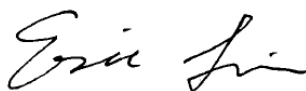


TEST REPORT

Application No.: KSCR2304000703AT
FCC ID: 2AL8S-0235C6TX
Applicant: Zhejiang Uniview Technologies Co., Ltd.
Address of Applicant: No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China
Manufacturer: Zhejiang Uniview Technologies Co., Ltd.
Address of Manufacturer: No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China
Factory: Zhejiang Uniview Systems Technology Co., Ltd.
Address of Factory: No.1277 South Qingfeng South Road, Tongxiang City, Jiaxing City, Zhejiang Province, China
Equipment Under Test (EUT):
EUT Name: Indoor Monitor
Model No.: OEI-371S-H-W, OEI-372S-H-W, OEI-371S-H-W-xxxxxxx-yyy-yyyy-zzz, OEI-372S-H-W-xxxxxxx-yyy-yyyy-zzz, "x","y","z" can be 0-9;A-Z;a-z or blank;"- "may be blank♣
♣ 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: 2023-04-21
Date of Test: 2023-04-25 to 2023-04-28
Date of Issue: 2023-05-06

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

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



Eric Lin
Laboratory Manager



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Revision Record			
Version	Description	Date	Remark
00	Original	2023-05-06	/

Authorized for issue by:			
		Damon Zhou	
		Damon_Zhou/Project Engineer	
		Eric Lin	
		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)	Customer Declaration

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Average Output Power		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, Their circuit principle, components, materials are all the same. Only the model number, appearance and placement of some components are different. the model OEI-371S-H-W has done full test. the model OEI-372S-H-W has done power and radiation tests to verify RF compliance.



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Report No.: KSCR230400070301

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 12V,1A; POE 48V,0.25A
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
Data rate:	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n(HT20)/n(HT40): MCS0~MSC7
Channel Spacing:	5MHz
Antenna Type:	FPC Antenna
Antenna Gain:	3.23dBi(Provided by the manufacturer)

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	Lenovo	/	/
AC Adapter	DVE	/	/
POE Adapter	PowerDsine	/	/



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4.3 Measurement Uncertainty

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

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



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

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

No tests were sub-contracted.

Note:

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

4.5 Test Facility

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

• A2LA

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

• FCC

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

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

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

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals (150kHz-30MHz)						
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
RF Conducted Test						
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	SMBV100B	KSEM032	03/16/2023	03/15/2024
5	Signal Generator	R&S	SMW200A	KSEM020-1	08/22/2022	08/21/2023
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/22/2022	08/21/2023
7	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
8	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	03/16/2023	03/15/2024
9	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/22/2022	08/21/2023
10	Switcher	CCSRF	FY562	KUS2001M001-3	08/22/2022	08/21/2023
11	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
13	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	02/03/2023	02/02/2024
14	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	11/16/2022	11/15/2023
15	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	03/22/2023	03/21/2024
16	Software	BST	TST-PASS	/	N/A	N/A
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	03/16/2023	03/15/2024
3	Signal Generator	Agilent	E8257C	KS301066	08/22/2022	08/21/2023
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	03/18/2023	03/17/2025
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	02/21/2023	02/20/2024
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	02/26/2023	02/25/2024
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	01/21/2023	01/20/2024



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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	03/22/2023	03/21/2024
14	Software	Faratronic	EZ_EMC-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 is FPC Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.23 dBi.

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: 23.9 °C

Humidity: 48.4 % 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 (OEI-371S-H-W) 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.

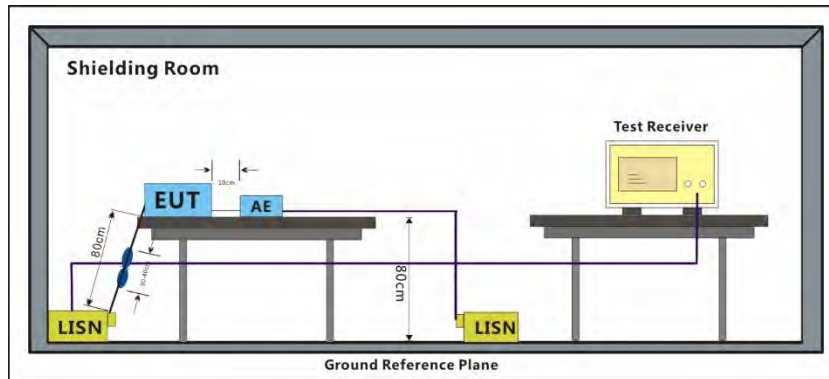


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7.1.3 Test Setup Diagram



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

Remark 2: This test item be test using two power supply (AC 120V for adapter & AC 120V for POE) and only record the worst data of DC 12V by adapter in the report.

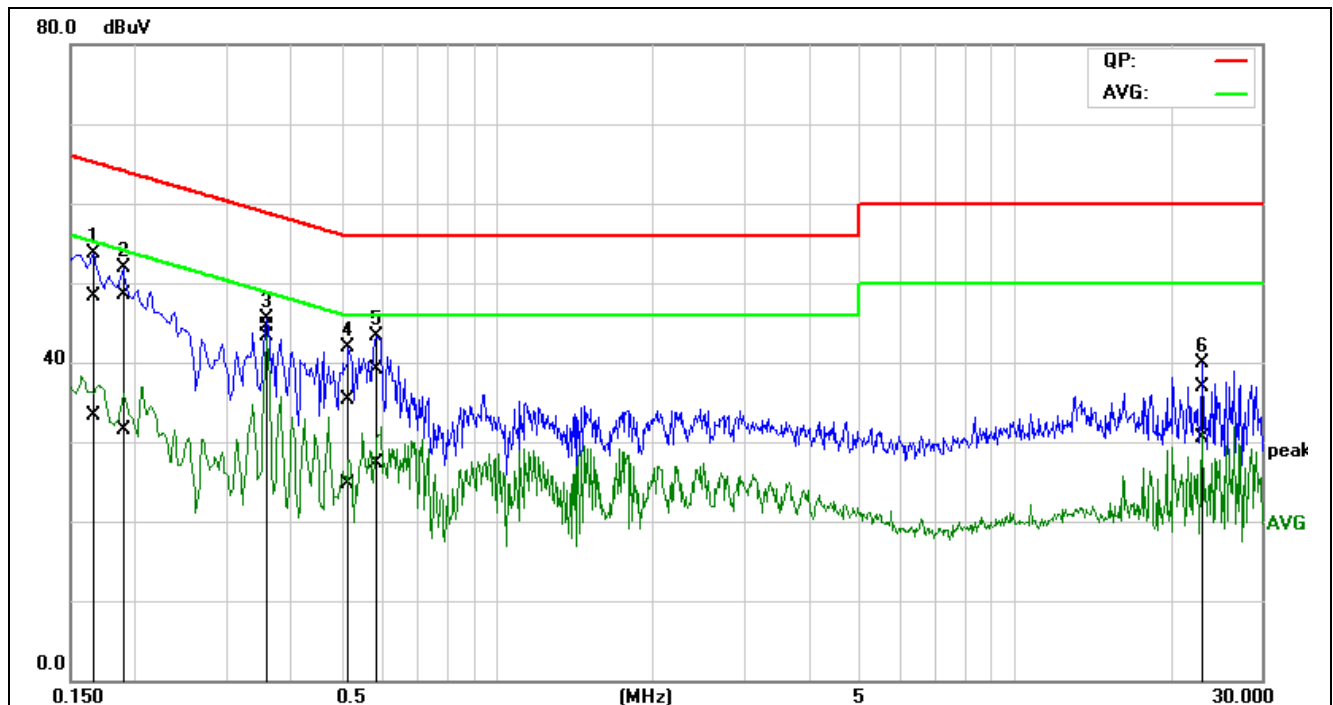


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Test Mode: 00; Line: Live line



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	0.1670	28.17	13.19	20.14	48.31	33.33	65.11	55.11	-16.80	-21.78	Pass
2	0.1890	28.50	11.35	20.06	48.56	31.41	64.08	54.08	-15.52	-22.67	Pass
3*	0.3596	24.46	23.32	20.02	44.48	43.34	58.74	48.74	-14.26	-5.40	Pass
4	0.5156	15.26	4.74	20.05	35.31	24.79	56.00	46.00	-20.69	-21.21	Pass
5	0.5856	19.12	7.41	19.99	39.11	27.40	56.00	46.00	-16.89	-18.60	Pass
6	23.1298	16.96	10.49	19.99	36.95	30.48	60.00	50.00	-23.05	-19.52	Pass

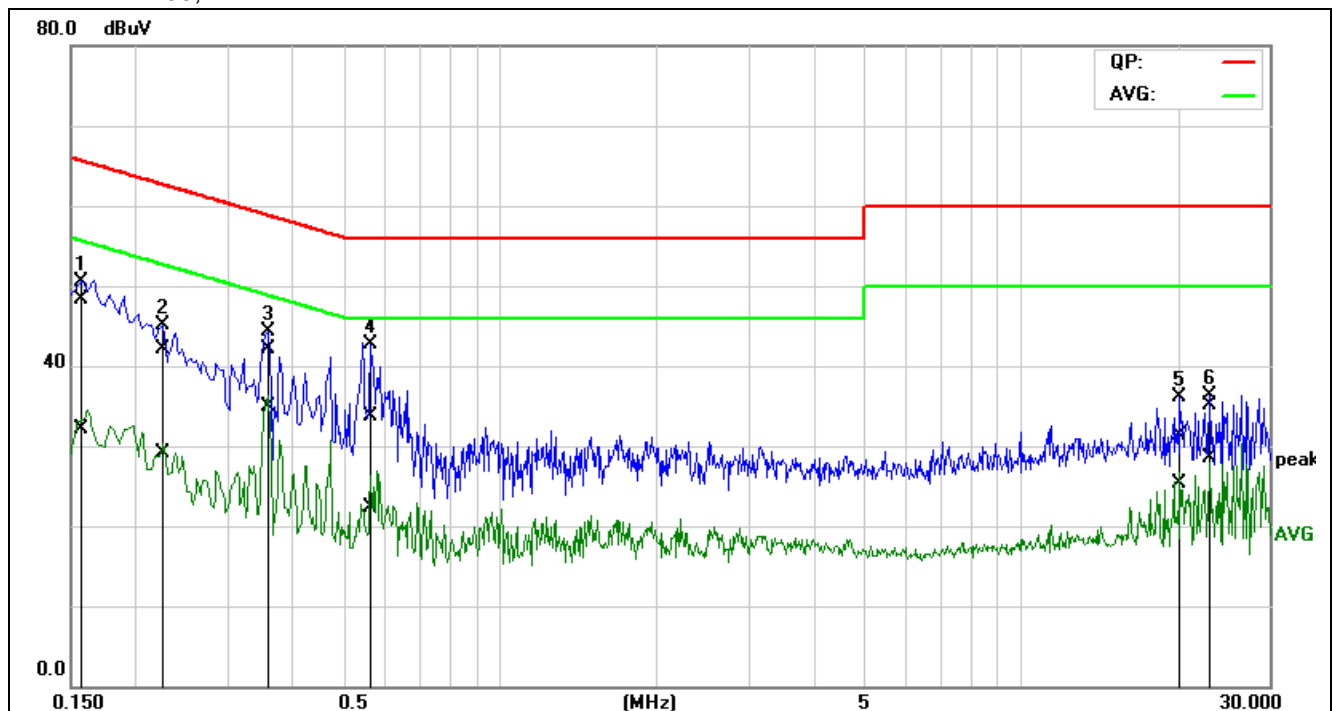


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Test Mode: 00; Line: Neutral Line



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	0.1550	28.13	11.83	20.25	48.38	32.08	65.73	55.73	-17.35	-23.65	Pass
2	0.2256	22.02	9.04	20.15	42.17	29.19	62.61	52.61	-20.44	-23.42	Pass
3*	0.3588	21.94	14.83	20.11	42.05	34.94	58.76	48.76	-16.71	-13.82	Pass
4	0.5638	13.74	2.39	20.01	33.75	22.40	56.00	46.00	-22.25	-23.60	Pass
5	20.2566	11.38	5.29	19.93	31.31	25.22	60.00	50.00	-28.69	-24.78	Pass
6	23.1299	15.07	8.44	19.98	35.05	28.42	60.00	50.00	-24.95	-21.58	Pass



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7.2 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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C

Humidity: 48.4 % 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 (OEI-371S-H-W) 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.
Final test	01	TX mode_Keep the EUT (OEI-372S-H-W) 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.

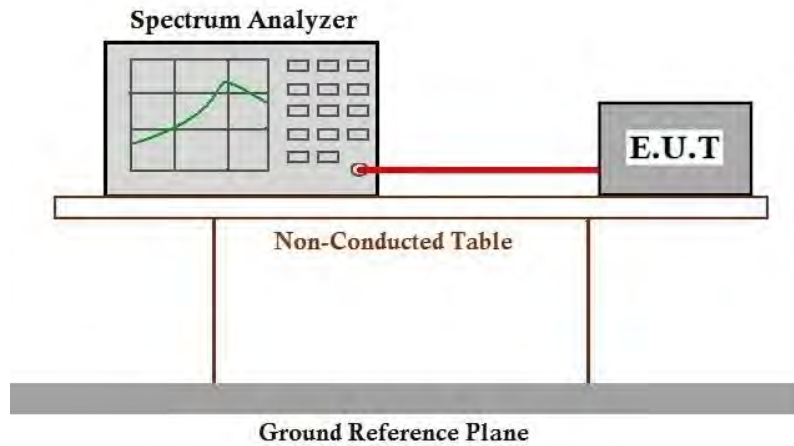


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7.2.3 Test Setup Diagram



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: ≥ 500 kHz

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C

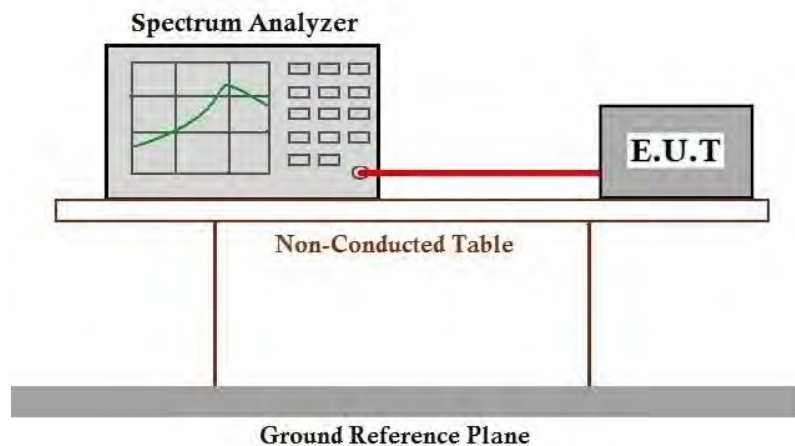
Humidity: 48.4 % RH

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 (OEI-371S-H-W) 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: 23.9 °C

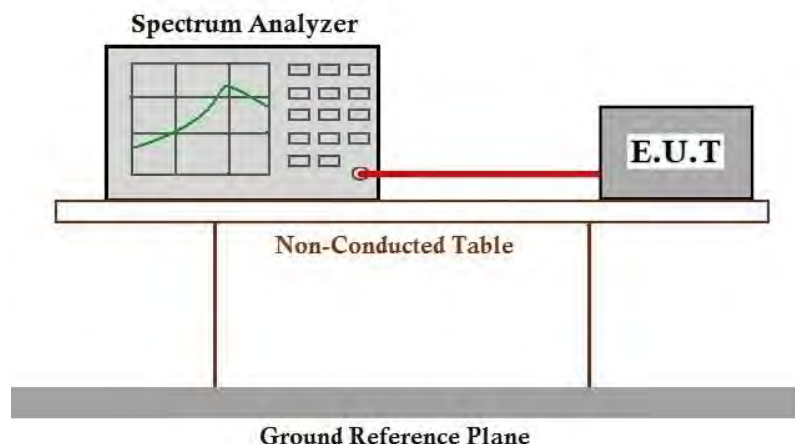
Humidity: 48.4 % RH

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 (OEI-371S-H-W) 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: 23.9 °C Humidity: 48.3 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

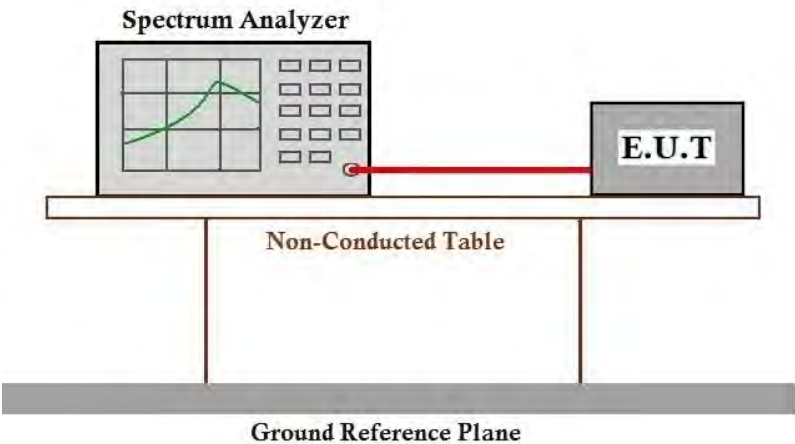
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT (OEI-371S-H-W) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the 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

Please Refer to Appendix for Details



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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: 23.9 °C Humidity: 48.3 % 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 (OEI-371S-H-W) 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.

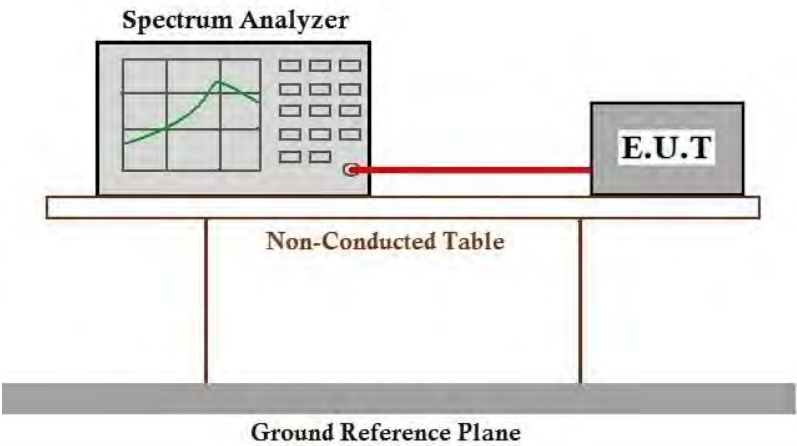


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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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

Measurement Distance: 3m

Limit:

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

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: 25.1 °C

Humidity: 44.2 % 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 (OEI-371S-H-W) 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.
Final test	01	TX mode_Keep the EUT (OEI-372S-H-W) 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.

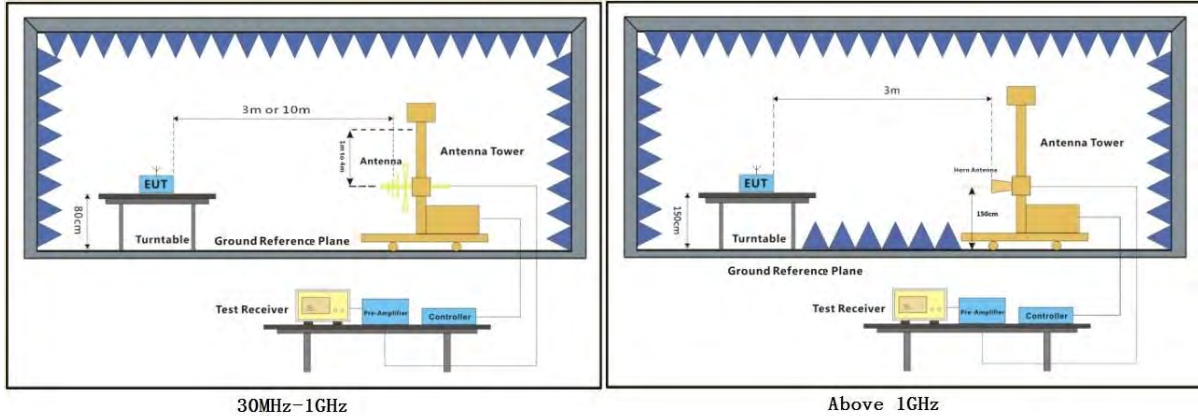


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7.7.3 Test Setup Diagram



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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 be test using two power supply (AC 120V for adapter & AC 120V for POE) and only record the worst data of DC 12V by adapter in the report.

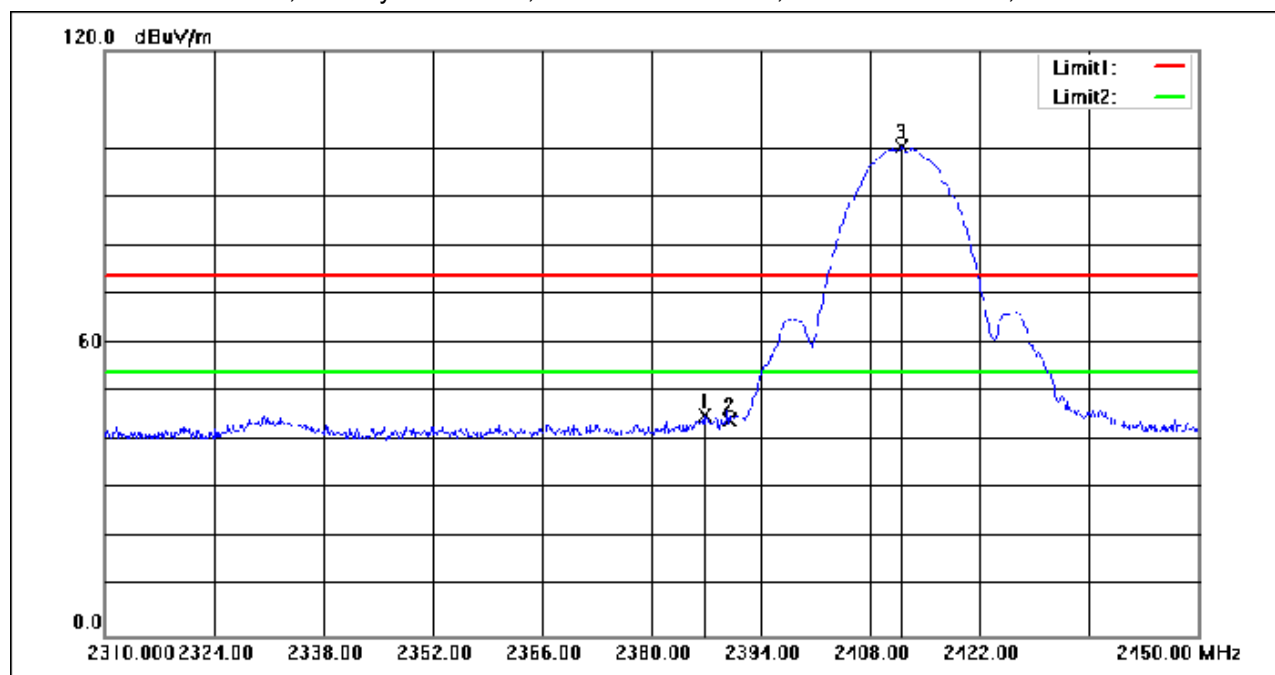


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.720	64.54	-19.47	45.07	74.00	-28.93	peak
2	2390.000	63.67	-19.45	44.22	74.00	-29.78	peak
3	2412.060	119.52	-19.26	100.26	74.00	26.26	peak



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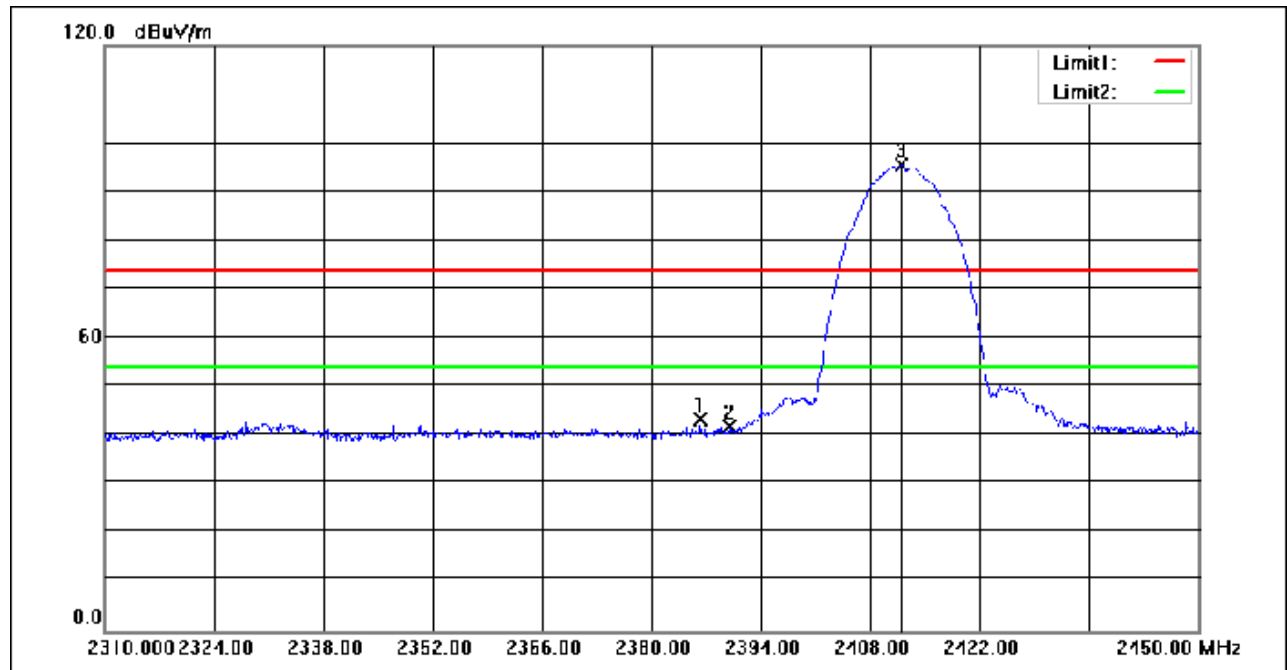
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11b; Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.160	62.84	-19.47	43.37	74.00	-30.63	peak
2	2390.000	61.18	-19.45	41.73	74.00	-32.27	peak
3	2412.060	114.91	-19.26	95.65	74.00	21.65	peak



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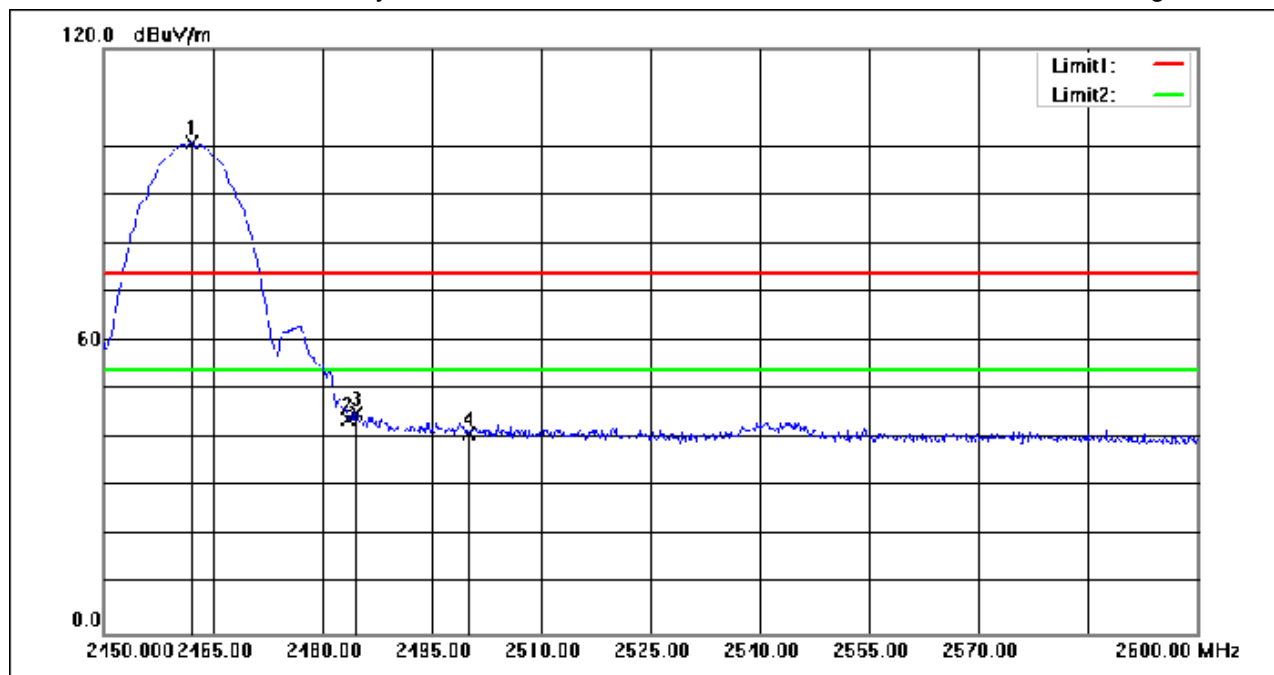
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.000	119.54	-18.85	100.69	74.00	26.69	peak
2	2483.500	63.01	-18.92	44.09	74.00	-29.91	peak
3	2484.650	64.22	-18.93	45.29	74.00	-28.71	peak
4	2500.000	59.82	-18.98	40.84	74.00	-33.16	peak



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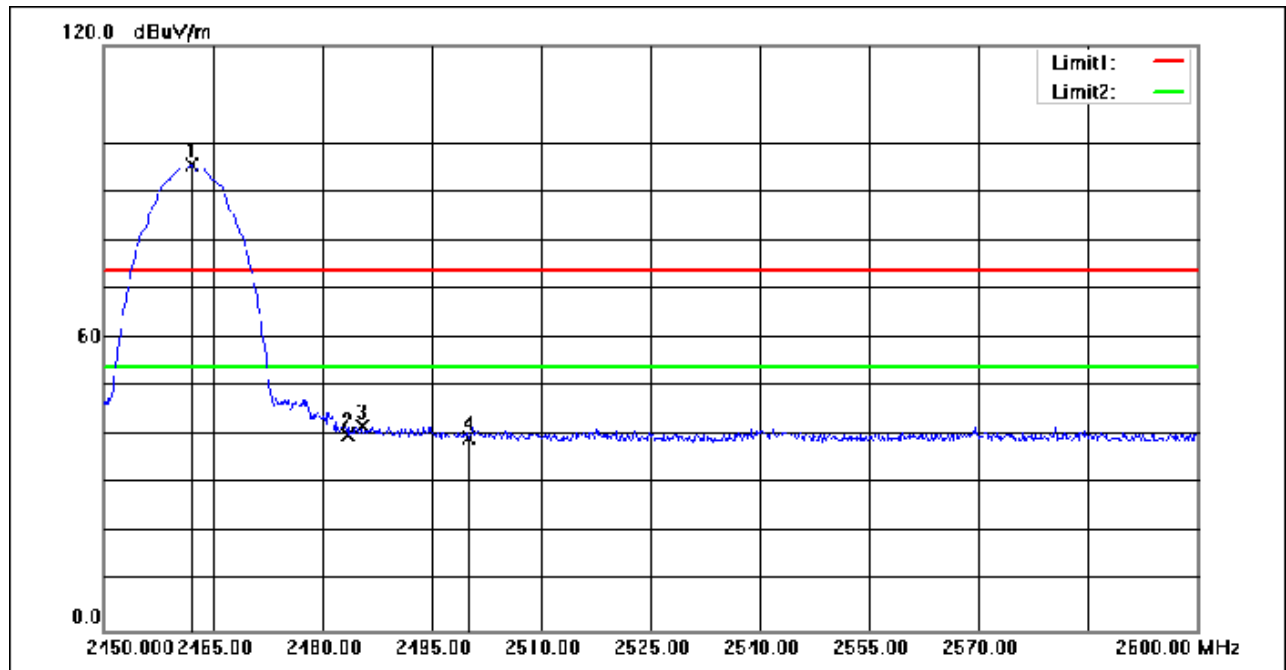
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11b; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.150	114.32	-18.85	95.47	74.00	21.47	peak
2	2483.500	59.02	-18.92	40.10	74.00	-33.90	peak
3	2485.400	60.92	-18.93	41.99	74.00	-32.01	peak
4	2500.000	58.35	-18.98	39.37	74.00	-34.63	peak



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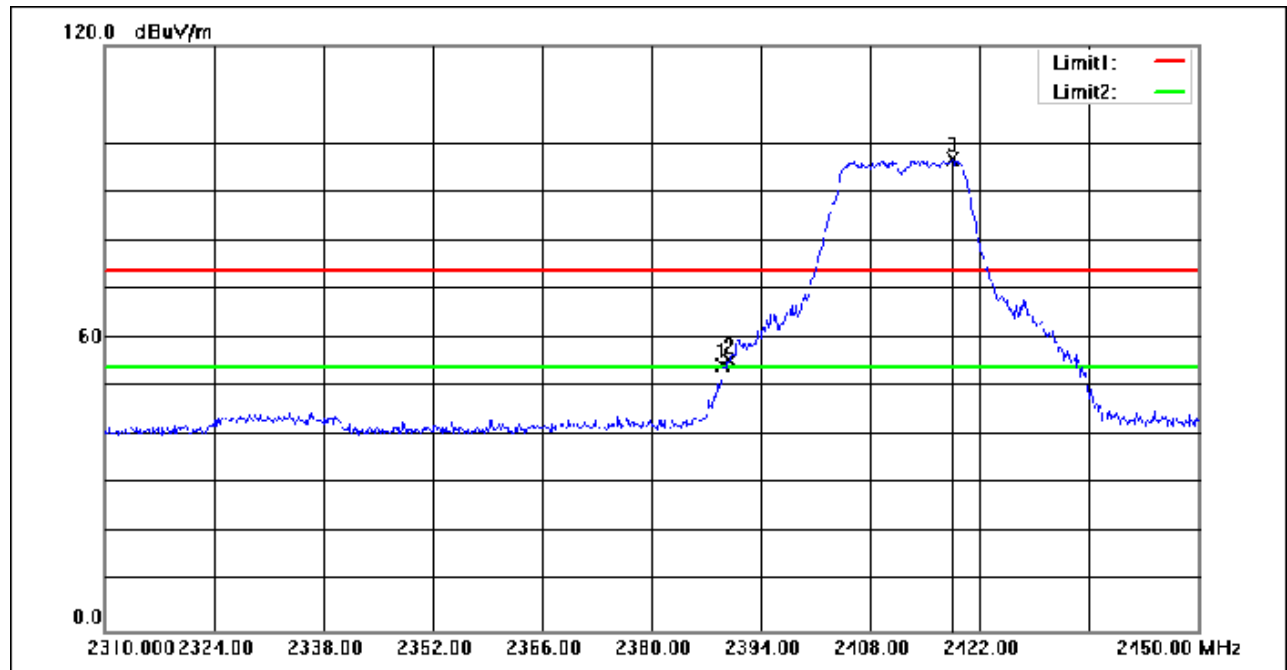
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11g; Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.100	73.95	-19.45	54.50	74.00	-19.50	peak
2	2390.000	74.83	-19.45	55.38	74.00	-18.62	peak
3	2418.500	115.84	-19.18	96.66	74.00	22.66	peak



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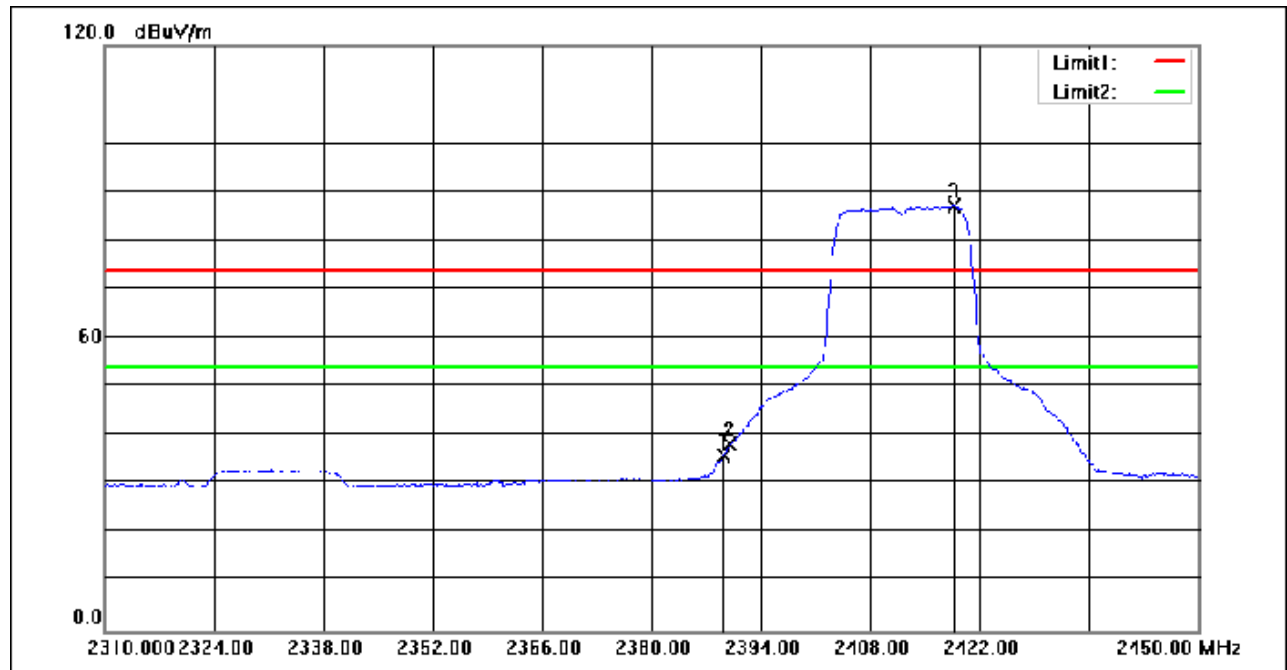
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

Page: 32 of 177

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	2389.240	55.43	-19.45	35.98	54.00	-18.02	AVG
2	2390.000	57.60	-19.45	38.15	54.00	-15.85	AVG
3	2418.780	106.29	-19.17	87.12	54.00	33.12	AVG



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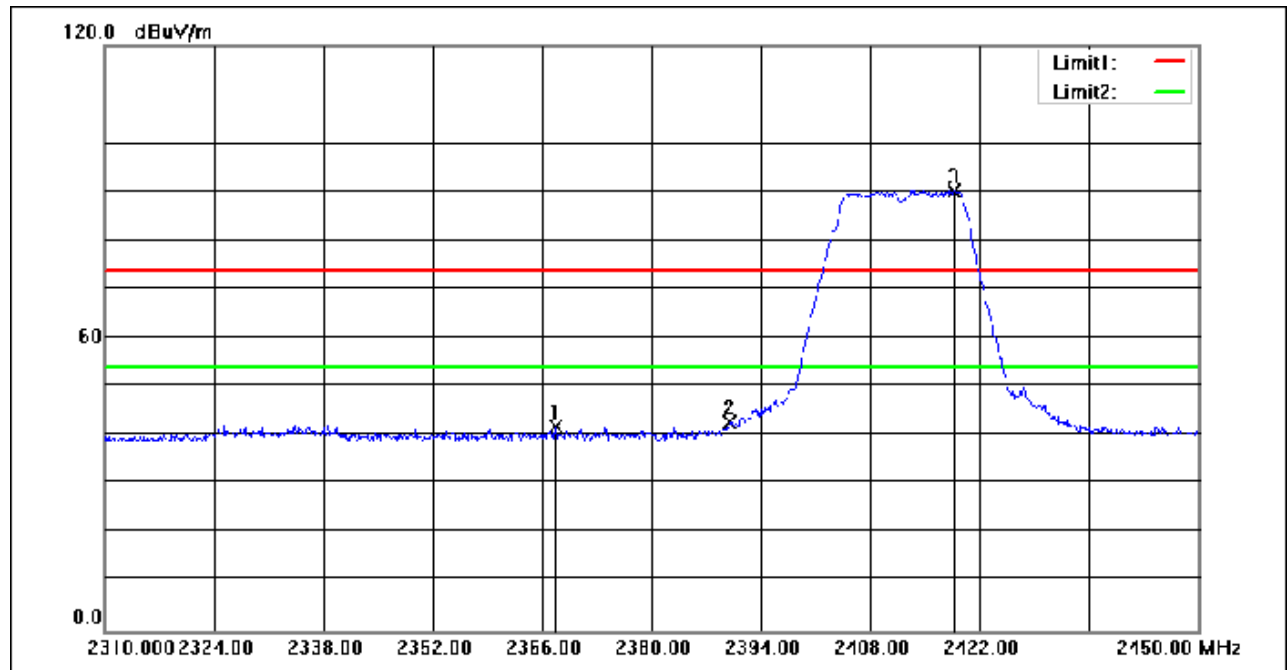
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	2367.680	61.40	-19.56	41.84	74.00	-32.16	peak
2	2390.000	62.27	-19.45	42.82	74.00	-31.18	peak
3	2418.640	109.44	-19.17	90.27	74.00	16.27	peak



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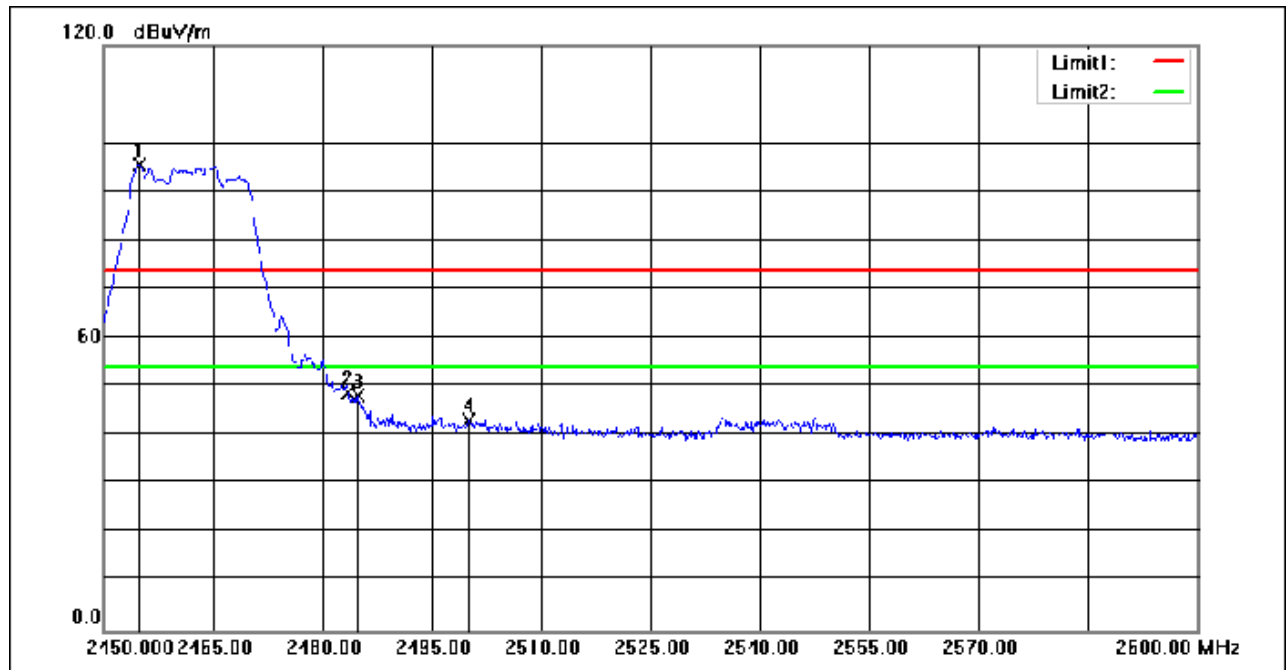
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

Page: 34 of 177

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	2454.800	114.41	-18.82	95.59	74.00	21.59	peak
2	2483.500	67.64	-18.92	48.72	74.00	-25.28	peak
3	2484.800	66.94	-18.93	48.01	74.00	-25.99	peak
4	2500.000	62.15	-18.98	43.17	74.00	-30.83	peak



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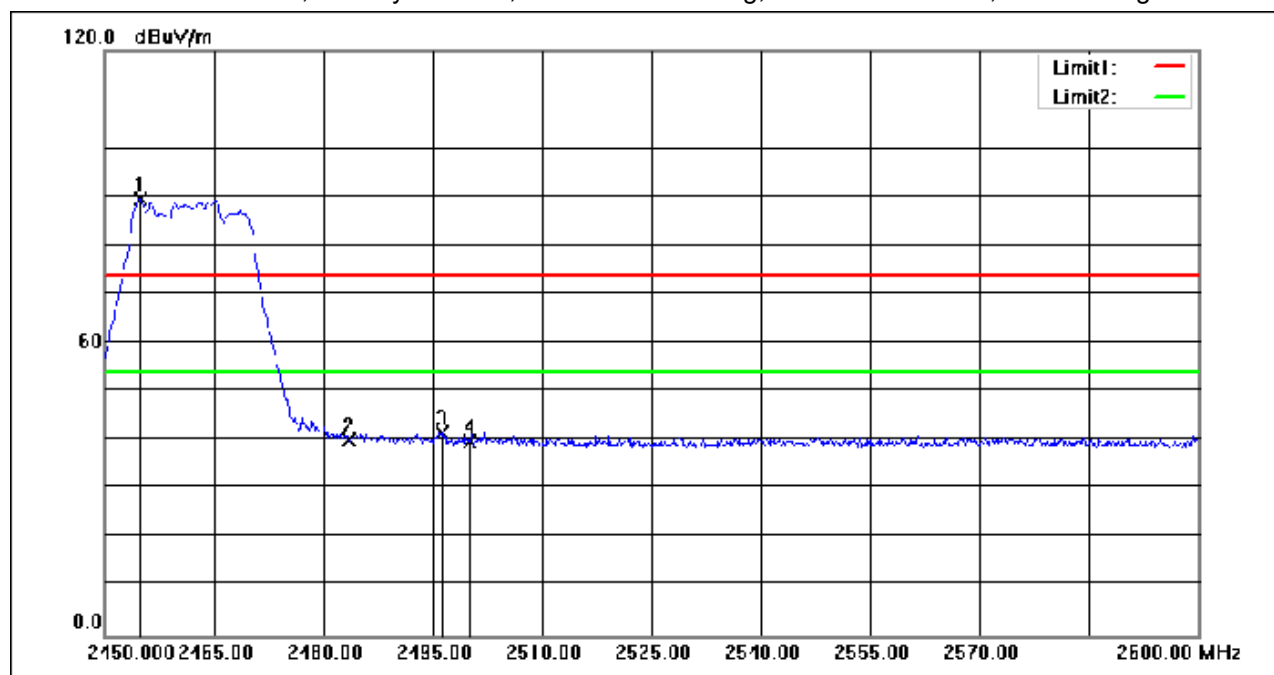
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	2454.800	108.26	-18.82	89.44	74.00	15.44	peak
2	2483.500	59.08	-18.92	40.16	74.00	-33.84	peak
3	2496.350	60.59	-18.96	41.63	74.00	-32.37	peak
4	2500.000	58.81	-18.98	39.83	74.00	-34.17	peak



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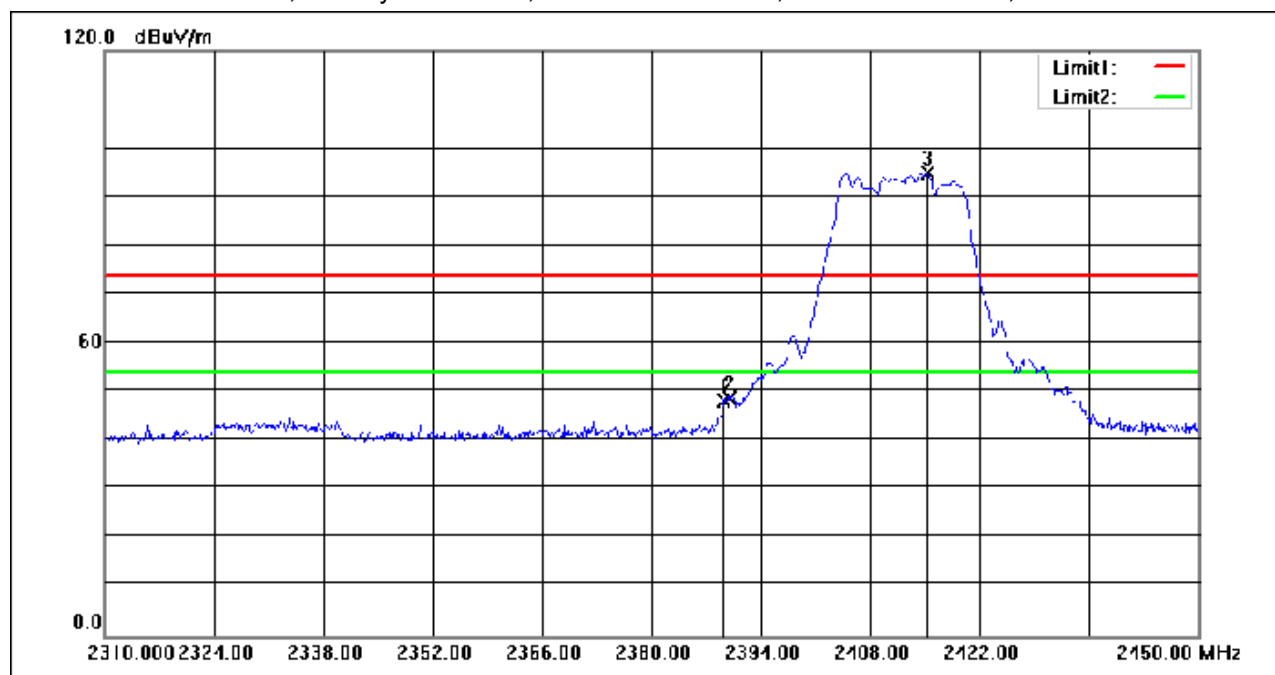
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	2389.240	67.63	-19.45	48.18	74.00	-25.82	peak
2	2390.000	68.12	-19.45	48.67	74.00	-25.33	peak
3	2415.280	114.10	-19.22	94.88	74.00	20.88	peak



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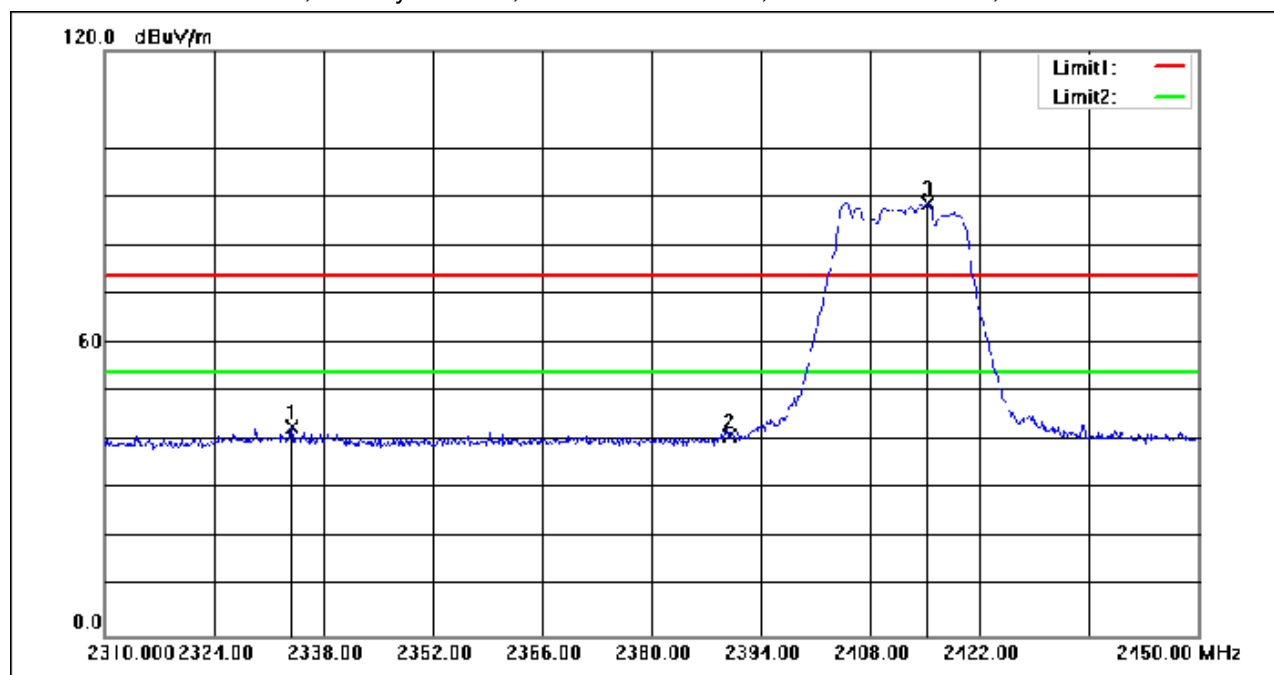
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	2333.940	62.52	-19.73	42.79	74.00	-31.21	peak
2	2390.000	60.51	-19.45	41.06	74.00	-32.94	peak
3	2415.280	107.97	-19.22	88.75	74.00	14.75	peak



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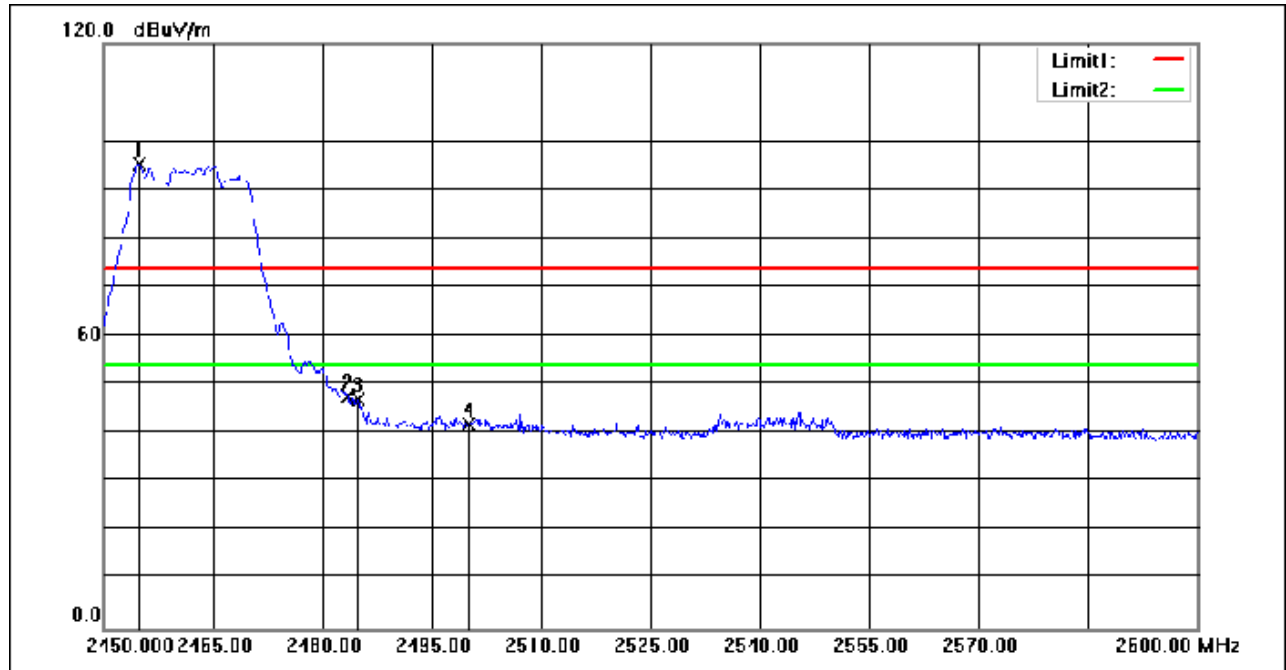
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	2454.800	113.95	-18.82	95.13	74.00	21.13	peak
2	2483.500	66.35	-18.92	47.43	74.00	-26.57	peak
3	2484.950	65.93	-18.93	47.00	74.00	-27.00	peak
4	2500.000	60.88	-18.98	41.90	74.00	-32.10	peak



