



Compliance Certification Services (Kunshan) Inc.

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

Report No.: KSCR240700134201

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TEST REPORT

Application No.: KSCR2407001342AT
FCC ID: 2AL8S-0235C8KY
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 System Technology Co., Ltd.
Address of Factory: No.1277 Qingfeng South Road(South), Tongxiang Economic Development Zone, Tongxiang City, Jiaxing City, 314500, Zhejiang, China
Equipment Under Test (EUT):
EUT Name: IP Camera
Model No.: Uho-S3S-M33D,Uho-S3S-xxxxxxx-yyy-yyyy-zzz (where x, y, z may be 0-9 A-Z a-z or blank, or -. "-" is optional. The differences no impact safety related constructionsand EMC)
♣ 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: 2024-07-15
Date of Test: 2024-07-16 to 2024-07-30
Date of Issue: 2024-07-31

Test Result:

Pass*

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

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Revision Record			
Version	Description	Date	Remark
00	Original	2024-07-31	/

Authorized for issue by:			
Tested By		Maker Qi	
		Maker_Qi/Project Engineer	
Approved By		Terry Hou	
		Terry Hou /Reviewer	

2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted 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
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
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	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

Model No.: Uho-S3S-M33D,Uho-S3S-xxxxxxx-yyyyyyy-zzz (where x, y, z may be 0-9 A-Z a-z or blank, or "-" is optional. The differences no impact safety related constructionsand EMC)

Only the model Uho-S3S-M33D was tested.

There are series models mentioned in this report, and they are identical in electrical and electronic characters. Only the model Uho-S3S-M33D was tested since their differences were the model number and appearance.

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4 General Information

4.1 Details of E.U.T.

Power supply:	Power Adapter1: Model: S010-1A050150VUU INPUT: 100~240V~,50/60Hz,0.3A OUTPUT: 5.0V/1.5A Power Adapter2: Model: TPA-141A050150UU01 INPUT: 100~240V~,50/60Hz,0.3A OUTPUT: 5.0V/1.5A
Test voltage:	AC 120V/60Hz
Operation Frequency:	802.11b/g/n(HT20)/ax(HEW20): 2412MHz to 2462MHz;802.11n(HT40)/ax(HEW40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK); 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK), 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Number of Channels:	802.11b/g/n(HT20)/ax(HEW20):11;802.11n(HT40)/ax(HEW40):7
Channel Spacing:	5MHz
Antenna Type:	Internal antenna
Antenna Gain:	3.94dBi (Provided by manufacturer)

4.2 Power level setting using in test

Channel	802.11b	802.11g	802.11n(HT20)	802.11ax(HEW20)
	Ant 1	Ant 1	Ant 1	Ant 1
1	Default	Default	Default	Default
6	Default	Default	Default	Default
11	Default	Default	Default	Default
Channel	802.11n(HT40)	802.11ax(HEW40)		
	Ant 1	Ant 1		
3	Default	Default		
6	Default	Default		
9	Default	Default		

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC Adapter	/	/	/
Notebook	LENOVO	K27	EB24537645

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4.4 Measurement Uncertainty

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

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

4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

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

No tests were sub-contracted.

Note:

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

4.6 Test Facility

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

- **A2LA**

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

- **FCC**

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

- **ISED**

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

- **VCCI**

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

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

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

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 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 Internal antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.94 dBi.

Antenna location: Refer to internal photo.

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: 25.2 °C

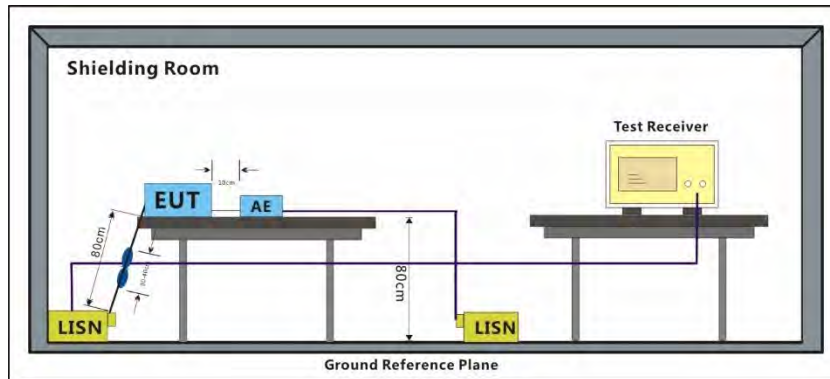
Humidity: 51.6 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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

Remark 2: The EUT has two different types of adapters: the Power Adapter1 (S010-1A050150VUU) and the Power Adapter2 (TPA-141A050150UU01), both of which were pre-tested. Power Adapter1 is identified as the worst case, and only the worst results are reflected in the report.

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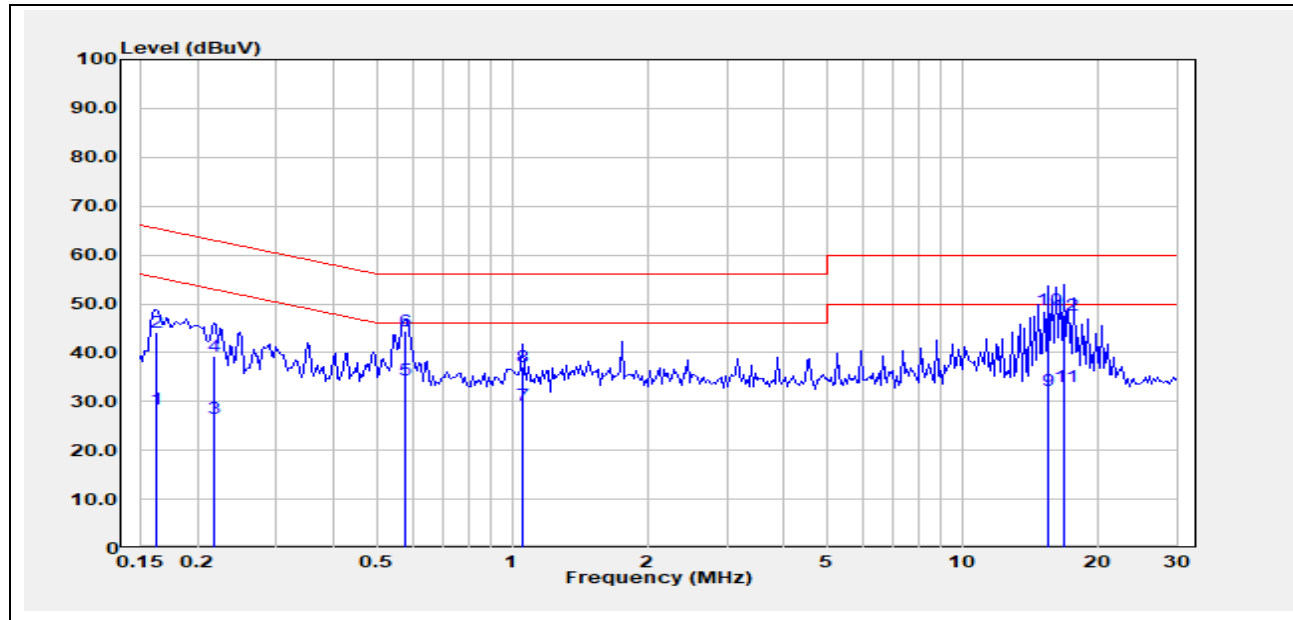
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Test Mode: 00; Line: Live line

Test Data :



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1621	8.21	20.20	28.41	55.35	-26.94	Average
2	0.1621	24.06	20.20	44.26	65.35	-21.09	QP
3	0.2179	6.39	20.06	26.45	52.90	-26.45	Average
4	0.2179	19.29	20.06	39.35	62.90	-23.55	QP
5	0.5786	14.42	19.91	34.33	46.00	-11.67	Average
6	0.5786	24.43	19.91	44.34	56.00	-11.66	QP
7	1.0570	9.41	19.87	29.28	46.00	-16.72	Average
8	1.0570	17.16	19.87	37.03	56.00	-18.97	QP
9	15.5020	12.47	19.74	32.21	50.00	-17.79	Average
10	15.5020	29.11	19.74	48.85	60.00	-11.15	QP
11	16.9200	13.31	19.75	33.06	50.00	-16.94	Average
12	16.9200	28.05	19.75	47.80	60.00	-12.20	QP

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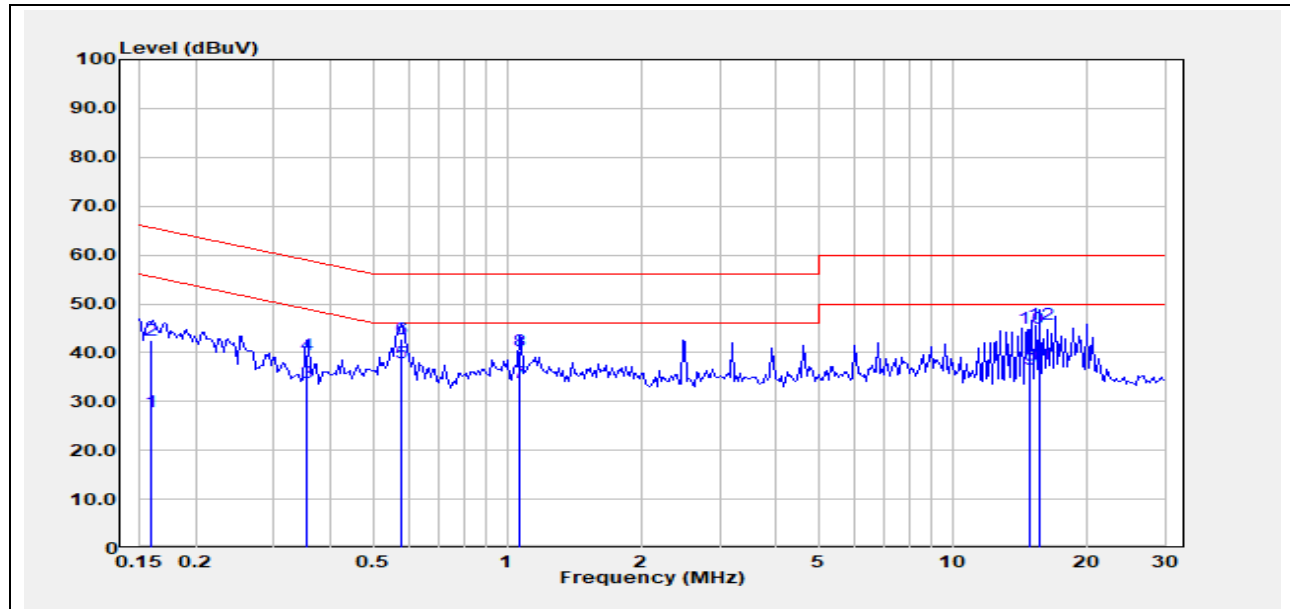
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Test Mode: 00; Line: Neutral Line

Test Data :



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1583	7.75	20.17	27.92	55.55	-27.63	Average
2	0.1583	22.33	20.17	42.50	65.55	-23.05	QP
3	0.3541	13.87	20.10	33.97	48.87	-14.90	Average
4	0.3541	19.49	20.10	39.59	58.87	-19.28	QP
5	0.5763	18.05	19.89	37.94	46.00	-8.06	Average
6	0.5763	22.81	19.89	42.70	56.00	-13.30	QP
7	1.0700	13.99	19.91	33.90	46.00	-12.10	Average
8	1.0700	20.50	19.91	40.41	56.00	-15.59	QP
9	14.9750	16.88	19.84	36.72	50.00	-13.28	Average
10	14.9750	25.17	19.84	45.01	60.00	-14.99	QP
11	15.6910	17.84	19.84	37.68	50.00	-12.32	Average
12	15.6910	26.03	19.84	45.87	60.00	-14.13	QP

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7.2 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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C

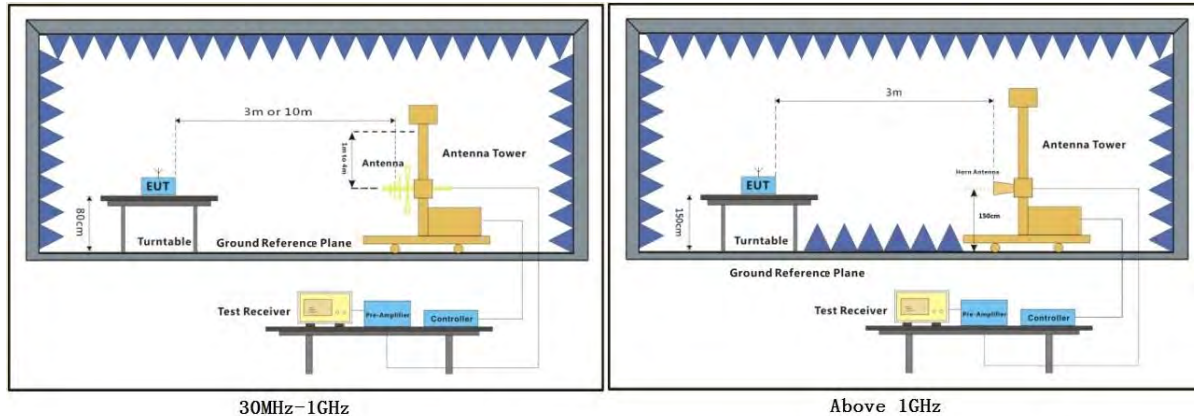
Humidity: 51.6 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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

Remark 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: The EUT has two different types of adapters: the Power Adapter1 (S010-1A050150VUU) and the Power Adapter2 (TPA-141A050150UU01), both of which were pre-tested. Power Adapter1 is identified as the worst case, and only the worst results are reflected in the report.



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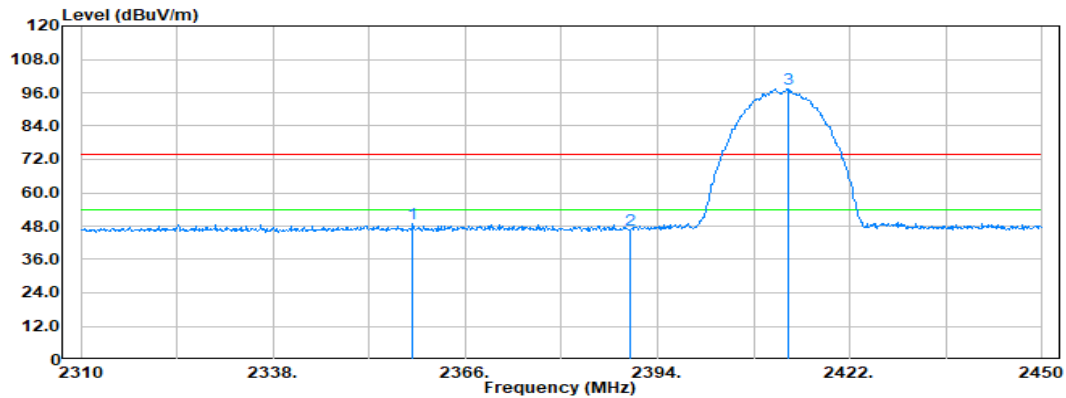
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq MHz	Read level dBUV	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBUV/m	Limit Line dBUV/m	Over Limit dB	Remark
1	2358.30	54.87	26.69	18.46	51.13	48.89	74.00	-25.11	Peak
2	2390.00	52.43	26.80	18.49	51.12	46.60	74.00	-27.40	Peak
3	2413.04	102.98	26.89	18.52	51.12	97.27	74.00	23.27	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

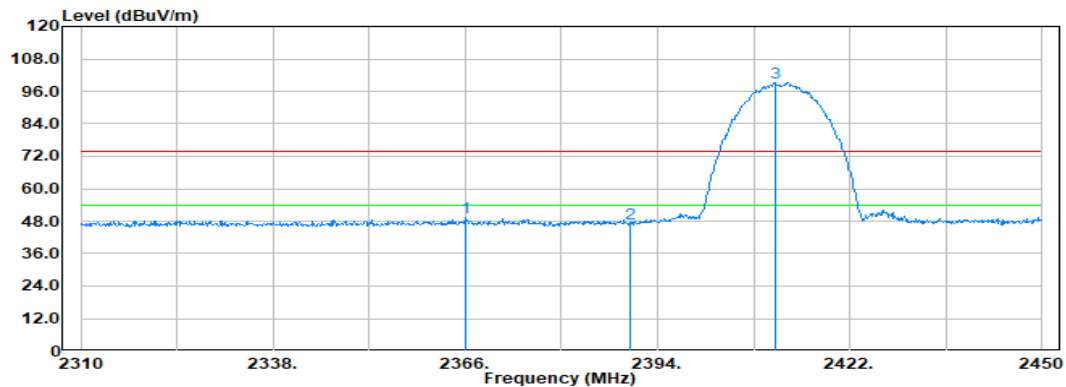
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
1	2366.00	55.46	26.71	18.47	51.13	49.51	74.00	-24.49	Peak
2	2390.00	53.12	26.80	18.49	51.12	47.29	74.00	-26.71	Peak
3	2411.08	104.97	26.88	18.52	51.12	99.25	74.00	25.25	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

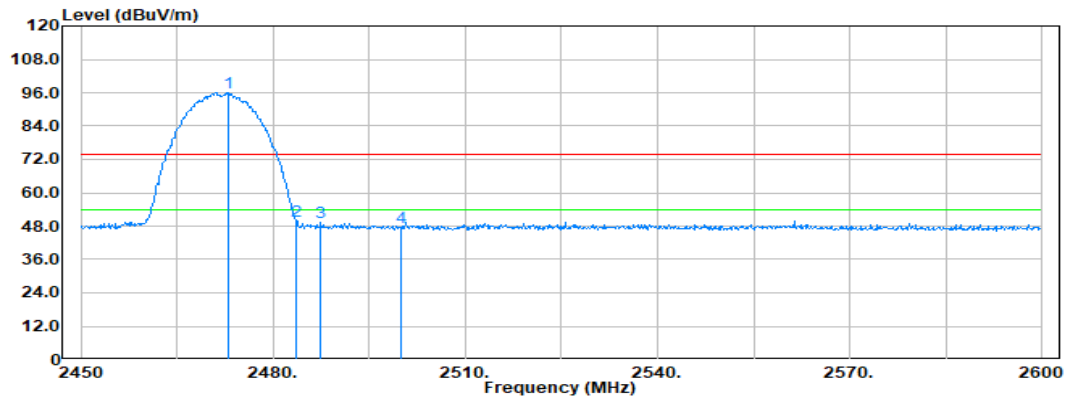
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: High



Antenna Polarity :Horizontal

No.	Freq ----- MHz	Read level ----- dBUv	Antenna Factor ----- dB/m	Cable Loss ----- dB	Preamplifier Factor ----- dB	Emission Level ----- dBUv/m	Limit Line ----- dBUv/m	Over Limit ----- dB	Remark
1	2472.95	101.52	27.11	18.59	51.11	96.11	74.00	22.11	Peak
2	2483.50	55.37	27.15	18.60	51.10	50.02	74.00	-23.98	Peak
3	2487.35	54.52	27.16	18.60	51.10	49.18	74.00	-24.82	Peak
4	2500.00	52.60	27.21	18.62	51.10	47.33	74.00	-26.67	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

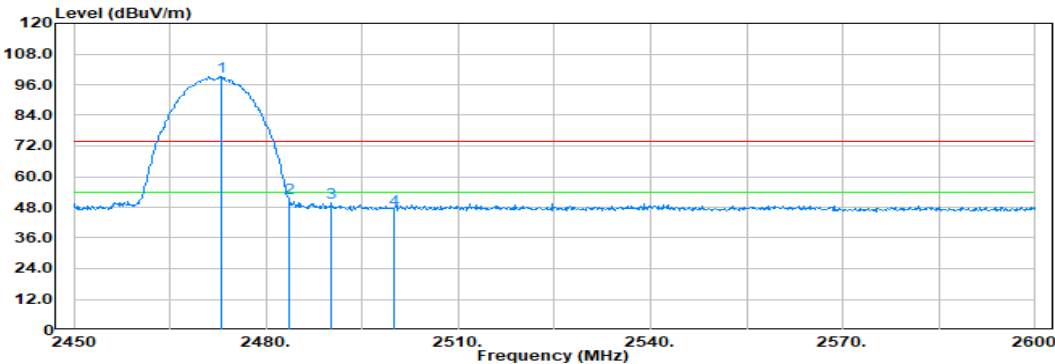
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2472.95	104.72	27.11	18.59	51.11	99.31	74.00	25.31	Peak
2	2483.50	56.84	27.15	18.60	51.10	51.49	74.00	-22.51	Peak
3	2490.20	55.23	27.17	18.60	51.10	49.90	74.00	-24.10	Peak
4	2500.00	52.44	27.21	18.62	51.10	47.17	74.00	-26.83	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

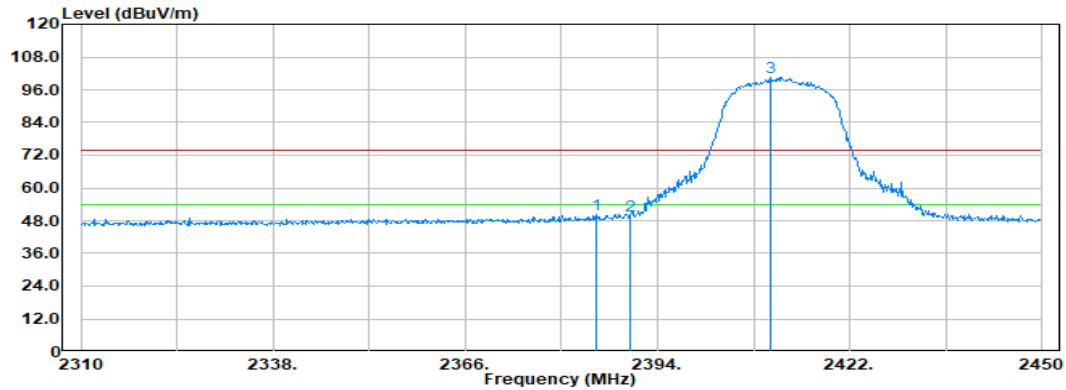
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
1	2385.04	55.91	26.78	18.49	51.12	50.06	74.00	-23.94	Peak
2	2390.00	55.52	26.80	18.49	51.12	49.69	74.00	-24.31	Peak
3	2410.38	106.25	26.88	18.51	51.12	100.52	74.00	26.52	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

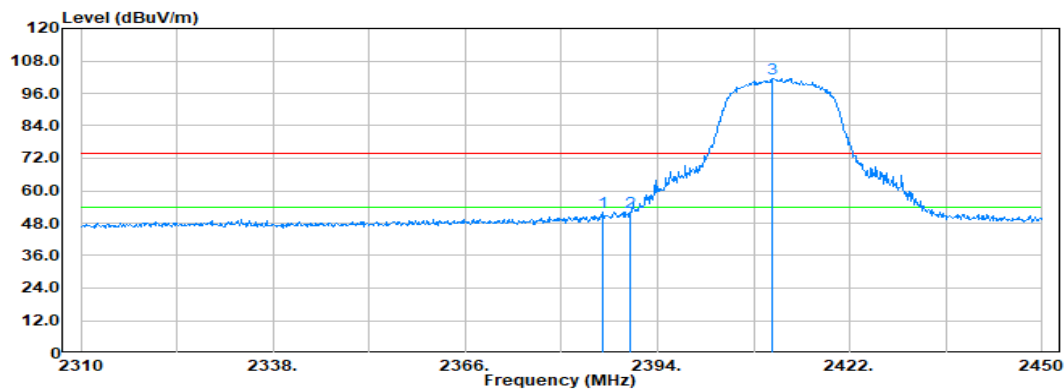
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2386.02	58.13	26.79	18.49	51.12	52.29	74.00	-21.71	Peak
2	2390.00	58.02	26.80	18.49	51.12	52.19	74.00	-21.81	Peak
3	2410.66	107.21	26.88	18.52	51.12	101.49	74.00	27.49	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

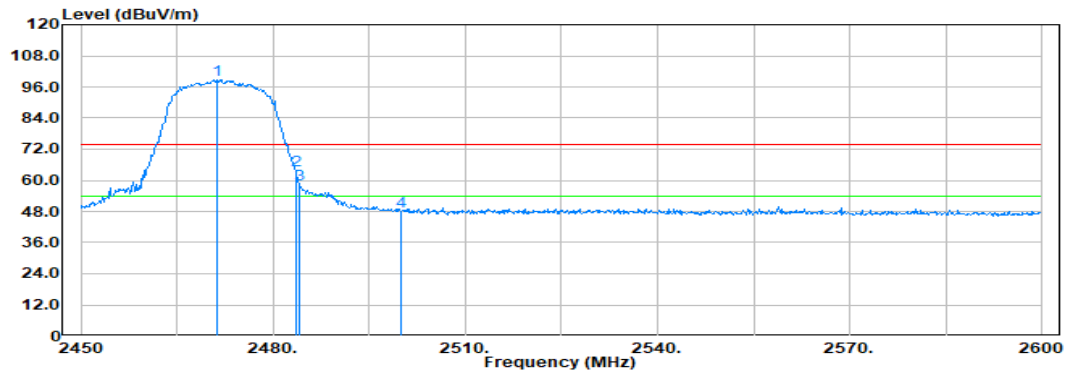
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11g; Bandwidth: 20MHz; Channel: High



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2471.30	104.25	27.10	18.58	51.11	98.82	74.00	24.82	Peak
2	2483.50	69.34	27.15	18.60	51.10	63.99	74.00	-10.01	Peak
3	2484.05	63.93	27.15	18.60	51.10	58.58	74.00	-15.42	Peak
4	2500.00	53.46	27.21	18.62	51.10	48.19	74.00	-25.81	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

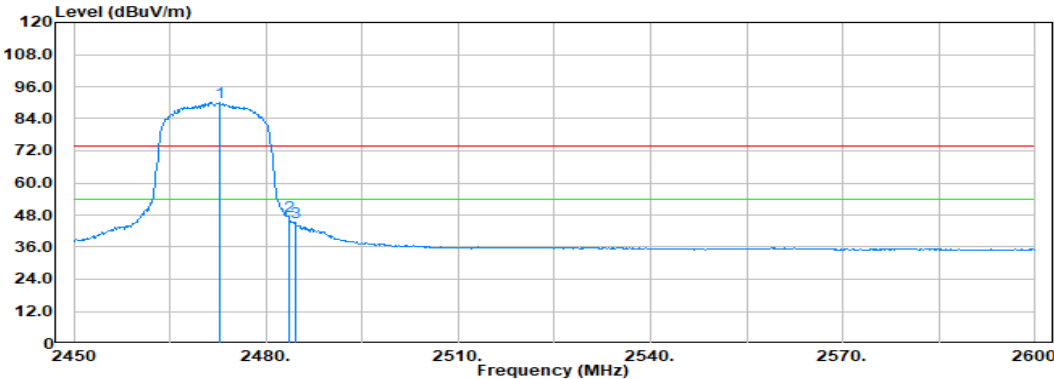
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Antenna Polarity :Horizontal

No.	Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
1	2472.65	95.50	27.11	18.58	51.11	90.08	54.00	36.08	Average
2	2483.50	52.70	27.15	18.60	51.10	47.35	54.00	-6.65	Average
3	2484.50	50.46	27.15	18.60	51.10	45.11	54.00	-8.89	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

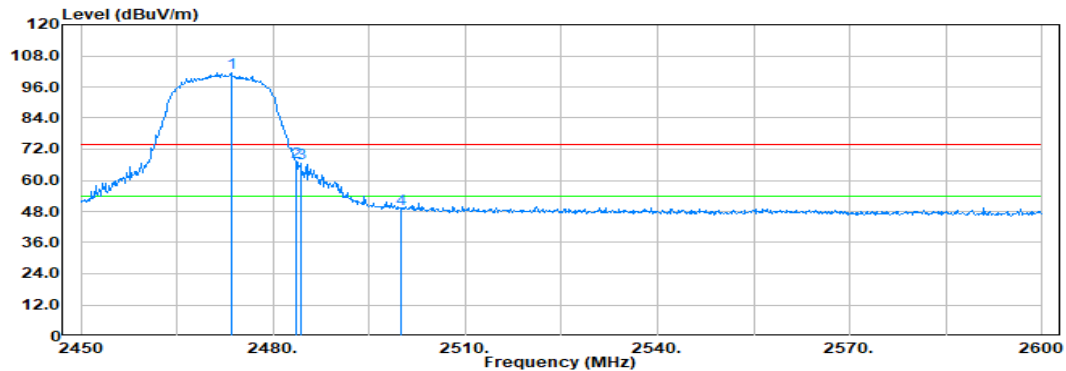
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2473.40	106.75	27.11	18.59	51.11	101.34	74.00	27.34	Peak
2	2483.50	72.53	27.15	18.60	51.10	67.18	74.00	-6.82	Peak
3	2484.20	71.90	27.15	18.60	51.10	66.55	74.00	-7.45	Peak
4	2500.00	53.98	27.21	18.62	51.10	48.71	74.00	-25.29	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

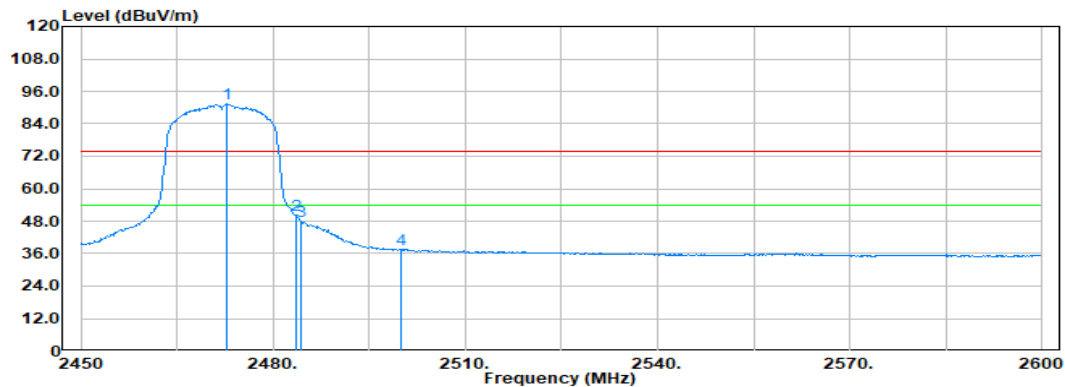
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Antenna Polarity :Vertical

No.	Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
1	2472.80	96.78	27.11	18.58	51.11	91.36	54.00	37.36	Average
2	2483.50	55.50	27.15	18.60	51.10	50.15	54.00	-3.85	Average
3	2484.20	53.49	27.15	18.60	51.10	48.14	54.00	-5.86	Average
4	2500.00	42.68	27.21	18.62	51.10	37.41	54.00	-16.59	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

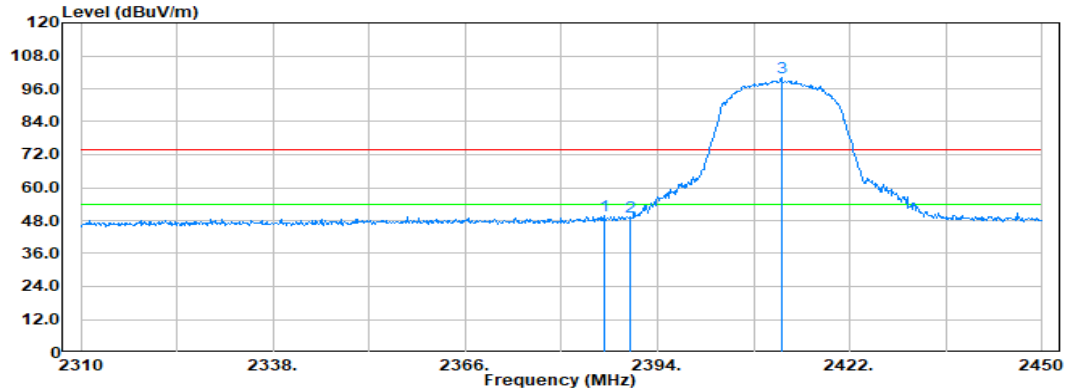
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
1	2386.16	55.47	26.79	18.49	51.12	49.63	74.00	-24.37	Peak
2	2390.00	55.00	26.80	18.49	51.12	49.17	74.00	-24.83	Peak
3	2412.06	105.80	26.88	18.52	51.12	100.08	74.00	26.08	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

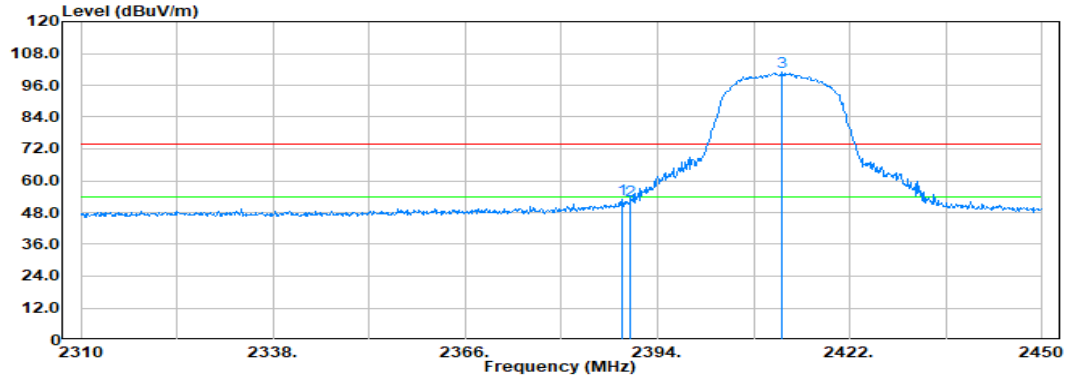
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
1	2388.82	58.73	26.80	18.49	51.12	52.90	74.00	-21.10	Peak
2	2390.00	58.14	26.80	18.49	51.12	52.31	74.00	-21.69	Peak
3	2412.20	106.77	26.88	18.52	51.12	101.05	74.00	27.05	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

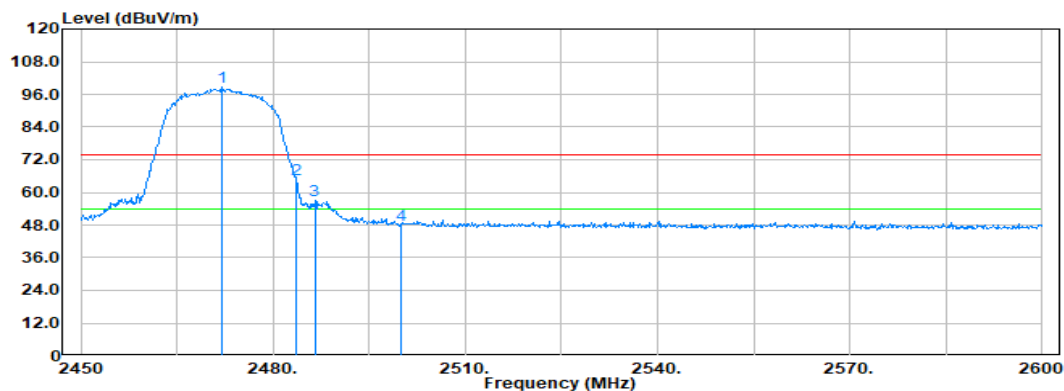
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



Antenna Polarity :Horizontal

No.	Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
1	2472.05	104.07	27.10	18.58	51.11	98.64	74.00	24.64	Peak
2	2483.50	70.24	27.15	18.60	51.10	64.89	74.00	-9.11	Peak
3	2486.45	62.33	27.16	18.60	51.10	56.99	74.00	-17.01	Peak
4	2500.00	53.49	27.21	18.62	51.10	48.22	74.00	-25.78	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

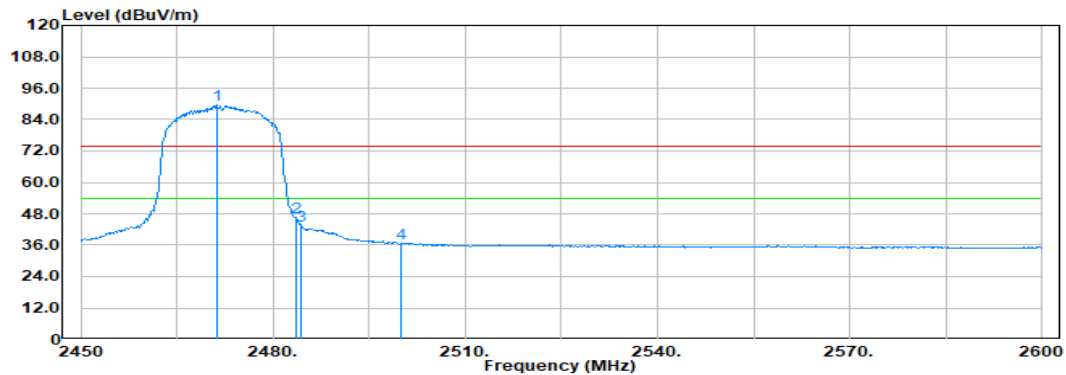
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



Antenna Polarity :Horizontal

No.	Freq ----- MHz	Read level ----- dBuv	Antenna Factor ----- dB/m	Cable Loss ----- dB	Preamp Factor ----- dB	Emission Level ----- dBuv/m	Limit Line ----- dBuv/m	Over Limit ----- dB	Remark -----
1	2471.15	94.90	27.10	18.58	51.11	89.47	54.00	35.47	Average
2	2483.50	51.99	27.15	18.60	51.10	46.64	54.00	-7.36	Average
3	2484.35	48.89	27.15	18.60	51.10	43.54	54.00	-10.46	Average
4	2500.00	42.07	27.21	18.62	51.10	36.80	54.00	-17.20	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

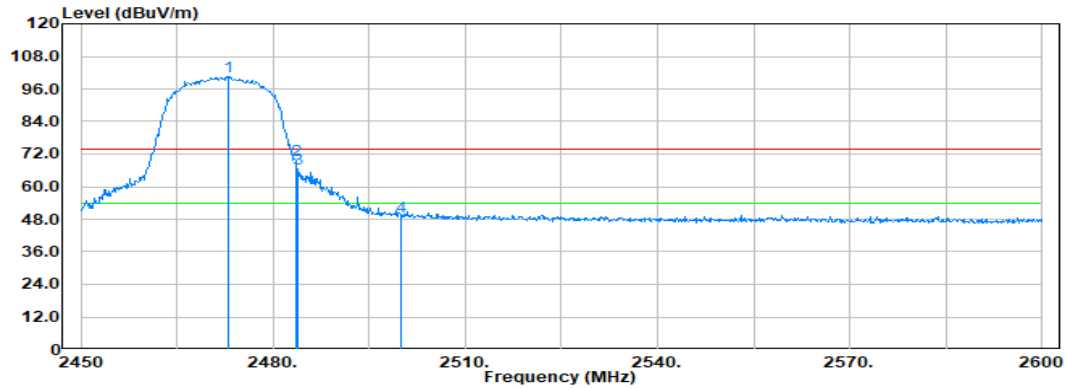
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2472.95	105.95	27.11	18.59	51.11	100.54	74.00	26.54	Peak
2	2483.50	75.19	27.15	18.60	51.10	69.84	74.00	-4.16	Peak
3	2483.90	72.09	27.15	18.60	51.10	66.74	74.00	-7.26	Peak
4	2500.00	54.35	27.21	18.62	51.10	49.08	74.00	-24.92	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

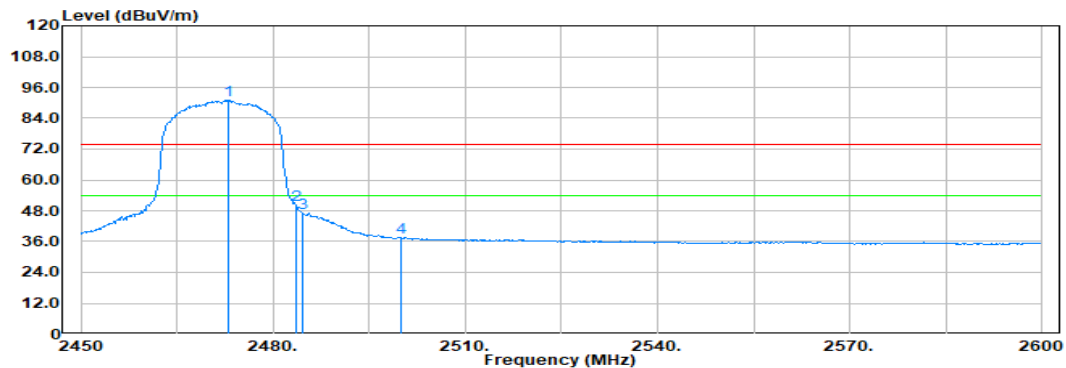
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :Vertical

No.	Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
1	2472.95	96.38	27.11	18.59	51.11	90.97	54.00	36.97	Average
2	2483.50	55.46	27.15	18.60	51.10	50.11	54.00	-3.89	Average
3	2484.65	52.40	27.15	18.60	51.10	47.05	54.00	-6.95	Average
4	2500.00	42.66	27.21	18.62	51.10	37.39	54.00	-16.61	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

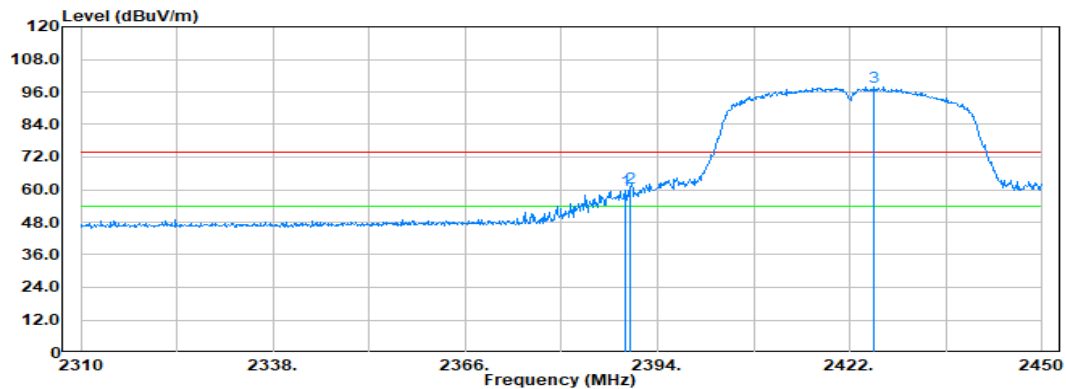
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.24	65.70	26.80	18.49	51.12	59.87	74.00	-14.13	Peak
2	2390.00	66.30	26.80	18.49	51.12	60.47	74.00	-13.53	Peak
3	2425.50	103.56	26.93	18.53	51.11	97.91	74.00	23.91	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

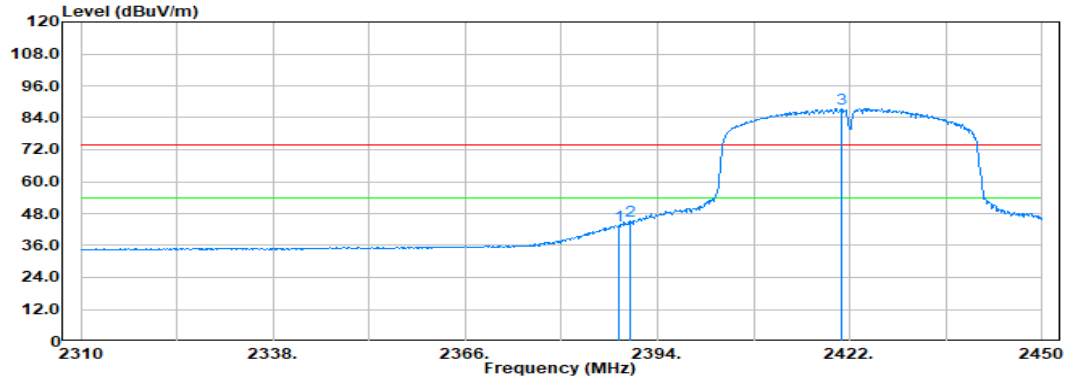
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2388.40	49.42	26.80	18.49	51.12	43.59	54.00	-10.41	Average
2	2390.00	50.99	26.80	18.49	51.12	45.16	54.00	-8.84	Average
3	2420.88	93.14	26.92	18.53	51.12	87.47	54.00	33.47	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

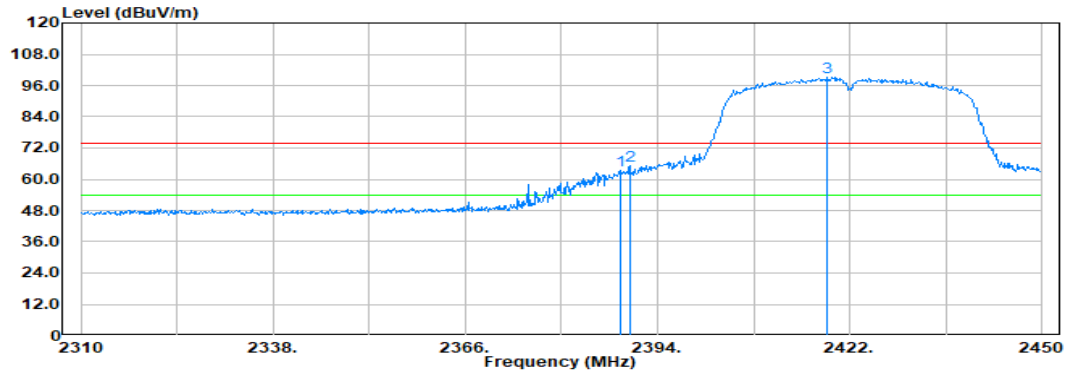
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2388.54	69.12	26.80	18.49	51.12	63.29	74.00	-10.71	Peak
2	2390.00	71.22	26.80	18.49	51.12	65.39	74.00	-8.61	Peak
3	2418.78	104.95	26.91	18.52	51.12	99.26	74.00	25.26	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

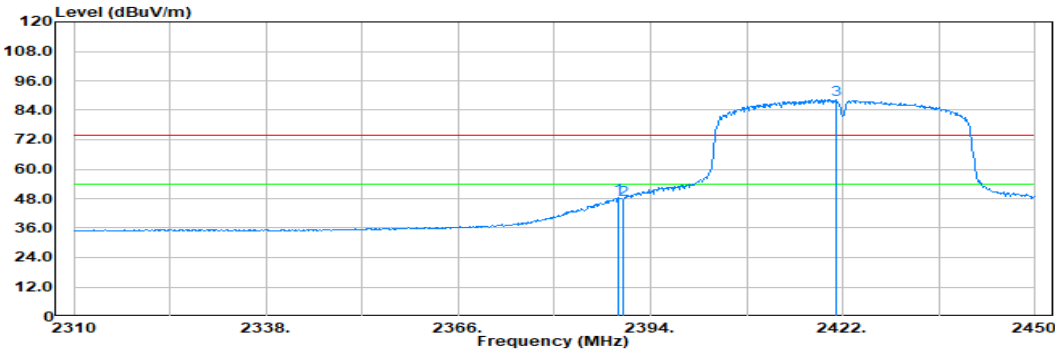
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
1	2389.24	54.09	26.80	18.49	51.12	48.26	54.00	-5.74	Average
2	2390.00	53.58	26.80	18.49	51.12	47.75	54.00	-6.25	Average
3	2421.02	94.01	26.92	18.53	51.12	88.34	54.00	34.34	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

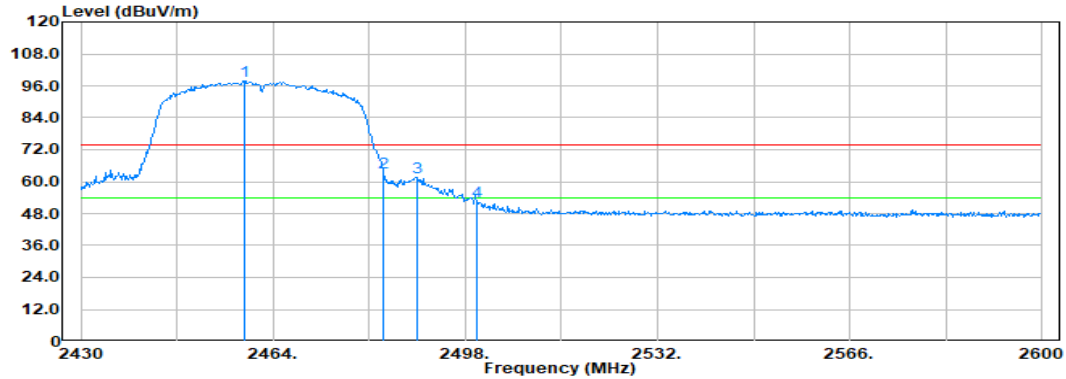
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2458.90	103.24	27.06	18.57	51.11	97.76	74.00	23.76	Peak
2	2483.50	68.55	27.15	18.60	51.10	63.20	74.00	-10.80	Peak
3	2489.33	66.77	27.17	18.60	51.10	61.44	74.00	-12.56	Peak
4	2500.00	57.61	27.21	18.62	51.10	52.34	74.00	-21.66	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

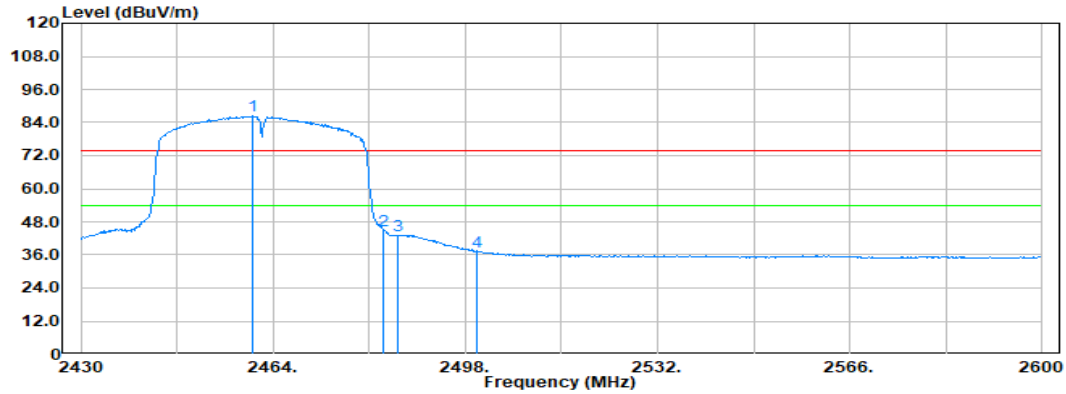
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :Horizontal

No.	Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
1	2460.43	91.74	27.06	18.57	51.11	86.26	54.00	32.26	Average
2	2483.50	50.26	27.15	18.60	51.10	44.91	54.00	-9.09	Average
3	2486.10	48.48	27.15	18.60	51.10	43.13	54.00	-10.87	Average
4	2500.00	42.54	27.21	18.62	51.10	37.27	54.00	-16.73	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

