



RF Test Report

For

Applicant Name: Shenzhen Qichang Intelligent Technology Co., Ltd
Address: Room 510, Building 7, Yunli Intelligent Park, No. 7, Bantian Street, Longgang, Shenzhen, China
EUT Name: Smart phone
Brand Name: FOSSIBOT
Model Number: F109
Series Model Number: F109 Pro, F109 P, F109 S, F109 Plus

Issued By

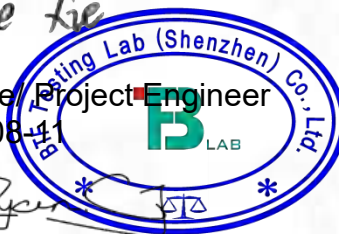
Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Report Number: BTF240704R01603
Test Standards: 47 CFR Part 15.247

Test Conclusion: Pass
FCC ID: 2BAK2-F109
Test Date: 2024-07-07 to 2024-08-10
Date of Issue: 2024-08-11

Test By: Ssxx.guo
Ssxx.guo/ Tester

Prepared By: Ace Xie
Date: 2024-08-11
Approved By: Ryan.CJ
Date: 2024-08-11



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Revision History		
Version	Issue Date	Revisions Content
R_V0	2024-08-11	Original
<i>Note: Once the revision has been made, then previous versions reports are invalid.</i>		

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1 Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130
FCC Registration Number:	518915
Designation Number:	CN1330

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 Product Information

2.1 Application Information

Company Name:	Shenzhen Qichang Intelligent Technology Co., Ltd
Address:	Room 510, Building 7, Yunli Intelligent Park, No. 7, Bantian Street, Longgang, Shenzhen, China

2.2 Manufacturer Information

Company Name:	Shenzhen Qichang Intelligent Technology Co., Ltd
Address:	Room 510, Building 7, Yunli Intelligent Park, No. 7, Bantian Street, Longgang, Shenzhen, China

2.3 Factory Information

Company Name:	Shenzhen Qichang Intelligent Technology Co., Ltd
Address:	Room 510, Building 7, Yunli Intelligent Park, No. 7, Bantian Street, Longgang, Shenzhen, China

2.4 General Description of Equipment under Test (EUT)

EUT name	Smart phone
Under test model name	F109
Series model name	F109 Pro, F109 P, F109 S, F109 Plus
Description of model name differentiation	Only the model name is different, everything else is the same.
Hardware version	E393_MAIN_PCB_V1.1
Software version	FOSSIBOT_F109_E

2.5 Technical Information

Power Supply:	AC100-240V, 50/60Hz From Adapter Rechargeable Li-ion polymer Battery DC3.87V
Power Adaptor:	Model No.:QZ-0180AAA00 Input: AC100-240V, 50/60Hz 0.5A Output: 5V ---3.0A 15.0W 9.0V ---2.0A 18.0W 12.0V ---1.5A 18.0W
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;
Number of Channels:	802.11b/g/n(HT20): 11 Channels
Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n(HT20): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type:	Interior Antenna
Antenna Gain#:	0.22 dBi
Note: #: The antenna gain provided by the applicant, and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.	

3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

3.2 Uncertainty of Test

Item	Measurement Uncertainty
Conducted Emission (150 kHz-30 MHz)	$\pm 2.64\text{dB}$
Occupied Bandwidth	$\pm 69\text{kHz}$
Transmitter Power, Conducted	$\pm 0.87\text{dB}$
Power Spectral Density	$\pm 0.69\text{dB}$
Conducted Spurious Emissions	$\pm 0.95\text{dB}$
Radiated Spurious Emissions (above 1GHz)	1-6GHz: $\pm 3.94\text{dB}$ 6-18GHz: $\pm 4.16\text{dB}$
Radiated Spurious Emissions (30M - 1GHz)	$\pm 4.12\text{dB}$

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
Occupied Bandwidth	47 CFR Part 15.247	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	47 CFR Part 15.247	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass

4 Test Configuration

4.1 Test Equipment List

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	2023-11-13	2024-11-12
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2023-11-13	2024-11-12
V-LISN	SCHWARZBECK	NSLK 8127	01073	2023-11-16	2024-11-15
LISN	AFJ	LS16/110VAC	16010020076	2024-02-22	2025-02-21
EMI Receiver	ROHDE&SCHWARZ	ESCI3	101422	2023-11-15	2024-11-14

Occupied Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in non-restricted frequency bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2023-11-13	2024-11-12
RF Sensor Unit	Techy	TR1029-2	/	2023-11-13	2024-11-12
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2023-11-13	2024-11-12
WIDEBAND RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2023-11-16	2024-11-15
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2023-11-16	2024-11-15

Band edge emissions (Radiated)					
Emissions in frequency bands (below 1GHz)					
Emissions in frequency bands (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2024-03-23	2025-03-22
Preamplifier	SCHWARZBECK	BBV9744	00246	2023-11-13	2024-11-12
RE Cable	REBES Talent	UF1-SMASMAM-10m	21101566	2023-11-13	2024-11-12
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2023-11-13	2024-11-12
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	2023-11-13	2024-11-12
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2023-11-13	2024-11-12
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2023-11-13	2024-11-12
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	2023-11-13	2024-11-12
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2023-11-13	2024-11-12
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2023-11-16	2024-11-15
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	2023-11-13	2024-11-12
Broadband Preamplifier	SCHWARZBECK	BBV9718D	00008	2024-03-23	2025-03-22
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2024-05-21	2025-05-20
EZ EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	2023-11-13	2024-11-12
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2023-11-13	2024-11-12

4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

4.3 Test Modes

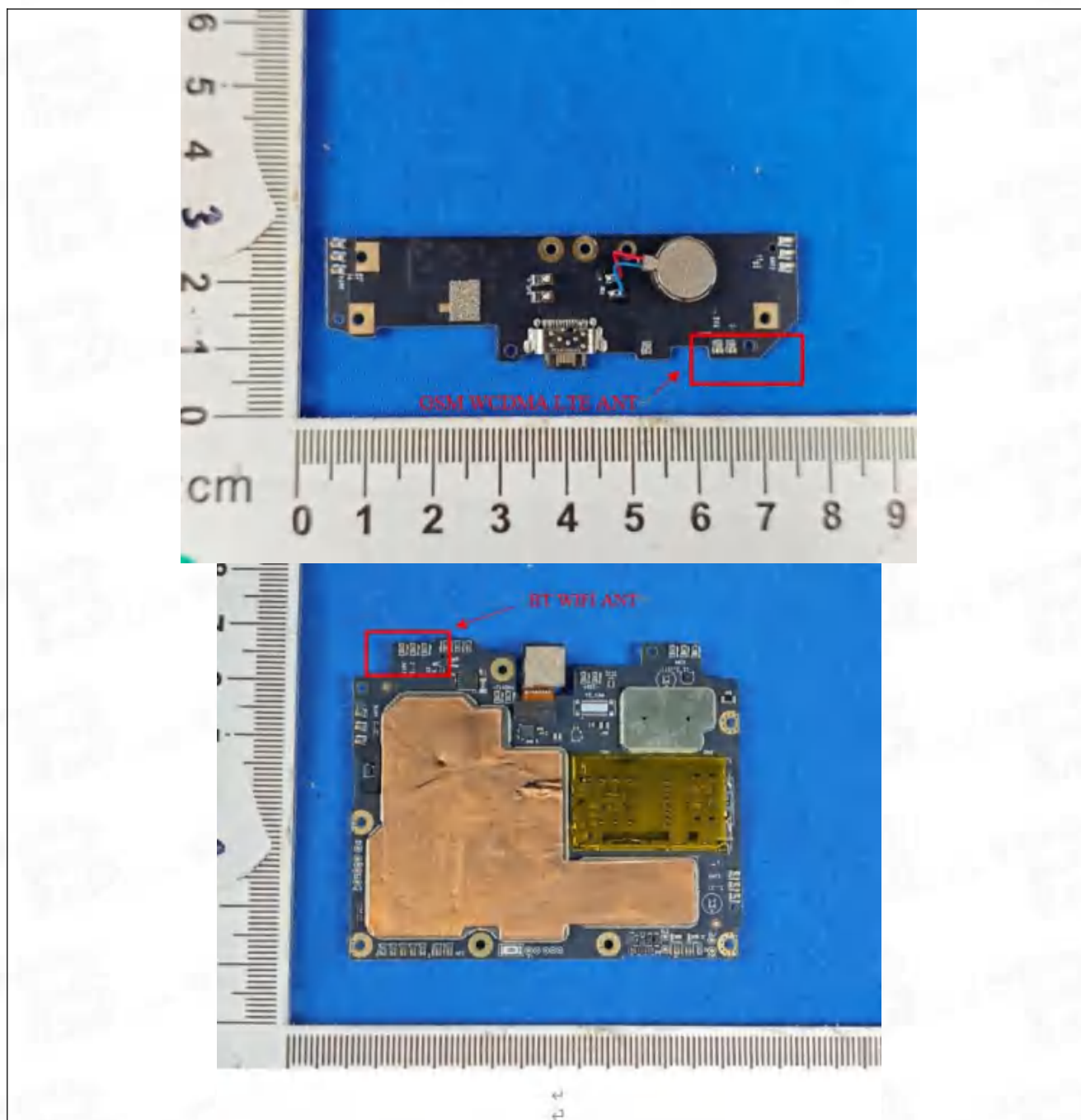
No.	Test Modes	Description
TM1	802.11b mode	Keep the EUT in 802.11b transmitting mode.
TM2	802.11g mode	Keep the EUT in 802.11g transmitting mode.
TM3	802.11n(HT20) mode	Keep the EUT in 802.11n(HT20) transmitting mode.

5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.
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5.1.1 Conclusion:



6 Radio Spectrum Matter Test Results (RF)

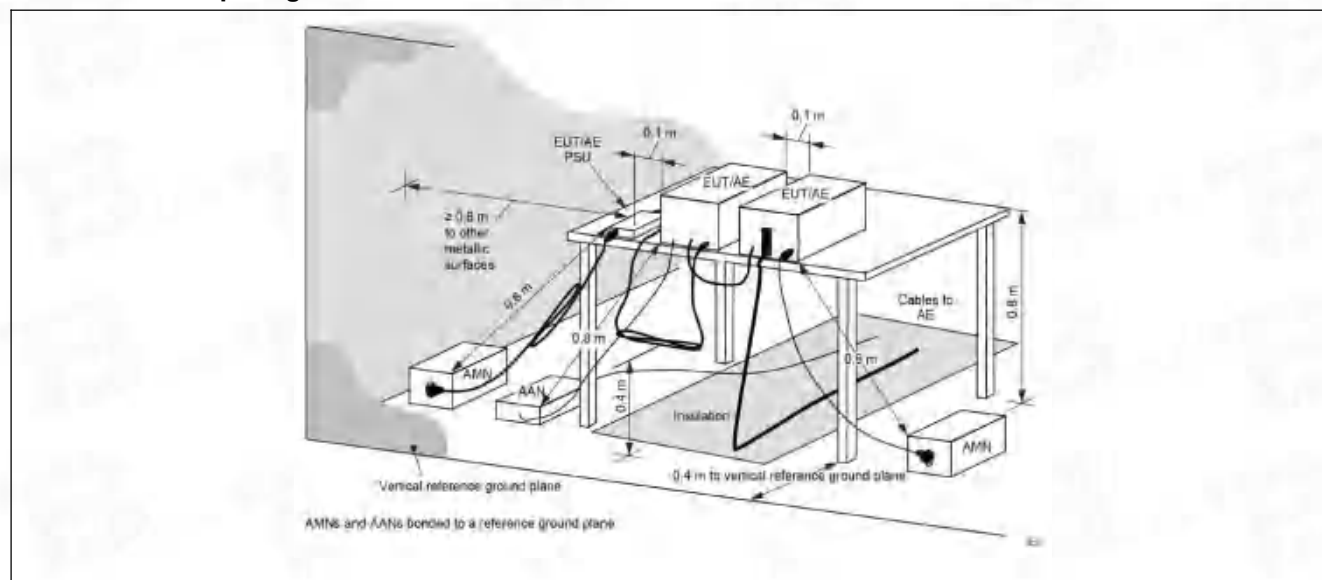
6.1 Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).		
Test Method:	ANSI C63.10-2013 section 6.2		
Test 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.		
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

6.1.1 E.U.T. Operation:

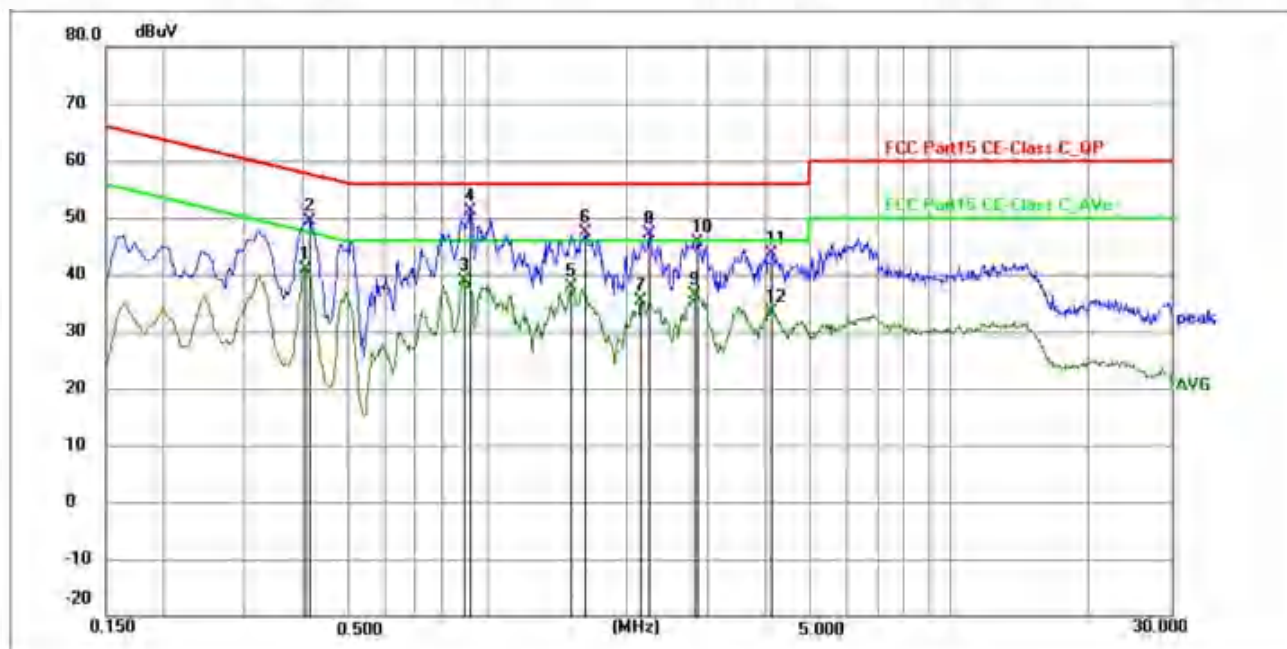
Operating Environment:	
Temperature:	24.7 °C
Humidity:	52 %
Atmospheric Pressure:	1010 mbar

6.1.2 Test Setup Diagram:



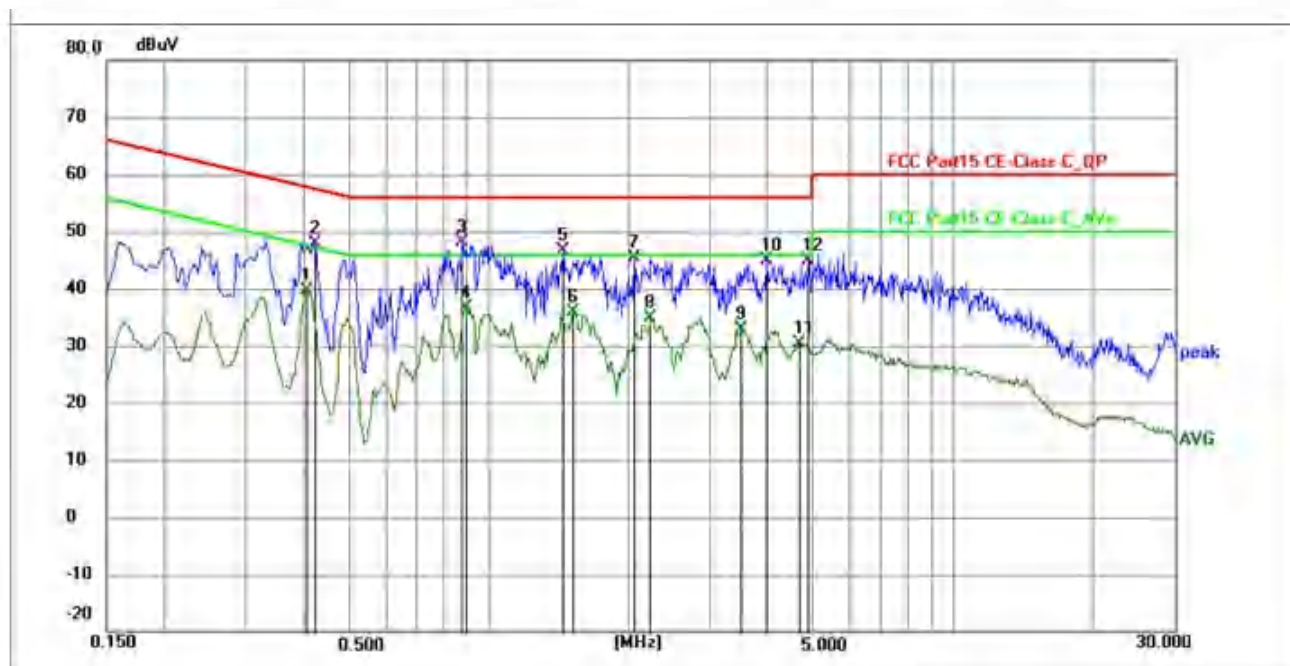
6.1.3 Test Data:

TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 20 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.4020	30.27	10.57	40.84	47.81	-6.97	AVG	P	
2	0.4110	38.69	10.57	49.26	57.63	-8.37	QP	P	
3	0.8921	28.22	10.68	38.90	46.00	-7.10	AVG	P	
4 *	0.9193	40.35	10.67	51.02	56.00	-4.98	QP	P	
5	1.5135	27.26	10.66	37.92	46.00	-8.08	AVG	P	
6	1.6305	36.70	10.67	47.37	56.00	-8.63	QP	P	
7	2.1524	24.59	10.68	35.27	46.00	-10.73	AVG	P	
8	2.2470	36.44	10.68	47.12	56.00	-8.88	QP	P	
9	2.8050	25.76	10.68	36.44	46.00	-9.56	AVG	P	
10	2.8500	34.95	10.68	45.63	56.00	-10.37	QP	P	
11	4.1412	33.06	10.69	43.75	56.00	-12.25	QP	P	
12	4.1412	22.78	10.69	33.47	46.00	-12.53	AVG	P	

TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 20 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.4020	29.10	10.57	39.67	47.81	-8.14	AVG	P	
2	0.4200	37.31	10.57	47.88	57.45	-9.57	QP	P	
3 *	0.8790	37.48	10.68	48.16	56.00	-7.84	QP	P	
4	0.8921	26.06	10.68	36.74	46.00	-9.26	AVG	P	
5	1.4415	35.98	10.66	46.64	56.00	-9.36	QP	P	
6	1.5135	25.31	10.66	35.97	46.00	-10.03	AVG	P	
7	2.0625	34.61	10.68	45.29	56.00	-10.71	QP	P	
8	2.2290	24.14	10.68	34.82	46.00	-11.18	AVG	P	
9	3.5070	22.36	10.63	32.99	46.00	-13.01	AVG	P	
10	3.9840	34.17	10.68	44.85	56.00	-11.15	QP	P	
11	4.6950	19.77	10.71	30.48	46.00	-15.52	AVG	P	
12	4.9064	34.27	10.72	44.99	56.00	-11.01	QP	P	

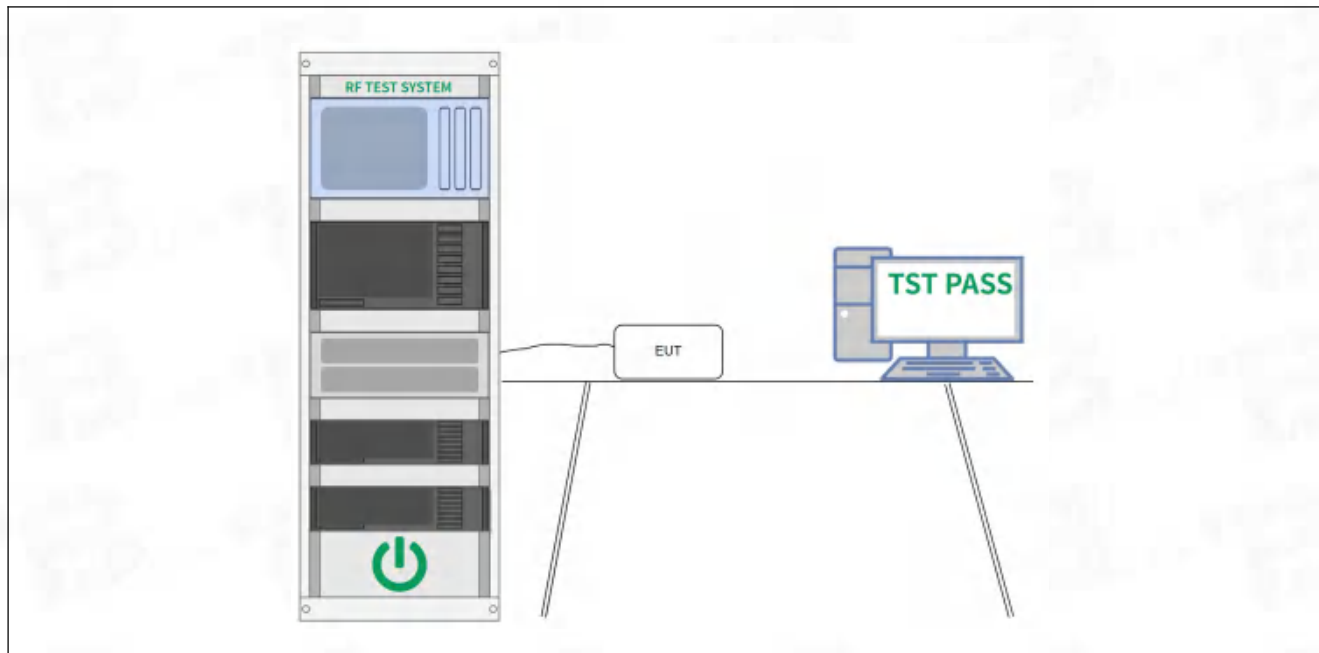
6.2 Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Method:	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Procedure:	a) Set RBW = 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.2.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.3 °C
Humidity:	50 %
Atmospheric Pressure:	1010 mbar

6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.

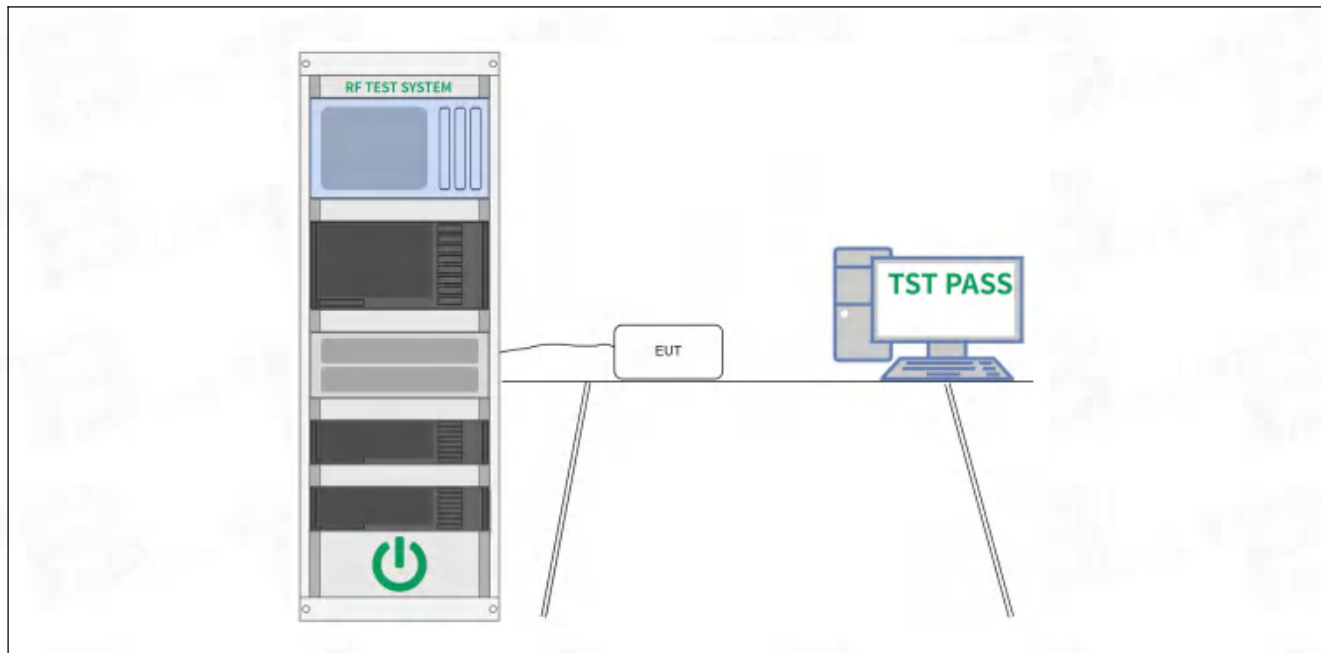
6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Method:	ANSI C63.10-2020, section 11.9.2 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Procedure:	ANSI C63.10-2013, section 11.9.2 Maximum conducted (average) output power

6.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.3 °C
Humidity:	50 %
Atmospheric Pressure:	1010 mbar

6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.

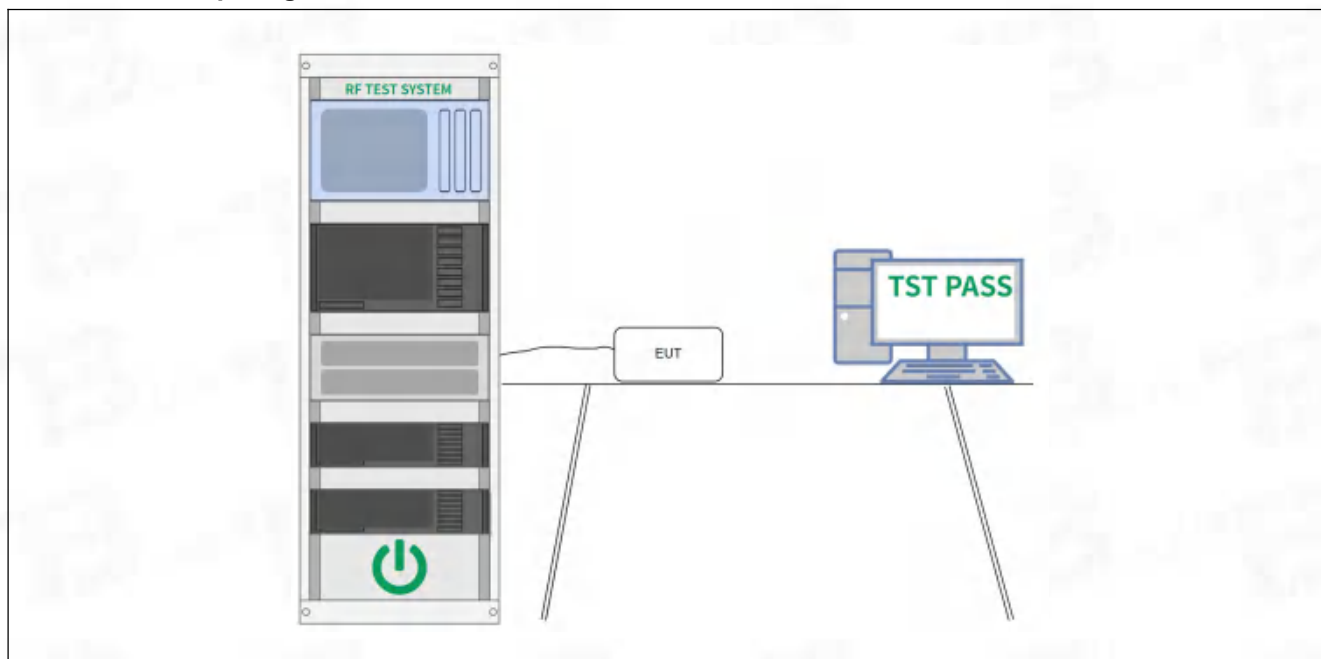
6.4 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Method:	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Procedure:	ANSI C63.10-2013, section 11.10, Maximum power spectral density level in the fundamental emission

6.4.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.3 °C
Humidity:	50 %
Atmospheric Pressure:	1010 mbar

6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.

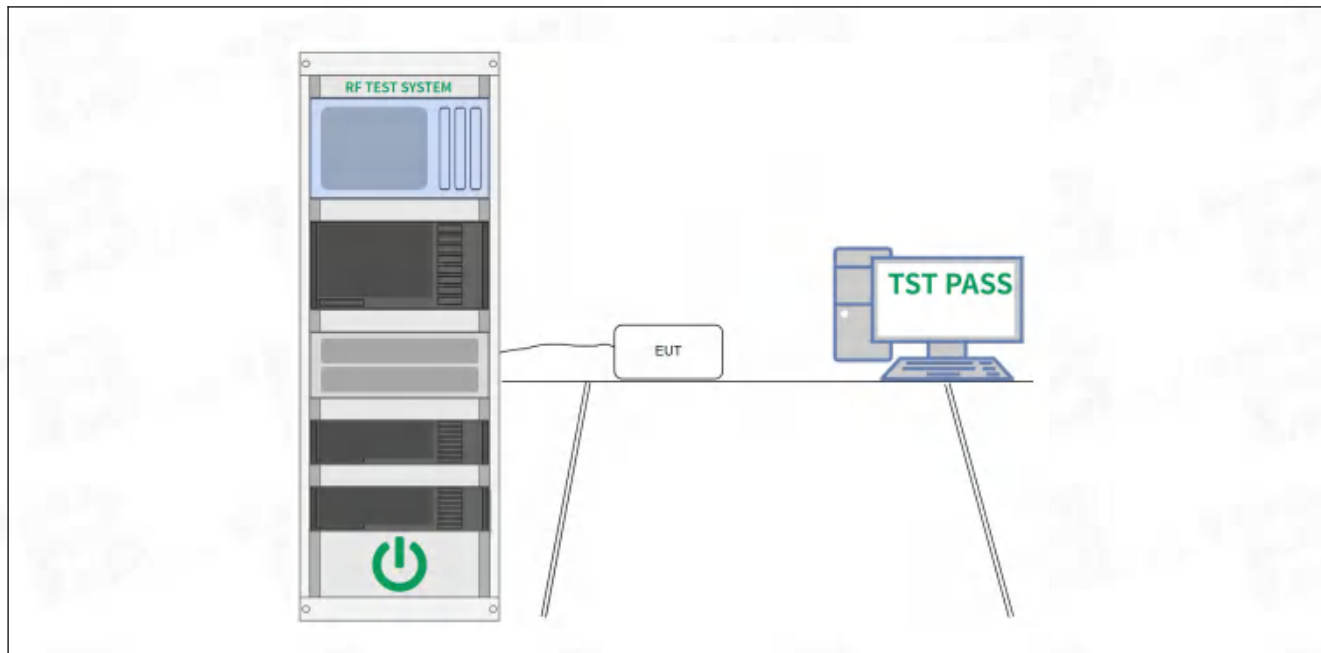
6.5 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Method:	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(d), 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.
Procedure:	ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.5.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.3 °C
Humidity:	50 %
Atmospheric Pressure:	1010 mbar

6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.

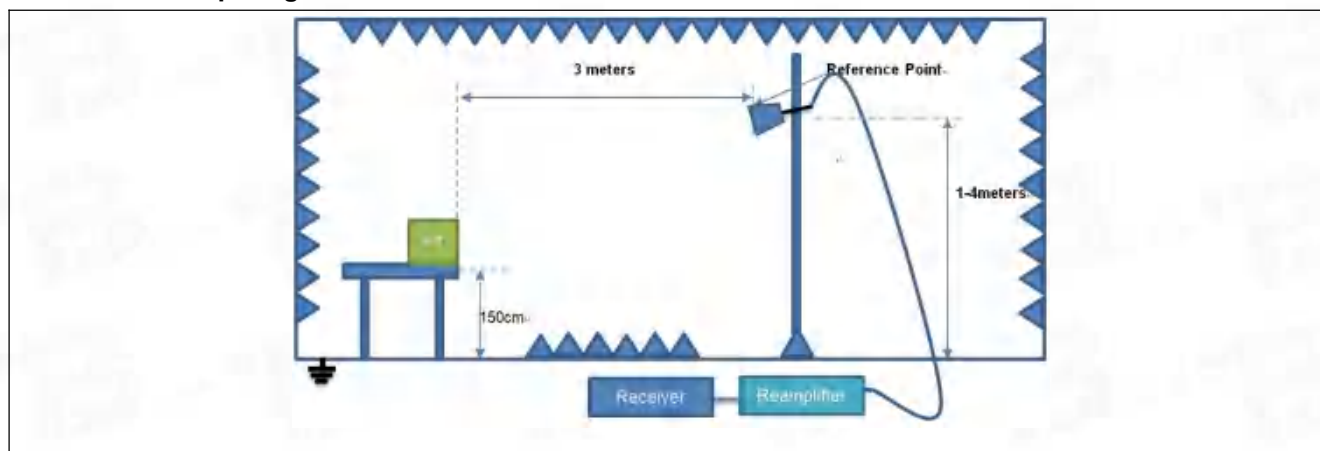
6.6 Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), 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)).		
Test Method:	ANSI C63.10-2020 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02		
Test 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
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Procedure:	ANSI C63.10-2013 section 6.10.5.2		

6.6.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.7 °C
Humidity:	52 %
Atmospheric Pressure:	1010 mbar

6.6.2 Test Setup Diagram:



6.6.3 Test Data:

Note: All the mode have been tested, and only the worst case of 802.11b mode are in the repor

Frequency	Meter Reading	Preampl Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
1Mbps(GFSK)							
2310.00	64.08	-30.59	33.49	74	-40.51	Pk	Horizontal
2310.00	42.91	-30.59	12.32	54	-41.68	AV	Horizontal
2310.00	62.13	-30.59	31.54	74	-42.46	Pk	Vertical
2310.00	42.68	-30.59	12.09	54	-41.91	AV	Vertical
2390.00	64.44	-30.49	33.95	74	-40.05	Pk	Vertical
2390.00	42.21	-30.49	11.72	54	-42.28	AV	Vertical
2390.00	64.15	-30.49	33.66	74	-40.34	Pk	Horizontal
2390.00	42.81	-30.49	12.32	54	-41.68	AV	Horizontal
2483.50	63.30	-30.39	32.91	74	-41.09	Pk	Vertical
2483.50	43.80	-30.39	13.41	54	-40.59	AV	Vertical
2483.50	64.99	-30.39	34.60	74	-39.40	Pk	Horizontal
2483.50	44.24	-30.39	13.85	54	-40.15	AV	Horizontal
2500.00	63.12	-30.37	32.75	74	-41.25	Pk	Vertical
2500.00	43.78	-30.37	13.41	54	-40.59	AV	Vertical
2500.00	64.45	-30.37	34.08	74	-39.92	Pk	Horizontal
2500.00	44.12	-30.37	13.75	54	-40.25	AV	Horizontal

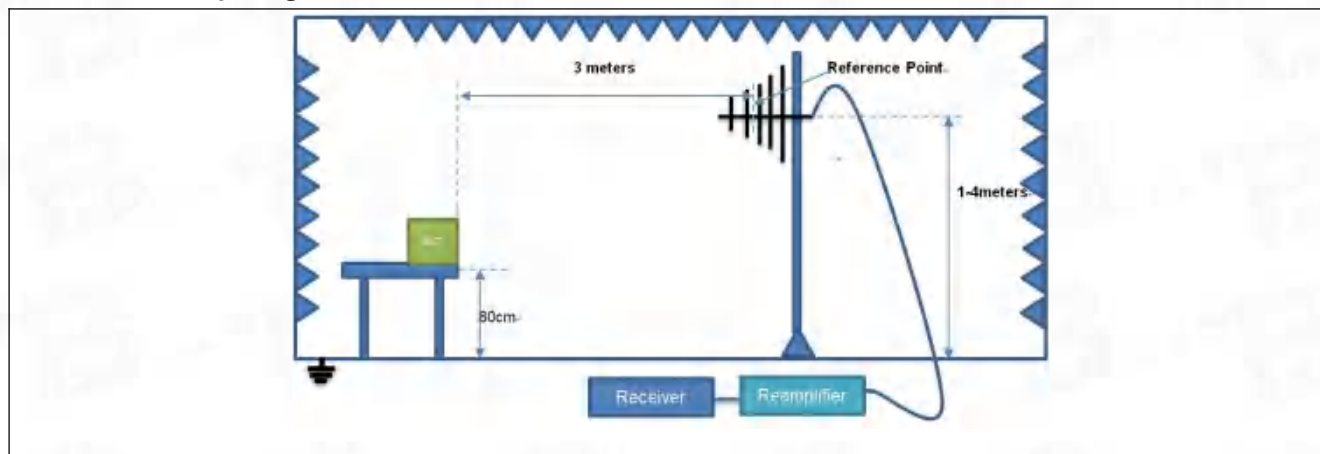
6.7 Emissions in frequency bands (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), 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)).`		
Test Method:	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Test 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
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Procedure:	ANSI C63.10-2013 section 6.6.4		