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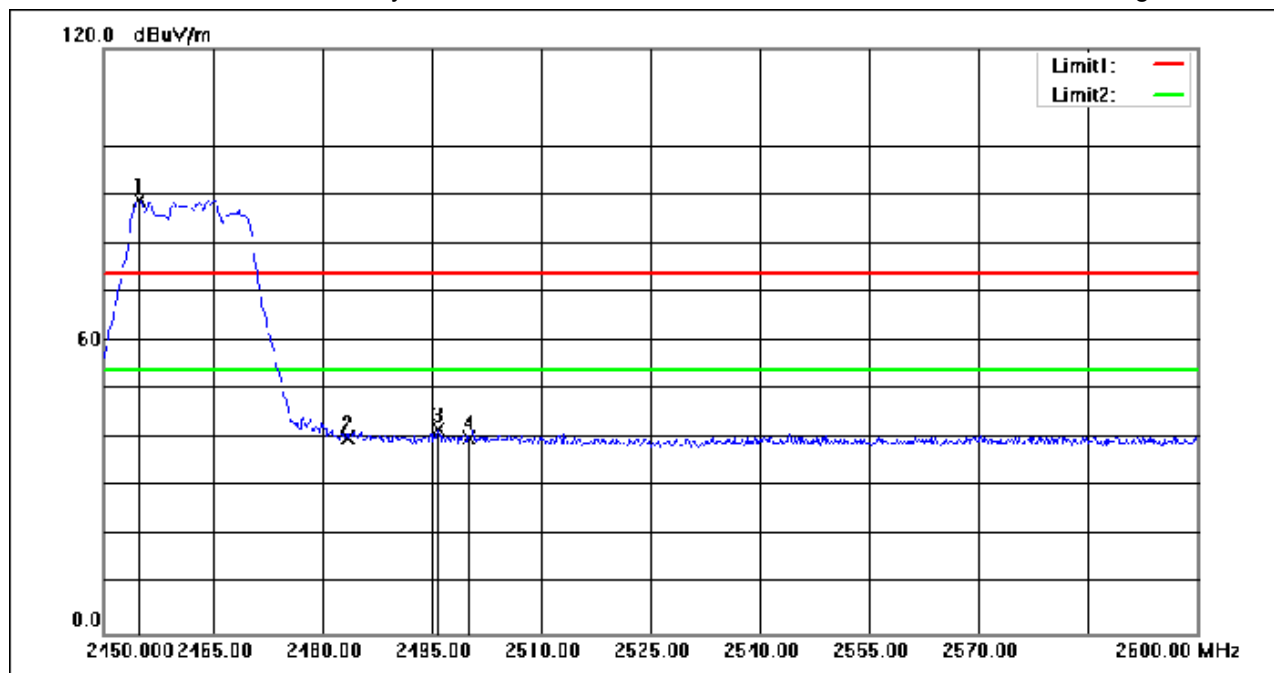
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	2454.800	107.88	-18.82	89.06	74.00	15.06	peak
2	2483.500	59.04	-18.92	40.12	74.00	-33.88	peak
3	2495.900	60.82	-18.96	41.86	74.00	-32.14	peak
4	2500.000	59.15	-18.98	40.17	74.00	-33.83	peak



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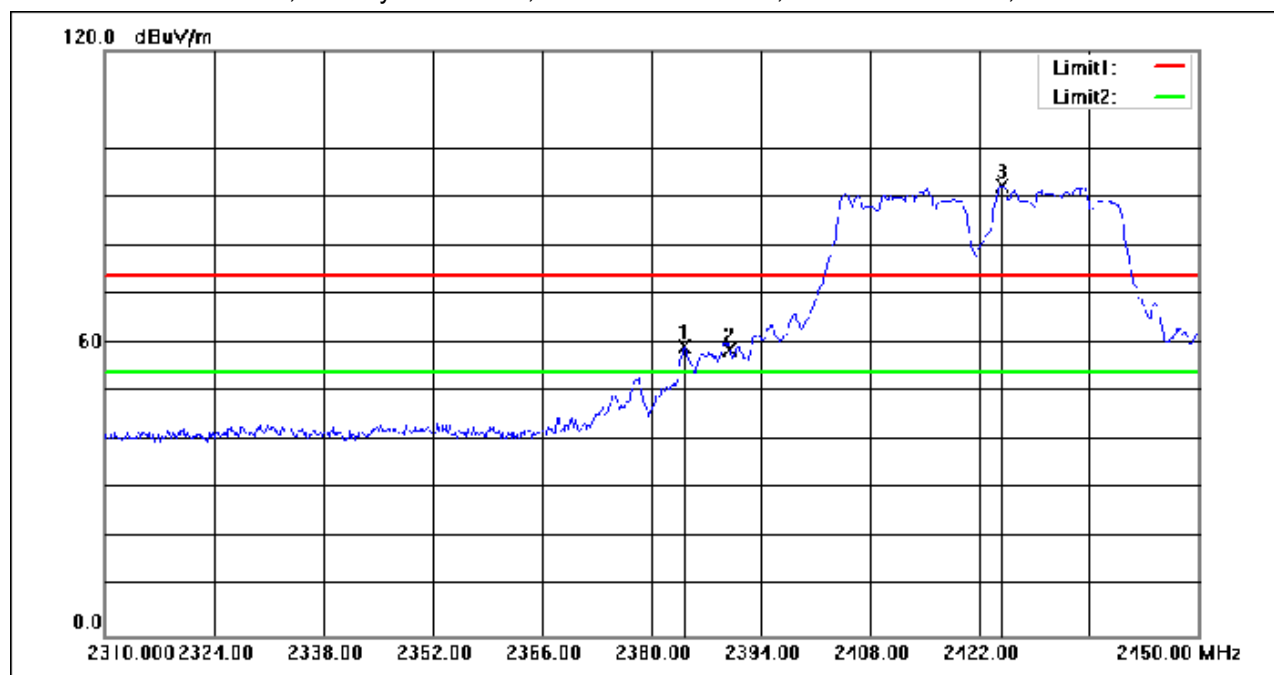
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.200	78.62	-19.48	59.14	74.00	-14.86	peak
2	2390.000	78.24	-19.45	58.79	74.00	-15.21	peak
3	2424.800	111.48	-19.11	92.37	74.00	18.37	peak



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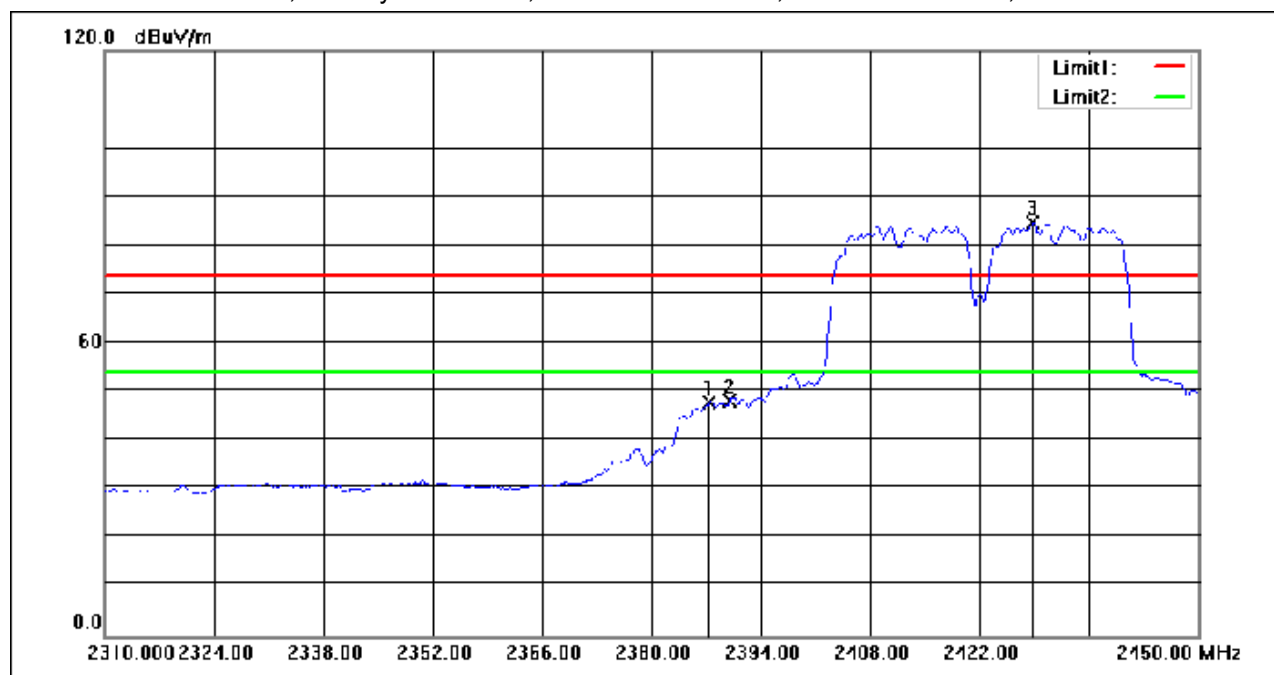
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Compliance Certification Services (Kunshan) Inc.

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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	2387.420	67.32	-19.46	47.86	54.00	-6.14	AVG
2	2390.000	67.71	-19.45	48.26	54.00	-5.74	AVG
3	2428.860	103.79	-19.05	84.74	54.00	30.74	AVG



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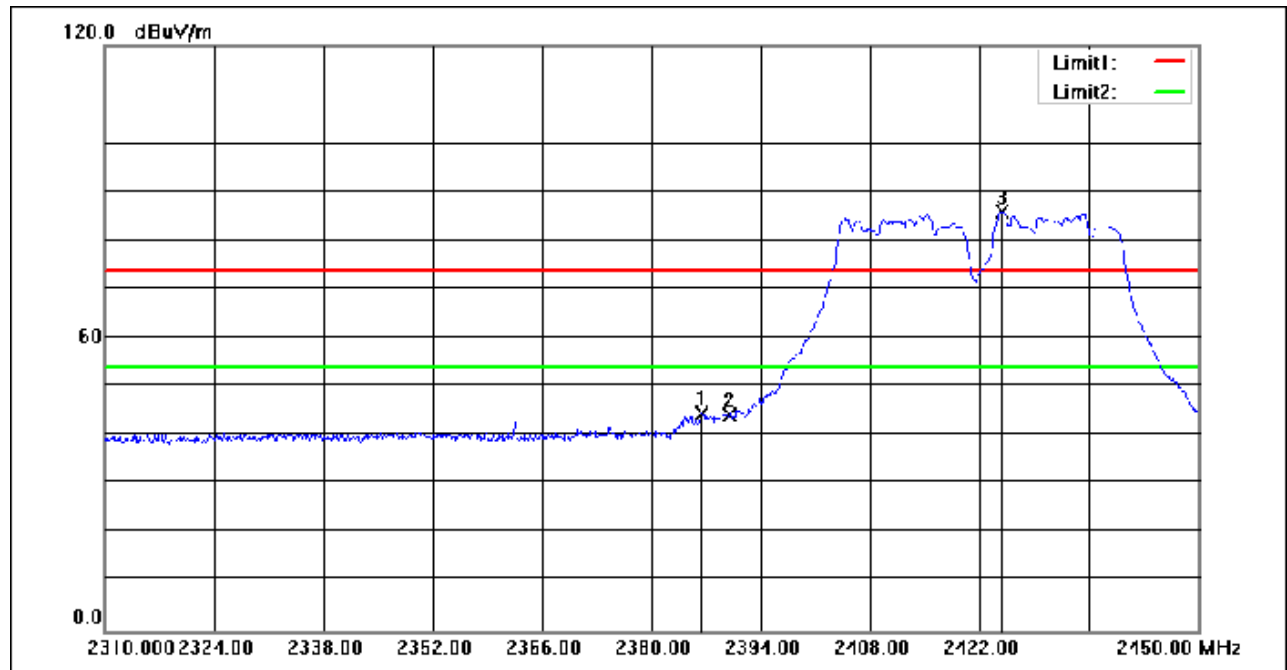
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.440	64.06	-19.47	44.59	74.00	-29.41	peak
2	2390.000	63.85	-19.45	44.40	74.00	-29.60	peak
3	2424.800	105.11	-19.11	86.00	74.00	12.00	peak



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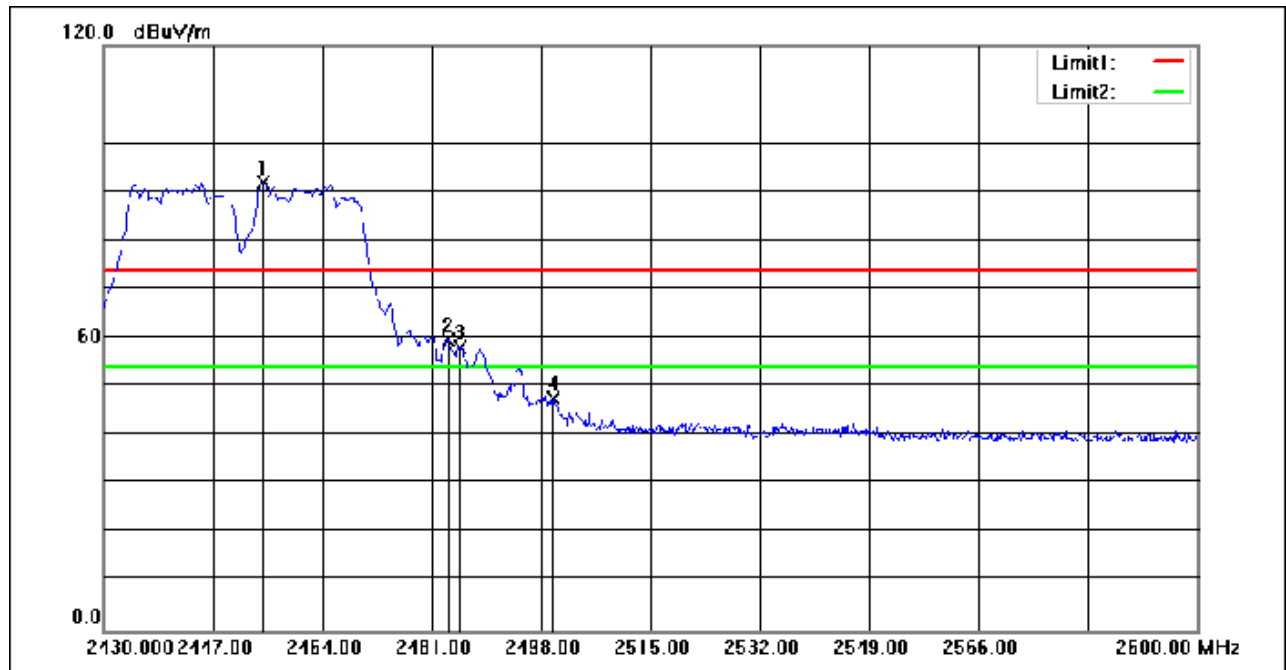
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2454.820	110.64	-18.82	91.82	74.00	17.82	peak
2	2483.500	78.53	-18.92	59.61	74.00	-14.39	peak
3	2485.420	76.97	-18.93	58.04	74.00	-15.96	peak
4	2500.000	66.48	-18.98	47.50	74.00	-26.50	peak



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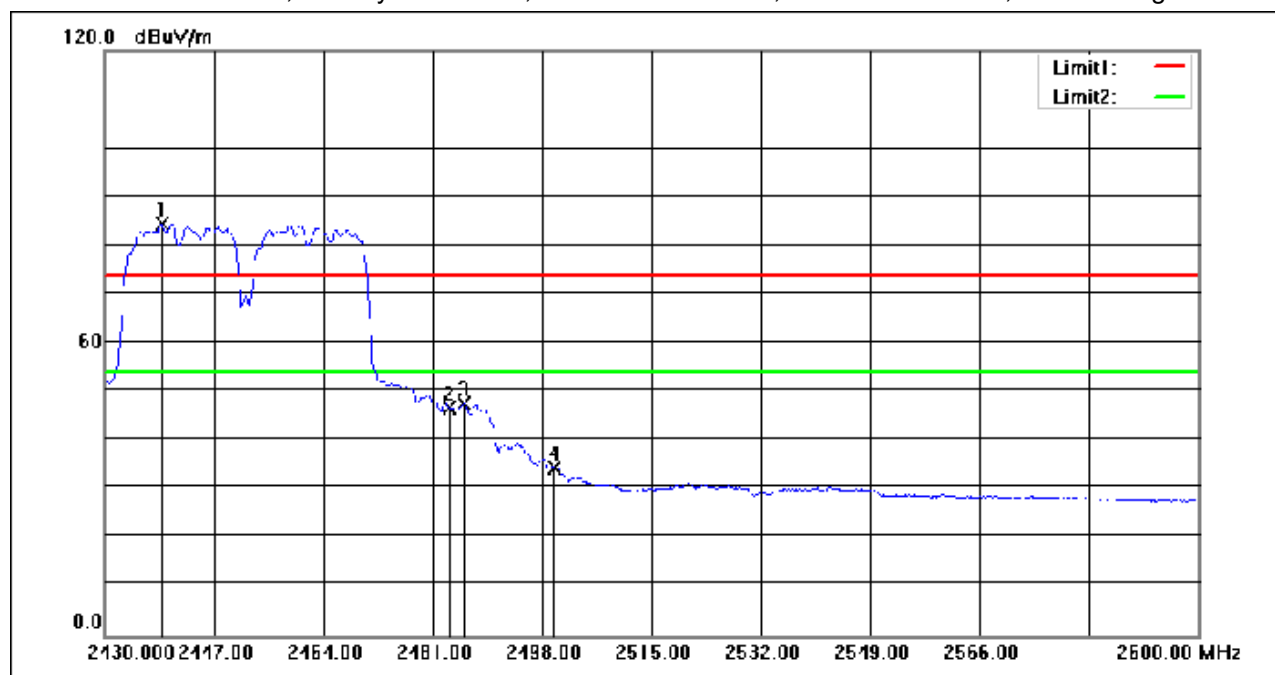
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	2438.840	103.33	-18.93	84.40	54.00	30.40	AVG
2	2483.500	65.69	-18.92	46.77	54.00	-7.23	AVG
3	2485.930	66.49	-18.93	47.56	54.00	-6.44	AVG
4	2500.000	53.46	-18.98	34.48	54.00	-19.52	AVG



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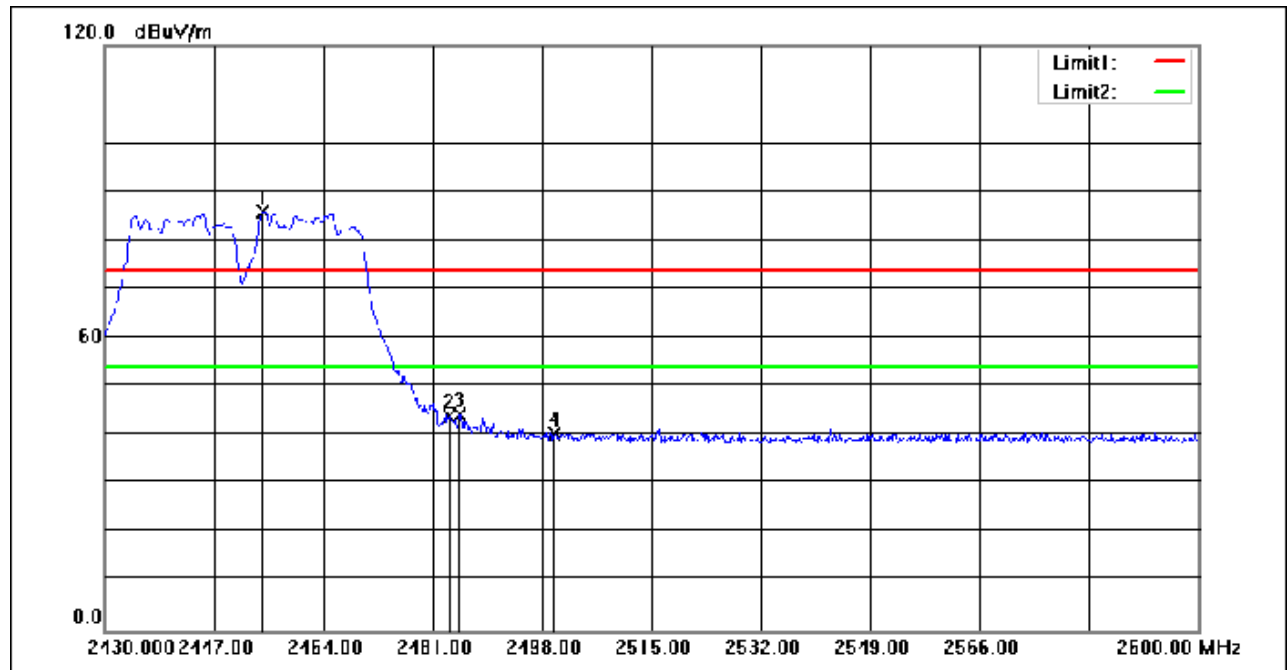
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	2454.650	104.84	-18.82	86.02	74.00	12.02	peak
2	2483.500	62.98	-18.92	44.06	74.00	-29.94	peak
3	2485.250	63.16	-18.93	44.23	74.00	-29.77	peak
4	2500.000	59.47	-18.98	40.49	74.00	-33.51	peak



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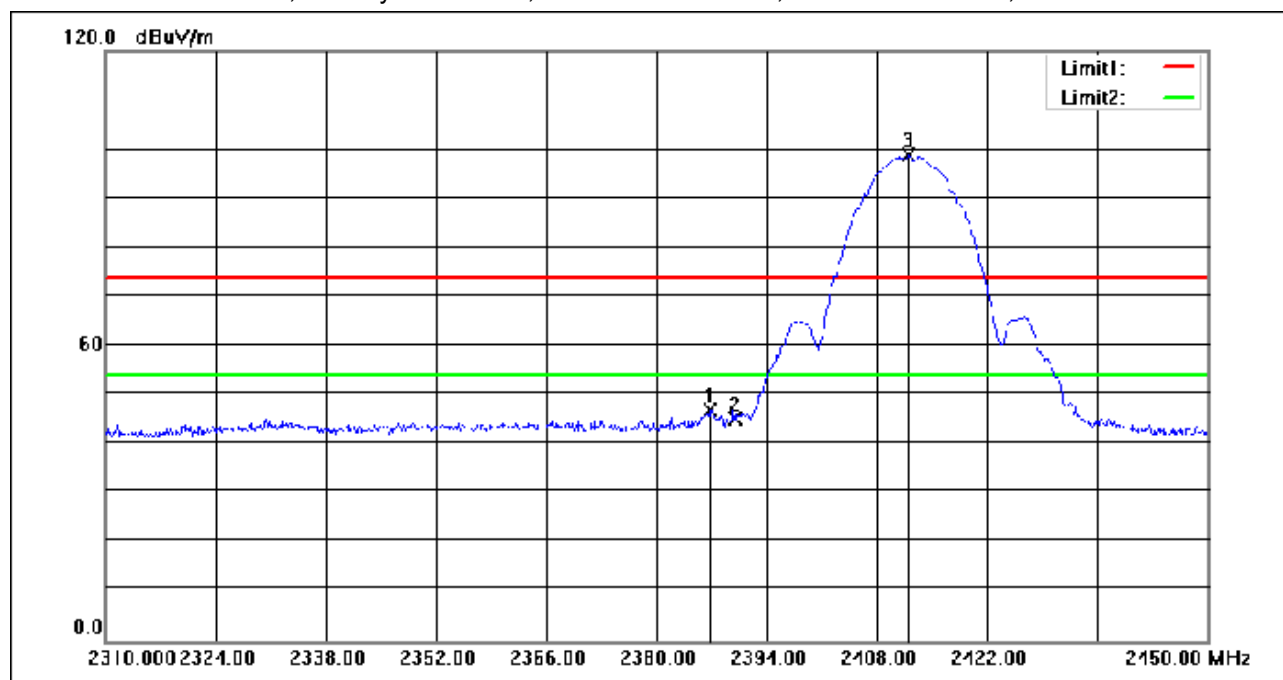
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 01; 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	2386.720	66.54	-19.47	47.07	74.00	-26.93	peak
2	2390.000	64.67	-19.45	45.22	74.00	-28.78	peak
3	2412.060	118.02	-19.26	98.76	74.00	24.76	peak



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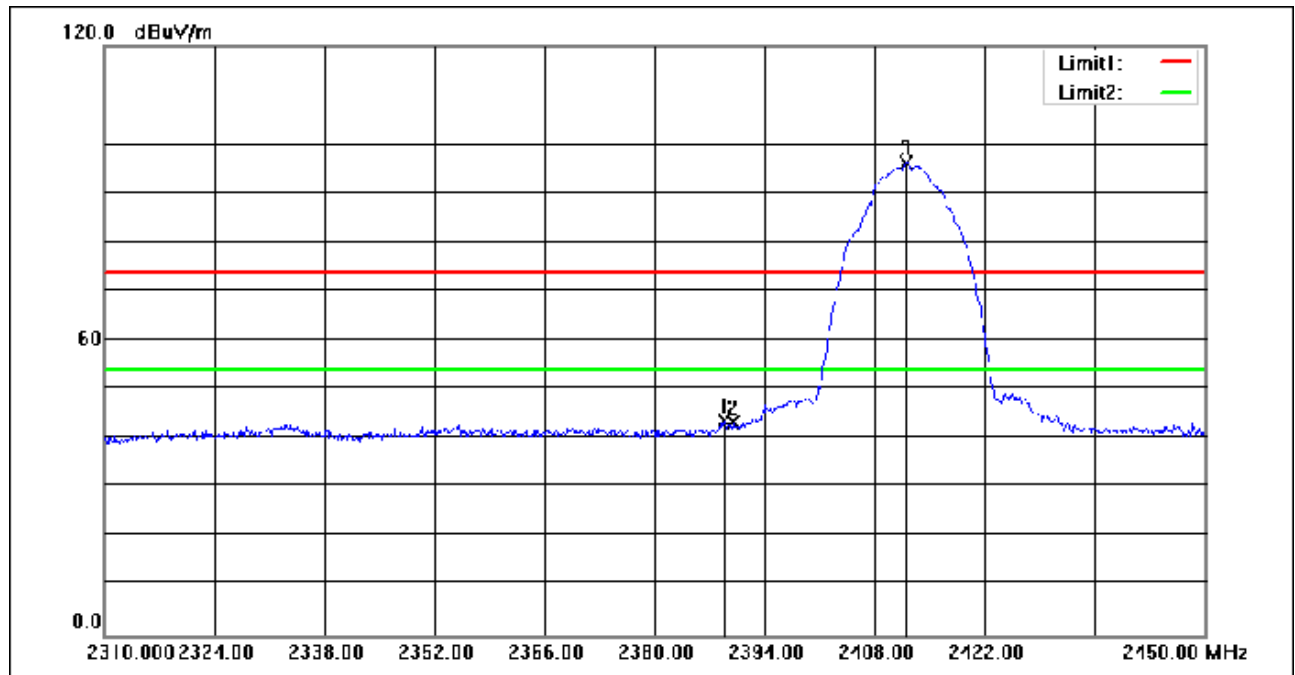
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	2388.820	63.03	-19.45	43.58	74.00	-30.42	peak
2	2390.000	62.68	-19.45	43.23	74.00	-30.77	peak
3	2412.060	115.41	-19.26	96.15	74.00	22.15	peak



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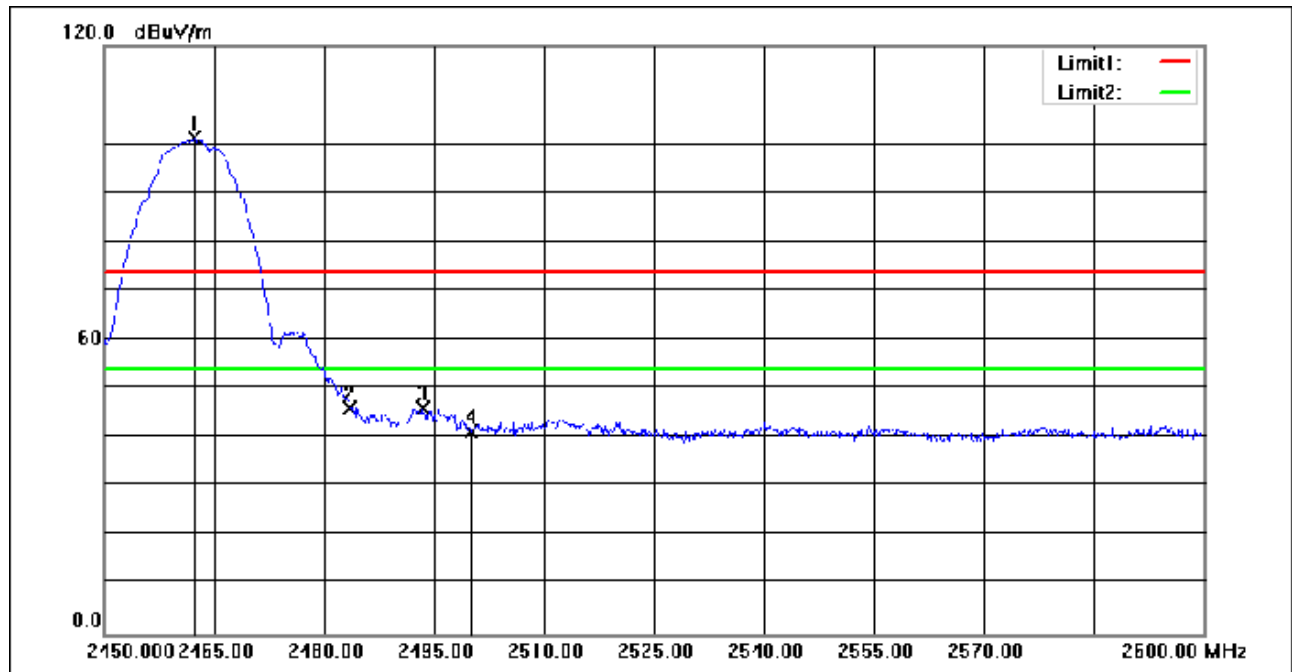
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.300	120.11	-18.85	101.26	74.00	27.26	peak
2	2483.500	65.01	-18.92	46.09	74.00	-27.91	peak
3	2493.500	65.10	-18.96	46.14	74.00	-27.86	peak
4	2500.000	60.32	-18.98	41.34	74.00	-32.66	peak



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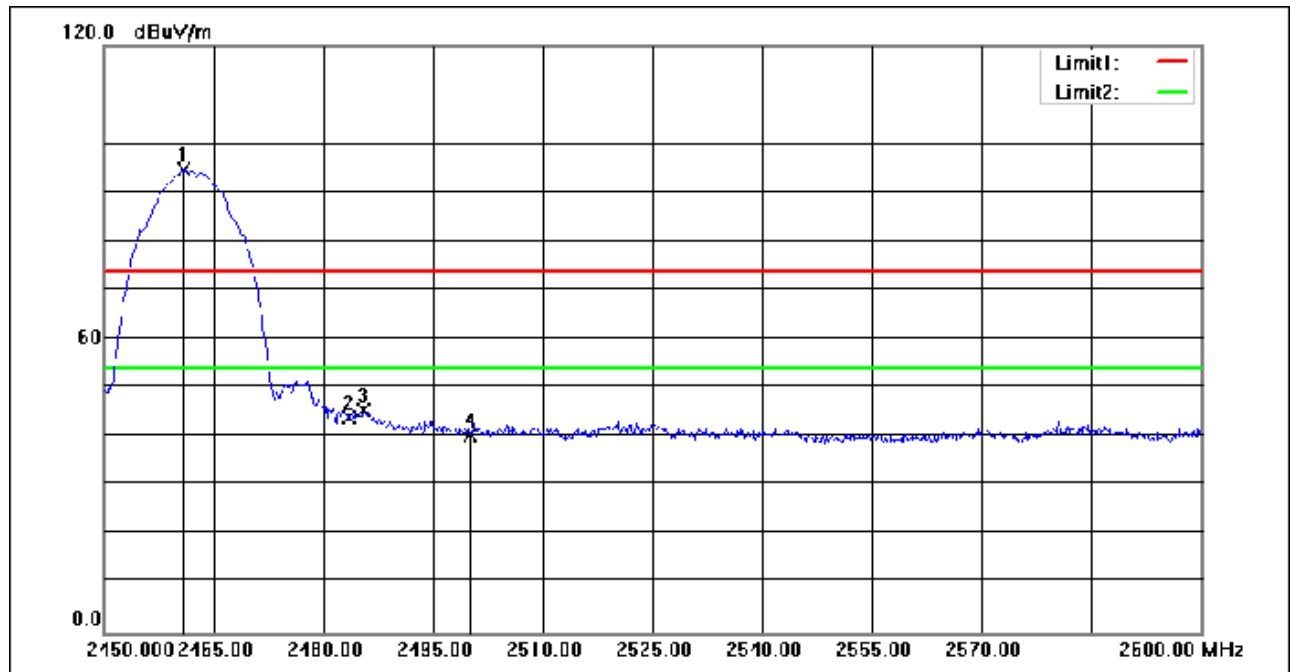
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	2460.950	113.36	-18.84	94.52	74.00	20.52	peak
2	2483.500	63.02	-18.92	44.10	74.00	-29.90	peak
3	2485.400	64.42	-18.93	45.49	74.00	-28.51	peak
4	2500.000	59.35	-18.98	40.37	74.00	-33.63	peak



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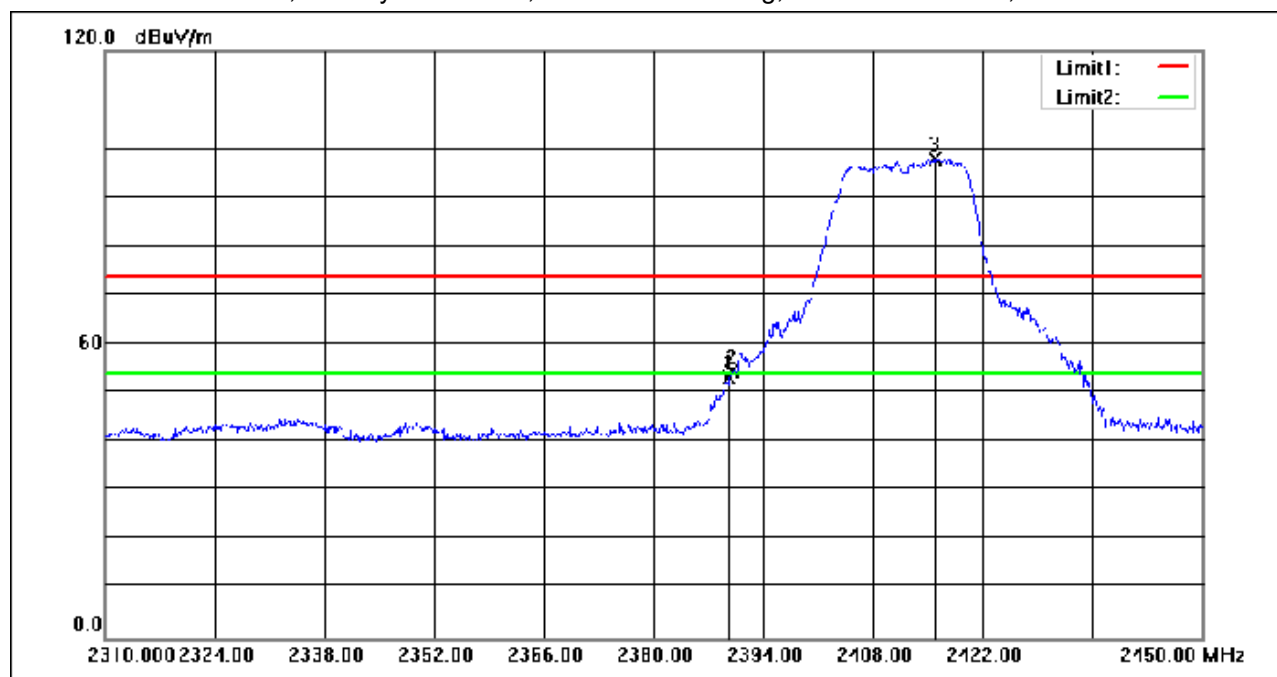
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	2389.660	72.74	-19.45	53.29	74.00	-20.71	peak
2	2390.000	73.83	-19.45	54.38	74.00	-19.62	peak
3	2415.840	117.16	-19.21	97.95	74.00	23.95	peak



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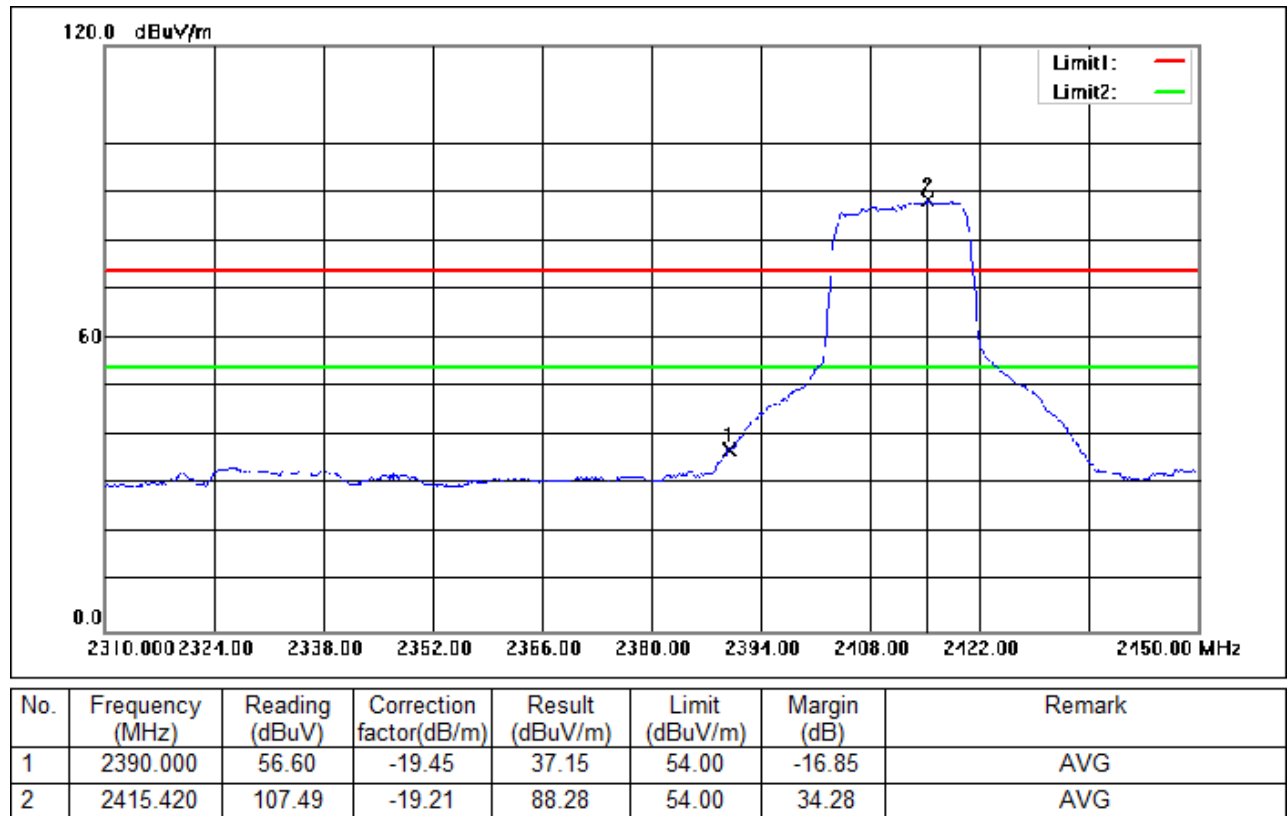
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



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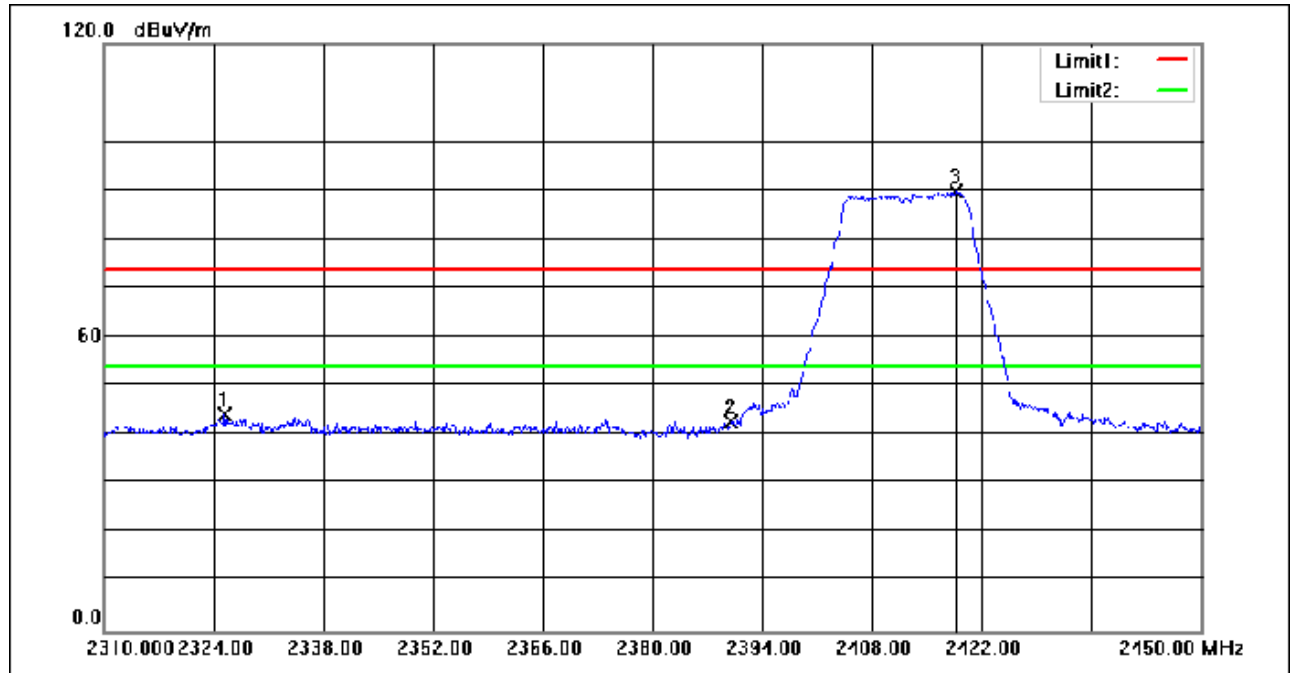
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2325.400	64.03	-19.78	44.25	74.00	-29.75	peak
2	2390.000	62.27	-19.45	42.82	74.00	-31.18	peak
3	2418.640	108.94	-19.17	89.77	74.00	15.77	peak



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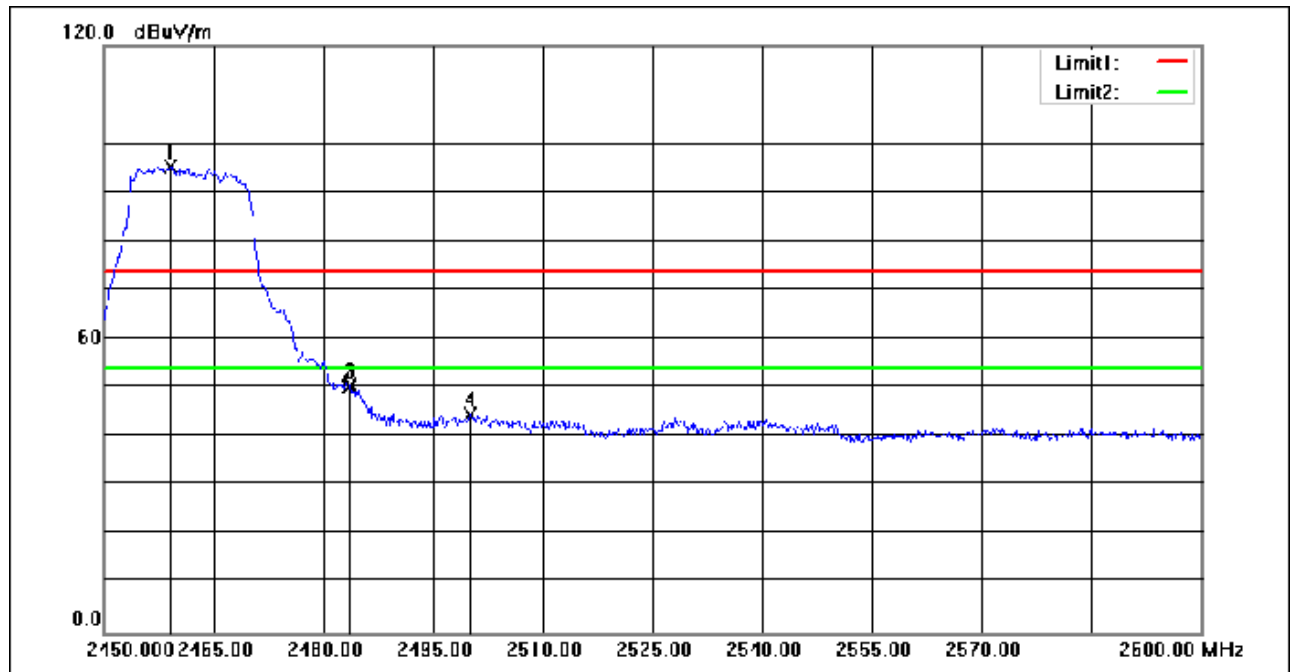
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11g; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.150	114.09	-18.83	95.26	74.00	21.26	peak
2	2483.500	69.14	-18.92	50.22	74.00	-23.78	peak
3	2483.750	69.33	-18.92	50.41	74.00	-23.59	peak
4	2500.000	63.65	-18.98	44.67	74.00	-29.33	peak



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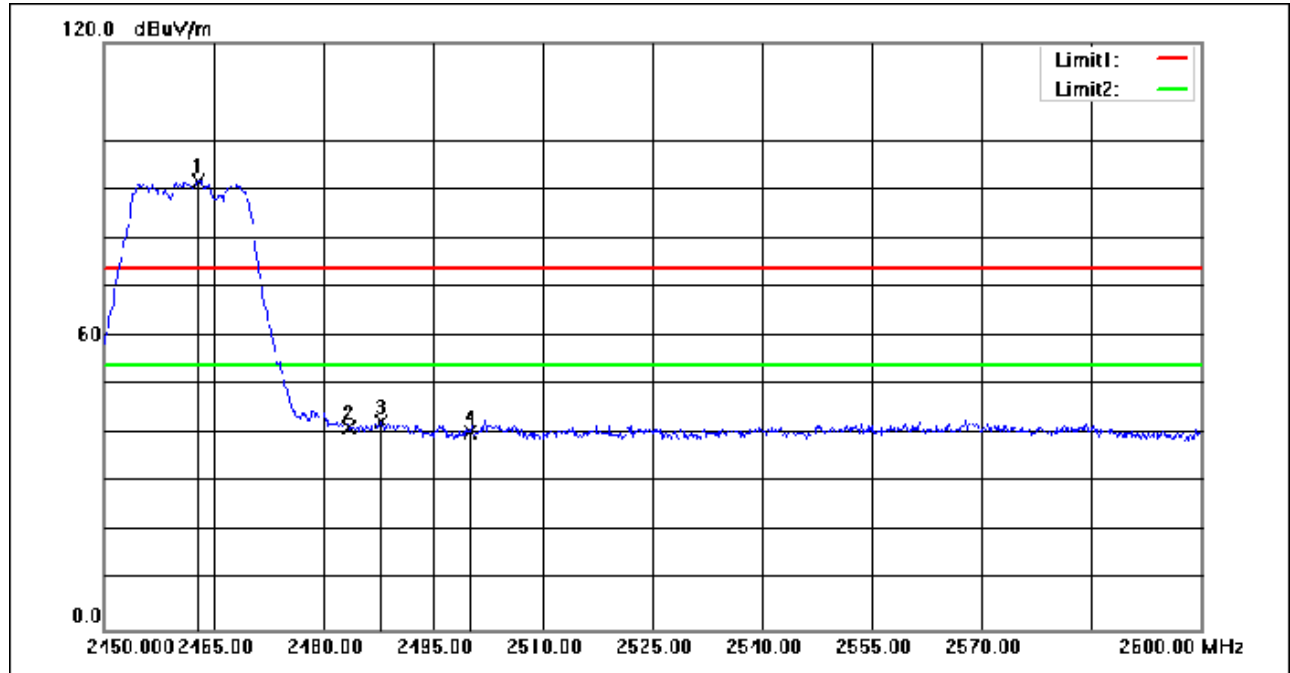
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Test Mode: 01; Polarity: Vertical; Modulation: 802.11g; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.900	110.49	-18.85	91.64	74.00	17.64	peak
2	2483.500	60.08	-18.92	41.16	74.00	-32.84	peak
3	2487.950	61.45	-18.93	42.52	74.00	-31.48	peak
4	2500.000	59.31	-18.98	40.33	74.00	-33.67	peak



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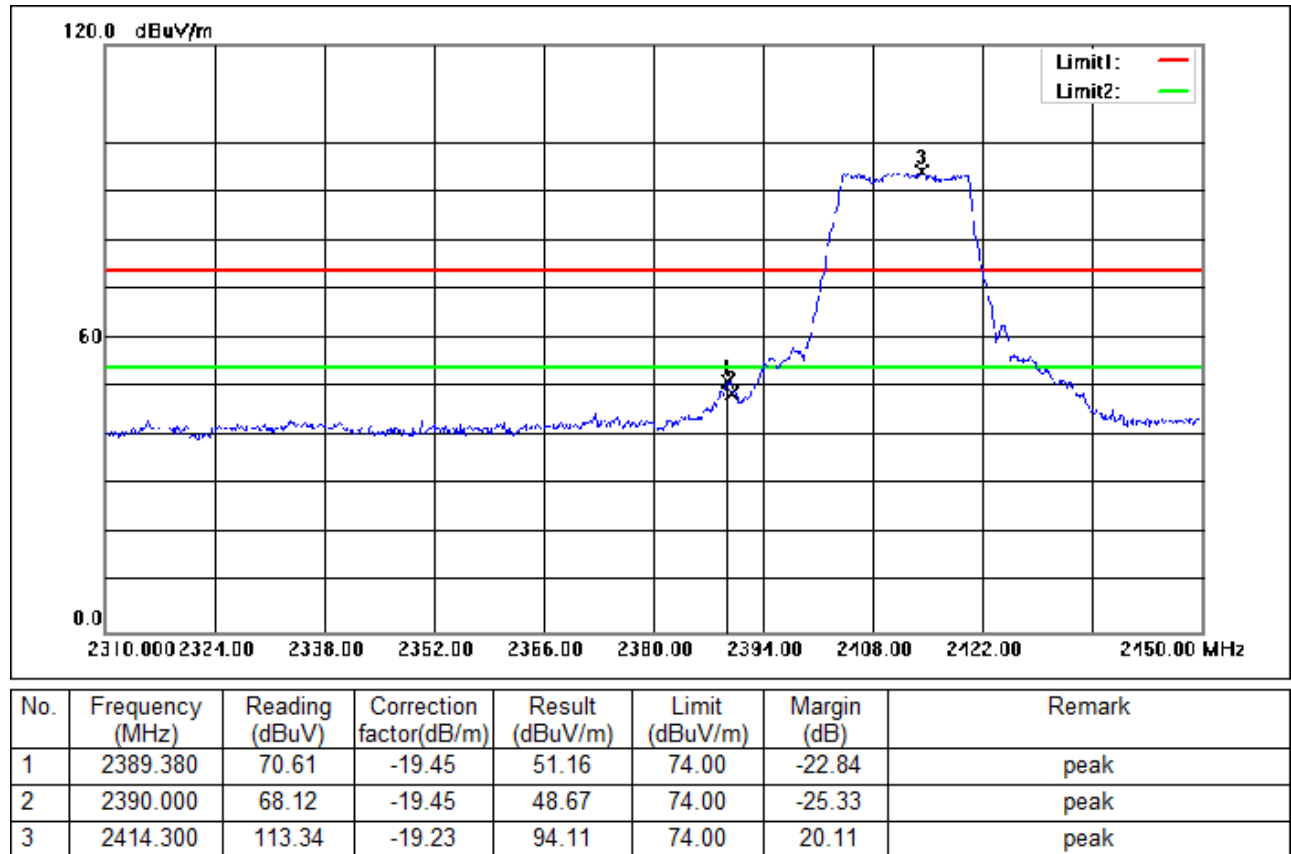
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



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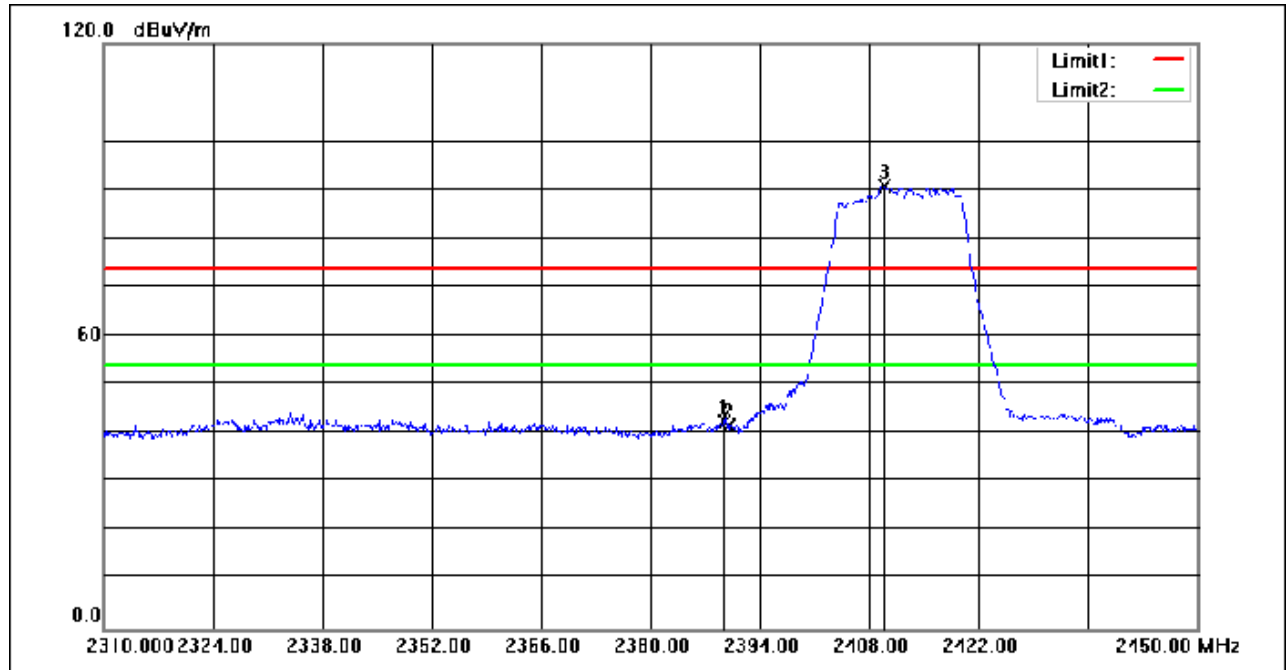
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.380	62.00	-19.45	42.55	74.00	-31.45	peak
2	2390.000	61.01	-19.45	41.56	74.00	-32.44	peak
3	2409.960	109.92	-19.28	90.64	74.00	16.64	peak