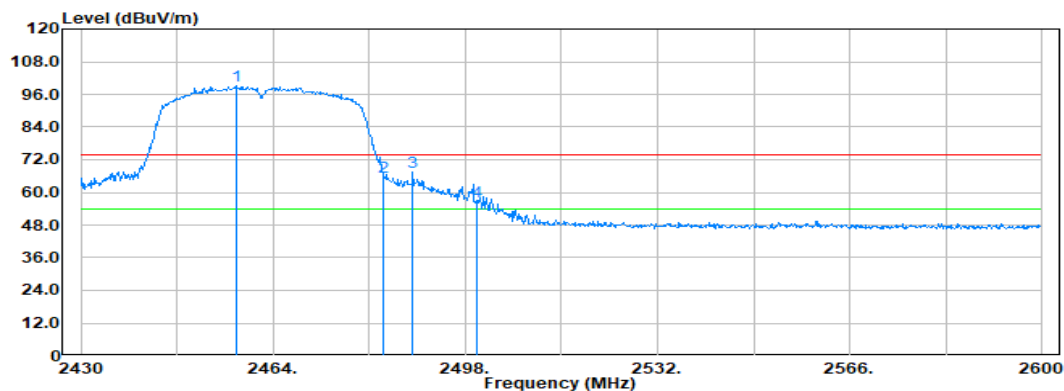
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :Vertical

No.	Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
1	2457.54	104.72	27.05	18.57	51.11	99.23	74.00	25.23	Peak
2	2483.50	70.96	27.15	18.60	51.10	65.61	74.00	-8.39	Peak
3	2488.65	72.60	27.16	18.60	51.10	67.26	74.00	-6.74	Peak
4	2500.00	61.95	27.21	18.62	51.10	56.68	74.00	-17.32	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

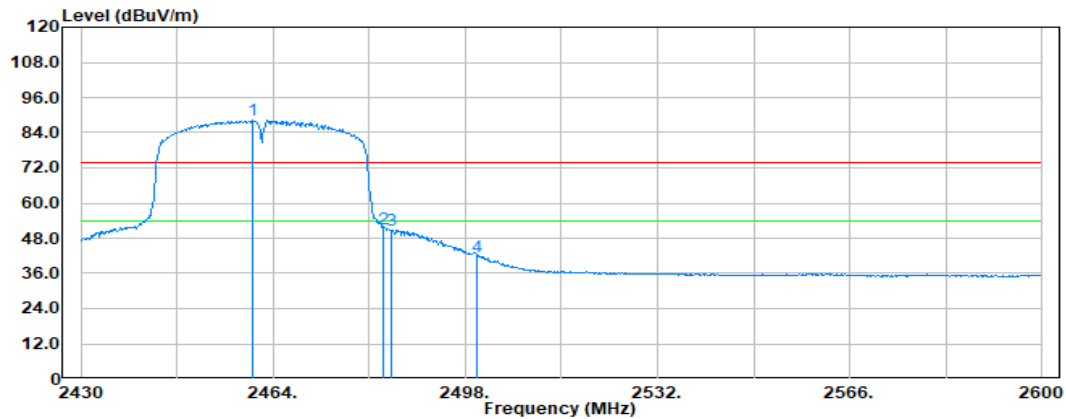
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :Vertical

No.	Freq ----- MHz	Read level ----- dBuv	Antenna Factor ----- dB/m	Cable Loss ----- dB	Preamp Factor ----- dB	Emission Level ----- dBuv/m	Limit Line ----- dBuv/m	Over Limit ----- dB	Remark -----
1	2460.26	93.68	27.06	18.57	51.11	88.20	54.00	34.20	Average
2	2483.50	56.70	27.15	18.60	51.10	51.35	54.00	-2.65	Average
3	2484.74	56.27	27.15	18.60	51.10	50.92	54.00	-3.08	Average
4	2500.00	46.82	27.21	18.62	51.10	41.55	54.00	-12.45	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

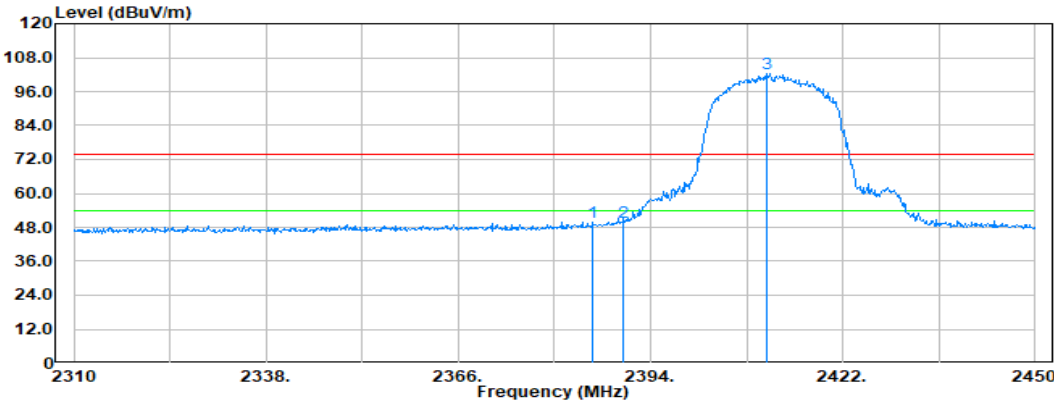
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2385.60	55.70	26.79	18.49	51.12	49.86	74.00	-24.14	Peak
2	2390.00	55.71	26.80	18.49	51.12	49.88	74.00	-24.12	Peak
3	2410.94	108.28	26.88	18.52	51.12	102.56	74.00	28.56	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

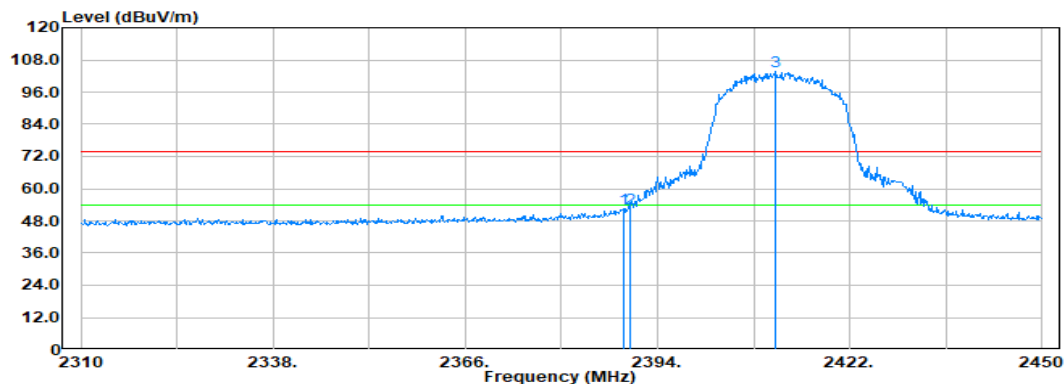
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.10	58.35	26.80	18.49	51.12	52.52	74.00	-21.48	Peak
2	2390.00	58.55	26.80	18.49	51.12	52.72	74.00	-21.28	Peak
3	2411.08	109.39	26.88	18.52	51.12	103.67	74.00	29.67	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

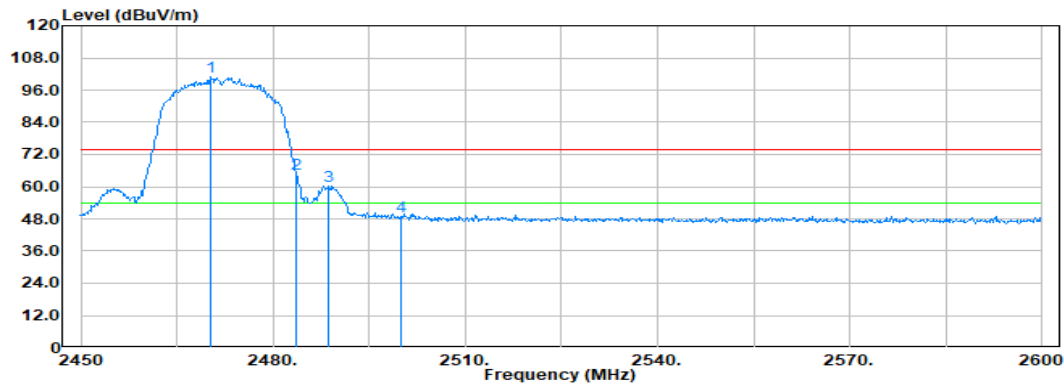
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2470.12	106.23	27.10	18.58	51.11	100.80	74.00	26.80	Peak
2	2483.50	70.28	27.15	18.60	51.10	64.93	74.00	-9.07	Peak
3	2488.65	65.77	27.16	18.60	51.10	60.43	74.00	-13.57	Peak
4	2500.00	54.34	27.21	18.62	51.10	49.07	74.00	-24.93	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



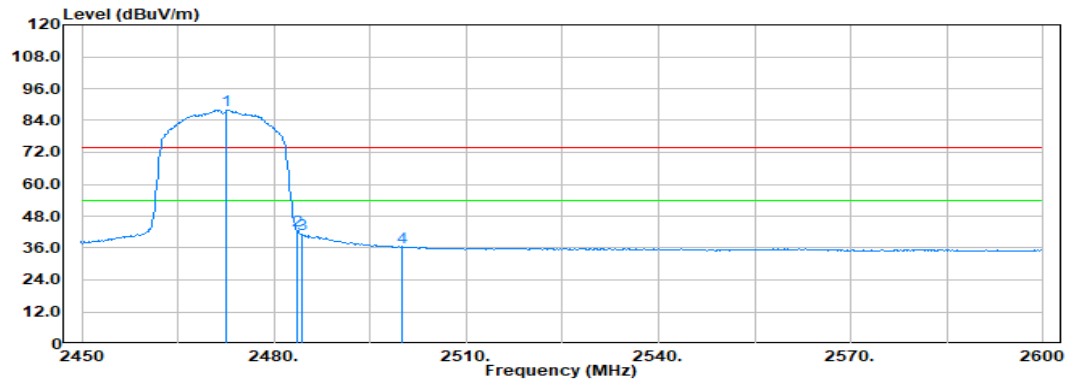
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2472.50	93.40	27.10	18.58	51.11	87.97	54.00	33.97	Average
2	2483.50	48.06	27.15	18.60	51.10	42.71	54.00	-11.29	Average
3	2484.23	46.47	27.15	18.60	51.10	41.12	54.00	-12.88	Average
4	2500.00	41.45	27.21	18.62	51.10	36.18	54.00	-17.82	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



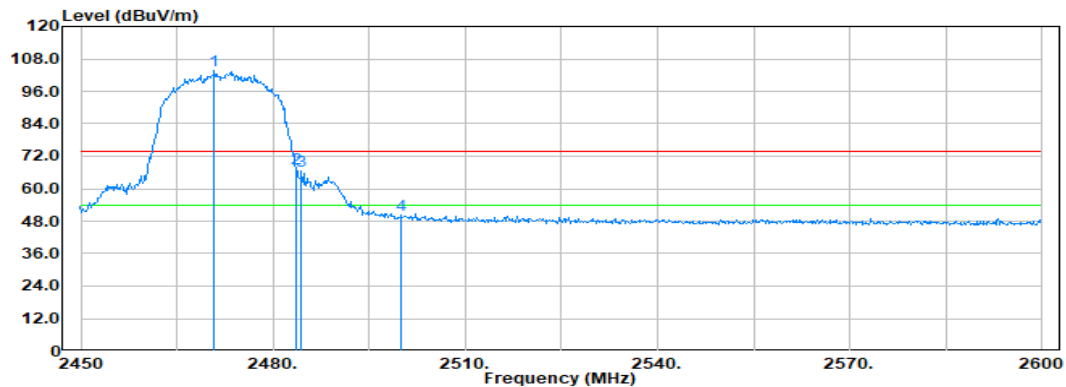
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2470.80	109.23	27.10	18.58	51.11	103.80	74.00	29.80	Peak
2	2483.50	72.71	27.15	18.60	51.10	67.36	74.00	-6.64	Peak
3	2484.40	71.98	27.15	18.60	51.10	66.63	74.00	-7.37	Peak
4	2500.00	55.37	27.21	18.62	51.10	50.10	74.00	-23.90	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



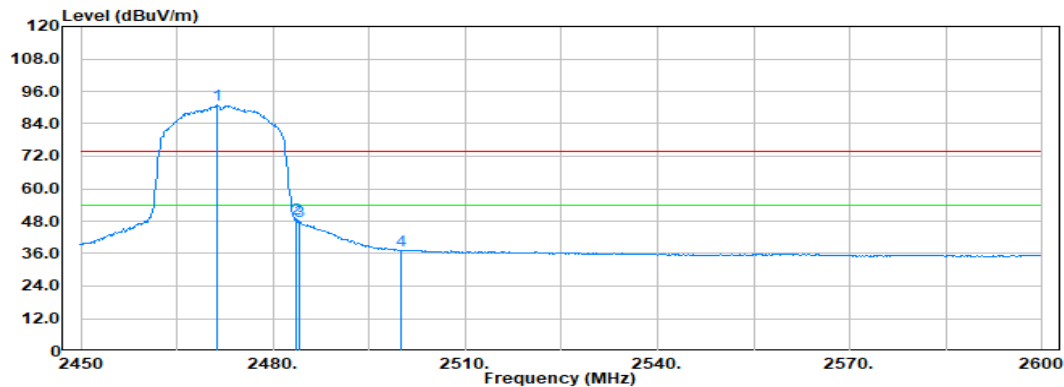
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2471.14	96.26	27.10	18.58	51.11	90.83	54.00	36.83	Average
2	2483.50	54.04	27.15	18.60	51.10	48.69	54.00	-5.31	Average
3	2484.06	53.41	27.15	18.60	51.10	48.06	54.00	-5.94	Average
4	2500.00	42.55	27.21	18.62	51.10	37.28	54.00	-16.72	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

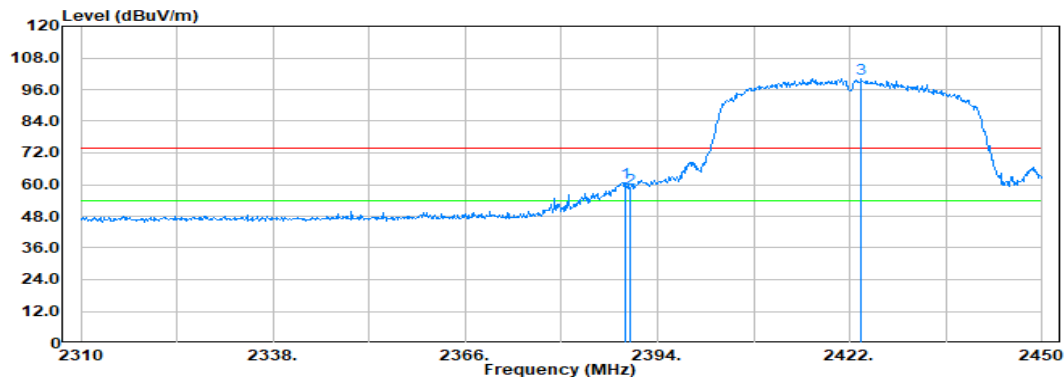
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: Low



Antenna Polarity :Horizontal

No.	Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
1	2389.24	66.59	26.80	18.49	51.12	60.76	74.00	-13.24	Peak
2	2390.00	64.37	26.80	18.49	51.12	58.54	74.00	-15.46	Peak
3	2423.68	105.88	26.93	18.53	51.12	100.22	74.00	26.22	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

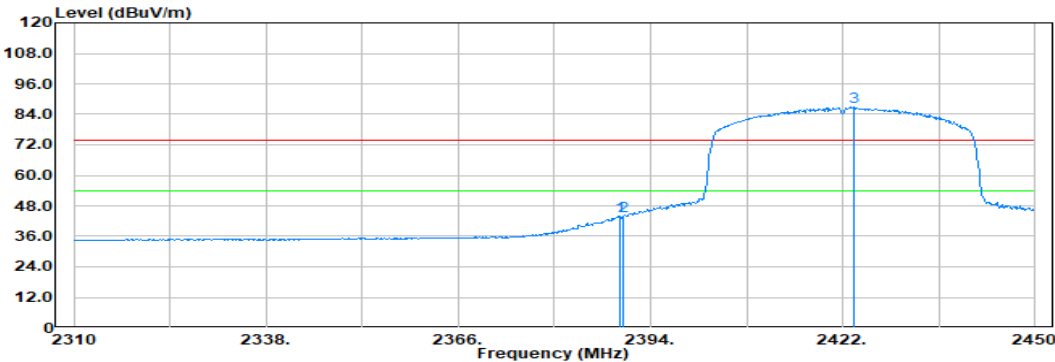
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.52	49.64	26.80	18.49	51.12	43.81	54.00	-10.19	Average
2	2390.00	49.86	26.80	18.49	51.12	44.03	54.00	-9.97	Average
3	2423.54	92.40	26.93	18.53	51.12	86.74	54.00	32.74	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



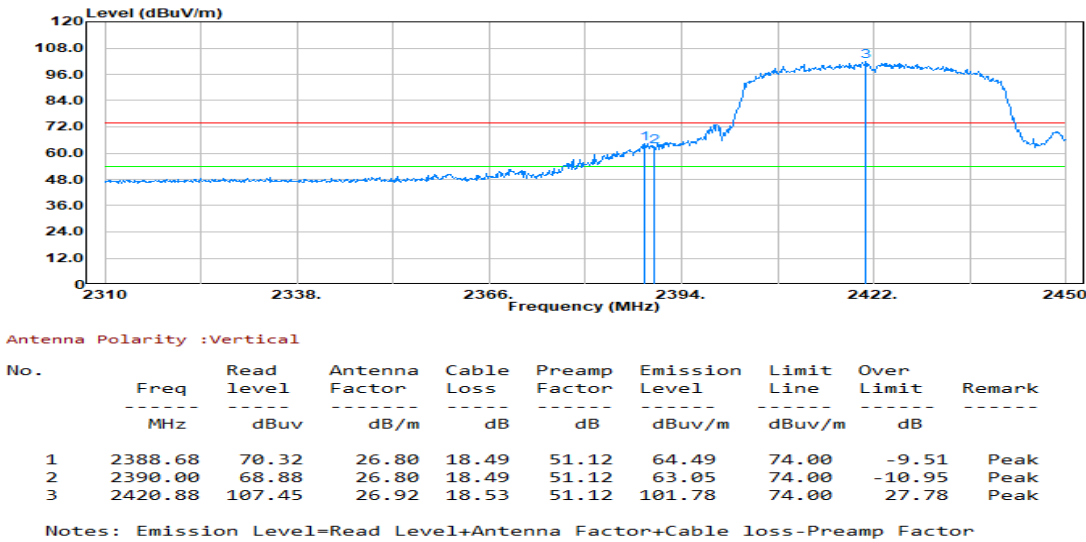
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



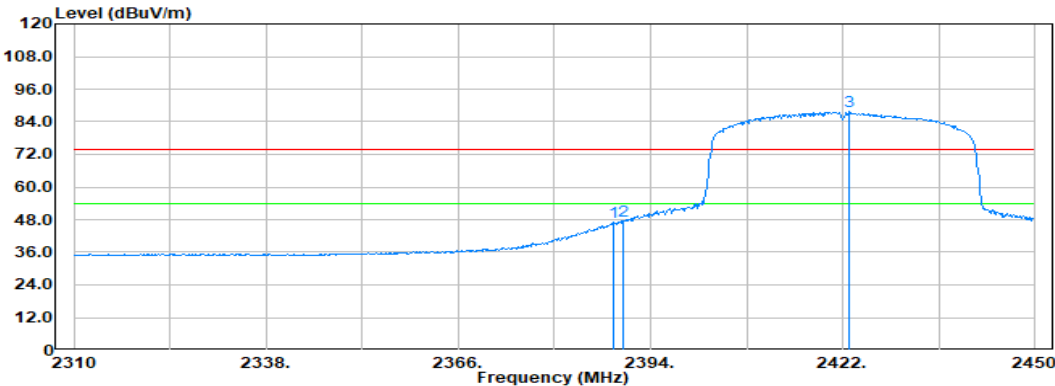
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2388.54	52.92	26.80	18.49	51.12	47.09	54.00	-6.91	Average
2	2390.00	53.43	26.80	18.49	51.12	47.60	54.00	-6.40	Average
3	2422.98	93.37	26.92	18.53	51.12	87.70	54.00	33.70	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

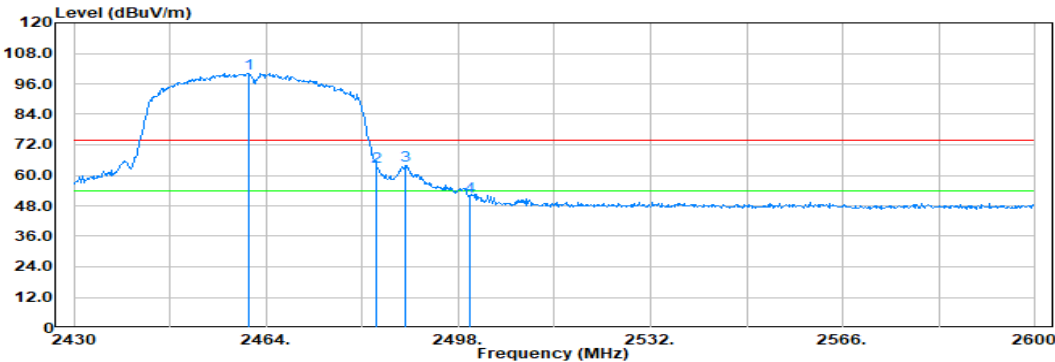
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2460.77	105.73	27.06	18.57	51.11	100.25	74.00	26.25	Peak
2	2483.50	68.68	27.15	18.60	51.10	63.33	74.00	-10.67	Peak
3	2488.65	69.24	27.16	18.60	51.10	63.90	74.00	-10.10	Peak
4	2500.00	56.75	27.21	18.62	51.10	51.48	74.00	-22.52	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

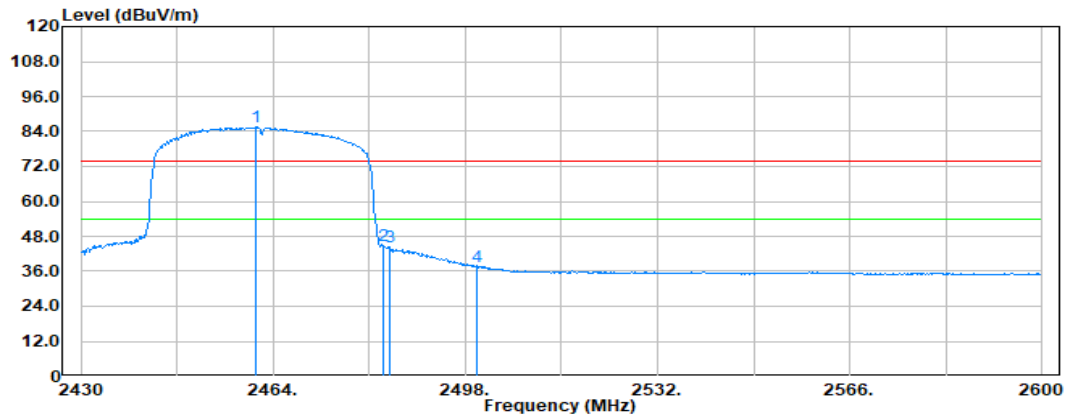
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: High



Antenna Polarity :Horizontal

No.	Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
1	2460.94	90.95	27.06	18.57	51.11	85.47	54.00	31.47	Average
2	2483.50	50.11	27.15	18.60	51.10	44.76	54.00	-9.24	Average
3	2484.57	49.53	27.15	18.60	51.10	44.18	54.00	-9.82	Average
4	2500.00	42.84	27.21	18.62	51.10	37.57	54.00	-16.43	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

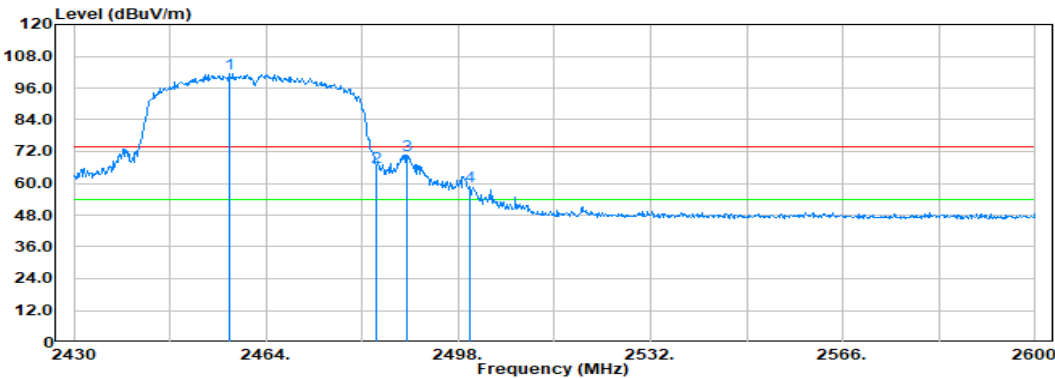
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2457.37	107.08	27.05	18.57	51.11	101.59	74.00	27.59	Peak
2	2483.50	71.57	27.15	18.60	51.10	66.22	74.00	-7.78	Peak
3	2488.82	76.16	27.16	18.60	51.10	70.82	74.00	-3.18	Peak
4	2500.00	64.15	27.21	18.62	51.10	58.88	74.00	-15.12	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

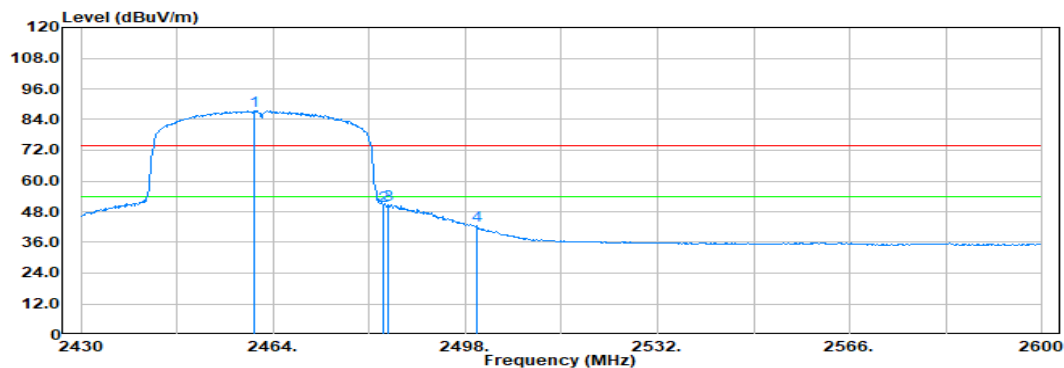
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2460.60	92.89	27.06	18.57	51.11	87.41	54.00	33.41	Average
2	2483.50	55.82	27.15	18.60	51.10	50.47	54.00	-3.53	Average
3	2484.40	56.28	27.15	18.60	51.10	50.93	54.00	-3.07	Average
4	2500.00	47.77	27.21	18.62	51.10	42.50	54.00	-11.50	Average

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

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7.3 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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C

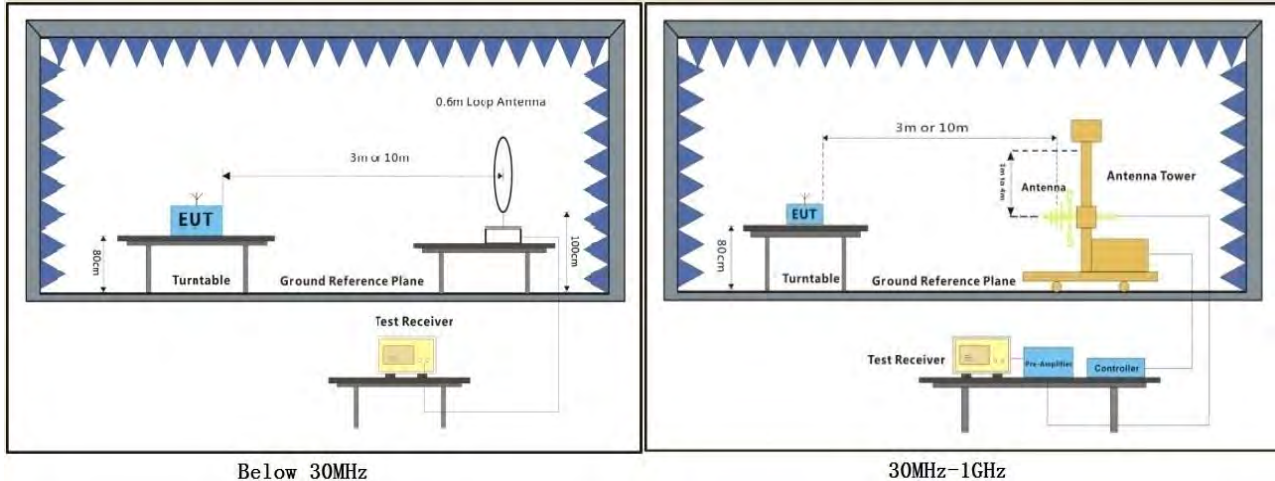
Humidity: 51.6 % RH

Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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

Remark:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- The EUT has two different types of adapters: the Power Adapter1 (S010-1A050150VUU) and the Power Adapter2 (TPA-141A050150UU01), both of which were pre-tested. Power Adapter1 is identified as the worst case, and only the worst results are reflected in the report.

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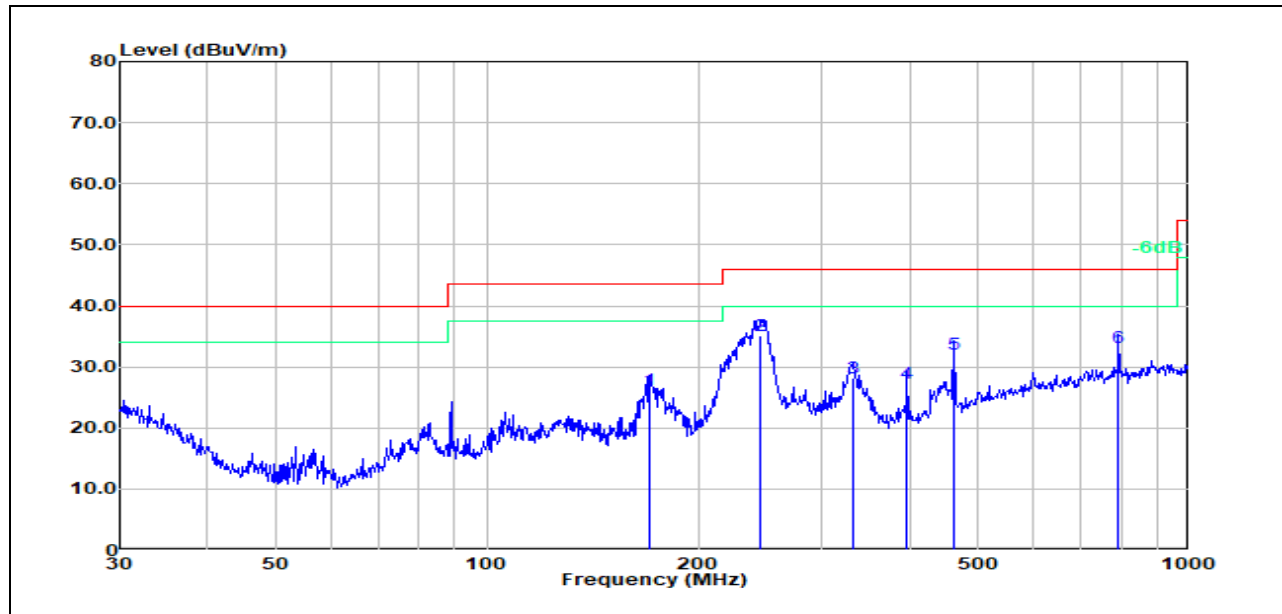
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Test Mode: 00; Polarity: Horizontal

Test Data :



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	170.7930	14.99	11.14	26.13	43.50	-17.37	100	98	QP
2	245.0900	21.54	13.68	35.22	46.00	-10.78	100	346	QP
3	331.3550	11.66	16.48	28.14	46.00	-17.86	100	384	QP
4	396.2420	9.55	17.76	27.31	46.00	-18.69	100	361	QP
5	462.3460	12.17	19.97	32.14	46.00	-13.86	100	271	QP
6	793.3960	8.71	24.49	33.20	46.00	-12.80	100	361	QP

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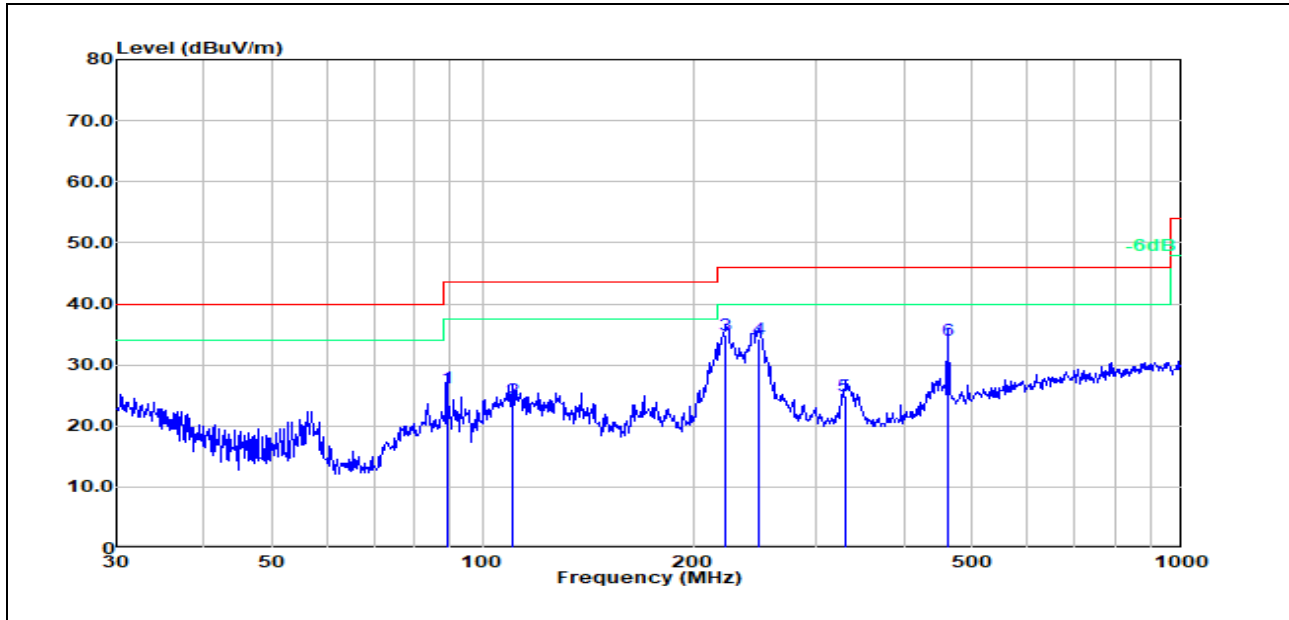
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Test Mode: 00; Polarity: Vertical

Test Data :



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	88.9640	14.72	11.59	26.31	43.50	-17.19	100	43	QP
2	110.1820	10.48	13.83	24.31	43.50	-19.19	100	329	QP
3	222.9500	22.09	12.79	34.88	46.00	-11.12	100	208	QP
4	248.5520	20.06	14.25	34.31	46.00	-11.69	100	140	QP
5	329.0390	8.44	16.57	25.01	46.00	-20.99	100	223	QP
6	462.3460	13.98	19.97	33.95	46.00	-12.05	100	231	QP

7.4 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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C

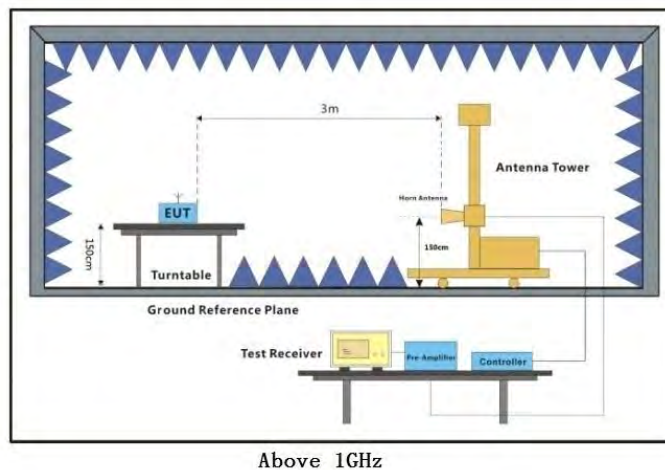
Humidity: 51.6 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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

Remark:

1. $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamplifier Factor}$
2. Scan from 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. The EUT has two different types of adapters: the Power Adapter1 (S010-1A050150VUU) and the Power Adapter2 (TPA-141A050150UU01), both of which were pre-tested. Power Adapter1 is identified as the worst case, and only the worst results are reflected in the report.

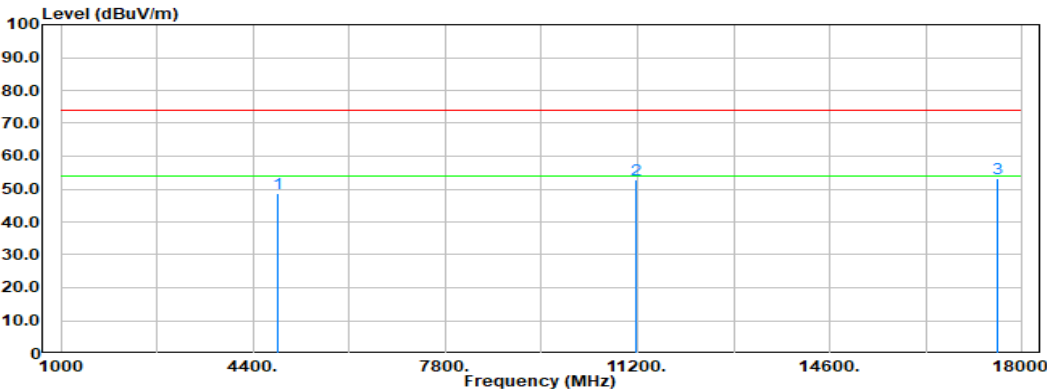
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	4825.00	59.67	31.08	8.84	50.95	48.64	74.00	-25.36	Peak
2	11183.00	51.16	39.75	13.34	51.57	52.68	74.00	-21.32	Peak
3	17575.00	44.86	42.21	15.10	49.15	53.02	74.00	-20.98	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

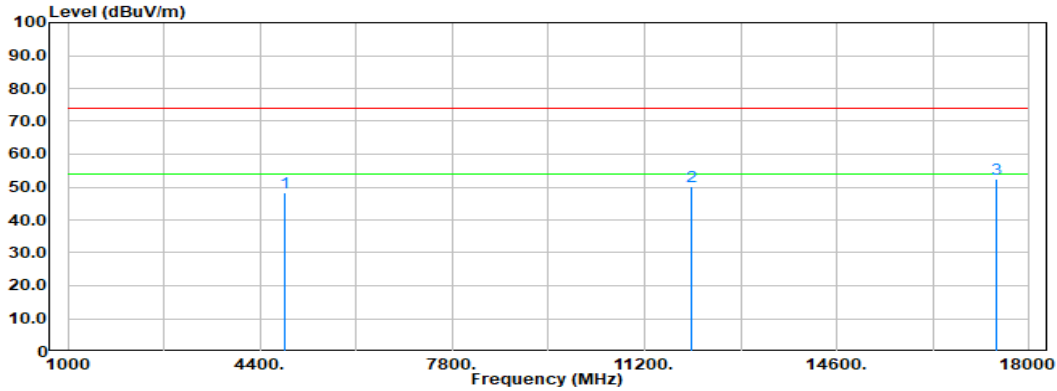
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	4825.00	59.31	31.08	8.84	50.95	48.28	74.00	-25.72	Peak
2	12033.00	49.55	38.74	13.66	51.90	50.05	74.00	-23.95	Peak
3	17422.00	45.21	41.29	15.09	49.25	52.34	74.00	-21.66	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



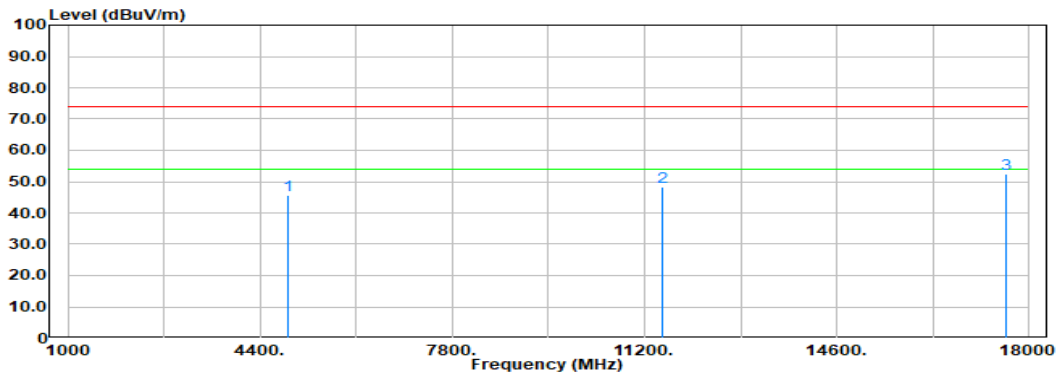
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	-----	-----	-----	-----	-----	-----	-----	-----	-----
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	4876.00	56.70	31.19	8.89	50.96	45.82	74.00	-28.18	Peak
2	11523.00	47.13	39.55	13.47	51.71	48.44	74.00	-25.56	Peak
3	17592.00	44.05	42.36	15.10	49.14	52.37	74.00	-21.63	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

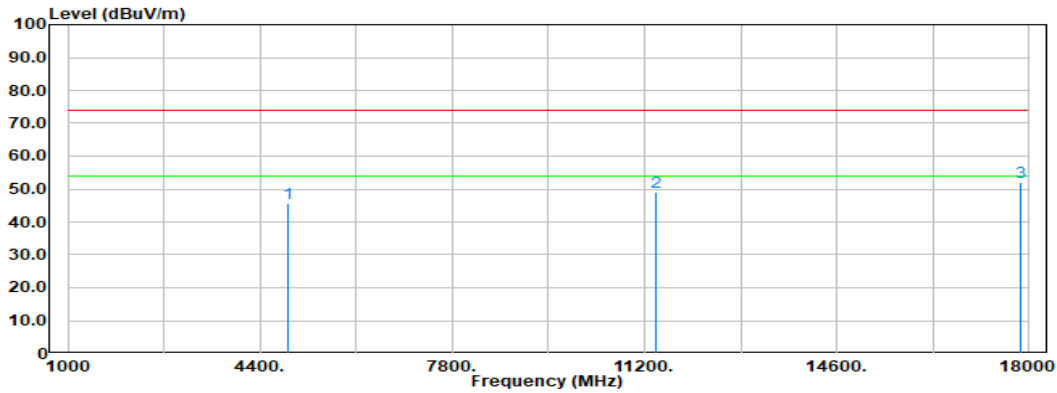
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Antenna Polarity :Vertical

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	4876.00	56.50	31.19	8.89	50.96	45.62	74.00	-28.38	Peak
2	11404.00	47.51	39.64	13.42	51.66	48.91	74.00	-25.09	Peak
3	17864.00	41.19	44.77	15.11	48.98	52.09	74.00	-21.91	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

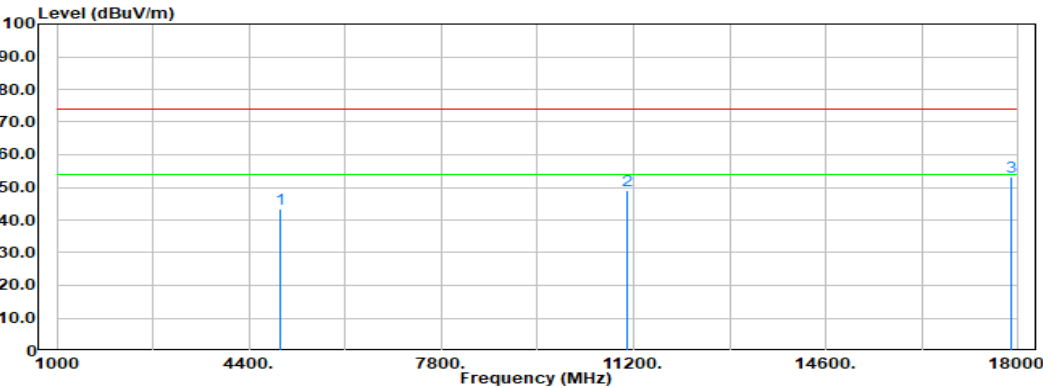
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity :Horizontal

No.	Freq	Read level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	4944.00	54.02	31.35	8.95	50.98	43.34	74.00	-30.66	Peak
2	11081.00	47.41	39.80	13.29	51.53	48.97	74.00	-25.03	Peak
3	17881.00	41.96	44.92	15.11	48.97	53.02	74.00	-20.98	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

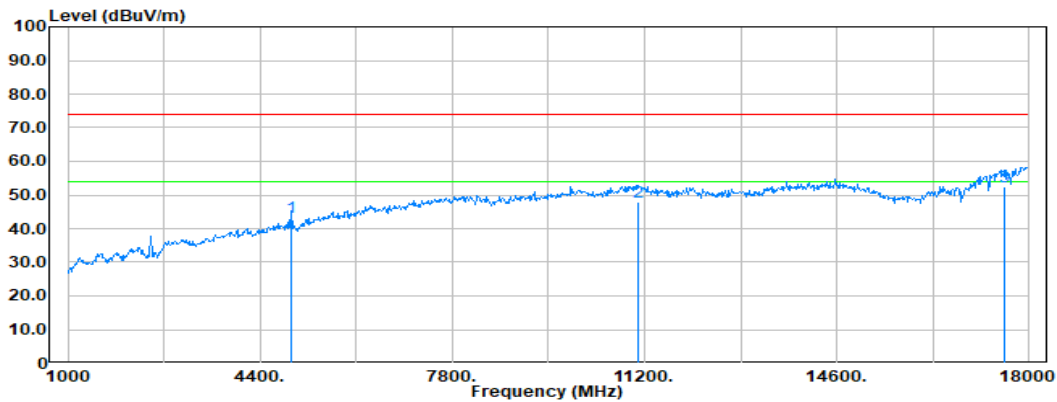
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11b; Bandwidth: 20MHz; Channel: High



Antenna Polarity :Vertical

No.	Freq MHz	Read level dBuv	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuv/m	Limit Line dBuv/m	Over Limit dB	Remark
1	4944.00	53.93	31.35	8.95	50.98	43.25	74.00	-30.75	Peak
2	11098.00	46.20	39.79	13.30	51.54	47.75	74.00	-26.25	Peak
3	17575.00	44.35	42.21	15.10	49.16	52.50	74.00	-21.50	Peak

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



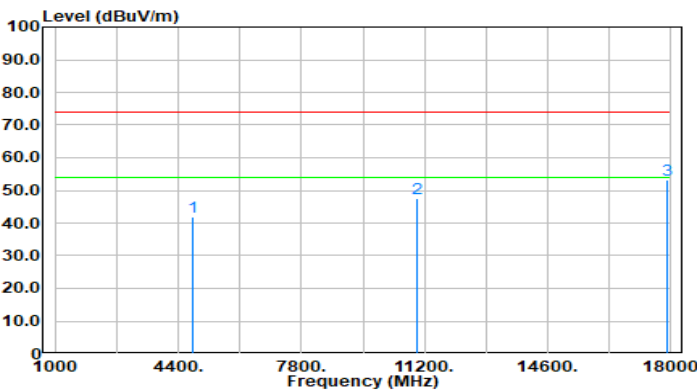
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m Horizontal
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4808.000	8.83	31.04	50.94	53.08	42.01	74.00	-31.99	100	360	Peak
2	10979.000	13.24	39.82	51.50	45.91	47.47	74.00	-26.53	100	360	Peak
3	17881.000	15.11	44.92	48.97	42.15	53.21	74.00	-20.79	100	360	Peak



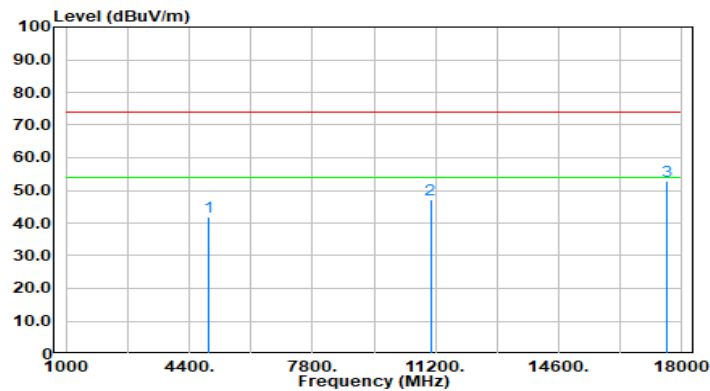
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m Vertical
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4944.000	8.95	31.35	50.98	52.53	41.85	74.00	-32.15	0	0	Peak
2	11059.750	13.29	39.81	51.52	45.66	47.24	74.00	-26.76	0	0	Peak
3	17579.250	15.10	42.25	49.15	44.61	52.81	74.00	-21.19	0	0	Peak



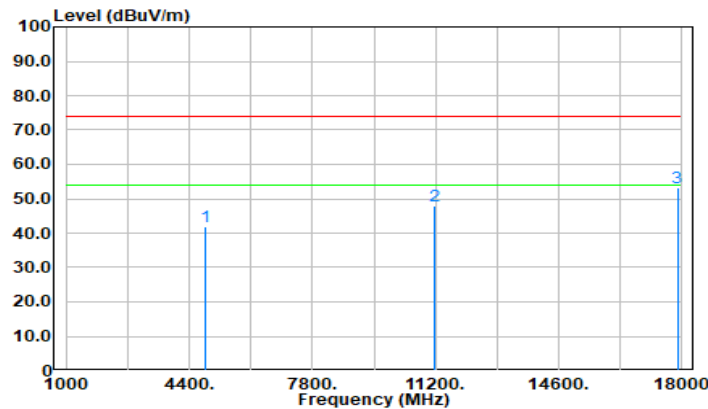
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m Horizontal
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4863.250	8.88	31.17	50.96	52.86	41.95	74.00	-32.05	0	0	Peak
2	11174.500	13.33	39.75	51.57	46.23	47.74	74.00	-26.26	0	0	Peak
3	17872.500	15.11	44.84	48.98	42.39	53.36	74.00	-20.64	0	0	Peak



