

TEST REPORT

Application No.: FYCR2606000210MD

Applicant: Laservii (Shenzhen) Technology Co., Ltd.

Address of Applicant: Factory 201, Nankeng Second Industrial Zone, Nankeng Community, Bantian Street, Longgang, Shenzhen, Guangdong, China

Manufacturer: Laservii (Shenzhen) Technology Co., Ltd.

Address of Manufacturer: Factory 201, Nankeng Second Industrial Zone, Nankeng Community, Bantian Street, Longgang, Shenzhen, Guangdong, China

Factory: Laservii (Shenzhen) Technology Co., Ltd.

Address of Factory: Factory 201, Nankeng Second Industrial Zone, Nankeng Community, Bantian Street, Longgang, Shenzhen, Guangdong, China

Product Name: Laser Engraving Machine

Model No.: M1s, M1s-12W, M1s-24W, M1s IR-2W, M1s-36W, M1s Ultra, M1s Pro, M5, M5 Pro, M5 Ultra

☐ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

FCC ID: 2BVDR-M1SM5

Standard(s) : 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2026-08-25

Date of Test: 2026-08-25 to 2026-08-25

Date of Issue: 2026-08-31

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



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SZCCS-TRF-01 Rev. A/2

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-08-31		Original

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
Approved By		Tree Zhan		
		Tree Zhan/Reviewer		



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2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10-2020+COR.1-2023 Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10-2020+COR.1-2023 Section 6.10.5 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10-2020+COR.1-2023 Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10-2020+COR.1-2023 Section 6.6 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Maximum Conducted Output Power		ANSI C63.10-2020+COR.1-2023 Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10-2020+COR.1-2023 Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectral Density		ANSI C63.10-2020+COR.1-2023 Section 11.10.3	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10-2020+COR.1-2023 Section 6.10.4	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10-2020+COR.1-2023 Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

N/A means Not applicable, please find the detailed decision rule in the report relative section.



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■ Declaration of EUT Family Grouping:

Model No.: M1s, M1s-12W, M1s-24W, M1s IR-2W, M1s-36W, M1s Ultra, M1s Pro, M5, M5 Pro, M5 Ultra

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the laser module.

Therefore only one model M1s was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply: MODEL: FY1202405000
INPUT: AC 100-240V 50/60Hz
OUTPUT: DC 24V 5A

Test voltage: AC 120V 60Hz

Cable(s): AC mains, 3 wires, 2.0m, unshielded.

Test Voltage: AC 120 V 60 Hz

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz;
802.11n(HT40): 2422MHz to 2452MHz

Modulation Type: 802.11b: DSSS (DBPSK, DQPSK, CCK);
802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)

Number of Channels: 802.11b/g/n(HT20):11;
802.11n(HT40):7

Channel Spacing: 5MHz

Antenna Type: FPC Antenna

Antenna Gain: 2dBi according to antenna specification

Antenna Number: 1

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

4.2 Description of Support Units

The EUT has been tested as an independent unit.



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±3.2dB
Radiated Emissions which fall in the restricted bands	± 4.7dB
Radiated Spurious Emissions Below 1GHz	± 5.7dB
Radiated Spurious Emissions Above 1GHz	± 4.7dB (1-18GHz); ± 4.7dB (18-40GHz)
Maximum Conducted Output Power	2.4G:± 0.80dB; 5G:± 0.43dB
Minimum 6dB Bandwidth	2.4G: ± 0.34%; 5G: ± 0.27%
Power Spectral Density	2.4G:± 0.35dB; 5G:± 0.38dB
Conducted Band Edges Measurement	± 2.7dB
Conducted Spurious Emissions	± 2.7dB
Remark: The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty). Emission decision rule: – Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report. – Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.	

4.4 Test Location

All tests were performed at:

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

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No tests were sub-contracted.



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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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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2025-10-13	2028-10-12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2026-02-05	2027-02-04
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM033-02	2026-05-12	2027-05-11
LISN	Rohde & Schwarz	ENV216	SEM007-24	2026-02-05	2027-02-04
LISN	Rohde & Schwarz	ESH3-Z5	SEM007-22	2026-02-05	2027-02-04

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026-03-04	2027-03-03
Horn Antenna	Schwarzbeck	BBHA 9120 D	SEM003-54	2025-05-24	2028-05-23
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-29	2028-07-28
Pre-amplifier(0.4GHz-8GHz)	TST	LNA04080G30	SEM005-27	2026-02-05	2027-02-04
Pre-amplifier(1GHz-18GHz)	TST	LNA10180G45	SEM005-28	2026-02-05	2027-02-04
Pre-amplifier(1GHz-18GHz)	TST	LNA10180G60	SEM005-32	2026-04-04	2027-04-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM035-02	2026-05-12	2027-05-11
Coaxial Cable	SGS	N/A	SEM035-03	2026-05-12	2027-05-11



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Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi- Anechoic Chambe	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2026-07-03	2027-07-02
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-26	2025-09-03	2027-09-02
Pre-Amplifier	HP	8447D	SEM005-02	2026-07-07	2027-07-06
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM035-01	2026-05-12	2027-05-11
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-43	2025-06-16	2027-06-15

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026-03-04	2027-03-03
Horn Antenna	Schwarzbeck	BBHA 9120 D	SEM003-54	2025-05-24	2028-05-23
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-29	2028-07-28
Pre-amplifier(0.4GHz-8GHz)	TST	LNA04080G30	SEM005-27	2026-02-05	2027-02-04
Pre-amplifier(1GHz-18GHz)	TST	LNA10180G45	SEM005-28	2026-02-05	2027-02-04
Pre-amplifier(1GHz-18GHz)	TST	LNA10180G60	SEM005-32	2026-04-04	2027-04-03
Pre-amplifier(18GHz-40GHz)	TST	LNA180400G40	SEM005-39	2026-04-29	2027-04-28
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM035-02	2026-05-12	2027-05-11
Coaxial Cable	SGS	N/A	SEM035-03	2026-05-12	2027-05-11



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RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-43	2025-06-16	2027-06-15
Shielding Room	CRT	N/A	SEM001-14	2025-10-13	2028-10-12
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2026-02-04	2027-02-03
MXA Signal Analyzer(10Hz-50GHz)	KEYSIGHT	N9020B	SEM004-24	2026-02-03	2027-02-02
MXA Signal Analyzer(20Hz-26.5GHz)	KEYSIGHT	N9020A	SEM004-25	2026-02-03	2027-02-02
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM037-01	2026-05-12	2027-05-11
Manual Step Attenuator	Agilent	8494B	SEM021-05	2026-02-02	2027-02-01
Manual Step Attenuator	Agilent	8496B	SEM021-06	2026-02-02	2027-02-01
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026-02-02	2027-02-01
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026-02-03	2027-02-02
Signal Generator(9kHz-40GHz)	Agilent	N5173B	SEM006-05	2026-03-31	2027-03-30
Vector Signal Generator(100kHz-7.5GHz)	Rohde & Schwarz	SMW200A	SEM006-19	2026-07-06	2027-07-05
MXG Vector Signal Generator(100kHz-6GHz)	Agilent	N5182A	SEM006-21	2026-02-03	2027-02-02
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2026-02-03	2027-02-02
Radio Communication Analyzer	Anritsu	MT8821C	SEM010-04	2026-02-04	2027-02-03
Radio Communication Test Station	Anritsu	MT8000A	SZ-WRG-M-013	2026-04-28	2027-04-27

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/Temperature Indicator	deli	8838	SEM002-52	2026-07-08	2027-07-07
Humidity/Temperature Indicator	deli	8838	SEM002-53	2026-07-08	2027-07-07
Barometer	DUMAI	DYM3	SEM002-24	2026-07-10	2027-07-09



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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 2 dBi.

Antenna location:

Refer to internal photo.



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7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 6.2
 Test Engineer: Rex Liu
 Limit:

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

7.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.7 °C Humidity: 54.9 % RH Atmospheric Pressure: 1005 mbar

7.1.2 Test Mode Description

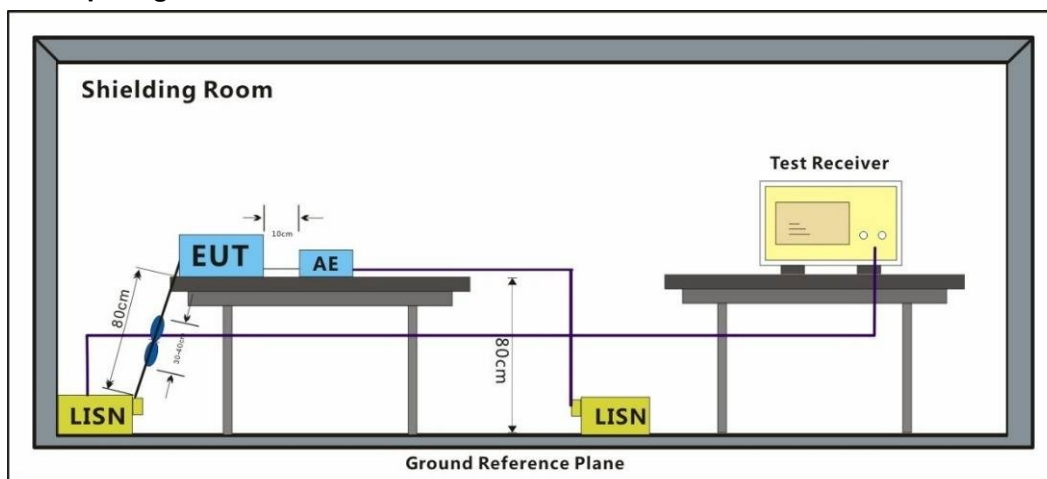
Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case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



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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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

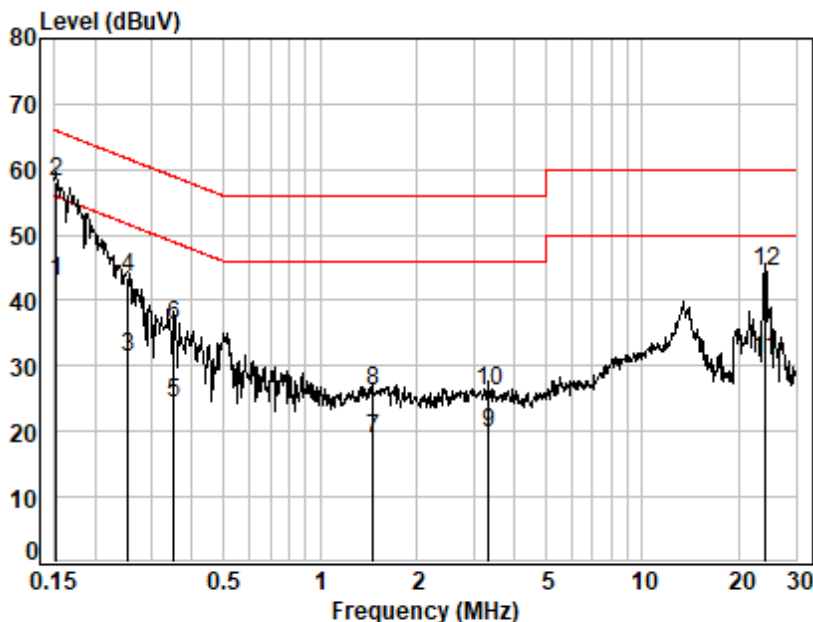


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Test Mode: 00; Line: Live line



Site : Shielding Room

Condition: LINE

Job No. :

Test mode:

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1516	0.02	9.82	33.14	42.98	55.91	-12.93	Average
2	0.1516	0.02	9.82	48.12	57.96	65.91	-7.95	QP
3	0.2535	0.03	9.77	21.67	31.47	51.64	-20.17	Average
4	0.2535	0.03	9.77	33.83	43.63	61.64	-18.01	QP
5	0.3520	0.05	9.52	14.76	24.33	48.91	-24.58	Average
6	0.3520	0.05	9.52	26.78	36.35	58.91	-22.56	QP
7	1.4485	0.04	9.61	9.33	18.98	46.00	-27.02	Average
8	1.4485	0.04	9.61	16.60	26.25	56.00	-29.75	QP
9	3.3105	0.04	9.78	9.92	19.74	46.00	-26.26	Average
10	3.3105	0.04	9.78	16.28	26.10	56.00	-29.90	QP
11	24.0148	0.07	9.79	21.08	30.94	50.00	-19.06	Average
12	24.0148	0.07	9.79	34.53	44.39	60.00	-15.61	QP

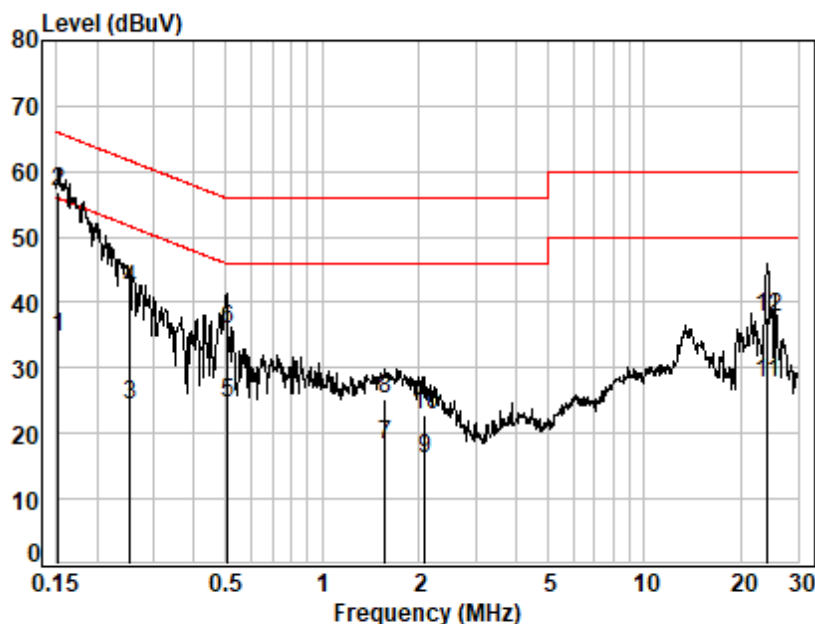


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Test Mode: 00; Line: Neutral Line



Site : Shielding Room

Condition: NEUTRAL

Job No. :

Test mode:

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1516	0.02	9.65	25.06	34.73	55.91	-21.18	Average
2	0.1516	0.02	9.65	47.09	56.76	65.91	-9.15	QP
3	0.2535	0.03	9.61	14.83	24.47	51.64	-27.17	Average
4	0.2535	0.03	9.61	32.28	41.92	61.64	-19.72	QP
5	0.5047	0.06	9.73	14.85	24.64	46.00	-21.36	Average
6	0.5047	0.06	9.73	26.06	35.85	56.00	-20.15	QP
7	1.5684	0.04	9.78	8.30	18.12	46.00	-27.88	Average
8	1.5684	0.04	9.78	15.56	25.38	56.00	-30.62	QP
9	2.0659	0.04	9.82	6.14	16.00	46.00	-30.00	Average
10	2.0659	0.04	9.82	13.05	22.91	56.00	-33.09	QP
11	24.0148	0.07	9.72	17.78	27.57	50.00	-22.43	Average
12	24.0148	0.07	9.72	27.82	37.61	60.00	-22.39	QP



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7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 6.10.5 & 11.12
 Test Engineer: Rex Liu
 Limit:
 Test Distance: 3 m

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

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

7.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.7 °C Humidity: 54.9 % RH Atmospheric Pressure: 1005 mbar

7.2.2 Test Mode Description

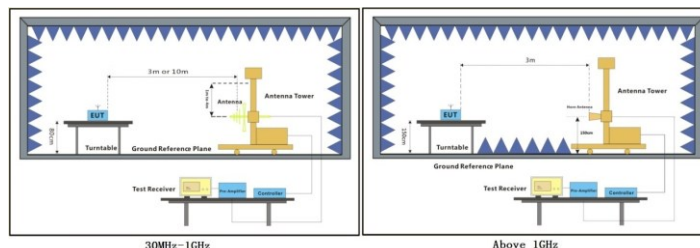
Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case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



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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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

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

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

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

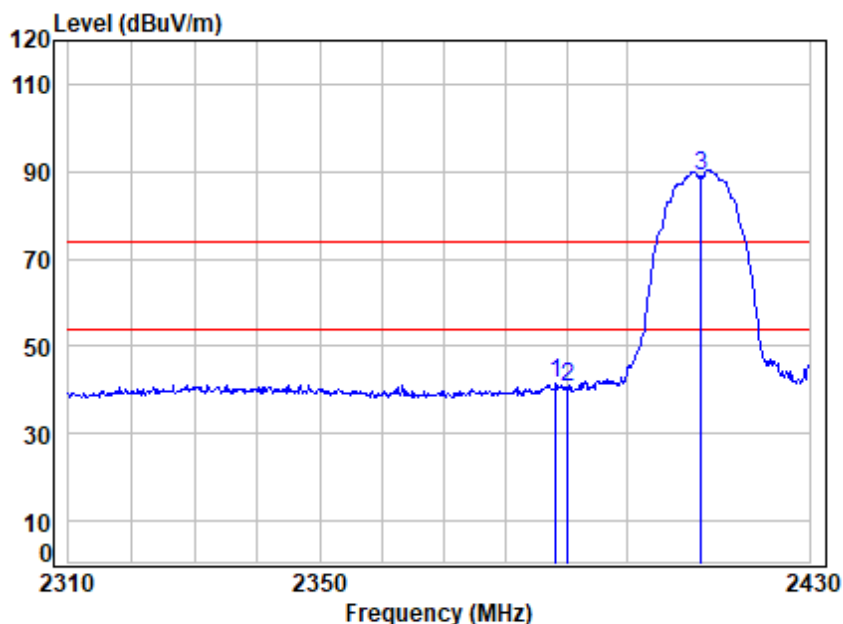


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2388.154	7.04	27.12	32.96	40.40	41.60	74.00	-32.40	peak	0.00
2	2390.000	7.04	27.12	32.96	39.22	40.42	74.00	-33.58	peak	0.00
3 pp	2412.000	7.05	27.20	32.95	87.82	89.12	74.00	15.12	peak	0.00

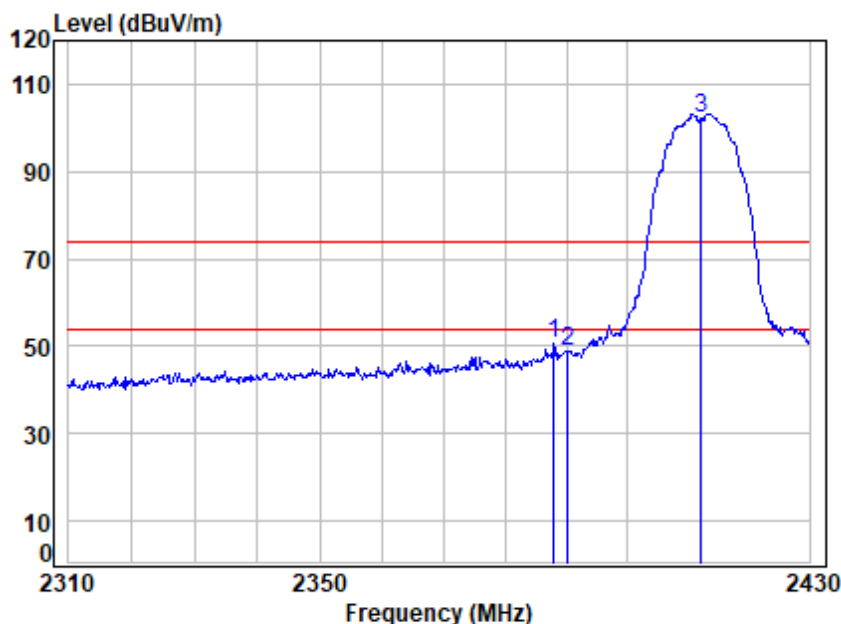


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2387.912	7.04	27.12	32.96	49.59	50.79	74.00	-23.21	peak	0.00
2	2390.000	7.04	27.12	32.96	47.73	48.93	74.00	-25.07	peak	0.00
3 pp	2412.000	7.05	27.20	32.95	100.78	102.08	74.00	28.08	peak	0.00

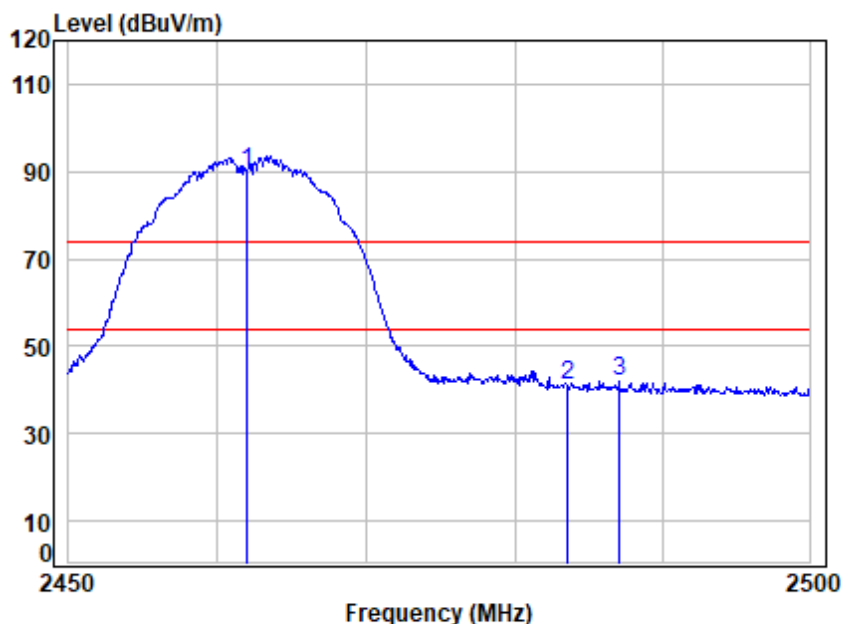


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2462.000	7.07	27.57	32.92	88.23	89.95	74.00	15.95	peak	0.00
2	2483.500	7.07	27.70	32.91	39.25	41.11	74.00	-32.89	peak	0.00
3	2487.053	7.08	27.72	32.91	40.31	42.20	74.00	-31.80	peak	0.00

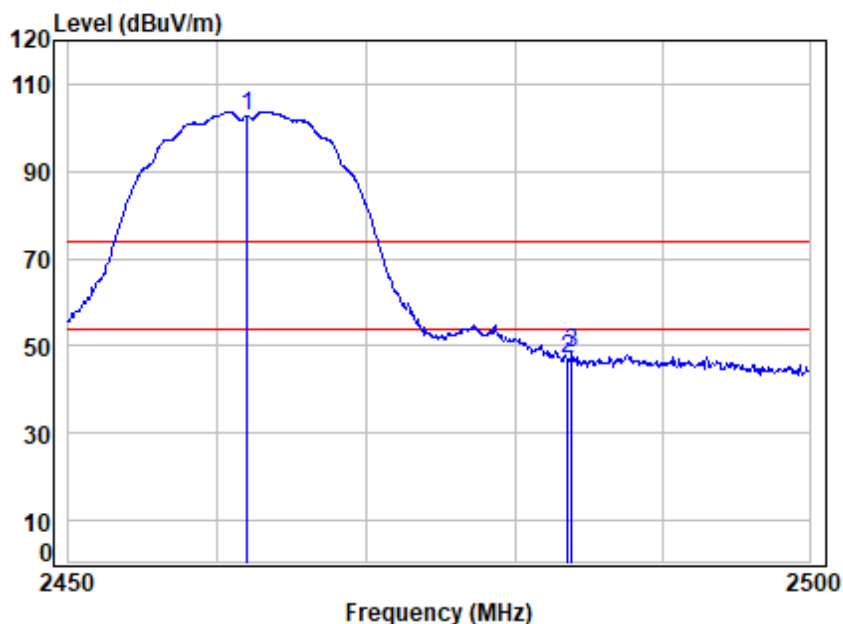


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2462.000	7.07	27.57	32.92	100.96	102.68	74.00	28.68	peak	0.00
2	2483.500	7.07	27.70	32.91	44.99	46.85	74.00	-27.15	peak	0.00
3	2483.890	7.07	27.70	32.91	46.37	48.23	74.00	-25.77	peak	0.00