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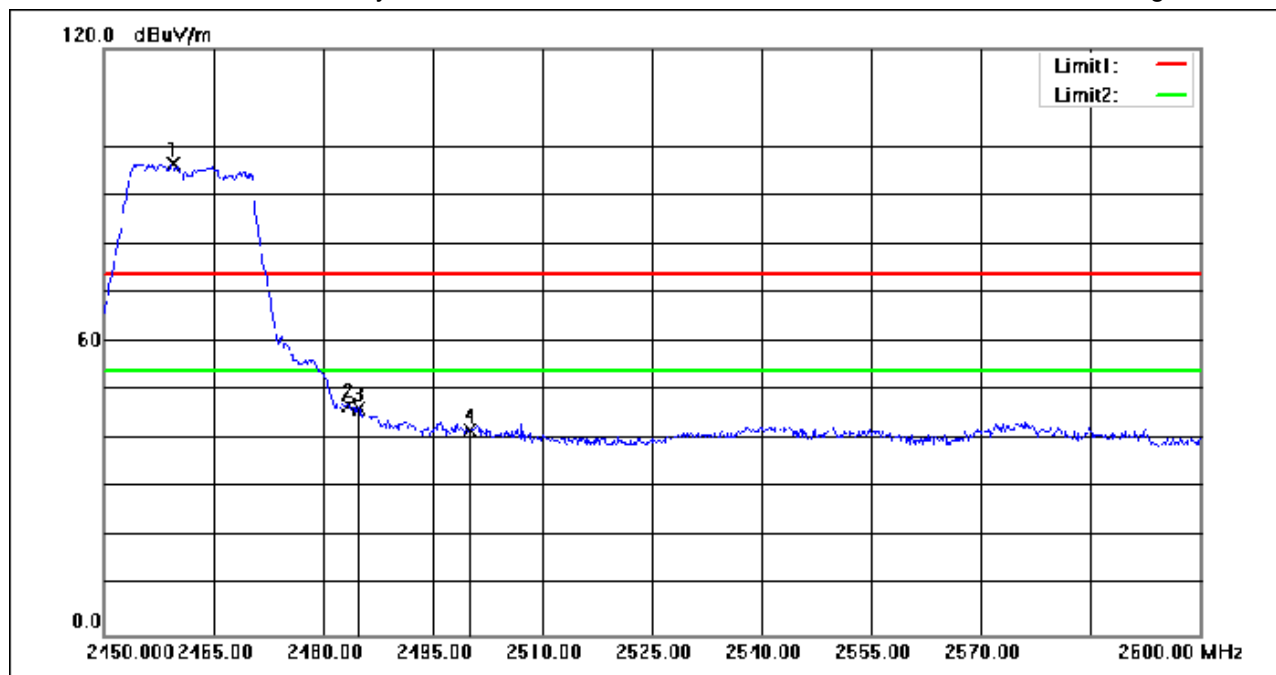
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.450	115.42	-18.83	96.59	74.00	22.59	peak
2	2483.500	65.85	-18.92	46.93	74.00	-27.07	peak
3	2484.950	65.43	-18.93	46.50	74.00	-27.50	peak
4	2500.000	60.88	-18.98	41.90	74.00	-32.10	peak



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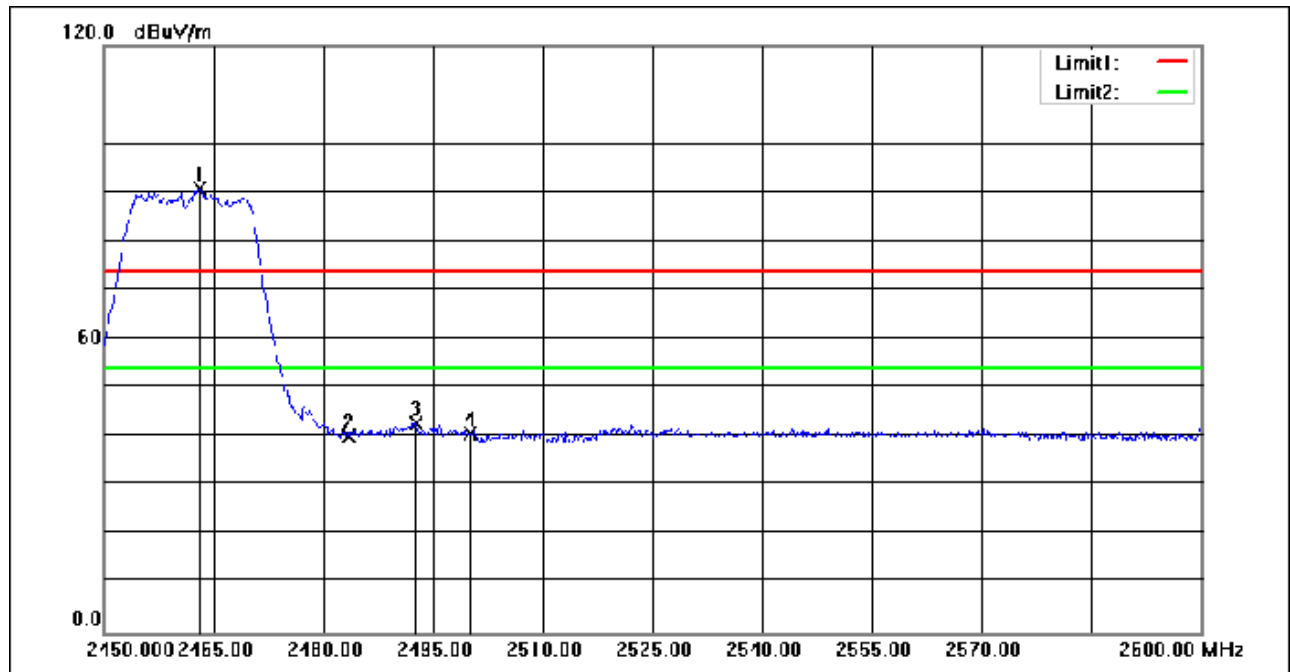
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Test Mode: 01; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.050	109.60	-18.85	90.75	74.00	16.75	peak
2	2483.500	59.04	-18.92	40.12	74.00	-33.88	peak
3	2492.750	61.78	-18.95	42.83	74.00	-31.17	peak
4	2500.000	59.65	-18.98	40.67	74.00	-33.33	peak



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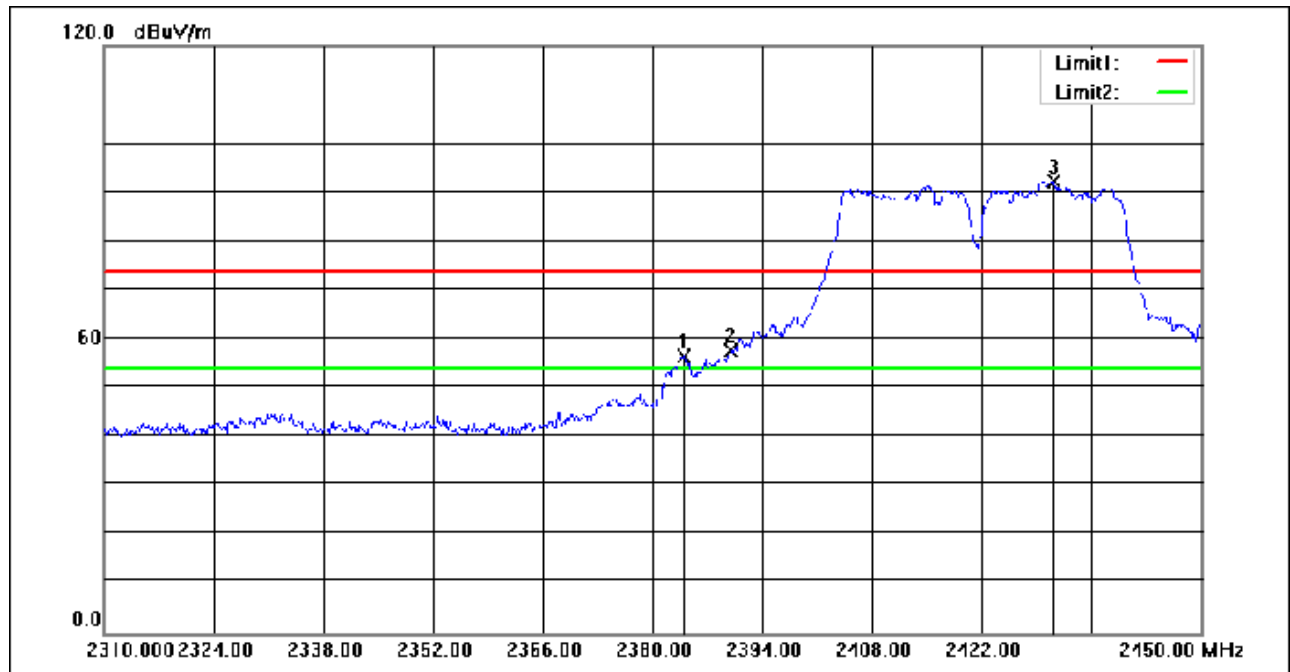
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2383.920	76.12	-19.48	56.64	74.00	-17.36	peak
2	2390.000	77.24	-19.45	57.79	74.00	-16.21	peak
3	2431.240	111.29	-19.03	92.26	74.00	18.26	peak



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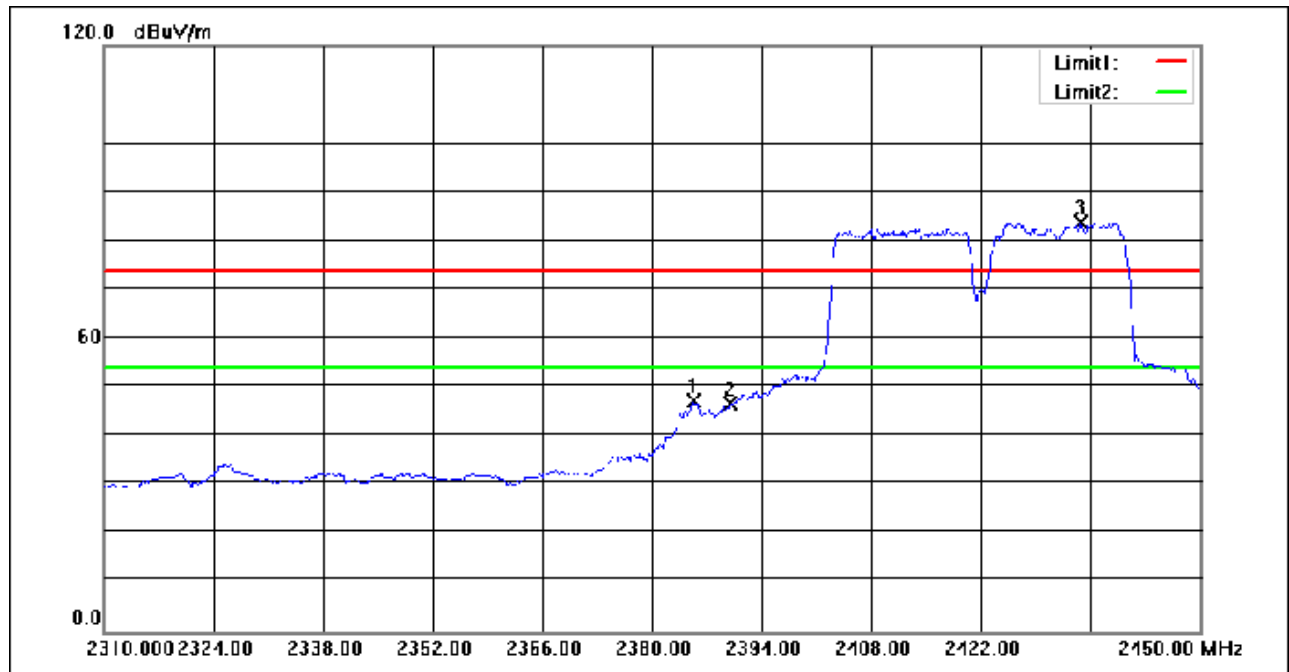
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 01; 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	2385.320	66.85	-19.48	47.37	54.00	-6.63	AVG
2	2390.000	66.21	-19.45	46.76	54.00	-7.24	AVG
3	2434.740	102.81	-18.98	83.83	54.00	29.83	AVG



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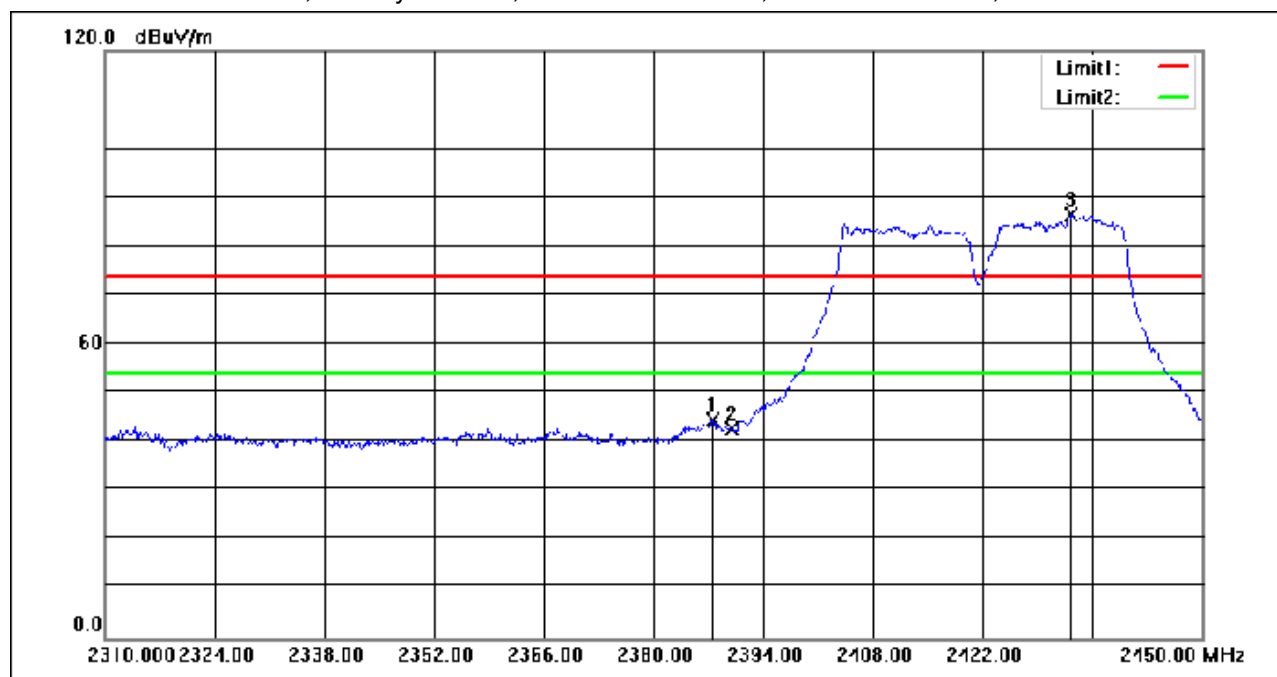
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.560	63.94	-19.46	44.48	74.00	-29.52	peak
2	2390.000	62.35	-19.45	42.90	74.00	-31.10	peak
3	2433.340	105.49	-19.00	86.49	74.00	12.49	peak



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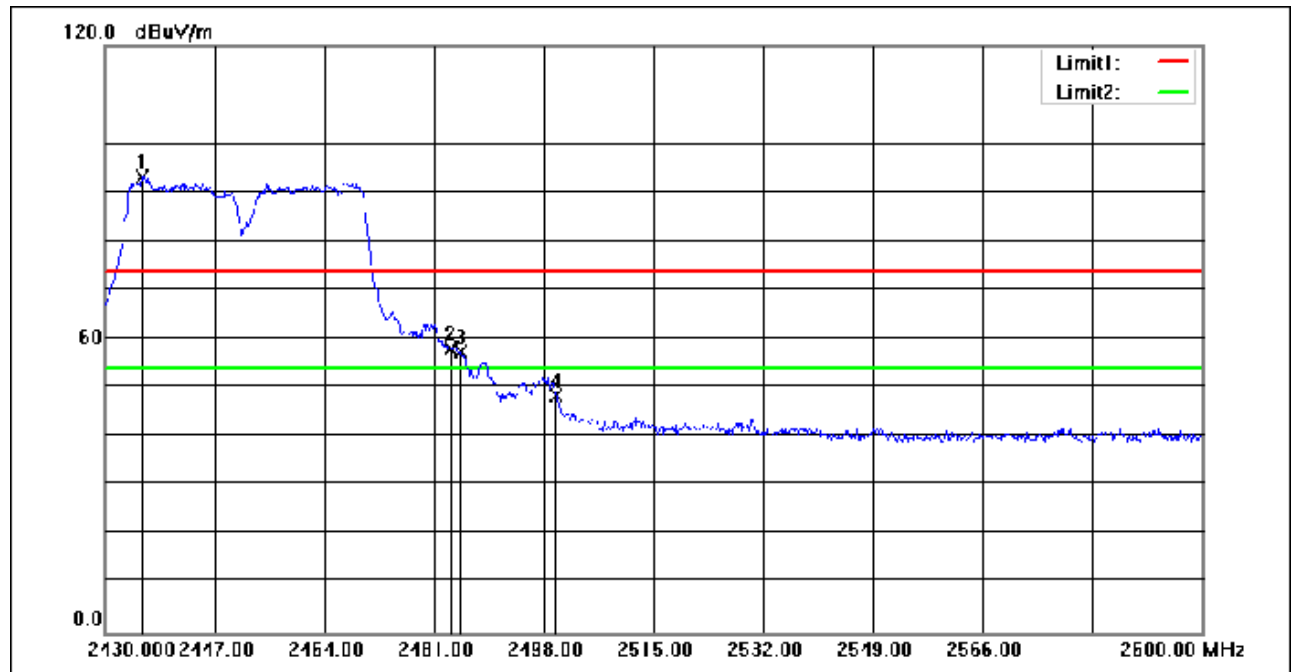
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 01; 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	2435.780	112.13	-18.97	93.16	74.00	19.16	peak
2	2483.500	77.03	-18.92	58.11	74.00	-15.89	peak
3	2485.080	76.41	-18.93	57.48	74.00	-16.52	peak
4	2500.000	67.48	-18.98	48.50	74.00	-25.50	peak



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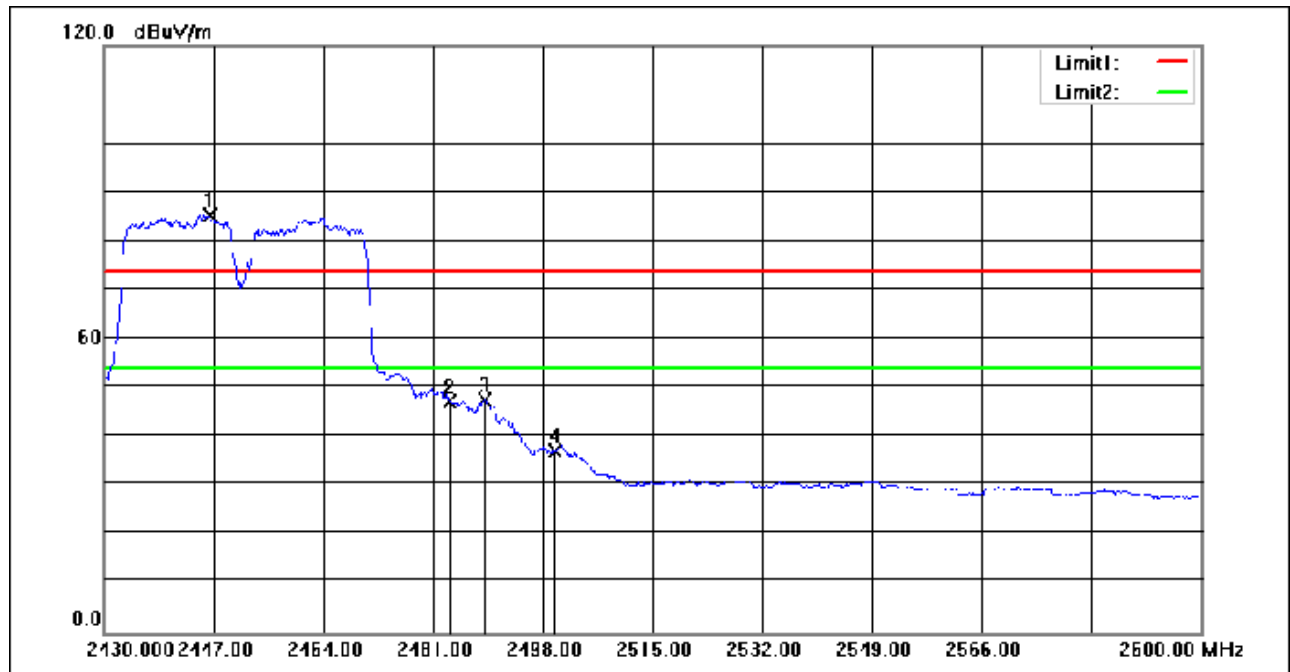
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2446.320	104.30	-18.84	85.46	54.00	31.46	AVG
2	2483.500	66.19	-18.92	47.27	54.00	-6.73	AVG
3	2488.990	66.37	-18.94	47.43	54.00	-6.57	AVG
4	2500.000	55.96	-18.98	36.98	54.00	-17.02	AVG



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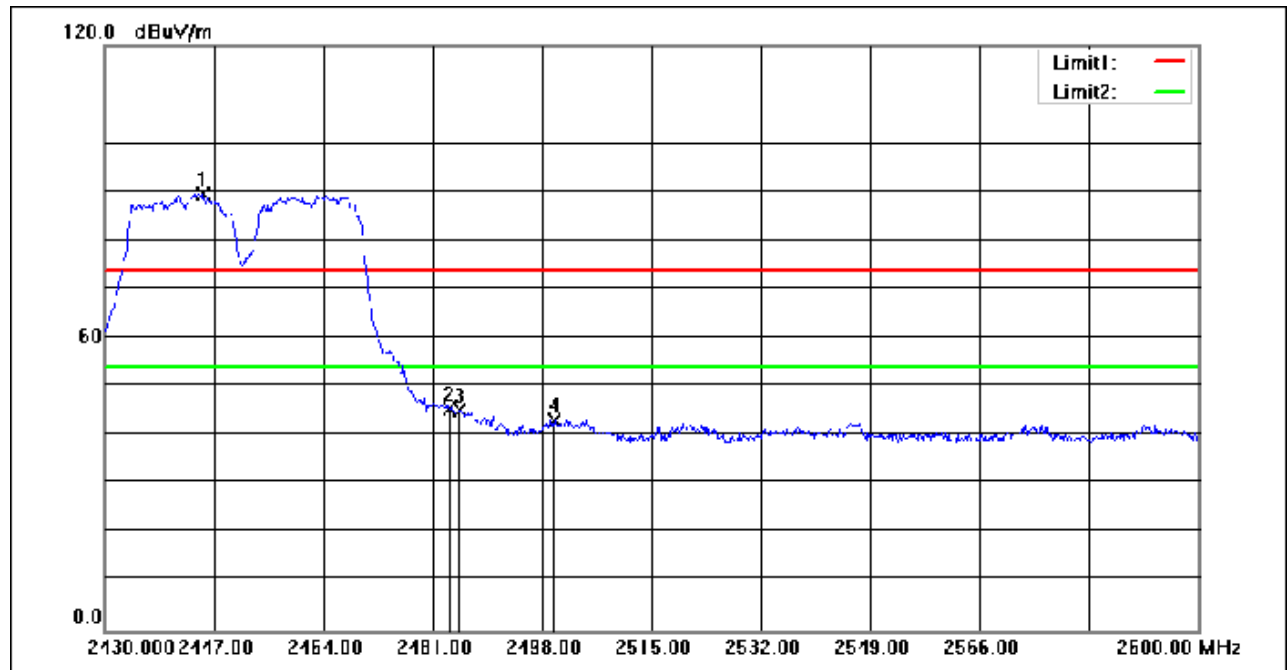
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Test Mode: 01; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2445.300	108.44	-18.86	89.58	74.00	15.58	peak
2	2483.500	64.48	-18.92	45.56	74.00	-28.44	peak
3	2485.250	64.16	-18.93	45.23	74.00	-28.77	peak
4	2500.000	61.97	-18.98	42.99	74.00	-31.01	peak



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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

Measurement Distance: 3m

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25.1 °C

Humidity: 44.2 % 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 (OEI-371S-H-W) 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.
Final test	01	TX mode_Keep the EUT (OEI-372S-H-W) 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.

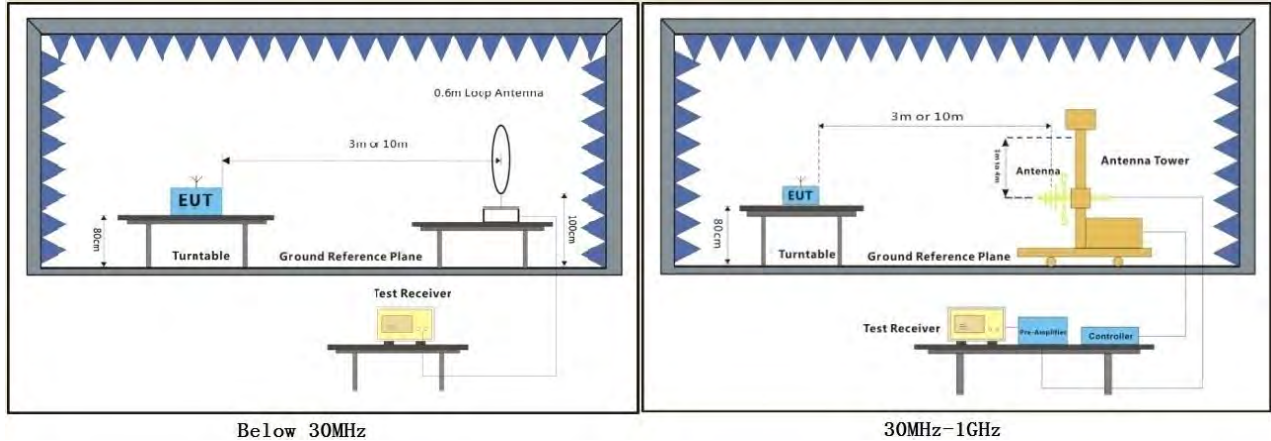


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7.8.3 Test Setup Diagram



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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 be test using two power supply (AC 120V for adapter & AC 120V for POE) and only record the worst data of DC 12V by adapter in the report.

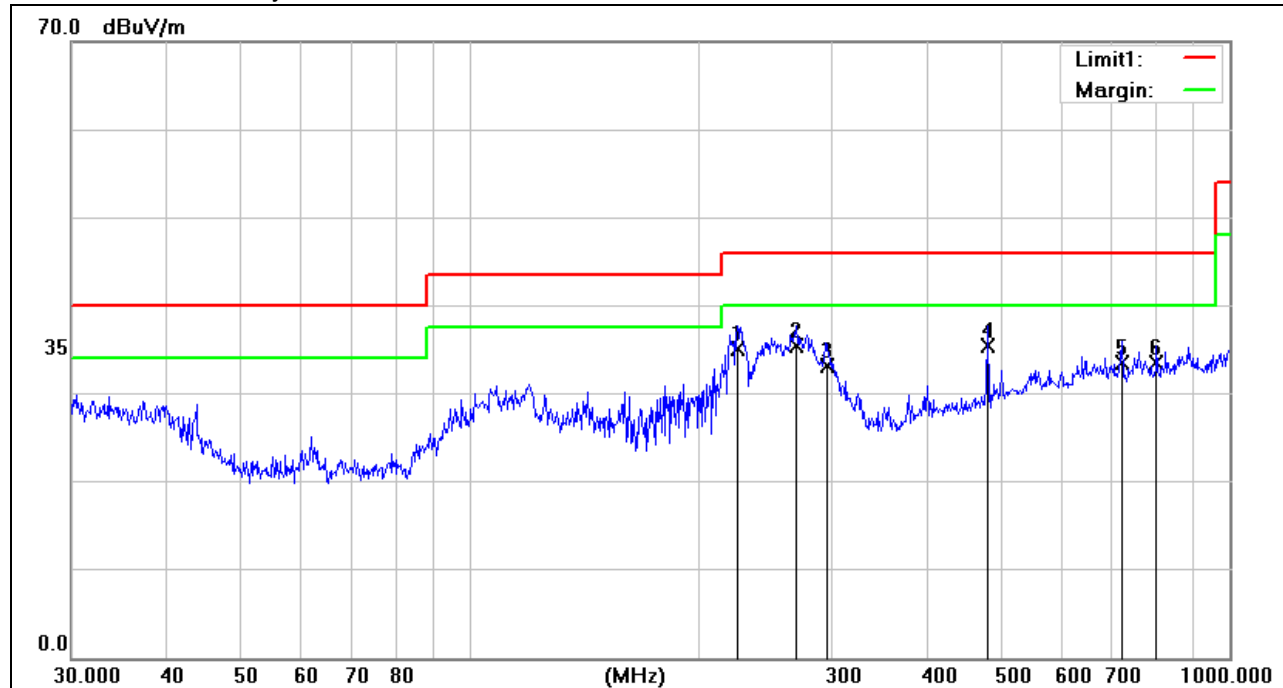


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Test Mode: 00; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	225.3080	18.08	17.07	35.15	46.00	-10.85	100	352	QP
2	269.4284	14.89	20.47	35.36	46.00	-10.64	100	198	QP
3	296.1836	12.67	20.58	33.25	46.00	-12.75	200	345	QP
4	480.5276	10.20	25.22	35.42	46.00	-10.58	100	158	QP
5	721.7259	5.52	27.97	33.49	46.00	-12.51	200	354	QP
6	801.7863	5.28	28.26	33.54	46.00	-12.46	100	142	QP

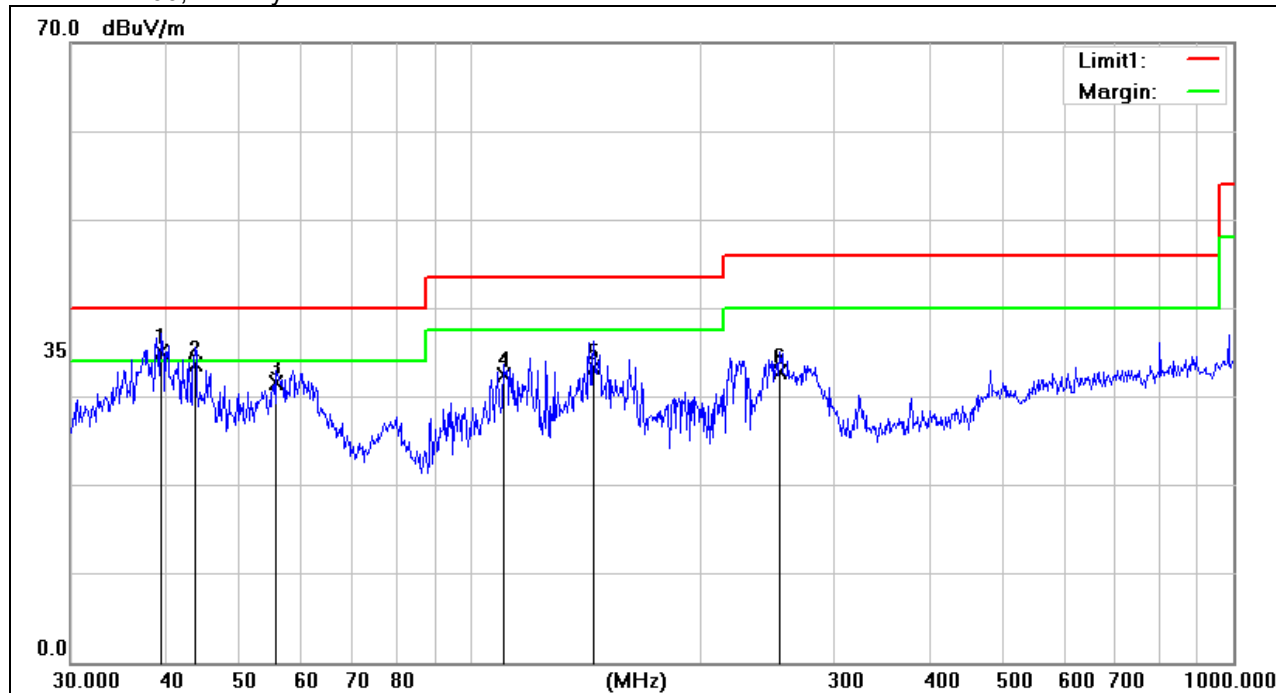


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Test Mode: 00; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	39.4372	12.56	22.49	35.05	40.00	-4.95	100	11	QP
2	43.6585	13.23	20.39	33.62	40.00	-6.38	200	98	QP
3	55.8047	15.67	15.87	31.54	40.00	-8.46	100	67	QP
4	110.5687	13.92	18.60	32.52	43.50	-10.98	200	300	QP
5	145.3506	15.18	18.08	33.26	43.50	-10.24	100	347	QP
6	254.7284	12.67	20.15	32.82	46.00	-13.18	100	343	QP



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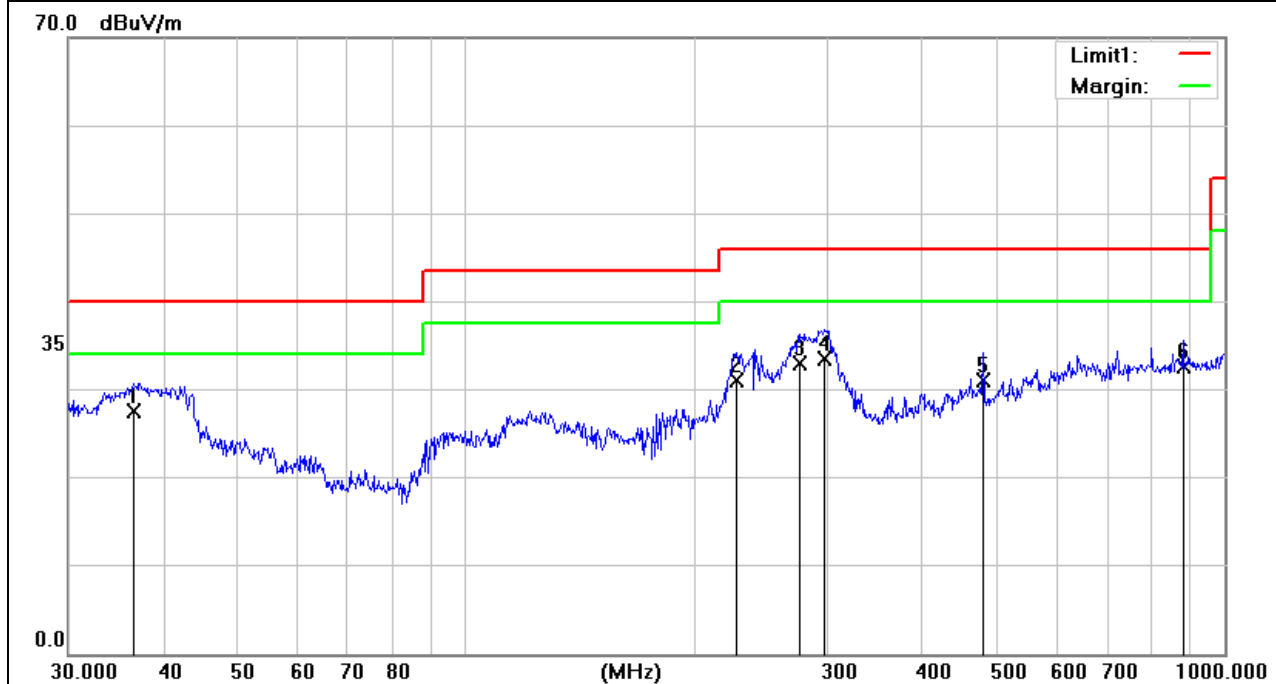
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Test Mode: 01; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	36.5090	3.77	23.85	27.62	40.00	-12.38	100	85	QP
2	227.6904	13.71	17.34	31.05	46.00	-14.95	200	360	QP
3	276.1235	12.84	20.21	33.05	46.00	-12.95	100	252	QP
4	297.2241	12.85	20.62	33.47	46.00	-12.53	100	98	QP
5	480.5276	5.86	25.22	31.08	46.00	-14.92	200	165	QP
6	881.4067	30.22	2.36	32.58	46.00	-13.42	200	12	QP



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Test Mode: 01; 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	35.8746	9.83	24.18	34.01	40.00	-5.99	100	269		QP
2	102.0014	13.61	17.44	31.05	43.50	-12.45	100	182		QP
3	147.9214	16.18	17.93	34.11	43.50	-9.39	200	73		QP
4	227.6904	14.94	17.34	32.28	46.00	-13.72	100	41		QP
5	480.5276	7.02	25.22	32.24	46.00	-13.76	100	59		QP
6	801.7862	30.97	2.19	33.16	46.00	-12.84	100	114		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

Measurement Distance: 3m

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25.1 °C

Humidity: 44.2 % 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 (OEI-371S-H-W) 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.
Final test	01	TX mode_Keep the EUT (OEI-372S-H-W) 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.

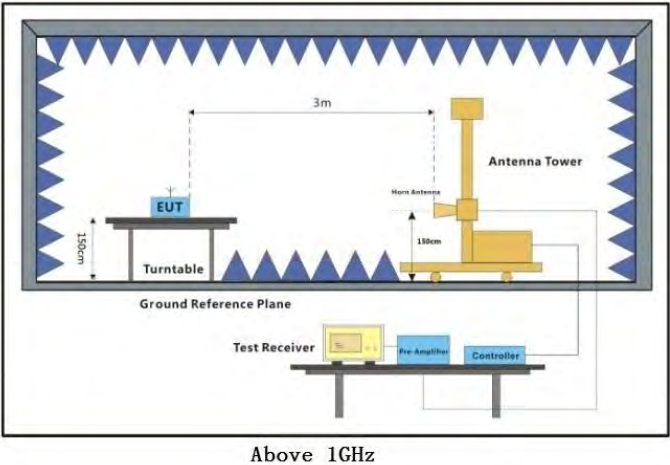


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7.9.3 Test Setup Diagram



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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 be test using two power supply (AC 120V for adapter & AC 120V for POE) and only record the worst data of DC 12V by adapter in the report.



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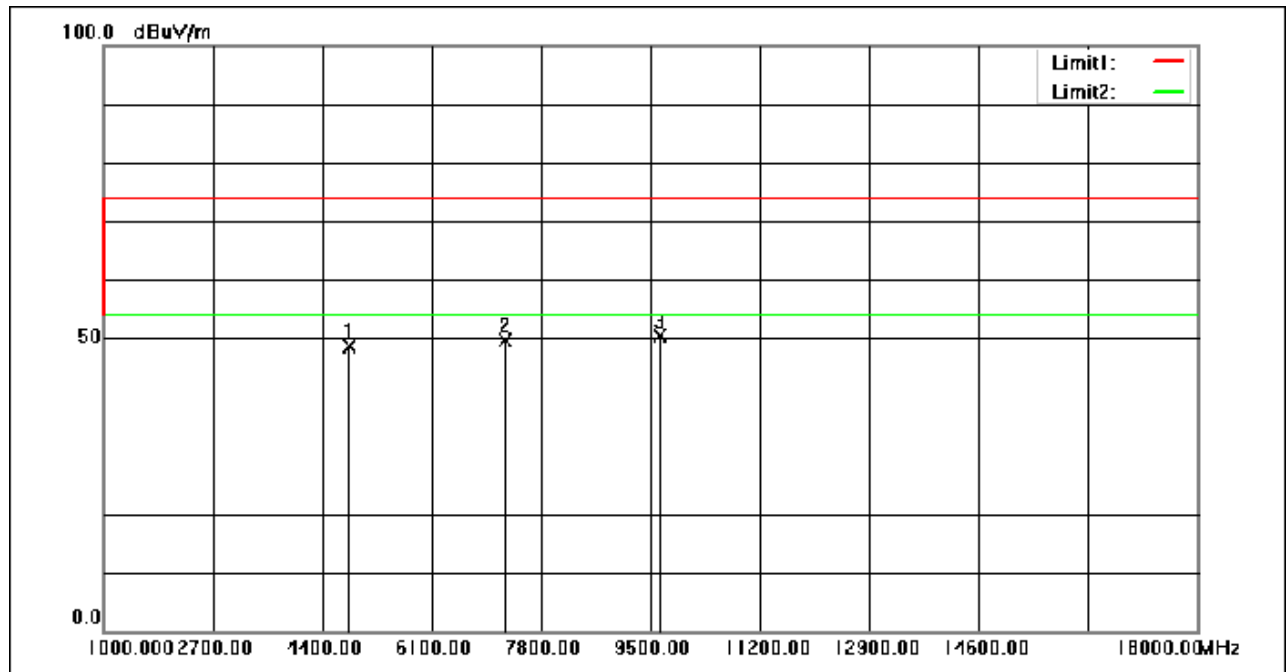
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.30	-8.78	48.52	74.00	-25.48	peak
2	7236.000	55.49	-5.86	49.63	74.00	-24.37	peak
3	9648.000	51.74	-1.31	50.43	74.00	-23.57	peak



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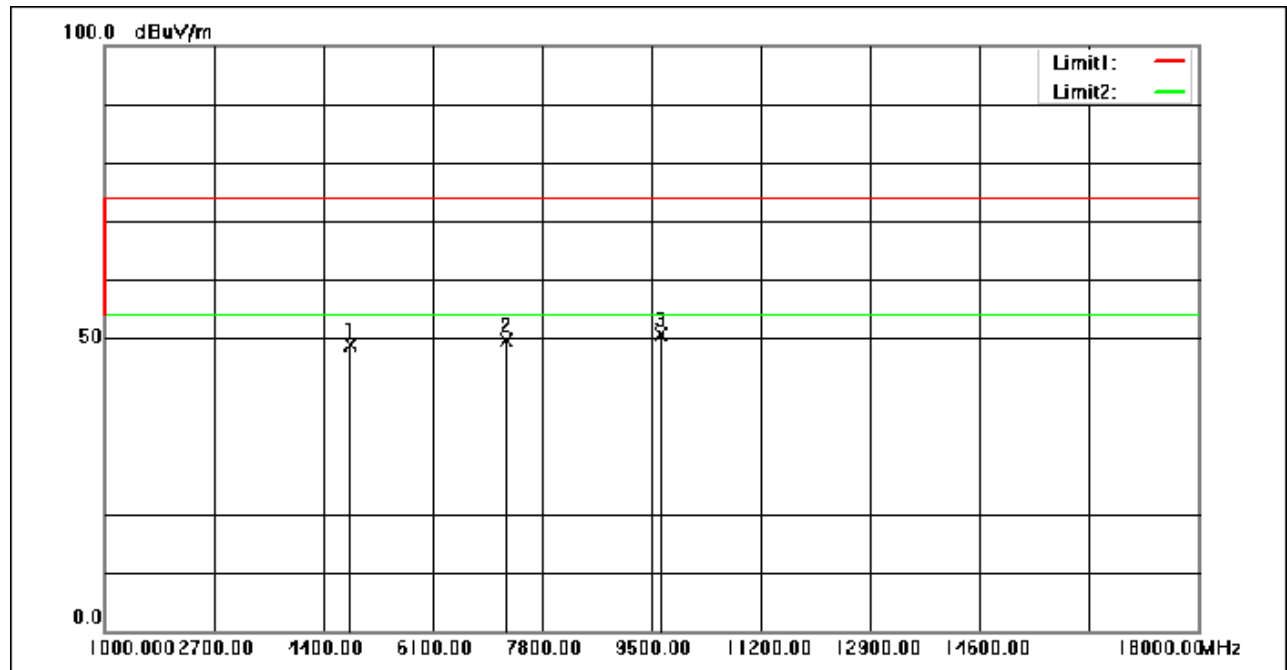
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11b; Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.57	-8.78	48.79	74.00	-25.21	peak
2	7236.000	55.46	-5.86	49.60	74.00	-24.40	peak
3	9648.000	52.03	-1.31	50.72	74.00	-23.28	peak



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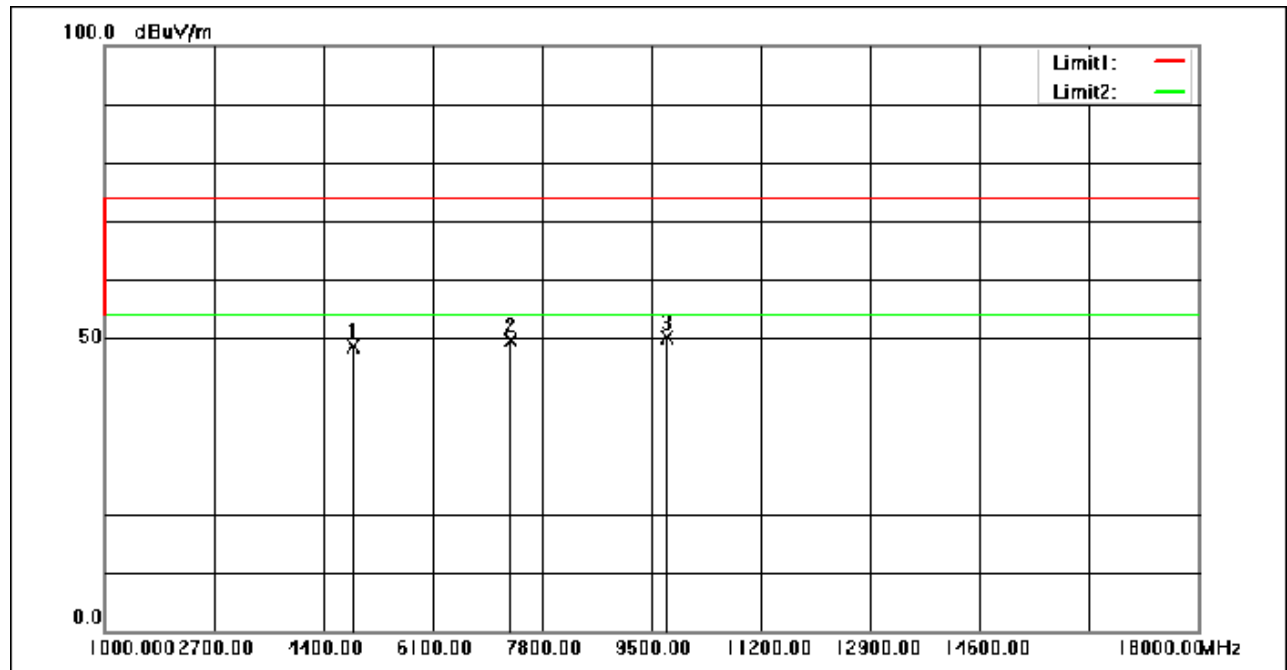
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.31	-8.61	48.70	74.00	-25.30	peak
2	7311.000	55.46	-5.78	49.68	74.00	-24.32	peak
3	9748.000	51.58	-1.43	50.15	74.00	-23.85	peak



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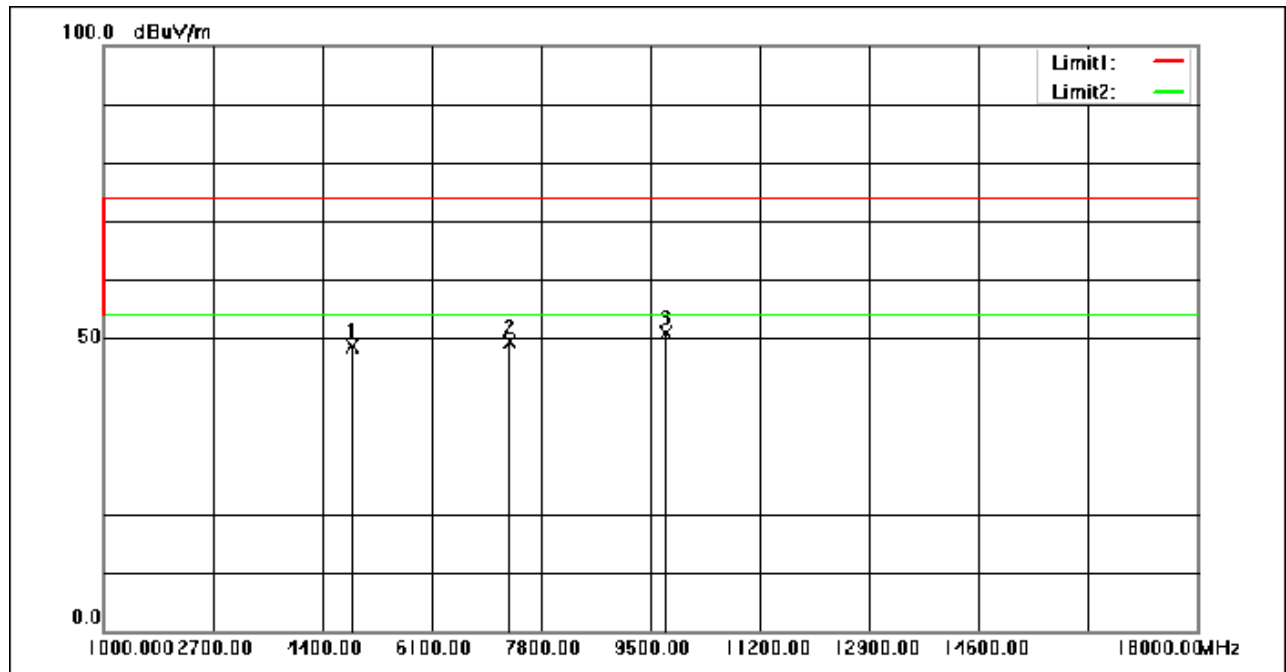
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	57.32	-8.61	48.71	74.00	-25.29	peak
2	7311.000	55.12	-5.78	49.34	74.00	-24.66	peak
3	9748.000	52.32	-1.43	50.89	74.00	-23.11	peak



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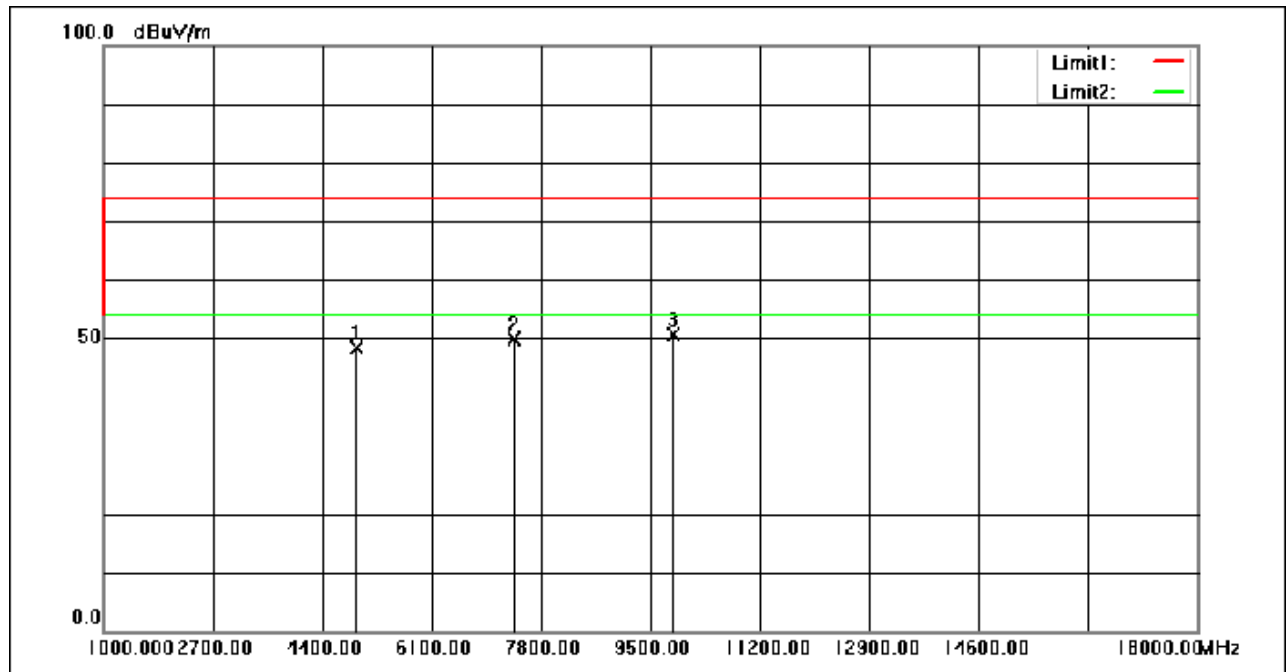
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	56.74	-8.44	48.30	74.00	-25.70	peak
2	7386.000	55.62	-5.69	49.93	74.00	-24.07	peak
3	9848.000	51.85	-1.27	50.58	74.00	-23.42	peak



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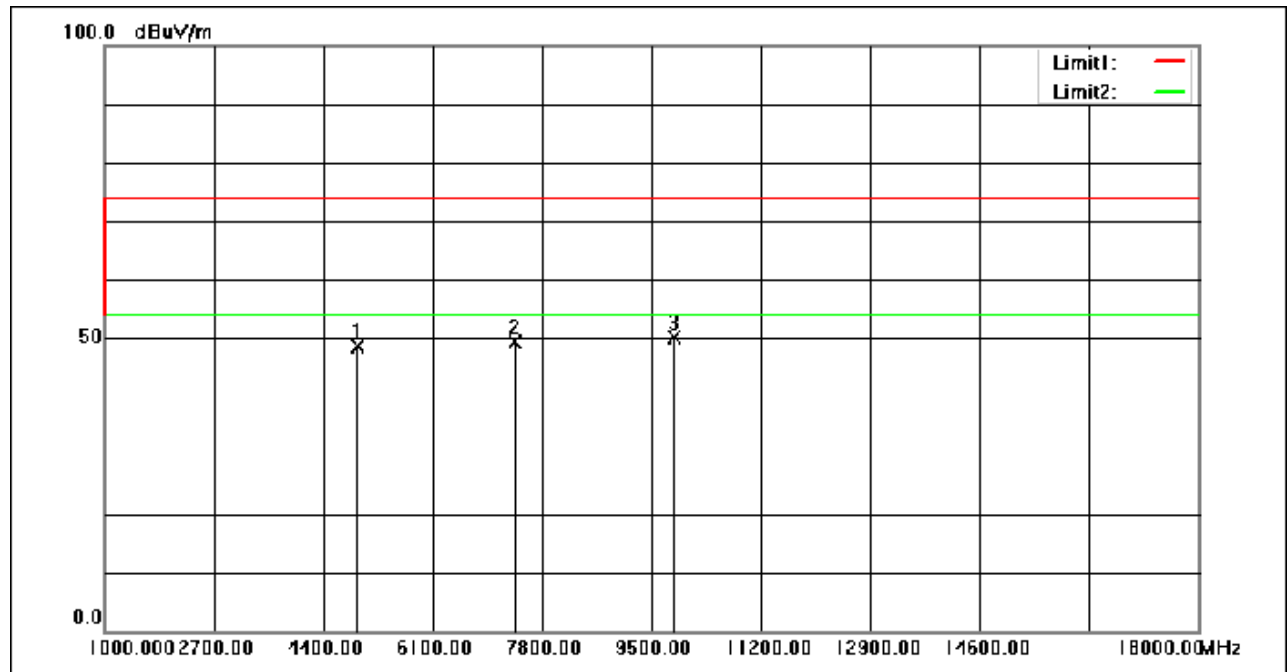
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Report No.: KSCR230400070301

