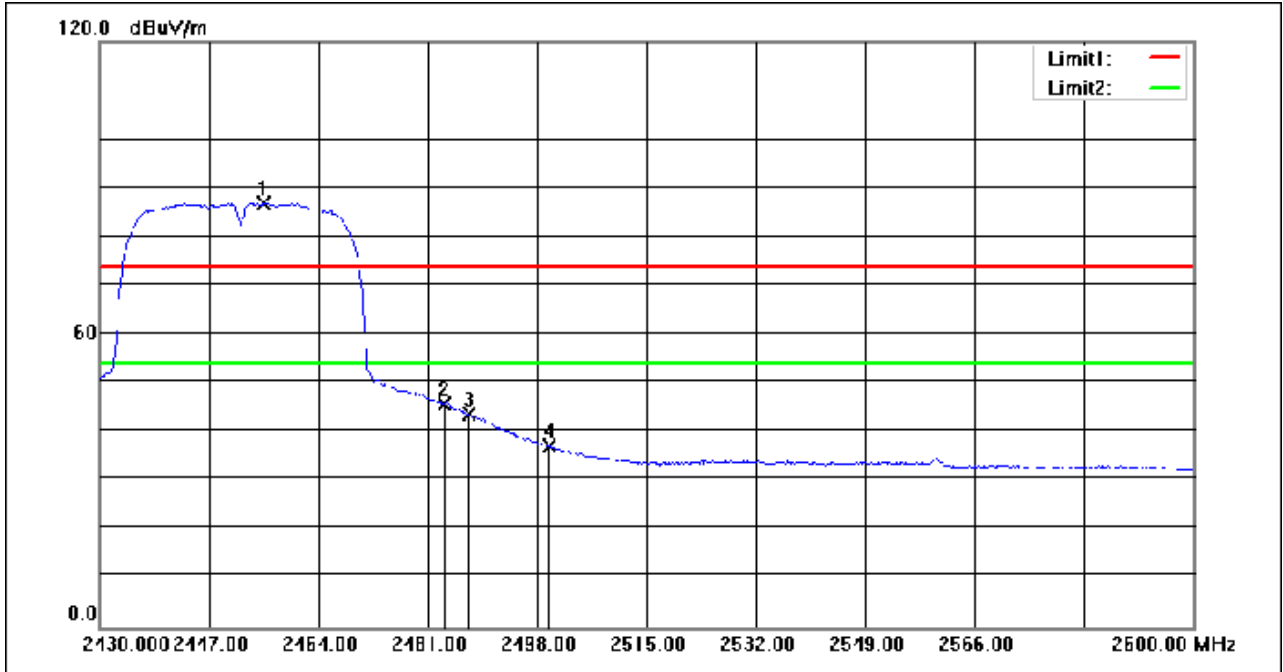
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2455.500	105.49	-18.54	86.95	54.00	32.95	AVG
2	2483.500	64.10	-18.45	45.65	54.00	-8.35	AVG
3	2487.460	62.03	-18.44	43.59	54.00	-10.41	AVG
4	2500.000	55.39	-18.38	37.01	54.00	-16.99	AVG

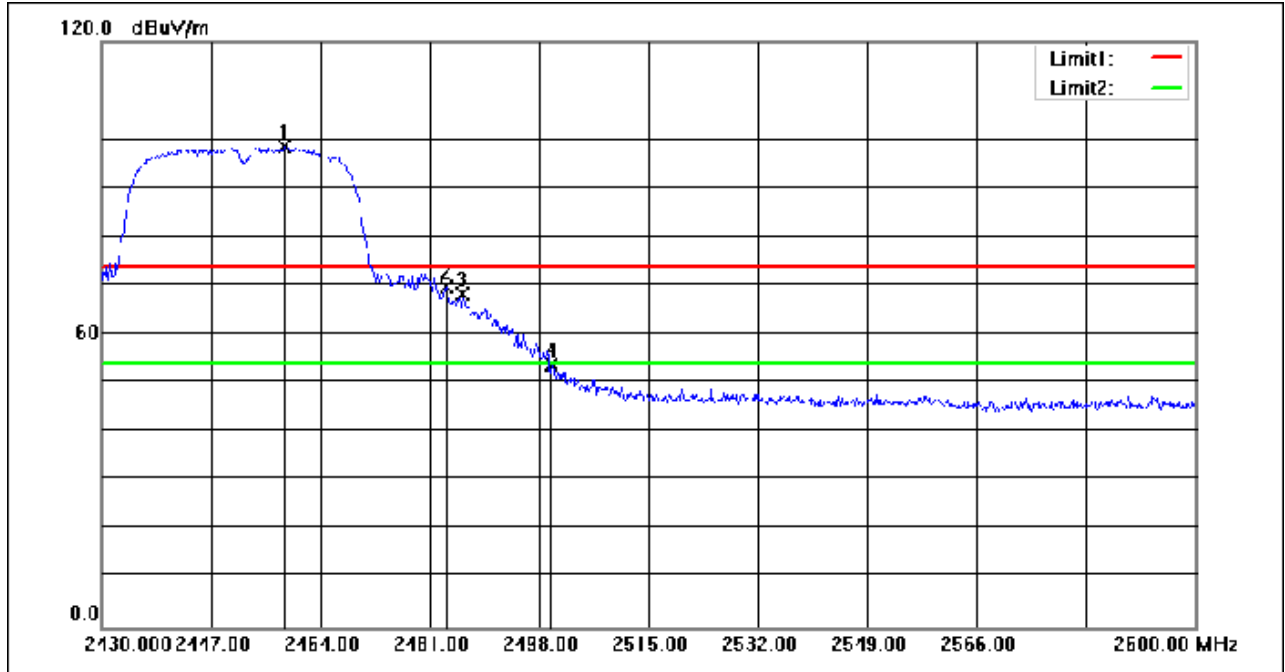


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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2458.390	117.02	-18.54	98.48	74.00	24.48	peak
2	2483.500	88.20	-18.45	69.75	74.00	-4.25	peak
3	2486.100	86.67	-18.44	68.23	74.00	-5.77	peak
4	2500.000	72.12	-18.38	53.74	74.00	-20.26	peak

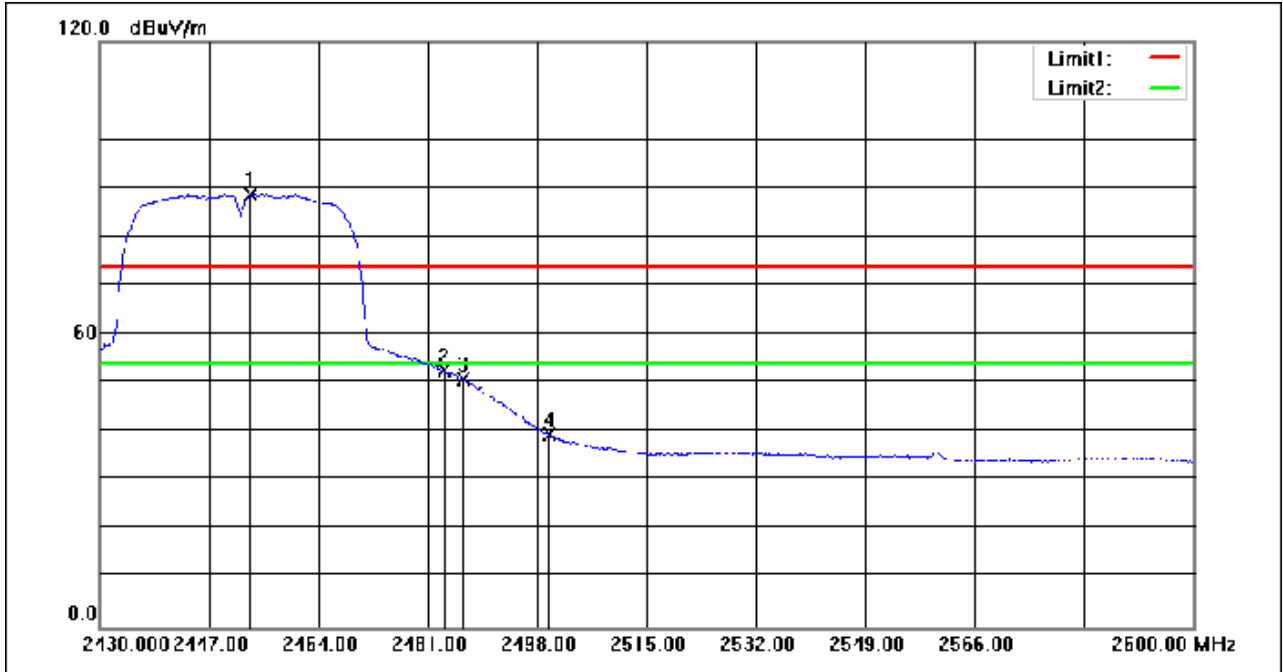


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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2453.460	107.27	-18.55	88.72	54.00	34.72	AVG
2	2483.500	70.97	-18.45	52.52	54.00	-1.48	AVG
3	2486.610	69.40	-18.44	50.96	54.00	-3.04	AVG
4	2500.000	57.70	-18.38	39.32	54.00	-14.68	AVG



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7.7 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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 57.6 % 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.

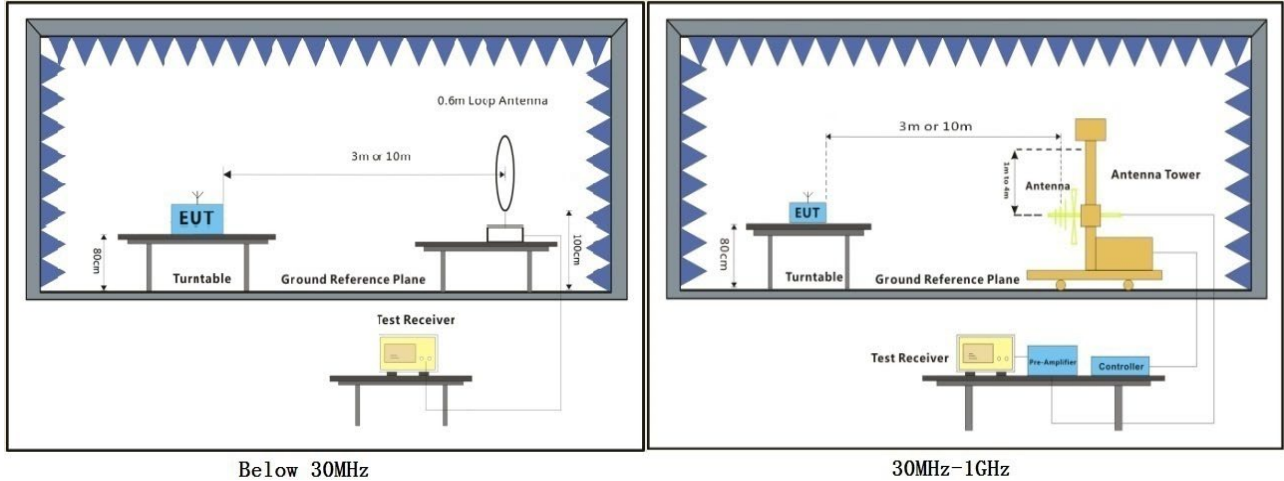


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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

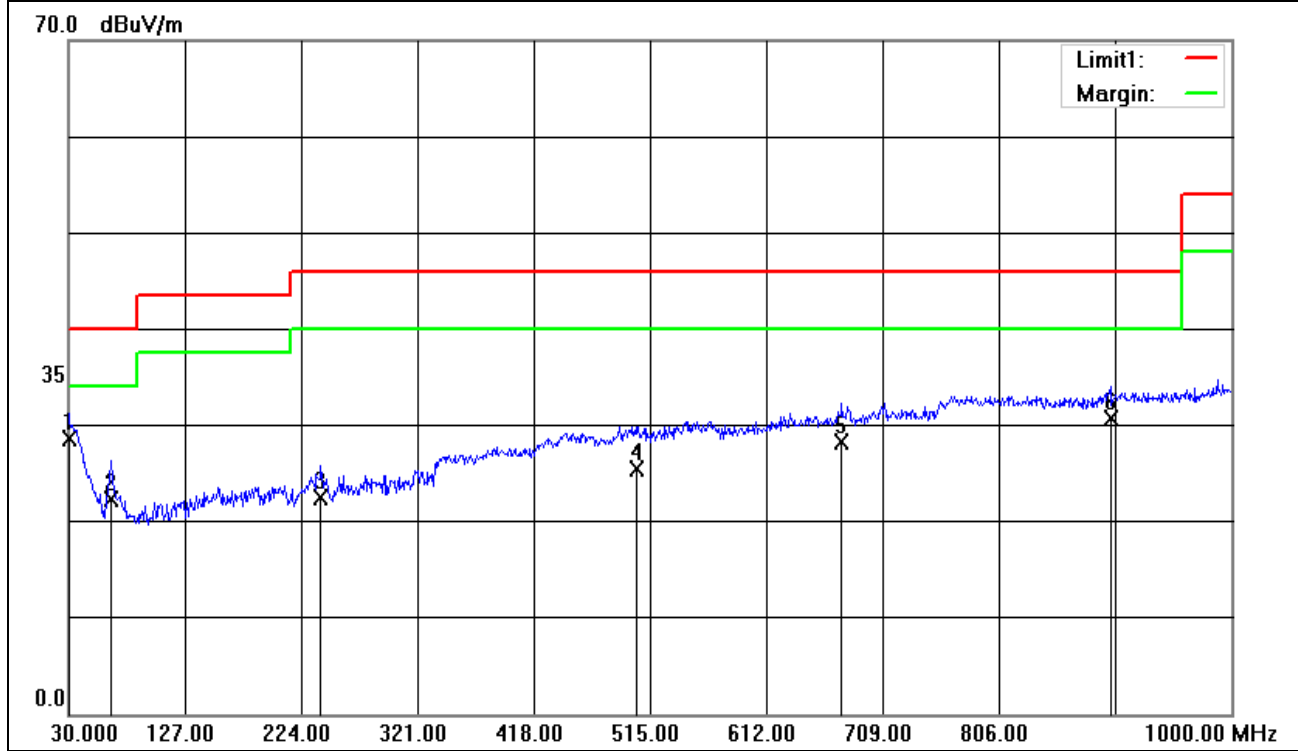
- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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Test Mode: 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	30.0000	3.41	25.25	28.66	40.00	-11.34	100	41	QP
2	65.8900	7.25	15.12	22.37	40.00	-17.63	100	255	QP
3	240.4900	3.71	18.79	22.50	46.00	-23.50	100	314	QP
4	503.3600	-0.29	25.76	25.47	46.00	-20.53	100	99	QP
5	675.0500	25.92	2.43	28.35	46.00	-17.65	100	10	QP
6	899.1200	28.30	2.44	30.74	46.00	-15.26	100	255	QP



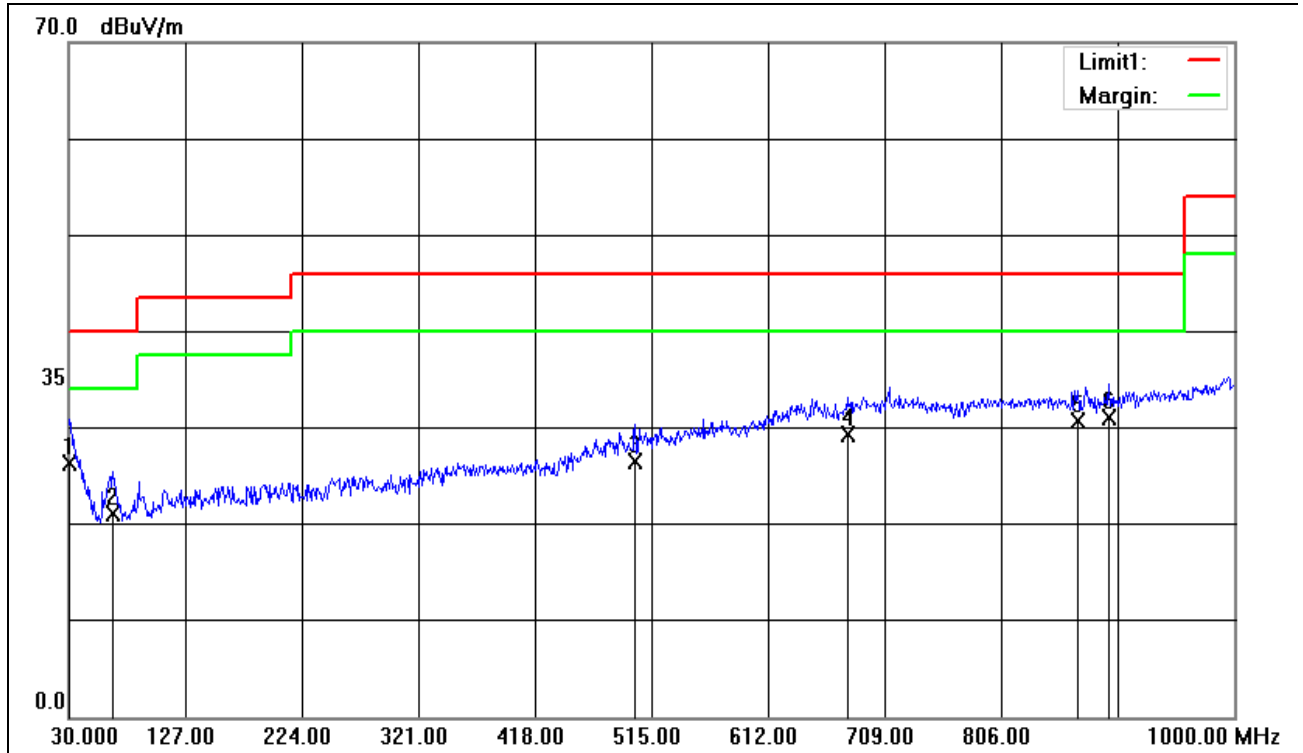
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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	30.0000	1.11	25.25	26.36	40.00	-13.64	100	26	QP
2	66.8600	5.72	15.30	21.02	40.00	-18.98	100	254	QP
3	501.4200	0.80	25.75	26.55	46.00	-19.45	100	155	QP
4	677.9600	26.90	2.43	29.33	46.00	-16.67	100	109	QP
5	870.0200	28.48	2.26	30.74	46.00	-15.26	100	226	QP
6	895.2400	28.67	2.42	31.09	46.00	-14.91	100	21	QP



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7.8 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

7.8.1 E.U.T. Operation

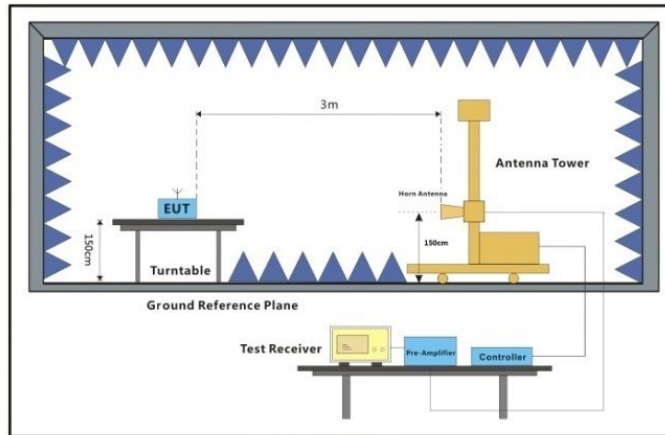
Operating Environment:

Temperature: 22.7 °C Humidity: 57.5 % 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.

7.8.3 Test Setup Diagram



Above 1GHz



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7.8.4 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.

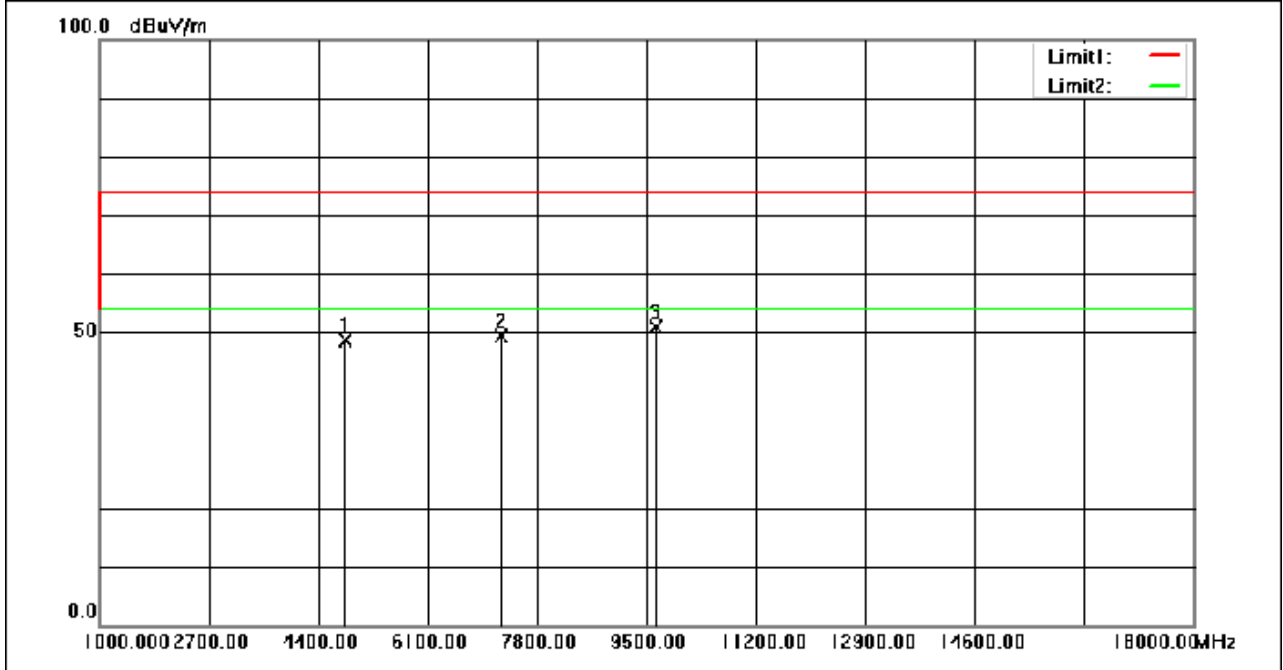


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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.44	-8.78	48.66	74.00	-25.34	peak
2	7236.000	55.25	-5.86	49.39	74.00	-24.61	peak
3	9648.000	52.14	-1.31	50.83	74.00	-23.17	peak

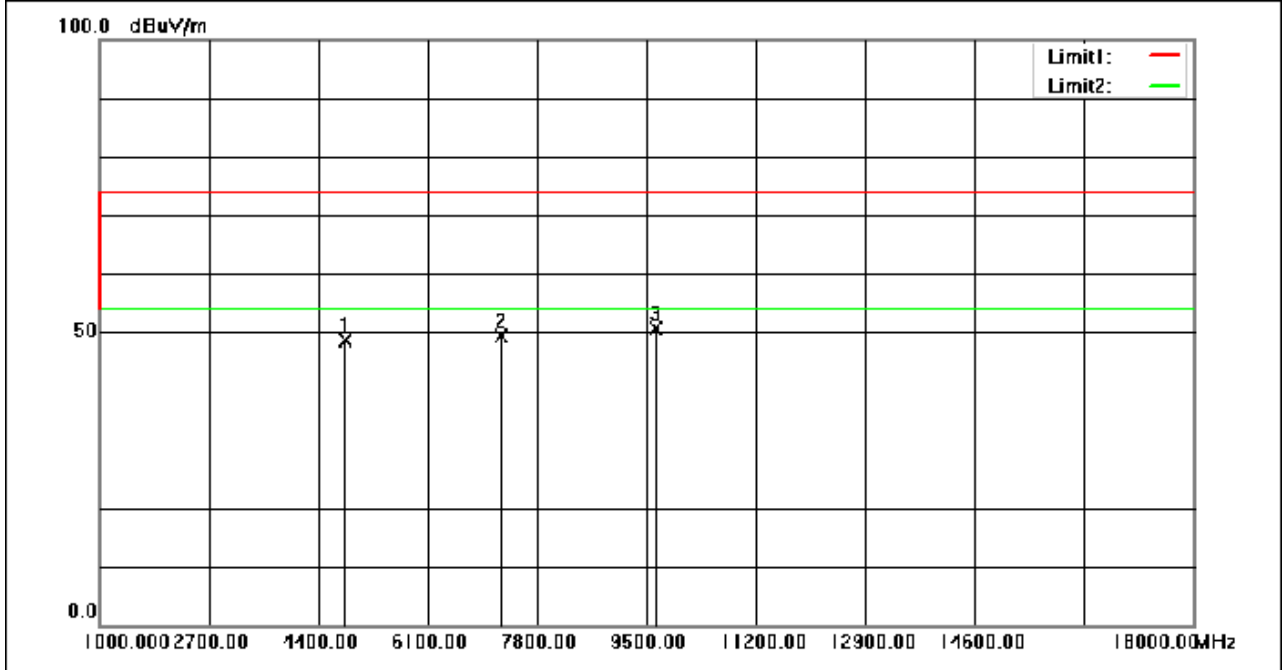


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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.50	-8.78	48.72	74.00	-25.28	peak
2	7236.000	55.22	-5.86	49.36	74.00	-24.64	peak
3	9648.000	52.01	-1.31	50.70	74.00	-23.30	peak



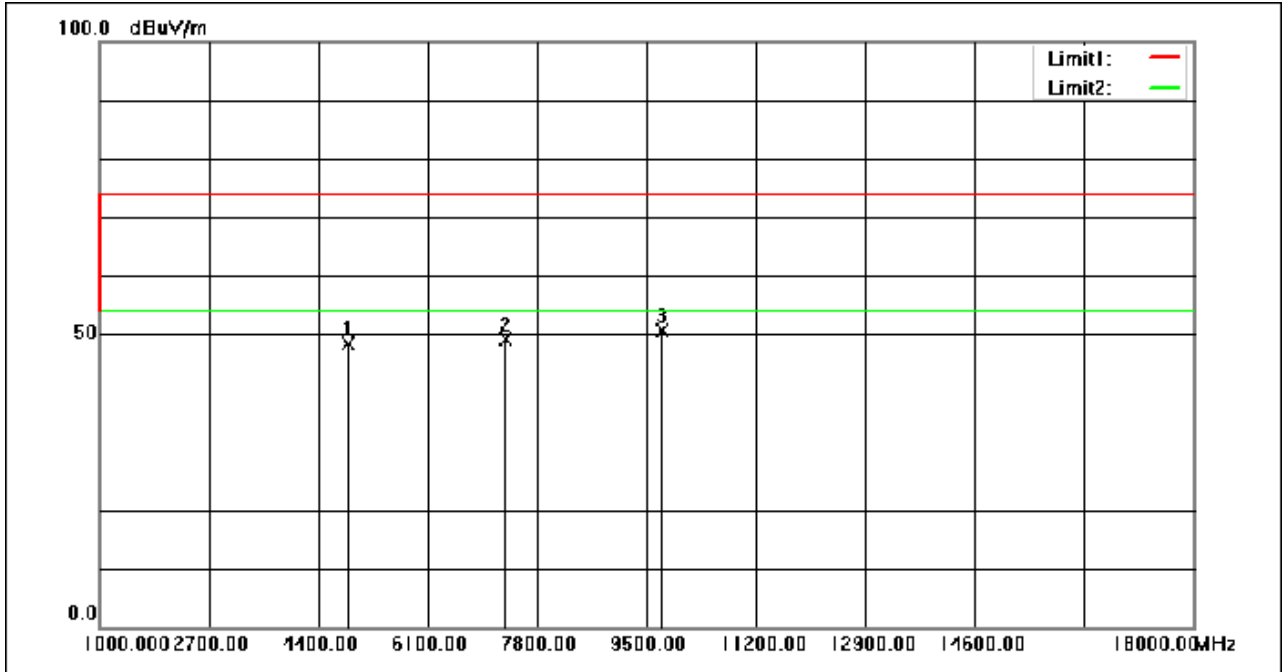
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.10	-8.61	48.49	74.00	-25.51	peak
2	7311.000	54.86	-5.78	49.08	74.00	-24.92	peak
3	9748.000	52.10	-1.43	50.67	74.00	-23.33	peak



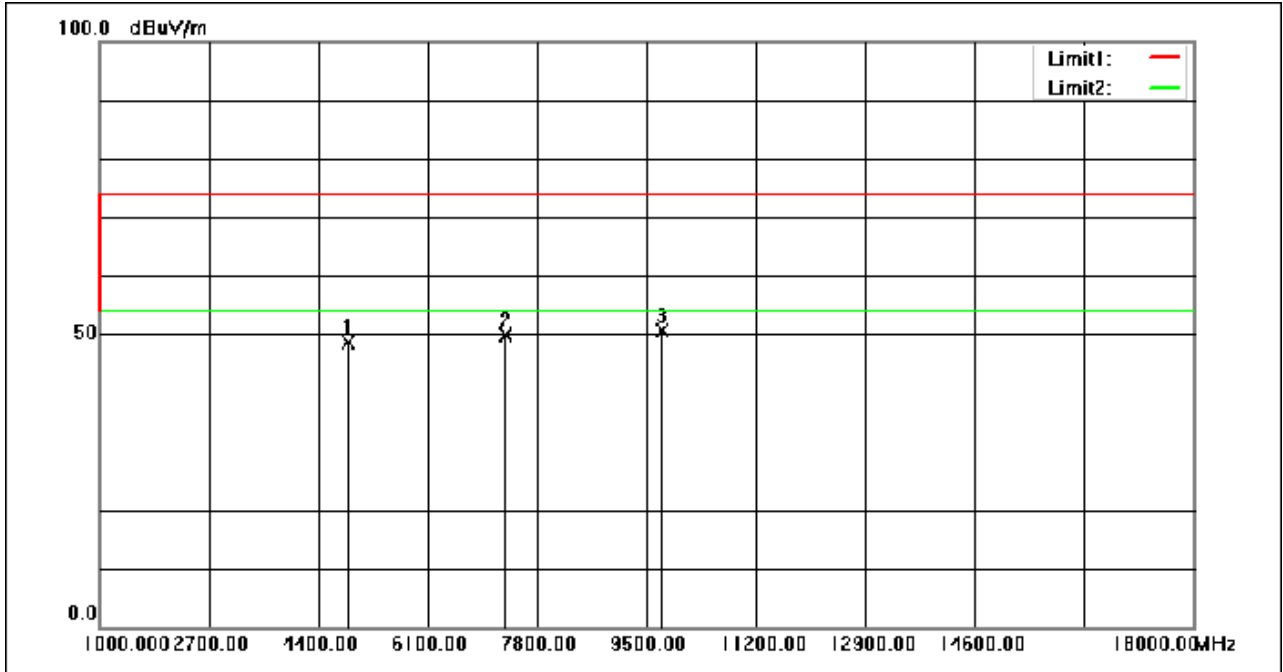
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.24	-8.61	48.63	74.00	-25.37	peak
2	7311.000	55.71	-5.78	49.93	74.00	-24.07	peak
3	9748.000	52.06	-1.43	50.63	74.00	-23.37	peak



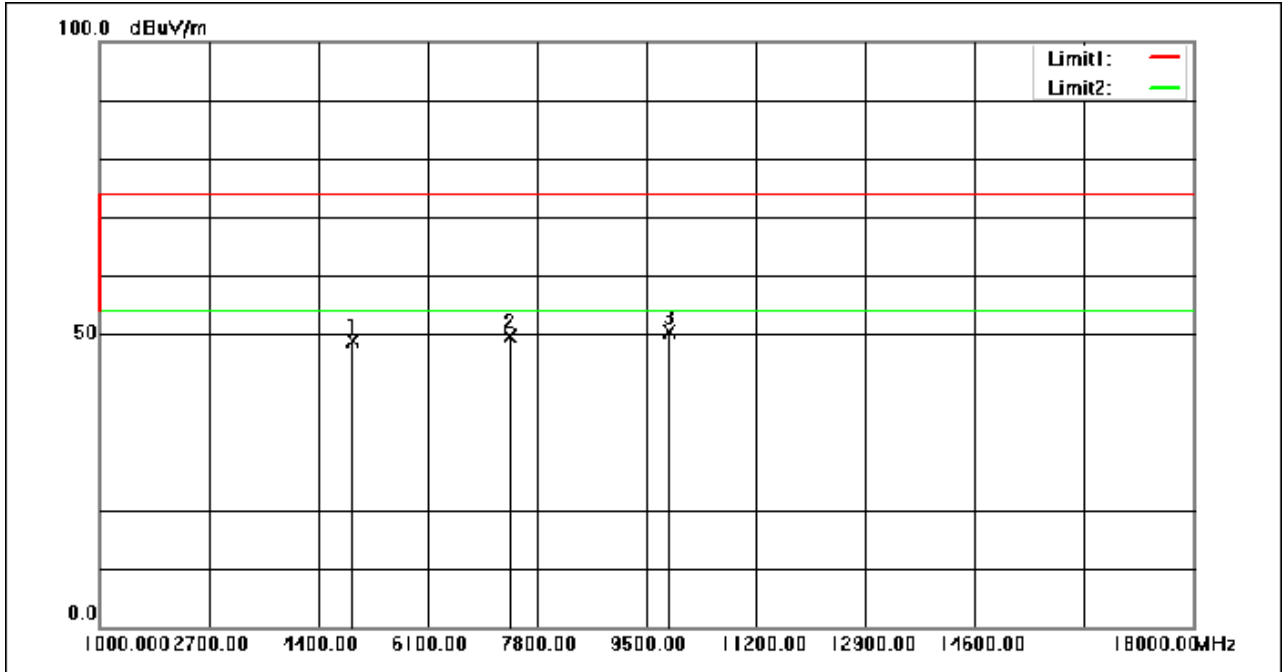
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	57.38	-8.44	48.94	74.00	-25.06	peak
2	7386.000	55.24	-5.69	49.55	74.00	-24.45	peak
3	9848.000	51.62	-1.27	50.35	74.00	-23.65	peak



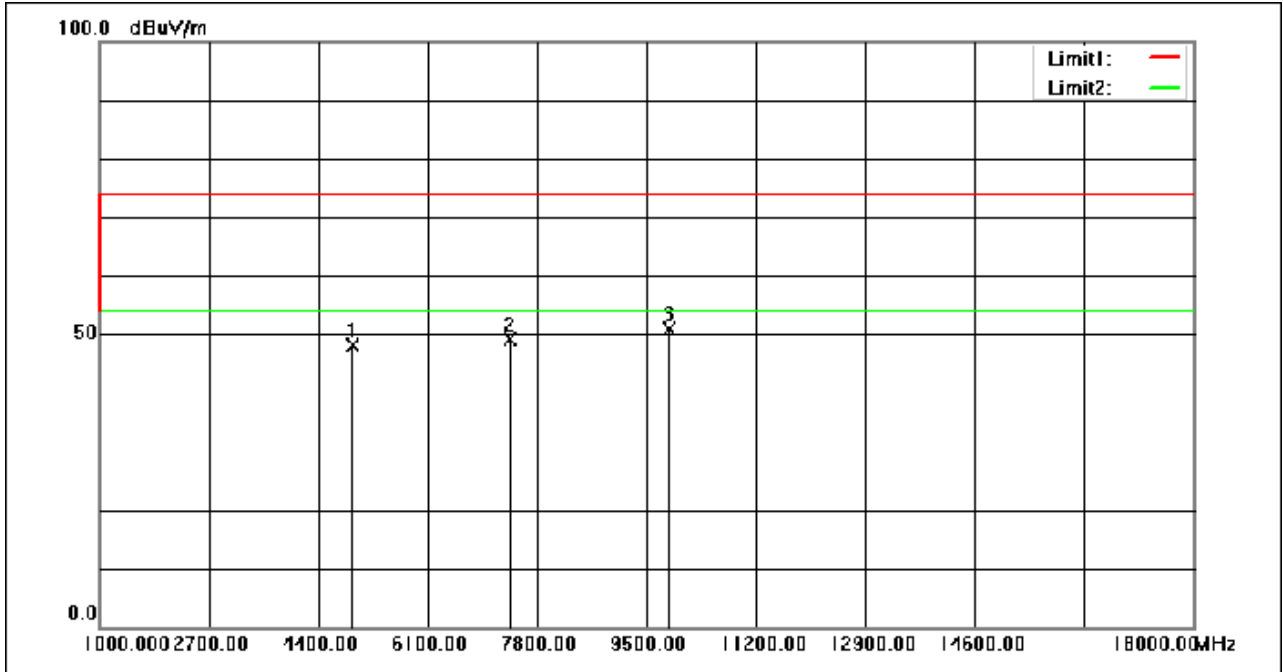
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	56.55	-8.44	48.11	74.00	-25.89	peak
2	7386.000	54.94	-5.69	49.25	74.00	-24.75	peak
3	9848.000	52.13	-1.27	50.86	74.00	-23.14	peak

