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Report No.: KSCR240600111303

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TEST REPORT

Application No.: KSCR2406001113AT

FCC ID: 2AC8UA2323 **IC**: 21806-A2323

Applicant: Anhui Huami Information Technology Co., Ltd.

Address of Applicant: 7/F, Building B2, Huami Global Innovation Center, No. 900, Wangjiang West

Road, High-tech Zone, Hefei City, China (Anhui) Pilot Free Trade Zone

(230088)

Manufacturer: Anhui Huami Information Technology Co., Ltd.

Address of Manufacturer: 7/F, Building B2, Huami Global Innovation Center, No. 900, Wangjiang West

Road, High-tech Zone, Hefei City, China (Anhui) Pilot Free Trade Zone

(230088)

Factory: Huzhou Luxshare Precision Industry Co., Ltd.

Address of Factory: No.399, Shengxun Road, Zhili Town, Wuxing District, Huzhou City, Zheijang

Province, China

Equipment Under Test (EUT):

EUT Name: Smart Watch

Model No.: A2323
Trade Mark: AMAZFIT

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

RSS-247 Issue 3, August 2023

RSS-Gen Issue 5 Amendment 2 (February 2021)

Date of Receipt: 2024-06-19

Date of Test: 2024-07-01 to 2024-07-06

Date of Issue: 2024-07-18

Test Result: Pass*

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



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	Revision Record				
Version	Description	Date	Remark		
00	Original	2024-07-18	/		

Authorized for issue by:		
Tested By	Damon zhou	
	Damon Zhou /Project Engineer	
Approved By	Verry Hou	
	Terry Hou /Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement					
Item	FCC Requirement	IC Requirement	Method	Result	
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Customer Declaration	

N/A: Not applicable

Radio Spectrum Mat	Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result	
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Section 11.8.1	Pass	
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.2	Pass	
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.2	Pass	
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.13.3.2	Pass	
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11	Pass	
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass	
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass	
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass	



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4 General Information

4.1 Details of E.U.T.

DC 3.87V by Rechargeable Li-ion Battery
Battery model:PL662630
Rated Capacity:700mAh/2.71Wh
Nominal Voltage:3.87V
Limit Charge:4.45V
802.11b/g/n(HT20): 2412MHz to 2462MHz
802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
802.11b/g/n(HT20):11
5MHz
IFA Antenna
-6.02dBi (Provided by the manufacturer)
E2MH93C323
2.0.18.1

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	Lenovo	/	/

4.3 Power level setting using in test

Oh a a a a l	802.11b	802.11g	802.11n(HT20)
Channel	Ant 1	Ant 1	Ant 1
L	14	13	13
М	14	13	13
Н	14	13	13



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4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
0	DE Dodicted Dower	5.2dB (Below 1GHz)
8	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
	Dadiated Courieus Fraissian Test	4.5dB (30MHz-1GHz)
9	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%
Moto: T	he measurement uncertainty represents	an expanded uncertainty expressed at

Note: The measurement uncertainty represents an expanded uncertainty expressed at

approximately the 95% confidence level using a coverage factor of k=2.



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4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

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

No tests were sub-contracted.

Note:

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

4.6 Test Facility

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

A2LA

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

• FCC

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

• ISED

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

• VCCI

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

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

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



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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 IFA antenna and no consideration of replacement. The best case gain of the antenna is -6.02dBi.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 Radiated Emissions which fall in the restricted bands

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

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

Limit:

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

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

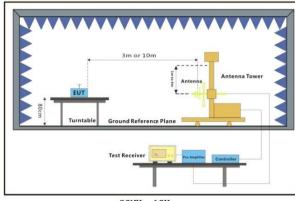


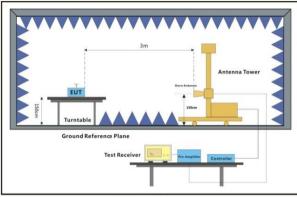
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7.1.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.1.4 Measurement Procedure and Data

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

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

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

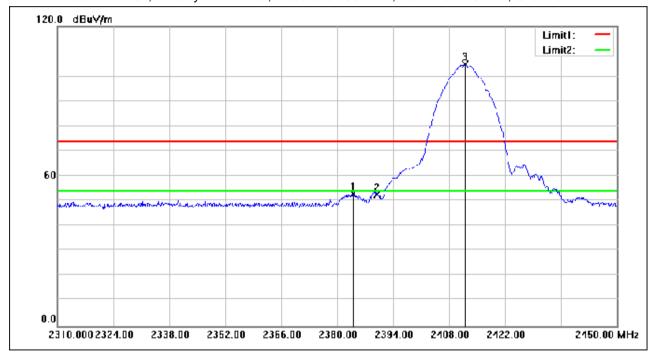


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2383.920	77.67	-24.73	52.94	74.00	-21.06	peak
2	2390.000	77.40	-24.71	52.69	74.00	-21.31	peak
3	2412.060	129.40	-24.60	104.80	74.00	30.80	peak

