

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 1 of 118

TEST REPORT

Application No.: FYCR2212000488AT
Applicant: Chengdu Tecloman Energy Storage Technology Co., Ltd
Address of Applicant: 900 Guijin Road, Xindu District, Chengdu China
Manufacturer: Chengdu Tecloman Energy Storage Technology Co., Ltd
Address of Manufacturer: 900 Guijin Road, Xindu District, Chengdu China
Factory: Chengdu Tecloman Energy Storage Technology Co., Ltd
Address of Factory: 900 Guijin Road, Xindu District, Chengdu China
Equipment Under Test (EUT):
EUT Name: Battery System
Model No.: Firefly Pro-H3, Firefly Pro-H4, Firefly Pro-H5, Firefly Pro-H6, Firefly Pro-H7, Firefly Pro-H8
 ♣ Please refer to section 2 of this report which indicates which model was actual tested and which were electrically identical.

Trade Mark: **TECLOMAN**

FCC ID: 2A9WV-FIREFLY-PRO
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2022-12-04
Date of Test: 2023-01-14 to 2023-02-24
Date of Issue: 2023-02-26

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Winkey Wang

Winkey Wang
EMC Technical Manager



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Report No.: FYCR221200048801

Page: 2 of 118

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-02-26		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/Reviewer		



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 3 of 118

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 Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Declaration of EUT Family Grouping:

Model No.: Firefly Pro-H3, Firefly Pro-H4, Firefly Pro-H5, Firefly Pro-H6, Firefly Pro-H7, Firefly Pro-H8

Only the model Firefly Pro-H8 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on model No., number of battery modules, rated voltage and energy, overall dimensions and weight.



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 4 of 118

3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	6
4.1 DETAILS OF E.U.T.	6
4.2 DESCRIPTION OF SUPPORT UNITS	6
4.3 MEASUREMENT UNCERTAINTY	6
4.4 TEST LOCATION	7
4.5 TEST FACILITY	7
4.6 DEVIATION FROM STANDARDS	7
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	7
5 EQUIPMENT LIST	8
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	11
6.1 ANTENNA REQUIREMENT	11
6.1.1 Test Requirement:	11
6.1.2 Conclusion	11
7 RADIO SPECTRUM MATTER TEST RESULTS	12
7.1 CONDUCTED PEAK OUTPUT POWER	12
7.1.1 E.U.T. Operation	12
7.1.2 Test Mode Description	12
7.1.3 Test Setup Diagram	13
7.1.4 Measurement Procedure and Data	13
7.2 MINIMUM 6dB BANDWIDTH	14
7.2.1 E.U.T. Operation	14
7.2.2 Test Mode Description	14
7.2.3 Test Setup Diagram	14
7.2.4 Measurement Procedure and Data	14
7.3 POWER SPECTRUM DENSITY	15
7.3.1 E.U.T. Operation	15
7.3.2 Test Mode Description	15
7.3.3 Test Setup Diagram	15
7.3.4 Measurement Procedure and Data	15
7.4 CONDUCTED BAND EDGES MEASUREMENT	16
7.4.1 E.U.T. Operation	16
7.4.2 Test Mode Description	16
7.4.3 Test Setup Diagram	17
7.4.4 Measurement Procedure and Data	17
7.5 CONDUCTED SPURIOUS EMISSIONS	18
7.5.1 E.U.T. Operation	18



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 5 of 118

7.5.2	Test Mode Description	18
7.5.3	Test Setup Diagram	19
7.5.4	Measurement Procedure and Data	19
7.6	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	20
7.6.1	E.U.T. Operation	20
7.6.2	Test Mode Description	20
7.6.3	Test Setup Diagram	21
7.6.4	Measurement Procedure and Data	22
7.7	RADIATED SPURIOUS EMISSIONS BELOW 1GHz	47
7.7.1	E.U.T. Operation	47
7.7.2	Test Mode Description	47
7.7.3	Test Setup Diagram	48
7.7.4	Measurement Procedure and Data	48
7.8	RADIATED SPURIOUS EMISSIONS ABOVE 1GHz	51
7.8.1	E.U.T. Operation	51
7.8.2	Test Mode Description	51
7.8.3	Test Setup Diagram	51
7.8.4	Measurement Procedure and Data	52
8	TEST SETUP PHOTO	71
9	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	71
10	APPENDIX	72



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4 General Information

4.1 Details of E.U.T.

Power supply:	Firefly Pro-H3/153.6V/7.5kWh/7.5kW Firefly Pro-H4/204.8V/10.0kWh/10.0kW Firefly Pro-H5/256.0V/12.5kWh/12.5kW Firefly Pro-H6/307.2V/15.0kWh/15.0kW Firefly Pro-H7/358.4V/17.5kWh/17.5kW Firefly Pro-H8/409.6V/20.0kWh/20.0kW
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	FPC Antenna
Antenna Gain:	3.84 dBi

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.8dB
Minimum 6dB Bandwidth	± 0.3%
Power Spectrum Density	± 0.4dB
Conducted Band Edges Measurement	± 2.7dB
Conducted Spurious Emissions	± 2.7dB
Radiated Emissions which fall in the restricted bands	± 4.4dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 3.1dB (Below 1GHz)
Radiated Spurious Emissions Above 1GHz	± 4.4dB (Above 1GHz)



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Report No.: FYCR221200048801

Page: 7 of 118

4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

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

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Report No.: FYCR221200048801

Page: 8 of 118

5 Equipment List

Conducted Peak Output Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Power Spectrum Density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A



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Page: 9 of 118

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022/7/12	2023/7/11
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-02	2022/5/16	2023/5/15
Coaxial Cable	CCS	N/A	SEM035-03	2022/5/16	2023/5/15
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-01	2022/5/16	2023/5/15
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 10 of 118

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23
Coaxial Cable	CCS	N/A	SEM035-03	2022/5/16	2023/5/15
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022/7/12	2023/7/11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022/7/12	2023/7/11
Barometer	DUMAI	DYM3	SEM002-24	2022/7/12	2023/7/11



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.84 dBi.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 57.9 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

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



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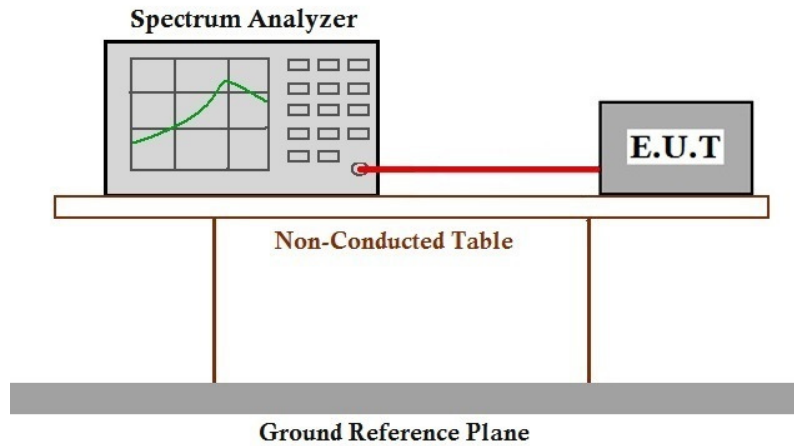
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 13 of 118

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 14 of 118

7.2 Minimum 6dB Bandwidth

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

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

Limit:

≥500 kHz

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

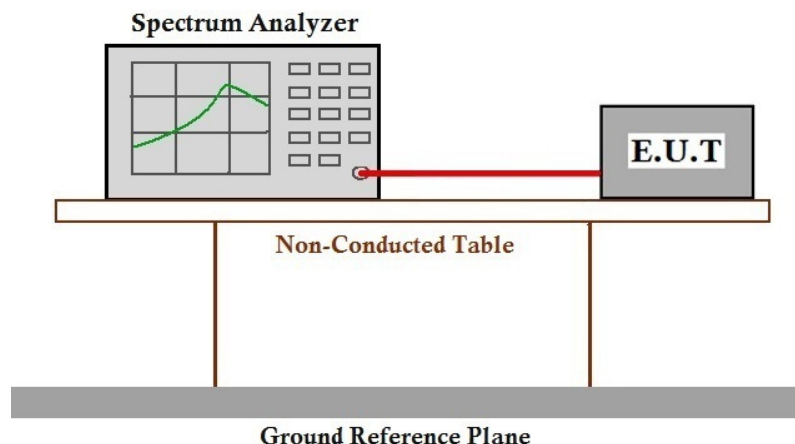
Humidity: 57.9 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

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

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 15 of 118

7.3 Power Spectrum Density

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

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

Limit:

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

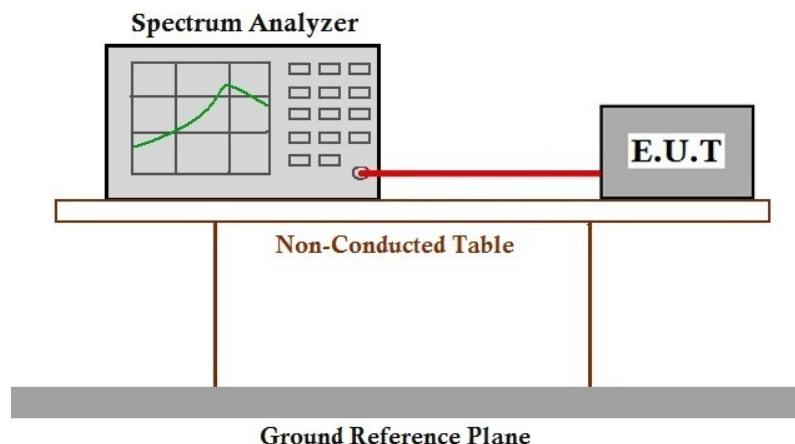
Humidity: 57.9 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

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

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 16 of 118

7.4 Conducted Band Edges Measurement

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

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 57.9 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

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



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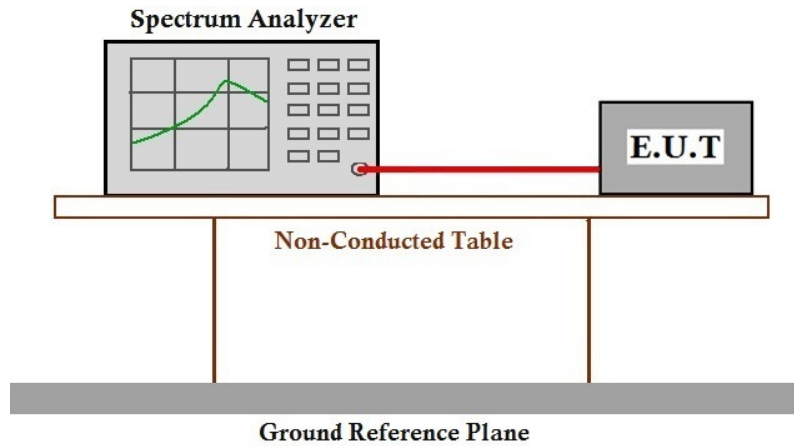
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 17 of 118

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 18 of 118

7.5 Conducted Spurious Emissions

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

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

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

Humidity: 57.9 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

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



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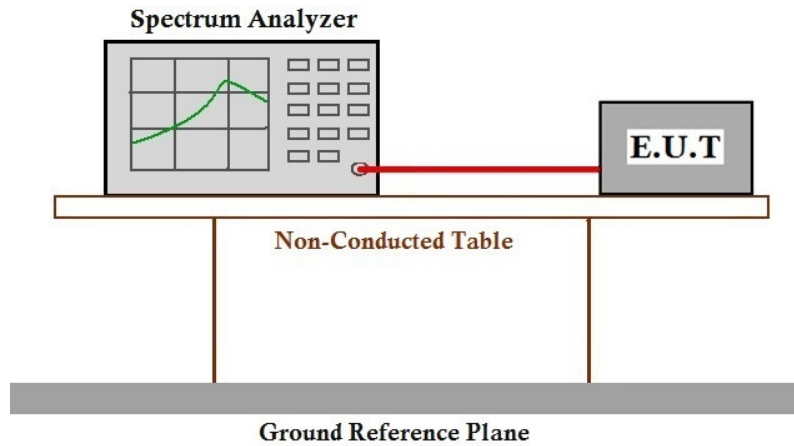
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 19 of 118

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 20 of 118

7.6 Radiated Emissions which fall in the restricted bands

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

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

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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

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

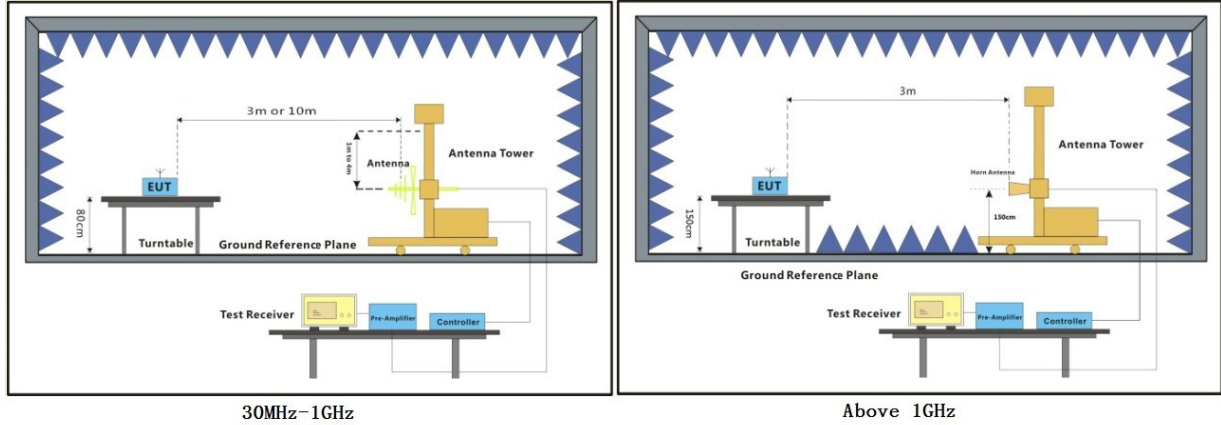


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7.6.3 Test Setup Diagram



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 22 of 118

7.6.4 Measurement Procedure and Data

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

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

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



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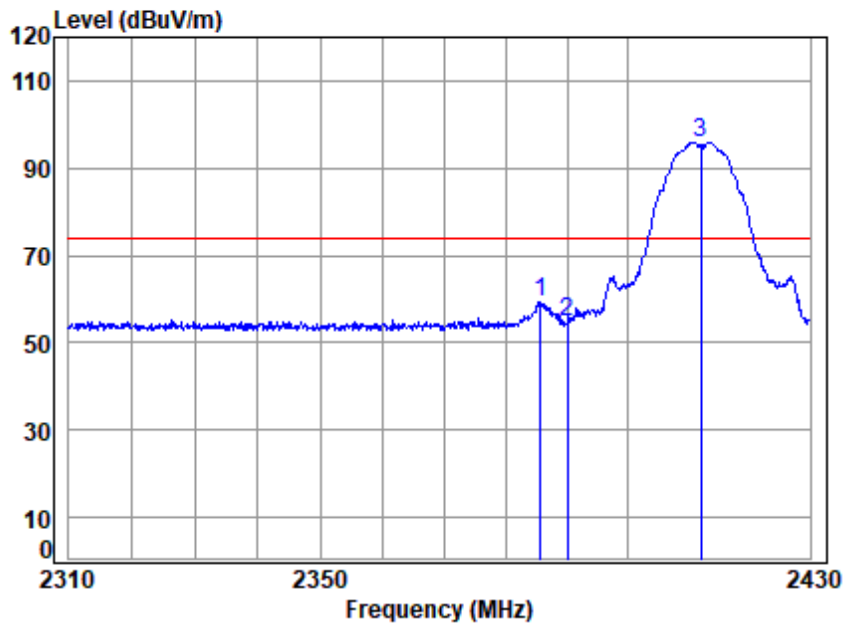
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 23 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2385.736	5.05	27.15	32.50	59.58	59.28	74.00	-14.72 peak
2	2390.000	5.05	27.16	32.50	55.16	54.87	74.00	-19.13 peak
3	2412.000	5.07	27.21	32.50	96.24	96.02	74.00	22.02 peak



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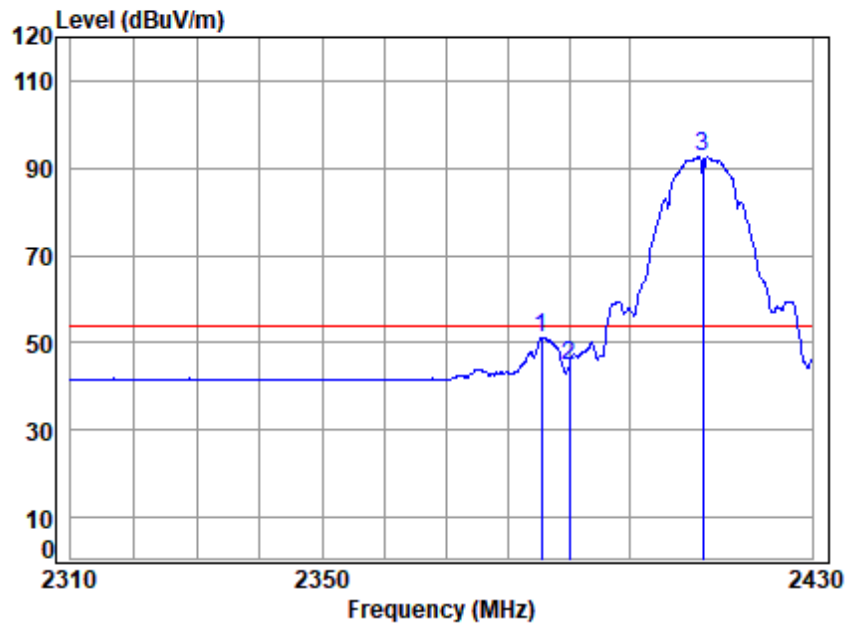
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Report No.: FYCR221200048801

Page: 24 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2385.494	5.05	27.15	32.50	51.45	51.15	54.00	-2.85	Average
2	2390.000	5.05	27.16	32.50	45.22	44.93	54.00	-9.07	Average
3	2412.000	5.07	27.21	32.50	92.91	92.69	54.00	38.69	Average



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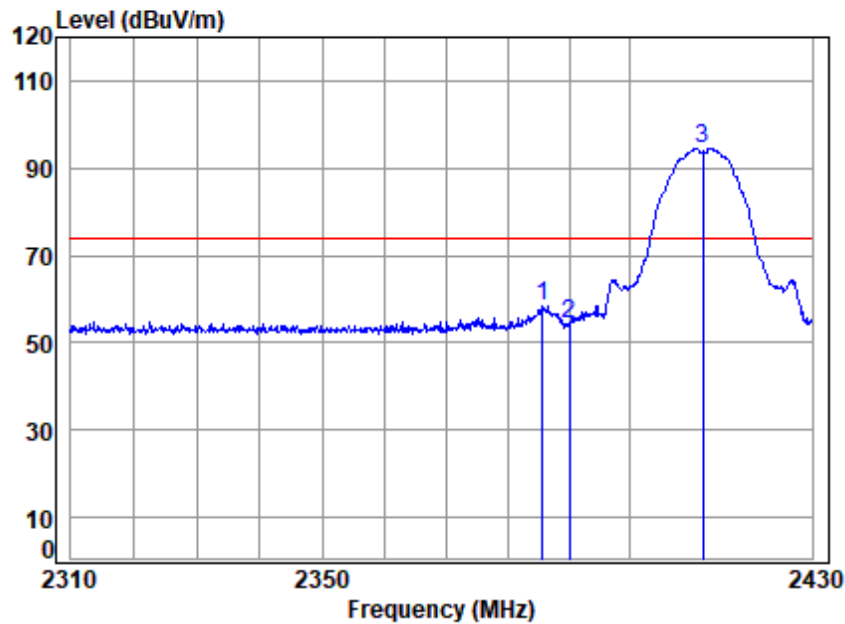
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Report No.: FYCR221200048801

Page: 25 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2385.615	5.05	27.15	32.50	58.92	58.62	74.00	-15.38	Peak
2	2390.000	5.05	27.16	32.50	54.72	54.43	74.00	-19.57	Peak
3	2412.000	5.07	27.21	32.50	94.75	94.53	74.00	20.53	Peak



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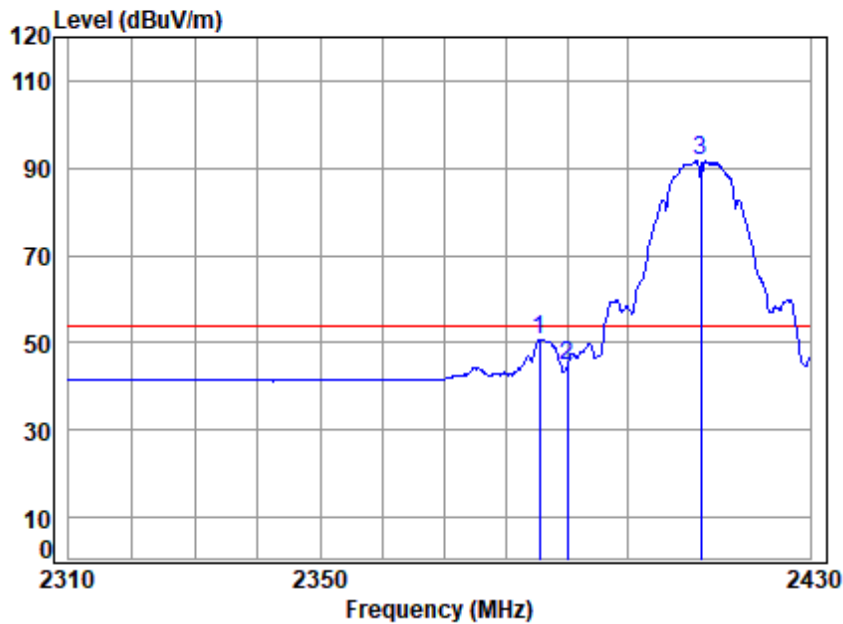
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Report No.: FYCR221200048801

Page: 26 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2385.494	5.05	27.15	32.50	50.91	50.61	54.00	-3.39 Average
2	2390.000	5.05	27.16	32.50	44.99	44.70	54.00	-9.30 Average
3	2412.000	5.07	27.21	32.50	91.86	91.64	54.00	37.64 Average



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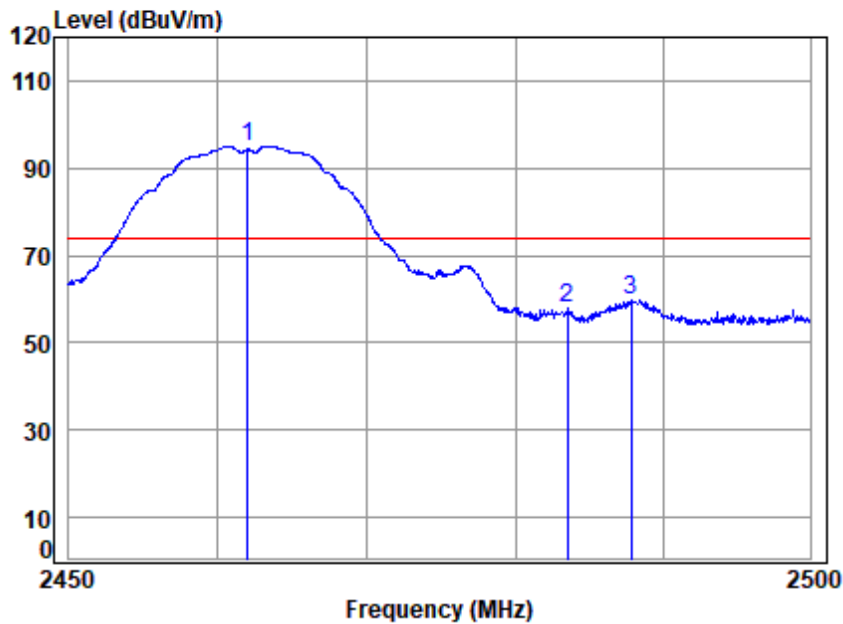
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Report No.: FYCR221200048801

Page: 27 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.000	5.10	27.32	32.50	95.20	95.12	74.00	21.12	peak
2	2483.500	5.12	27.36	32.50	57.95	57.93	74.00	-16.07	peak
3	2487.857	5.12	27.37	32.50	59.91	59.90	74.00	-14.10	peak



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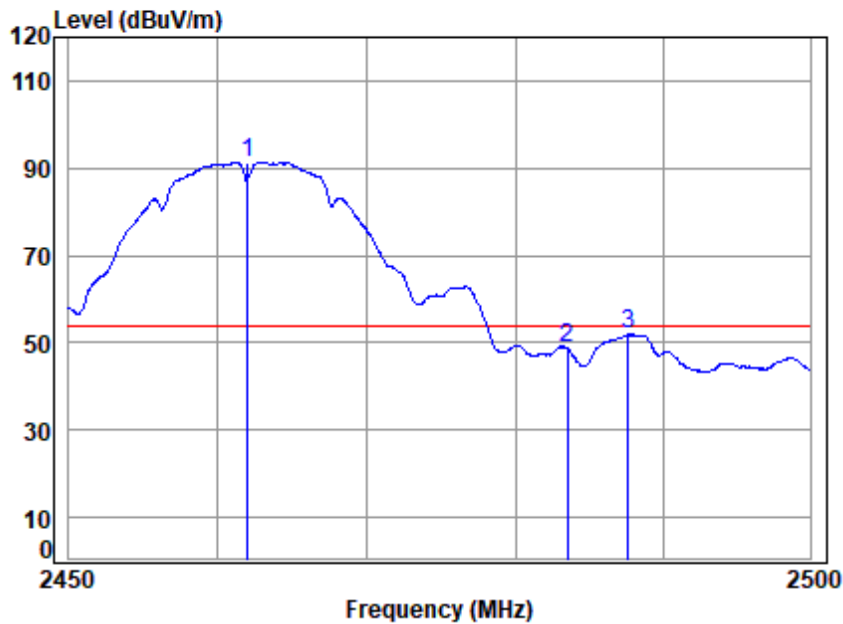
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Report No.: FYCR221200048801

Page: 28 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 2462.000	5.10	27.32	32.50	91.54	91.46	54.00	37.46	Average
2 2483.500	5.12	27.36	32.50	48.68	48.66	54.00	-5.34	Average
3 2487.656	5.12	27.37	32.50	51.86	51.85	54.00	-2.15	Average



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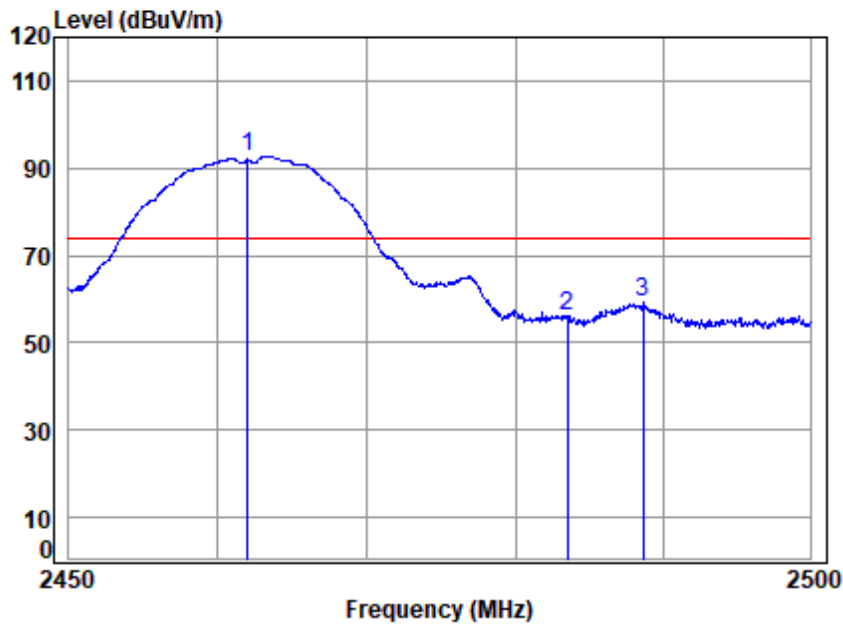
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 29 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 2462.000	5.10	27.32	32.50	92.64	92.56	74.00	18.56	Peak
2 2483.500	5.12	27.36	32.50	56.05	56.03	74.00	-17.97	Peak
3 2488.662	5.12	27.38	32.50	59.09	59.09	74.00	-14.91	Peak



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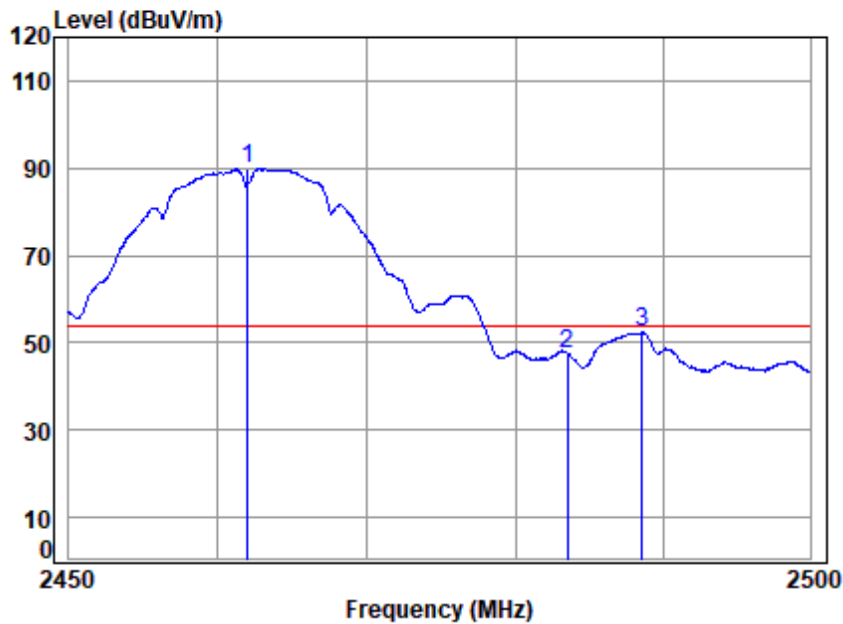
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 30 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 . 2462.000		5.10	27.32	32.50	89.90	89.82	54.00	35.82	Average
2 2483.500		5.12	27.36	32.50	47.61	47.59	54.00	-6.41	Average
3 2488.612		5.12	27.38	32.50	52.27	52.27	54.00	-1.73	Average



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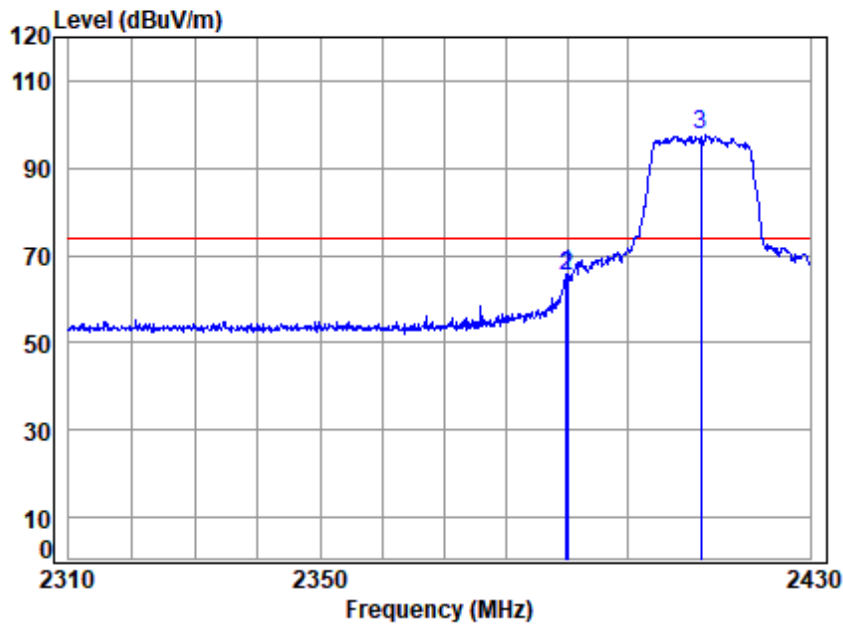
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 31 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.847	5.05	27.16	32.50	66.16	65.87	74.00	-8.13 peak
2	2390.000	5.05	27.16	32.50	65.50	65.21	74.00	-8.79 peak
3	2412.000	5.07	27.21	32.50	97.81	97.59	74.00	23.59 peak



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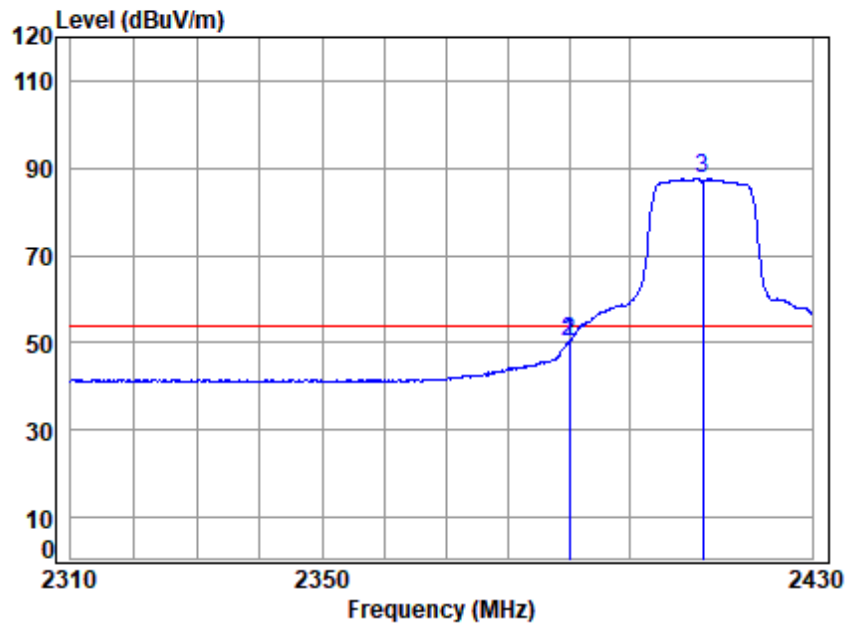
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 32 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.968	5.05	27.16	32.50	50.53	50.24	54.00	-3.76 Average
2	2390.000	5.05	27.16	32.50	50.53	50.24	54.00	-3.76 Average
3	2412.000	5.07	27.21	32.50	88.02	87.80	54.00	33.80 Average