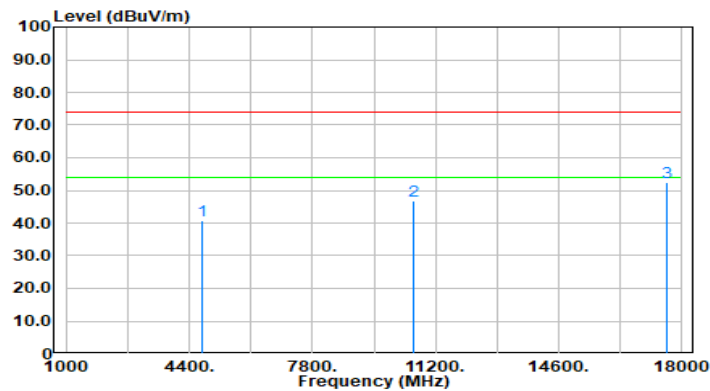
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m Vertical
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4761.250	8.78	30.94	50.93	52.15	40.94	74.00	-33.06	0	0	Peak
2	10583.750	12.90	39.42	51.46	45.85	46.71	74.00	-27.29	0	0	Peak
3	17575.000	15.10	42.21	49.16	44.43	52.58	74.00	-21.42	0	0	Peak



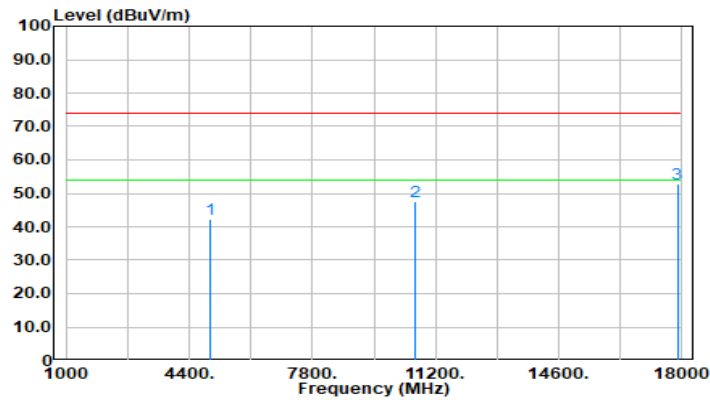
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m Horizontal
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4986.500	8.99	31.44	51.00	52.95	42.38	74.00	-31.62	0	0	Peak
2	10626.250	12.93	39.46	51.46	46.76	47.69	74.00	-26.31	0	0	Peak
3	17872.500	15.11	44.84	48.98	41.95	52.92	74.00	-21.08	0	0	Peak

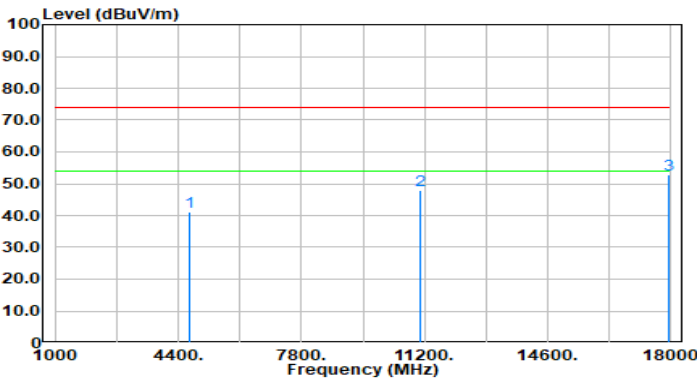
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m Vertical
Job No :
Mode :

No.	Freq MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBuV	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark		
1	4710.250	8.73	30.82	50.91	52.57	41.21	74.00	-32.79	0	0	Peak
2	11064.000	13.29	39.81	51.53	46.32	47.89	74.00	-26.11	0	0	Peak
3	17957.500	15.12	45.60	48.93	41.18	52.97	74.00	-21.03	0	0	Peak



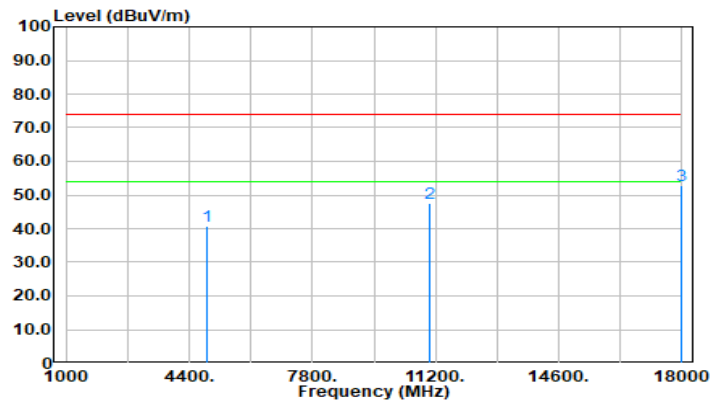
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m Horizontal
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4901.500	8.91	31.25	50.97	51.51	40.70	74.00	-33.30	0	0	Peak
2	11025.750	13.27	39.83	51.51	45.89	47.48	74.00	-26.52	0	0	Peak
3	17995.750	15.12	45.94	48.90	40.60	52.76	74.00	-21.24	0	0	Peak



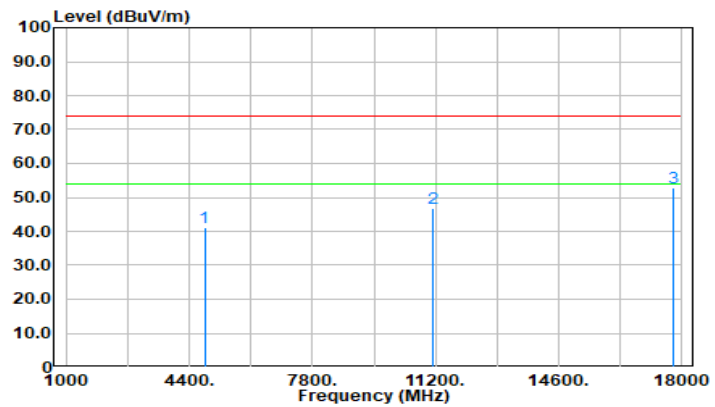
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m Vertical
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4825.000	8.84	31.08	50.95	52.01	40.98	74.00	-33.02	0	0	Peak
2	11106.500	13.30	39.79	51.54	45.38	46.93	74.00	-27.07	0	0	Peak
3	17745.000	15.11	43.71	49.05	43.17	52.94	74.00	-21.06	0	0	Peak

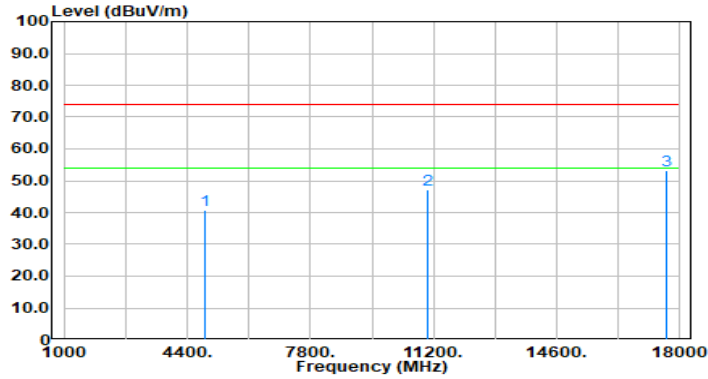
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m Horizontal
Job No :
Mode :

No.	Freq MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBuV	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark		
1	4884.500	8.90	31.21	50.97	51.68	40.82	74.00	-33.18	0	0	Peak
2	11055.500	13.28	39.81	51.52	45.58	47.15	74.00	-26.85	0	0	Peak
3	17630.250	15.10	42.70	49.12	44.38	53.06	74.00	-20.94	0	0	Peak



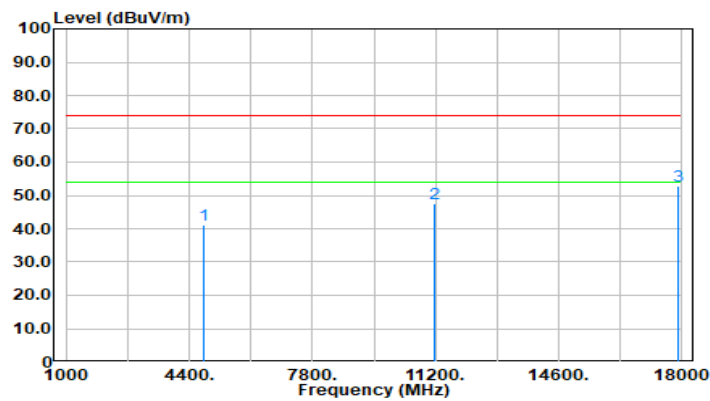
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m Vertical
Job No :
Mode :

No.	Freq MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBuV	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark		
1	4786.750	8.81	30.99	50.94	52.18	41.04	74.00	-32.96	0	0	Peak
2	11178.750	13.33	39.75	51.57	46.04	47.55	74.00	-26.45	0	0	Peak
3	17876.750	15.11	44.88	48.97	41.81	52.83	74.00	-21.17	0	0	Peak

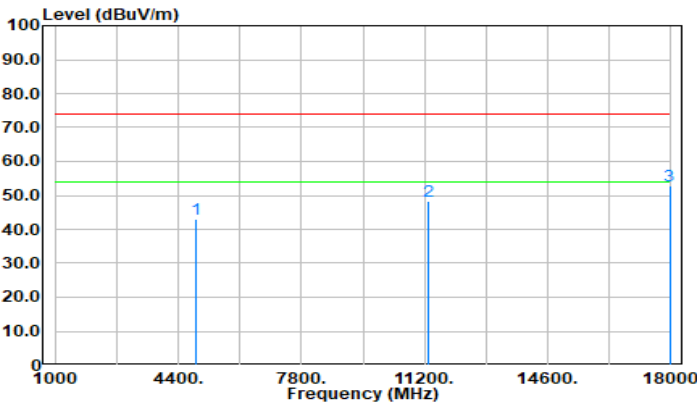
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m Horizontal
Job No :
Mode :

No.	Freq MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBuV	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark		
1	4880.250	8.89	31.20	50.96	53.98	43.11	74.00	-30.89	0	0	Peak
2	11293.500	13.38	39.69	51.62	46.69	48.14	74.00	-25.86	0	0	Peak
3	17961.750	15.12	45.63	48.92	41.09	52.92	74.00	-21.08	0	0	Peak

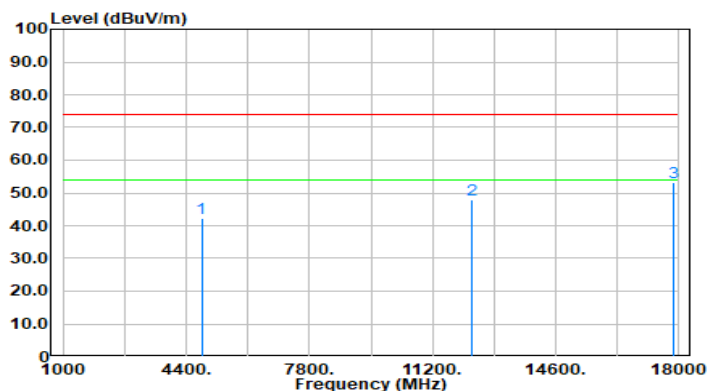
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m Vertical
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4825.000	8.84	31.08	50.95	53.42	42.39	74.00	-31.61	0	0	Peak
2	12305.000	13.62	38.43	51.90	47.90	48.05	74.00	-25.95	0	0	Peak
3	17851.250	15.11	44.66	48.99	42.52	53.30	74.00	-20.70	0	0	Peak



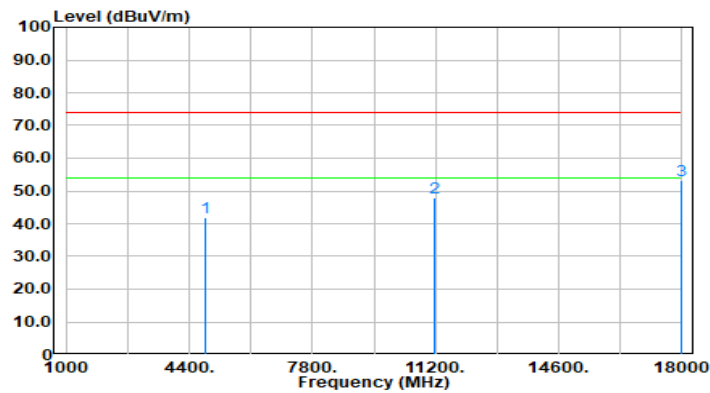
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m Horizontal
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4842.000	8.86	31.12	50.95	52.67	41.70	74.00	-32.30	0	0	Peak
2	11157.500	13.33	39.76	51.56	46.35	47.88	74.00	-26.12	0	0	Peak
3	17978.750	15.12	45.78	48.91	41.14	53.13	74.00	-20.87	0	0	Peak



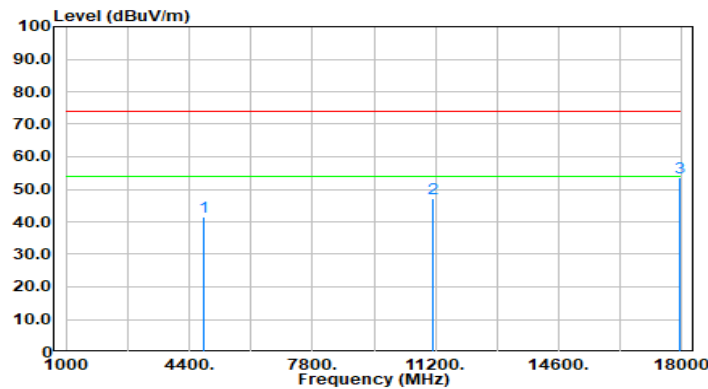
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m Vertical
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4786.750	8.81	30.99	50.94	52.75	41.61	74.00	-32.39	0	0	Peak
2	11127.750	13.31	39.78	51.55	45.62	47.16	74.00	-26.84	0	0	Peak
3	17957.500	15.12	45.60	48.93	41.82	53.61	74.00	-20.39	0	0	Peak

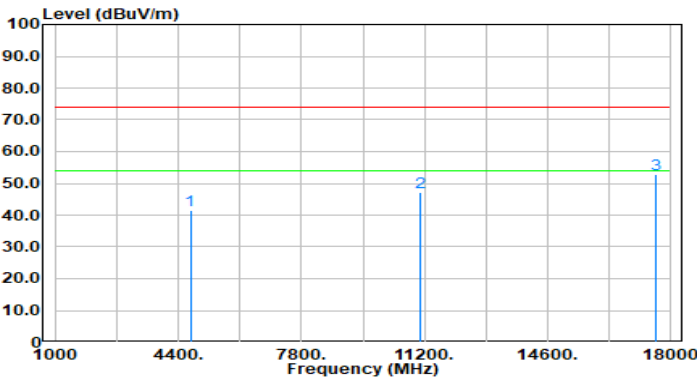
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
 Condition: 3m Horizontal
 Job No :
 Mode :

No.	Freq MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBuV	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark		
1	4735.750	8.76	30.88	50.92	52.91	41.63	74.00	-32.37	0	0	Peak
2	11068.250	13.29	39.81	51.53	45.56	47.13	74.00	-26.87	0	0	Peak
3	17570.750	15.10	42.17	49.16	44.75	52.86	74.00	-21.14	0	0	Peak



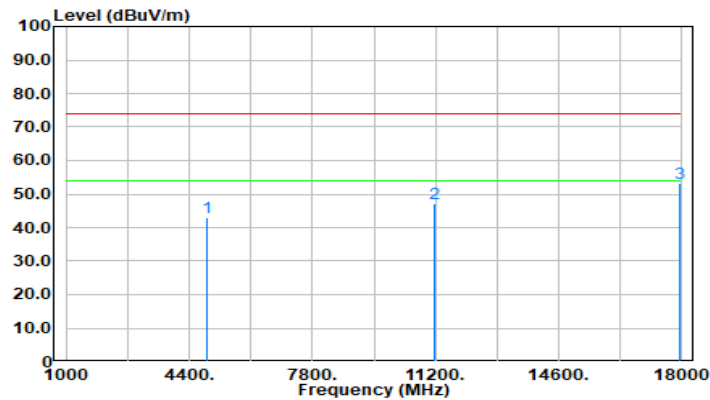
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
Condition: 3m Vertical
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4880.250	8.89	31.20	50.96	53.79	42.92	74.00	-31.08	0	0	Peak
2	11174.500	13.33	39.75	51.57	45.48	46.99	74.00	-27.01	0	0	Peak
3	17957.500	15.12	45.60	48.93	41.40	53.19	74.00	-20.81	0	0	Peak



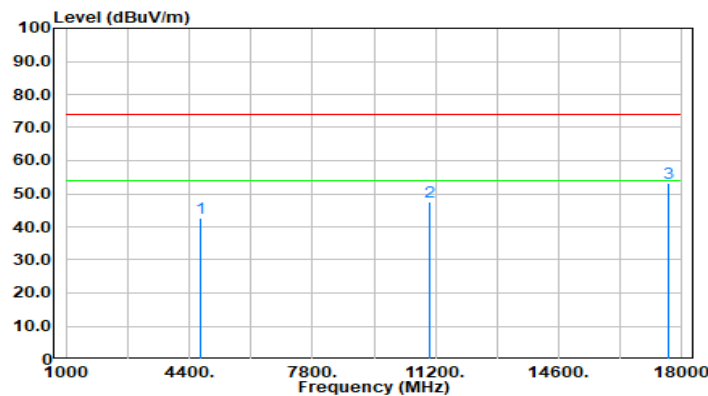
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m Vertical
Job No :
Mode :

No.	Freq MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBuV	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark		
1	4697.500	8.72	30.79	50.91	54.03	42.63	74.00	-31.37	0	0	Peak
2	11042.750	13.28	39.82	51.52	45.93	47.51	74.00	-26.49	0	0	Peak
3	17617.500	15.10	42.59	49.13	44.49	53.05	74.00	-20.95	0	0	Peak



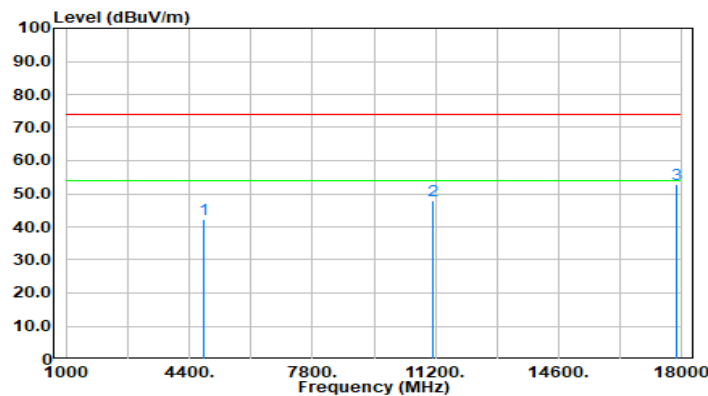
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m Horizontal
Job No :
Mode :

No.	Freq MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBuV	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark		
1	4799.500	8.82	31.02	50.94	53.47	42.37	74.00	-31.63	0	0	Peak
2	11127.750	13.31	39.78	51.55	46.55	48.09	74.00	-25.91	0	0	Peak
3	17868.250	15.11	44.81	48.98	42.05	52.99	74.00	-21.01	0	0	Peak



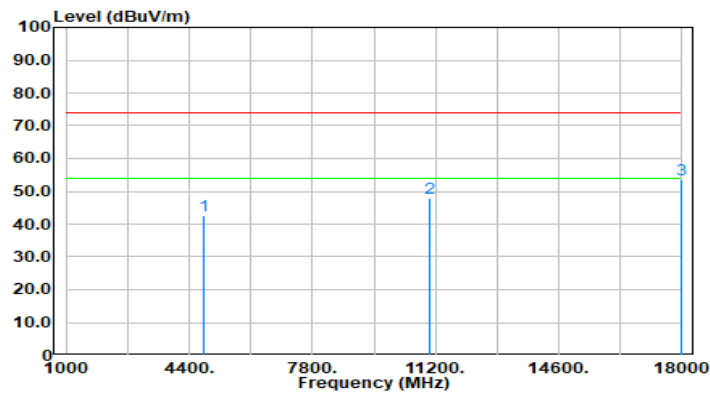
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m Horizontal
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4799.500	8.82	31.02	50.94	53.68	42.58	74.00	-31.42	0	0	Peak
2	11042.750	13.28	39.82	51.52	46.16	47.74	74.00	-26.26	0	0	Peak
3	17995.750	15.12	45.94	48.90	41.43	53.59	74.00	-20.41	0	0	Peak



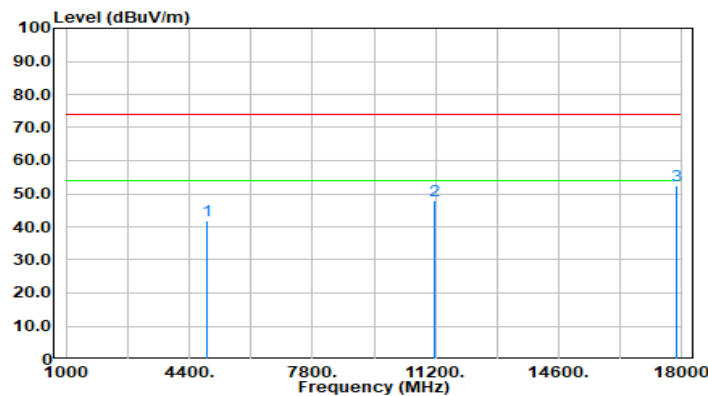
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m Vertical
Job No :
Mode :

No.	Freq MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBuV	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark		
1	4876.000	8.89	31.19	50.96	52.86	41.98	74.00	-32.02	0	0	Peak
2	11174.500	13.33	39.75	51.57	46.40	47.91	74.00	-26.09	0	0	Peak
3	17859.750	15.11	44.73	48.98	41.76	52.62	74.00	-21.38	0	0	Peak



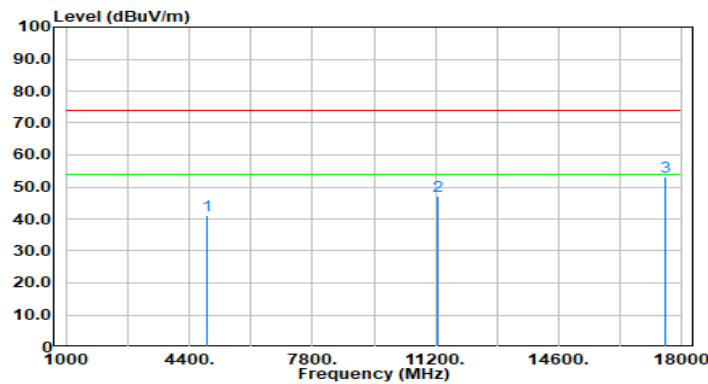
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m Horizontal
Job No :
Mode :

No.	Freq MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBuV	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark		
1	4880.250	8.89	31.20	50.96	51.87	41.00	74.00	-33.00	0	0	Peak
2	11242.500	13.36	39.72	51.60	45.71	47.19	74.00	-26.81	0	0	Peak
3	17528.250	15.10	41.80	49.18	45.51	53.23	74.00	-20.77	0	0	Peak



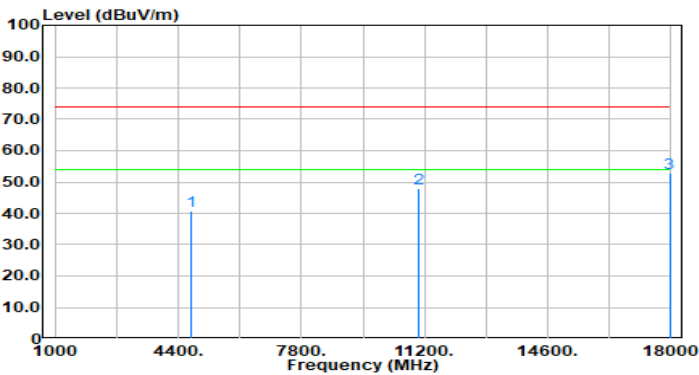
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m Vertical
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4761.250	8.78	30.94	50.93	52.08	40.87	74.00	-33.13	0	0	Peak
2	11038.500	13.28	39.82	51.52	46.17	47.75	74.00	-26.25	0	0	Peak
3	17961.750	15.12	45.63	48.92	41.11	52.94	74.00	-21.06	0	0	Peak



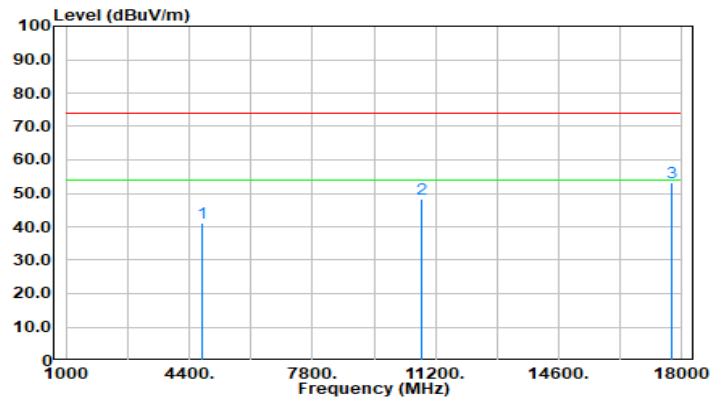
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m Horizontal
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4769.750	8.79	30.95	50.93	52.48	41.29	74.00	-32.71	0	0	Peak
2	10821.750	13.11	39.66	51.48	47.05	48.34	74.00	-25.66	0	0	Peak
3	17711.000	15.10	43.41	49.07	43.72	53.16	74.00	-20.84	0	0	Peak



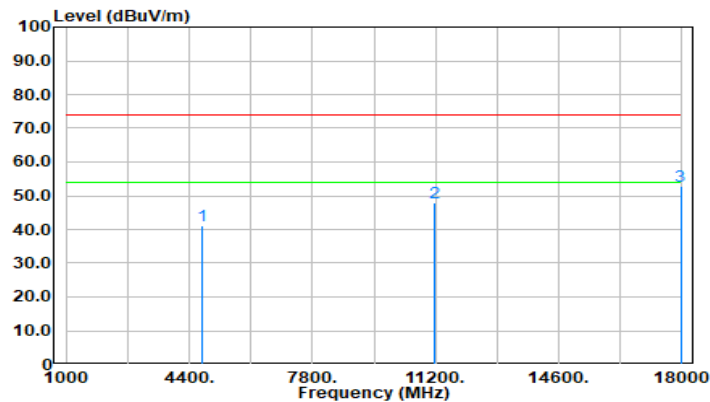
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m Vertical
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4774.000	8.79	30.96	50.93	52.30	41.12	74.00	-32.88	0	0	Peak
2	11174.500	13.33	39.75	51.57	46.29	47.80	74.00	-26.20	0	0	Peak
3	17961.750	15.12	45.63	48.92	41.18	53.01	74.00	-20.99	0	0	Peak



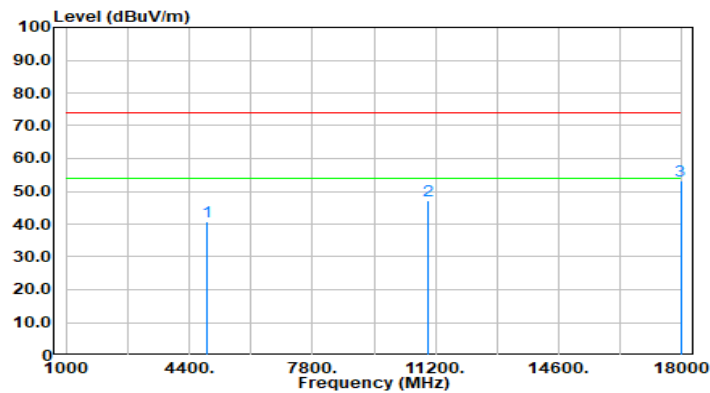
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m Horizontal
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4876.000	8.89	31.19	50.96	51.81	40.93	74.00	-33.07	0	0	Peak
2	10996.000	13.26	39.84	51.50	45.66	47.26	74.00	-26.74	0	0	Peak
3	17961.750	15.12	45.63	48.92	41.43	53.26	74.00	-20.74	0	0	Peak



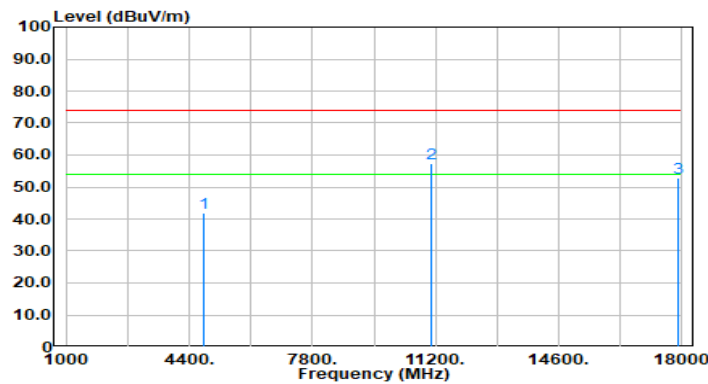
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m Vertical
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4799.500	8.82	31.02	50.94	52.86	41.76	74.00	-32.24	0	0	Peak
2	11064.000	13.29	39.81	51.53	55.79	57.36	74.00	-16.64	0	0	Peak
3	17876.750	15.11	44.88	48.97	41.96	52.98	74.00	-21.02	0	0	Peak



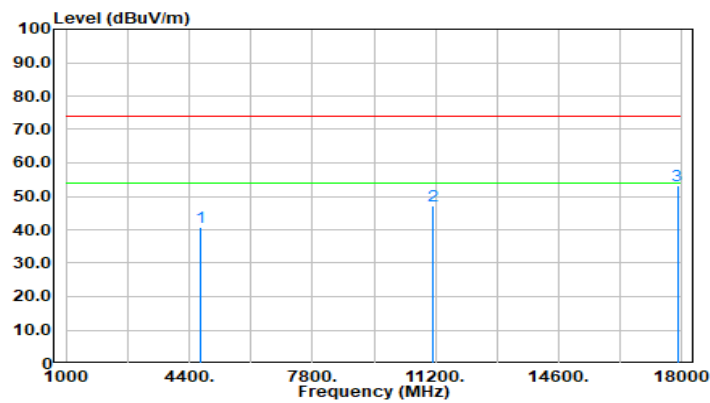
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Site : chamber
Condition: 3m Horizontal
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4697.500	8.72	30.79	50.91	52.34	40.94	74.00	-33.06	0	0	Peak
2	11110.750	13.31	39.79	51.54	45.61	47.17	74.00	-26.83	0	0	Peak
3	17872.500	15.11	44.84	48.98	42.24	53.21	74.00	-20.79	0	0	Peak



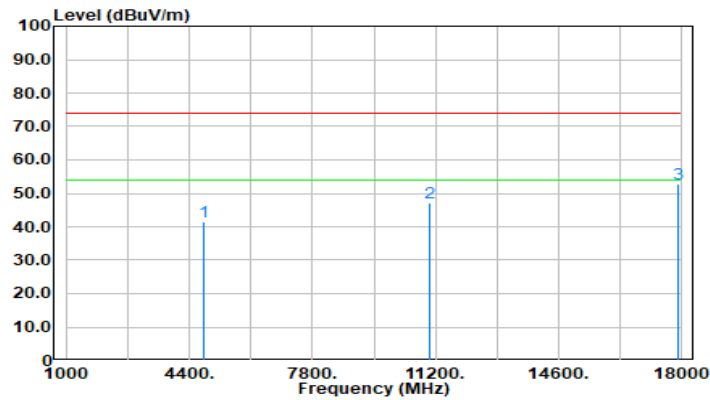
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Site : chamber
Condition: 3m Vertical
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4782.500	8.80	30.98	50.93	52.67	41.52	74.00	-32.48	0	0	Peak
2	11034.250	13.28	39.82	51.51	45.59	47.18	74.00	-26.82	0	0	Peak
3	17876.750	15.11	44.88	48.97	41.83	52.85	74.00	-21.15	0	0	Peak



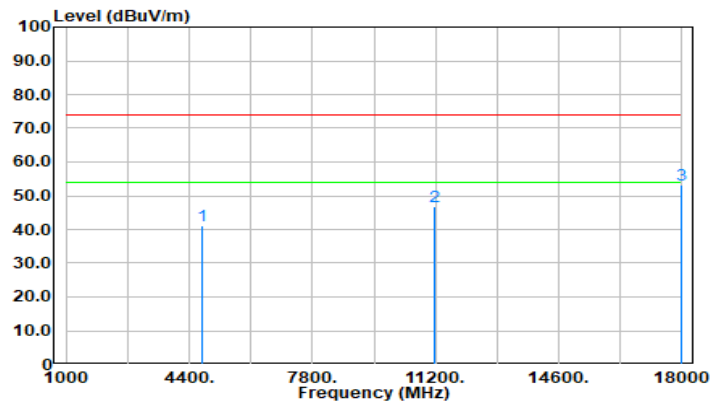
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m Horizontal
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4778.250	8.80	30.97	50.93	52.35	41.19	74.00	-32.81	0	0	Peak
2	11178.750	13.33	39.75	51.57	45.38	46.89	74.00	-27.11	0	0	Peak
3	18000.000	15.12	45.97	48.90	40.97	53.16	74.00	-20.84	0	0	Peak



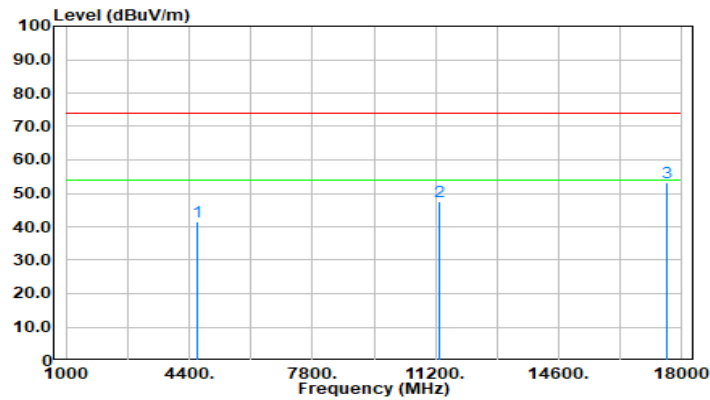
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m Vertical
Job No :
Mode :

No.	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	4642.250	8.67	30.67	50.89	53.24	41.69	74.00	-32.31	0	0	Peak
2	11297.750	13.38	39.69	51.62	46.16	47.61	74.00	-26.39	0	0	Peak
3	17583.500	15.10	42.28	49.15	44.97	53.20	74.00	-20.80	0	0	Peak

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7.5 Conducted Peak Output Power

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

Test Method: ANSI C63.10 (2013) Section 11.9.1

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C

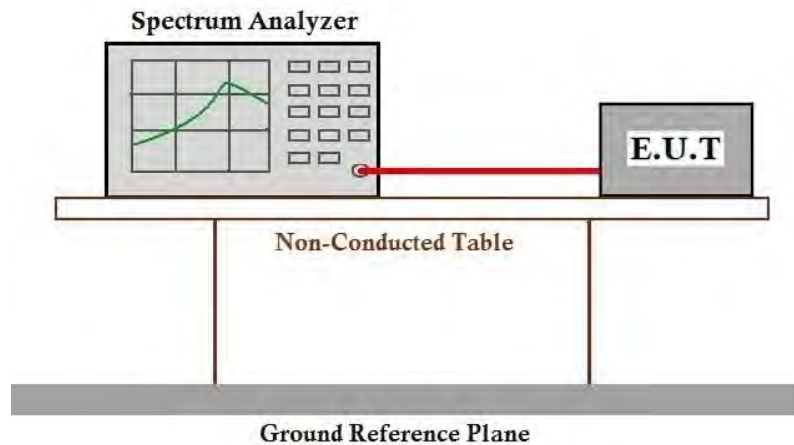
Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 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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7.6 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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C

Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

7.6.3 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.7 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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C

Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

7.7.3 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 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)).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

7.8.3 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.9 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)).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C

Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

7.9.3 Measurement Procedure and Data

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2407001342AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2407001342AT

10 Appendix

1. Duty Cycle

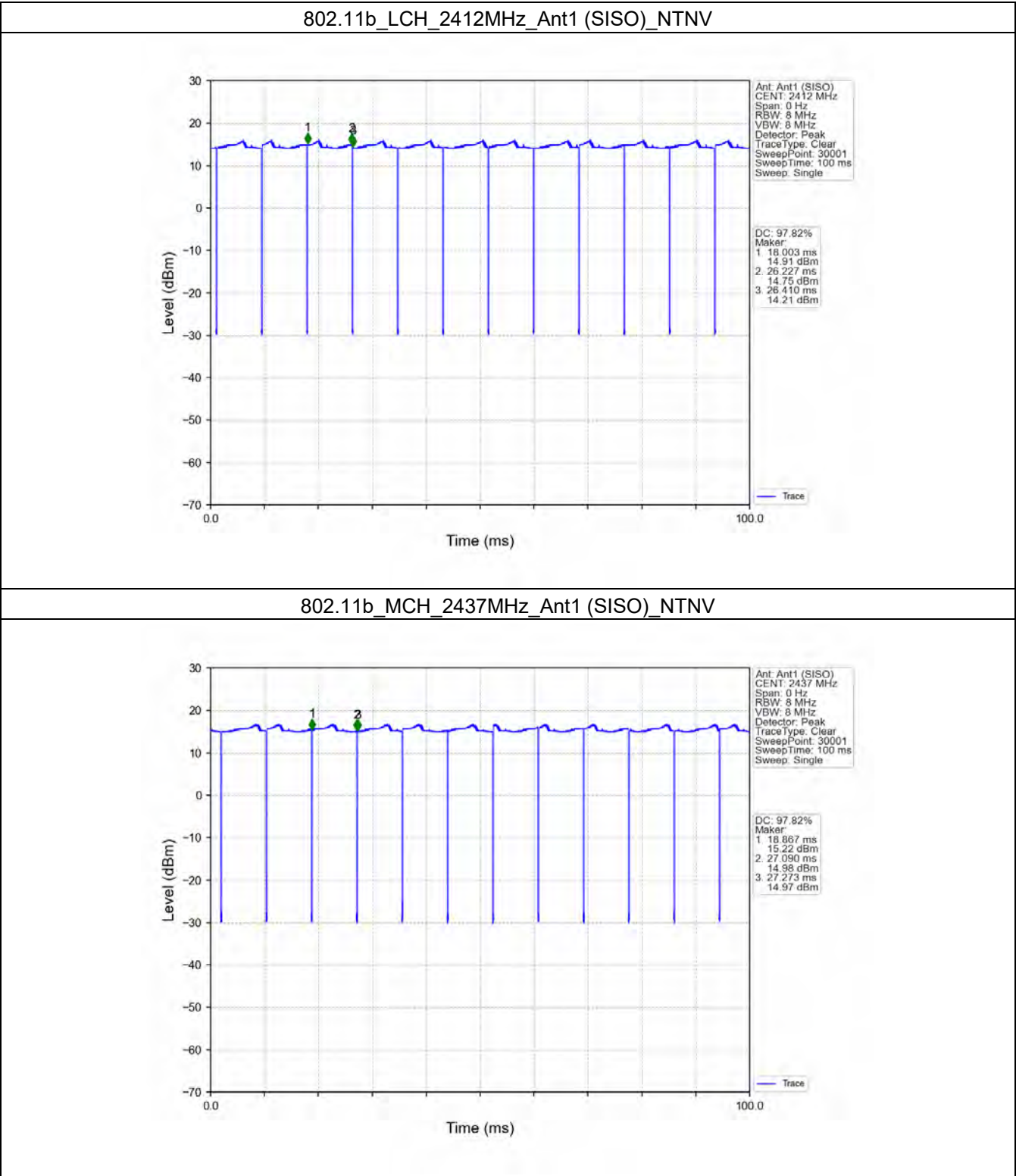
1.1 Test Result

1.1.1 Ant1

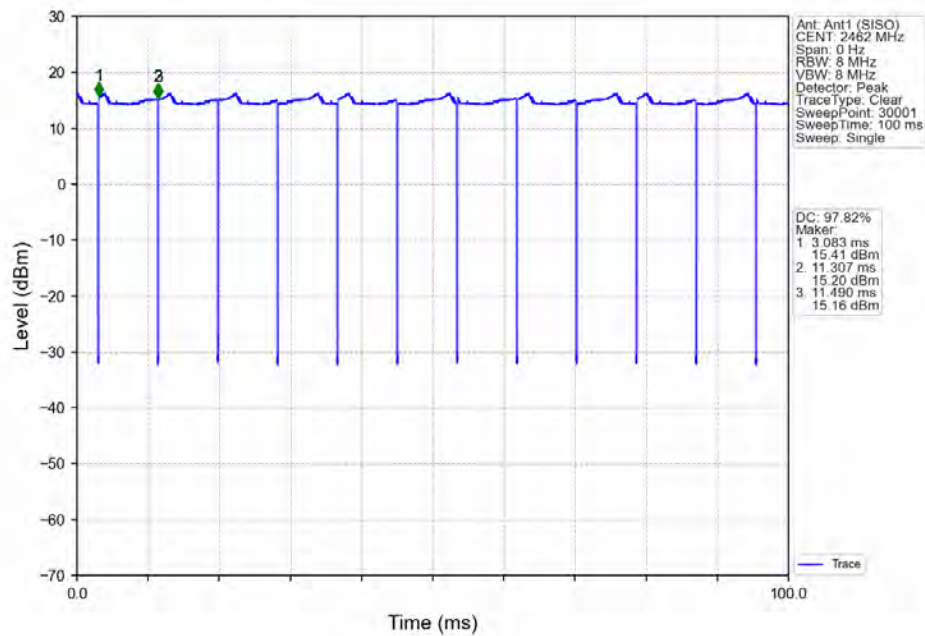
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.224	8.407	97.82	0.10	0.04
		2437	/	/	8.223	8.406	97.82	0.10	0.04
		2462	/	/	8.224	8.407	97.82	0.10	0.04
802.11g	SISO	2412	/	/	1.364	1.550	88.00	0.56	0.03
		2437	/	/	1.365	1.550	88.06	0.55	0.03
		2462	/	/	1.364	1.550	88.00	0.56	0.03
802.11n (HT20)	SISO	2412	/	/	1.276	1.462	87.28	0.59	0.00
		2437	/	/	1.277	1.463	87.29	0.59	0.06
		2462	/	/	1.276	1.462	87.28	0.59	0.03
802.11n (HT40)	SISO	2422	/	/	0.636	0.822	77.37	1.11	0.03
		2437	/	/	0.637	0.822	77.49	1.11	0.03
		2452	/	/	0.636	0.822	77.37	1.11	0.03
802.11ax (HEW20)	SISO	2412	RU242	Left	0.996	1.182	84.26	0.74	0.03
		2437	RU242	Left	0.996	1.181	84.34	0.74	0.01
		2462	RU242	Left	0.996	1.182	84.26	0.74	0.03
802.11ax (HEW40)	SISO	2422	RU484	Left	0.528	0.714	73.95	1.31	0.03
		2437	RU484	Left	0.528	0.714	73.95	1.31	0.04
		2452	RU484	Left	0.528	0.714	73.95	1.31	0.06

1.2 Test Graph

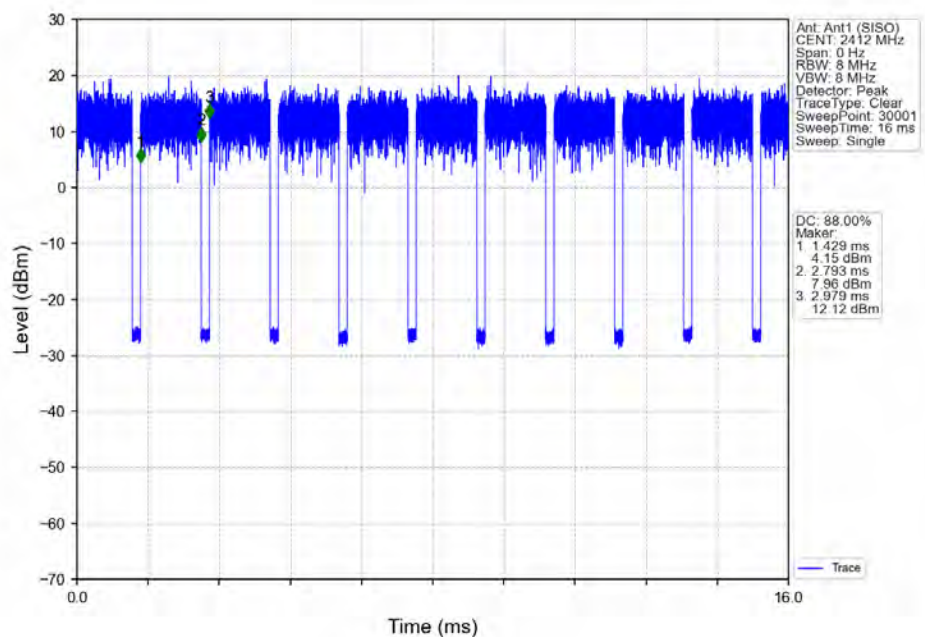
1.2.1 Ant1



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



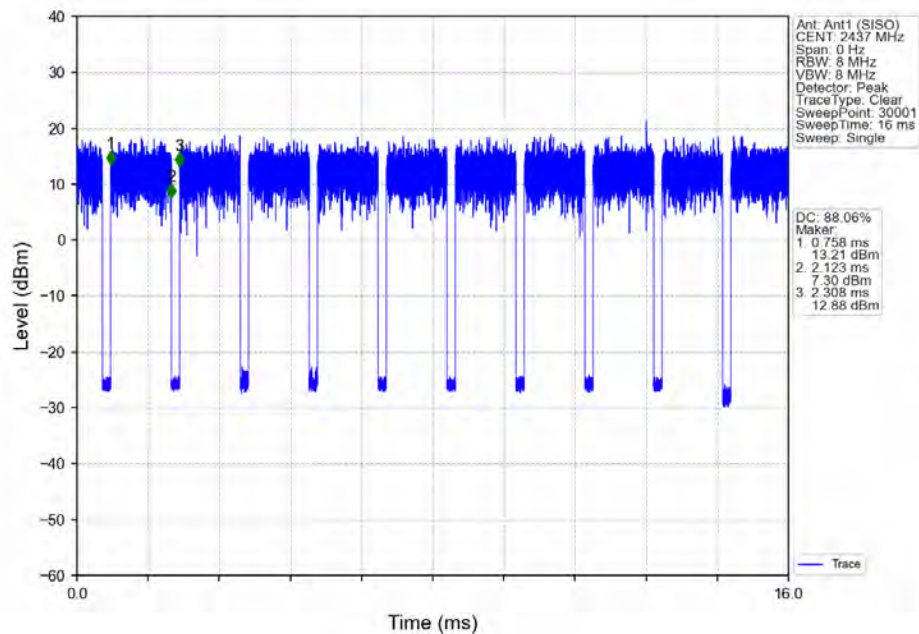
Compliance Certification Services (Kunshan) Inc.