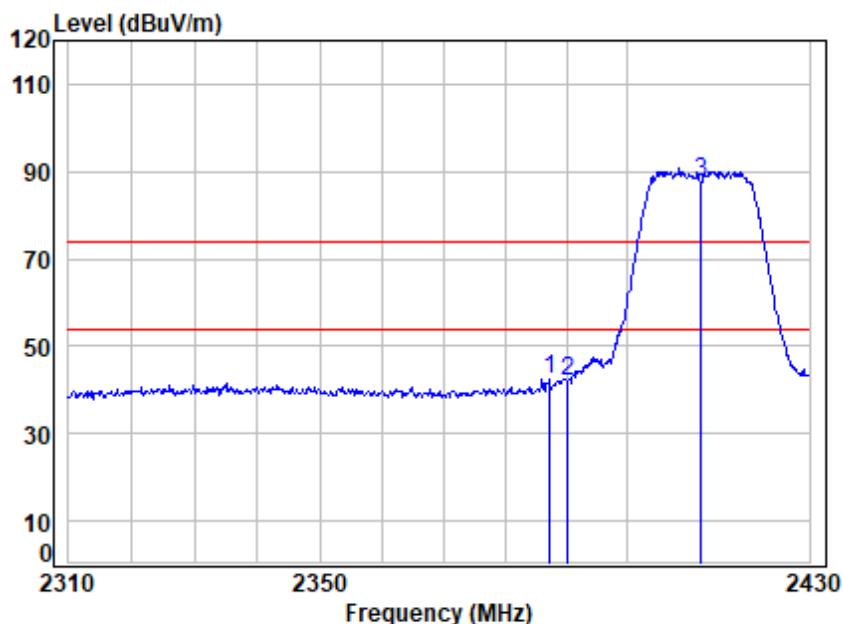
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2387.186	7.04	27.13	32.96	41.11	42.32	74.00	-31.68	peak	0.00
2	2390.000	7.04	27.12	32.96	40.82	42.02	74.00	-31.98	peak	0.00
3 pp	2412.000	7.05	27.20	32.95	86.41	87.71	74.00	13.71	peak	0.00

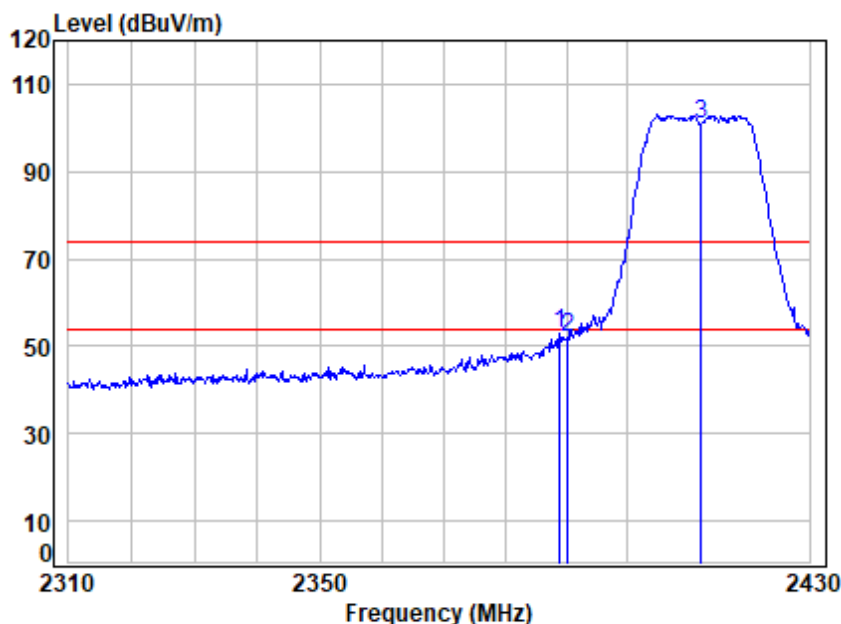


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2388.879	7.04	27.12	32.96	51.61	52.81	74.00	-21.19	peak	0.00
2	2390.000	7.04	27.12	32.96	50.68	51.88	74.00	-22.12	peak	0.00
3	pp 2412.000	7.05	27.20	32.95	99.46	100.76	74.00	26.76	peak	0.00

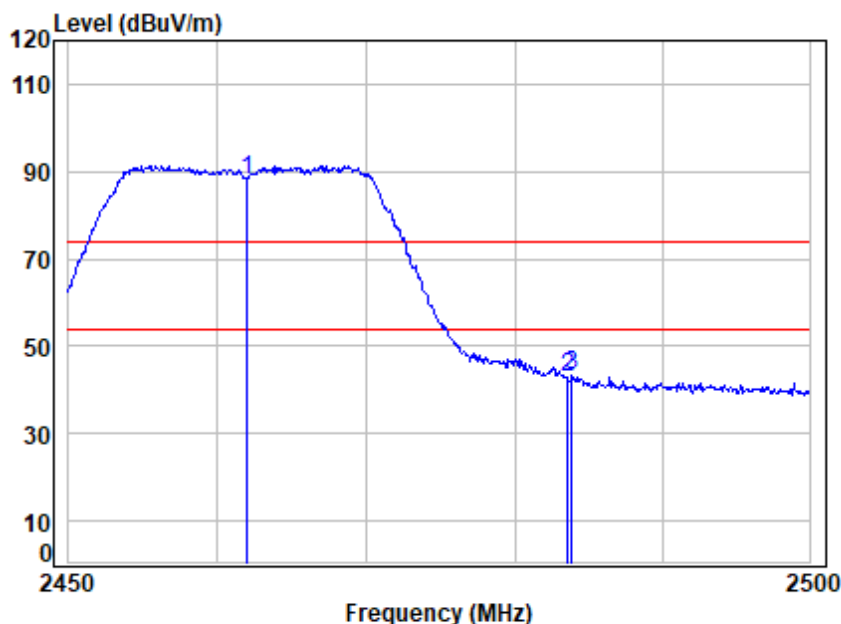


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2462.000	7.07	27.57	32.92	86.44	88.16	74.00	14.16	peak	0.00
2	2483.500	7.07	27.70	32.91	40.92	42.78	74.00	-31.22	peak	0.00
3	2483.890	7.07	27.70	32.91	41.39	43.25	74.00	-30.75	peak	0.00



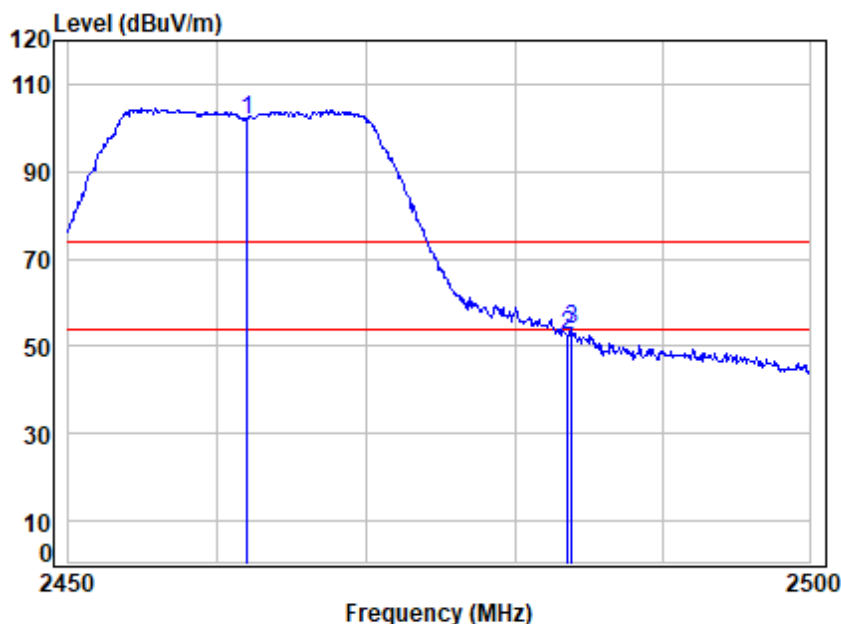
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2462.000	7.07	27.57	32.92	100.15	101.87	74.00	27.87	peak	0.00
2	2483.500	7.07	27.70	32.91	50.70	52.56	74.00	-21.44	peak	0.00
3	2483.890	7.07	27.70	32.91	51.94	53.80	74.00	-20.20	peak	0.00



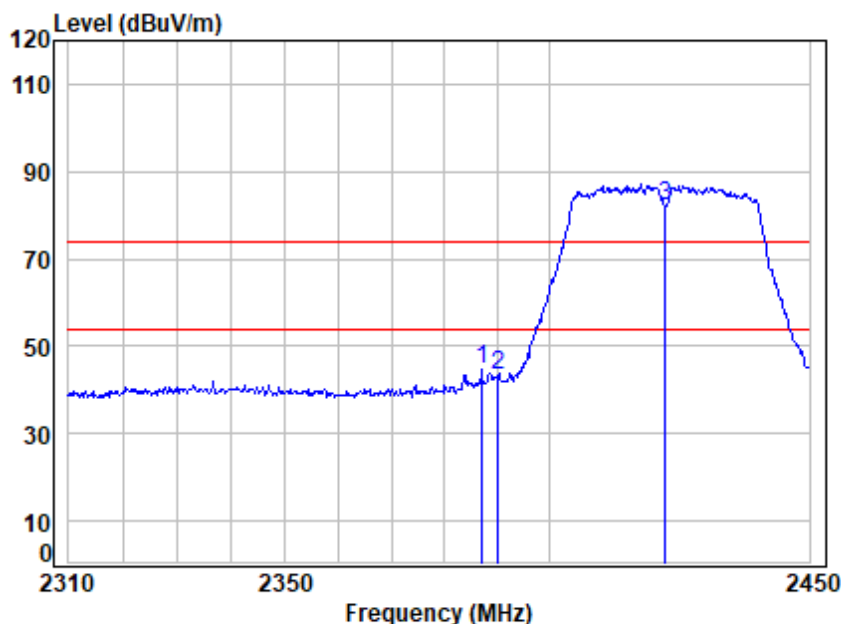
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2387.103	7.04	27.13	32.96	43.62	44.83	74.00	-29.17	peak	0.00
2	2390.000	7.04	27.12	32.96	42.17	43.37	74.00	-30.63	peak	0.00
3 pp	2422.000	7.05	27.28	32.94	80.74	82.13	74.00	8.13	peak	0.00

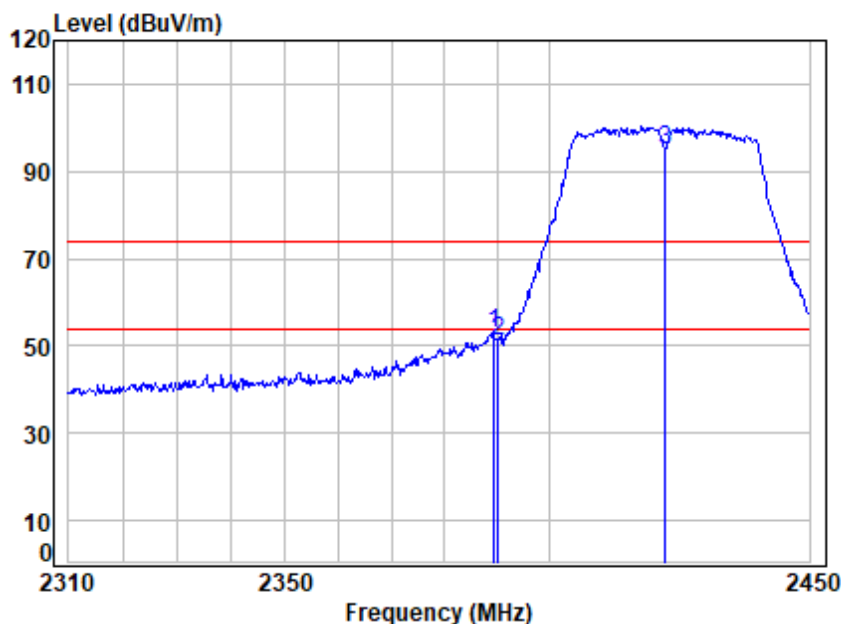


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.211	7.04	27.12	32.96	51.94	53.14	74.00	-20.86	peak	0.00
2	2390.000	7.04	27.12	32.96	50.00	51.20	74.00	-22.80	peak	0.00
3 pp	2422.000	7.05	27.28	32.94	93.57	94.96	74.00	20.96	peak	0.00

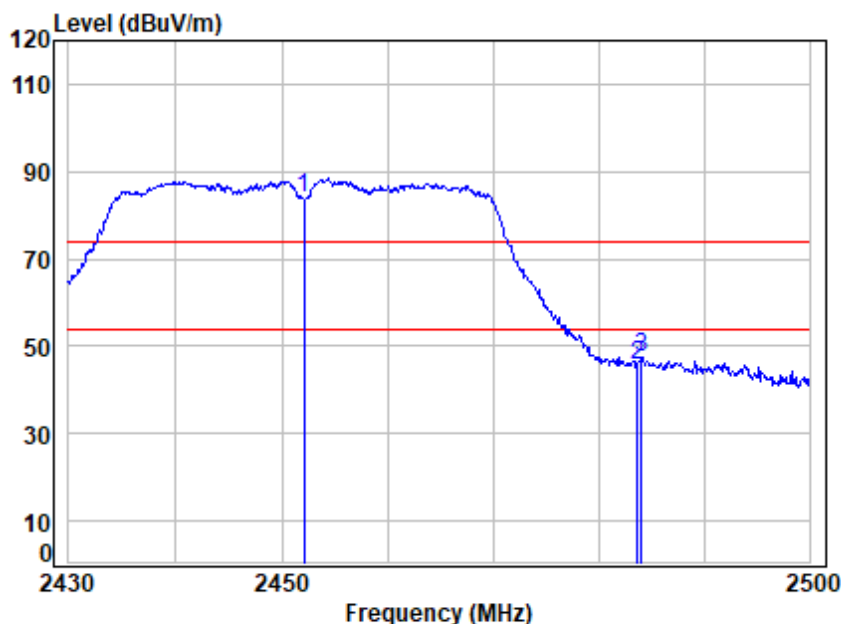


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2452.000	7.06	27.51	32.93	82.18	83.82	74.00	9.82	peak	0.00
2	2483.500	7.07	27.70	32.91	43.76	45.62	74.00	-28.38	peak	0.00
3	2484.006	7.07	27.70	32.91	45.78	47.64	74.00	-26.36	peak	0.00



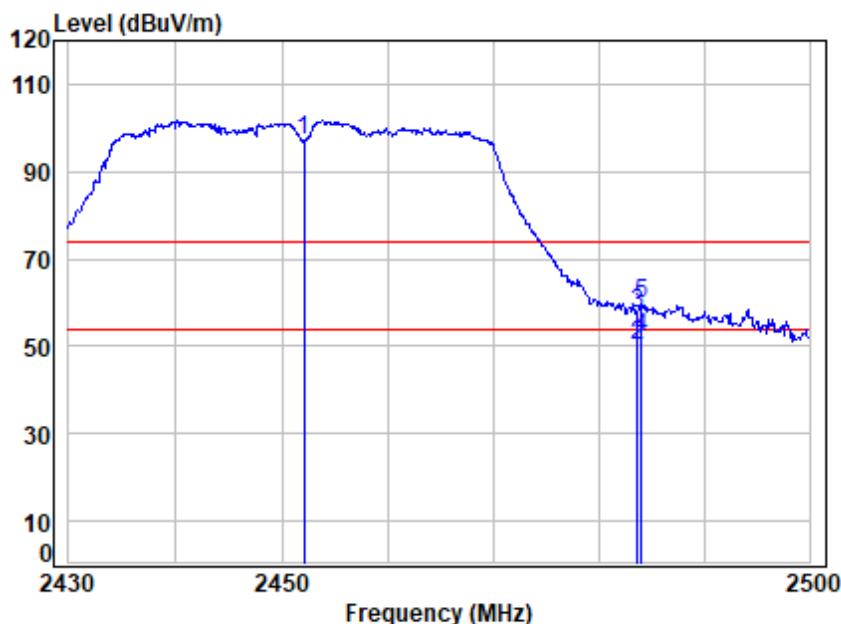
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2452.000	7.06	27.51	32.93	95.39	97.03	74.00	23.03	peak	0.00
2	2483.500	7.07	27.70	32.91	48.21	50.07	54.00	-3.93	Average	0.00
3	2483.500	7.07	27.70	32.91	55.73	57.59	74.00	-16.41	peak	0.00
4	av 2484.006	7.07	27.70	32.91	50.37	52.23	54.00	-1.77	Average	0.00
5	2484.006	7.07	27.70	32.91	57.94	59.80	74.00	-14.20	peak	0.00



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7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 6.4,6.5
 Test Engineer: Rex Liu
 Limit:
 Test Distance: 3m

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

Note

1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Limit = The limit above - Aux Factor (if applicable)

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.7 °C Humidity: 54.9 % RH Atmospheric Pressure: 1005 mbar



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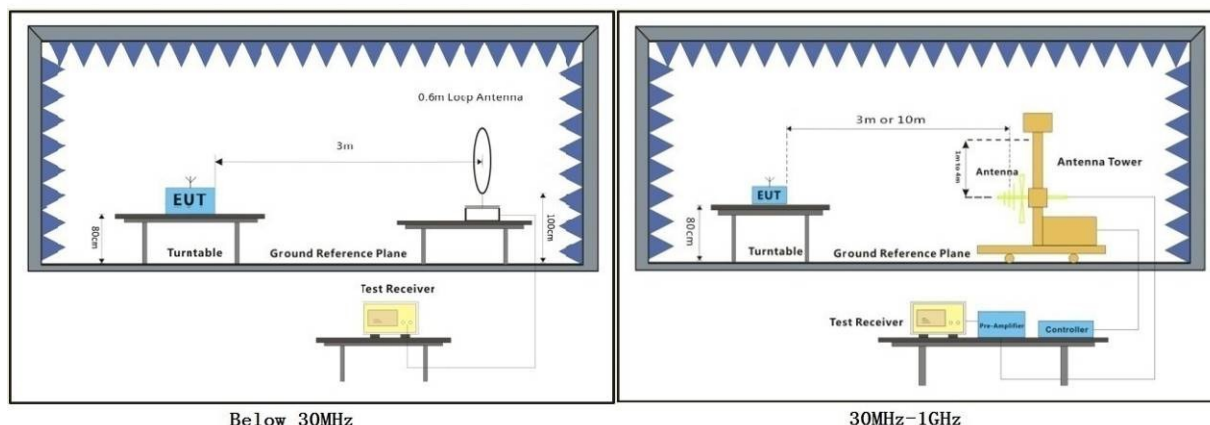
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7.3.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	

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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7.3.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz



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7.3.4 Measurement Procedure and Data

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

Remark:

- 1 Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
2. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

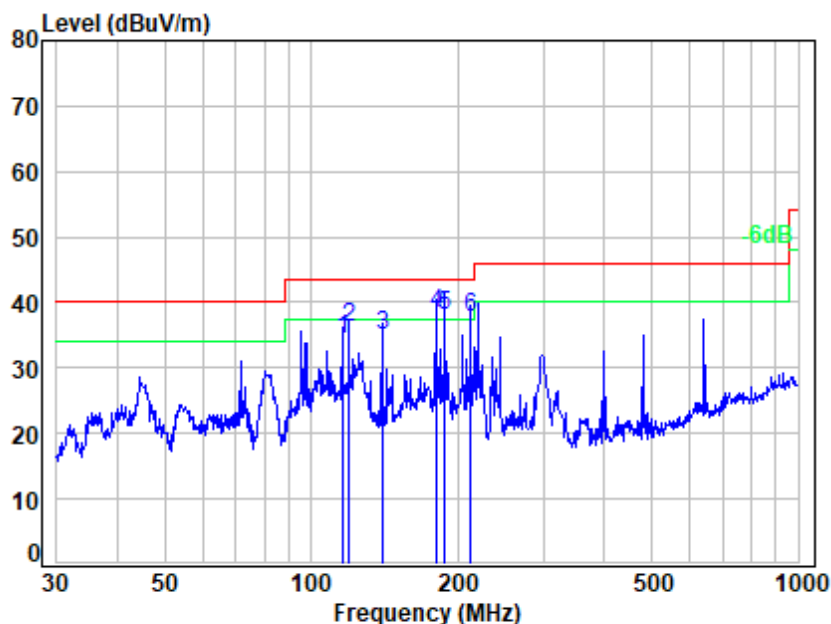


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Test Mode: 00; Polarity: Horizontal



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

	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	116.132	1.30	14.78	25.80	44.03	34.31	43.50	-9.19	QP
2	119.436	1.40	15.09	25.79	45.60	36.30	43.50	-7.20	QP
3	139.851	1.38	16.81	25.69	42.43	34.93	43.50	-8.57	QP
4	180.017	0.60	15.68	25.53	47.69	38.44	43.50	-5.06	QP
5	187.998	0.88	14.76	25.50	47.76	37.90	43.50	-5.60	QP
6	212.270	1.02	13.96	25.42	48.08	37.64	43.50	-5.86	QP

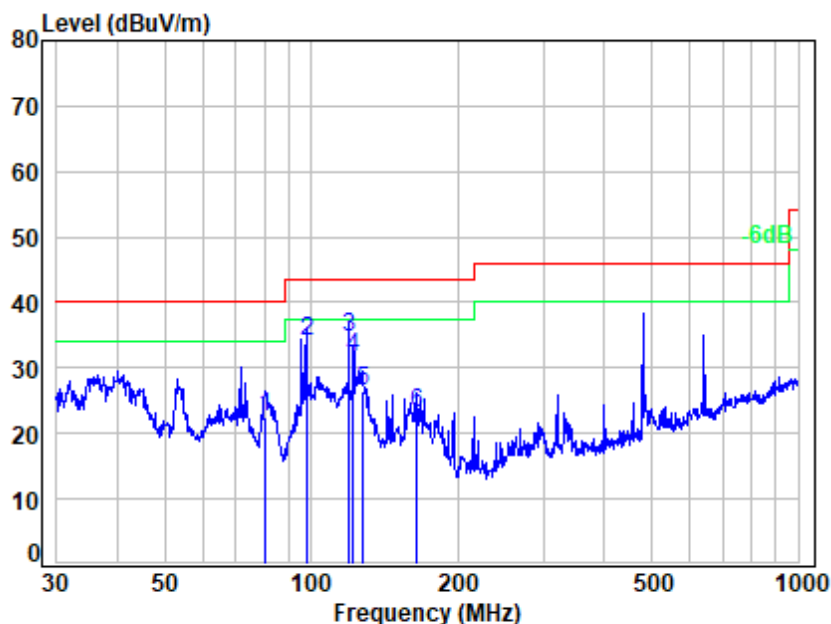


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Test Mode: 00; Polarity: Vertical



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

		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	80.644	0.71	13.01	26.09	34.90	22.53	40.00	-17.47 QP
2	97.798	0.57	12.47	25.92	46.84	33.96	43.50	-9.54 QP
3	119.436	1.40	15.09	25.79	44.10	34.80	43.50	-8.70 QP
4	121.976	1.42	15.31	25.77	40.56	31.52	43.50	-11.98 QP
5	127.665	1.40	15.80	25.74	34.94	26.40	43.50	-17.10 QP
6	163.755	1.10	17.17	25.59	30.34	23.02	43.50	-20.48 QP



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7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 6.6 & 11.12
 Test Engineer: Rex Liu
 Limit:

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

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.7 °C Humidity: 54.9 % RH Atmospheric Pressure: 1005 mbar

7.4.2 Test Mode Description

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

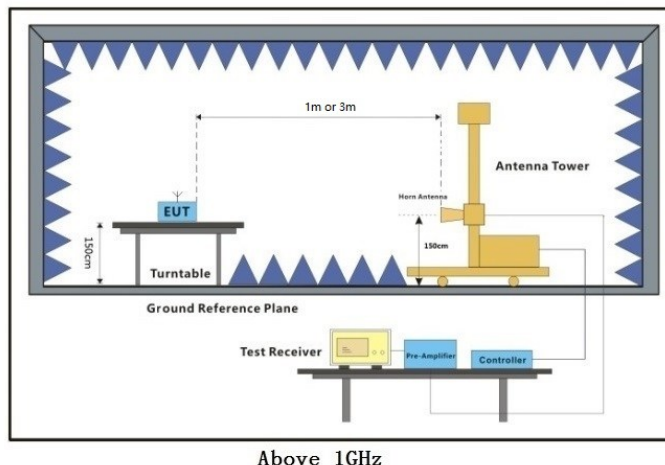


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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

- For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- The antenna height is varied from 1m to 4m 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 1m to 4m 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.
- 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:

- Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
- 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.
- For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
- For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s).