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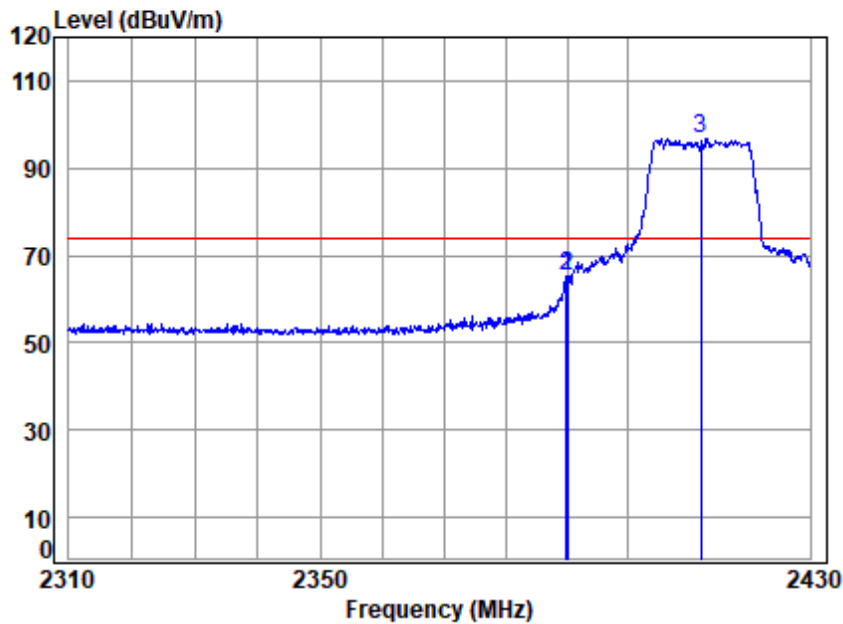
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Report No.: FYCR221200048801

Page: 33 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.847	5.05	27.16	32.50	65.59	65.30	74.00	-8.70 Peak
2	2390.000	5.05	27.16	32.50	65.47	65.18	74.00	-8.82 Peak
3	2412.000	5.07	27.21	32.50	96.90	96.68	74.00	22.68 Peak



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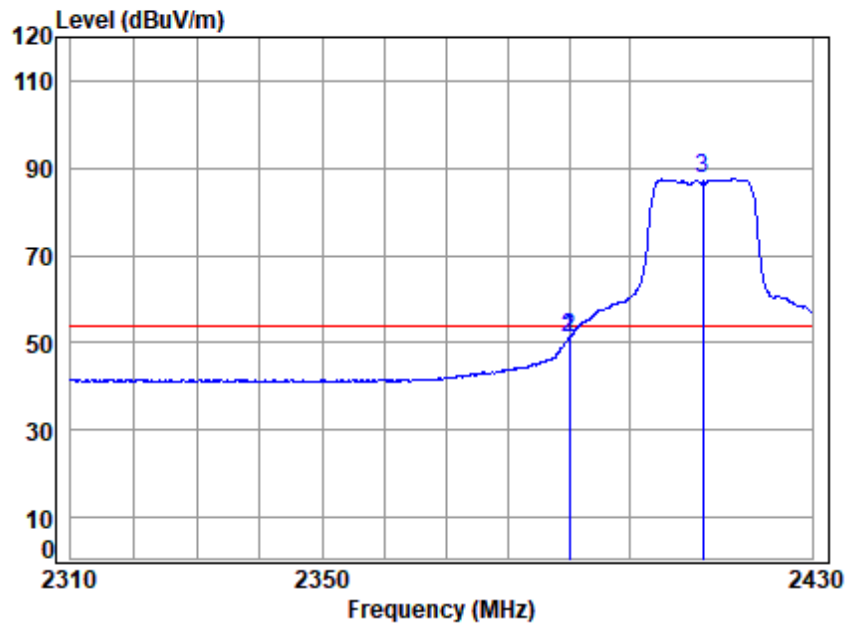
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Report No.: FYCR221200048801

Page: 34 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.968	5.05	27.16	32.50	51.50	51.21	54.00	-2.79 Average
2	2390.000	5.05	27.16	32.50	51.50	51.21	54.00	-2.79 Average
3	2412.000	5.07	27.21	32.50	87.84	87.62	54.00	33.62 Average



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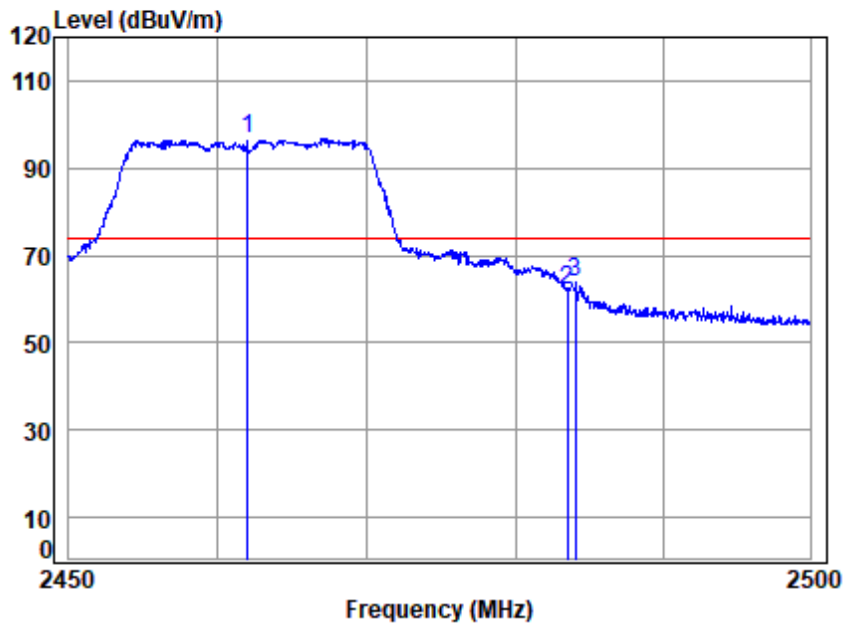
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 35 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 . 2462.000		5.10	27.32	32.50	96.82	96.74	74.00	22.74	peak
2 2483.500		5.12	27.36	32.50	62.28	62.26	74.00	-11.74	peak
3 2484.091		5.12	27.37	32.50	63.74	63.73	74.00	-10.27	peak



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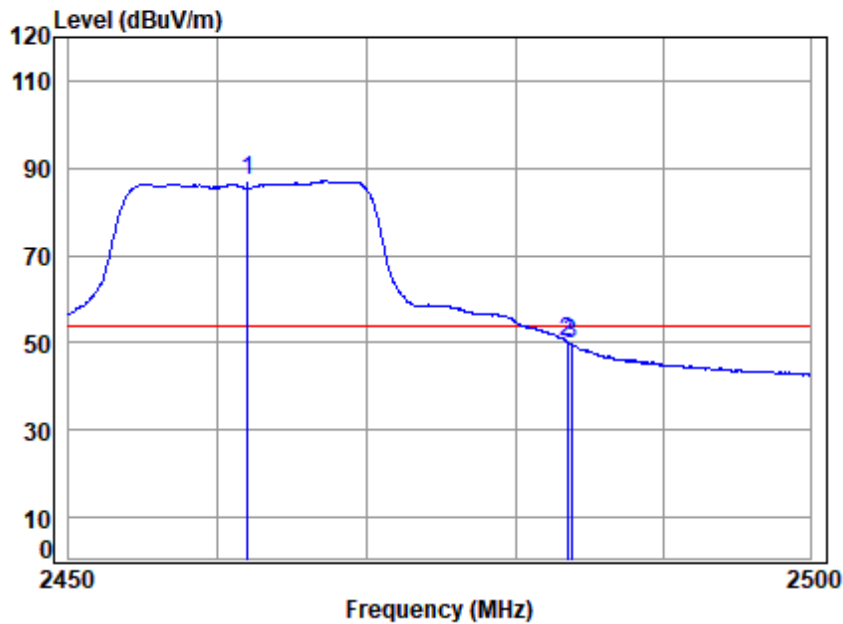
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 36 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.000	5.10	27.32	32.50	87.08	87.00	54.00	33.00	Average
2	2483.500	5.12	27.36	32.50	50.37	50.35	54.00	-3.65	Average
3	2483.790	5.12	27.37	32.50	49.77	49.76	54.00	-4.24	Average



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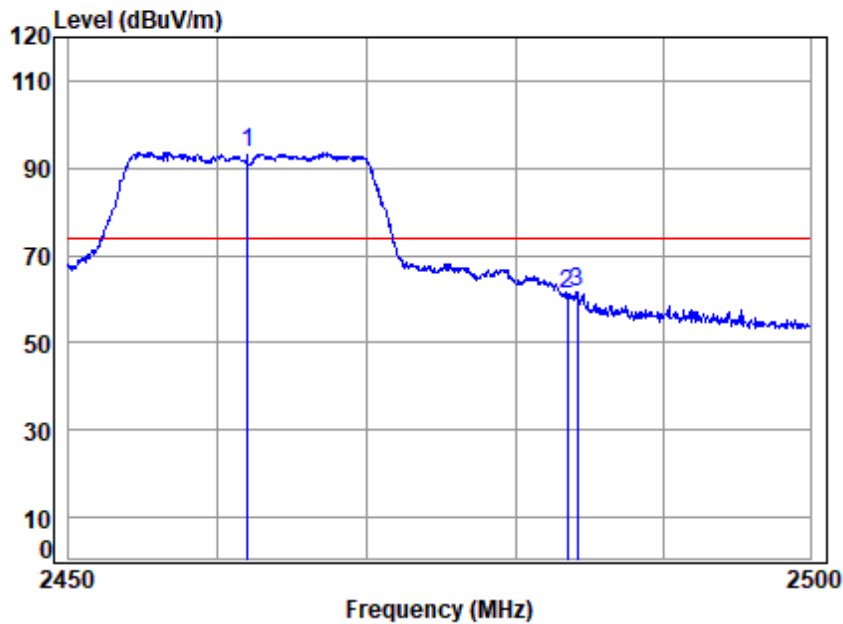
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 37 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 2462.000		5.10	27.32	32.50	93.60	93.52	74.00	19.52 Peak
2 2483.500		5.12	27.36	32.50	61.00	60.98	74.00	-13.02 Peak
3 2484.191		5.12	27.37	32.50	61.76	61.75	74.00	-12.25 Peak



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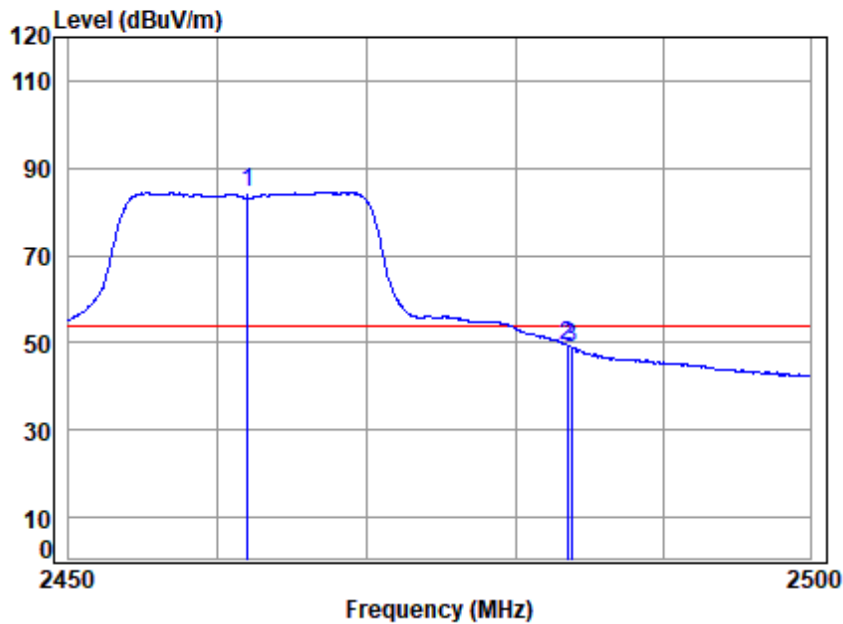
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 38 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.000	5.10	27.32	32.50	84.60	84.52	54.00	30.52	Average
2	2483.500	5.12	27.36	32.50	49.45	49.43	54.00	-4.57	Average
3	2483.790	5.12	27.37	32.50	48.93	48.92	54.00	-5.08	Average



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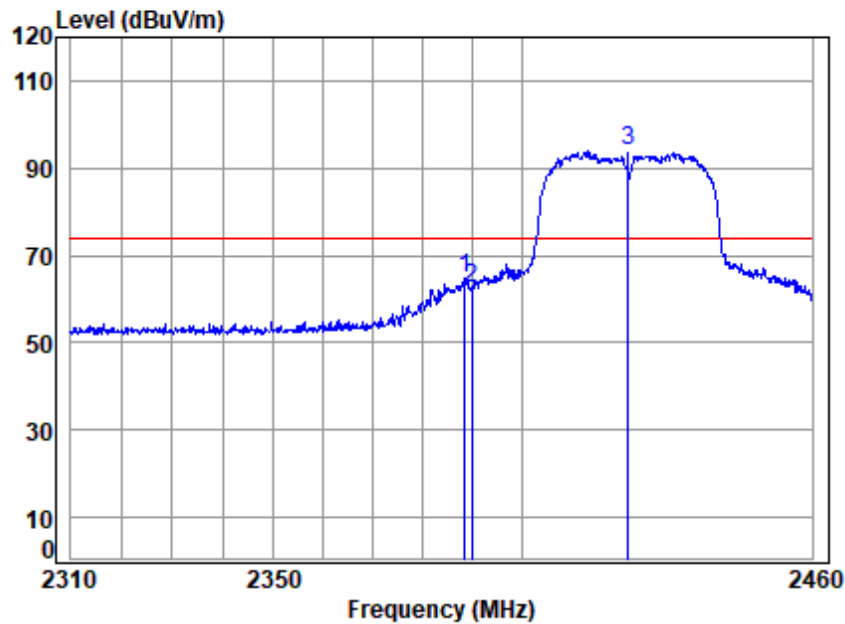
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 39 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.474	5.05	27.15	32.50	65.20	64.90	74.00	-9.10 peak
2	2390.000	5.05	27.16	32.50	62.98	62.69	74.00	-11.31 peak
3	2422.000	5.08	27.23	32.50	94.04	93.85	74.00	19.85 peak



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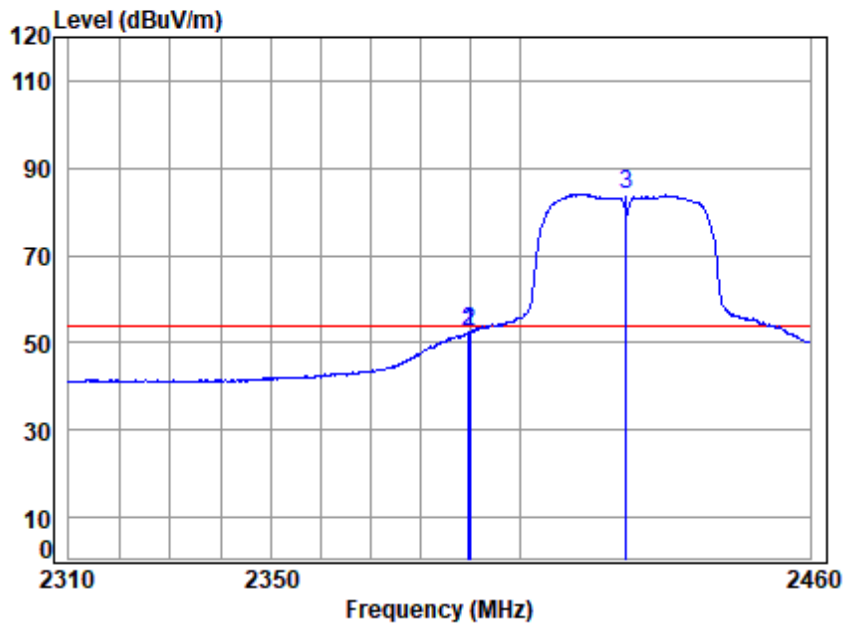
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 40 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.677	5.05	27.16	32.50	52.58	52.29	54.00	-1.71 Average
2	2390.000	5.05	27.16	32.50	52.77	52.48	54.00	-1.52 Average
3	2422.000	5.08	27.23	32.50	84.35	84.16	54.00	30.16 Average



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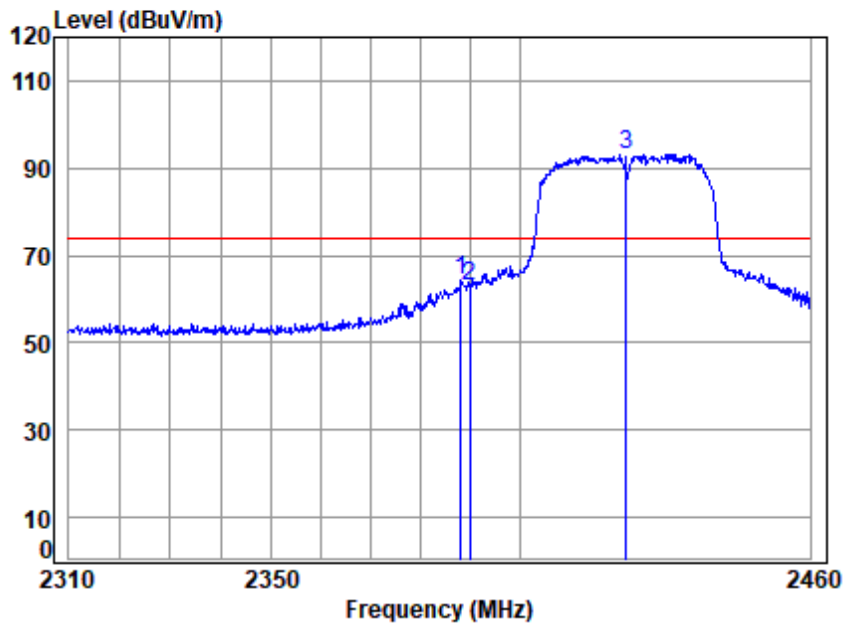
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 41 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.174	5.05	27.15	32.50	64.76	64.46	74.00	-9.54	Peak
2	2390.000	5.05	27.16	32.50	63.47	63.18	74.00	-10.82	Peak
3	2422.000	5.08	27.23	32.50	93.45	93.26	74.00	19.26	Peak



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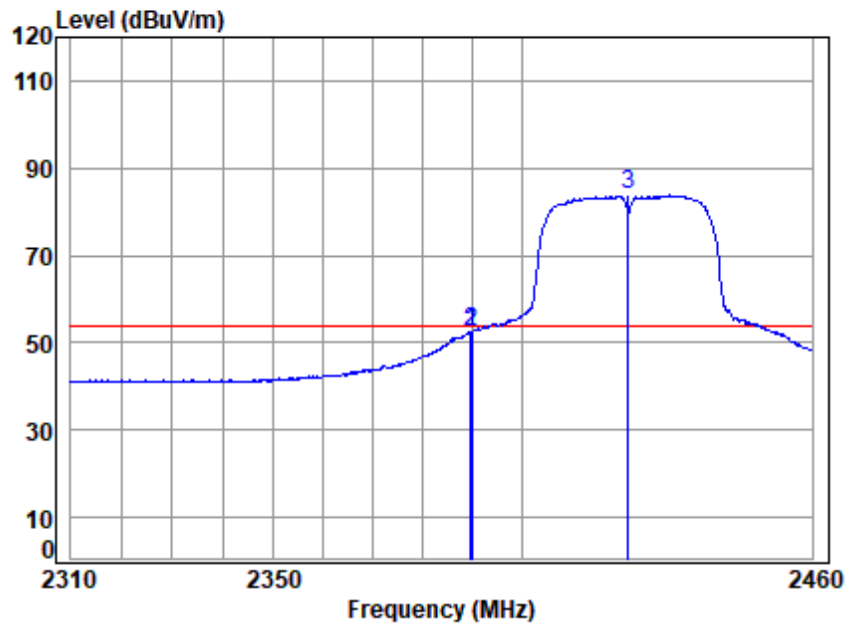
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Report No.: FYCR221200048801

Page: 42 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.677	5.05	27.16	32.50	52.92	52.63	54.00	-1.37 Average
2	2390.000	5.05	27.16	32.50	52.87	52.58	54.00	-1.42 Average
3	2422.000	5.08	27.23	32.50	83.94	83.75	54.00	29.75 Average



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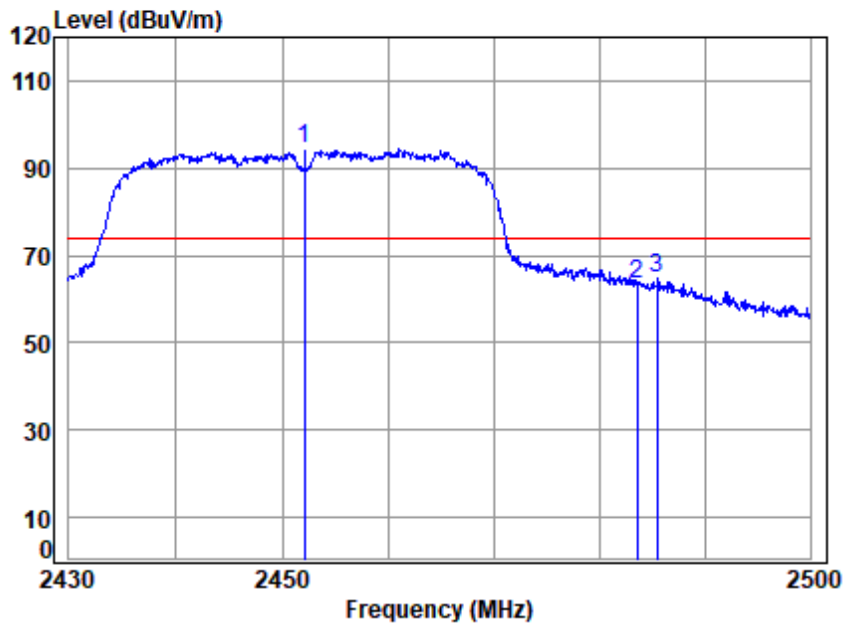
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Report No.: FYCR221200048801

Page: 43 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 2452.000		5.10	27.30	32.50	94.44	94.34	74.00	20.34 peak
2 2483.500		5.12	27.36	32.50	63.62	63.60	74.00	-10.40 peak
3 2485.417		5.12	27.37	32.50	64.65	64.64	74.00	-9.36 peak



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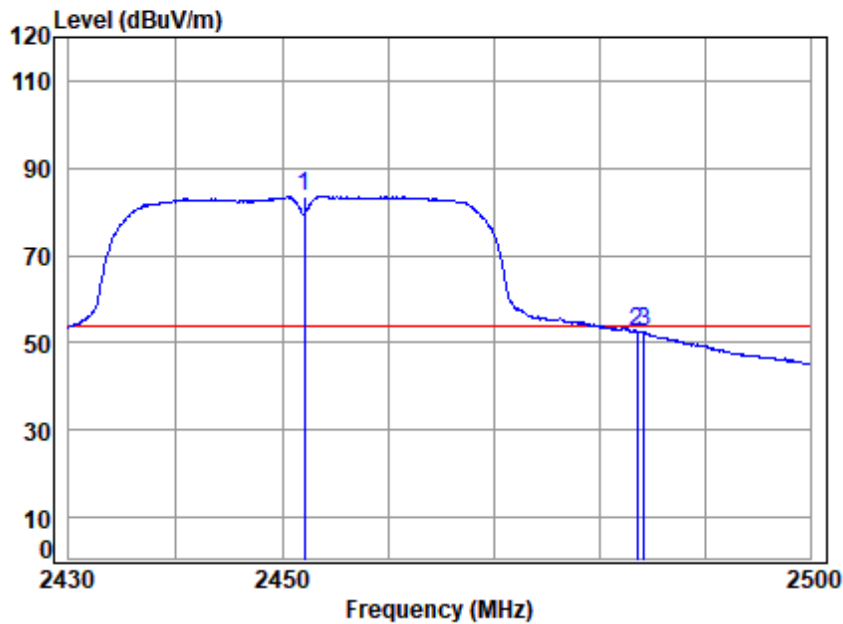
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 44 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 . 2452.000		5.10	27.30	32.50	83.63	83.53	54.00	29.53	Average
2 2483.500		5.12	27.36	32.50	52.56	52.54	54.00	-1.46	Average
3 2484.147		5.12	27.37	32.50	52.43	52.42	54.00	-1.58	Average



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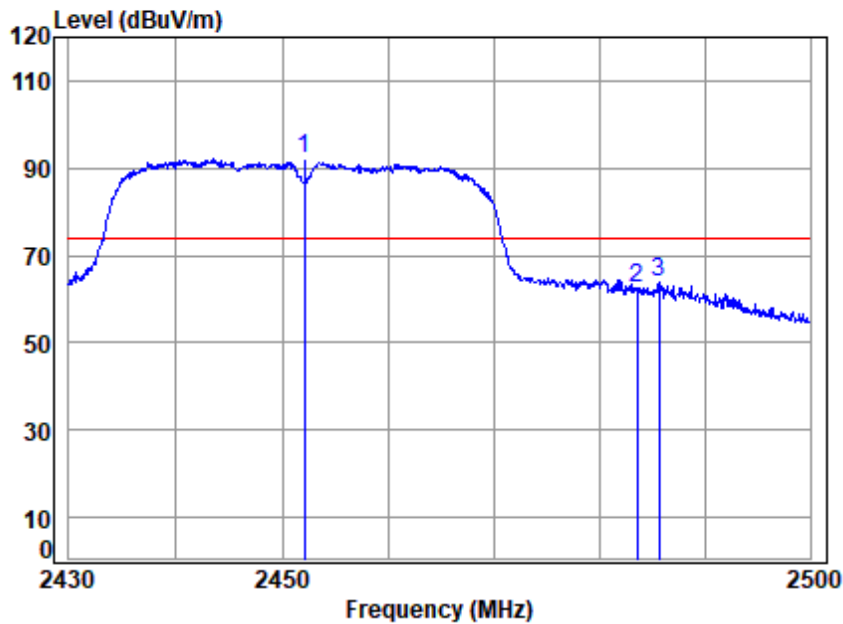
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 45 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2452.000	5.10	27.30	32.50	92.26	92.16	74.00	18.16	Peak
2	2483.500	5.12	27.36	32.50	62.56	62.54	74.00	-11.46	Peak
3	2485.558	5.12	27.37	32.50	63.95	63.94	74.00	-10.06	Peak



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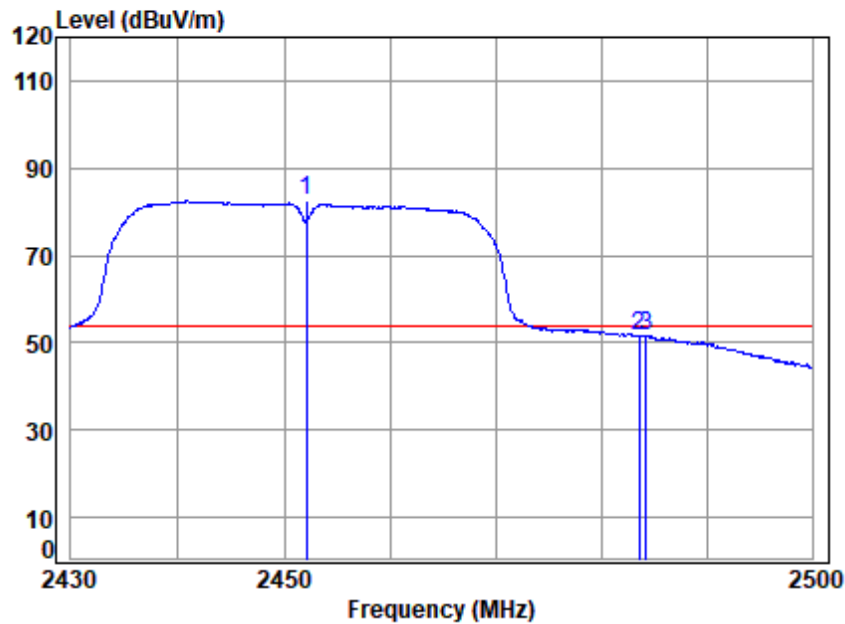
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 46 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2452.000	5.10	27.30	32.50	82.59	82.49	54.00	28.49	Average
2	2483.500	5.12	27.36	32.50	51.65	51.63	54.00	-2.37	Average
3	2484.147	5.12	27.37	32.50	51.71	51.70	54.00	-2.30	Average



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 47 of 118

7.7 Radiated Spurious Emissions Below 1GHz

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

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

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C

Humidity: 52.6 % RH

Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

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



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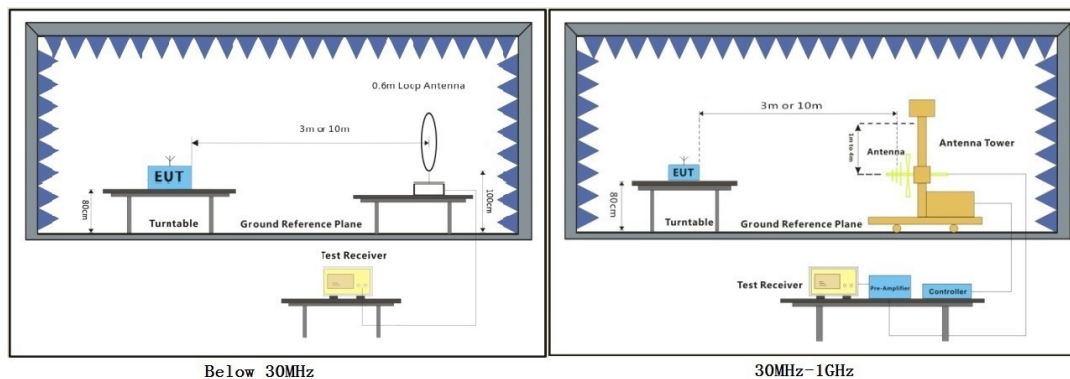
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 48 of 118

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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

Remark:

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



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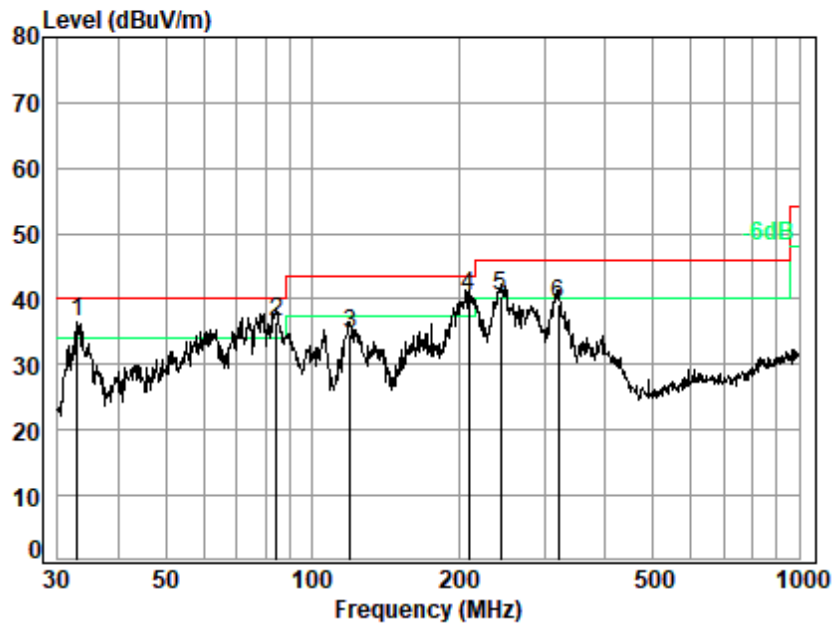
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 49 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 00

	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	32.864	0.19	15.23	25.90	46.95	36.47	40.00	-3.53	QP
2	84.405	0.58	13.96	25.81	47.76	36.49	40.00	-3.51	QP
3	119.436	0.98	15.66	25.69	43.70	34.65	43.50	-8.85	QP
4	210.048	0.73	15.53	25.33	49.45	40.38	43.50	-3.12	QP
5	243.377	0.83	16.53	25.23	48.19	40.32	46.00	-5.68	QP
6	321.061	1.23	19.29	25.12	43.98	39.38	46.00	-6.62	QP



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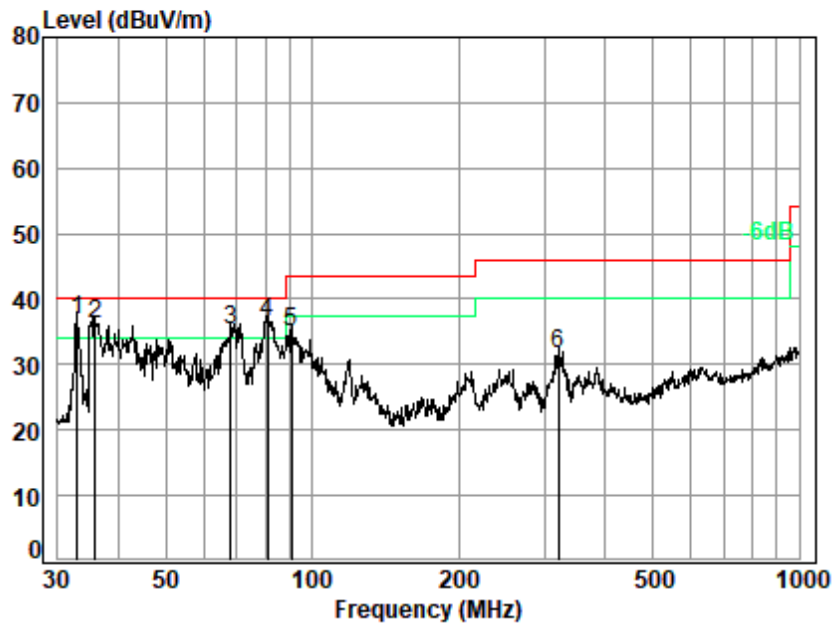
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 50 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 00