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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	56.98	-8.44	48.54	74.00	-25.46	peak
2	7386.000	55.08	-5.69	49.39	74.00	-24.61	peak
3	9848.000	51.37	-1.27	50.10	74.00	-23.90	peak



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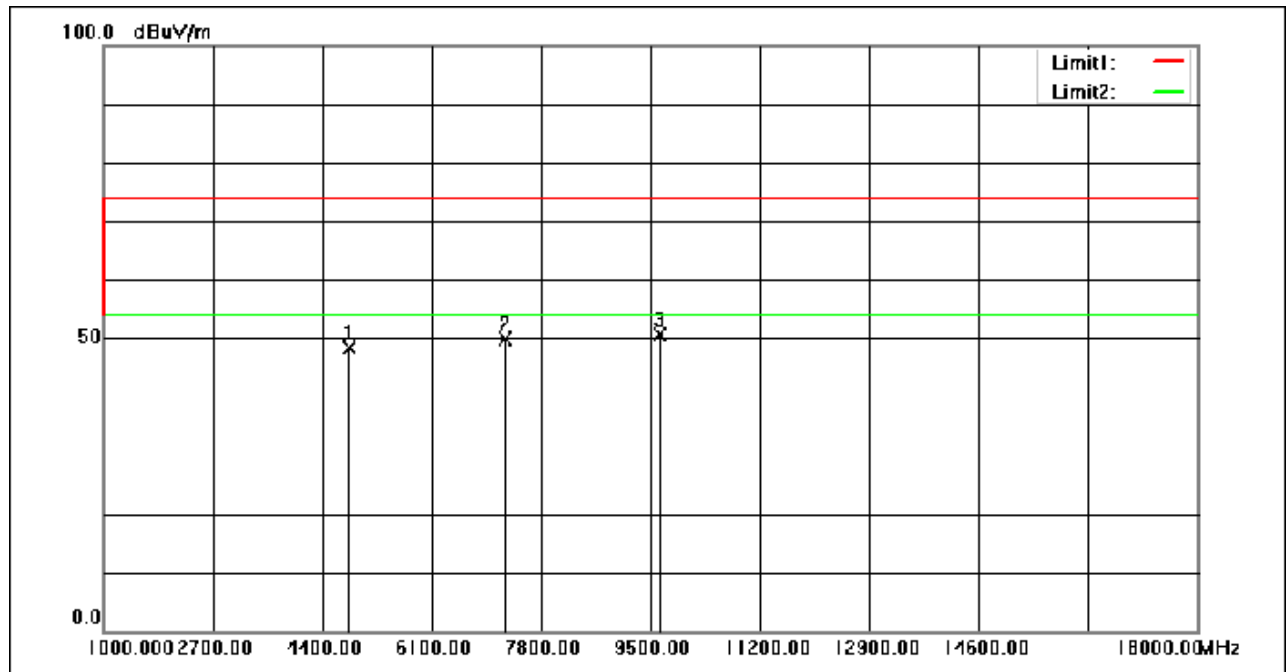
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	57.17	-8.78	48.39	74.00	-25.61	peak
2	7236.000	55.68	-5.86	49.82	74.00	-24.18	peak
3	9648.000	52.06	-1.31	50.75	74.00	-23.25	peak



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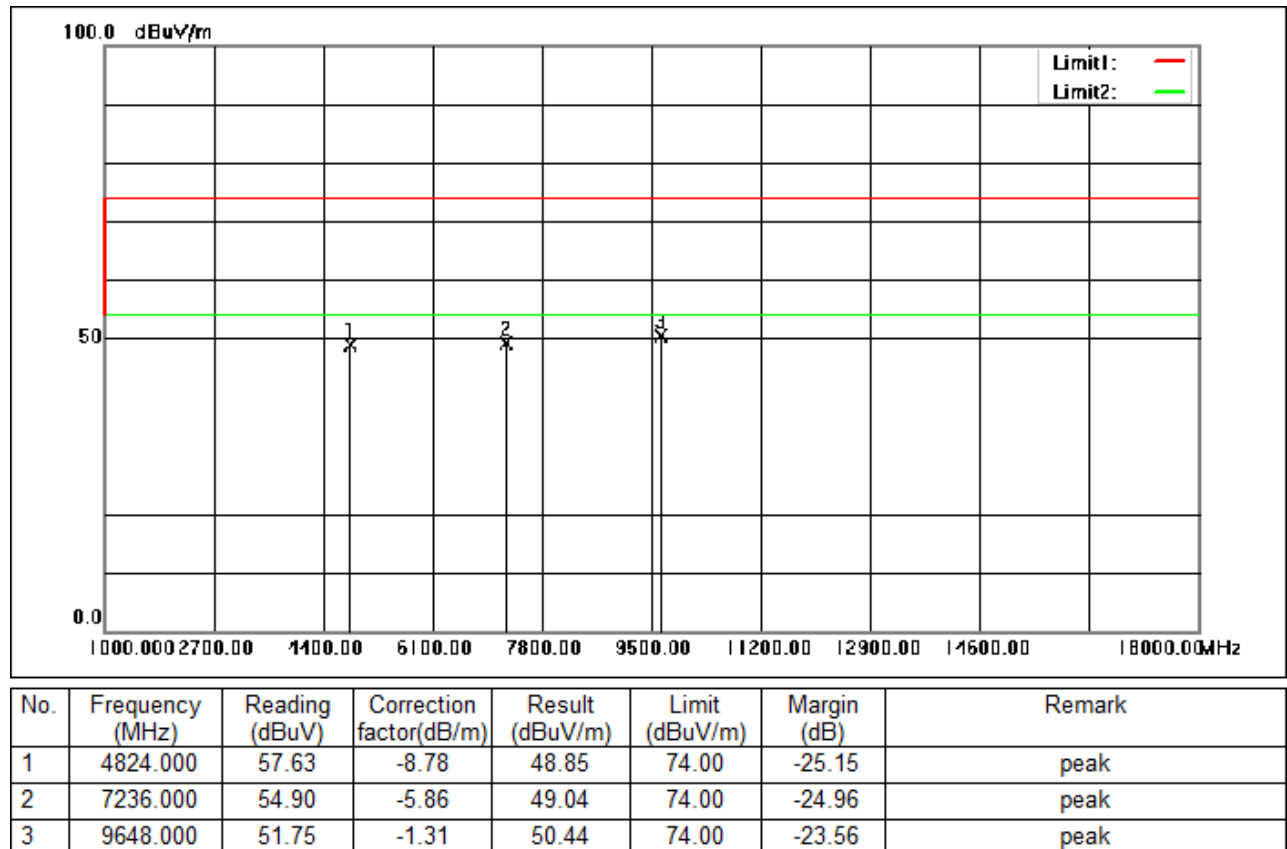
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11g; Bandwidth: 20MHz; Channel: Low



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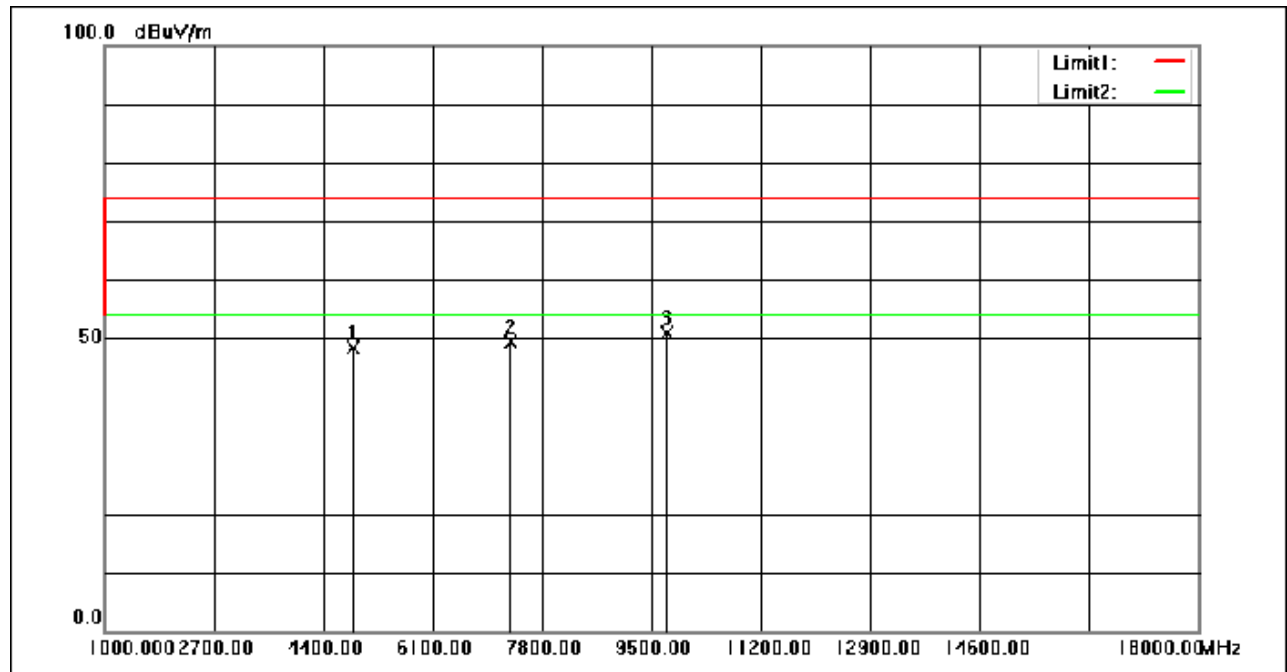
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Report No.: KSCR230400070301

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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	56.95	-8.61	48.34	74.00	-25.66	peak
2	7311.000	55.18	-5.78	49.40	74.00	-24.60	peak
3	9748.000	52.25	-1.43	50.82	74.00	-23.18	peak



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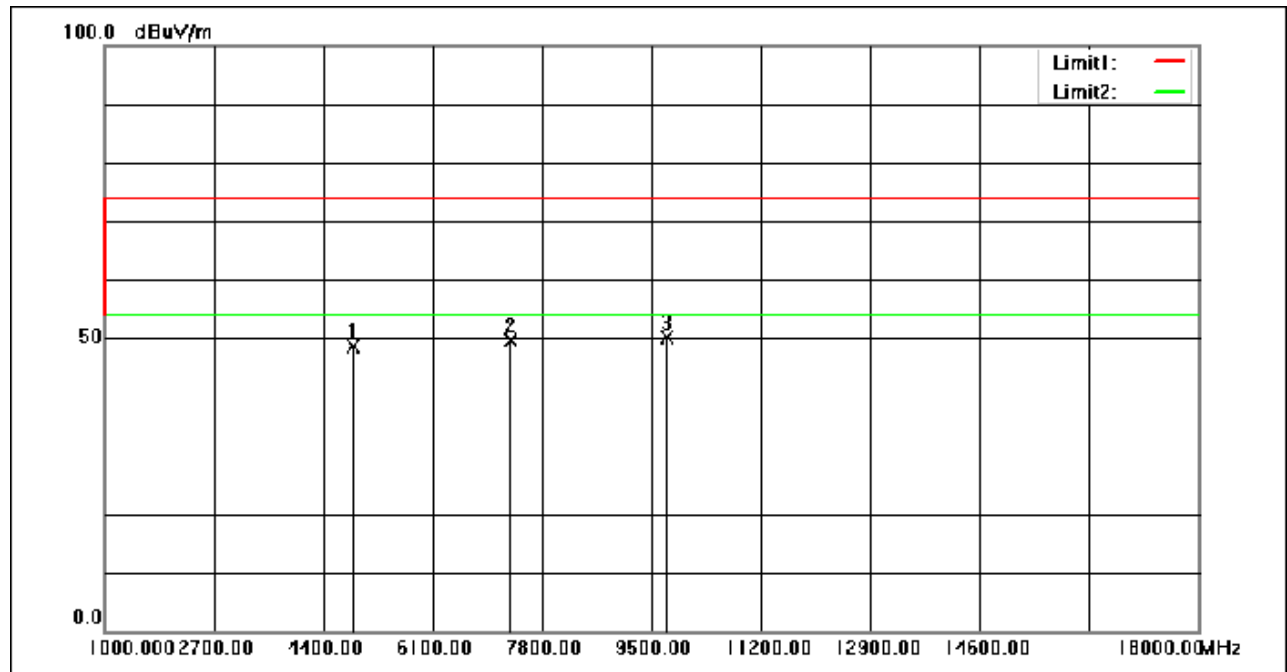
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Compliance Certification Services (Kunshan) Inc.

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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	57.15	-8.61	48.54	74.00	-25.46	peak
2	7311.000	55.39	-5.78	49.61	74.00	-24.39	peak
3	9748.000	51.68	-1.43	50.25	74.00	-23.75	peak



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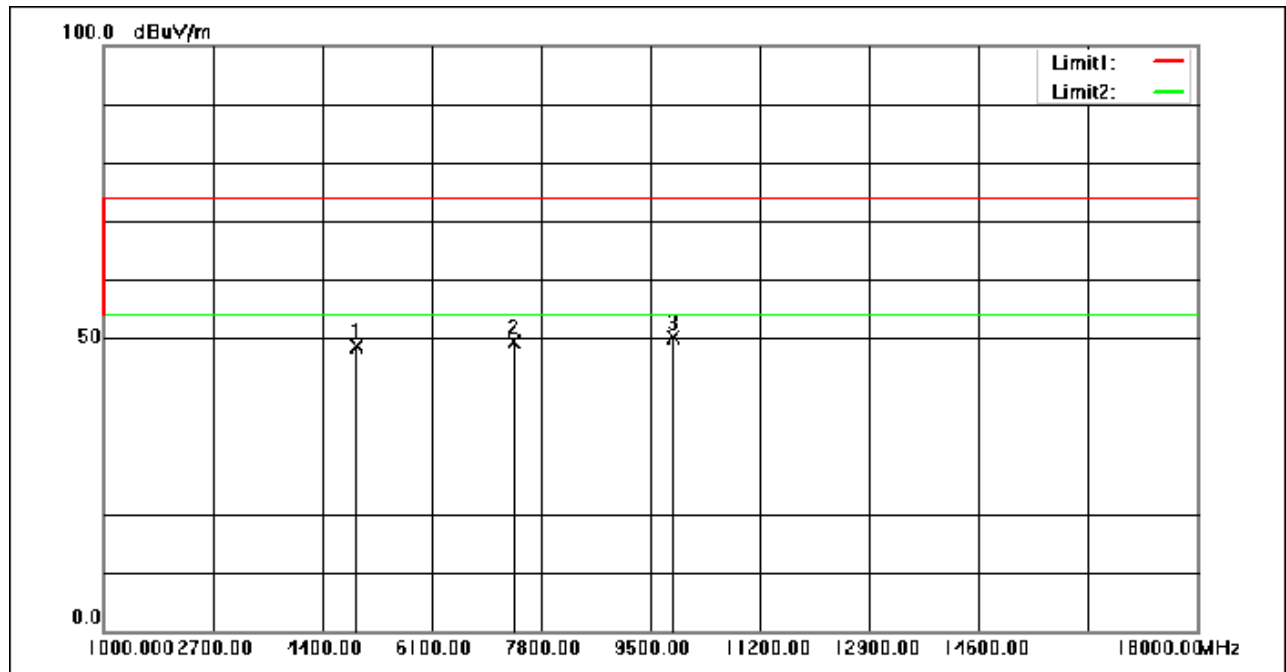
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	56.98	-8.44	48.54	74.00	-25.46	peak
2	7386.000	55.17	-5.69	49.48	74.00	-24.52	peak
3	9848.000	51.47	-1.27	50.20	74.00	-23.80	peak



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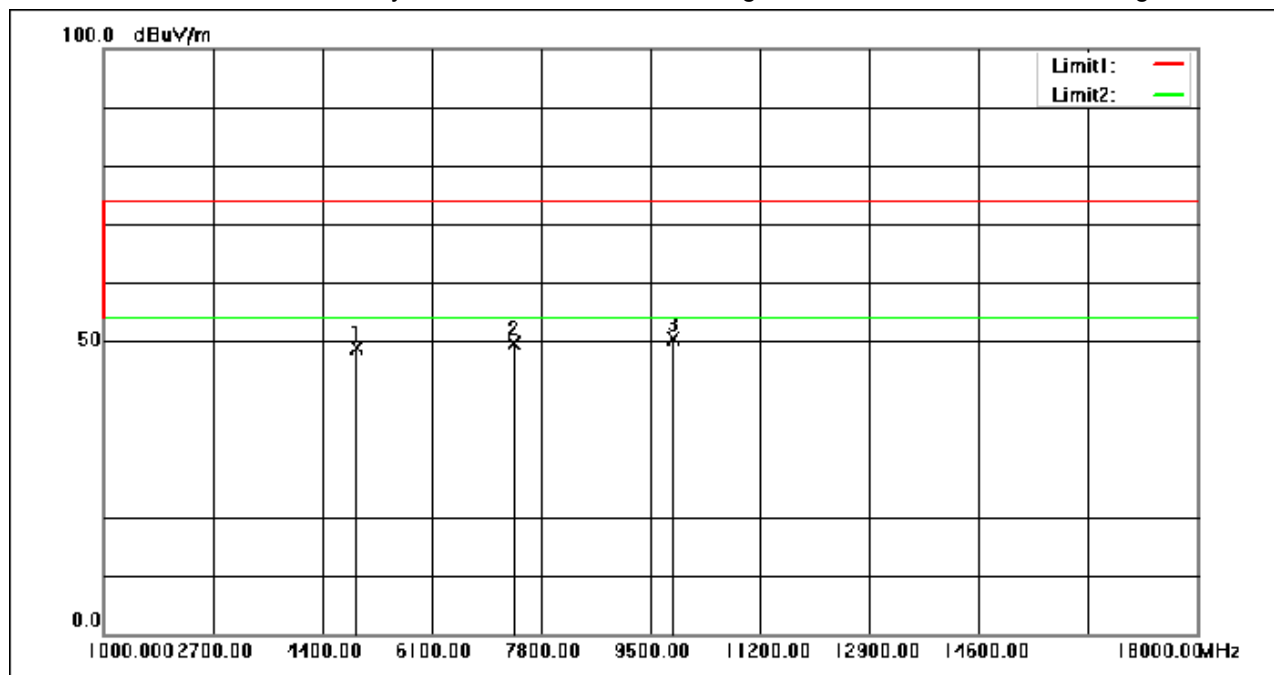
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11g; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	57.29	-8.44	48.85	74.00	-25.15	peak
2	7386.000	55.29	-5.69	49.60	74.00	-24.40	peak
3	9848.000	51.58	-1.27	50.31	74.00	-23.69	peak



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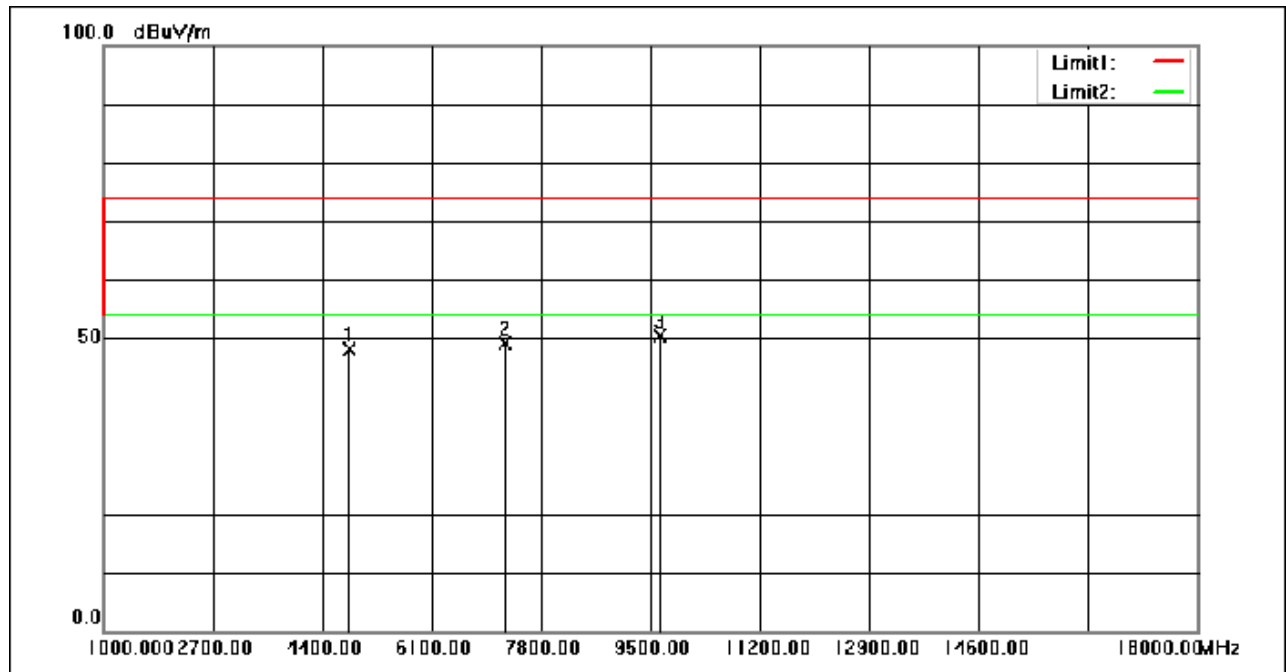
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Compliance Certification Services (Kunshan) Inc.

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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	56.96	-8.78	48.18	74.00	-25.82	peak
2	7236.000	55.08	-5.86	49.22	74.00	-24.78	peak
3	9648.000	51.65	-1.31	50.34	74.00	-23.66	peak



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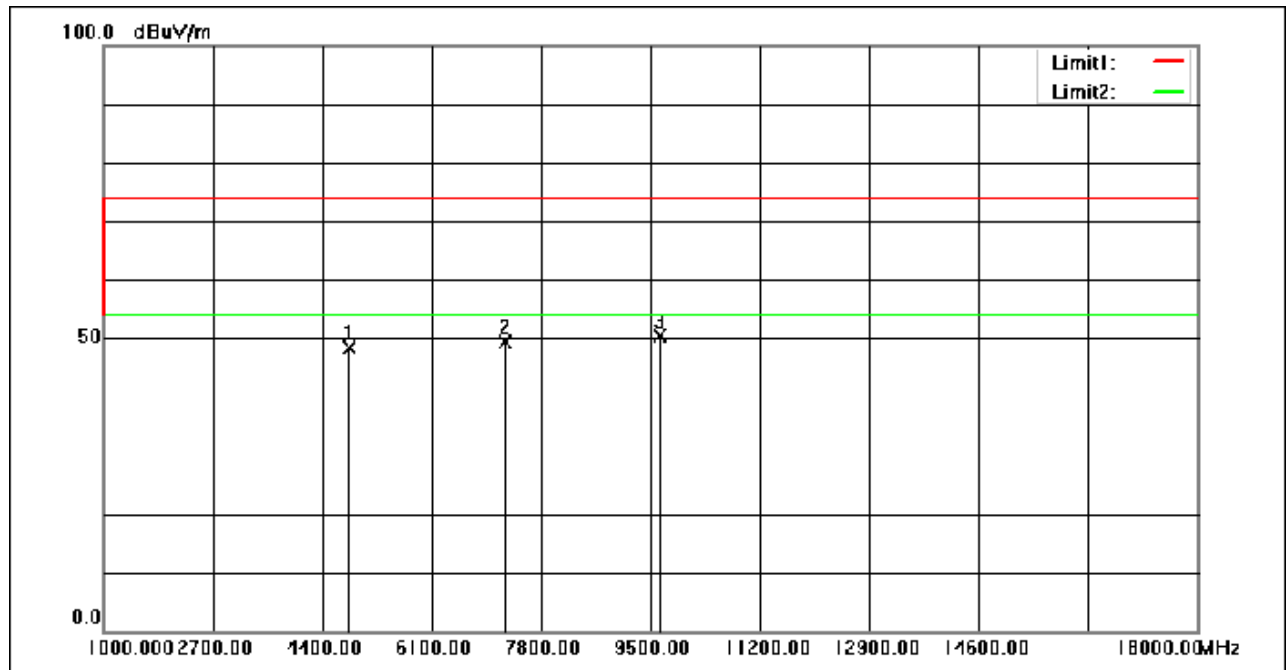
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.16	-8.78	48.38	74.00	-25.62	peak
2	7236.000	55.36	-5.86	49.50	74.00	-24.50	peak
3	9648.000	51.76	-1.31	50.45	74.00	-23.55	peak



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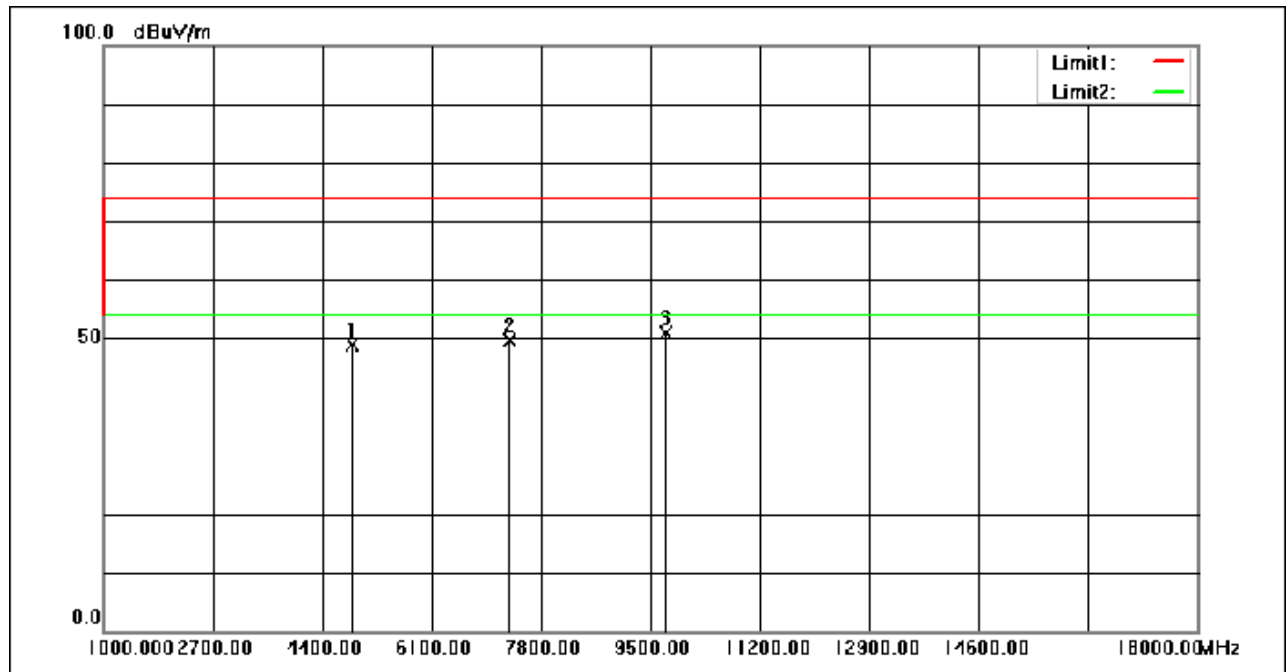
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.45	-8.61	48.84	74.00	-25.16	peak
2	7311.000	55.53	-5.78	49.75	74.00	-24.25	peak
3	9748.000	52.23	-1.43	50.80	74.00	-23.20	peak



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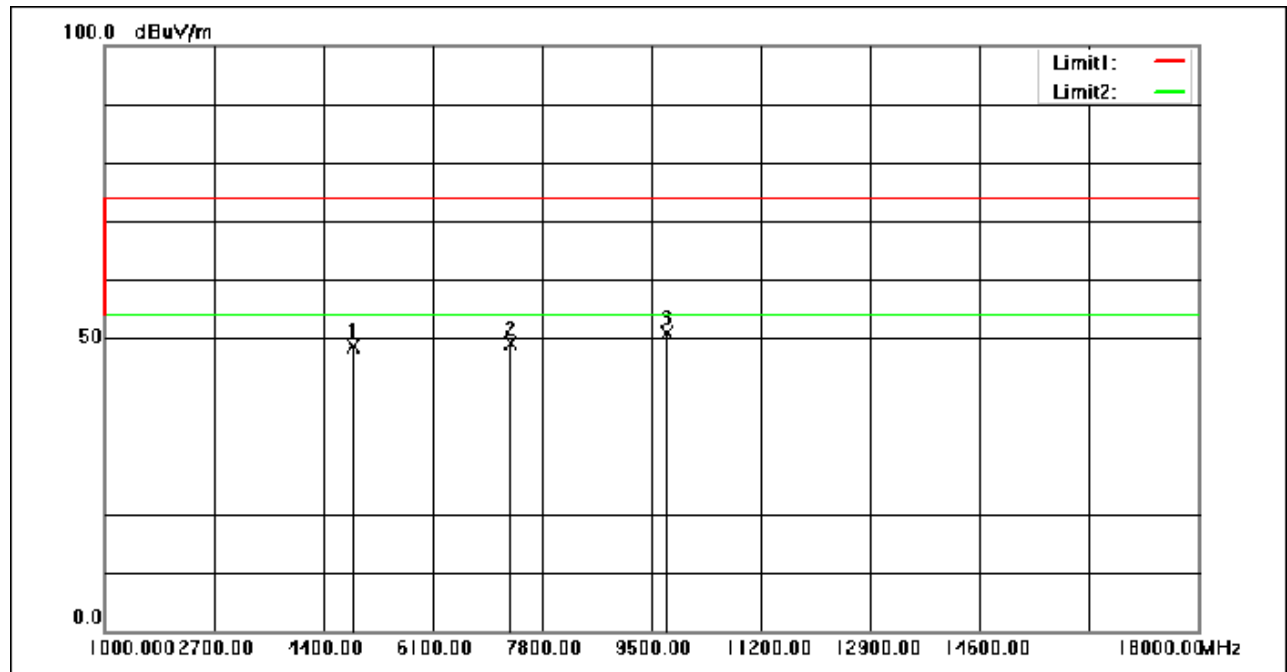
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	57.15	-8.61	48.54	74.00	-25.46	peak
2	7311.000	54.93	-5.78	49.15	74.00	-24.85	peak
3	9748.000	52.29	-1.43	50.86	74.00	-23.14	peak



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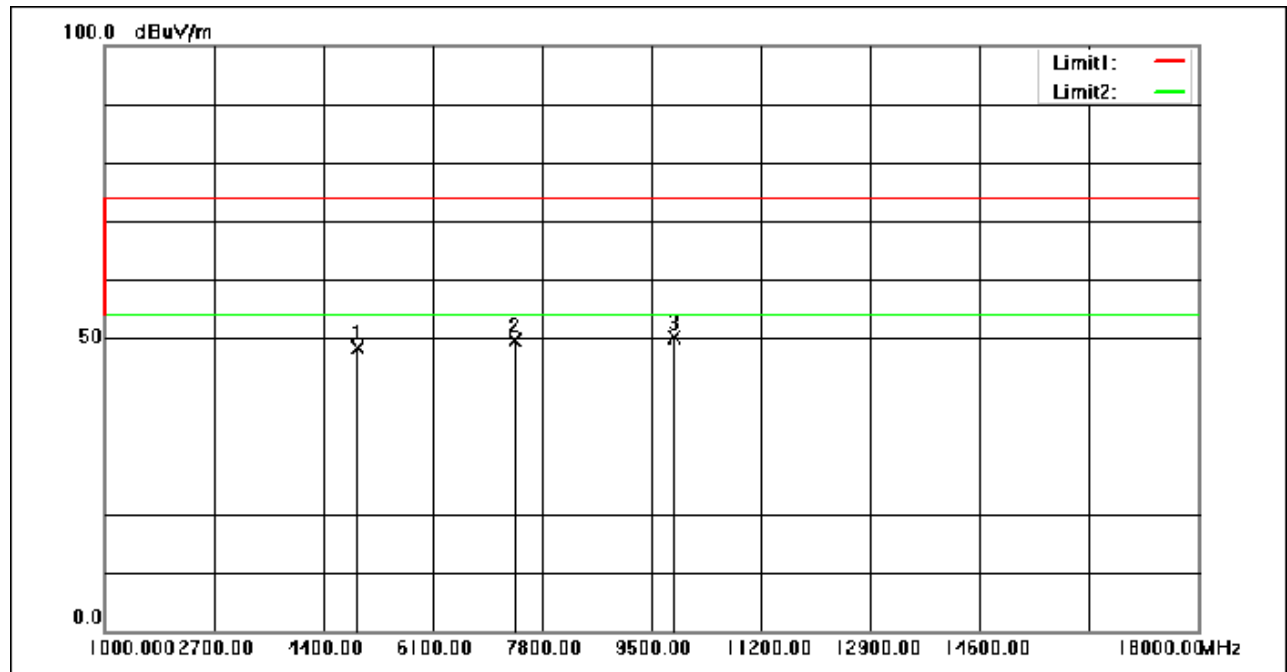
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	56.83	-8.44	48.39	74.00	-25.61	peak
2	7386.000	55.27	-5.69	49.58	74.00	-24.42	peak
3	9848.000	51.33	-1.27	50.06	74.00	-23.94	peak



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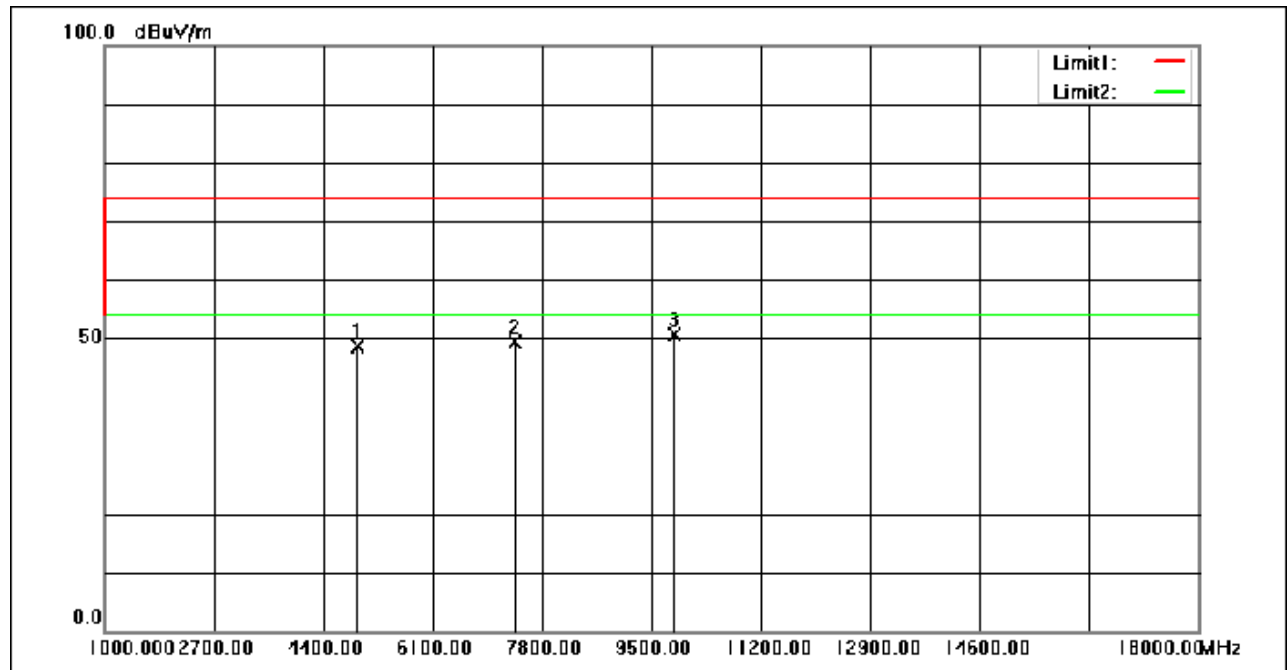
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Compliance Certification Services (Kunshan) Inc.

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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	57.03	-8.44	48.59	74.00	-25.41	peak
2	7386.000	55.05	-5.69	49.36	74.00	-24.64	peak
3	9848.000	51.89	-1.27	50.62	74.00	-23.38	peak



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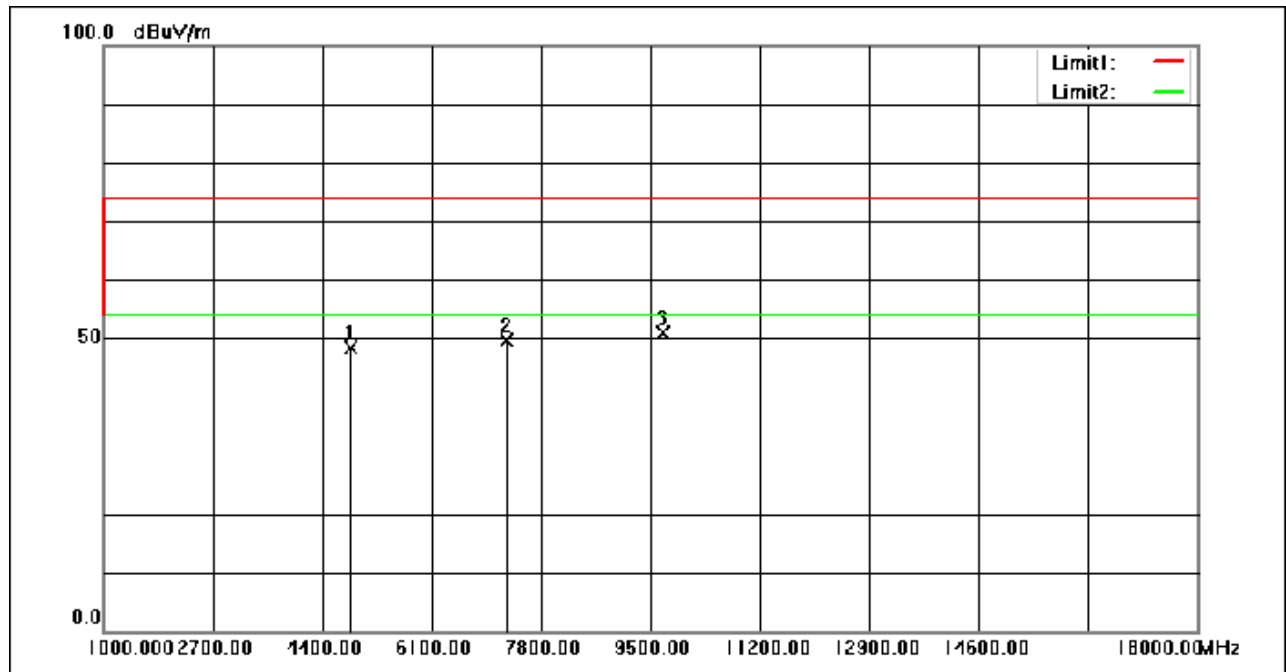
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	57.13	-8.71	48.42	74.00	-25.58	peak
2	7266.000	55.43	-5.83	49.60	74.00	-24.40	peak
3	9688.000	52.28	-1.36	50.92	74.00	-23.08	peak



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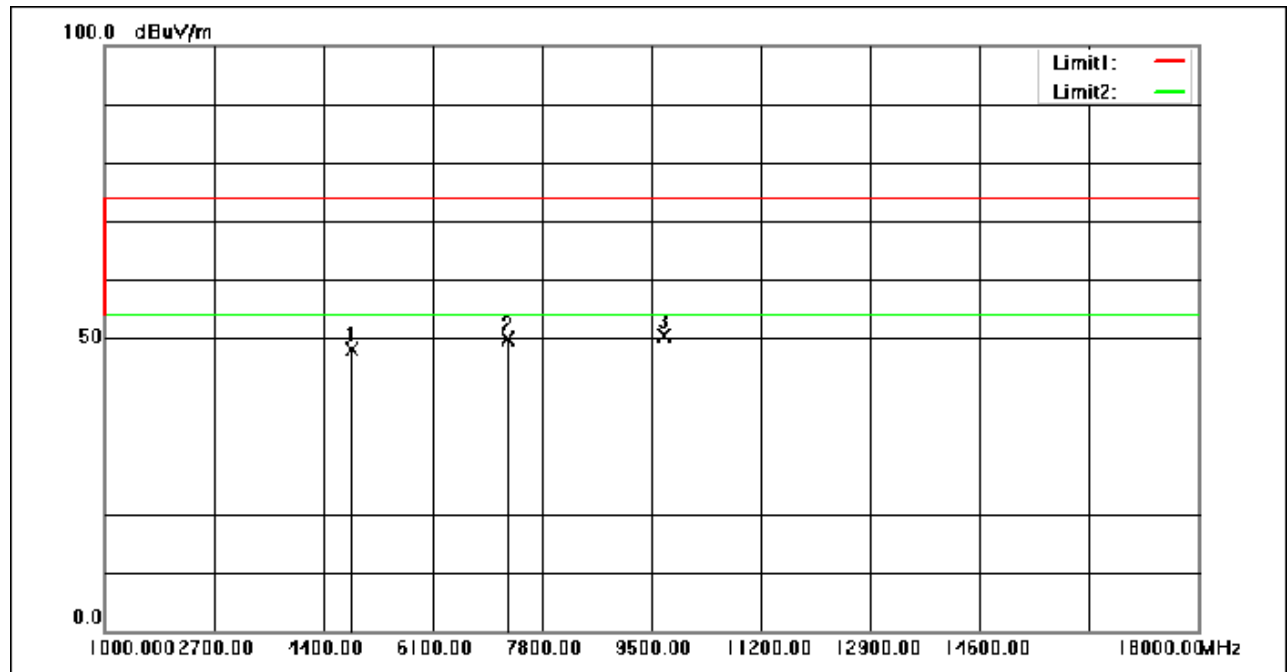
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	56.90	-8.71	48.19	74.00	-25.81	peak
2	7266.000	55.68	-5.83	49.85	74.00	-24.15	peak
3	9688.000	51.62	-1.36	50.26	74.00	-23.74	peak



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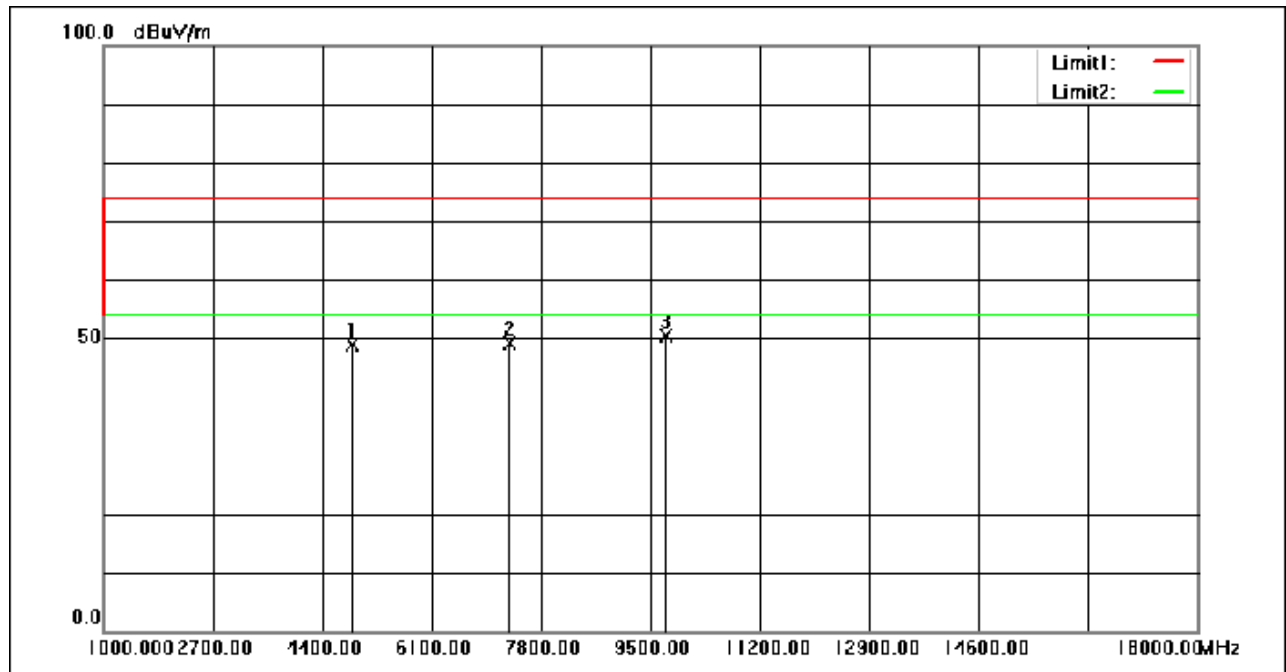
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	57.57	-8.61	48.96	74.00	-25.04	peak
2	7311.000	54.91	-5.78	49.13	74.00	-24.87	peak
3	9748.000	51.93	-1.43	50.50	74.00	-23.50	peak



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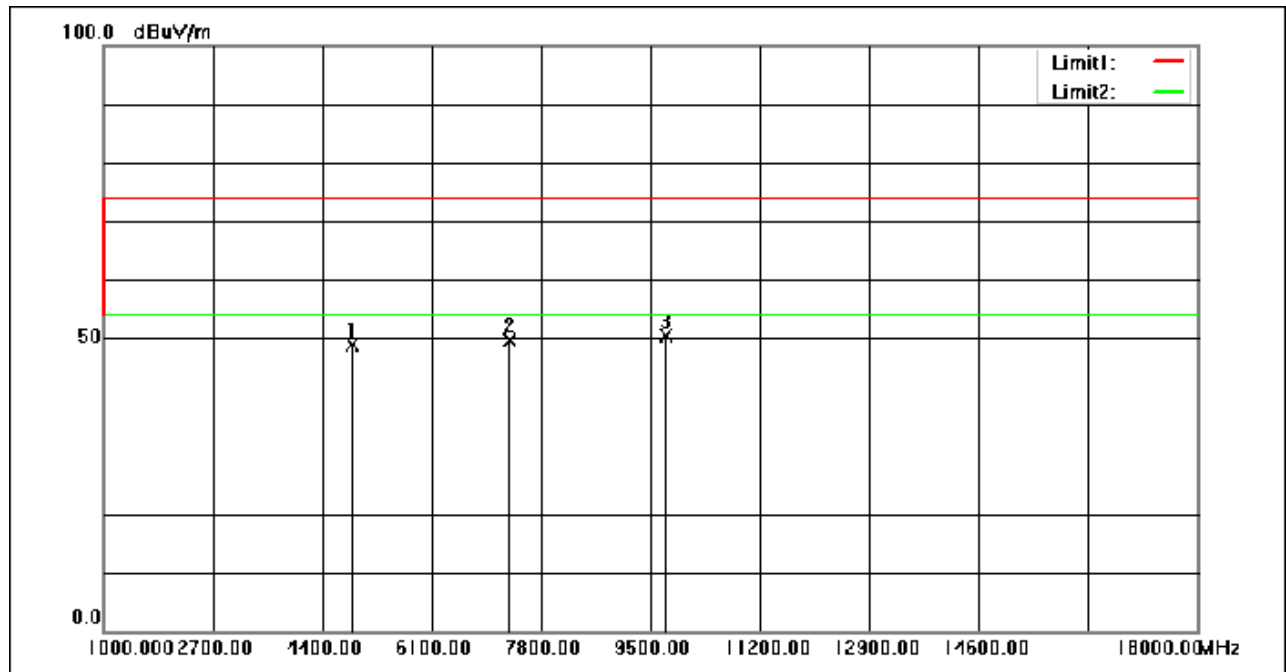
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Compliance Certification Services (Kunshan) Inc.

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.51	-8.61	48.90	74.00	-25.10	peak
2	7311.000	55.42	-5.78	49.64	74.00	-24.36	peak
3	9748.000	51.85	-1.43	50.42	74.00	-23.58	peak



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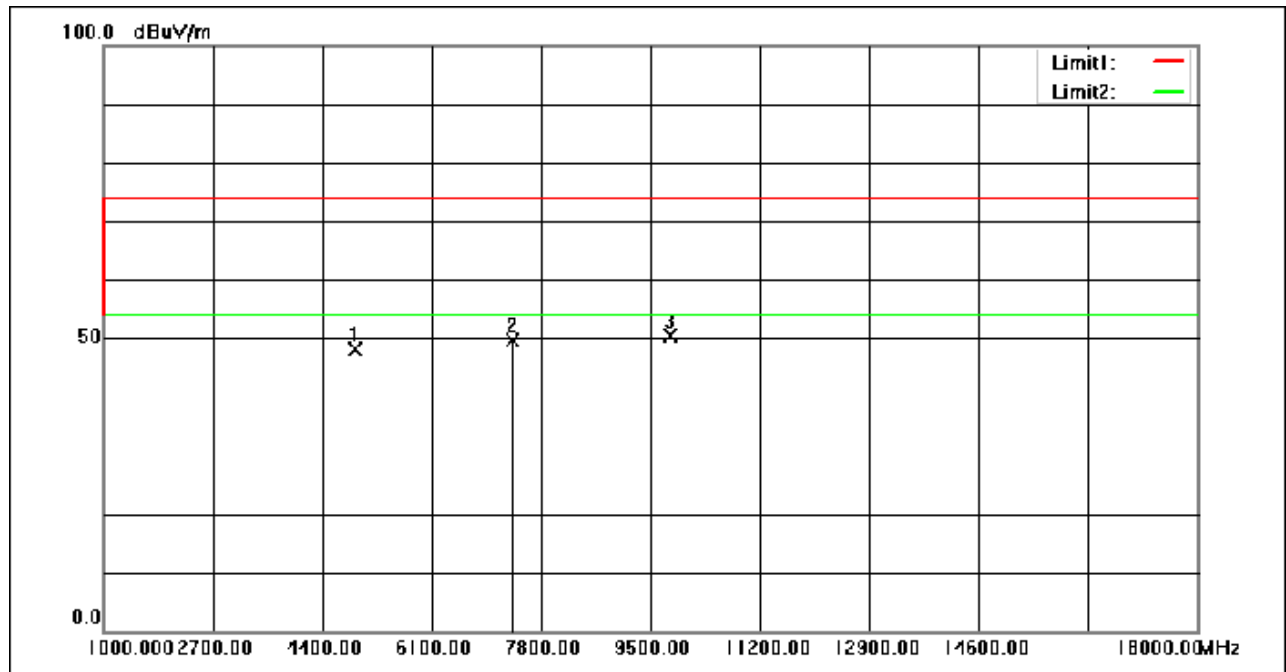
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Compliance Certification Services (Kunshan) Inc.

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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	56.66	-8.51	48.15	74.00	-25.85	peak
2	7356.000	55.37	-5.73	49.64	74.00	-24.36	peak
3	9808.000	51.82	-1.47	50.35	74.00	-23.65	peak



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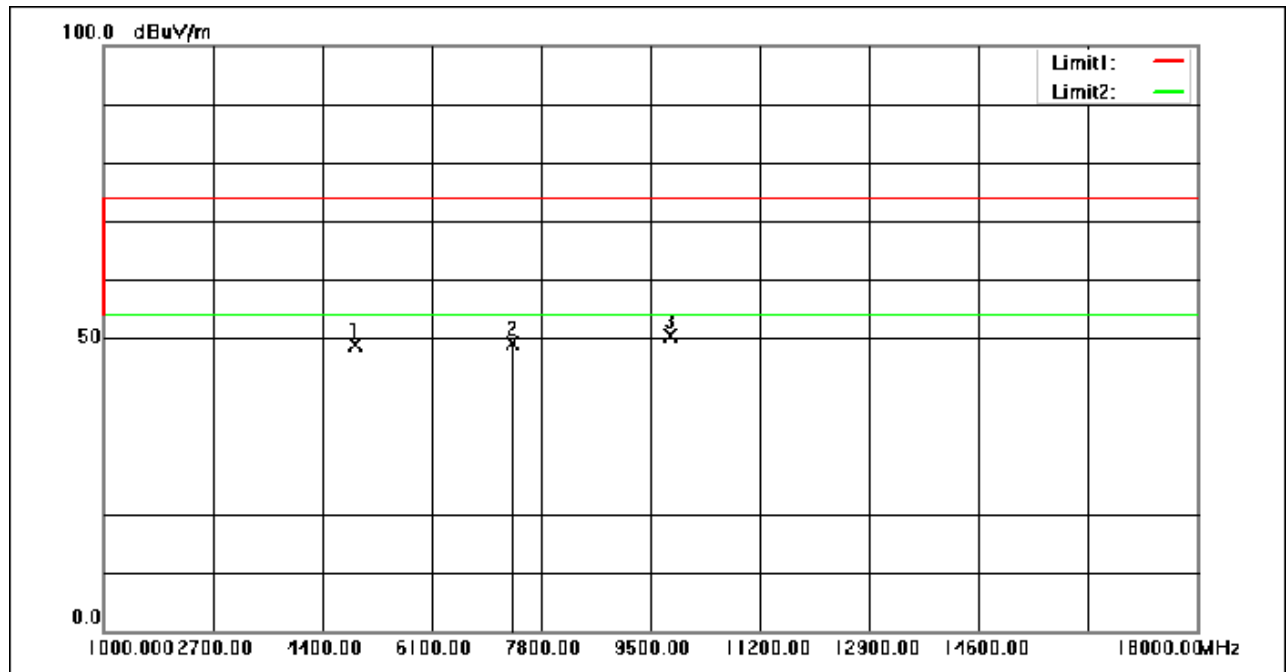
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Compliance Certification Services (Kunshan) Inc.