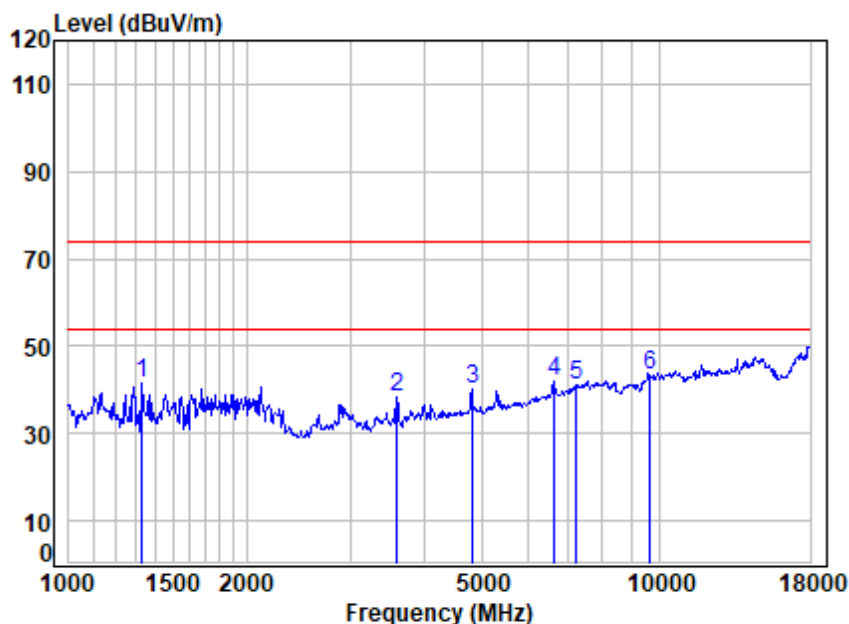


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1327.446	4.09	25.06	53.32	65.56	41.39	74.00	-32.61	peak	0.00
2	3598.203	7.65	29.41	52.90	54.20	38.36	74.00	-35.64	peak	0.00
3	4824.000	8.27	31.86	53.15	53.16	40.14	74.00	-33.86	peak	0.00
4	6621.375	8.69	34.80	53.24	51.74	41.99	74.00	-32.01	peak	0.00
5	7236.000	8.87	36.36	53.45	49.17	40.95	74.00	-33.05	peak	0.00
6 pp	9648.000	11.92	38.60	54.03	46.95	43.44	74.00	-30.56	peak	0.00

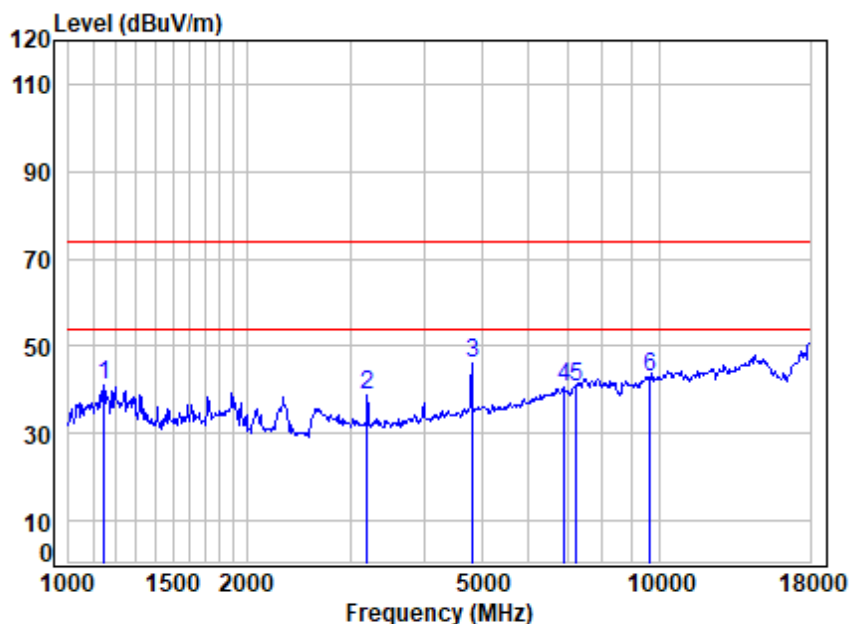


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1148.823	3.43	24.82	53.26	65.94	40.93	74.00	-33.07	peak	0.00
2	3205.345	7.44	29.23	52.90	54.85	38.62	74.00	-35.38	peak	0.00
3	4824.000	8.27	31.86	53.15	58.95	45.93	74.00	-28.07	peak	0.00
4	6874.906	8.59	35.35	53.21	49.74	40.47	74.00	-33.53	peak	0.00
5	7236.000	8.87	36.36	53.45	48.83	40.61	74.00	-33.39	peak	0.00
6	9648.000	11.92	38.60	54.03	46.62	43.11	74.00	-30.89	peak	0.00

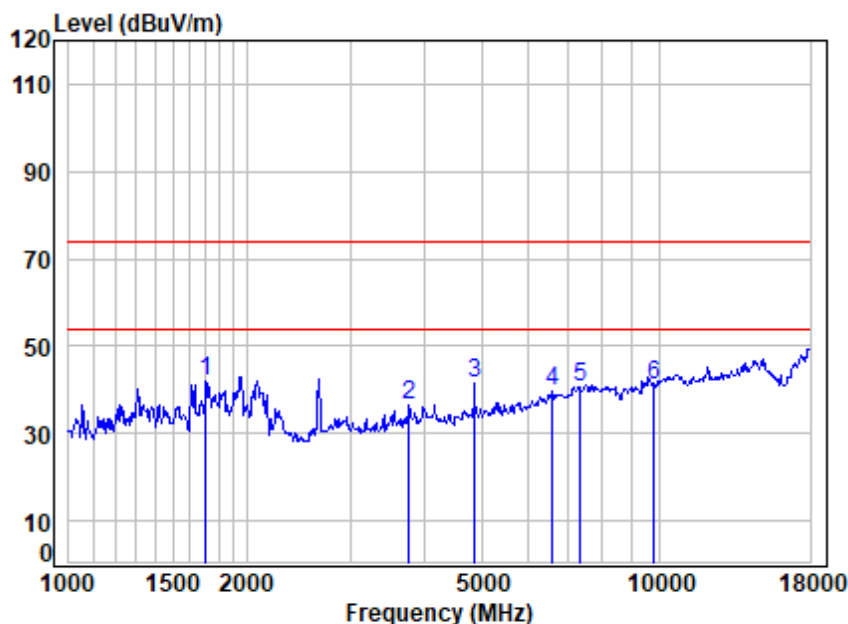


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 1702.042	5.63	25.12	53.43	64.82	42.14	74.00	-31.86	peak	0.00
2	3768.513	7.80	29.95	52.90	51.85	36.70	74.00	-37.30	peak	0.00
3	4874.000	8.29	31.99	53.17	54.45	41.56	74.00	-32.44	peak	0.00
4	6602.265	8.69	35.07	53.24	49.33	39.85	74.00	-34.15	peak	0.00
5	7311.000	8.97	36.12	53.53	49.00	40.56	74.00	-33.44	peak	0.00
6	9748.000	11.90	38.29	54.05	44.78	40.92	74.00	-33.08	peak	0.00

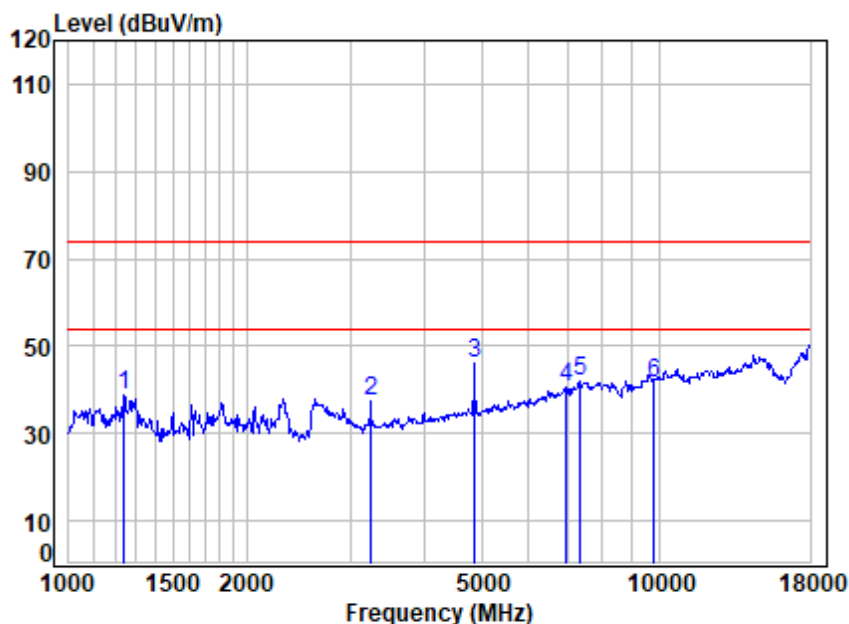


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1238.483	3.77	25.32	53.29	62.87	38.67	74.00	-35.33	peak	0.00
2	3242.619	7.46	29.46	52.90	53.56	37.58	74.00	-36.42	peak	0.00
3	4874.000	8.29	31.99	53.17	59.12	46.23	74.00	-27.77	peak	0.00
4	6954.852	8.57	36.09	53.20	49.15	40.61	74.00	-33.39	peak	0.00
5	7311.000	8.97	36.12	53.53	50.49	42.05	74.00	-31.95	peak	0.00
6	9748.000	11.90	38.29	54.05	45.55	41.69	74.00	-32.31	peak	0.00

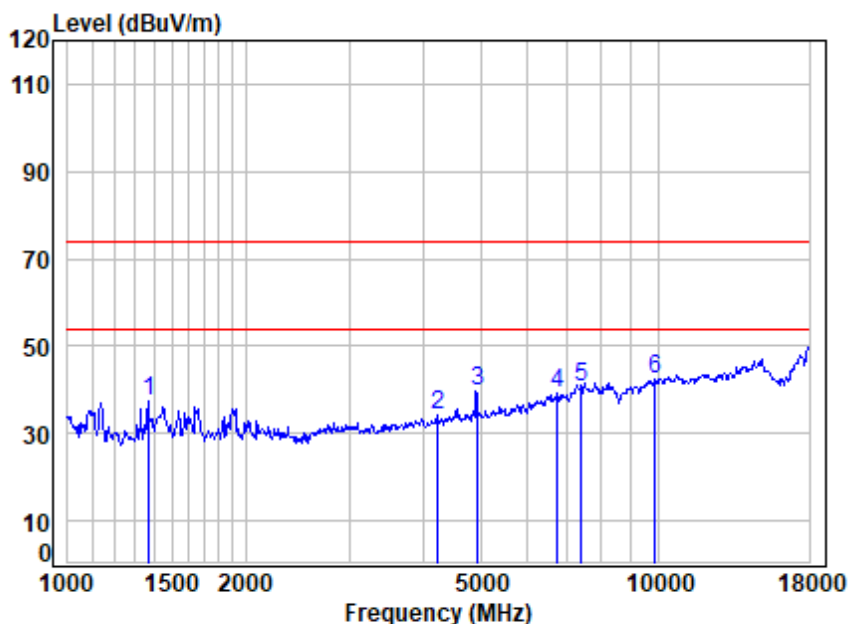


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1366.374	4.22	25.30	53.34	61.22	37.40	74.00	-36.60	peak	0.00
2	4230.396	8.05	31.02	52.98	48.01	34.10	74.00	-39.90	peak	0.00
3	4924.000	8.31	32.20	53.18	52.15	39.48	74.00	-34.52	peak	0.00
4	6756.708	8.64	35.30	53.22	48.65	39.37	74.00	-34.63	peak	0.00
5	7386.000	9.07	36.70	53.60	48.31	40.48	74.00	-33.52	peak	0.00
6 pp	9848.000	11.88	38.59	54.07	45.90	42.30	74.00	-31.70	peak	0.00

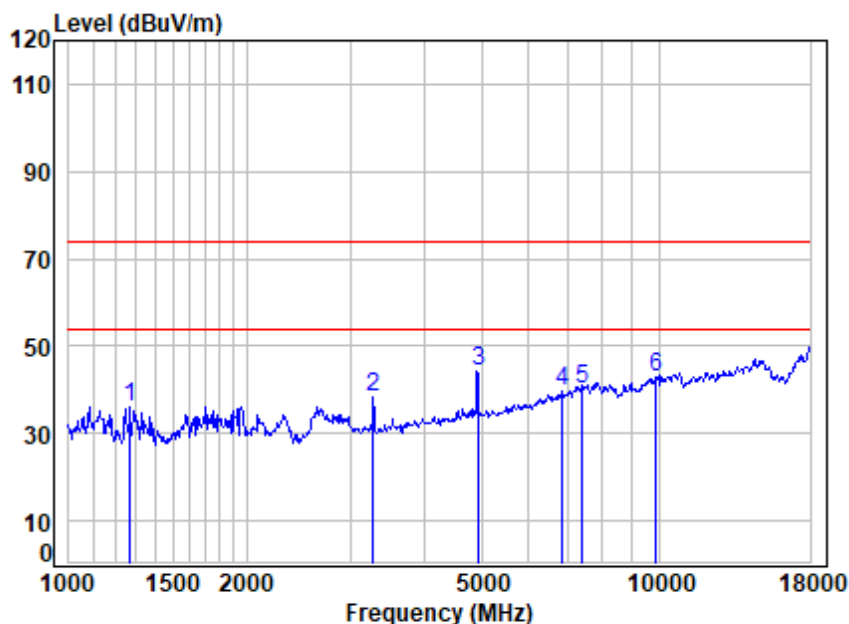


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1267.454	3.88	25.19	53.30	60.07	35.84	74.00	-38.16	peak	0.00
2	3280.326	7.47	29.26	52.90	54.40	38.23	74.00	-35.77	peak	0.00
3	4924.000	8.31	32.20	53.18	56.89	44.22	74.00	-29.78	peak	0.00
4	6835.278	8.61	35.30	53.22	49.15	39.84	74.00	-34.16	peak	0.00
5	7386.000	9.07	36.70	53.60	48.11	40.28	74.00	-33.72	peak	0.00
6	9848.000	11.88	38.59	54.07	46.44	42.84	74.00	-31.16	peak	0.00

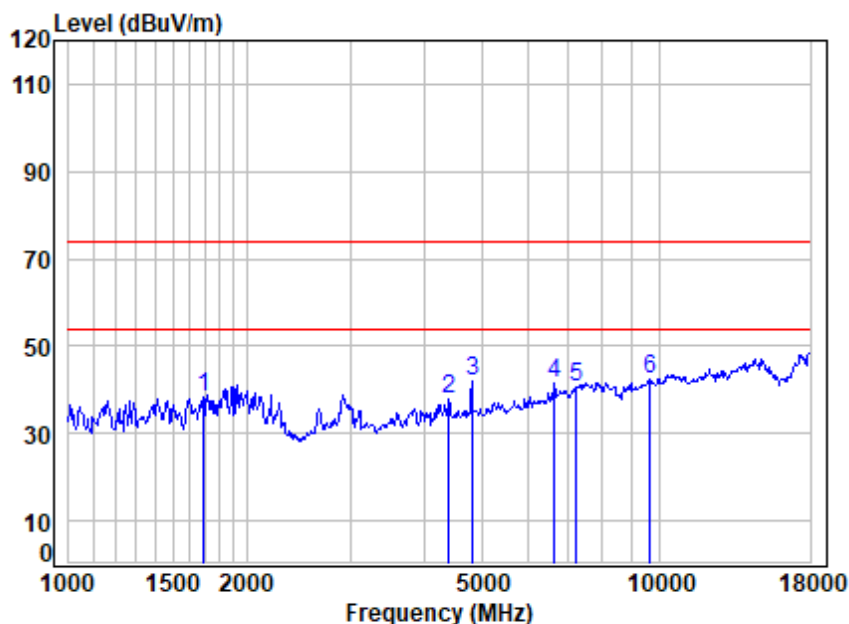


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1687.347	5.56	25.05	53.43	61.34	38.52	74.00	-35.48	peak	0.00
2	4405.090	8.09	31.37	53.03	51.60	38.03	74.00	-35.97	peak	0.00
3	4824.000	8.27	31.86	53.15	55.10	42.08	74.00	-31.92	peak	0.00
4	6640.542	8.68	34.53	53.23	51.33	41.31	74.00	-32.69	peak	0.00
5	7236.000	8.87	36.36	53.45	48.89	40.67	74.00	-33.33	peak	0.00
6 pp	9648.000	11.92	38.60	54.03	45.74	42.23	74.00	-31.77	peak	0.00

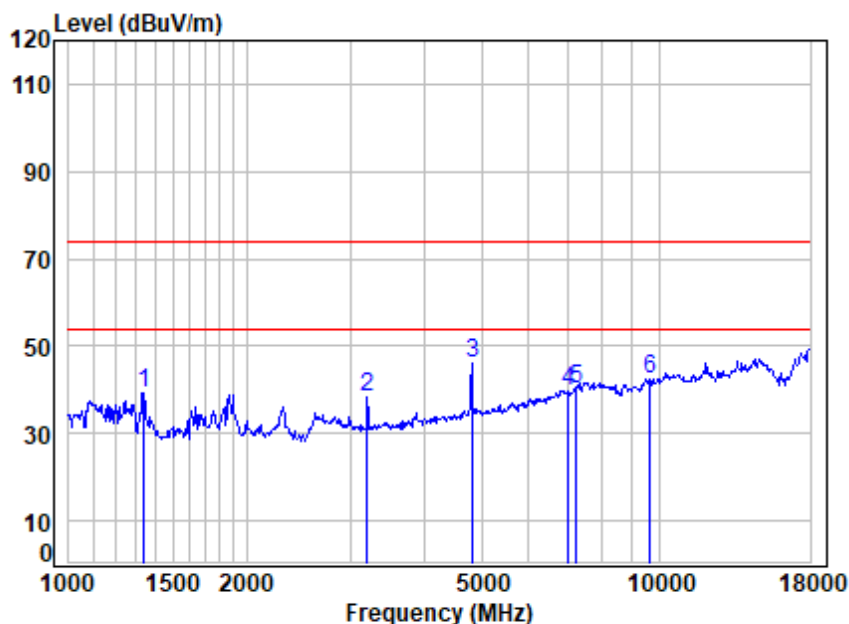


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1342.882	4.14	25.09	53.33	63.25	39.15	74.00	-34.85	peak	0.00
2	3205.345	7.44	29.23	52.90	54.60	38.37	74.00	-35.63	peak	0.00
3	4824.000	8.27	31.86	53.15	59.09	46.07	74.00	-27.93	peak	0.00
4	6995.172	8.55	36.01	53.20	48.48	39.84	74.00	-34.16	peak	0.00
5	7236.000	8.87	36.36	53.45	48.38	40.16	74.00	-33.84	peak	0.00
6	9648.000	11.92	38.60	54.03	46.17	42.66	74.00	-31.34	peak	0.00

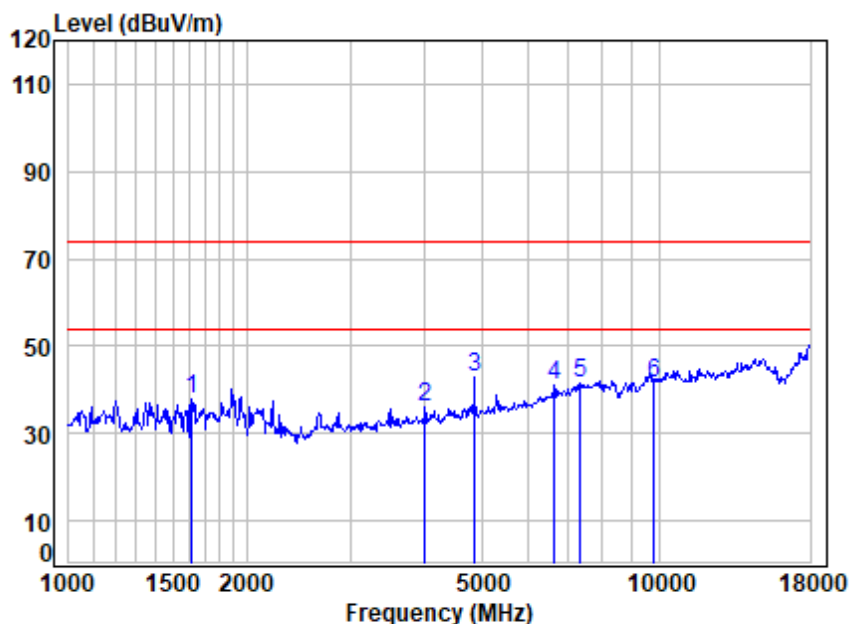


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1615.754	5.23	25.04	53.41	61.07	37.93	74.00	-36.07	peak	0.00
2	4015.929	7.98	30.50	52.91	50.43	36.00	74.00	-38.00	peak	0.00
3	4874.000	8.29	31.99	53.17	55.68	42.79	74.00	-31.21	peak	0.00
4	6640.542	8.68	34.53	53.23	51.29	41.27	74.00	-32.73	peak	0.00
5	7311.000	8.97	36.12	53.53	49.93	41.49	74.00	-32.51	peak	0.00
6	9748.000	11.90	38.29	54.05	45.24	41.38	74.00	-32.62	peak	0.00

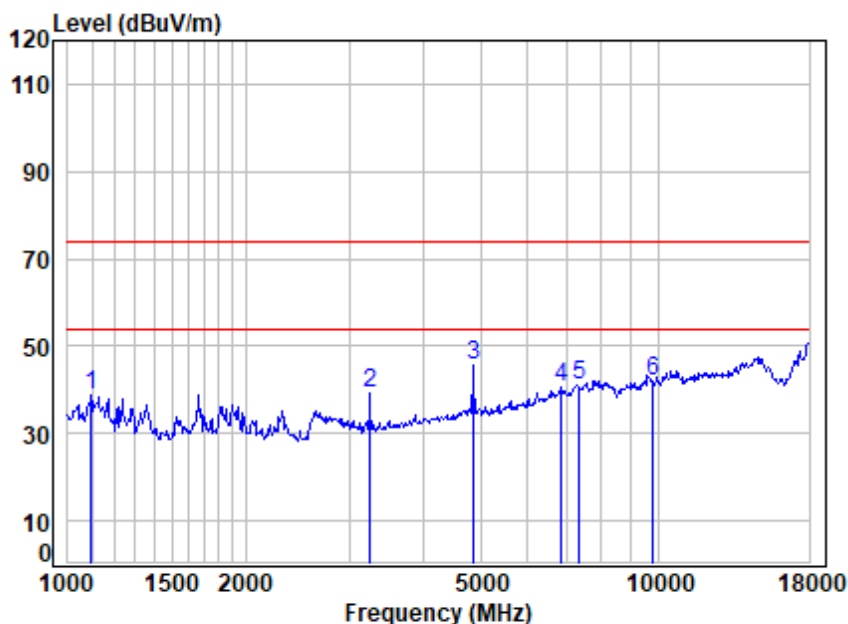


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1096.904	3.21	25.48	53.24	63.49	38.94	74.00	-35.06	peak	0.00
2	3242.619	7.46	29.46	52.90	55.17	39.19	74.00	-34.81	peak	0.00
3	4874.000	8.29	31.99	53.17	58.72	45.83	74.00	-28.17	peak	0.00
4	6835.278	8.61	35.30	53.22	49.70	40.39	74.00	-33.61	peak	0.00
5	7311.000	8.97	36.12	53.53	49.62	41.18	74.00	-32.82	peak	0.00
6	9748.000	11.90	38.29	54.05	45.93	42.07	74.00	-31.93	peak	0.00