	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	32.864	0.19	15.23	25.90	47.42	36.94	40.00	-3.06	QP
2	35.749	0.19	15.82	25.89	46.13	36.25	40.00	-3.75	QP
3	67.913	0.29	16.37	25.83	44.54	35.37	40.00	-4.63	QP
4	80.927	0.49	14.36	25.82	47.34	36.37	40.00	-3.63	QP
5	90.537	0.68	13.67	25.81	46.57	35.11	43.50	-8.39	QP
6	321.061	1.23	19.29	25.12	36.20	31.60	46.00	-14.40	QP



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 51 of 118

7.8 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

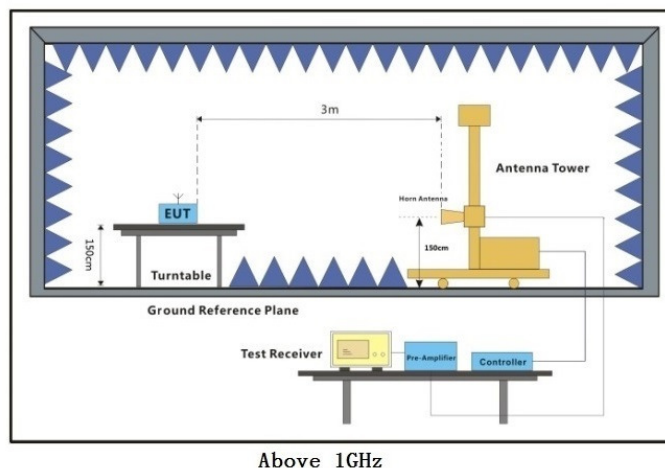
Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

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

7.8.3 Test Setup Diagram



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 52 of 118

7.8.4 Measurement Procedure and Data

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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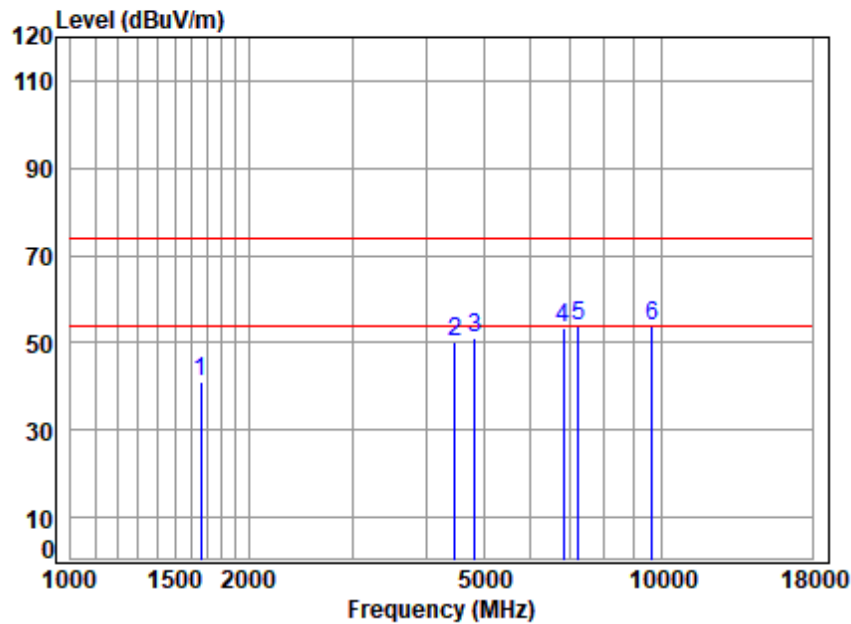
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 53 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2412 TX RSE
: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	4.11	24.92	52.94	64.78	40.87	74.00	-33.13	peak
2	4469.214	7.47	30.16	52.95	65.57	50.25	74.00	-23.75	peak
3	4824.000	8.02	30.99	53.05	65.20	51.16	74.00	-22.84	peak
4	6835.278	8.03	35.41	53.39	63.49	53.54	74.00	-20.46	peak
5	7236.000	8.31	36.09	53.52	62.82	53.70	74.00	-20.30	peak
6	9648.000	11.38	37.62	53.54	58.23	53.69	74.00	-20.31	peak



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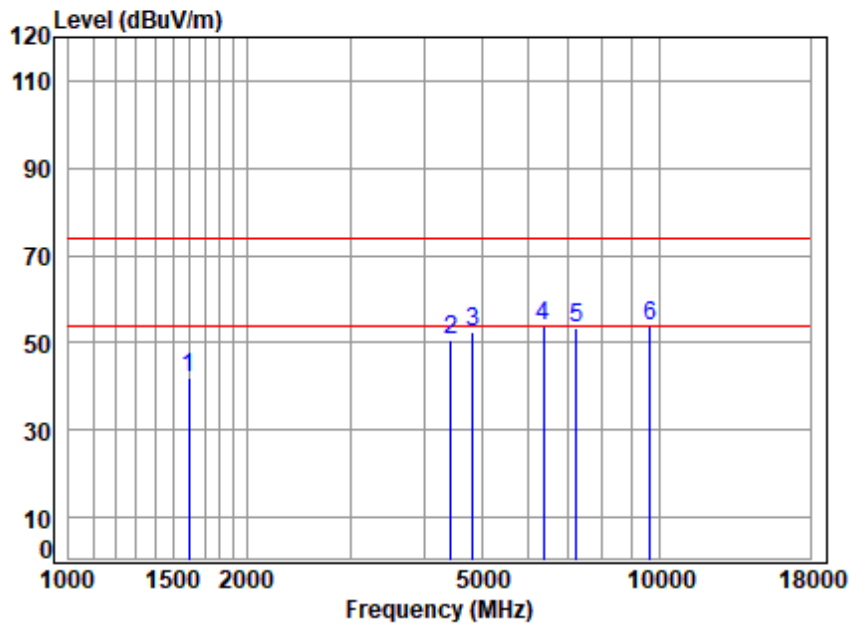
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 54 of 118

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00488AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.98	24.79	52.91	65.96	41.82	74.00	-32.18	peak
2	4430.628	7.47	30.11	52.94	65.92	50.56	74.00	-23.44	peak
3	4824.000	8.02	30.99	53.05	66.58	52.54	74.00	-21.46	peak
4	6377.195	7.69	34.08	53.08	65.13	53.82	74.00	-20.18	peak
5	7236.000	8.31	36.09	53.52	62.41	53.29	74.00	-20.71	peak
6	9648.000	11.38	37.62	53.54	58.36	53.82	74.00	-20.18	peak



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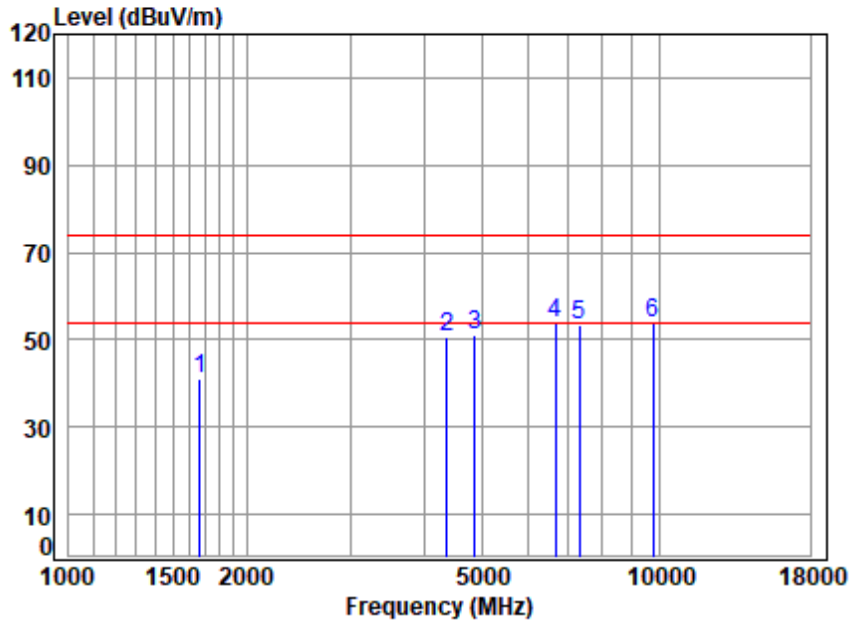
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 55 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2437 TX RSE
: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.951	4.13	24.94	52.94	65.16	41.29	74.00	-32.71	peak
2	4367.058	7.48	30.02	52.92	66.11	50.69	74.00	-23.31	peak
3	4874.000	8.10	31.11	53.07	64.89	51.03	74.00	-22.97	peak
4	6679.040	7.88	35.04	53.29	64.12	53.75	74.00	-20.25	peak
5	7311.000	8.34	36.18	53.53	62.38	53.37	74.00	-20.63	peak
6	9748.000	11.30	37.84	53.44	57.92	53.62	74.00	-20.38	peak



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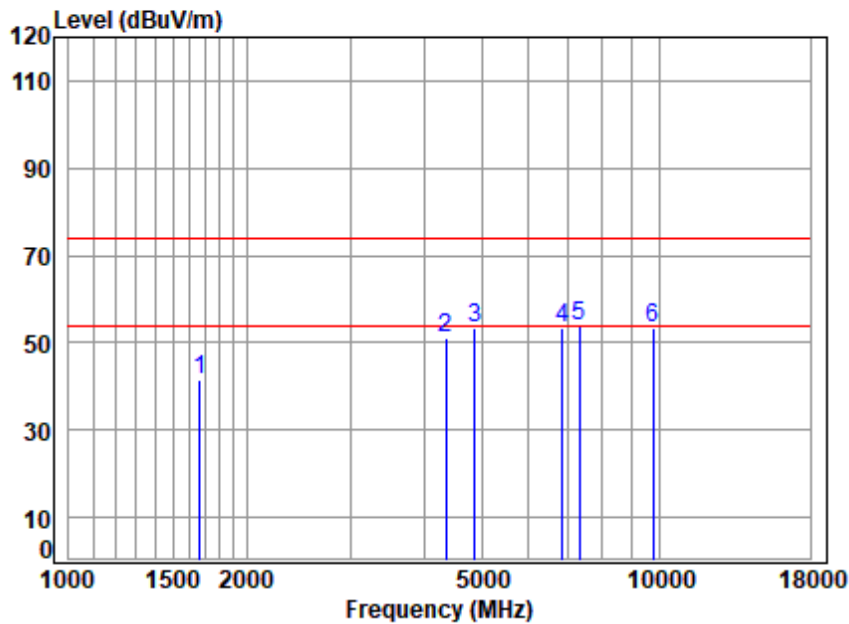
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 56 of 118

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00488AT

Mode : 2437 TX RSE

: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.951	4.13	24.94	52.94	65.32	41.45	74.00	-32.55	peak
2	4354.454	7.48	30.00	52.91	66.61	51.18	74.00	-22.82	peak
3	4874.000	8.10	31.11	53.07	67.37	53.51	74.00	-20.49	peak
4	6855.063	8.05	35.46	53.40	63.12	53.23	74.00	-20.77	peak
5	7311.000	8.34	36.18	53.53	63.00	53.99	74.00	-20.01	peak
6	9748.000	11.30	37.84	53.44	57.69	53.39	74.00	-20.61	peak



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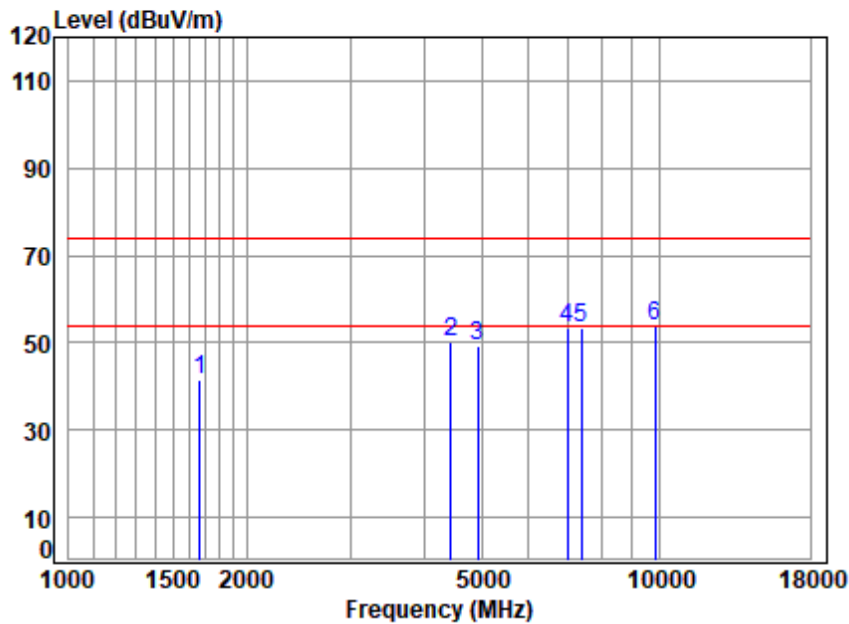
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 57 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2462 TX RSE
: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.951	4.13	24.94	52.94	65.44	41.57	74.00	-32.43	peak
2	4430.628	7.47	30.11	52.94	65.69	50.33	74.00	-23.67	peak
3	4924.000	8.18	31.23	53.08	62.90	49.23	74.00	-24.77	peak
4	6995.172	8.19	35.79	53.50	62.95	53.43	74.00	-20.57	peak
5	7386.000	8.38	36.27	53.54	62.49	53.60	74.00	-20.40	peak
6	9848.000	11.23	38.07	53.35	57.97	53.92	74.00	-20.08	peak



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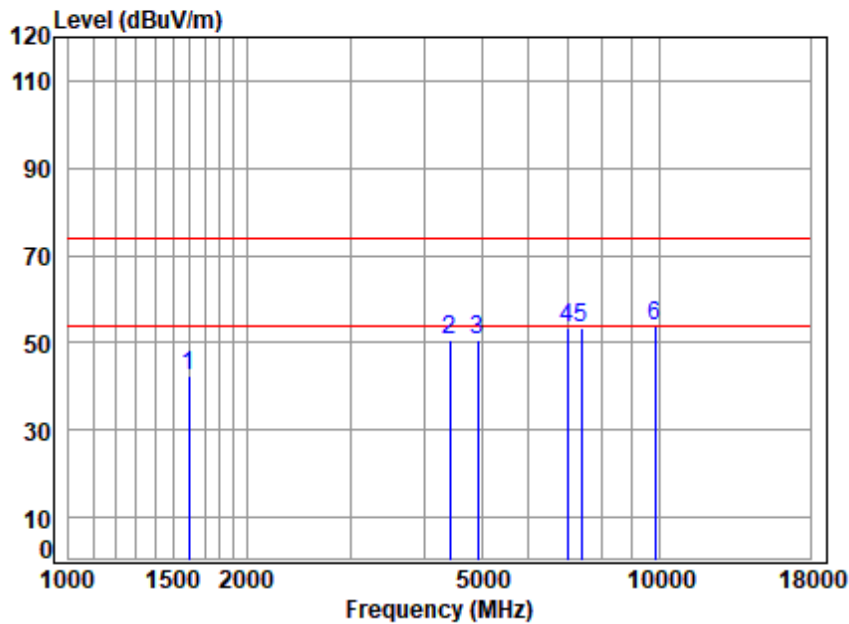
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 58 of 118

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00488AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.98	24.79	52.91	66.40	42.26	74.00	-31.74	peak
2	4417.841	7.47	30.09	52.93	65.82	50.45	74.00	-23.55	peak
3	4924.000	8.18	31.23	53.08	64.32	50.65	74.00	-23.35	peak
4	6995.172	8.19	35.79	53.50	63.07	53.55	74.00	-20.45	peak
5	7386.000	8.38	36.27	53.54	62.29	53.40	74.00	-20.60	peak
6	9848.000	11.23	38.07	53.35	57.91	53.86	74.00	-20.14	peak



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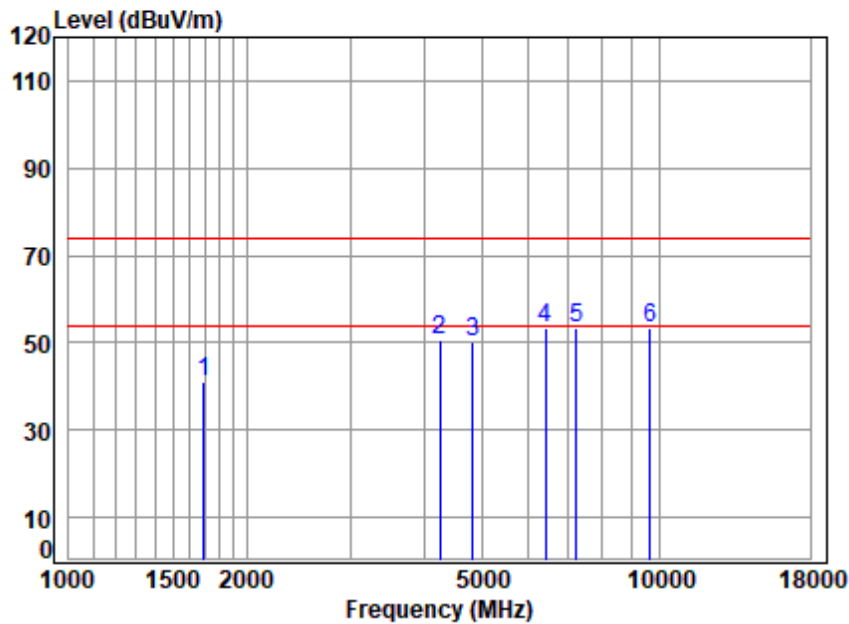
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 59 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2412 TX RSE
: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.231	4.18	24.99	52.96	64.84	41.05	74.00	-32.95	peak
2	4242.641	7.48	29.85	52.88	65.98	50.43	74.00	-23.57	peak
3	4824.000	8.02	30.99	53.05	64.19	50.15	74.00	-23.85	peak
4	6414.167	7.69	34.23	53.10	64.72	53.54	74.00	-20.46	peak
5	7236.000	8.31	36.09	53.52	62.68	53.56	74.00	-20.44	peak
6	9648.000	11.38	37.62	53.54	57.82	53.28	74.00	-20.72	peak



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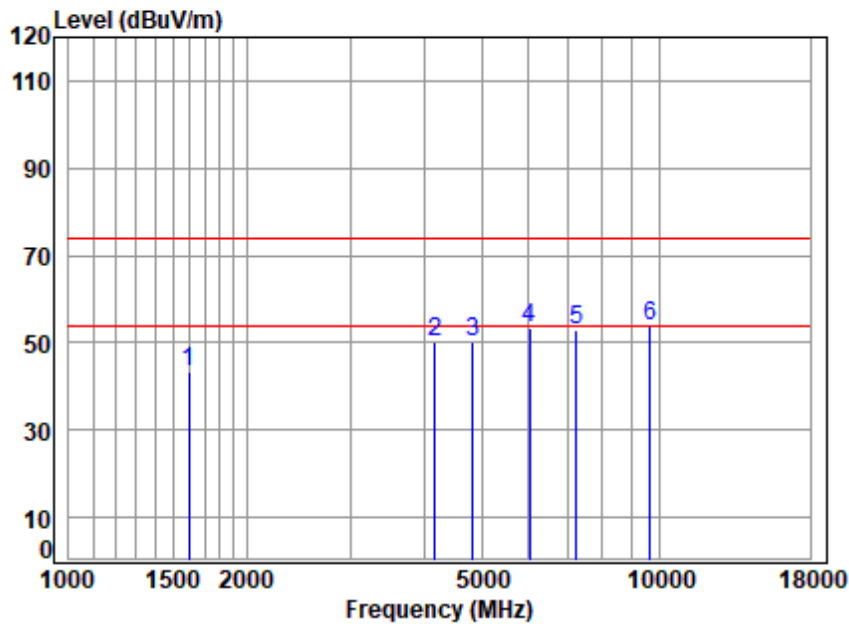
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 60 of 118

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00488AT

Mode : 2412 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.98	24.79	52.91	67.27	43.13	74.00	-30.87	peak
2	4169.698	7.48	29.75	52.86	65.91	50.28	74.00	-23.72	peak
3	4824.000	8.02	30.99	53.05	64.24	50.20	74.00	-23.80	peak
4	6018.999	7.64	32.49	52.81	66.01	53.33	74.00	-20.67	peak
5	7236.000	8.31	36.09	53.52	62.13	53.01	74.00	-20.99	peak
6	9648.000	11.38	37.62	53.54	58.26	53.72	74.00	-20.28	peak



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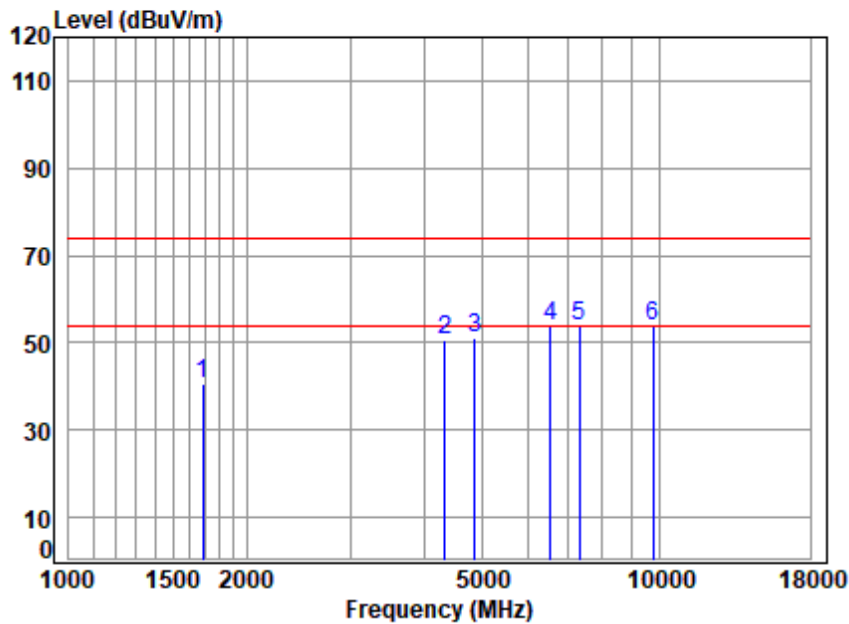
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 61 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2437 TX RSE
: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	4.17	24.98	52.95	64.34	40.54	74.00	-33.46	peak
2	4329.354	7.48	29.97	52.91	66.02	50.56	74.00	-23.44	peak
3	4874.000	8.10	31.11	53.07	65.15	51.29	74.00	-22.71	peak
4	6545.263	7.75	34.71	53.19	64.45	53.72	74.00	-20.28	peak
5	7311.000	8.34	36.18	53.53	62.63	53.62	74.00	-20.38	peak
6	9748.000	11.30	37.84	53.44	57.99	53.69	74.00	-20.31	peak



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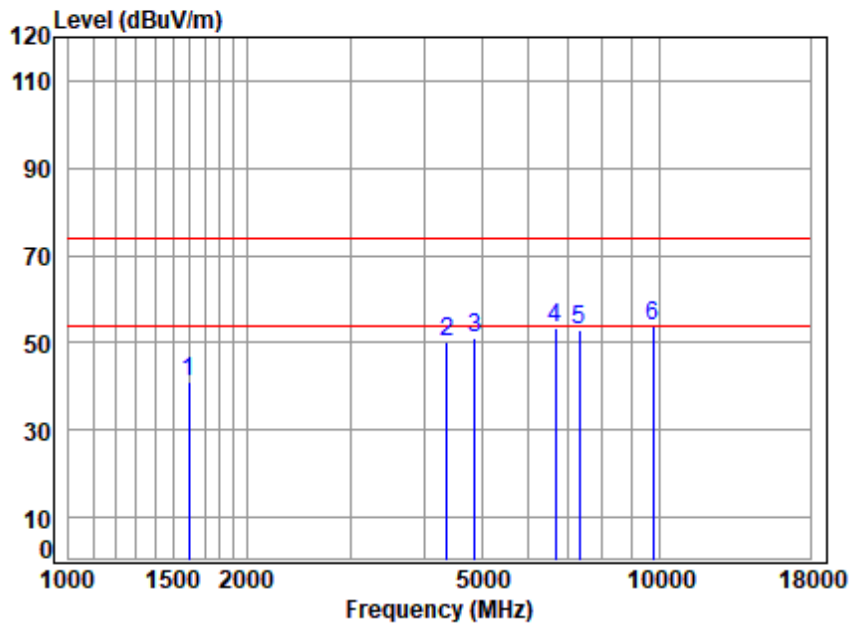
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 62 of 118

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00488AT

Mode : 2437 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.98	24.79	52.91	64.98	40.84	74.00	-33.16	peak
2	4367.058	7.48	30.02	52.92	65.80	50.38	74.00	-23.62	peak
3	4874.000	8.10	31.11	53.07	64.94	51.08	74.00	-22.92	peak
4	6679.040	7.88	35.04	53.29	63.78	53.41	74.00	-20.59	peak
5	7311.000	8.34	36.18	53.53	62.15	53.14	74.00	-20.86	peak
6	9748.000	11.30	37.84	53.44	57.98	53.68	74.00	-20.32	peak



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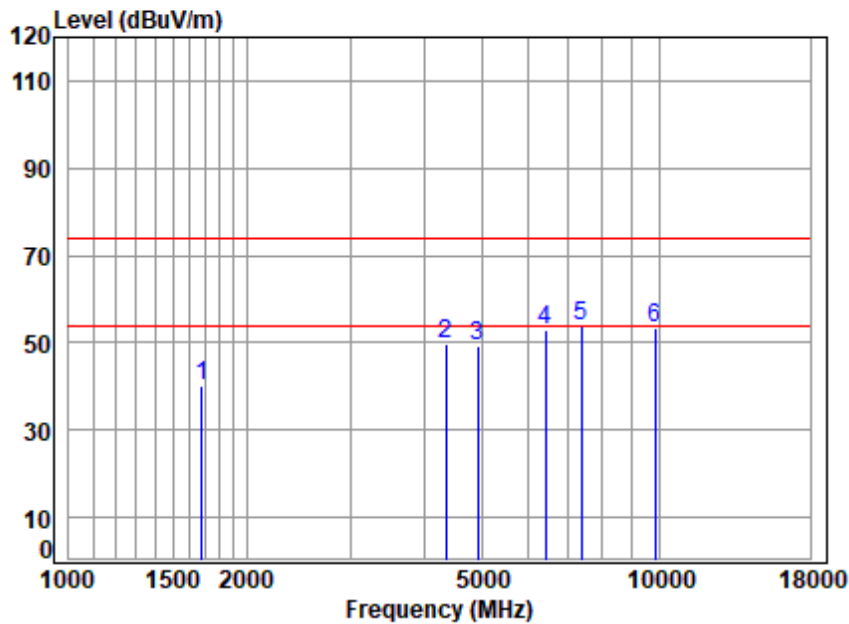
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 63 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2462 TX RSE
: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	4.15	24.96	52.95	64.04	40.20	74.00	-33.80	peak
2	4354.454	7.48	30.00	52.91	65.09	49.66	74.00	-24.34	peak
3	4924.000	8.18	31.23	53.08	63.02	49.35	74.00	-24.65	peak
4	6414.167	7.69	34.23	53.10	64.03	52.85	74.00	-21.15	peak
5	7386.000	8.38	36.27	53.54	62.86	53.97	74.00	-20.03	peak
6	9848.000	11.23	38.07	53.35	57.35	53.30	74.00	-20.70	peak



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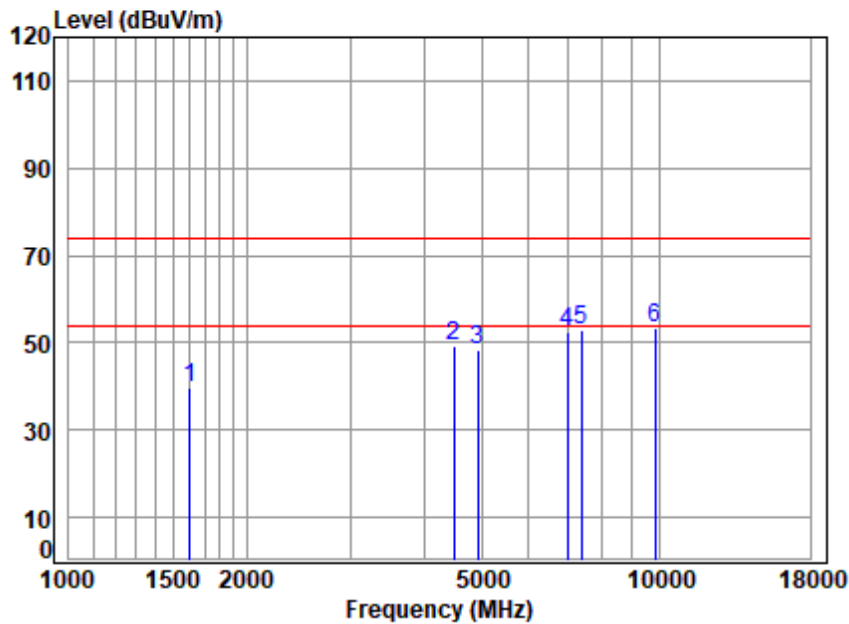
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 64 of 118

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00488AT

Mode : 2462 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.804	3.99	24.80	52.91	63.69	39.57	74.00	-34.43	peak
2	4482.150	7.47	30.18	52.95	64.40	49.10	74.00	-24.90	peak
3	4924.000	8.18	31.23	53.08	61.81	48.14	74.00	-25.86	peak
4	6995.172	8.19	35.79	53.50	62.19	52.67	74.00	-21.33	peak
5	7386.000	8.38	36.27	53.54	61.60	52.71	74.00	-21.29	peak
6	9848.000	11.23	38.07	53.35	57.43	53.38	74.00	-20.62	peak



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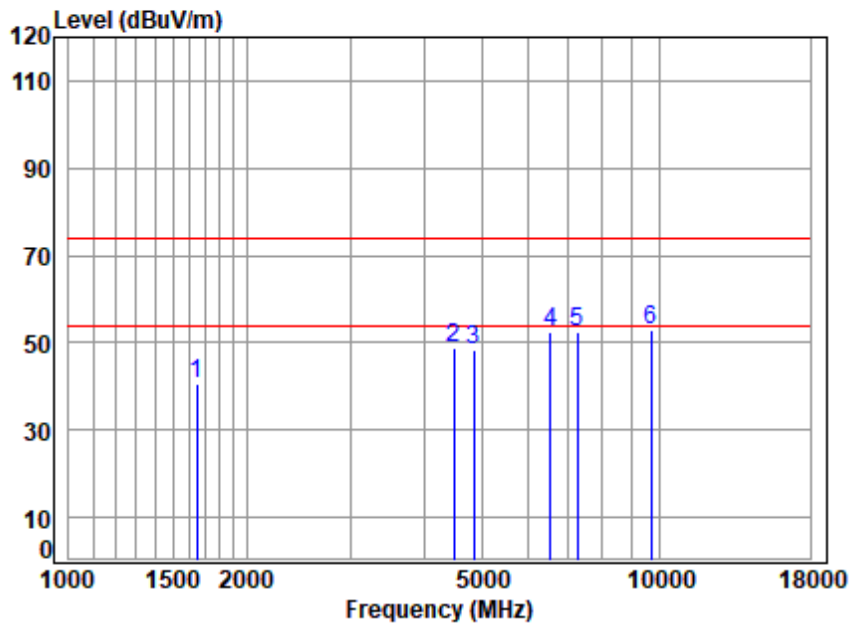
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 65 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2422 TX RSE
: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	4.09	24.90	52.93	64.53	40.59	74.00	-33.41	peak
2	4482.150	7.47	30.18	52.95	64.29	48.99	74.00	-25.01	peak
3	4844.000	8.05	31.04	53.06	62.49	48.52	74.00	-25.48	peak
4	6545.263	7.75	34.71	53.19	63.13	52.40	74.00	-21.60	peak
5	7266.000	8.32	36.12	53.53	61.37	52.28	74.00	-21.72	peak
6	9688.000	11.35	37.71	53.50	57.55	53.11	74.00	-20.89	peak