6.7.1 E.U.T. Operation:

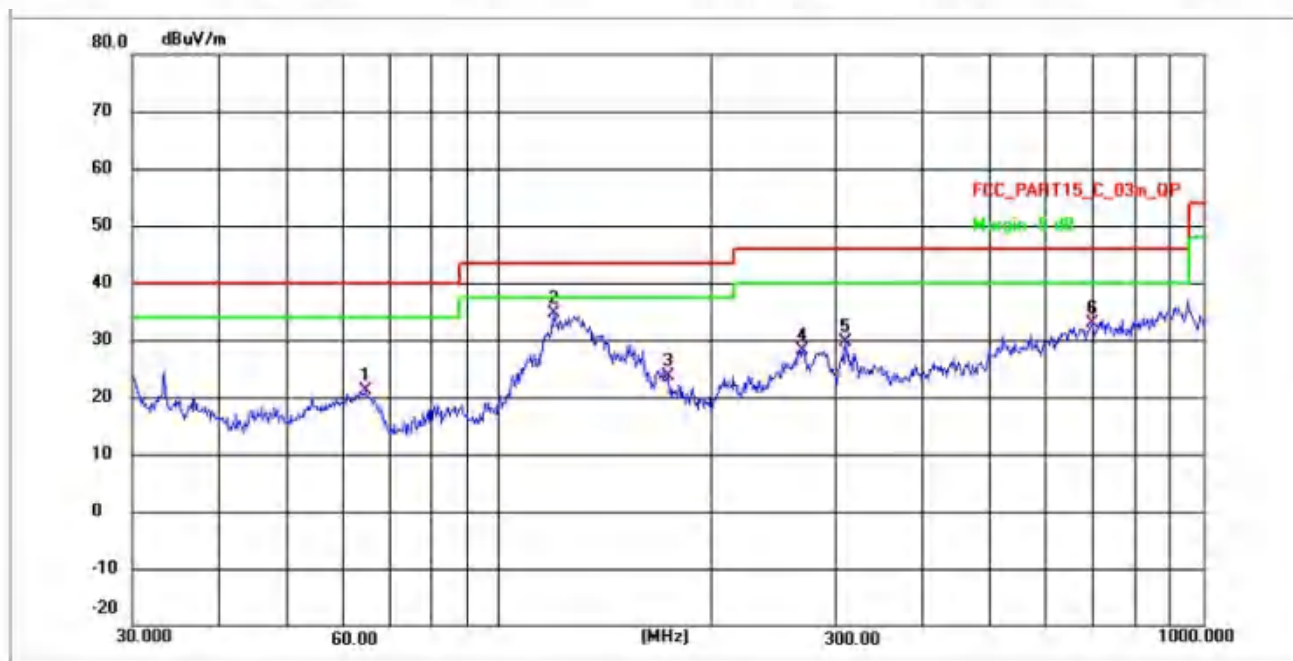
Operating Environment:	
Temperature:	24.6 °C
Humidity:	52 %
Atmospheric Pressure:	1010 mbar

6.7.2 Test Setup Diagram:



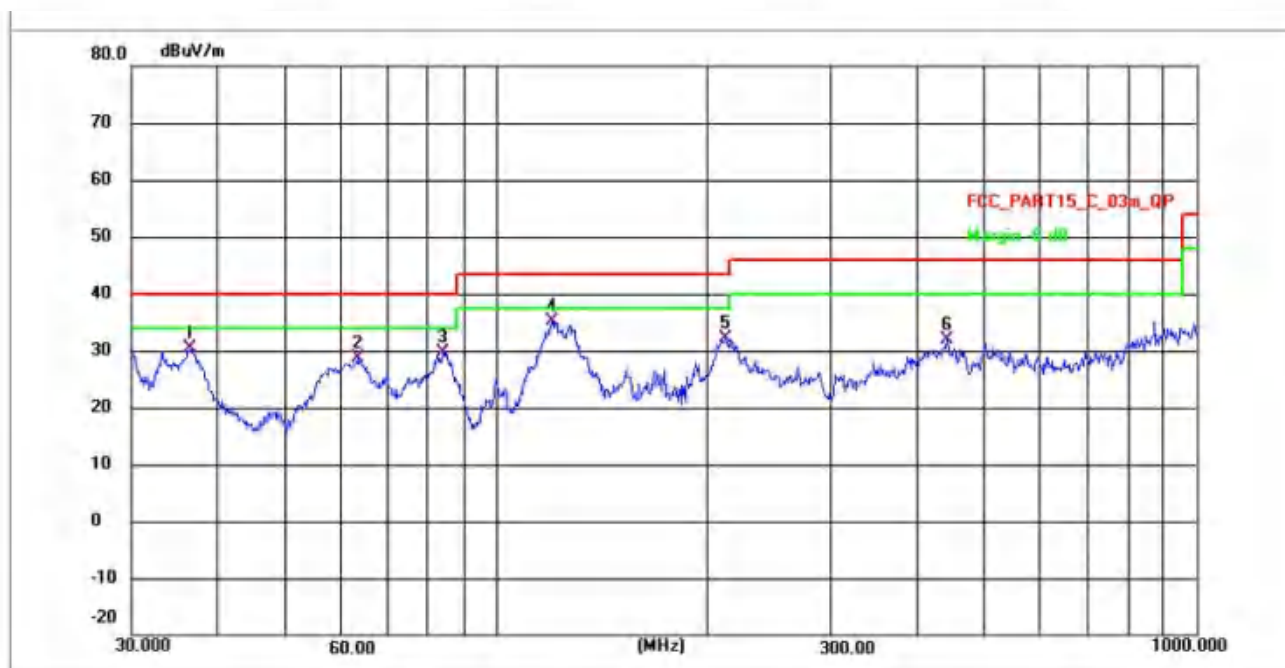
6.7.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	64.4330	30.44	-9.41	21.03	40.00	-18.97	QP	P
2 *	119.6456	56.80	-22.29	34.51	43.50	-8.99	QP	P
3	174.1184	45.52	-21.78	23.74	43.50	-19.76	QP	P
4	269.9010	49.03	-20.88	28.15	46.00	-17.85	QP	P
5	309.9977	50.22	-20.54	29.68	46.00	-16.32	QP	P
6	695.6360	50.56	-17.64	32.92	46.00	-13.08	QP	P

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	36.6372	39.96	-9.65	30.31	40.00	-9.69	QP	P
2	63.2023	38.05	-9.42	28.63	40.00	-11.37	QP	P
3	84.1100	52.39	-22.71	29.68	40.00	-10.32	QP	P
4 *	119.8555	57.45	-22.29	35.16	43.50	-8.34	QP	P
5	212.6420	53.65	-21.41	32.24	43.50	-11.26	QP	P
6	441.7425	51.34	-19.48	31.86	46.00	-14.14	QP	P

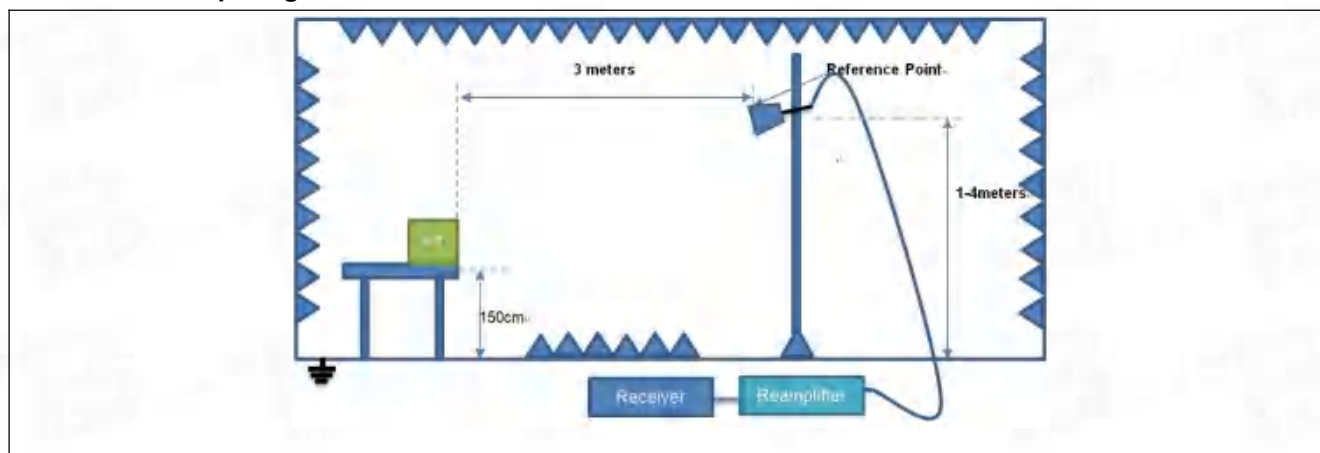
6.8 Emissions in frequency bands (above 1GHz)

Test Requirement:	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)).`		
Test Method:	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Test 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
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Procedure:	ANSI C63.10-2013 section 6.6.4		

6.8.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.7 °C
Humidity:	52 %
Atmospheric Pressure:	1010 mbar

6.8.2 Test Setup Diagram:



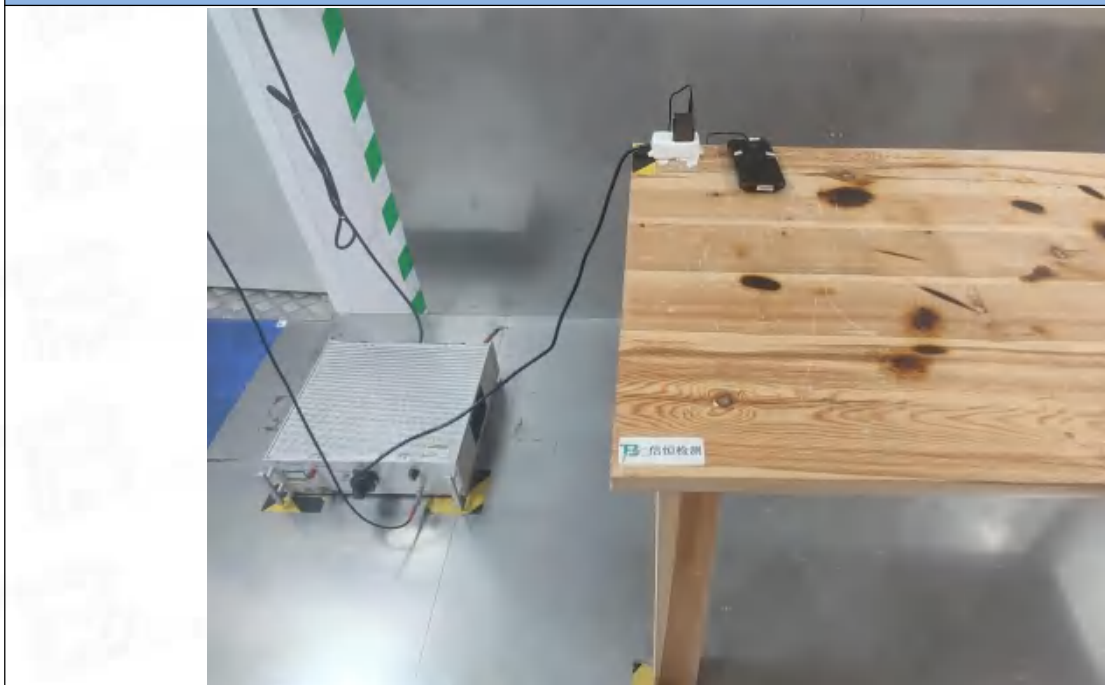
6.8.3 Test Data:

Note: All the mode have been tested, and only the worst case of 802.11b mode are in the report

Frequency	Read Level	Preampl Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		
Low Channel (2402 MHz)(GFSK)--Above 1G							
4824	63.11	-26.85	36.26	74.00	-37.74	Pk	Vertical
4824	42.15	-26.85	15.30	54.00	-38.70	AV	Vertical
7236	61.84	-25.12	36.72	74.00	-37.28	Pk	Vertical
7236	42.39	-25.12	17.27	54.00	-36.73	AV	Vertical
4824	63.17	-26.85	36.32	74.00	-37.68	Pk	Horizontal
4824	42.17	-26.85	15.32	54.00	-38.68	AV	Horizontal
7236	62.37	-25.12	37.25	74.00	-36.75	Pk	Horizontal
7236	42.31	-25.12	17.19	54.00	-36.81	AV	Horizontal
Mid Channel (2440 MHz)(GFSK)--Above 1G							
4874	62.79	-27.7	35.09	74.00	-38.91	Pk	Vertical
4874	44.02	-27.7	16.32	54.00	-37.68	AV	Vertical
7311	66.02	-24.83	41.19	74.00	-32.81	Pk	Vertical
7311	41.82	-24.83	16.99	54.00	-37.01	AV	Vertical
4874	62.85	-27.7	35.15	74.00	-38.85	Pk	Horizontal
4874	40.34	-27.7	12.64	54.00	-41.36	AV	Horizontal
7311	60.62	-24.83	35.79	74.00	-38.21	Pk	Horizontal
7311	43.67	-24.83	18.84	54.00	-35.16	AV	Horizontal
High Channel (2480 MHz)(GFSK)-- Above 1G							
4924	63.95	-27.49	36.46	74.00	-37.54	Pk	Vertical
4924	41.36	-27.49	13.87	54.00	-40.13	AV	Vertical
7386	64.26	-24.8	39.46	74.00	-34.54	Pk	Vertical
7386	49.73	-24.8	24.93	54.00	-29.07	AV	Vertical
4924	64.14	-27.49	36.65	74.00	-37.35	Pk	Horizontal
4924	45.50	-27.49	18.01	54.00	-35.99	AV	Horizontal
7386	64.90	-24.8	40.10	74.00	-33.90	Pk	Horizontal
7386	44.10	-24.8	19.30	54.00	-34.70	AV	Horizontal

7 Test Setup Photos

Conducted Emission at AC power line



Band edge emissions (Radiated)
Emissions in frequency bands (above 1GHz)



Emissions in frequency bands (below 1GHz)

Appendix

1. Duty Cycle

1.1 Test Result

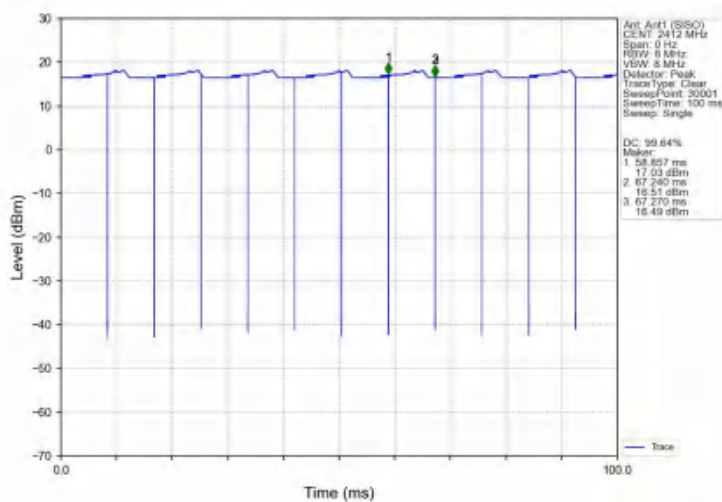
1.1.1 Ant1

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	8.383	8.413	99.64	0.02	0.04
		2437	8.384	8.414	99.64	0.02	0.04
		2462	8.383	8.413	99.64	0.02	0.04
802.11g	SISO	2412	1.392	1.427	97.55	0.11	0.03
		2437	1.392	1.428	97.48	0.11	0.03
		2462	1.392	1.428	97.48	0.11	0.03
802.11n (HT20)	SISO	2412	1.300	1.336	97.31	0.12	0.04
		2437	1.300	1.335	97.38	0.12	0.03
		2462	1.300	1.336	97.31	0.12	0.07
802.11n (HT40)	SISO	2422	11.673	13.520	86.34	0.64	0.00
		2437	0.649	0.728	89.15	0.50	5.91
		2452	11.840	15.020	78.83	1.03	0.00

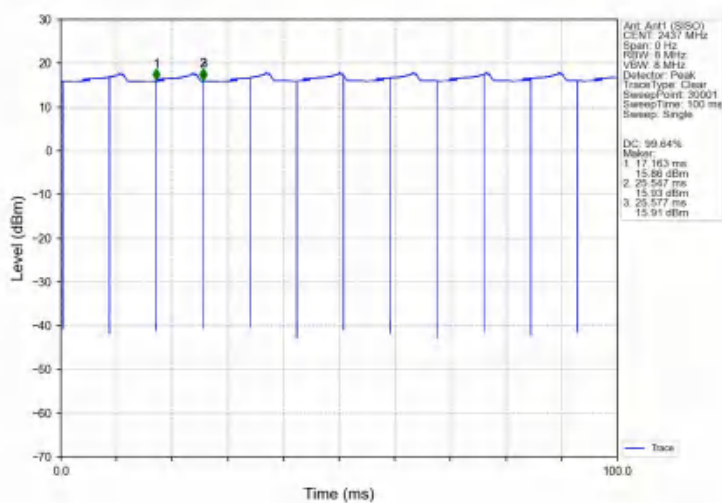
1.2 Test Graph

1.2.1 Ant1

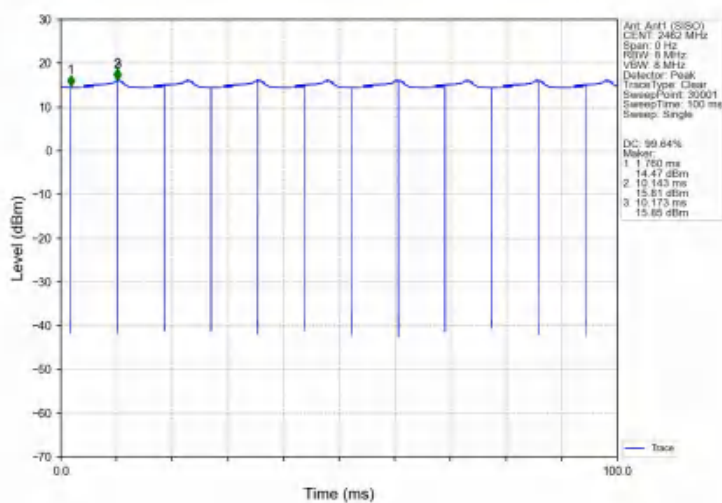
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



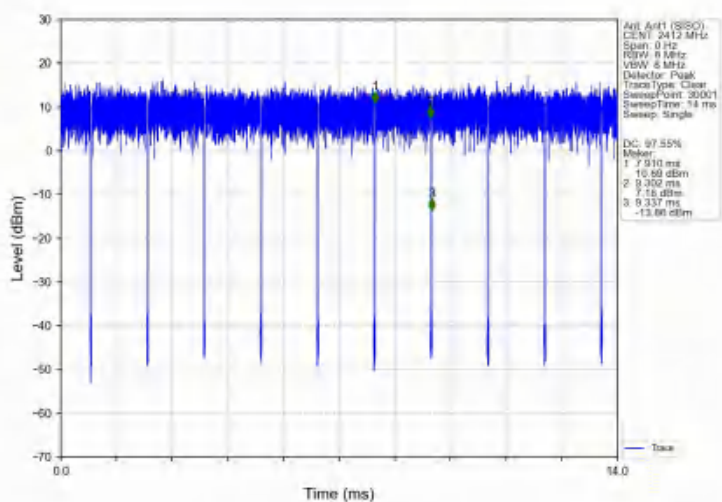
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