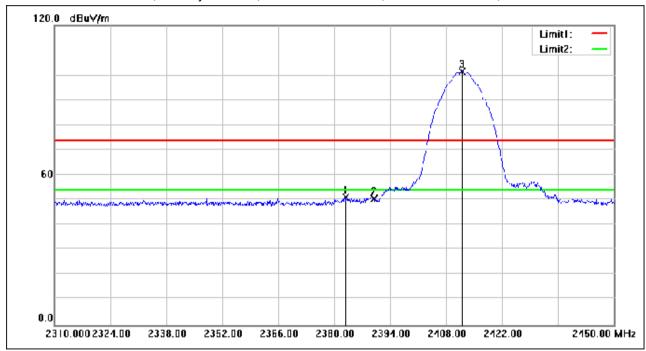


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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2382.800	75.99	-24.74	51.25	74.00	-22.75	peak
2	2390.000	75.29	-24.71	50.58	74.00	-23.42	peak
3	2412.060	126.24	-24.60	101.64	74.00	27.64	peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2461.850	128.40	-24.37	104.03	74.00	30.03	peak
2	2483.500	76.44	-24.27	52.17	74.00	-21.83	peak
3	2489.450	76.58	-24.24	52.34	74.00	-21.66	peak
4	2500.000	73.15	-24.19	48.96	74.00	-25.04	peak

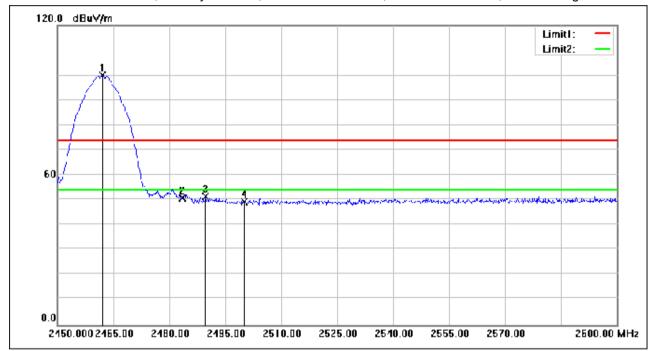


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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2462.000	124.40	-24.37	100.03	74.00	26.03	peak
2	2483.500	75.20	-24.27	50.93	74.00	-23.07	peak
3	2489.750	75.70	-24.24	51.46	74.00	-22.54	peak
4	2500.000	73.63	-24.19	49.44	74.00	-24.56	peak

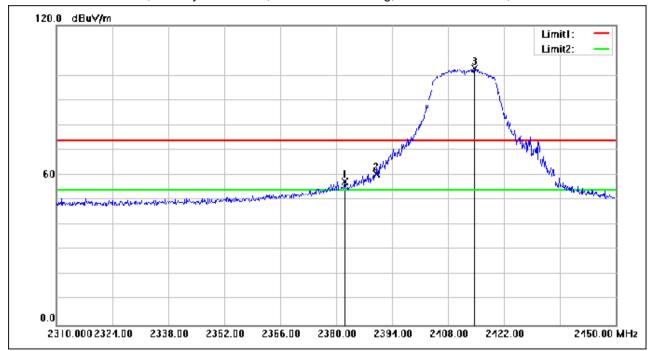


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2382.100	82.22	-24.74	57.48	74.00	-16.52	peak
2	2390.000	85.08	-24.71	60.37	74.00	-13.63	peak
3	2414.580	127.23	-24.59	102.64	74.00	28.64	peak

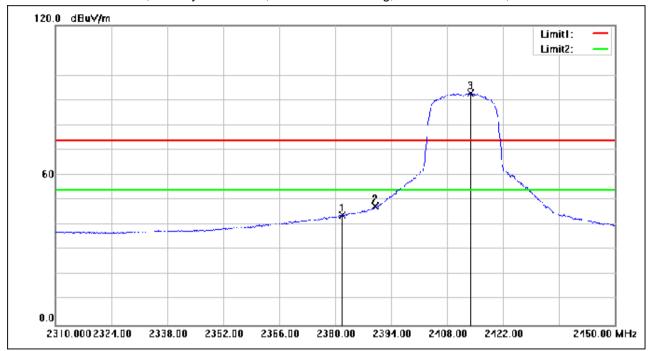


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2381.820	68.77	-24.74	44.03	54.00	-9.97	AVG
2	2390.000	72.17	-24.71	47.46	54.00	-6.54	AVG
3	2413.880	117.50	-24.59	92.91	54.00	38.91	AVG