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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	57.31	-8.51	48.80	74.00	-25.20	peak
2	7356.000	54.90	-5.73	49.17	74.00	-24.83	peak
3	9808.000	51.85	-1.47	50.38	74.00	-23.62	peak



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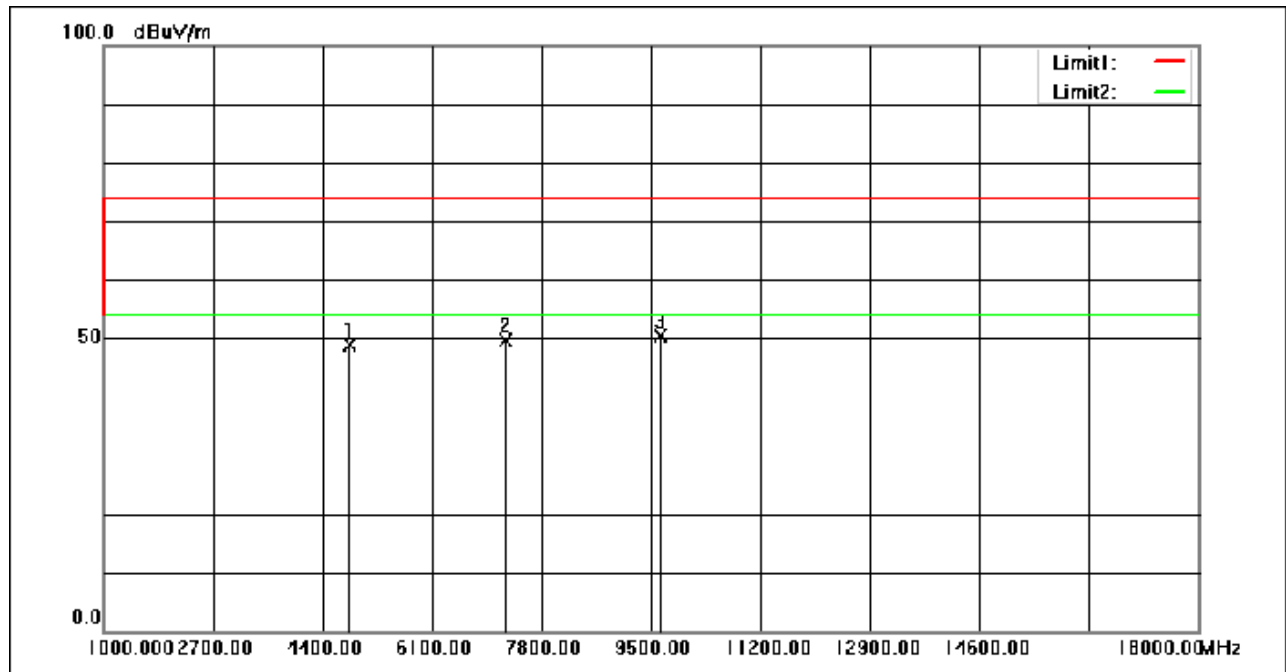
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Report No.: KSCR230400070301

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Test Mode: 01; 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	57.55	-8.78	48.77	74.00	-25.23	peak
2	7236.000	55.57	-5.86	49.71	74.00	-24.29	peak
3	9648.000	51.60	-1.31	50.29	74.00	-23.71	peak



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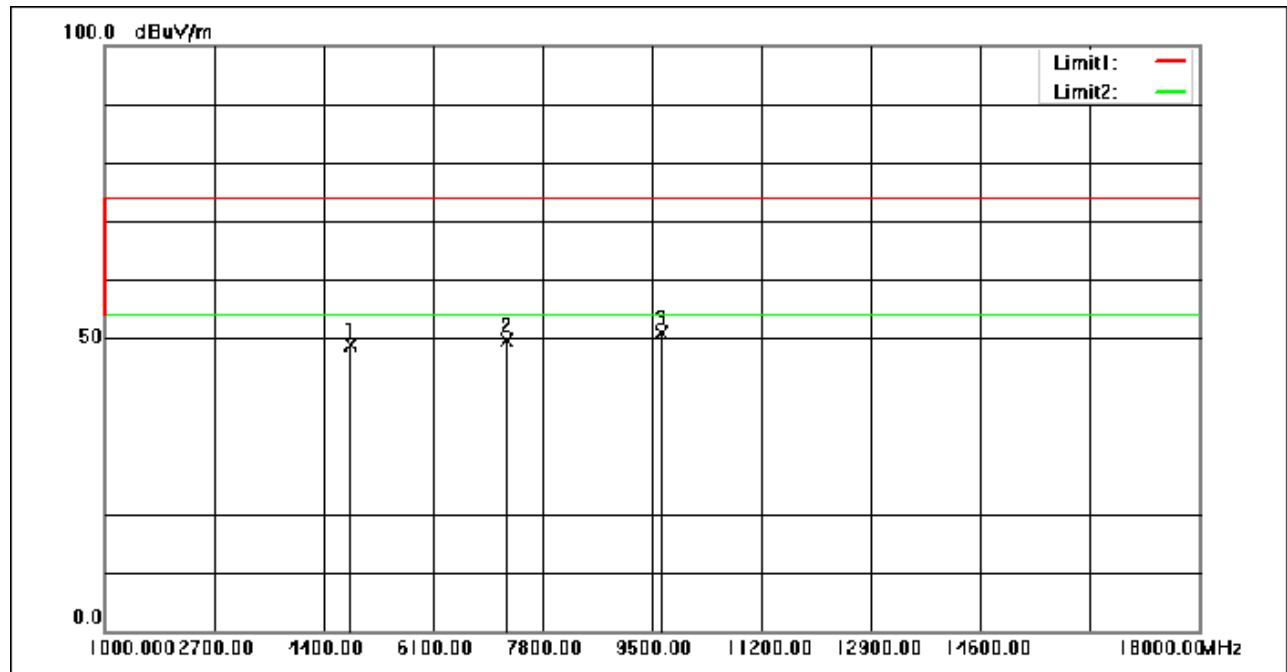
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.63	-8.78	48.85	74.00	-25.15	peak
2	7236.000	55.37	-5.86	49.51	74.00	-24.49	peak
3	9648.000	52.10	-1.31	50.79	74.00	-23.21	peak



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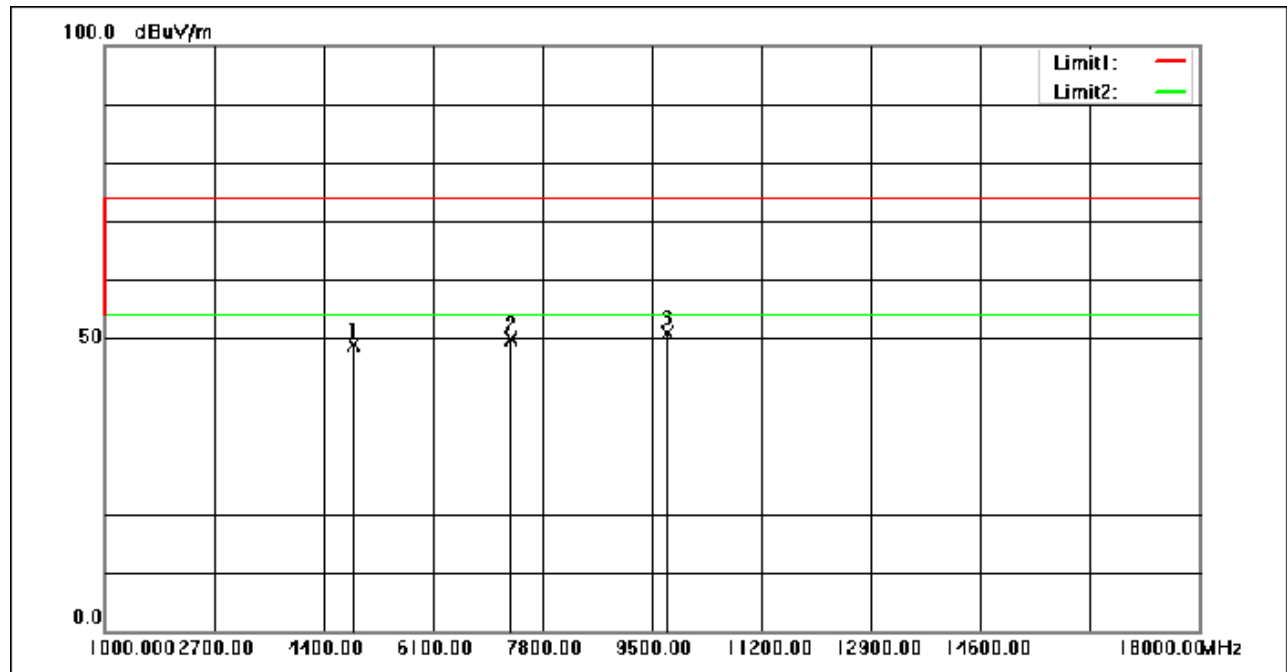
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.58	-8.61	48.97	74.00	-25.03	peak
2	7311.000	55.64	-5.78	49.86	74.00	-24.14	peak
3	9748.000	52.20	-1.43	50.77	74.00	-23.23	peak



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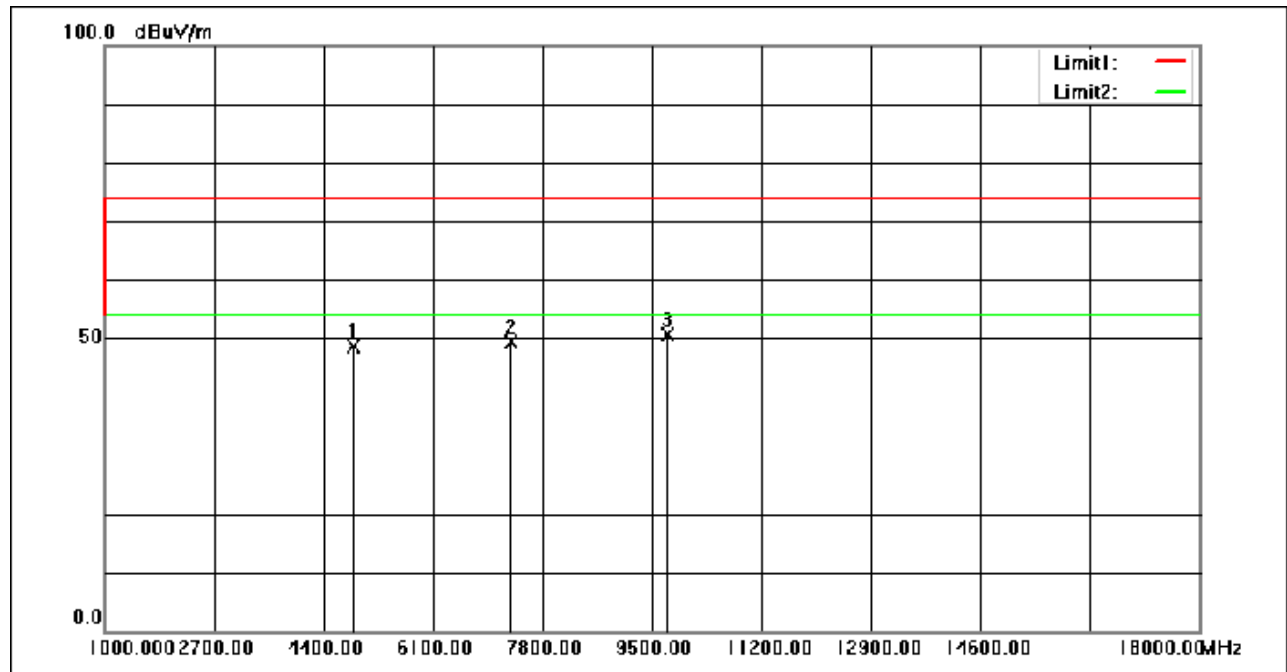
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

Page: 102 of 177

Test Mode: 01; 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	55.25	-5.78	49.47	74.00	-24.53	peak
3	9748.000	52.03	-1.43	50.60	74.00	-23.40	peak



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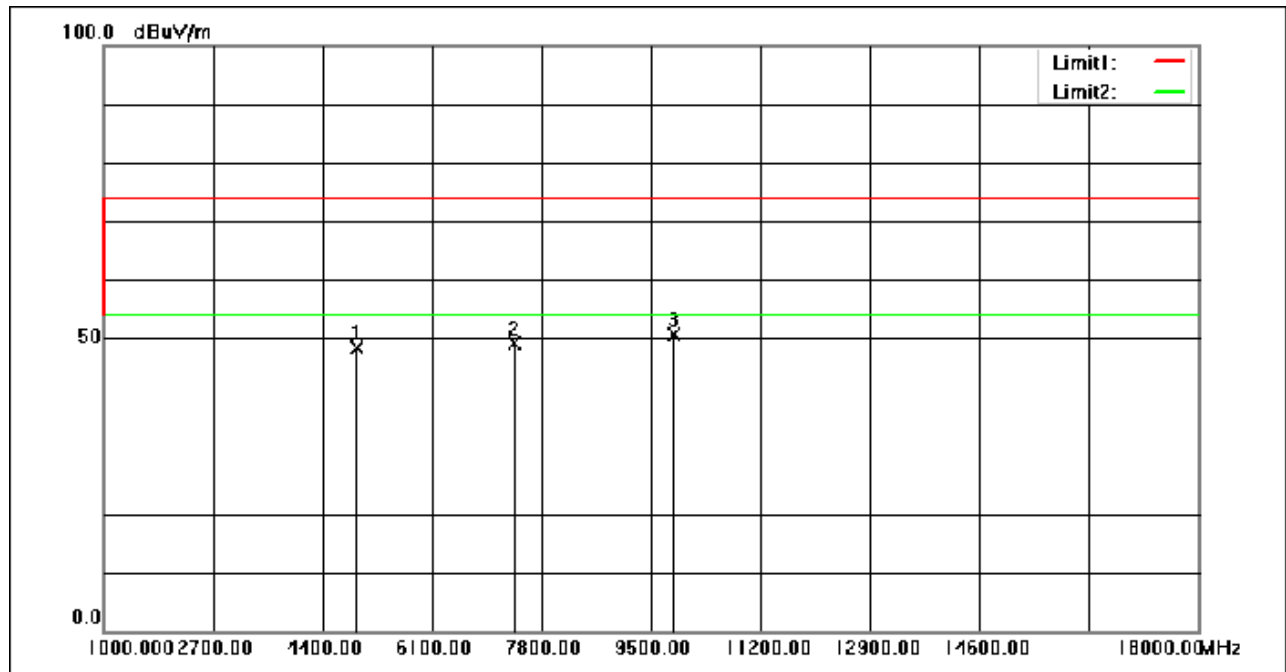
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	56.76	-8.44	48.32	74.00	-25.68	peak
2	7386.000	54.87	-5.69	49.18	74.00	-24.82	peak
3	9848.000	51.82	-1.27	50.55	74.00	-23.45	peak



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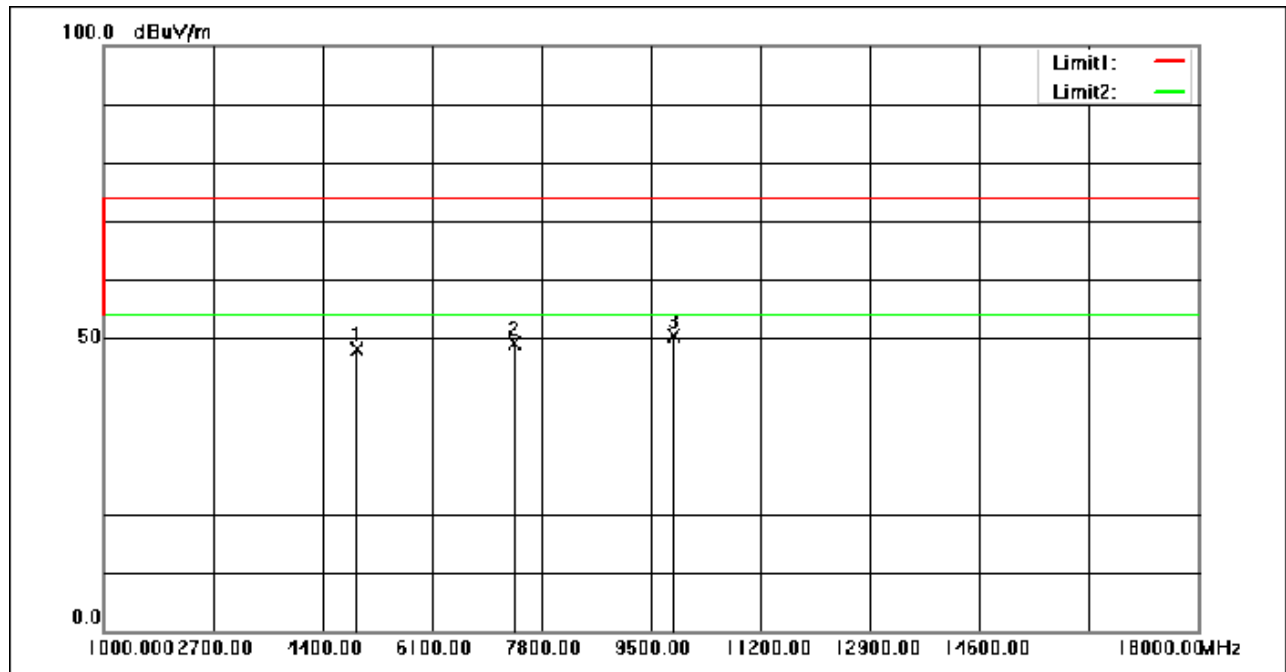
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	56.65	-8.44	48.21	74.00	-25.79	peak
2	7386.000	54.74	-5.69	49.05	74.00	-24.95	peak
3	9848.000	51.75	-1.27	50.48	74.00	-23.52	peak



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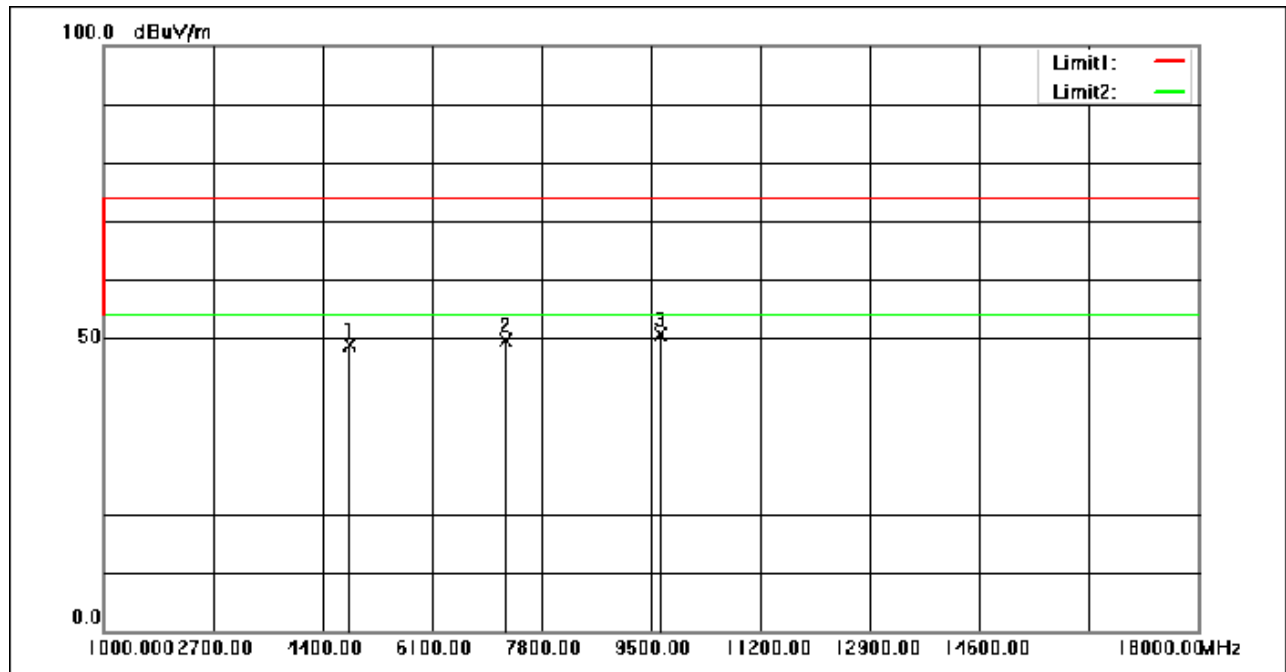
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	57.57	-8.78	48.79	74.00	-25.21	peak
2	7236.000	55.55	-5.86	49.69	74.00	-24.31	peak
3	9648.000	51.92	-1.31	50.61	74.00	-23.39	peak



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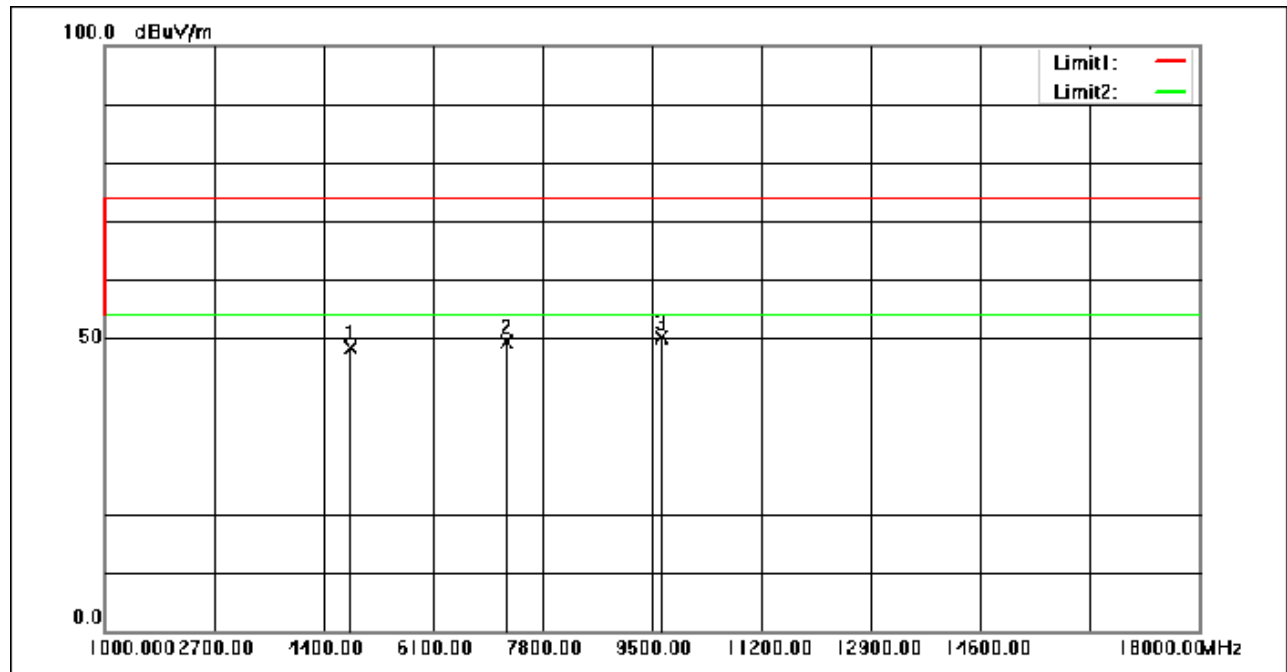
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	57.28	-8.78	48.50	74.00	-25.50	peak
2	7236.000	55.15	-5.86	49.29	74.00	-24.71	peak
3	9648.000	51.32	-1.31	50.01	74.00	-23.99	peak



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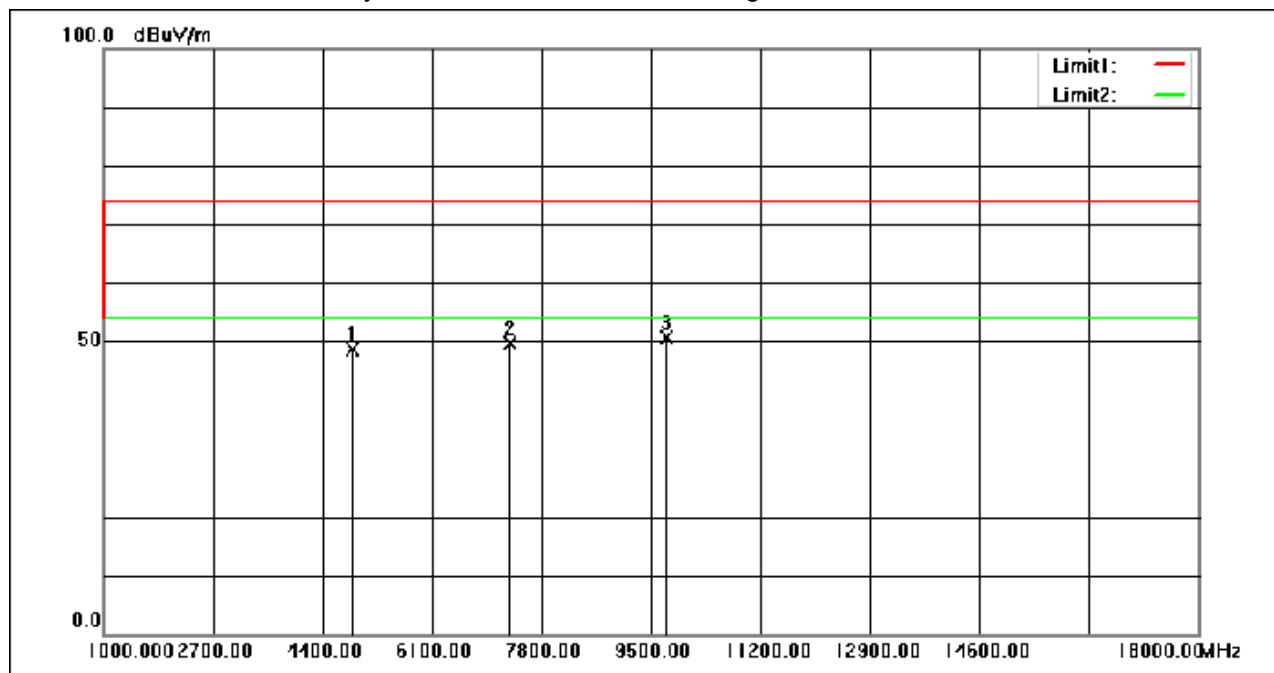
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.13	-8.61	48.52	74.00	-25.48	peak
2	7311.000	55.39	-5.78	49.61	74.00	-24.39	peak
3	9748.000	52.10	-1.43	50.67	74.00	-23.33	peak



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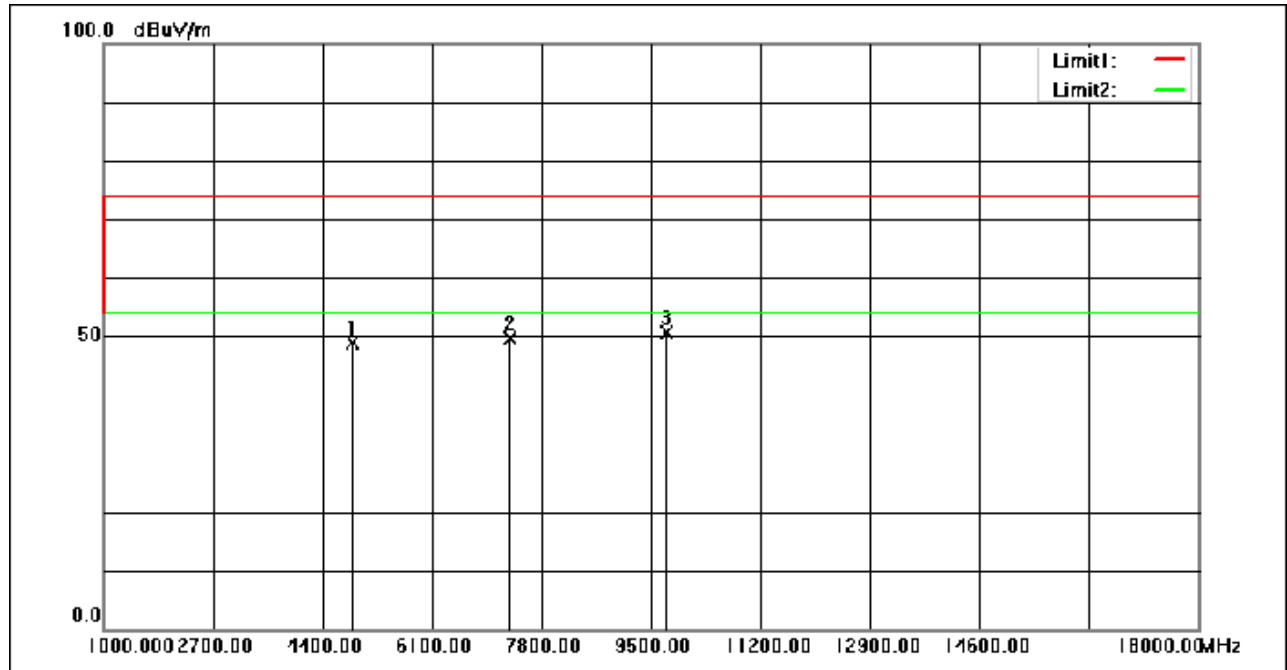
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	57.54	-8.61	48.93	74.00	-25.07	peak
2	7311.000	55.38	-5.78	49.60	74.00	-24.40	peak
3	9748.000	52.05	-1.43	50.62	74.00	-23.38	peak



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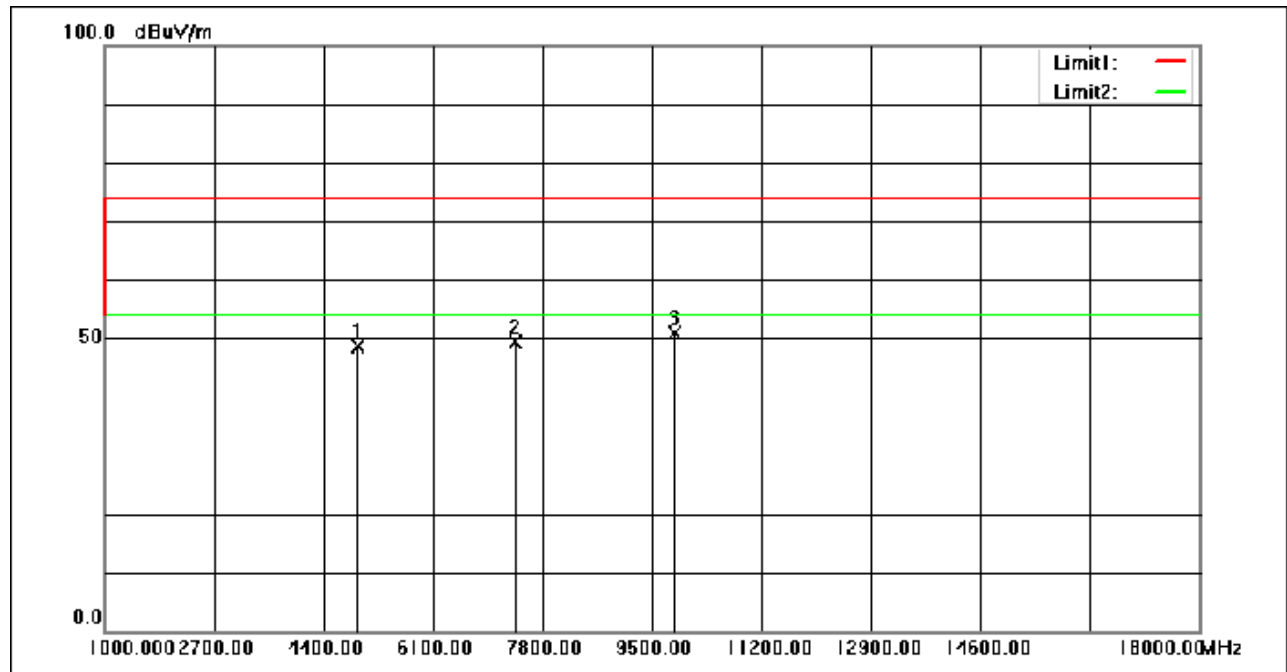
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	57.03	-8.44	48.59	74.00	-25.41	peak
2	7386.000	55.09	-5.69	49.40	74.00	-24.60	peak
3	9848.000	52.19	-1.27	50.92	74.00	-23.08	peak



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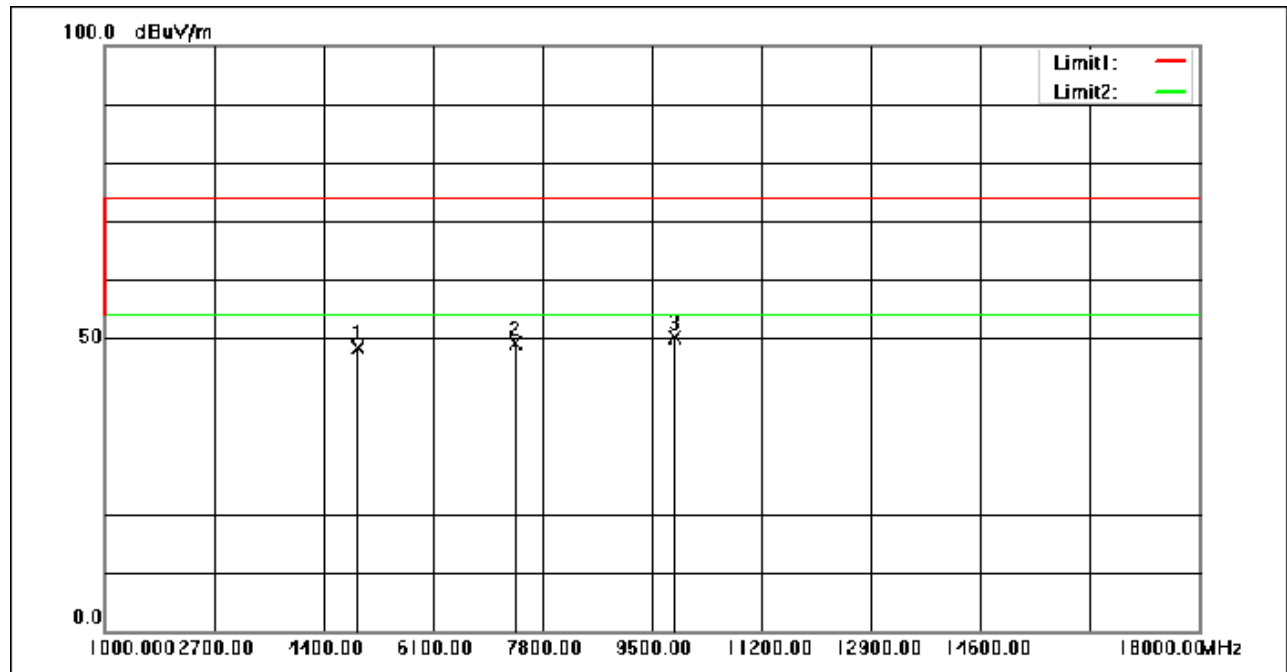
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	56.82	-8.44	48.38	74.00	-25.62	peak
2	7386.000	54.71	-5.69	49.02	74.00	-24.98	peak
3	9848.000	51.51	-1.27	50.24	74.00	-23.76	peak



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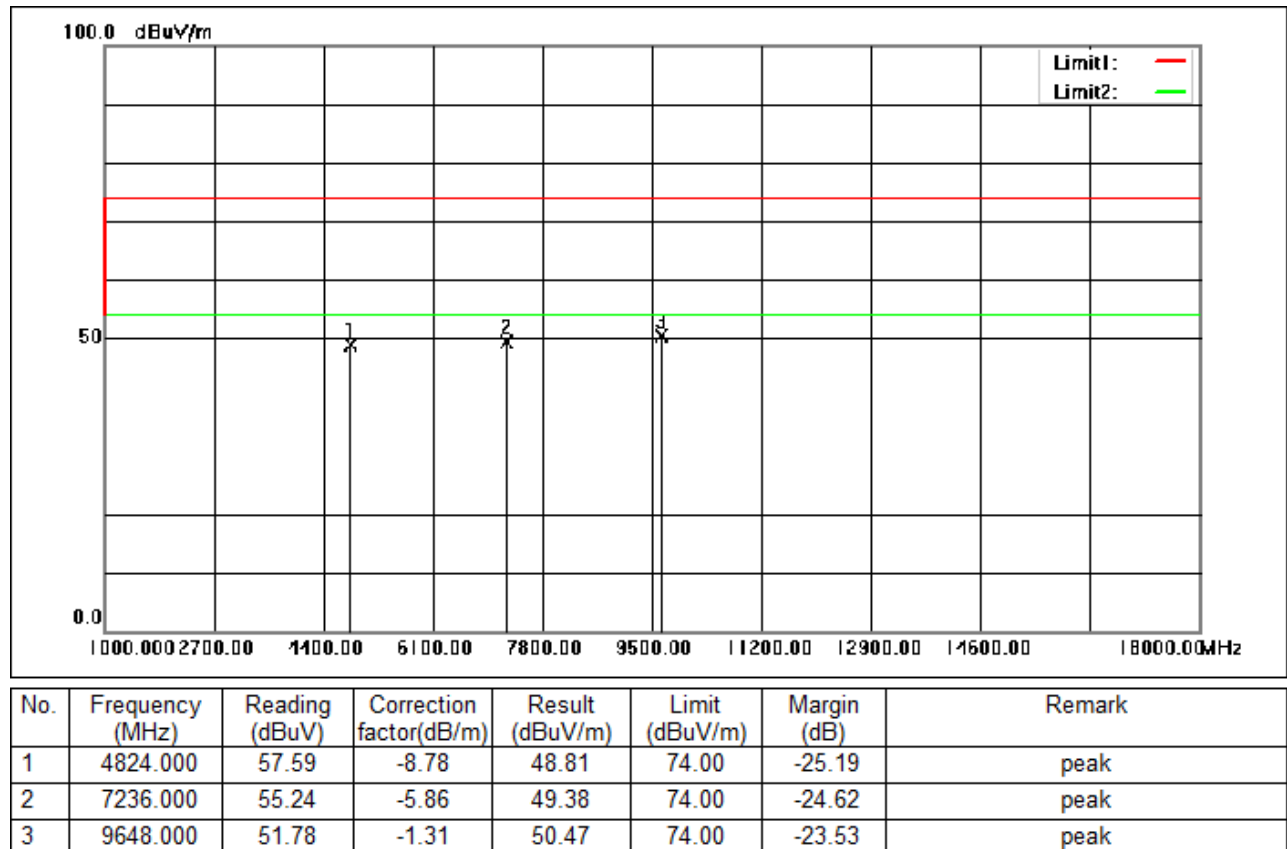
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



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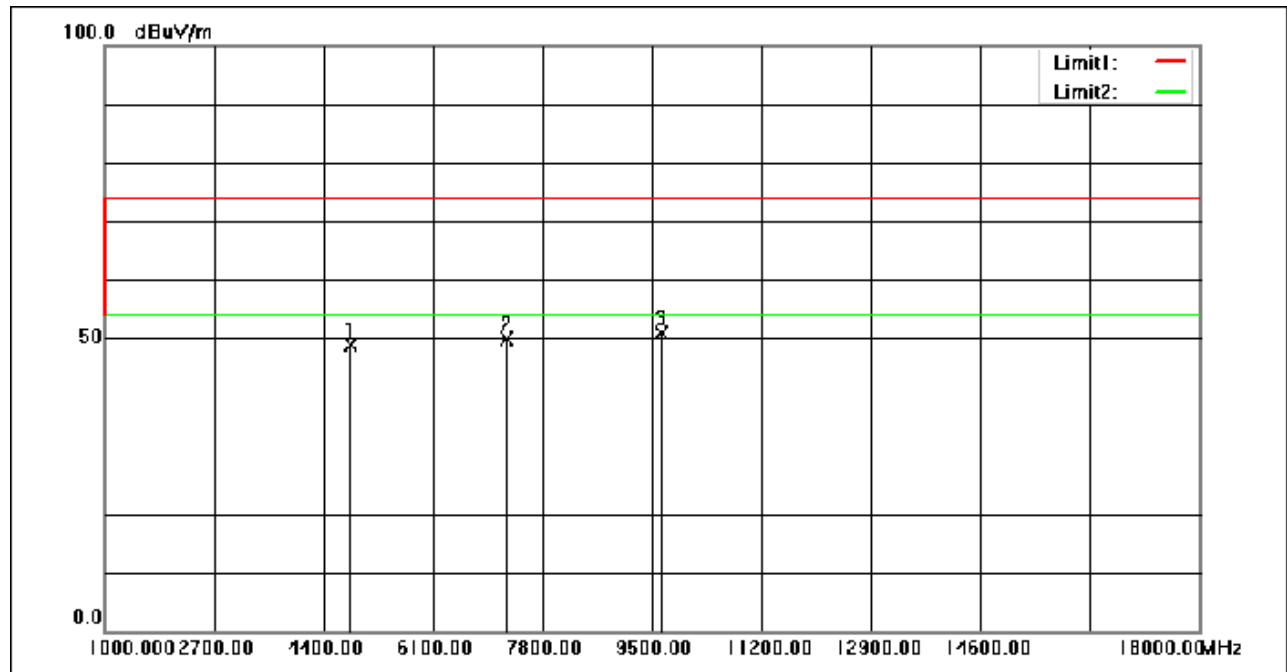
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Test Mode: 01; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.54	-8.78	48.76	74.00	-25.24	peak
2	7236.000	55.83	-5.86	49.97	74.00	-24.03	peak
3	9648.000	52.27	-1.31	50.96	74.00	-23.04	peak



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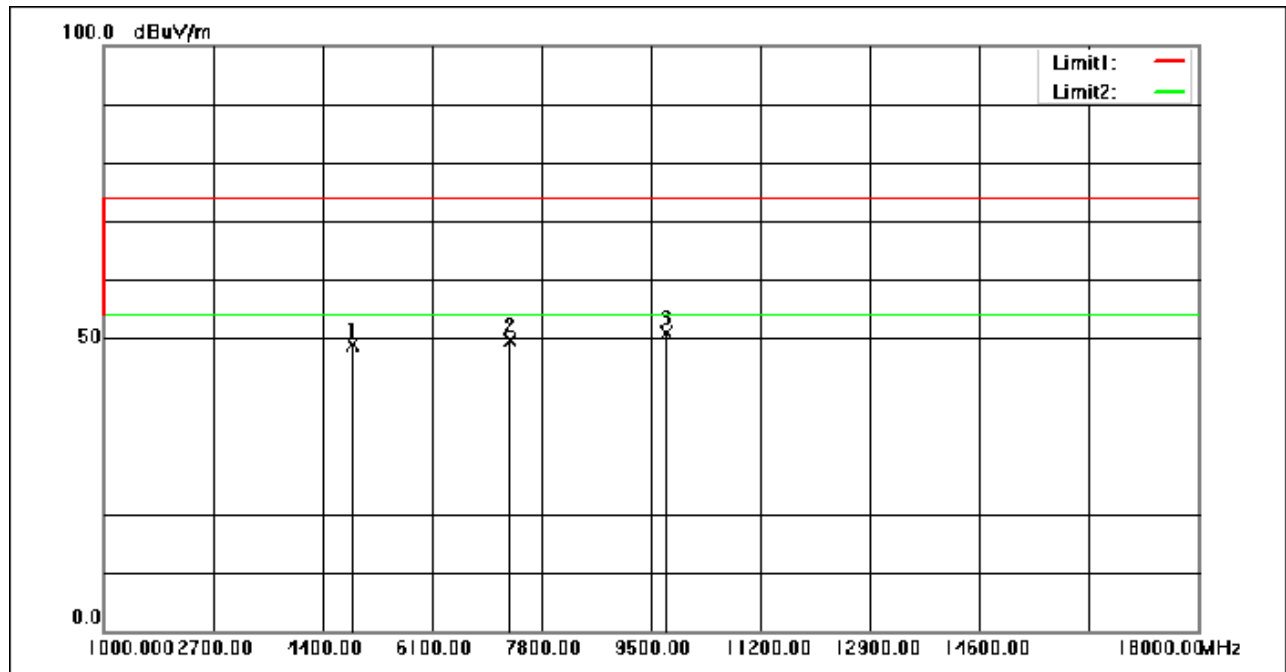
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.47	-8.61	48.86	74.00	-25.14	peak
2	7311.000	55.53	-5.78	49.75	74.00	-24.25	peak
3	9748.000	52.37	-1.43	50.94	74.00	-23.06	peak



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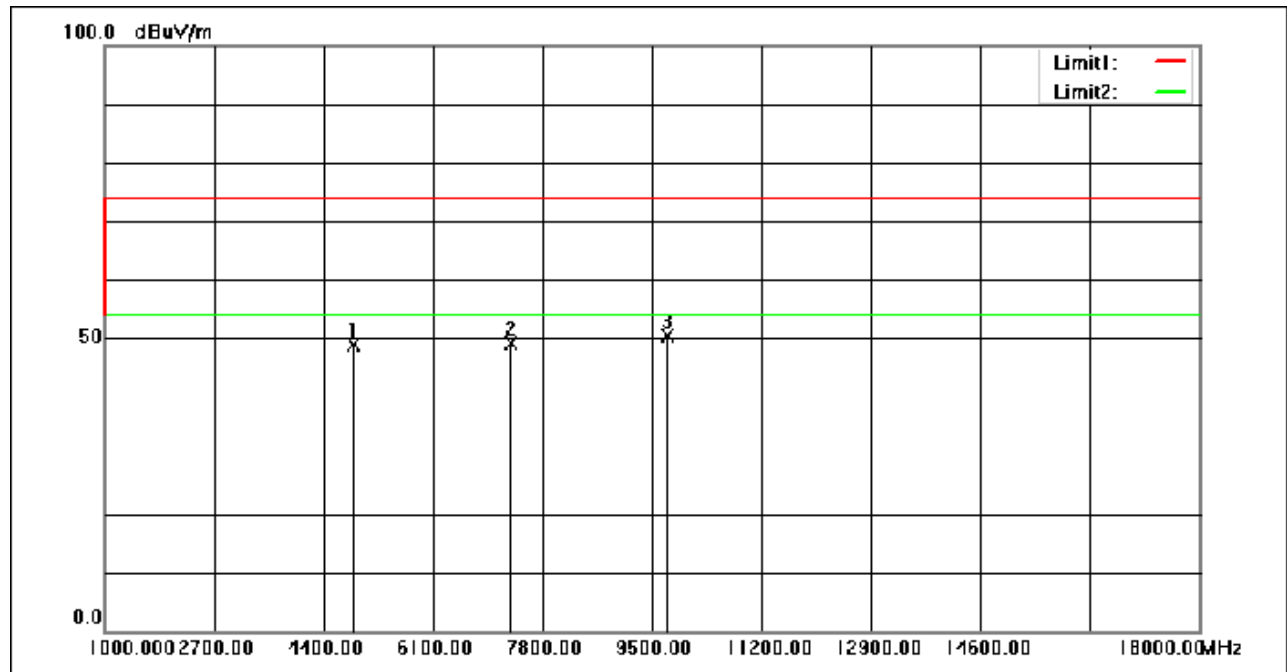
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	57.46	-8.61	48.85	74.00	-25.15	peak
2	7311.000	54.89	-5.78	49.11	74.00	-24.89	peak
3	9748.000	51.75	-1.43	50.32	74.00	-23.68	peak



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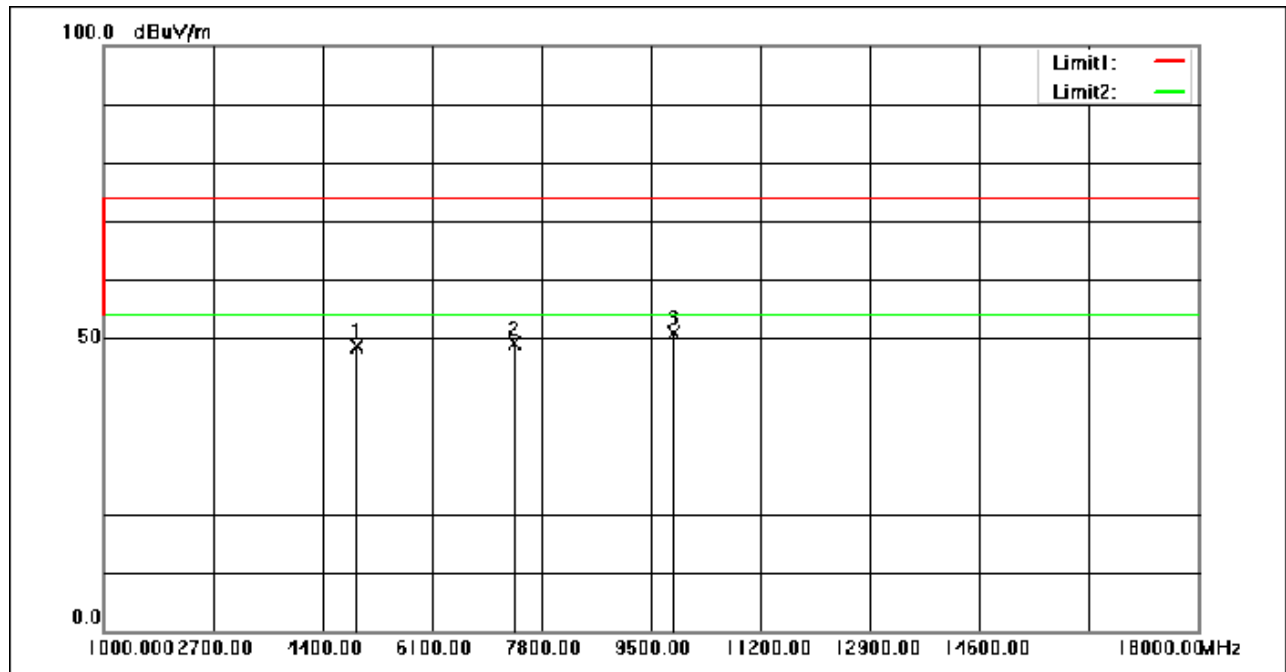
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	57.18	-8.44	48.74	74.00	-25.26	peak
2	7386.000	54.79	-5.69	49.10	74.00	-24.90	peak
3	9848.000	52.16	-1.27	50.89	74.00	-23.11	peak



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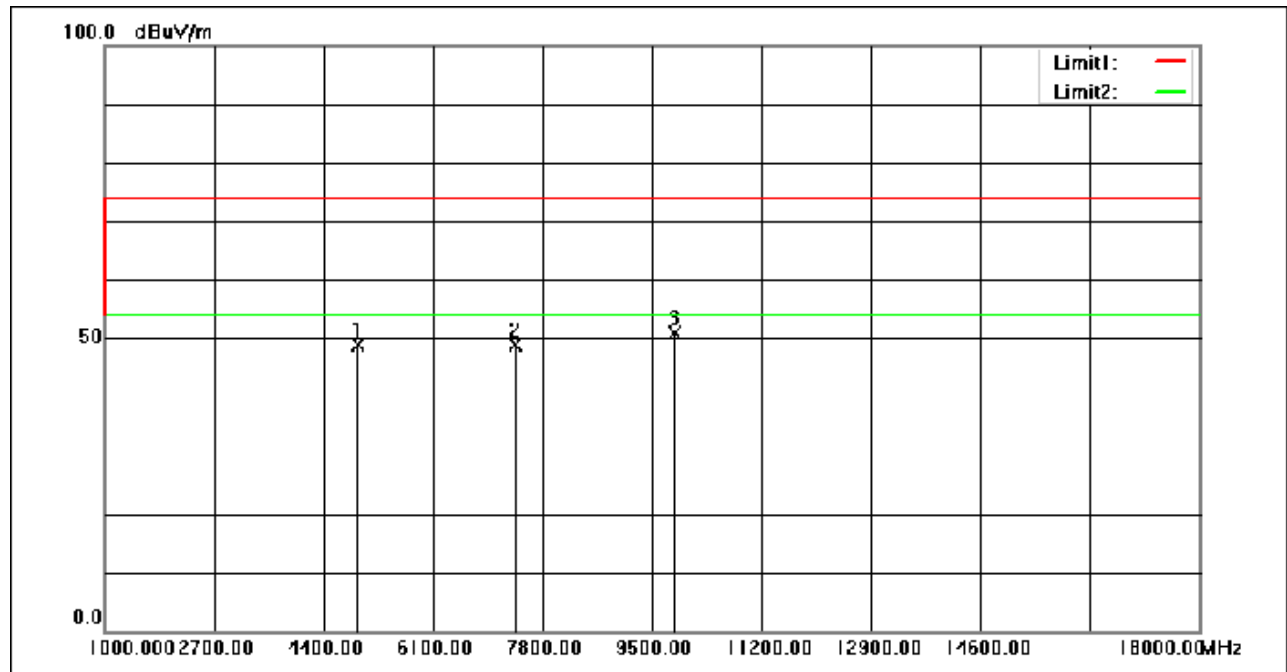
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

Page: 116 of 177

Test Mode: 01; 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	57.38	-8.44	48.94	74.00	-25.06	peak
2	7386.000	54.54	-5.69	48.85	74.00	-25.15	peak
3	9848.000	52.18	-1.27	50.91	74.00	-23.09	peak



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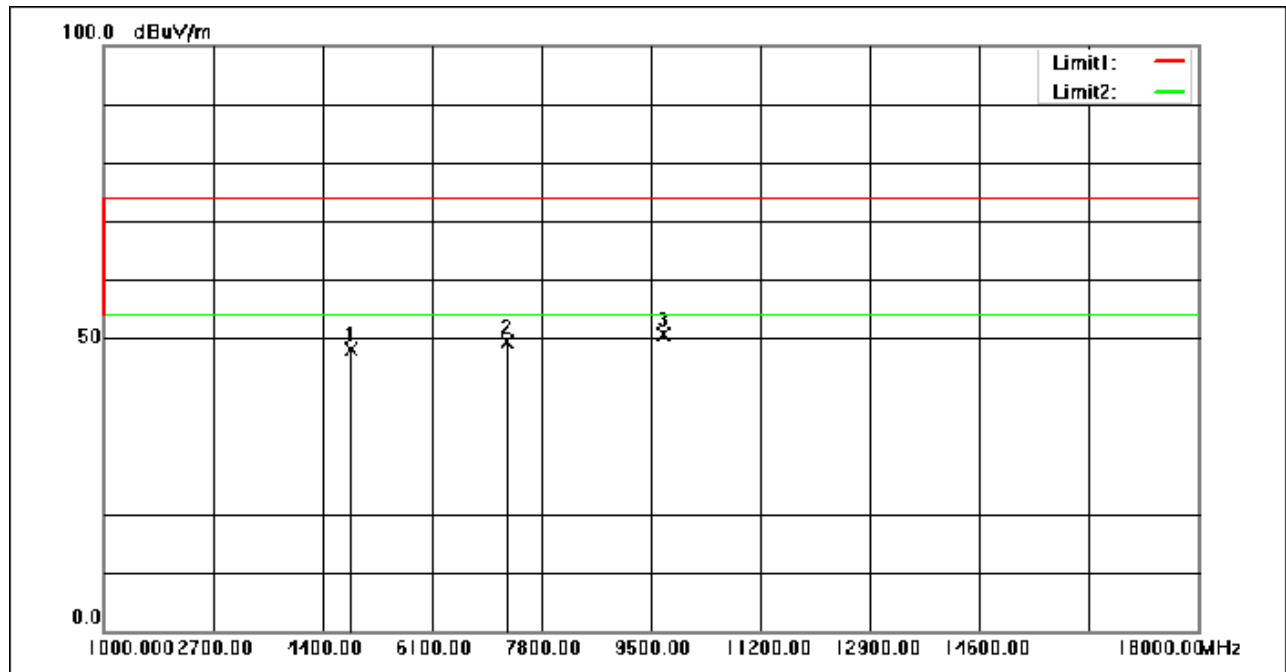
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	56.94	-8.71	48.23	74.00	-25.77	peak
2	7266.000	55.22	-5.83	49.39	74.00	-24.61	peak
3	9688.000	51.92	-1.36	50.56	74.00	-23.44	peak