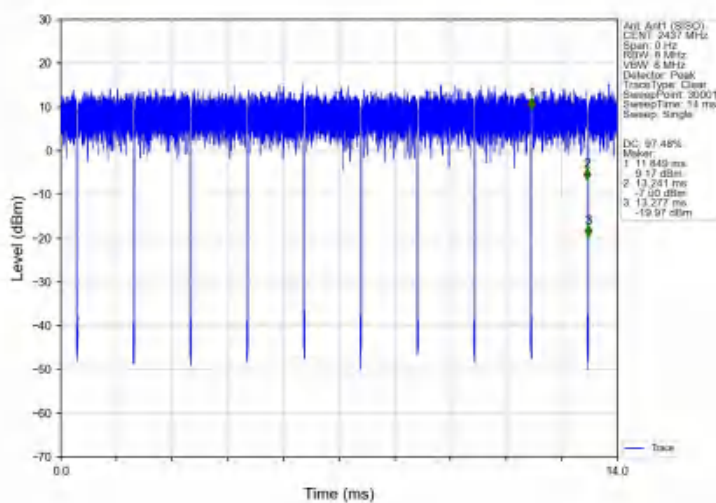
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



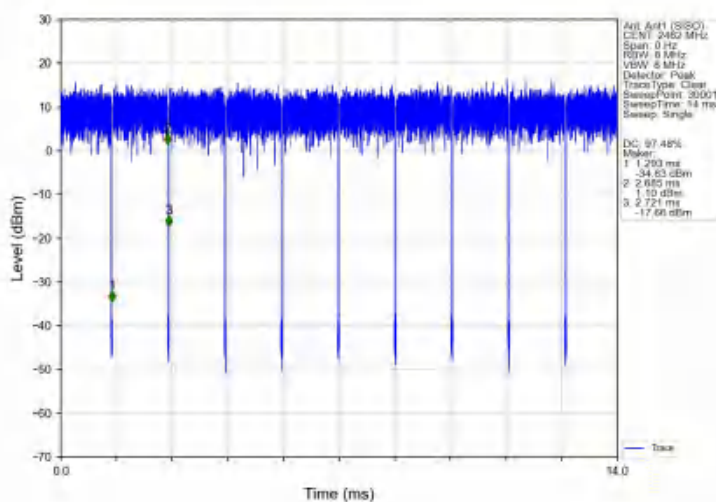
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



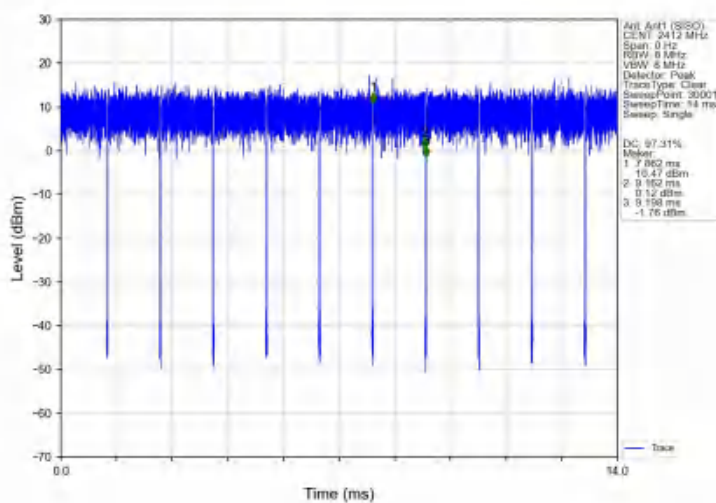
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



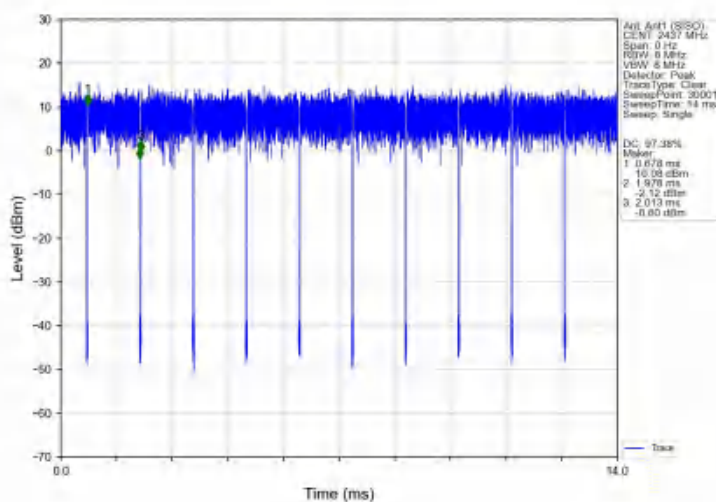
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



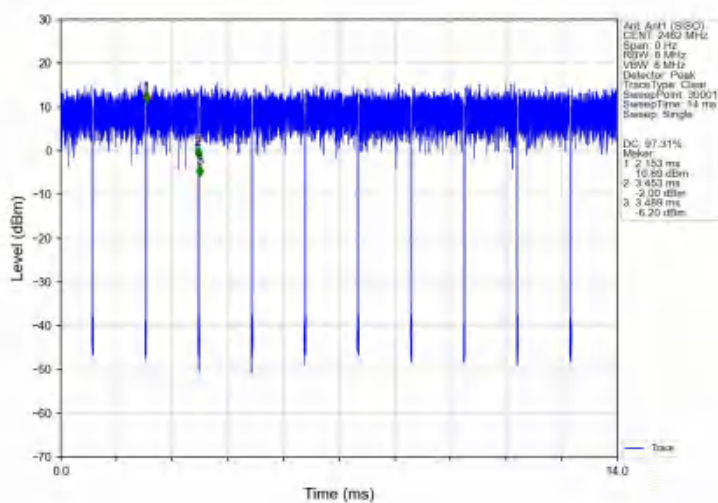
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



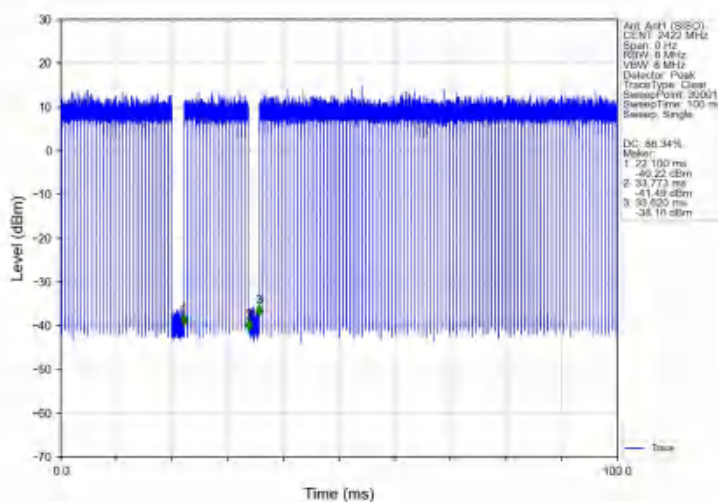
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



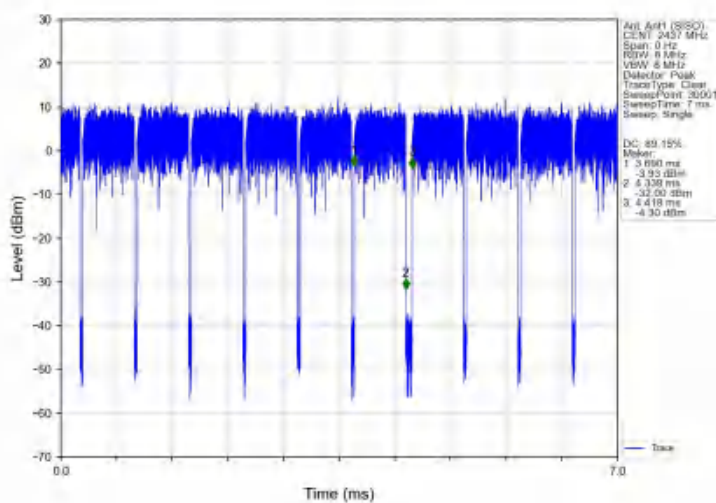
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



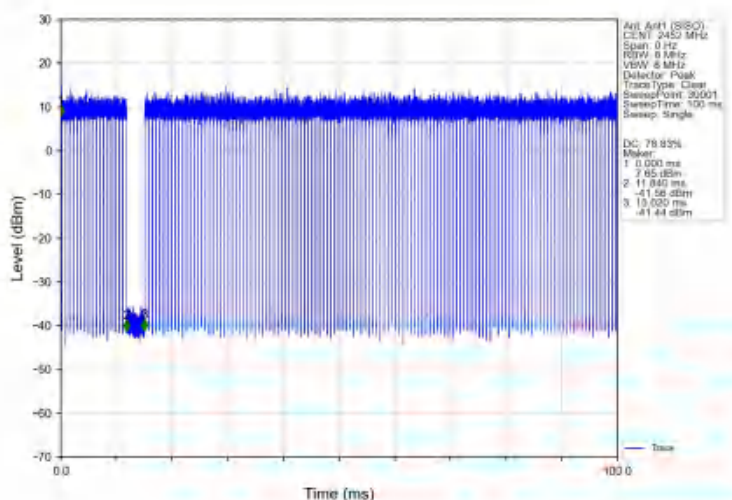
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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	12.759	/	Pass
		2437	1	12.945	/	Pass
		2462	1	12.510	/	Pass
802.11g	SISO	2412	1	17.466	/	Pass
		2437	1	17.686	/	Pass
		2462	1	17.325	/	Pass
802.11n (HT20)	SISO	2412	1	18.234	/	Pass
		2437	1	18.512	/	Pass
		2462	1	18.214	/	Pass
802.11n (HT40)	SISO	2422	1	36.741	/	Pass
		2437	1	36.751	/	Pass
		2452	1	35.833	/	Pass

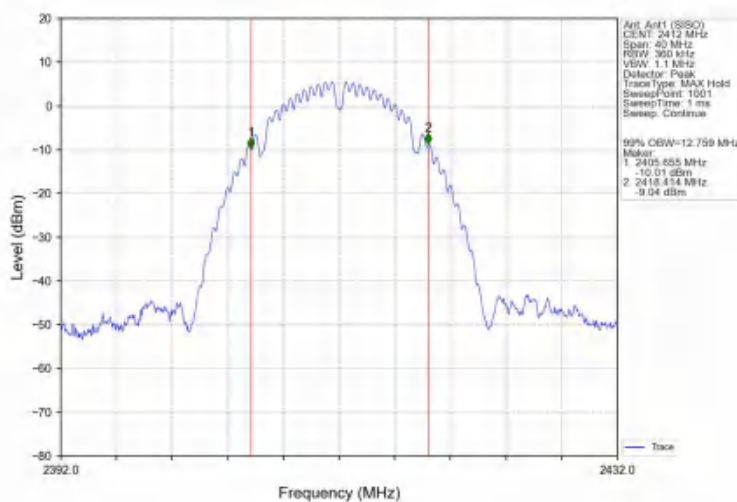
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.100	≥ 0.5	Pass
		2437	1	8.534	≥ 0.5	Pass
		2462	1	7.617	≥ 0.5	Pass
802.11g	SISO	2412	1	15.362	≥ 0.5	Pass
		2437	1	15.678	≥ 0.5	Pass
		2462	1	15.166	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.318	≥ 0.5	Pass
		2437	1	15.180	≥ 0.5	Pass
		2462	1	15.176	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.179	≥ 0.5	Pass
		2437	1	35.521	≥ 0.5	Pass
		2452	1	30.088	≥ 0.5	Pass

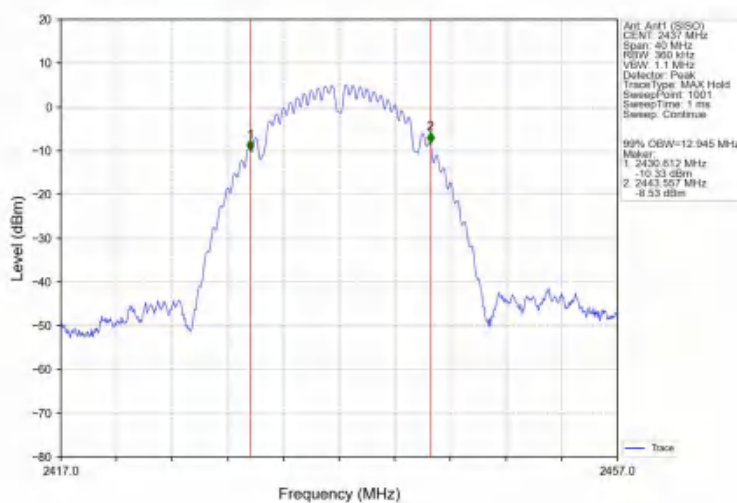
2.2 Test Graph

2.2.1 OBW

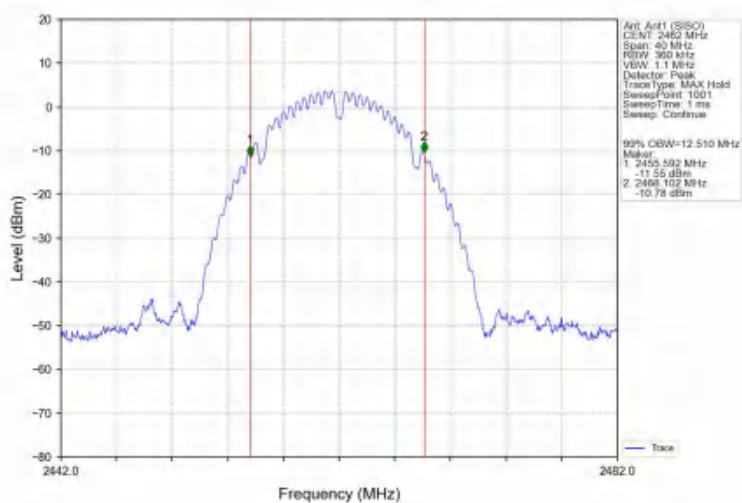
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



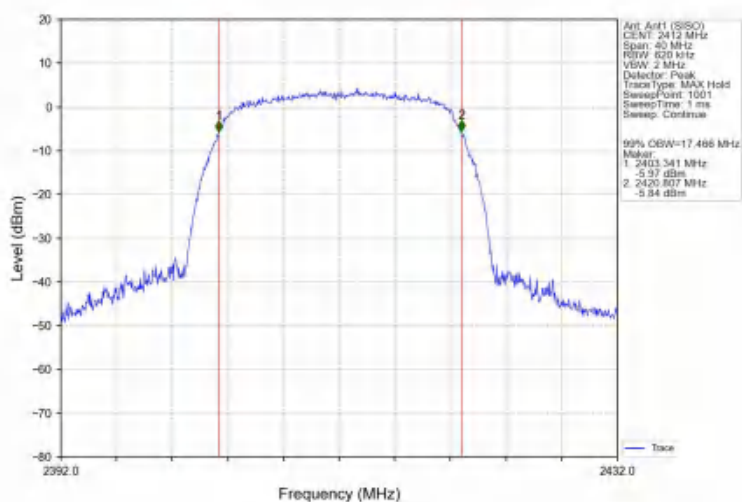
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



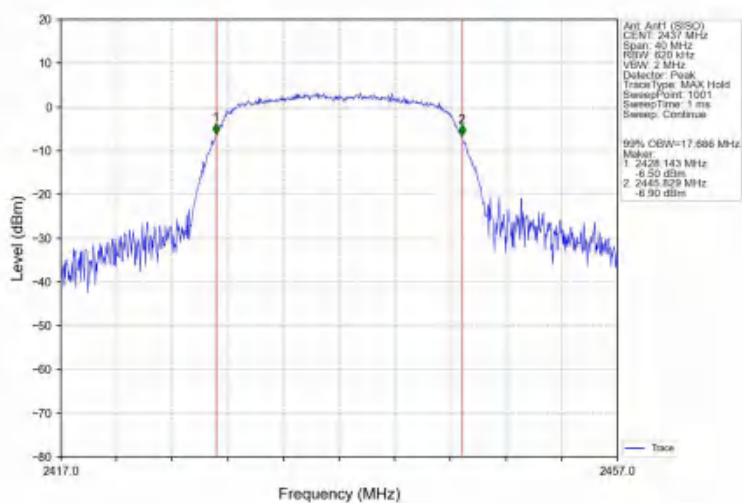
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



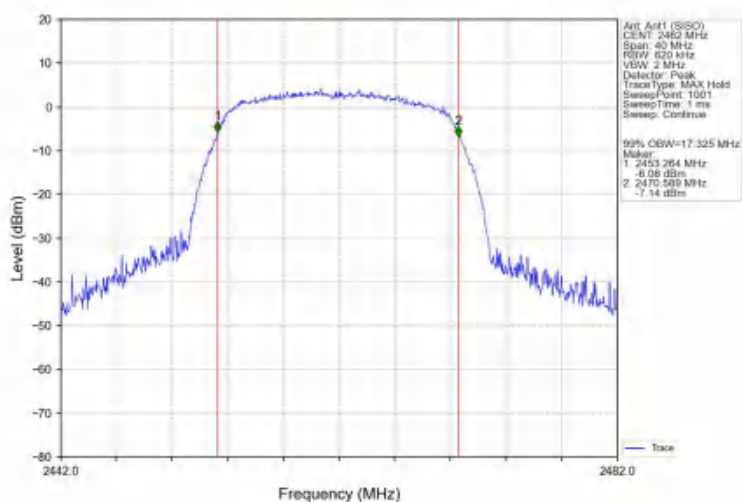
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