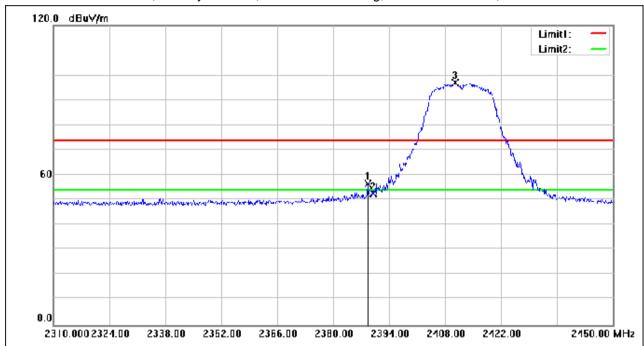


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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.680	81.14	-24.71	56.43	74.00	-17.57	peak
2	2390.000	77.34	-24.71	52.63	74.00	-21.37	peak
3	2410.520	121.52	-24.61	96.91	74.00	22.91	peak

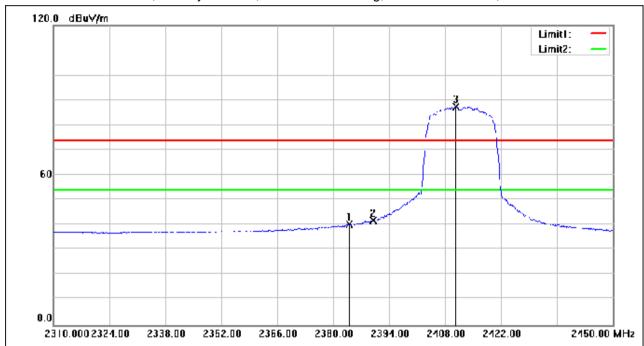


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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2384.060	65.14	-24.73	40.41	54.00	-13.59	AVG
2	2390.000	66.61	-24.71	41.90	54.00	-12.10	AVG
3	2410.660	112.07	-24.61	87.46	54.00	33.46	AVG



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2462.150	126.61	-24.37	102.24	74.00	28.24	peak
2	2483.500	83.29	-24.27	59.02	74.00	-14.98	peak
3	2489.750	79.24	-24.24	55.00	74.00	-19.00	peak
4	2500.000	75.64	-24.19	51.45	74.00	-22.55	peak

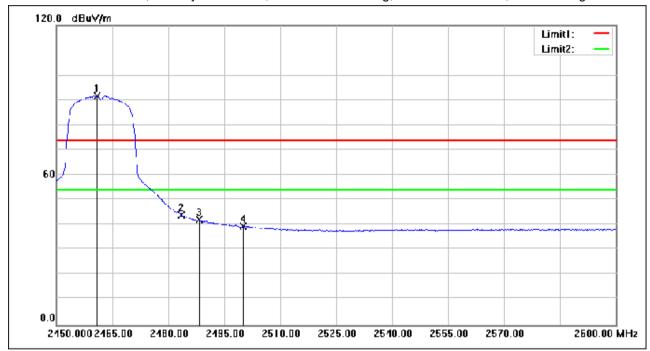


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2460.950	116.04	-24.38	91.66	54.00	37.66	AVG
2	2483.500	68.14	-24.27	43.87	54.00	-10.13	AVG
3	2488.250	66.41	-24.25	42.16	54.00	-11.84	AVG
4	2500.000	63.50	-24.19	39.31	54.00	-14.69	AVG

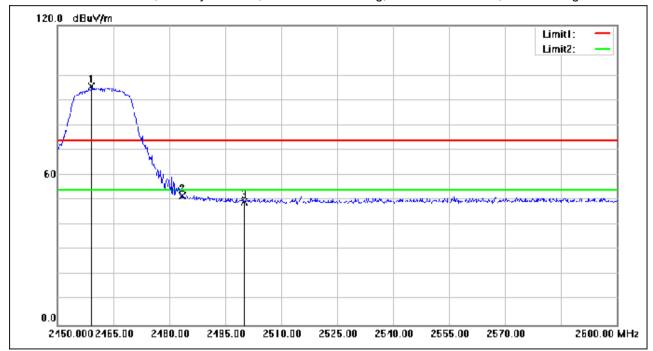


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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2459.150	120.01	-24.38	95.63	74.00	21.63	peak
2	2483.500	75.96	-24.27	51.69	74.00	-22.31	peak
3	2500.000	73.67	-24.19	49.48	74.00	-24.52	peak

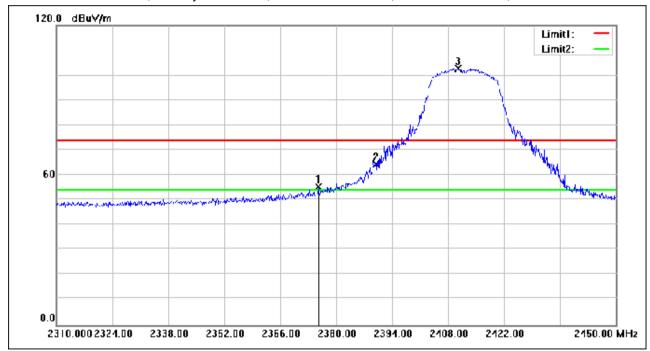


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2375.520	80.06	-24.78	55.28	74.00	-18.72	peak
2	2390.000	89.18	-24.71	64.47	74.00	-9.53	peak
3	2410.520	127.44	-24.61	102.83	74.00	28.83	peak