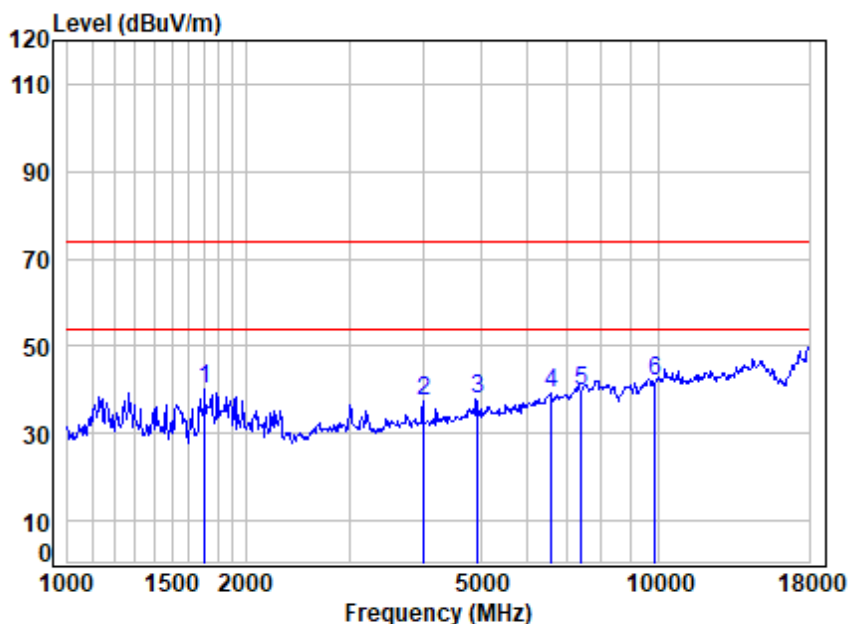


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1702.042	5.63	25.12	53.43	62.87	40.19	74.00	-33.81	peak	0.00
2	3992.781	7.97	30.60	52.90	51.93	37.60	74.00	-36.40	peak	0.00
3	4924.000	8.31	32.20	53.18	50.74	38.07	74.00	-35.93	peak	0.00
4	6564.209	8.71	35.10	53.24	48.44	39.01	74.00	-34.99	peak	0.00
5	7386.000	9.07	36.70	53.60	47.69	39.86	74.00	-34.14	peak	0.00
6 pp	9848.000	11.88	38.59	54.07	45.39	41.79	74.00	-32.21	peak	0.00

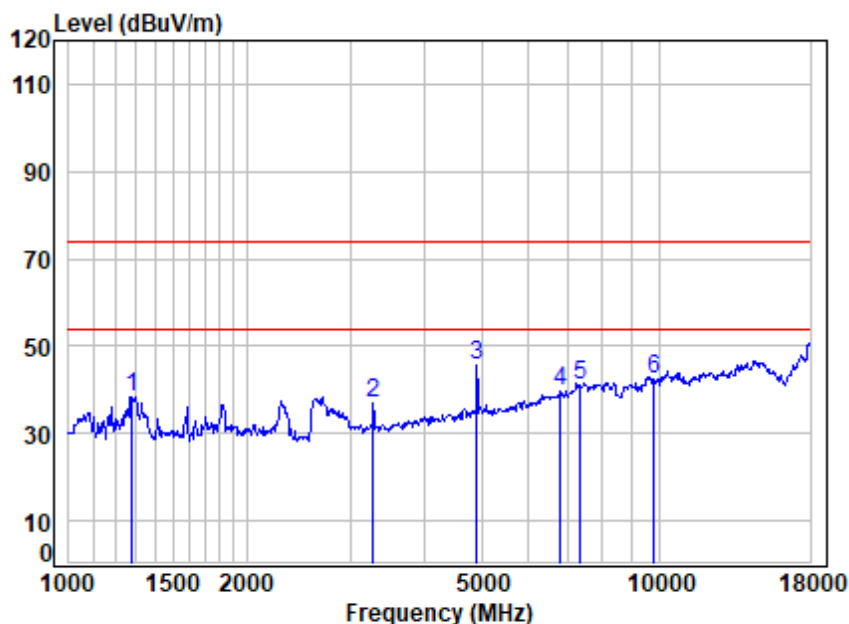


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1282.193	3.93	25.11	53.31	62.82	38.55	74.00	-35.45	peak	0.00
2	3280.326	7.47	29.26	52.90	53.03	36.86	74.00	-37.14	peak	0.00
3	4904.000	8.30	32.28	53.17	58.23	45.64	74.00	-28.36	peak	0.00
4	6795.879	8.62	35.30	53.22	48.92	39.62	74.00	-34.38	peak	0.00
5	7356.000	9.03	36.28	53.57	49.26	41.00	74.00	-33.00	peak	0.00
6	9808.000	11.89	38.43	54.06	46.04	42.30	74.00	-31.70	peak	0.00

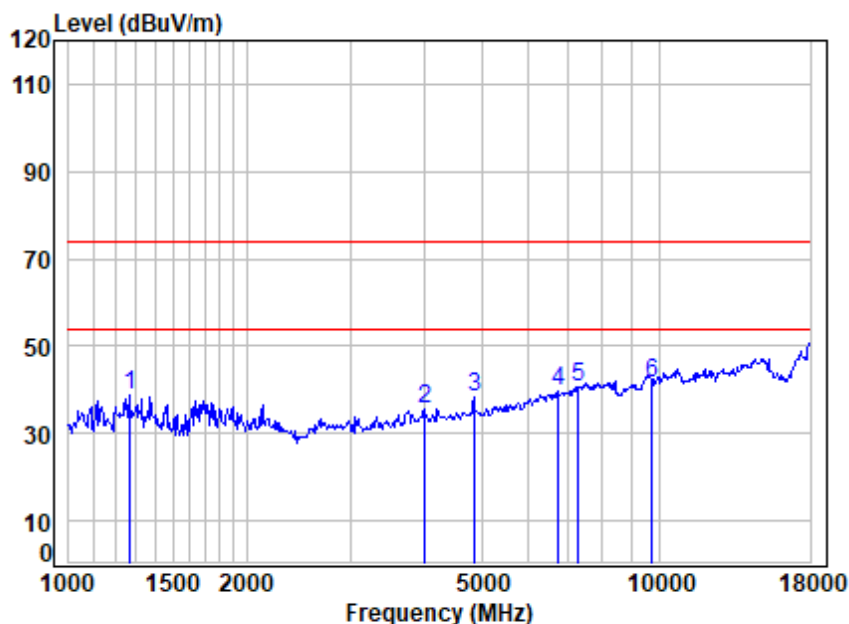


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1267.454	3.88	25.19	53.30	63.03	38.80	74.00	-35.20	peak	0.00
2	3992.781	7.97	30.60	52.90	49.82	35.49	74.00	-38.51	peak	0.00
3	4844.000	8.27	31.74	53.16	51.27	38.12	74.00	-35.88	peak	0.00
4	6717.762	8.65	35.11	53.23	49.11	39.64	74.00	-34.36	peak	0.00
5	7266.000	8.91	36.37	53.48	48.72	40.52	74.00	-33.48	peak	0.00
6 pp	9688.000	11.91	38.22	54.04	45.53	41.62	74.00	-32.38	peak	0.00

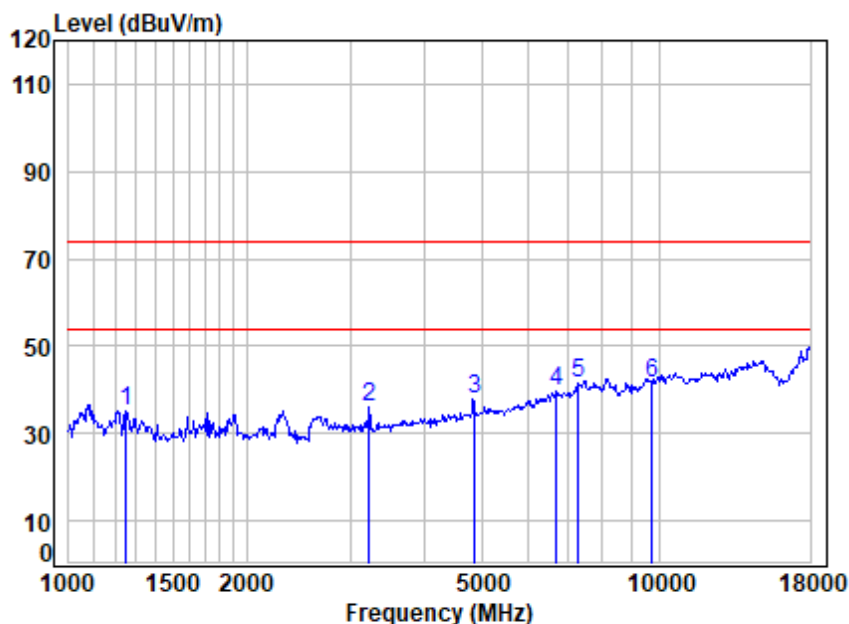


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1252.885	3.82	25.28	53.30	59.52	35.32	74.00	-38.68	peak	0.00
2	3223.928	7.45	29.34	52.90	52.01	35.90	74.00	-38.10	peak	0.00
3	4844.000	8.27	31.74	53.16	50.95	37.80	74.00	-36.20	peak	0.00
4	6679.040	8.66	34.75	53.23	49.50	39.68	74.00	-34.32	peak	0.00
5	7266.000	8.91	36.37	53.48	49.63	41.43	74.00	-32.57	peak	0.00
6 pp	9688.000	11.91	38.22	54.04	45.55	41.64	74.00	-32.36	peak	0.00

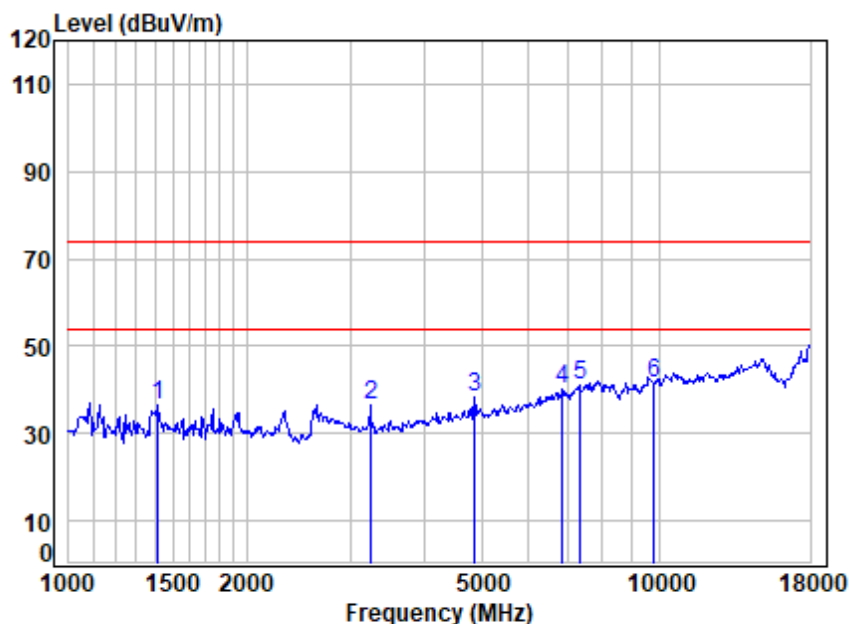


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1414.597	4.38	25.58	53.35	60.07	36.68	74.00	-37.32	peak	0.00
2	3242.619	7.46	29.46	52.90	52.69	36.71	74.00	-37.29	peak	0.00
3	4874.000	8.29	31.99	53.17	51.32	38.43	74.00	-35.57	peak	0.00
4	6835.278	8.61	35.30	53.22	49.64	40.33	74.00	-33.67	peak	0.00
5	7311.000	8.97	36.12	53.53	49.50	41.06	74.00	-32.94	peak	0.00
6 pp	9748.000	11.90	38.29	54.05	45.47	41.61	74.00	-32.39	peak	0.00

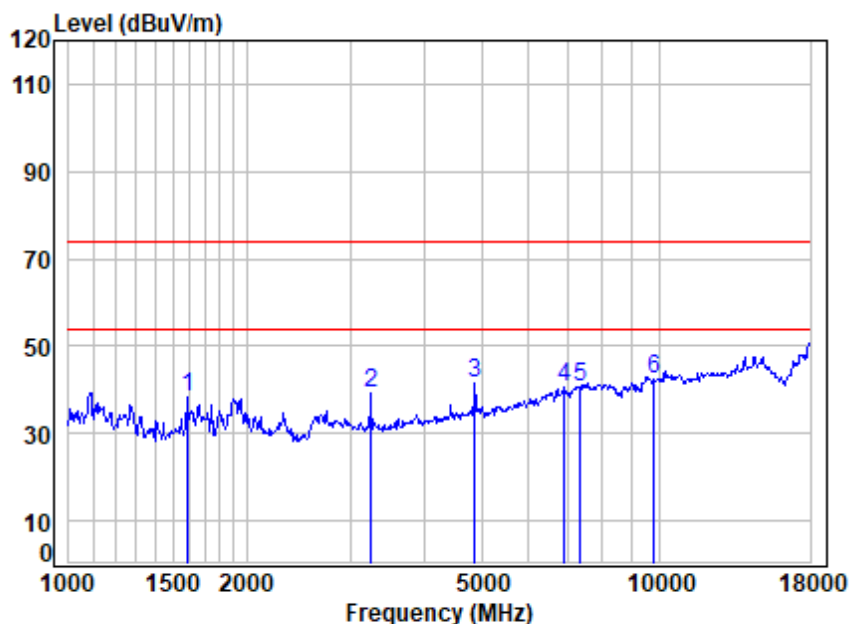


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1587.975	5.09	25.10	53.40	61.68	38.47	74.00	-35.53	peak	0.00
2	3242.619	7.46	29.46	52.90	55.20	39.22	74.00	-34.78	peak	0.00
3	4874.000	8.29	31.99	53.17	54.50	41.61	74.00	-32.39	peak	0.00
4	6914.763	8.58	35.61	53.21	49.53	40.51	74.00	-33.49	peak	0.00
5	7311.000	8.97	36.12	53.53	49.25	40.81	74.00	-33.19	peak	0.00
6 pp	9748.000	11.90	38.29	54.05	46.34	42.48	74.00	-31.52	peak	0.00

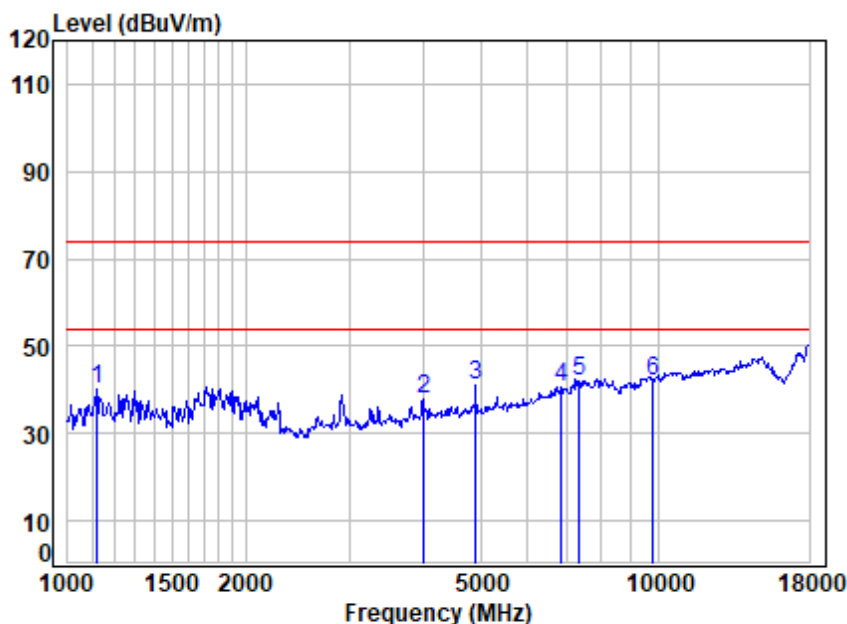


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1116.093	3.29	25.27	53.25	64.80	40.11	74.00	-33.89	peak	0.00
2	3992.781	7.97	30.60	52.90	52.27	37.94	74.00	-36.06	peak	0.00
3	4904.000	8.30	32.28	53.17	53.76	41.17	74.00	-32.83	peak	0.00
4	6835.278	8.61	35.30	53.22	49.95	40.64	74.00	-33.36	peak	0.00
5	pp 7356.000	9.03	36.28	53.57	50.24	41.98	74.00	-32.02	peak	0.00
6	9808.000	11.89	38.43	54.06	45.70	41.96	74.00	-32.04	peak	0.00

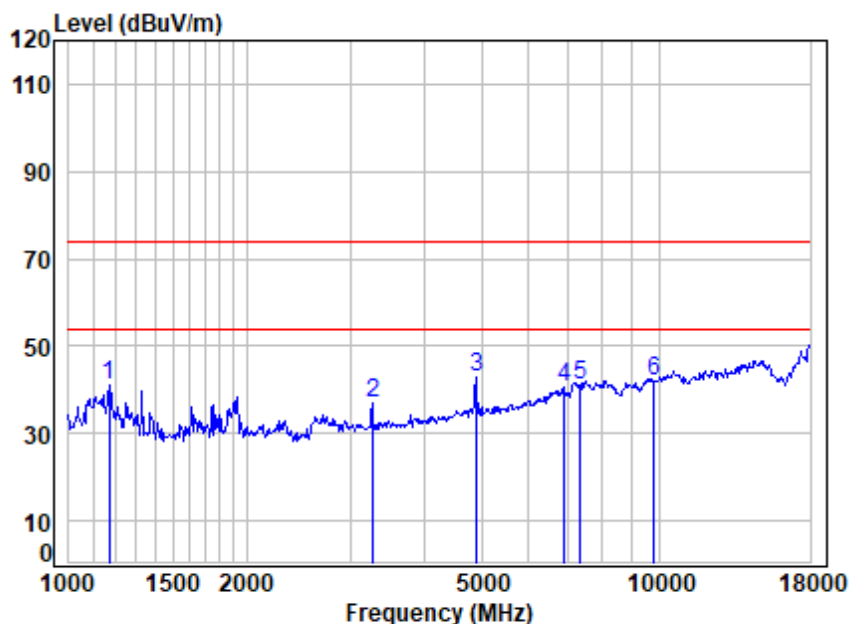


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1168.920	3.51	25.03	53.27	65.66	40.93	74.00	-33.07	peak	0.00
2	3261.418	7.46	29.41	52.90	53.18	37.15	74.00	-36.85	peak	0.00
3	4904.000	8.30	32.28	53.17	55.25	42.66	74.00	-31.34	peak	0.00
4	6874.906	8.59	35.35	53.21	49.87	40.60	74.00	-33.40	peak	0.00
5	7356.000	9.03	36.28	53.57	49.30	41.04	74.00	-32.96	peak	0.00
6	9808.000	11.89	38.43	54.06	45.66	41.92	74.00	-32.08	peak	0.00



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7.5 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 11.9.2
 Test Engineer: Rex Liu
 Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.7 °C Humidity: 54.9 % RH Atmospheric Pressure: 1005 mbar

7.5.2 Test Mode Description

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

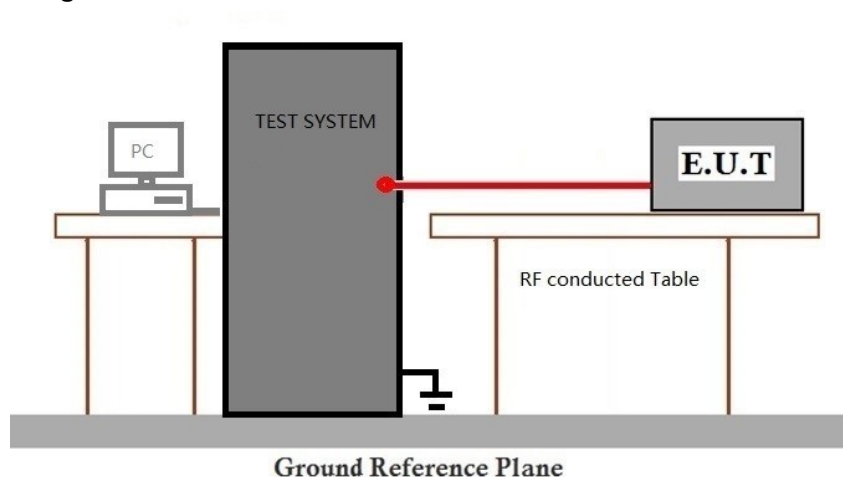


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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.6 Minimum 6dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10-2020+COR.1-2023 Section 11.8.1
Test Engineer:	Rex Liu
Limit:	≥500 kHz

7.6.1 E.U.T. Operation

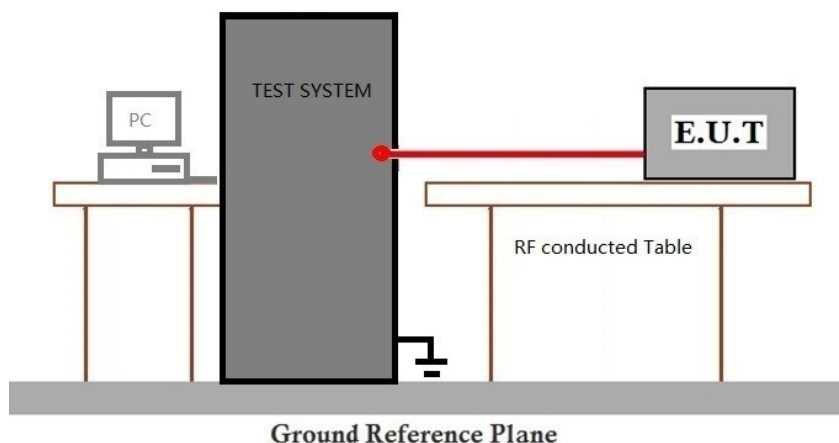
Operating Environment:

Temperature: 20.7 °C Humidity: 54.9 % RH Atmospheric Pressure: 1005 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.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 11.10.3
 Test Engineer: Rex Liu
 Limit: $\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

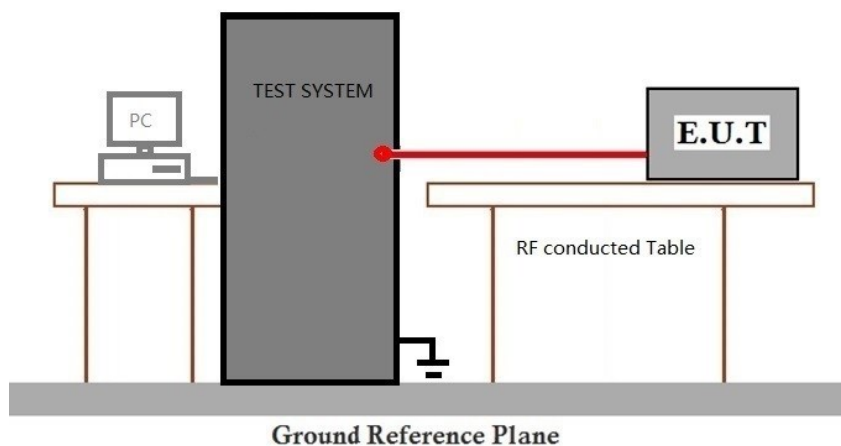
7.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.7 °C Humidity: 54.9 % RH Atmospheric Pressure: 1005 mbar

7.7.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
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.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 6.10.4
 Test Engineer: Rex Liu
 Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.7 °C Humidity: 54.9 % RH Atmospheric Pressure: 1005 mbar

7.8.2 Test Mode Description

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

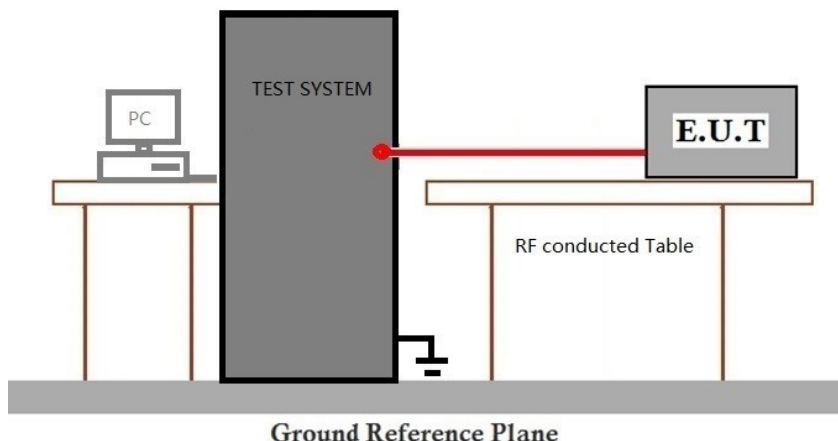


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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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7.9 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 11.11
 Test Engineer: Rex Liu
 Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.7 °C Humidity: 54.9 % RH Atmospheric Pressure: 1005 mbar

7.9.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
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.