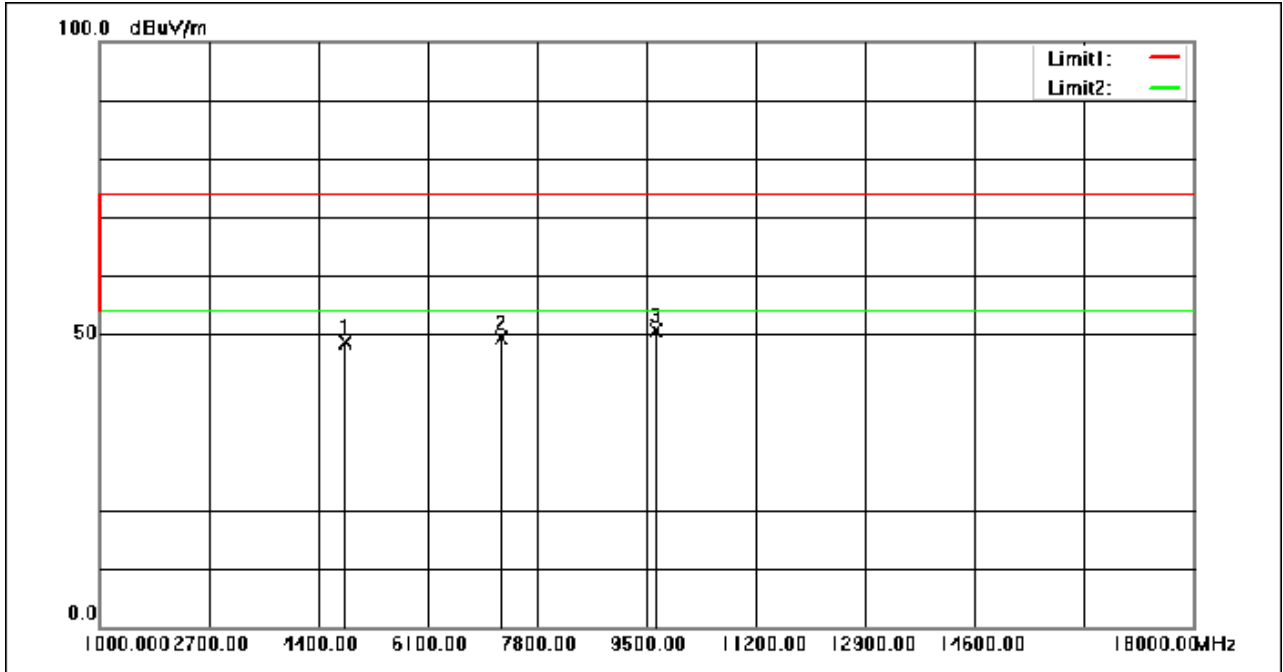


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.37	-8.78	48.59	74.00	-25.41	peak
2	7236.000	55.19	-5.86	49.33	74.00	-24.67	peak
3	9648.000	51.99	-1.31	50.68	74.00	-23.32	peak



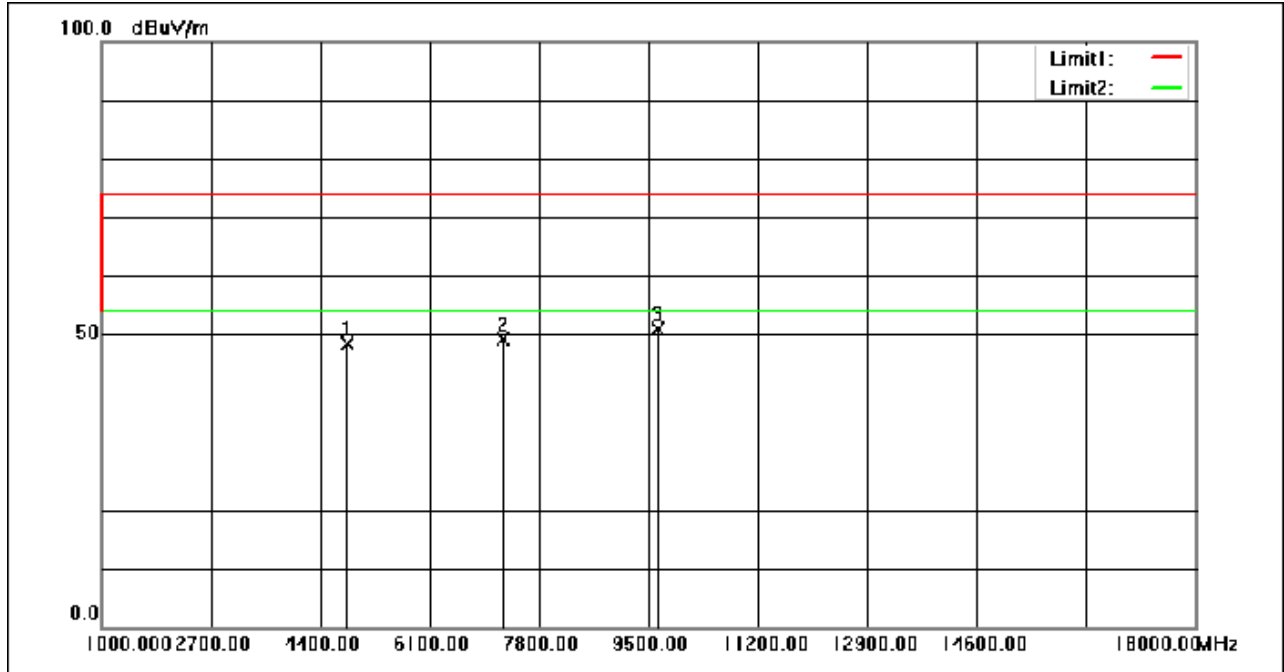
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 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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	57.16	-8.78	48.38	74.00	-25.62	peak
2	7236.000	54.88	-5.86	49.02	74.00	-24.98	peak
3	9648.000	52.08	-1.31	50.77	74.00	-23.23	peak



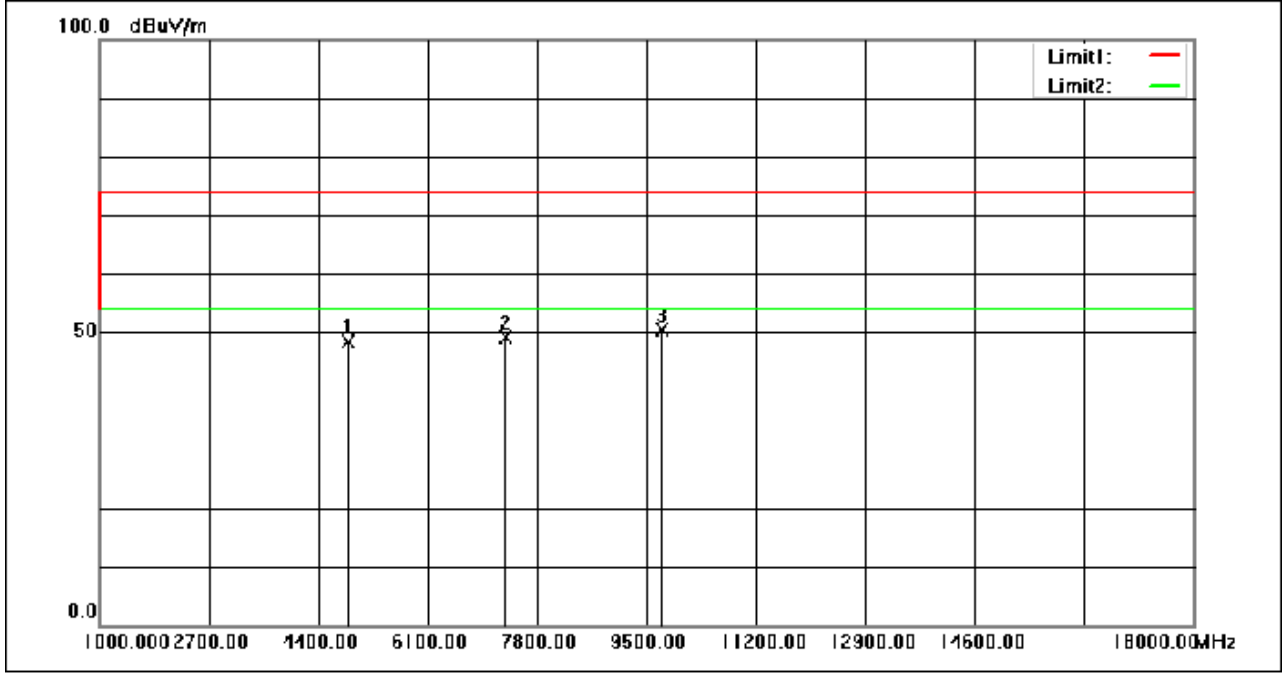
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	56.94	-8.61	48.33	74.00	-25.67	peak
2	7311.000	54.97	-5.78	49.19	74.00	-24.81	peak
3	9748.000	51.73	-1.43	50.30	74.00	-23.70	peak



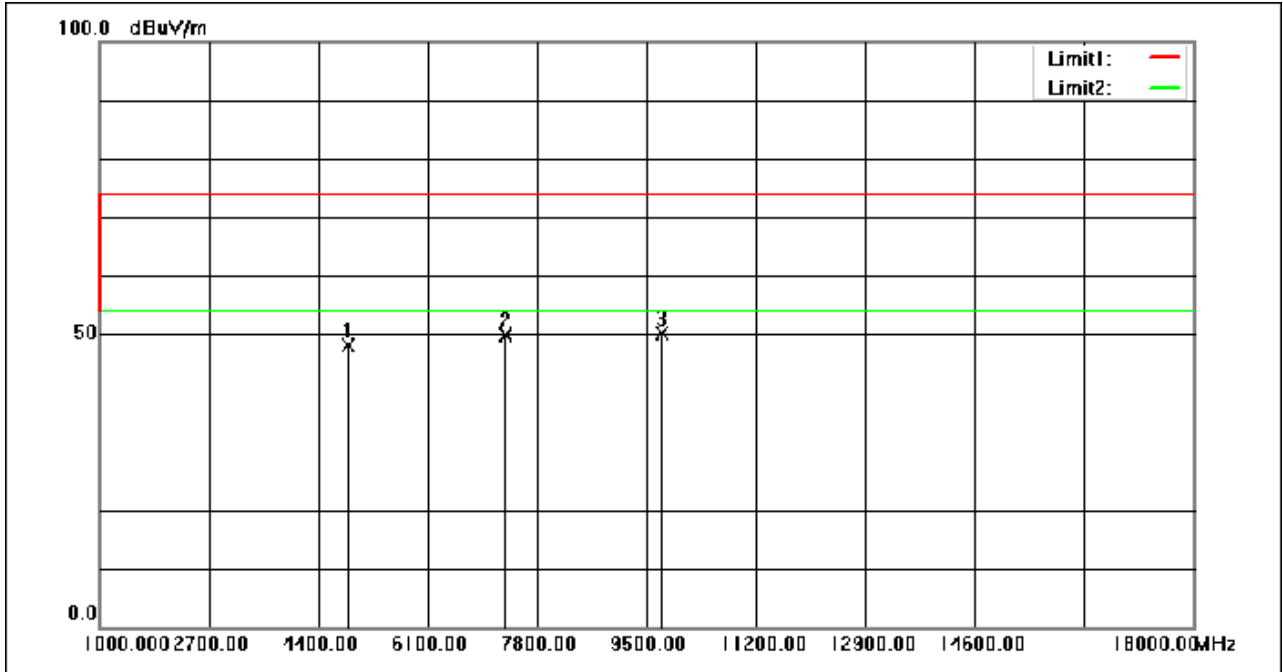
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	56.81	-8.61	48.20	74.00	-25.80	peak
2	7311.000	55.57	-5.78	49.79	74.00	-24.21	peak
3	9748.000	51.58	-1.43	50.15	74.00	-23.85	peak



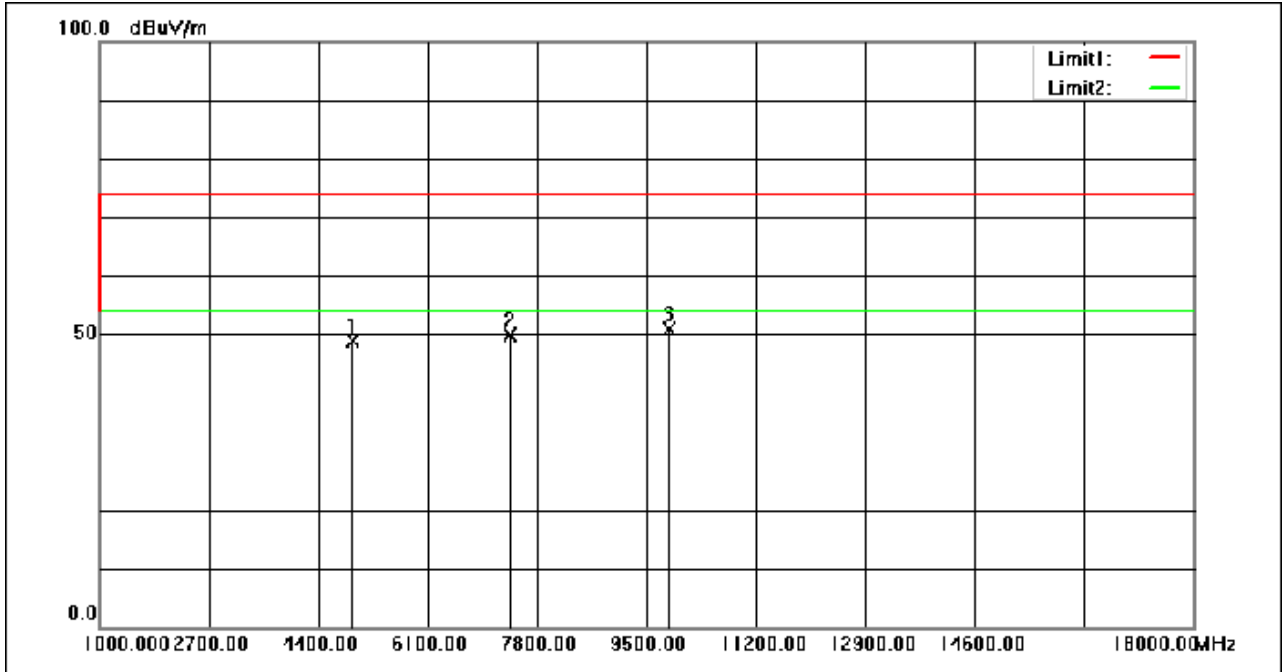
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	57.38	-8.44	48.94	74.00	-25.06	peak
2	7386.000	55.55	-5.69	49.86	74.00	-24.14	peak
3	9848.000	52.20	-1.27	50.93	74.00	-23.07	peak

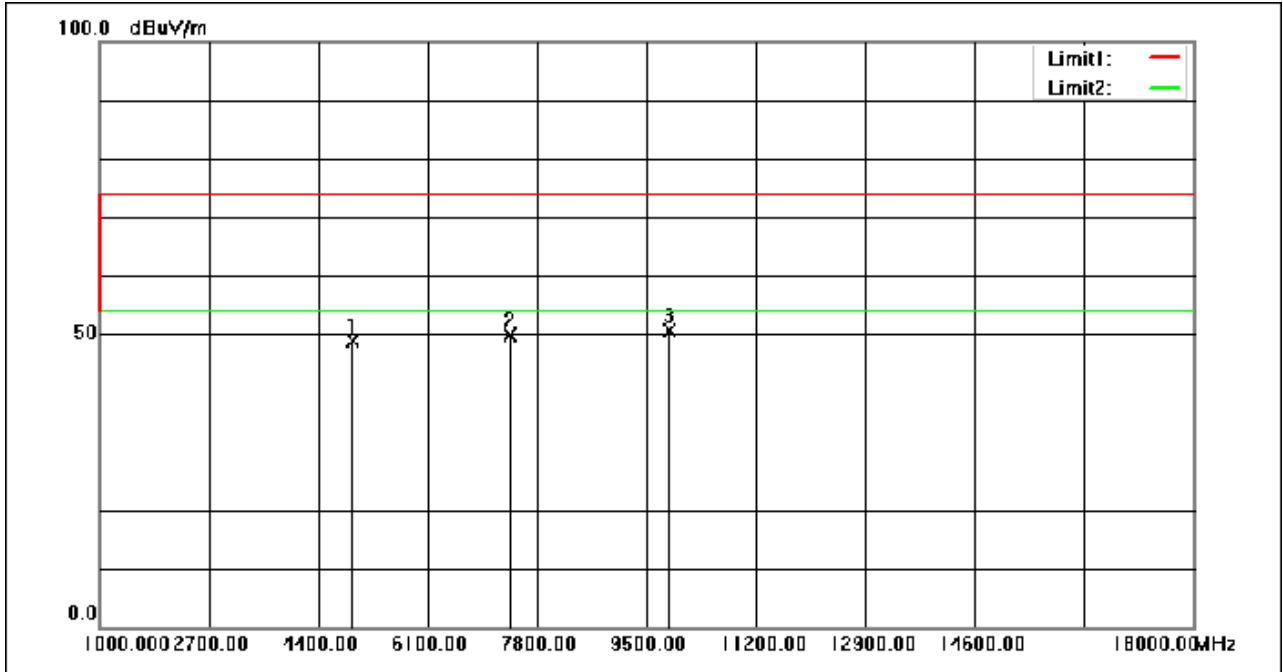


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	57.36	-8.44	48.92	74.00	-25.08	peak
2	7386.000	55.58	-5.69	49.89	74.00	-24.11	peak
3	9848.000	51.85	-1.27	50.58	74.00	-23.42	peak



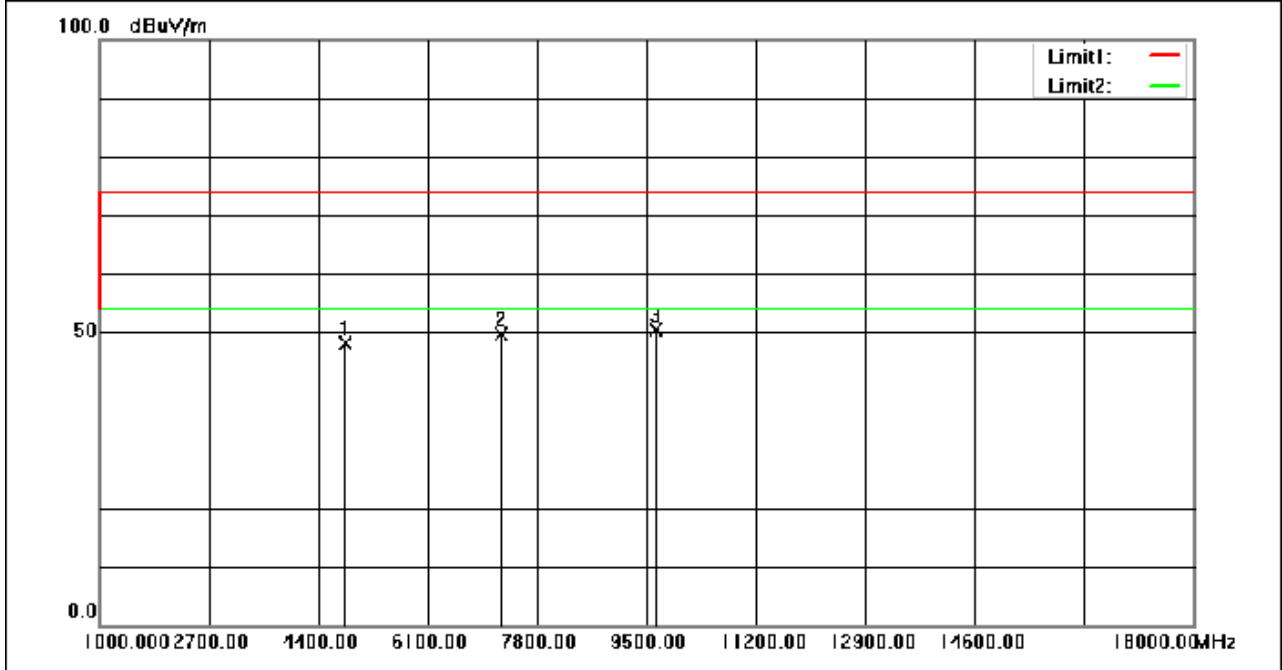
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	56.81	-8.78	48.03	74.00	-25.97	peak
2	7236.000	55.56	-5.86	49.70	74.00	-24.30	peak
3	9648.000	51.63	-1.31	50.32	74.00	-23.68	peak



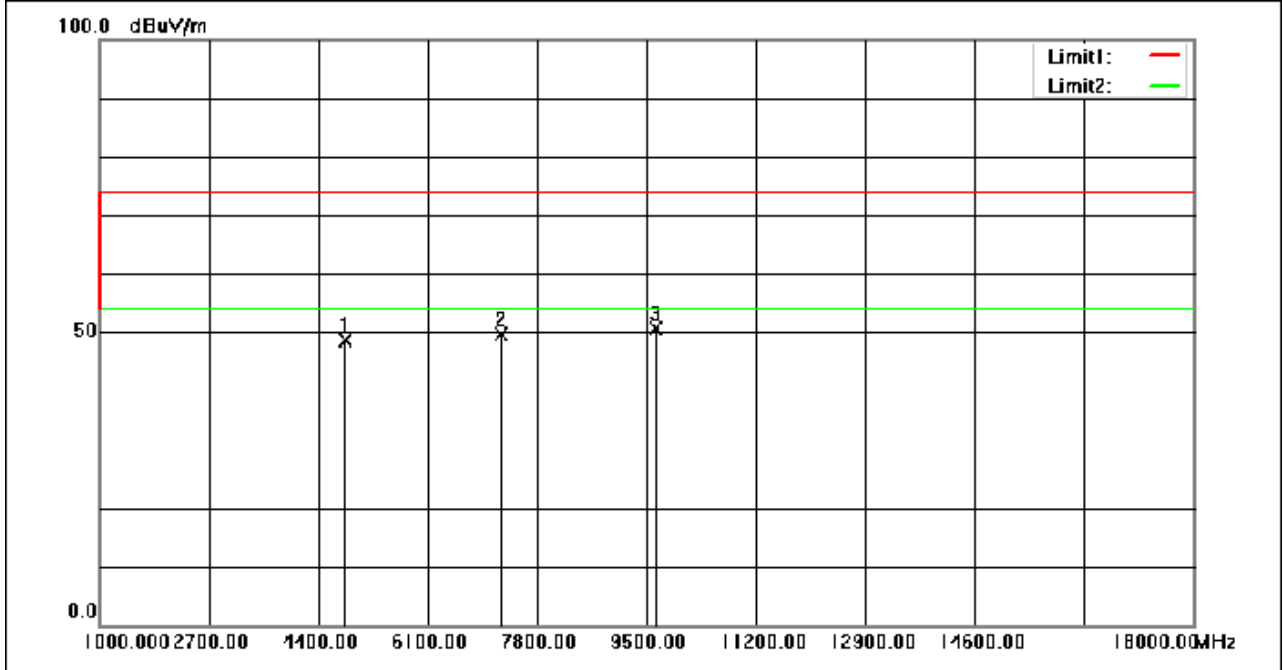
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.38	-8.78	48.60	74.00	-25.40	peak
2	7236.000	55.59	-5.86	49.73	74.00	-24.27	peak
3	9648.000	51.89	-1.31	50.58	74.00	-23.42	peak

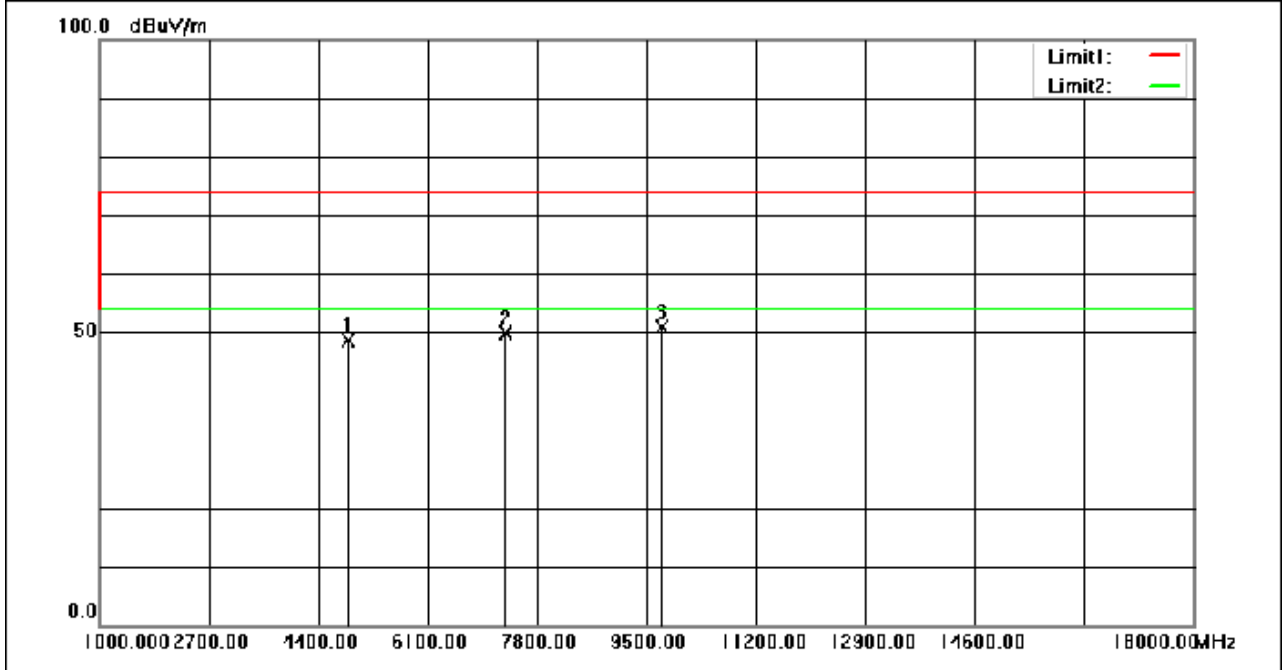


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.17	-8.61	48.56	74.00	-25.44	peak
2	7311.000	55.66	-5.78	49.88	74.00	-24.12	peak
3	9748.000	52.40	-1.43	50.97	74.00	-23.03	peak



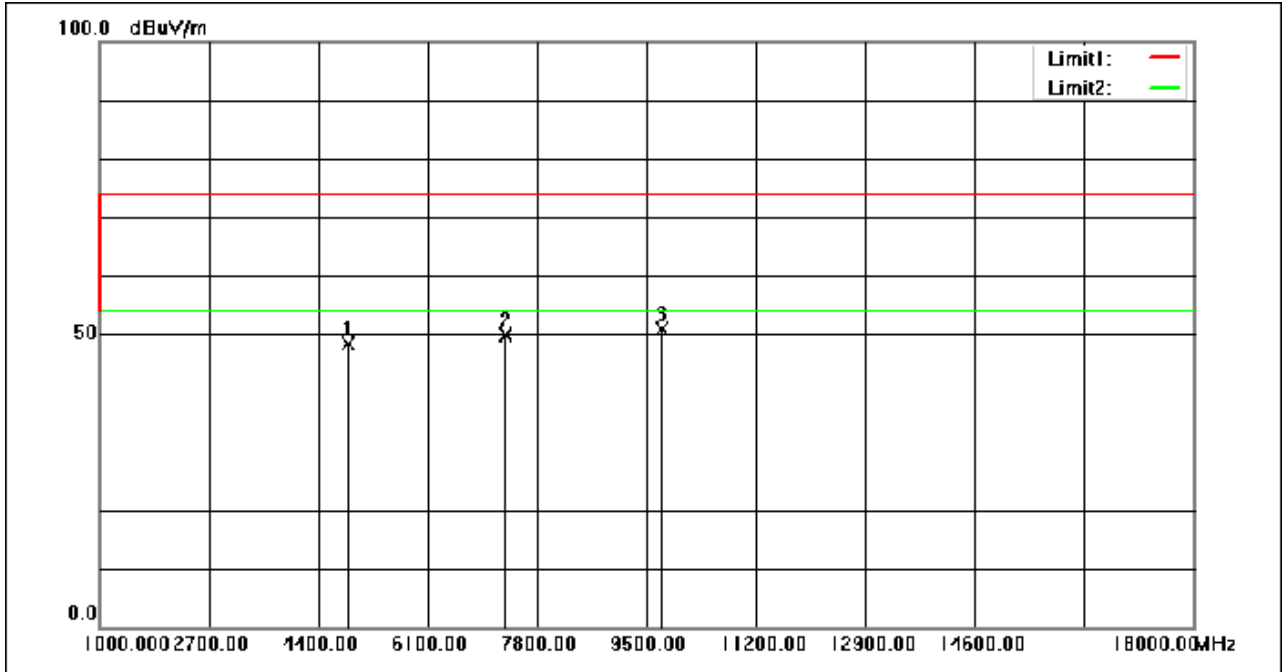
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.08	-8.61	48.47	74.00	-25.53	peak
2	7311.000	55.76	-5.78	49.98	74.00	-24.02	peak
3	9748.000	52.39	-1.43	50.96	74.00	-23.04	peak



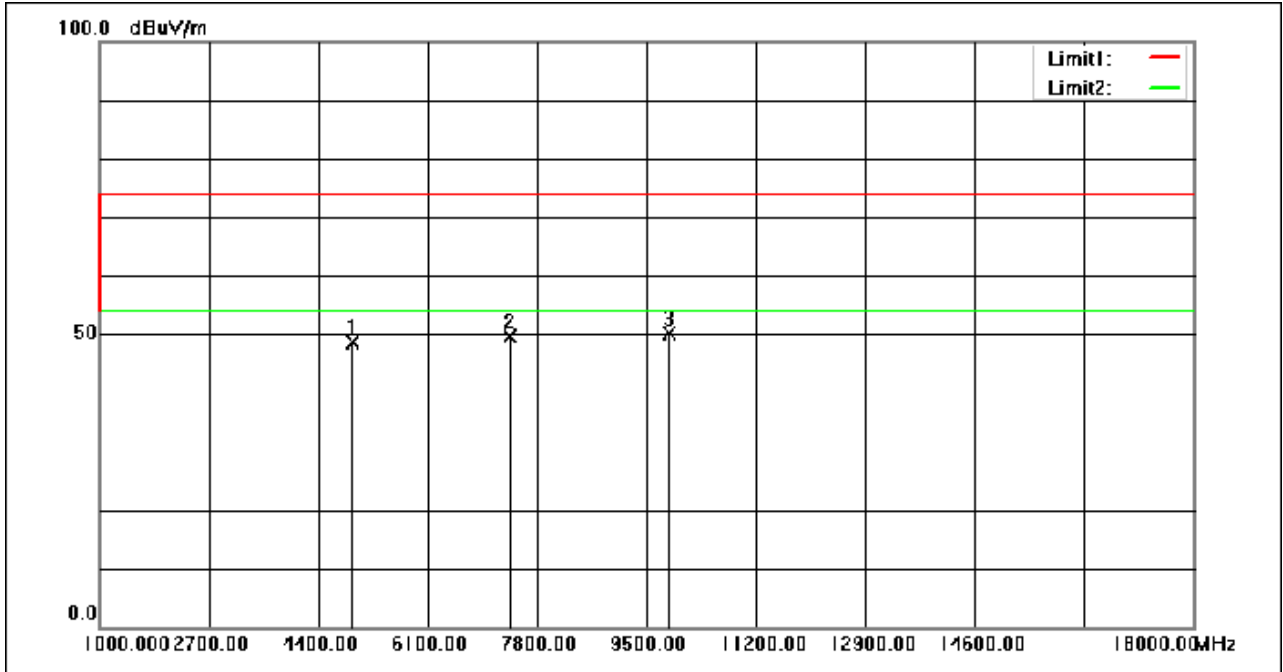
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	57.03	-8.44	48.59	74.00	-25.41	peak
2	7386.000	55.20	-5.69	49.51	74.00	-24.49	peak
3	9848.000	51.49	-1.27	50.22	74.00	-23.78	peak