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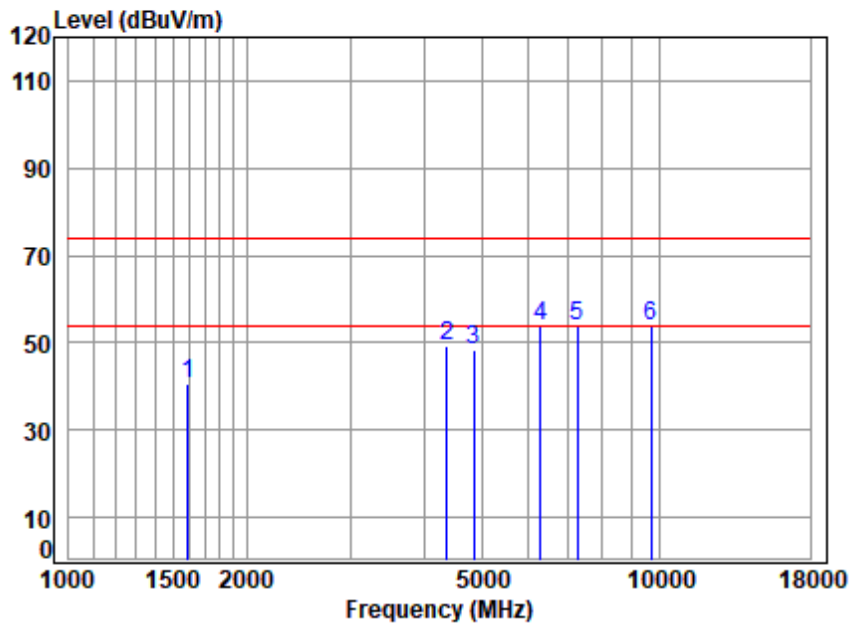
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 66 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 2422 TX RSE
: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	3.97	24.78	52.90	64.73	40.58	74.00	-33.42	peak
2	4367.058	7.48	30.02	52.92	64.75	49.33	74.00	-24.67	peak
3	4844.000	8.05	31.04	53.06	62.24	48.27	74.00	-25.73	peak
4	6303.890	7.68	33.76	53.02	65.31	53.73	74.00	-20.27	peak
5	7266.000	8.32	36.12	53.53	63.03	53.94	74.00	-20.06	peak
6	9688.000	11.35	37.71	53.50	58.15	53.71	74.00	-20.29	peak



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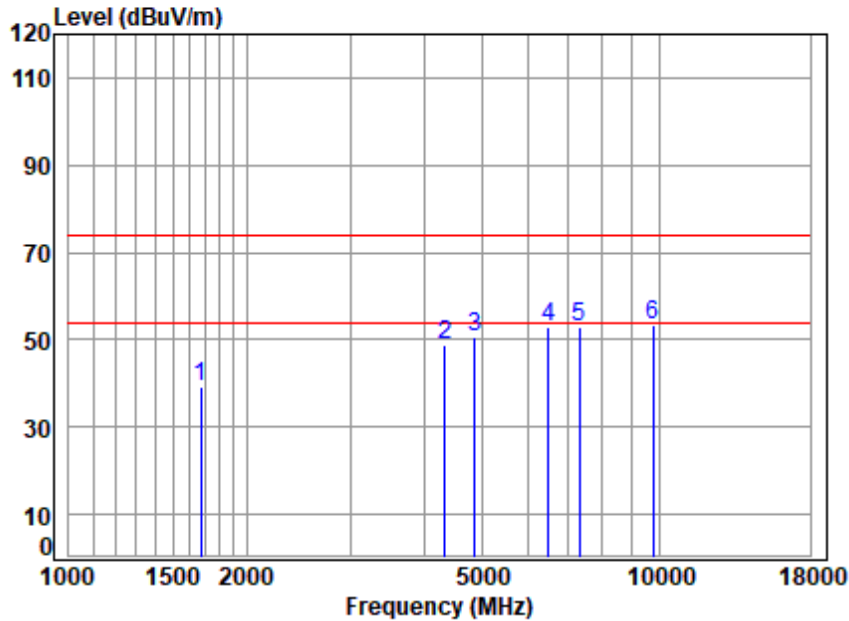
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 67 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	4.14	24.95	52.95	63.04	39.18	74.00	-34.82	peak
2	4341.886	7.48	29.99	52.91	64.34	48.90	74.00	-25.10	peak
3	4874.000	8.10	31.11	53.07	64.44	50.58	74.00	-23.42	peak
4	6488.754	7.70	34.55	53.16	63.71	52.80	74.00	-21.20	peak
5	7311.000	8.34	36.18	53.53	61.77	52.76	74.00	-21.24	peak
6	9748.000	11.30	37.84	53.44	57.55	53.25	74.00	-20.75	peak



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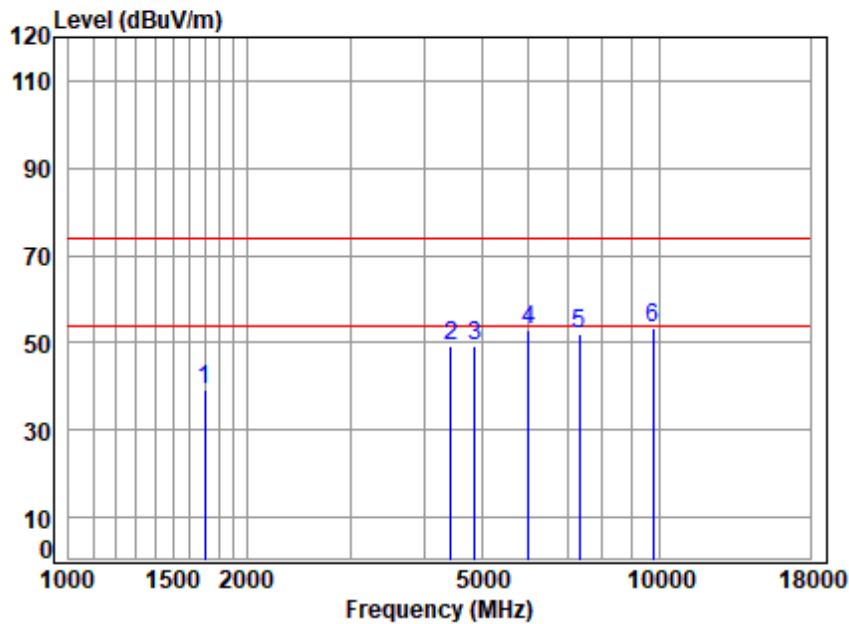
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 68 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	4.20	25.01	52.96	63.20	39.45	74.00	-34.55	peak
2	4430.628	7.47	30.11	52.94	64.86	49.50	74.00	-24.50	peak
3	4874.000	8.10	31.11	53.07	63.10	49.24	74.00	-24.76	peak
4	6001.626	7.64	32.41	52.80	65.55	52.80	74.00	-21.20	peak
5	7311.000	8.34	36.18	53.53	61.20	52.19	74.00	-21.81	peak
6	9748.000	11.30	37.84	53.44	57.87	53.57	74.00	-20.43	peak



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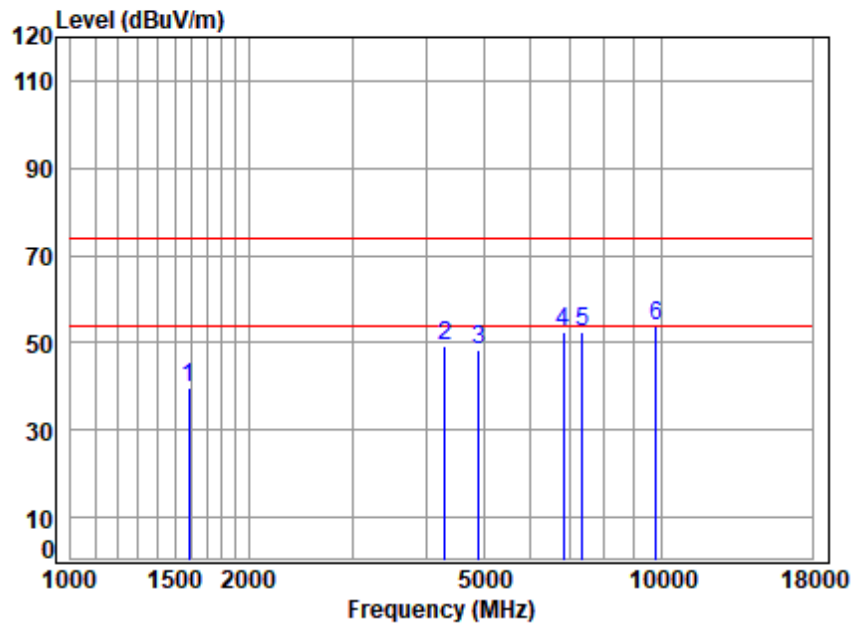
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 69 of 118

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00488AT
Mode : 2452 TX RSE
: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	3.95	24.75	52.90	63.74	39.54	74.00	-34.46	peak
2	4304.400	7.48	29.94	52.90	64.61	49.13	74.00	-24.87	peak
3	4904.000	8.15	31.18	53.07	62.29	48.55	74.00	-25.45	peak
4	6815.551	8.01	35.37	53.38	62.53	52.53	74.00	-21.47	peak
5	7356.000	8.36	36.23	53.54	61.61	52.66	74.00	-21.34	peak
6	9808.000	11.26	37.98	53.38	58.00	53.86	74.00	-20.14	peak



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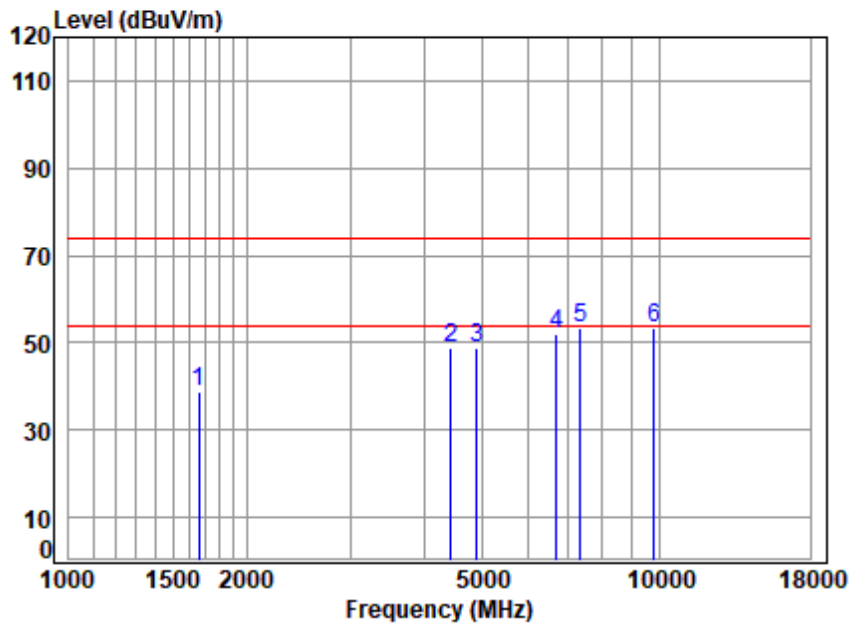
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 70 of 118

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



Site : chamber
Condition: 3m VERTICAL
Job No : 00488AT
Mode : 2452 TX RSE
: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	4.12	24.93	52.94	62.77	38.88	74.00	-35.12	peak
2	4430.628	7.47	30.11	52.94	64.14	48.78	74.00	-25.22	peak
3	4904.000	8.15	31.18	53.07	62.46	48.72	74.00	-25.28	peak
4	6698.373	7.90	35.09	53.30	62.24	51.93	74.00	-22.07	peak
5	7356.000	8.36	36.23	53.54	62.28	53.33	74.00	-20.67	peak
6	9808.000	11.26	37.98	53.38	57.48	53.34	74.00	-20.66	peak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2212000488AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2212000488AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	Tx Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00



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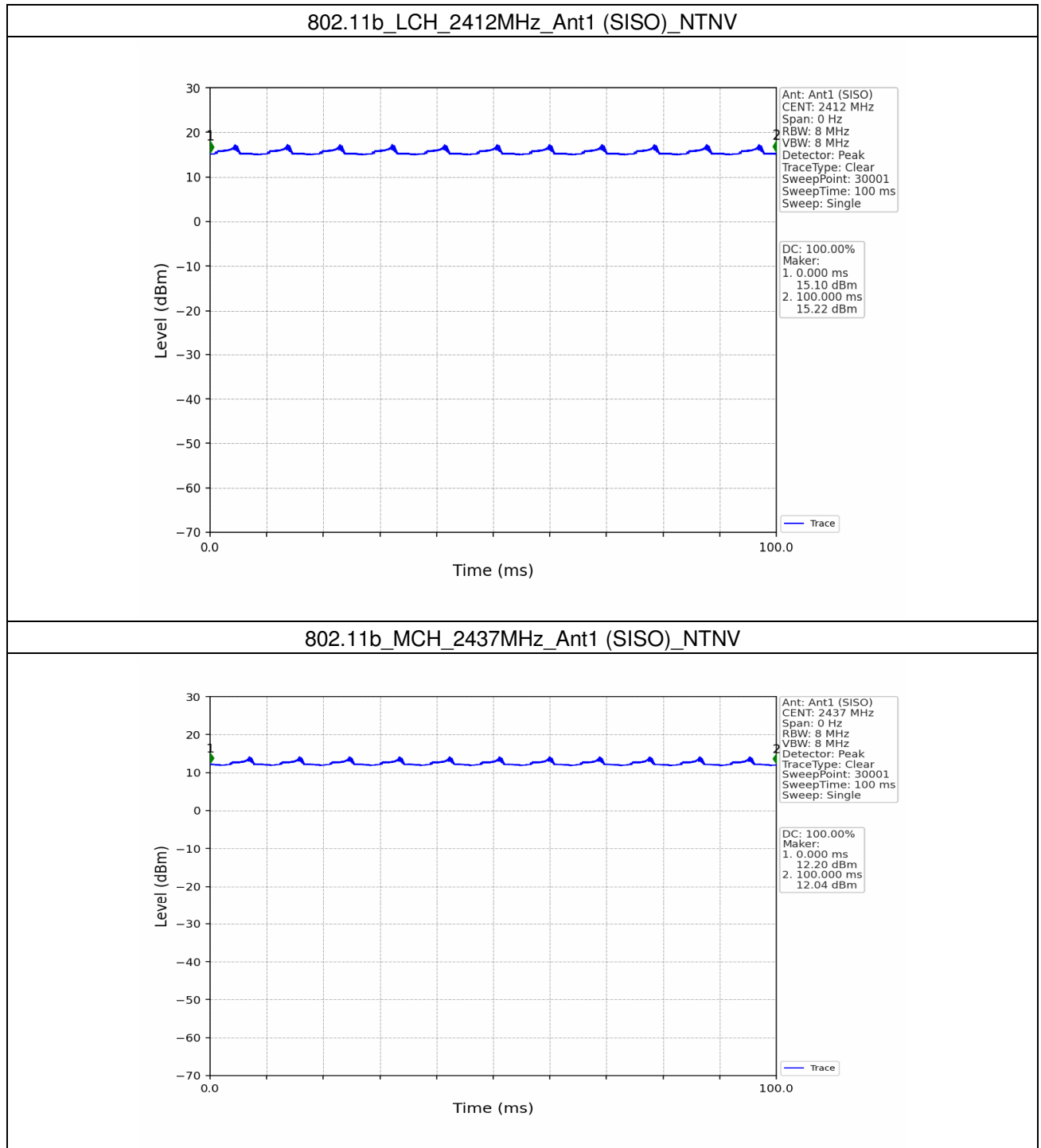
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Report No.: FYCR221200048801

Page: 73 of 118

1.1.2 Test Graph



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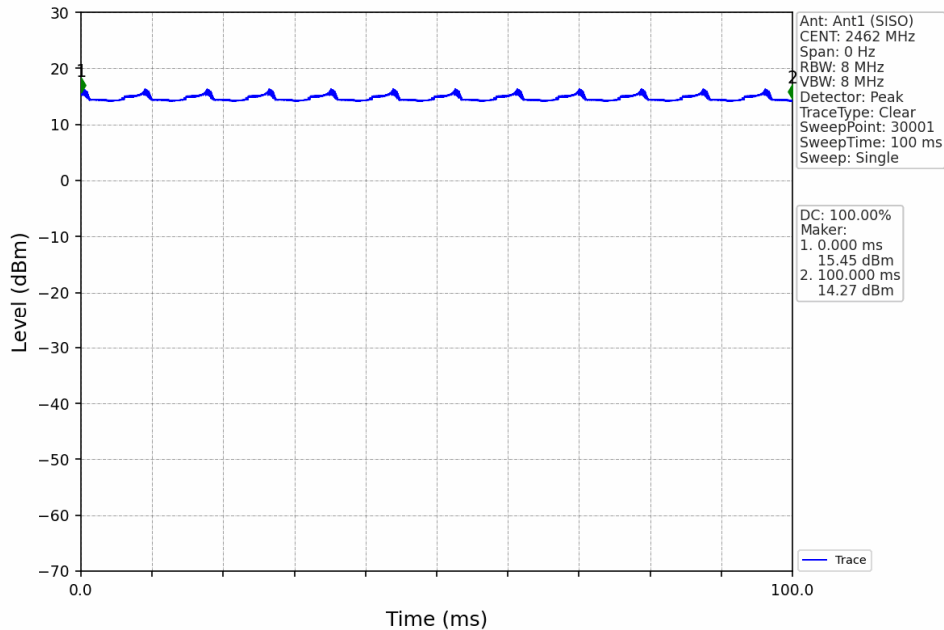
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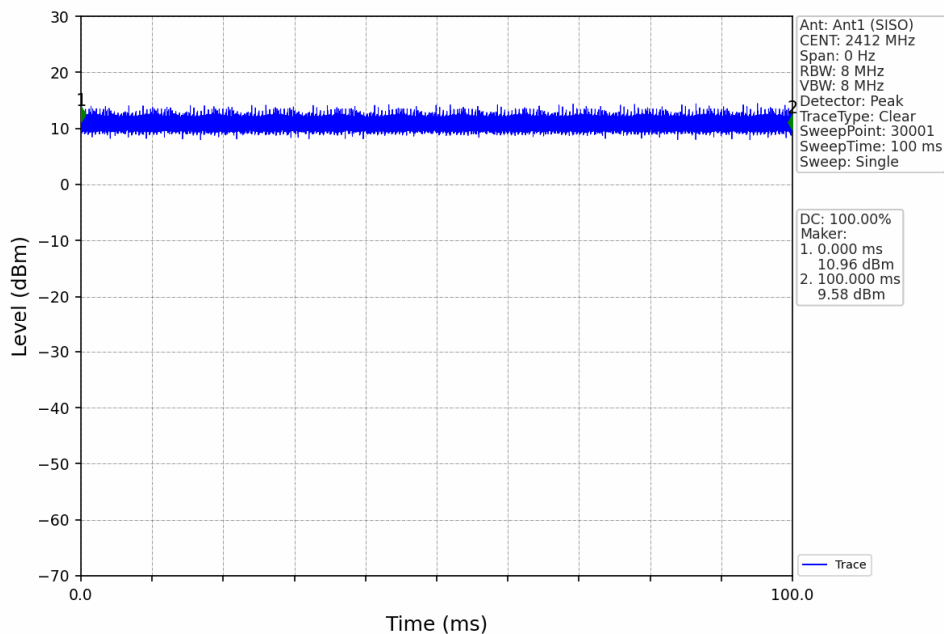
Report No.: FYCR221200048801

Page: 74 of 118

802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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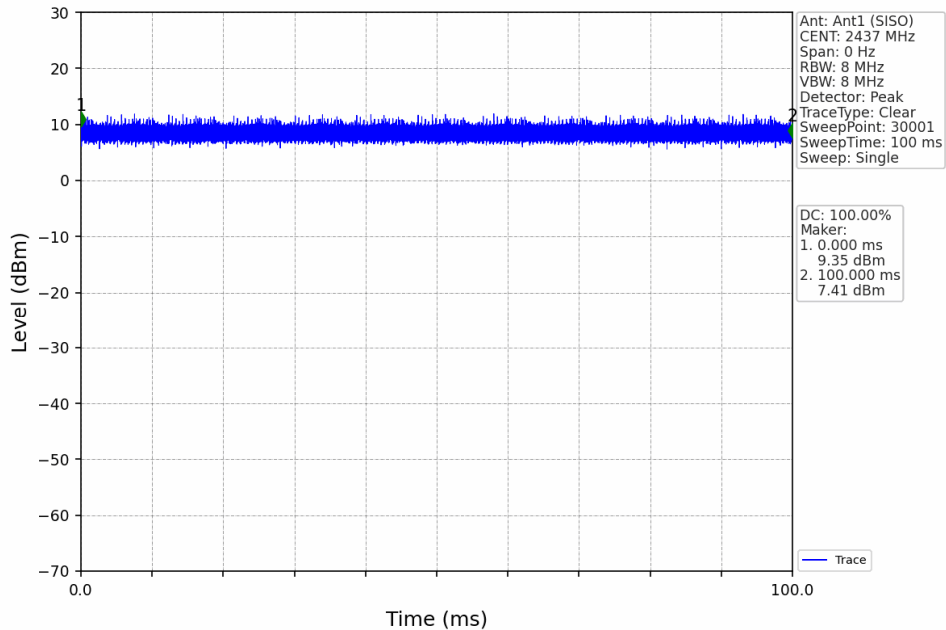
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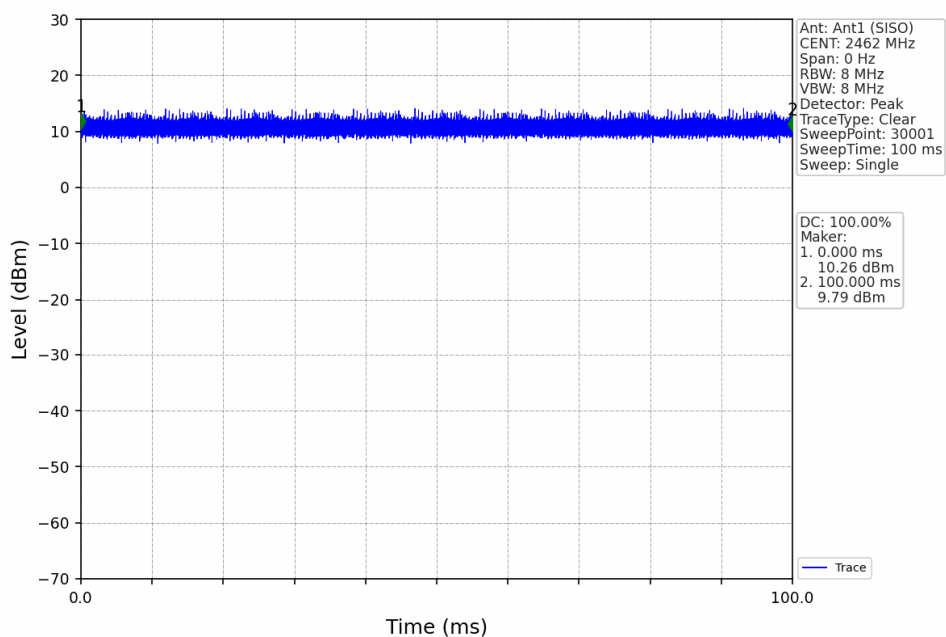
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Page: 75 of 118

802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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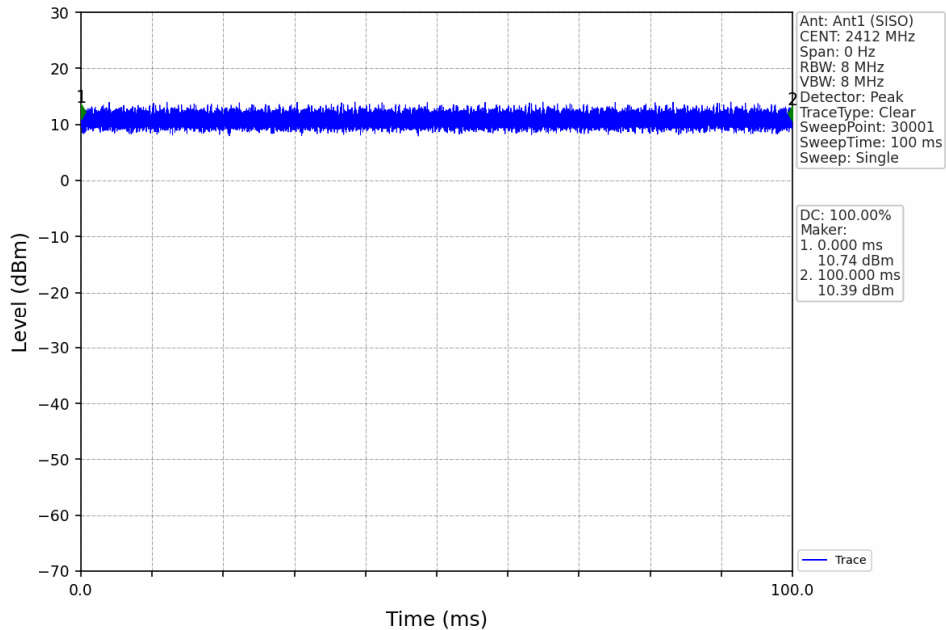
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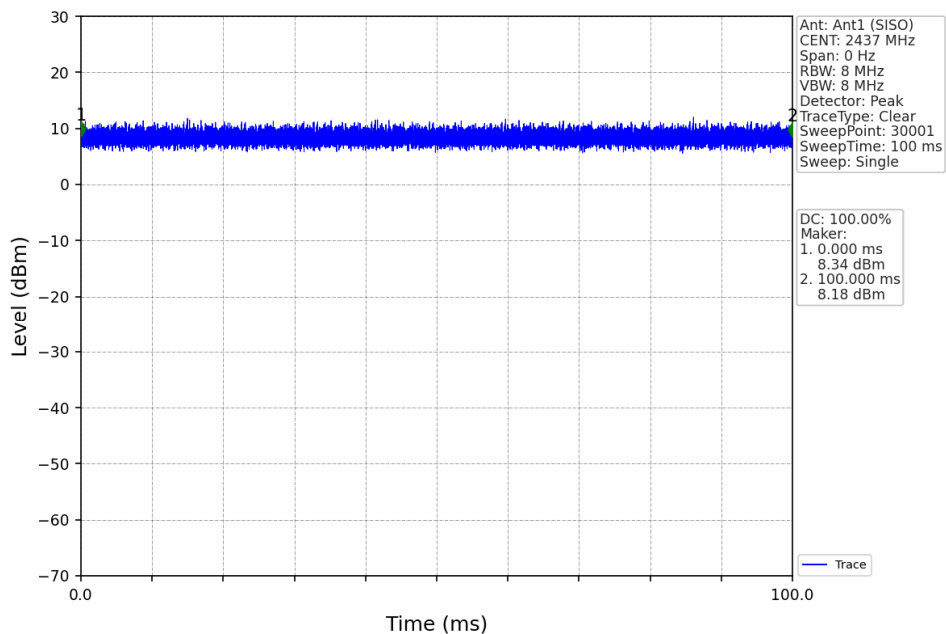
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Page: 76 of 118

802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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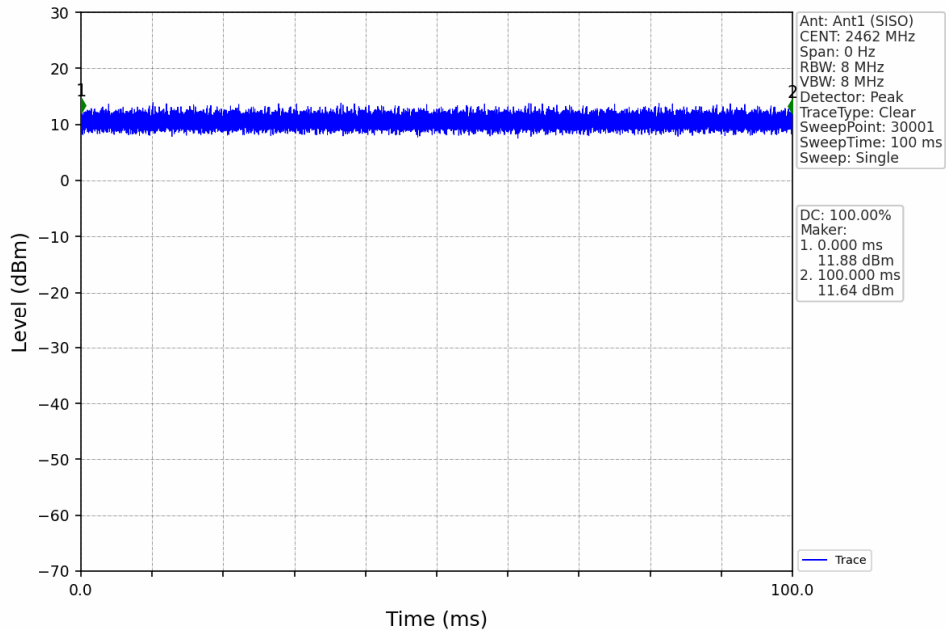
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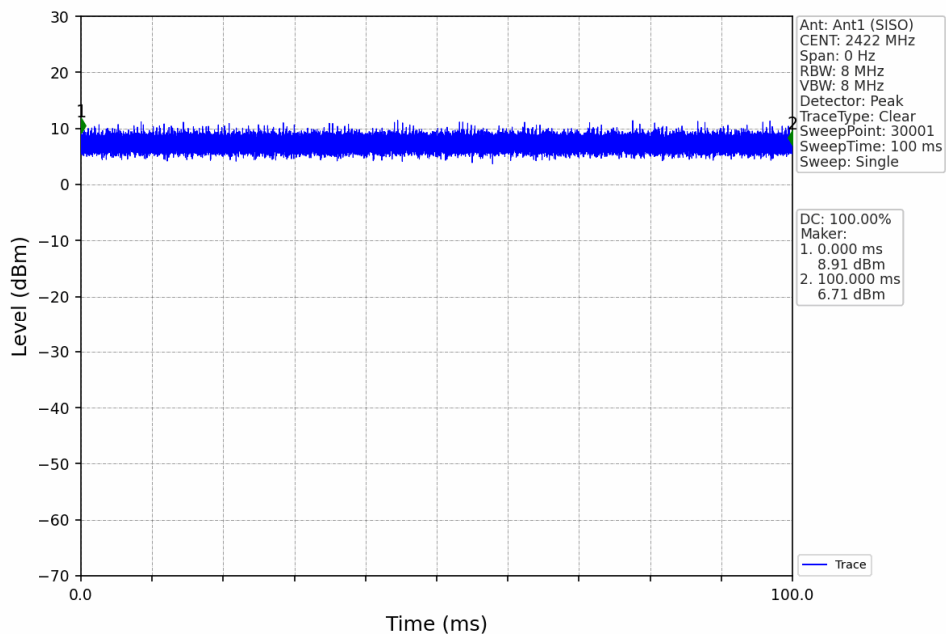
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Page: 77 of 118

802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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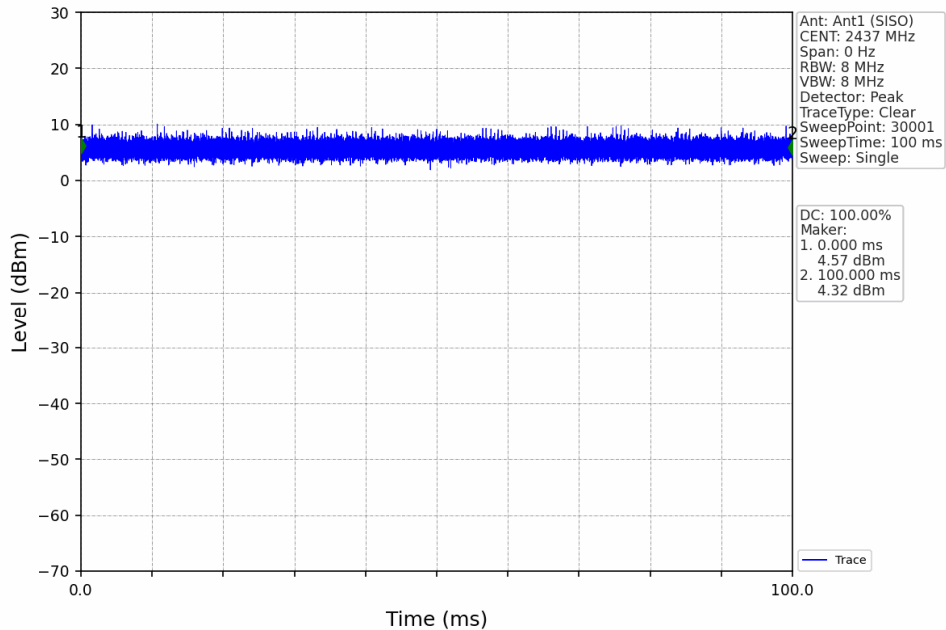
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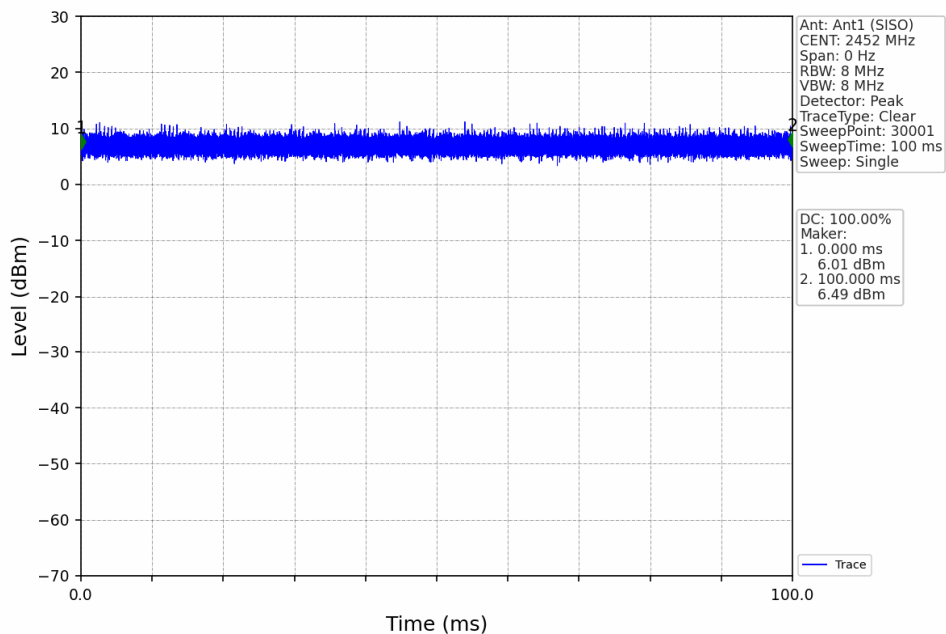
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 79 of 118