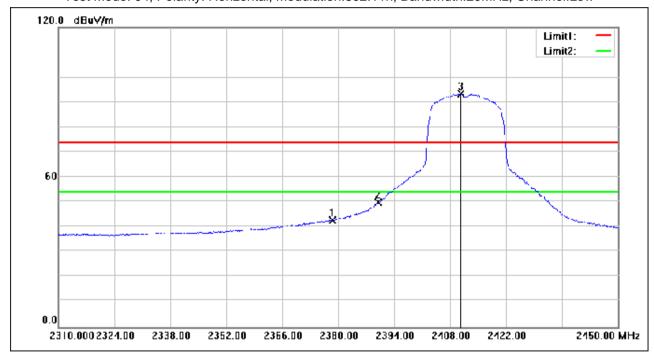


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2378.600	67.65	-24.75	42.90	54.00	-11.10	AVG
2	2390.000	74.57	-24.71	49.86	54.00	-4.14	AVG
3	2410.660	117.94	-24.61	93.33	54.00	39.33	AVG

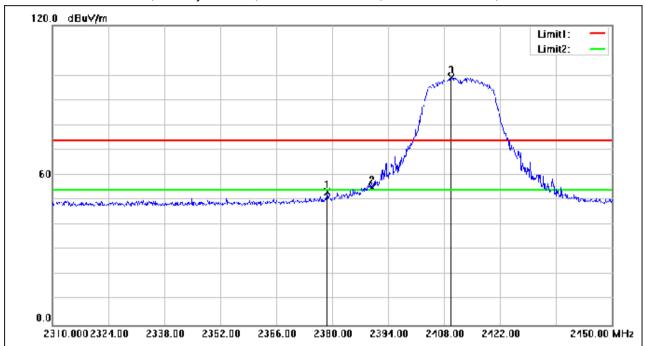


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2378.740	78.03	-24.75	53.28	74.00	-20.72	peak
2	2390.000	79.76	-24.71	55.05	74.00	-18.95	peak
3	2409.820	123.64	-24.61	99.03	74.00	25.03	peak

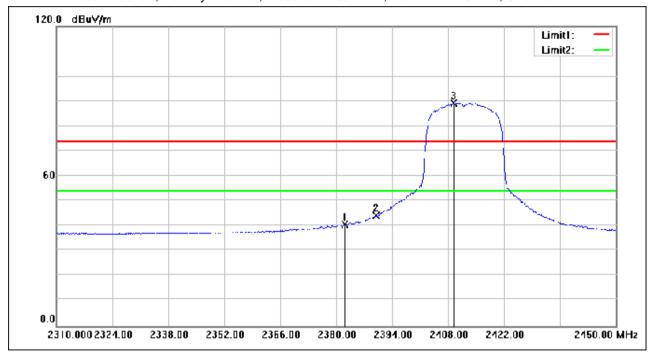


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2382.100	65.29	-24.74	40.55	54.00	-13.45	AVG
2	2390.000	68.87	-24.71	44.16	54.00	-9.84	AVG
3	2409.400	114.00	-24.61	89.39	54.00	35.39	AVG

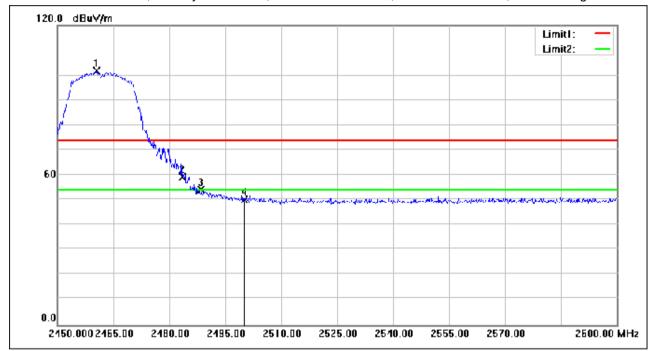


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2460.500	126.25	-24.38	101.87	74.00	27.87	peak
2	2483.500	83.50	-24.27	59.23	74.00	-14.77	peak
3	2488.550	78.34	-24.25	54.09	74.00	-19.91	peak
4	2500.000	74.55	-24.19	50.36	74.00	-23.64	peak