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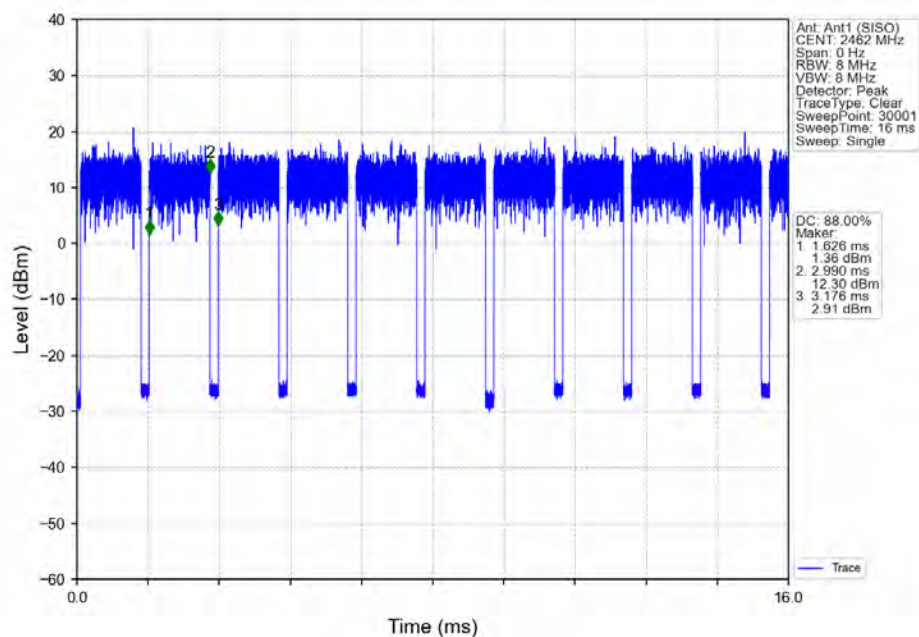
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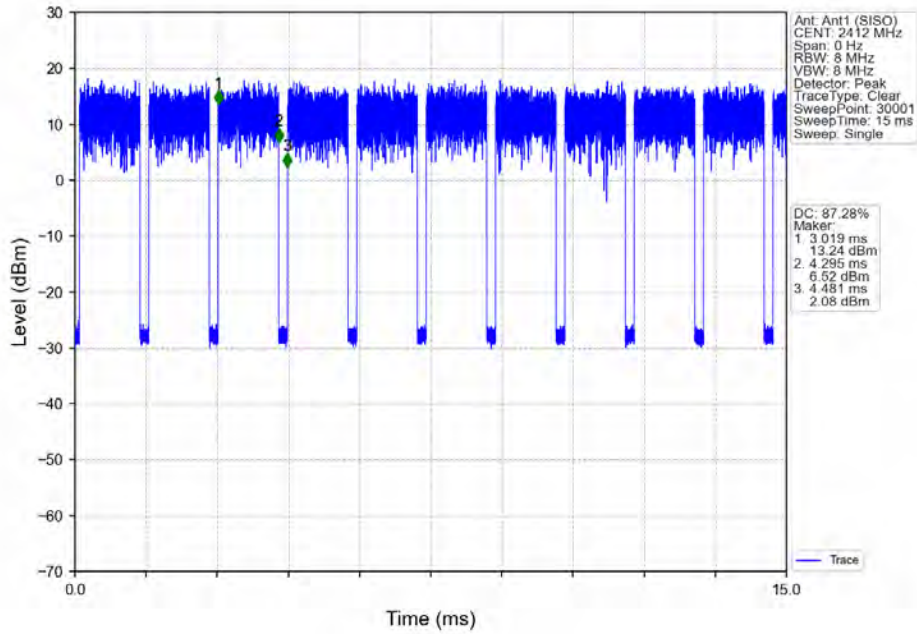
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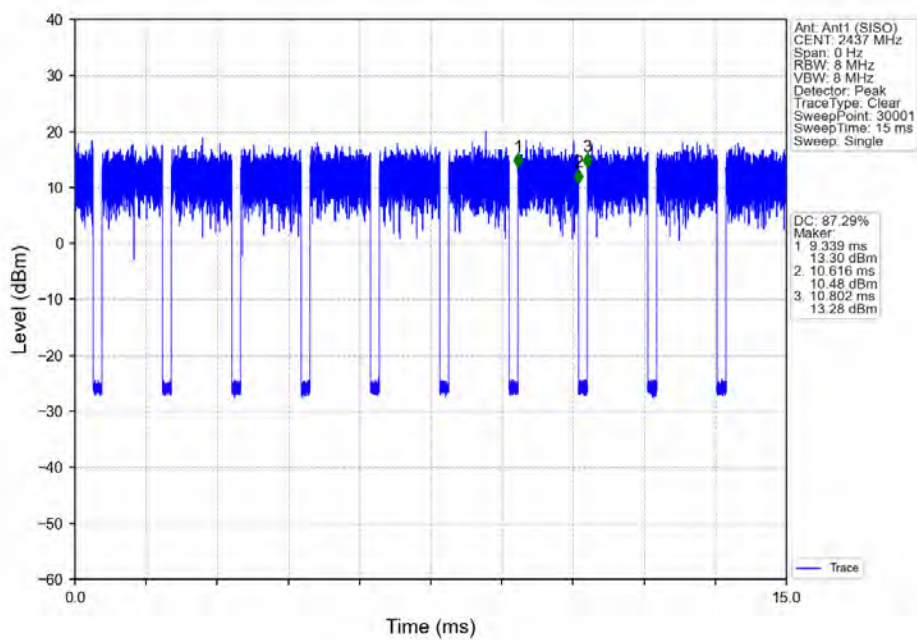
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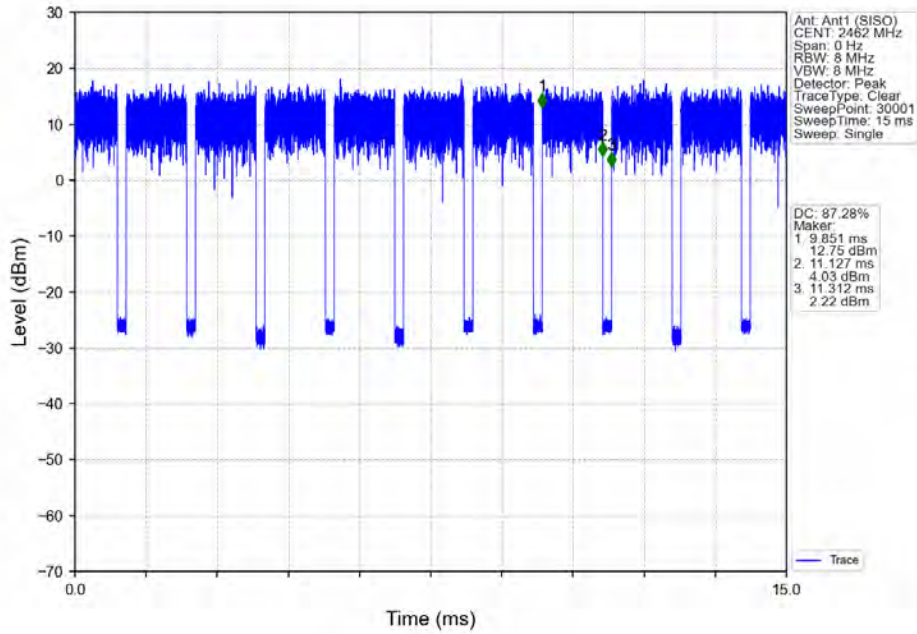
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



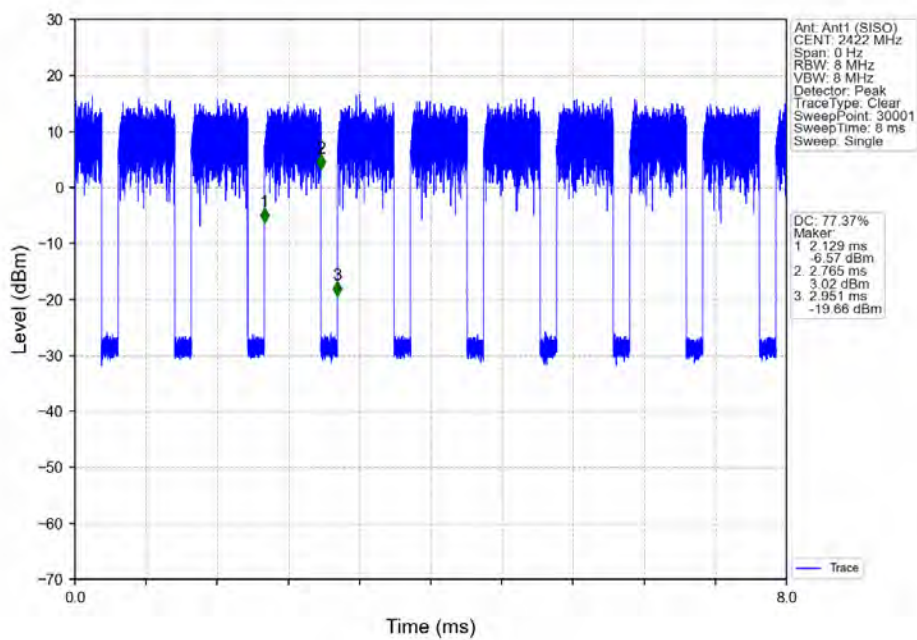
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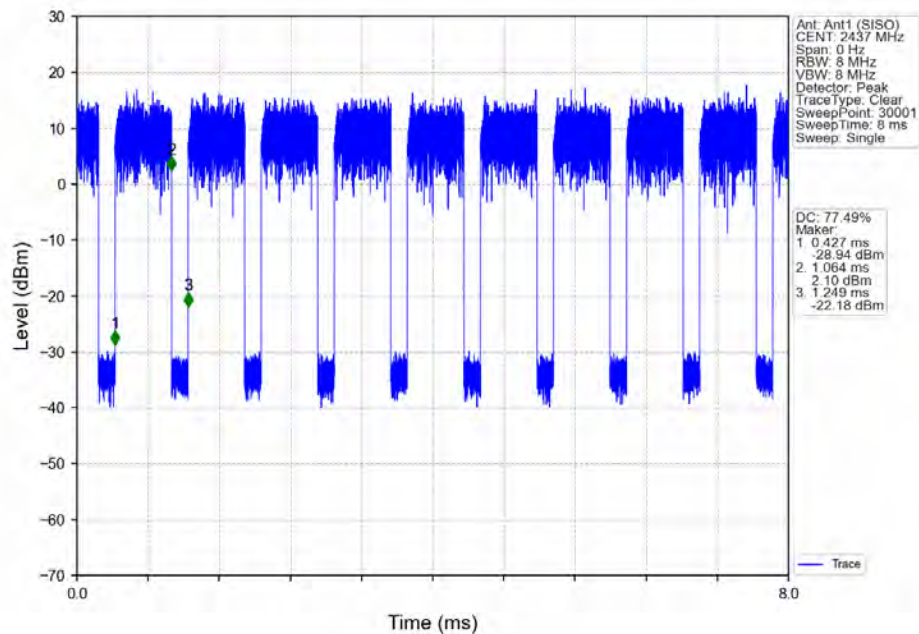
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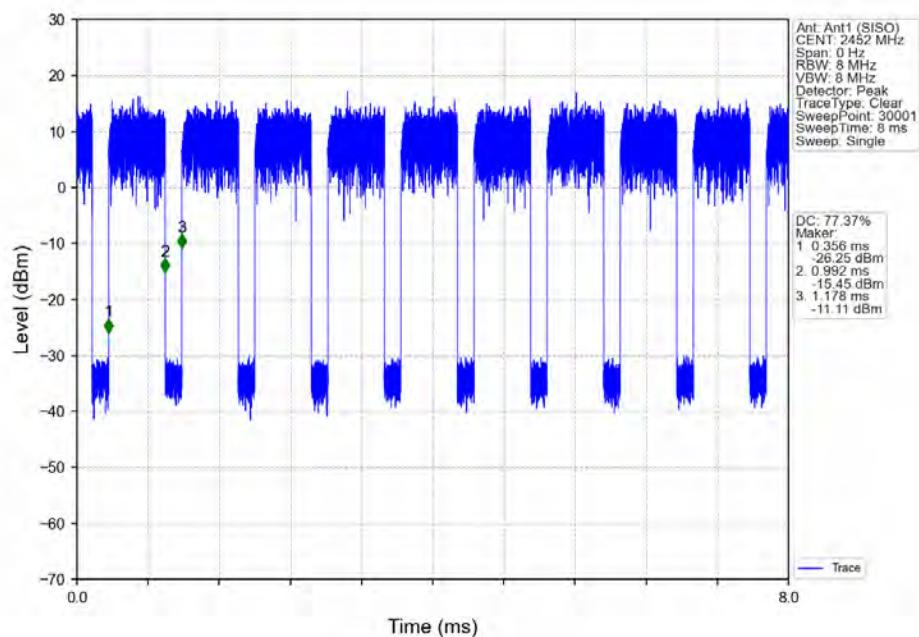
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



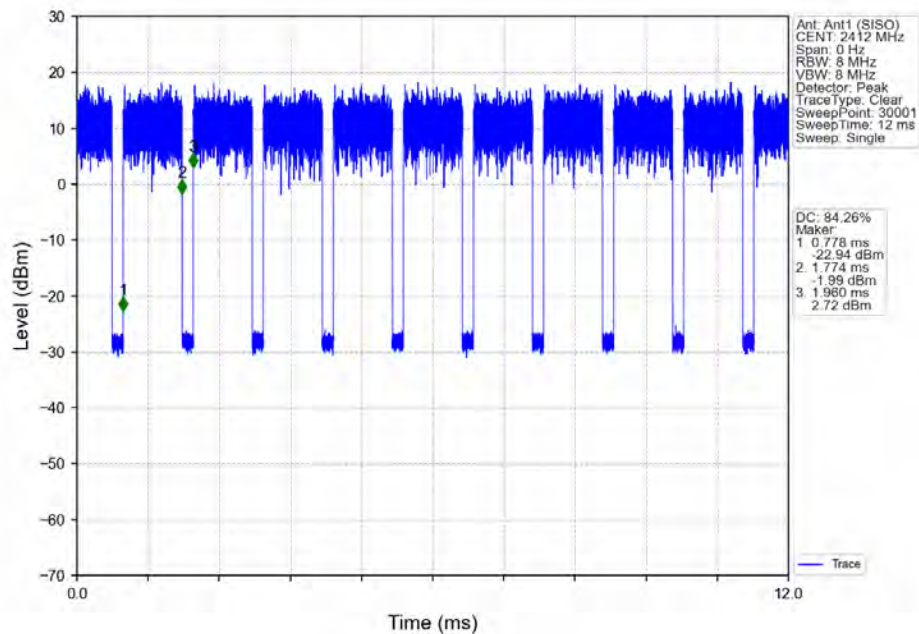
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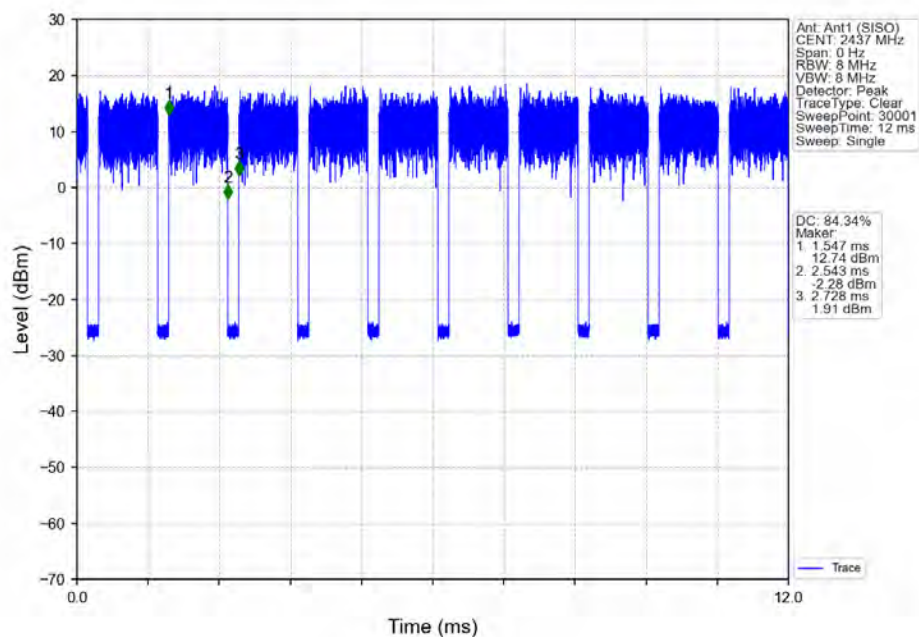
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



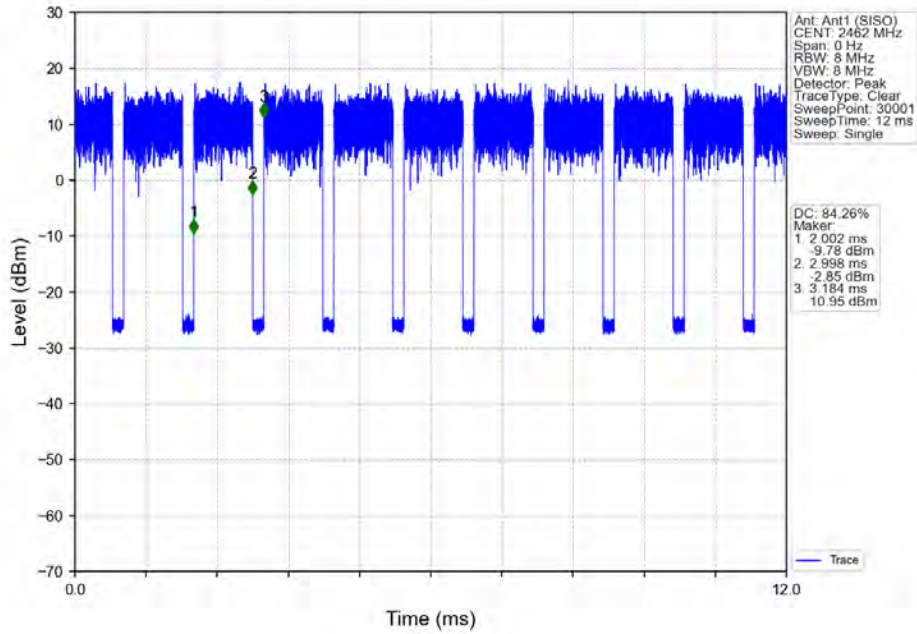
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



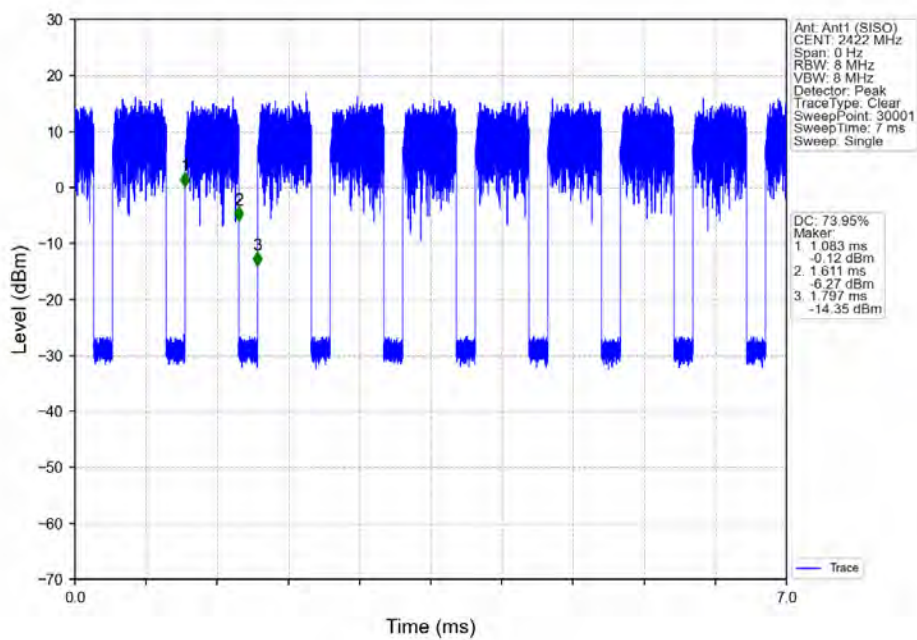
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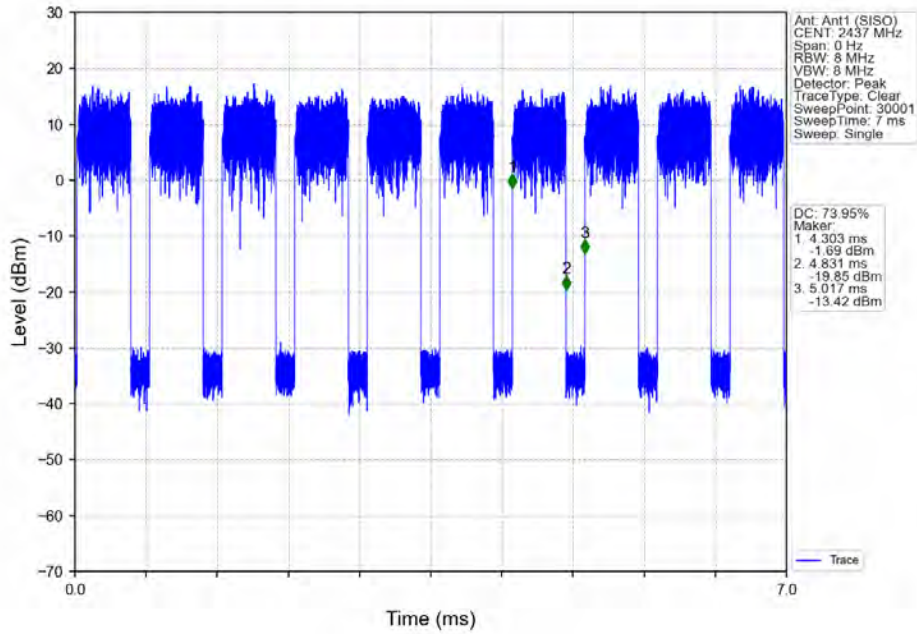
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



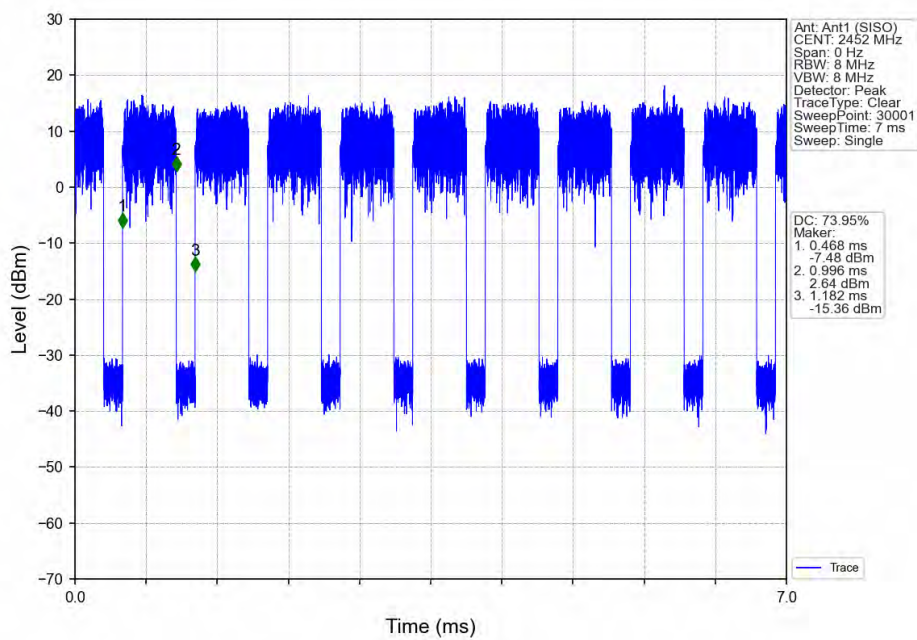
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	13.968	/	Pass
		2437	/	/	1	13.975	/	Pass
		2462	/	/	1	13.978	/	Pass
802.11g	SISO	2412	/	/	1	16.437	/	Pass
		2437	/	/	1	16.416	/	Pass
		2462	/	/	1	16.454	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.368	/	Pass
		2437	/	/	1	17.364	/	Pass
		2462	/	/	1	17.412	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	35.299	/	Pass
		2437	/	/	1	35.244	/	Pass
		2452	/	/	1	35.369	/	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	1	18.150	/	Pass
		2437	RU242	Left	1	18.130	/	Pass
		2462	RU242	Left	1	18.174	/	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	1	36.469	/	Pass
		2437	RU484	Left	1	36.468	/	Pass
		2452	RU484	Left	1	36.555	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	9.111	≥ 0.5	Pass
		2437	/	/	1	9.600	≥ 0.5	Pass
		2462	/	/	1	10.043	≥ 0.5	Pass
802.11g	SISO	2412	/	/	1	12.675	≥ 0.5	Pass
		2437	/	/	1	13.840	≥ 0.5	Pass
		2462	/	/	1	12.678	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	13.821	≥ 0.5	Pass
		2437	/	/	1	13.843	≥ 0.5	Pass
		2462	/	/	1	13.838	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	31.356	≥ 0.5	Pass
		2437	/	/	1	31.362	≥ 0.5	Pass
		2452	/	/	1	31.370	≥ 0.5	Pass



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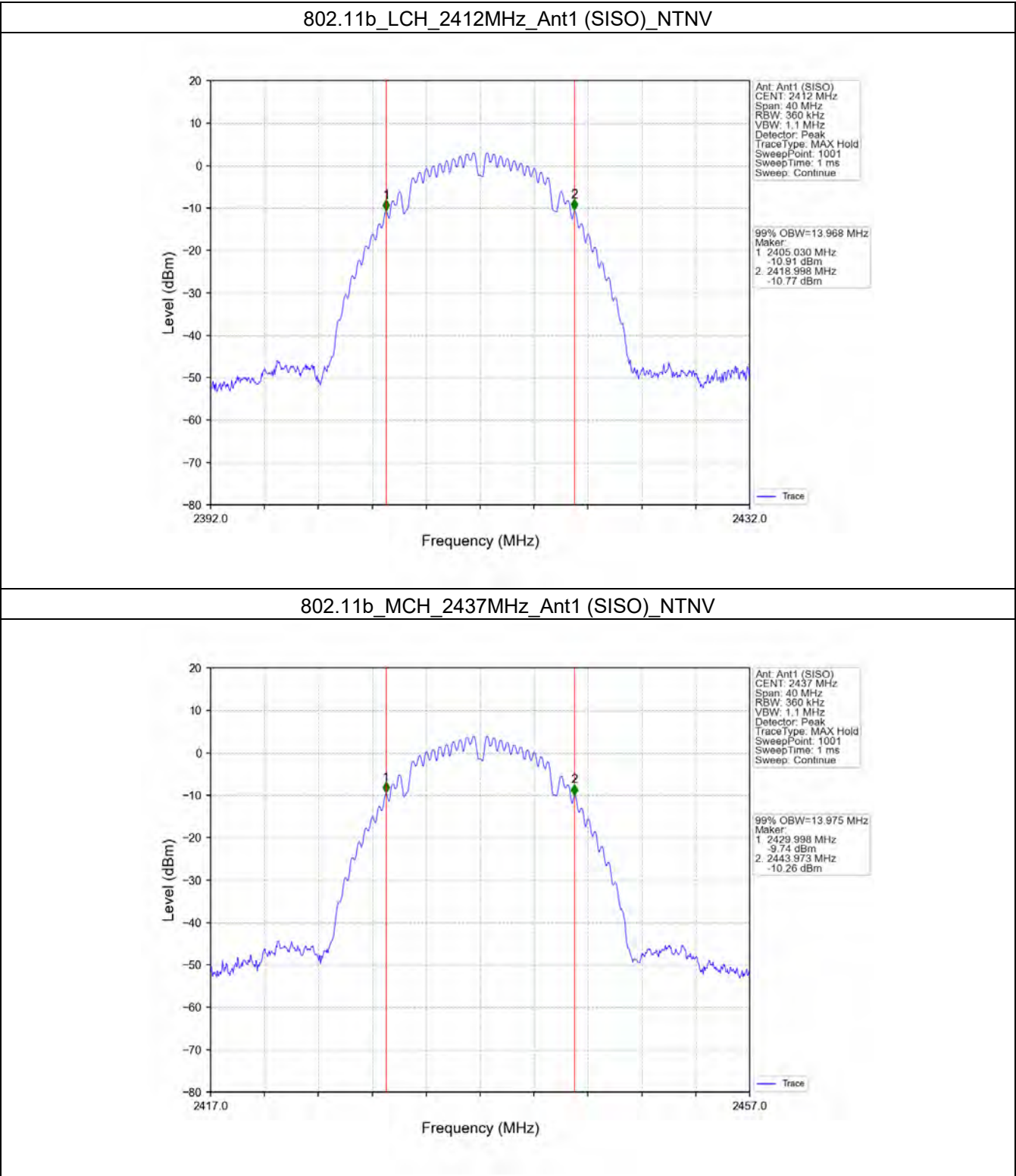
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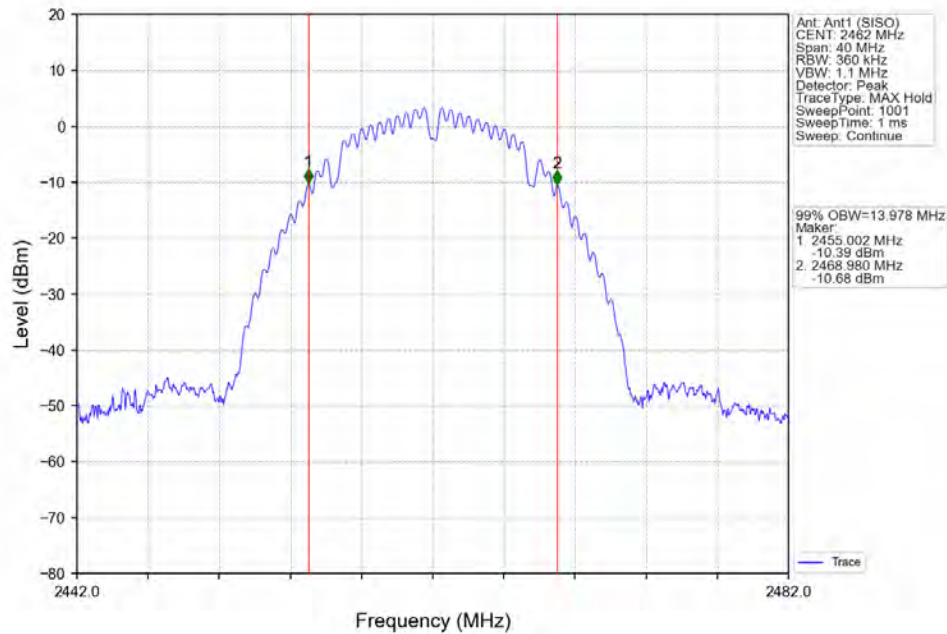
802.11ax (HEW20)	SISO	2412	RU242	Left	1	12.665	≥ 0.5	Pass
		2437	RU242	Left	1	13.839	≥ 0.5	Pass
		2462	RU242	Left	1	13.856	≥ 0.5	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	1	31.367	≥ 0.5	Pass
		2437	RU484	Left	1	31.365	≥ 0.5	Pass
		2452	RU484	Left	1	31.373	≥ 0.5	Pass

2.2 Test Graph

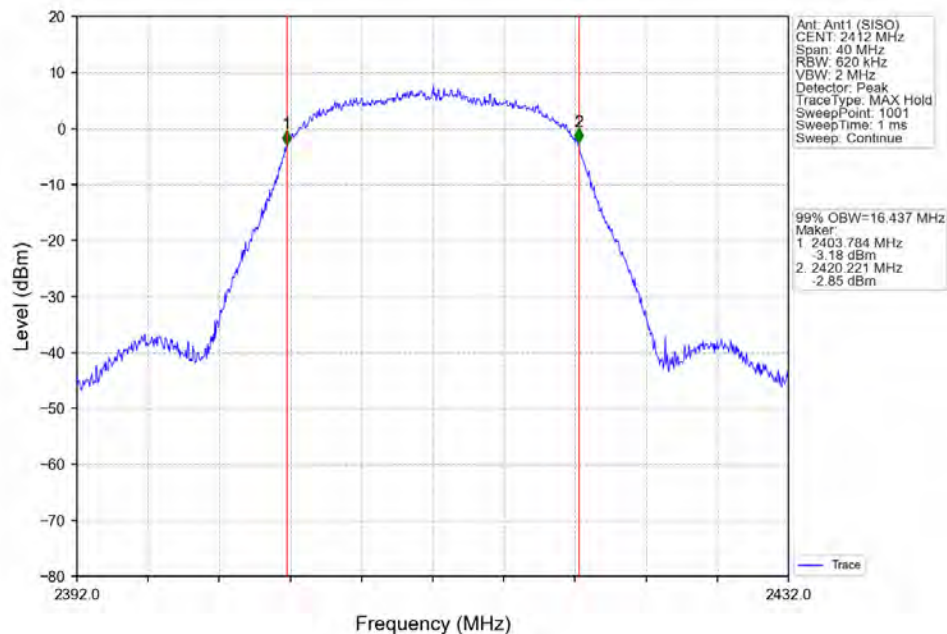
2.2.1 OBW



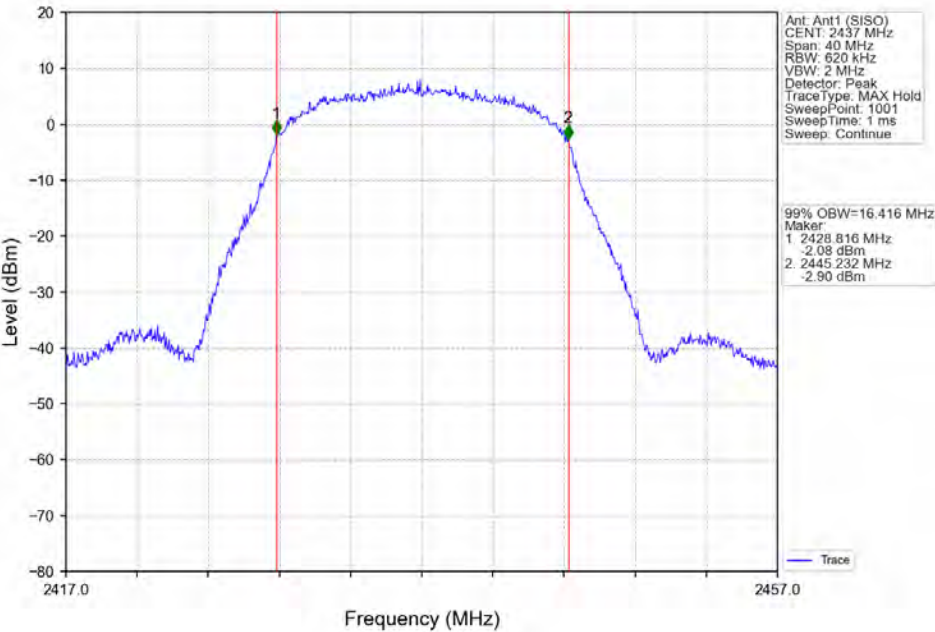
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



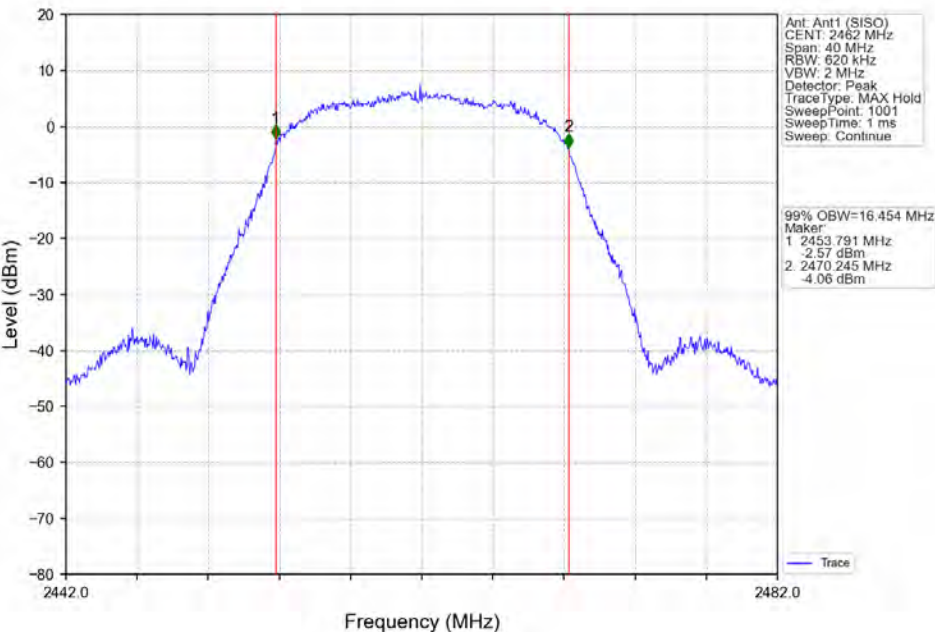
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



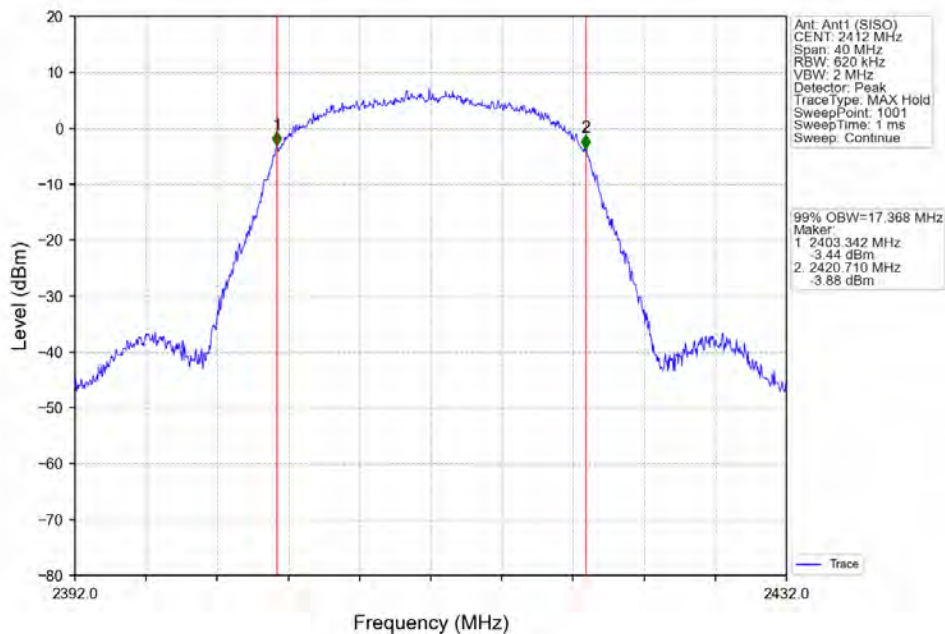
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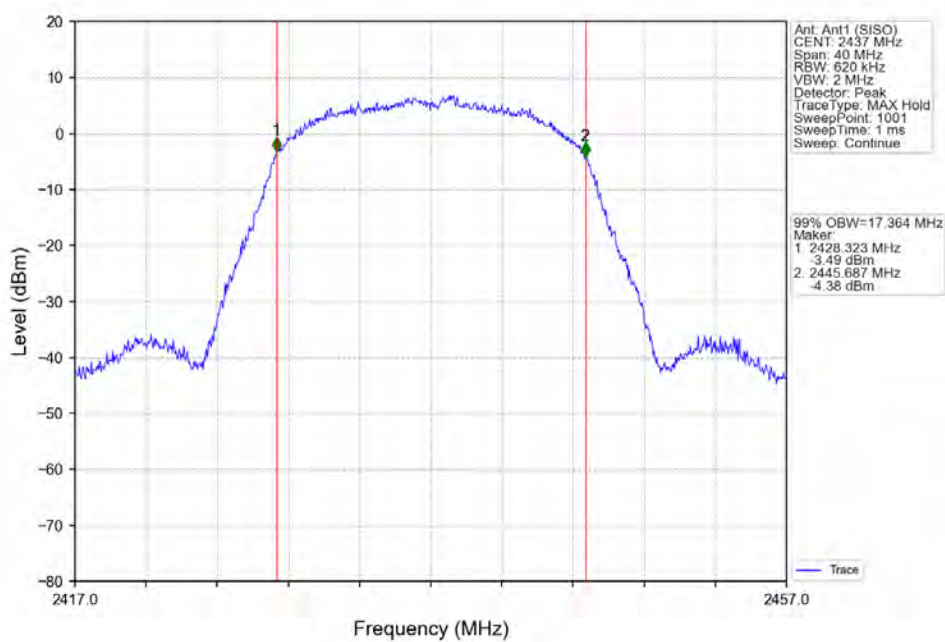
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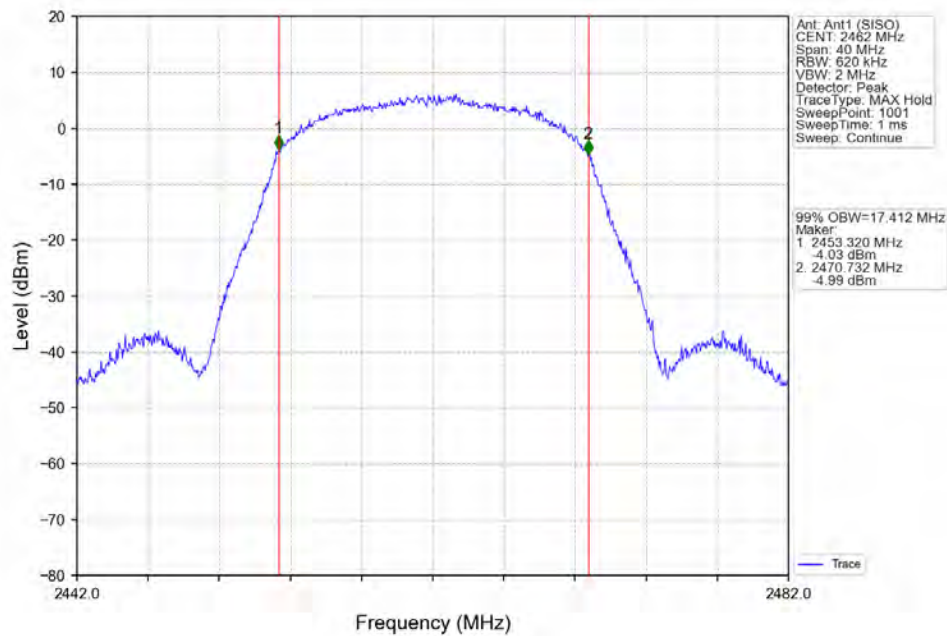
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



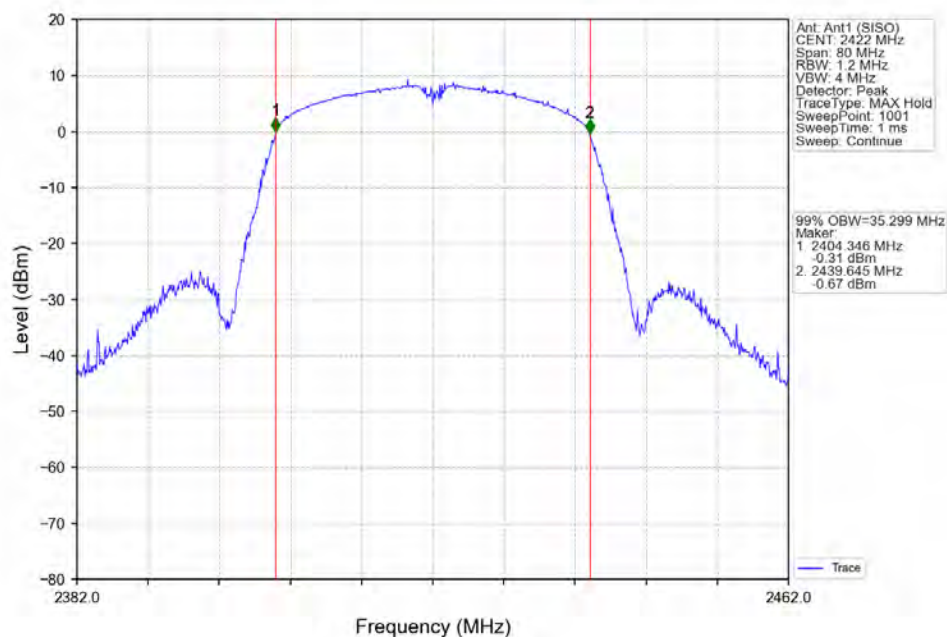
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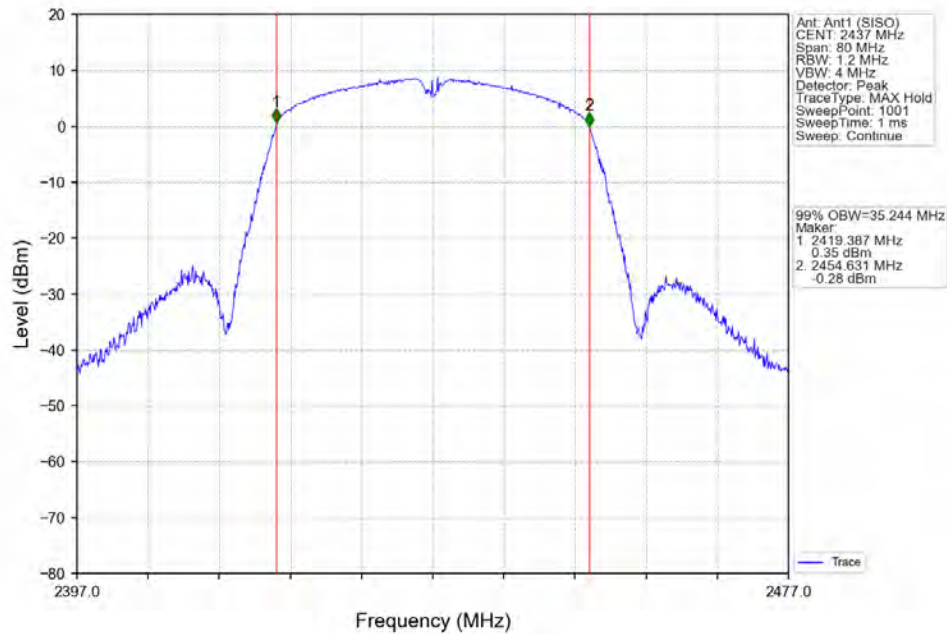
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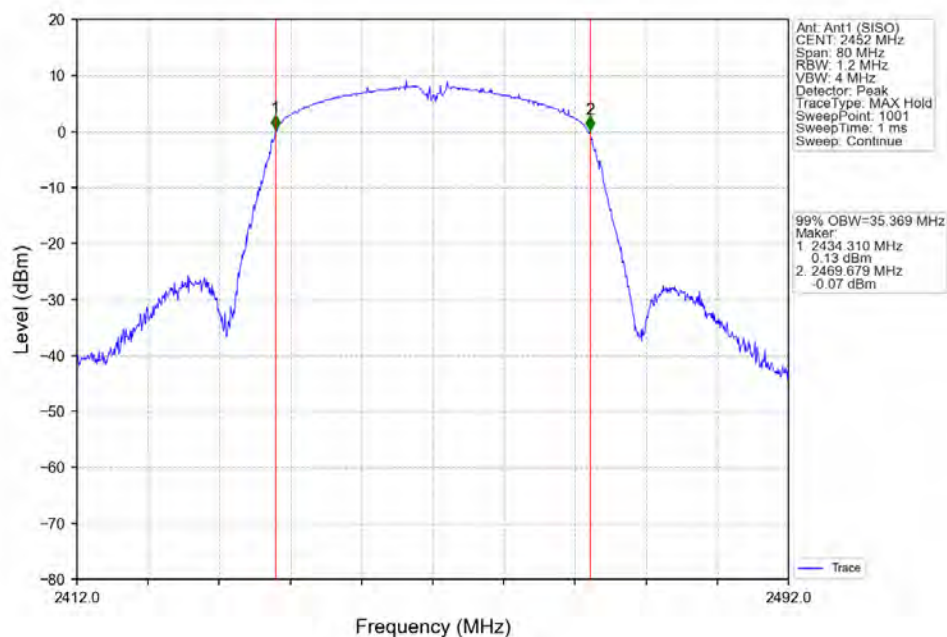
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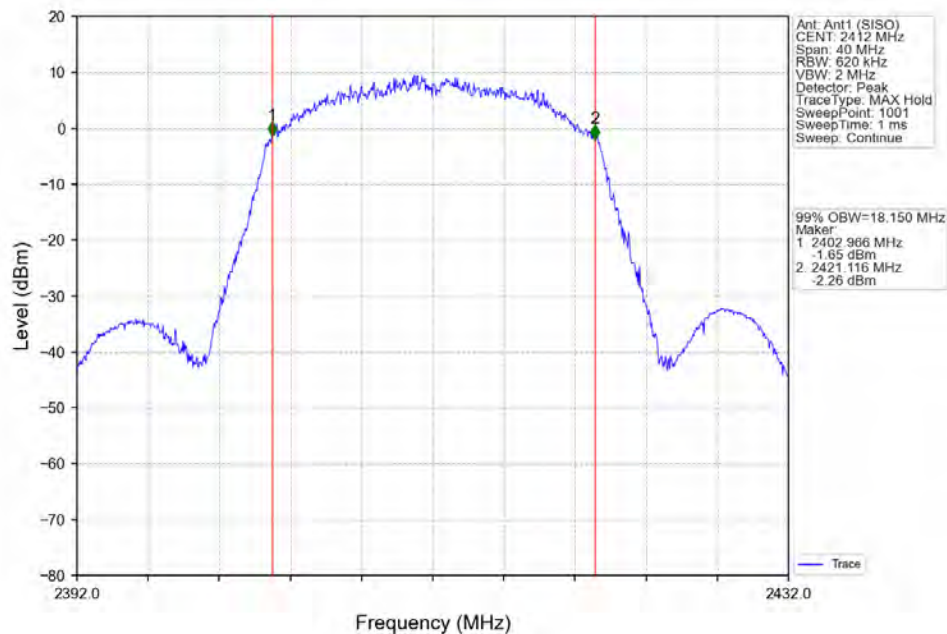
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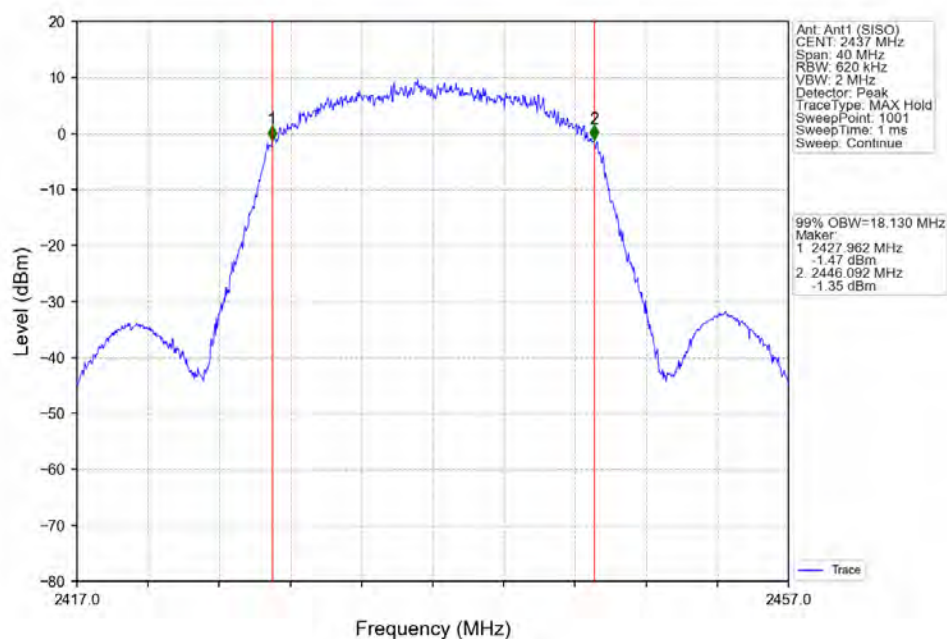
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



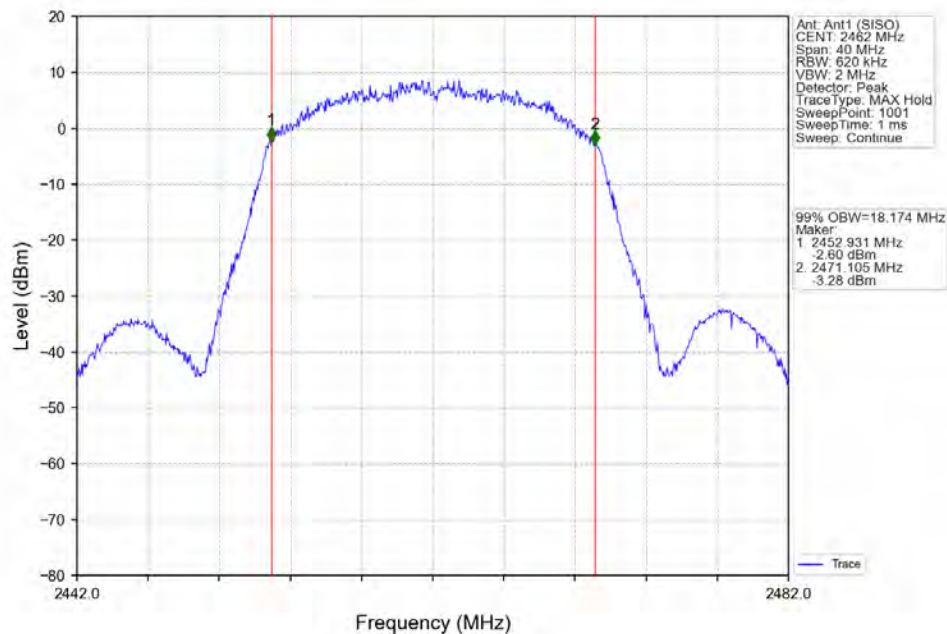
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