2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.134	Pass
		2437	1	13.167	Pass
		2462	1	13.140	Pass
802.11g	SISO	2412	1	16.882	Pass
		2437	1	16.888	Pass
		2462	1	16.877	Pass
802.11n (HT20)	SISO	2412	1	17.555	Pass
		2437	1	17.544	Pass
		2462	1	17.546	Pass
802.11n (HT40)	SISO	2422	1	34.876	Pass
		2437	1	34.816	Pass
		2452	1	34.864	Pass



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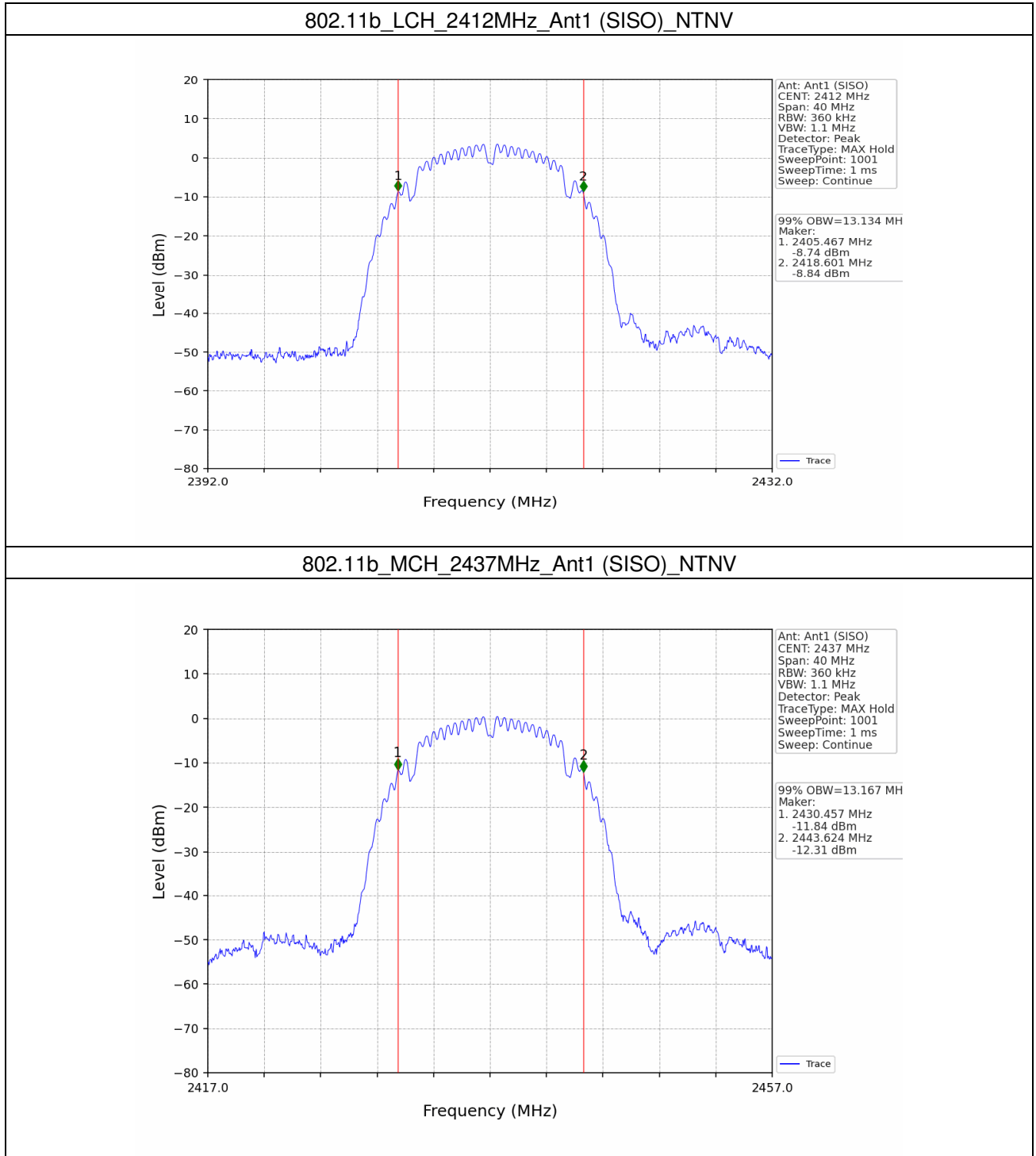
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Page: 80 of 118

2.1.2 Test Graph



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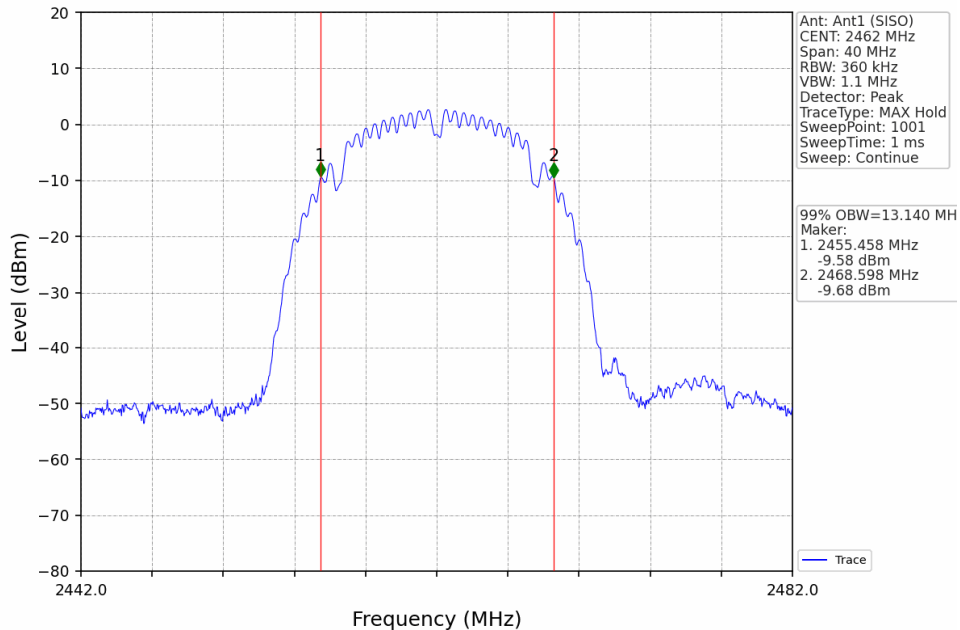
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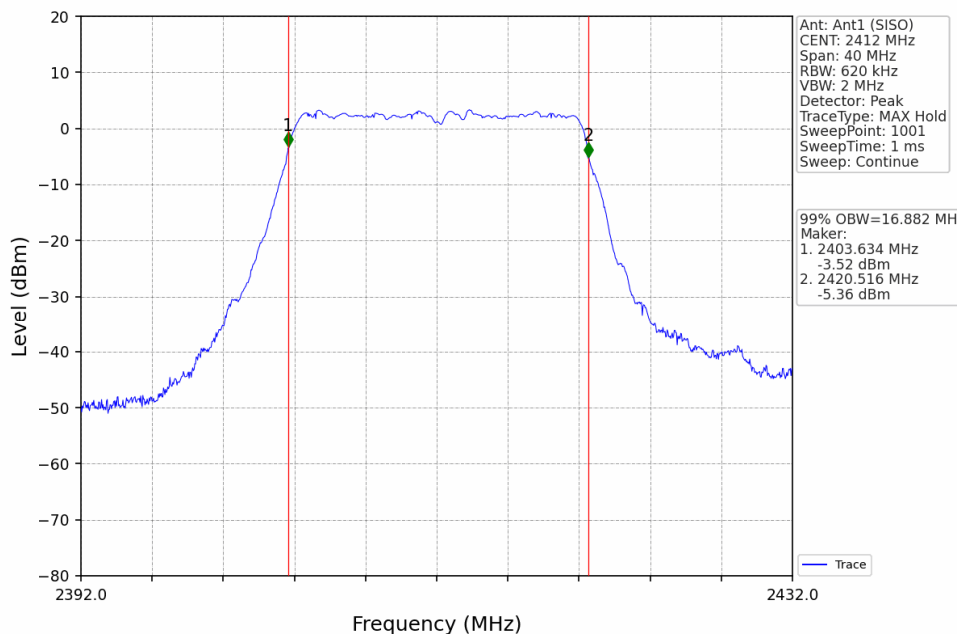
Report No.: FYCR221200048801

Page: 81 of 118

802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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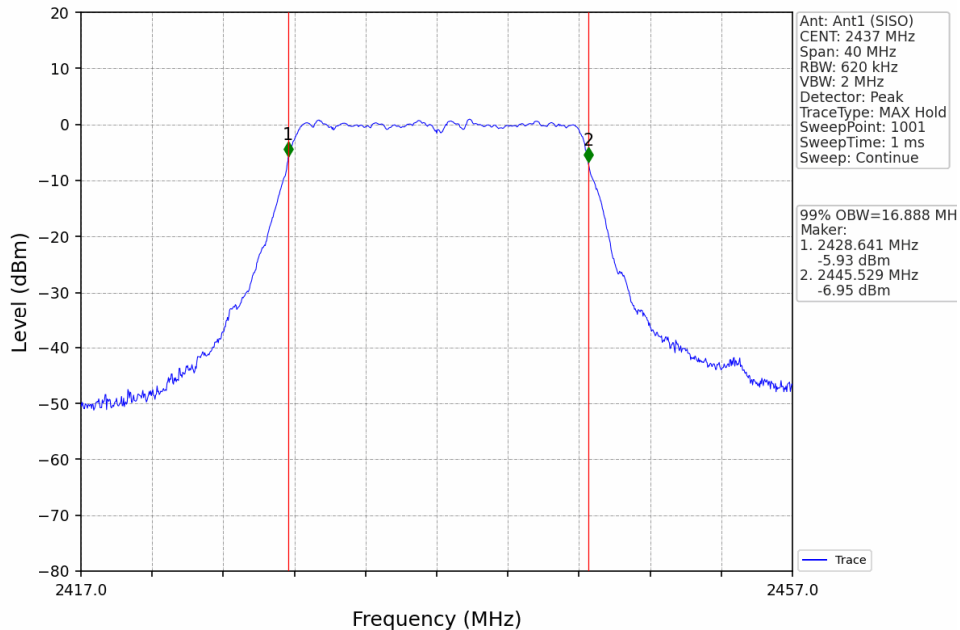
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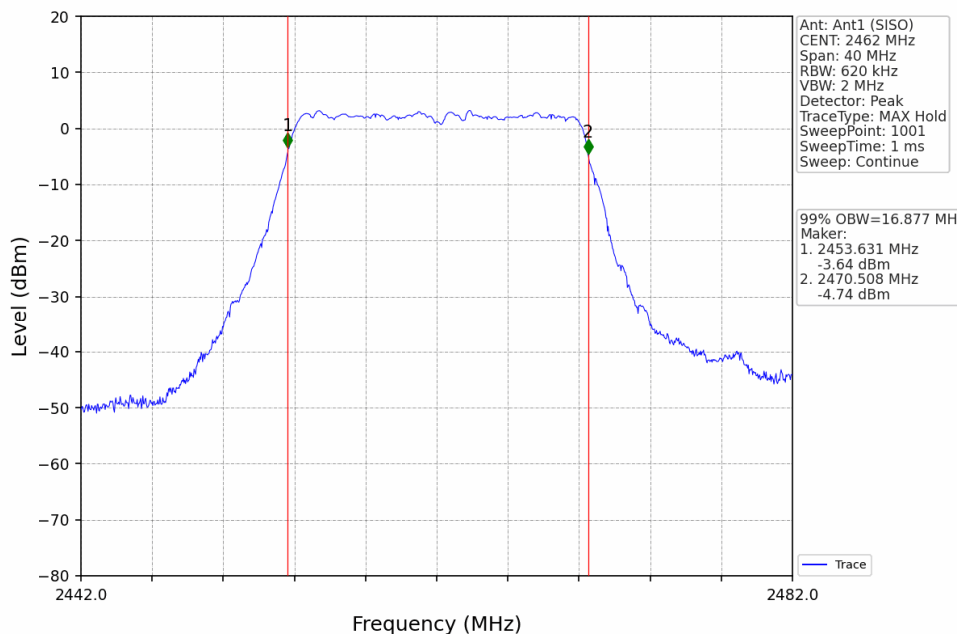
Report No.: FYCR221200048801

Page: 82 of 118

802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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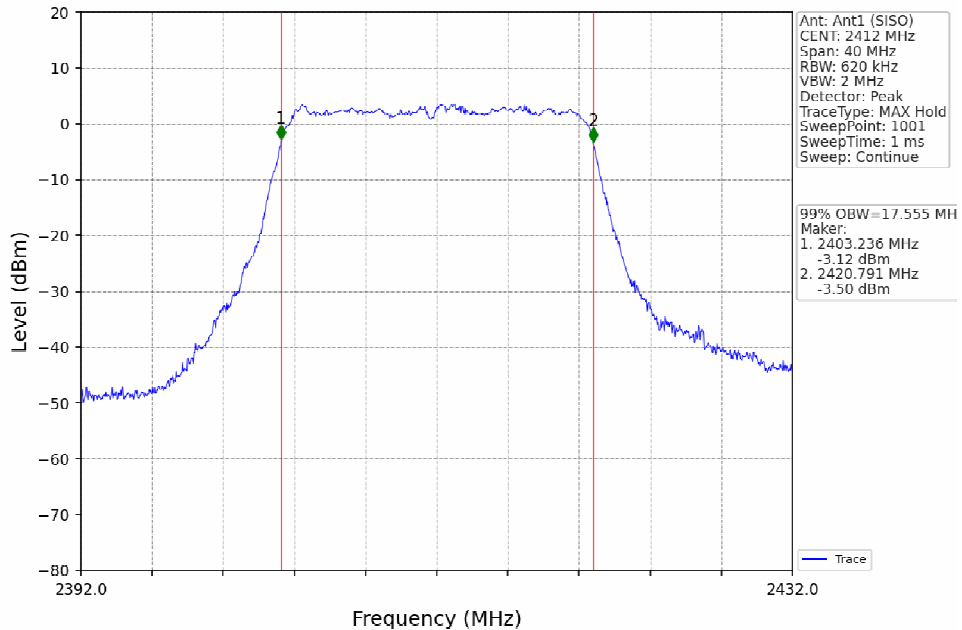
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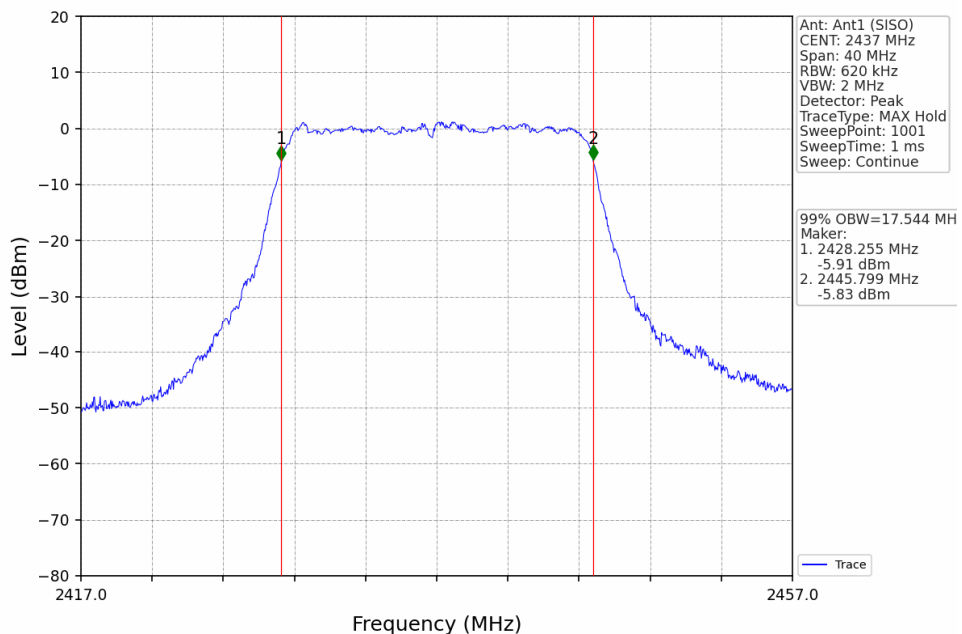
Report No.: FYCR221200048801

Page: 83 of 118

802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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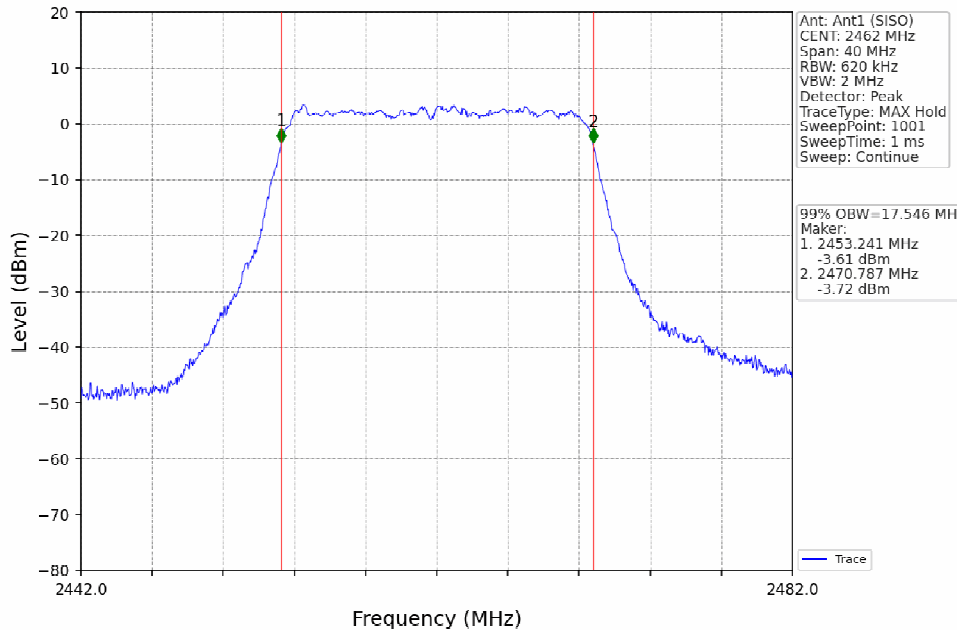
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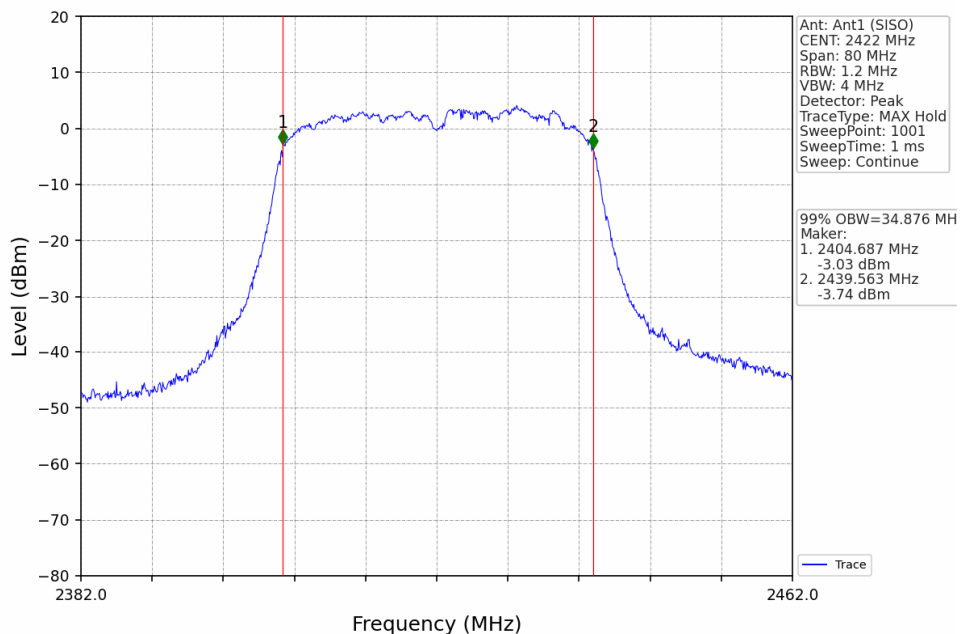
Report No.: FYCR221200048801

Page: 84 of 118

802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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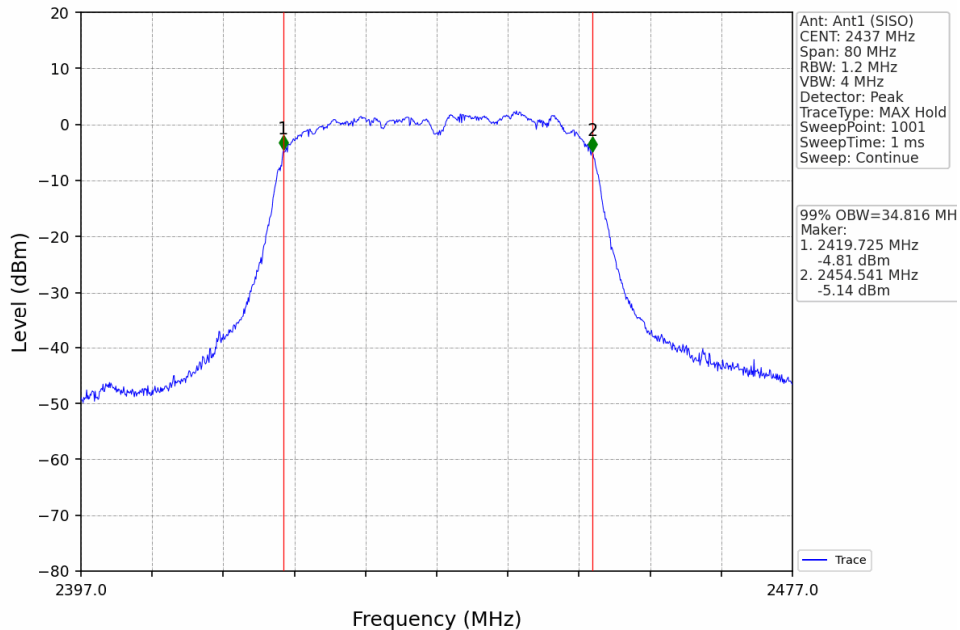
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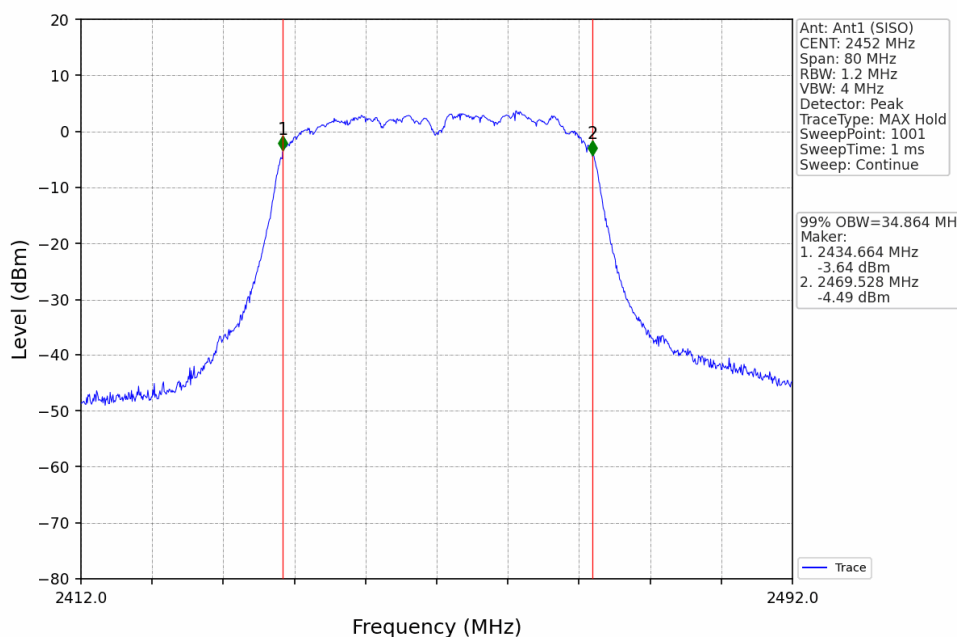
Report No.: FYCR221200048801

Page: 85 of 118

802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 86 of 118

2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.135	≥ 0.5	Pass
		2437	1	9.156	≥ 0.5	Pass
		2462	1	9.154	≥ 0.5	Pass
802.11g	SISO	2412	1	16.465	≥ 0.5	Pass
		2437	1	16.470	≥ 0.5	Pass
		2462	1	16.472	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.404	≥ 0.5	Pass
		2437	1	17.380	≥ 0.5	Pass
		2462	1	17.383	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	33.184	≥ 0.5	Pass
		2437	1	33.324	≥ 0.5	Pass
		2452	1	33.349	≥ 0.5	Pass



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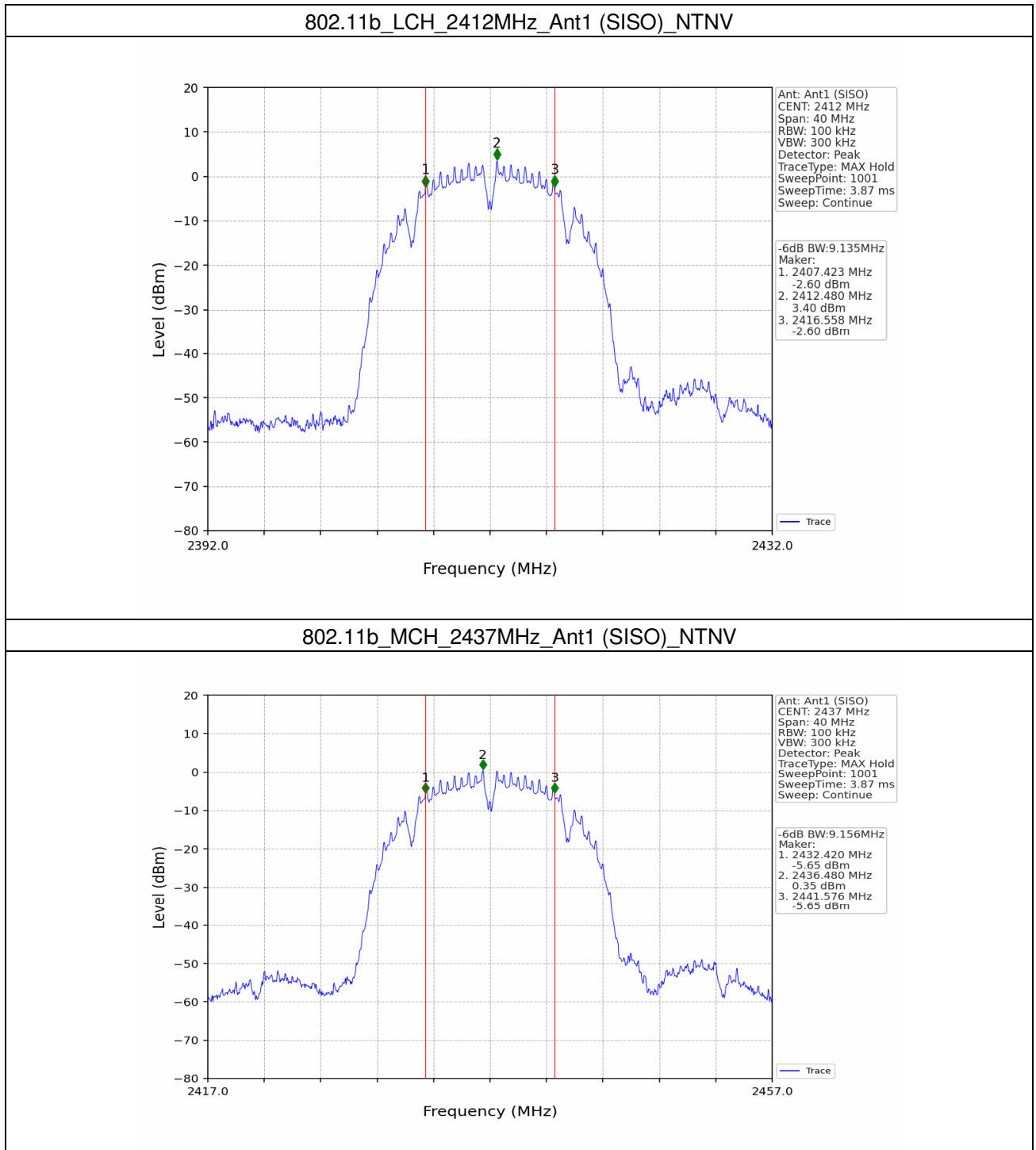
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Report No.: FYCR221200048801

Page: 87 of 118

2.2.2 Test Graph



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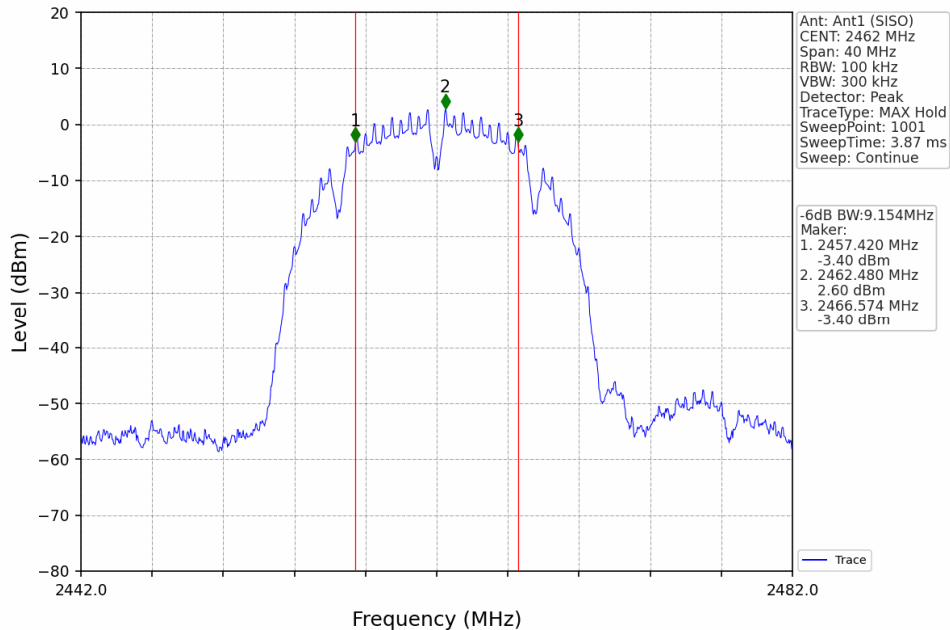
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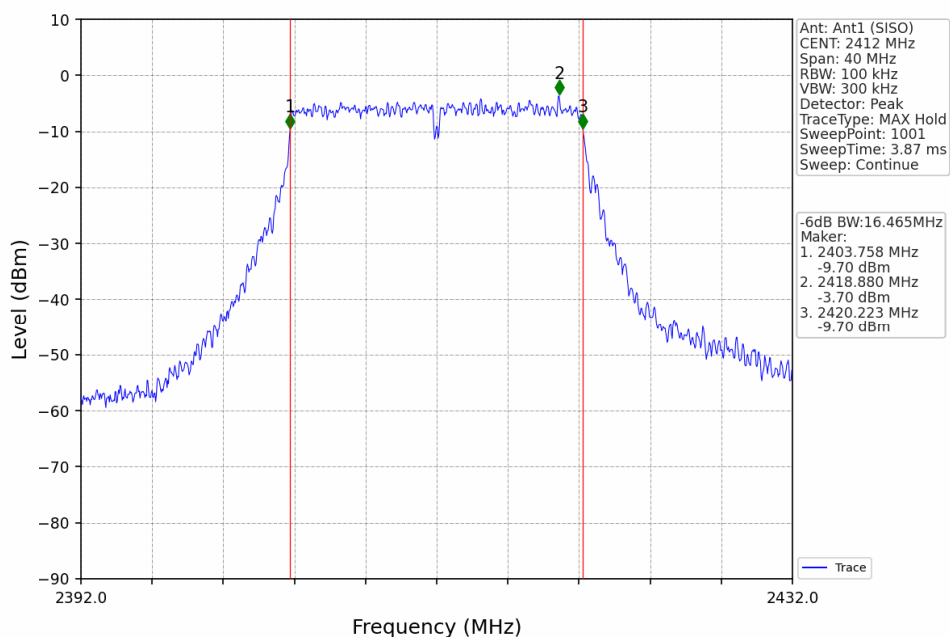
Report No.: FYCR221200048801