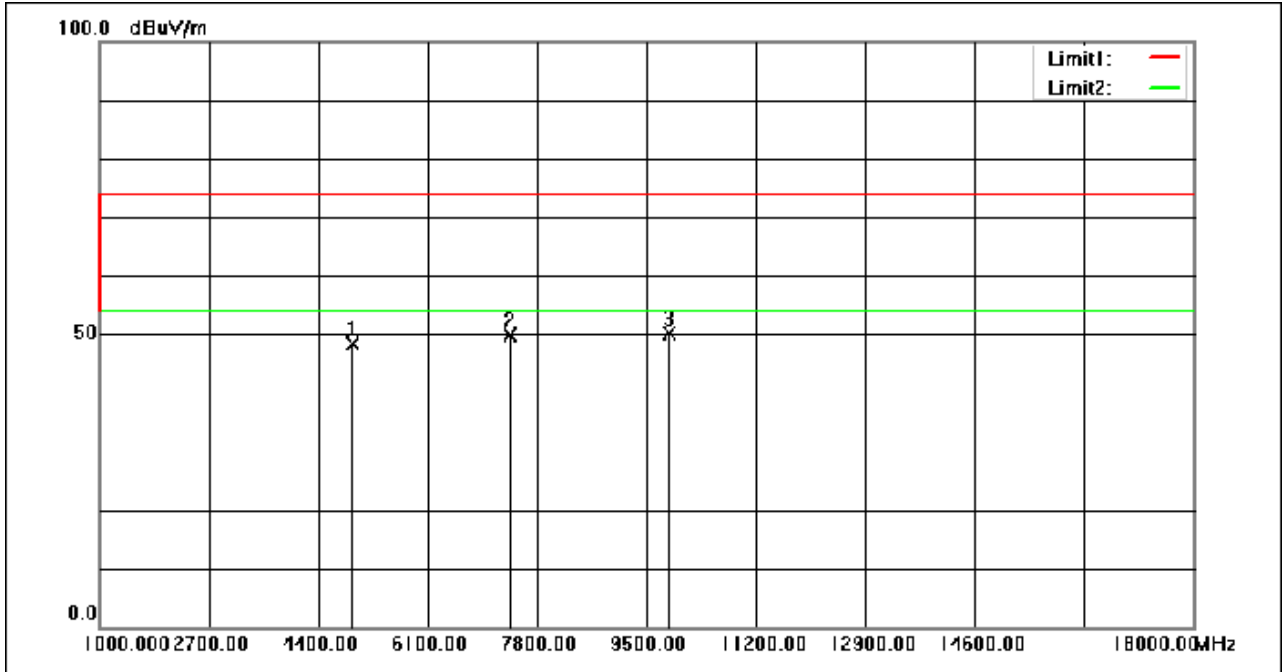
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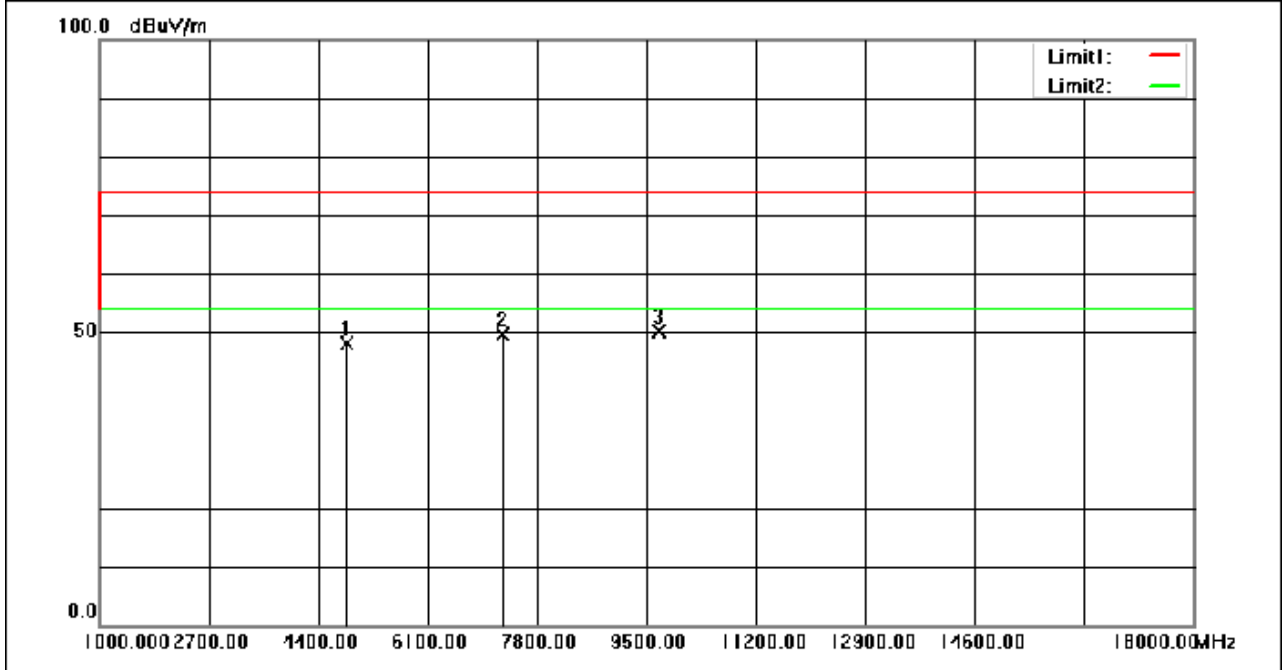


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	56.72	-8.44	48.28	74.00	-25.72	peak
2	7386.000	55.62	-5.69	49.93	74.00	-24.07	peak
3	9848.000	51.37	-1.27	50.10	74.00	-23.90	peak



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	56.93	-8.71	48.22	74.00	-25.78	peak
2	7266.000	55.58	-5.83	49.75	74.00	-24.25	peak
3	9688.000	51.47	-1.36	50.11	74.00	-23.89	peak



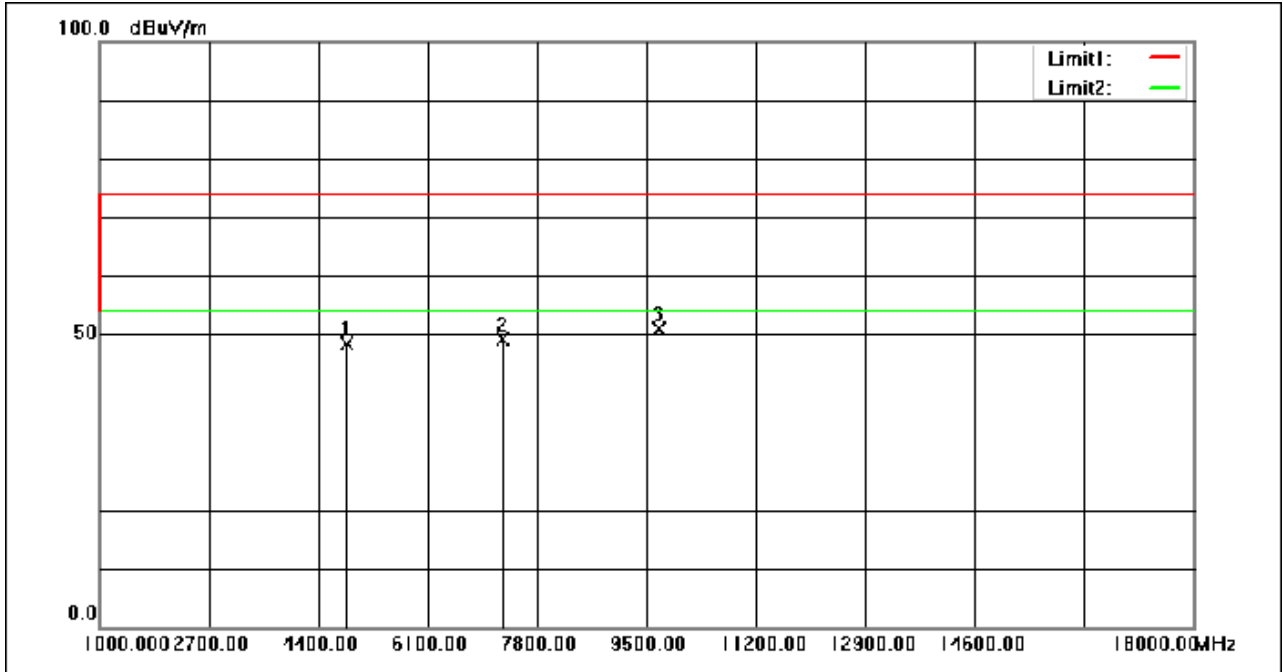
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	57.19	-8.71	48.48	74.00	-25.52	peak
2	7266.000	54.92	-5.83	49.09	74.00	-24.91	peak
3	9688.000	52.15	-1.36	50.79	74.00	-23.21	peak



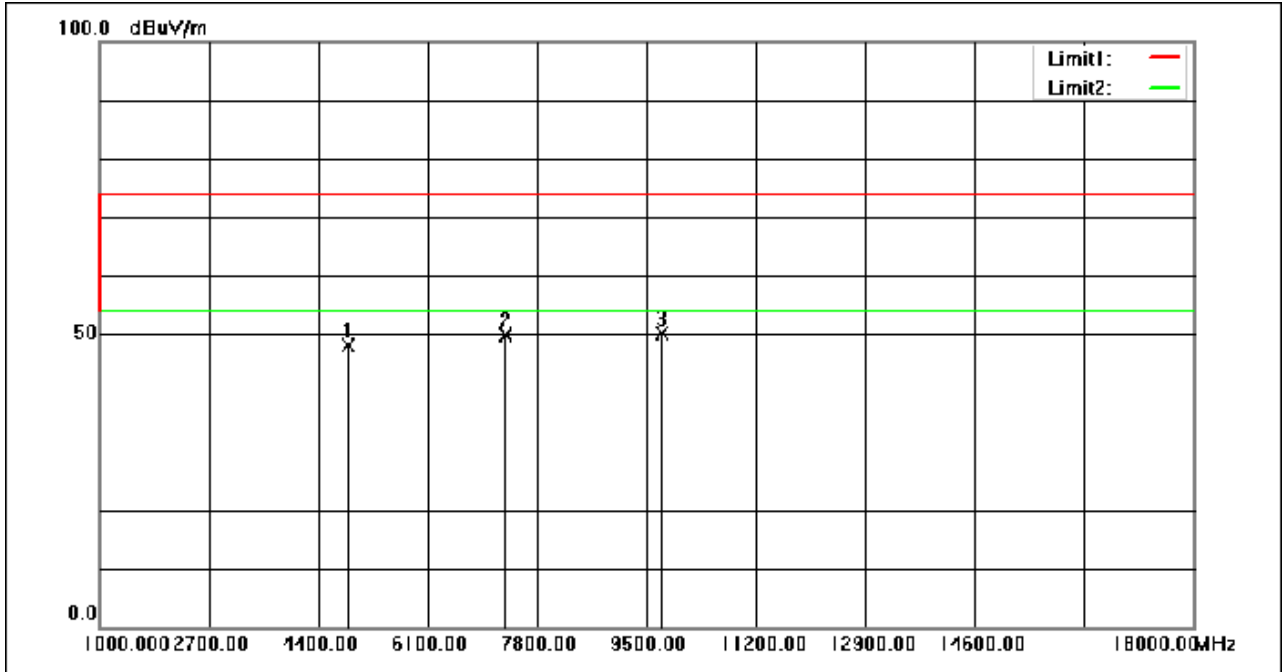
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	56.71	-8.61	48.10	74.00	-25.90	peak
2	7311.000	55.58	-5.78	49.80	74.00	-24.20	peak
3	9748.000	51.60	-1.43	50.17	74.00	-23.83	peak



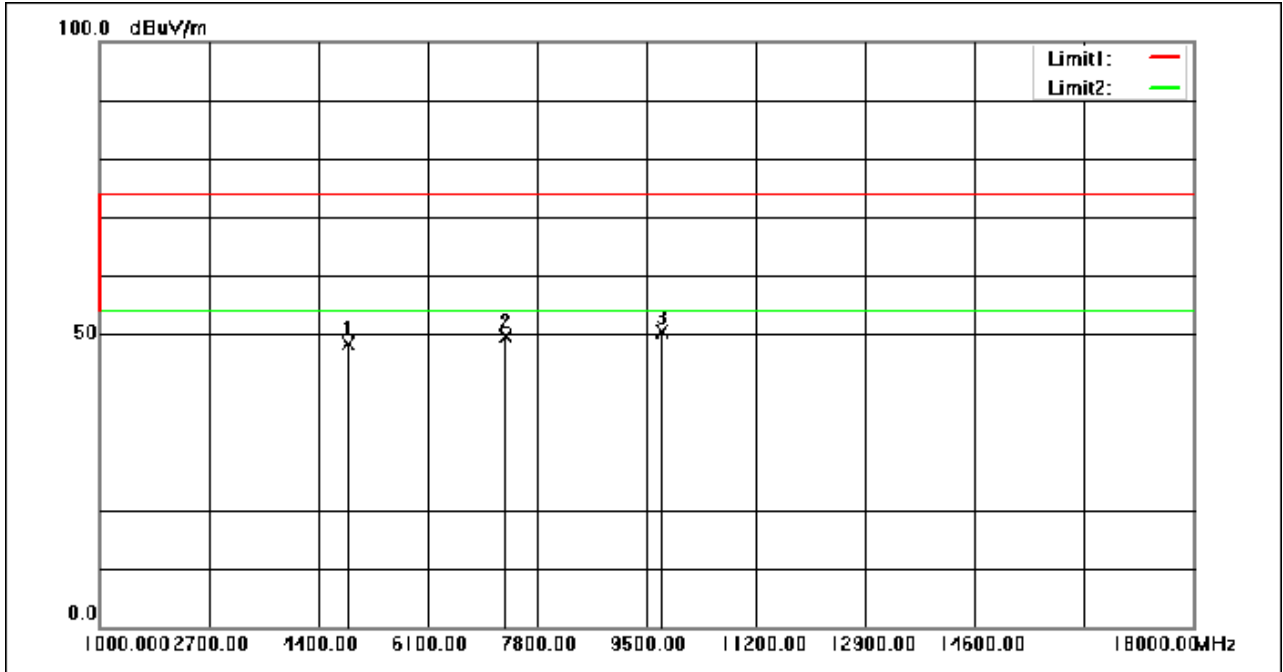
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.11	-8.61	48.50	74.00	-25.50	peak
2	7311.000	55.49	-5.78	49.71	74.00	-24.29	peak
3	9748.000	51.92	-1.43	50.49	74.00	-23.51	peak

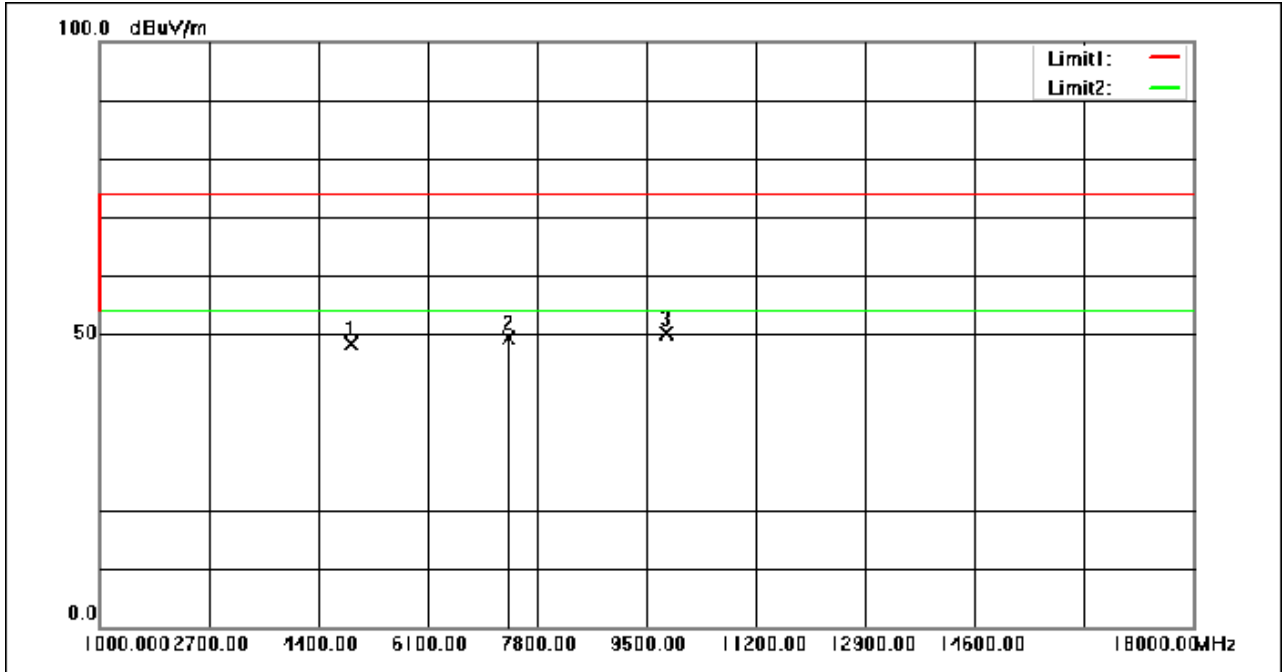


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	56.85	-8.51	48.34	74.00	-25.66	peak
2	7356.000	55.03	-5.73	49.30	74.00	-24.70	peak
3	9808.000	51.52	-1.47	50.05	74.00	-23.95	peak

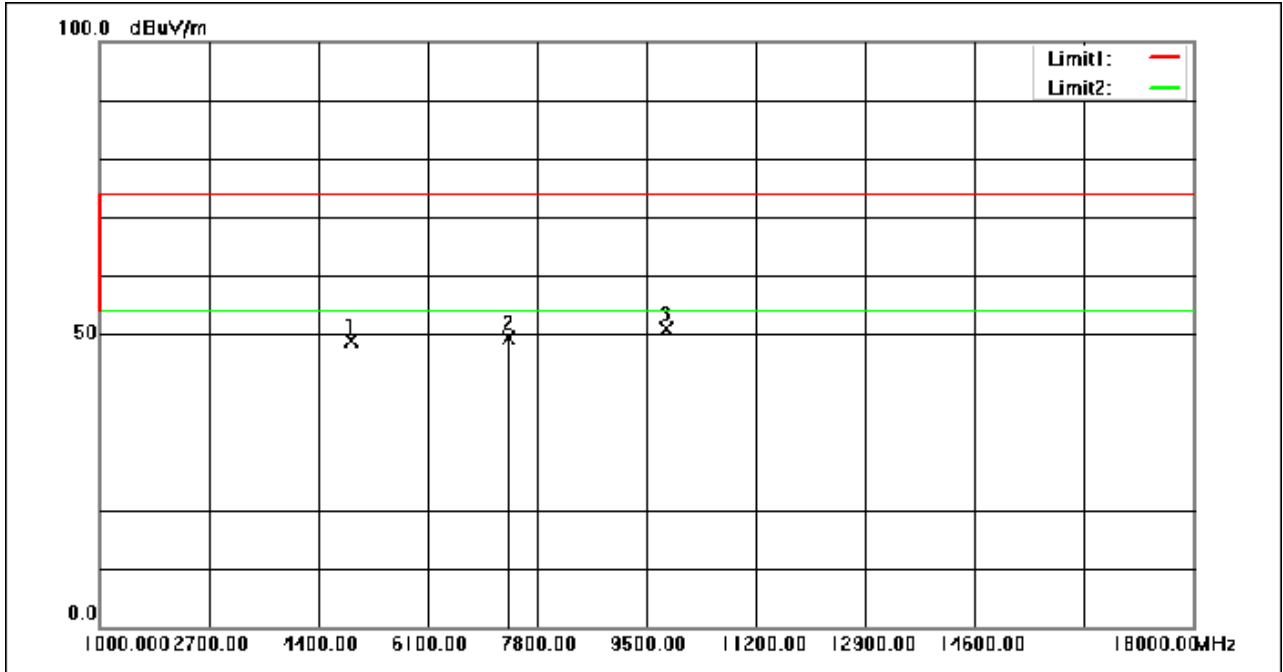


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	57.44	-8.51	48.93	74.00	-25.07	peak
2	7356.000	55.04	-5.73	49.31	74.00	-24.69	peak
3	9808.000	52.30	-1.47	50.83	74.00	-23.17	peak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2207001158AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2207001158AT



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10 Appendix

Appendix for KSCR2207001158AT-FCC-2.4G

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	32.953	32.973	99.94	0.00	0.01
		2437	32.950	32.970	99.94	0.00	0.00
		2462	32.950	32.970	99.94	0.00	0.00
802.11g	SISO	2412	5.484	5.510	99.53	0.02	0.03
		2437	5.486	5.512	99.53	0.02	0.04
		2462	5.484	5.510	99.53	0.02	0.00
802.11n (HT20)	SISO	2412	5.081	5.107	99.49	0.02	0.04
		2437	5.080	5.105	99.51	0.02	0.04
		2462	5.081	5.107	99.49	0.02	0.04
802.11n (HT40)	SISO	2422	2.470	2.495	99.00	0.04	0.03
		2437	2.469	2.494	99.00	0.04	0.04
		2452	2.469	2.494	99.00	0.04	0.03



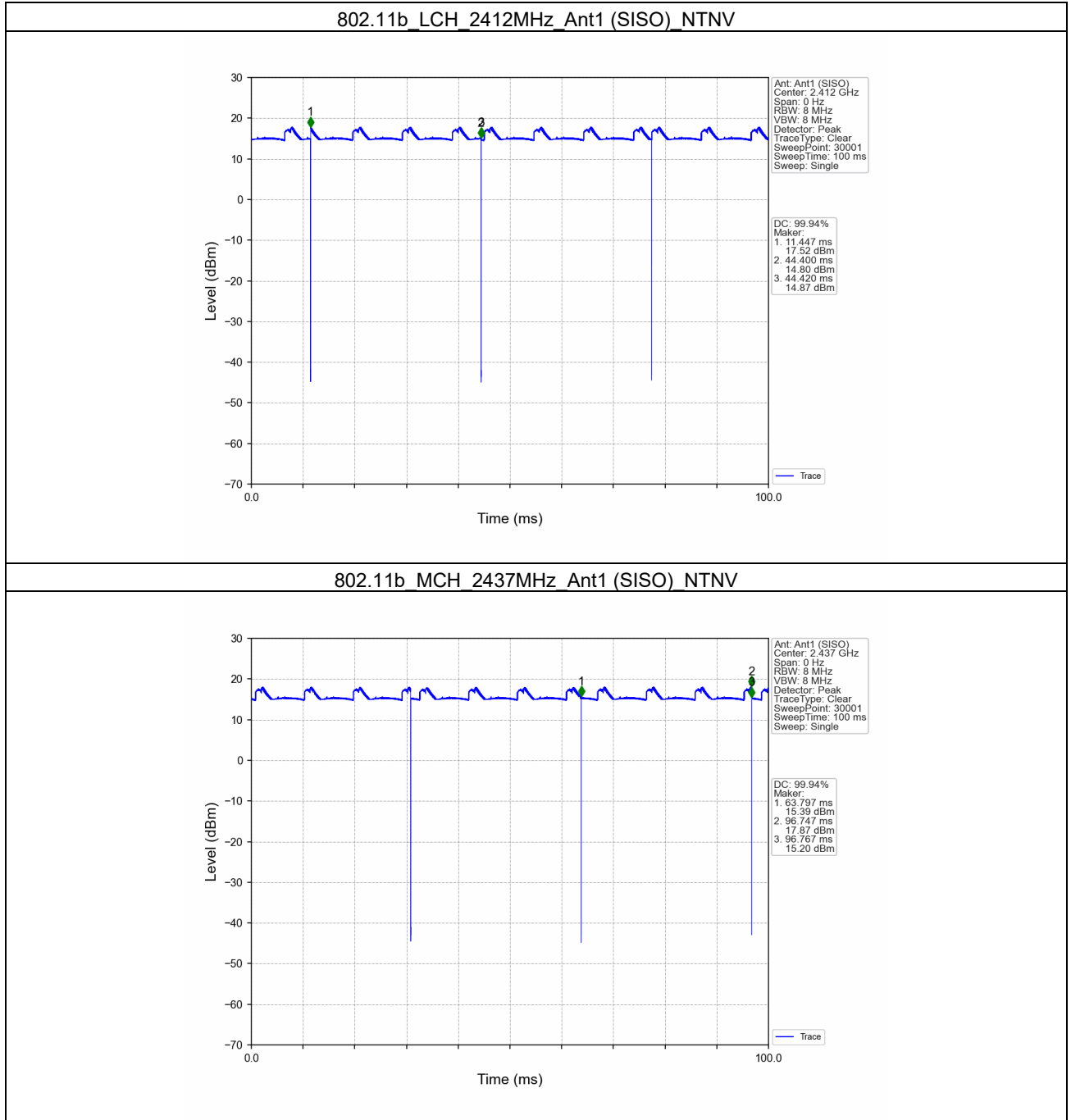
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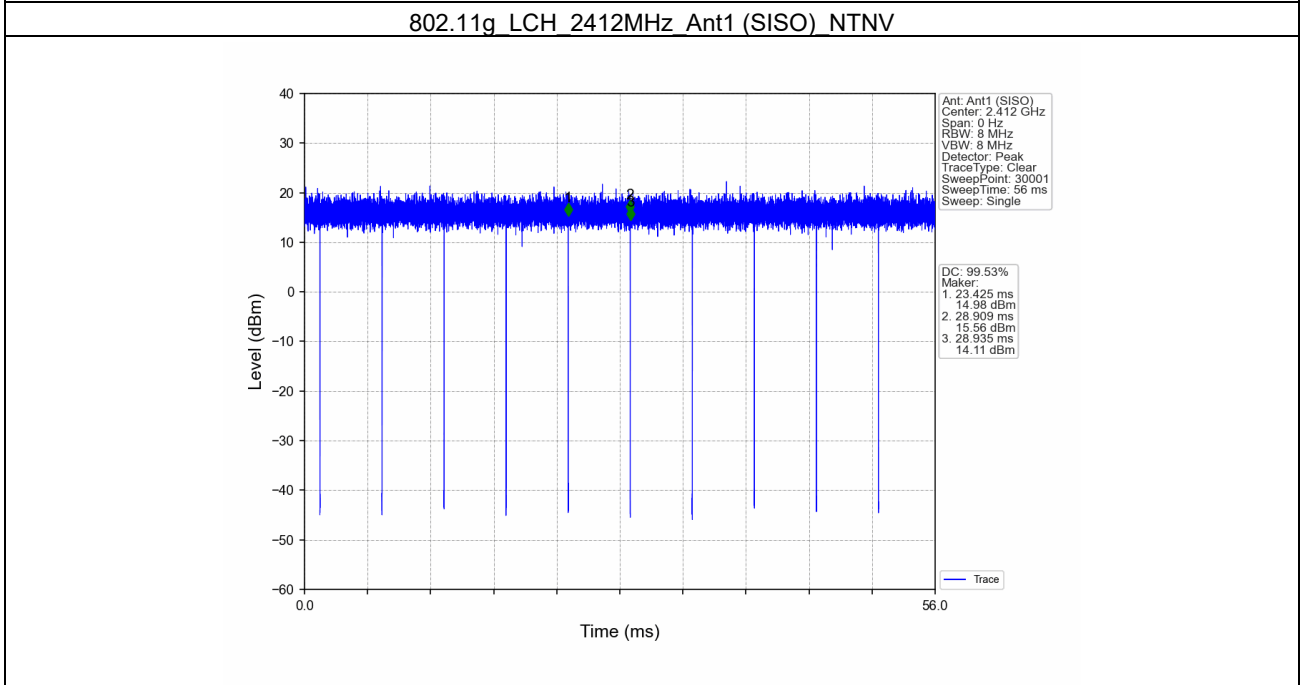
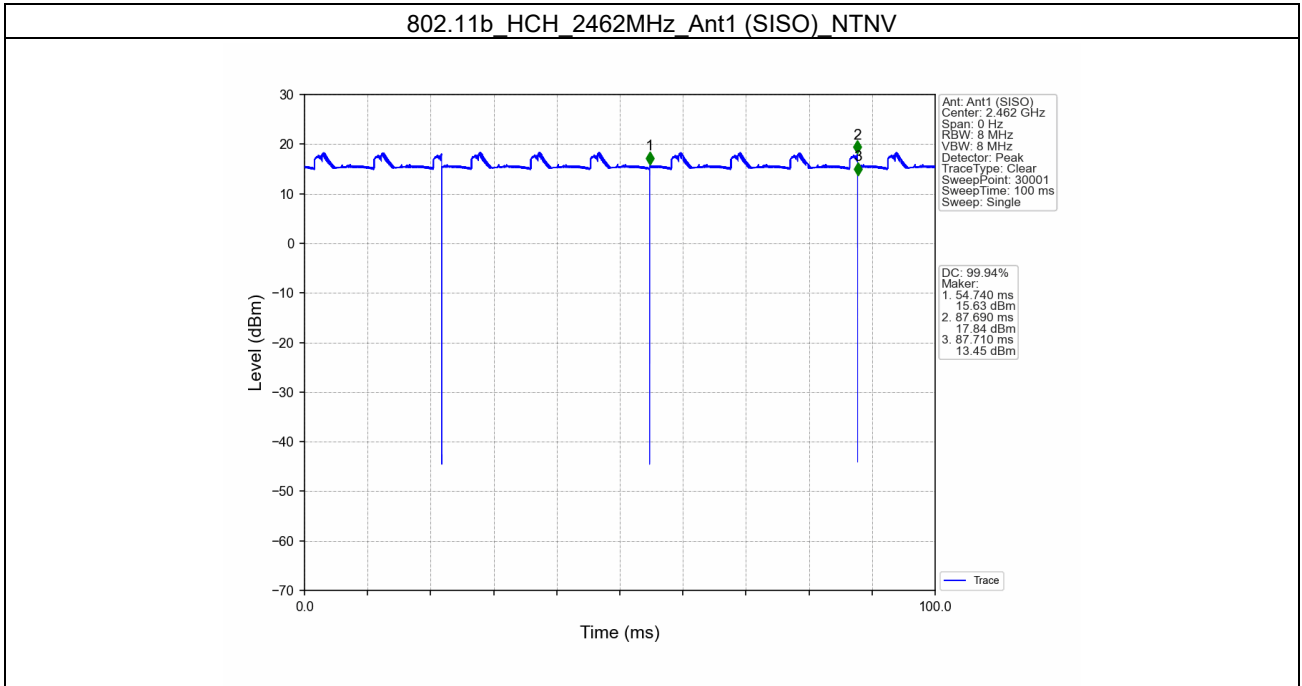
1.1.2 Test Graph



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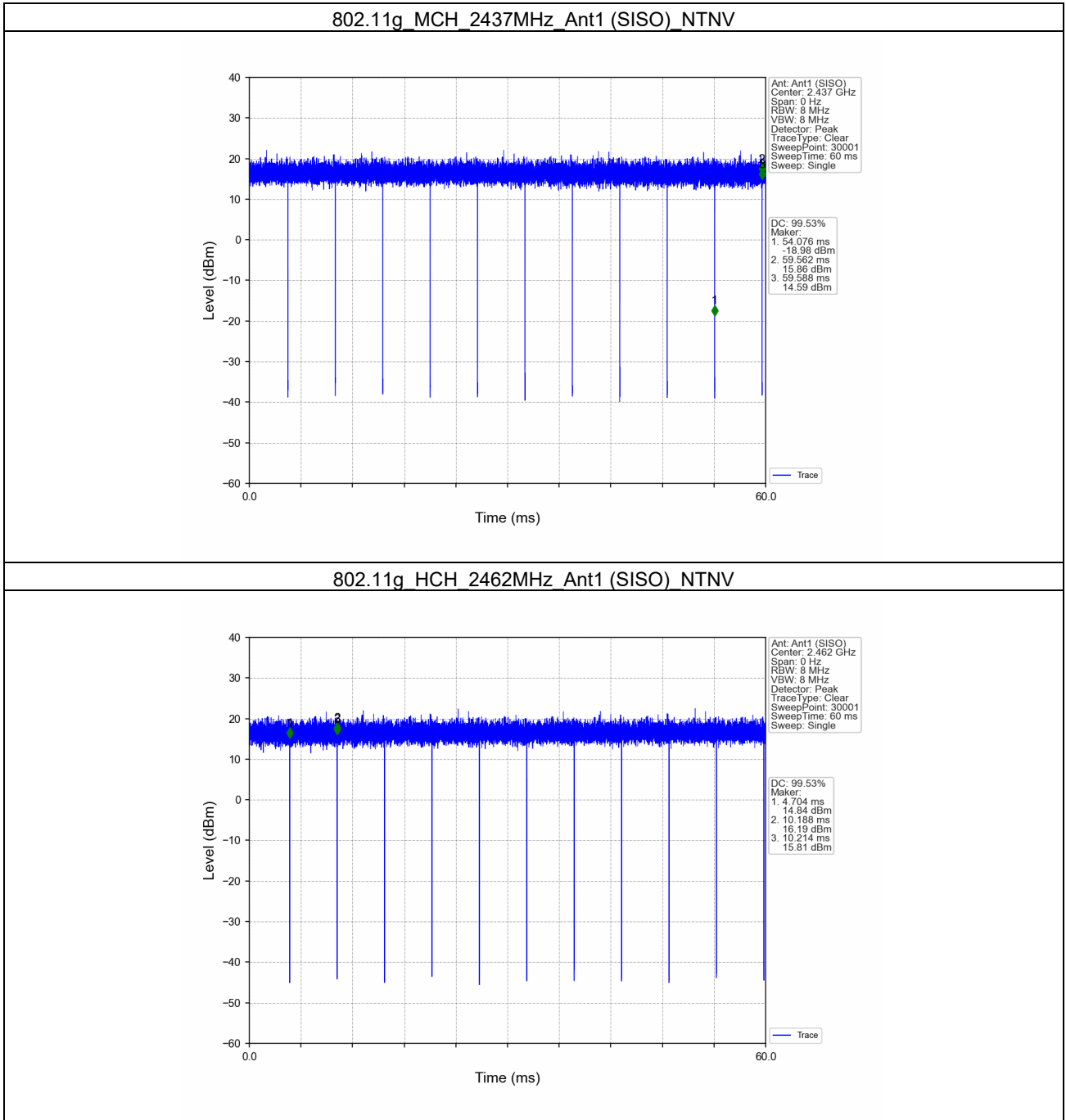
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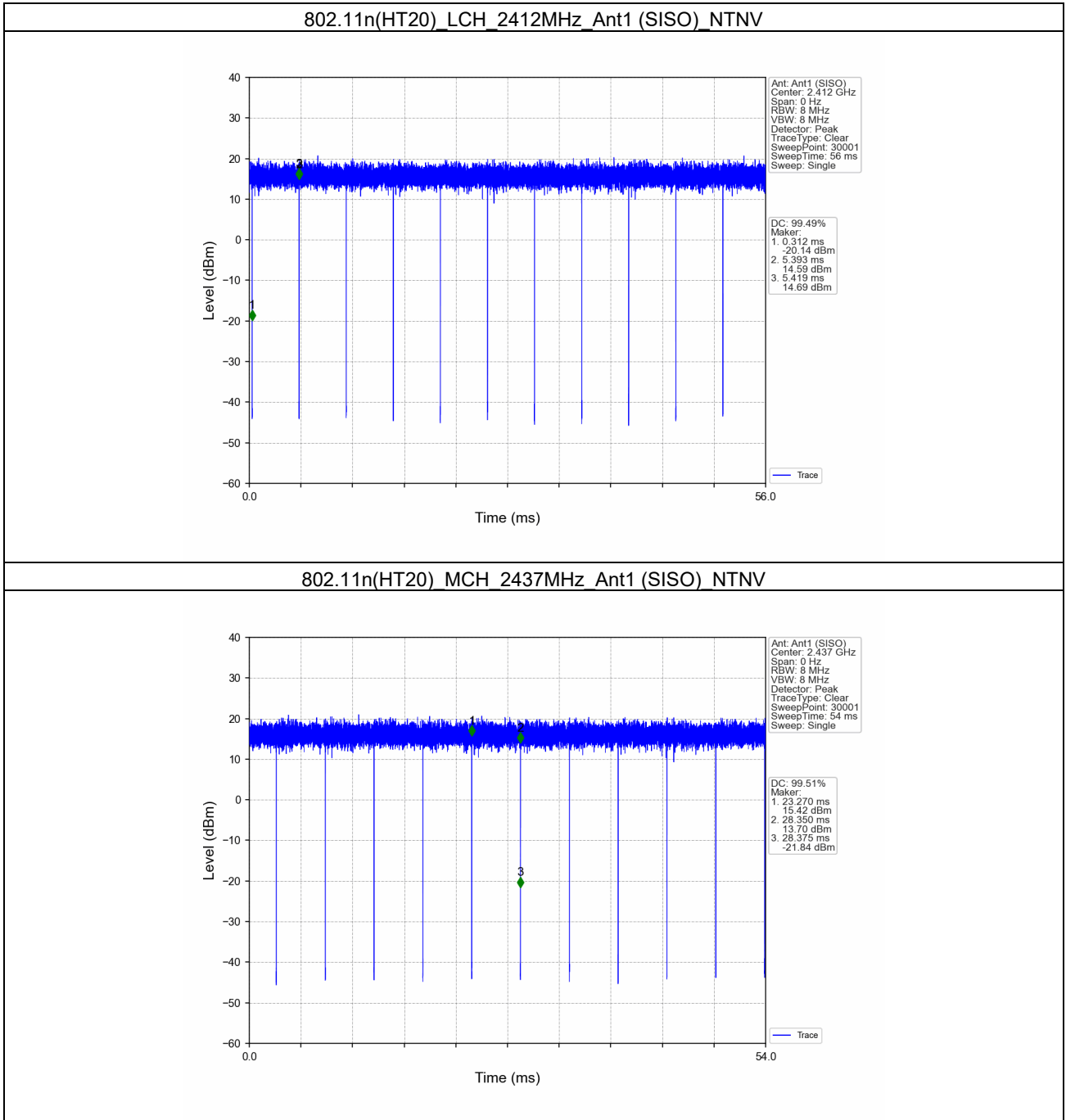