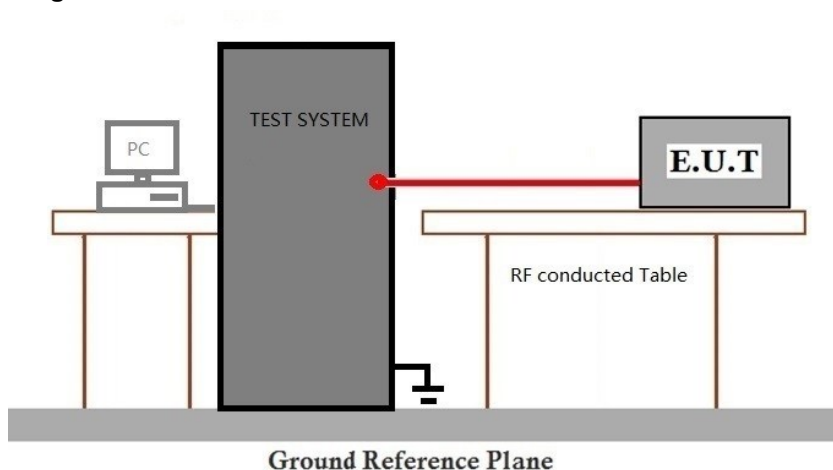


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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR260600021001



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9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2606000210MD



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	32.950	32.980	99.91	0.00	0.01
		2437	32.953	32.983	99.91	0.00	0.01
		2462	32.954	32.984	99.91	0.00	0.01
802.11g	SISO	2412	5.486	5.510	99.56	0.02	0.00
		2437	5.486	5.510	99.56	0.02	0.00
		2462	5.486	5.510	99.56	0.02	0.00
802.11n (HT20)	SISO	2412	5.081	5.107	99.49	0.02	0.04
		2437	5.080	5.105	99.51	0.02	0.00
		2462	5.079	5.105	99.49	0.02	0.04
802.11n (HT40)	SISO	2422	5.079	5.104	99.51	0.02	0.00
		2437	5.079	5.105	99.49	0.02	0.00
		2452	5.080	5.105	99.51	0.02	0.00



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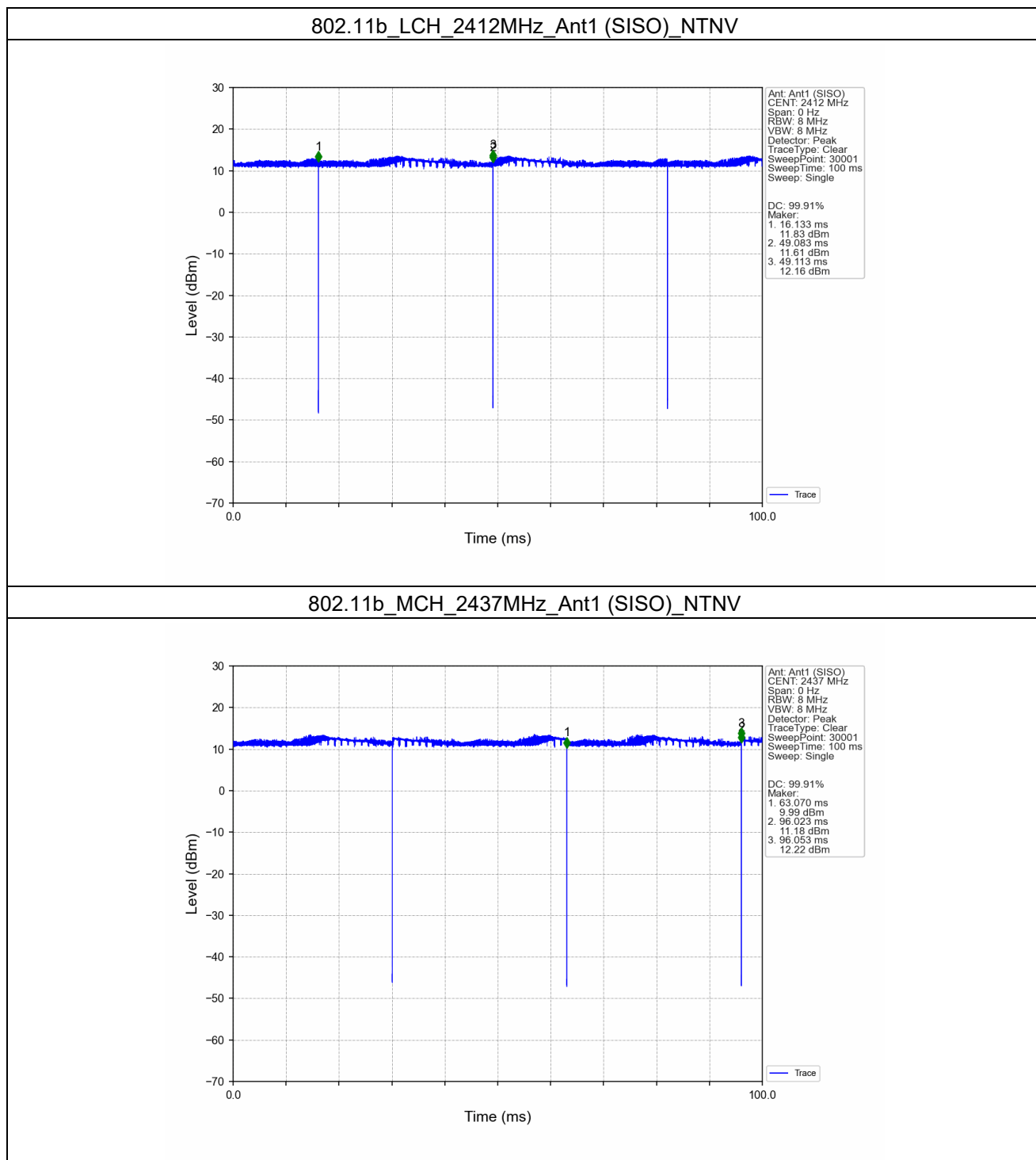
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1.2 Test Graph

1.2.1 Ant1

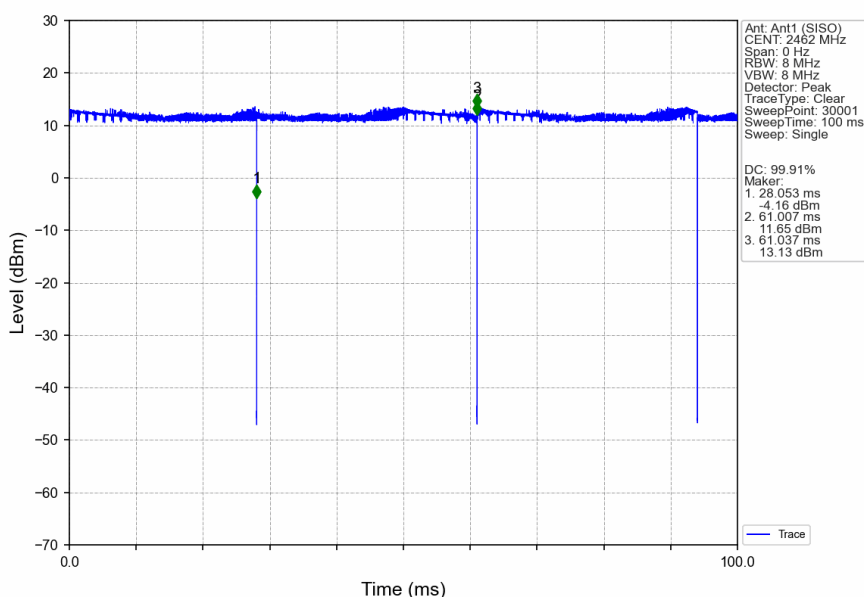


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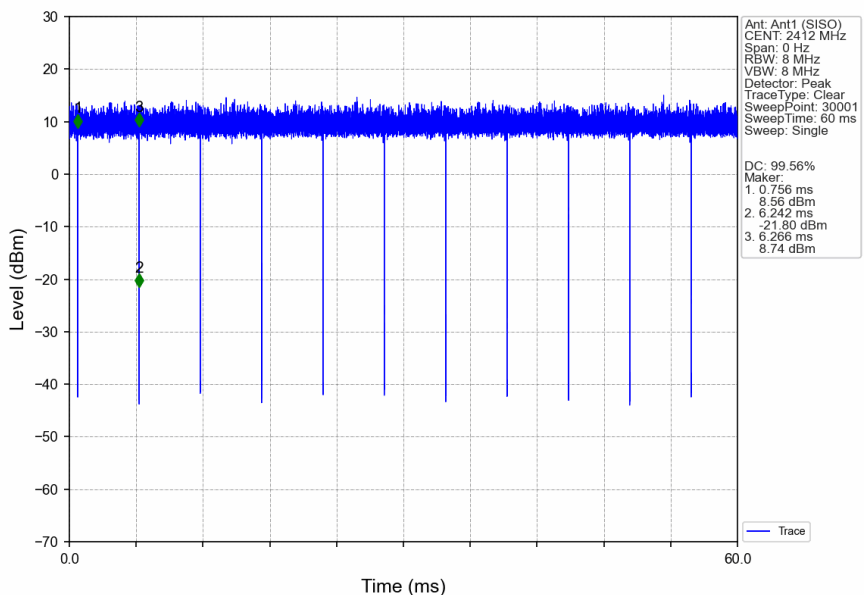
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



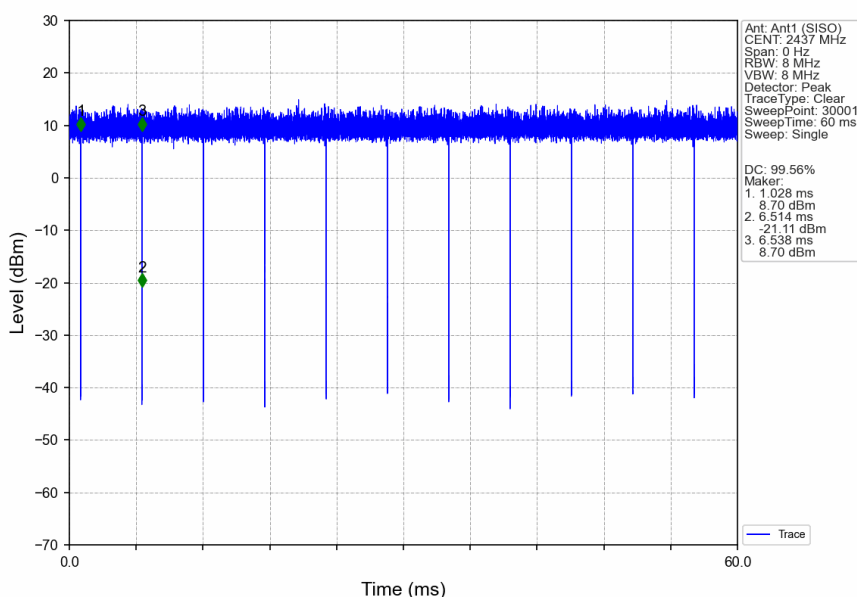
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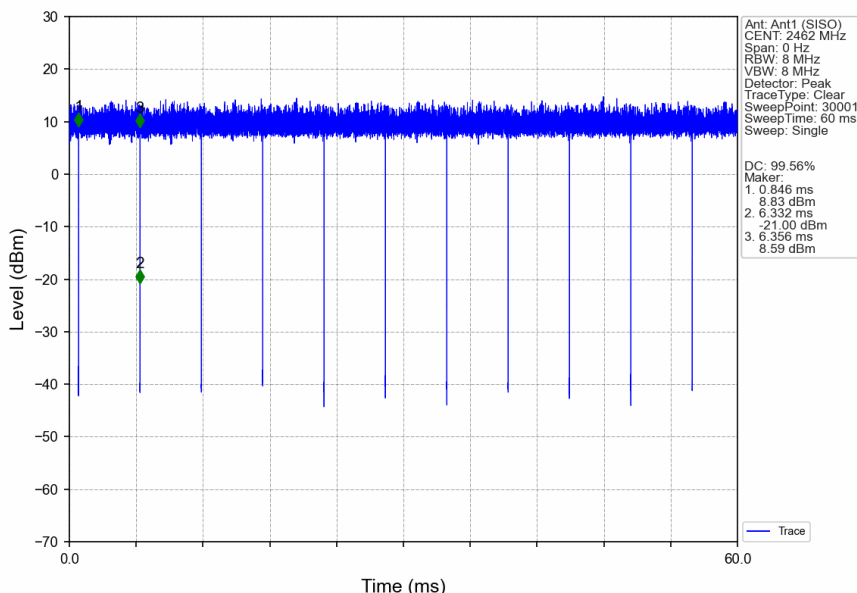
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



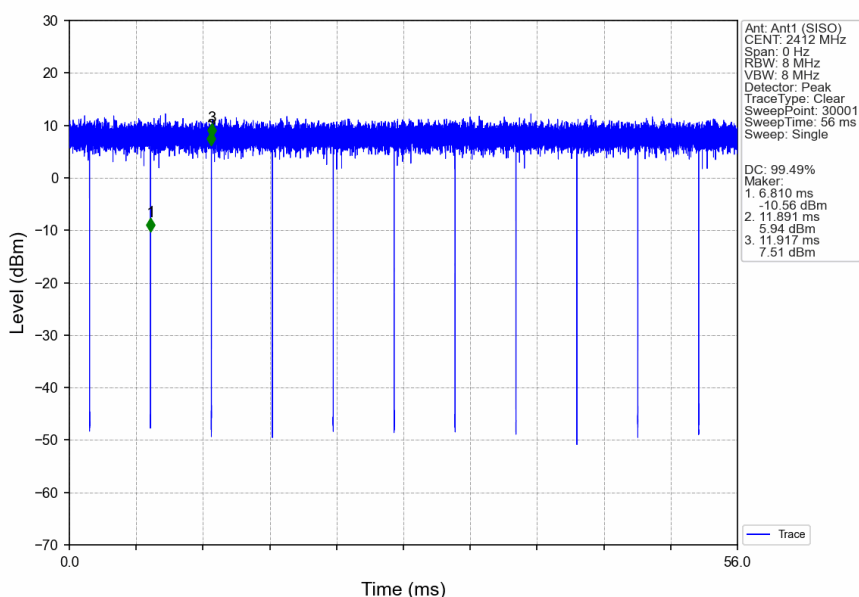
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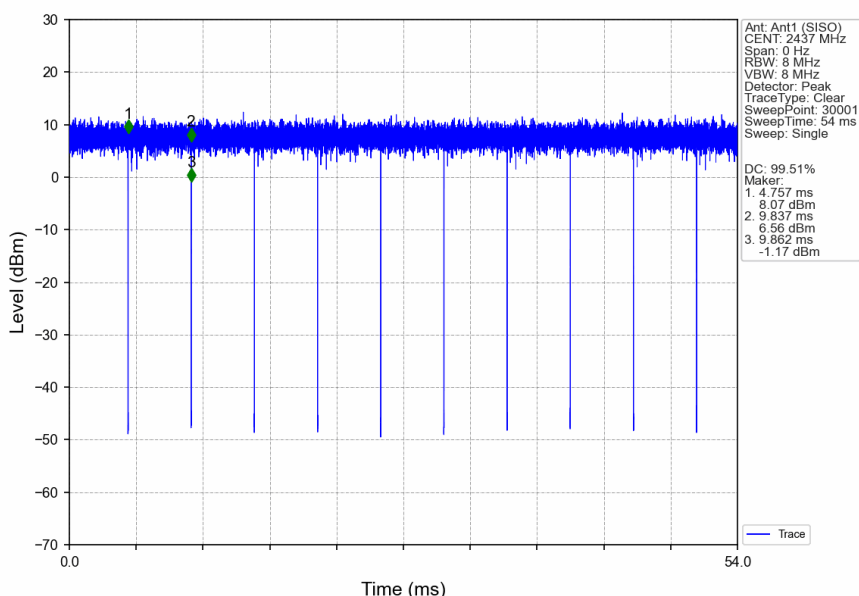
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



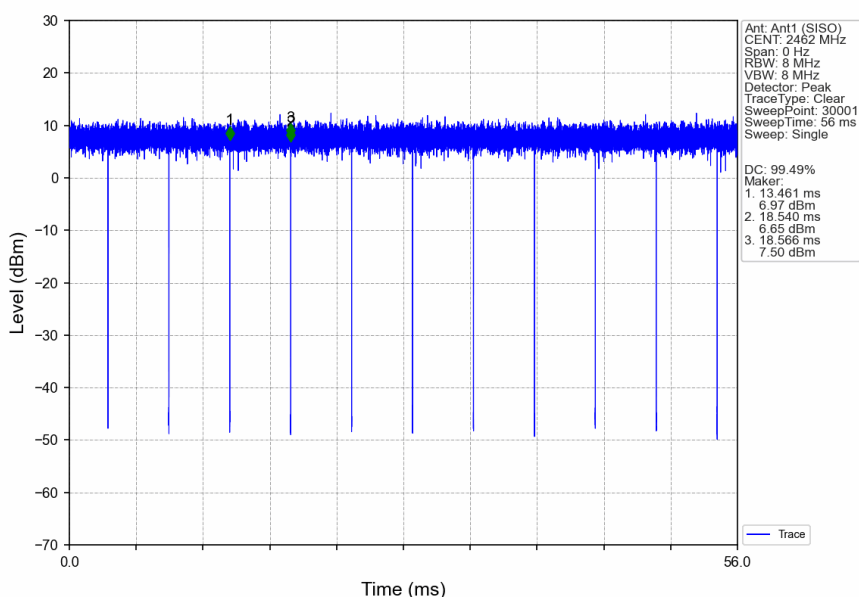
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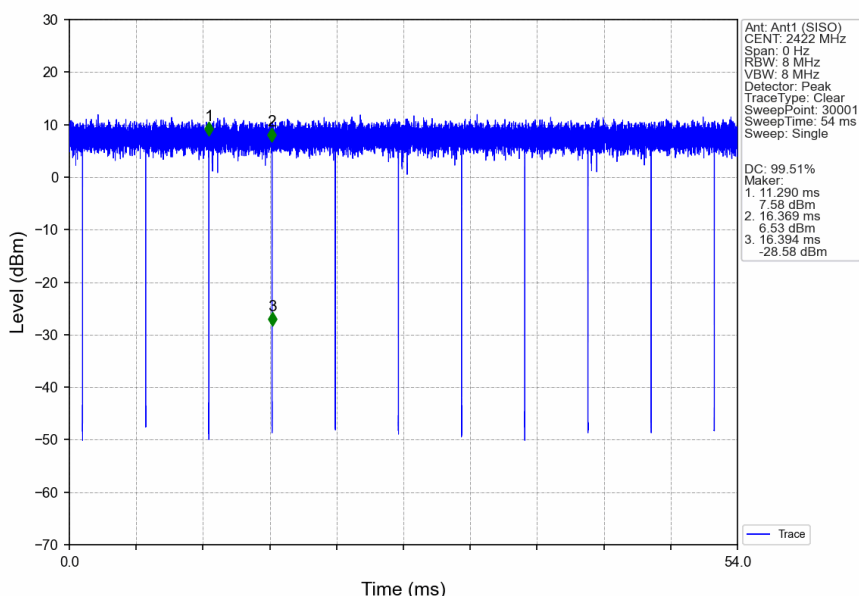
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



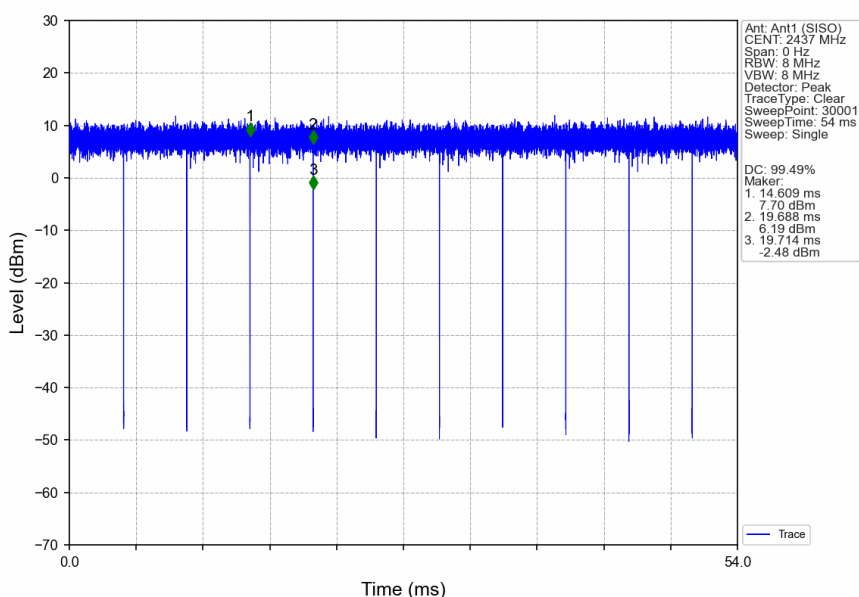
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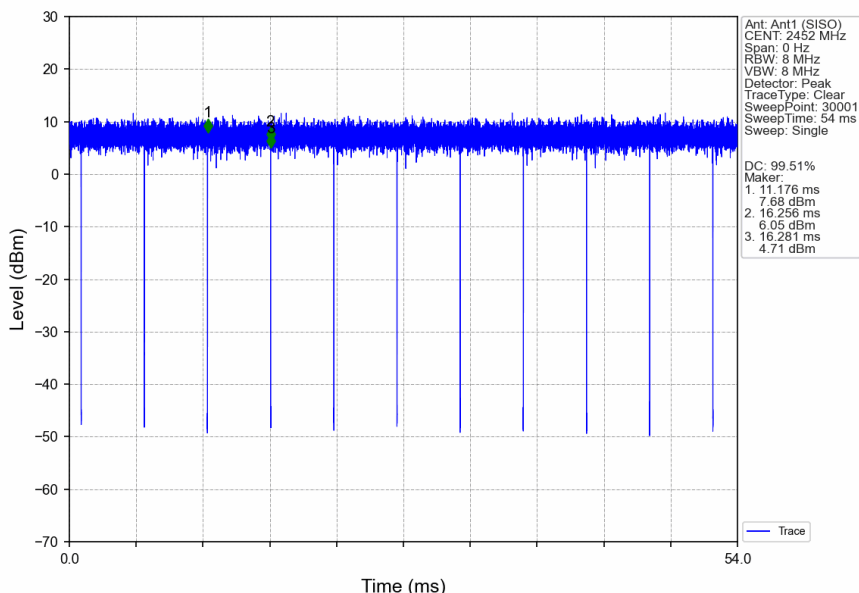
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	12.940	/	Pass
		2437	1	12.900	/	Pass
		2462	1	12.923	/	Pass
802.11g	SISO	2412	1	16.918	/	Pass
		2437	1	16.874	/	Pass
		2462	1	16.886	/	Pass
802.11n (HT20)	SISO	2412	1	17.559	/	Pass
		2437	1	17.573	/	Pass
		2462	1	17.574	/	Pass
802.11n (HT40)	SISO	2422	1	37.027	/	Pass
		2437	1	36.954	/	Pass
		2452	1	36.882	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.904	≥ 0.5	Pass
		2437	1	8.994	≥ 0.5	Pass
		2462	1	8.884	≥ 0.5	Pass
802.11g	SISO	2412	1	16.486	≥ 0.5	Pass
		2437	1	16.429	≥ 0.5	Pass
		2462	1	16.365	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.185	≥ 0.5	Pass
		2437	1	17.238	≥ 0.5	Pass
		2462	1	17.195	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.154	≥ 0.5	Pass
		2437	1	35.978	≥ 0.5	Pass
		2452	1	36.078	≥ 0.5	Pass