Page: 88 of 118

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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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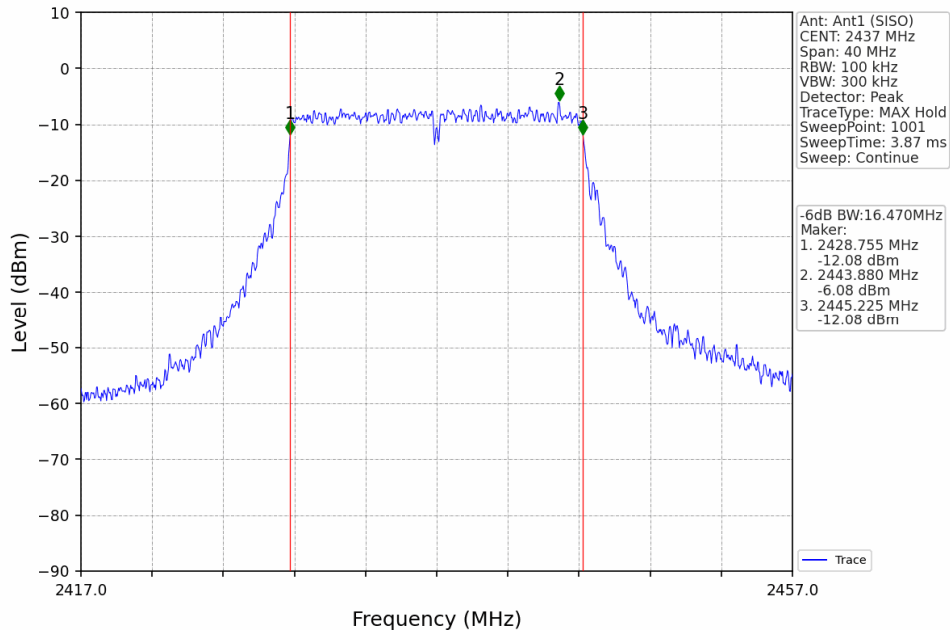
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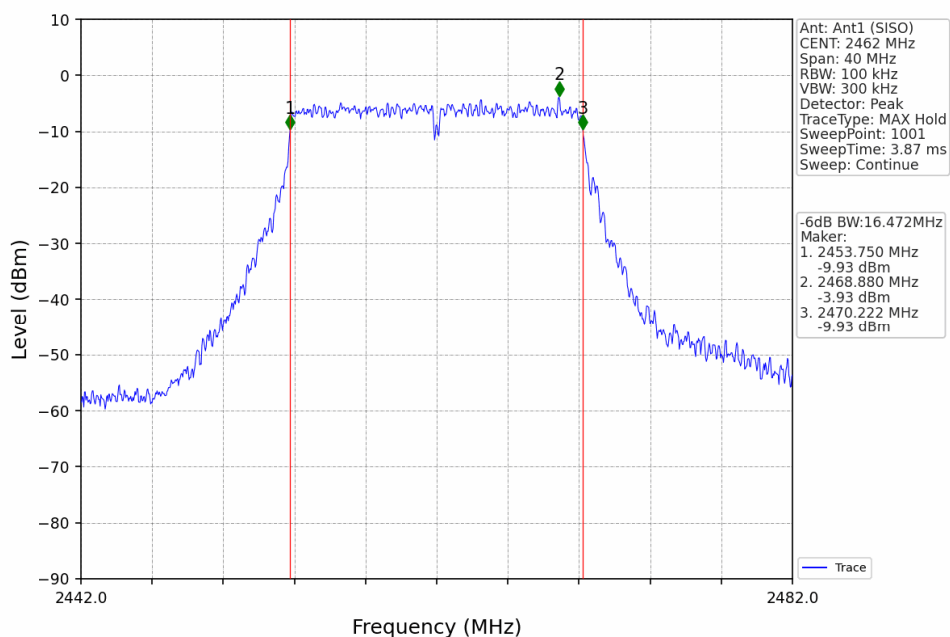
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Page: 89 of 118

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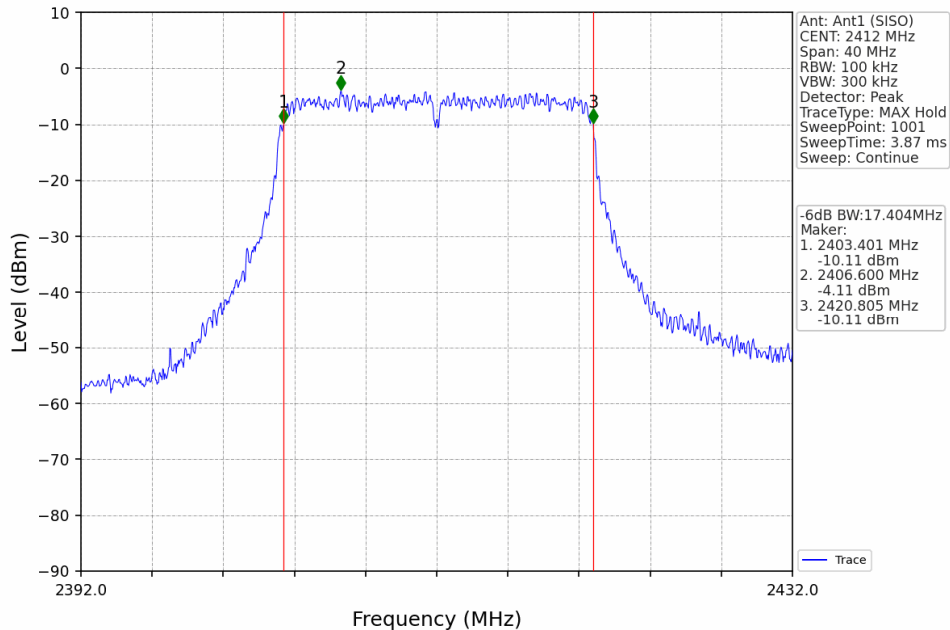
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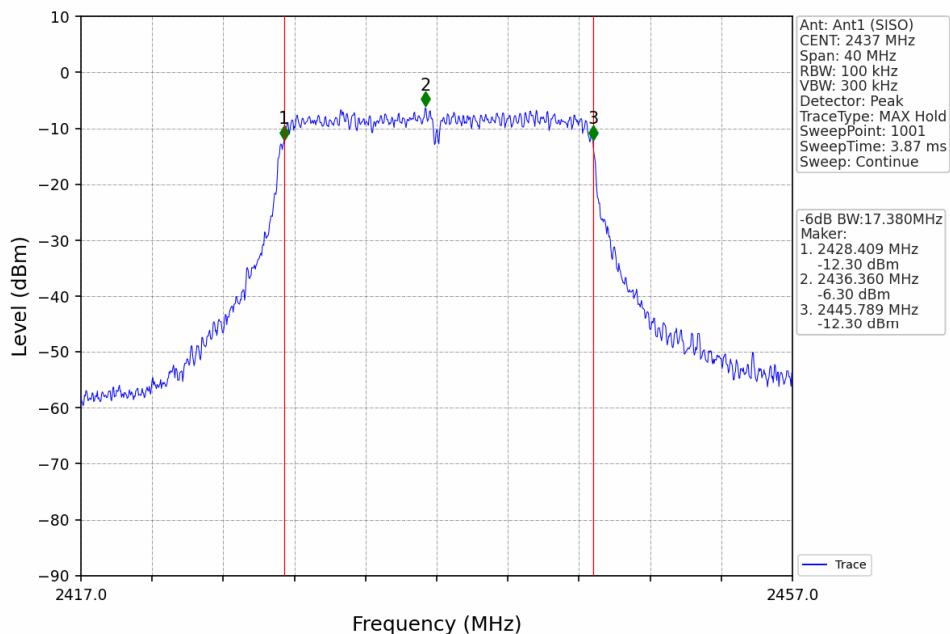
Report No.: FYCR221200048801

Page: 90 of 118

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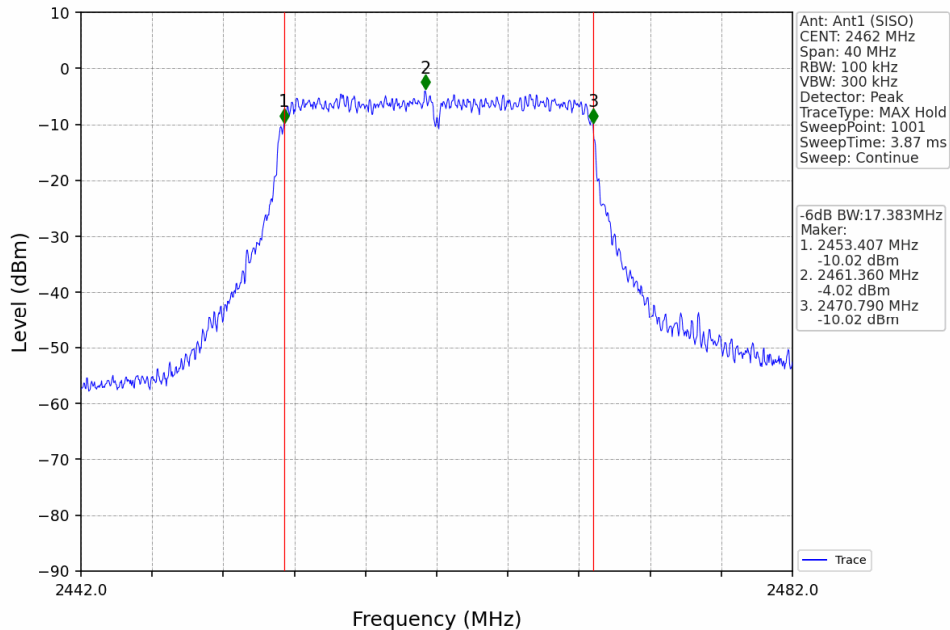
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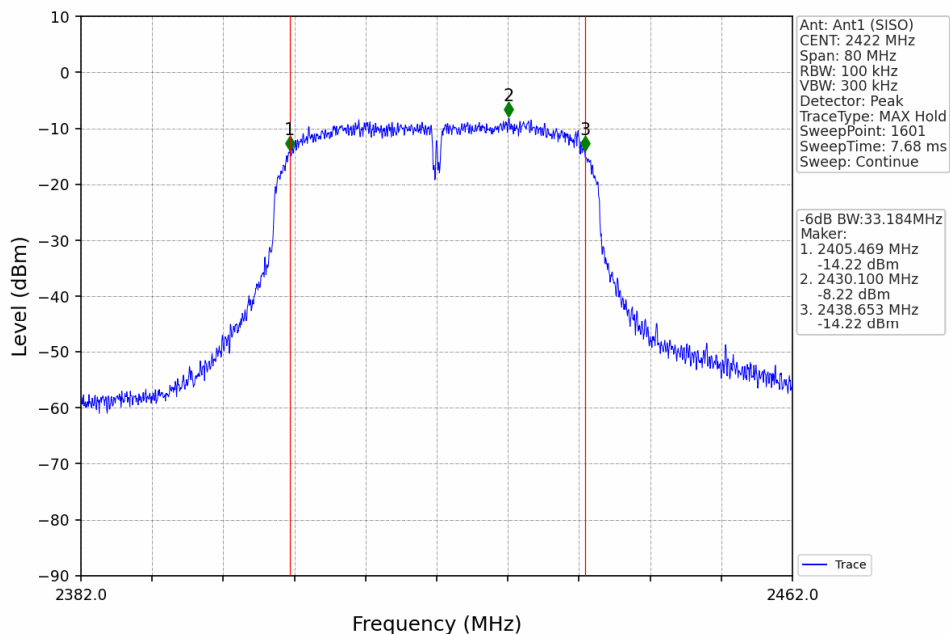
Report No.: FYCR221200048801

Page: 91 of 118

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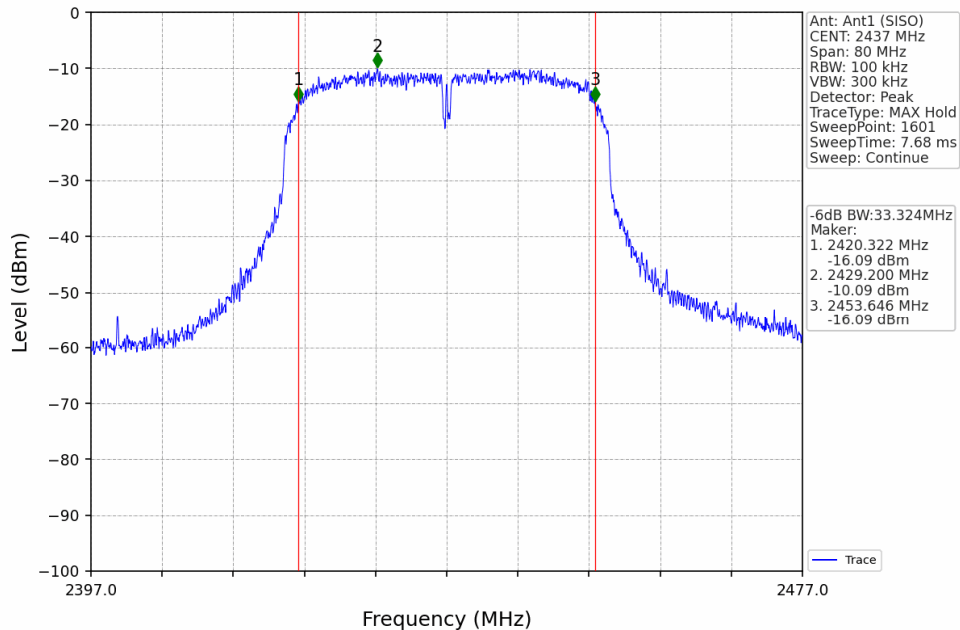
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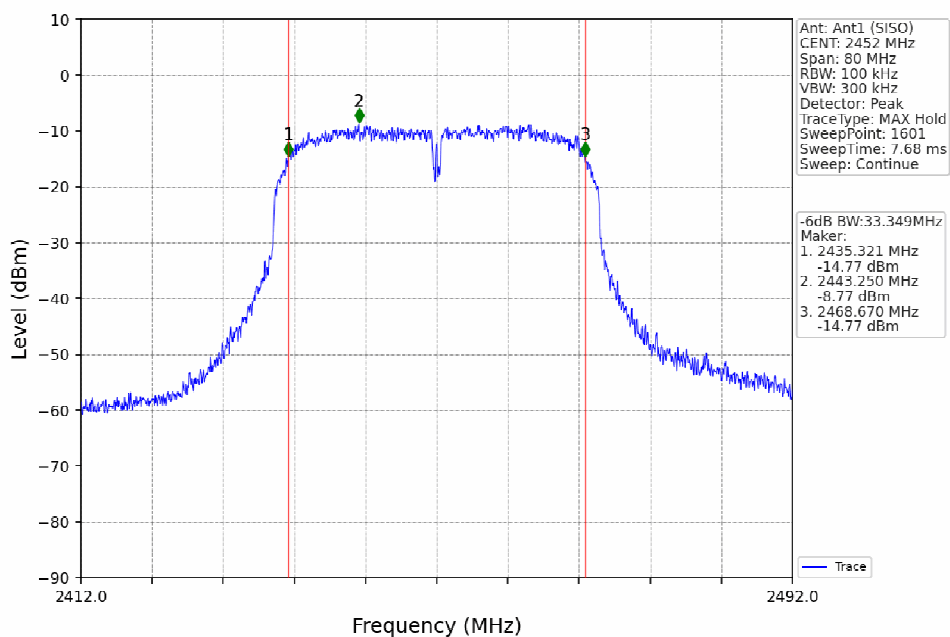
Report No.: FYCR221200048801

Page: 92 of 118

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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 93 of 118

3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	16.58	≤ 30	Pass
		2437	16.44	≤ 30	Pass
		2462	16.39	≤ 30	Pass
802.11g	SISO	2412	13.04	≤ 30	Pass
		2437	13.02	≤ 30	Pass
		2462	12.98	≤ 30	Pass
802.11n (HT20)	SISO	2412	13.16	≤ 30	Pass
		2437	13.08	≤ 30	Pass
		2462	12.97	≤ 30	Pass
802.11n (HT40)	SISO	2422	13.54	≤ 30	Pass
		2437	12.93	≤ 30	Pass
		2452	12.77	≤ 30	Pass



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 94 of 118

4. Maximum Power Spectral Density**4.1 PSD****4.1.1 Test Result**

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-7.89	<=8	Pass
		2437	-8.30	<=8	Pass
		2462	-8.08	<=8	Pass
802.11g	SISO	2412	-10.21	<=8	Pass
		2437	-9.68	<=8	Pass
		2462	-9.17	<=8	Pass
802.11n (HT20)	SISO	2412	-10.26	<=8	Pass
		2437	-9.93	<=8	Pass
		2462	-9.33	<=8	Pass
802.11n (HT40)	SISO	2422	-10.35	<=8	Pass
		2437	-10.33	<=8	Pass
		2452	-9.91	<=8	Pass



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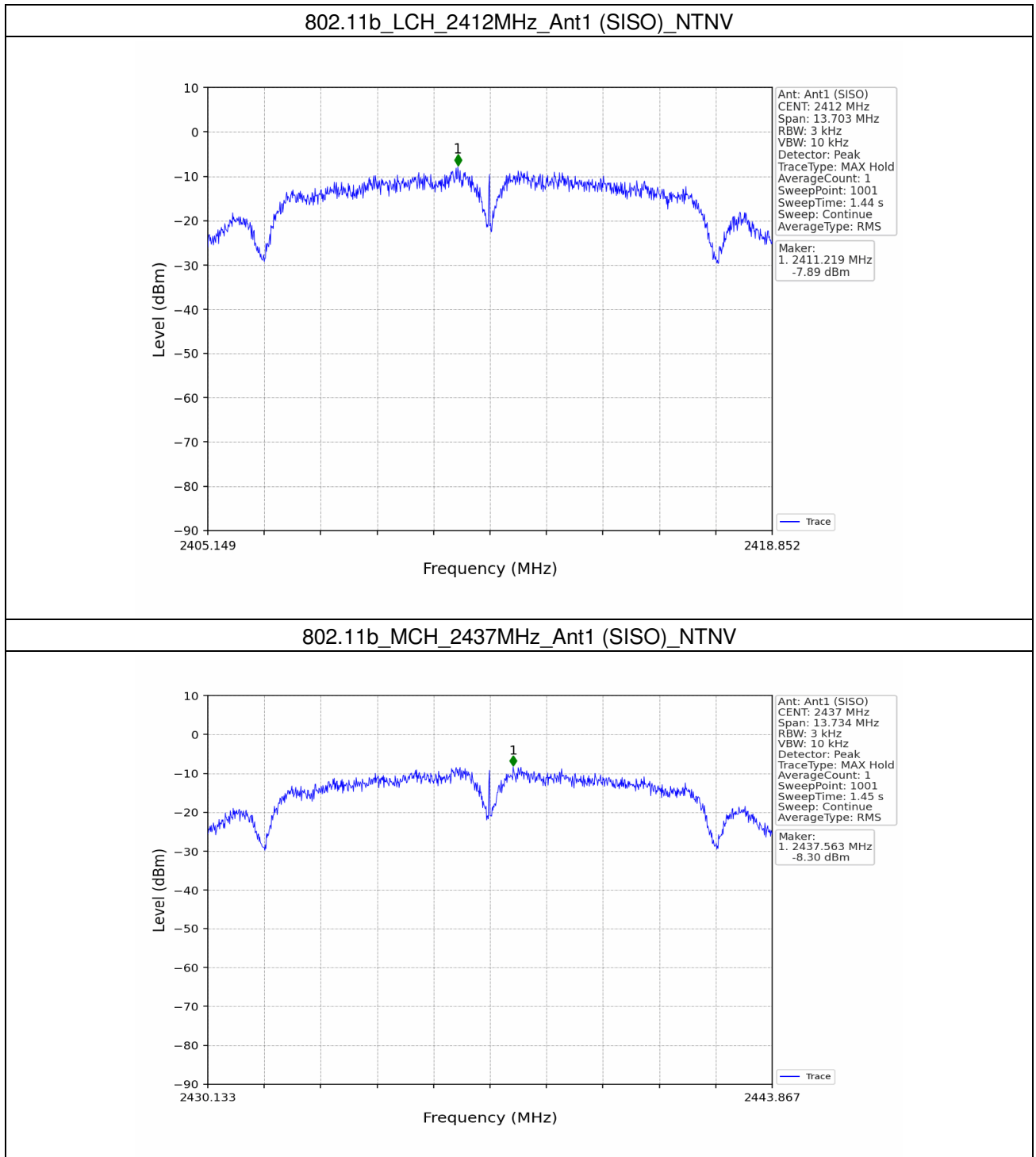
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Page: 95 of 118

4.1.2 Test Graph



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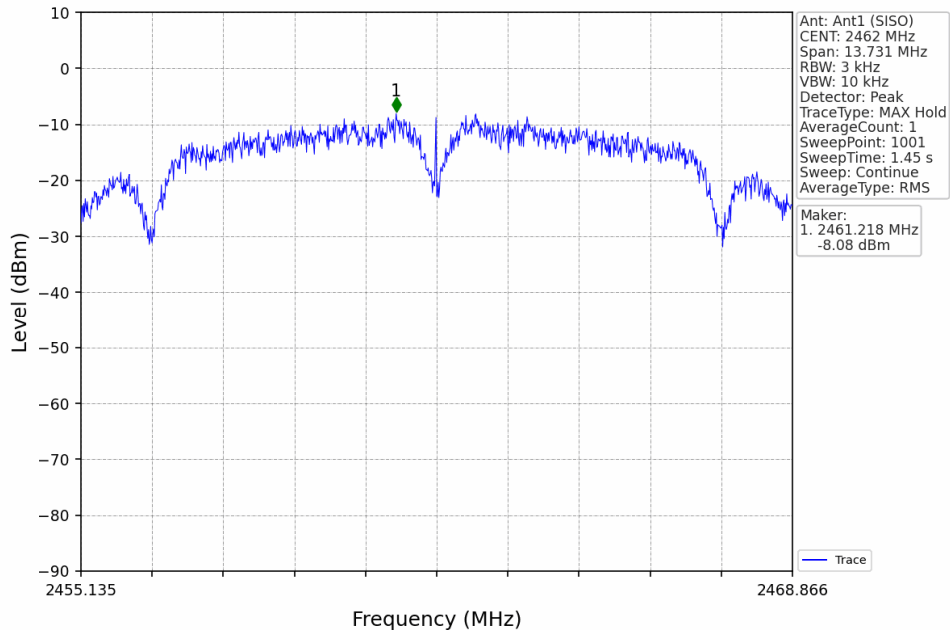
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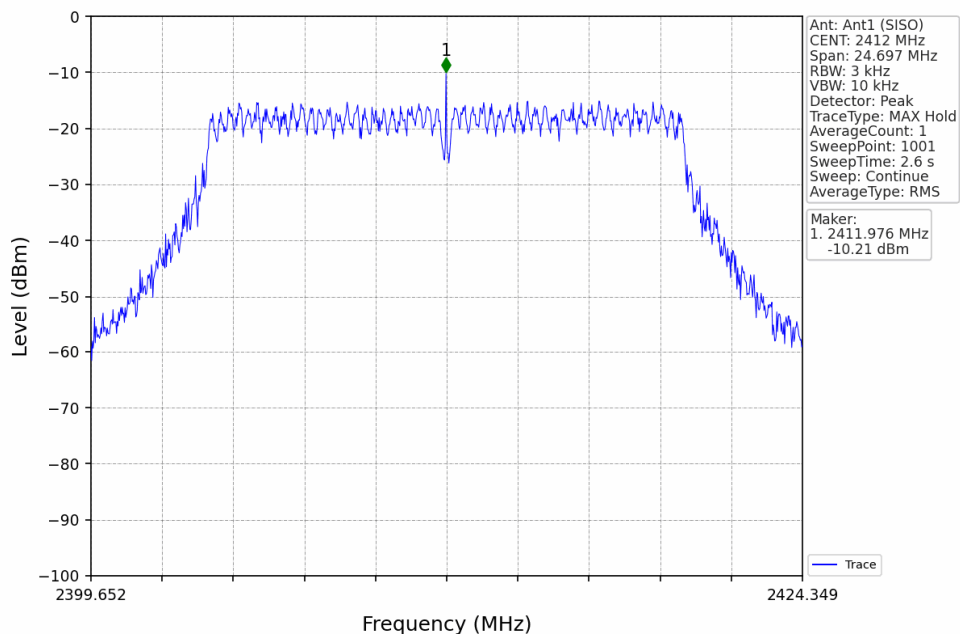
Report No.: FYCR221200048801

Page: 96 of 118

802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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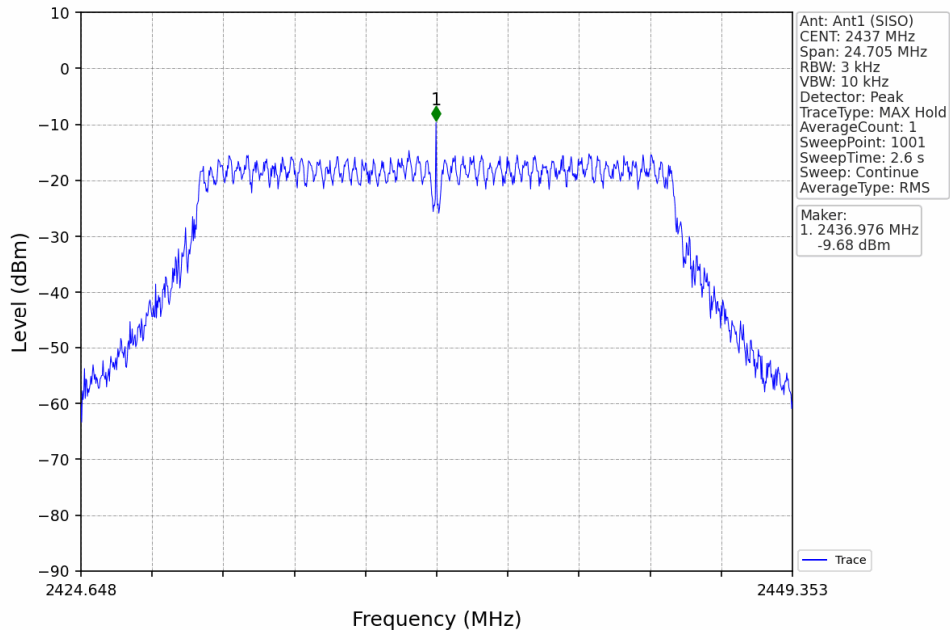
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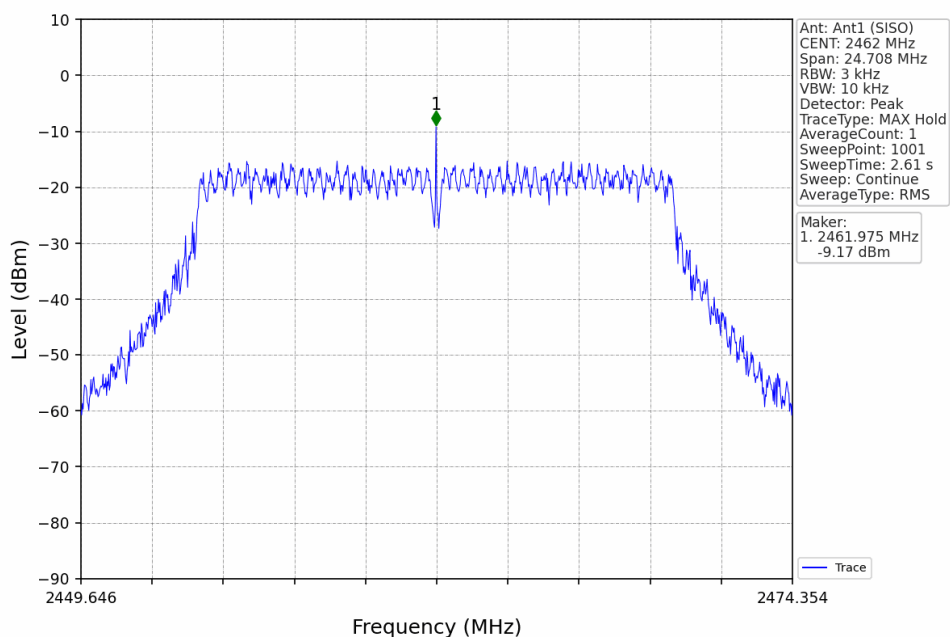
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Page: 97 of 118

802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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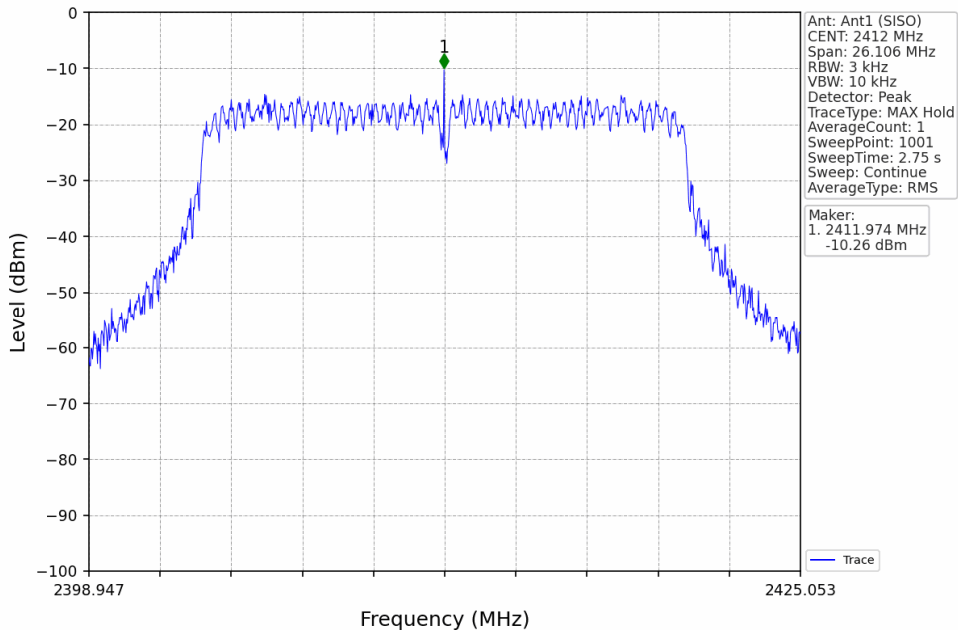
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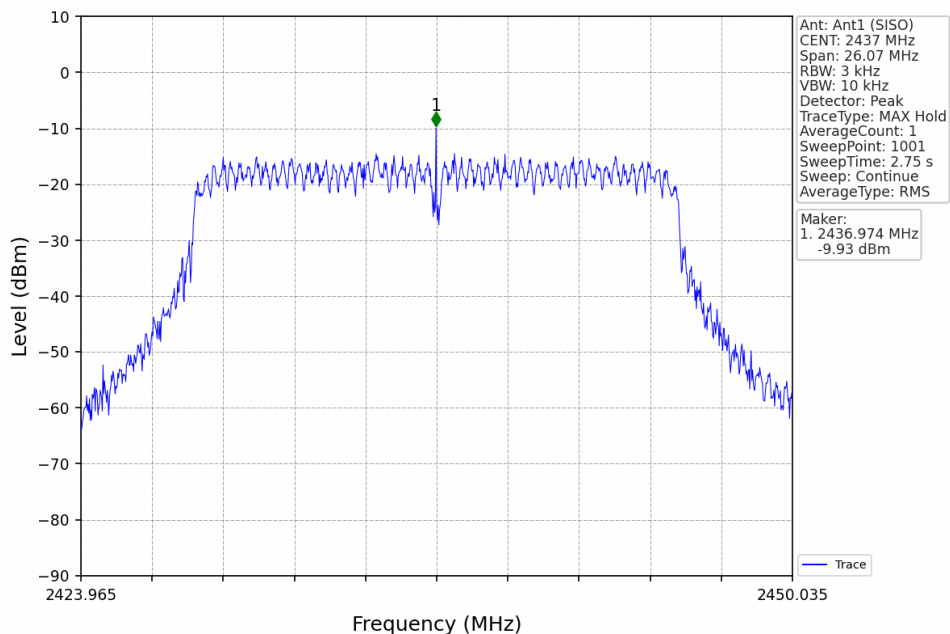
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Page: 98 of 118

802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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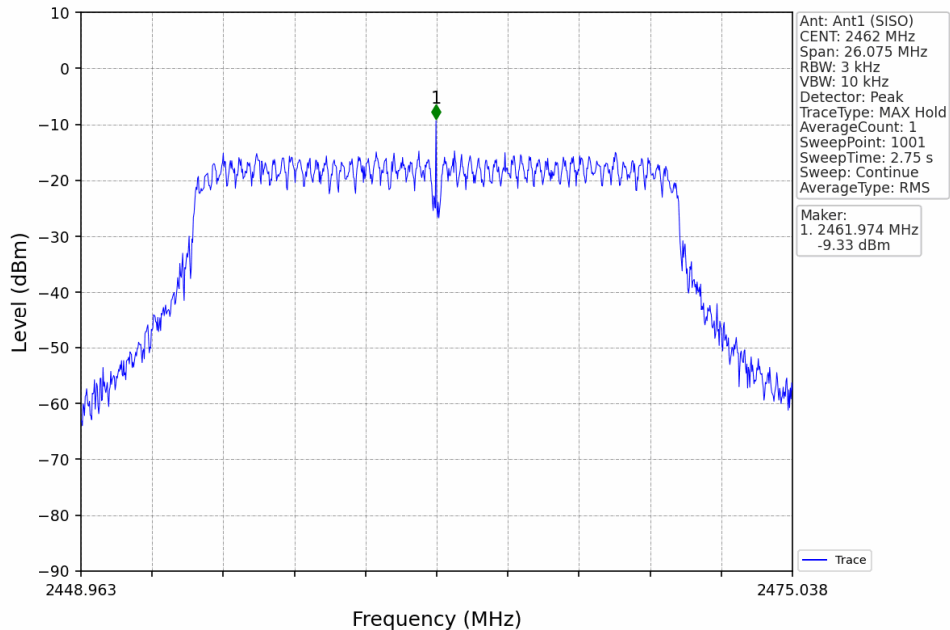
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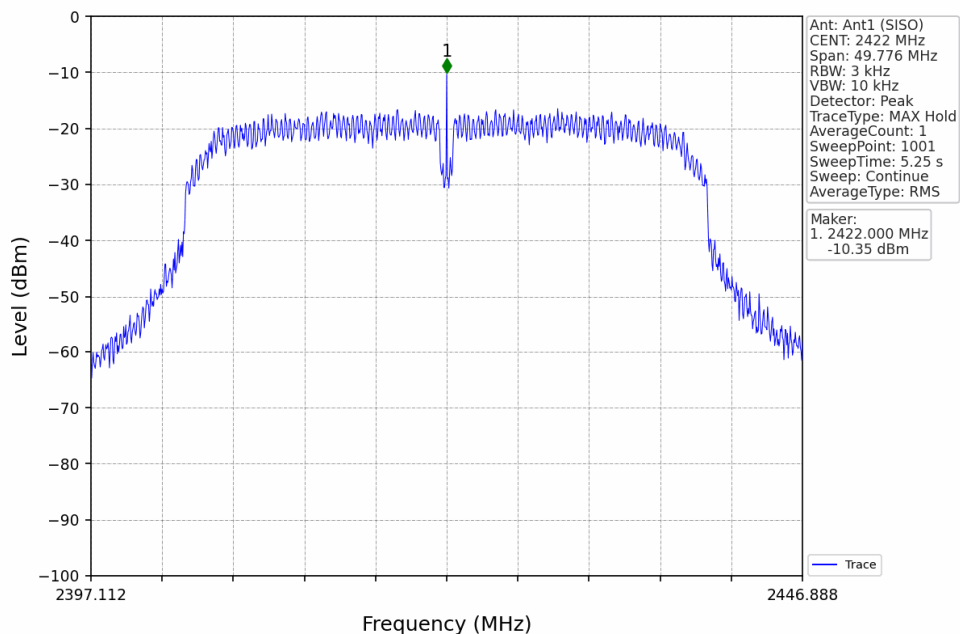
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Page: 99 of 118