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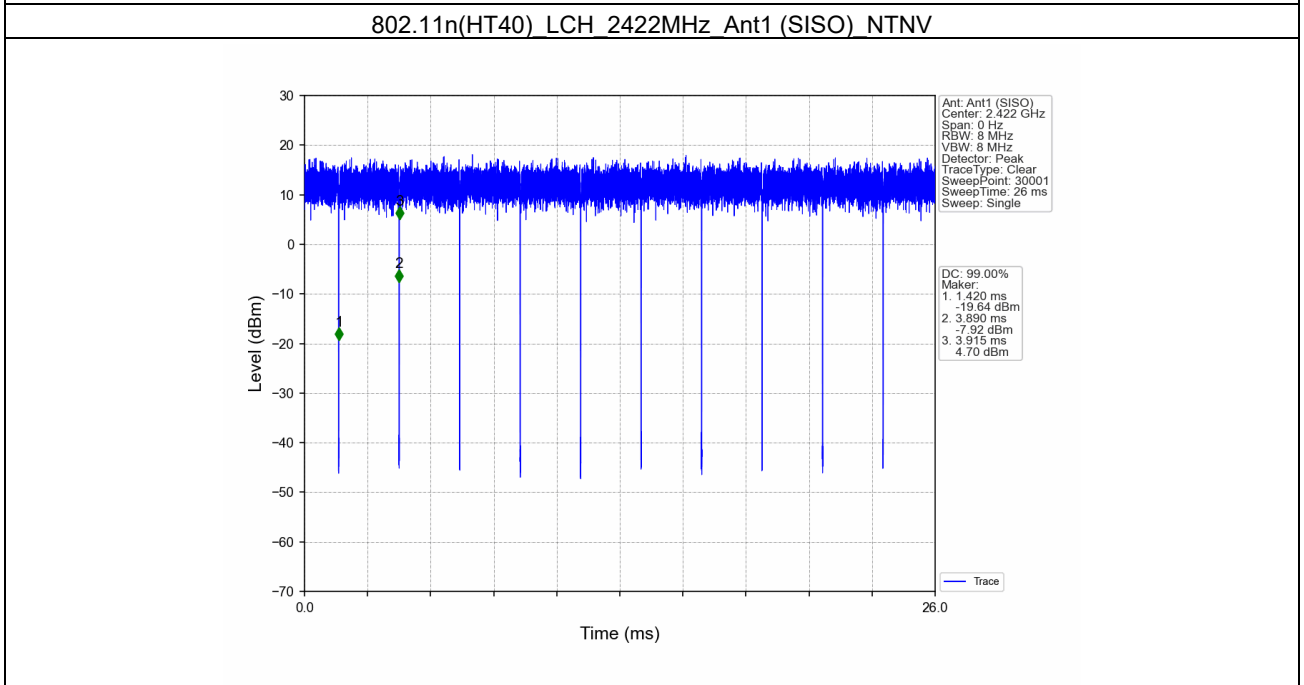
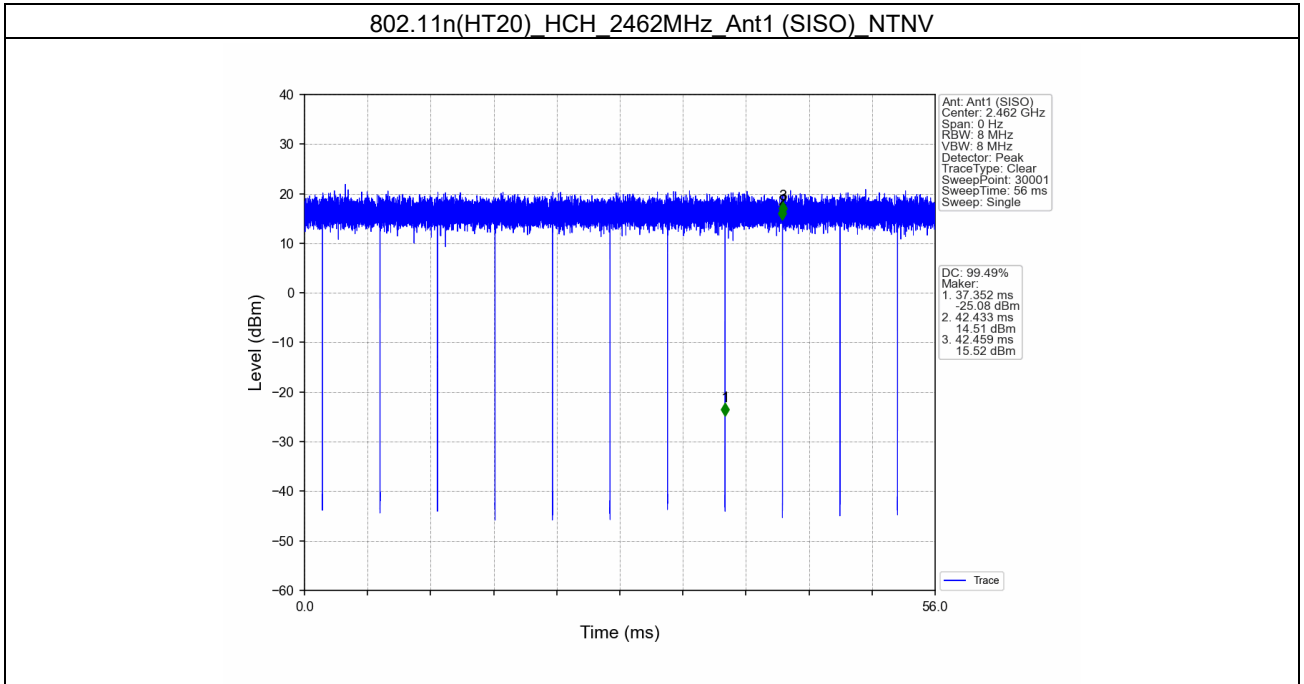


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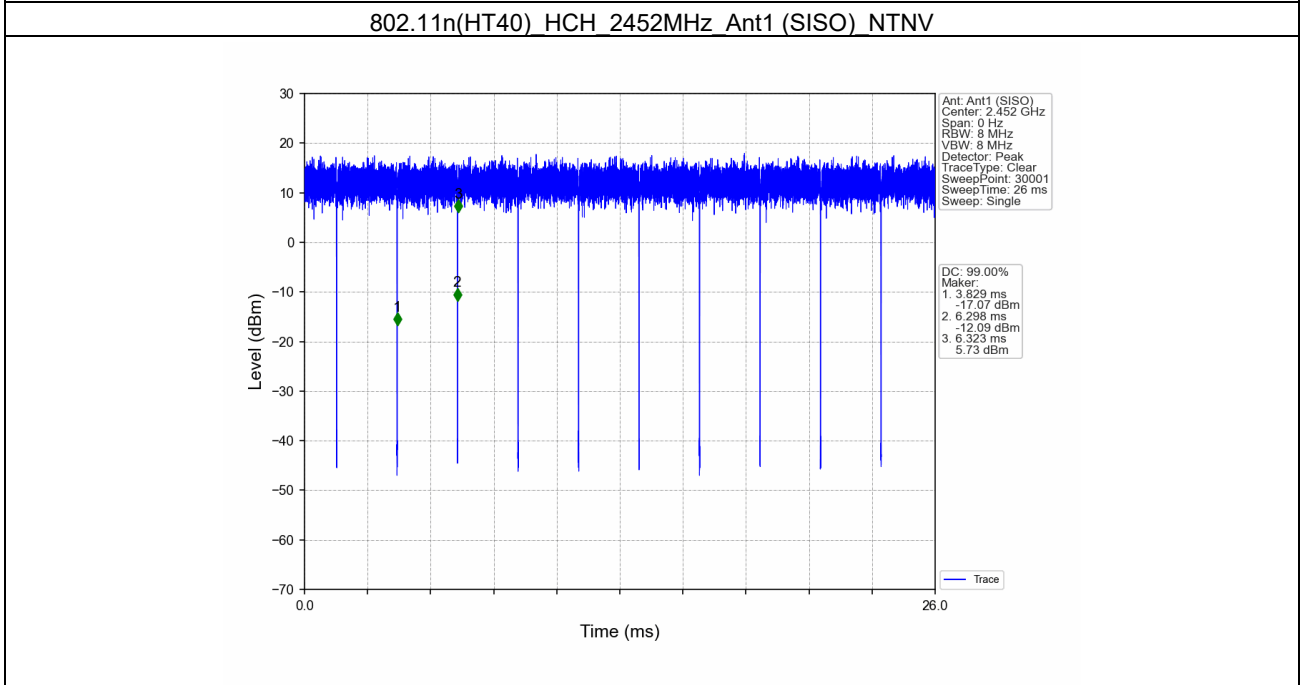
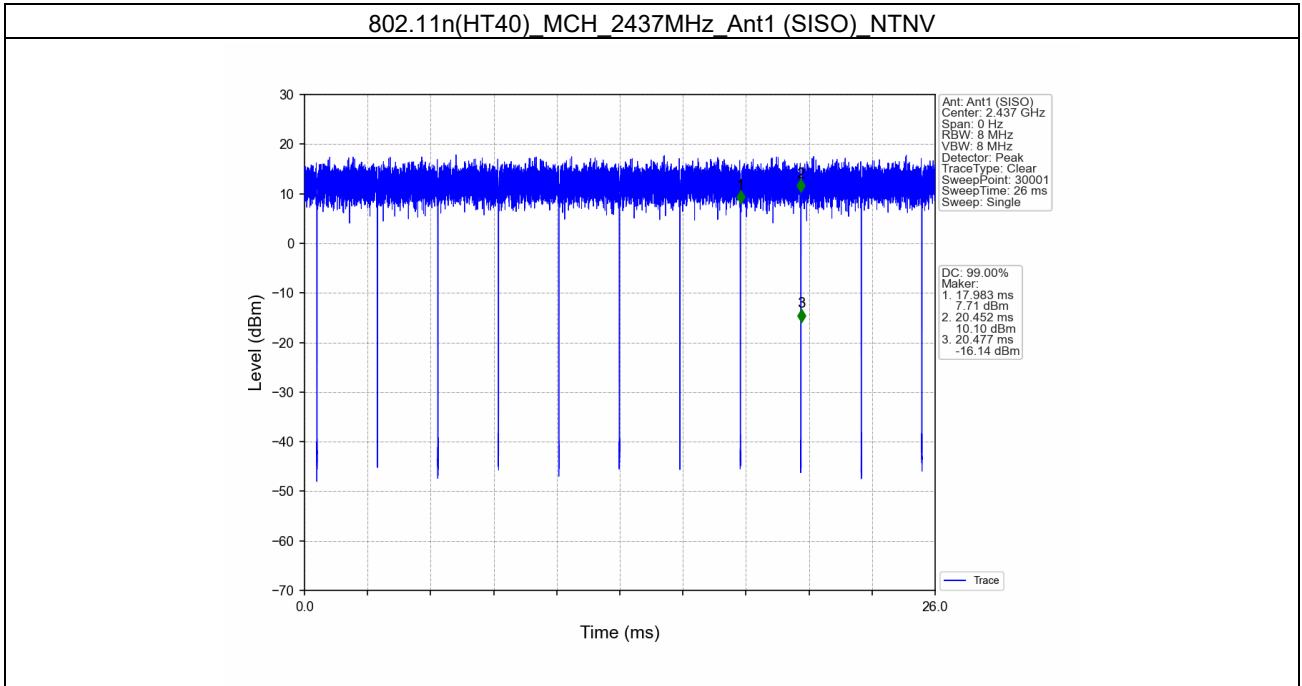
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2. Bandwidth

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	13.117	Pass
		2437	1	13.127	Pass
		2462	1	13.131	Pass
802.11g	SISO	2412	1	17.894	Pass
		2437	1	17.914	Pass
		2462	1	17.924	Pass
802.11n (HT20)	SISO	2412	1	18.610	Pass
		2437	1	18.645	Pass
		2462	1	18.634	Pass
802.11n (HT40)	SISO	2422	1	34.357	Pass
		2437	1	34.408	Pass
		2452	1	34.393	Pass

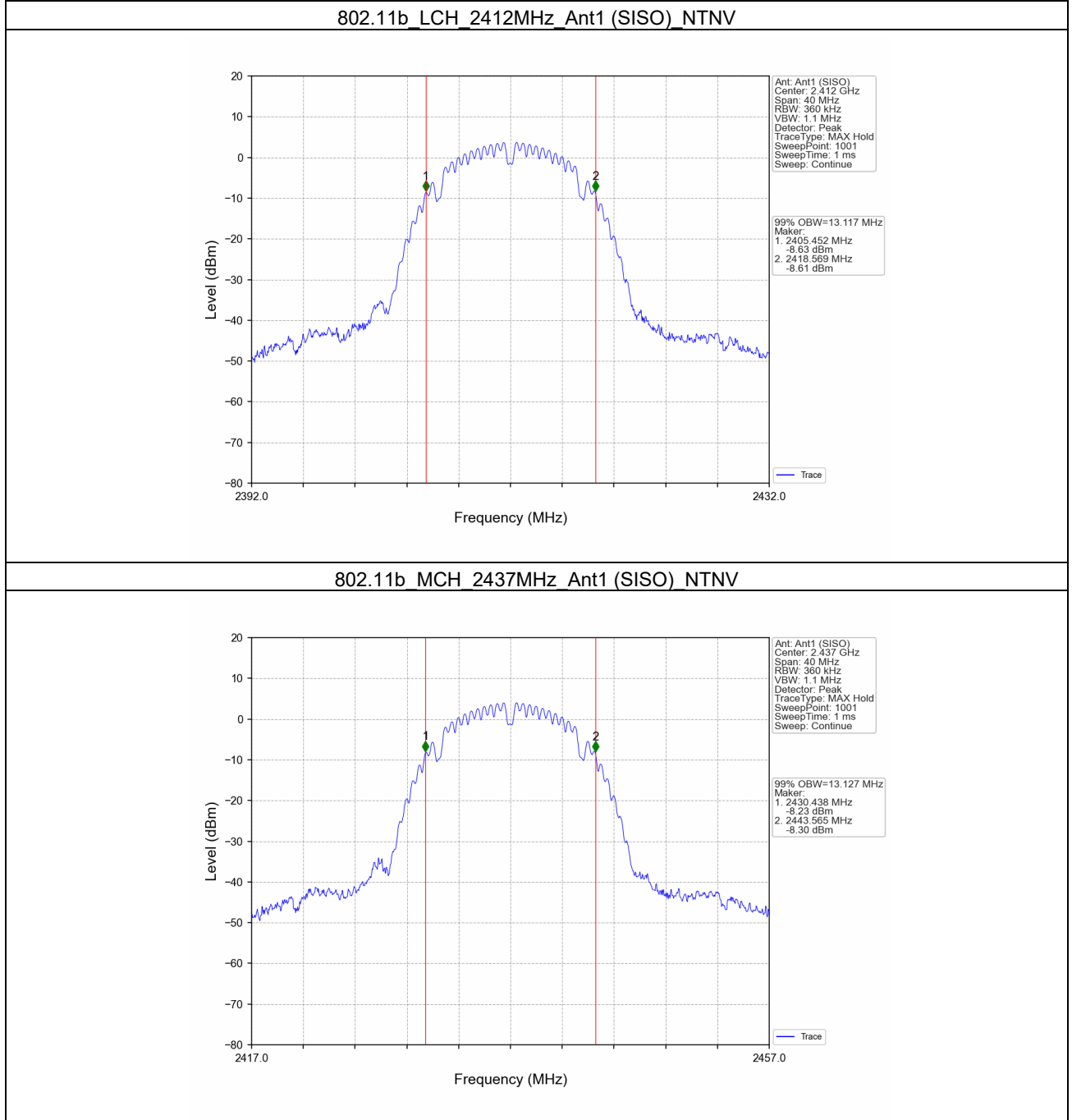


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2.1.2 Test Graph

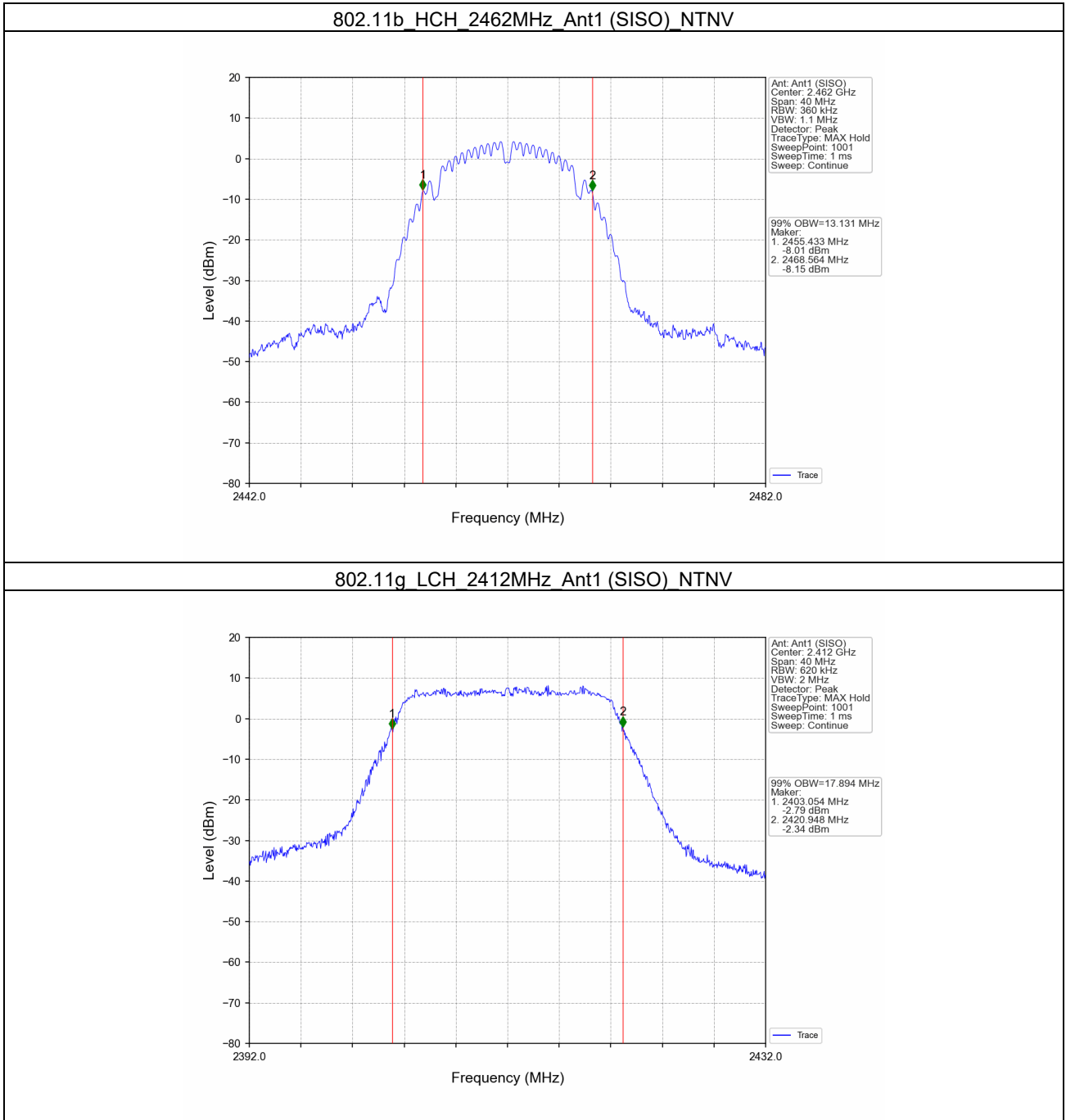


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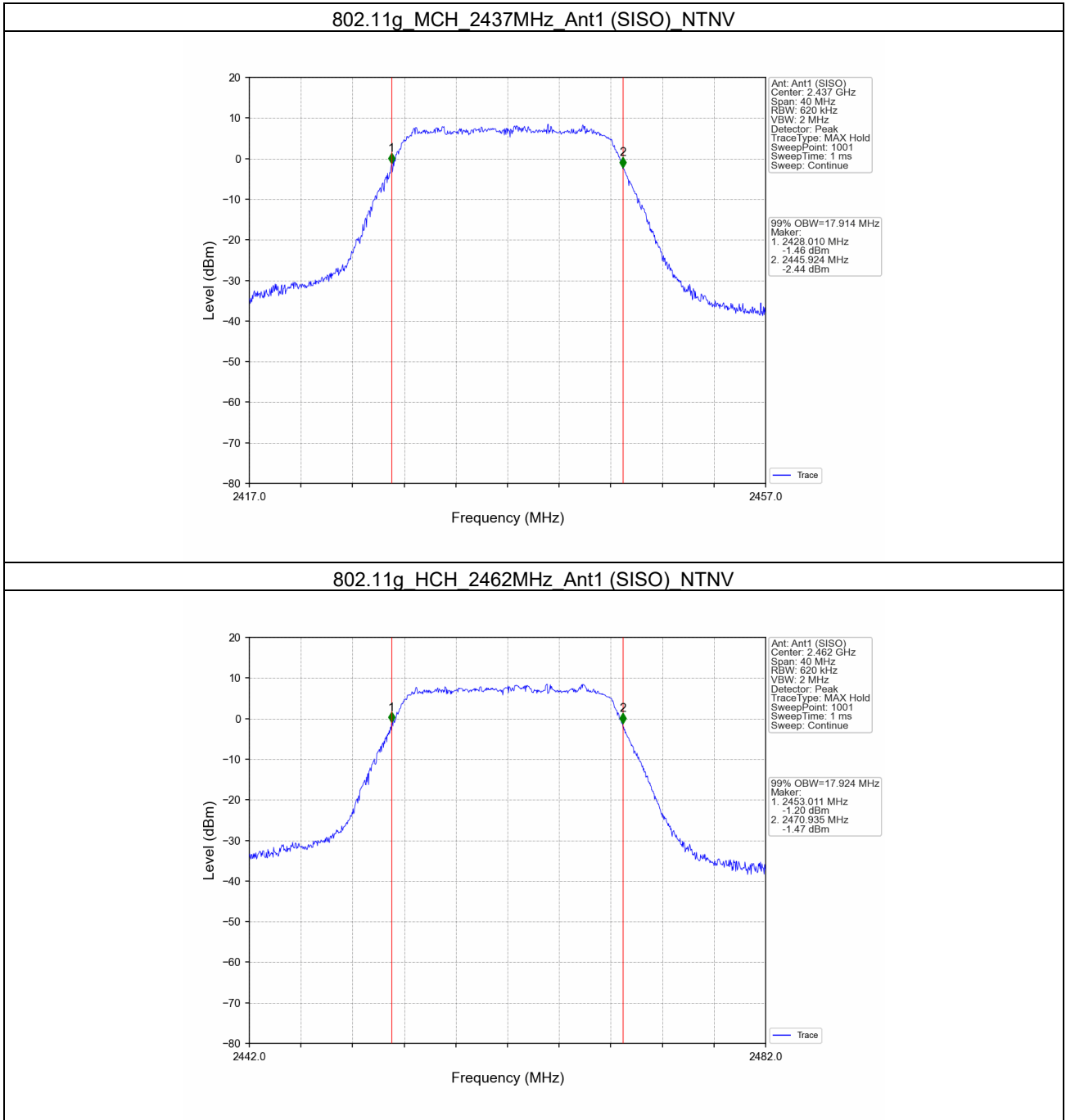
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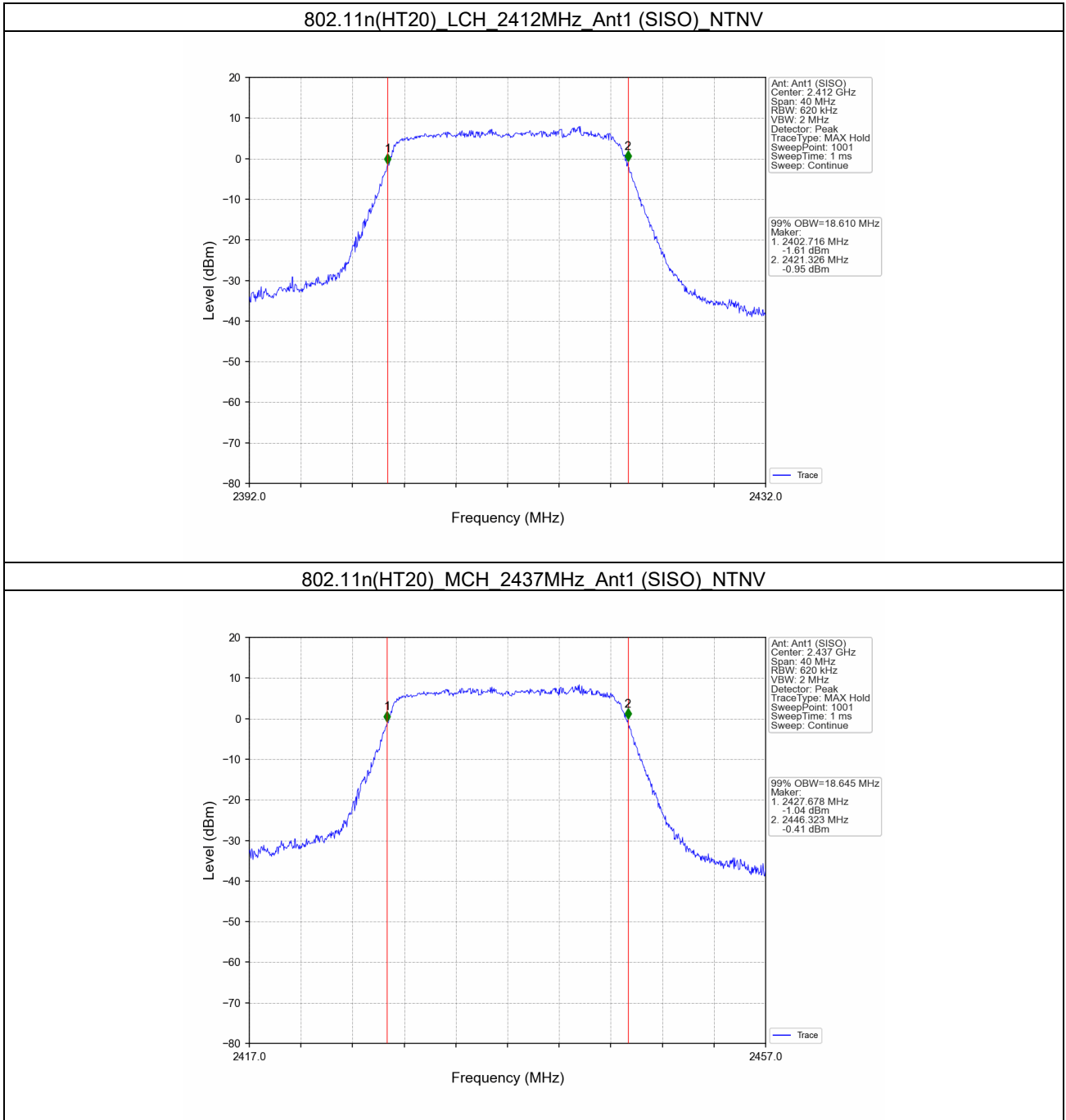
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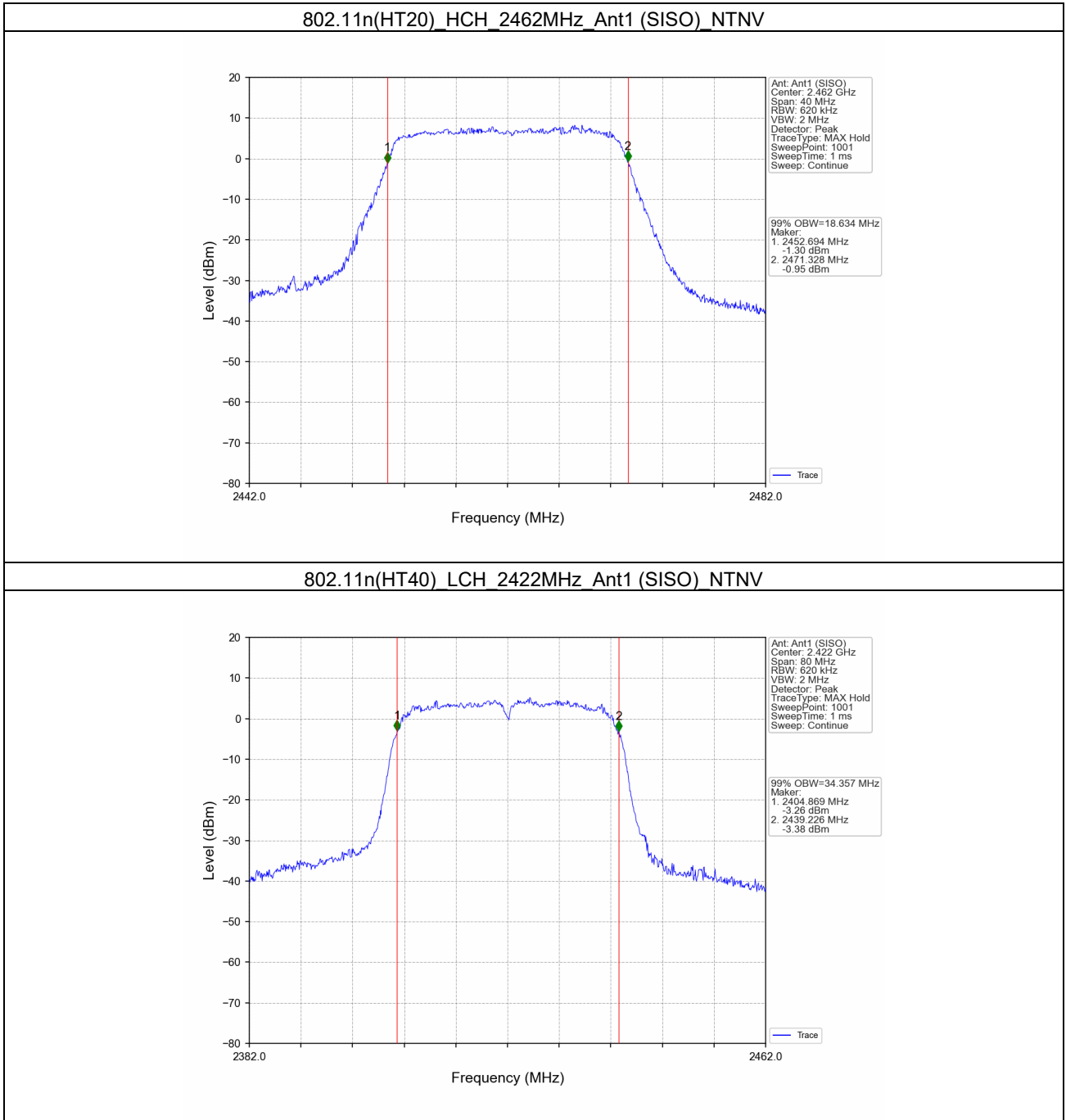
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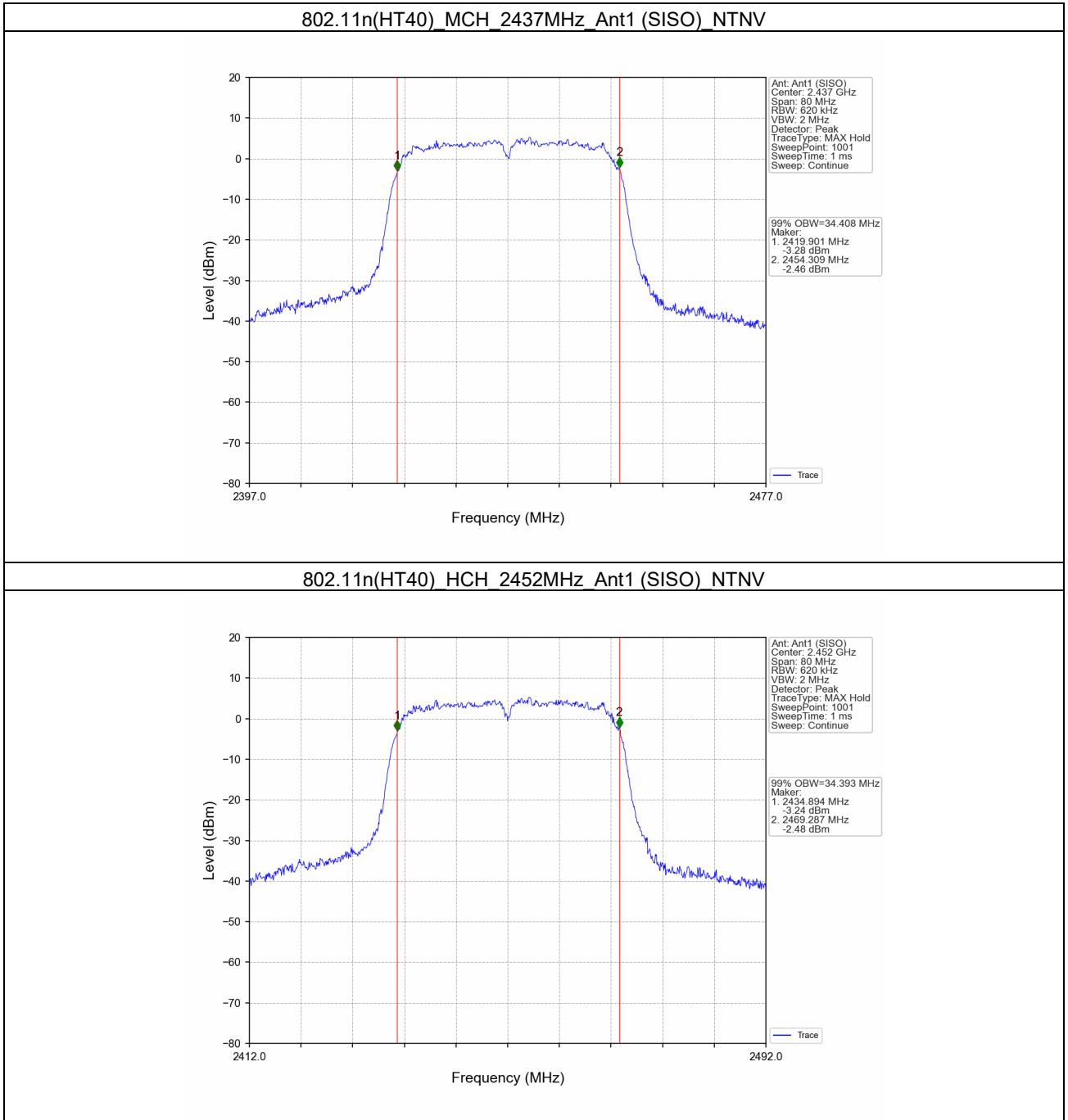
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.717	>=0.5	Pass
		2437	1	9.721	>=0.5	Pass
		2462	1	10.088	>=0.5	Pass
802.11g	SISO	2412	1	16.626	>=0.5	Pass
		2437	1	16.682	>=0.5	Pass
		2462	1	16.668	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.730	>=0.5	Pass
		2437	1	17.783	>=0.5	Pass
		2462	1	17.730	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	32.949	>=0.5	Pass
		2437	1	33.094	>=0.5	Pass
		2452	1	33.099	>=0.5	Pass