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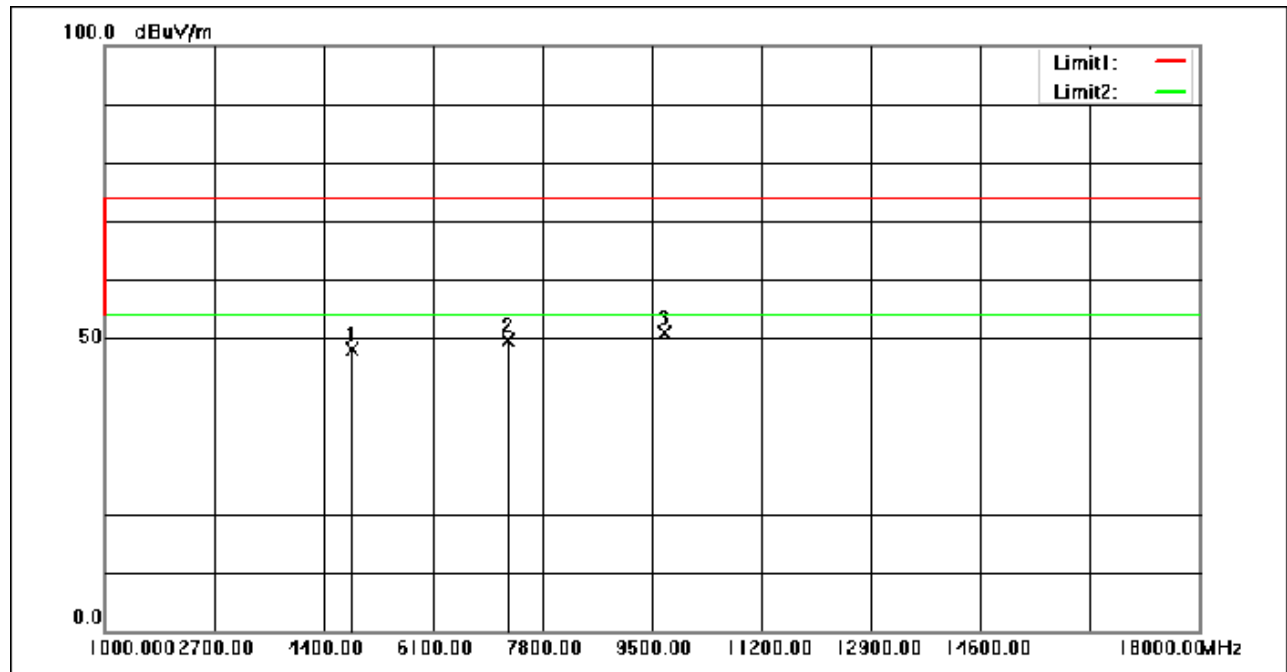
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	56.84	-8.71	48.13	74.00	-25.87	peak
2	7266.000	55.58	-5.83	49.75	74.00	-24.25	peak
3	9688.000	52.26	-1.36	50.90	74.00	-23.10	peak



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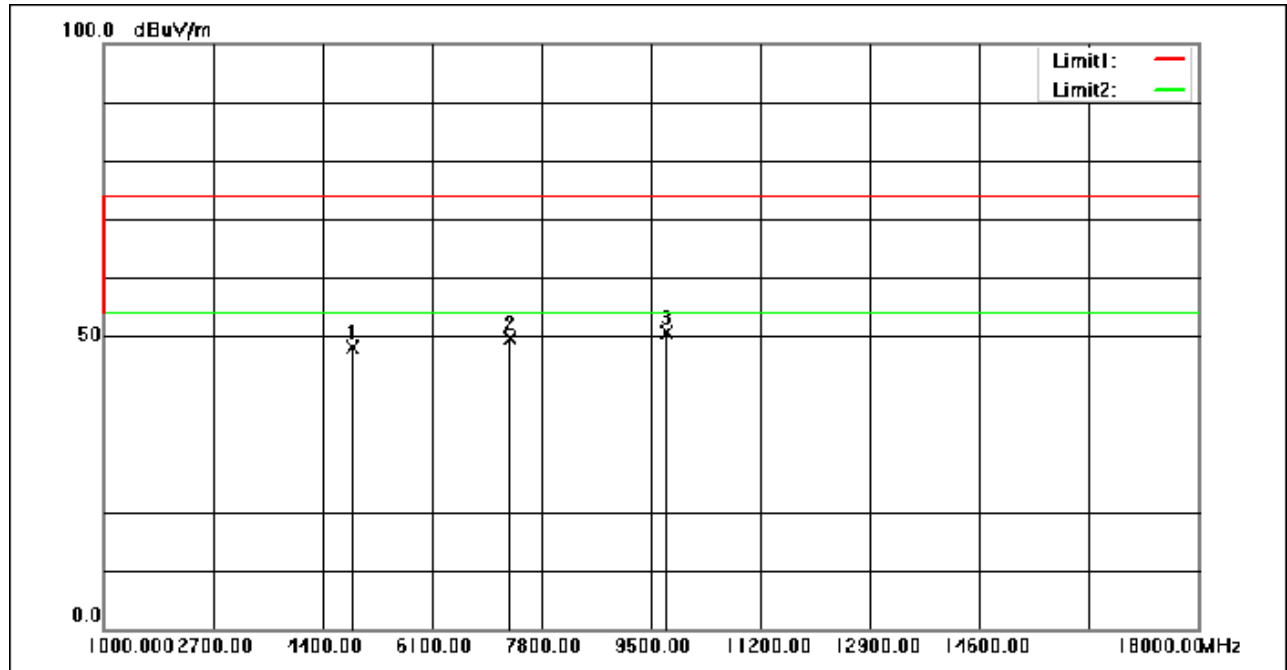
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	55.34	-5.78	49.56	74.00	-24.44	peak
3	9748.000	52.11	-1.43	50.68	74.00	-23.32	peak



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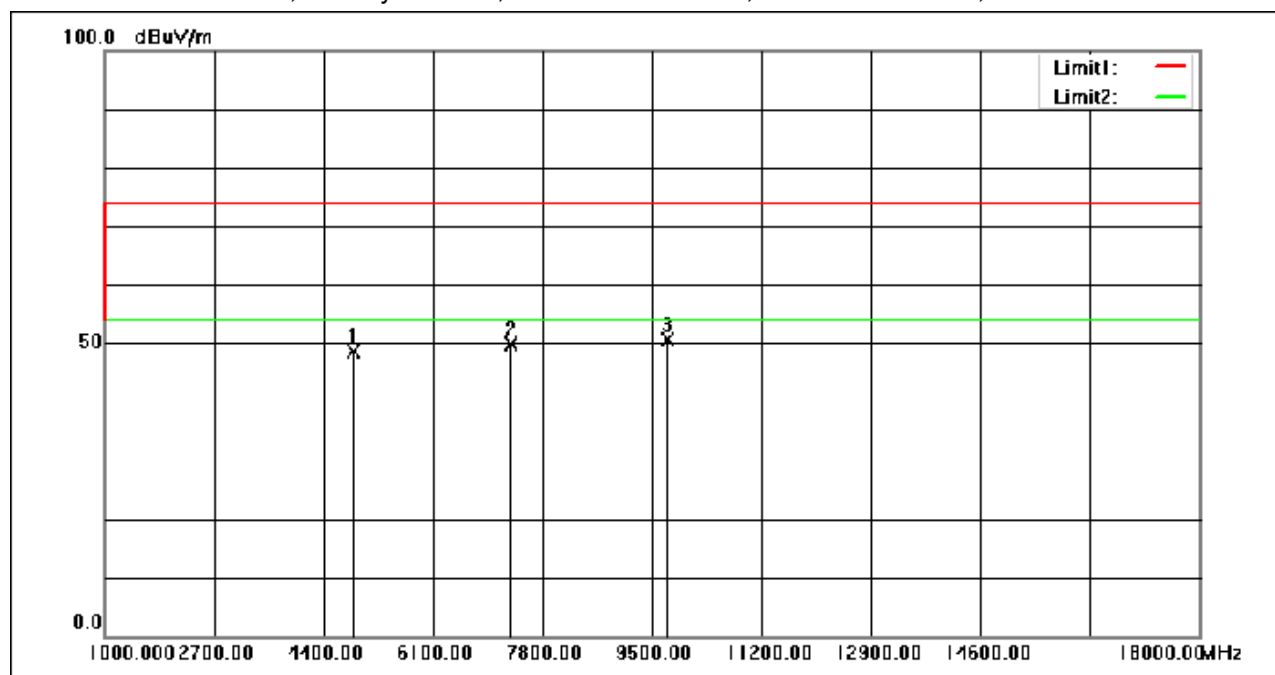
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	57.27	-8.61	48.66	74.00	-25.34	peak
2	7311.000	55.71	-5.78	49.93	74.00	-24.07	peak
3	9748.000	52.17	-1.43	50.74	74.00	-23.26	peak



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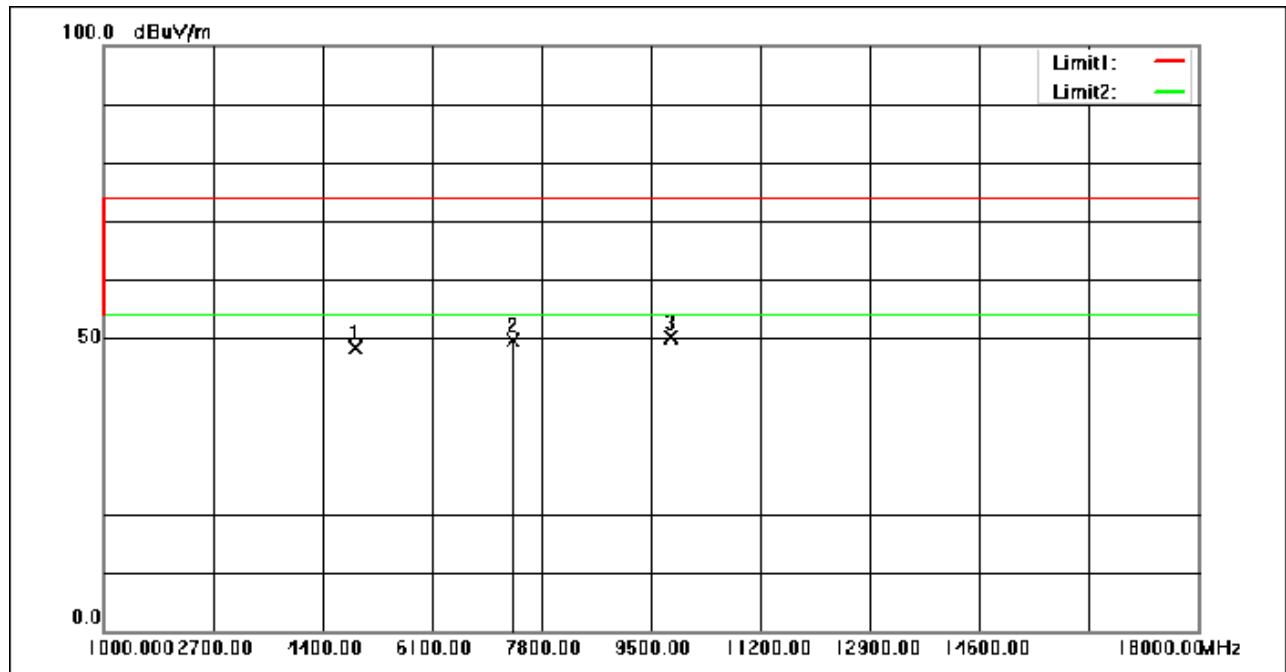
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	56.80	-8.51	48.29	74.00	-25.71	peak
2	7356.000	55.48	-5.73	49.75	74.00	-24.25	peak
3	9808.000	51.65	-1.47	50.18	74.00	-23.82	peak



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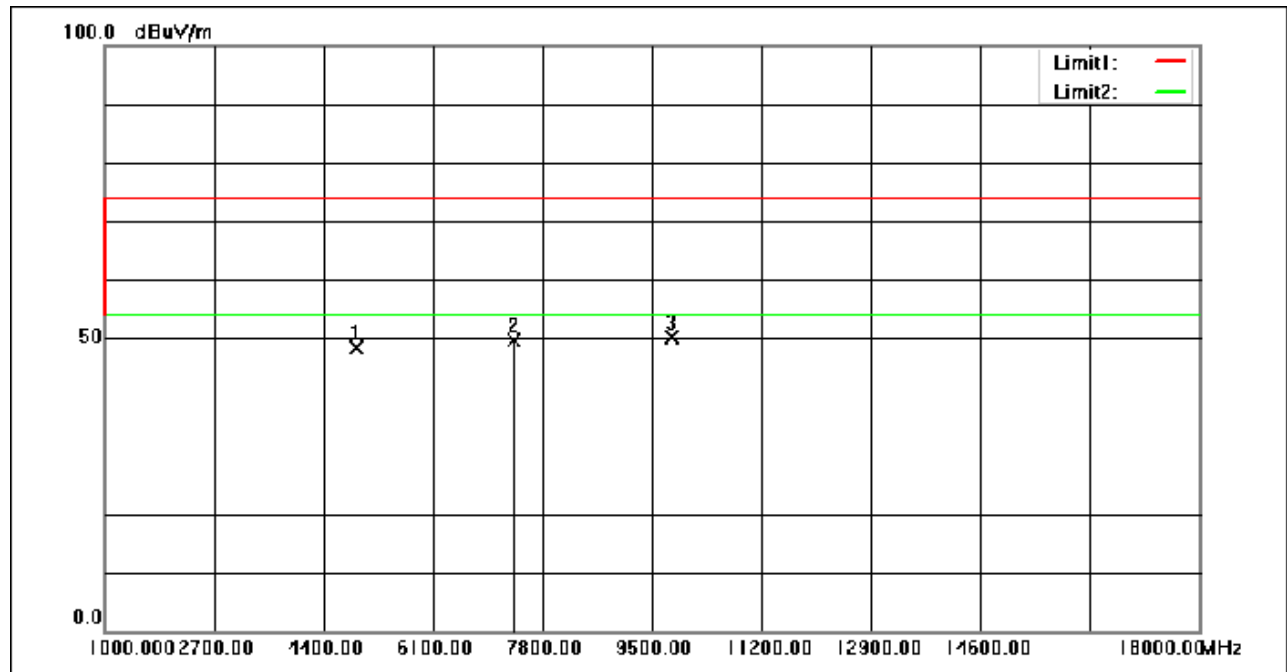
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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Test Mode: 01; 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	56.80	-8.51	48.29	74.00	-25.71	peak
2	7356.000	55.48	-5.73	49.75	74.00	-24.25	peak
3	9808.000	51.65	-1.47	50.18	74.00	-23.82	peak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2304000703AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2304000703AT



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10 Appendix

For OEI-372S-H-W

Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
	Ant 1	Ant 1	Ant 1
1	31	40	38
6	32	42	40
11	37	45	43
Channel	802.11n(HT40)		
	Ant 1		
3	36		
6	37		
9	40		

1. Maximum Conducted Output Power

1.1 Power

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	16.19	<=30	Pass
		2437	15.96	<=30	Pass
		2462	16.18	<=30	Pass
802.11g	SISO	2412	14.23	<=30	Pass
		2437	14.06	<=30	Pass
		2462	14.04	<=30	Pass
802.11n (HT20)	SISO	2412	13.25	<=30	Pass
		2437	13.01	<=30	Pass
		2462	13.02	<=30	Pass
802.11n (HT40)	SISO	2422	12.13	<=30	Pass
		2437	11.96	<=30	Pass
		2452	12.26	<=30	Pass

Note1: Antenna Gain: Ant1: 3.23dBi;



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For OEI-371S-H-W

Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
	Ant 1	Ant 1	Ant 1
1	31	41	39
6	33	45	43
11	40	48	46
Channel	802.11n(HT40)		
	Ant 1		
3	38		
6	40		
9	43		

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	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00

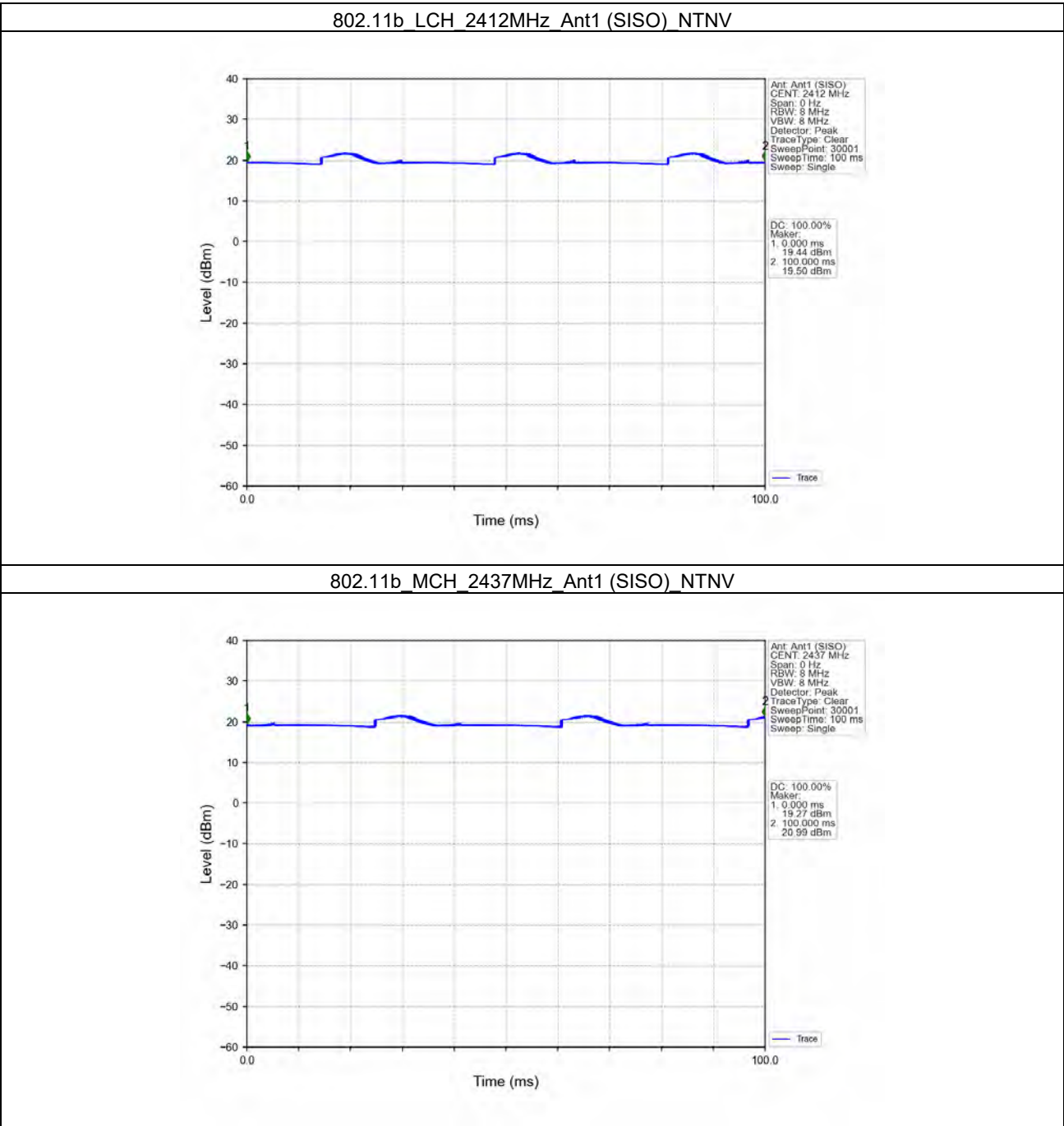


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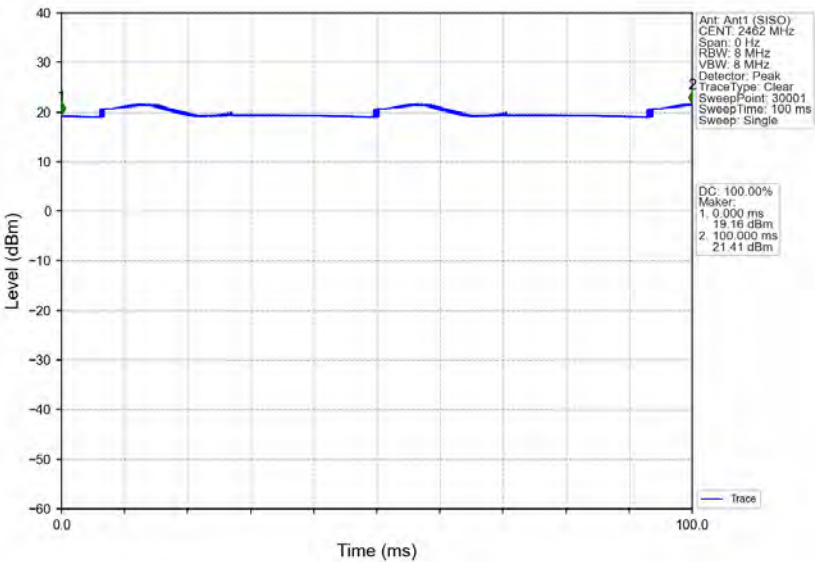
1.1.2 Test Graph



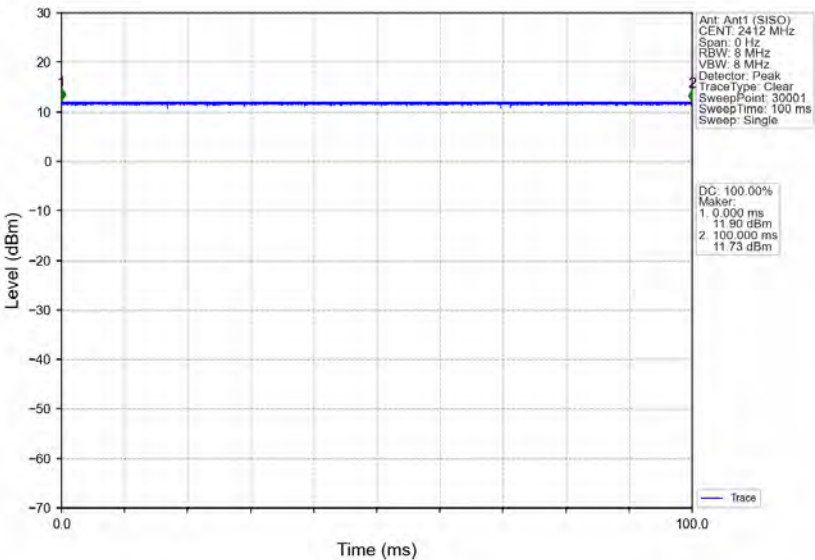
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802.11b HCH 2462MHz Ant1 (SISO) NTN



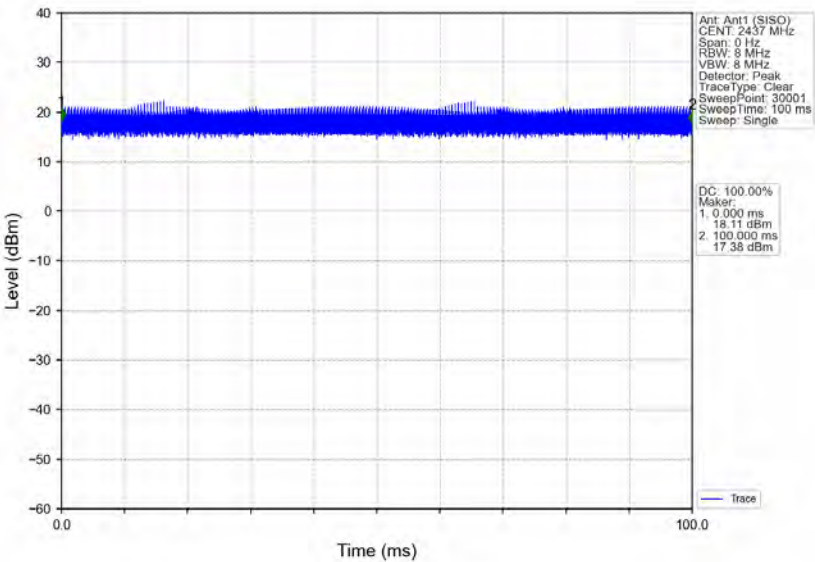
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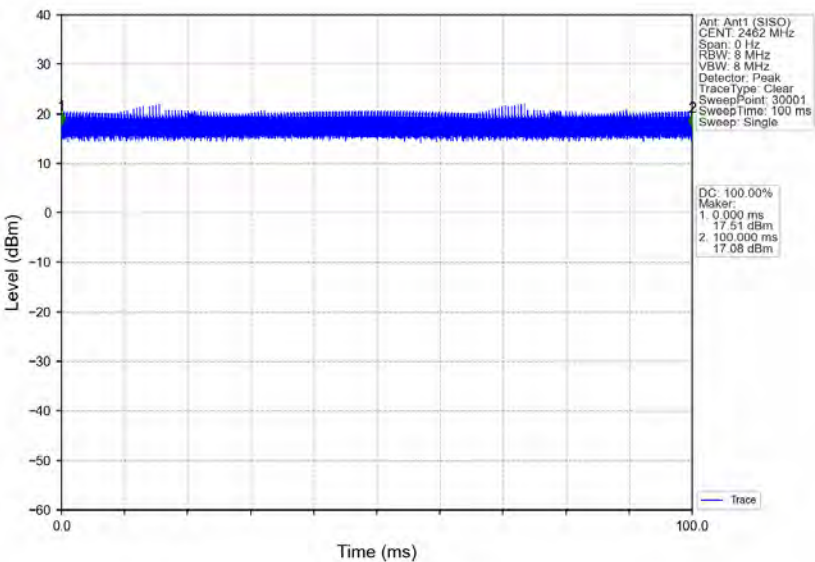
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802.11g MCH 2437MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant1 (SISO) NTN

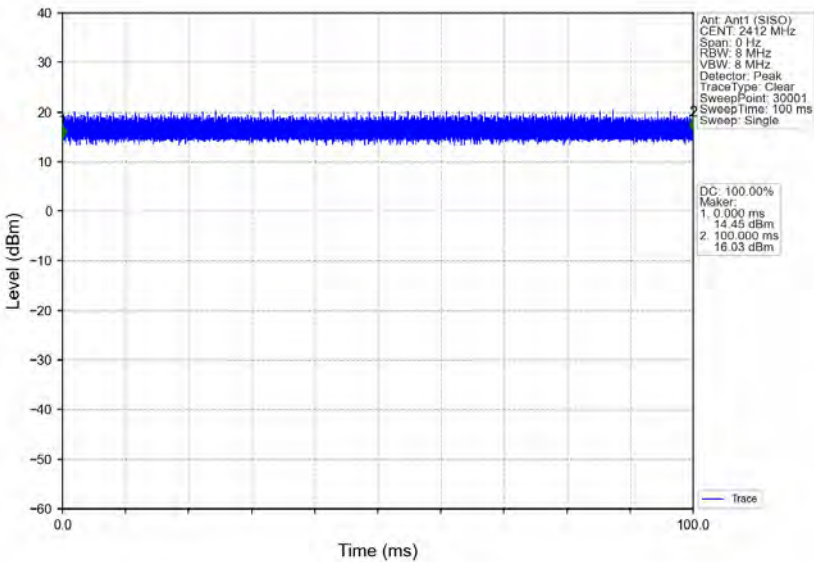


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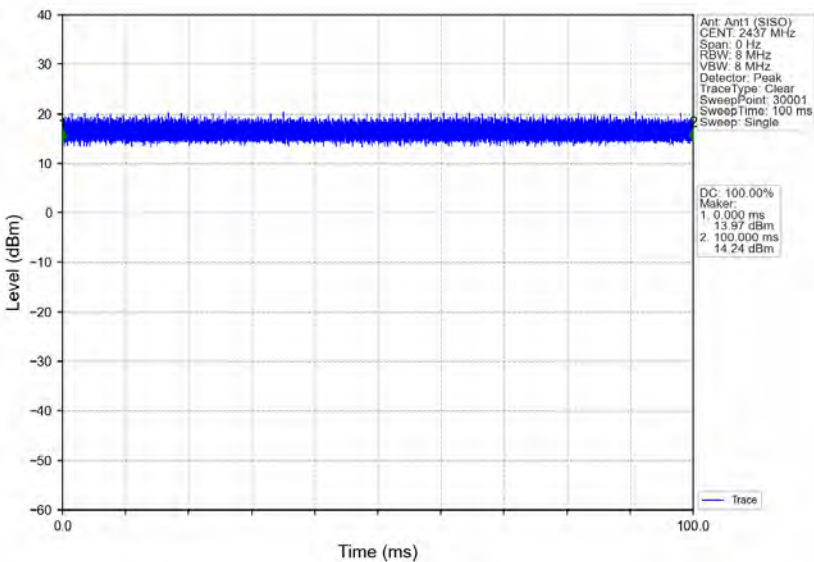
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV

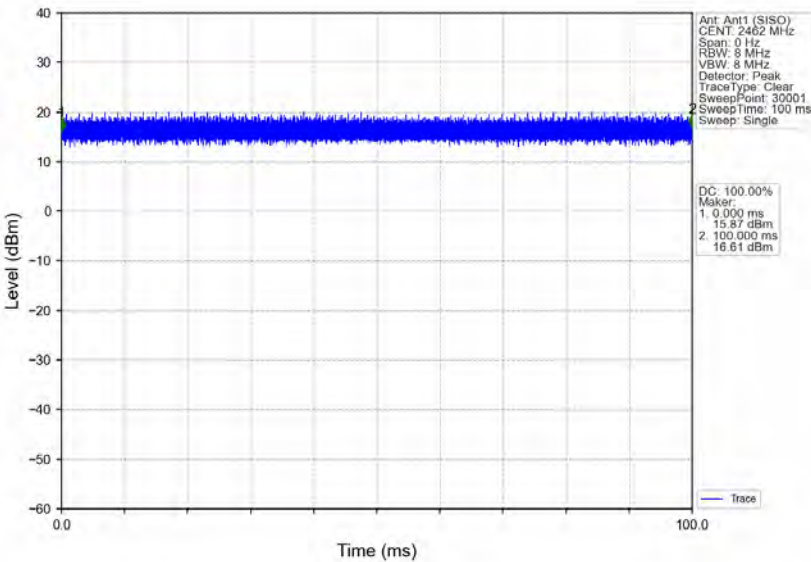


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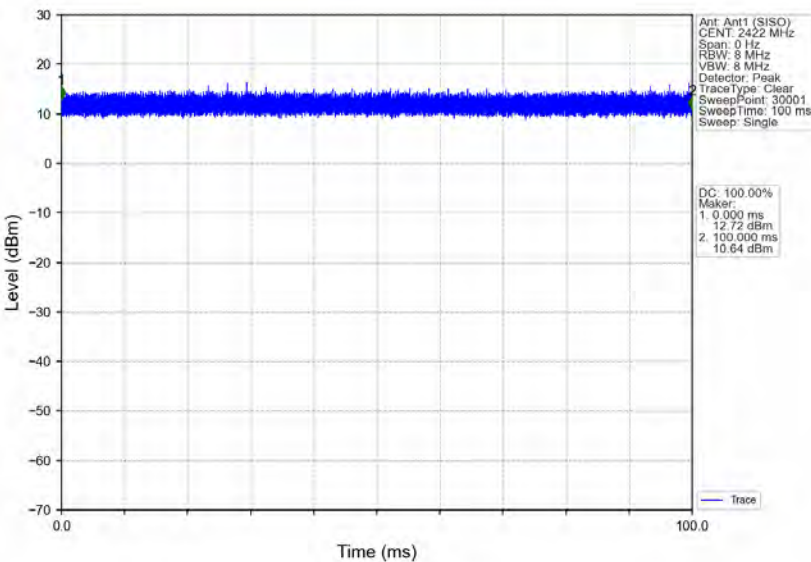
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



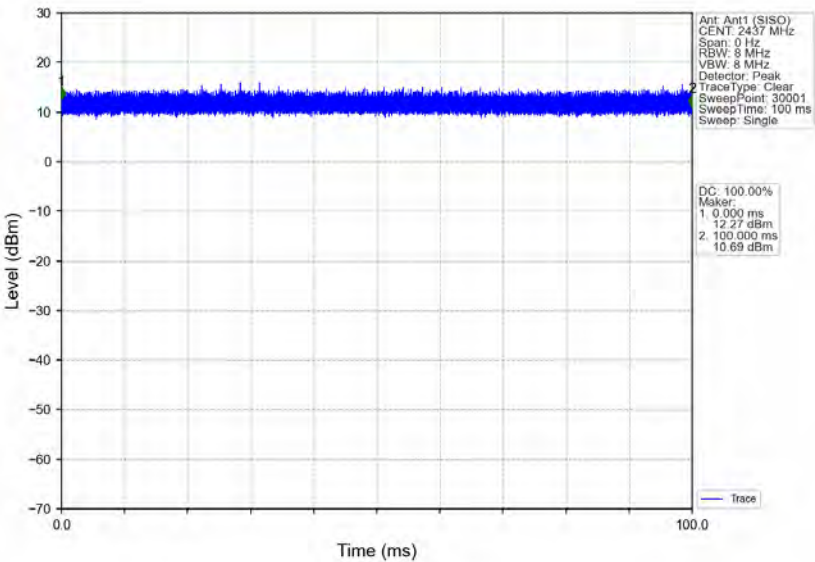
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



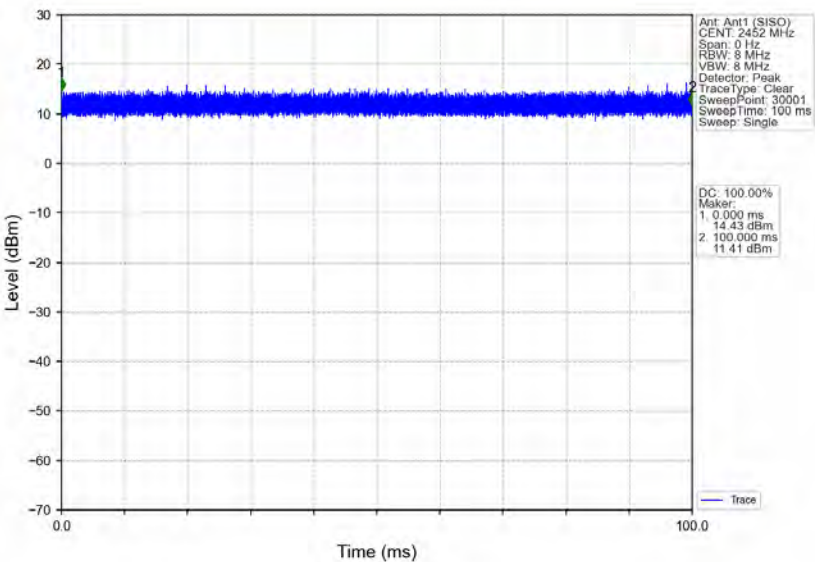
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	13.668	Pass
		2437	1	13.718	Pass
		2462	1	13.449	Pass
802.11g	SISO	2412	1	17.548	Pass
		2437	1	17.547	Pass
		2462	1	17.579	Pass
802.11n (HT20)	SISO	2412	1	18.359	Pass
		2437	1	18.355	Pass
		2462	1	18.344	Pass
802.11n (HT40)	SISO	2422	1	36.820	Pass
		2437	1	36.830	Pass
		2452	1	36.840	Pass

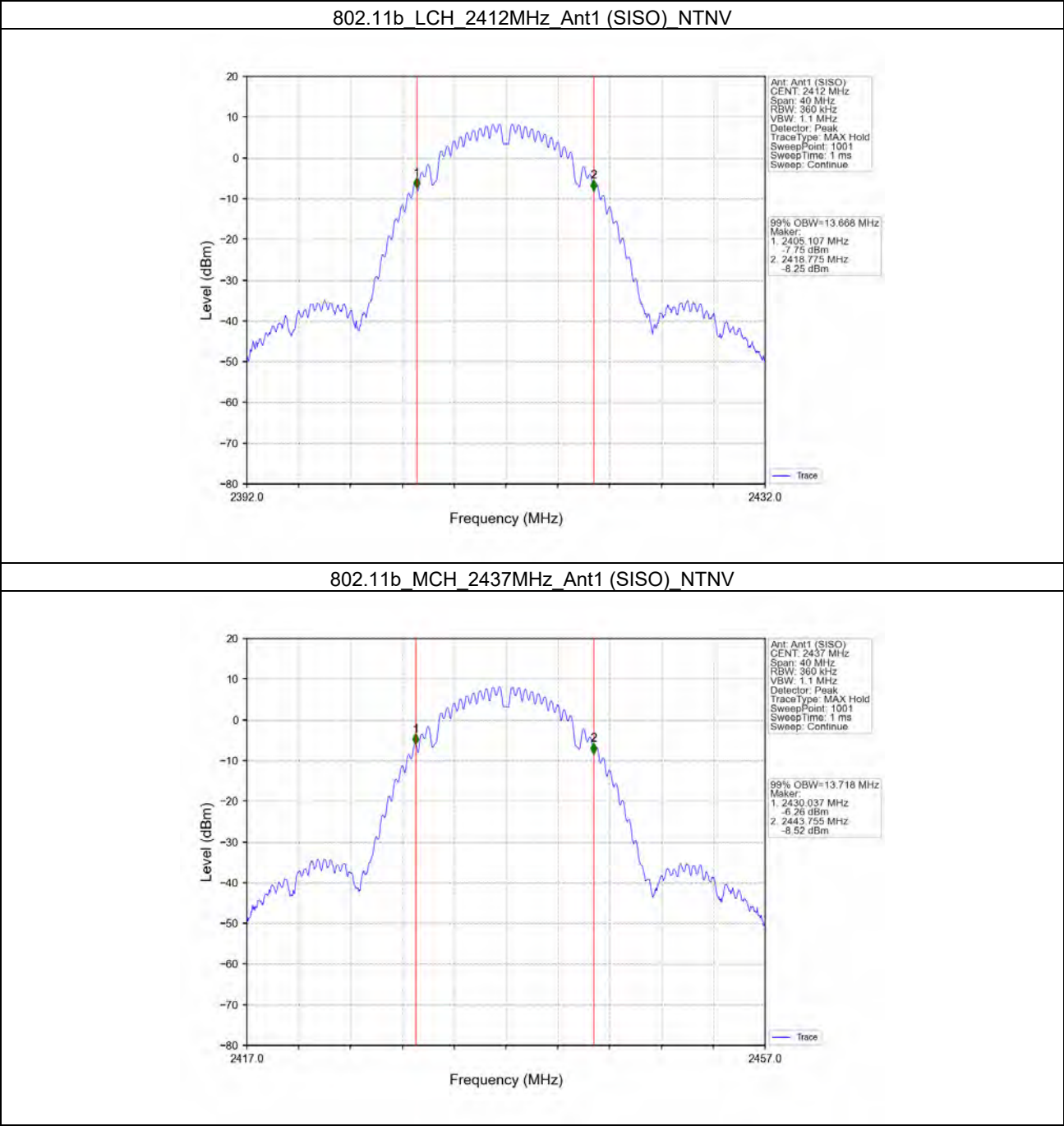


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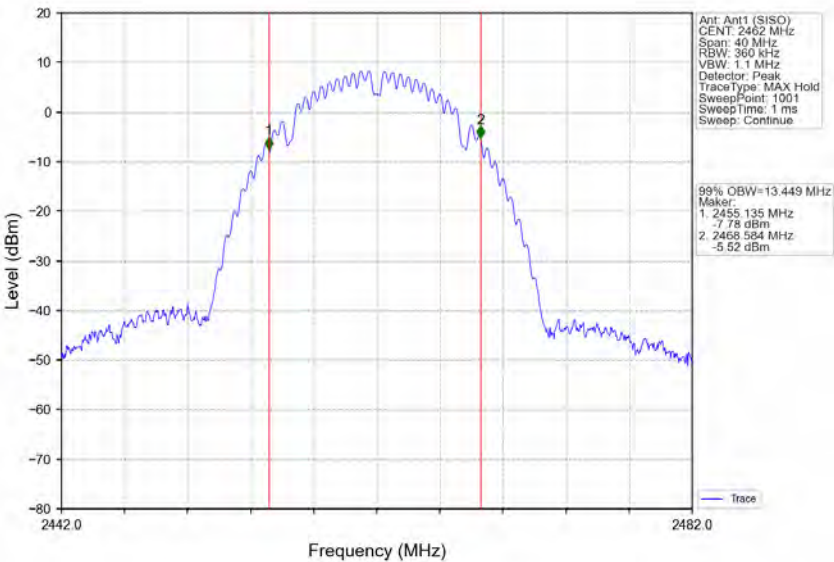
2.1.2 Test Graph



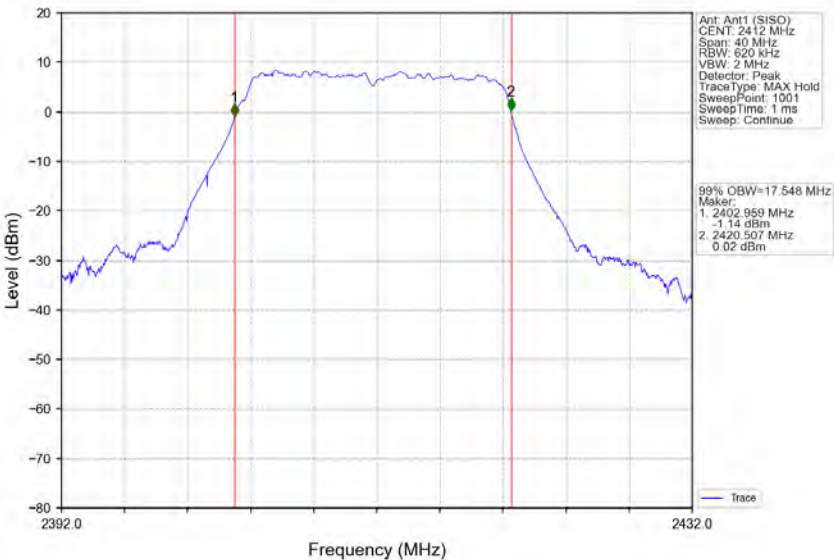
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802.11b HCH 2462MHz Ant1 (SISO) NTN



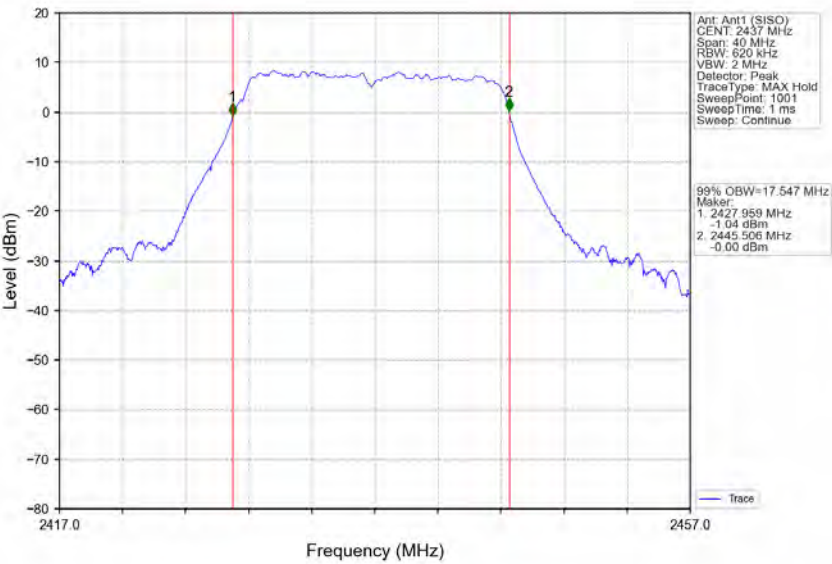
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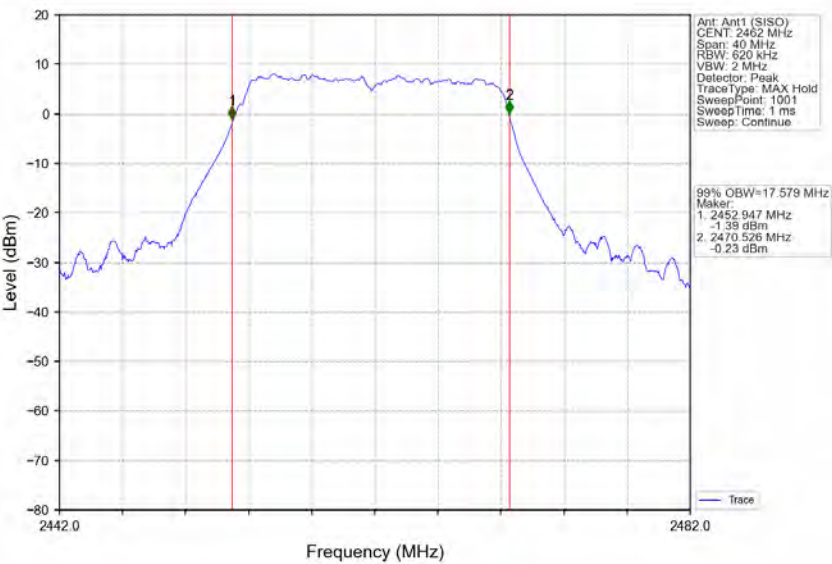
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802.11g MCH 2437MHz Ant1 (SISO) NTN



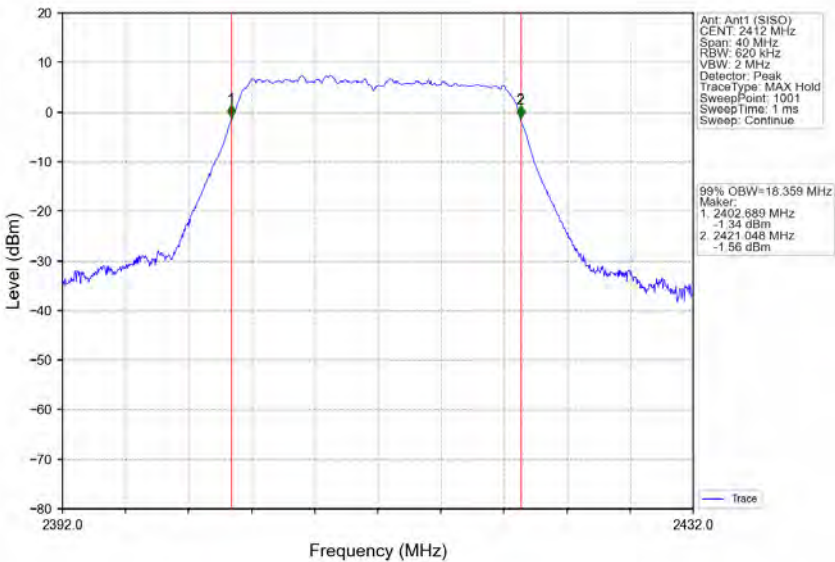
802.11g HCH 2462MHz Ant1 (SISO) NTN



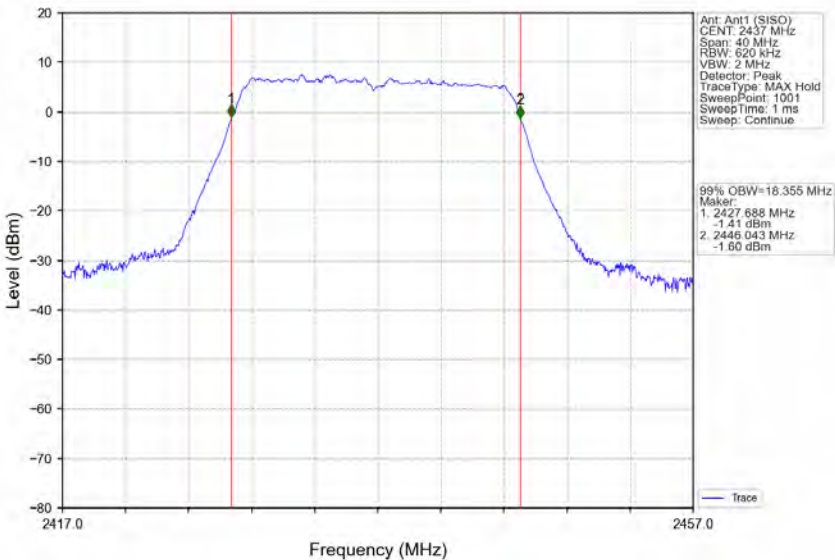
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



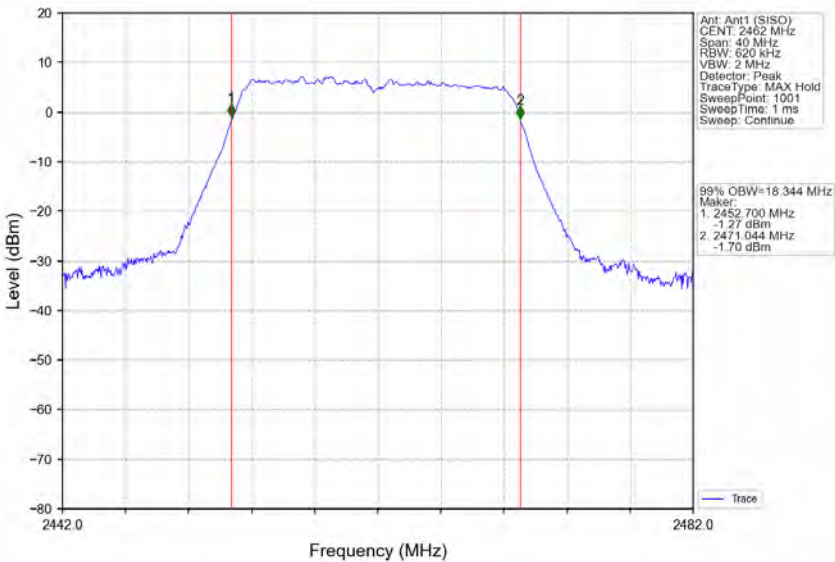
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



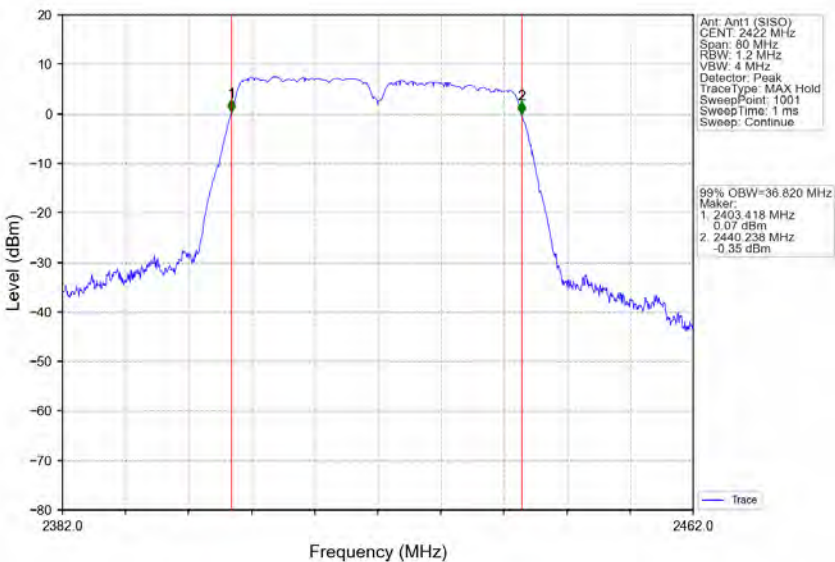
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



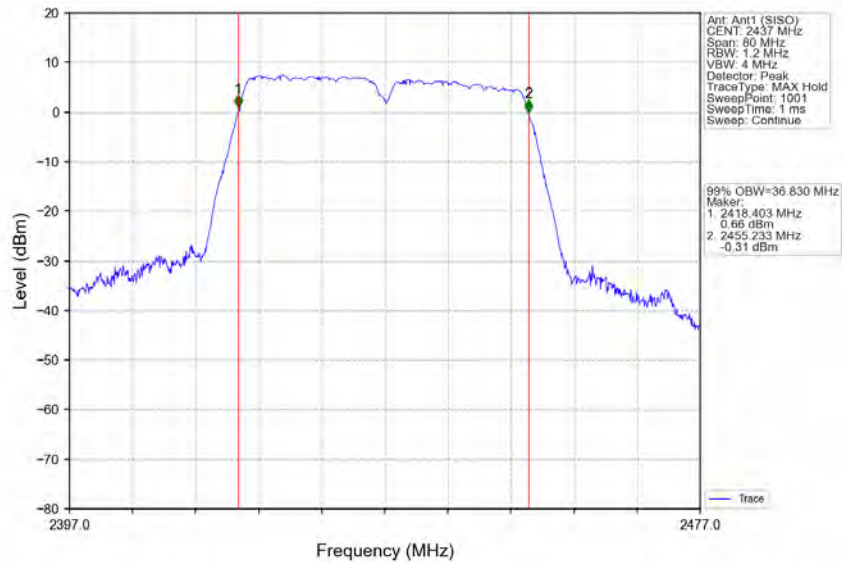
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



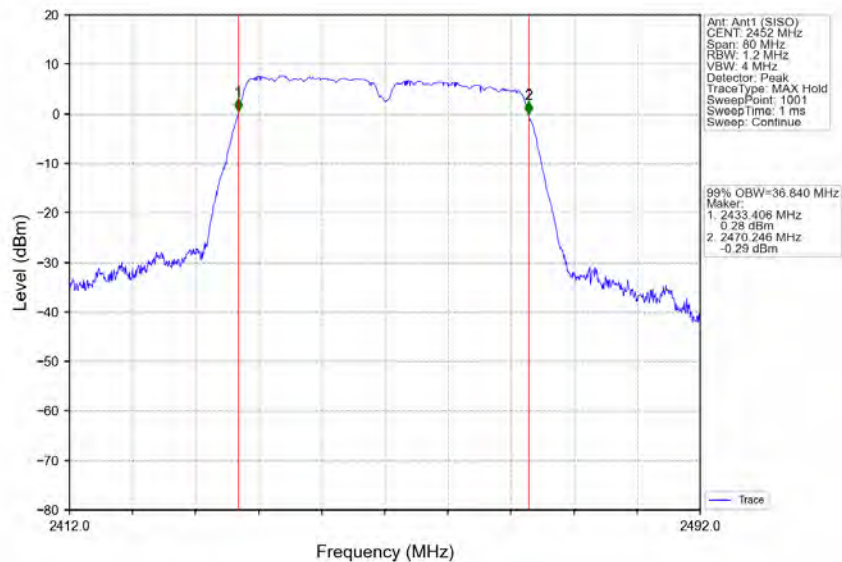
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	9.098	≥ 0.5	Pass
		2437	1	9.101	≥ 0.5	Pass
		2462	1	9.082	≥ 0.5	Pass
802.11g	SISO	2412	1	16.546	≥ 0.5	Pass
		2437	1	16.547	≥ 0.5	Pass
		2462	1	16.549	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.728	≥ 0.5	Pass
		2437	1	17.730	≥ 0.5	Pass
		2462	1	17.725	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.448	≥ 0.5	Pass
		2437	1	36.444	≥ 0.5	Pass
		2452	1	36.481	≥ 0.5	Pass