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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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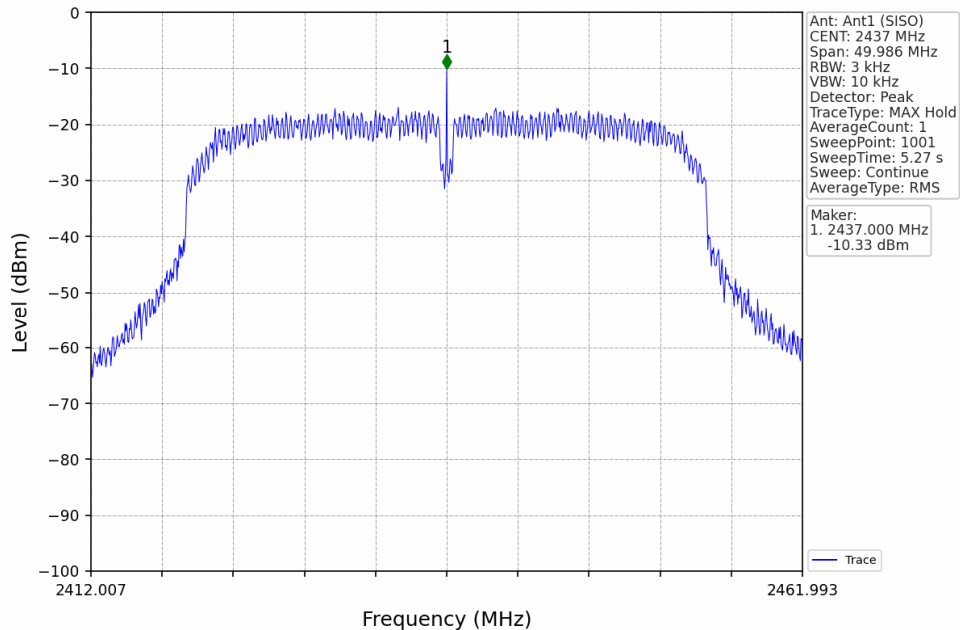
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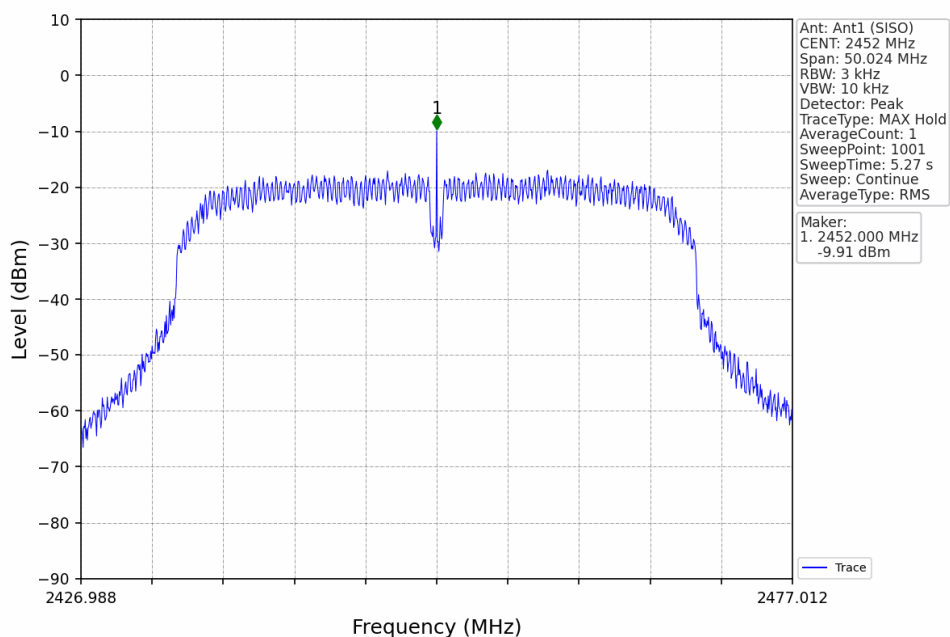
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Page: 100 of 118

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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221200048801

Page: 101 of 118

5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	8.16
		2437	1	8.13
		2462	1	8.11
802.11g	SISO	2412	1	0.34
		2437	1	0.42
		2462	1	0.30
802.11n (HT20)	SISO	2412	1	0.22
		2437	1	0.24
		2462	1	0.42
802.11n (HT40)	SISO	2422	1	-2.51
		2437	1	-2.98
		2452	1	-3.27



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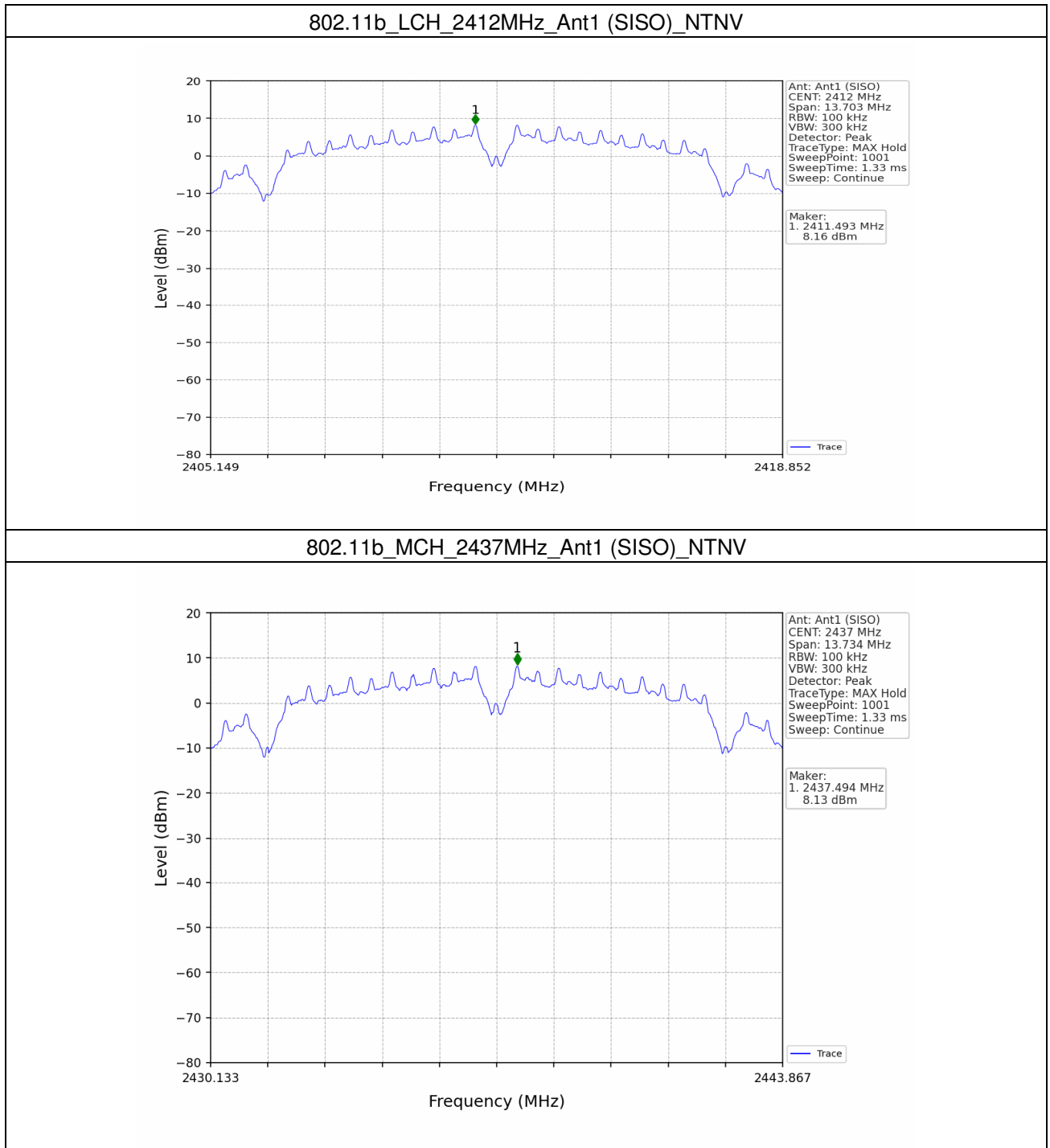
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Page: 102 of 118

5.1.2 Test Graph



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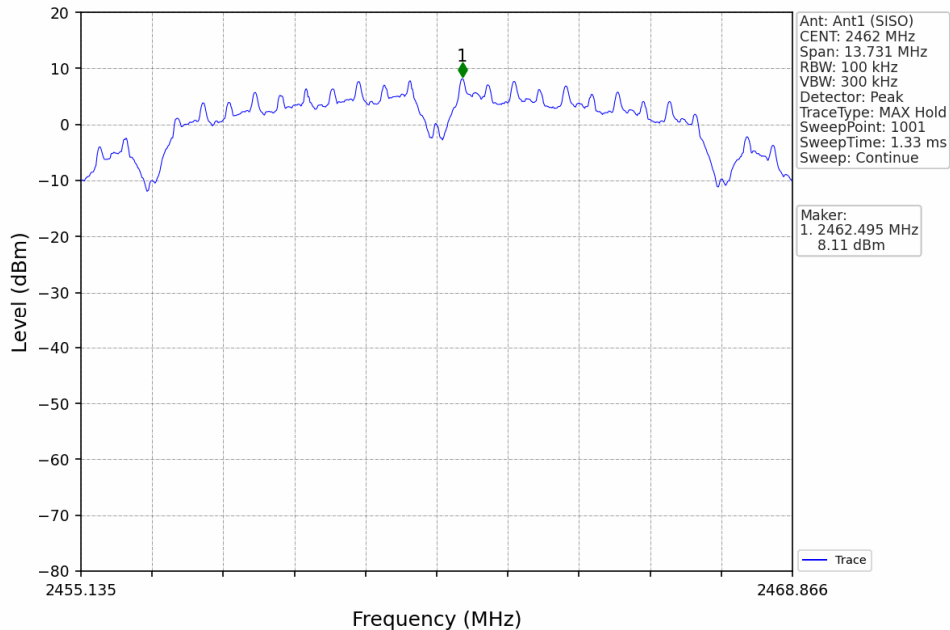
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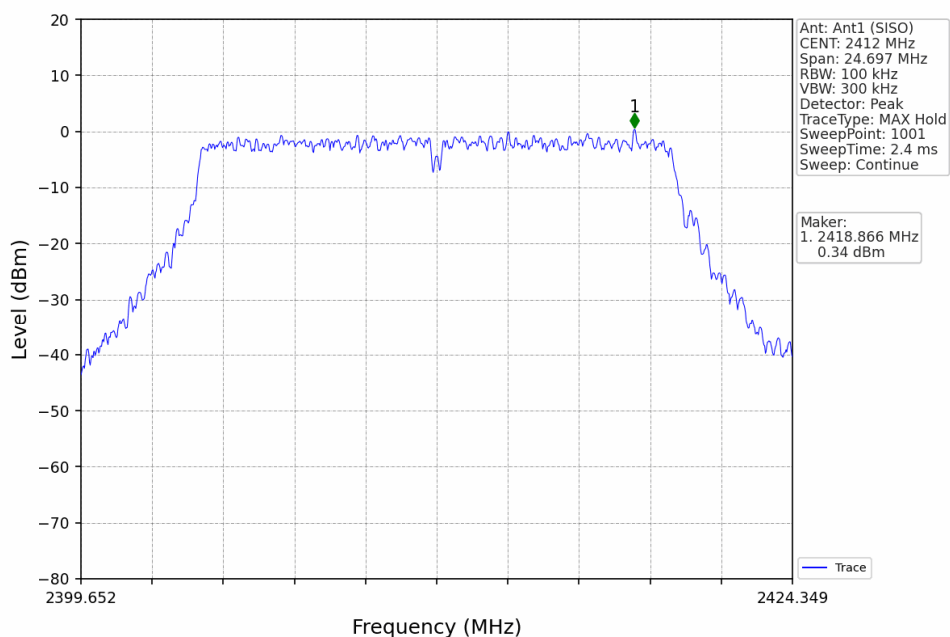
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Page: 103 of 118

802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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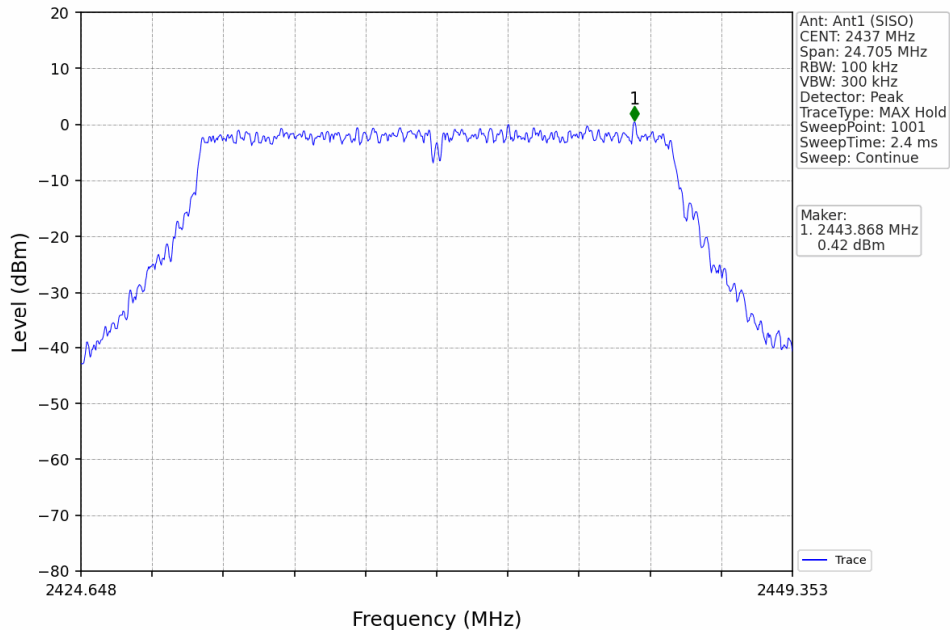
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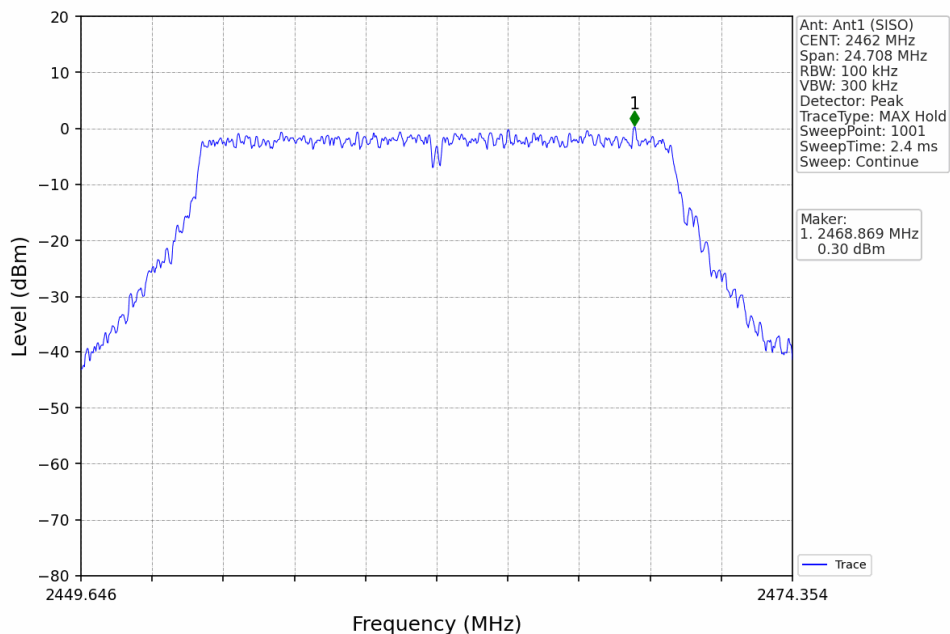
Report No.: FYCR221200048801

Page: 104 of 118

802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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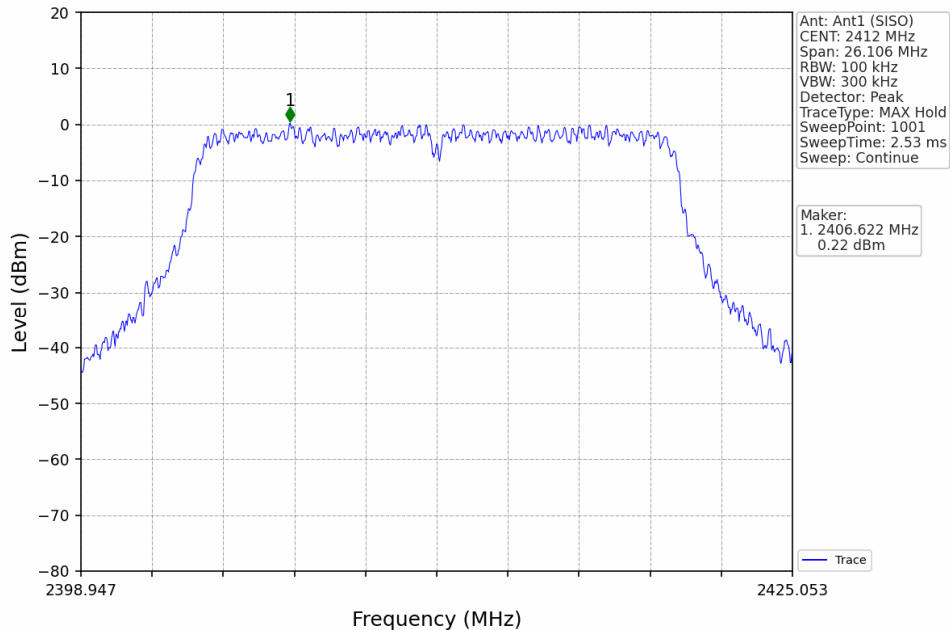
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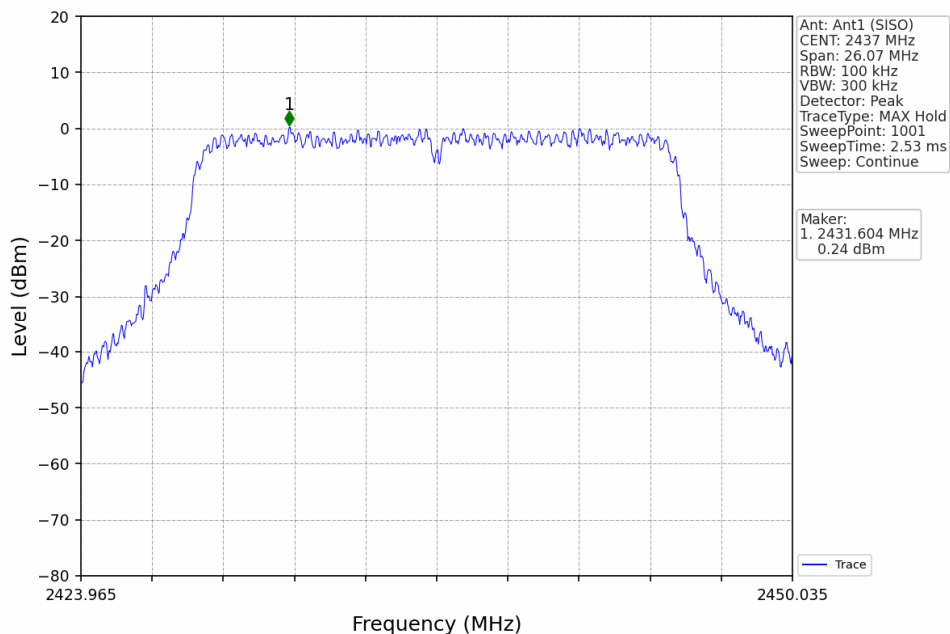
Report No.: FYCR221200048801

Page: 105 of 118

802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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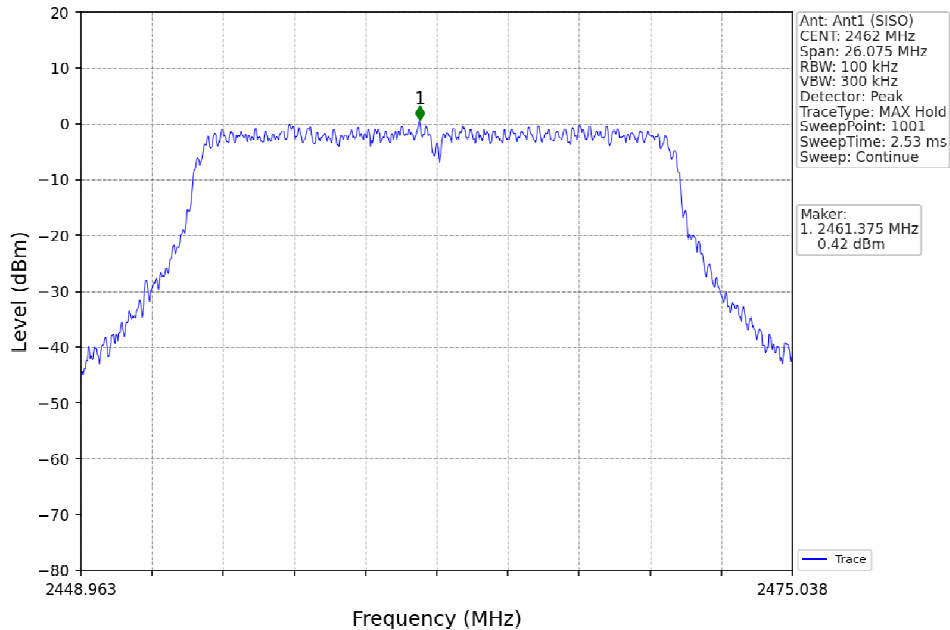
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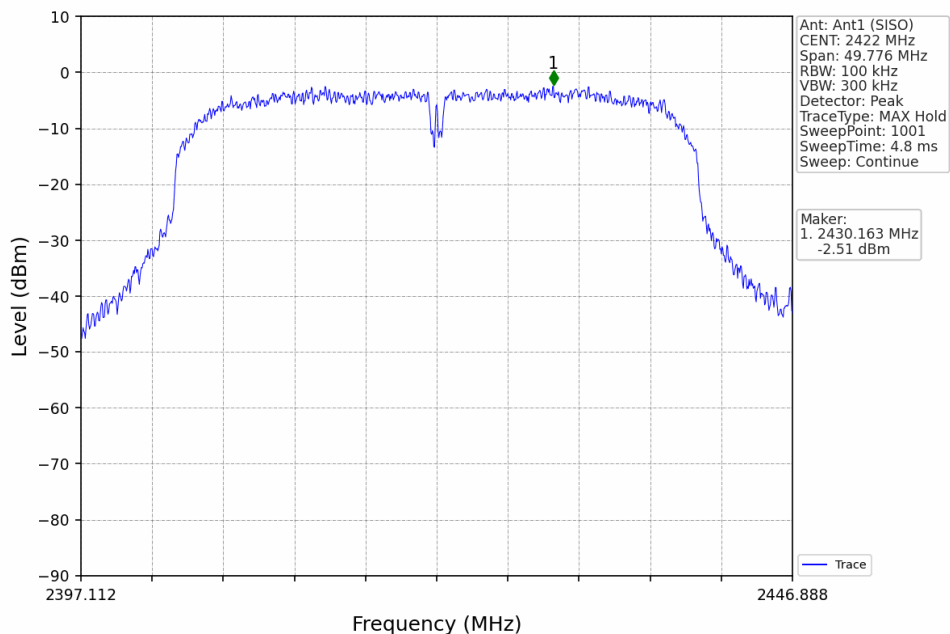
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Page: 106 of 118

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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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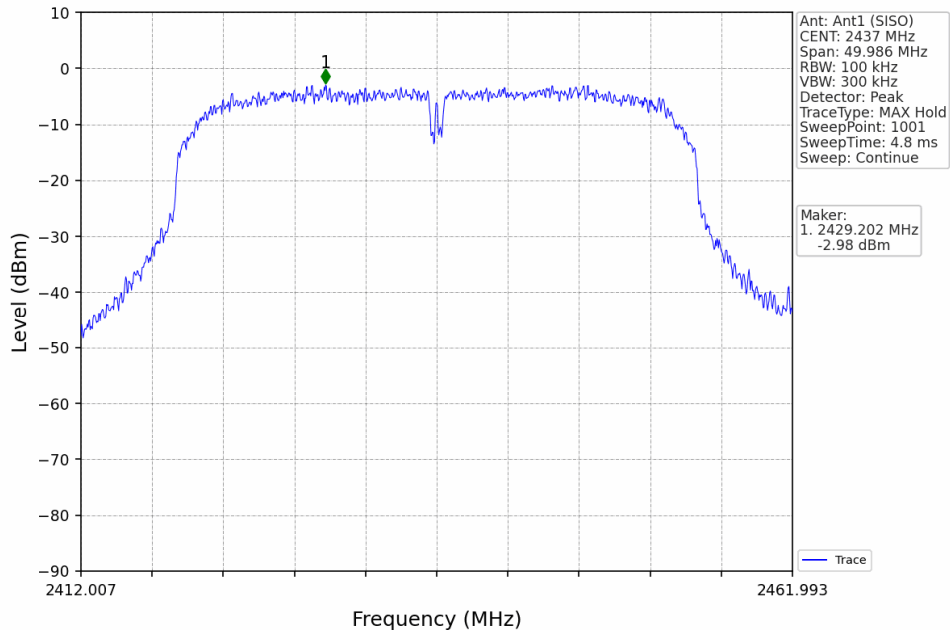
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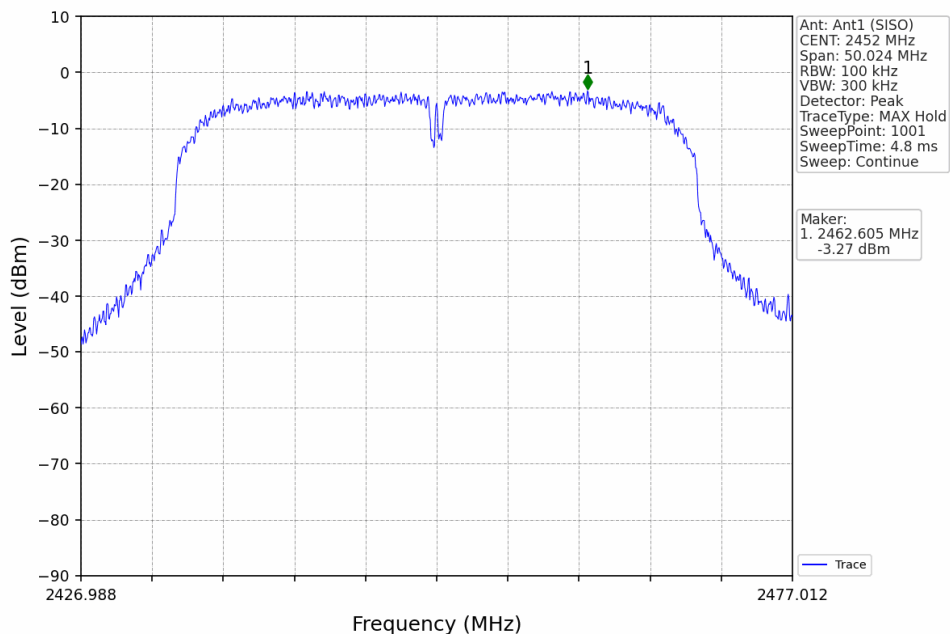
Report No.: FYCR221200048801

Page: 107 of 118

802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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Report No.: FYCR221200048801

Page: 108 of 118

5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.16	-21.84	Pass
		2437	1	8.16	-21.84	Pass
		2462	1	8.16	-21.84	Pass
802.11g	SISO	2412	1	0.42	-29.58	Pass
		2437	1	0.42	-29.58	Pass
		2462	1	0.42	-29.58	Pass
802.11n (HT20)	SISO	2412	1	0.42	-29.58	Pass
		2437	1	0.42	-29.58	Pass
		2462	1	0.42	-29.58	Pass
802.11n (HT40)	SISO	2422	1	-2.51	-32.51	Pass
		2437	1	-2.51	-32.51	Pass
		2452	1	-2.51	-32.51	Pass

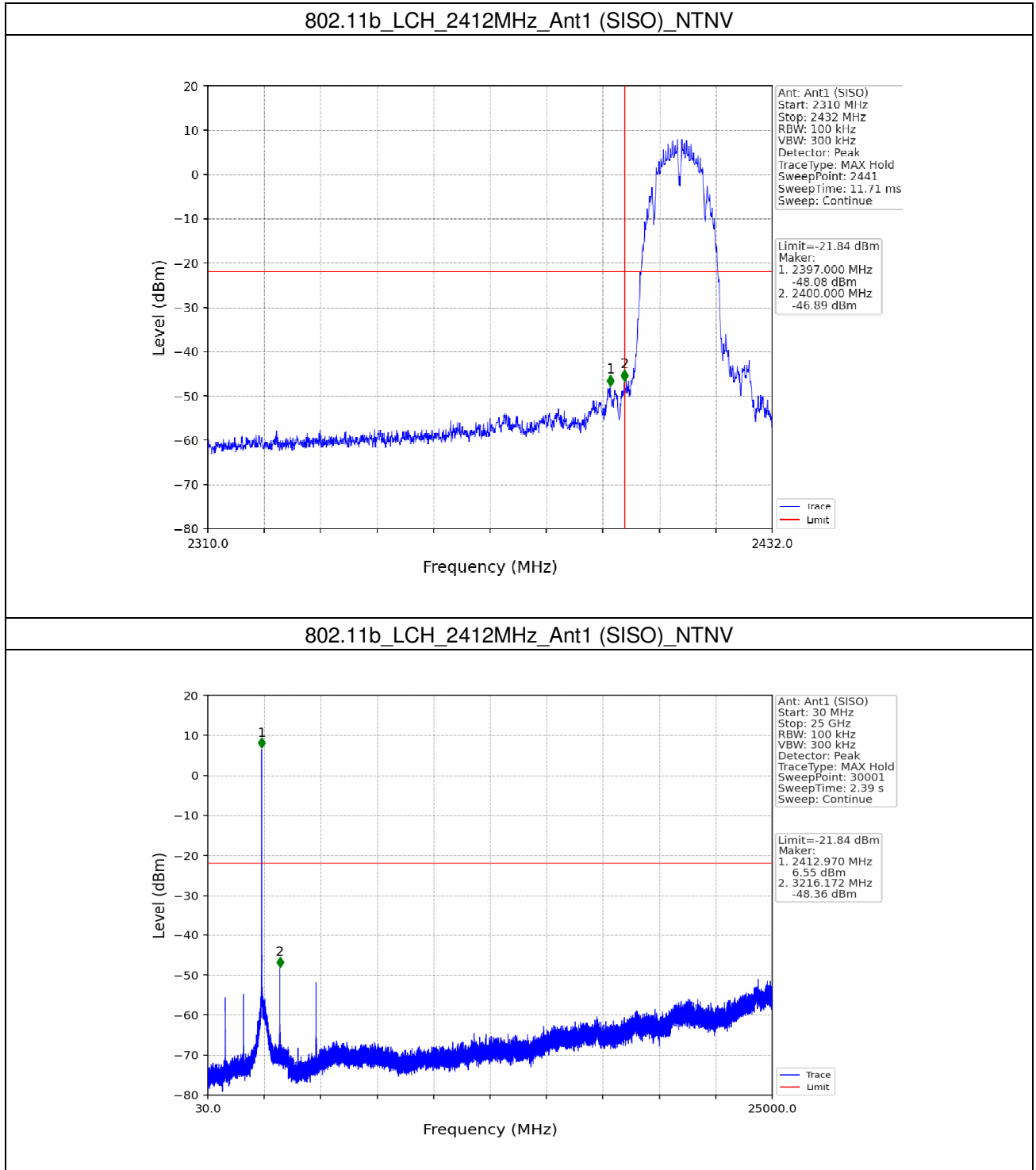


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5.2.2 Test Graph



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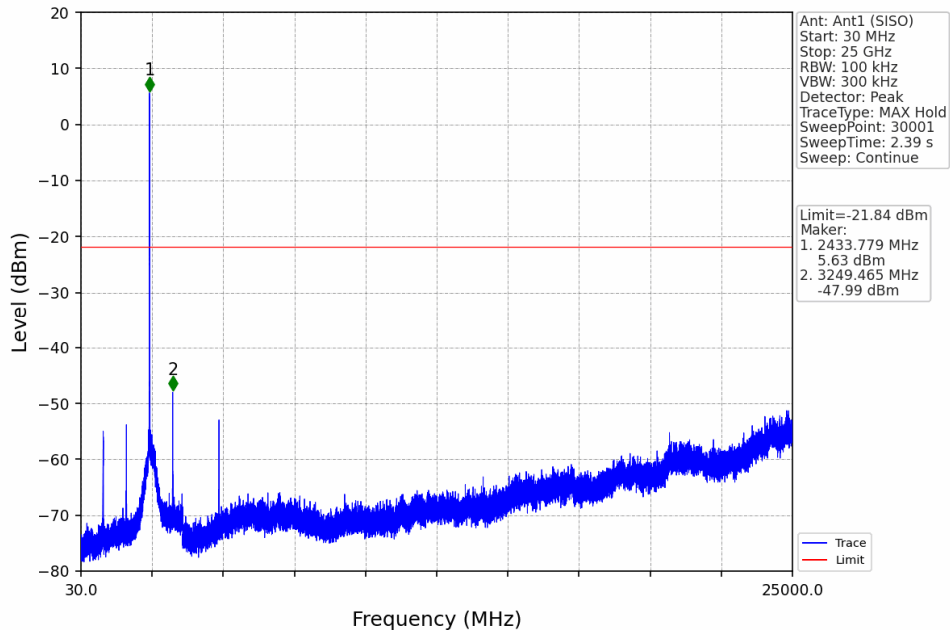
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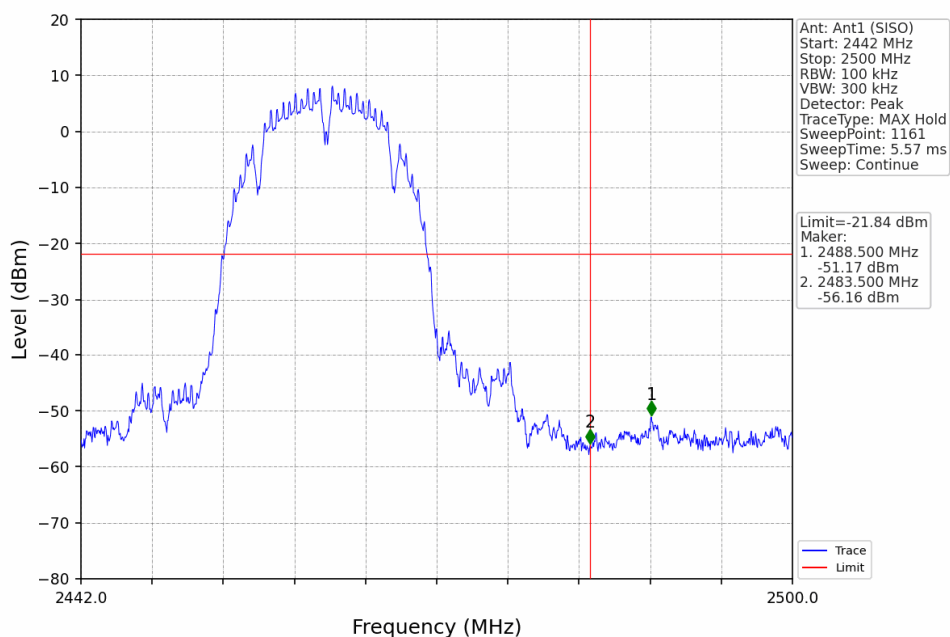
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Page: 110 of 118