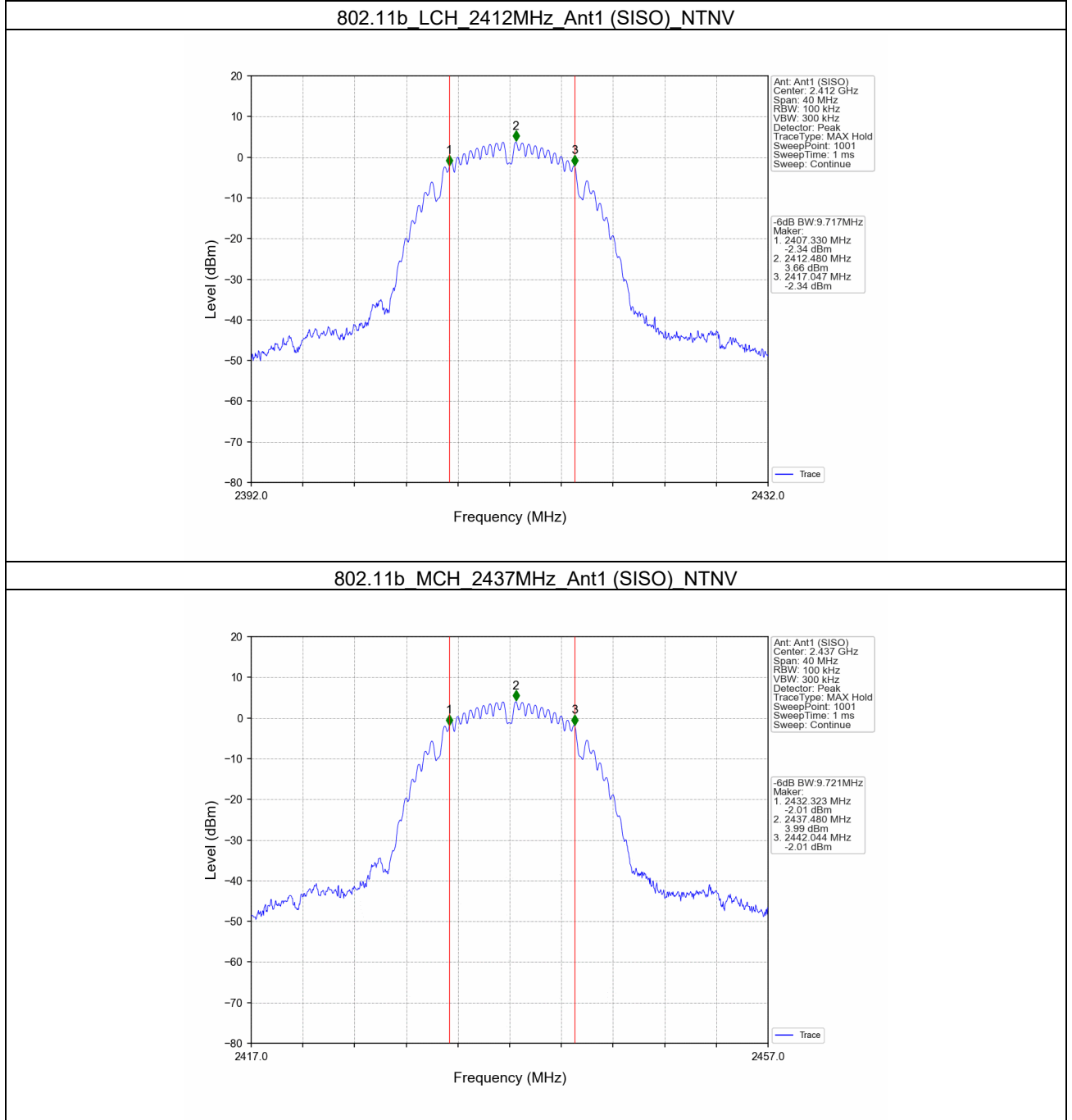
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2.2.2 Test Graph

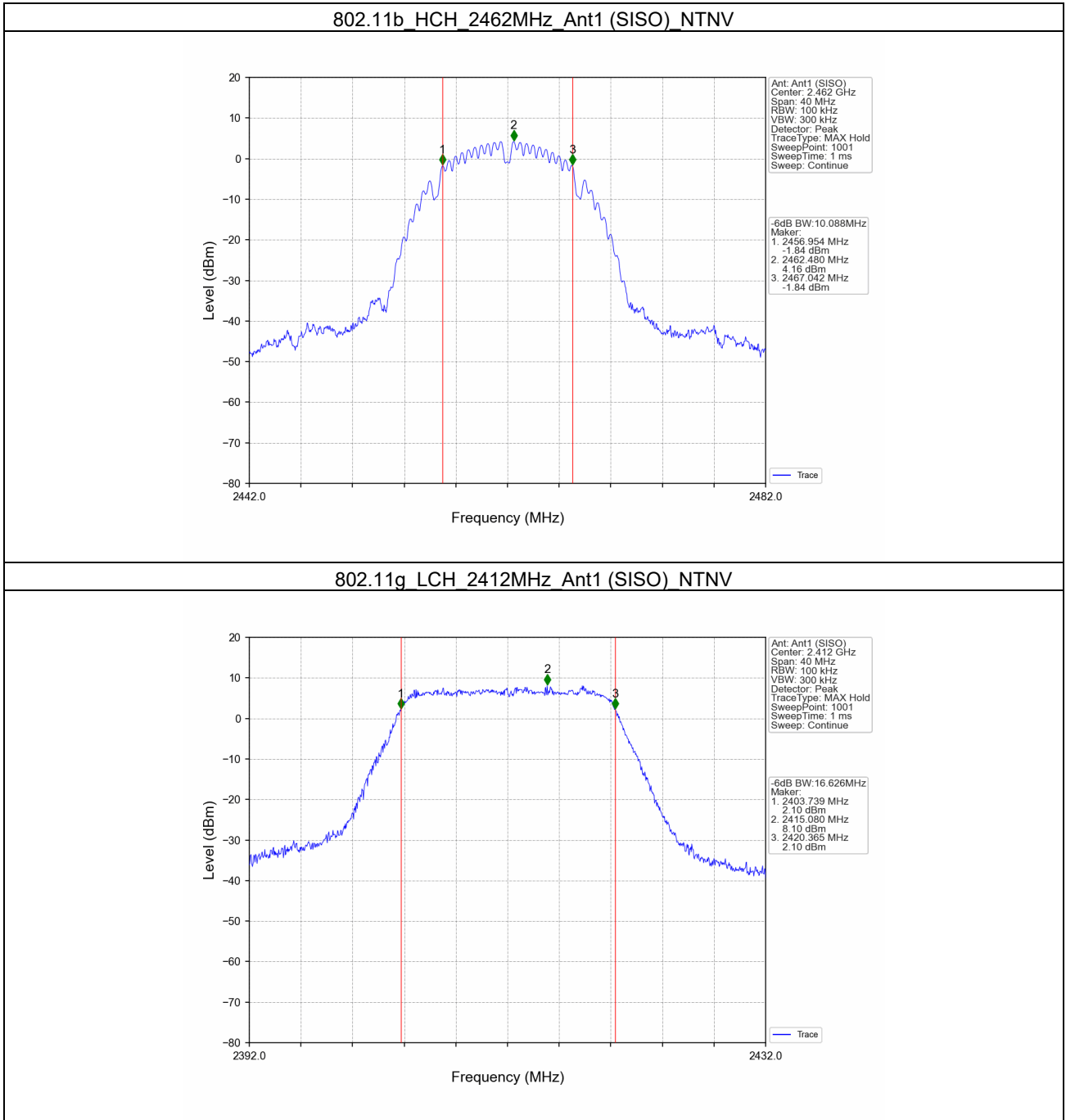


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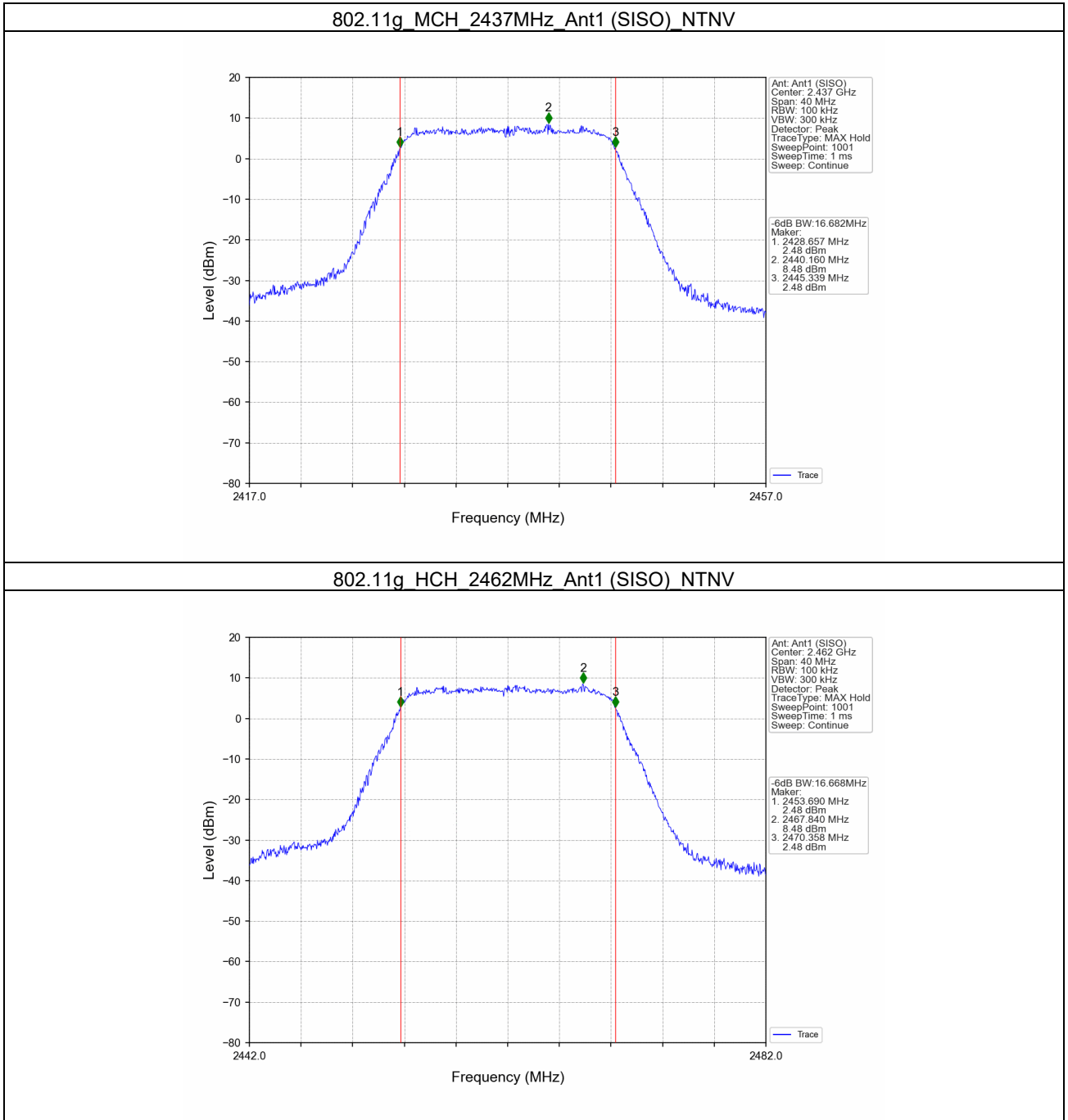
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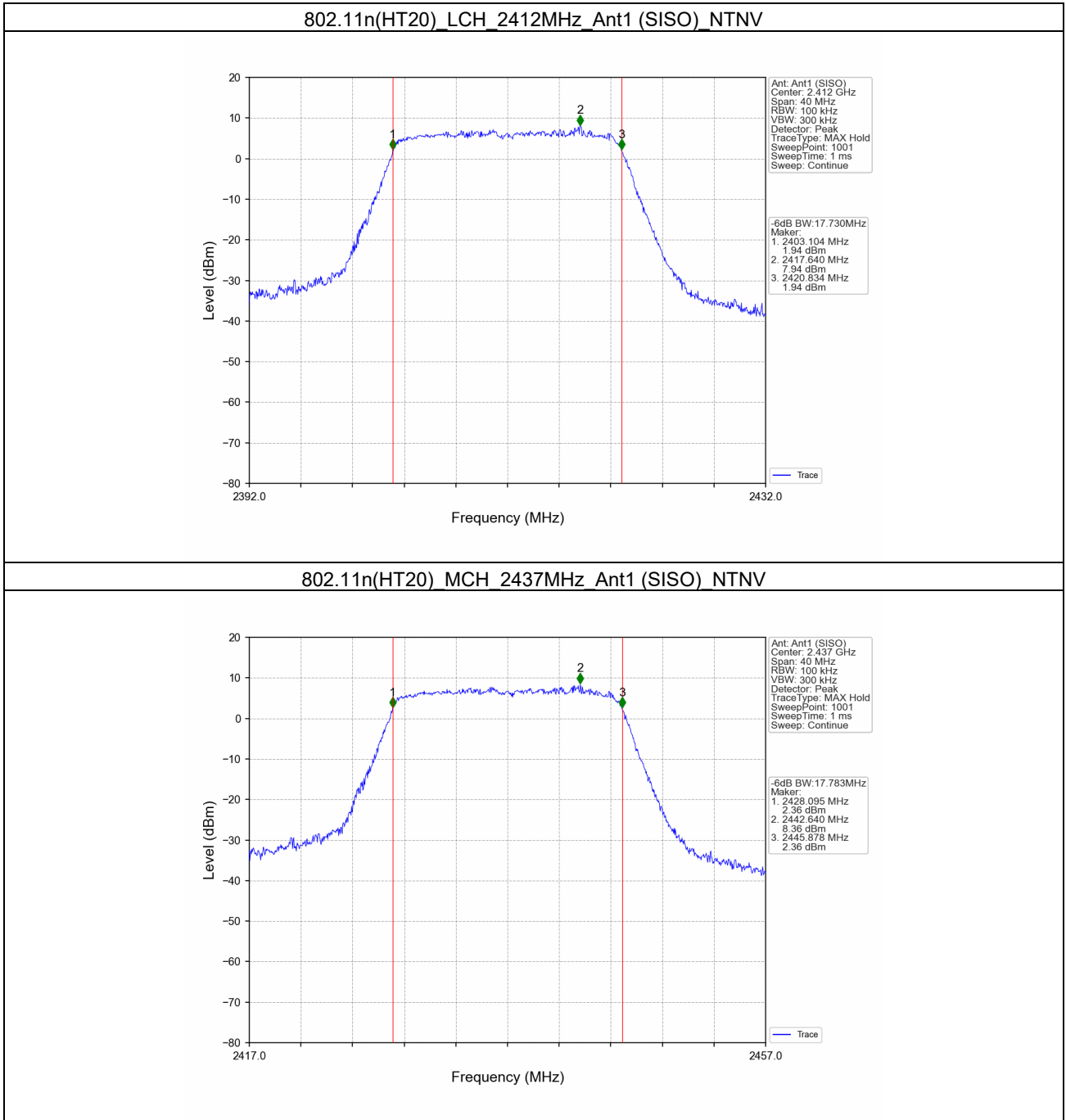
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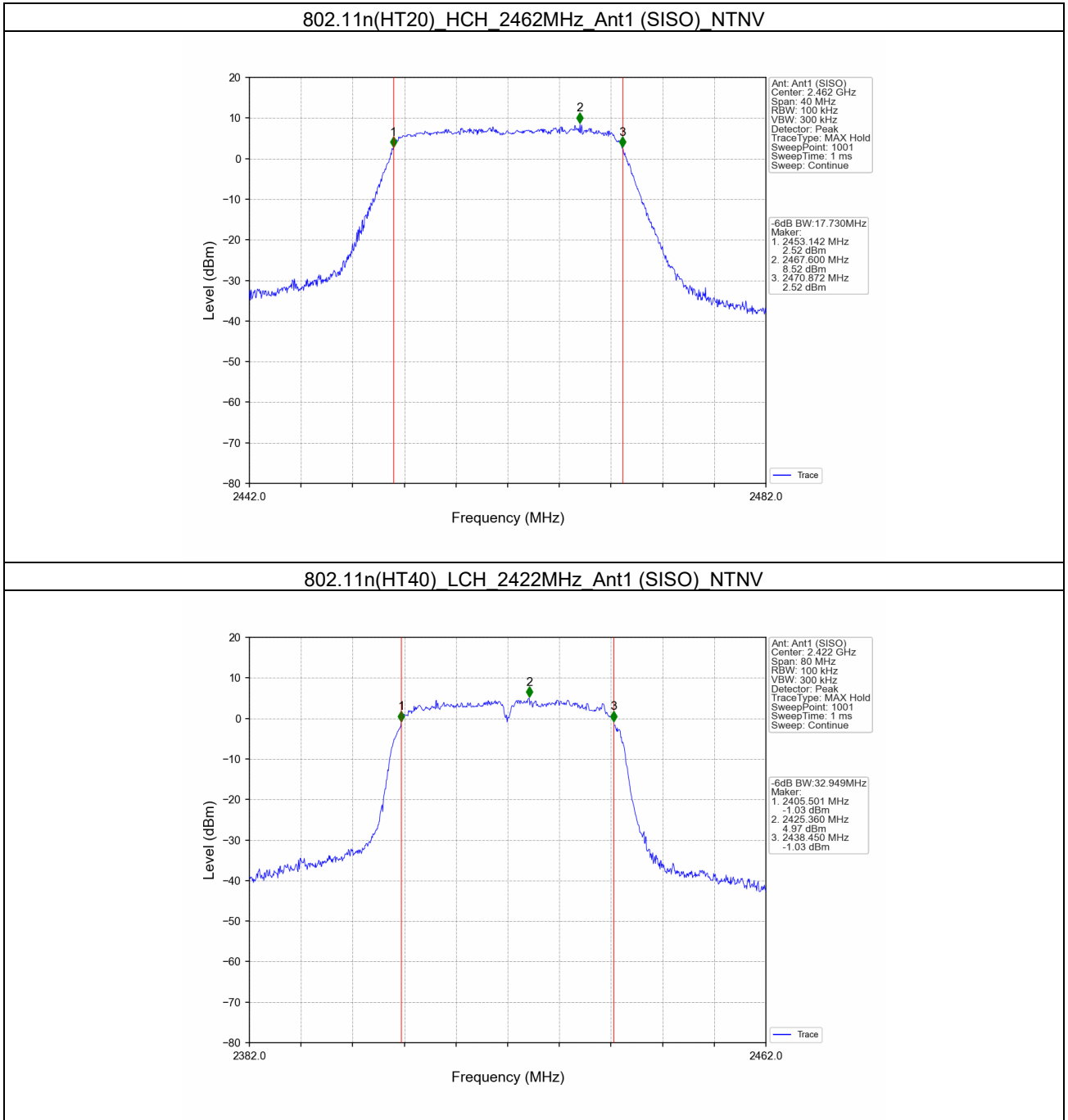
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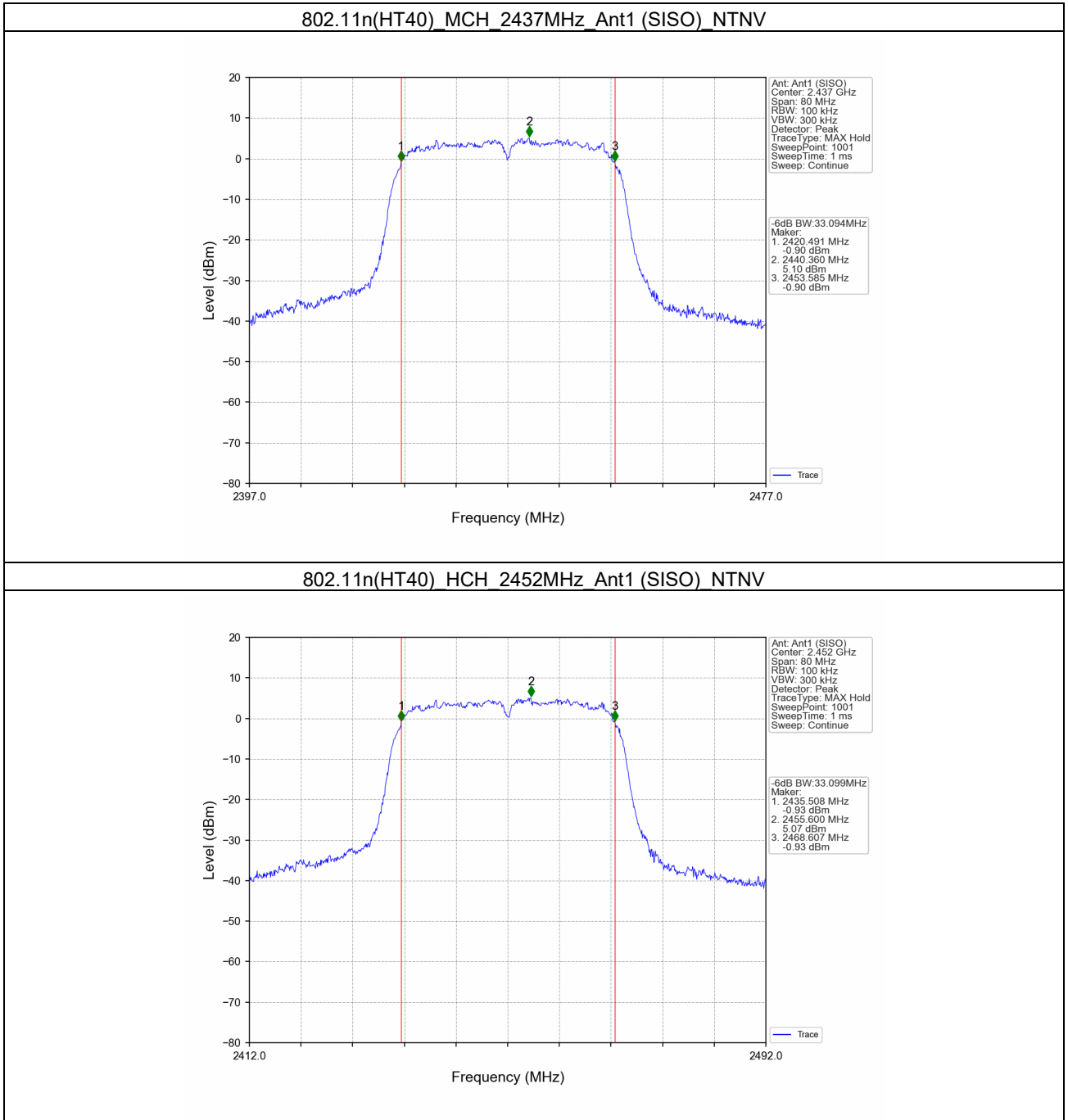
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	11.89	<=30	Pass
		2437	12.22	<=30	Pass
		2462	12.42	<=30	Pass
802.11g	SISO	2412	13.00	<=30	Pass
		2437	13.38	<=30	Pass
		2462	13.48	<=30	Pass
802.11n (HT20)	SISO	2412	12.82	<=30	Pass
		2437	13.31	<=30	Pass
		2462	13.41	<=30	Pass
802.11n (HT40)	SISO	2422	12.81	<=30	Pass
		2437	12.93	<=30	Pass
		2452	13.00	<=30	Pass

Note1: Antenna Gain: Ant1: 2.84dBi;

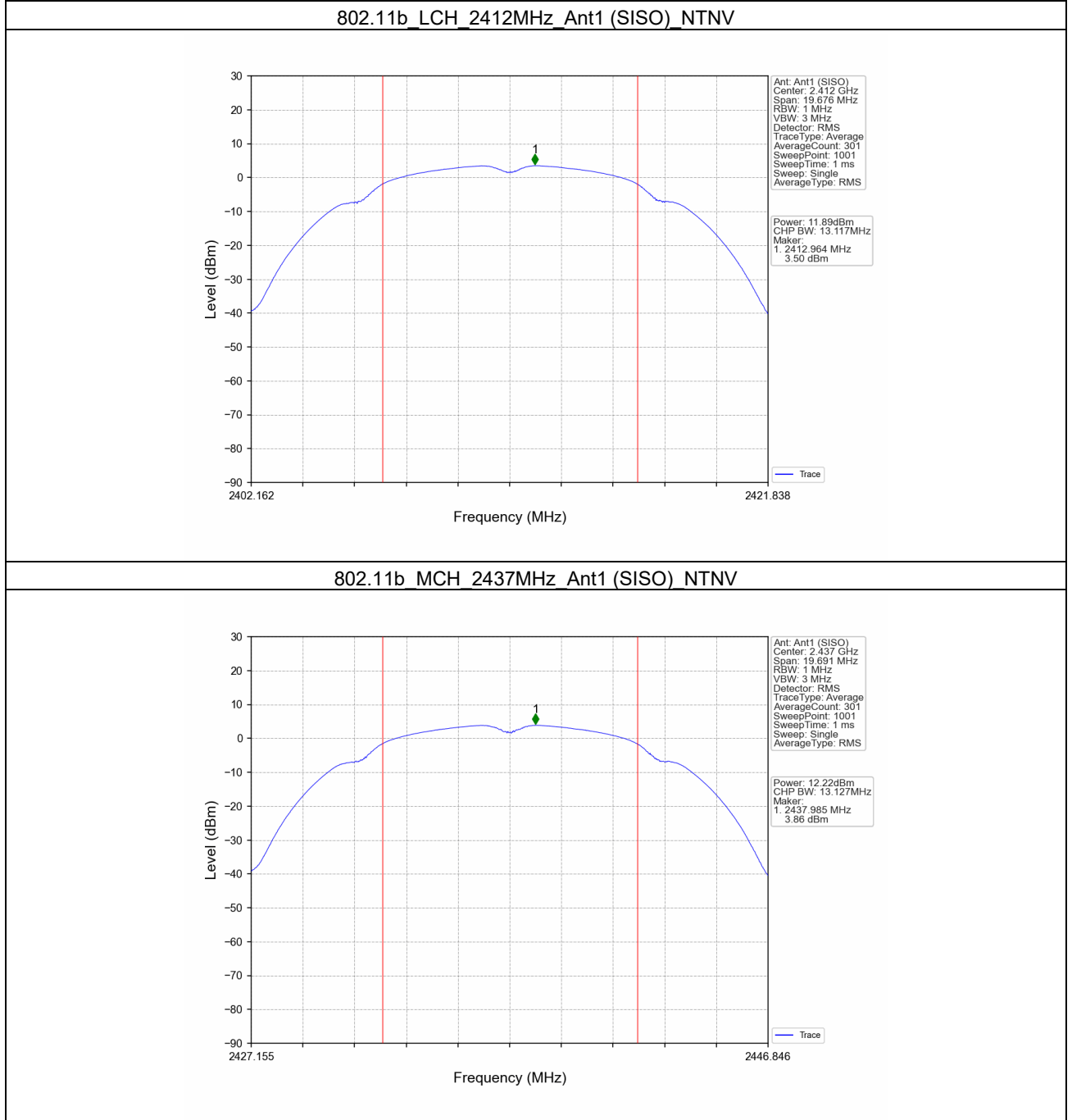


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3.1.2 Test Graph

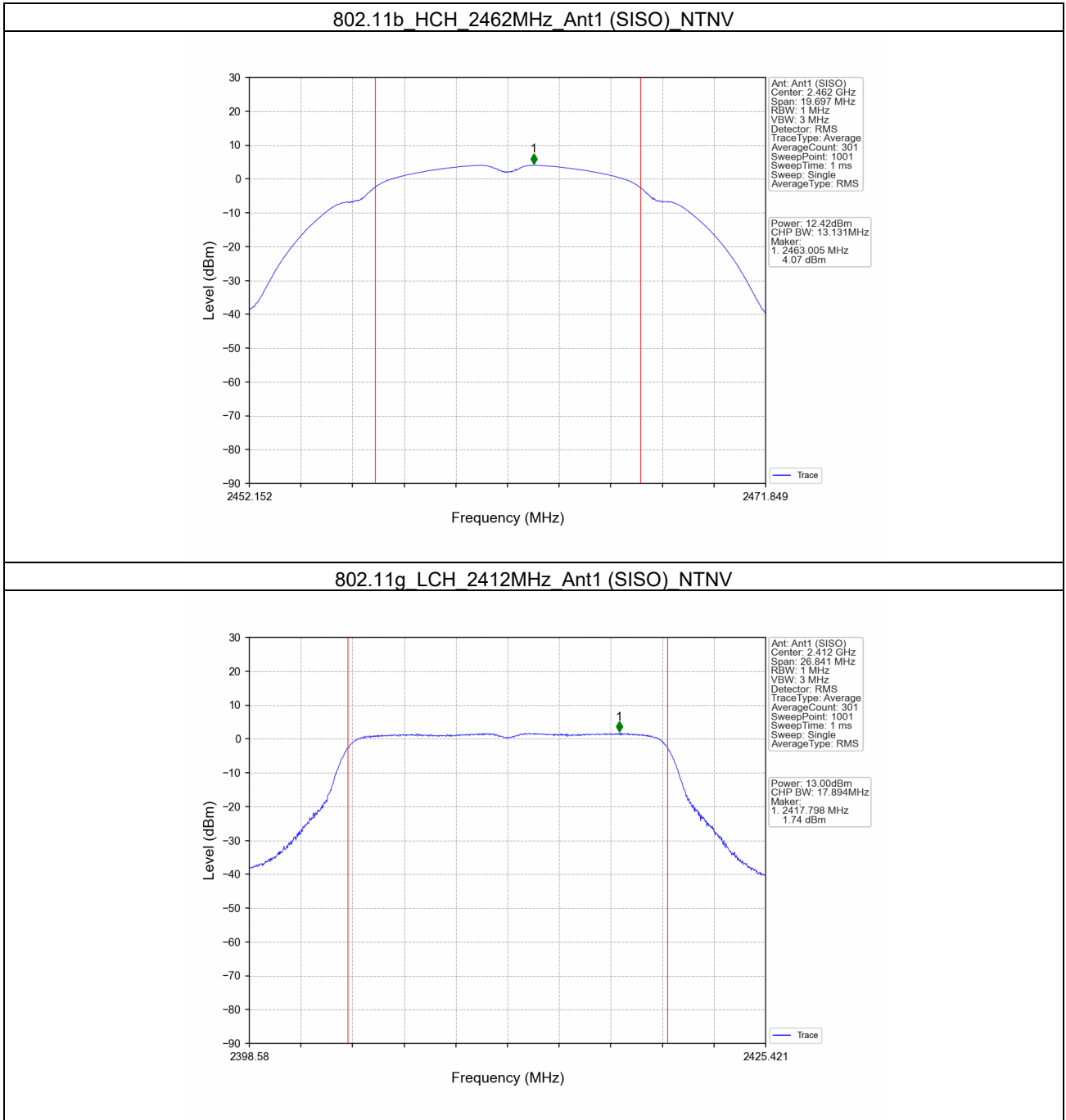


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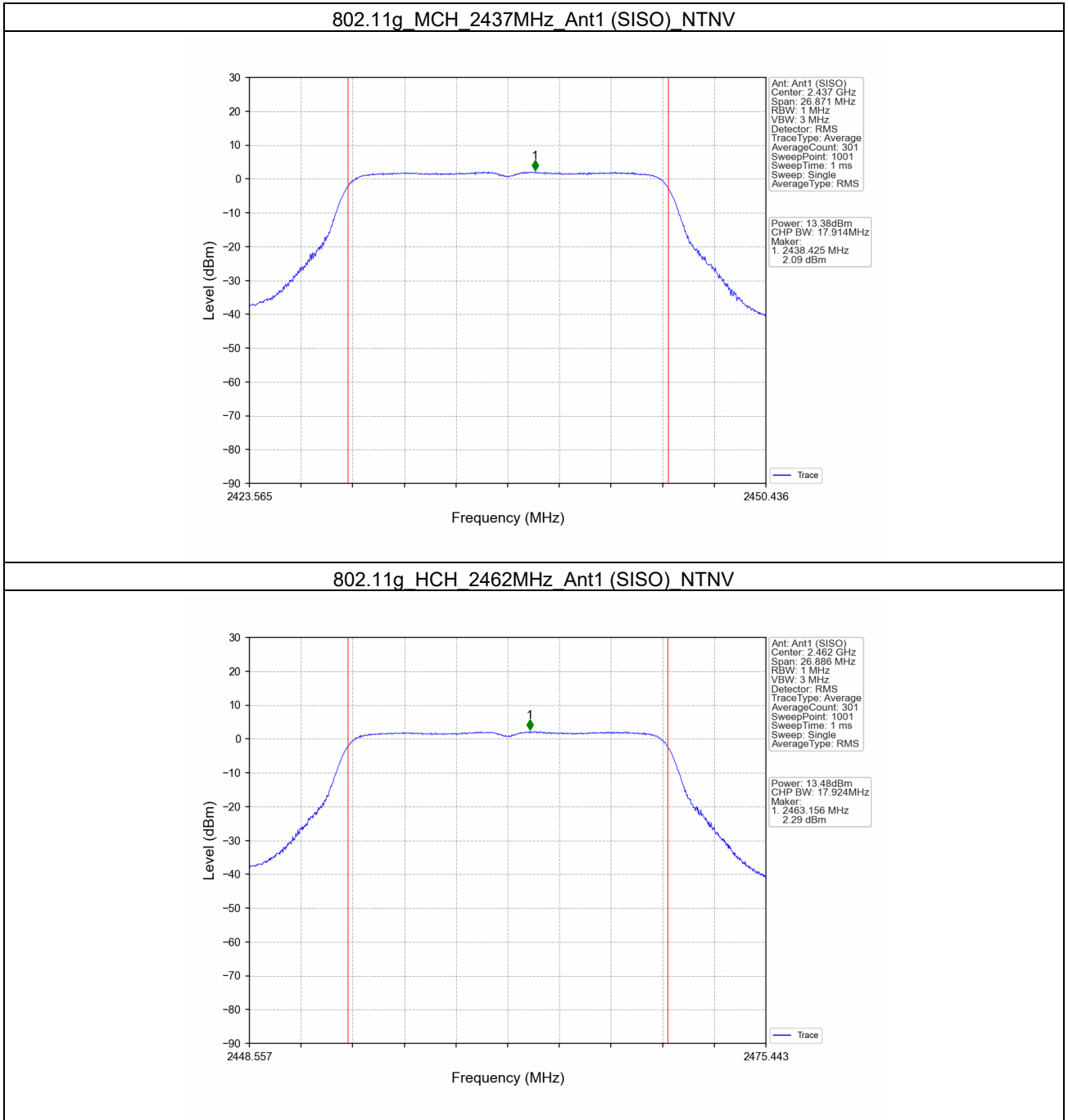
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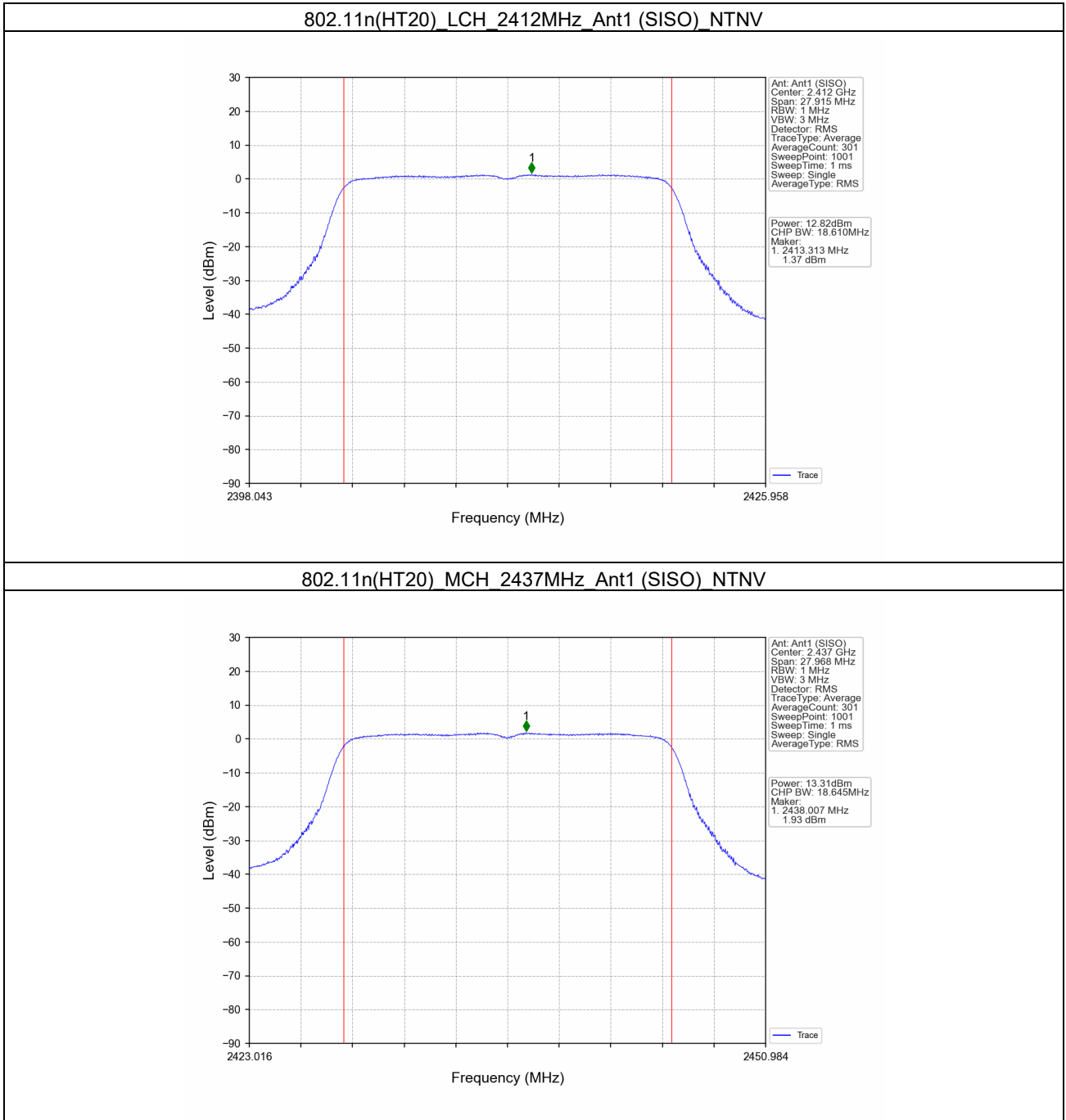