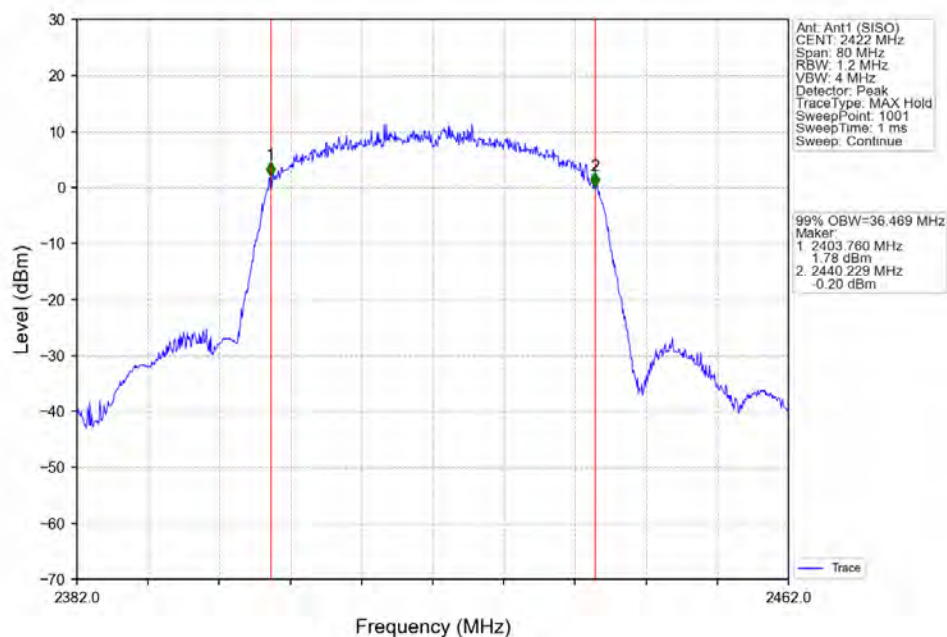
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802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



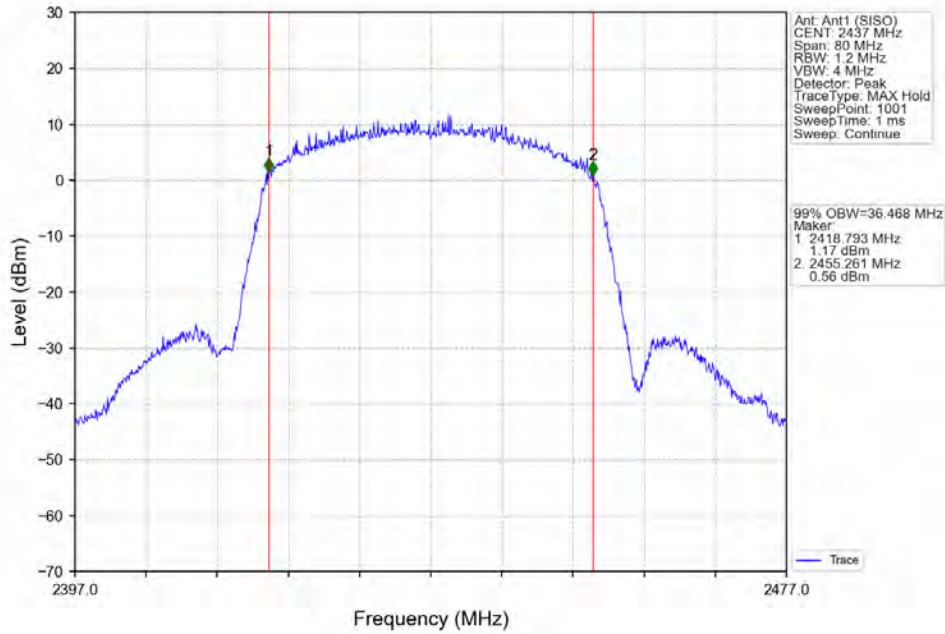
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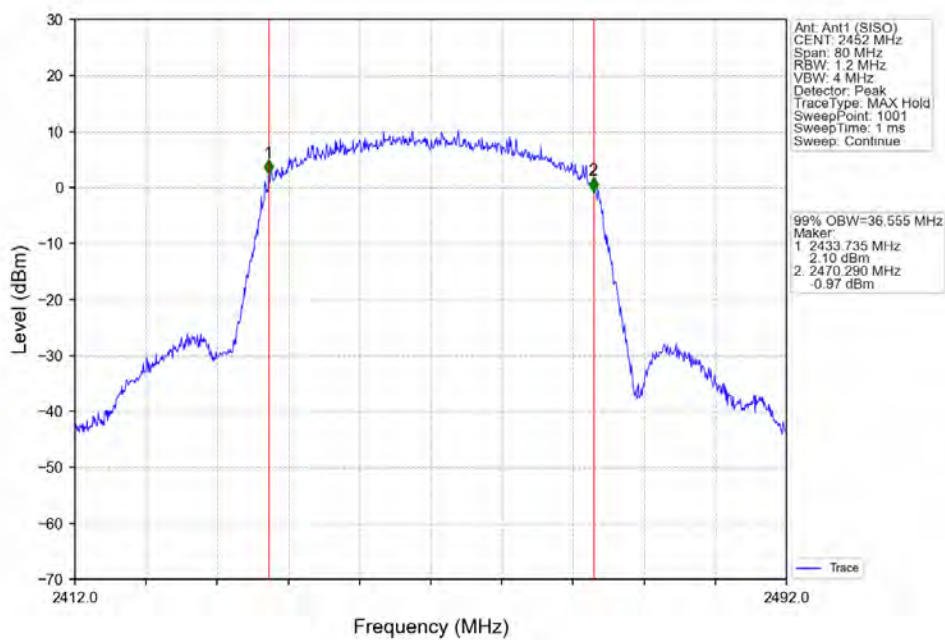
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802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV

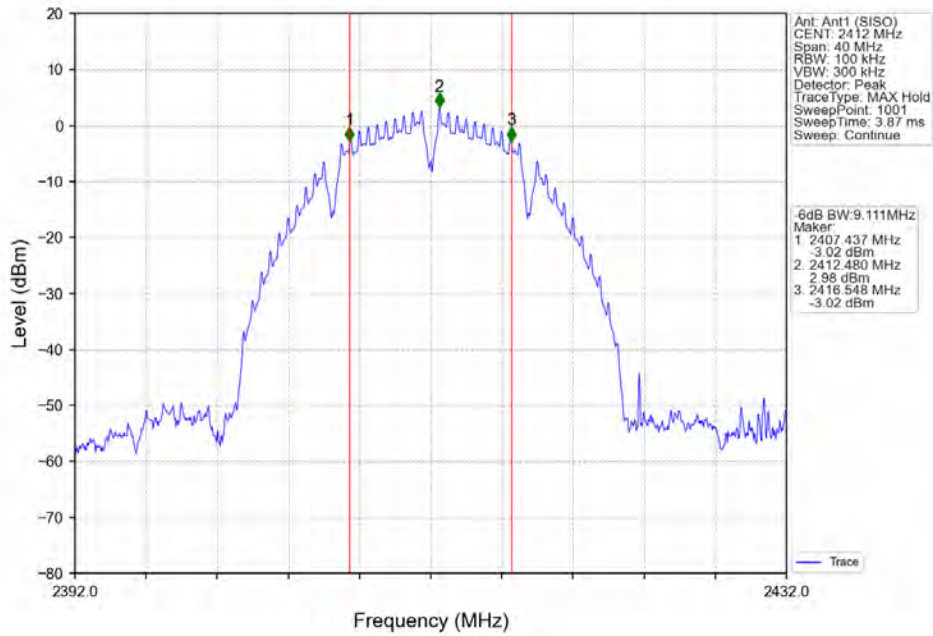


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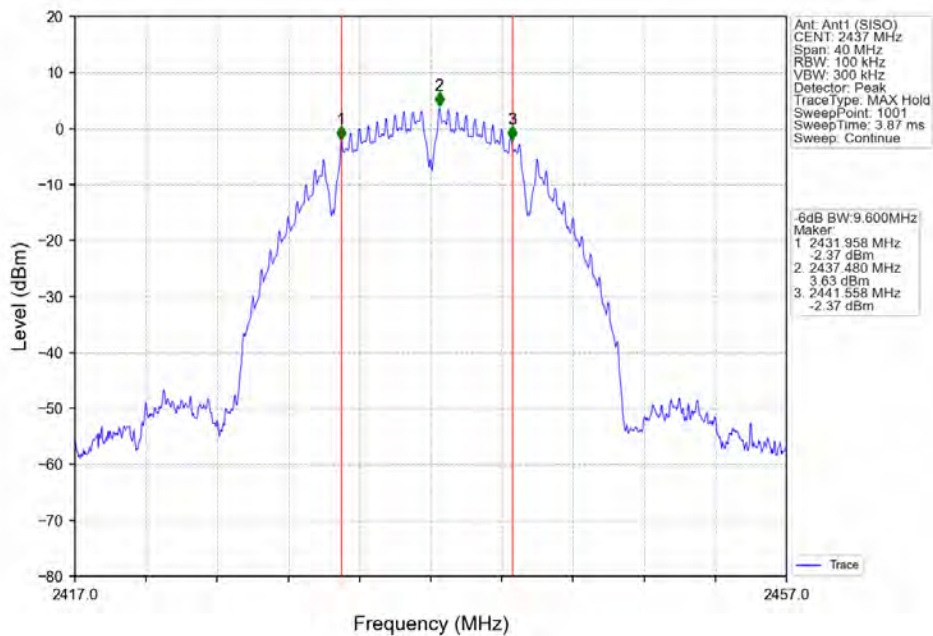


2.2.2 6dB BW

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



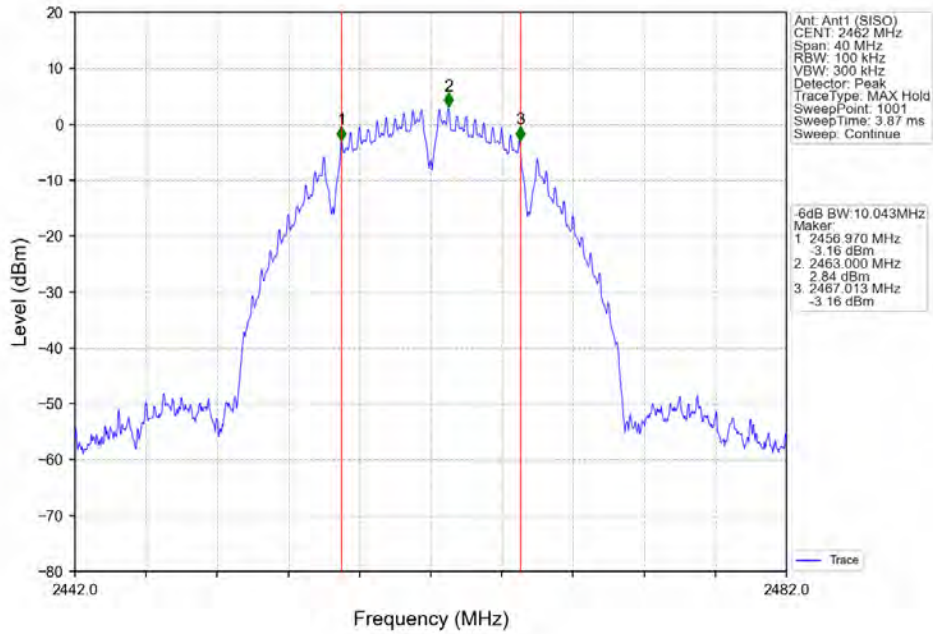
Compliance Certification Services (Kunshan) Inc.

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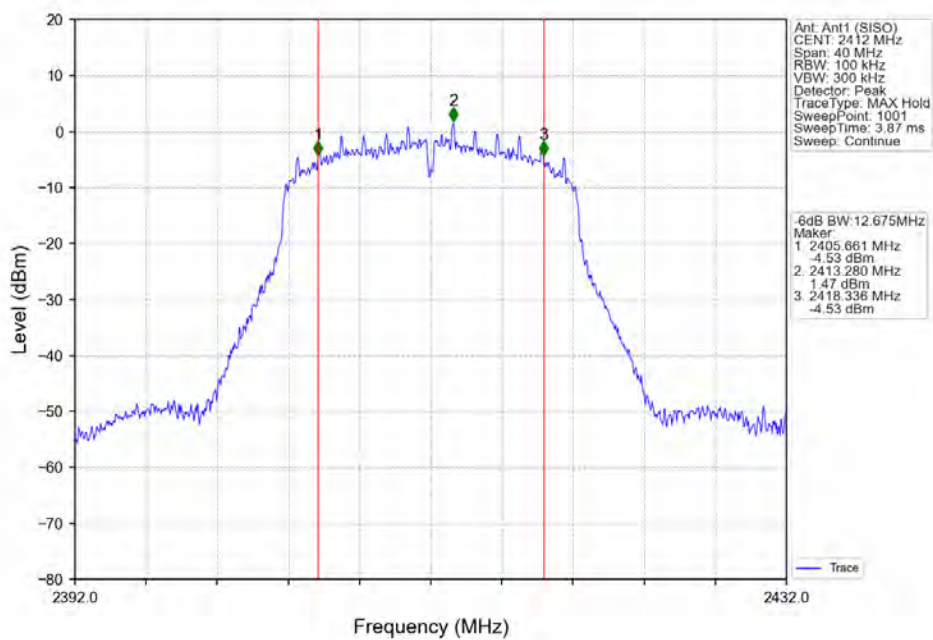
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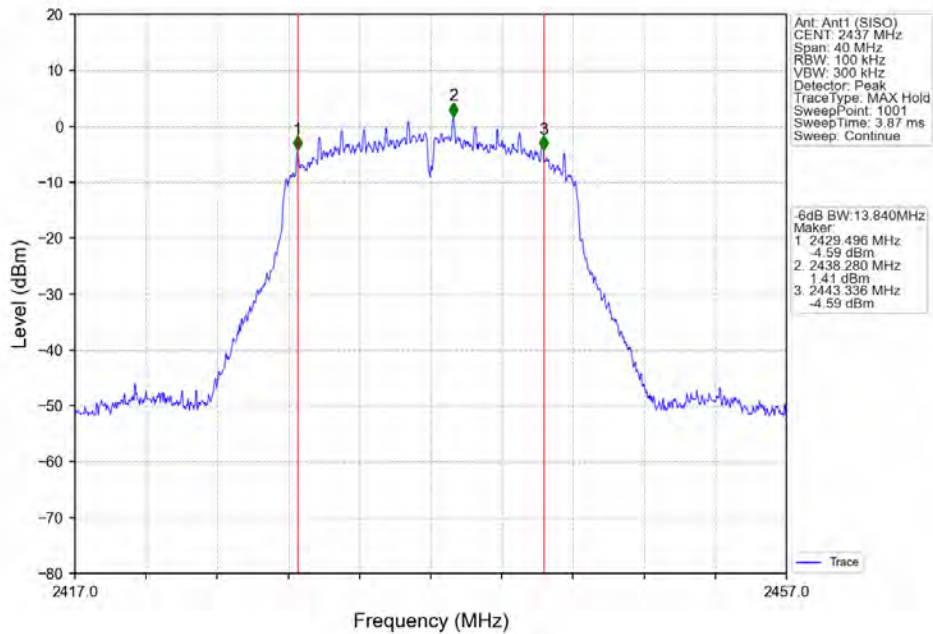
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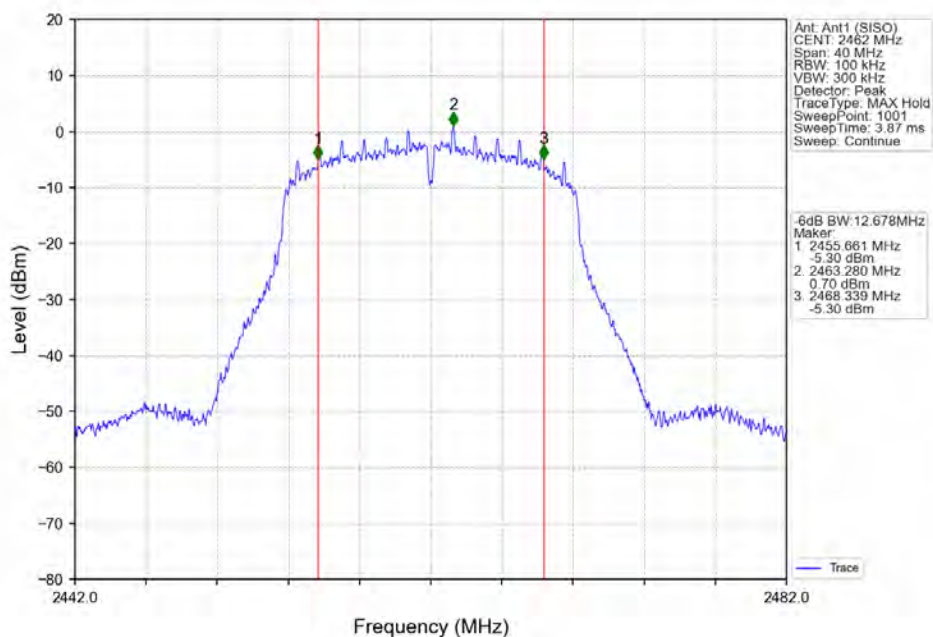
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



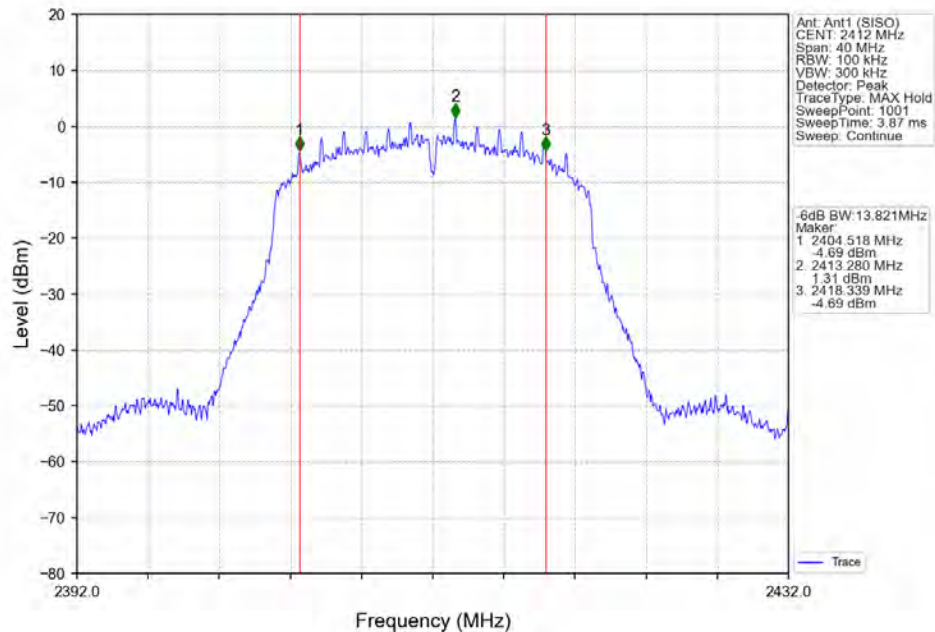
Compliance Certification Services (Kunshan) Inc.

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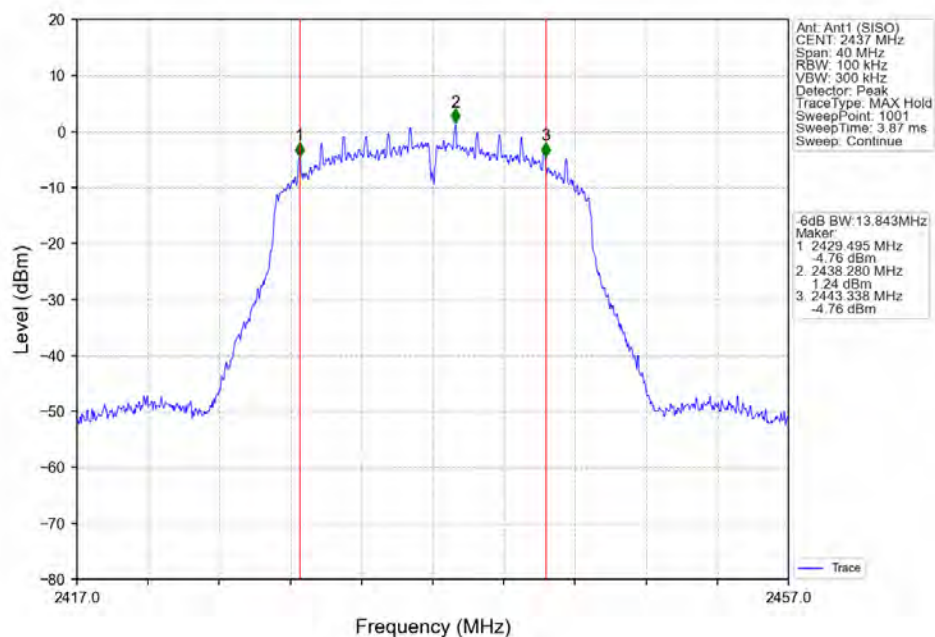
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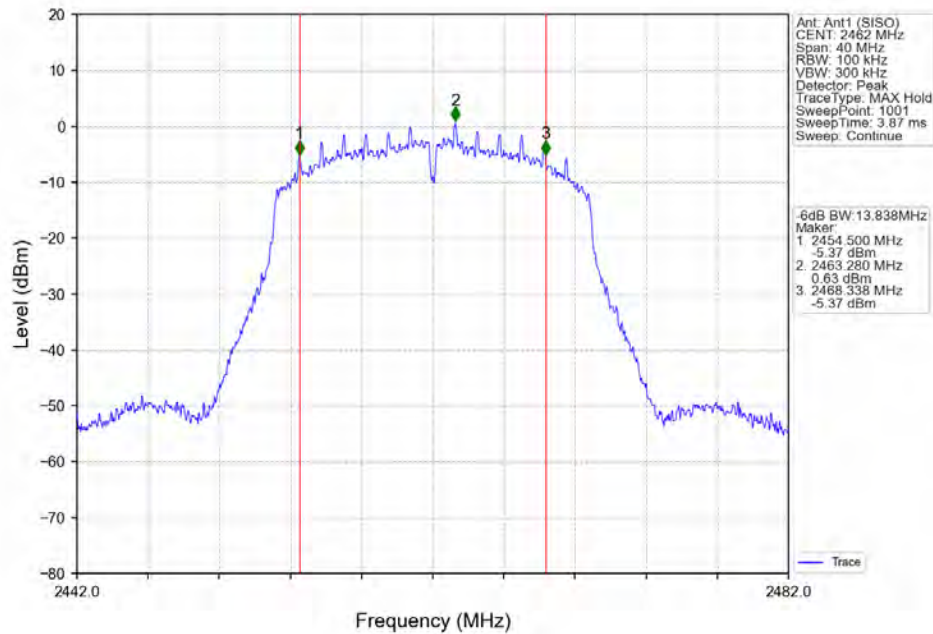
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



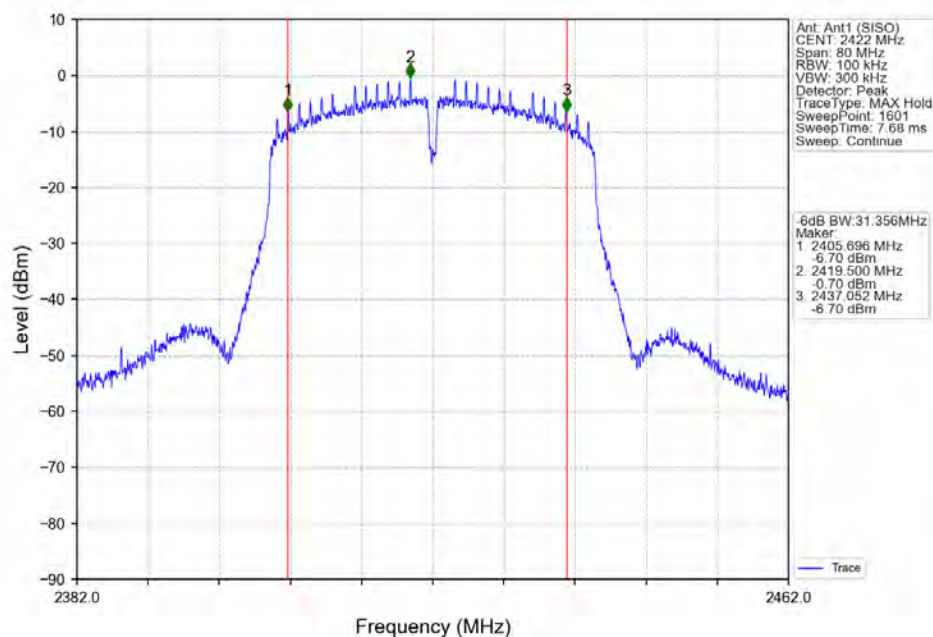
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



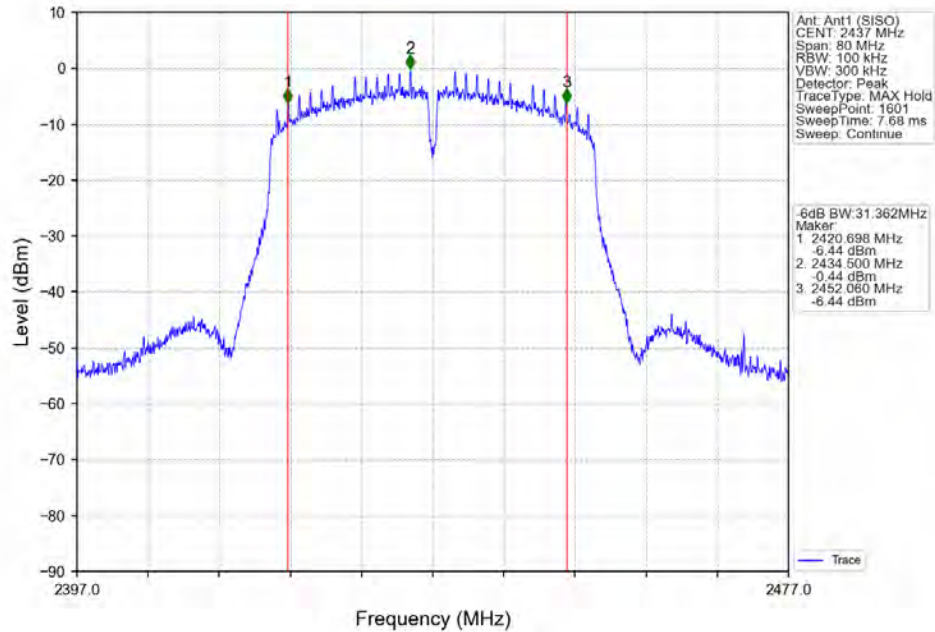
Compliance Certification Services (Kunshan) Inc.

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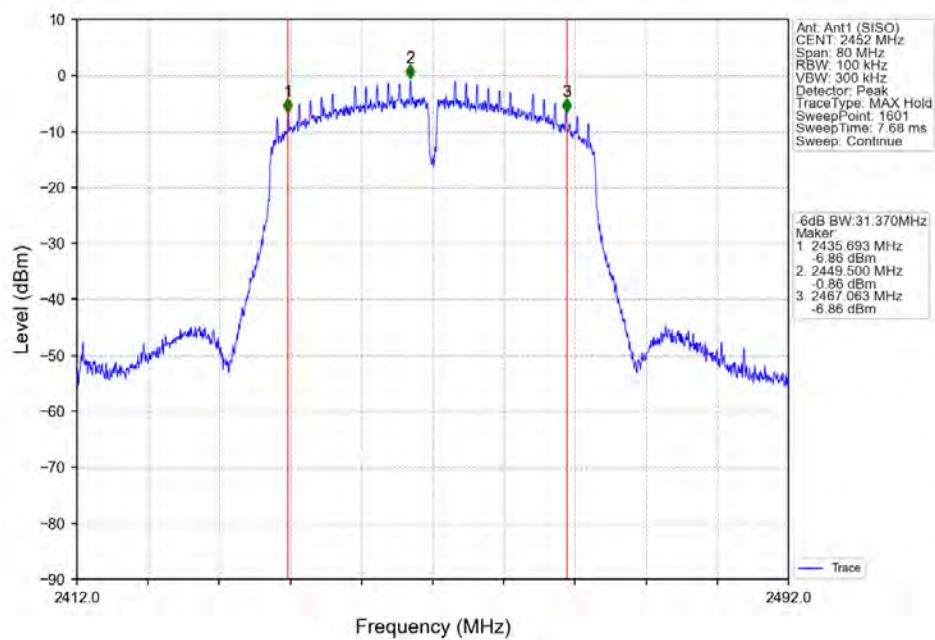
Report No.: KSCR240700134201

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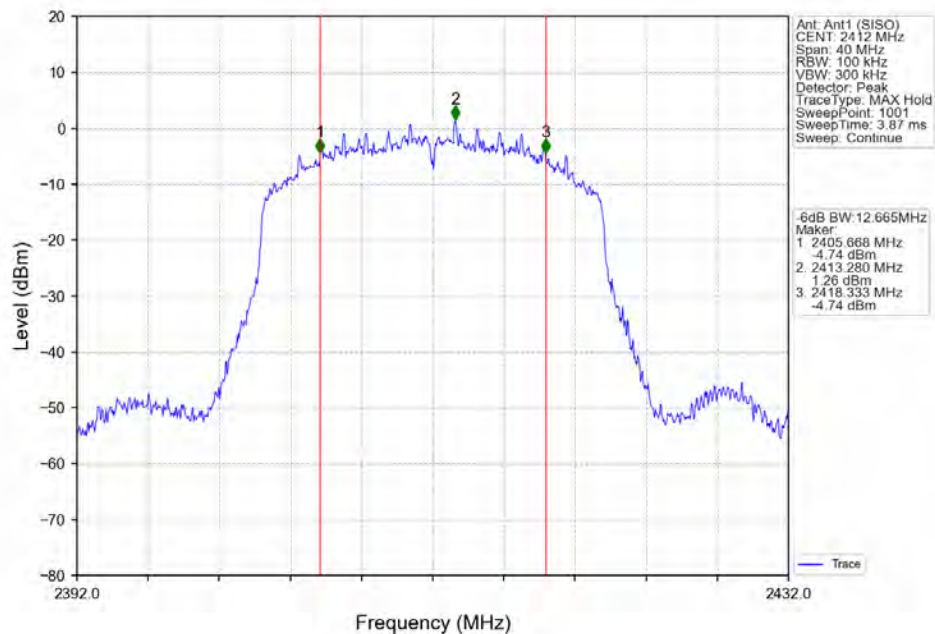
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



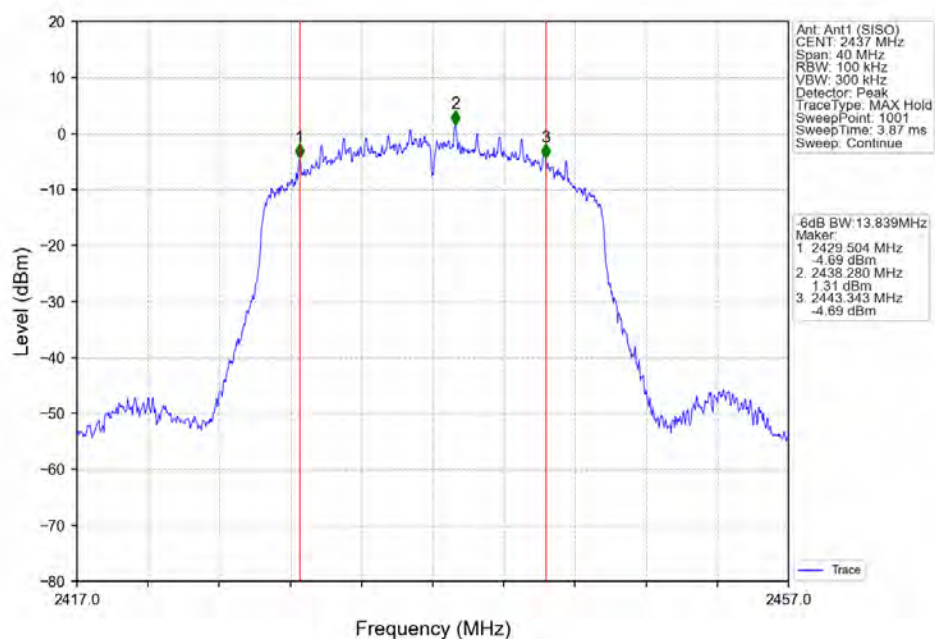
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



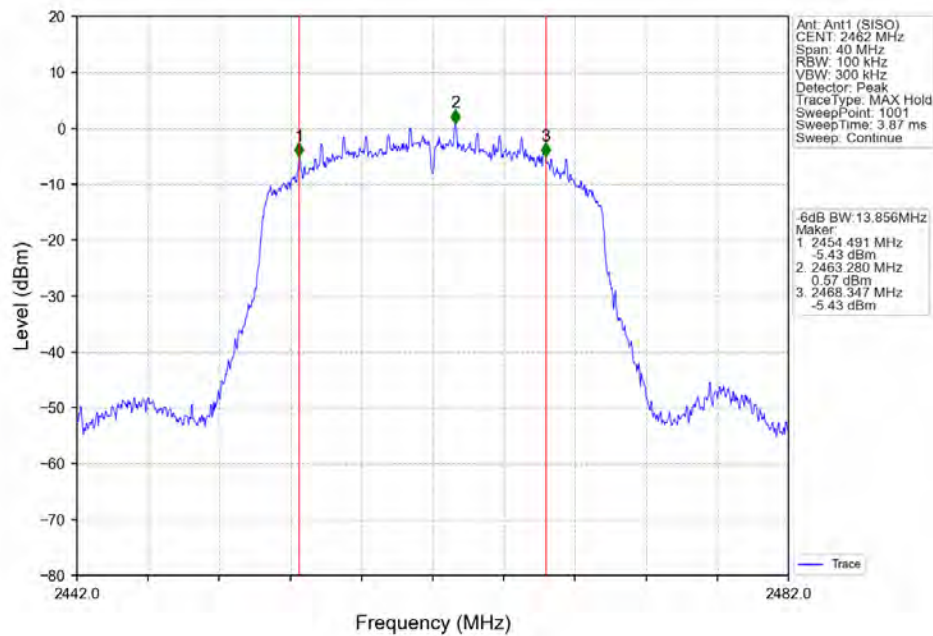
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



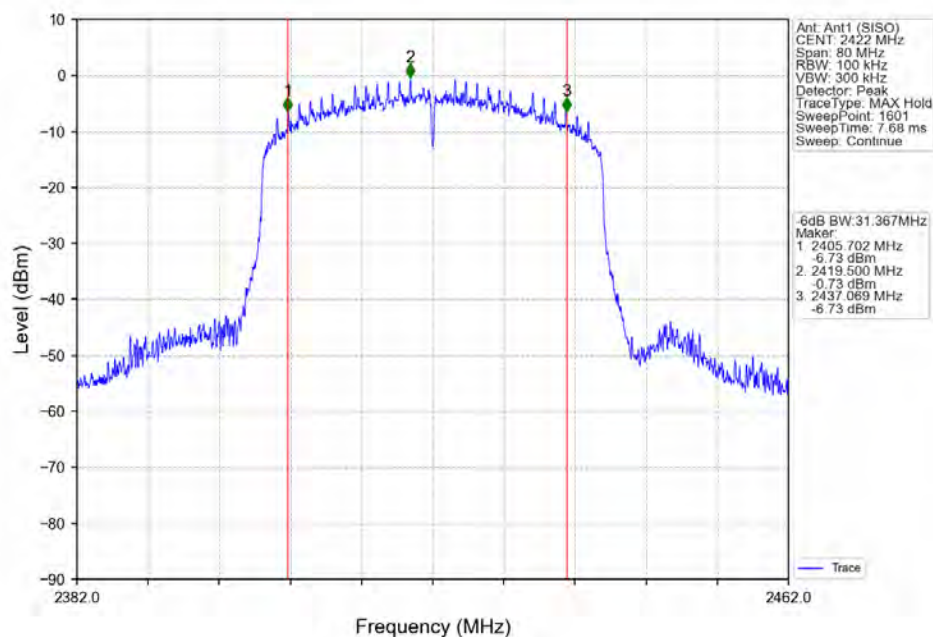
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



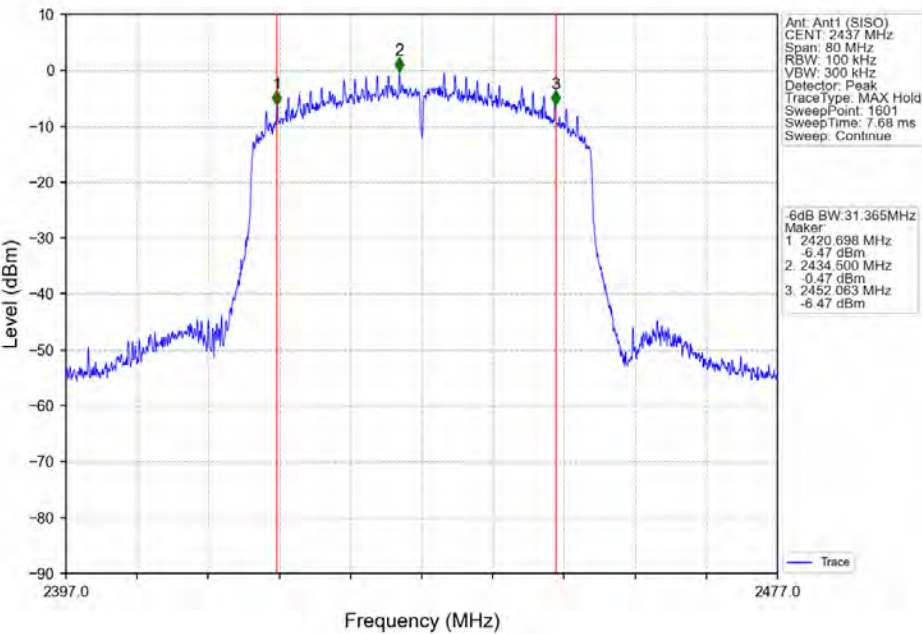
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



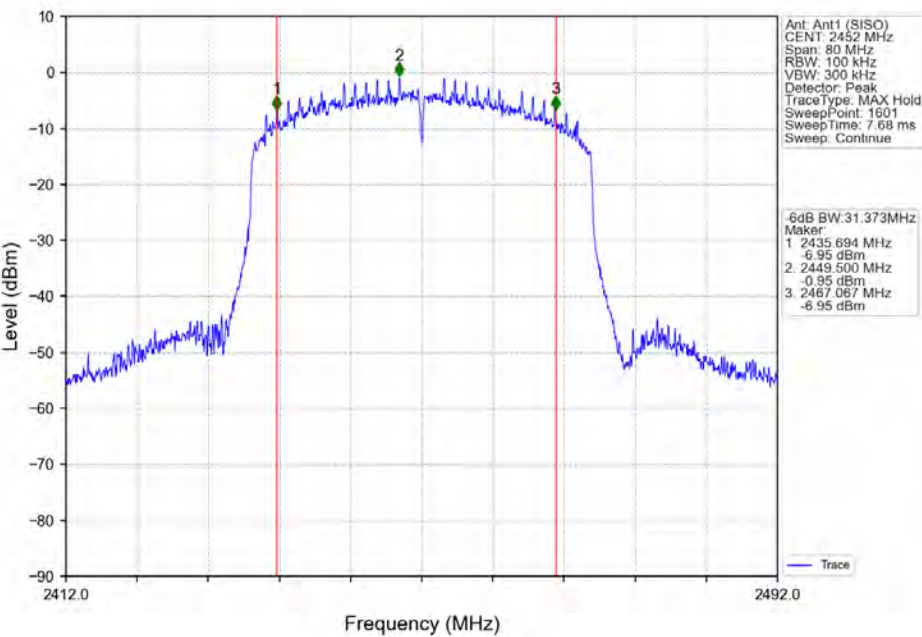
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



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3. Maximum Conducted Output Power

3.1 Test Result

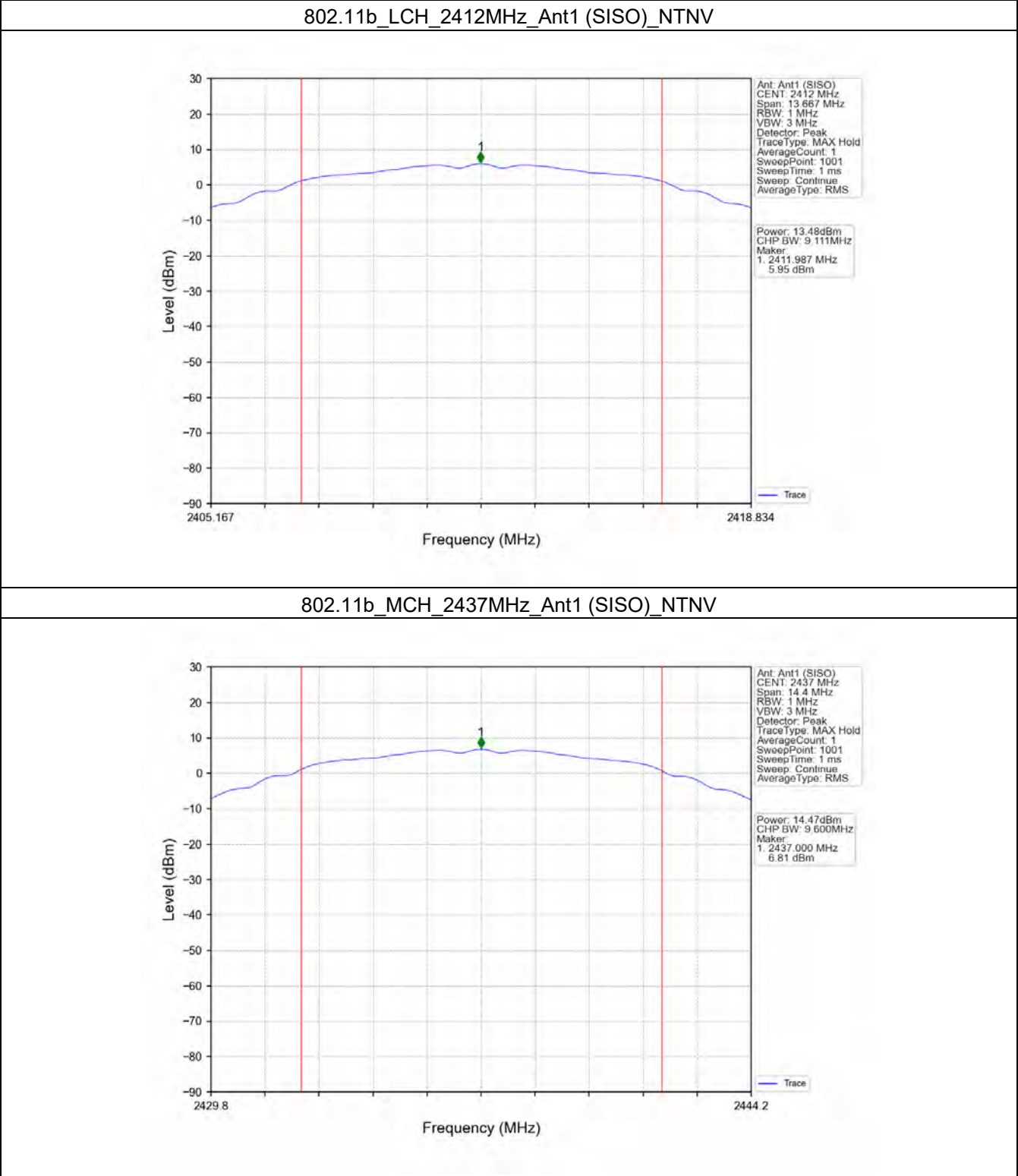
3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	13.48	<=30	Pass
		2437	/	/	14.47	<=30	Pass
		2462	/	/	13.90	<=30	Pass
802.11g	SISO	2412	/	/	18.28	<=30	Pass
		2437	/	/	18.53	<=30	Pass
		2462	/	/	17.65	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	18.03	<=30	Pass
		2437	/	/	18.13	<=30	Pass
		2462	/	/	17.45	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	19.68	<=30	Pass
		2437	/	/	19.95	<=30	Pass
		2452	/	/	19.53	<=30	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	18.72	<=30	Pass
		2437	RU242	Left	19.10	<=30	Pass
		2462	RU242	Left	18.42	<=30	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	20.82	<=30	Pass
		2437	RU484	Left	21.12	<=30	Pass
		2452	RU484	Left	20.85	<=30	Pass

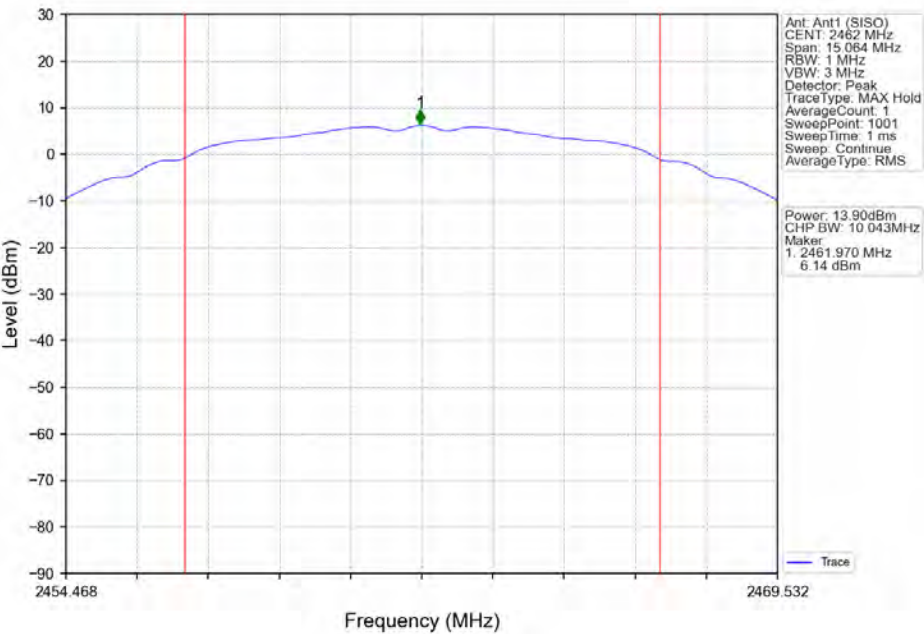
Note1: Antenna Gain: Ant1: 3.94dBi;

3.2 Test Graph

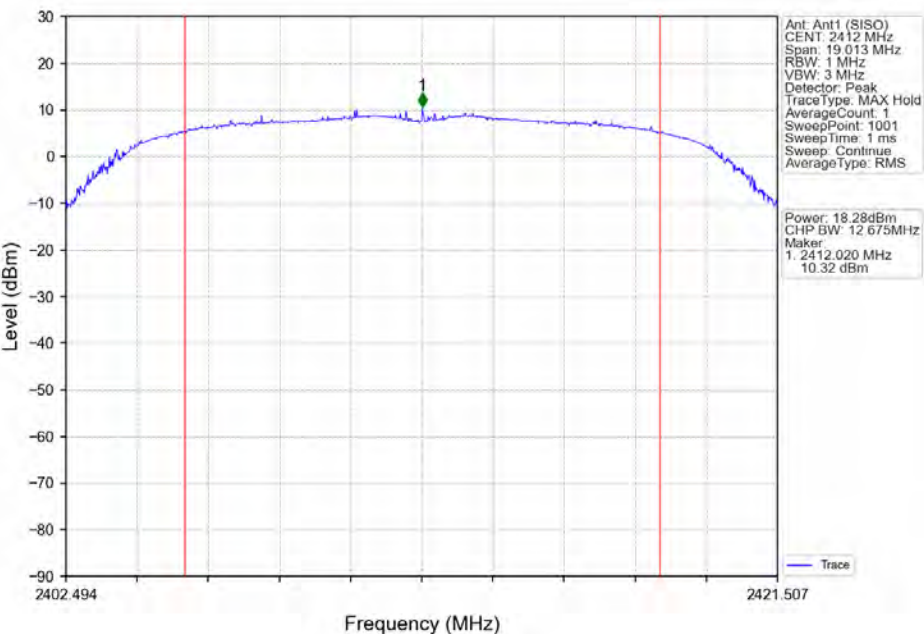
3.2.1 Power



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



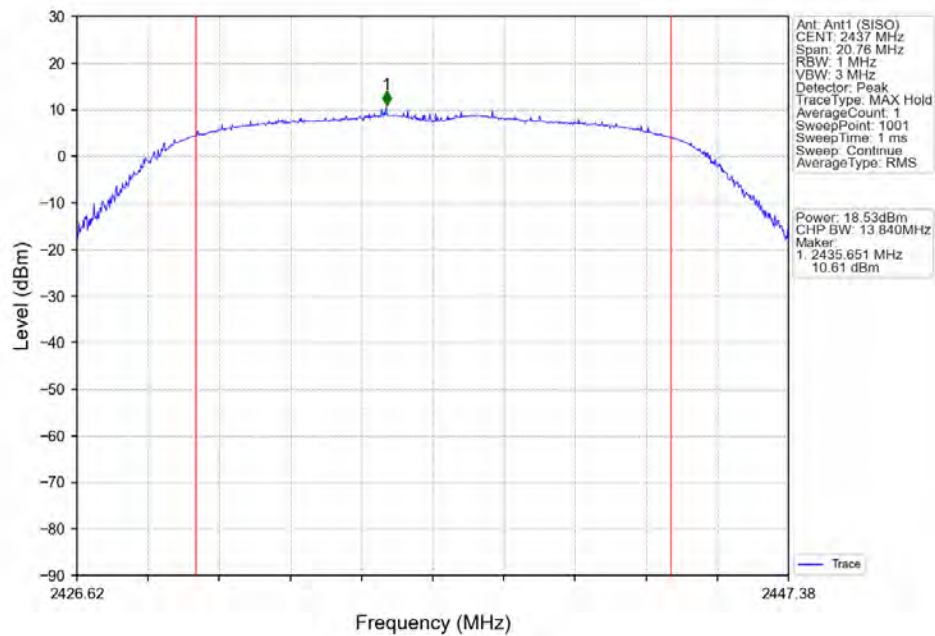
Compliance Certification Services (Kunshan) Inc.