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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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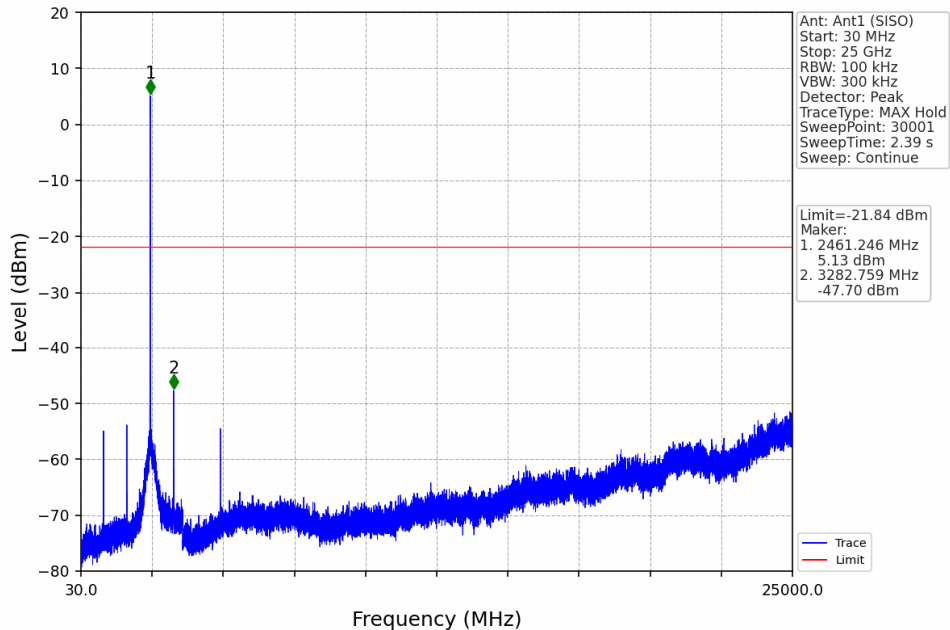
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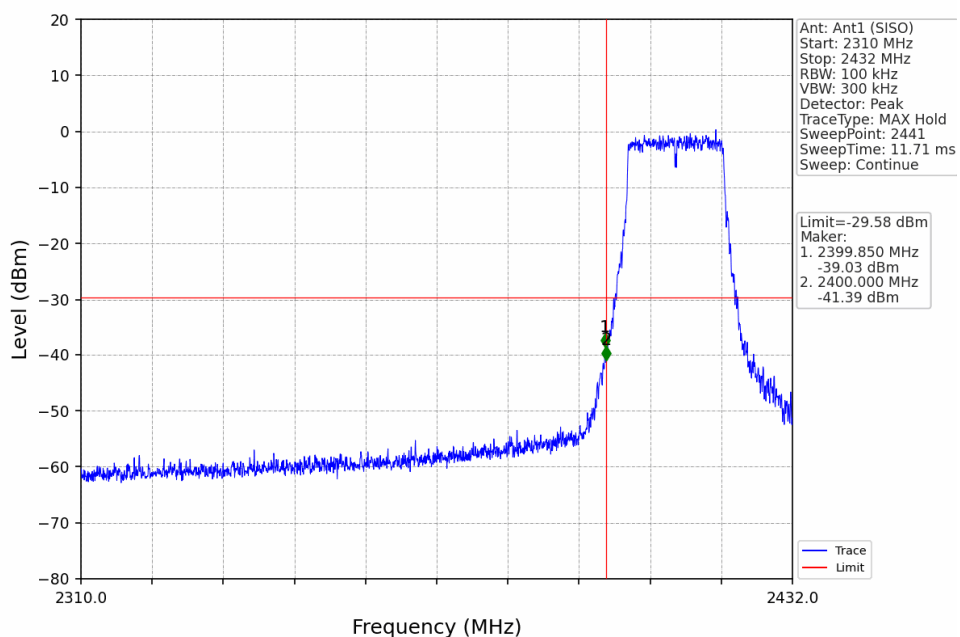
Report No.: FYCR221200048801

Page: 111 of 118

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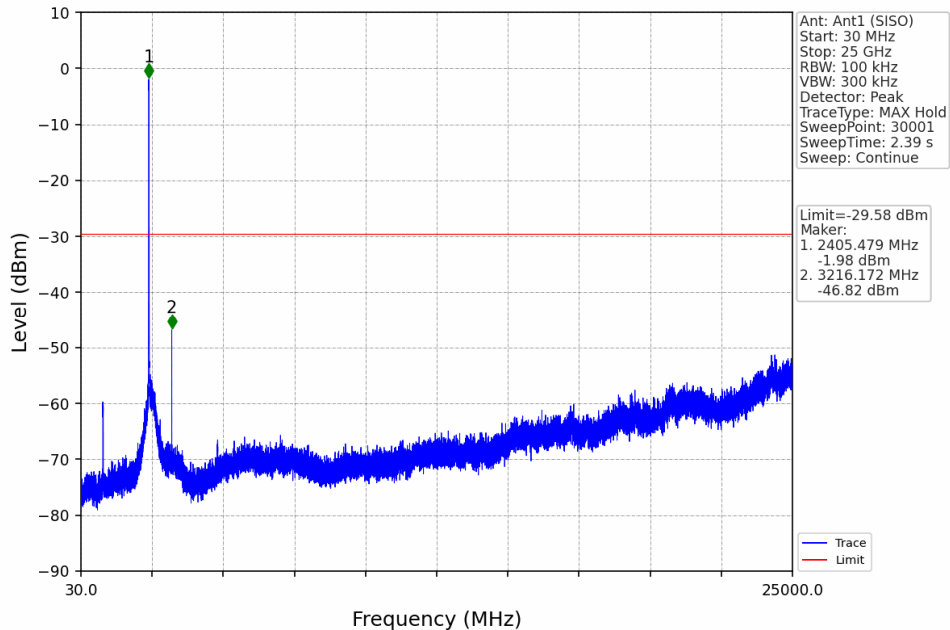
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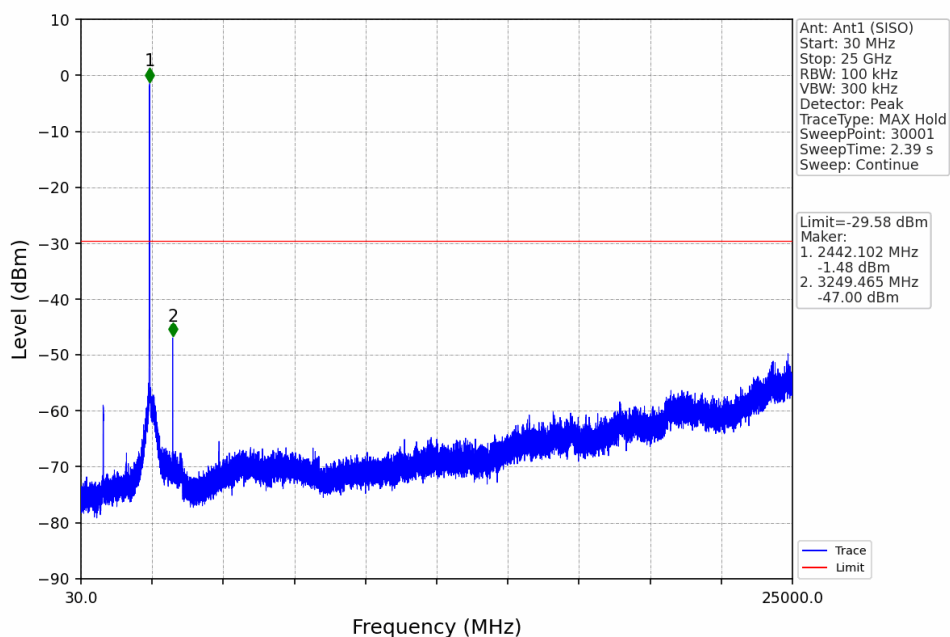
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Page: 112 of 118

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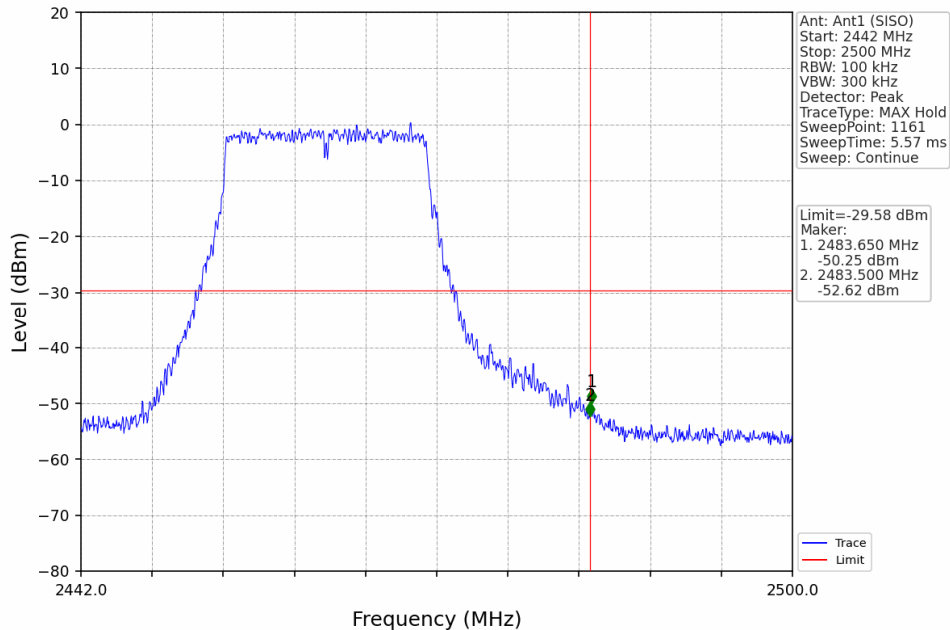
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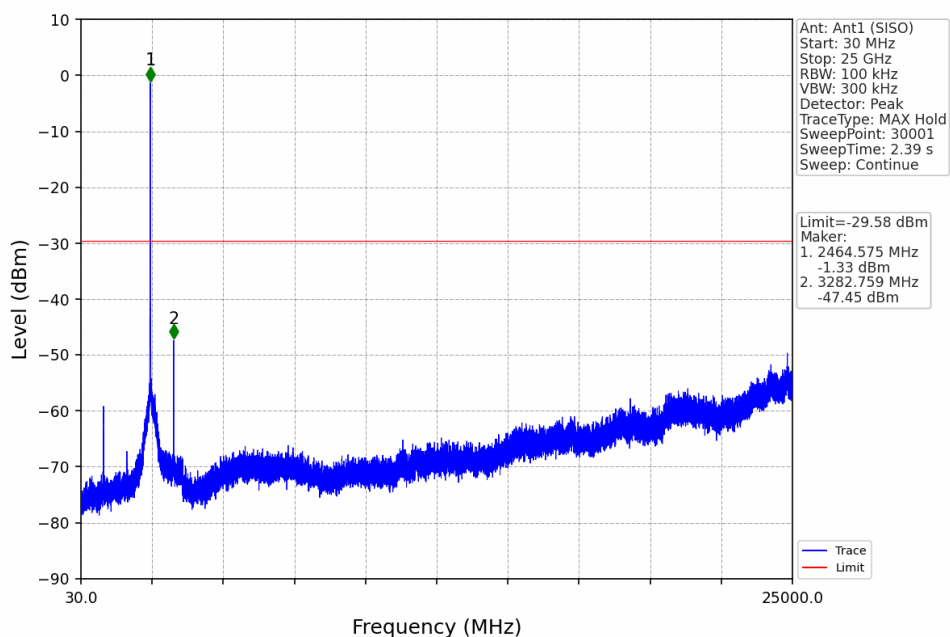
Report No.: FYCR221200048801

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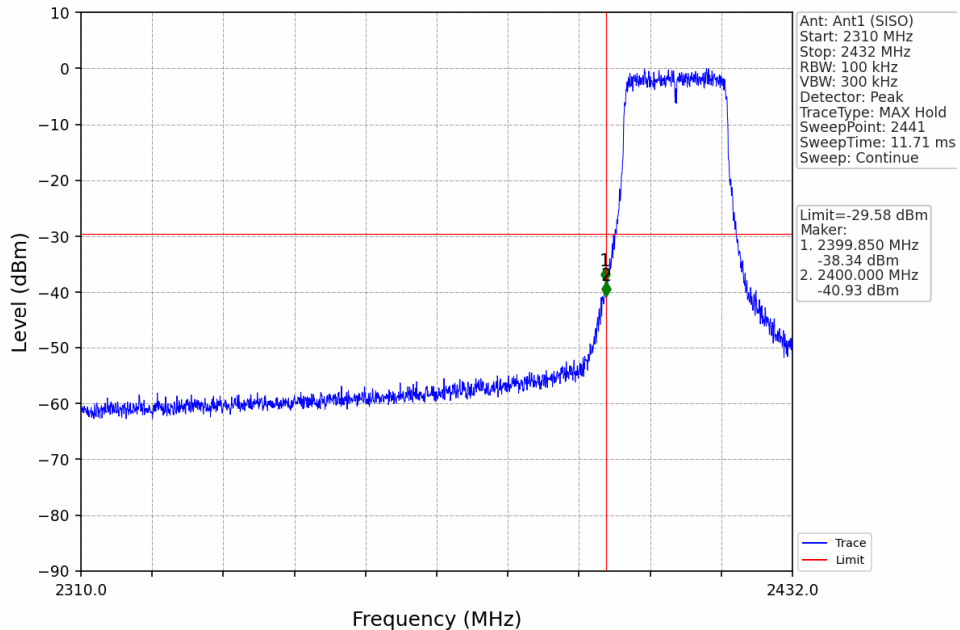
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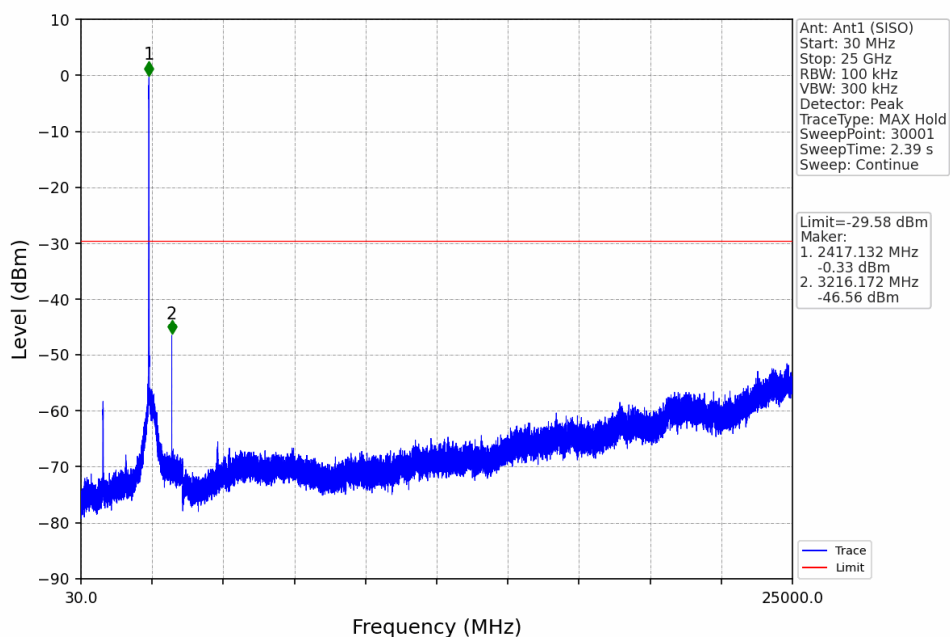
Report No.: FYCR221200048801

Page: 114 of 118

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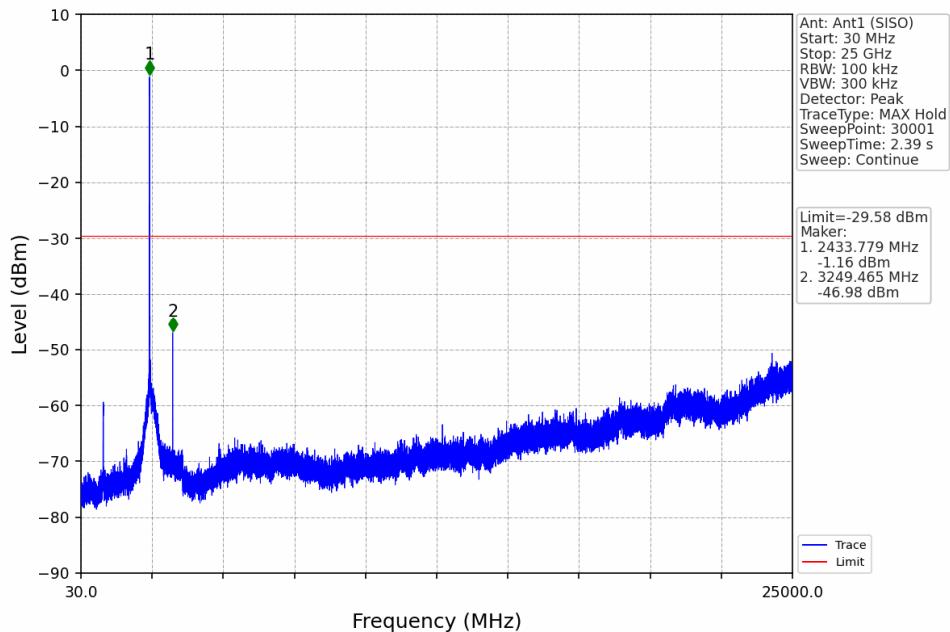
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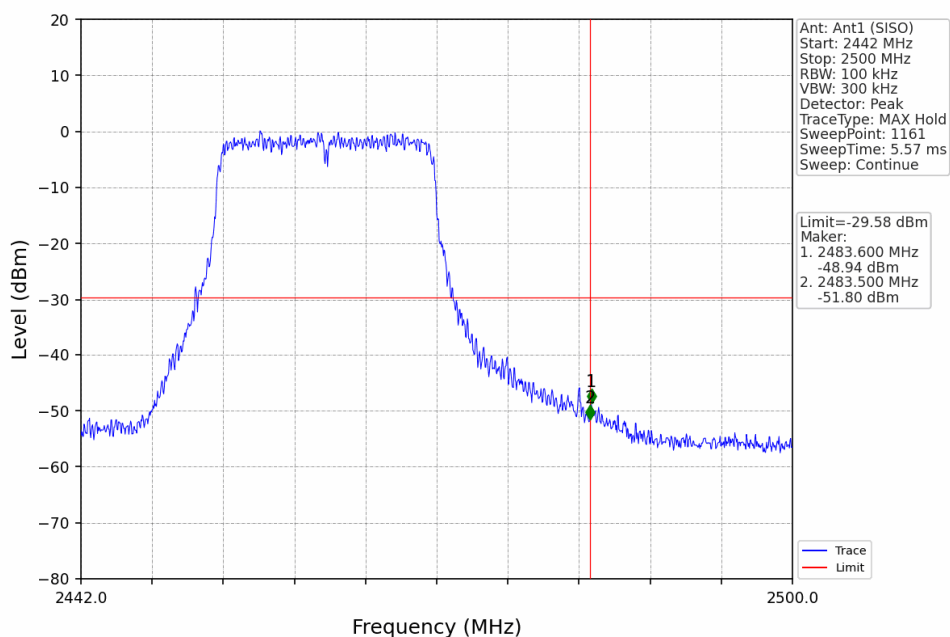
Report No.: FYCR221200048801

Page: 115 of 118

802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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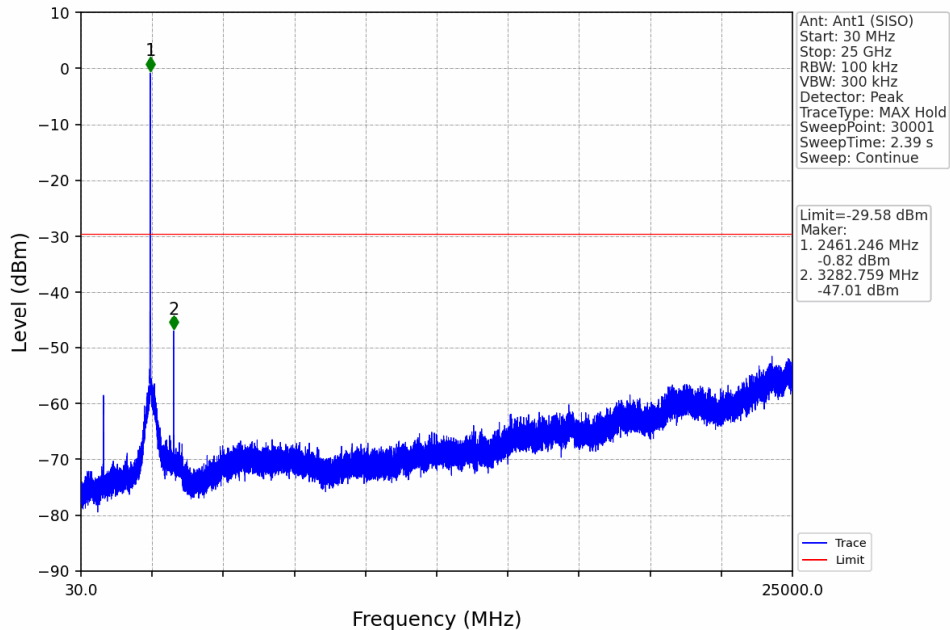
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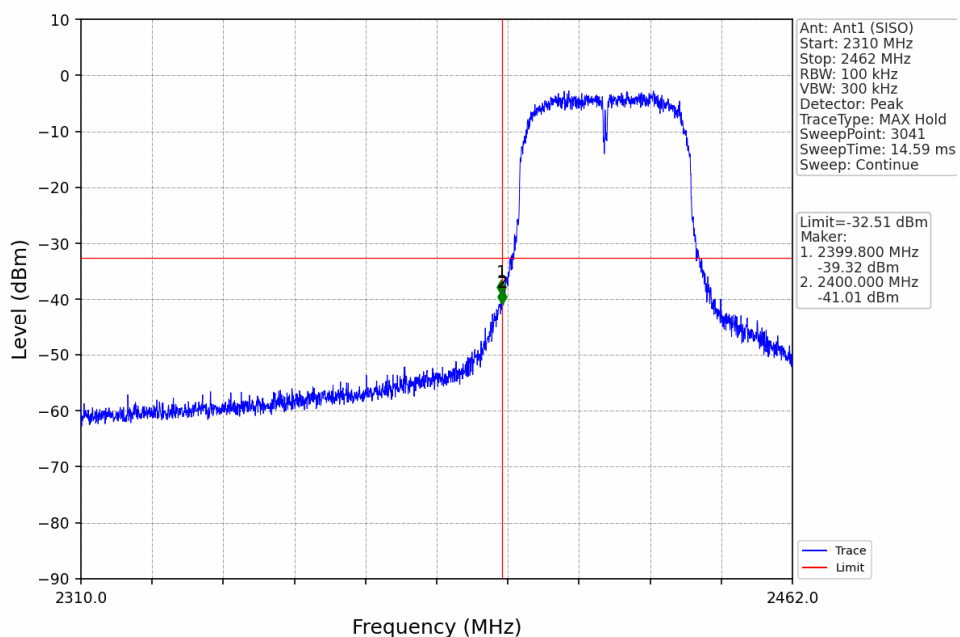
Report No.: FYCR221200048801

Page: 116 of 118

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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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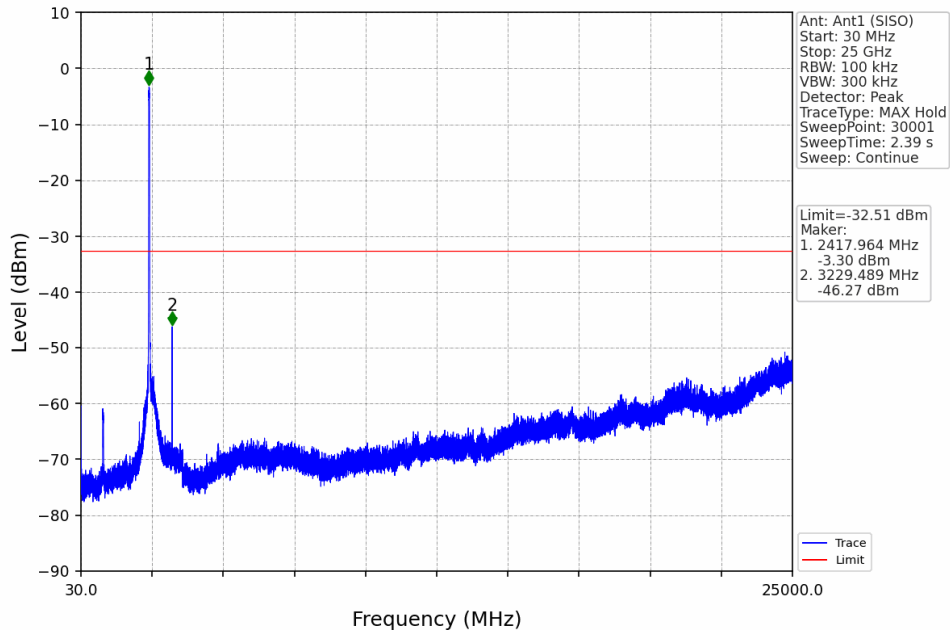
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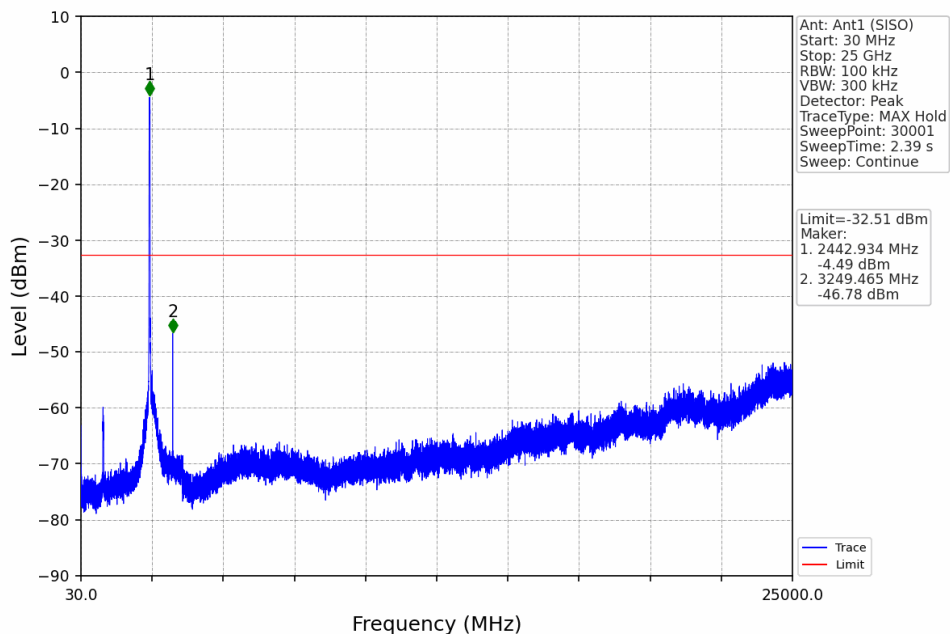
Report No.: FYCR221200048801

Page: 117 of 118

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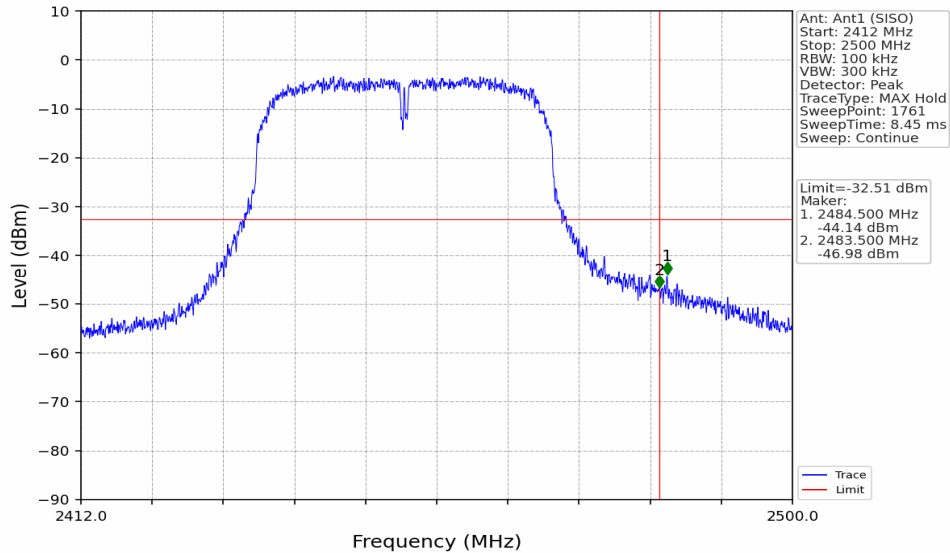
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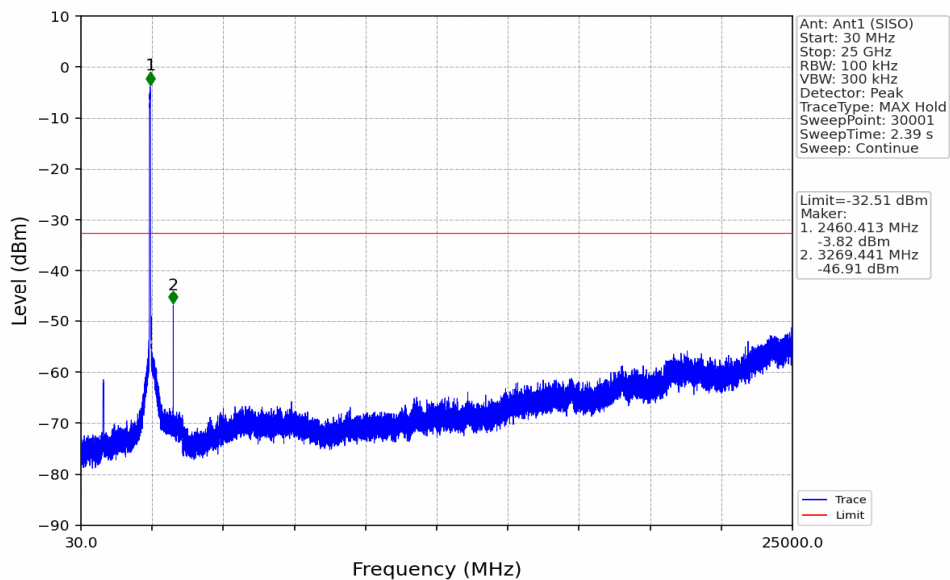
Report No.: FYCR221200048801

Page: 118 of 118

802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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- End of the Report -



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