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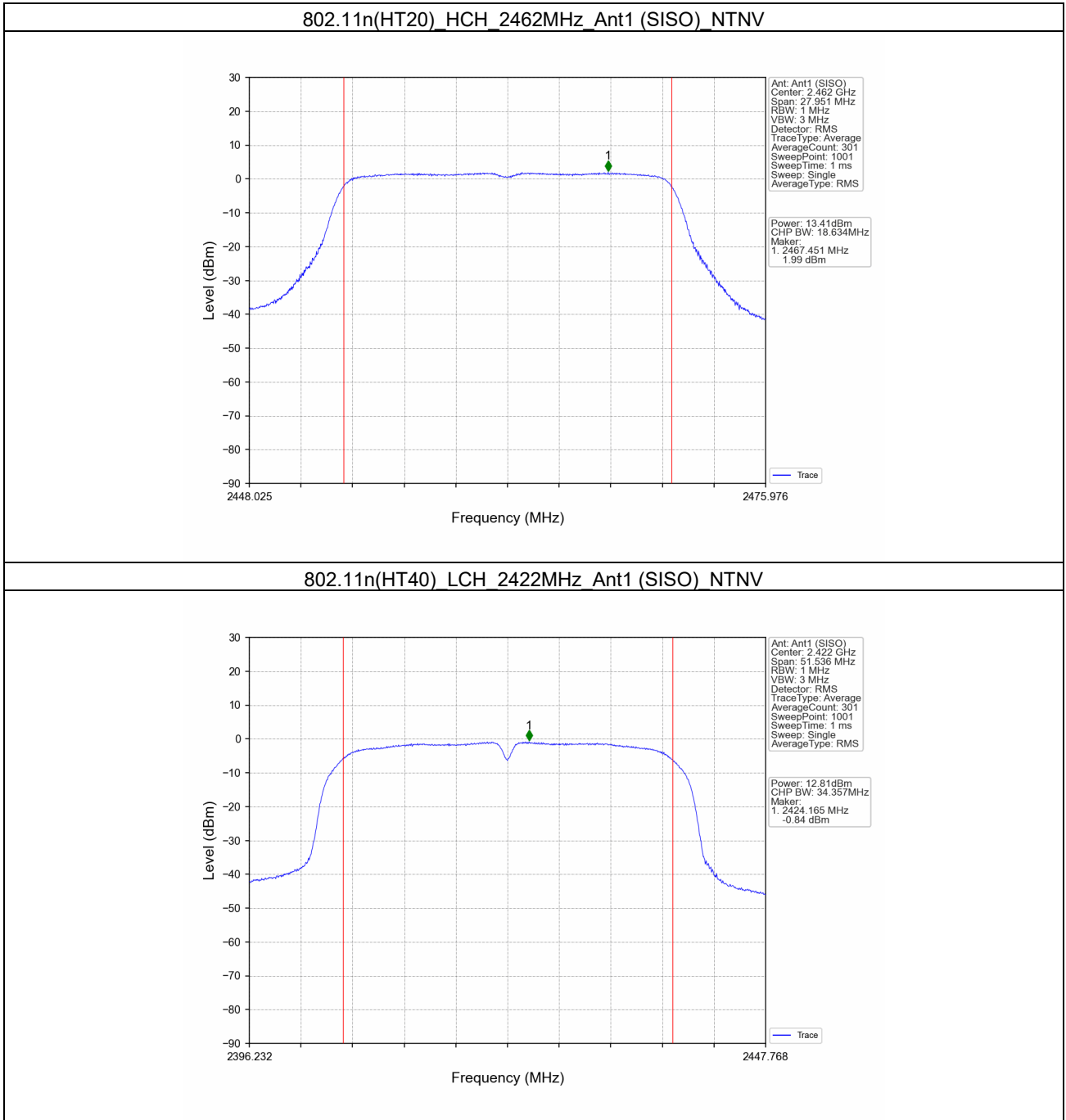
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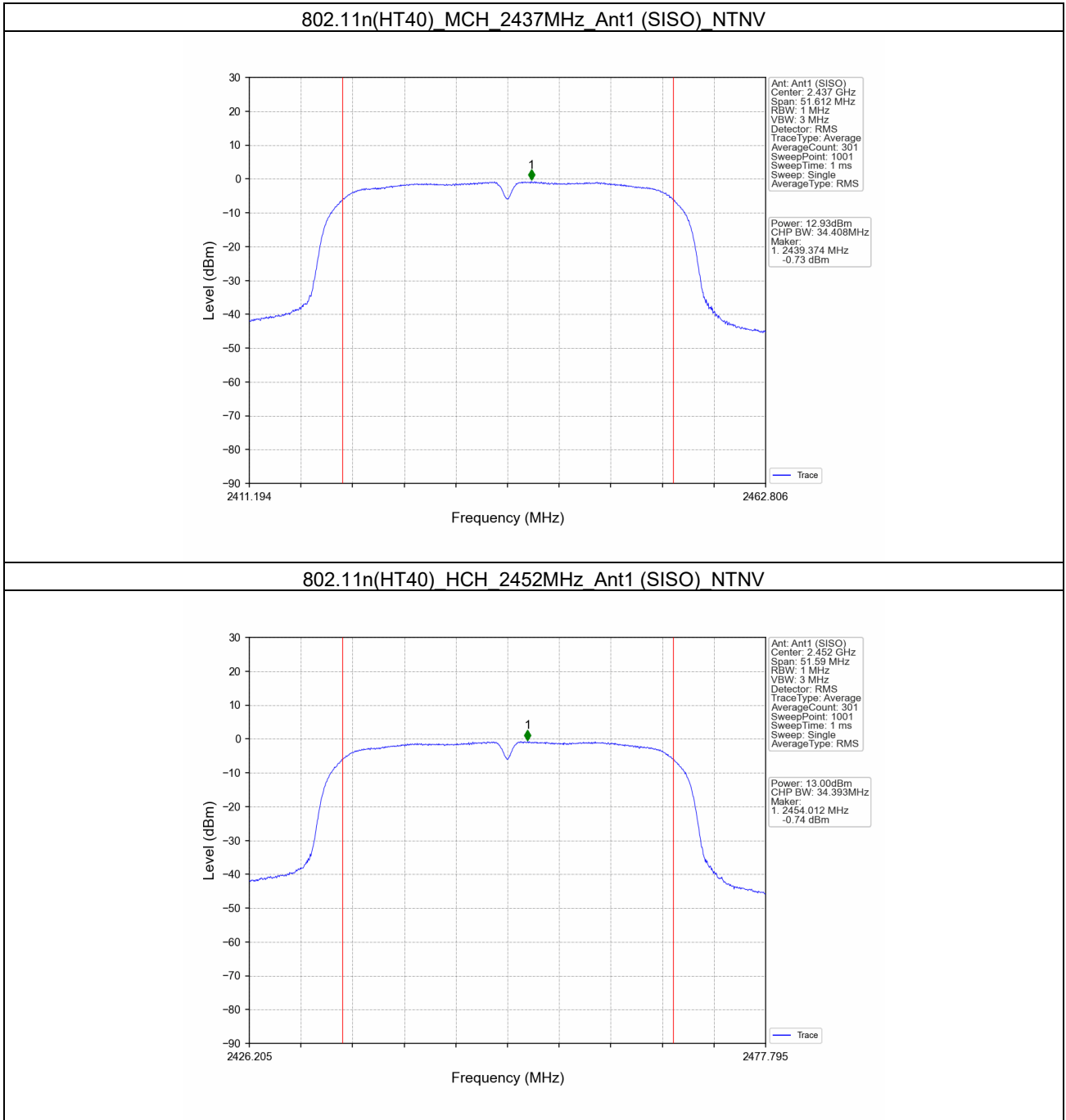


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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-9.22	<=8	Pass
		2437	-9.92	<=8	Pass
		2462	-11.08	<=8	Pass
802.11g	SISO	2412	-12.43	<=8	Pass
		2437	-12.26	<=8	Pass
		2462	-12.03	<=8	Pass
802.11n (HT20)	SISO	2412	-13.31	<=8	Pass
		2437	-12.02	<=8	Pass
		2462	-11.98	<=8	Pass
802.11n (HT40)	SISO	2422	-16.12	<=8	Pass
		2437	-13.62	<=8	Pass
		2452	-14.10	<=8	Pass

Note1: Antenna Gain: Ant1: 2.84dBi;



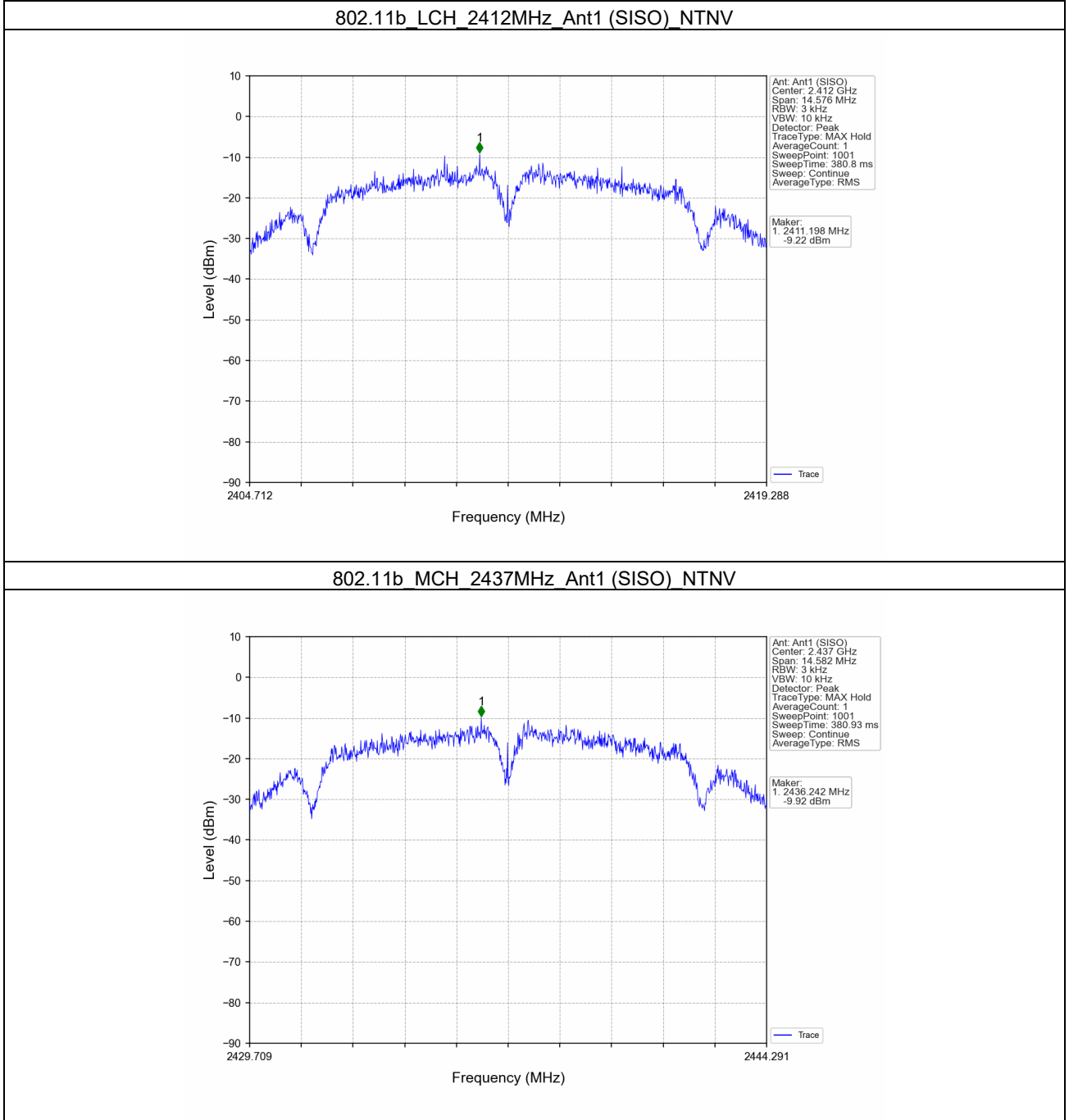
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4.1.2 Test Graph

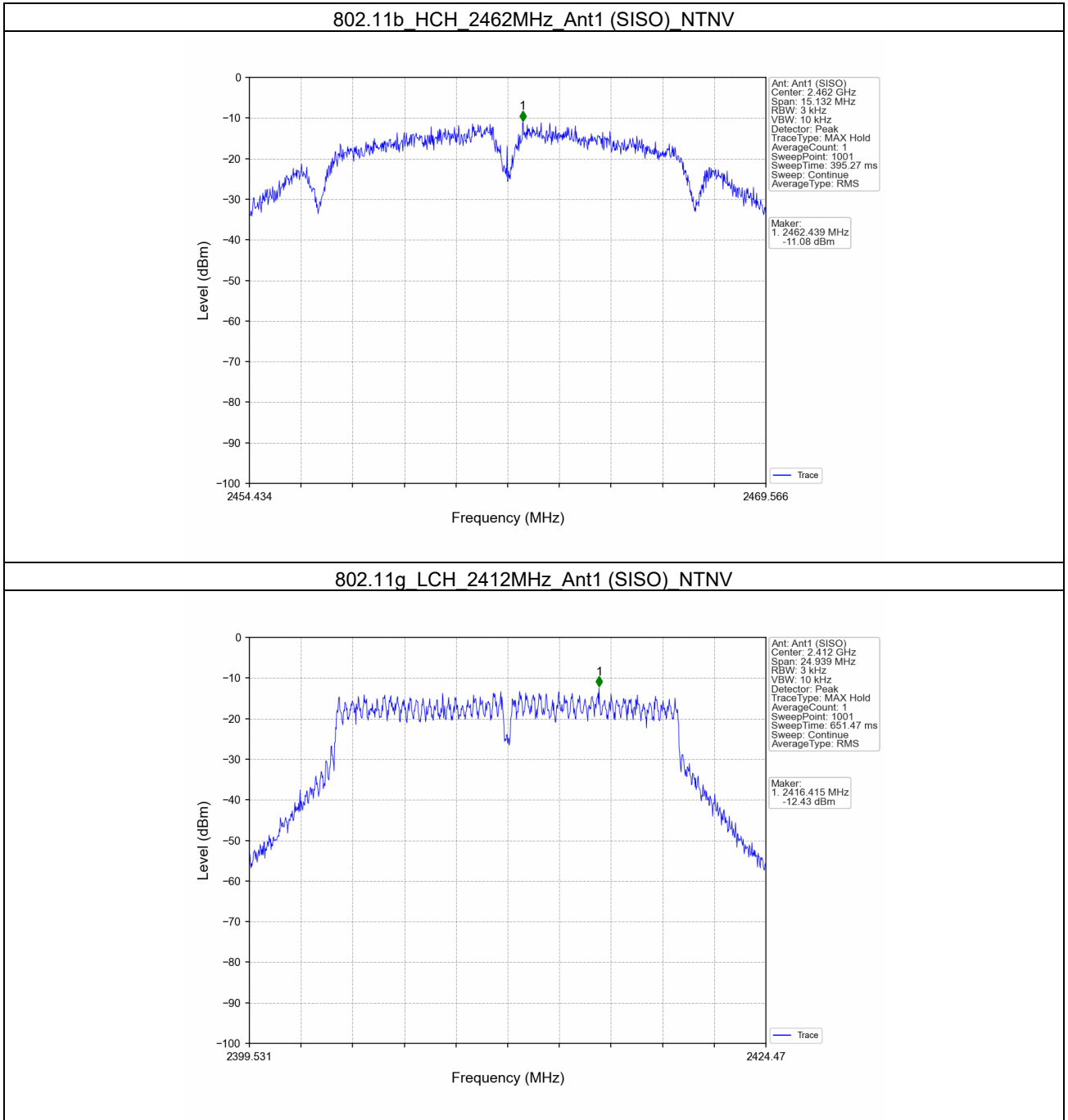


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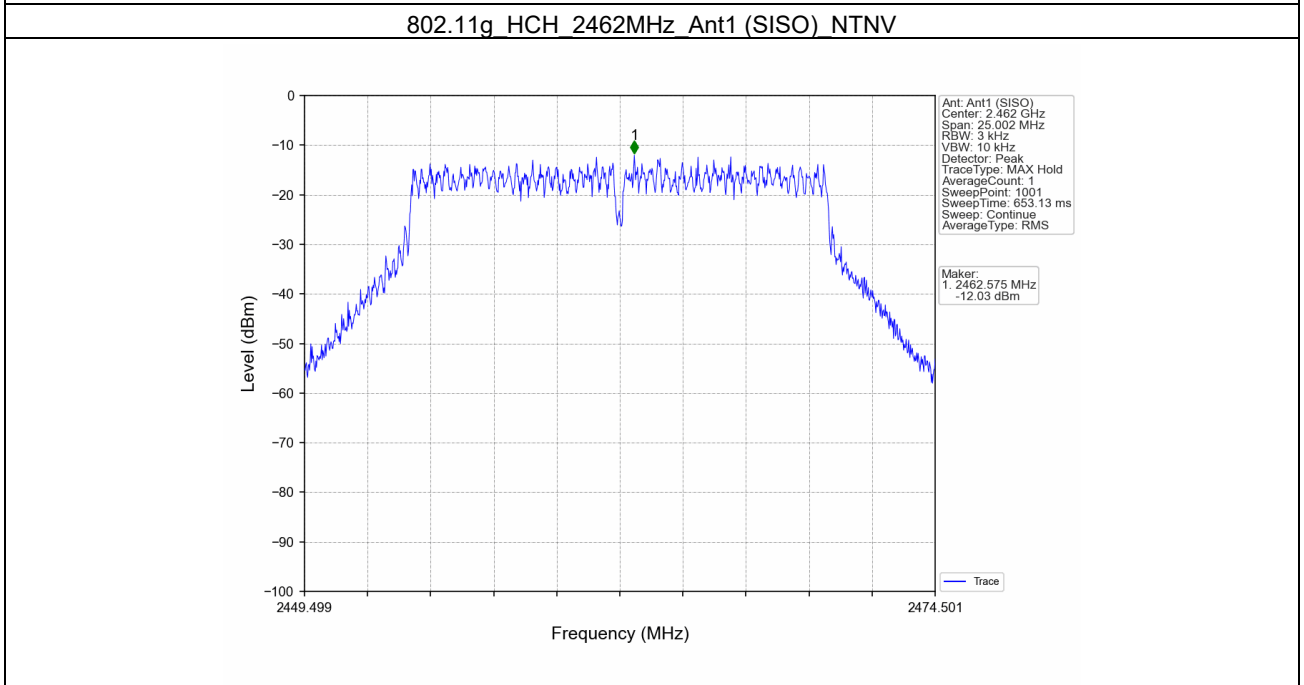
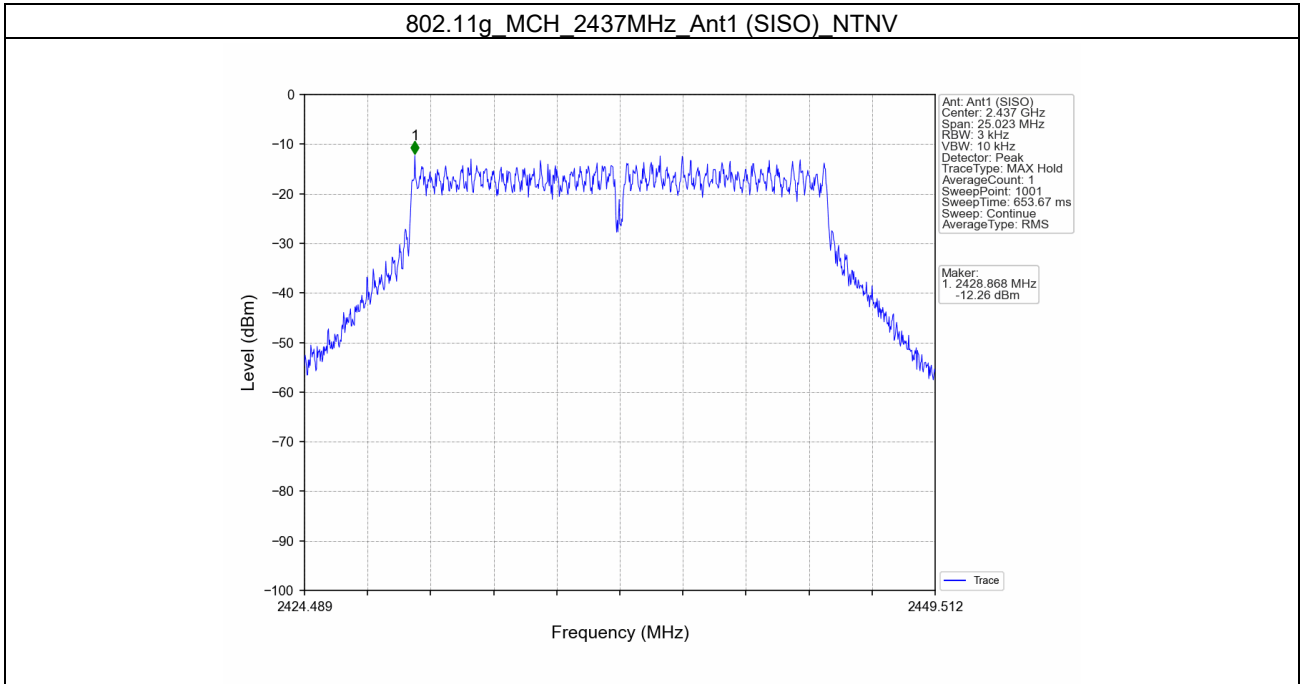
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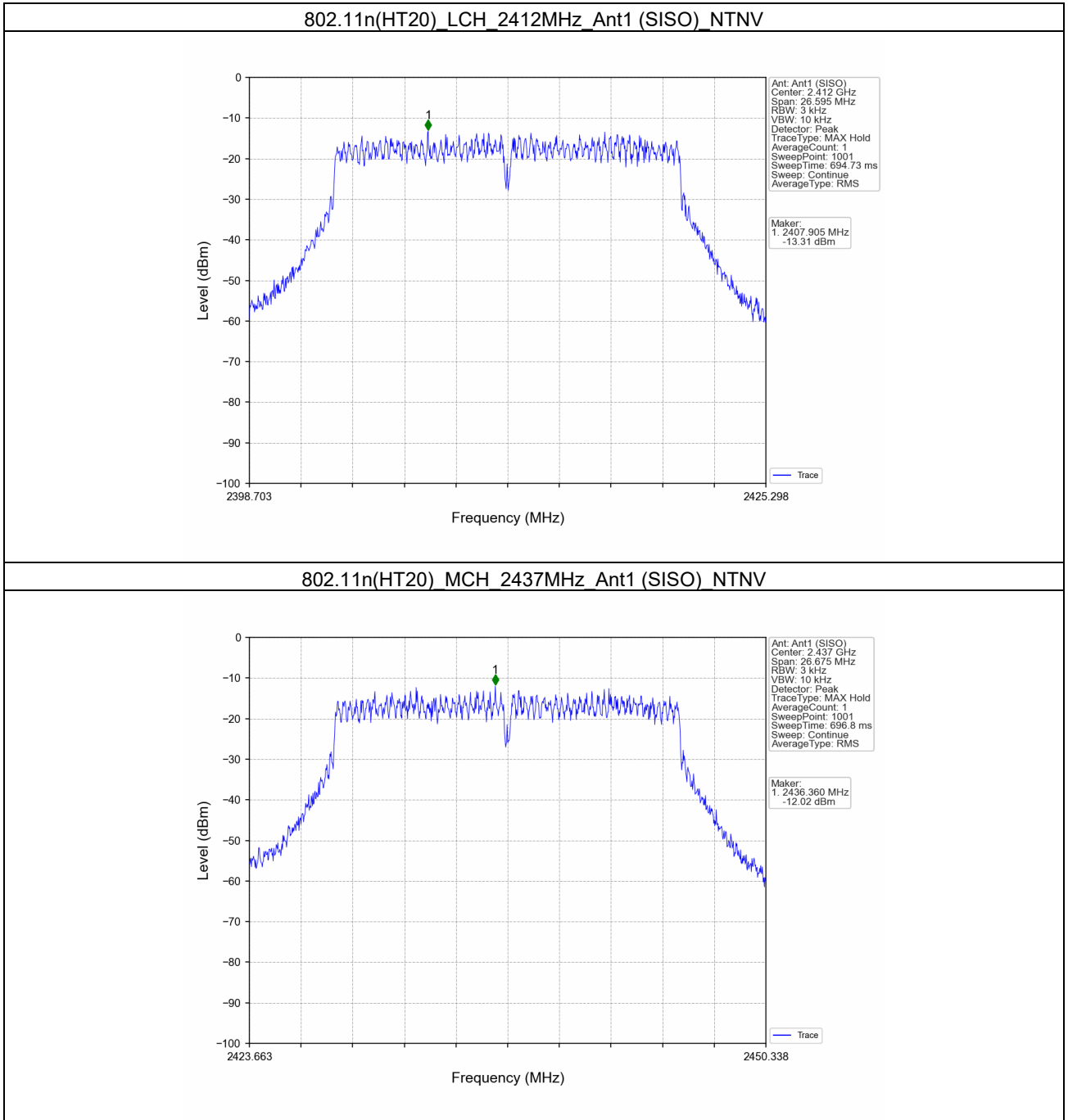
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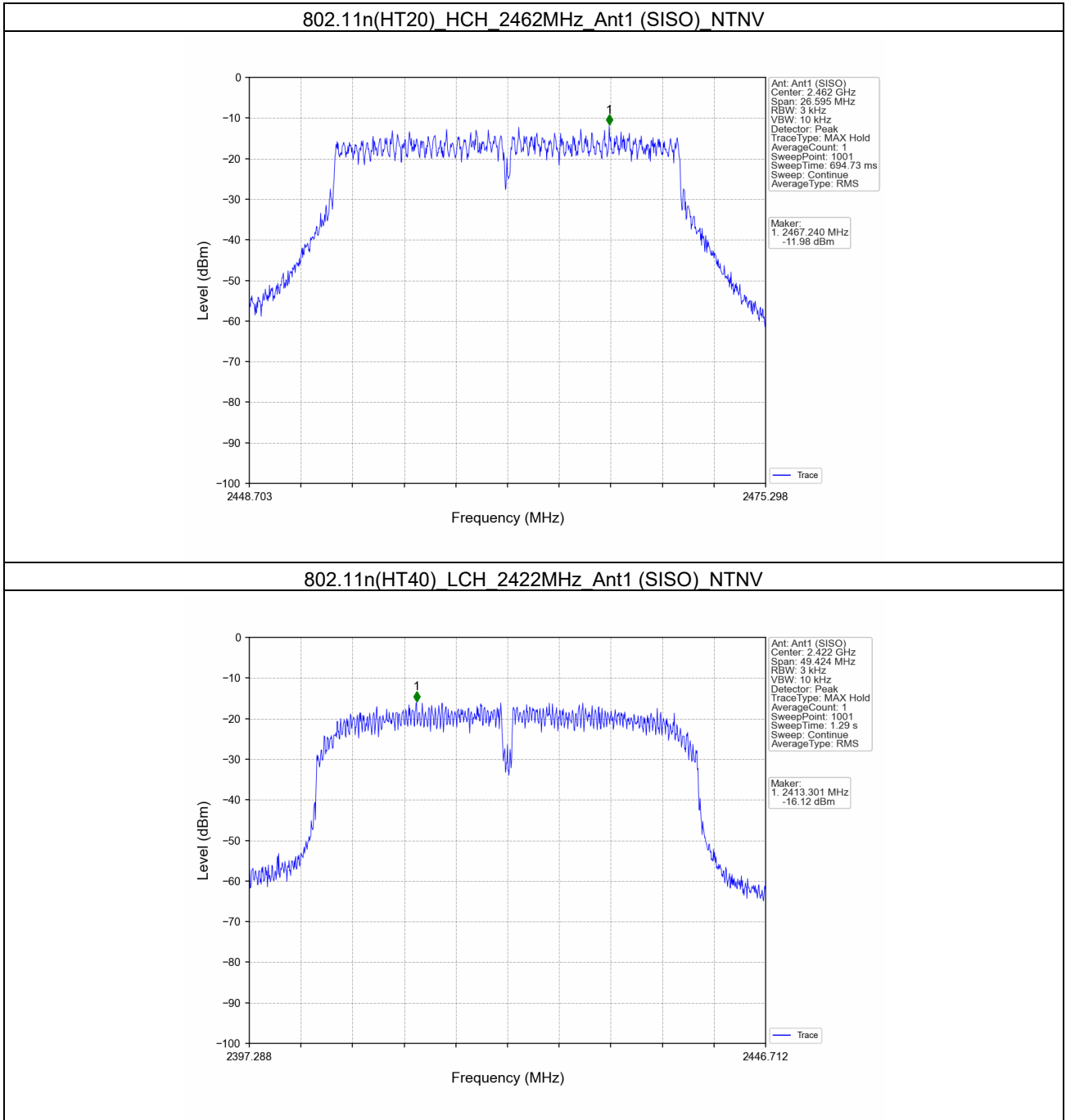
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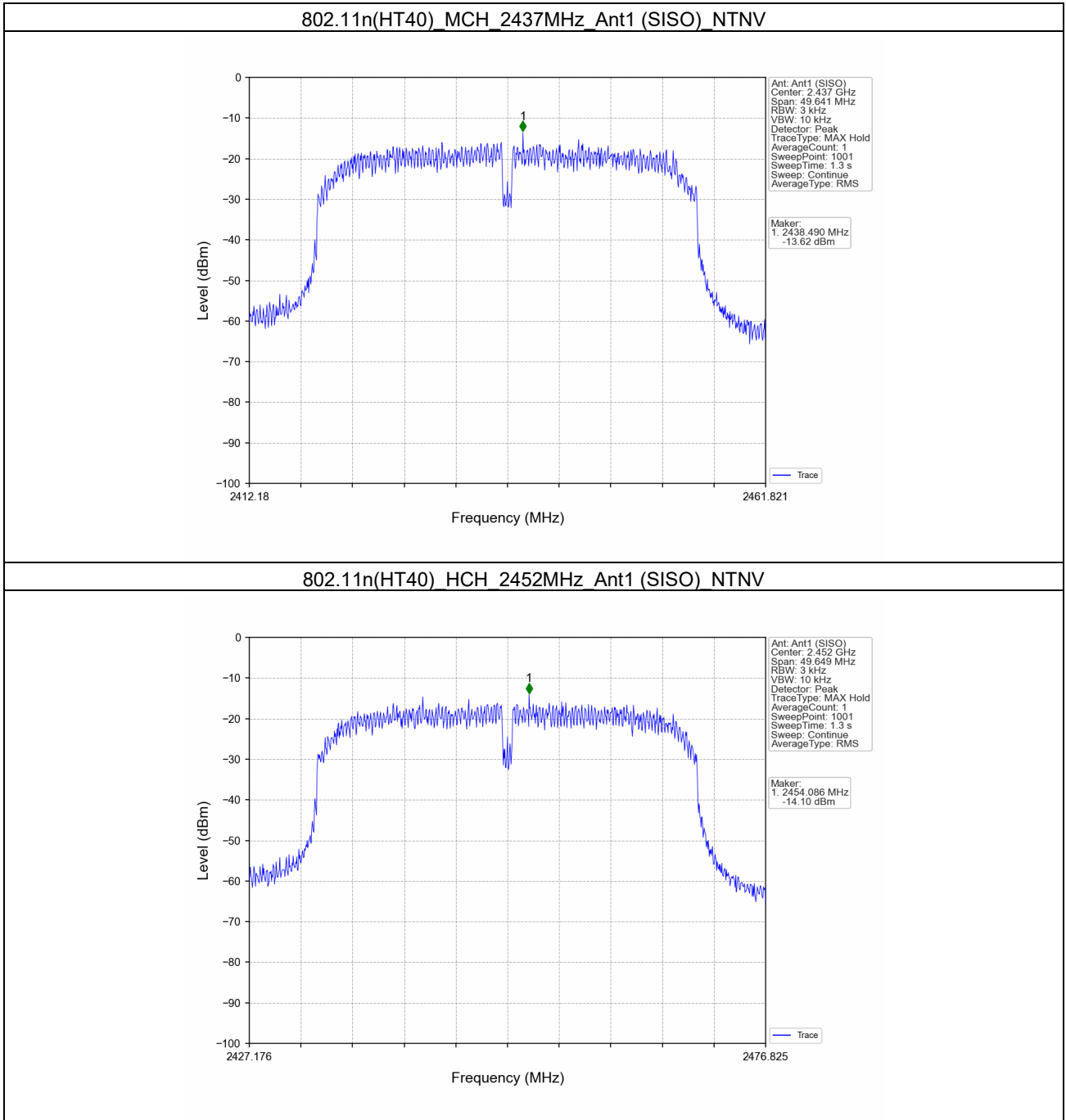


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5. Unwanted Emissions InStandard Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	3.27
		2437	1	3.59
		2462	1	3.78
802.11g	SISO	2412	1	1.21
		2437	1	1.77
		2462	1	1.49
802.11n (HT20)	SISO	2412	1	1.19
		2437	1	1.82
		2462	1	1.90
802.11n (HT40)	SISO	2422	1	-1.06
		2437	1	-1.35
		2452	1	-0.85

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.