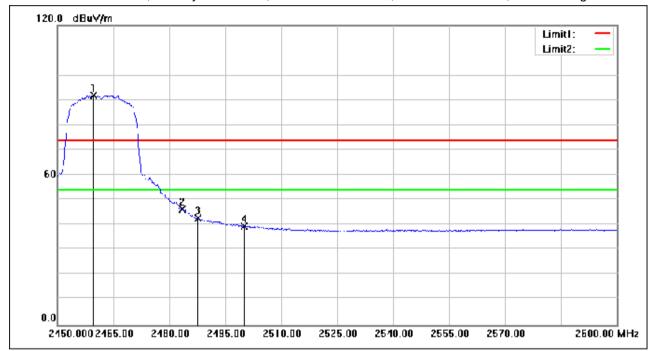


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2459.600	116.47	-24.38	92.09	54.00	38.09	AVG
2	2483.500	70.75	-24.27	46.48	54.00	-7.52	AVG
3	2487.650	66.90	-24.25	42.65	54.00	-11.35	AVG
4	2500.000	63.72	-24.19	39.53	54.00	-14.47	AVG

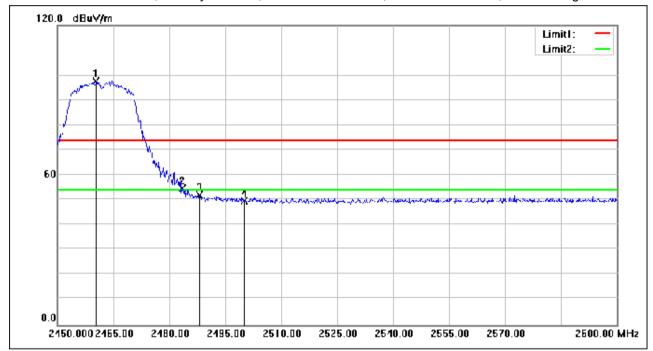


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2460.350	122.10	-24.38	97.72	74.00	23.72	peak
2	2483.500	78.97	-24.27	54.70	74.00	-19.30	peak
3	2488.100	76.44	-24.25	52.19	74.00	-21.81	peak
4	2500.000	73.84	-24.19	49.65	74.00	-24.35	peak

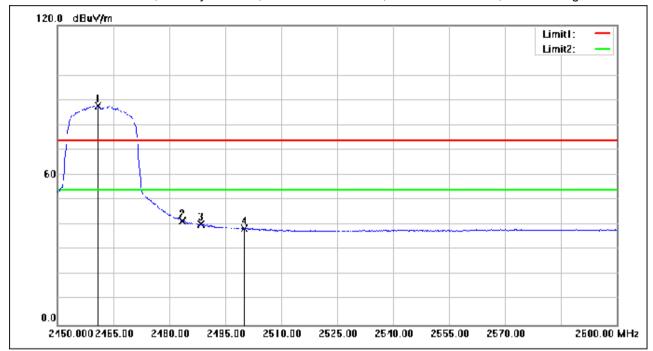


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2460.800	112.10	-24.38	87.72	54.00	33.72	AVG
2	2483.500	65.80	-24.27	41.53	54.00	-12.47	AVG
3	2488.550	64.45	-24.25	40.20	54.00	-13.80	AVG
4	2500.000	62.70	-24.19	38.51	54.00	-15.49	AVG



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7.2 Radiated Spurious Emissions Below 1GHz

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

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

Limit:

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

7.2.1 E.U.T. Operation

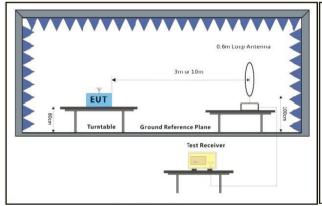
Operating Environment:

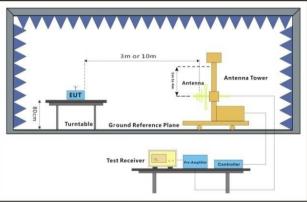
Temperature: 20.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description							
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.							

7.2.3 Test Setup Diagram





Below 30MHz 30MHz-1GHz



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7.2.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

Remark:

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

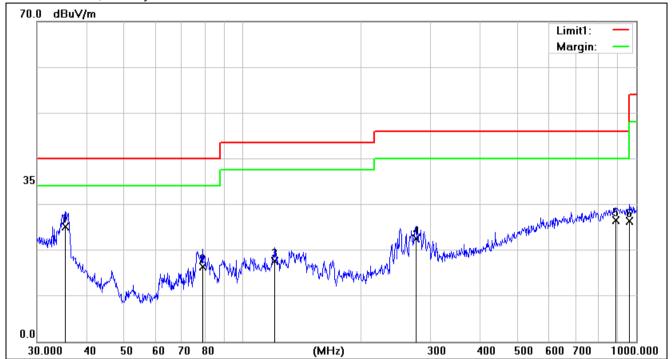


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Test Mode: 04; Polarity: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	35.3750	9.36	15.77	25.13	40.00	-14.87	200	183	QP
2	78.9652	6.68	9.67	16.35	40.00	-23.65	100	344	QP
3	120.6991	3.35	14.18	17.53	43.50	-25.97	100	11	QP
4	275.1570	7.31	15.22	22.53	46.00	-23.47	200	319	QP
5	887.6099	1.04	25.49	26.53	46.00	-19.47	100	187	QP
6	962.1623	1.27	25.07	26.34	54.00	-27.66	100	80	QP