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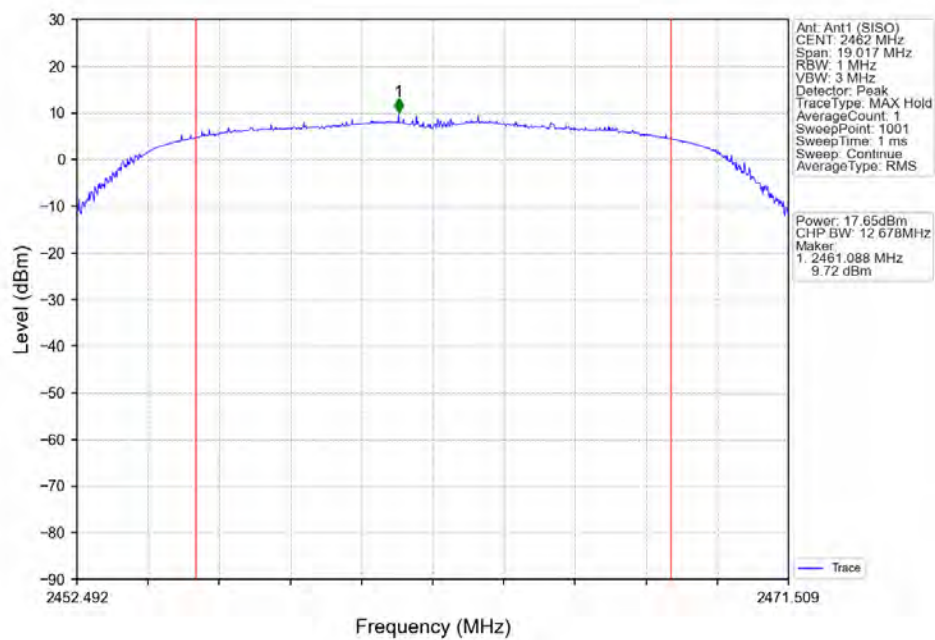
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



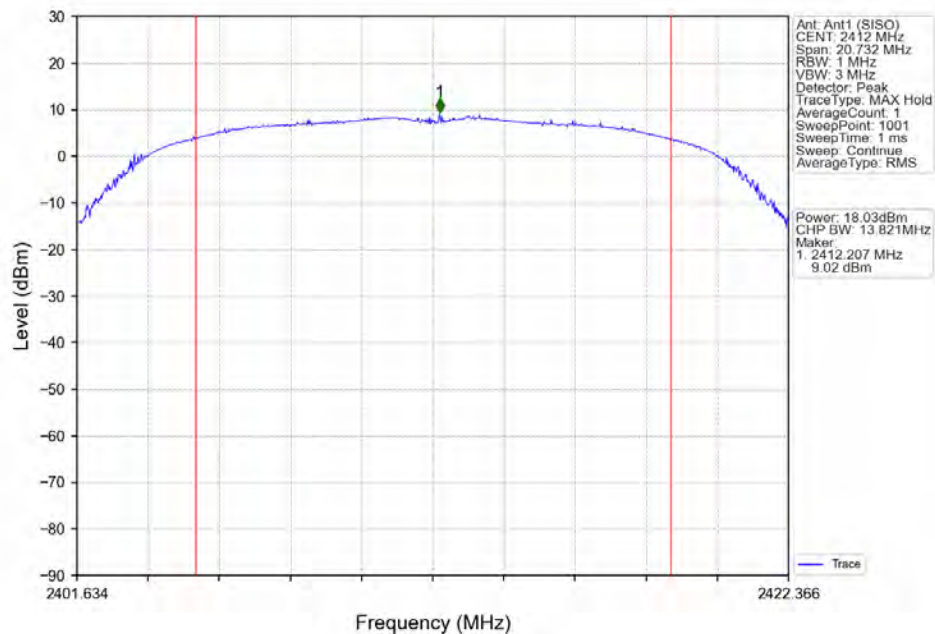
Compliance Certification Services (Kunshan) Inc.

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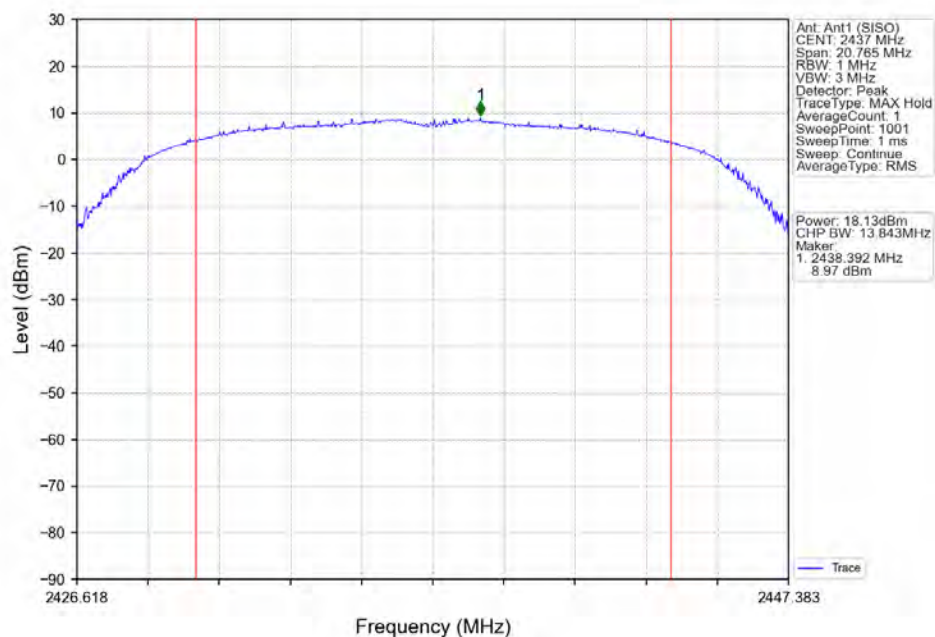
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



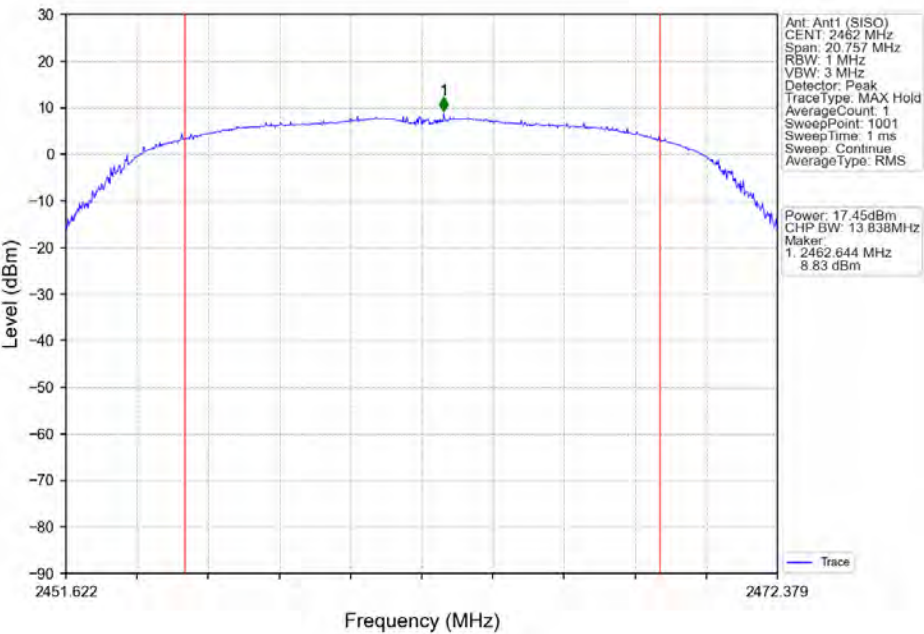
Compliance Certification Services (Kunshan) Inc.

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

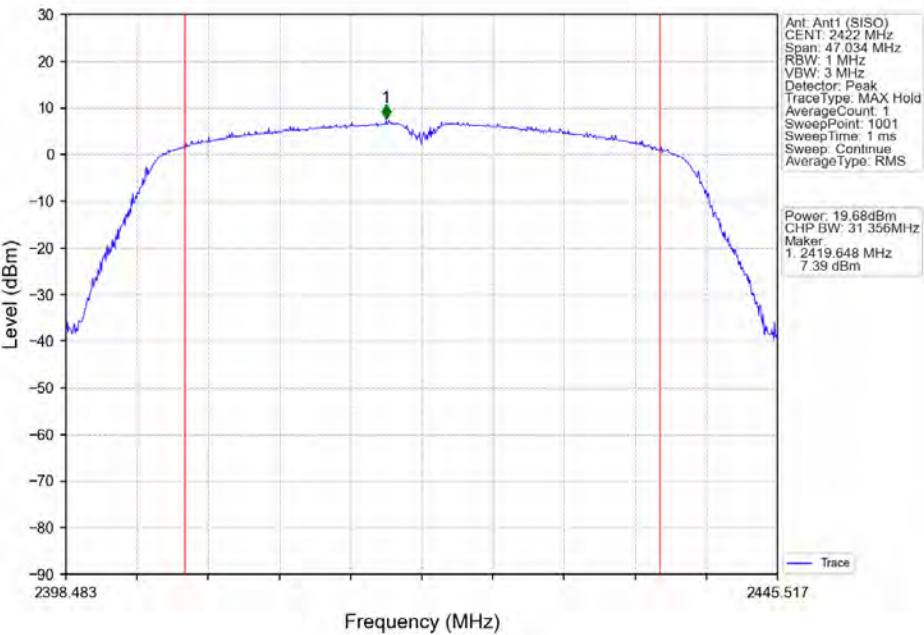
Report No.: KSCR240700134201

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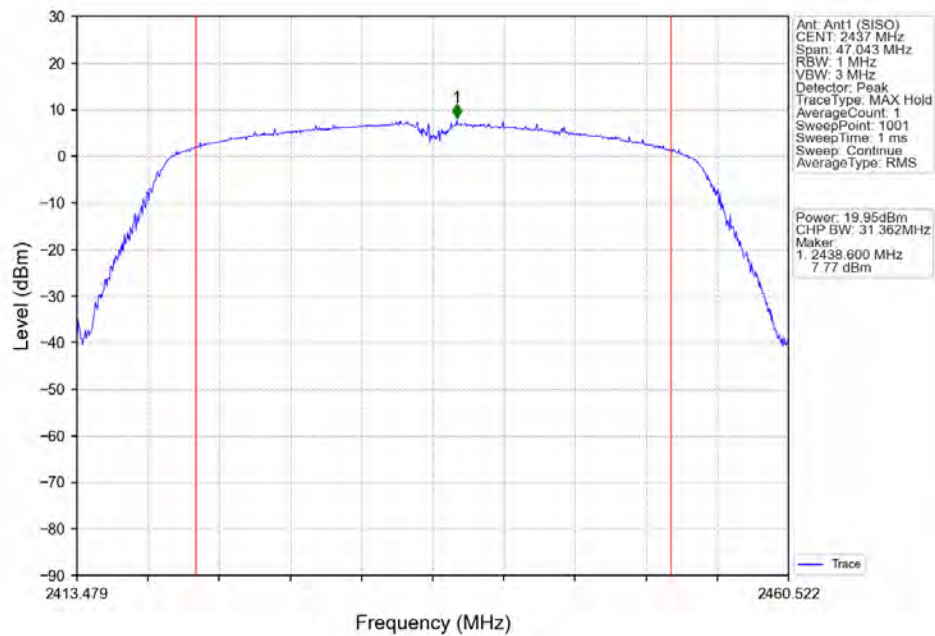
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



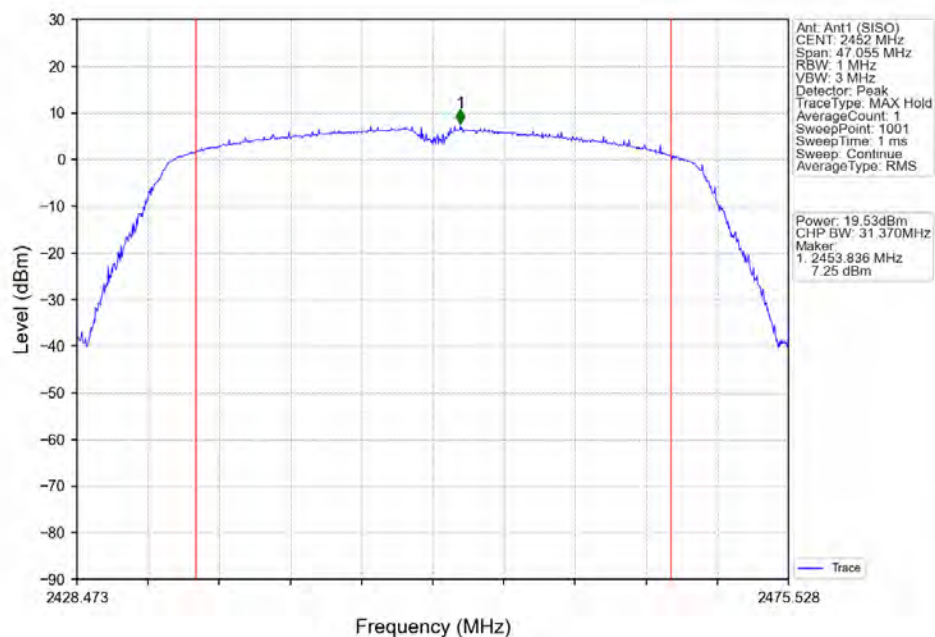
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



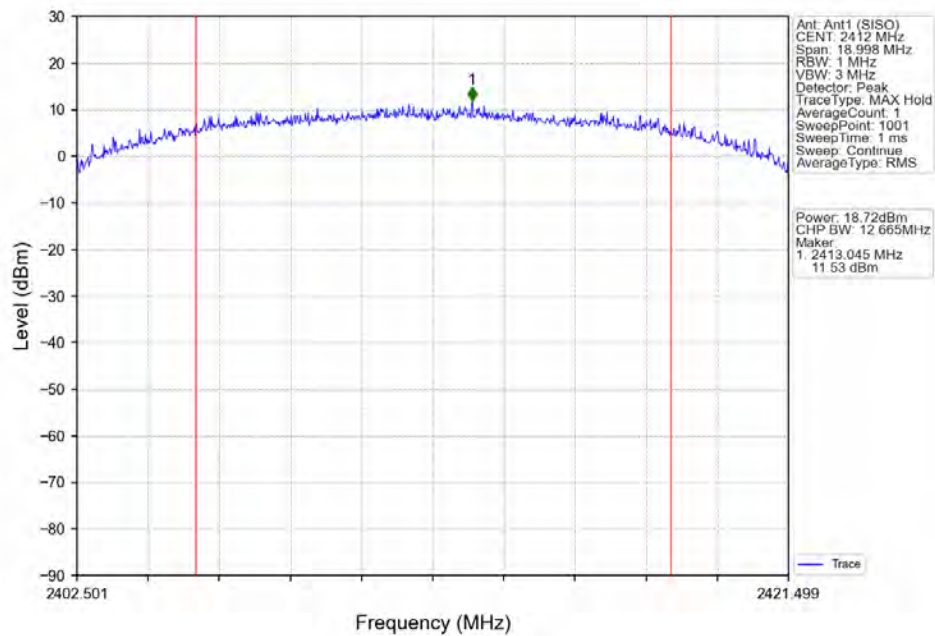
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



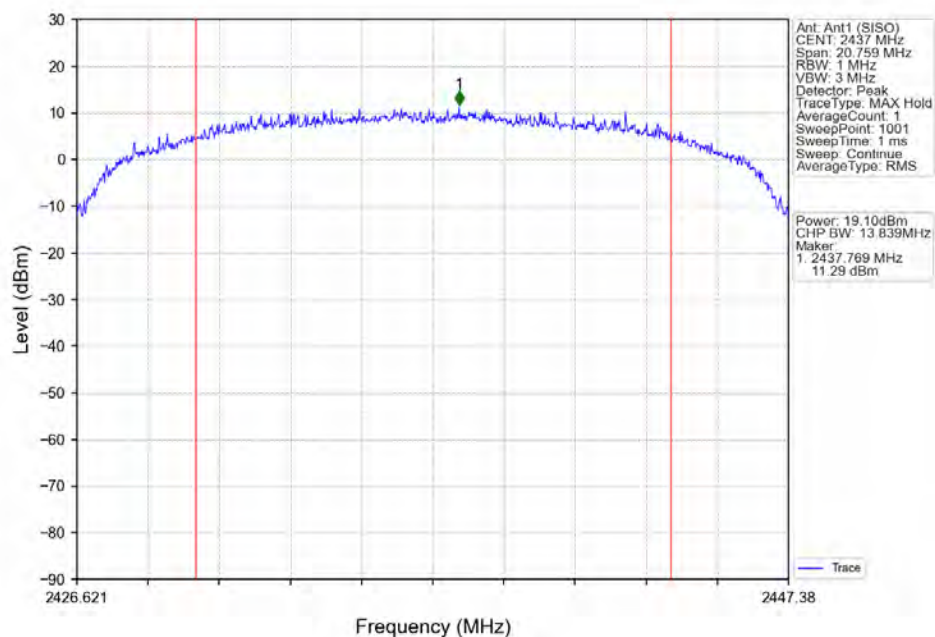
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



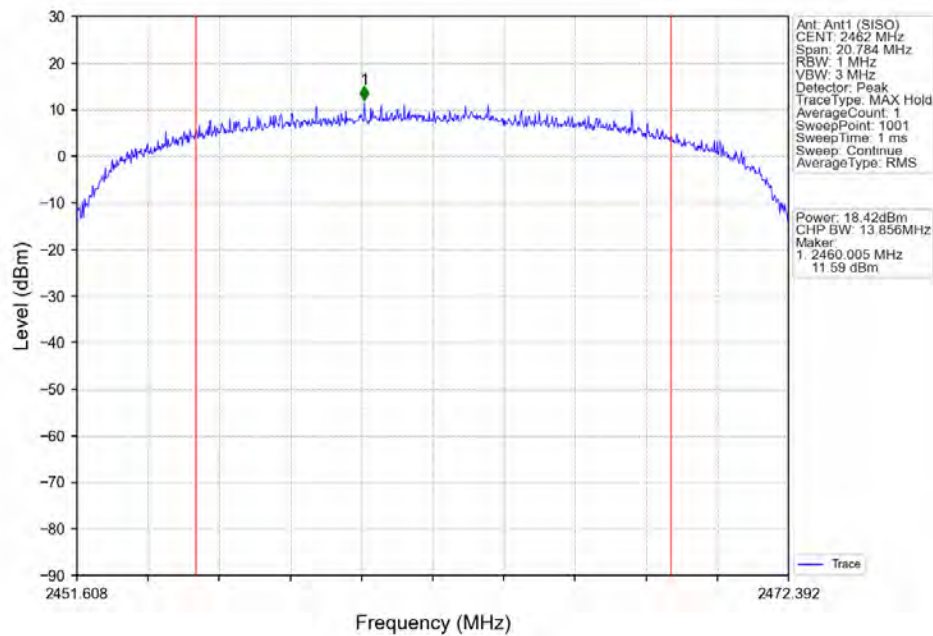
Compliance Certification Services (Kunshan) Inc.

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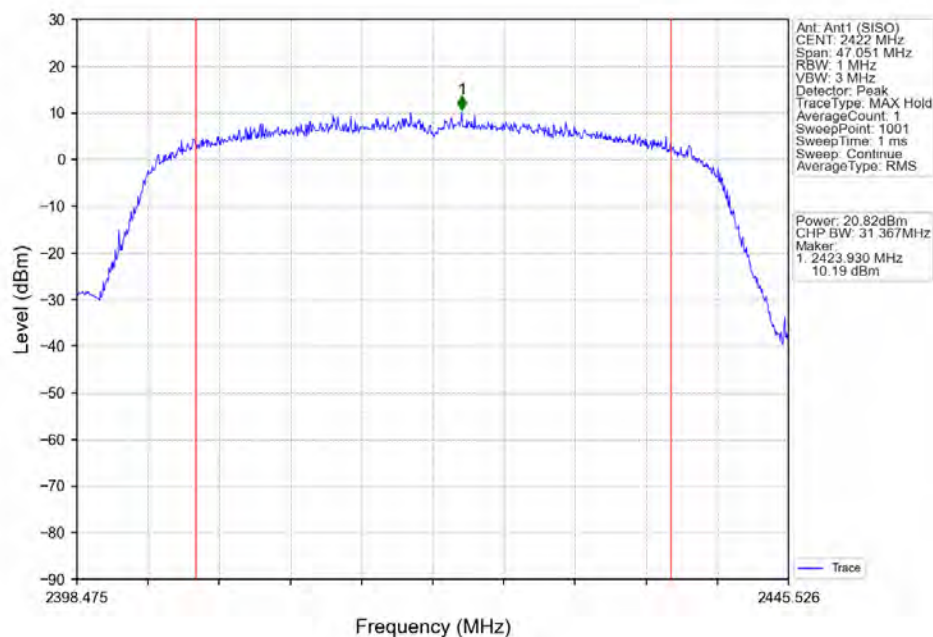
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802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



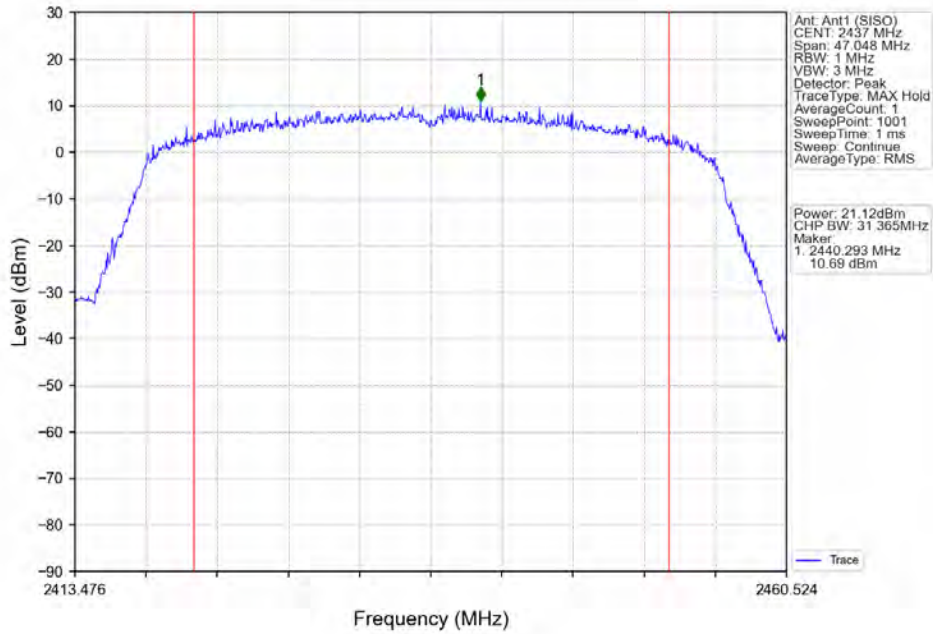
Compliance Certification Services (Kunshan) Inc.

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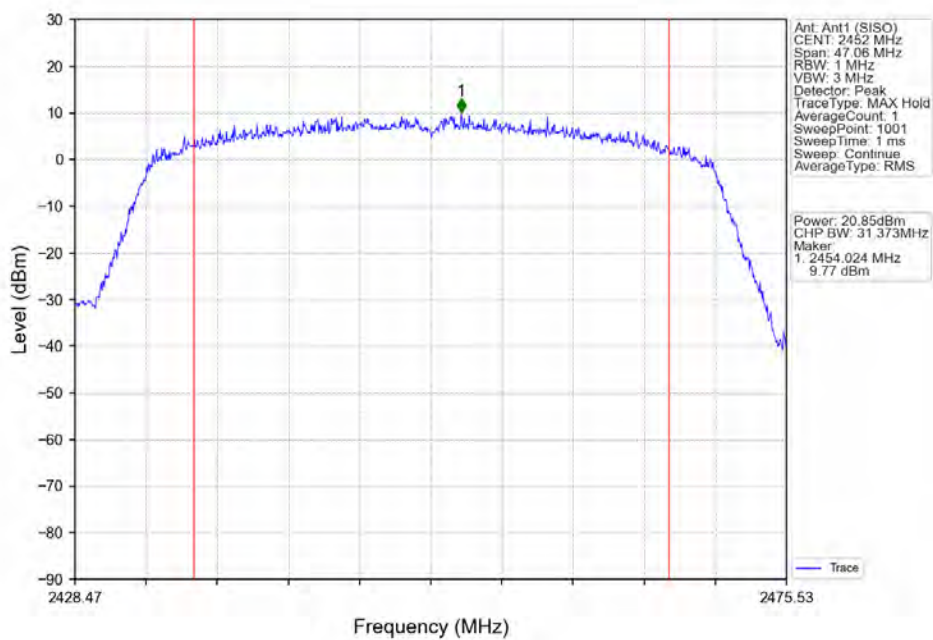
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802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



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4. Maximum Power Spectral Density

4.1 Test Result

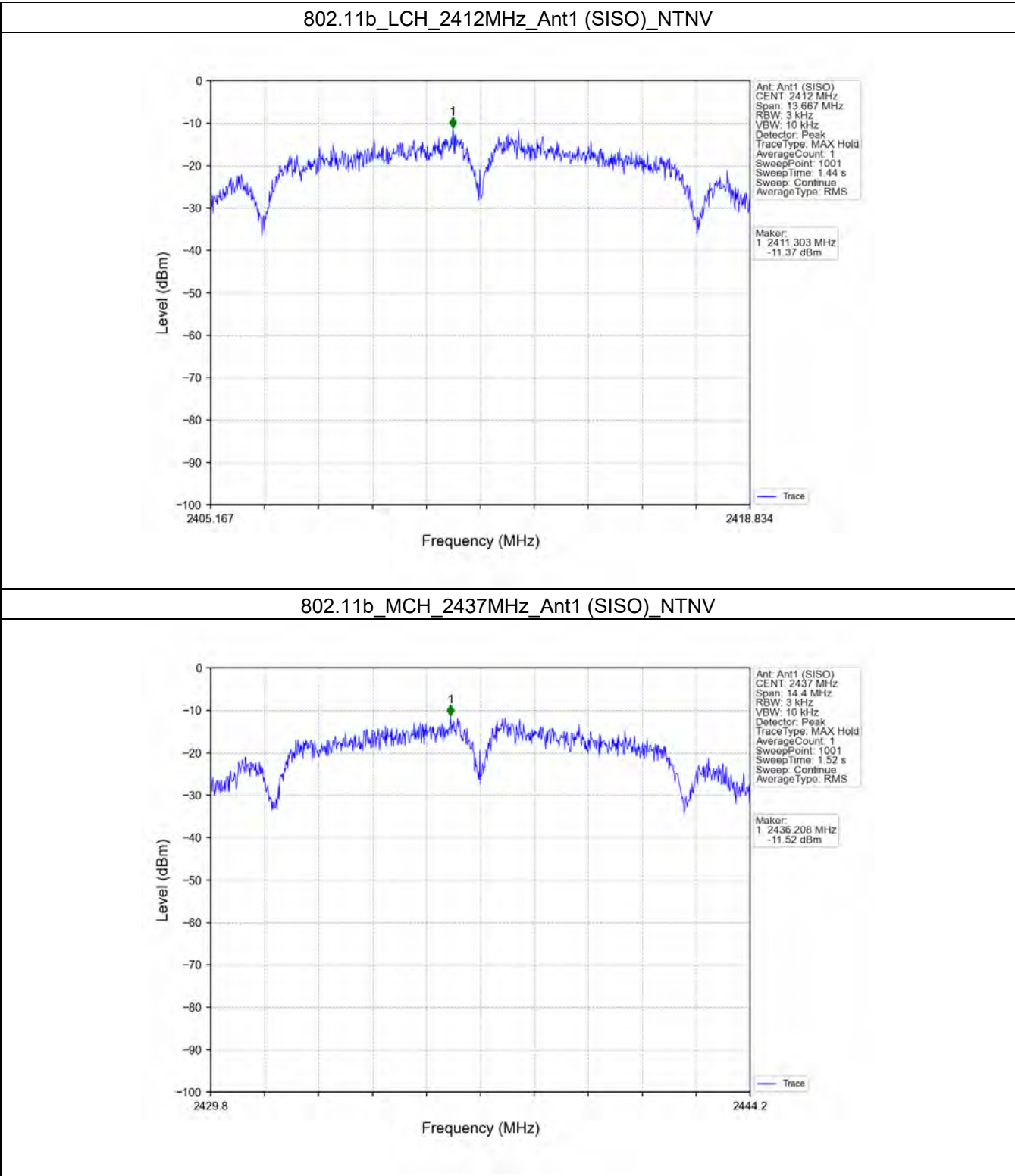
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	-11.37	<=8	Pass
		2437	/	/	-11.52	<=8	Pass
		2462	/	/	-11.71	<=8	Pass
802.11g	SISO	2412	/	/	-13.76	<=8	Pass
		2437	/	/	-13.07	<=8	Pass
		2462	/	/	-14.41	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-13.51	<=8	Pass
		2437	/	/	-13.14	<=8	Pass
		2462	/	/	-13.90	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-14.94	<=8	Pass
		2437	/	/	-15.41	<=8	Pass
		2452	/	/	-15.79	<=8	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	-13.05	<=8	Pass
		2437	RU242	Left	-15.12	<=8	Pass
		2462	RU242	Left	-14.28	<=8	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	-16.74	<=8	Pass
		2437	RU484	Left	-16.47	<=8	Pass
		2452	RU484	Left	-16.48	<=8	Pass

Note1: Antenna Gain: Ant1: 3.94dBi;

4.2 Test Graph

4.2.1 PSD



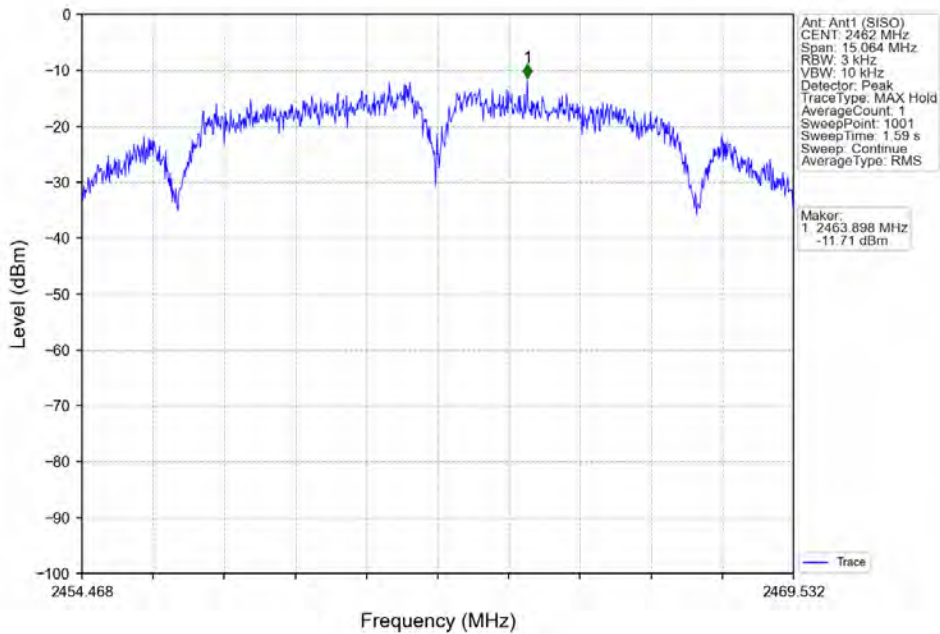
Compliance Certification Services (Kunshan) Inc.

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

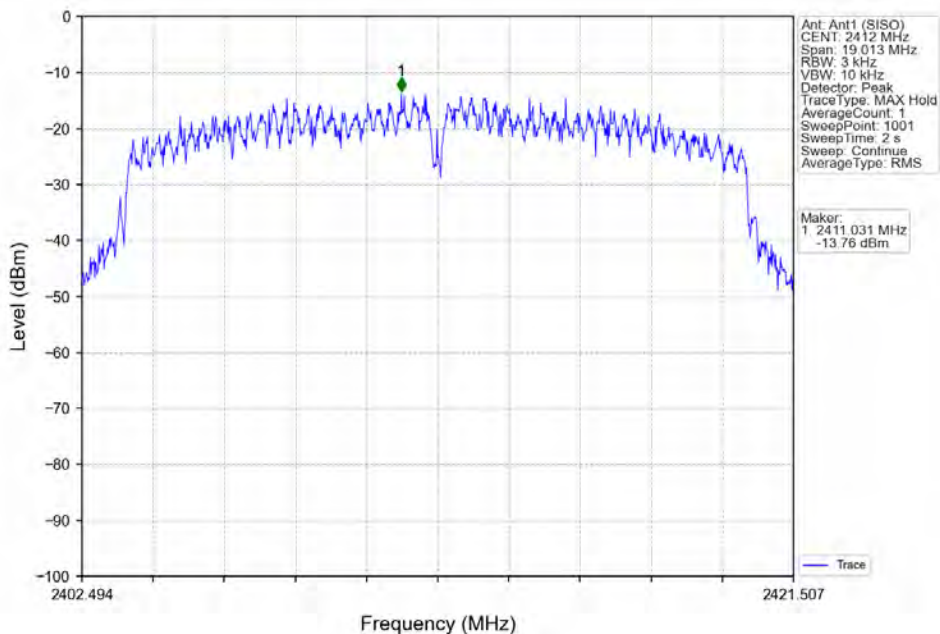
Report No.: KSCR240700134201

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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



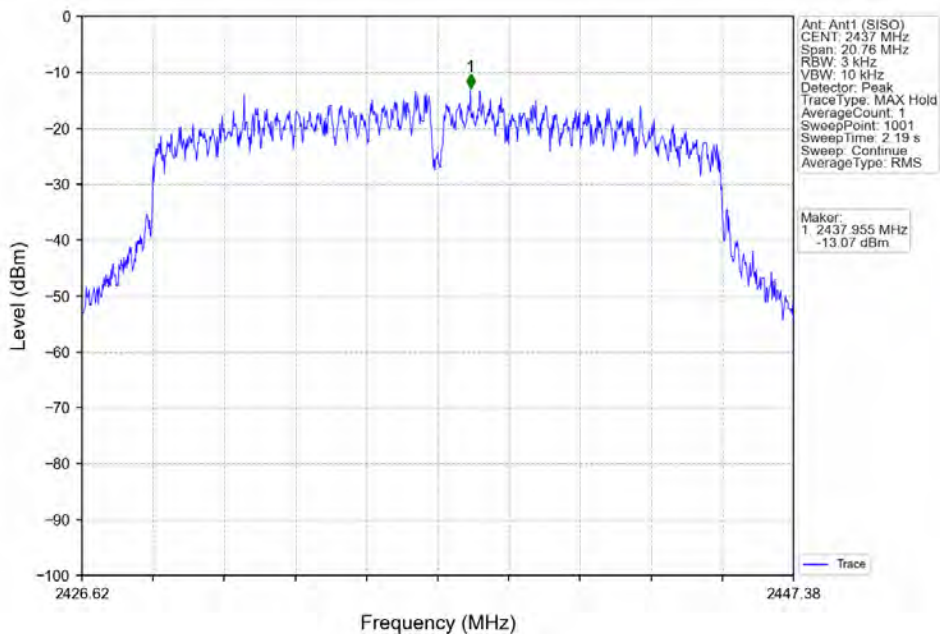
Compliance Certification Services (Kunshan) Inc.

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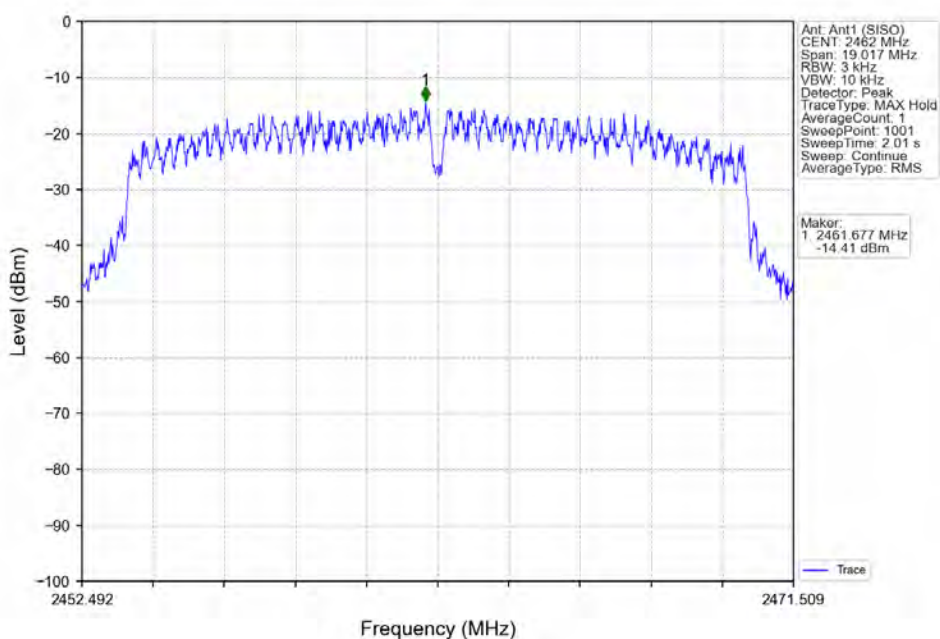
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



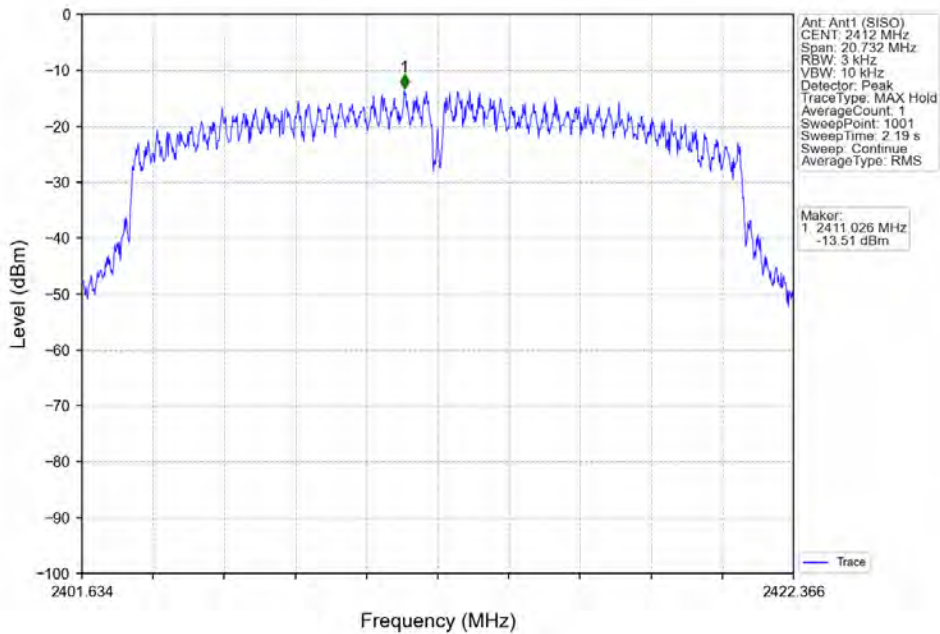
Compliance Certification Services (Kunshan) Inc.

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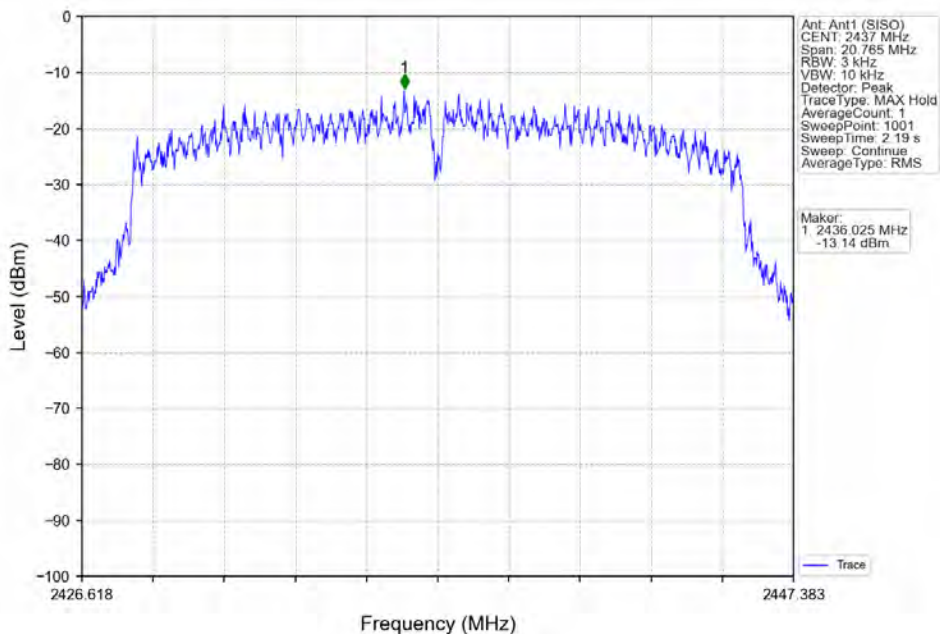
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



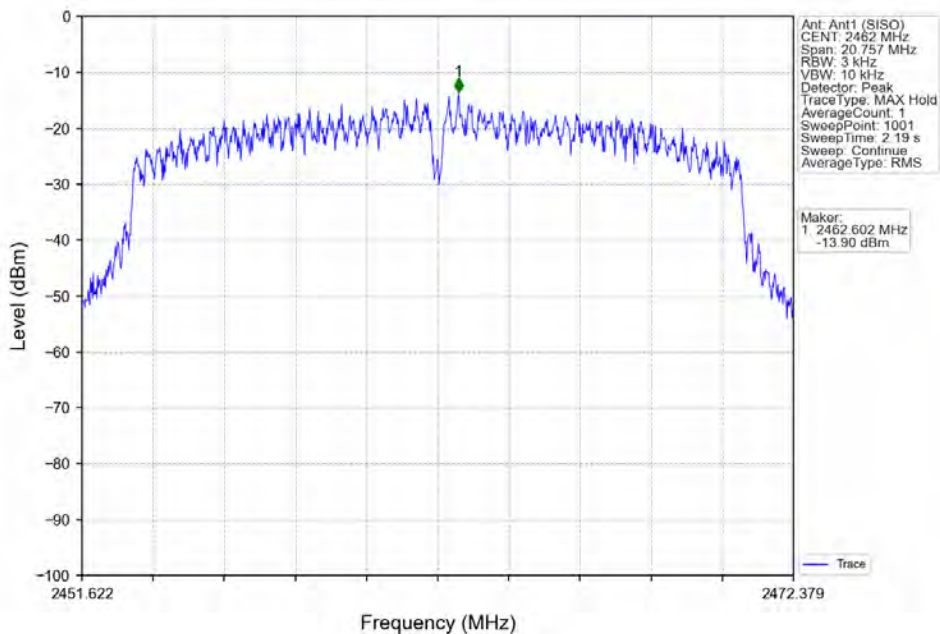
Compliance Certification Services (Kunshan) Inc.

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

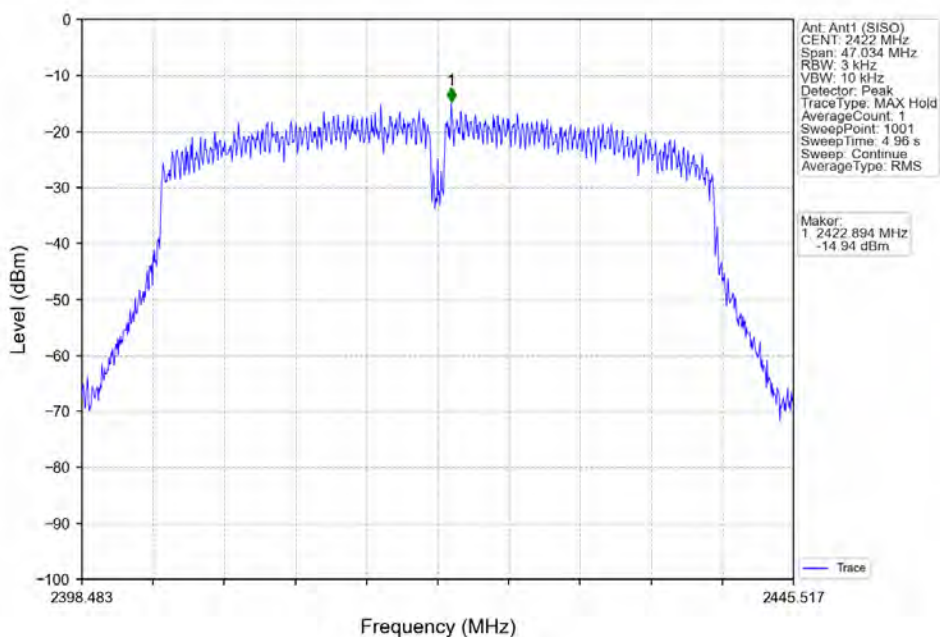
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



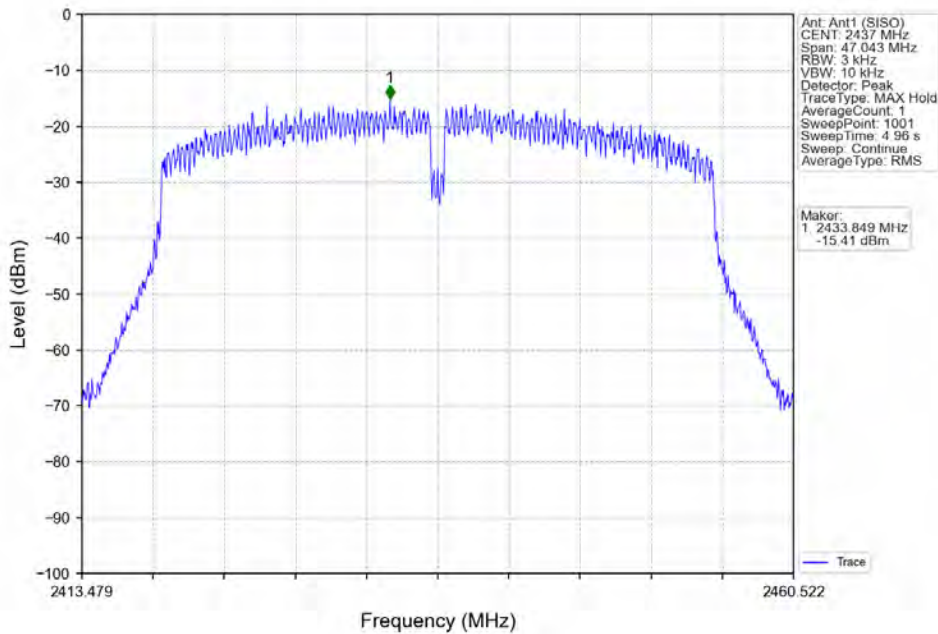
Compliance Certification Services (Kunshan) Inc.

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

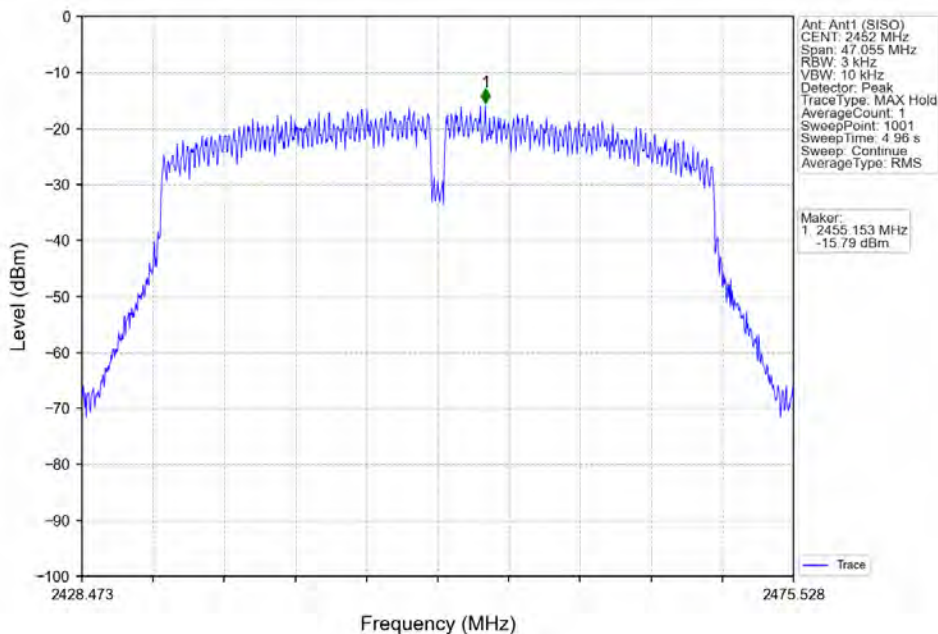
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



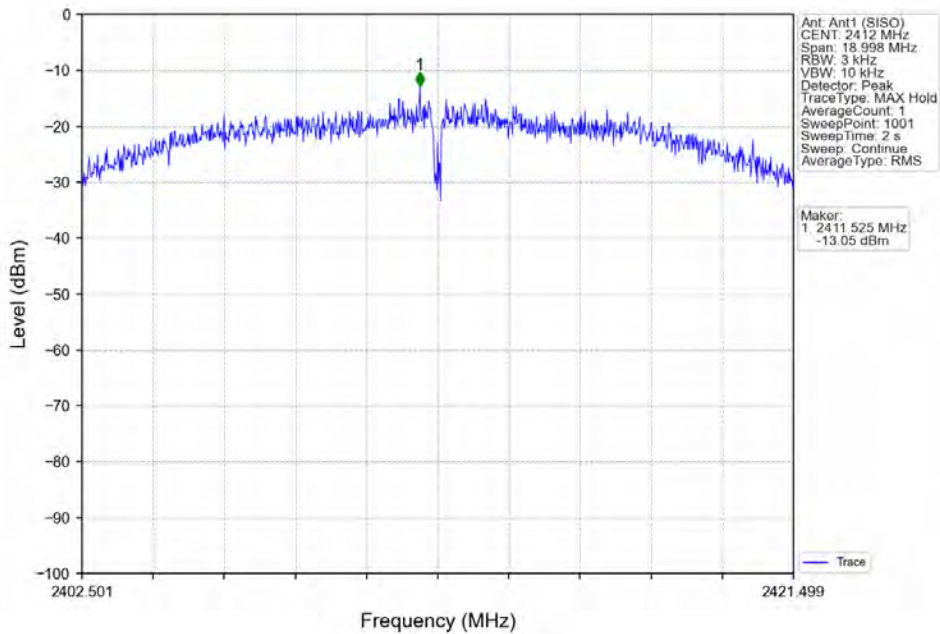
Compliance Certification Services (Kunshan) Inc.