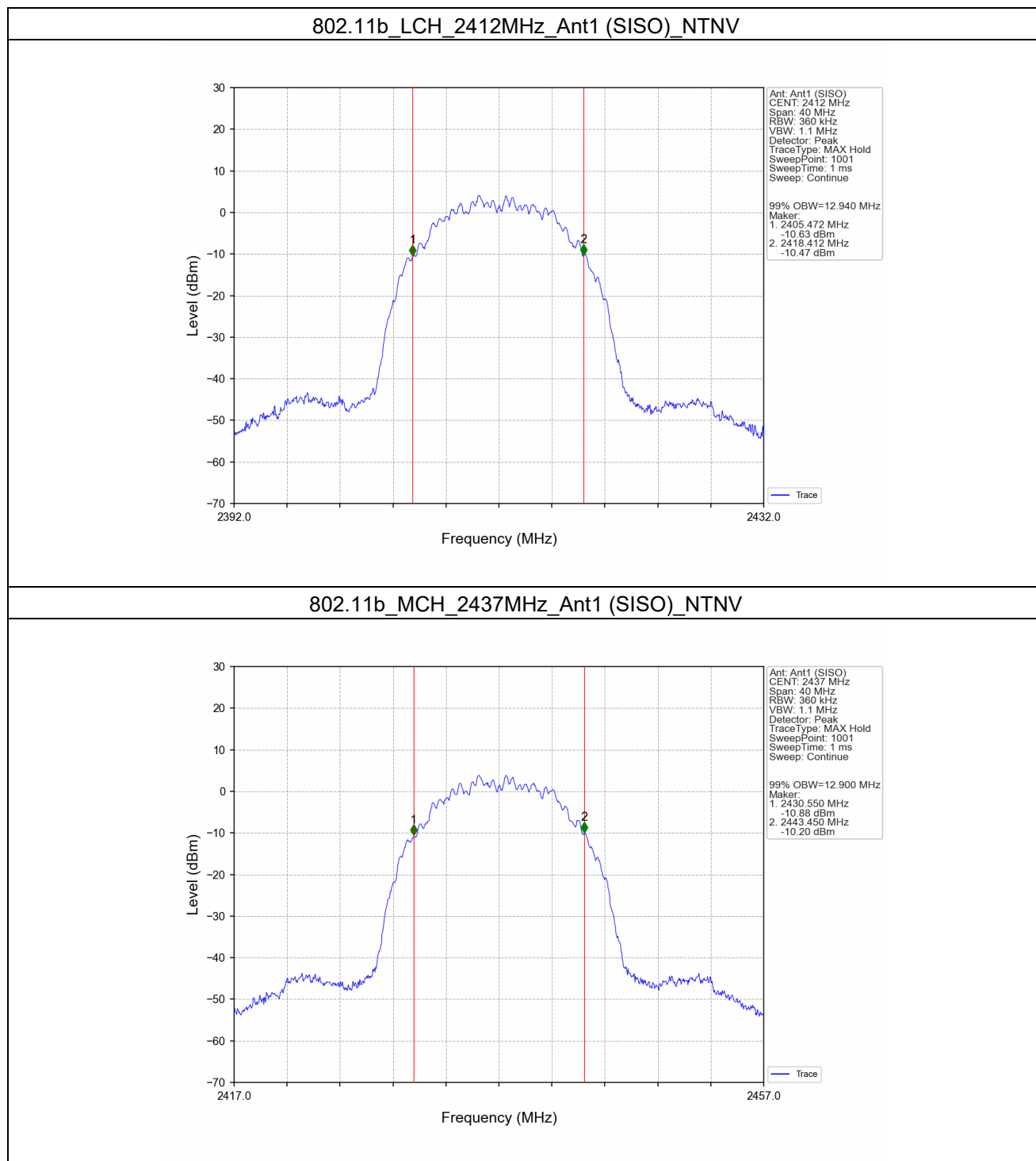
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2.2 Test Graph

2.2.1 OBW



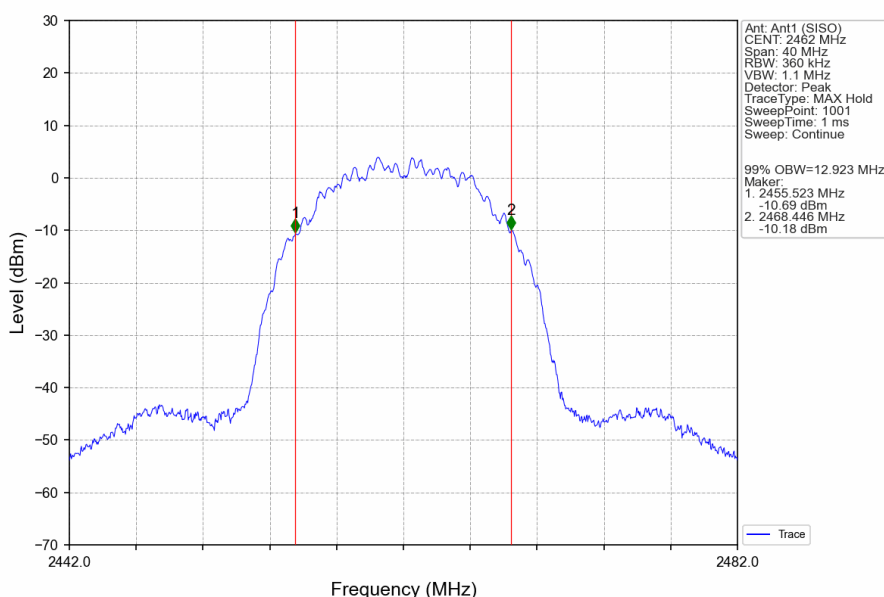
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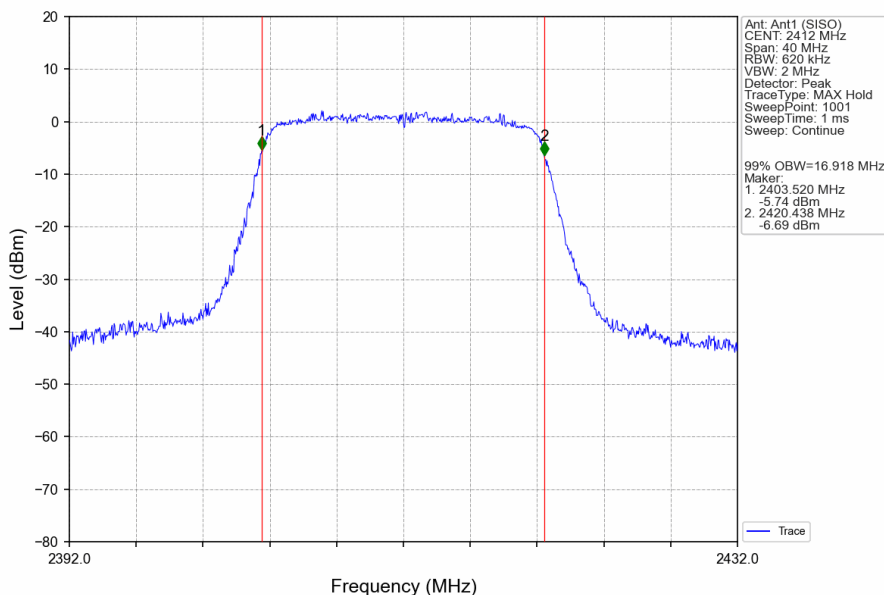
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

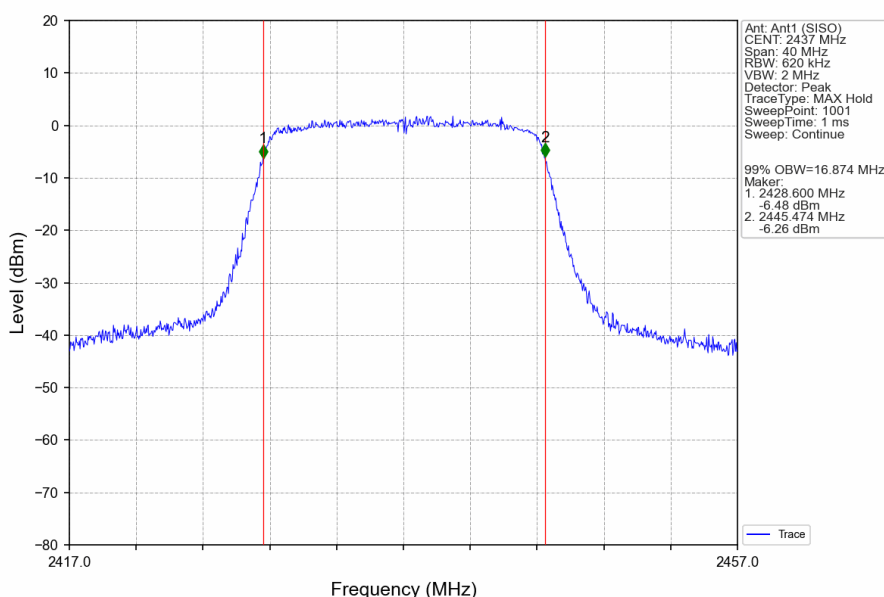


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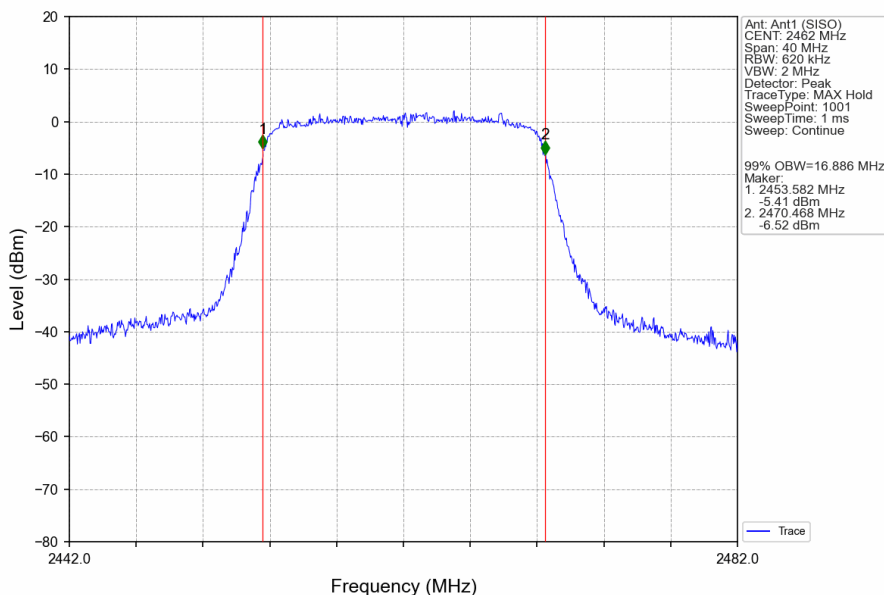
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



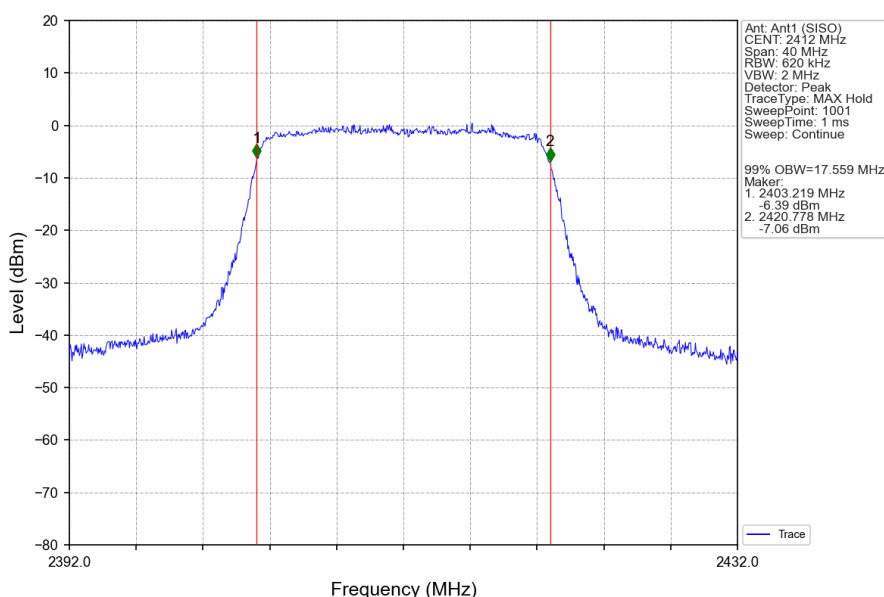
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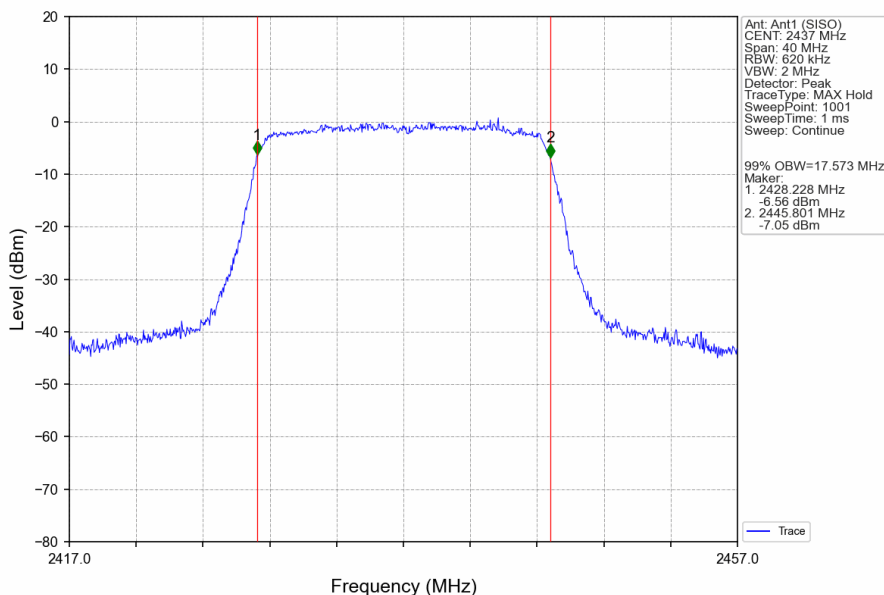
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

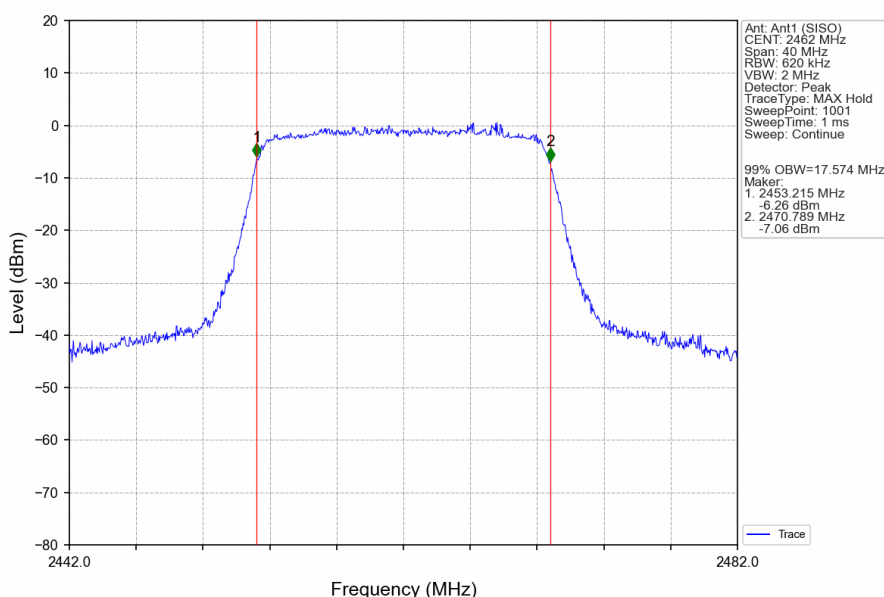


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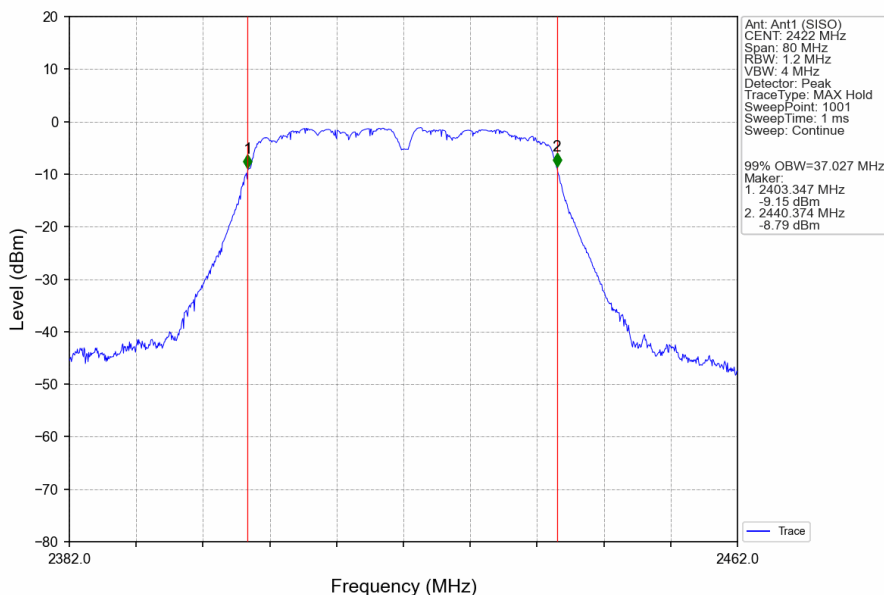
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

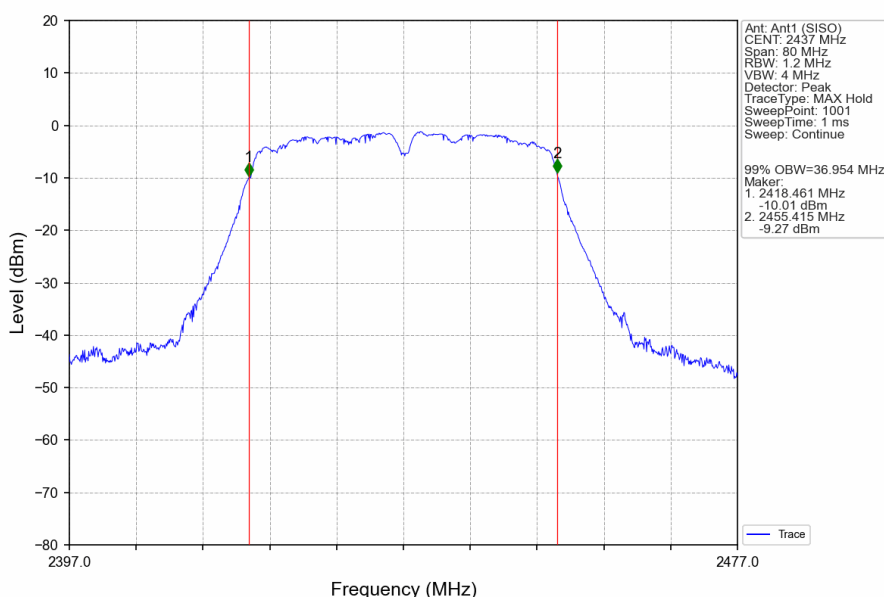


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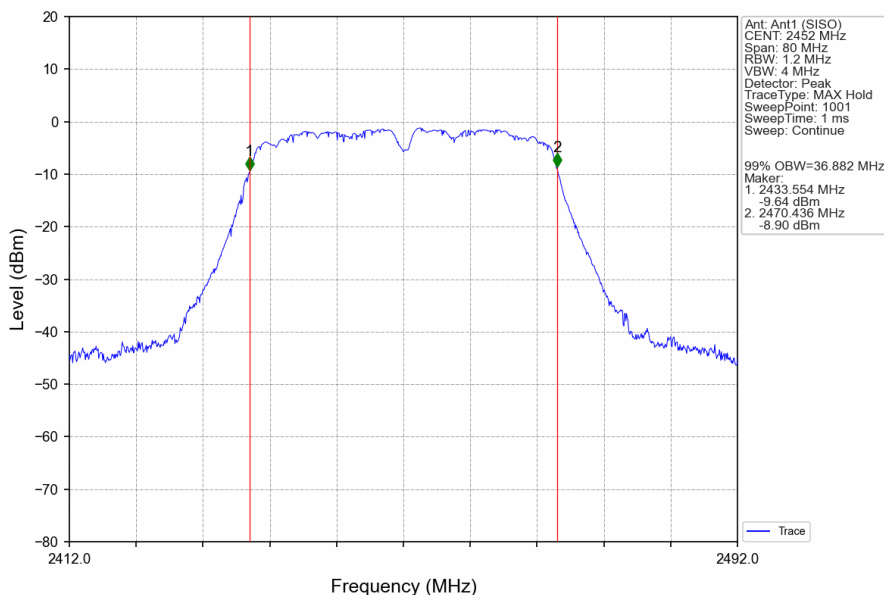
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