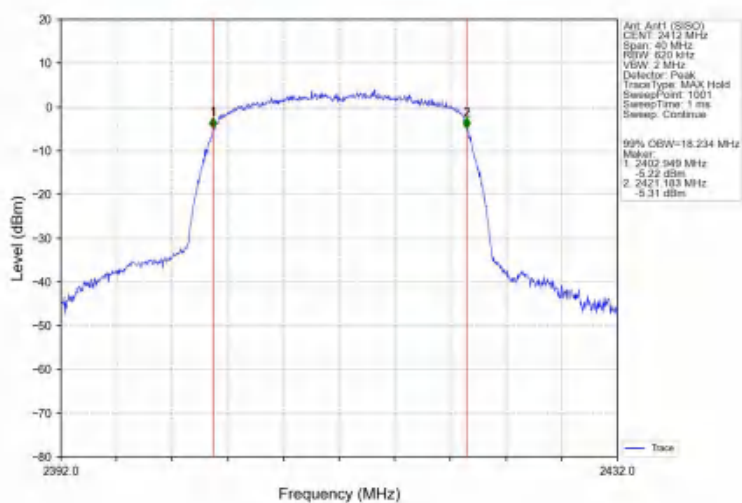
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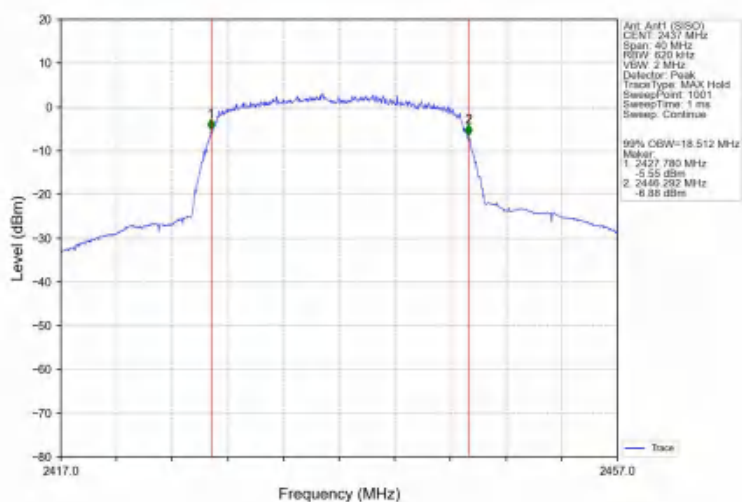
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



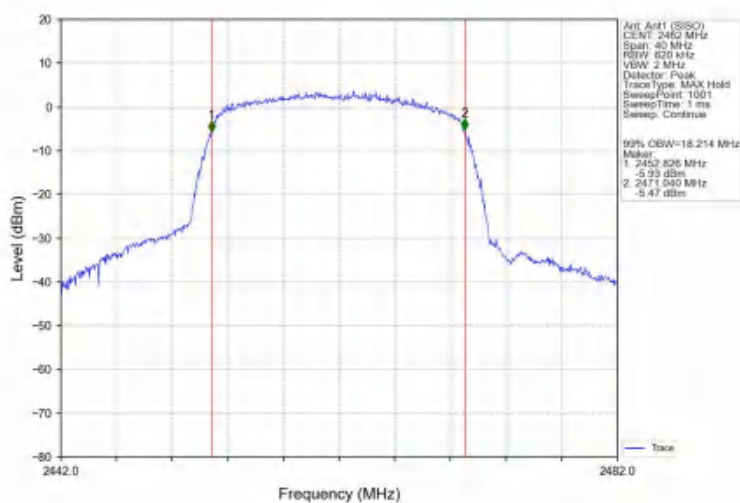
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



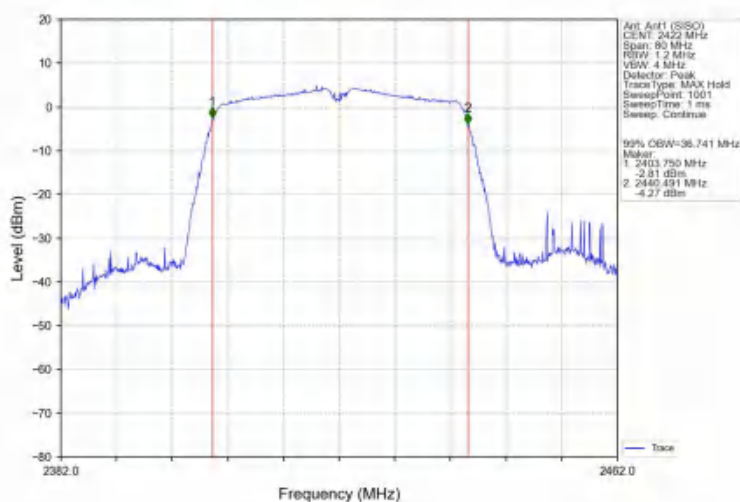
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



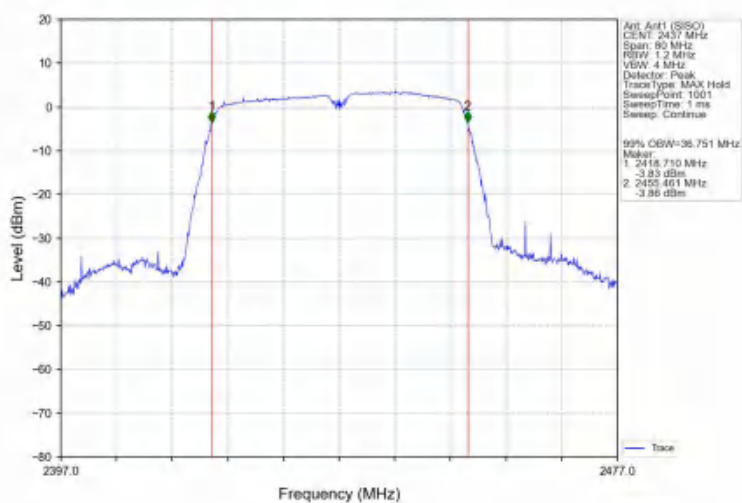
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



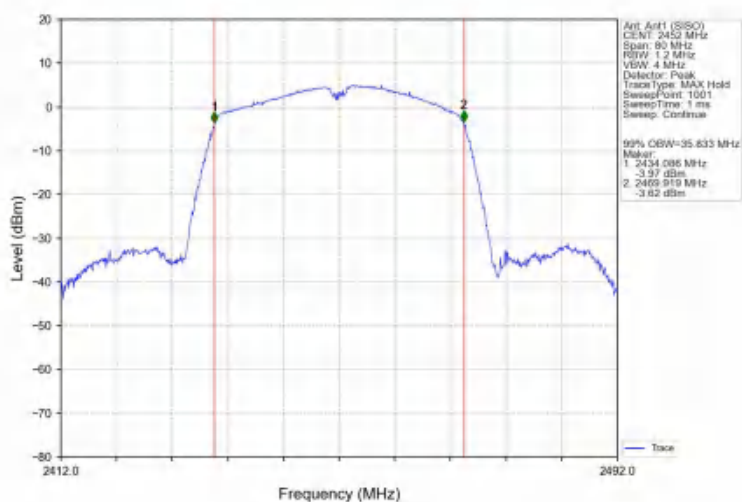
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

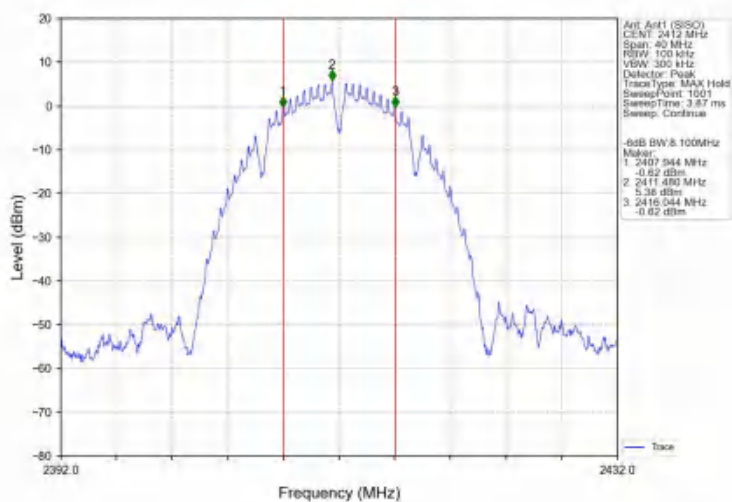


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

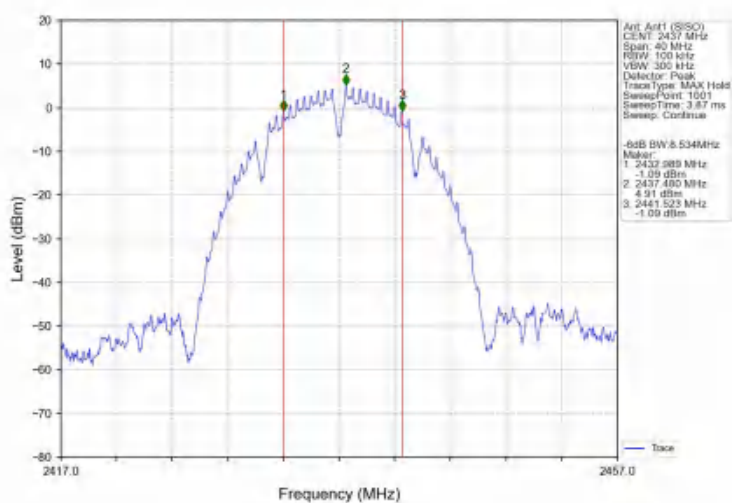


2.2.2 6dB BW

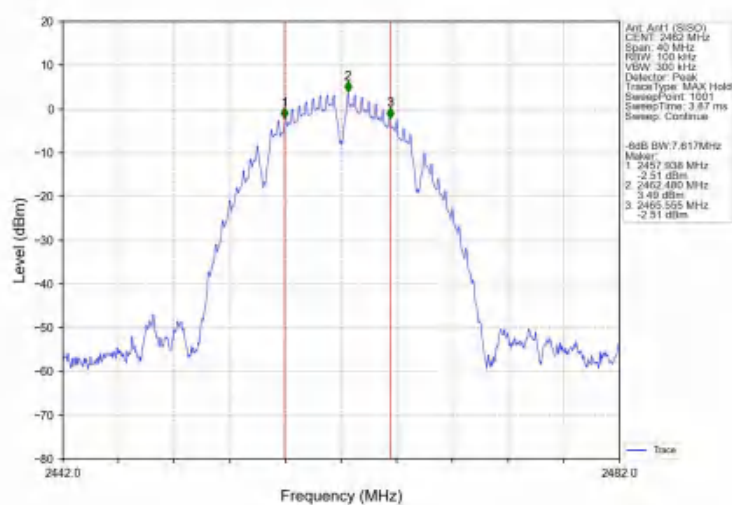
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



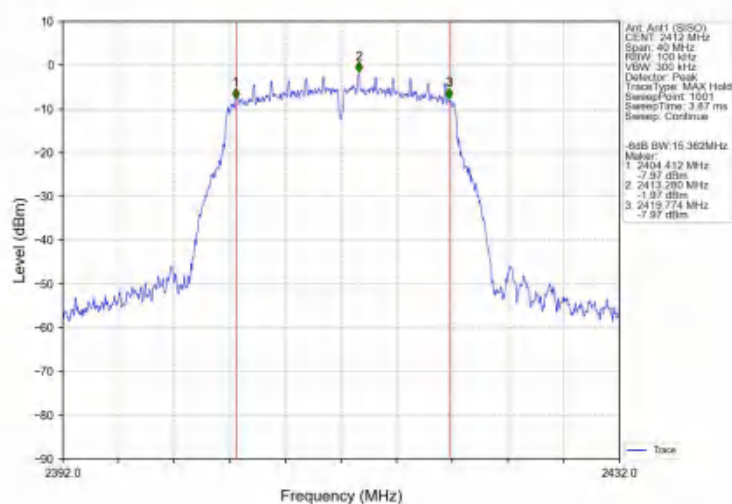
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



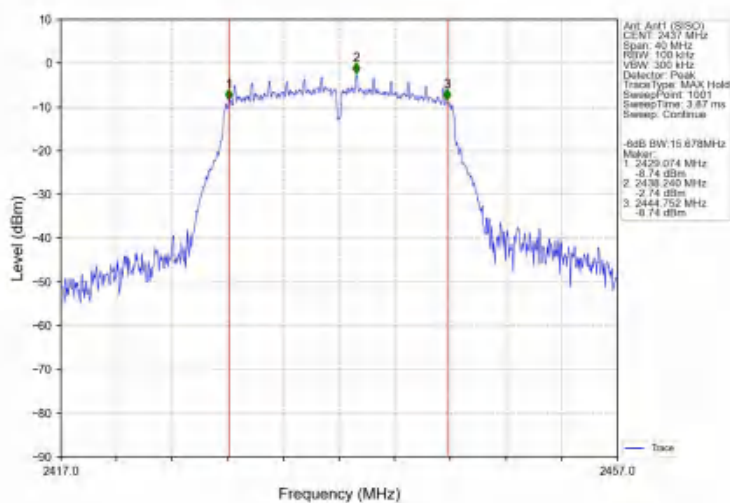
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



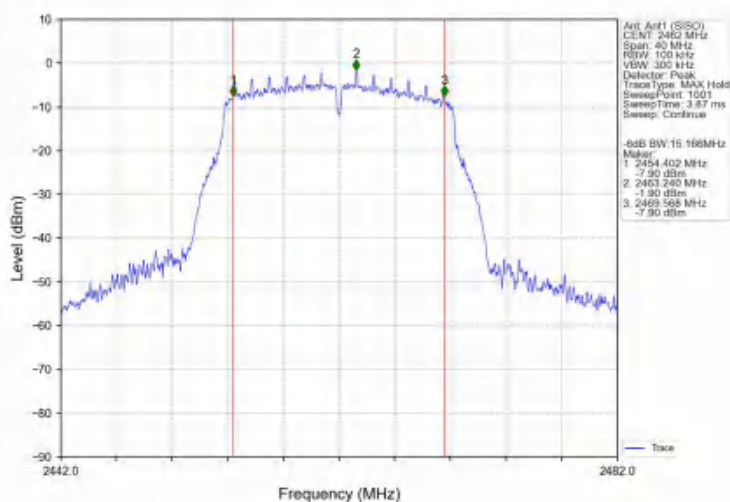
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



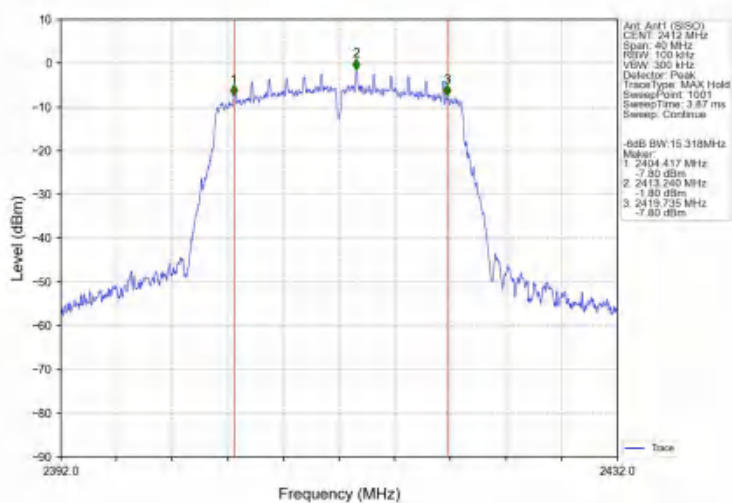
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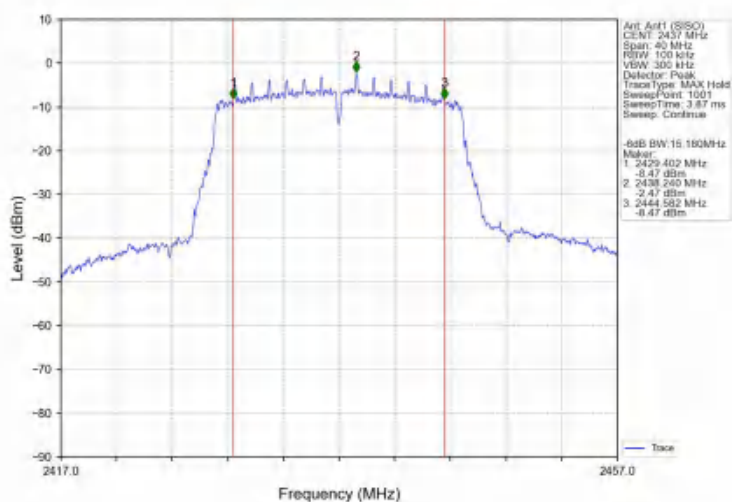
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



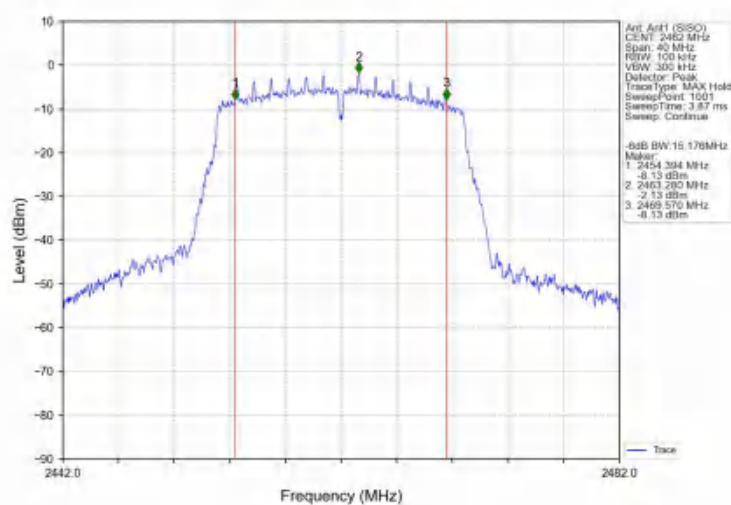
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



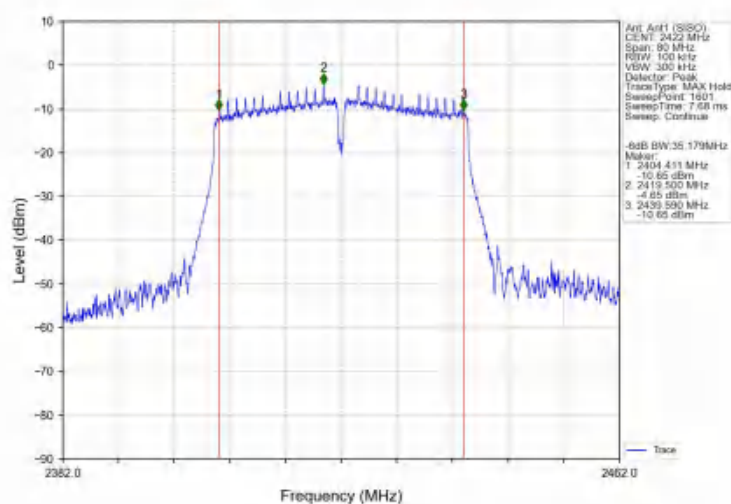
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



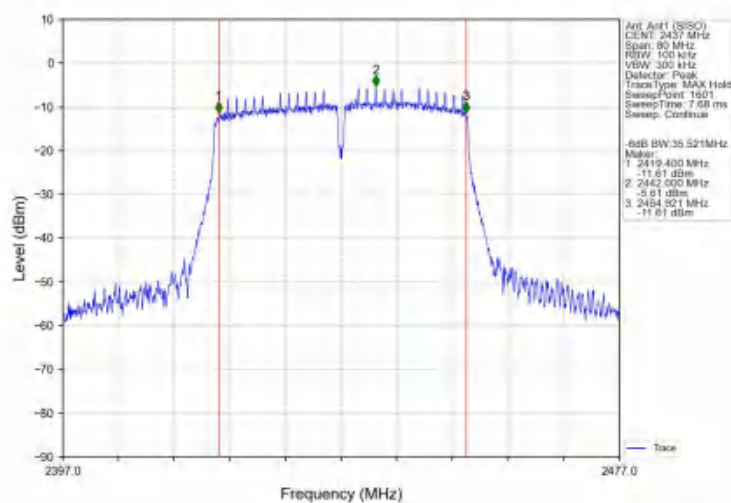
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