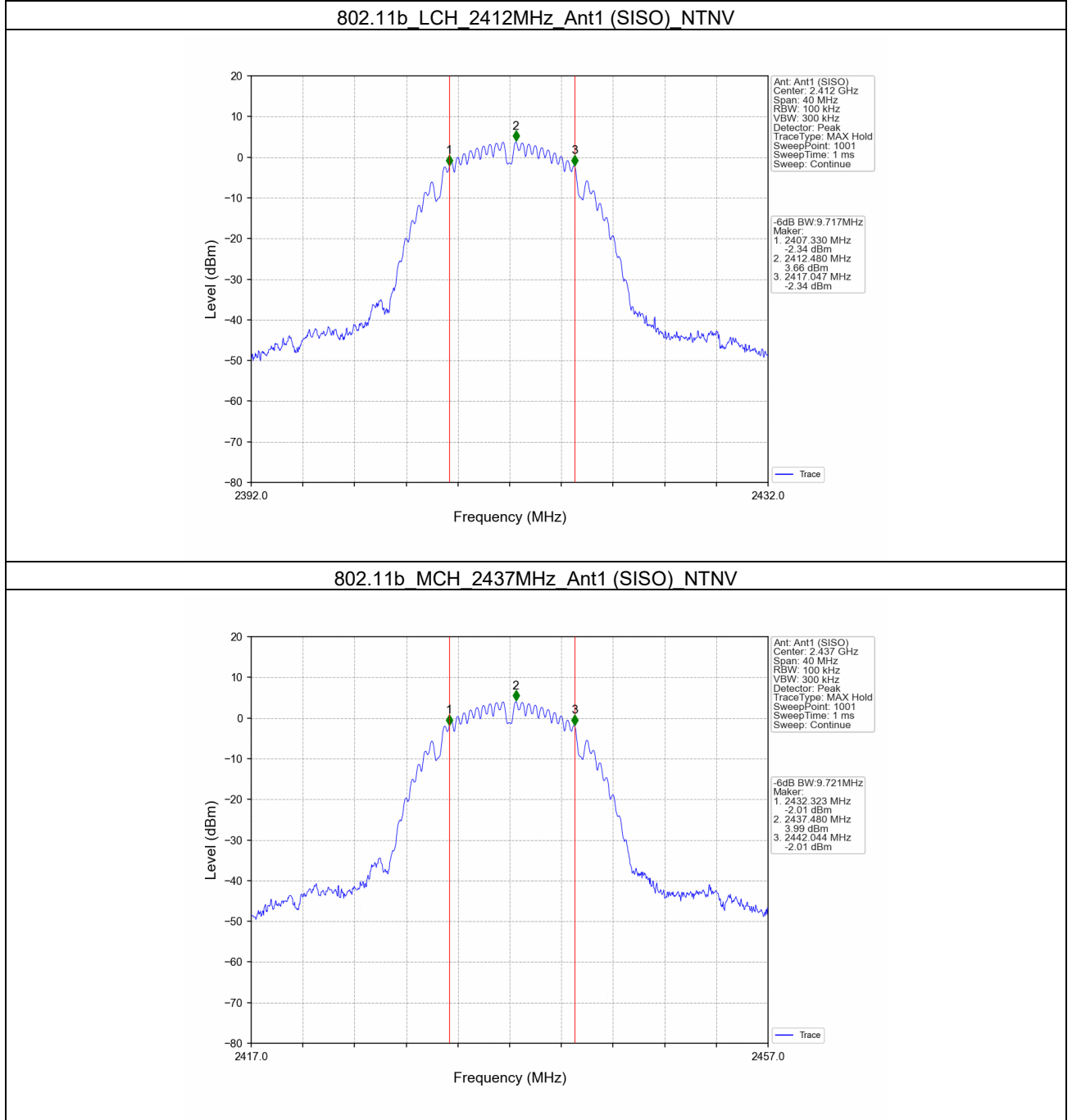


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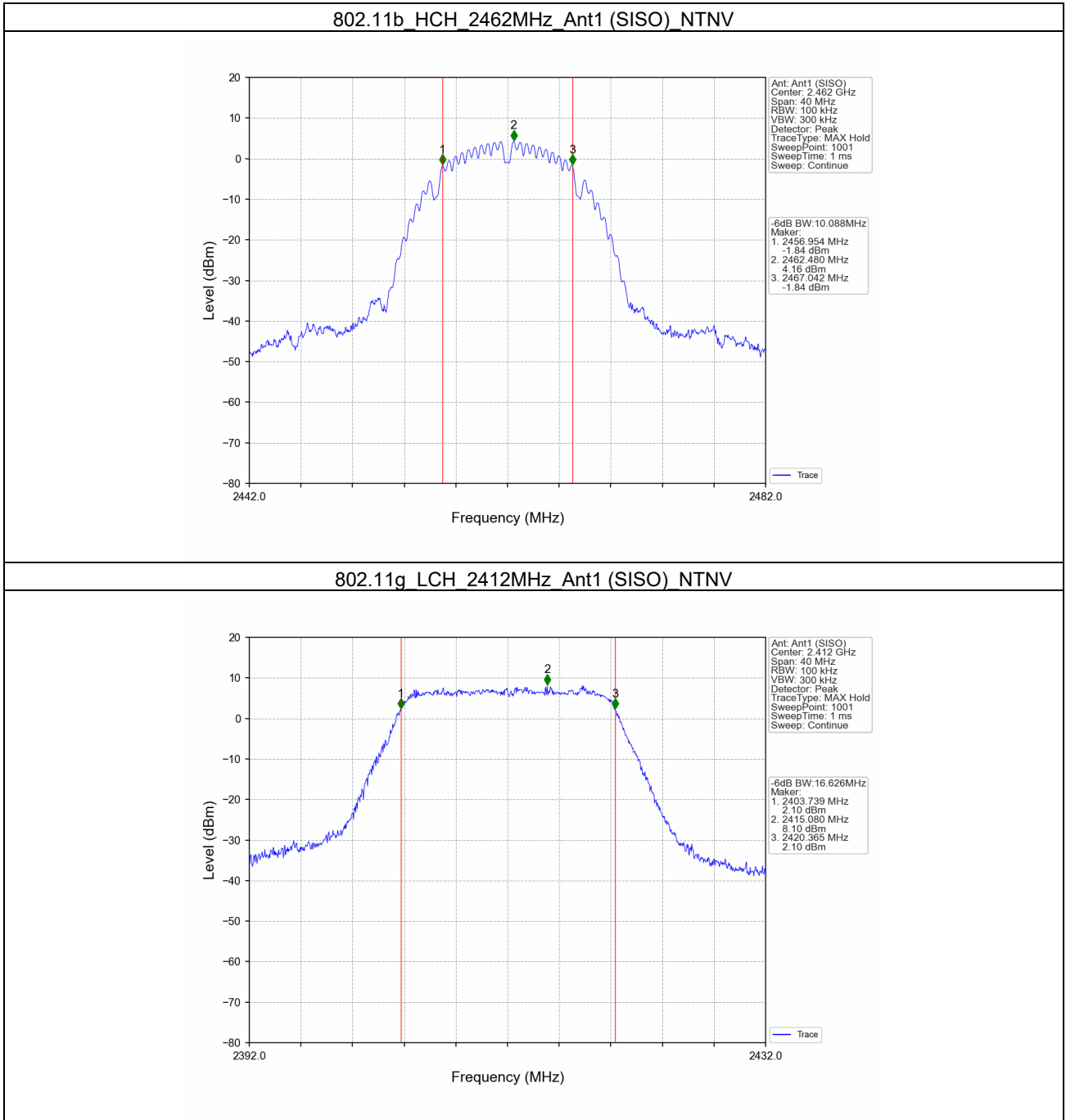
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5.1.2 Test Graph



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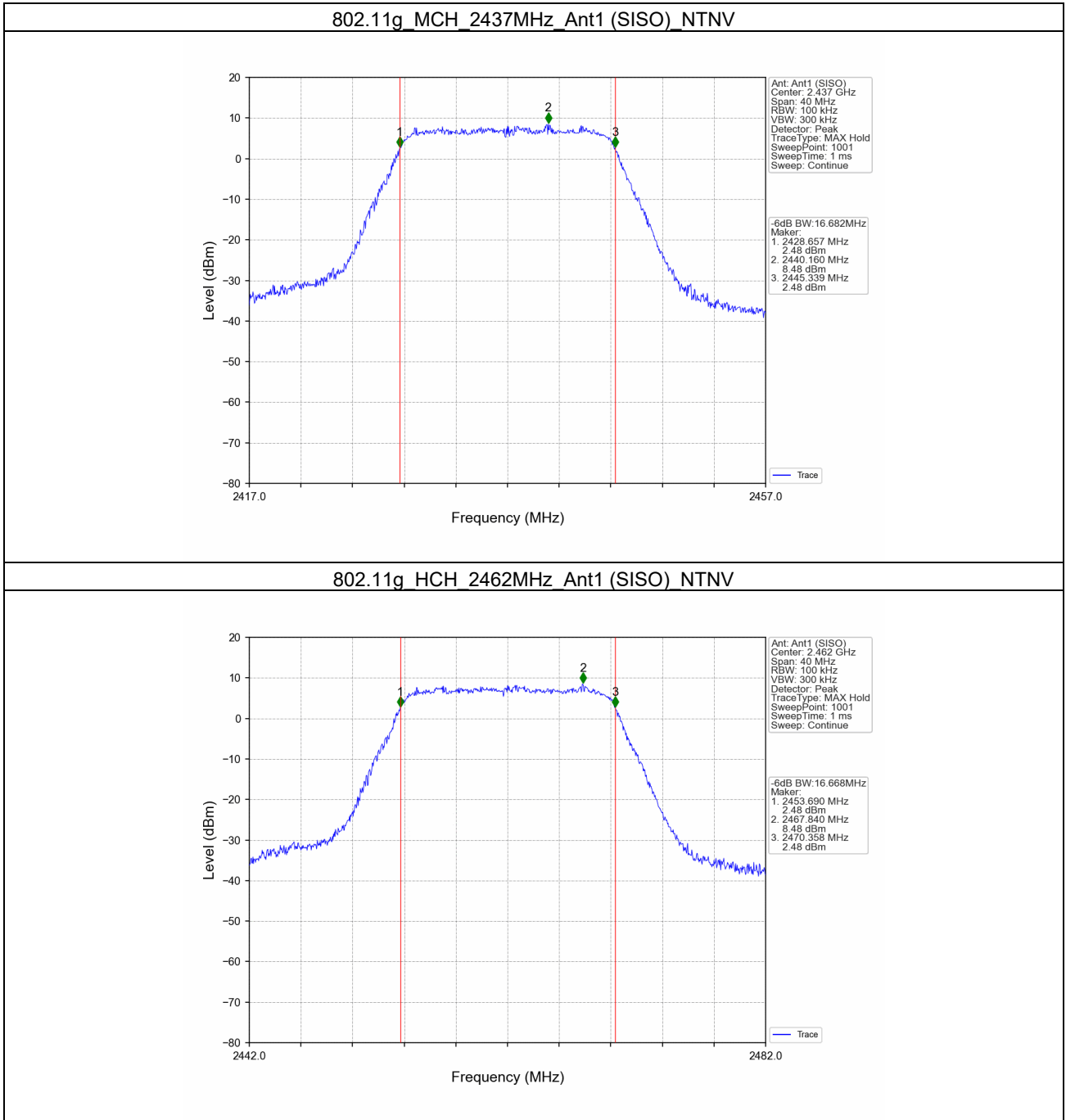
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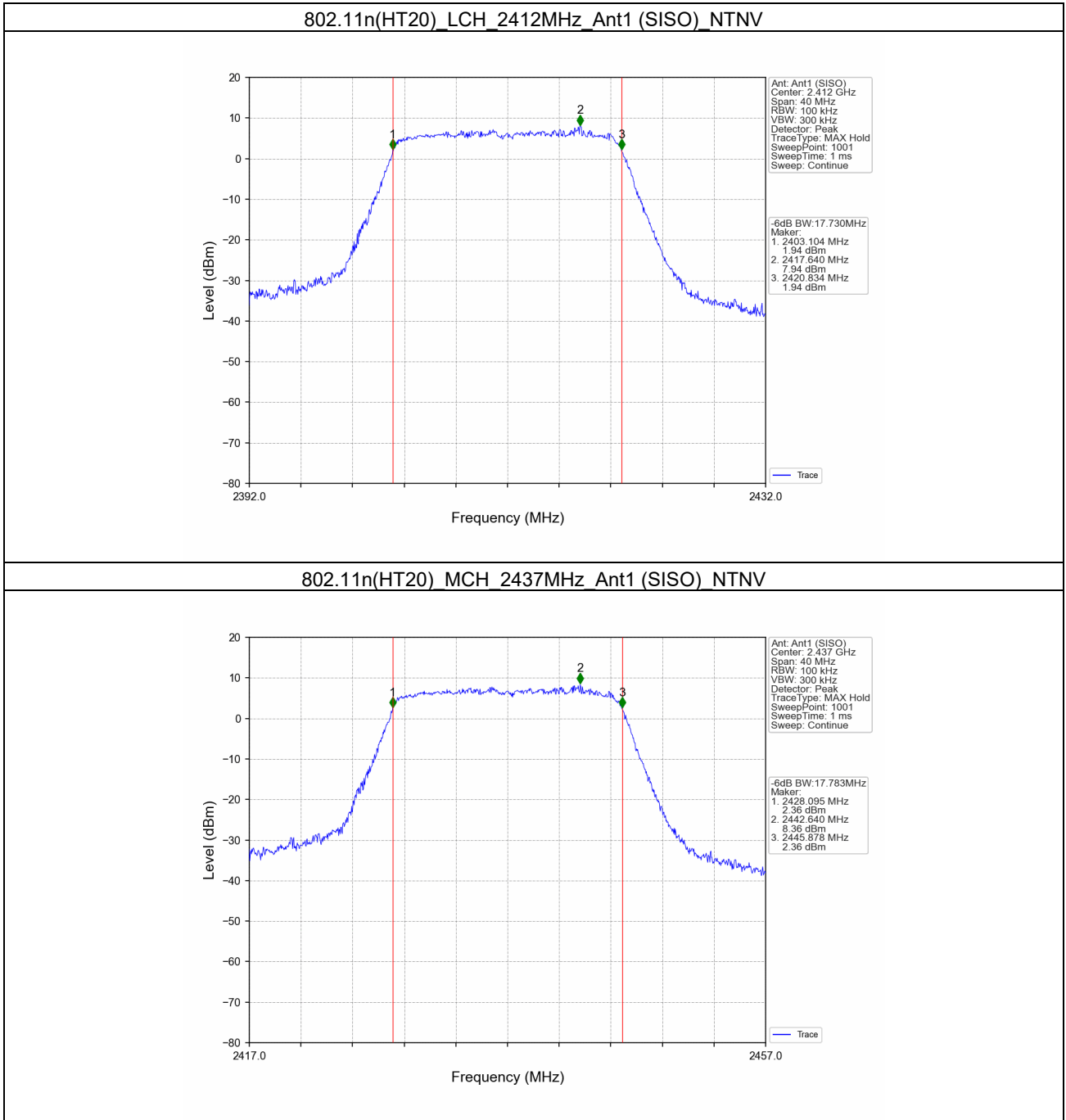
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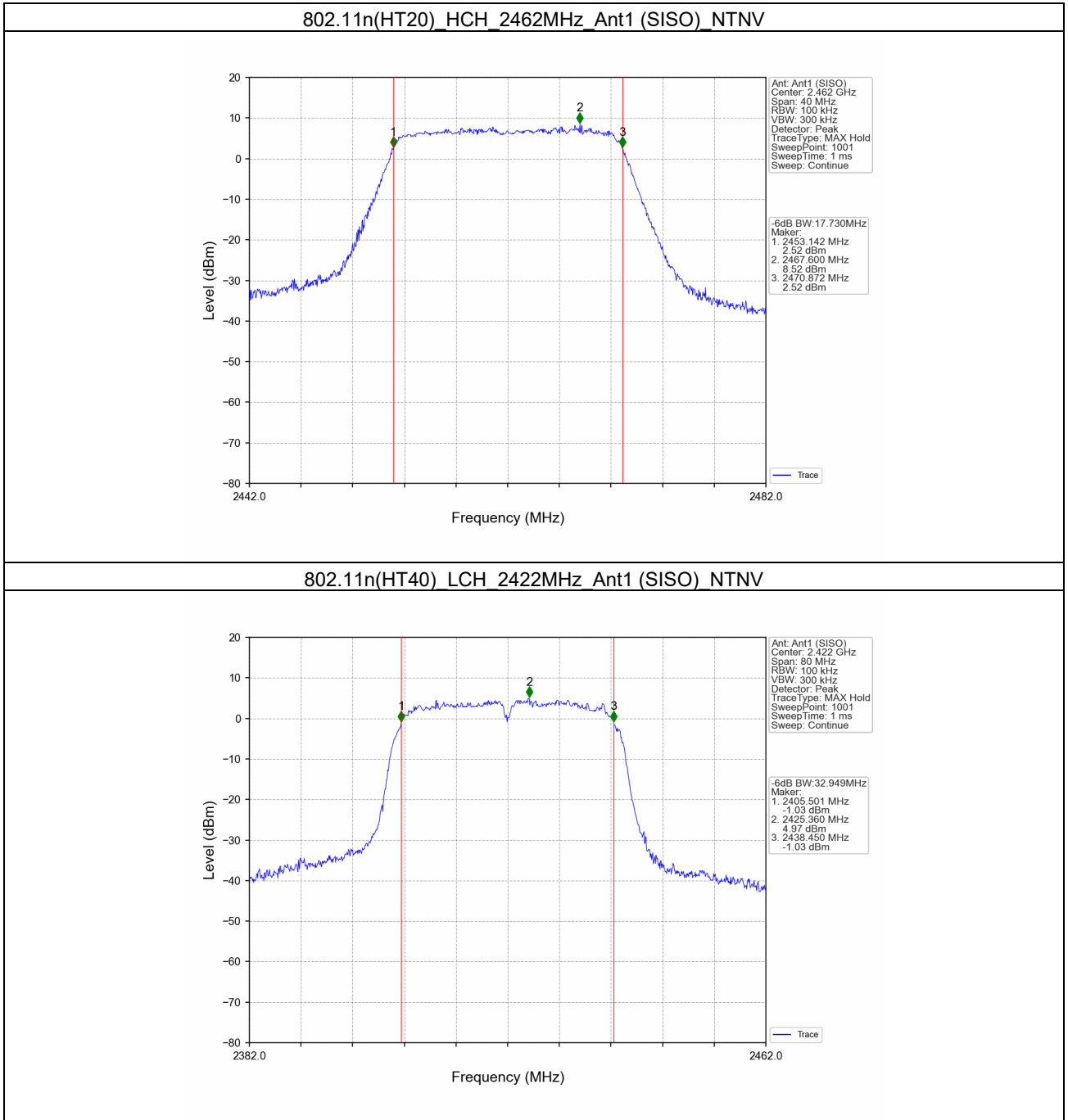
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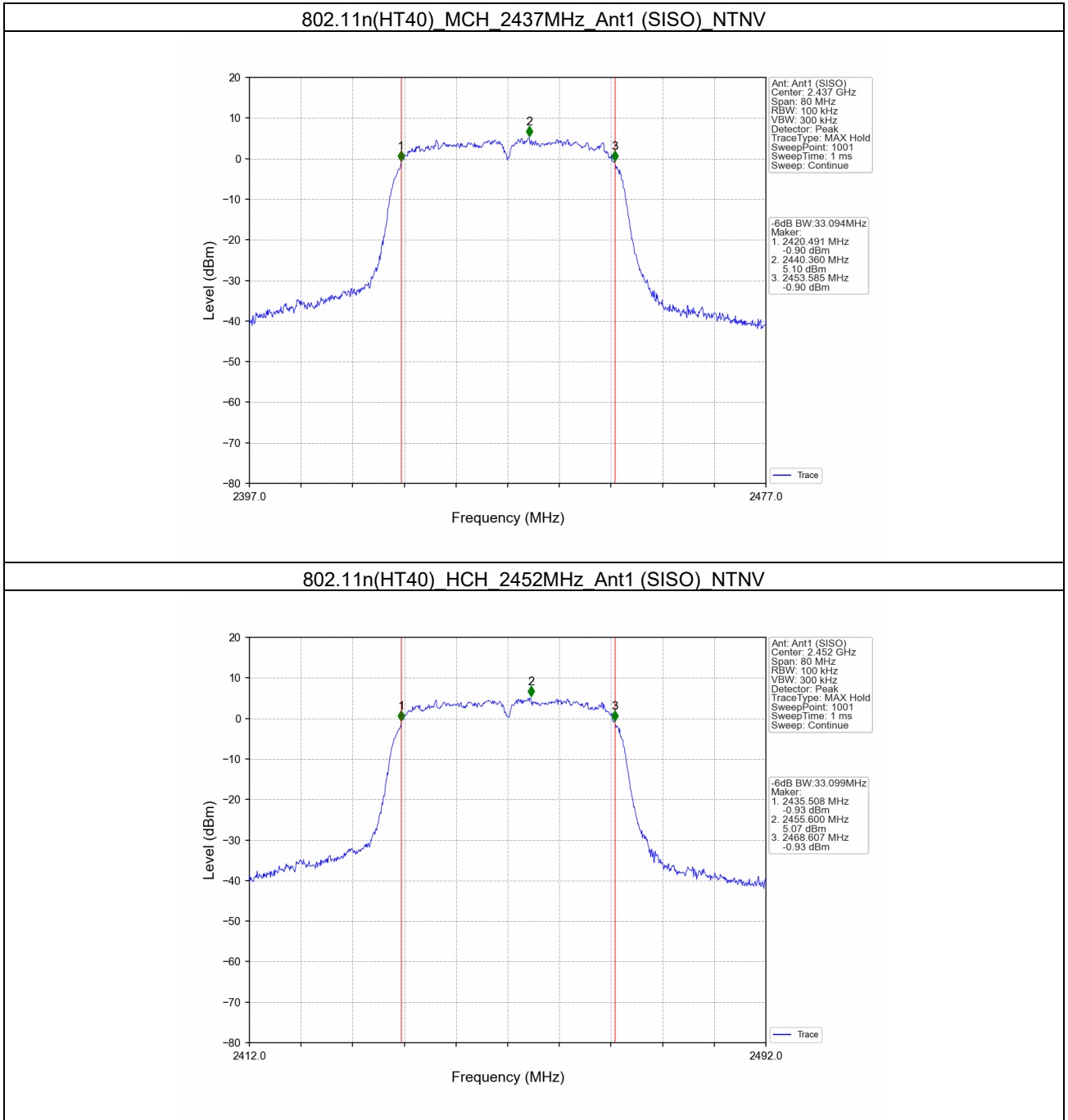
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	3.78	-26.22	Pass
		2437	1	3.78	-26.22	Pass
		2462	1	3.78	-26.22	Pass
802.11g	SISO	2412	1	1.77	-28.23	Pass
		2437	1	1.77	-28.23	Pass
		2462	1	1.77	-28.23	Pass
802.11n (HT20)	SISO	2412	1	1.90	-28.10	Pass
		2437	1	1.90	-28.10	Pass
		2462	1	1.90	-28.10	Pass
802.11n (HT40)	SISO	2422	1	-0.85	-30.85	Pass
		2437	1	-0.85	-30.85	Pass
		2452	1	-0.85	-30.85	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.