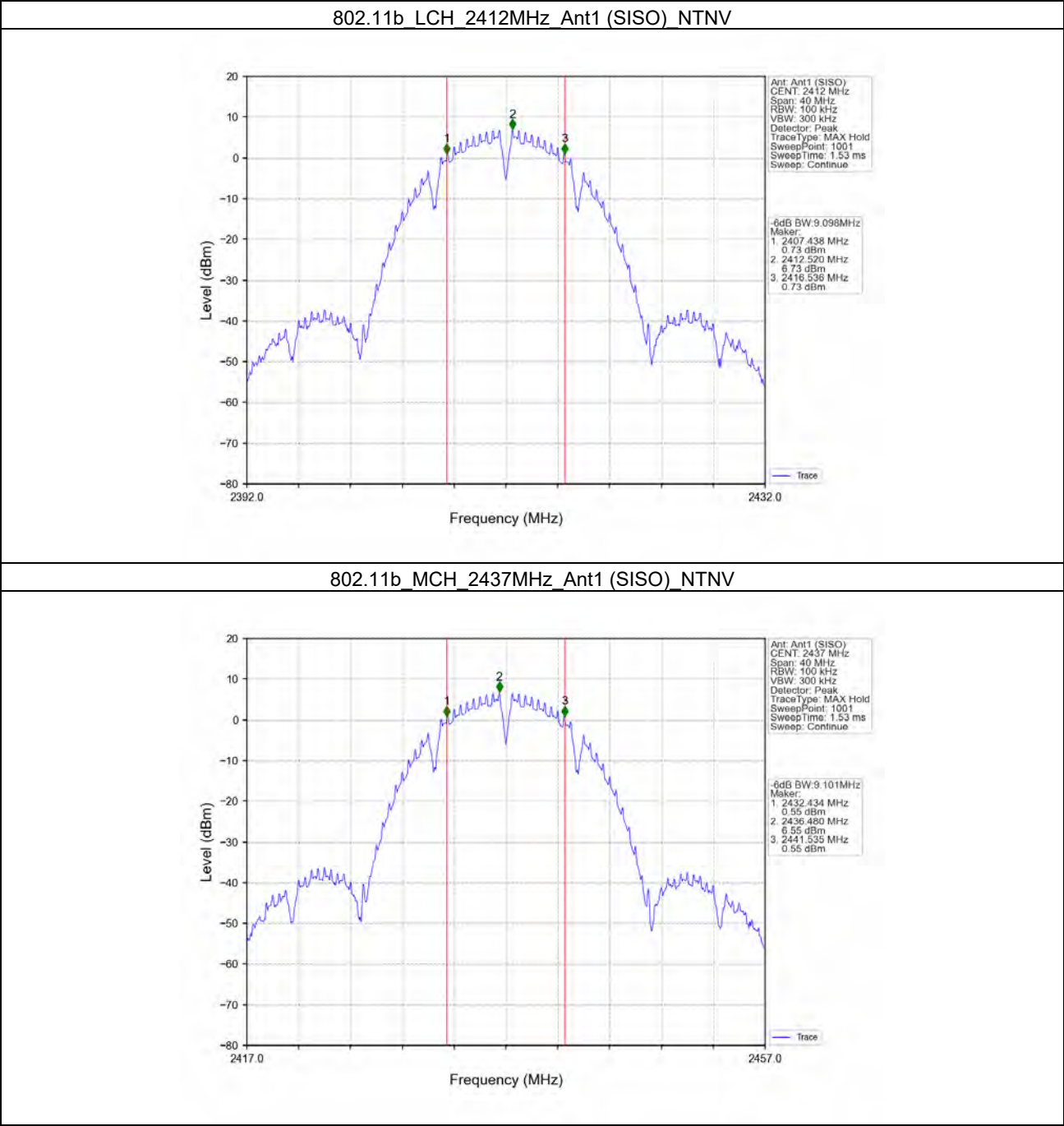


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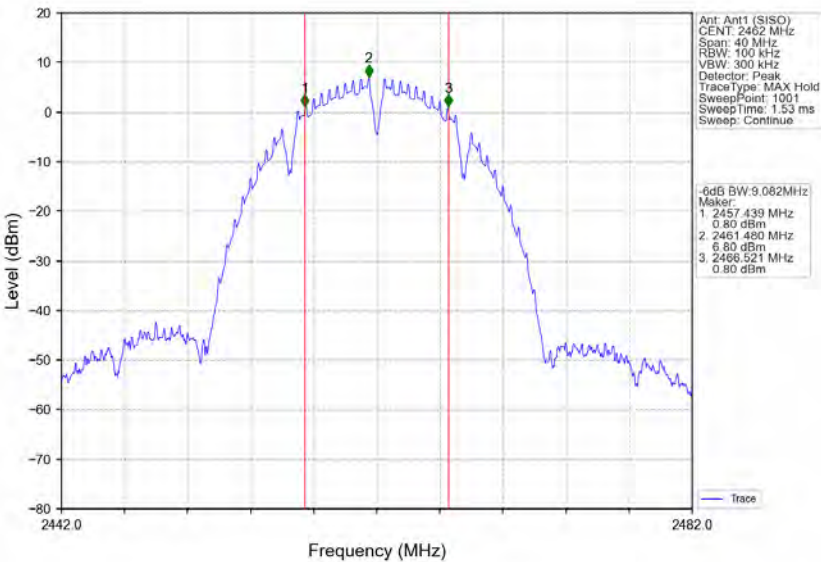
2.2.2 Test Graph



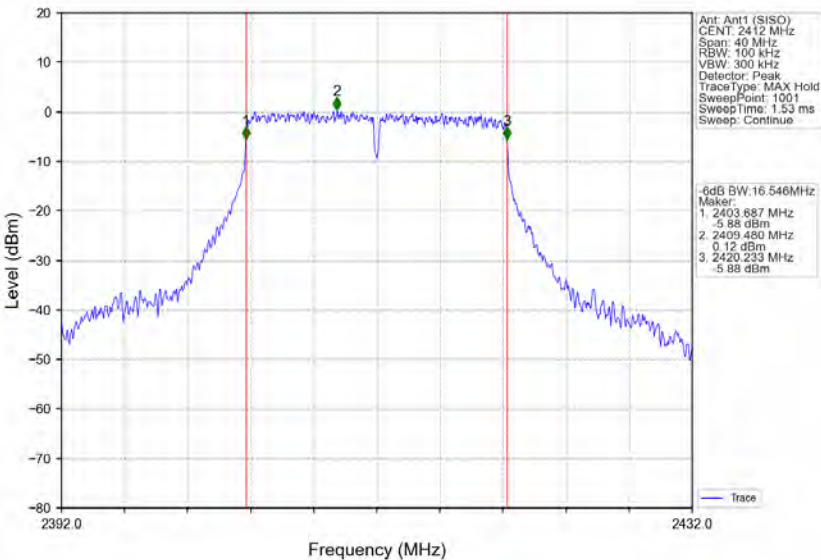
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802.11b HCH 2462MHz Ant1 (SISO) NTN



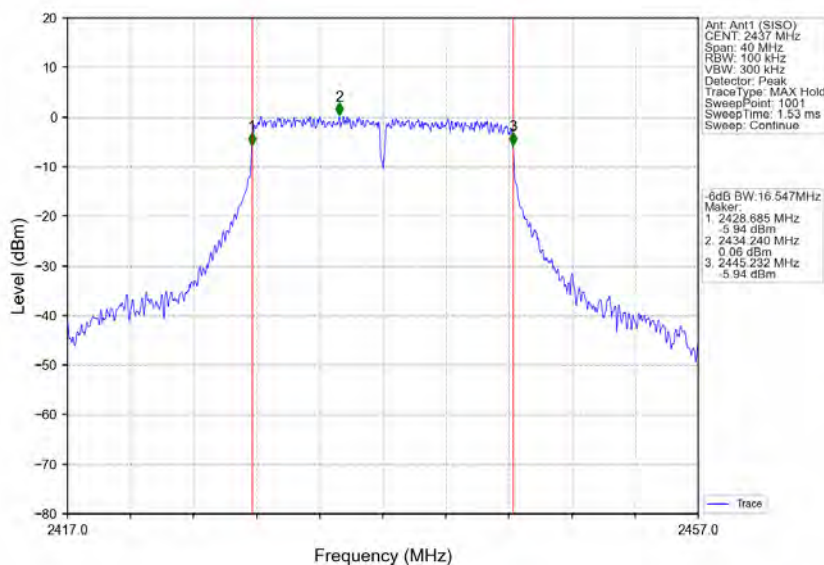
802.11g LCH 2412MHz Ant1 (SISO) NTN



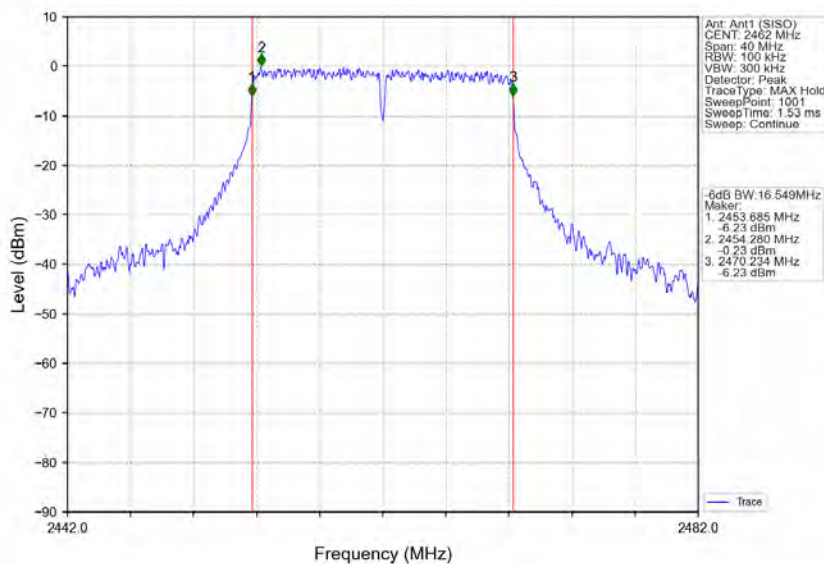
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802.11g MCH 2437MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant1 (SISO) NTN

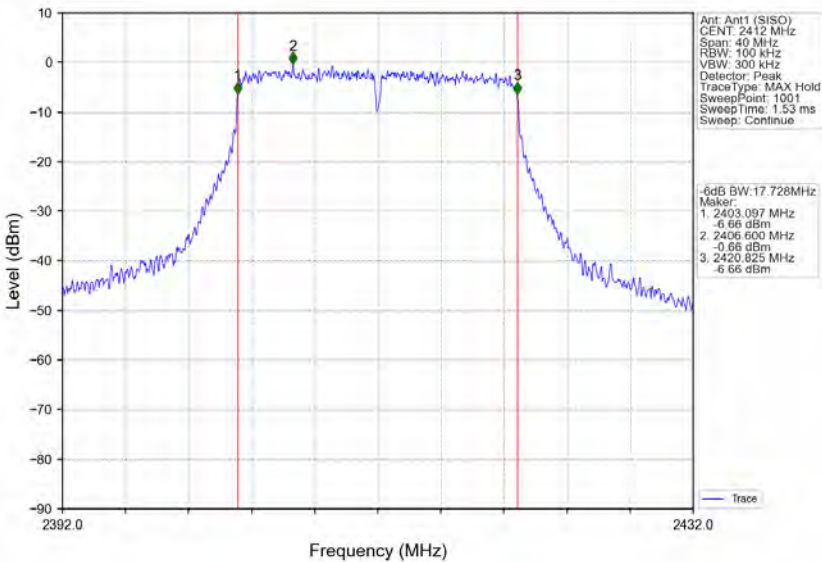


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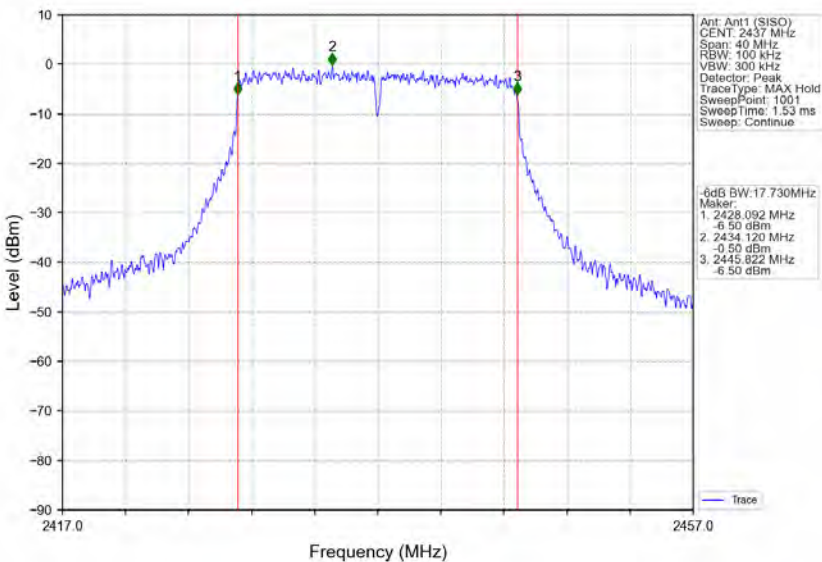
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



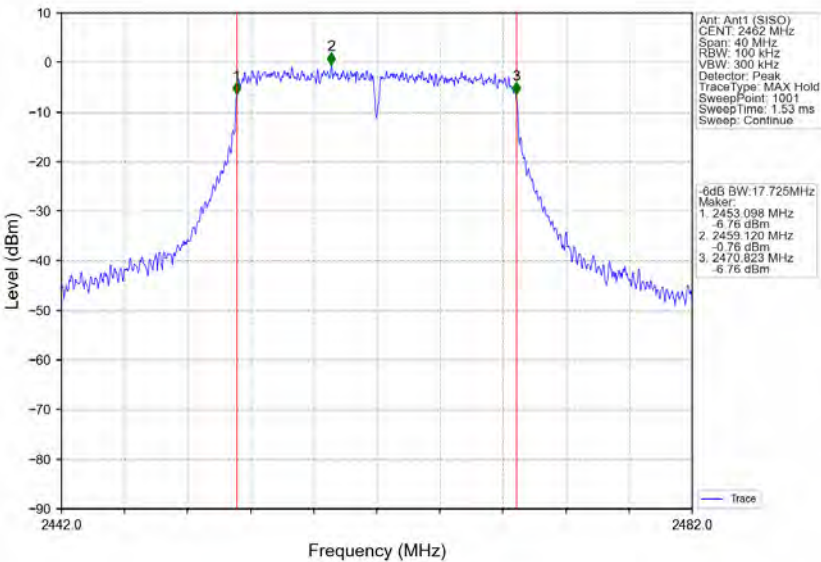
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



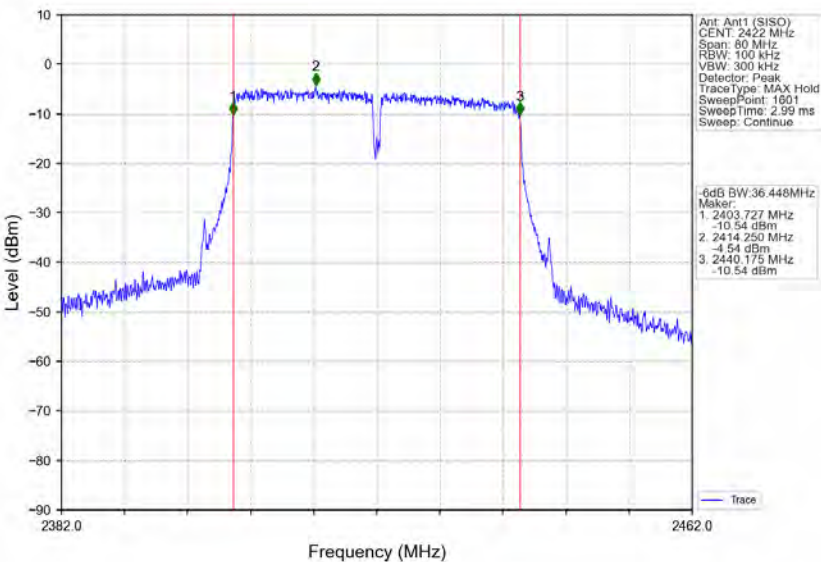
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



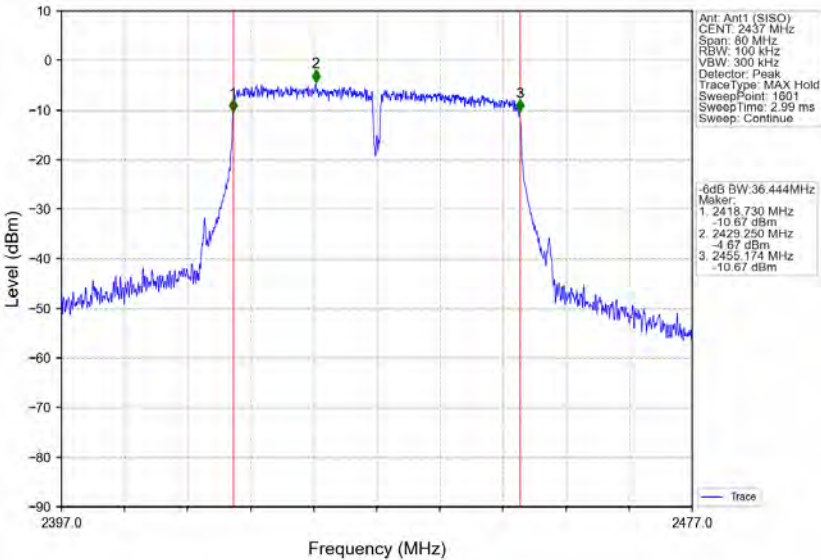
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



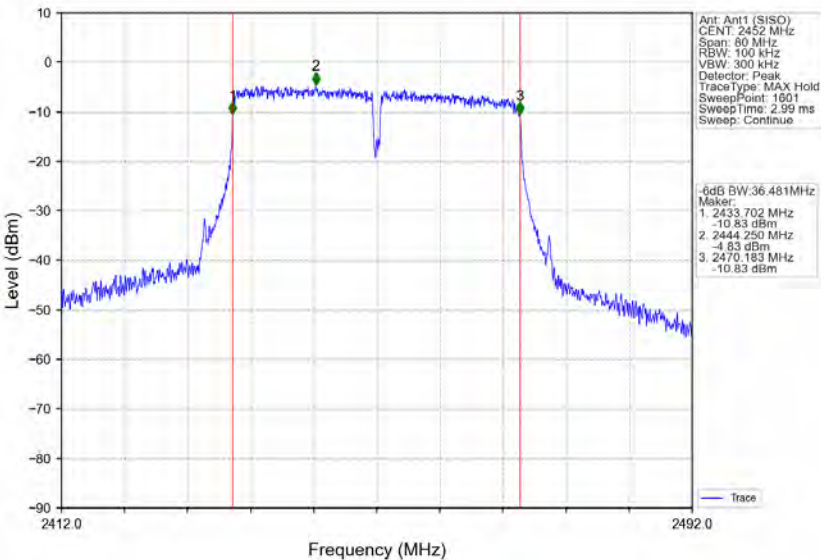
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTN



802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTN



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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	16.30	<=30	Pass
		2437	16.13	<=30	Pass
		2462	16.24	<=30	Pass
802.11g	SISO	2412	14.44	<=30	Pass
		2437	14.47	<=30	Pass
		2462	14.15	<=30	Pass
802.11n (HT20)	SISO	2412	13.26	<=30	Pass
		2437	13.33	<=30	Pass
		2462	13.09	<=30	Pass
802.11n (HT40)	SISO	2422	12.30	<=30	Pass
		2437	12.16	<=30	Pass
		2452	12.34	<=30	Pass

Note1: Antenna Gain: Ant1: 3.23dBi;

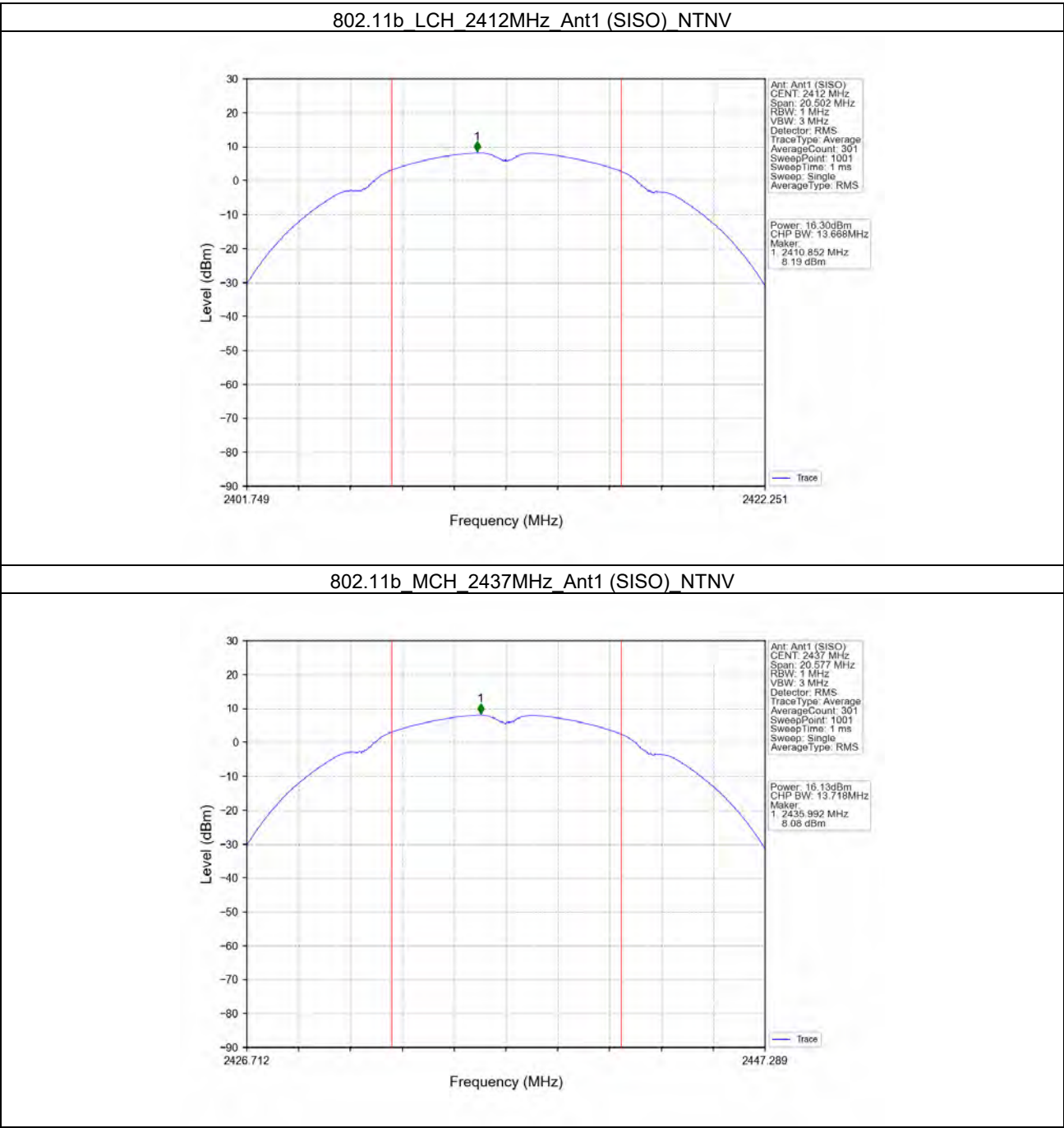


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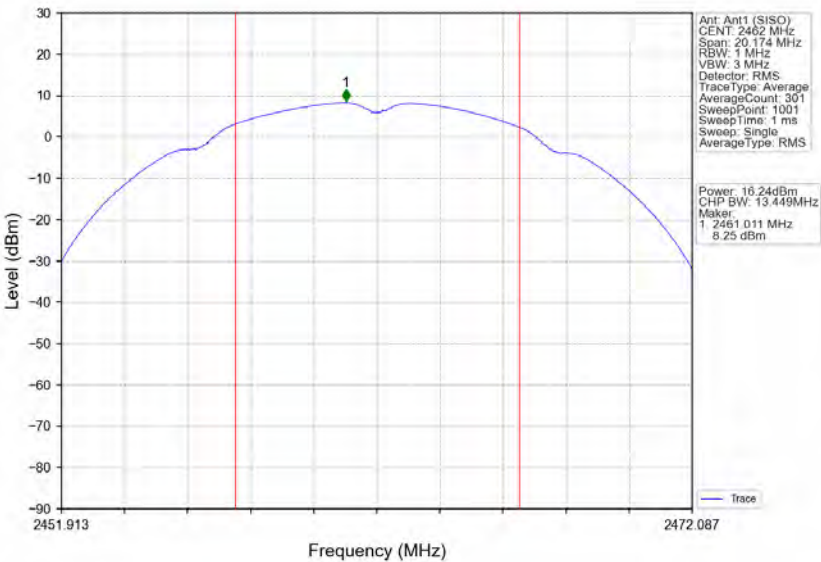
3.1.2 Test Graph



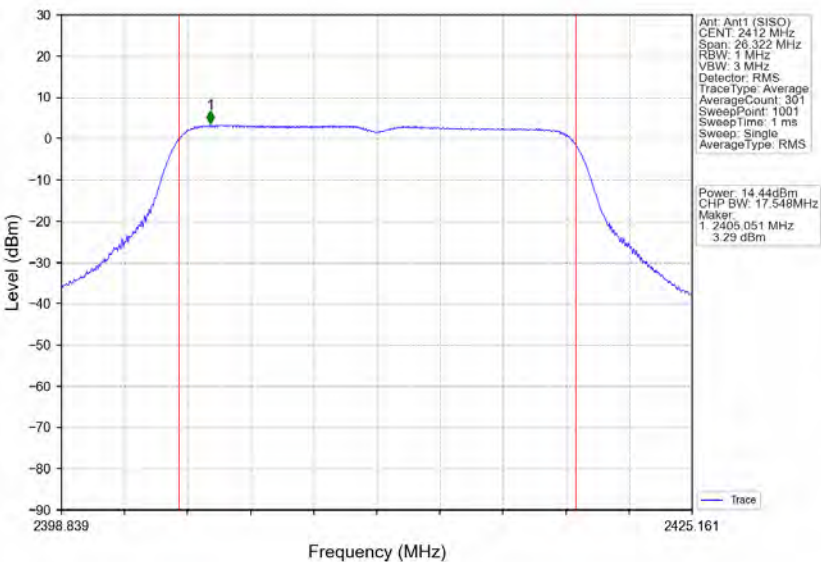
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802.11b HCH 2462MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant1 (SISO) NTN

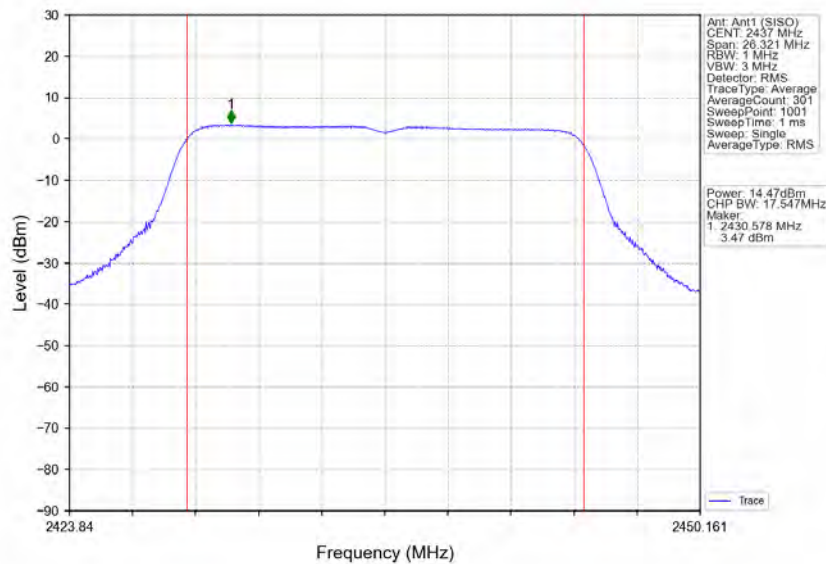


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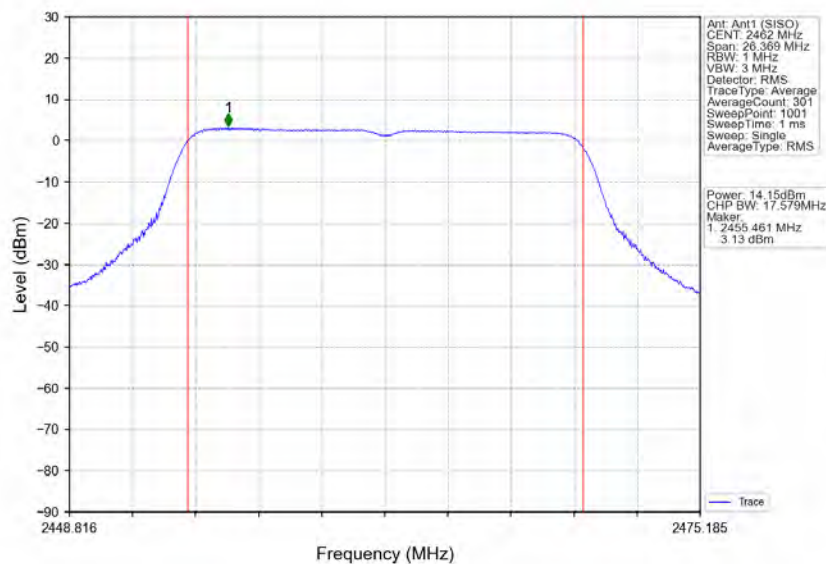
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802.11g MCH 2437MHz Ant1 (SISO) NTNv



802.11g HCH 2462MHz Ant1 (SISO) NTNv

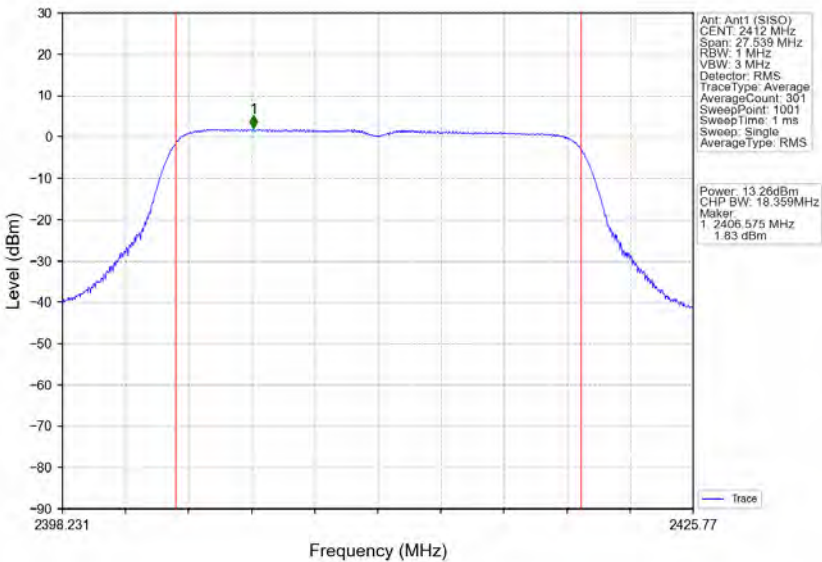


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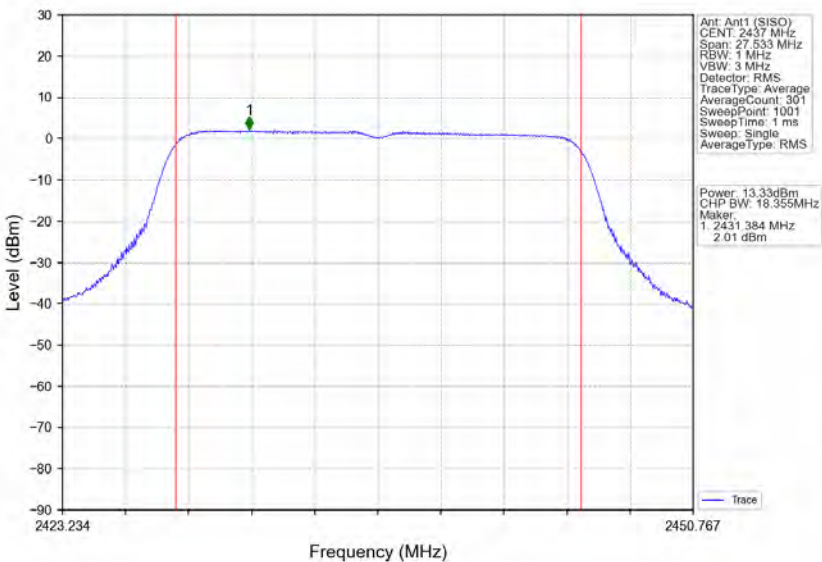
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



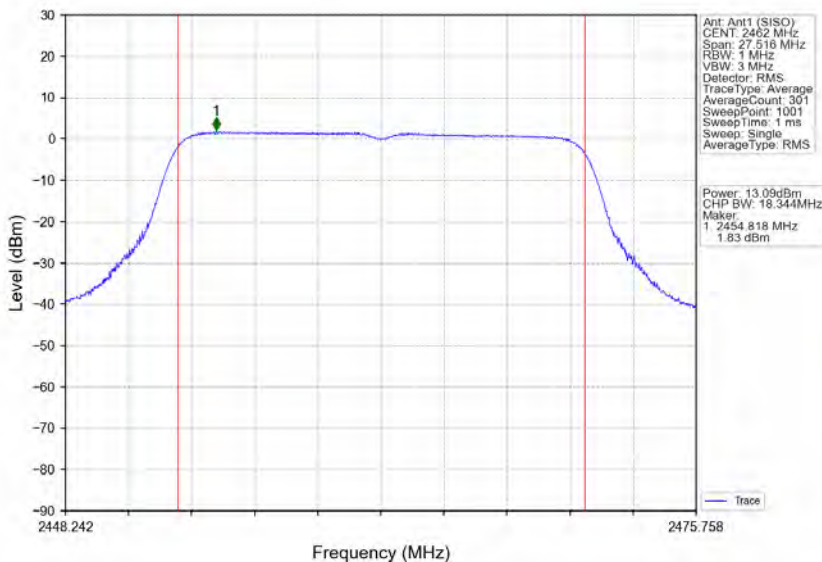
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



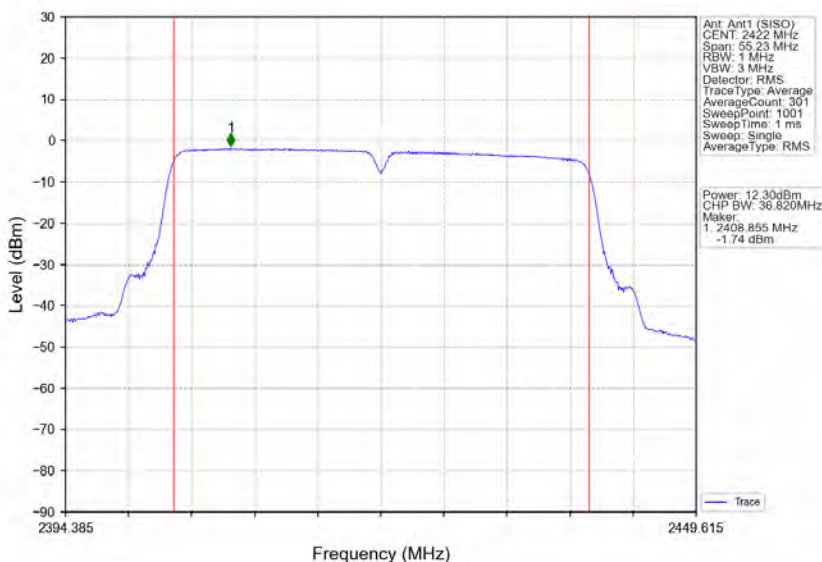
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



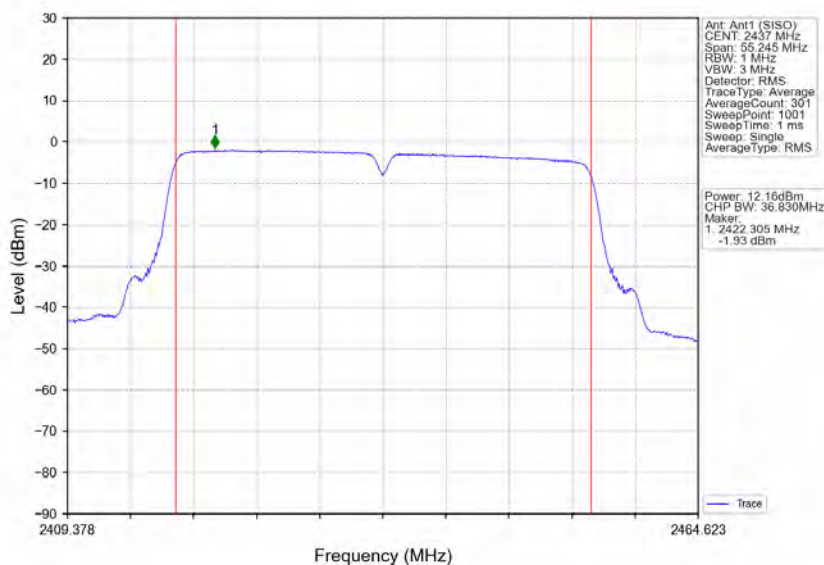
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



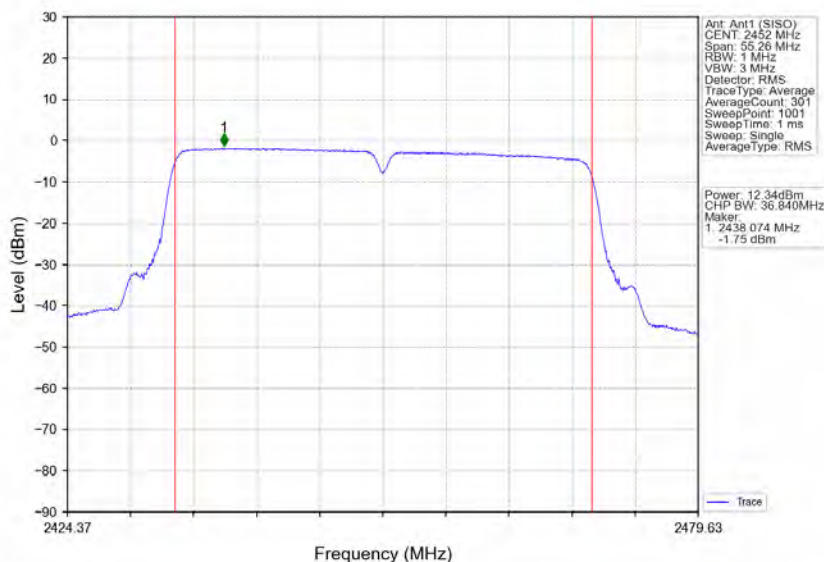
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



802.11n(HT40) HCH 2452MHz Ant1 (SISO) 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	Limit	
802.11b	SISO	2412	-13.72	<=8	Pass
		2437	-13.95	<=8	Pass
		2462	-13.77	<=8	Pass
802.11g	SISO	2412	-14.26	<=8	Pass
		2437	-14.11	<=8	Pass
		2462	-14.50	<=8	Pass
802.11n (HT20)	SISO	2412	-14.60	<=8	Pass
		2437	-15.14	<=8	Pass
		2462	-14.86	<=8	Pass
802.11n (HT40)	SISO	2422	-17.79	<=8	Pass
		2437	-18.19	<=8	Pass
		2452	-16.41	<=8	Pass

Note1: Antenna Gain: Ant1: 3.23dBi;

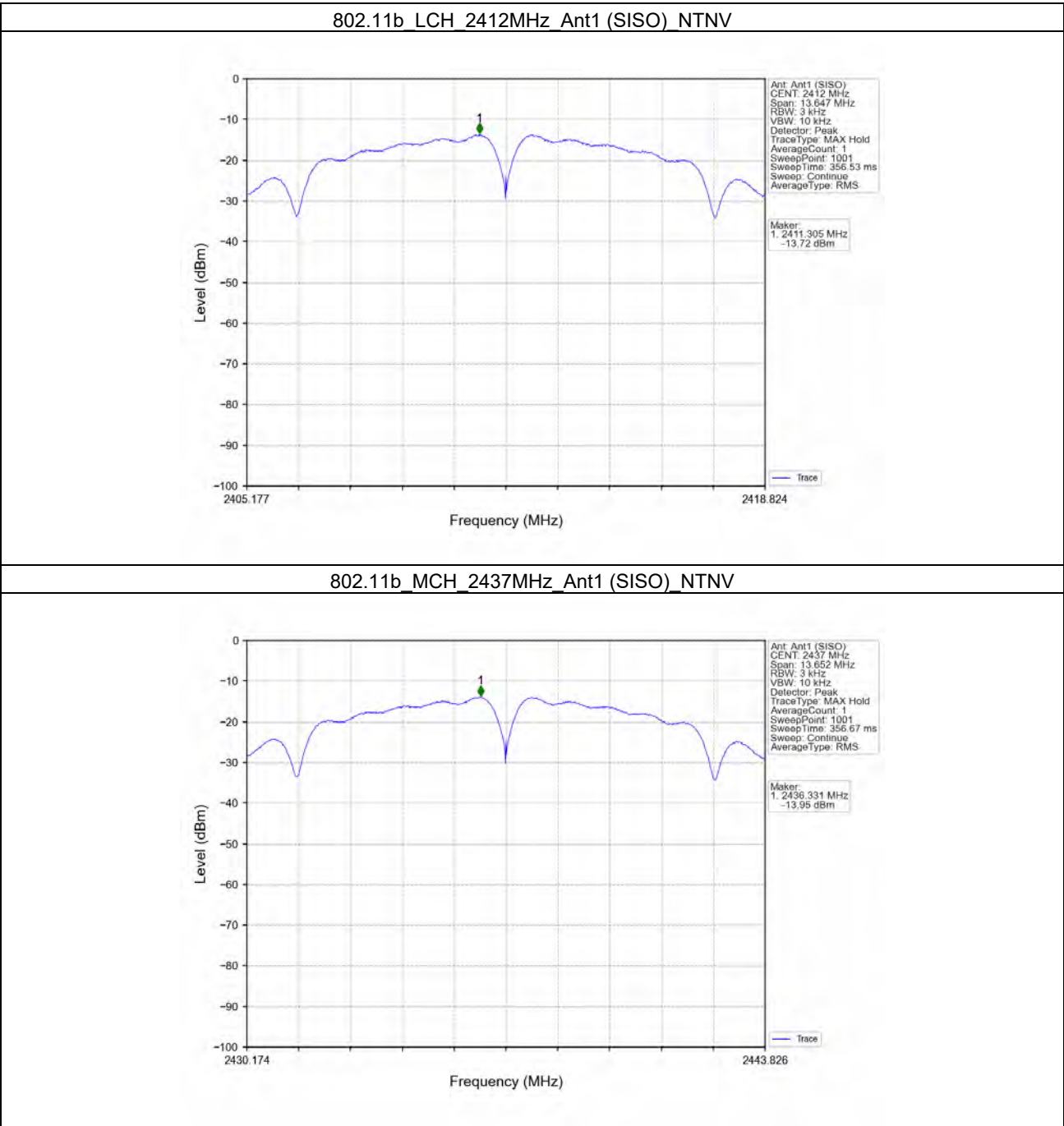


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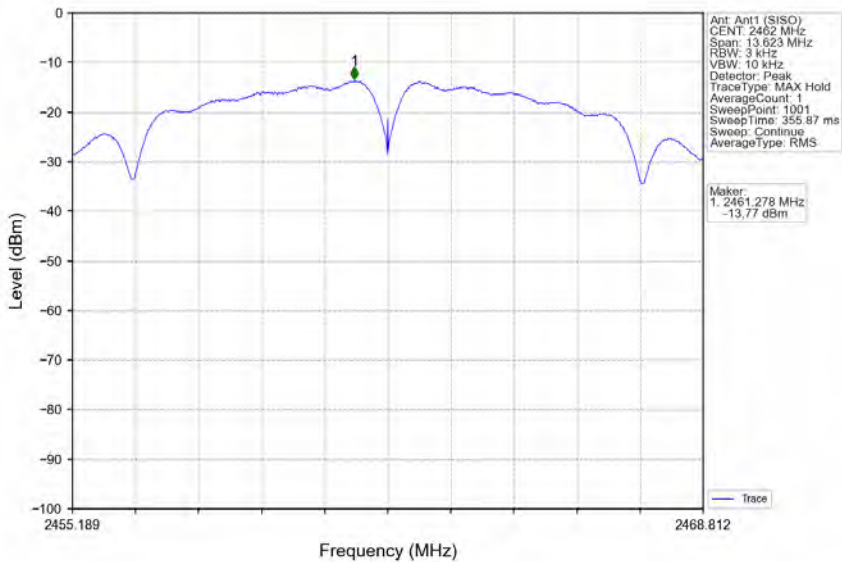
4.1.2 Test Graph



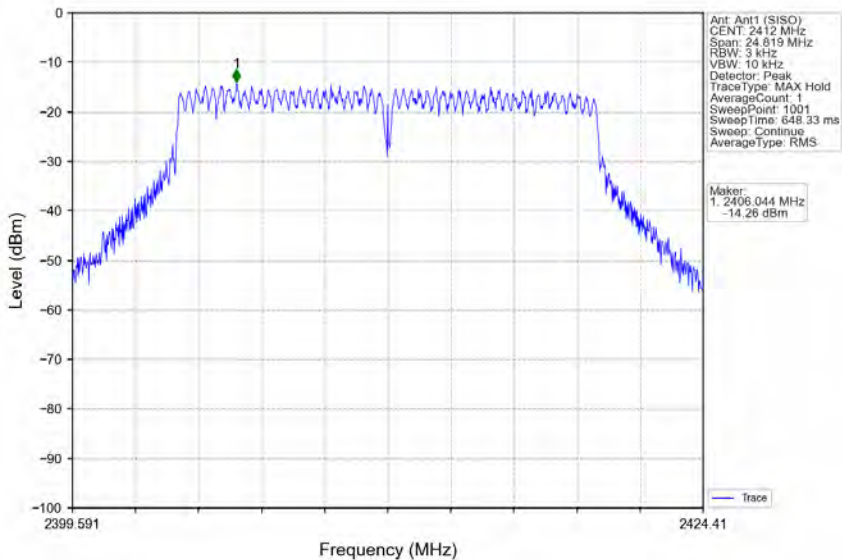
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802.11b HCH 2462MHz Ant1 (SISO) NTN



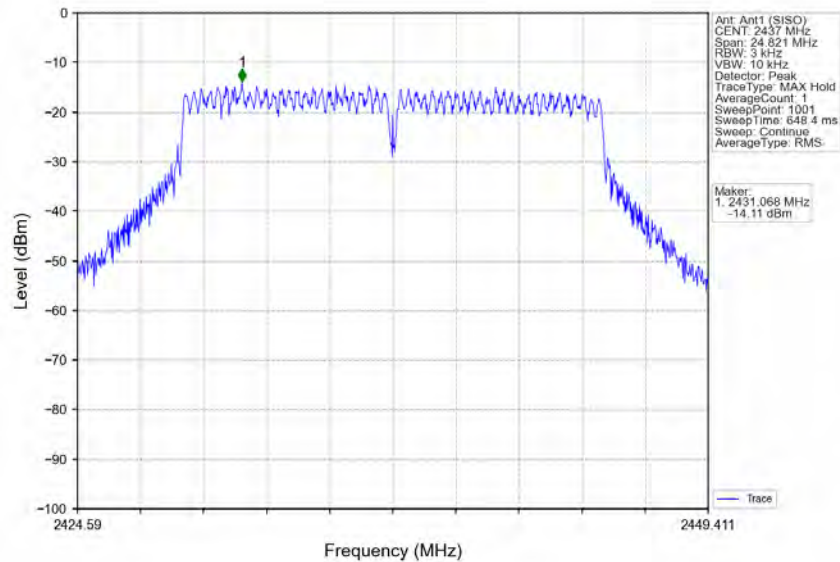
802.11g LCH 2412MHz Ant1 (SISO) NTN



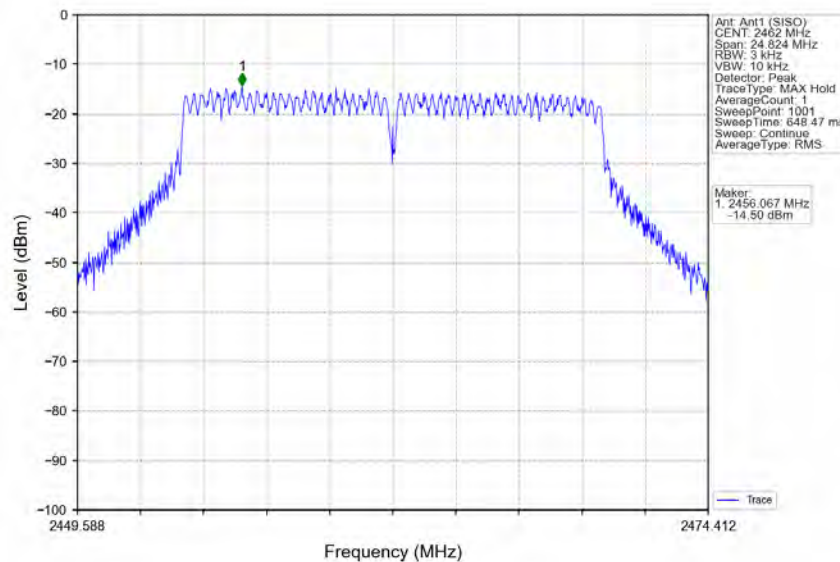
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802.11g MCH 2437MHz Ant1 (SISO) NTN



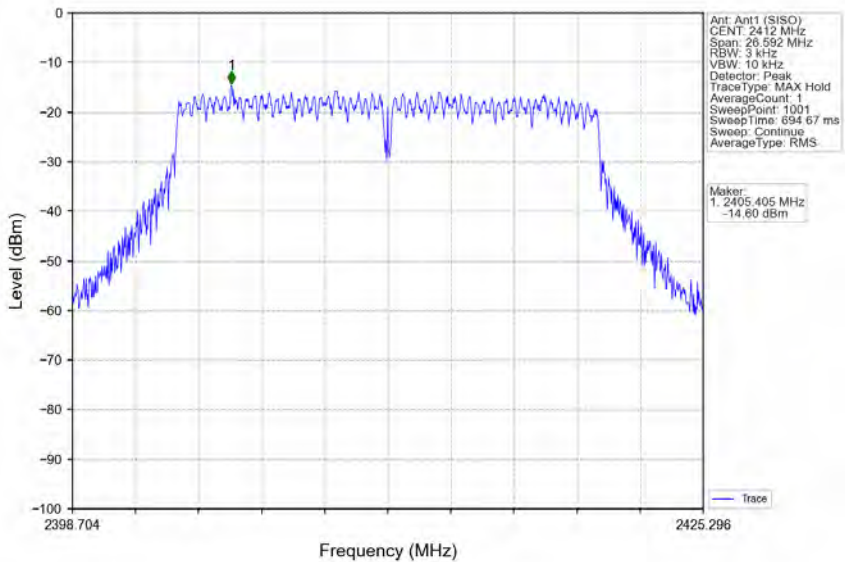
802.11g HCH 2462MHz Ant1 (SISO) NTN



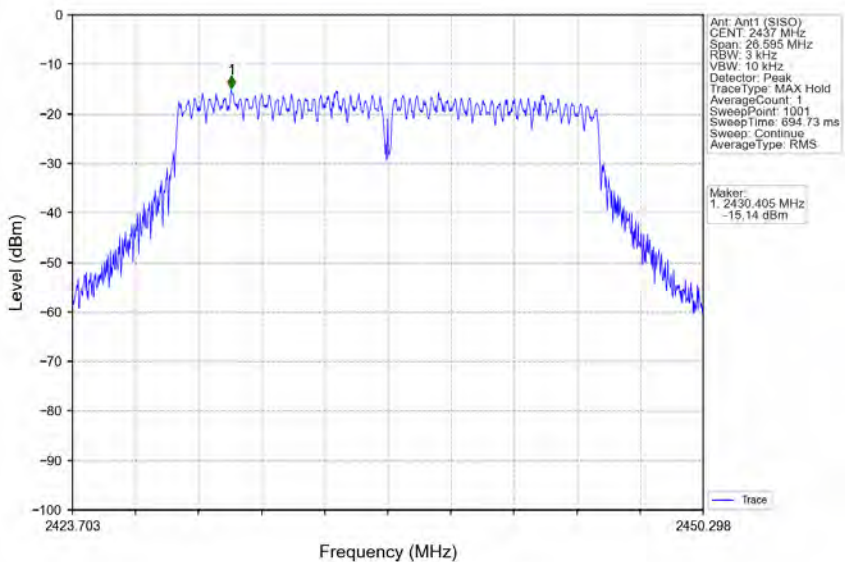
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



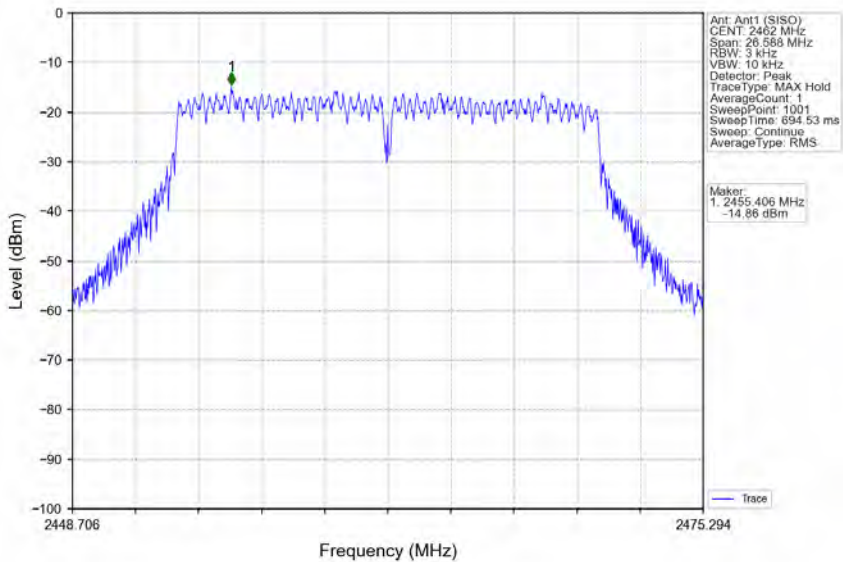
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



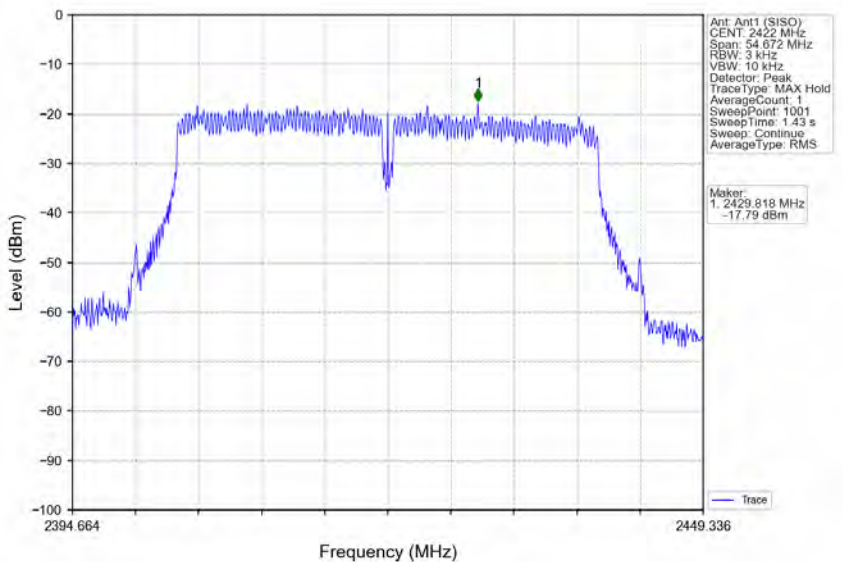
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV

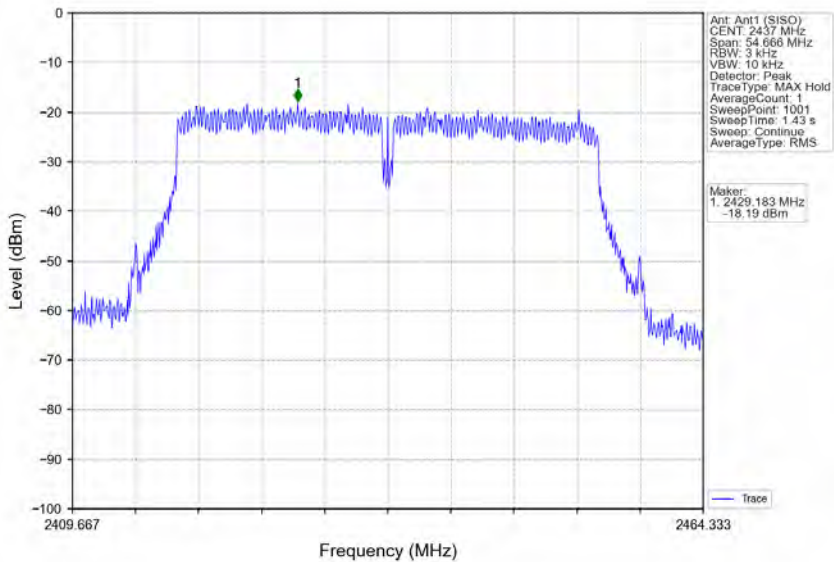


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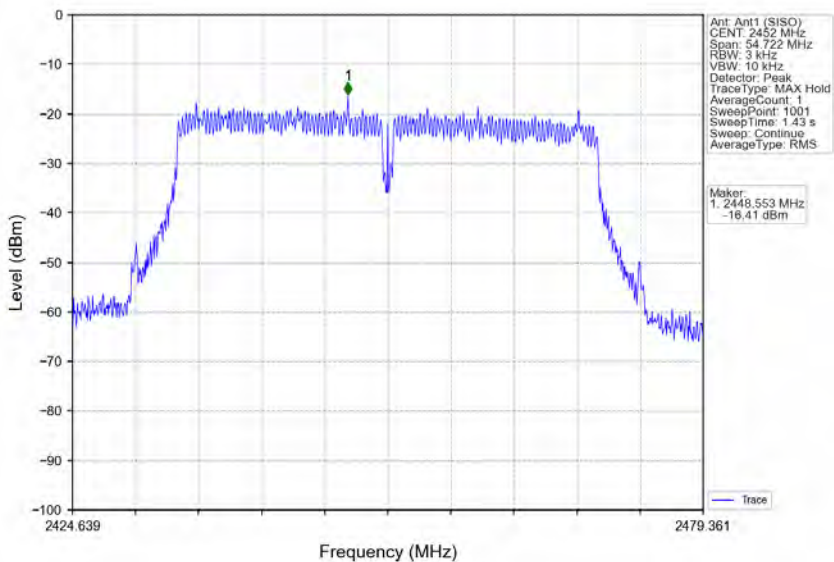
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTN



802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTN



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5. Unwanted Emissions In 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	6.60
		2437	1	6.46
		2462	1	6.67
802.11g	SISO	2412	1	0.04
		2437	1	0.03
		2462	1	-0.23
802.11n (HT20)	SISO	2412	1	-0.66
		2437	1	-0.51
		2462	1	-0.82
802.11n (HT40)	SISO	2422	1	-4.52
		2437	1	-5.02
		2452	1	-4.56

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.