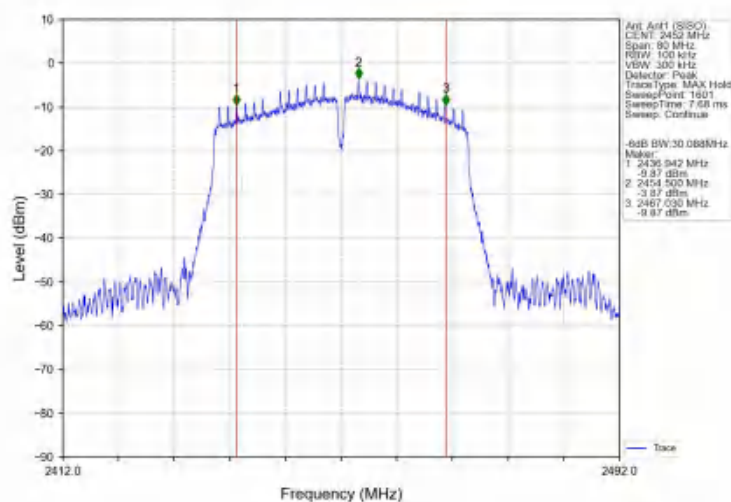
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	15.50	<=30	Pass
		2437	15.15	<=30	Pass
		2462	16.25	<=30	Pass
802.11g	SISO	2412	15.90	<=30	Pass
		2437	15.32	<=30	Pass
		2462	15.76	<=30	Pass
802.11n (HT20)	SISO	2412	15.65	<=30	Pass
		2437	15.15	<=30	Pass
		2462	15.64	<=30	Pass
802.11n (HT40)	SISO	2422	16.03	<=30	Pass
		2437	15.86	<=30	Pass
		2452	15.84	<=30	Pass

Note1: Antenna Gain: Ant1: 0.22dBi;

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

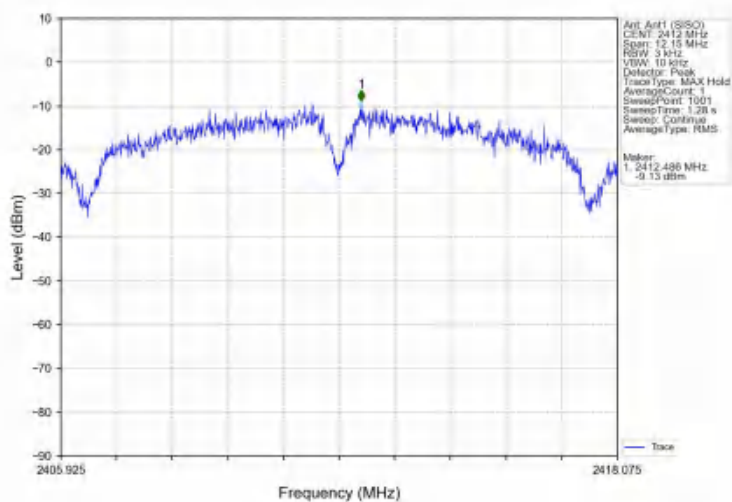
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-9.13	<=8	Pass
		2437	-9.96	<=8	Pass
		2462	-11.51	<=8	Pass
802.11g	SISO	2412	-15.66	<=8	Pass
		2437	-17.21	<=8	Pass
		2462	-15.72	<=8	Pass
802.11n (HT20)	SISO	2412	-17.11	<=8	Pass
		2437	-17.11	<=8	Pass
		2462	-16.40	<=8	Pass
802.11n (HT40)	SISO	2422	-19.01	<=8	Pass
		2437	-20.48	<=8	Pass
		2452	-18.97	<=8	Pass

Note1: Antenna Gain: Ant1: 0.22dBi;

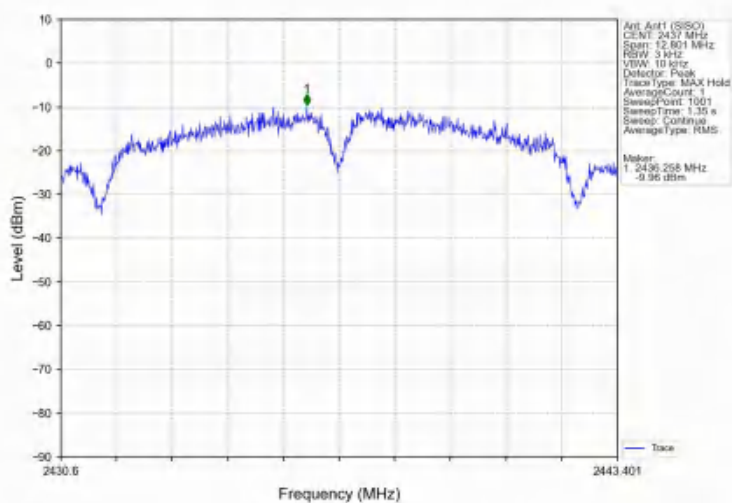
4.2 Test Graph

4.2.1 PSD

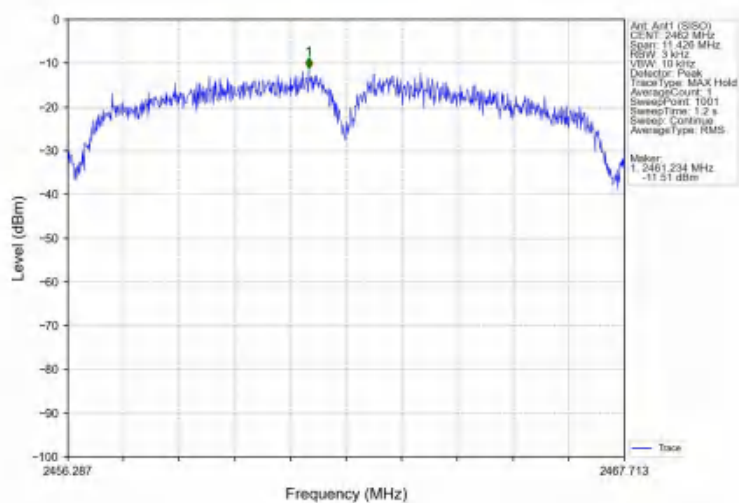
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



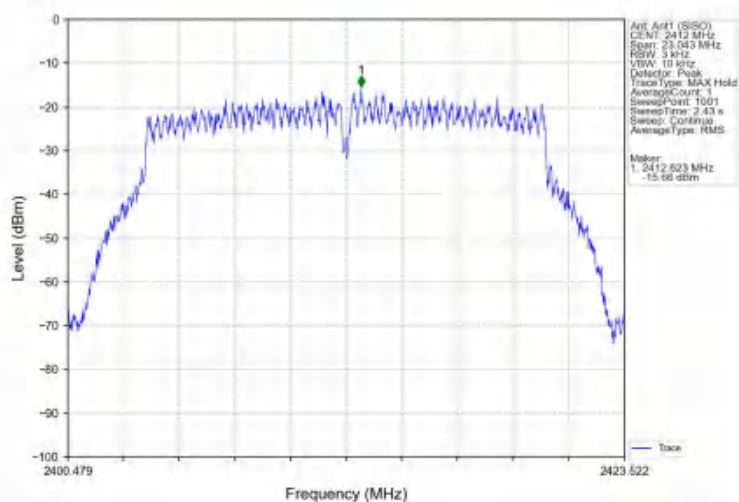
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



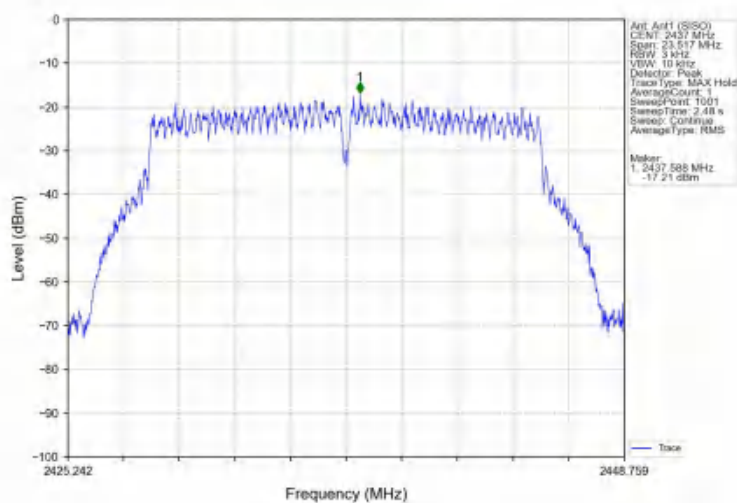
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



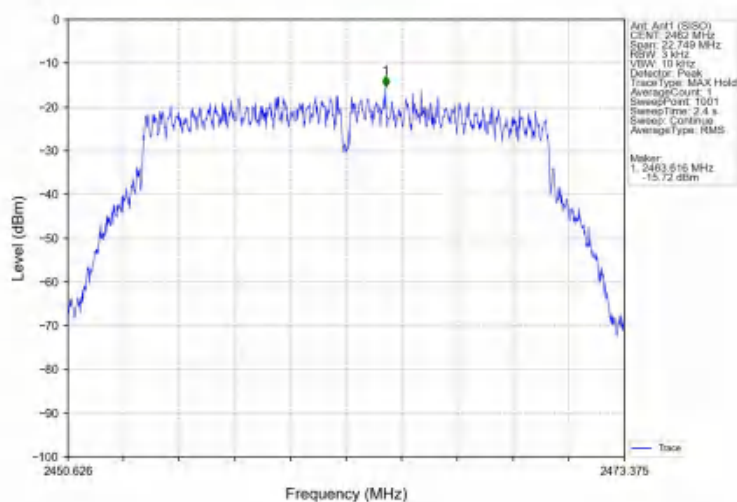
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



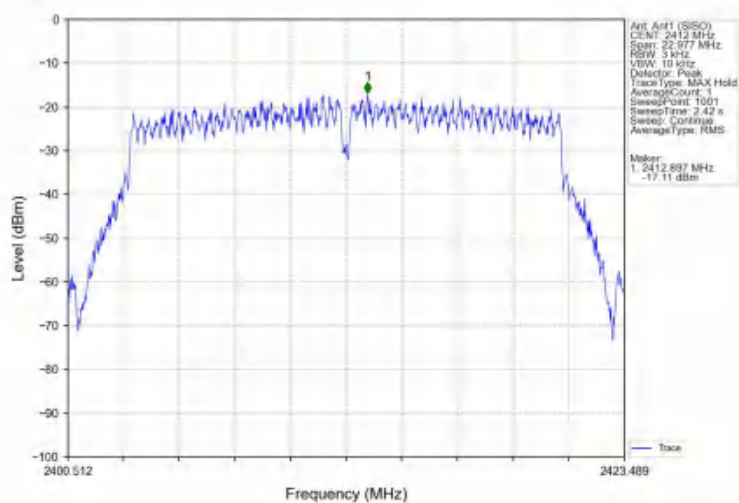
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



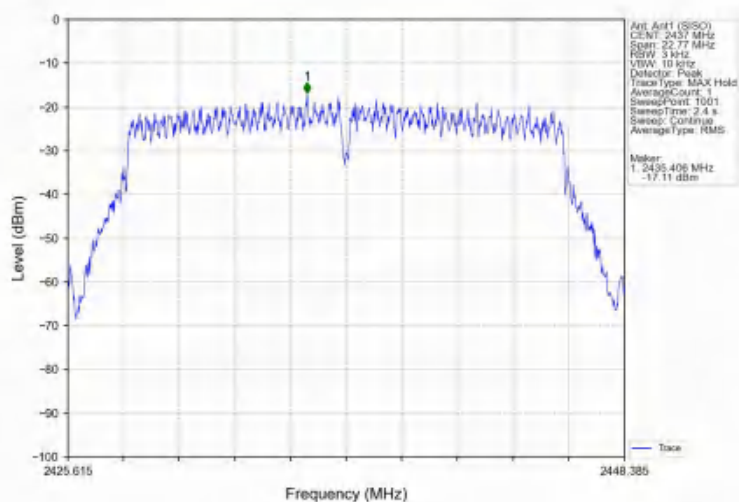
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



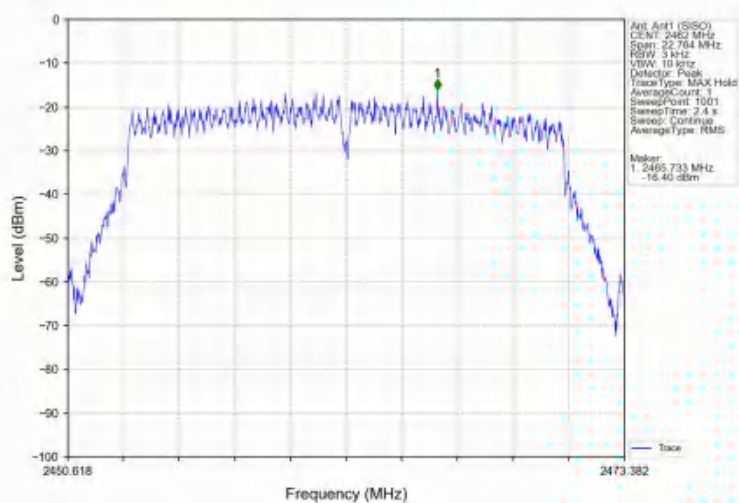
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



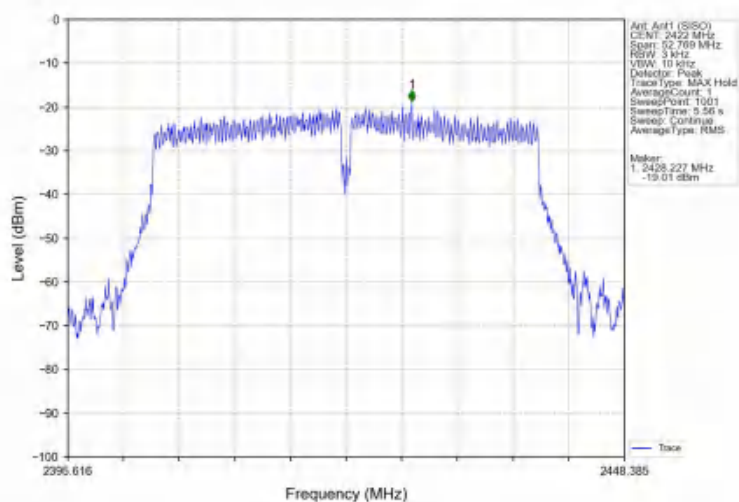
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



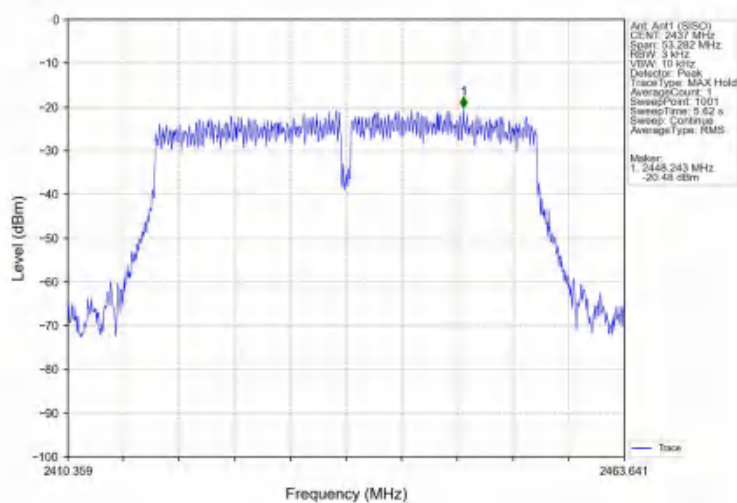
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



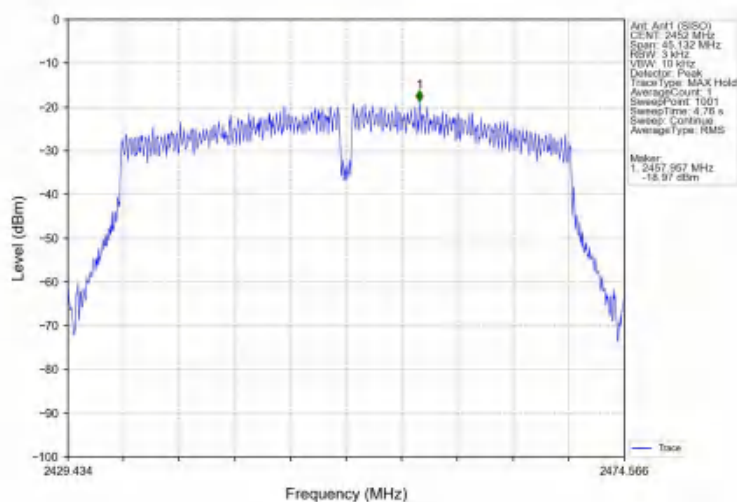
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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	5.33
		2437	1	4.72
		2462	1	3.33
802.11g	SISO	2412	1	-1.83
		2437	1	-2.86
		2462	1	-1.96
802.11n (HT20)	SISO	2412	1	-1.71
		2437	1	-3.06
		2462	1	-1.96
802.11n (HT40)	SISO	2422	1	-4.92
		2437	1	-5.50
		2452	1	-3.87

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 CSE

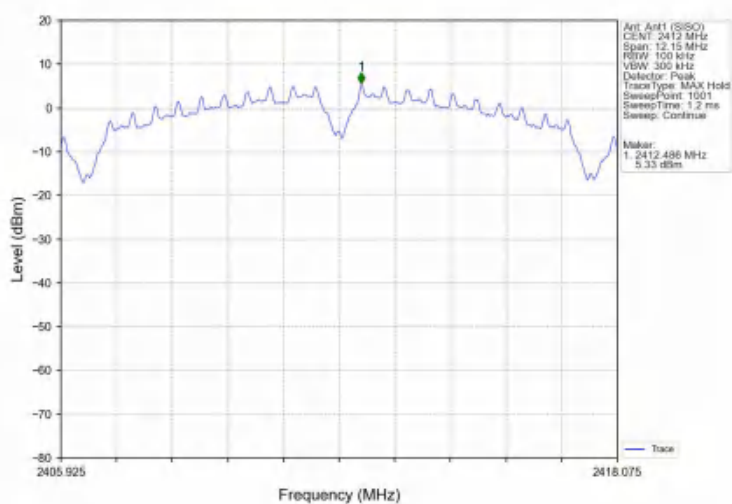
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.33	-24.67	Pass
		2437	1	5.33	-24.67	Pass
		2462	1	5.33	-24.67	Pass
802.11g	SISO	2412	1	-1.83	-31.83	Pass
		2437	1	-1.83	-31.83	Pass
		2462	1	-1.83	-31.83	Pass
802.11n (HT20)	SISO	2412	1	-1.71	-31.71	Pass
		2437	1	-1.71	-31.71	Pass
		2462	1	-1.71	-31.71	Pass
802.11n (HT40)	SISO	2422	1	-3.87	-33.87	Pass
		2437	1	-3.87	-33.87	Pass
		2452	1	-3.87	-33.87	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