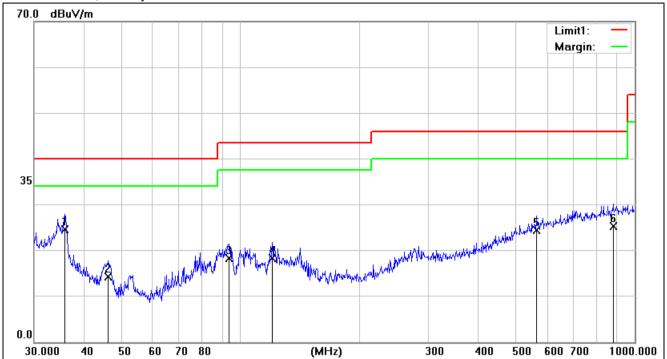


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Test Mode: 04; Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	35.8747	9.00	15.53	24.53	40.00	-15.47	100	260	QP
2	46.1780	6.07	8.19	14.26	40.00	-25.74	100	63	QP
3	93.4402	6.11	12.25	18.36	43.50	-25.14	200	83	QP
4	120.6991	4.07	14.18	18.25	43.50	-25.25	100	216	QP
5	564.6389	2.08	22.28	24.36	46.00	-21.64	300	152	QP
6	881.4067	-0.22	25.58	25.36	46.00	-20.64	100	0	QP



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7.3 Radiated Spurious Emissions Above 1GHz

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

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

Limit:

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

7.3.1 E.U.T. Operation

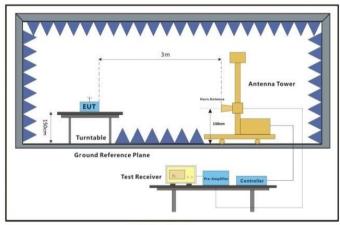
Operating Environment:

Temperature: 20.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



Above 1GHz



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7.3.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

Remark:

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

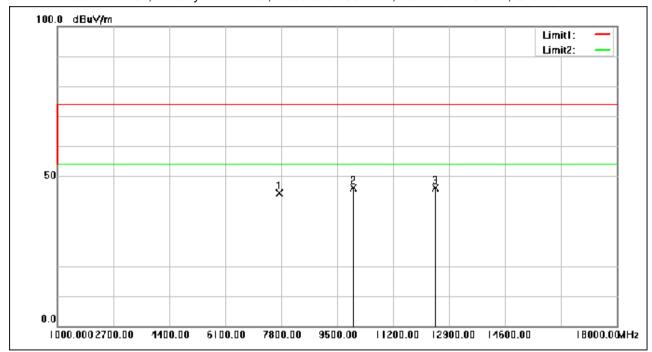


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7755.120	55.31	-10.92	44.39	74.00	-29.61	peak
2	9988.240	53.35	-7.33	46.02	74.00	-27.98	peak
3	12491.320	52.17	-6.11	46.06	74.00	-27.94	peak

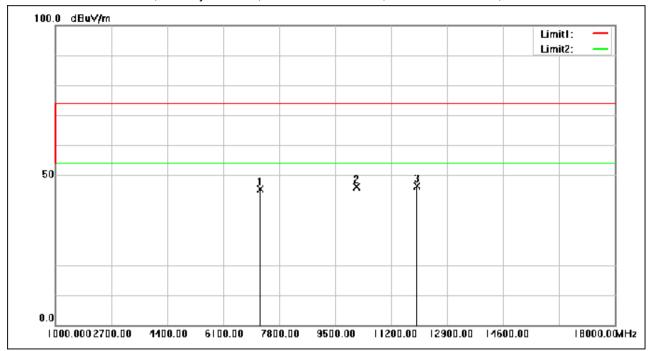


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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7234.920	56.94	-11.47	45.47	74.00	-28.53	peak
2	10150.080	53.40	-7.24	46.16	74.00	-27.84	peak
3	11983.360	52.28	-5.92	46.36	74.00	-27.64	peak

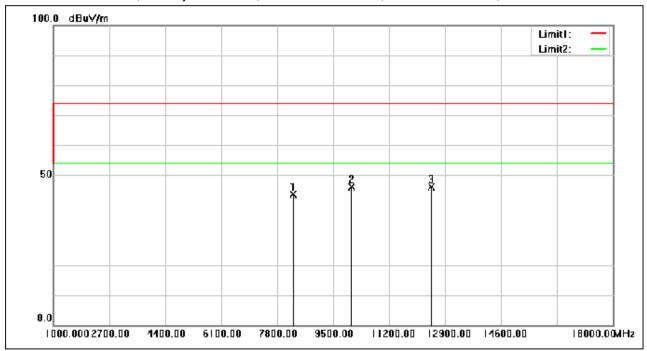


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8289.600	53.67	-10.10	43.57	74.00	-30.43	peak
2	10067.120	53.33	-7.29	46.04	74.00	-27.96	peak
3	12483.160	52.22	-6.10	46.12	74.00	-27.88	peak