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

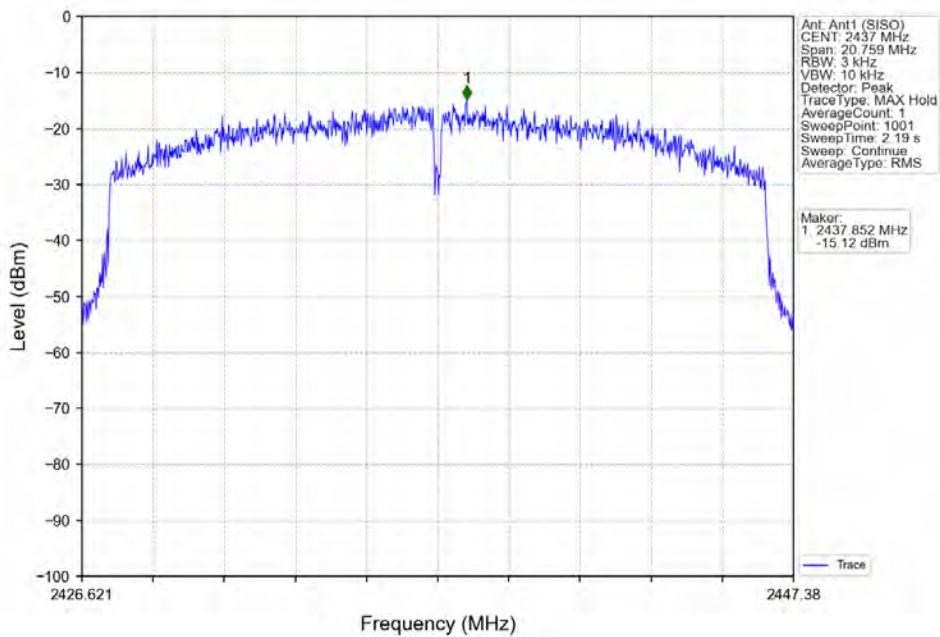
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802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



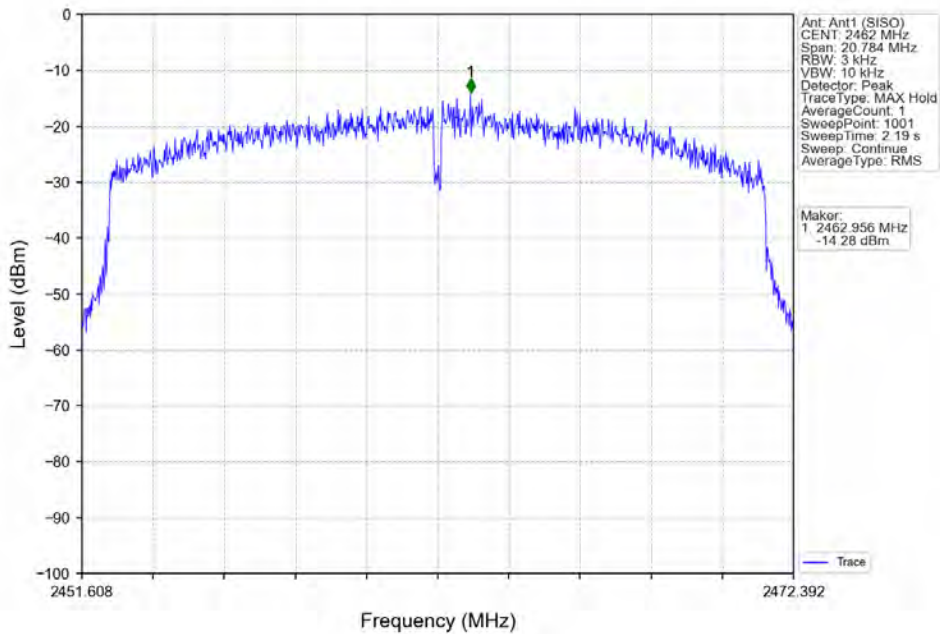
Compliance Certification Services (Kunshan) Inc.

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

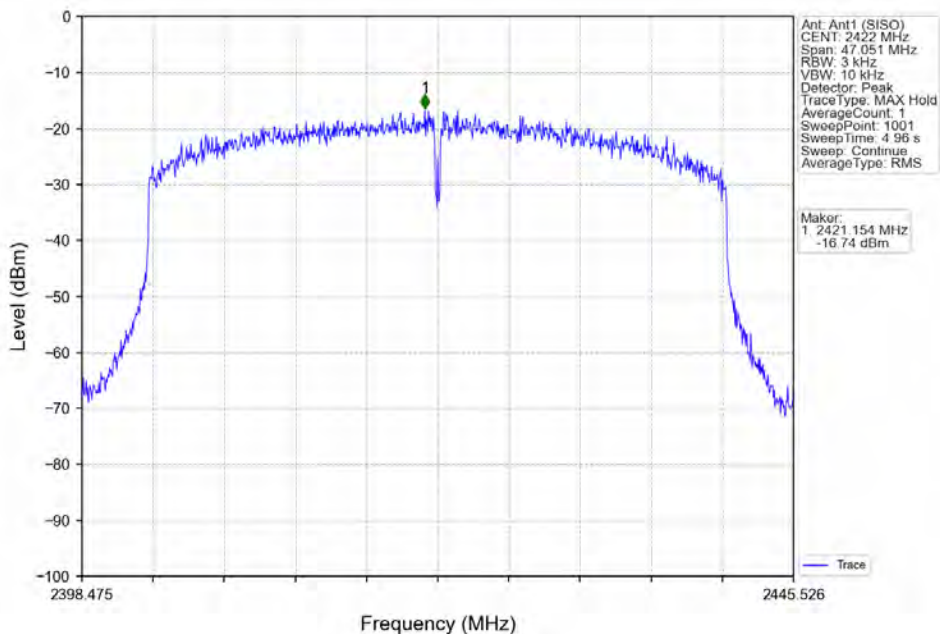
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802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



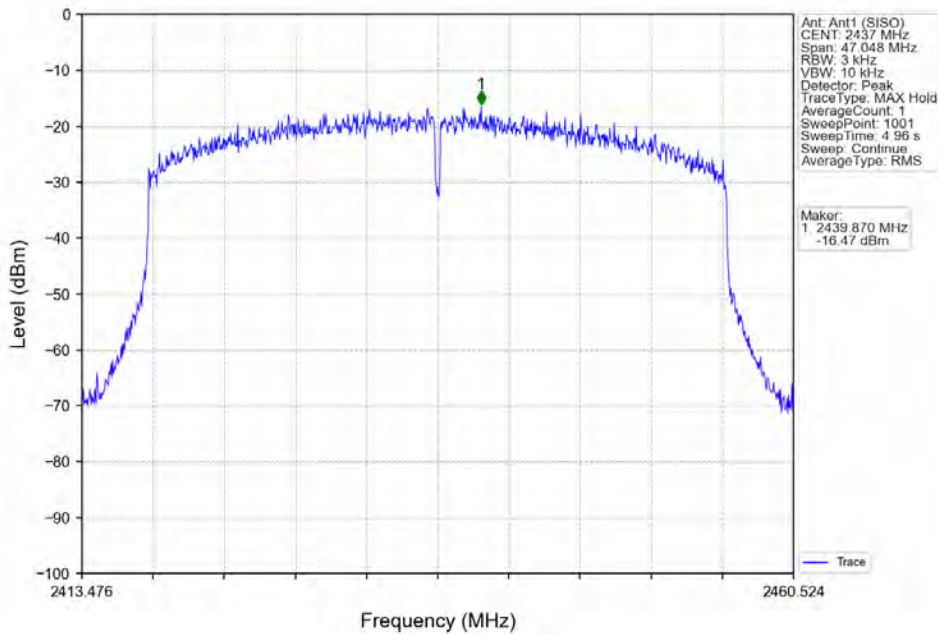
Compliance Certification Services (Kunshan) Inc.

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

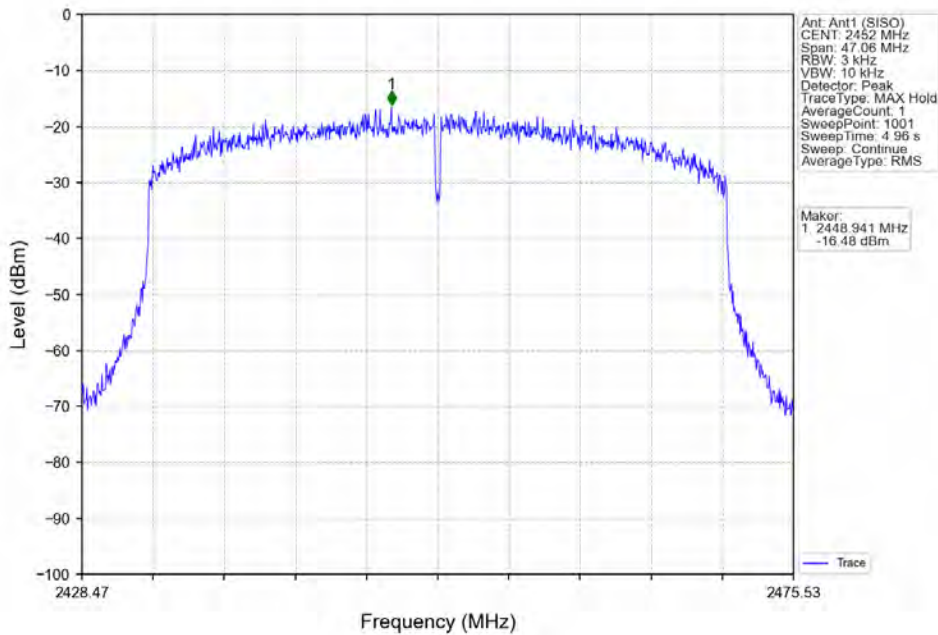
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802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11b	SISO	2412	/	/	1	2.56
		2437	/	/	1	3.26
		2462	/	/	1	2.95
802.11g	SISO	2412	/	/	1	1.41
		2437	/	/	1	1.33
		2462	/	/	1	0.60
802.11n (HT20)	SISO	2412	/	/	1	1.24
		2437	/	/	1	1.03
		2462	/	/	1	0.63
802.11n (HT40)	SISO	2422	/	/	1	-0.69
		2437	/	/	1	-0.59
		2452	/	/	1	-0.86
802.11ax (HEW20)	SISO	2412	RU242	Left	1	1.26
		2437	RU242	Left	1	1.36
		2462	RU242	Left	1	0.62
802.11ax (HEW40)	SISO	2422	RU484	Left	1	-0.78
		2437	RU484	Left	1	-0.48
		2452	RU484	Left	1	-0.94

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.

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	3.26	-16.74	Pass
		2437	/	/	1	3.26	-16.74	Pass
		2462	/	/	1	3.26	-16.74	Pass
802.11g	SISO	2412	/	/	1	1.41	-18.59	Pass
		2437	/	/	1	1.41	-18.59	Pass
		2462	/	/	1	1.41	-18.59	Pass



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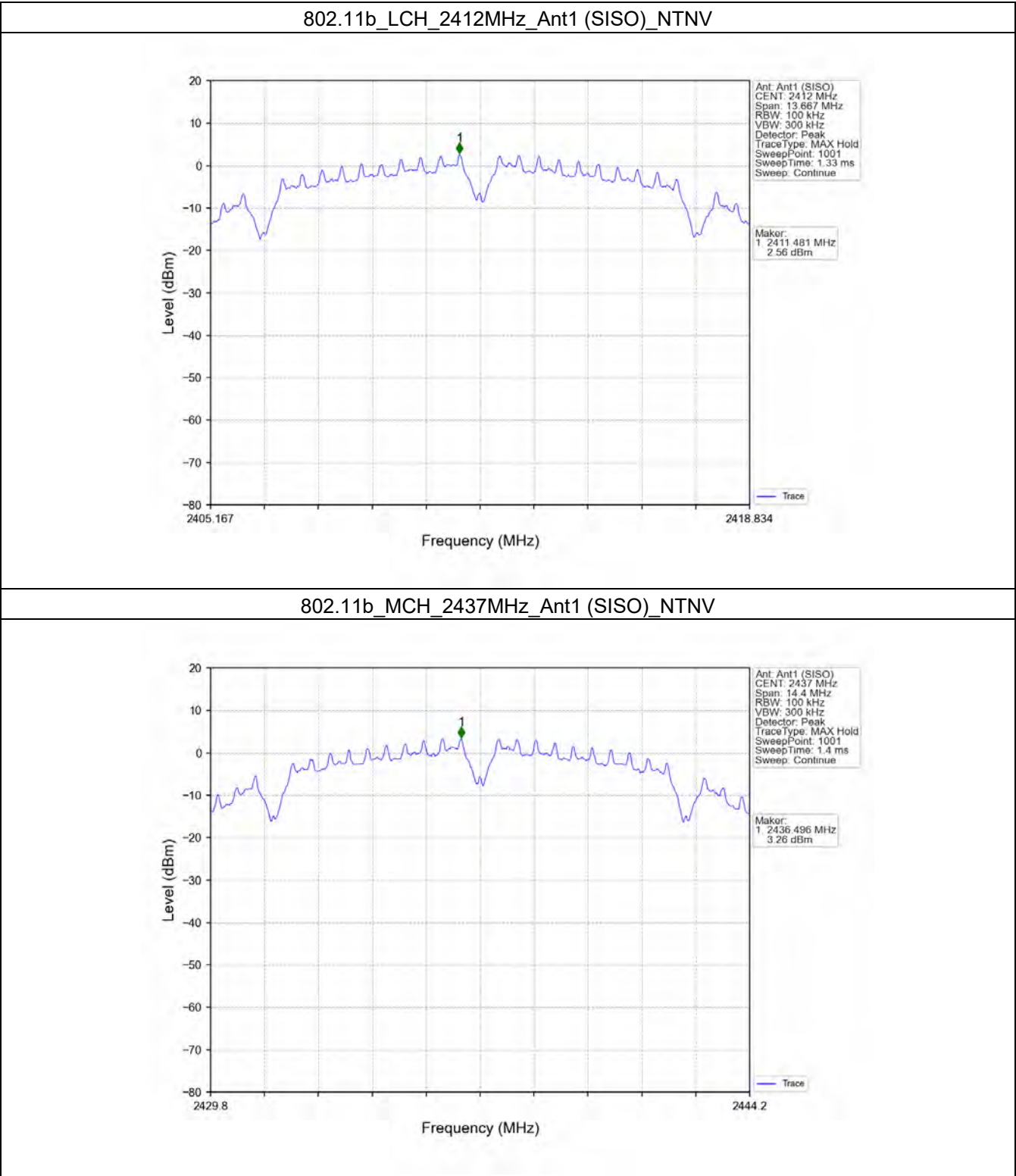
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802.11n (HT20)	SISO	2412	/	/	1	1.24	-18.76	Pass
		2437	/	/	1	1.24	-18.76	Pass
		2462	/	/	1	1.24	-18.76	Pass
802.11n (HT40)	SISO	2422	/	/	1	-0.59	-20.59	Pass
		2437	/	/	1	-0.59	-20.59	Pass
		2452	/	/	1	-0.59	-20.59	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	1	1.36	-18.64	Pass
		2437	RU242	Left	1	1.36	-18.64	Pass
		2462	RU242	Left	1	1.36	-18.64	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	1	-0.48	-20.48	Pass
		2437	RU484	Left	1	-0.48	-20.48	Pass
		2452	RU484	Left	1	-0.48	-20.48	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.

5.2 Test Graph

5.2.1 Ref



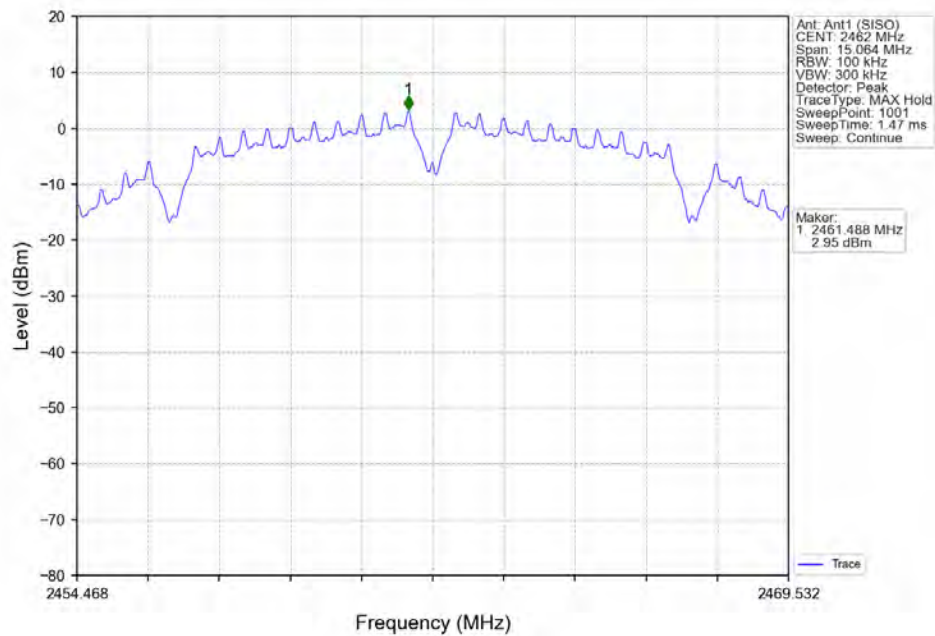
Compliance Certification Services (Kunshan) Inc.

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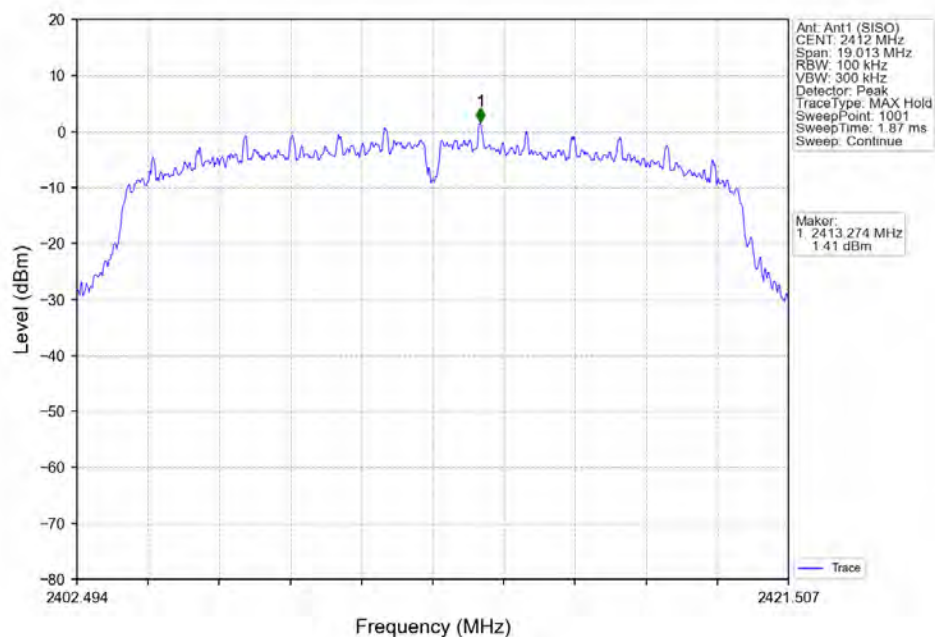
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



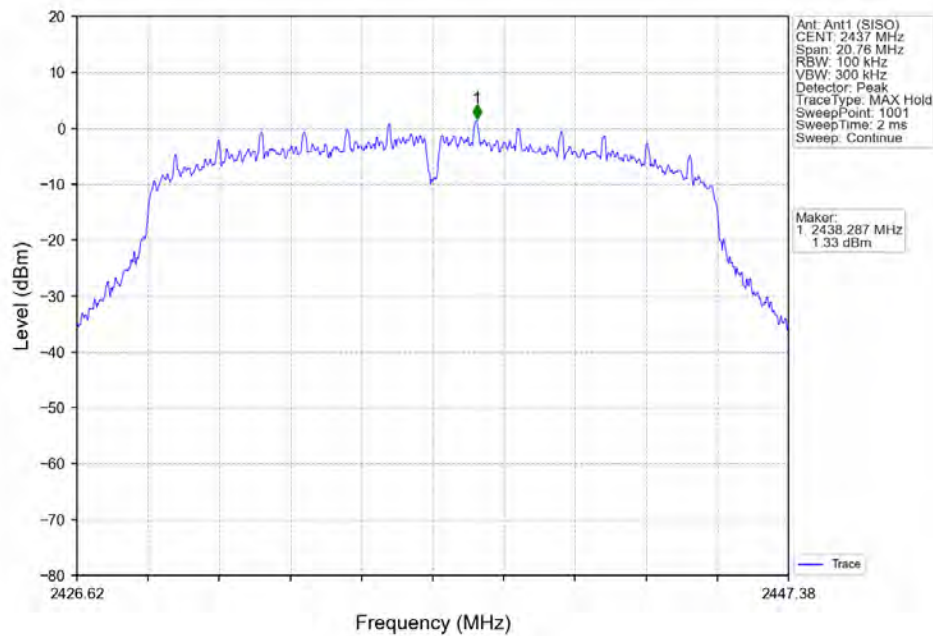
Compliance Certification Services (Kunshan) Inc.

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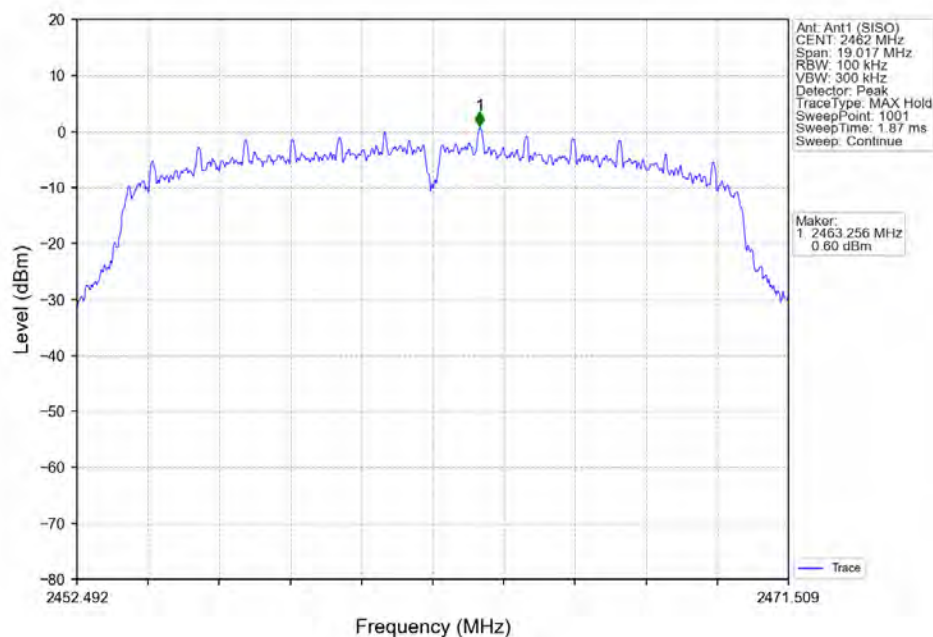
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



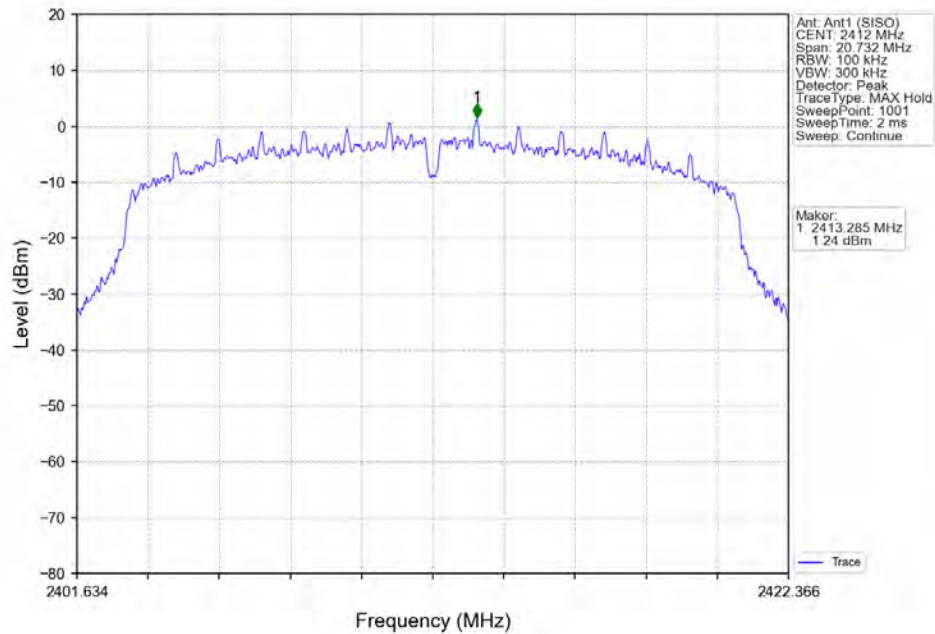
Compliance Certification Services (Kunshan) Inc.

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

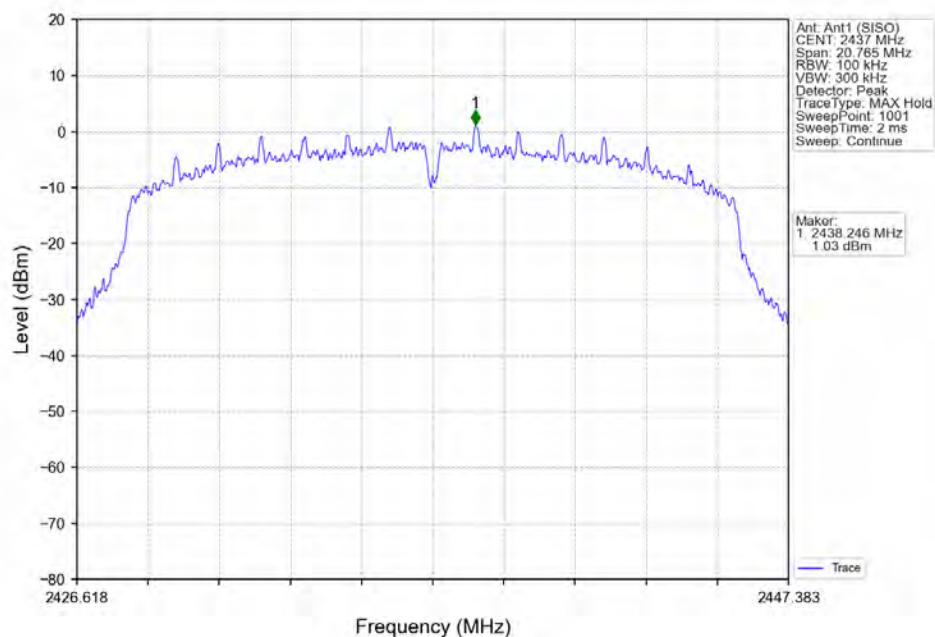
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



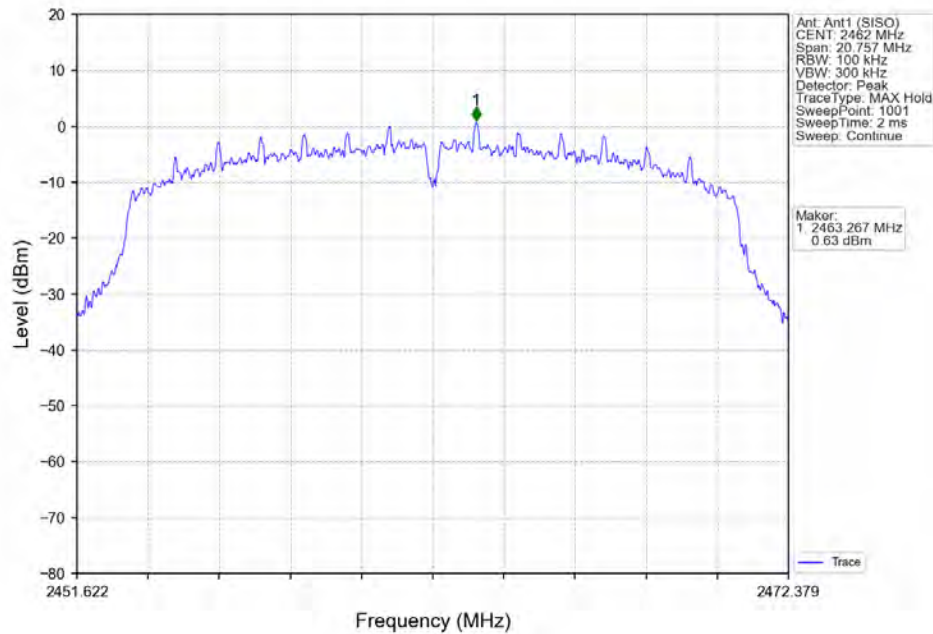
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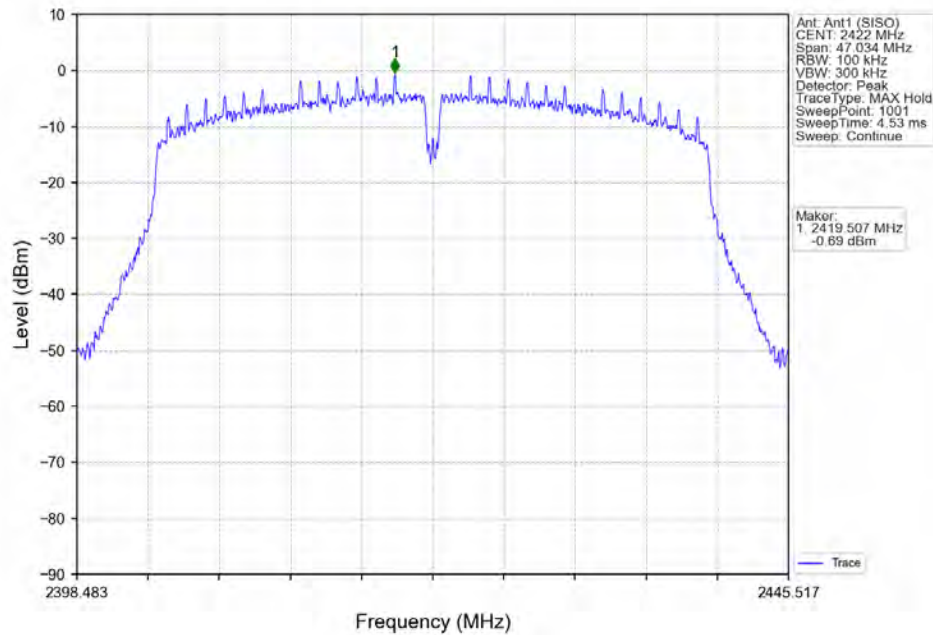
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



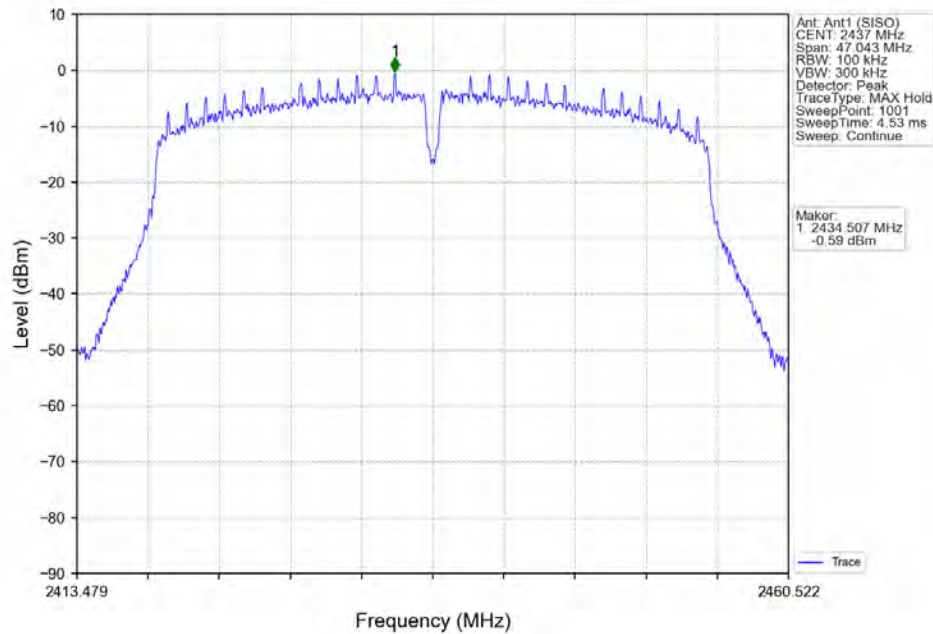
Compliance Certification Services (Kunshan) Inc.

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

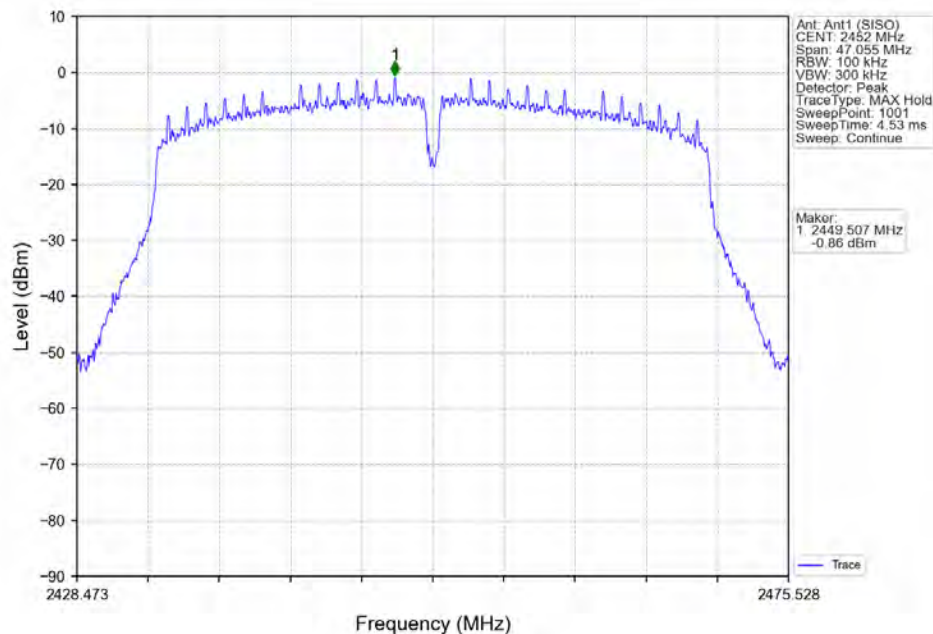
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



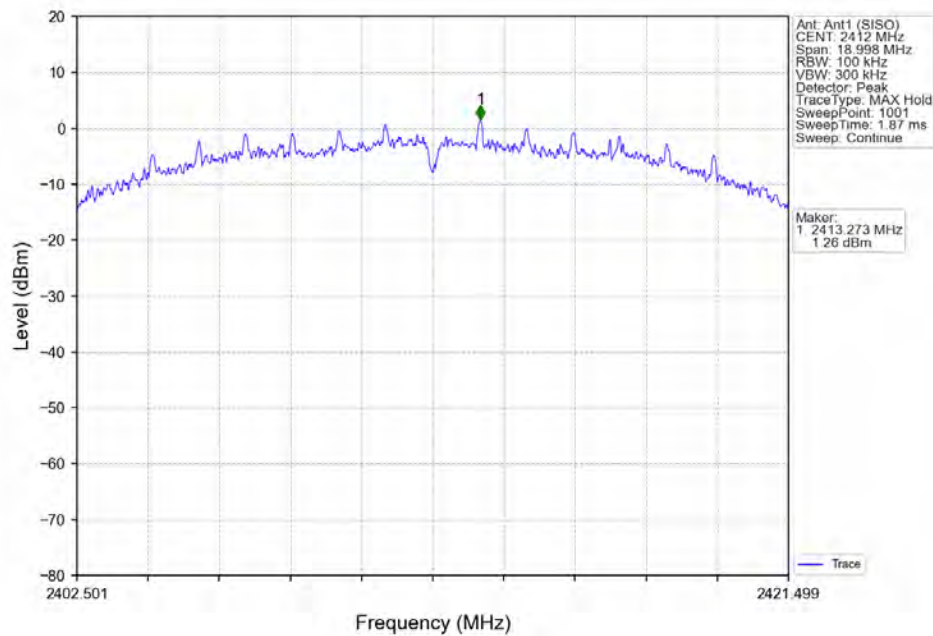
Compliance Certification Services (Kunshan) Inc.

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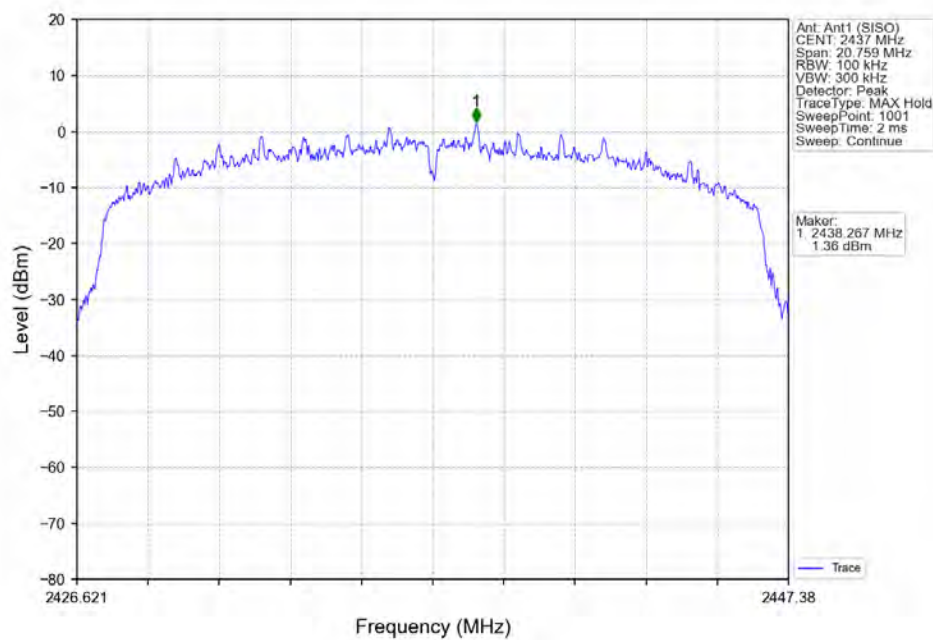
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802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



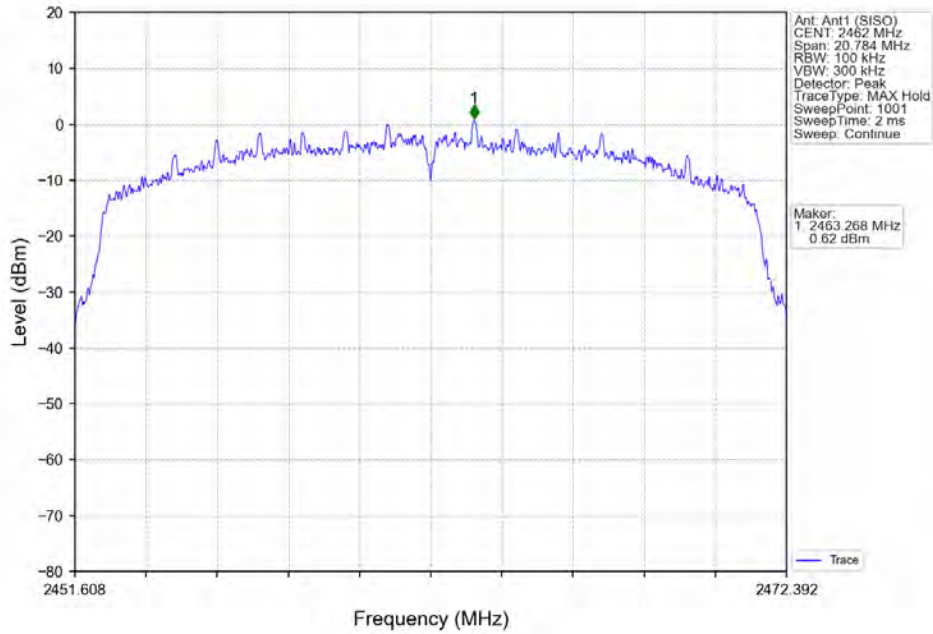
Compliance Certification Services (Kunshan) Inc.

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

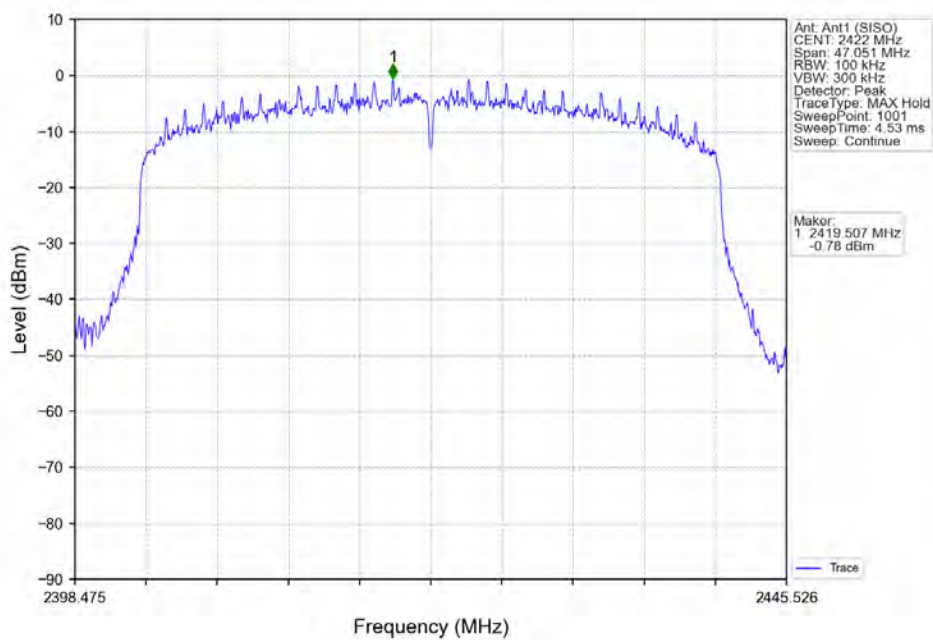
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802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



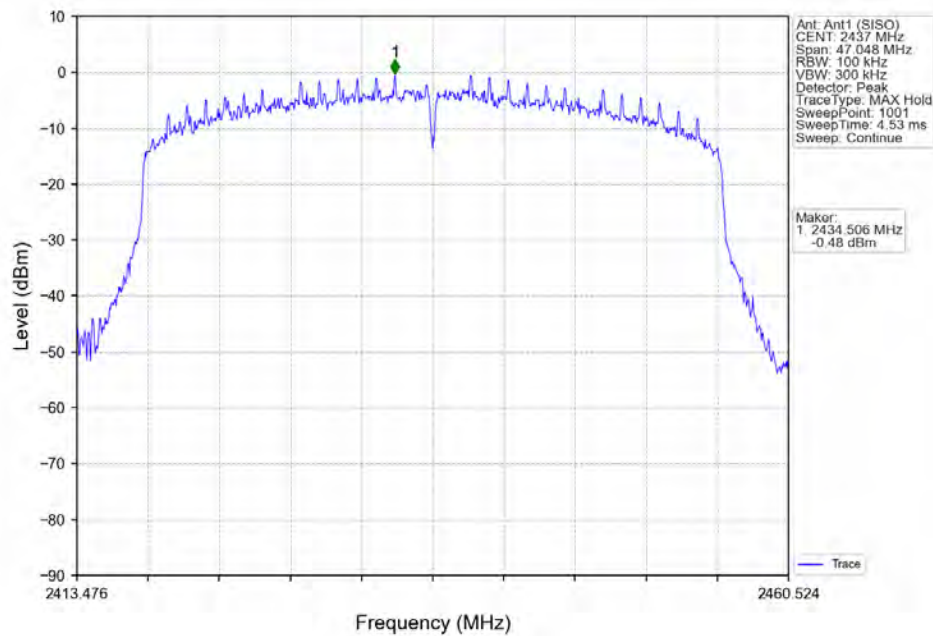
Compliance Certification Services (Kunshan) Inc.