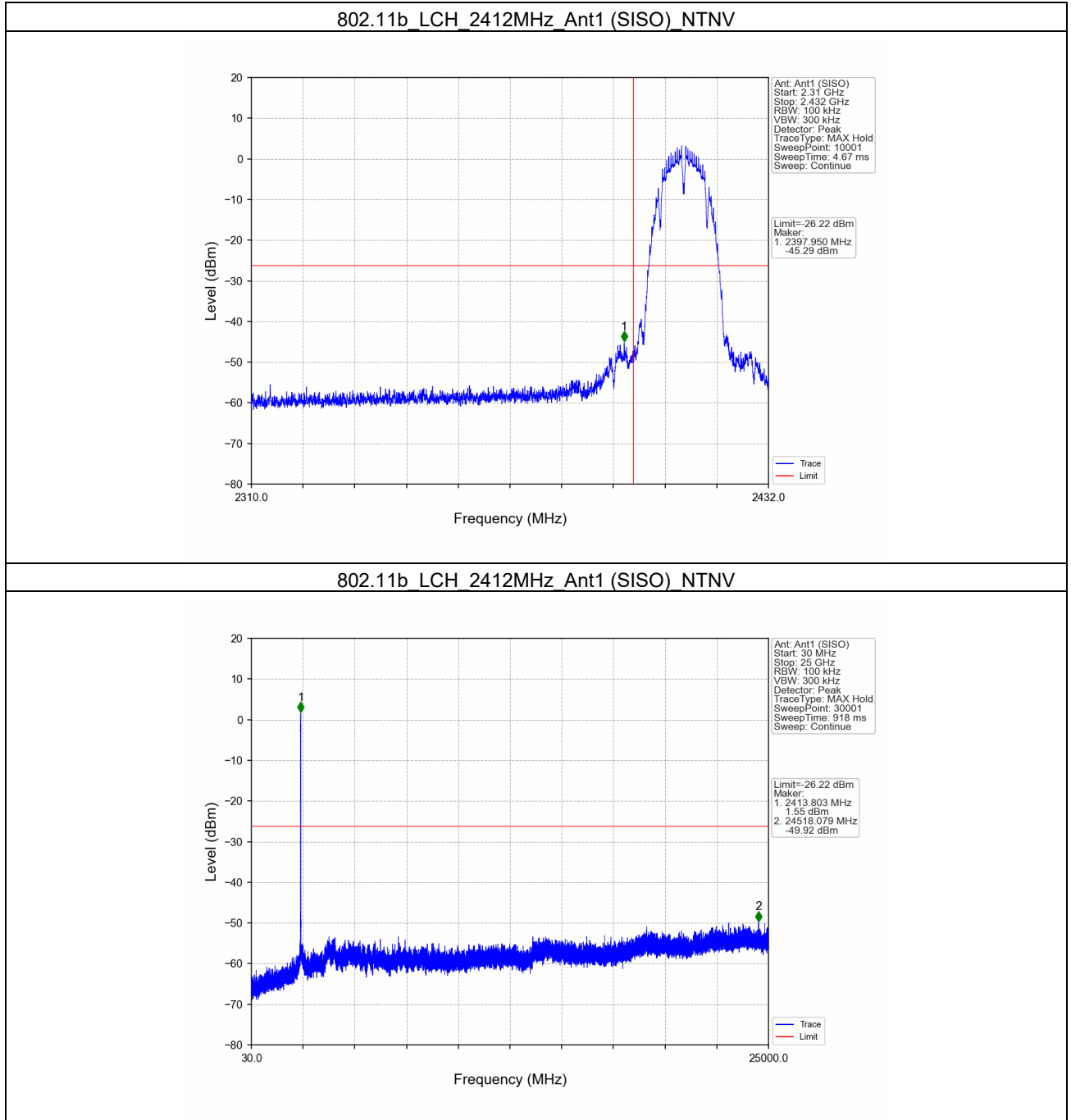


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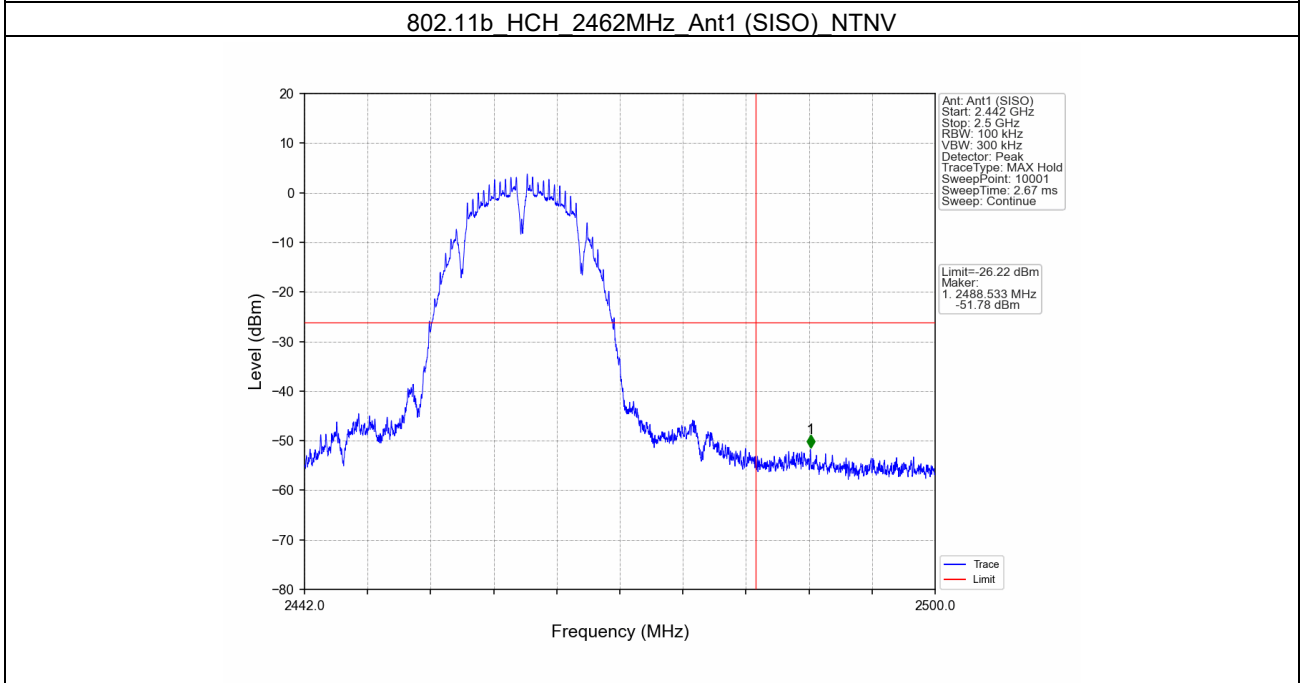
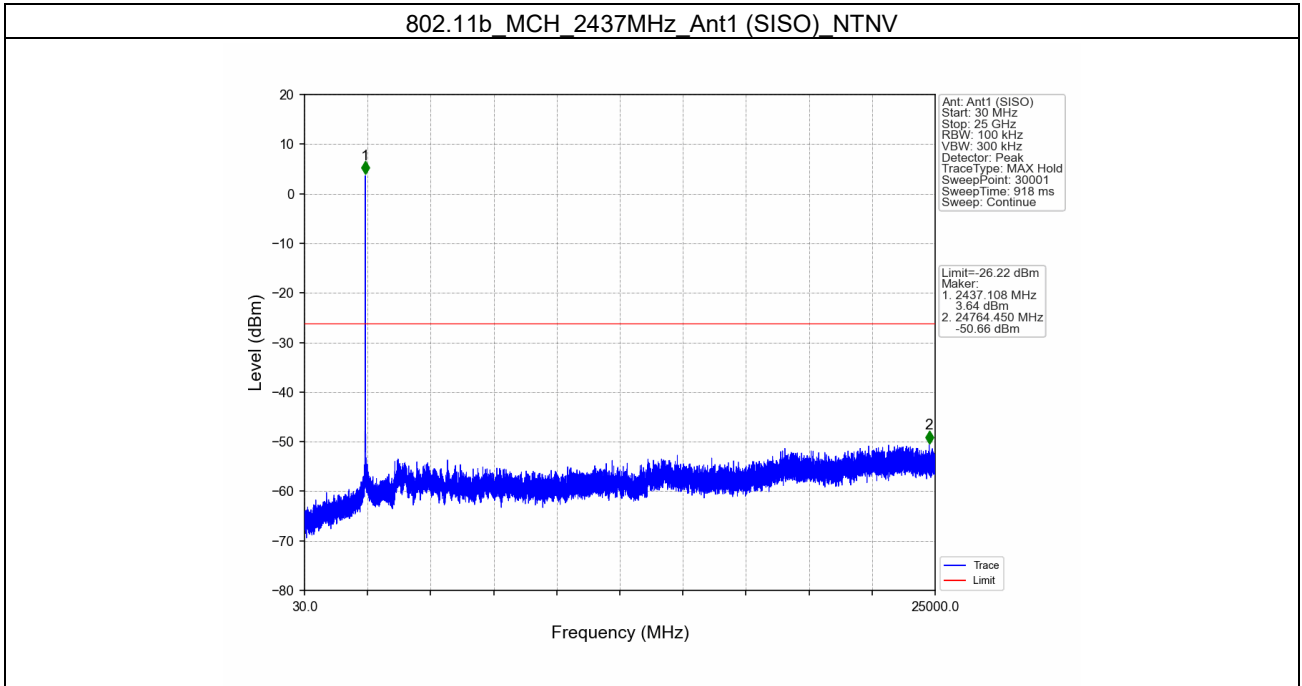
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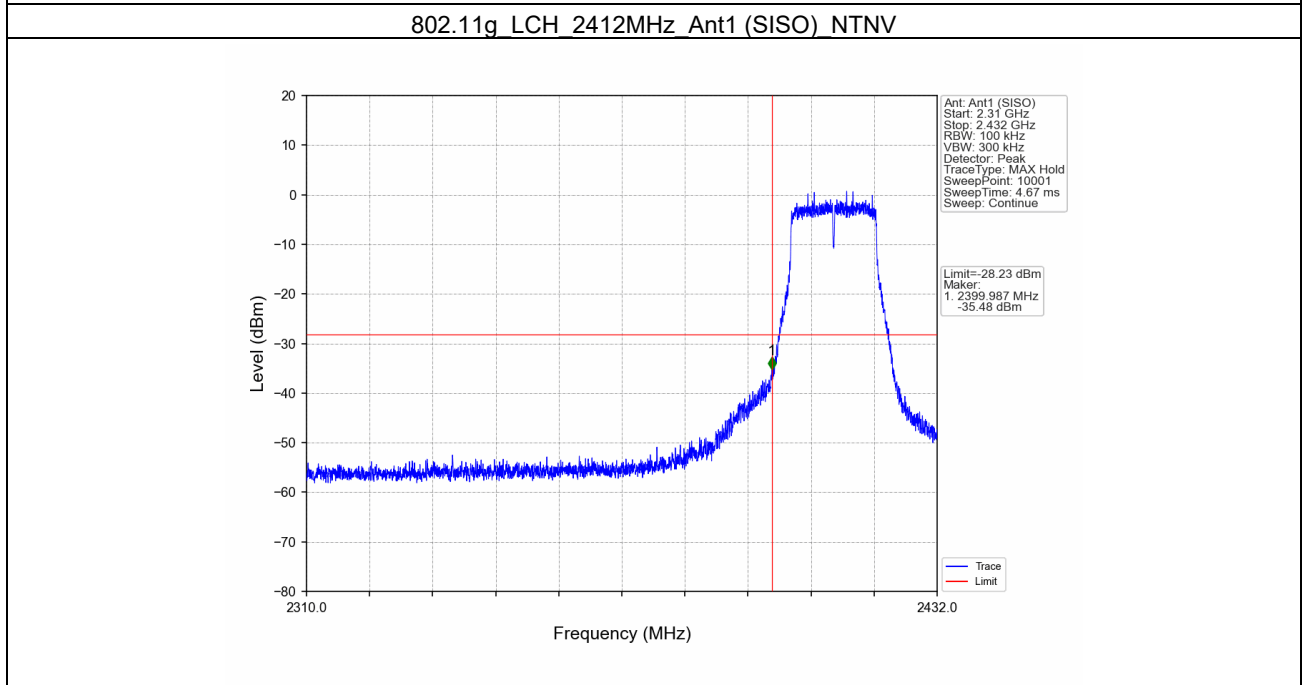
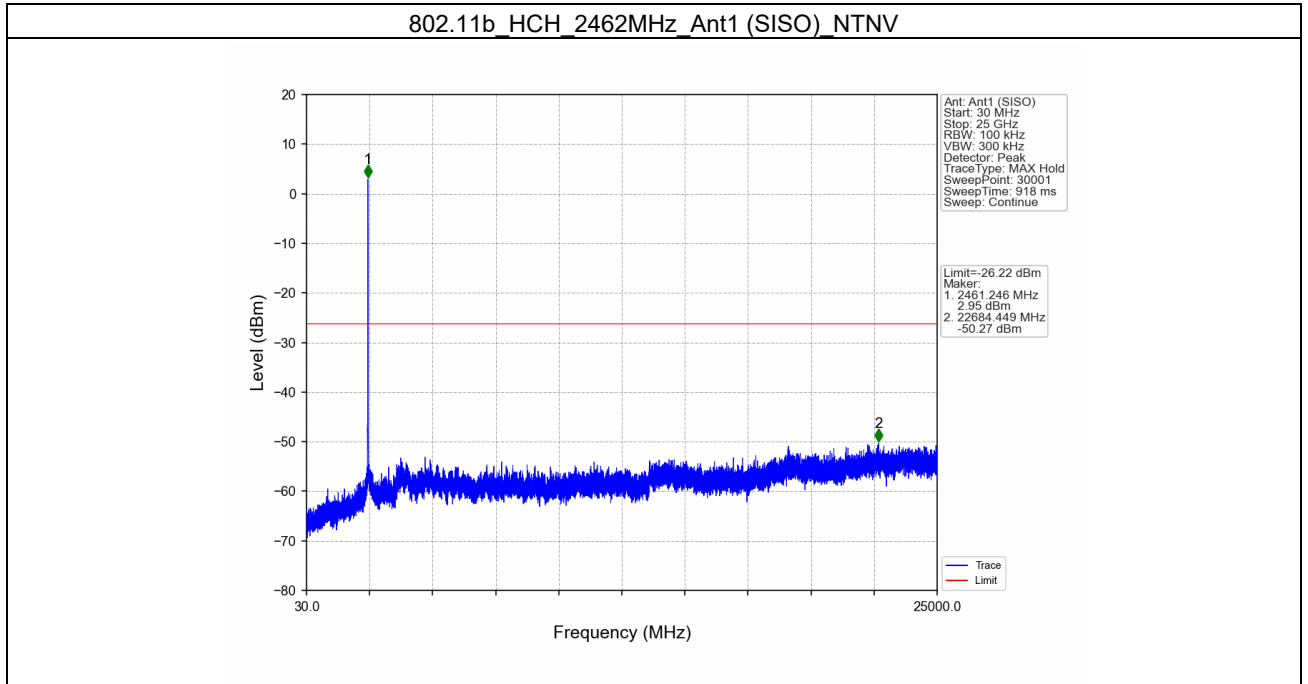
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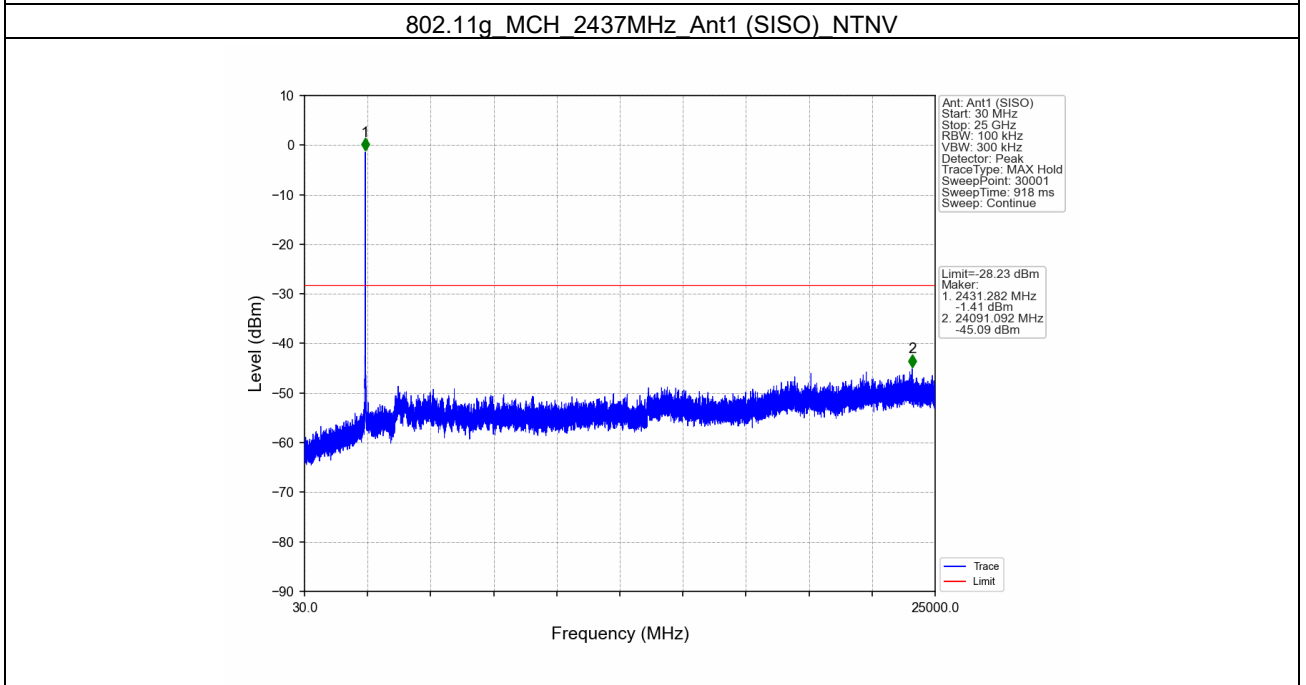
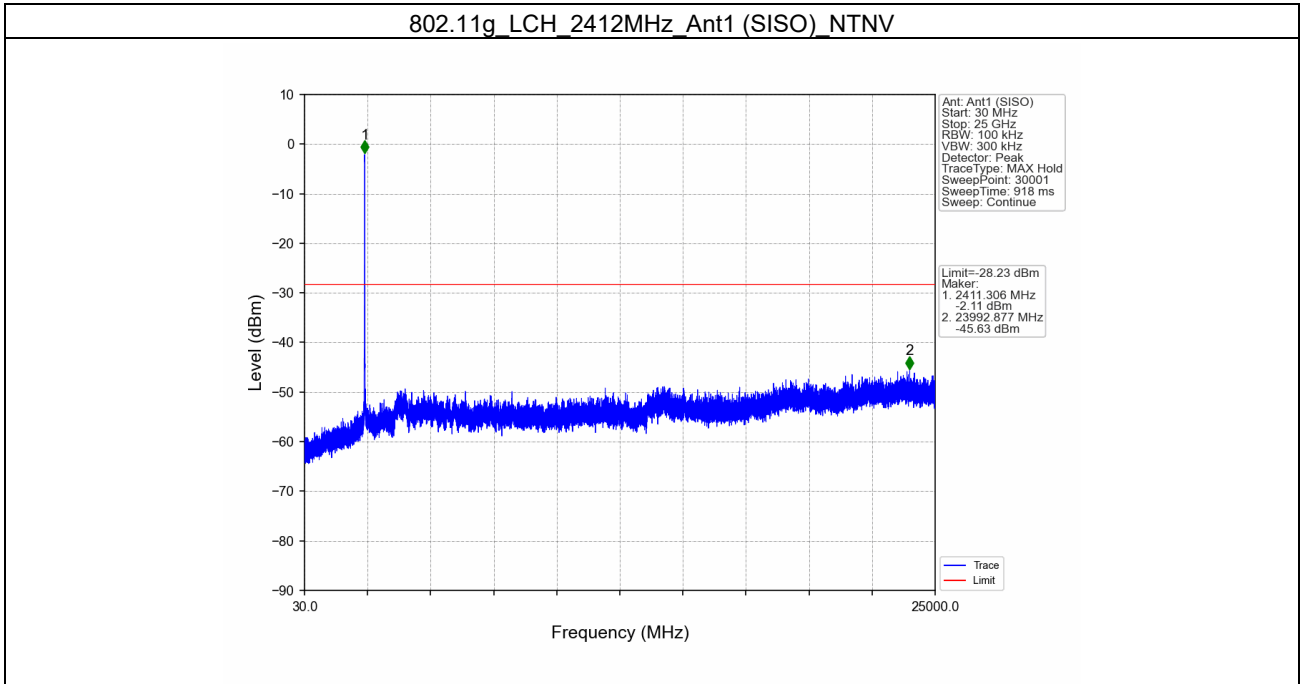
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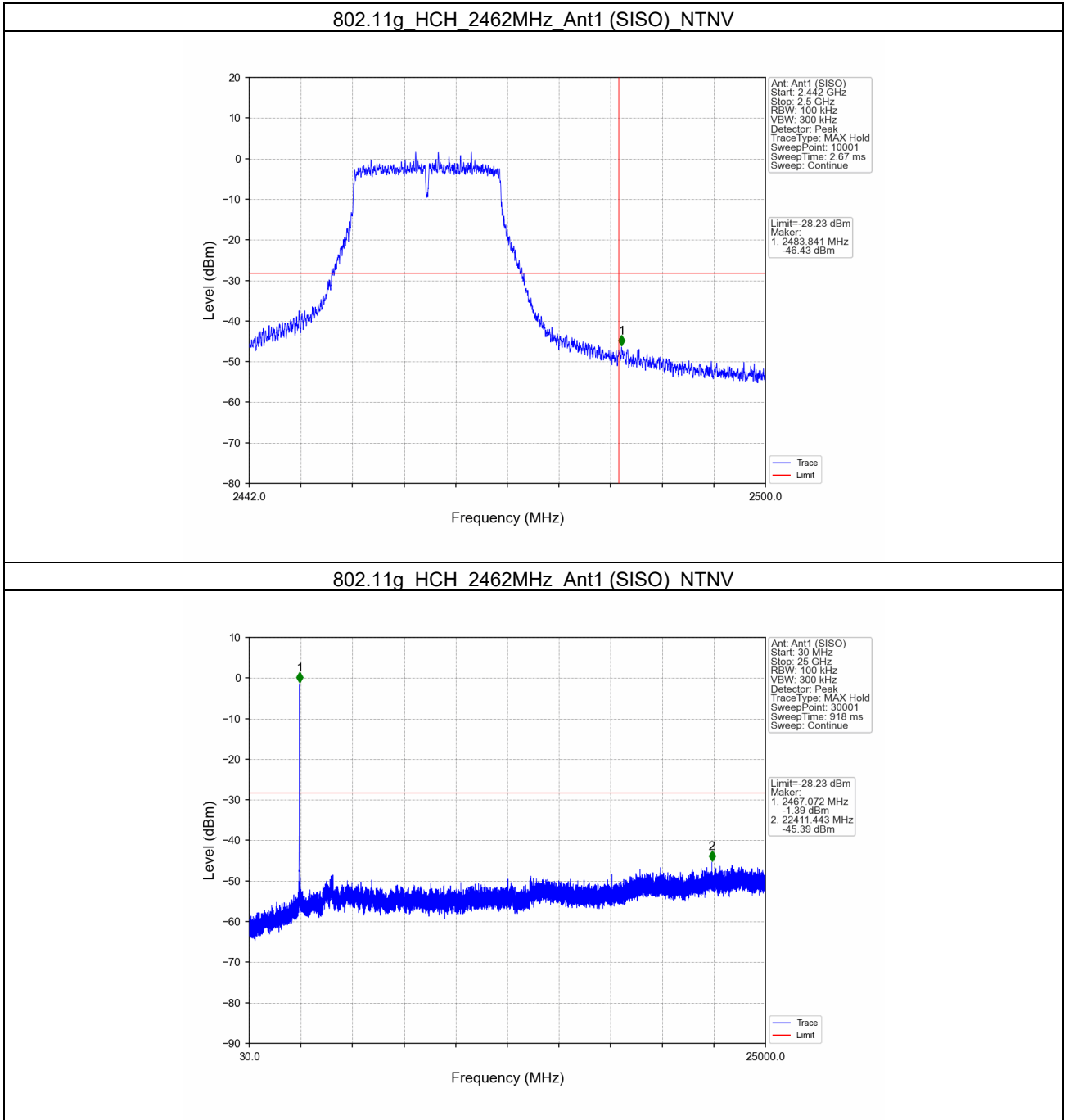


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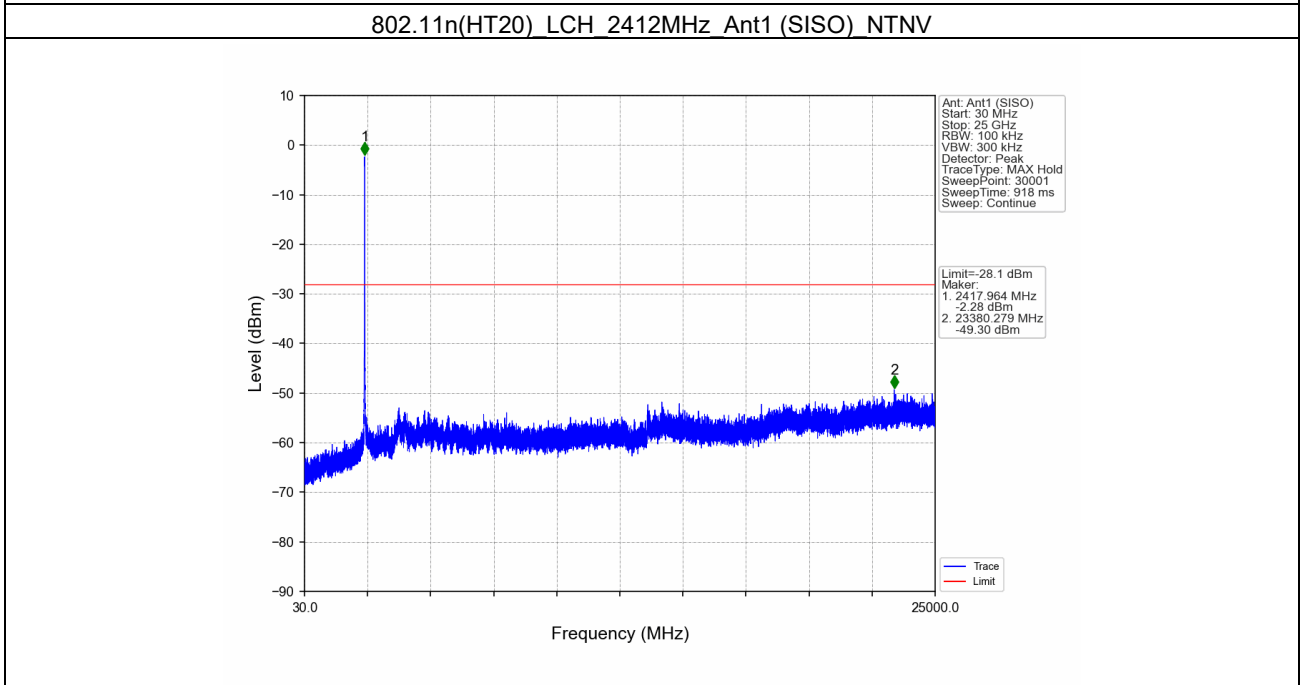
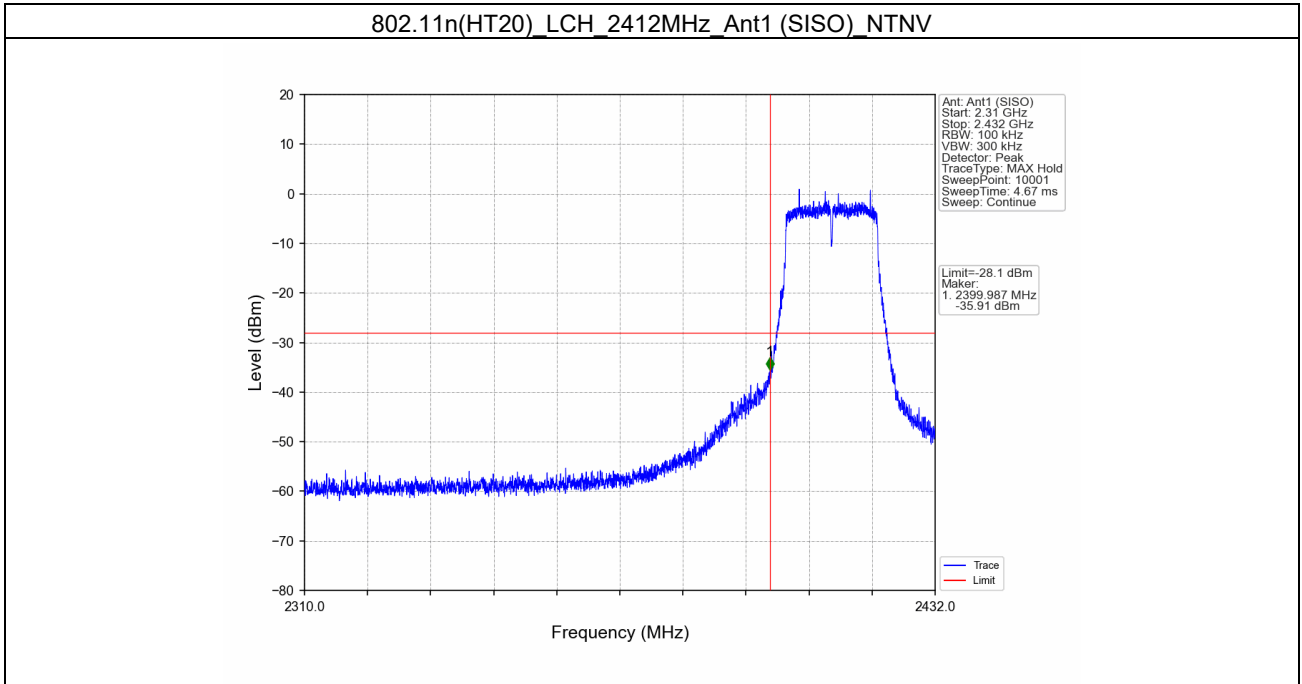
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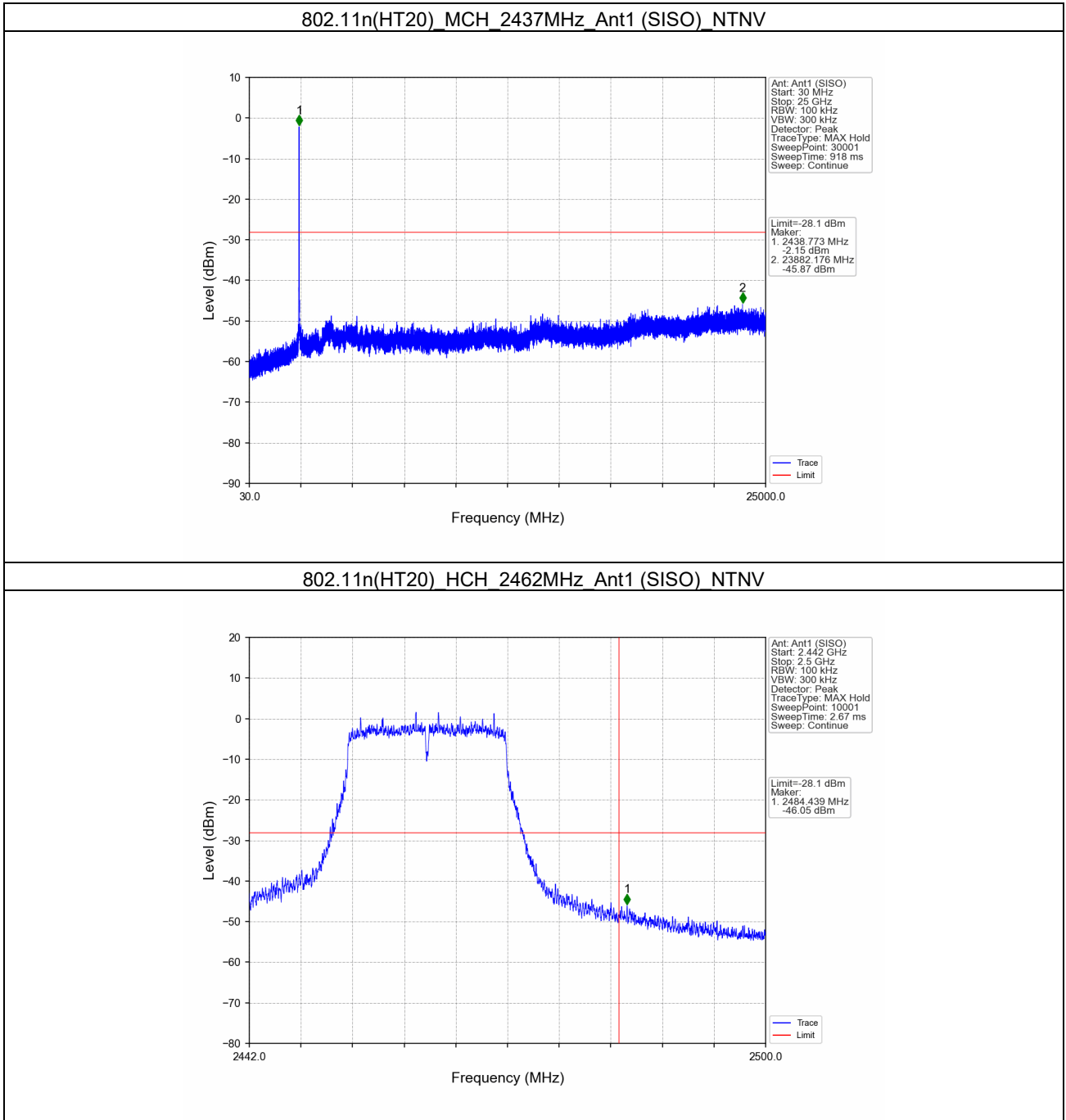
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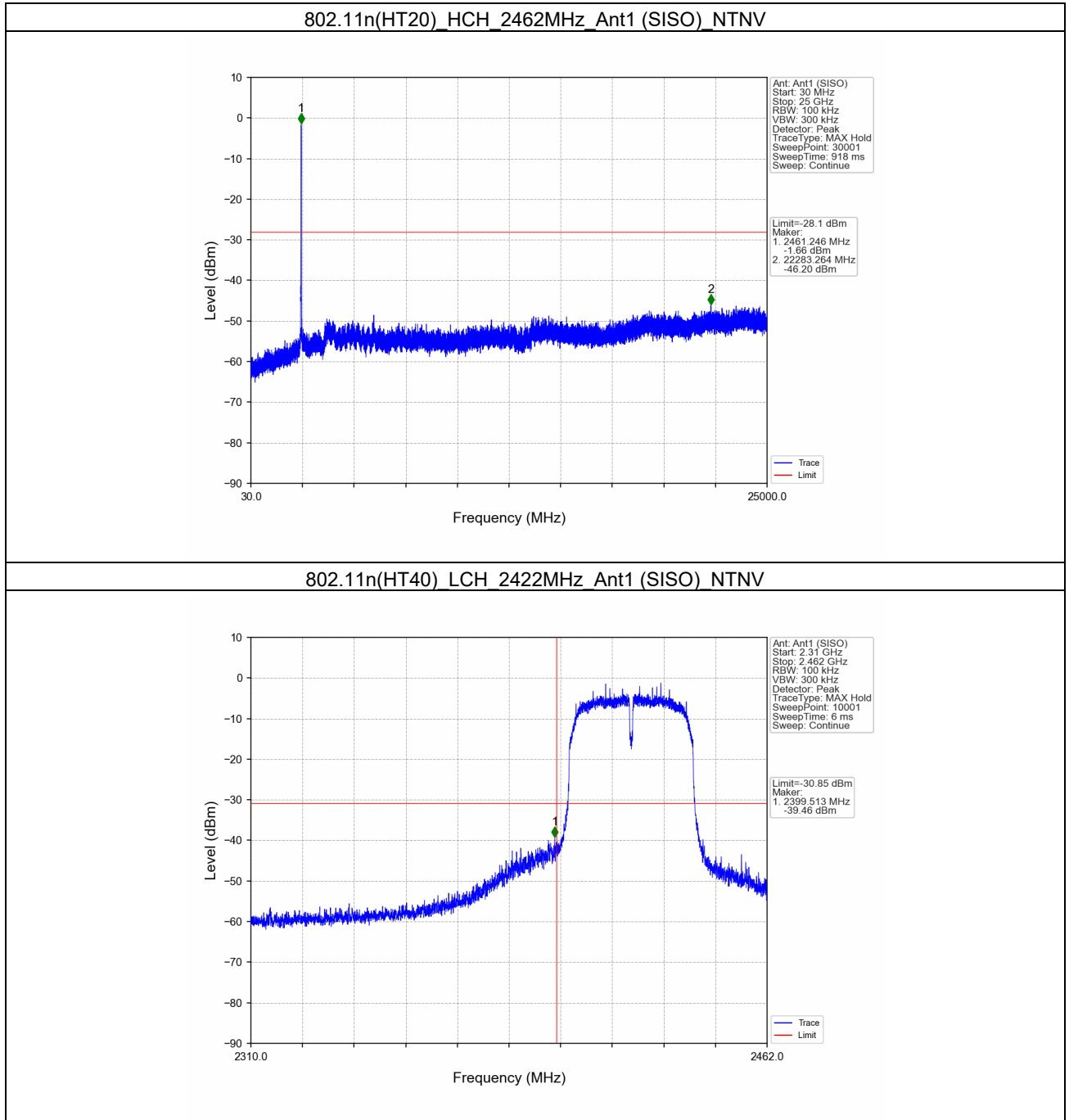
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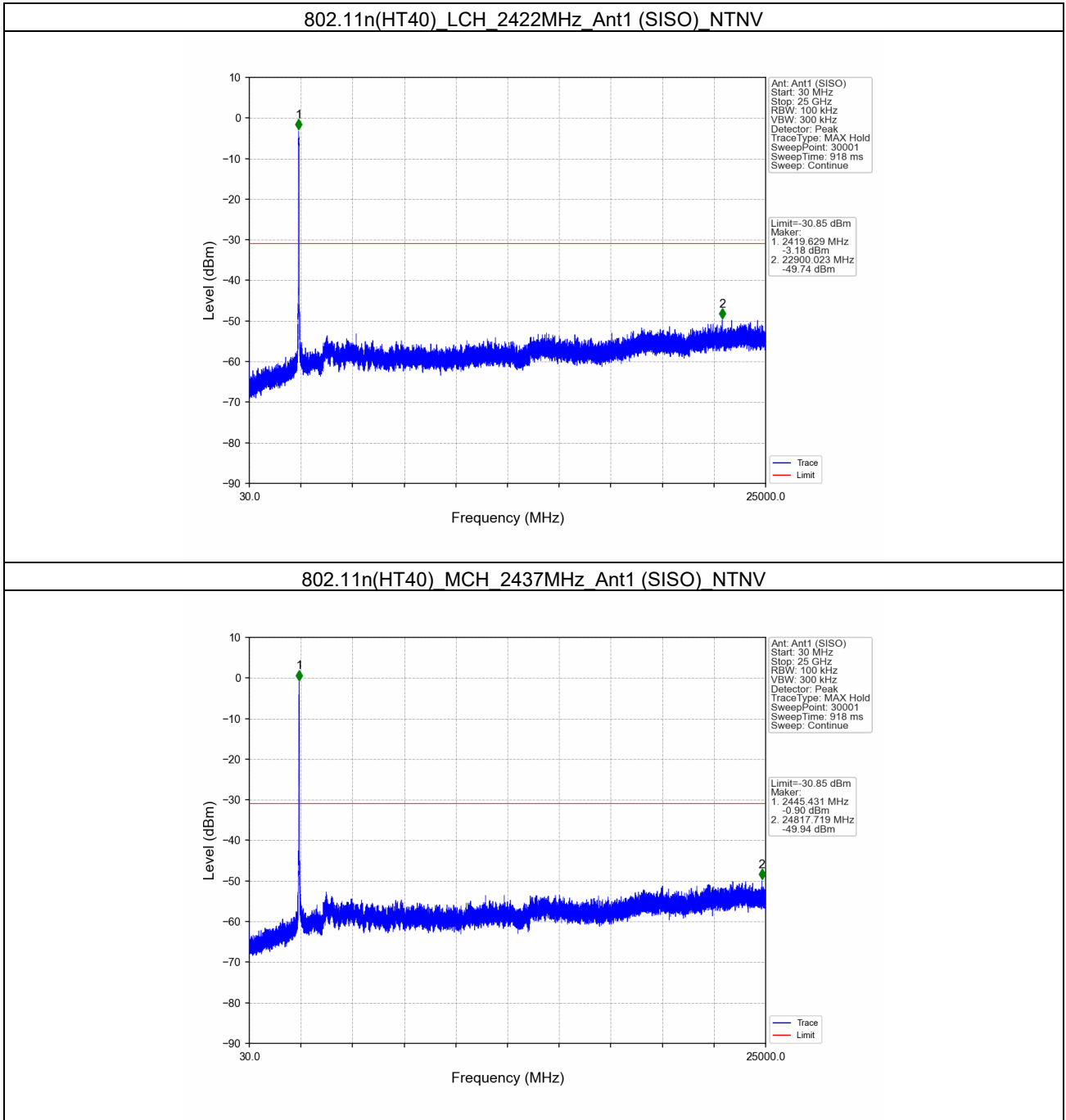
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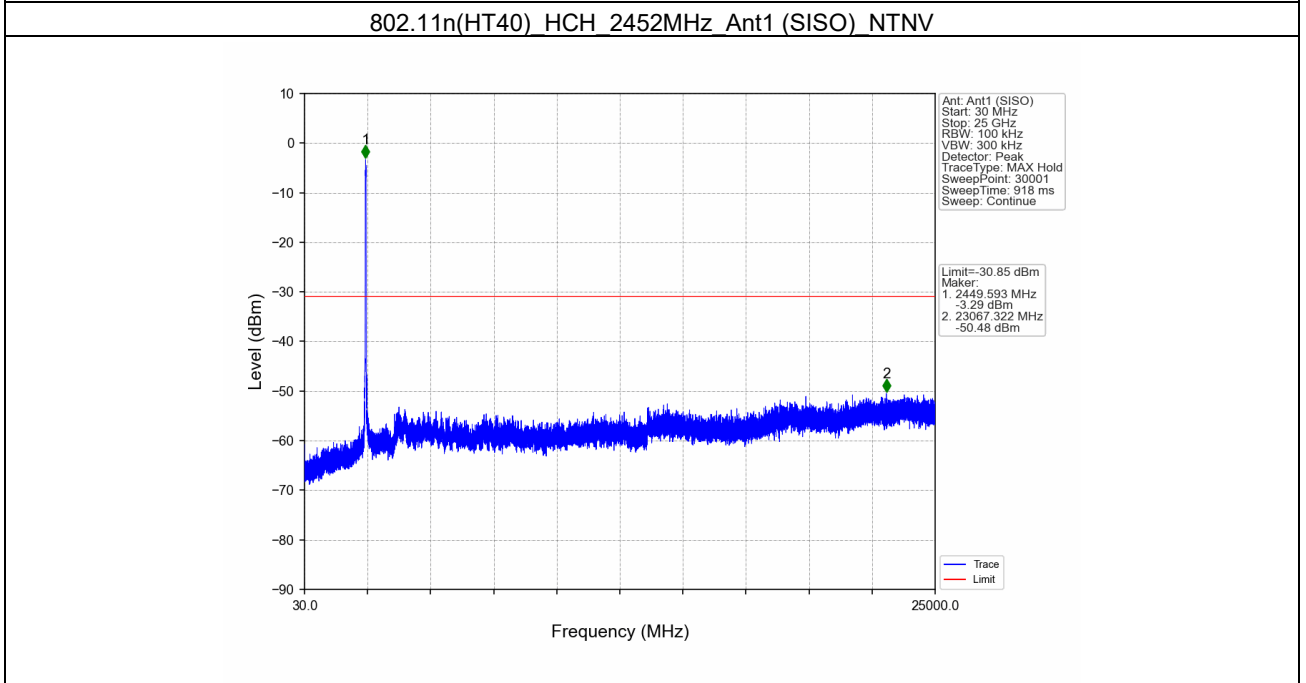
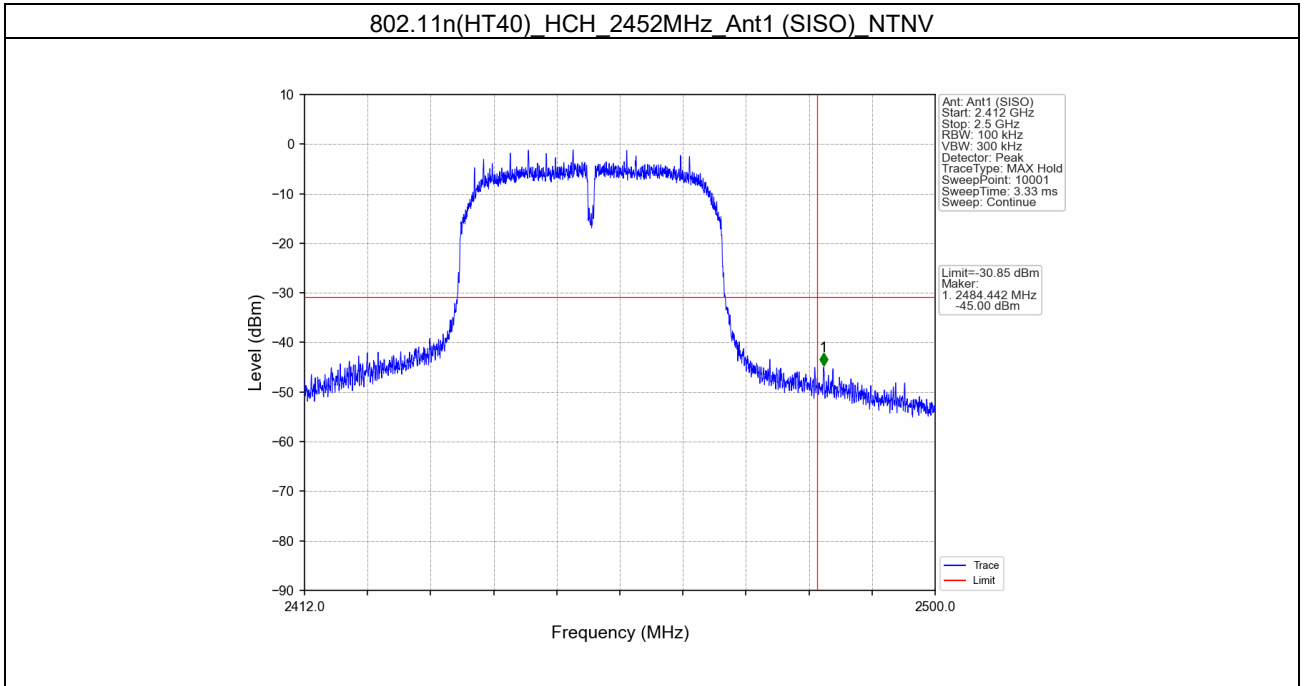


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