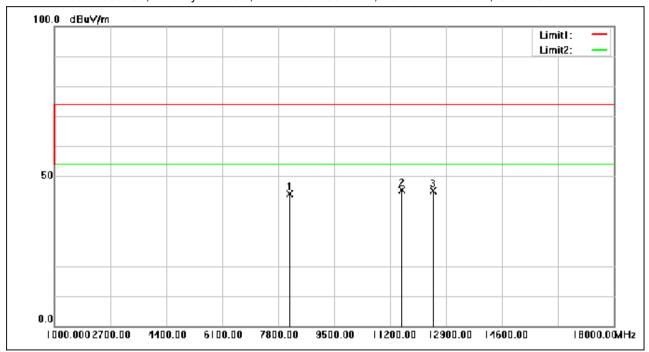


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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8152.920	54.49	-10.32	44.17	74.00	-29.83	peak
2	11554.280	51.76	-6.32	45.44	74.00	-28.56	peak
3	12518.520	51.29	-6.12	45.17	74.00	-28.83	peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7749.000	53.81	-10.93	42.88	74.00	-31.12	peak
2	9455.800	53.23	-8.04	45.19	74.00	-28.81	peak
3	12690.560	52.23	-6.20	46.03	74.00	-27.97	peak

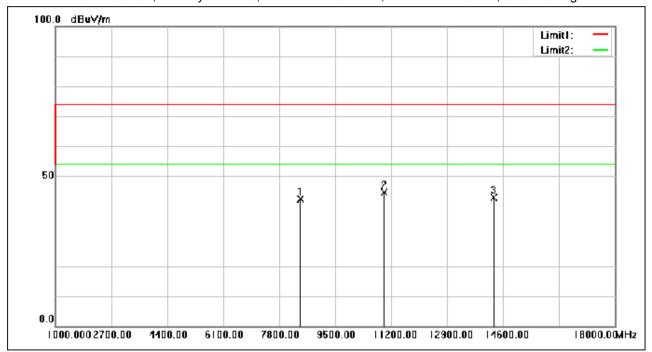


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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8451.440	52.21	-9.83	42.38	74.00	-31.62	peak
2	10984.440	51.42	-6.77	44.65	74.00	-29.35	peak
3	14324.600	49.00	-6.16	42.84	74.00	-31.16	peak

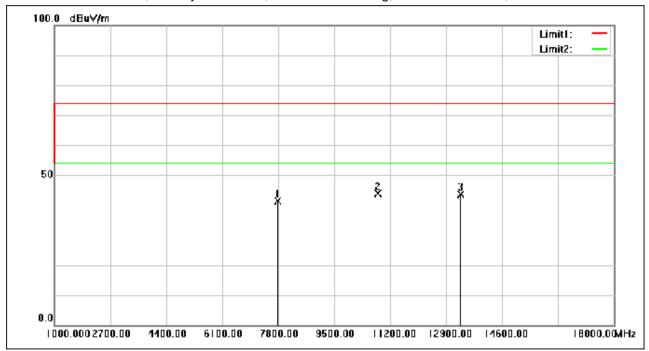


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7799.320	52.13	-10.87	41.26	74.00	-32.74	peak
2	10842.320	50.61	-6.84	43.77	74.00	-30.23	peak
3	13354.240	49.82	-6.31	43.51	74.00	-30.49	peak

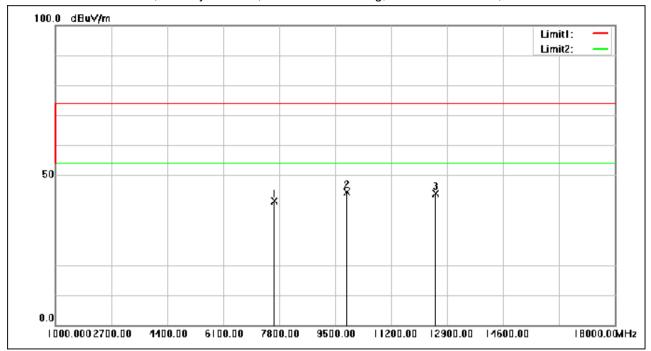


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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7661.960	52.46	-11.04	41.42	74.00	-32.58	peak
2	9861.760	51.66	-7.30	44.36	74.00	-29.64	peak
3	12557.280	49.95	-6.14	43.81	74.00	-30.19	peak