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

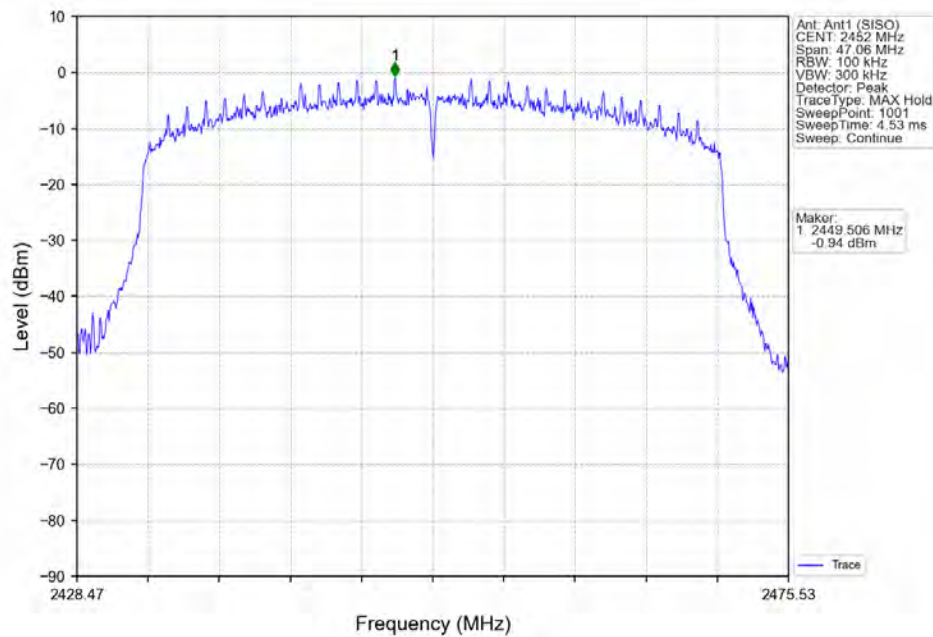
Report No.: KSCR240700134201

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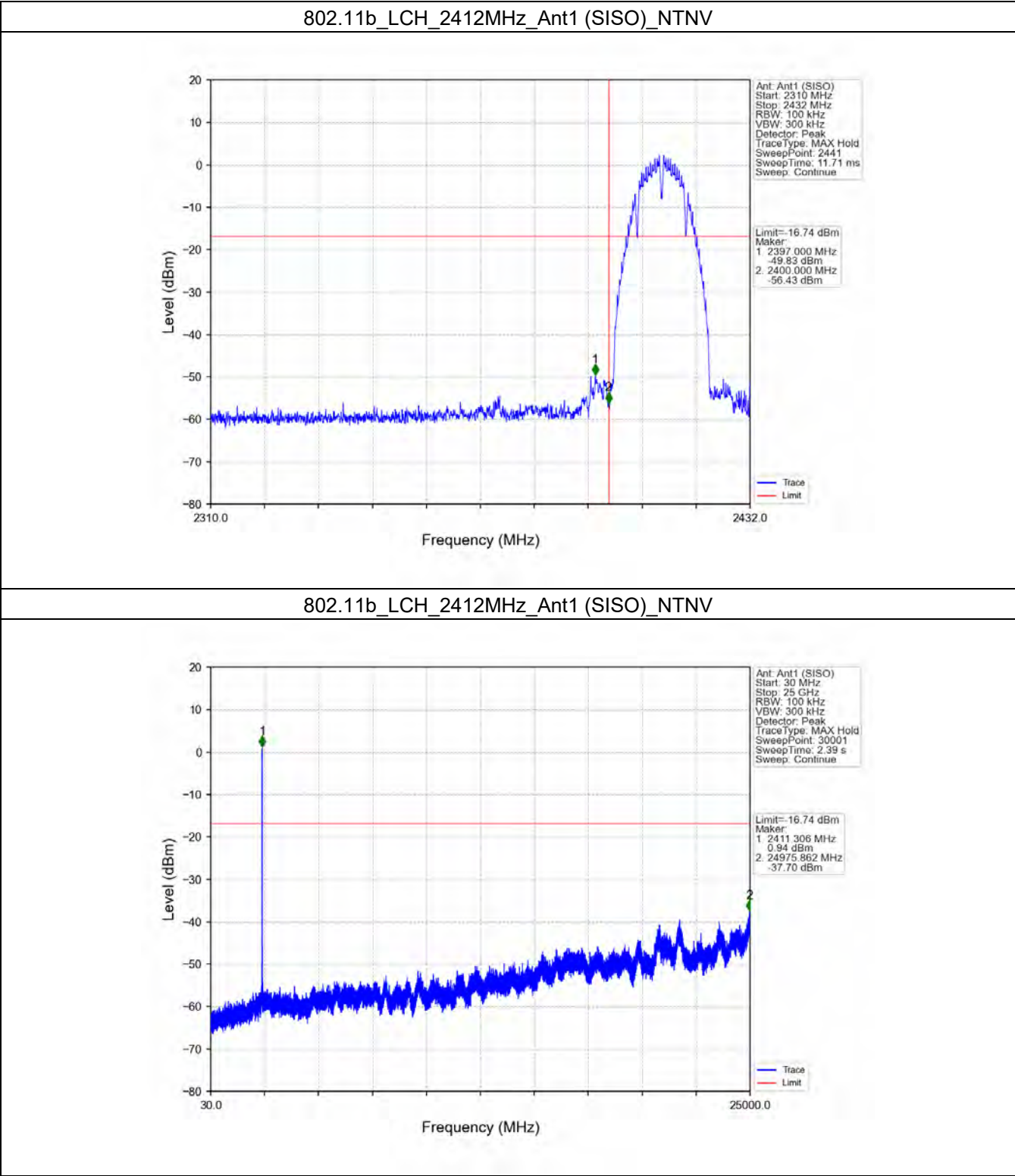
802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



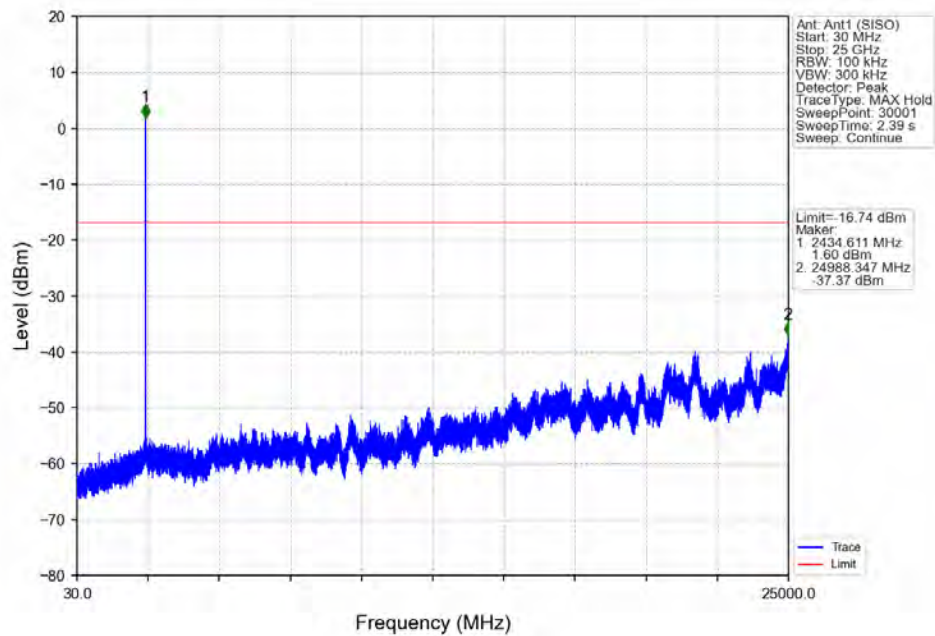
802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



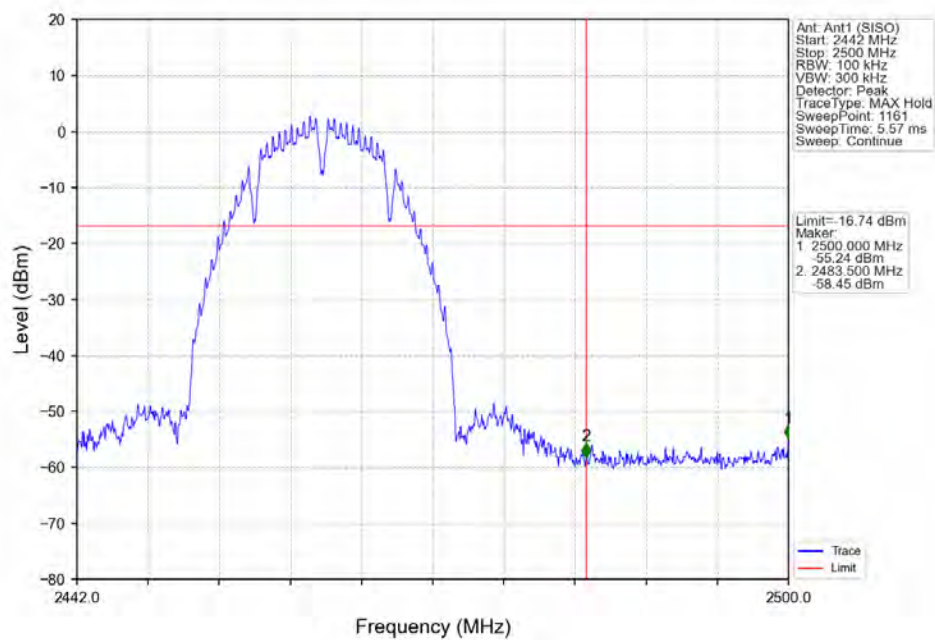
5.2.2 CSE



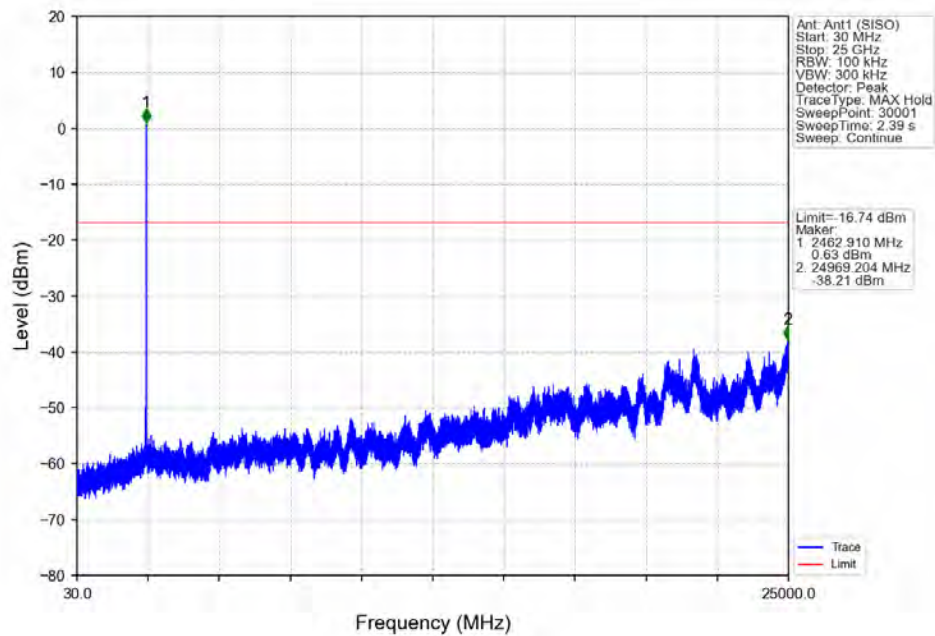
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



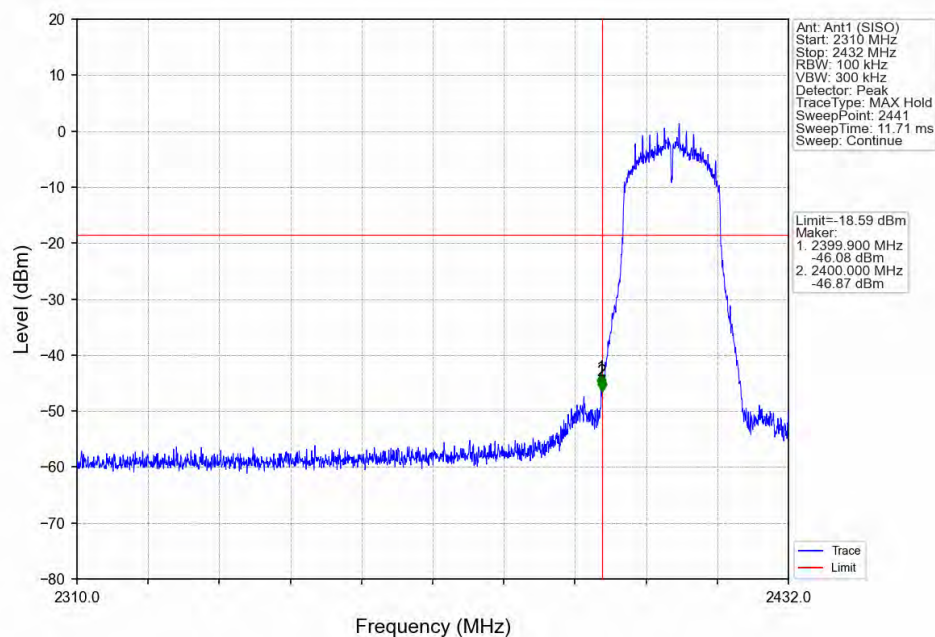
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



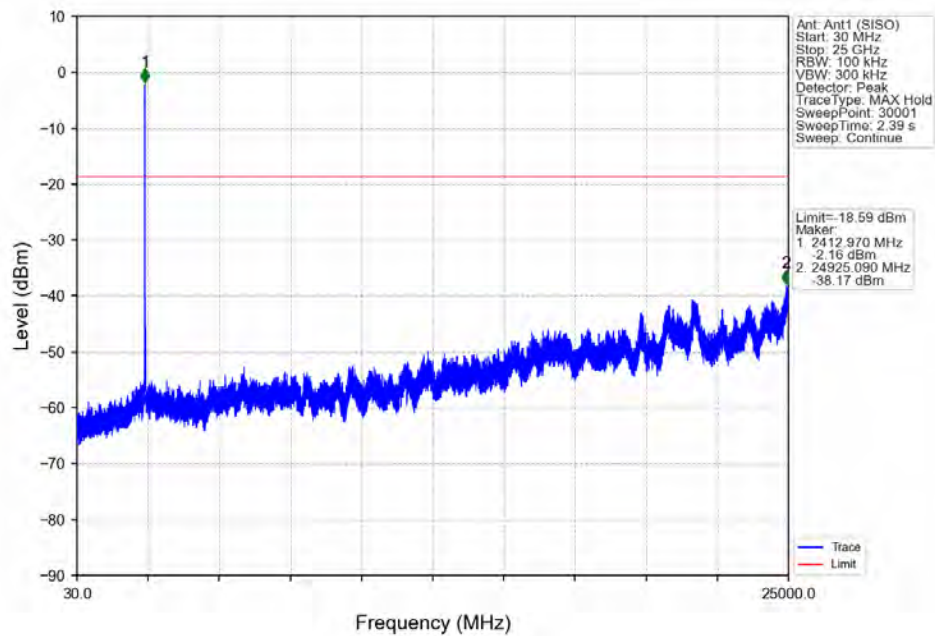
Compliance Certification Services (Kunshan) Inc.

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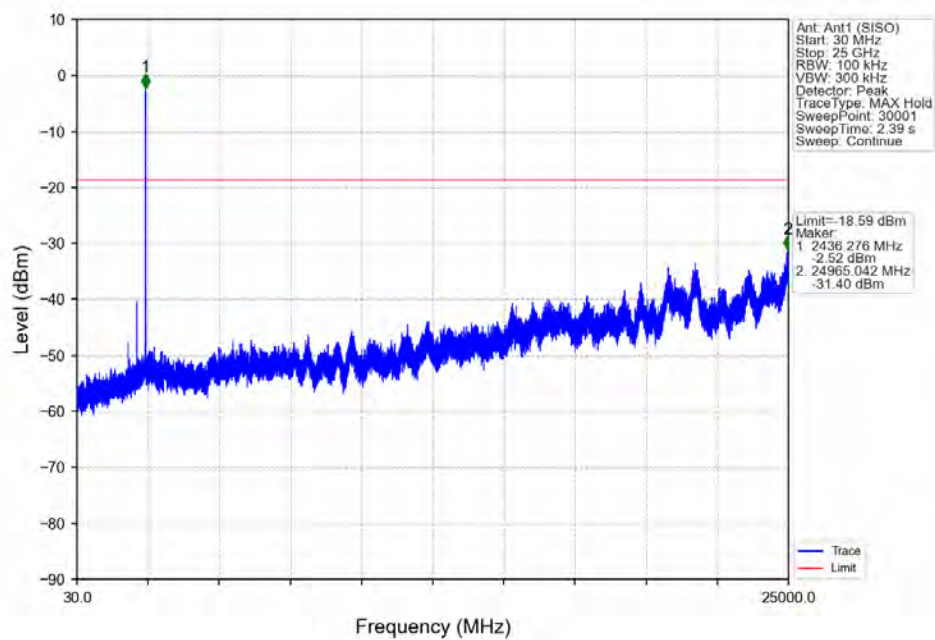
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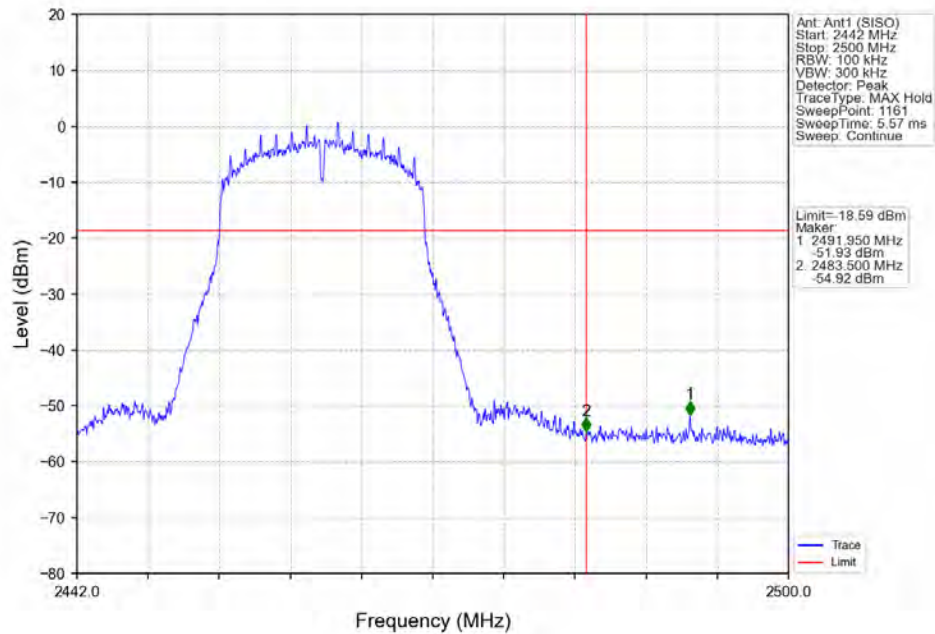
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



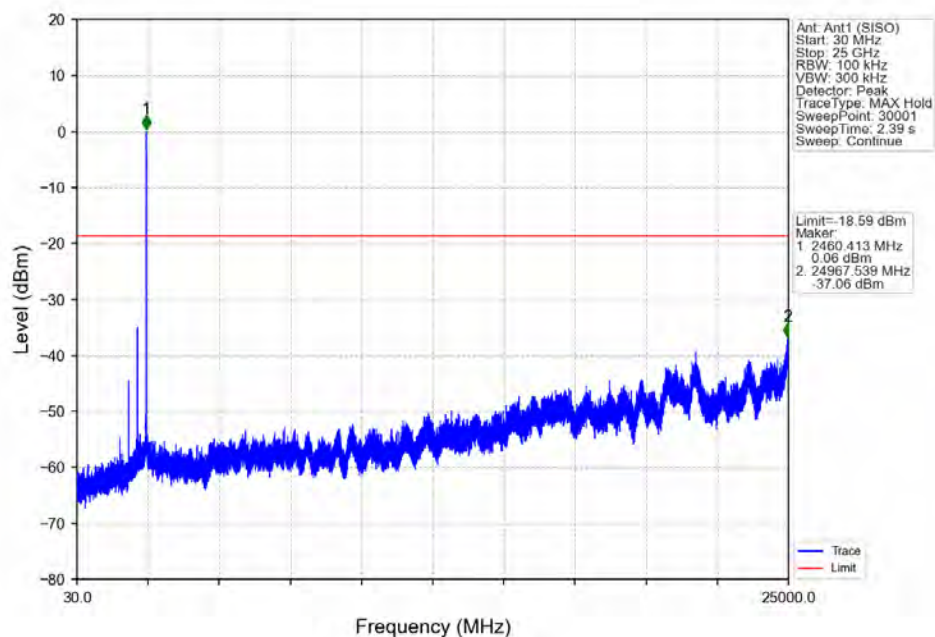
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



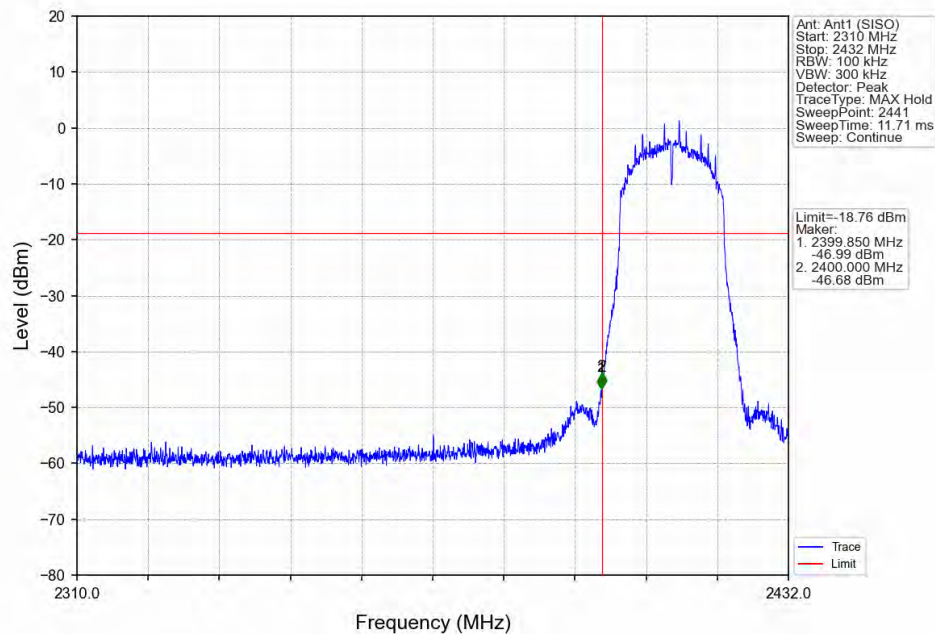
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



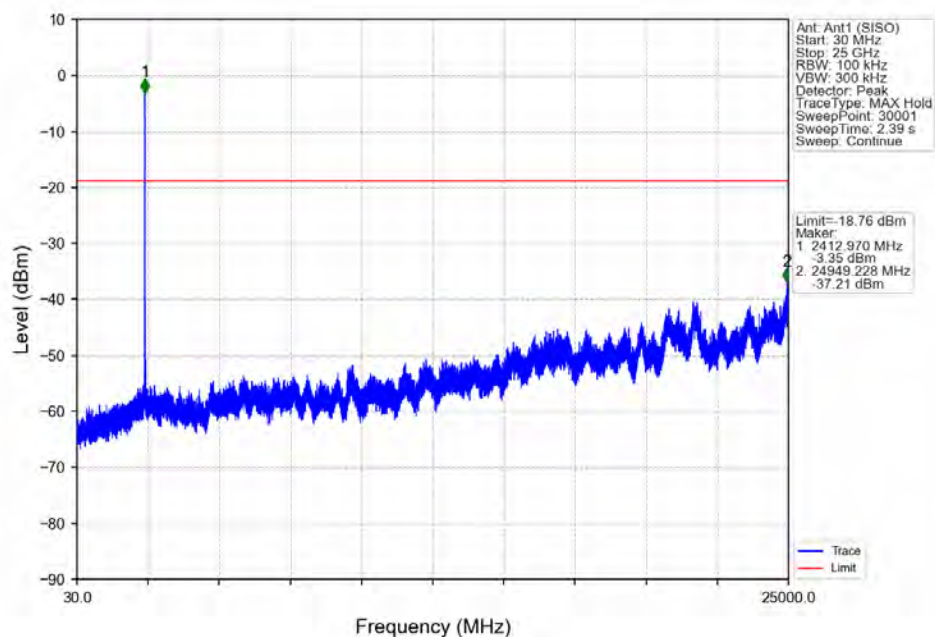
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



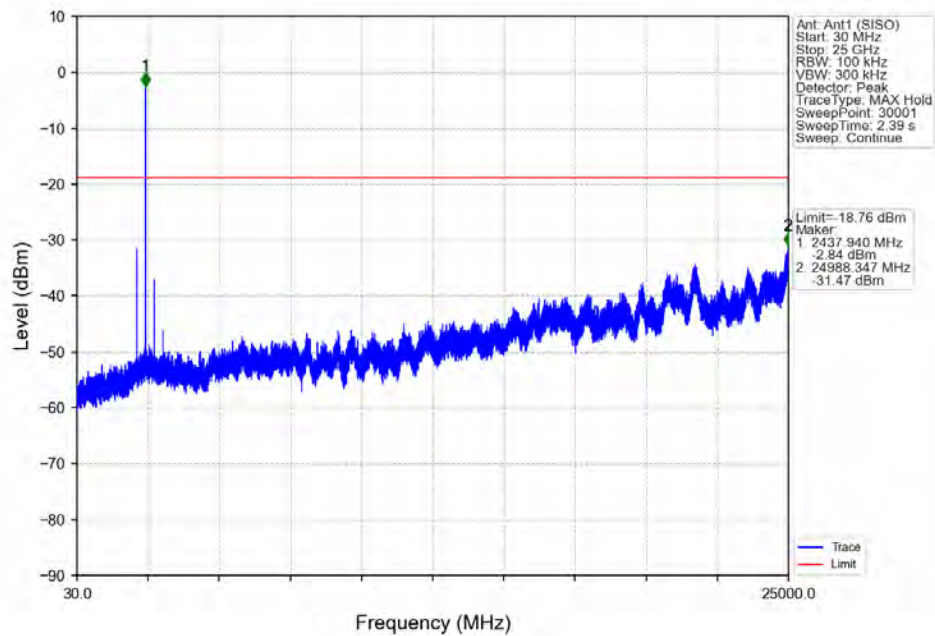
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



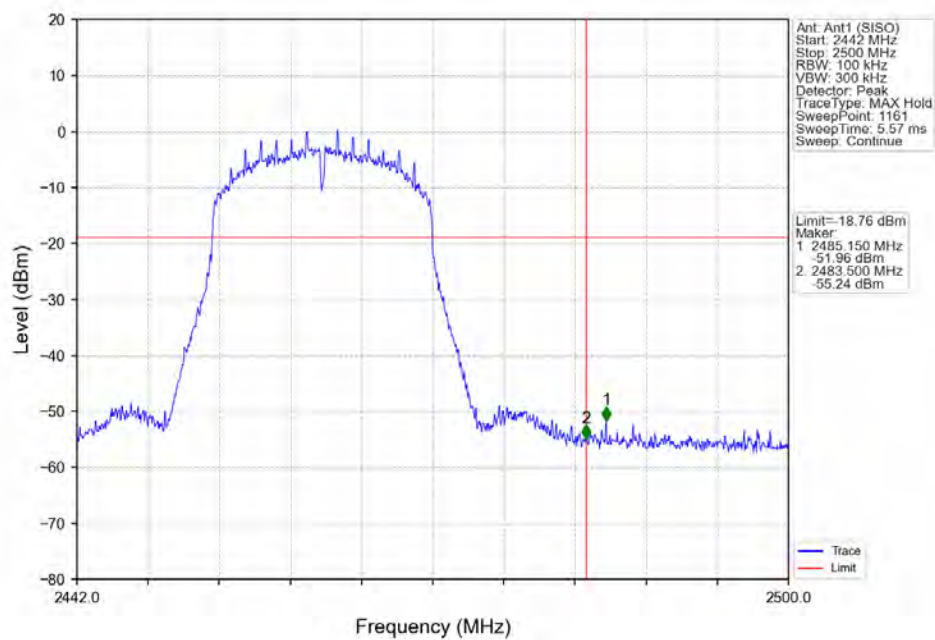
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



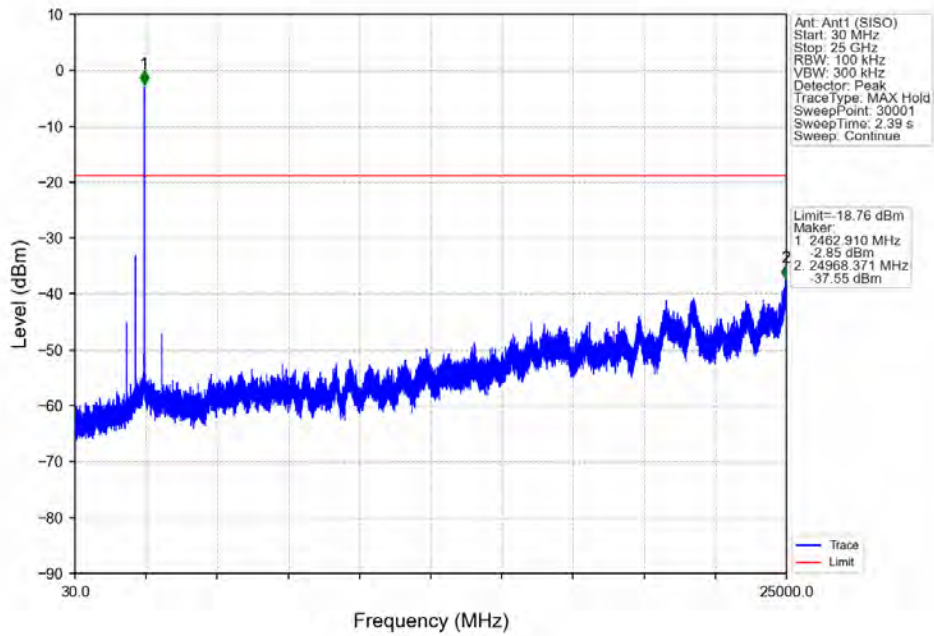
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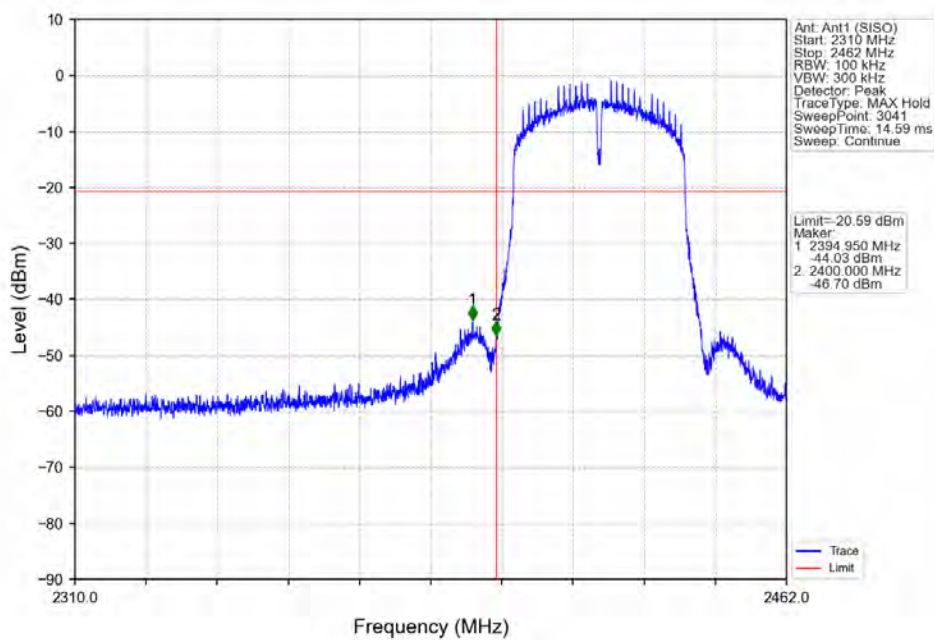
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



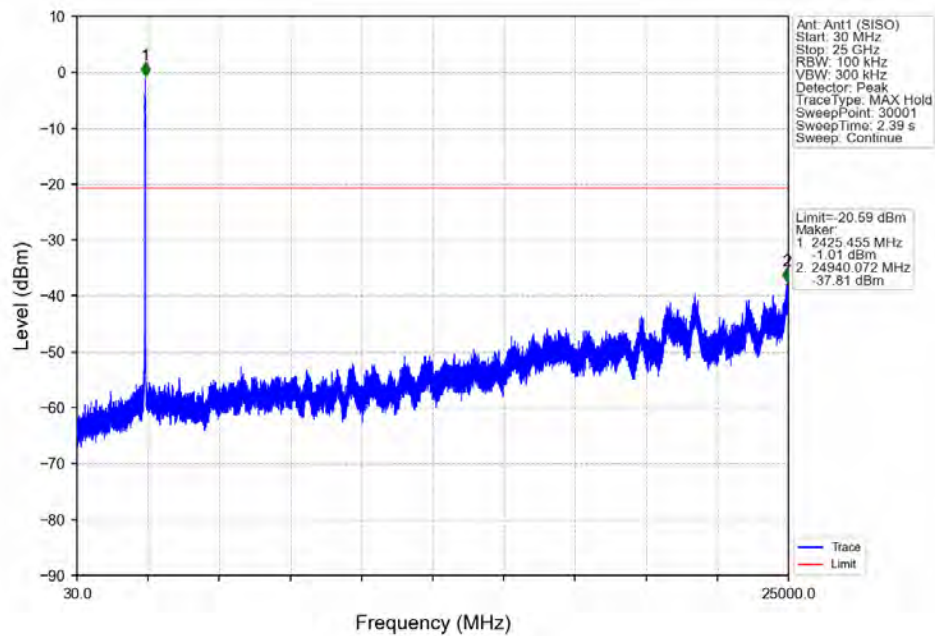
Compliance Certification Services (Kunshan) Inc.

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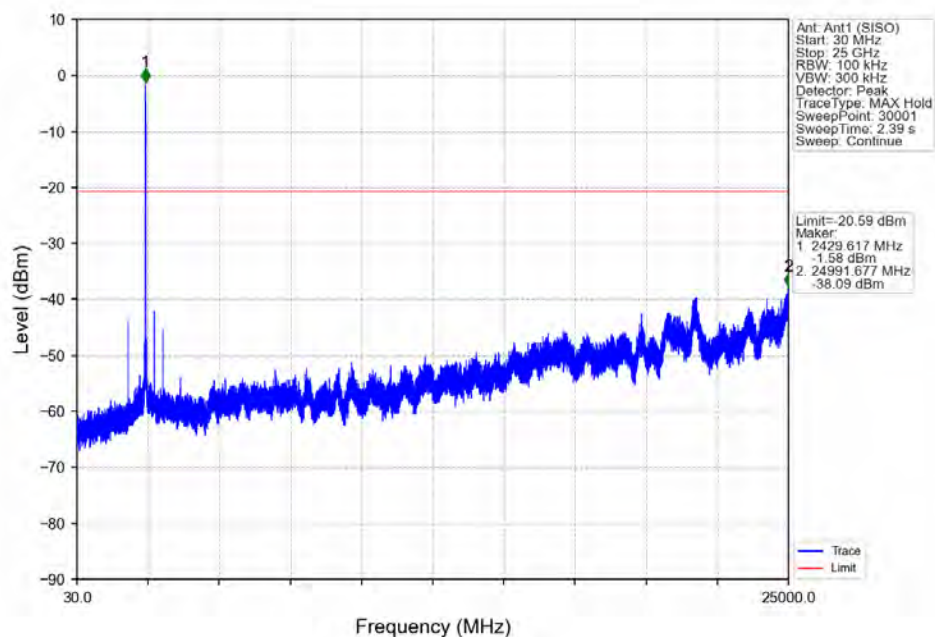
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



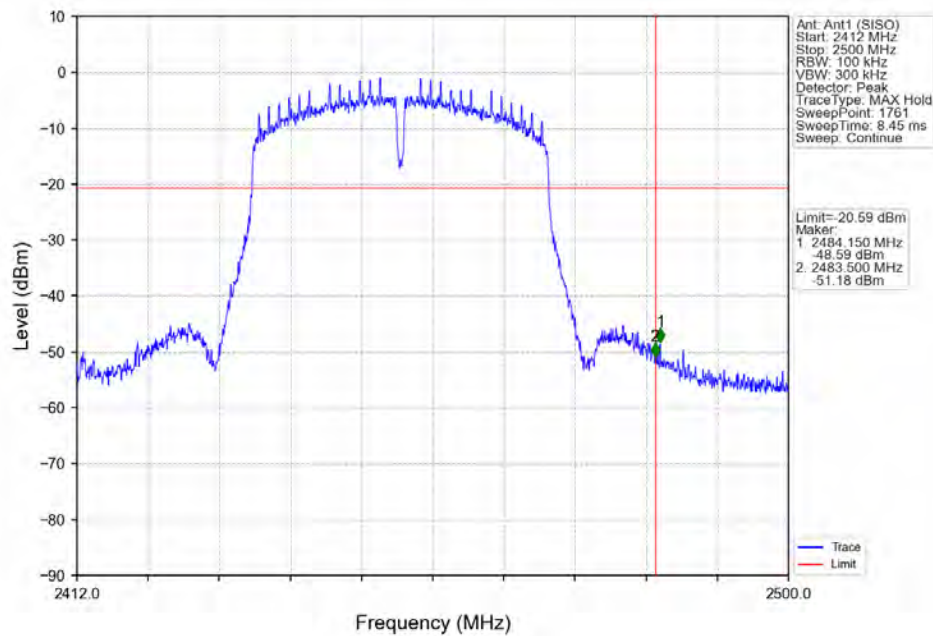
Compliance Certification Services (Kunshan) Inc.

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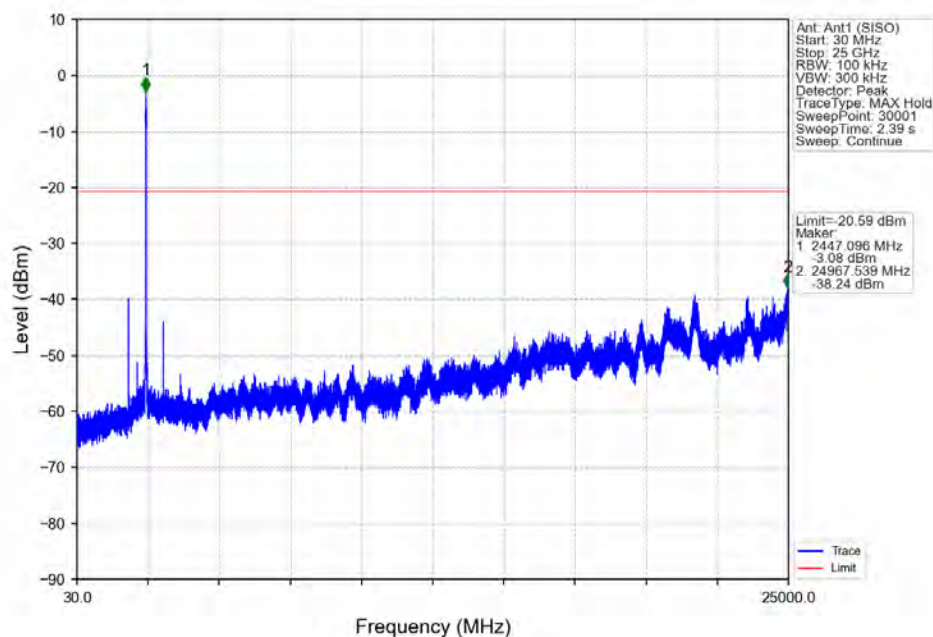
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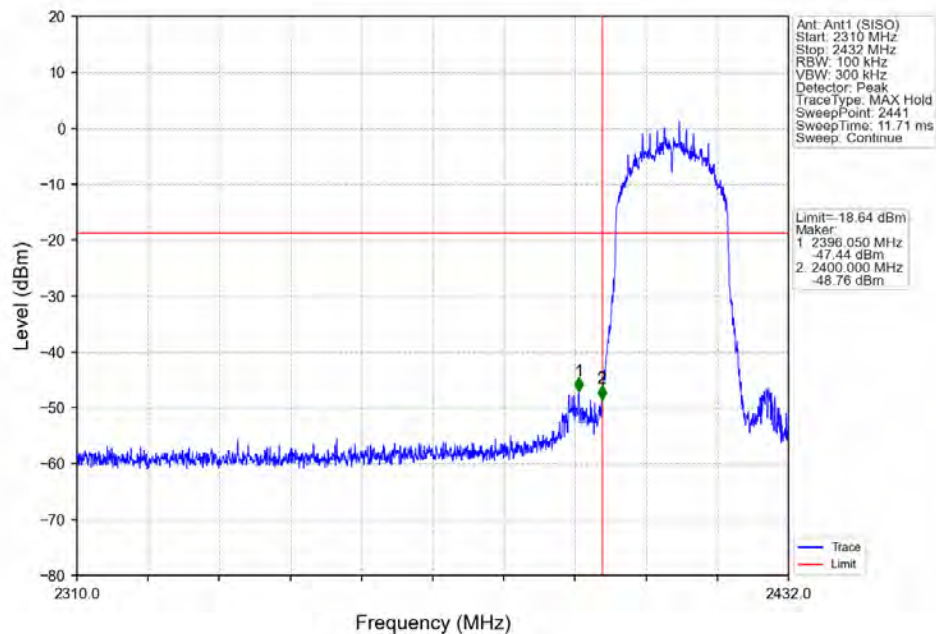
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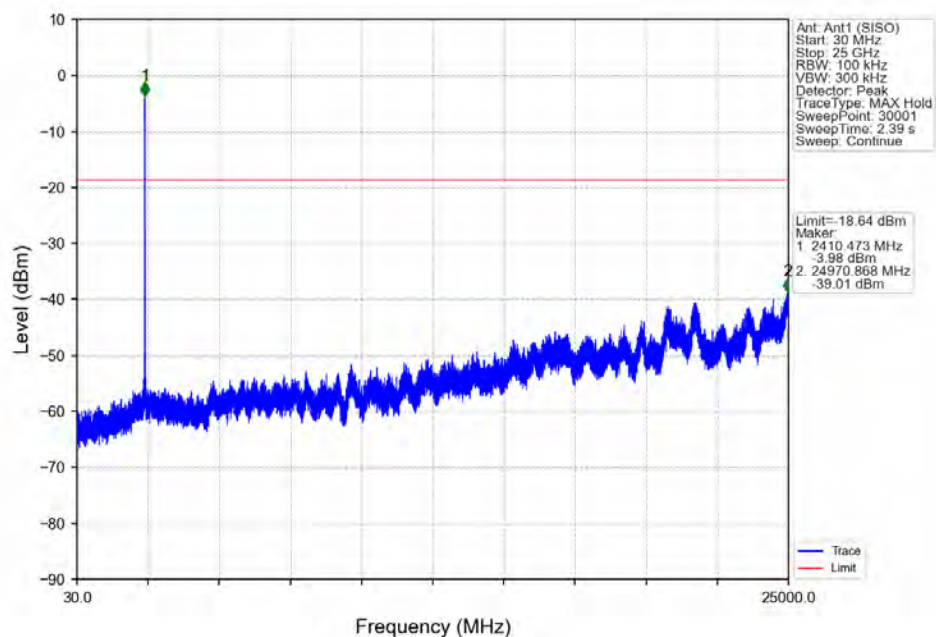
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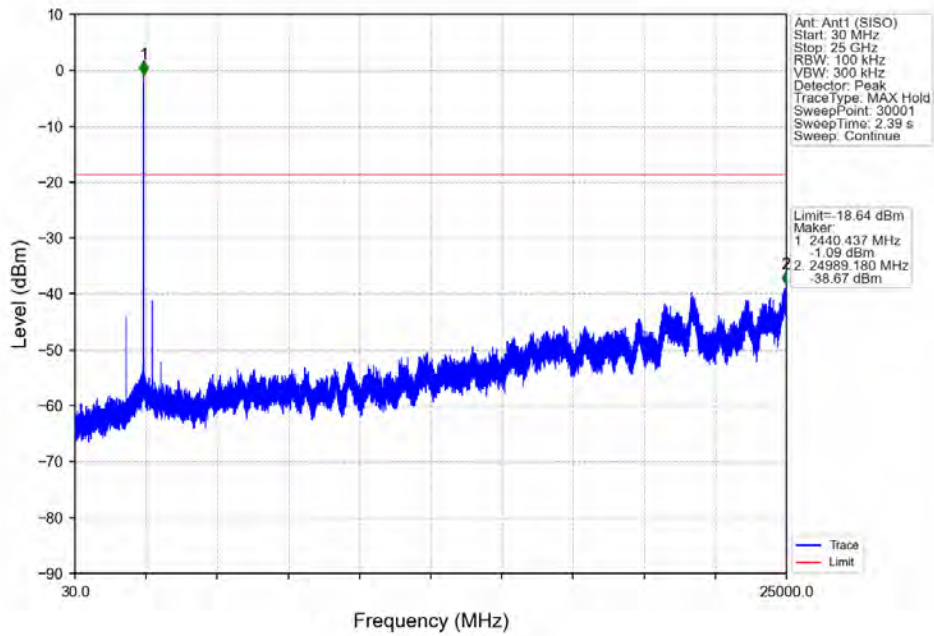
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



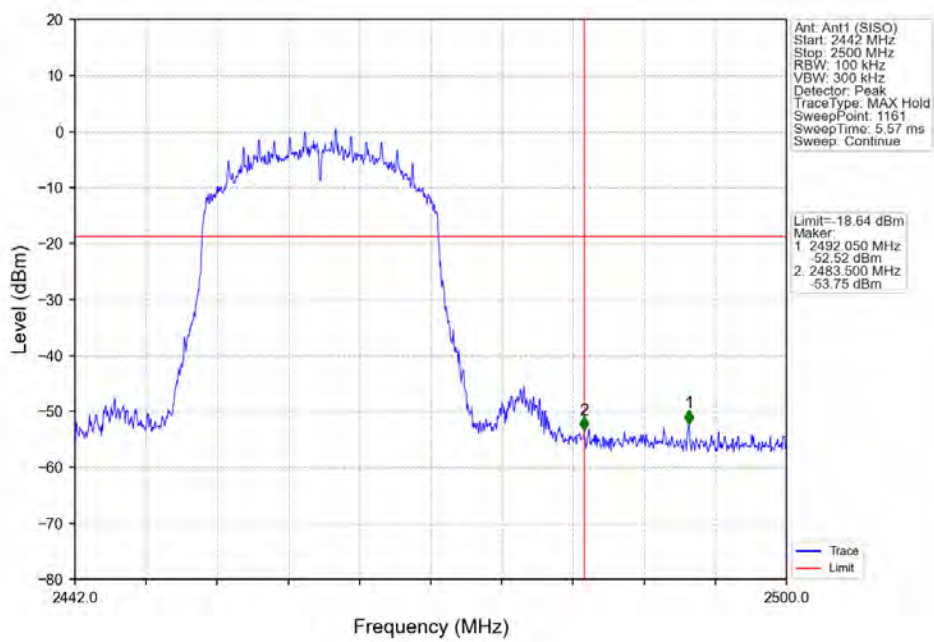
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



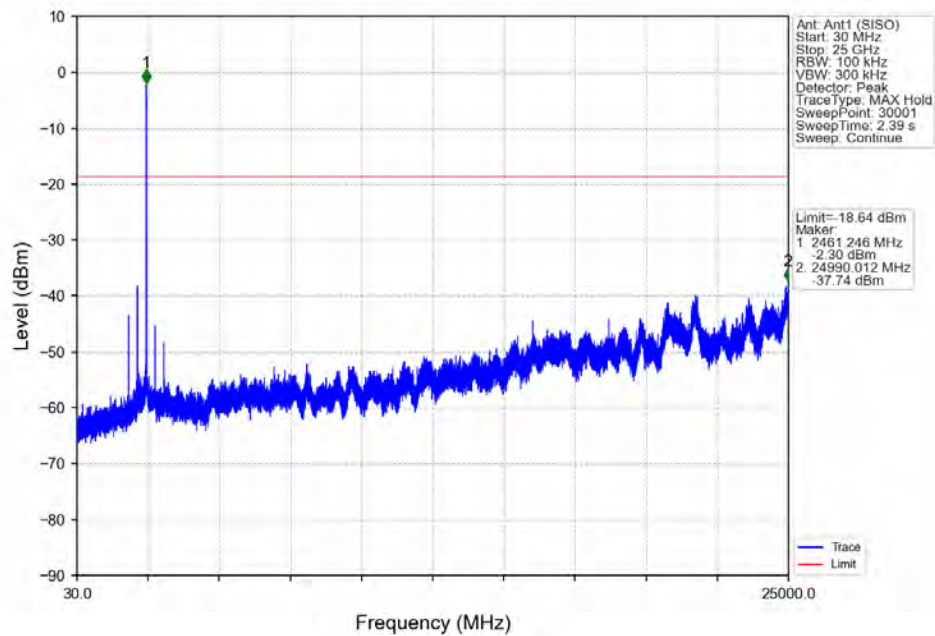
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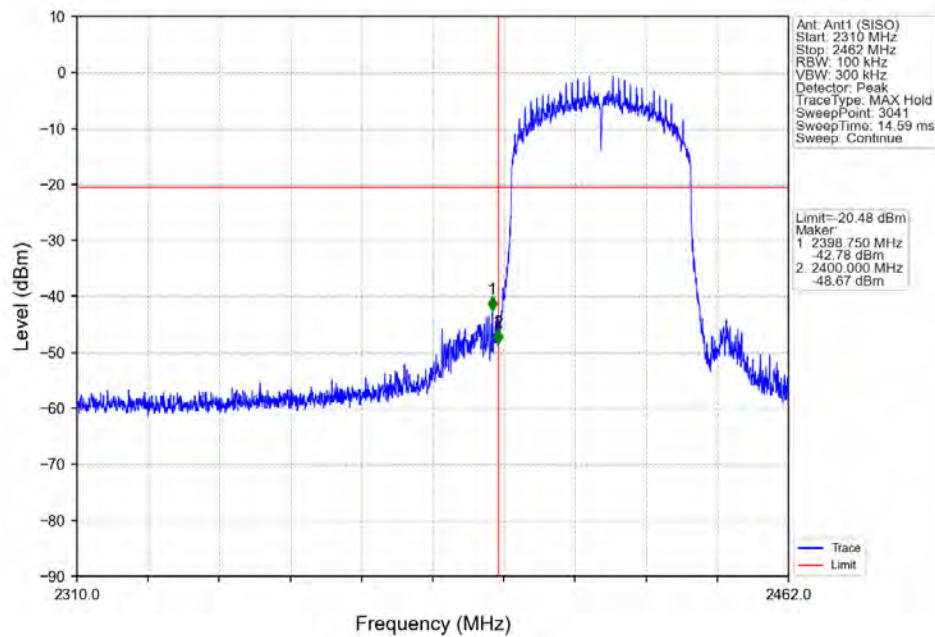
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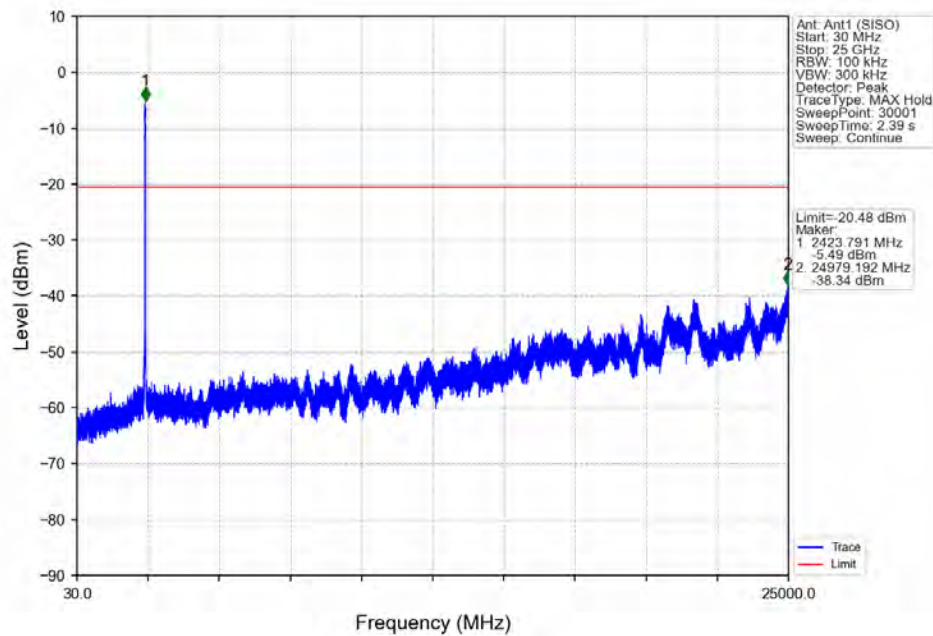
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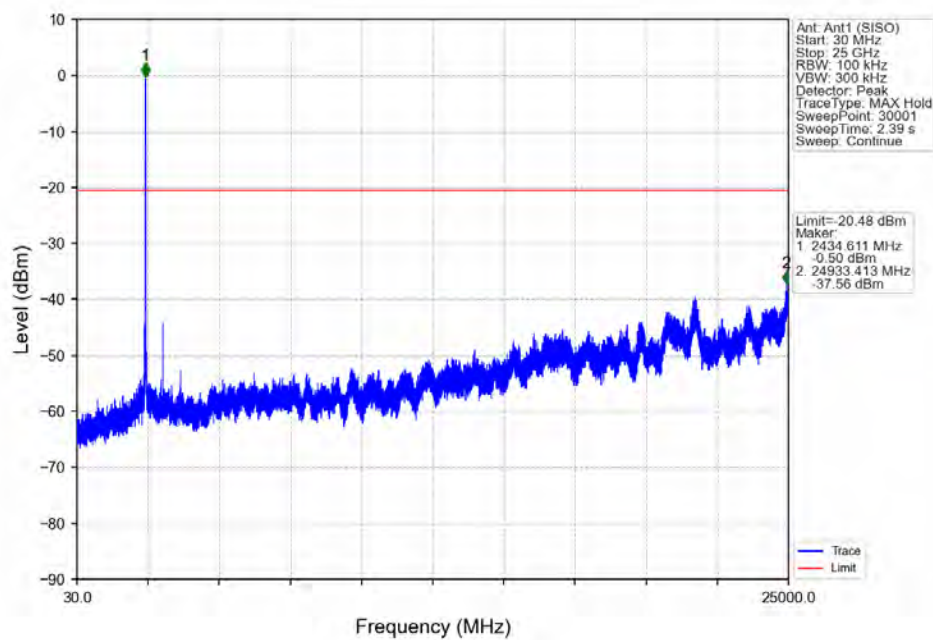
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



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802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



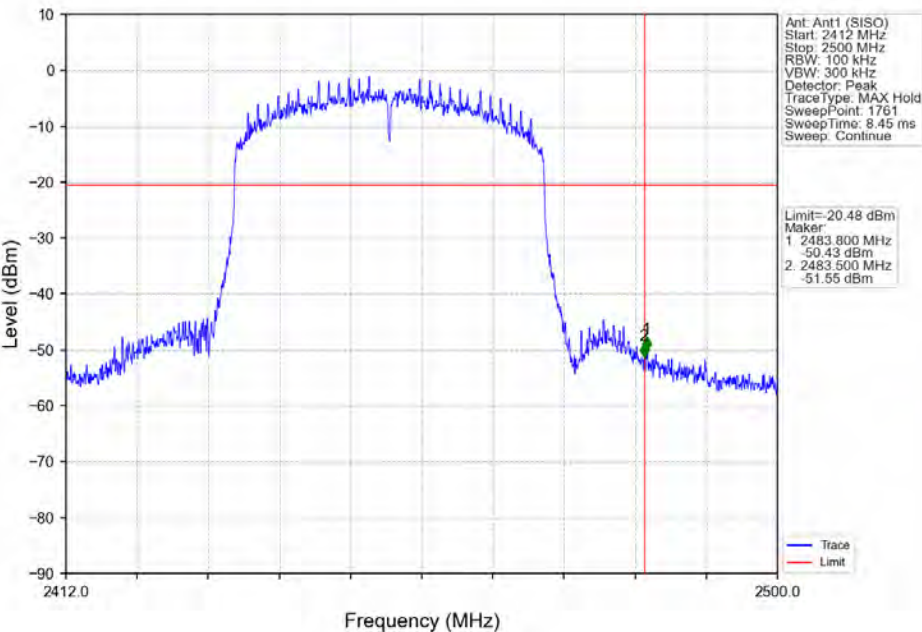
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802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV