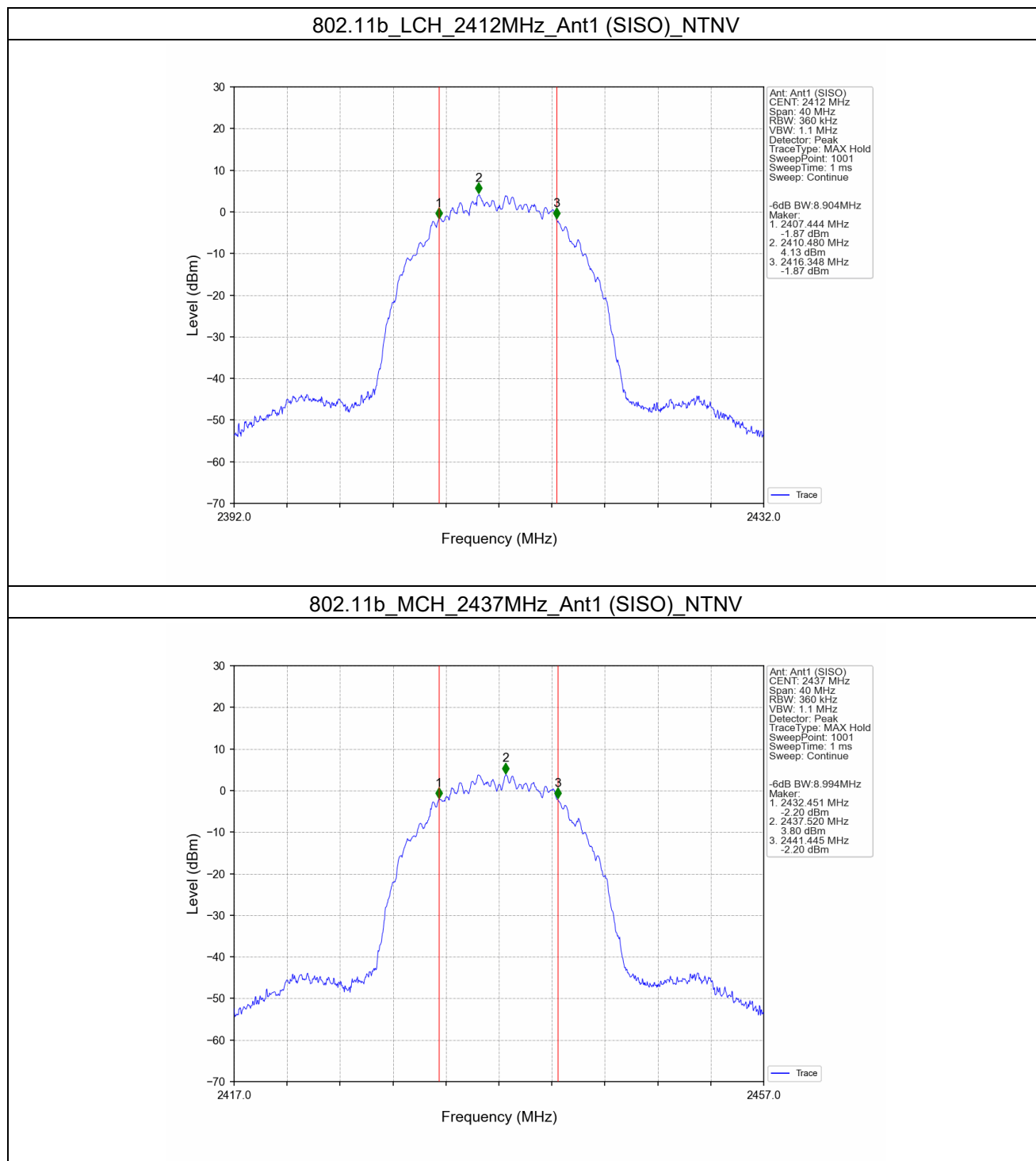


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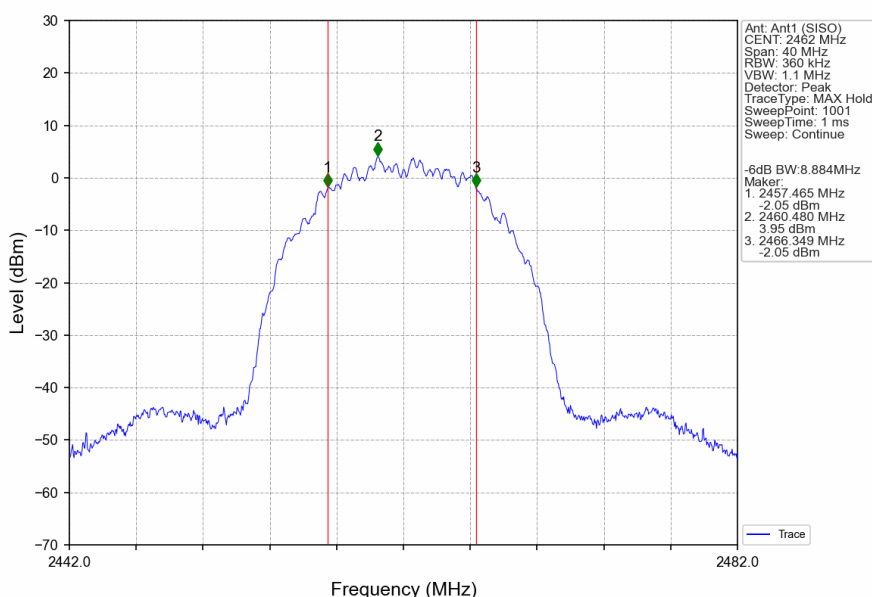
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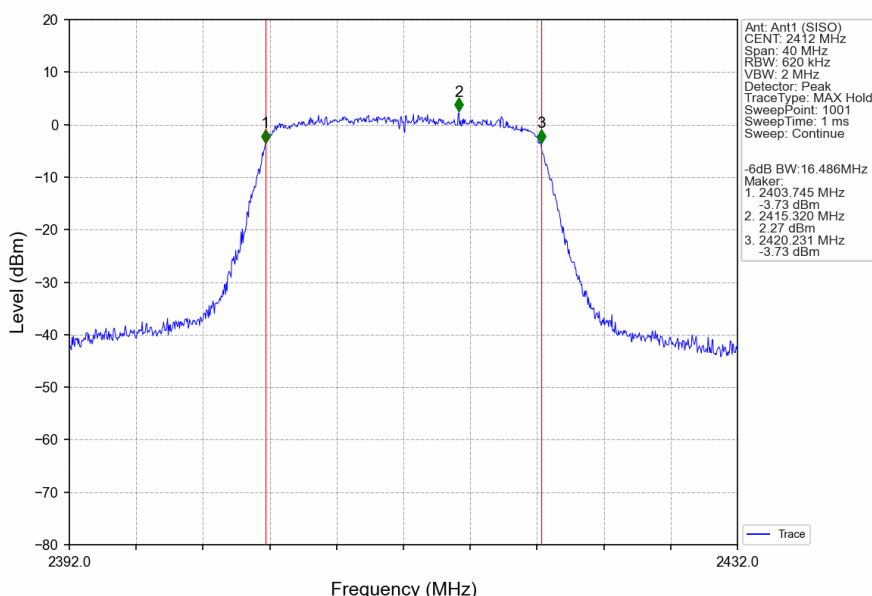
2.2.2 6dB BW



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



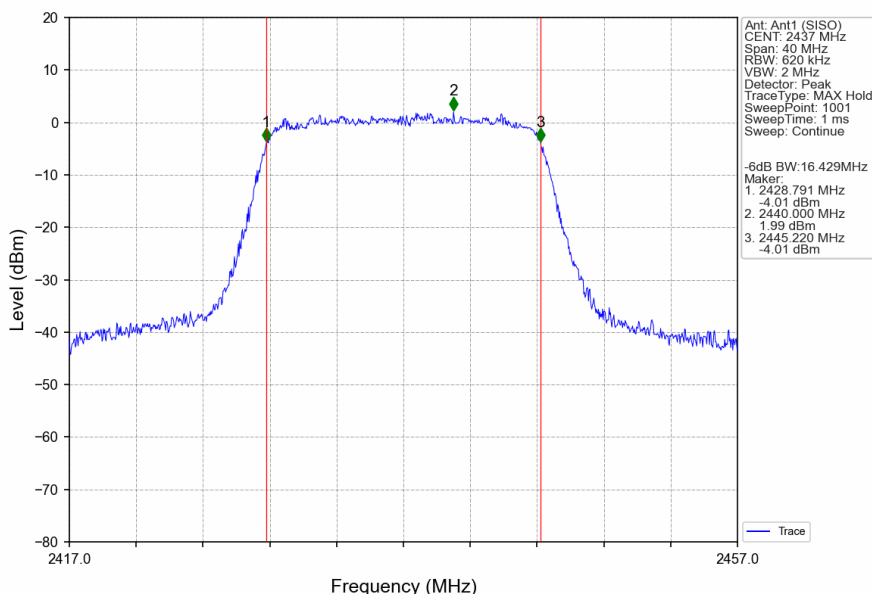
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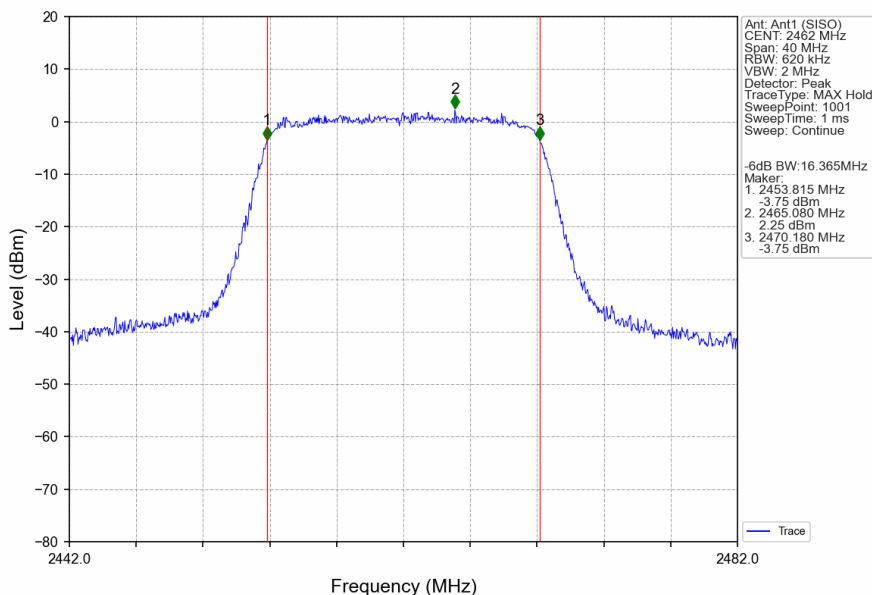
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

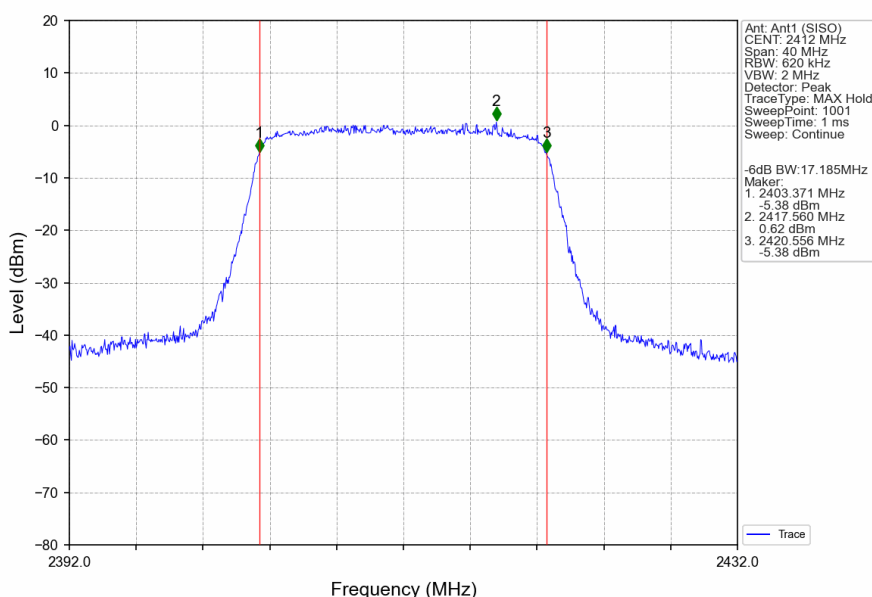


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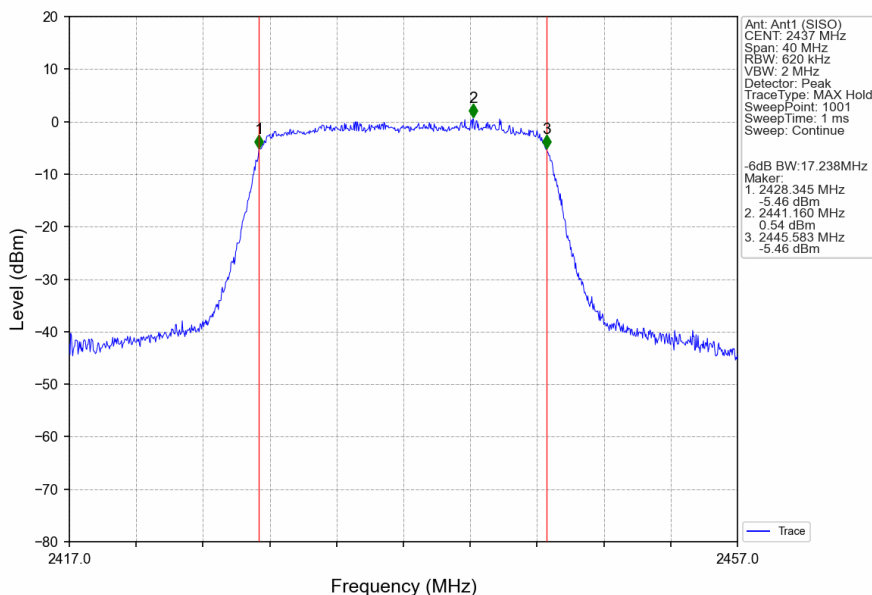
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

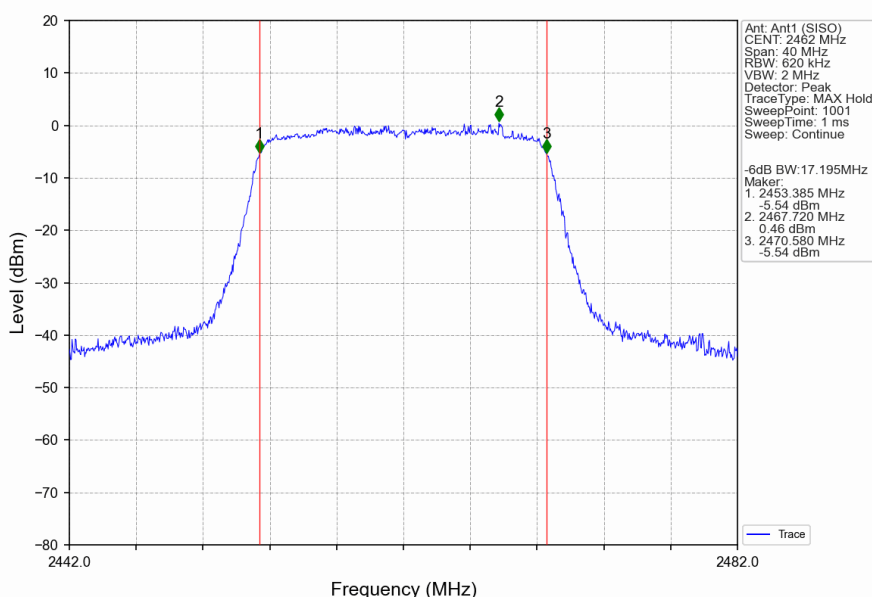


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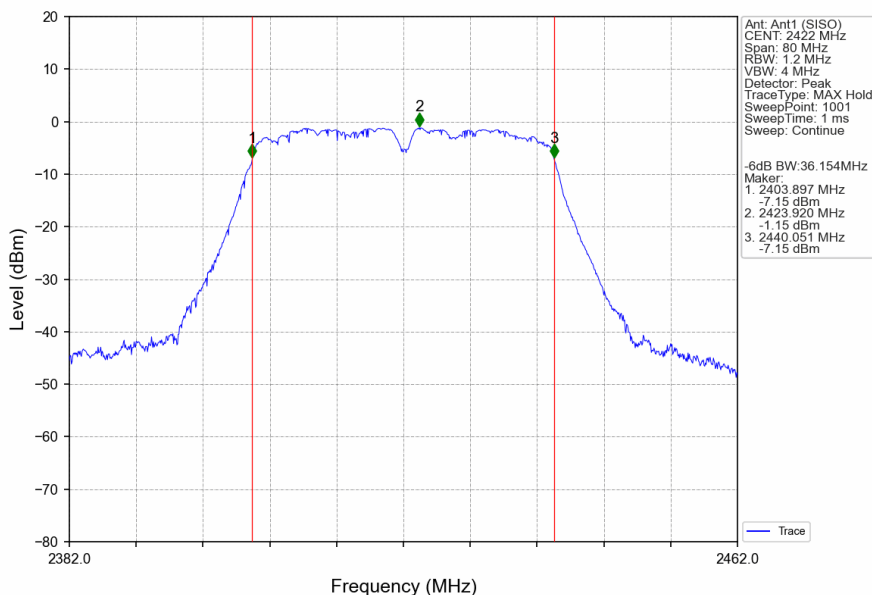
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



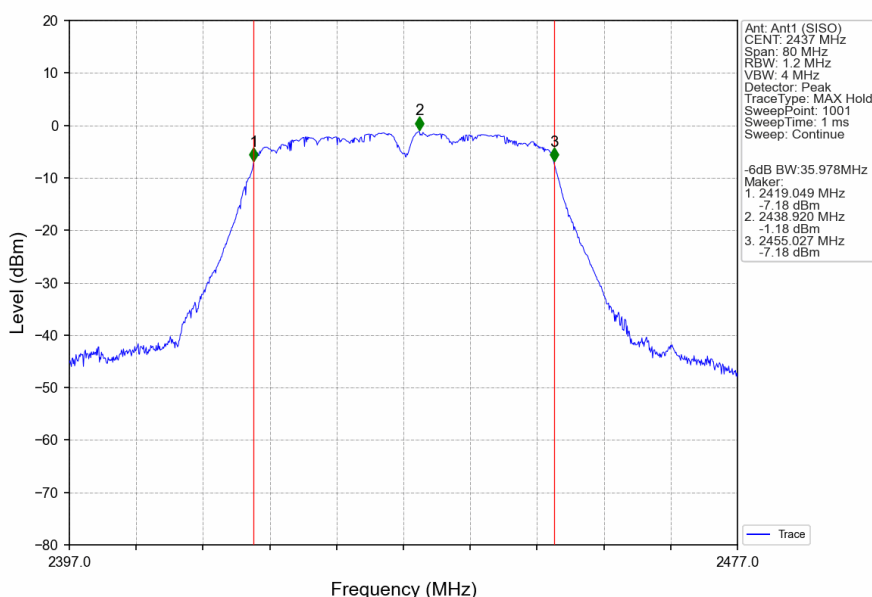
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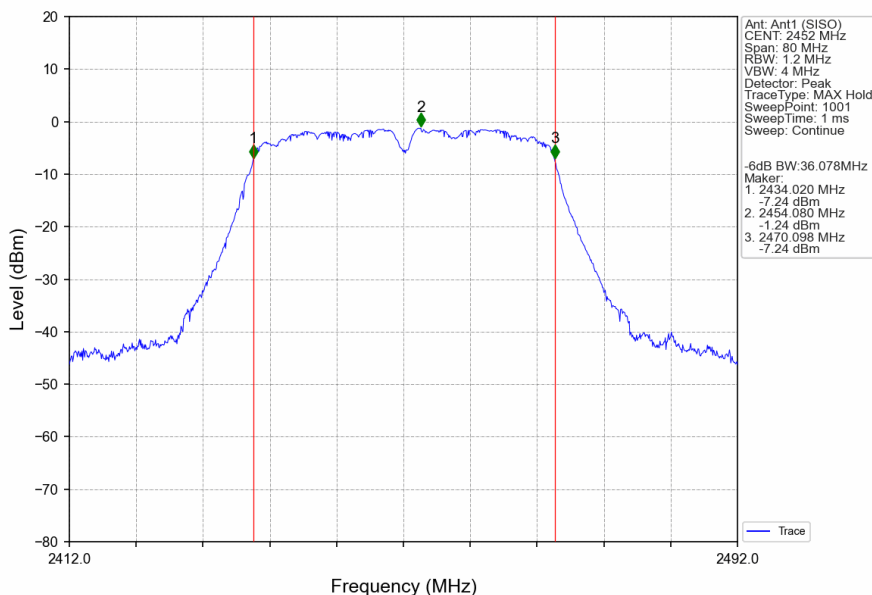
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	14.42	<=30	Pass
		2437	14.26	<=30	Pass
		2462	14.32	<=30	Pass
802.11g	SISO	2412	15.06	<=30	Pass
		2437	14.79	<=30	Pass
		2462	14.83	<=30	Pass
802.11n (HT20)	SISO	2412	13.63	<=30	Pass
		2437	13.48	<=30	Pass
		2462	13.40	<=30	Pass
802.11n (HT40)	SISO	2422	13.64	<=30	Pass
		2437	14.83	<=30	Pass
		2452	15.10	<=30	Pass



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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-0.22	<=8	Pass
		2437	-0.46	<=8	Pass
		2462	0.37	<=8	Pass
802.11g	SISO	2412	-3.48	<=8	Pass
		2437	-4.25	<=8	Pass
		2462	-3.56	<=8	Pass
802.11n (HT20)	SISO	2412	-4.89	<=8	Pass
		2437	-5.08	<=8	Pass
		2462	-4.67	<=8	Pass
802.11n (HT40)	SISO	2422	-8.14	<=8	Pass
		2437	-6.43	<=8	Pass
		2452	-6.25	<=8	Pass



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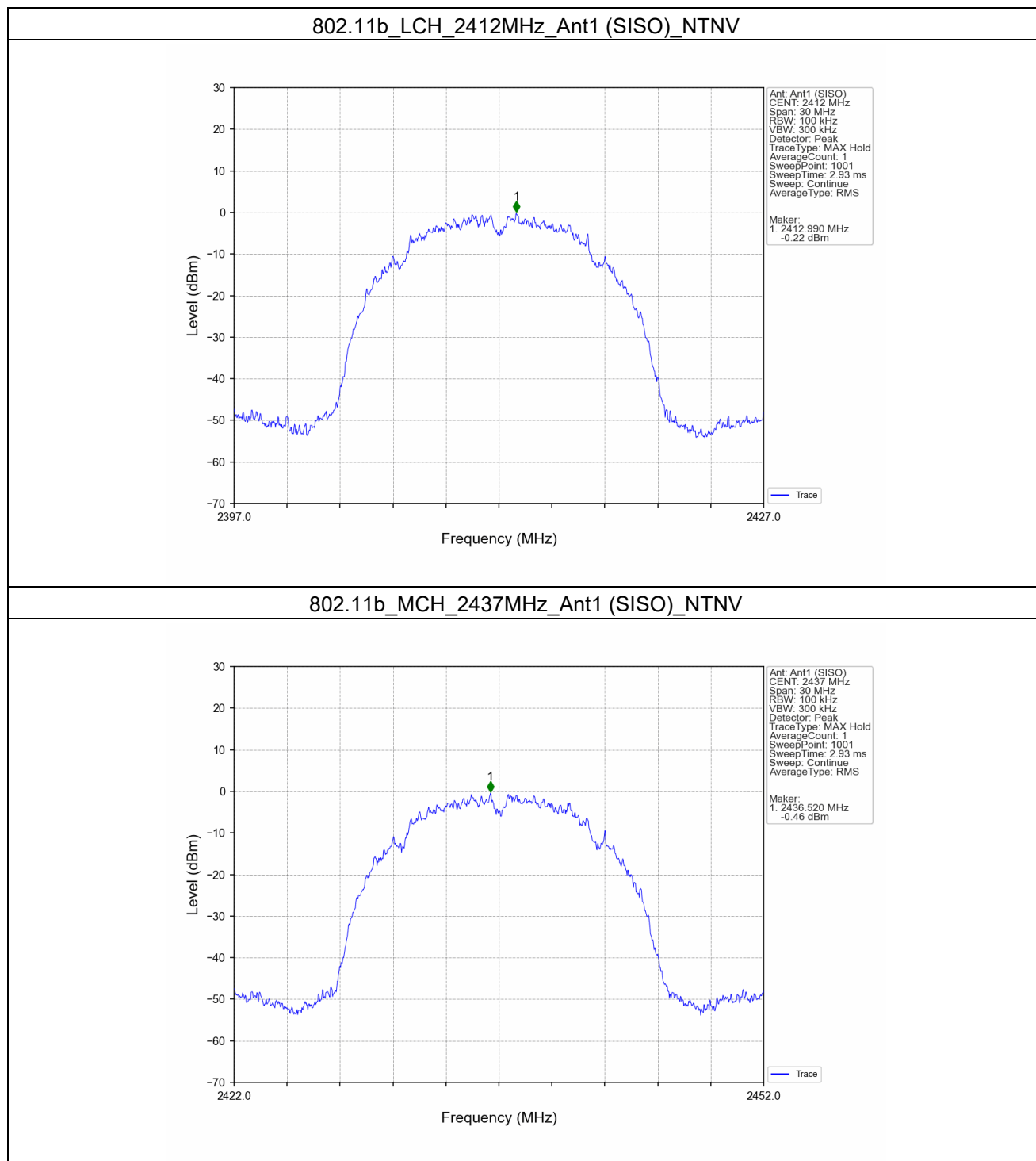
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4.2 Test Graph