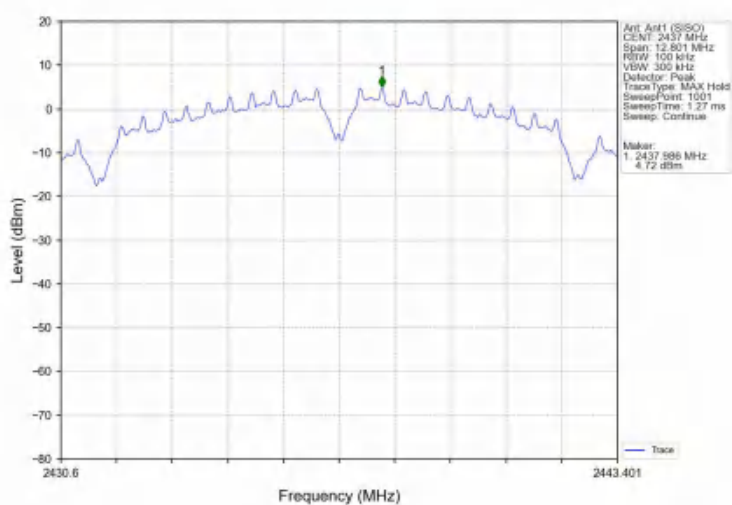
5.2 Test Graph

5.2.1 Ref

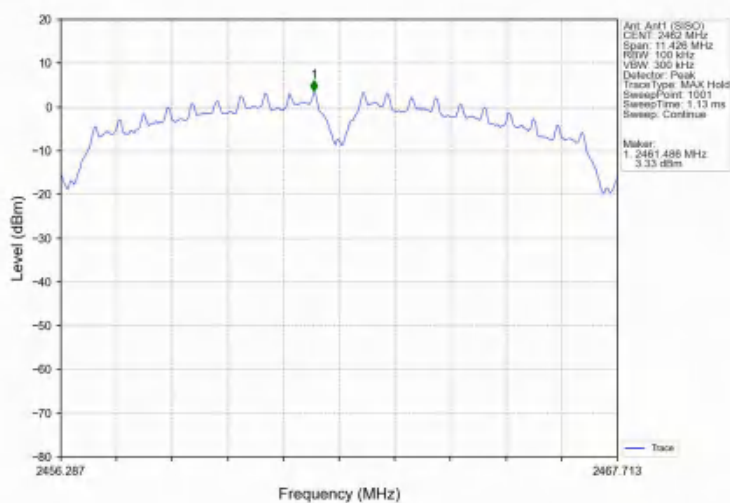
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



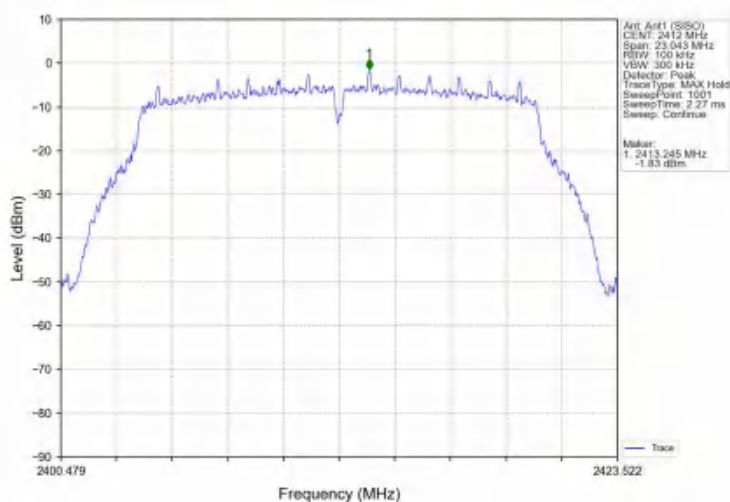
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



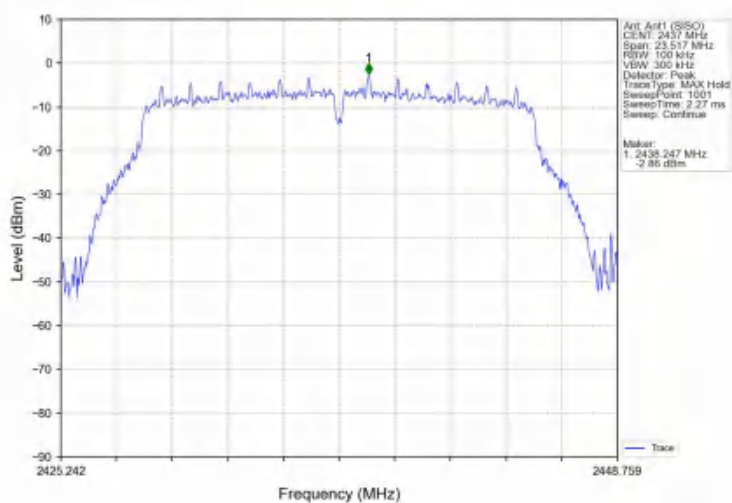
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



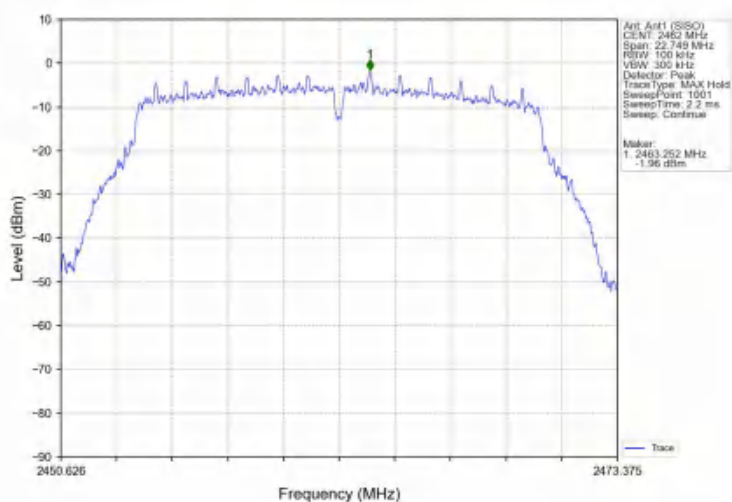
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



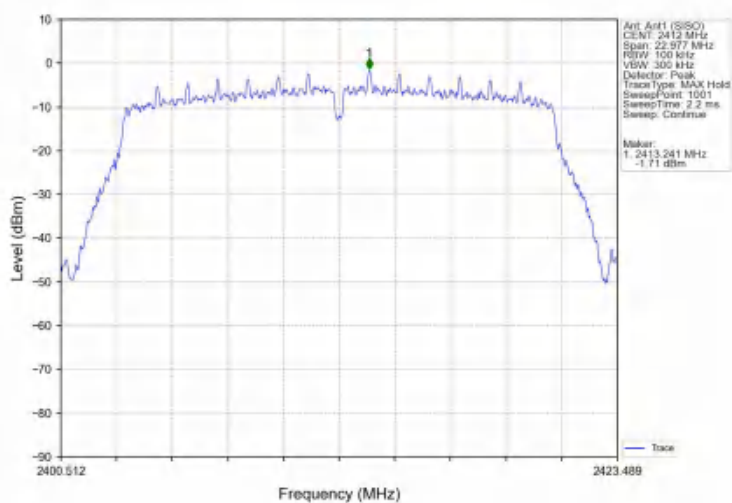
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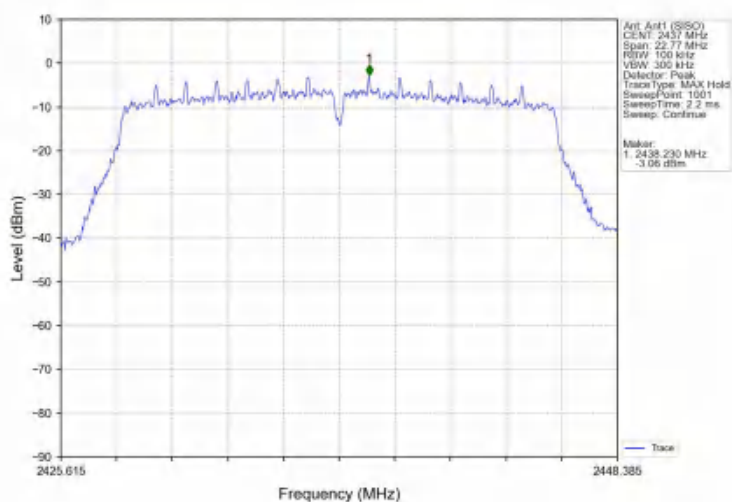
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



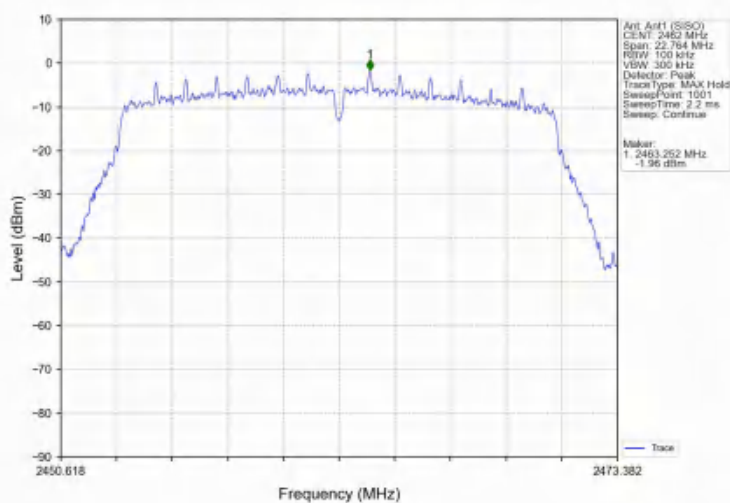
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



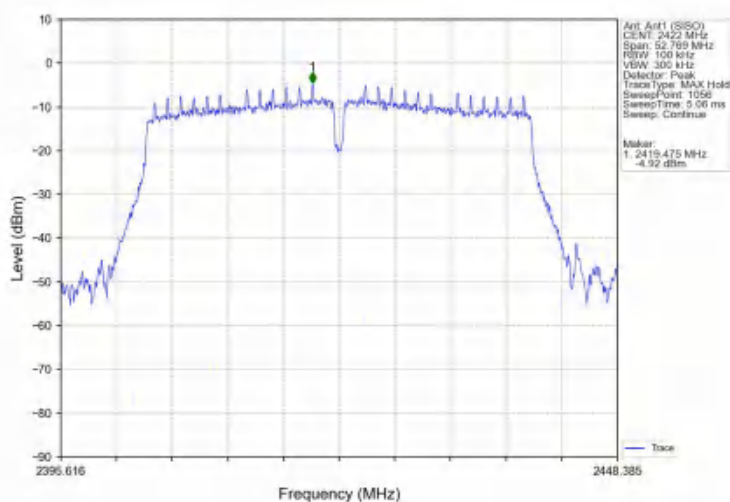
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



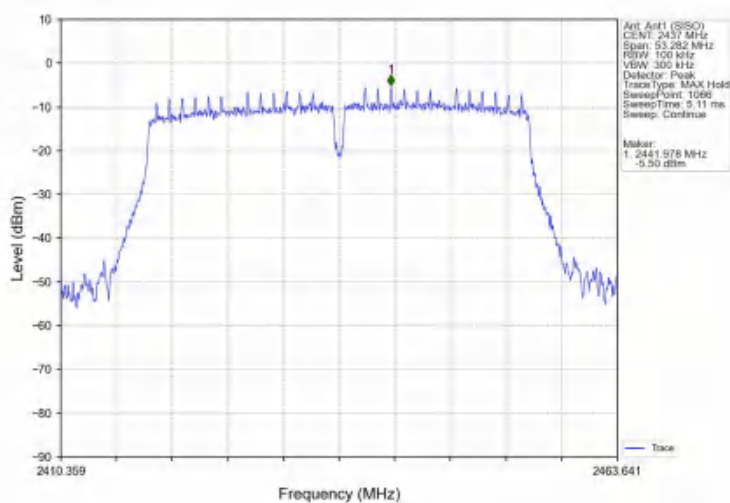
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



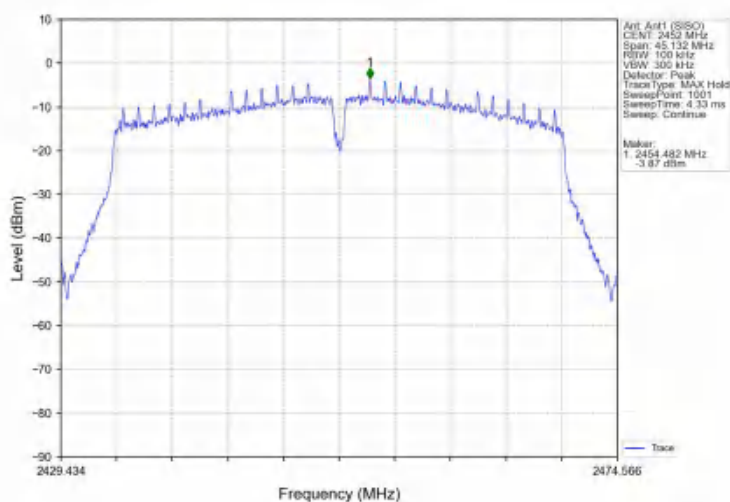
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

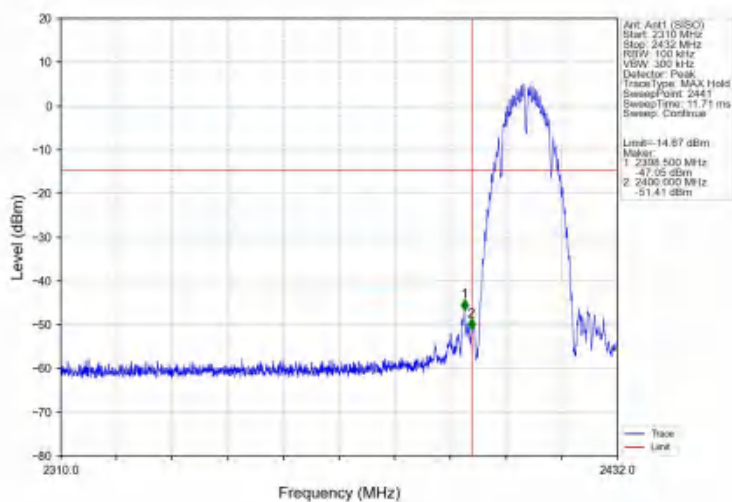


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

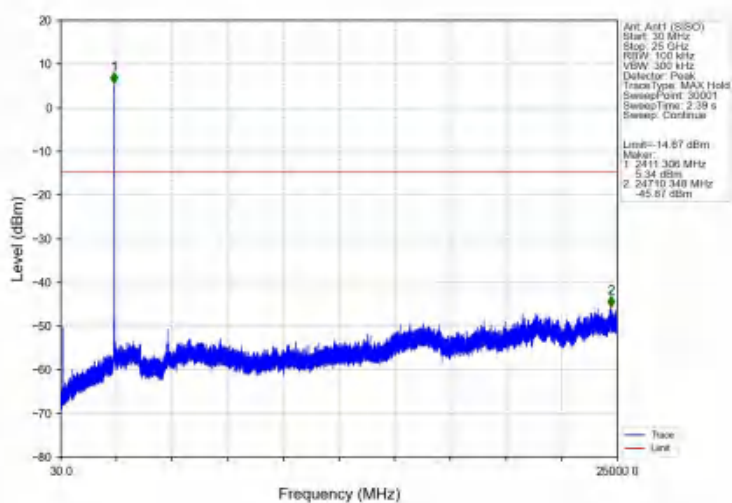


5.2.2 CSE

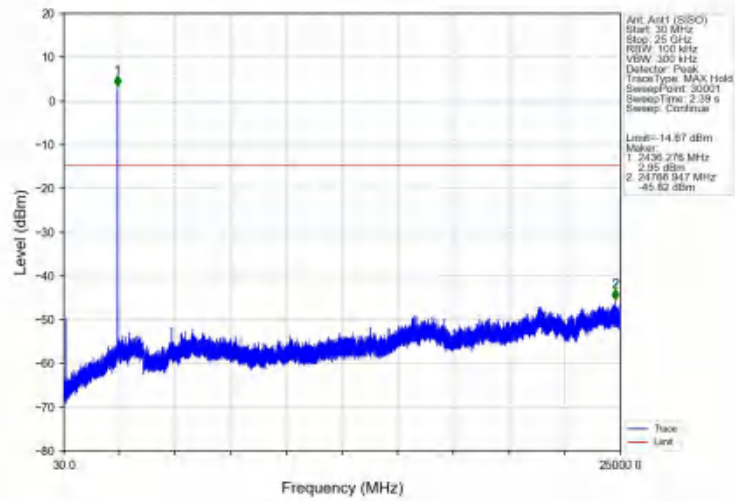
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



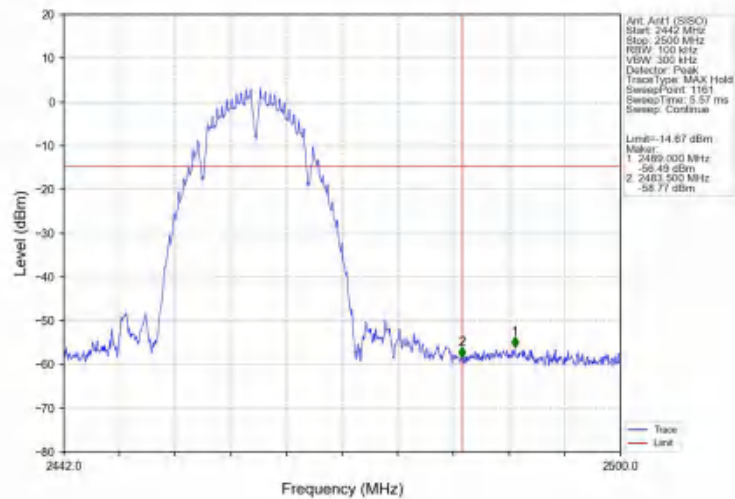
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