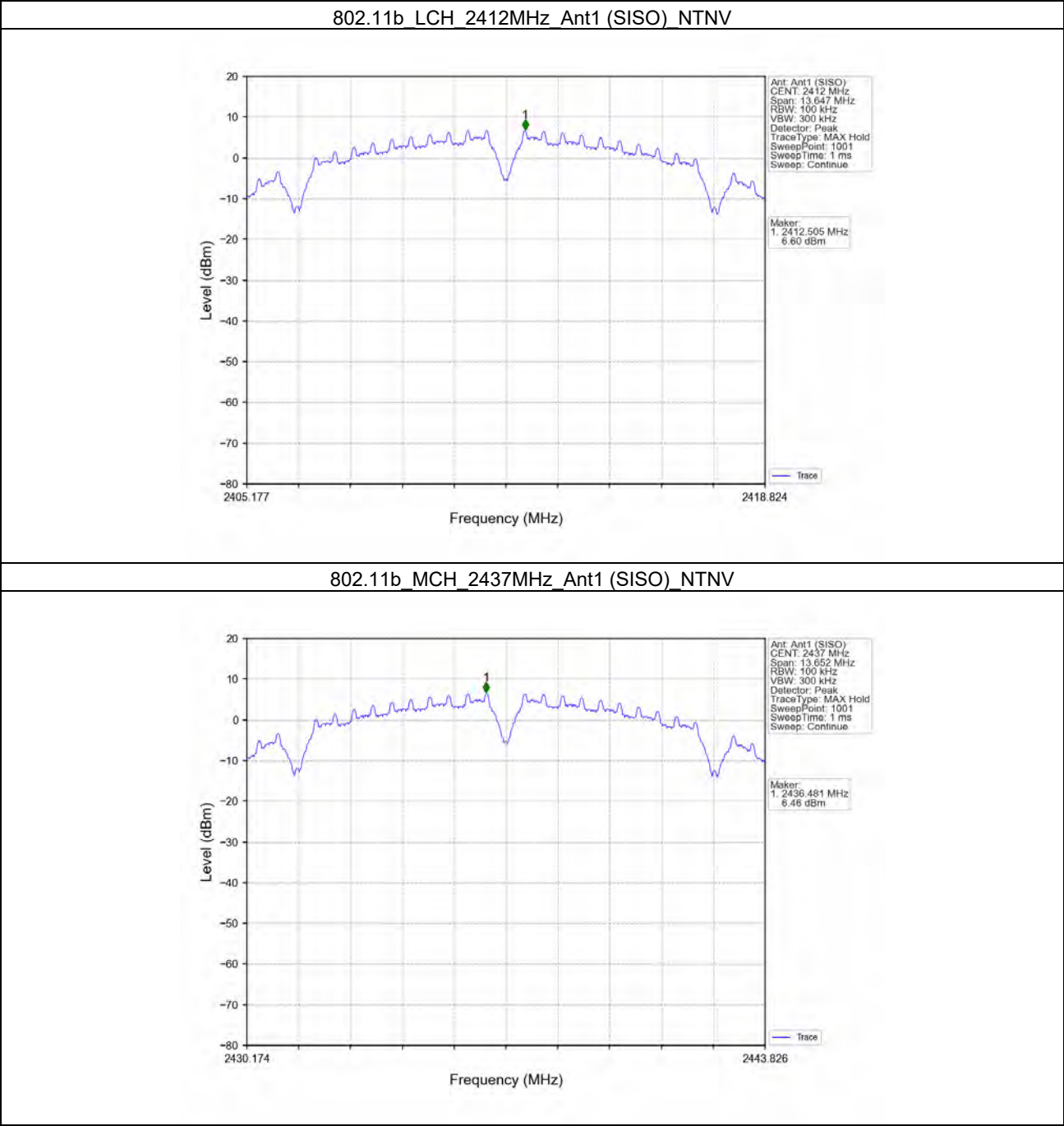


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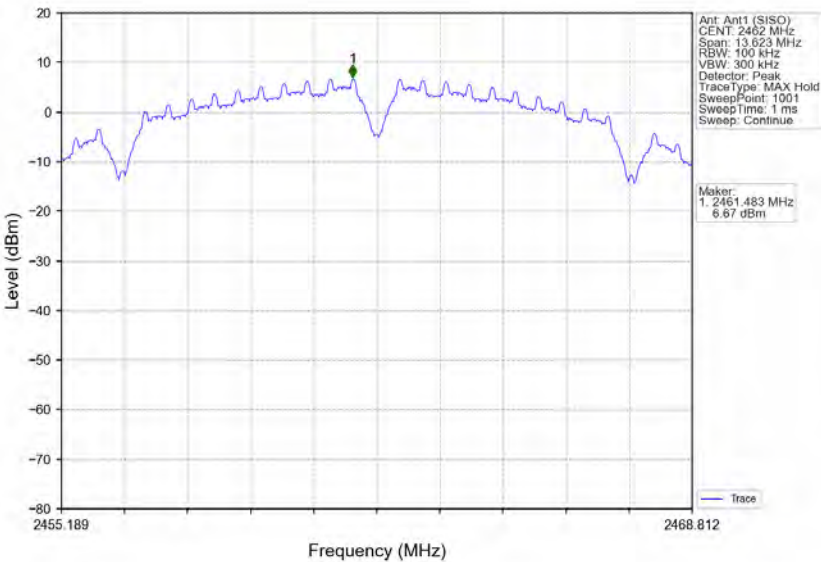
5.1.2 Test Graph



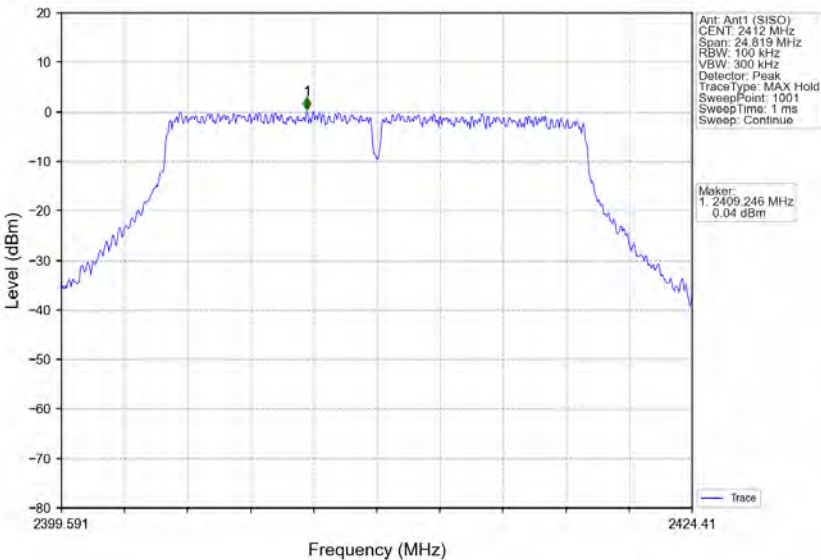
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802.11b HCH 2462MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant1 (SISO) NTN

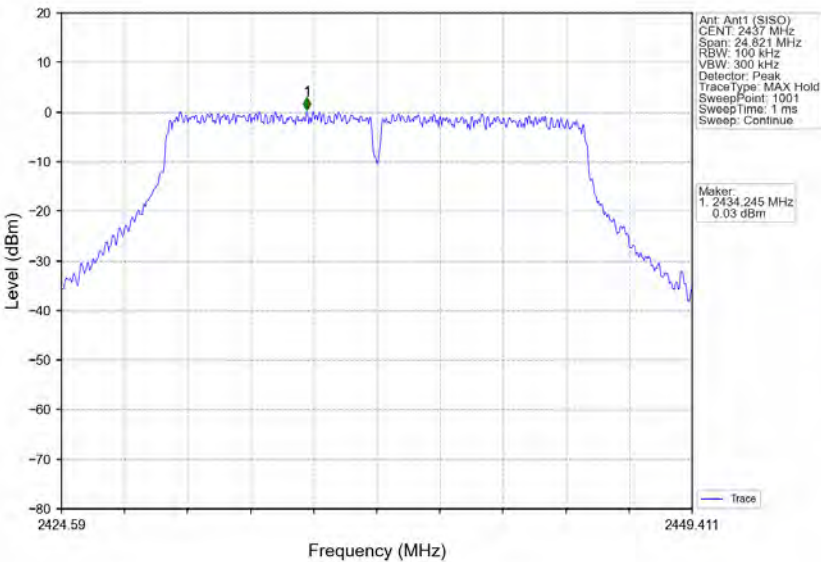


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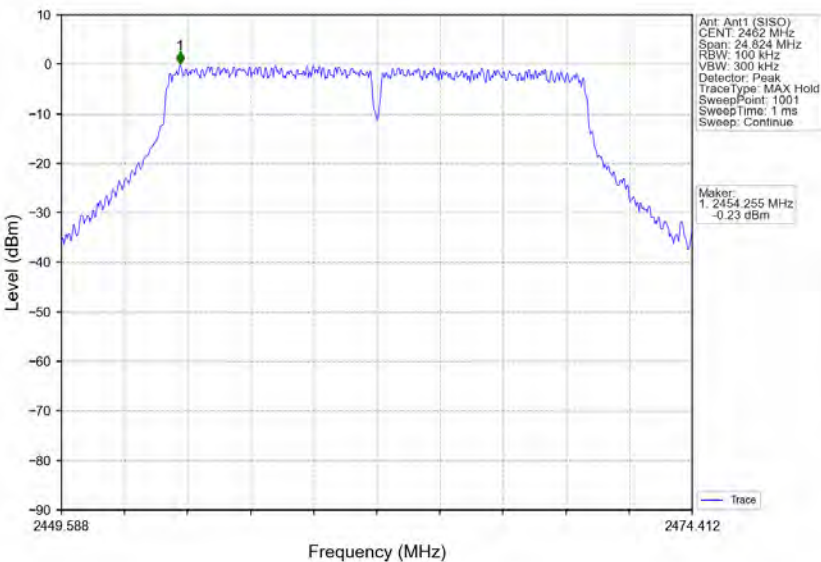
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802.11g MCH 2437MHz Ant1 (SISO) NTN



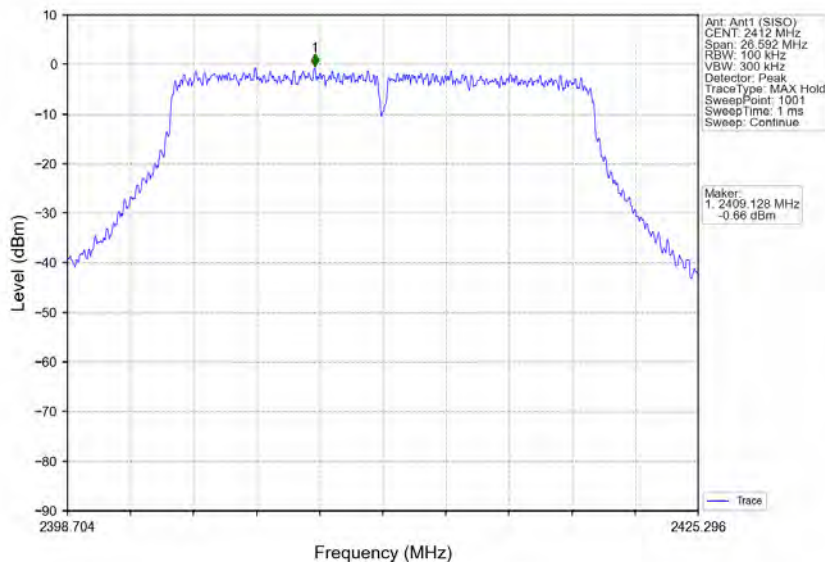
802.11g HCH 2462MHz Ant1 (SISO) NTN



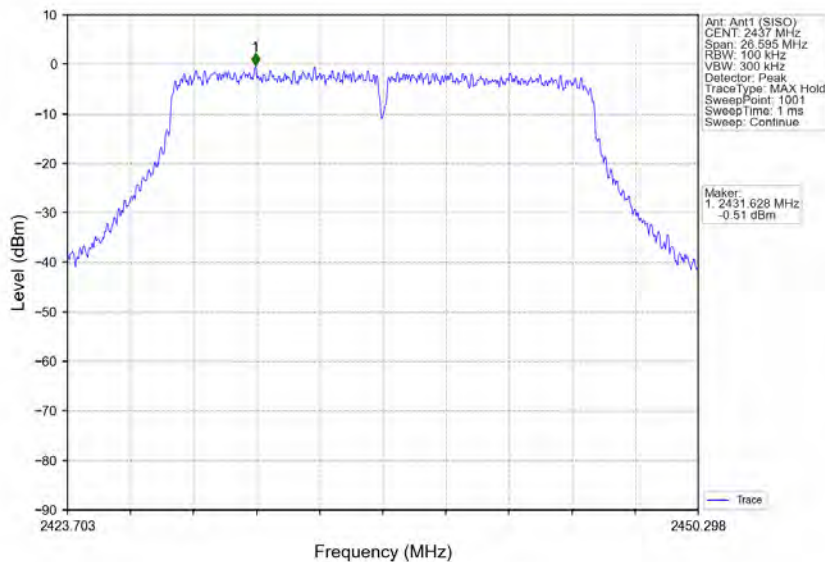
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV

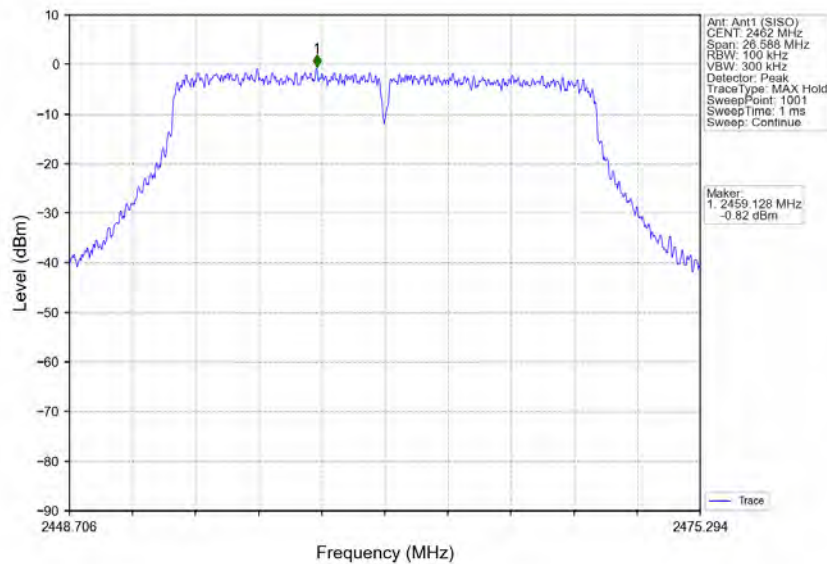


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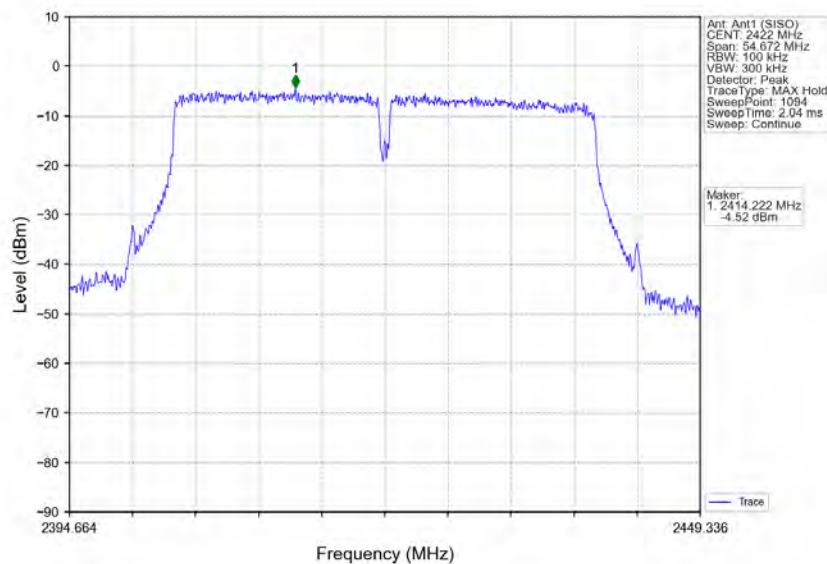
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV

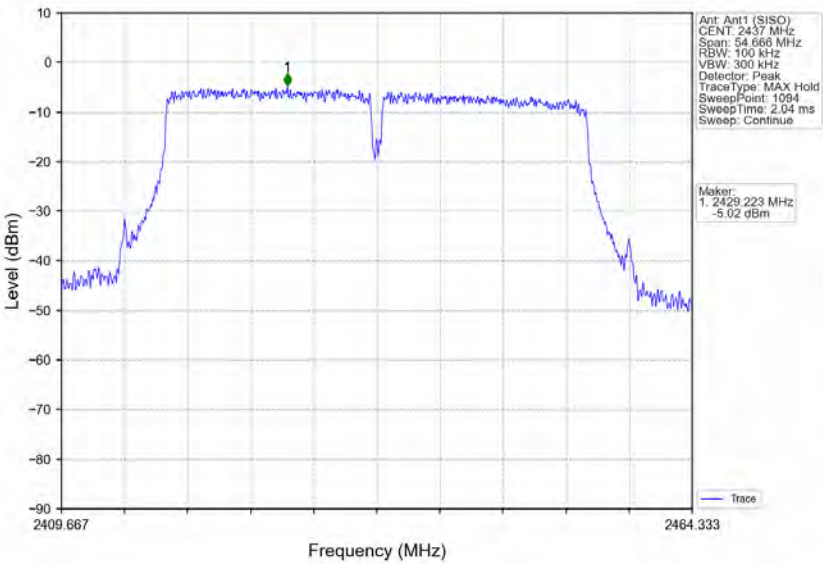


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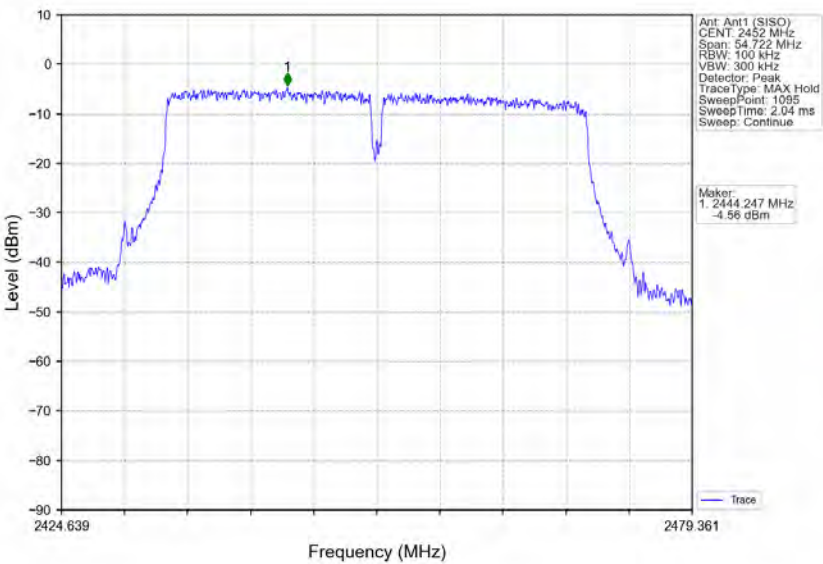
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTN



802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTN



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230400070301

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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	6.67	-23.33	Pass
		2437	1	6.67	-23.33	Pass
		2462	1	6.67	-23.33	Pass
802.11g	SISO	2412	1	0.04	-29.96	Pass
		2437	1	0.04	-29.96	Pass
		2462	1	0.04	-29.96	Pass
802.11n (HT20)	SISO	2412	1	-0.51	-30.51	Pass
		2437	1	-0.51	-30.51	Pass
		2462	1	-0.51	-30.51	Pass
802.11n (HT40)	SISO	2422	1	-4.52	-34.52	Pass
		2437	1	-4.52	-34.52	Pass
		2452	1	-4.52	-34.52	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.

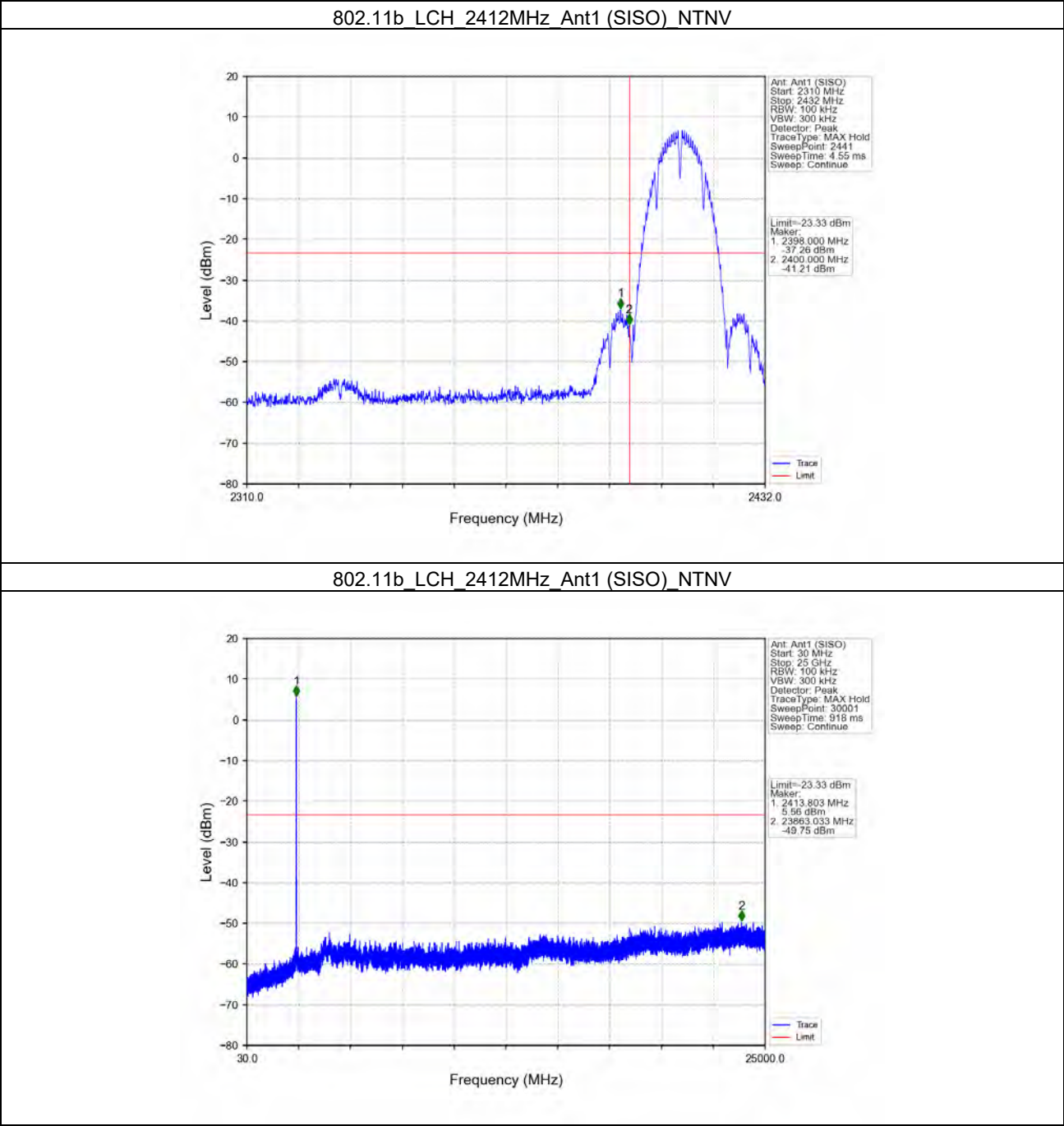


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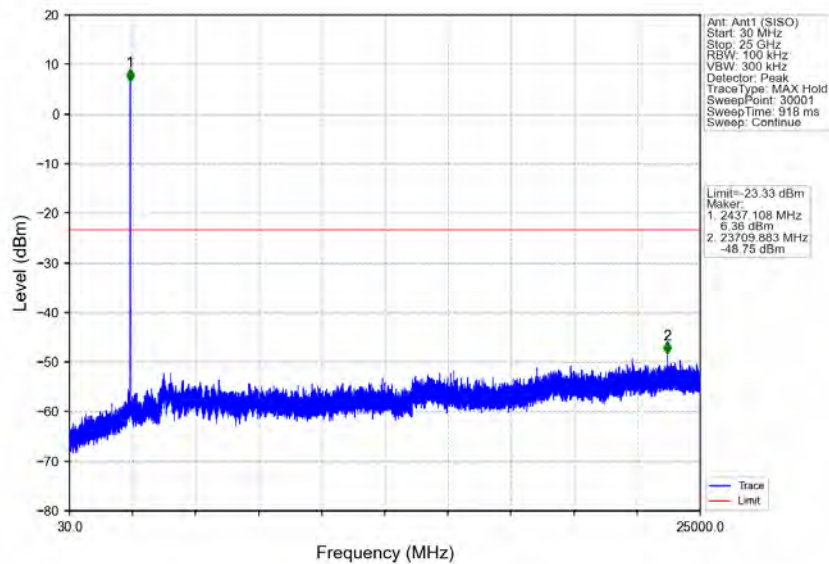
5.2.2 Test Graph



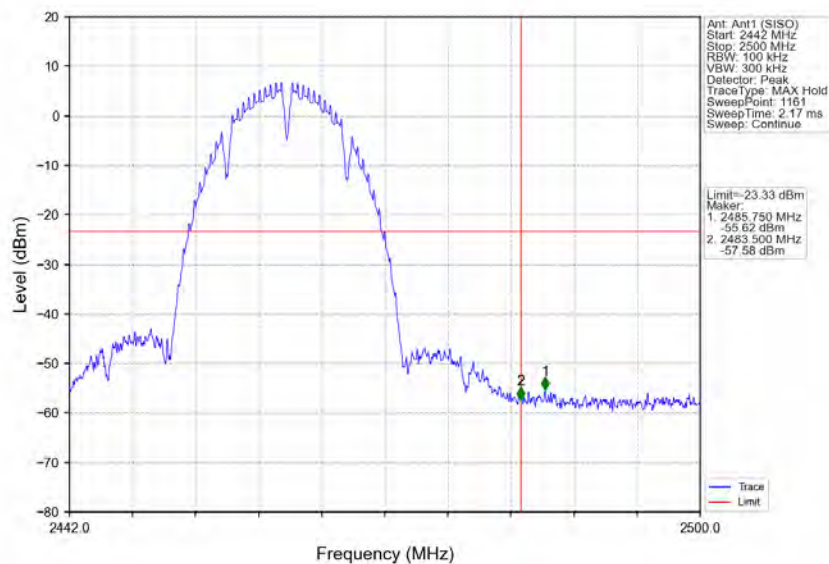
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802.11b MCH 2437MHz Ant1 (SISO) NTN



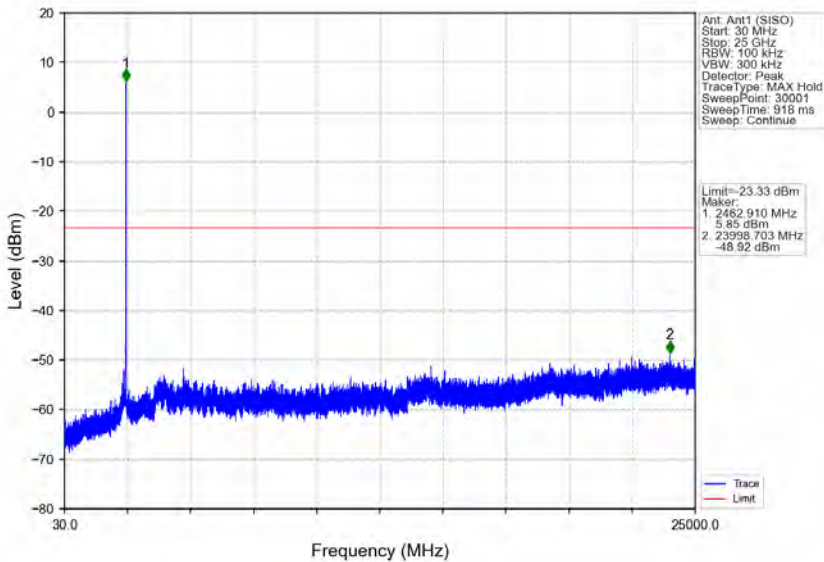
802.11b HCH 2462MHz Ant1 (SISO) NTN



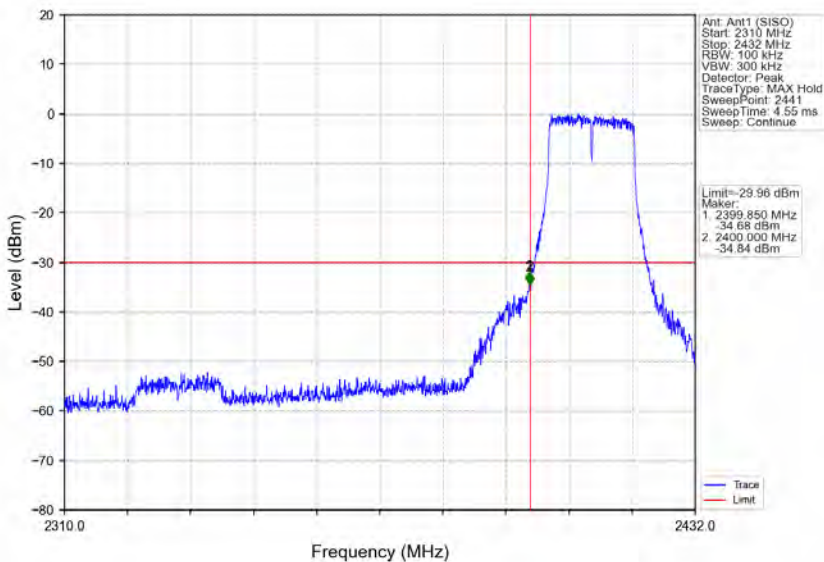
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802.11b HCH 2462MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant1 (SISO) NTN

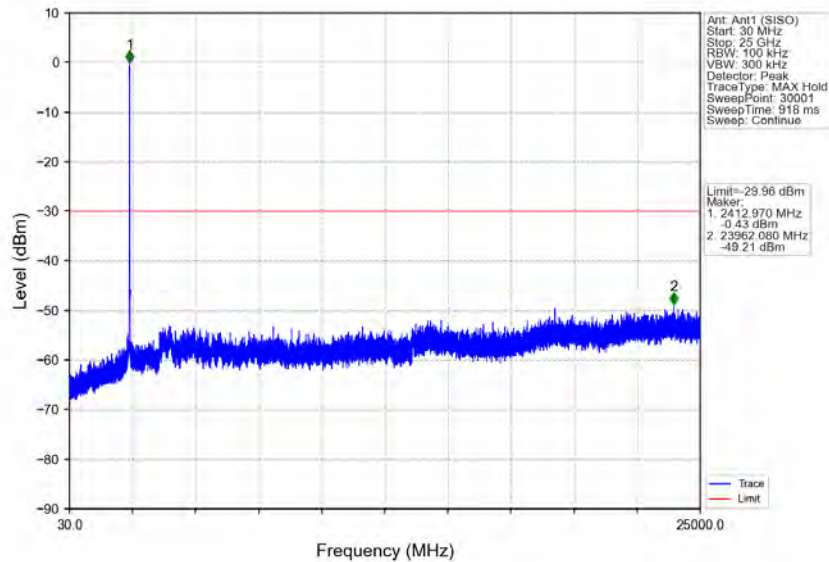


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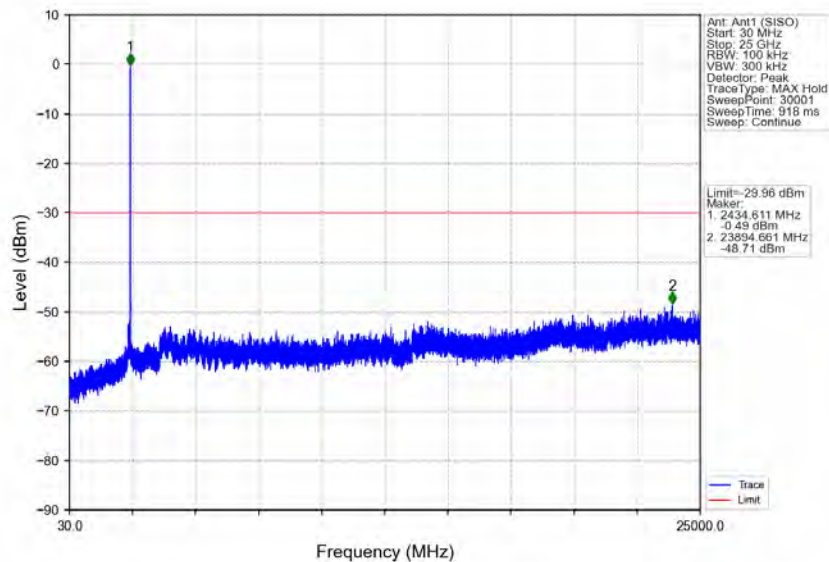
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802.11g LCH 2412MHz Ant1 (SISO) NTN



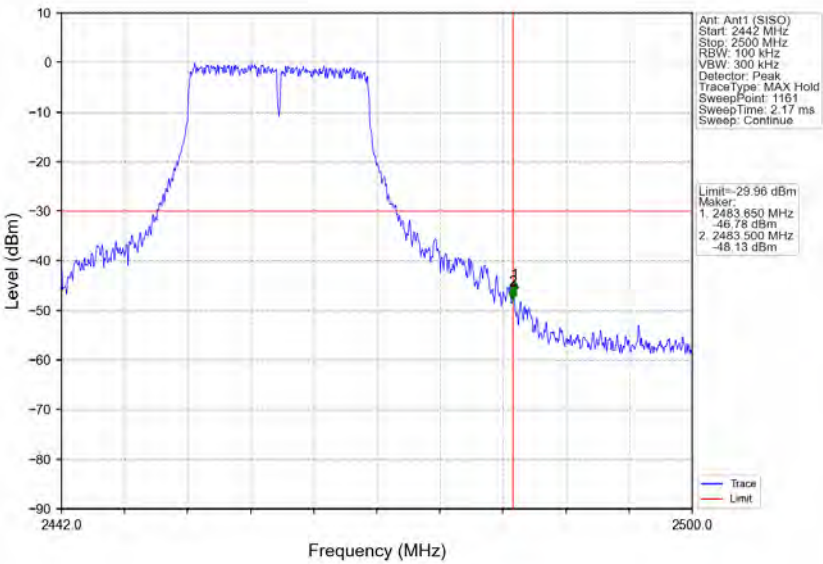
802.11g MCH 2437MHz Ant1 (SISO) NTN



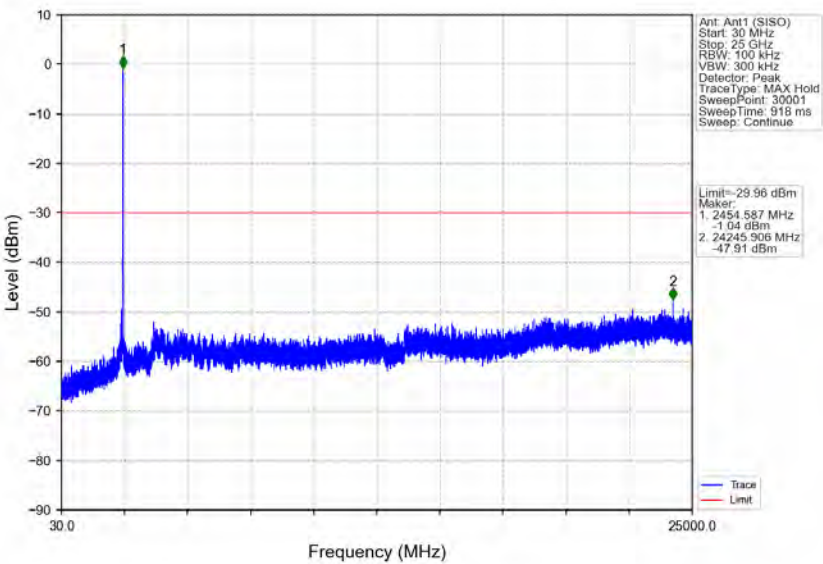
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802.11g HCH 2462MHz Ant1 (SISO) NTN



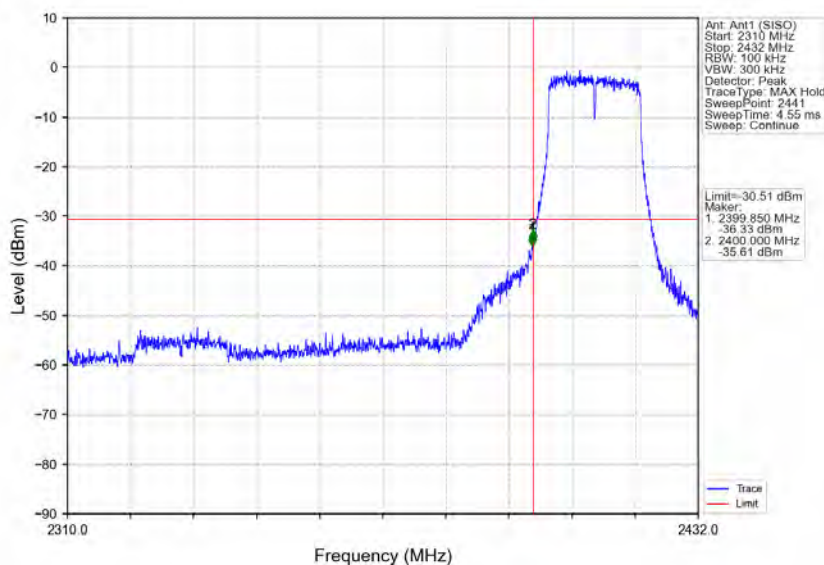
802.11g HCH 2462MHz Ant1 (SISO) NTN



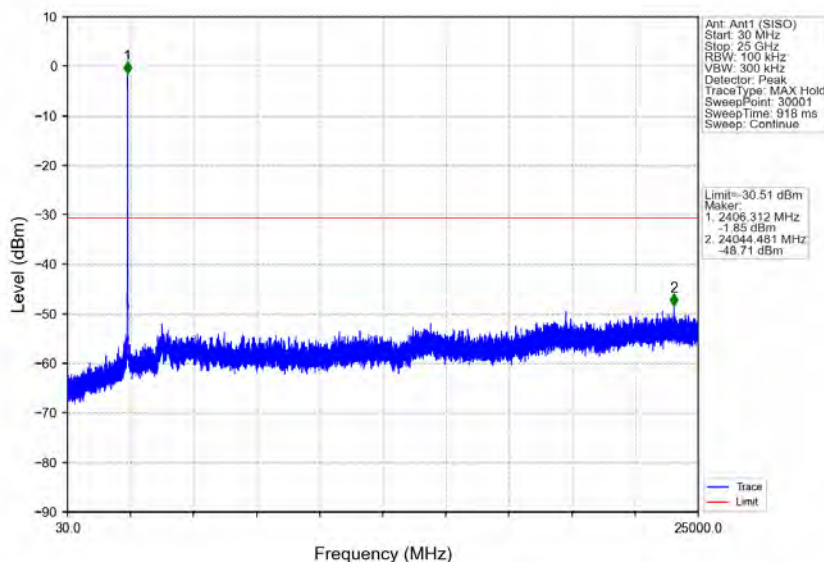
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO) NTNv



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO) NTNv

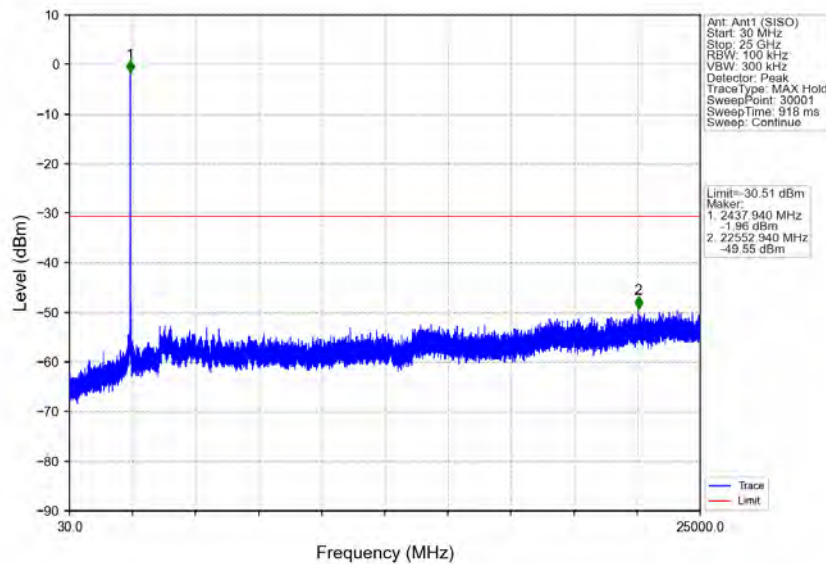


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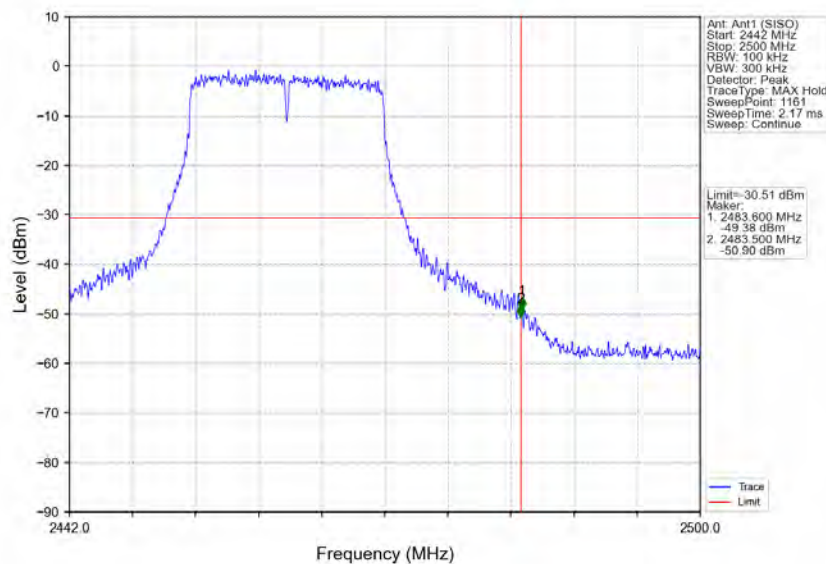
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802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV

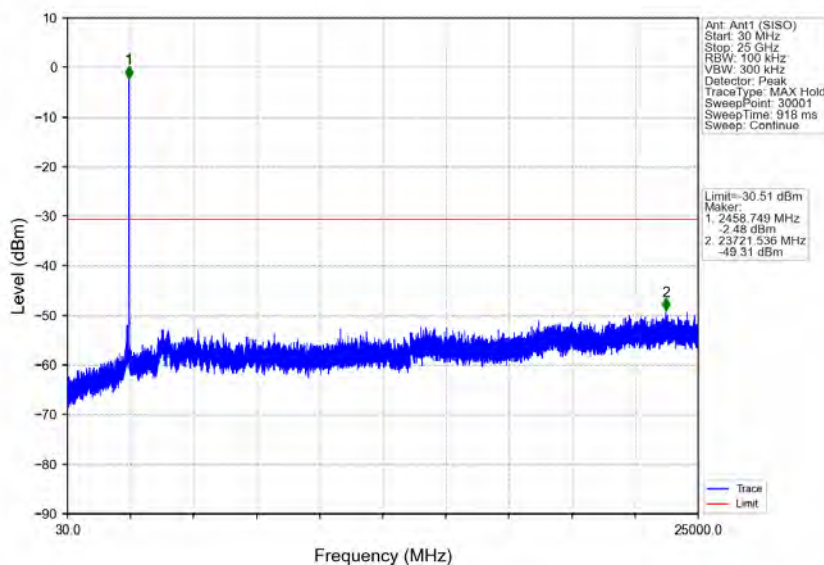


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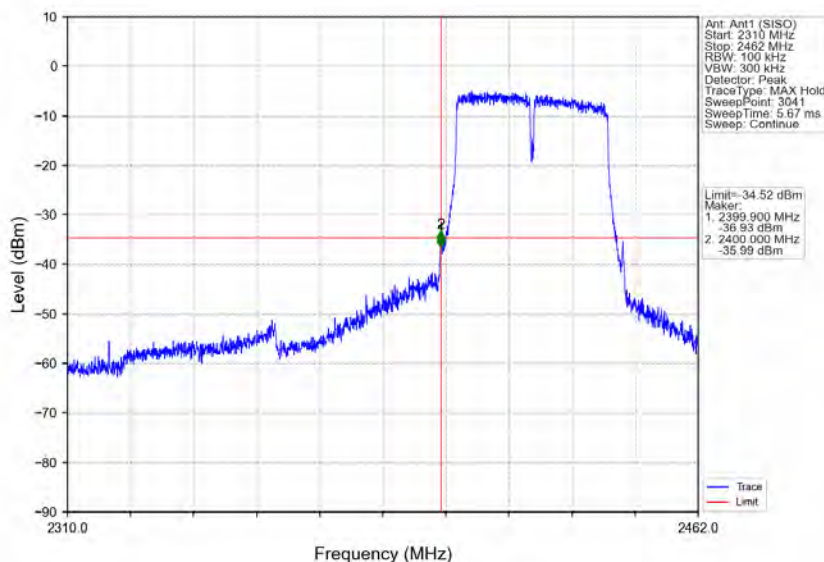
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV

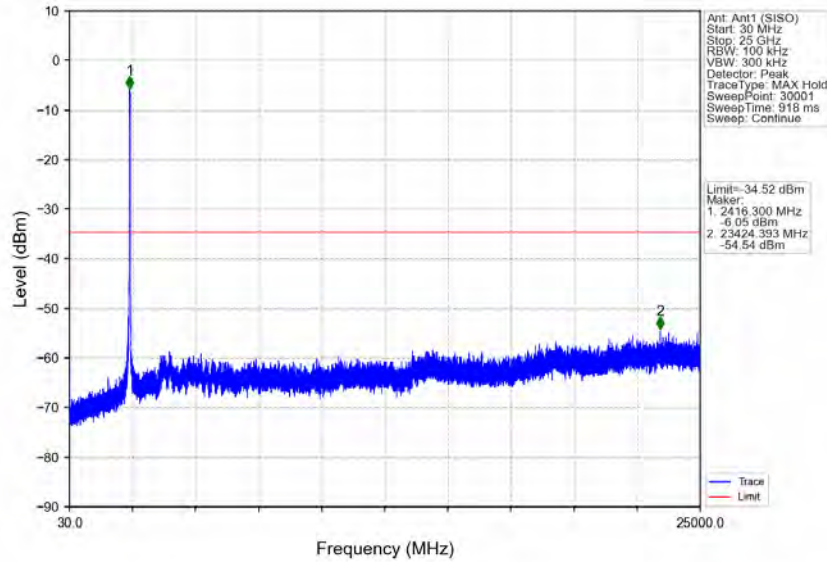


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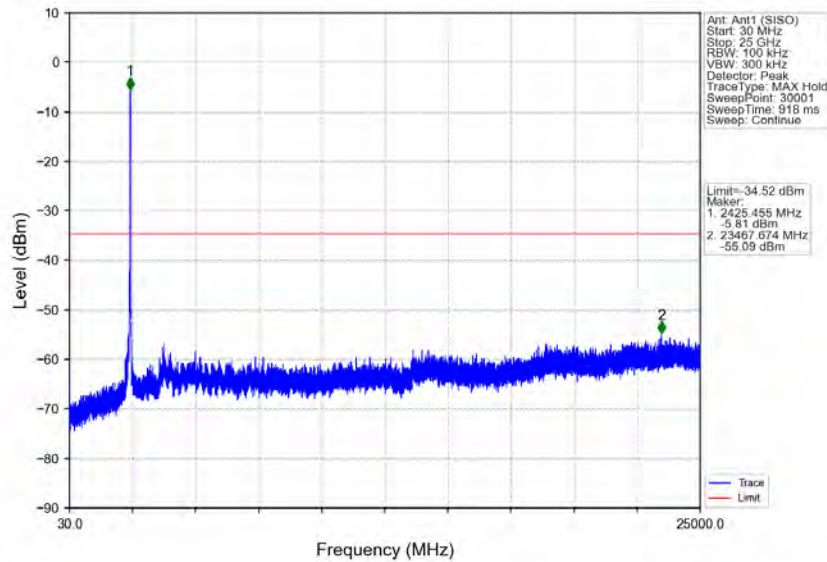
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802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV

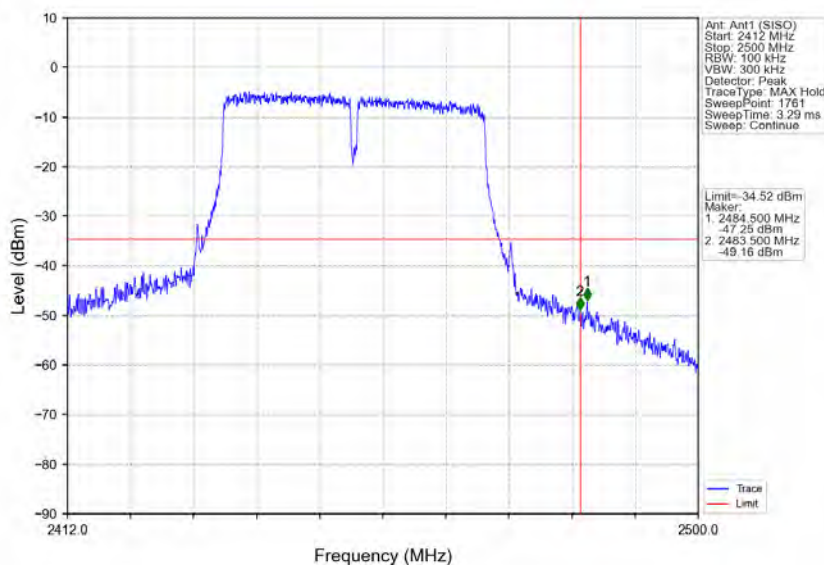


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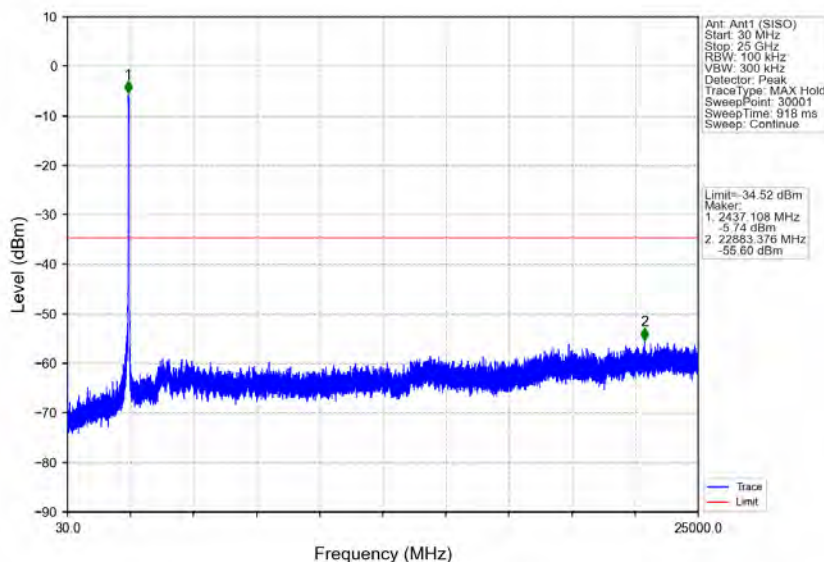
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802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



- End of the Report -



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