4.2.1 PSD

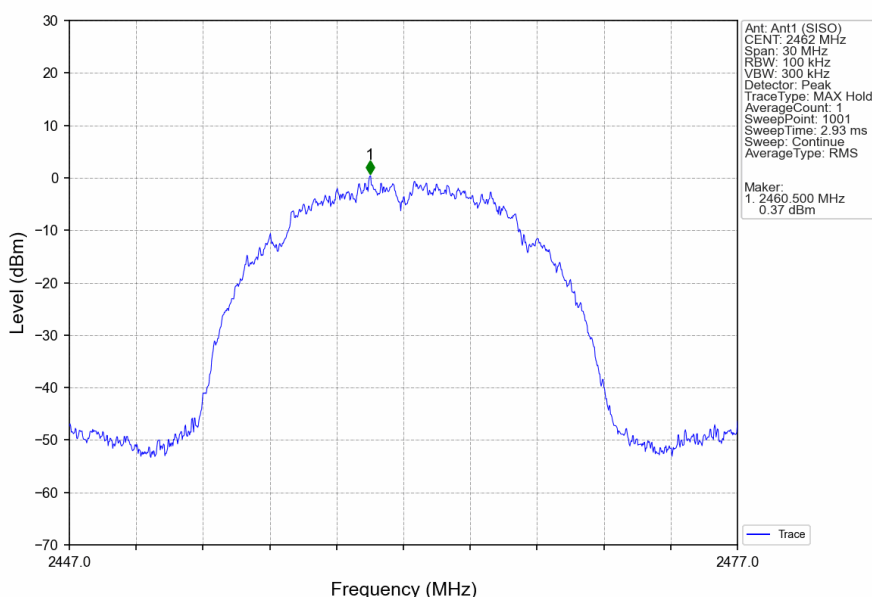


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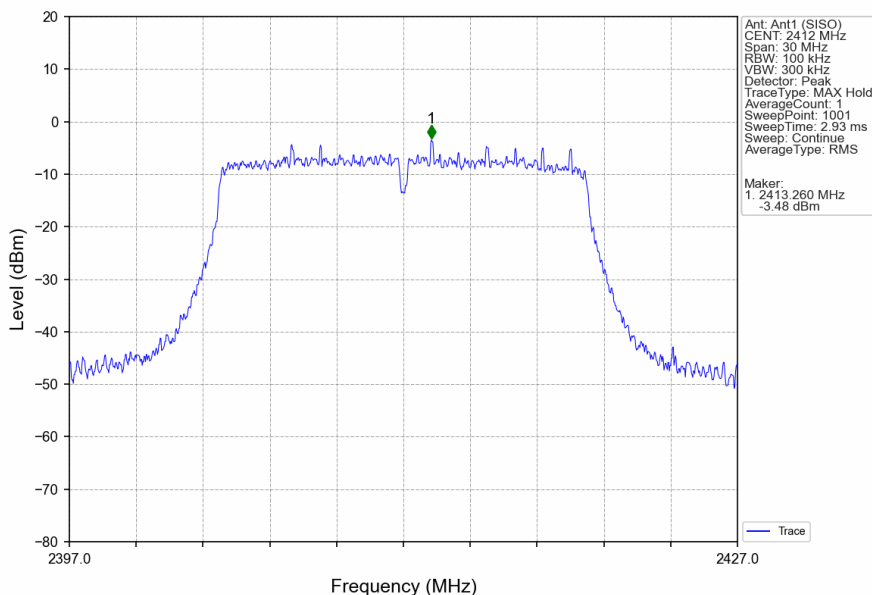
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



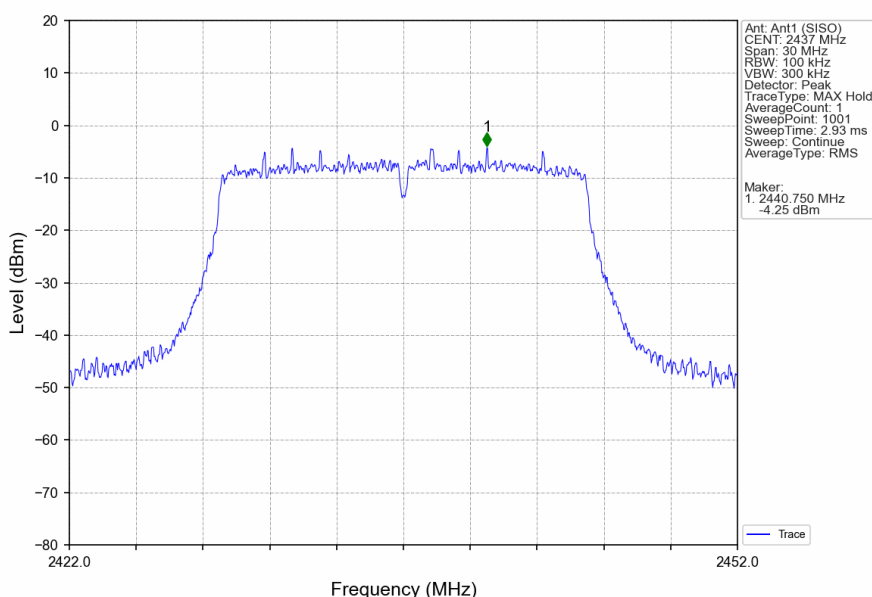
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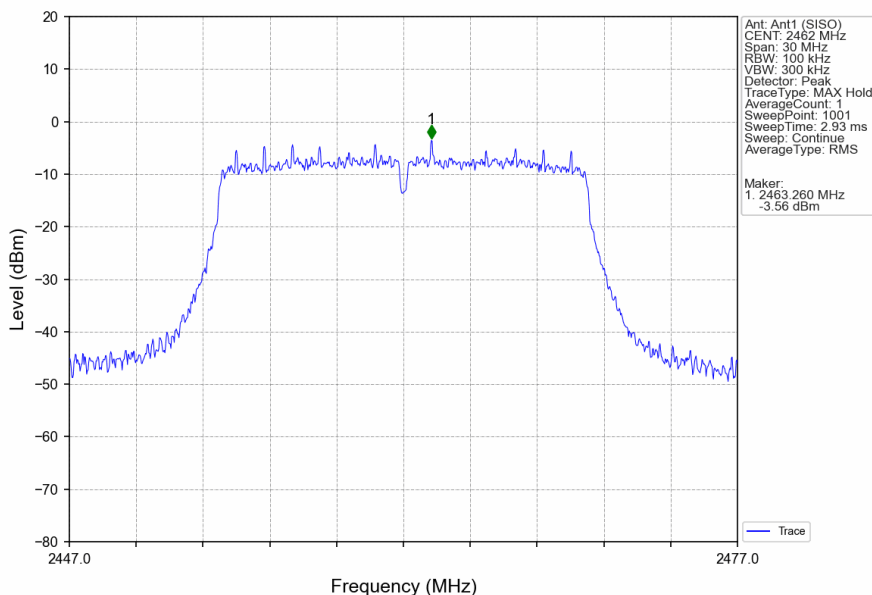
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

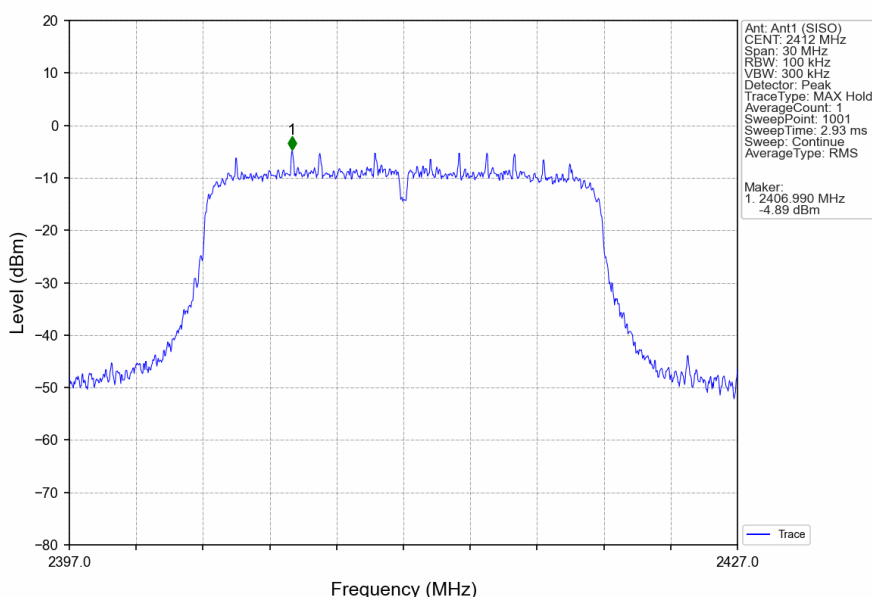


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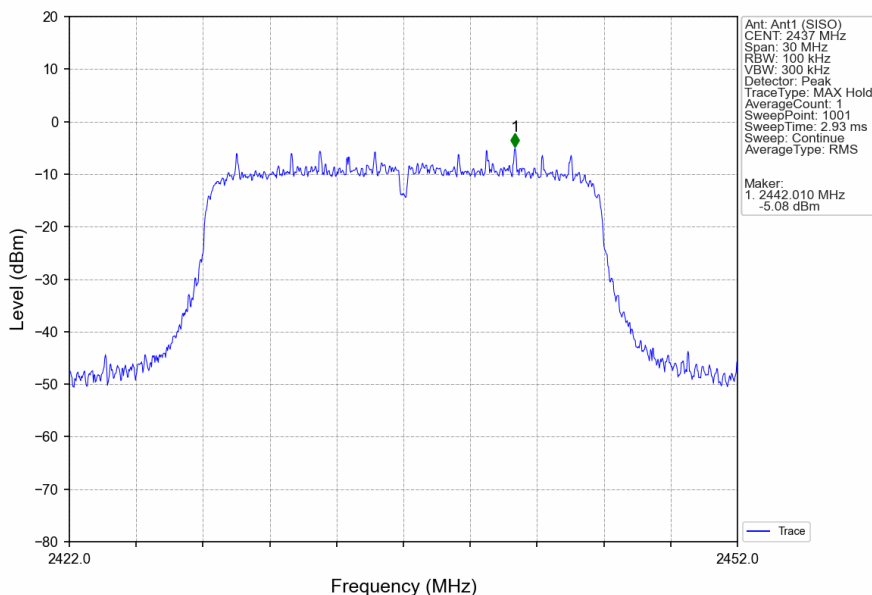
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



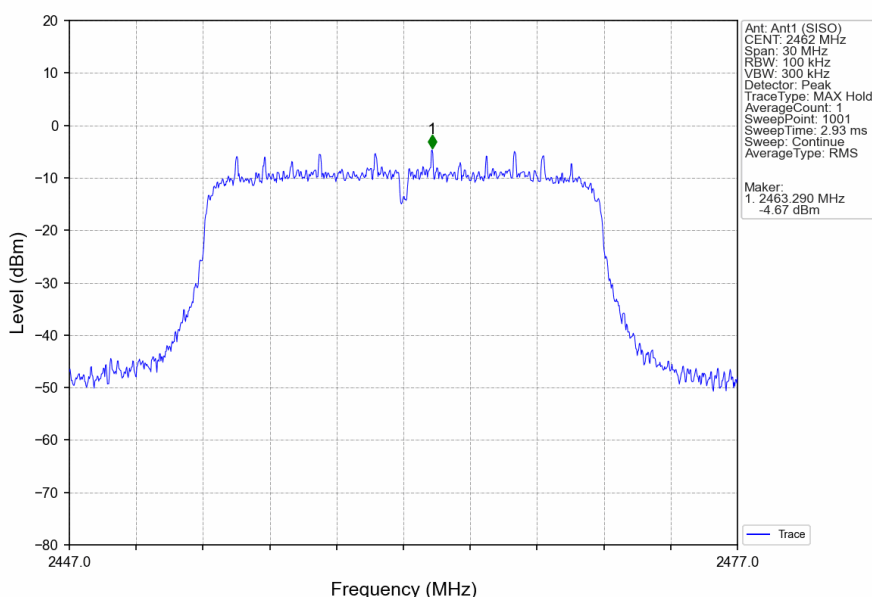
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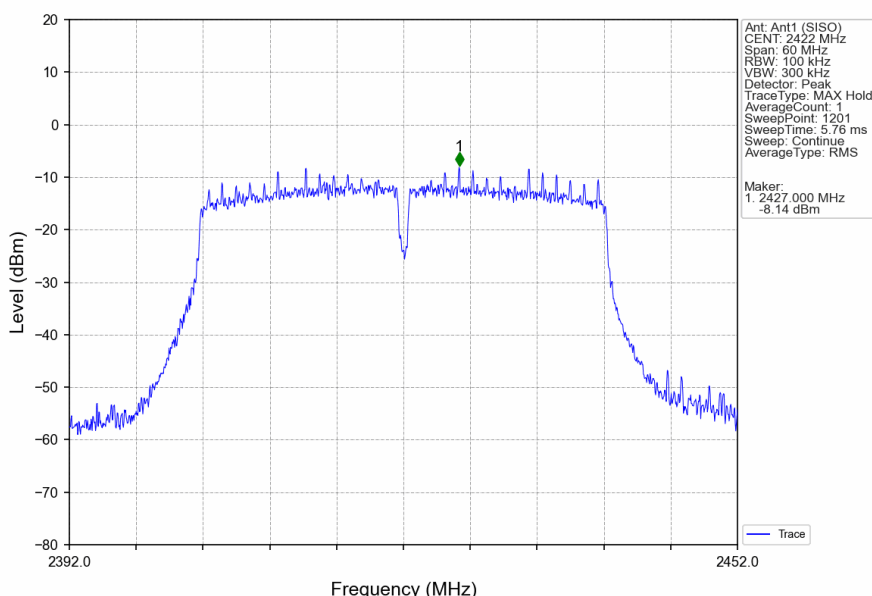
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

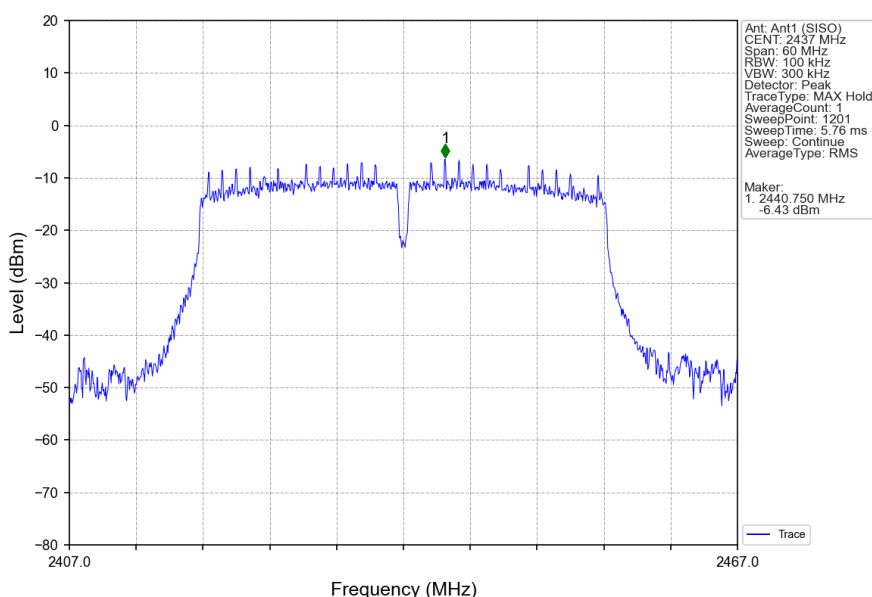


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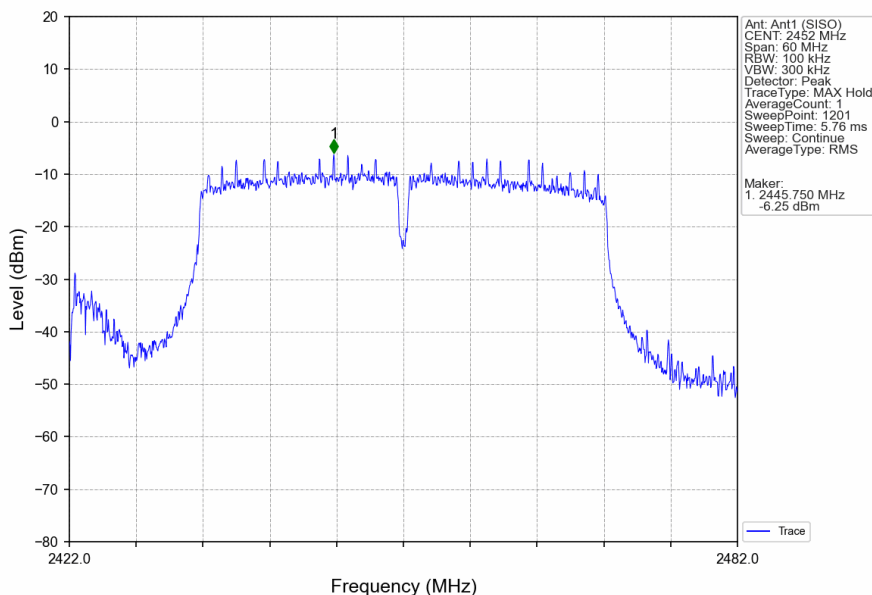
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-0.01
		2437	1	-0.06
		2462	1	-0.25
802.11g	SISO	2412	1	-3.85
		2437	1	-4.12
		2462	1	-4.41
802.11n (HT20)	SISO	2412	1	-5.13
		2437	1	-5.08
		2462	1	-4.90
802.11n (HT40)	SISO	2422	1	-4.49
		2437	1	-4.57
		2452	1	-4.75

5.1.2 CSE and Band Edges

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-0.01	-20.01	Pass
		2437	1	-0.01	-20.01	Pass
		2462	1	-0.01	-20.01	Pass
802.11g	SISO	2412	1	-3.85	-23.85	Pass
		2437	1	-3.85	-23.85	Pass
		2462	1	-3.85	-23.85	Pass
802.11n (HT20)	SISO	2412	1	-4.90	-24.90	Pass
		2437	1	-4.90	-24.90	Pass
		2462	1	-4.90	-24.90	Pass
802.11n (HT40)	SISO	2422	1	-4.49	-24.49	Pass
		2437	1	-4.49	-24.49	Pass
		2452	1	-4.49	-24.49	Pass



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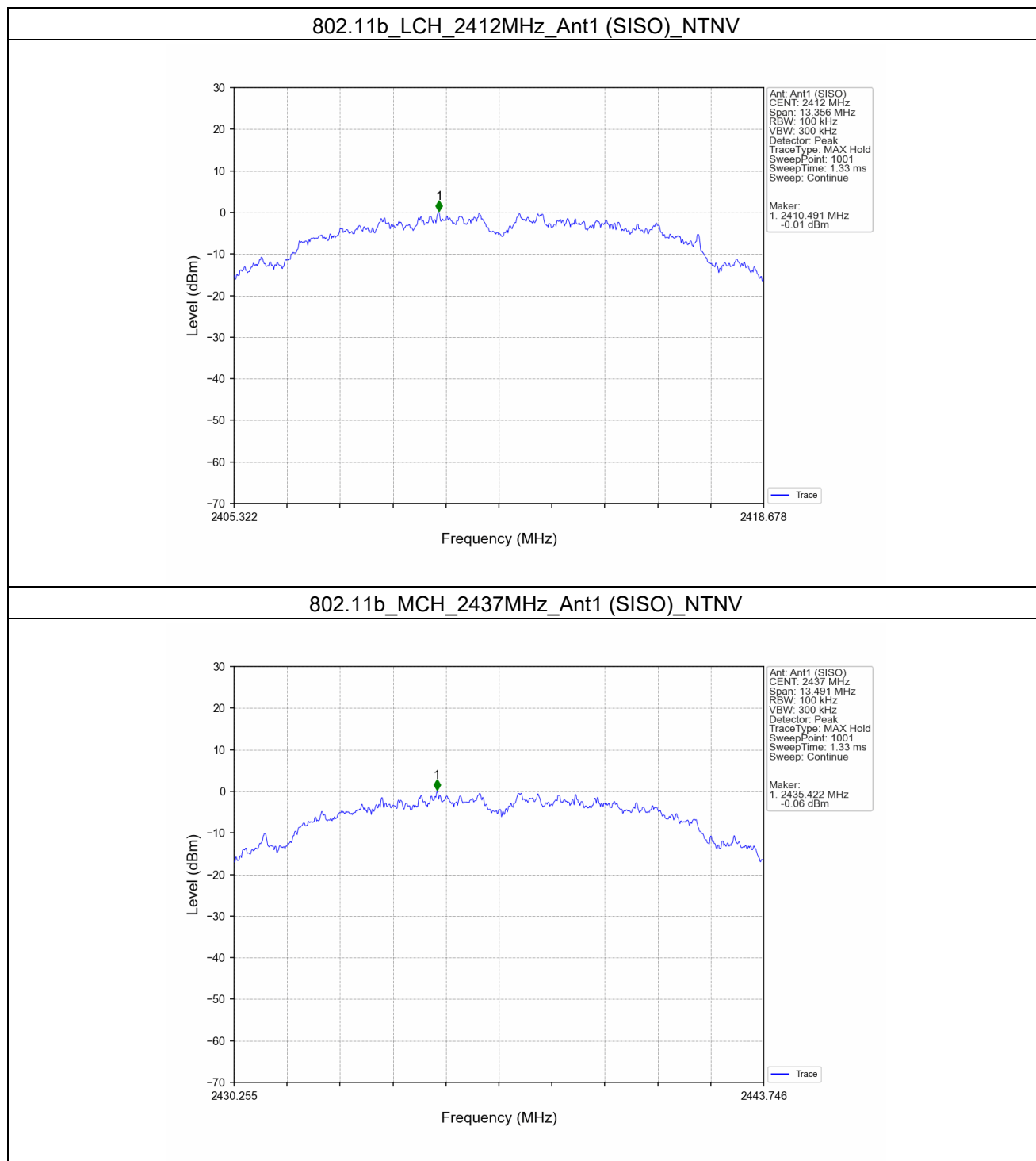
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5.2 Test Graph

5.2.1 Ref

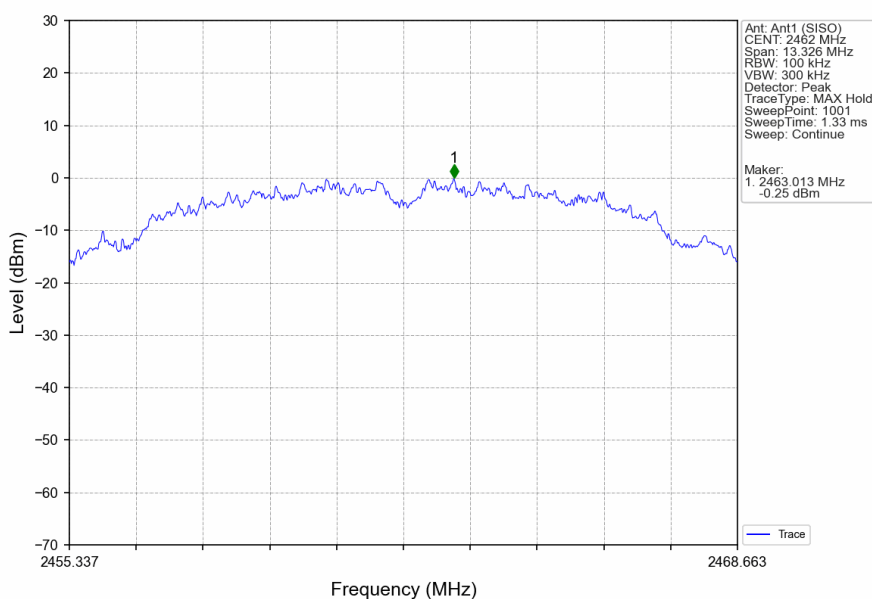


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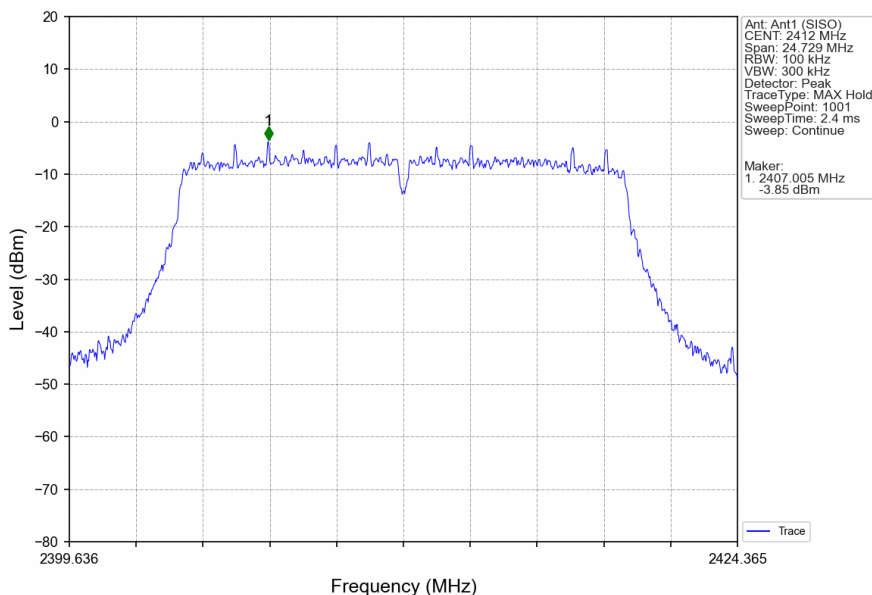
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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