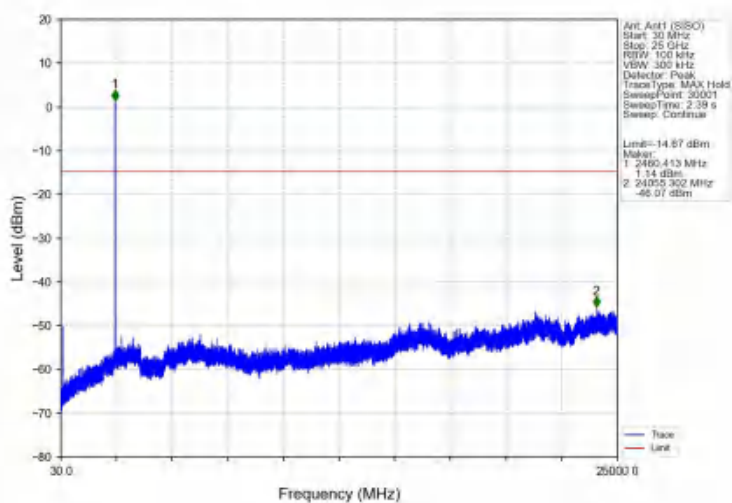
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



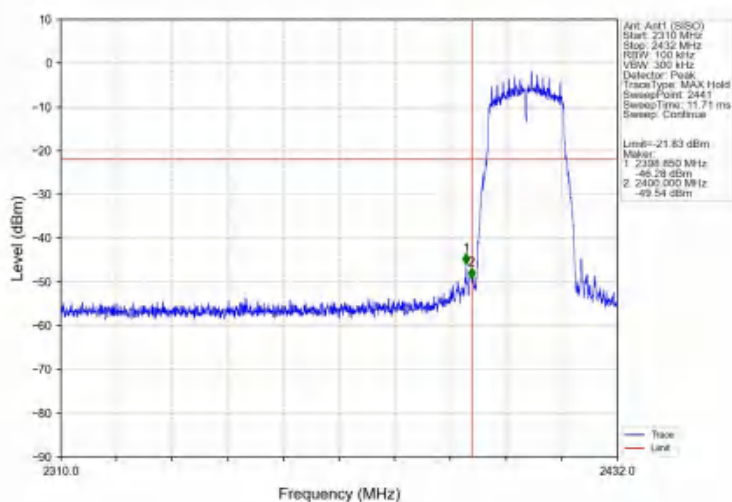
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



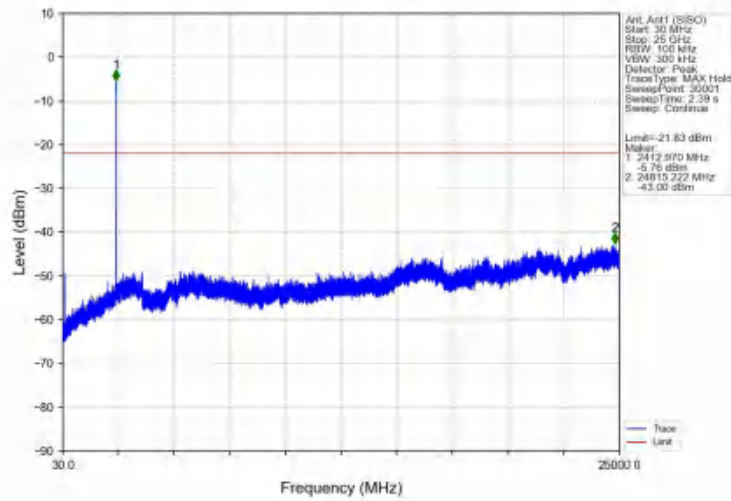
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



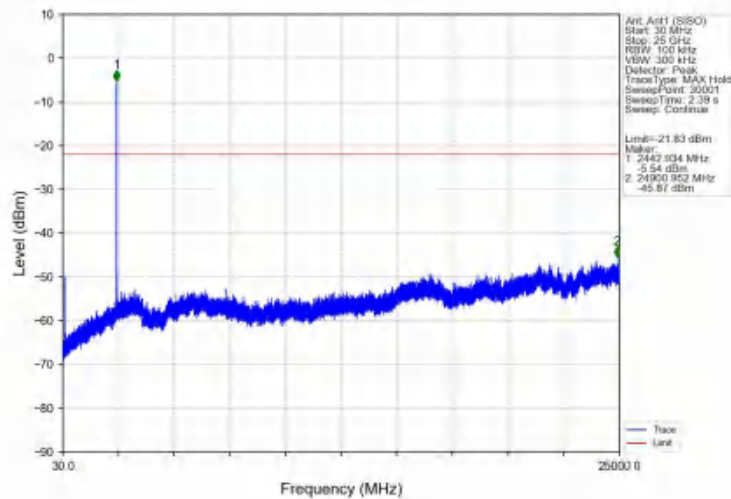
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



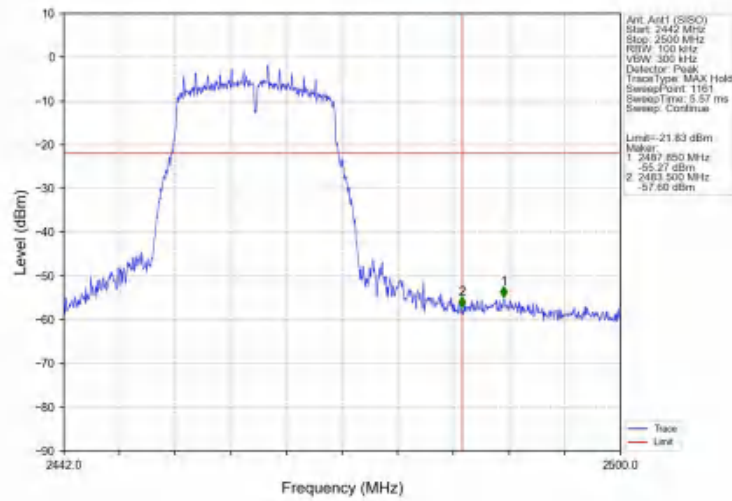
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



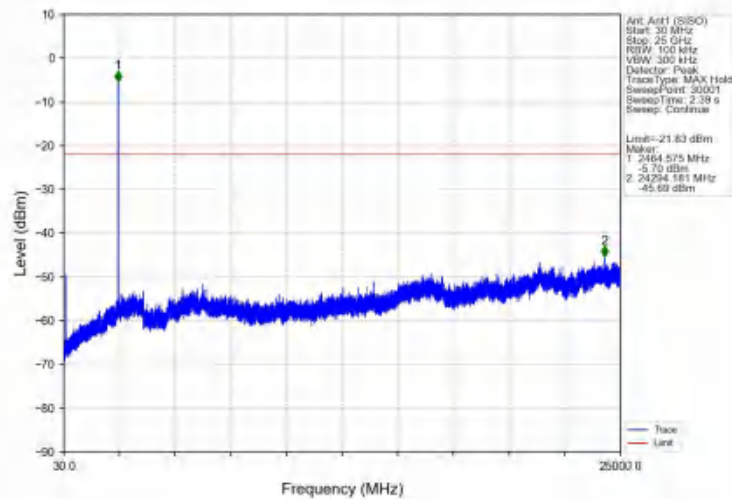
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



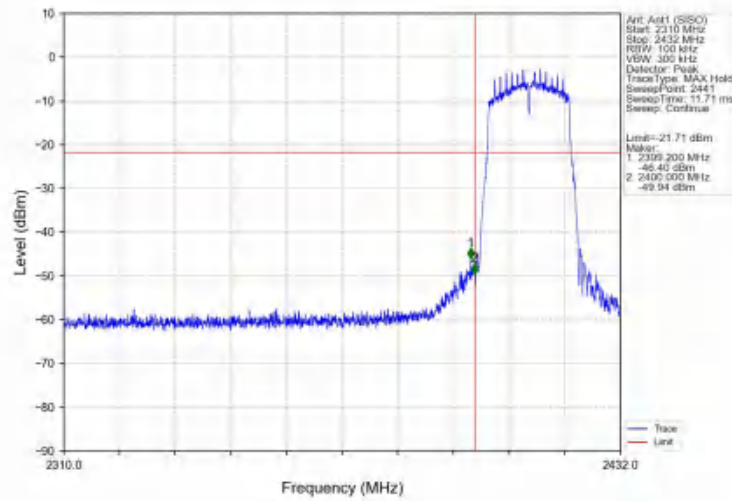
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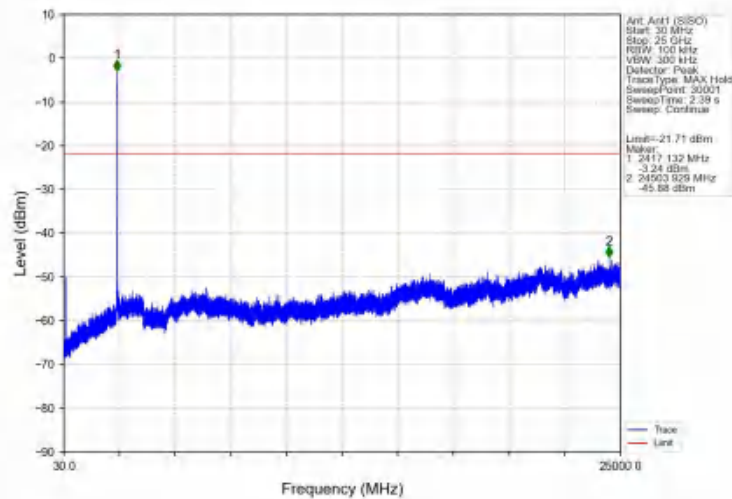
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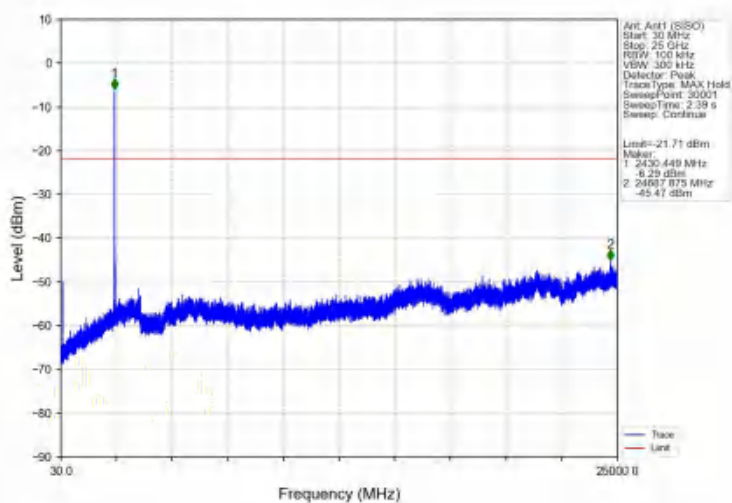
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



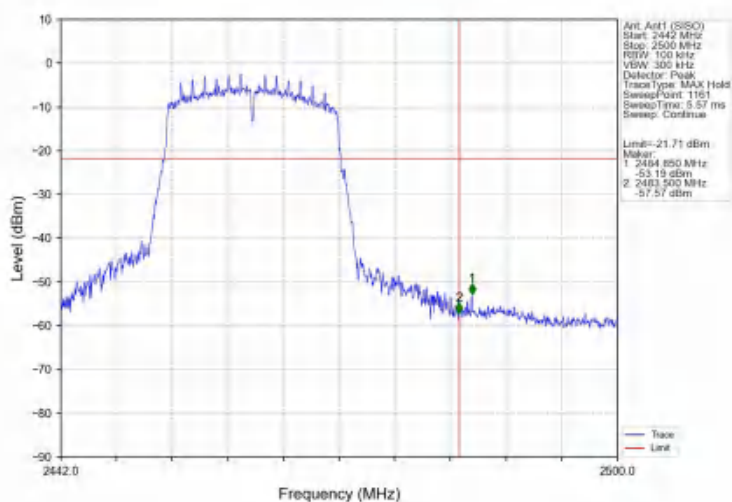
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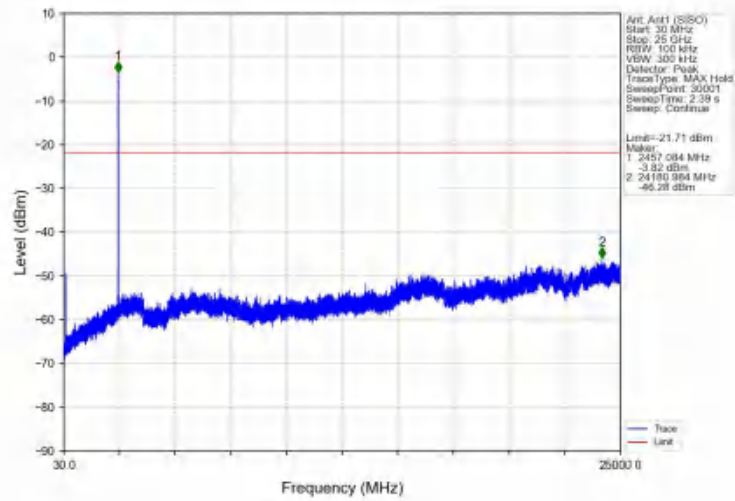
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



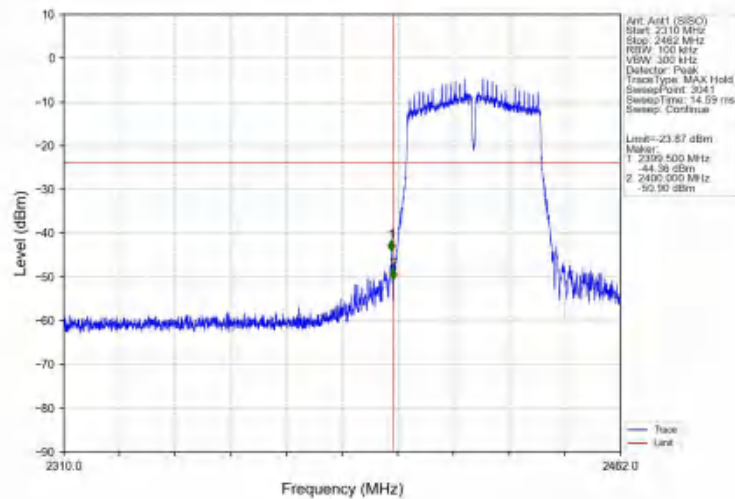
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



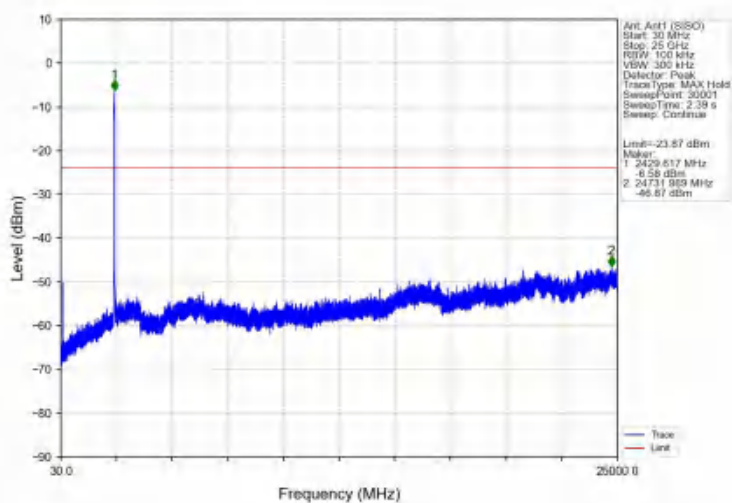
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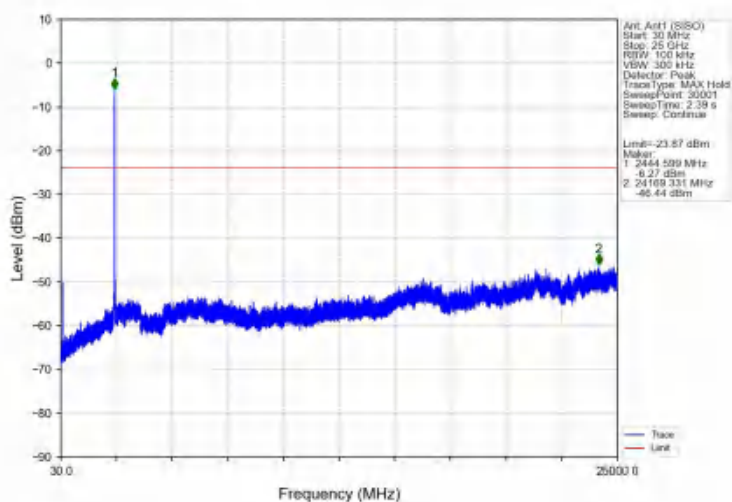
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



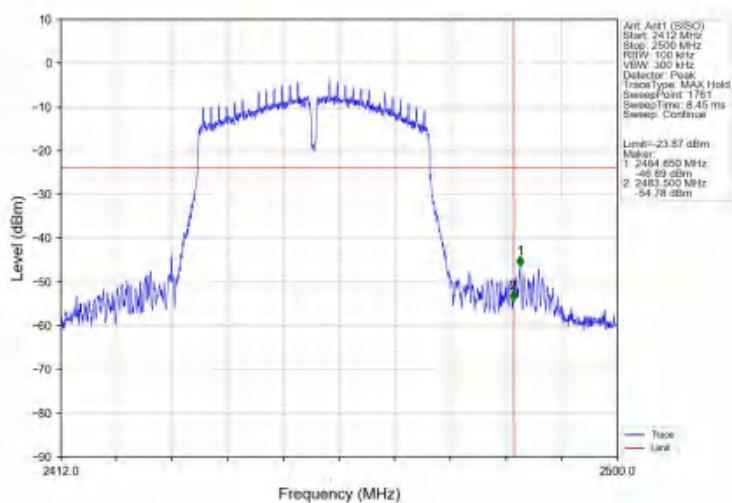
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



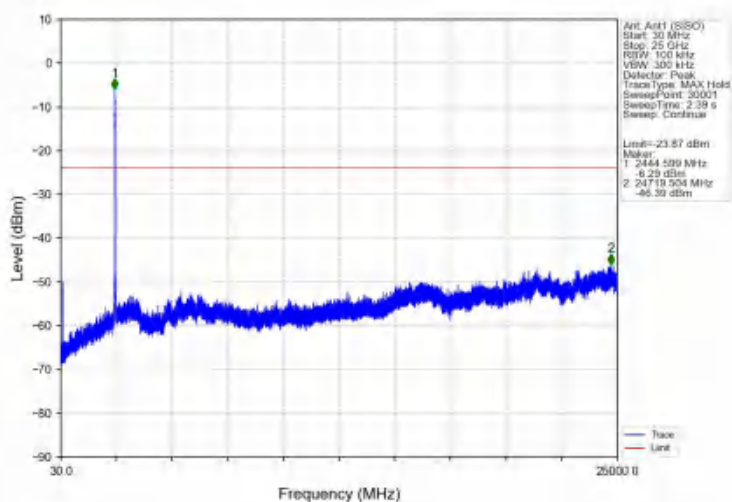
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



6. Form731

6.1 Test Result

6.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2412	2462	0.0422	16.25
2422	2452	0.0401	16.03



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-- END OF REPORT --