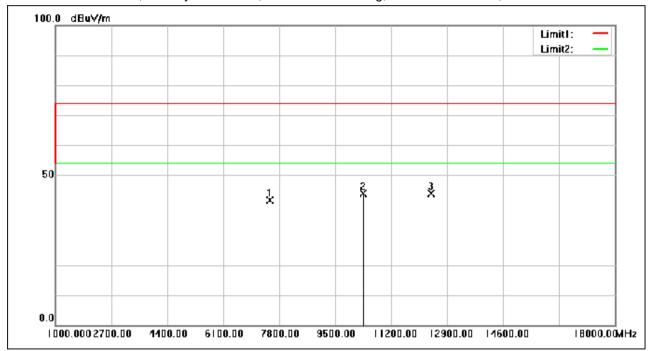


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7519.160	52.89	-11.23	41.66	74.00	-32.34	peak
2	10357.480	50.95	-7.12	43.83	74.00	-30.17	peak
3	12418.560	49.88	-6.08	43.80	74.00	-30.20	peak

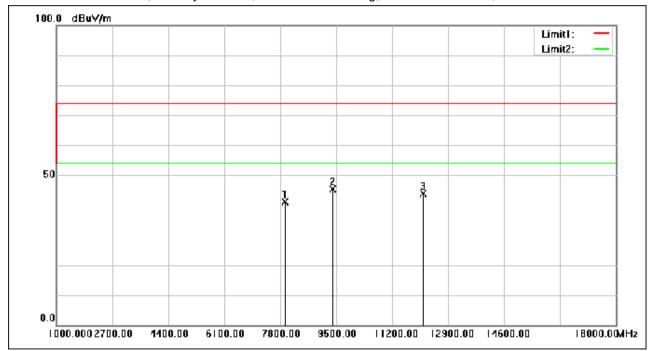


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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7961.160	51.74	-10.65	41.09	74.00	-32.91	peak
2	9402.080	53.45	-8.14	45.31	74.00	-28.69	peak
3	12140.440	49.78	-5.95	43.83	74.00	-30.17	peak

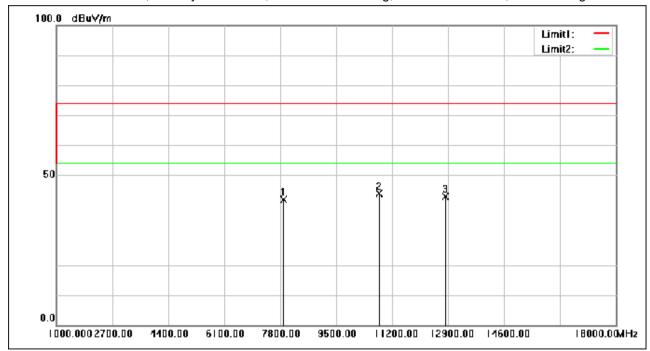


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7915.600	52.66	-10.71	41.95	74.00	-32.05	peak
2	10817.840	50.65	-6.86	43.79	74.00	-30.21	peak
3	12827.240	49.24	-6.26	42.98	74.00	-31.02	peak

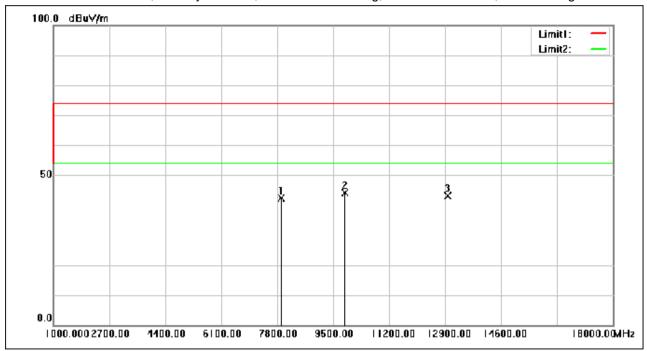


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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7925.800	53.00	-10.70	42.30	74.00	-31.70	peak
2	9867.880	51.51	-7.30	44.21	74.00	-29.79	peak
3	12997.920	49.55	-6.34	43.21	74.00	-30.79	peak

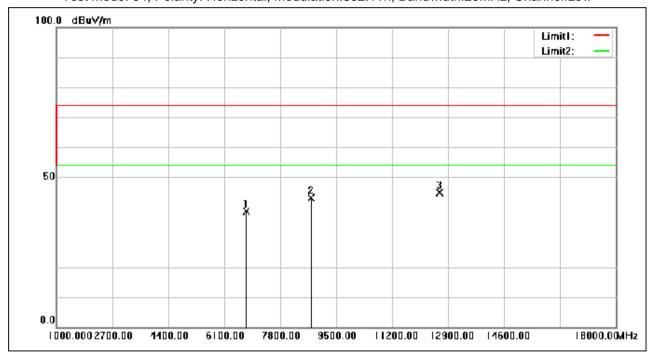


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6771.160	50.68	-11.96	38.72	74.00	-35.28	peak
2	8739.080	52.40	-9.36	43.04	74.00	-30.96	peak
3	12652.480	50.96	-6.19	44.77	74.00	-29.23	peak

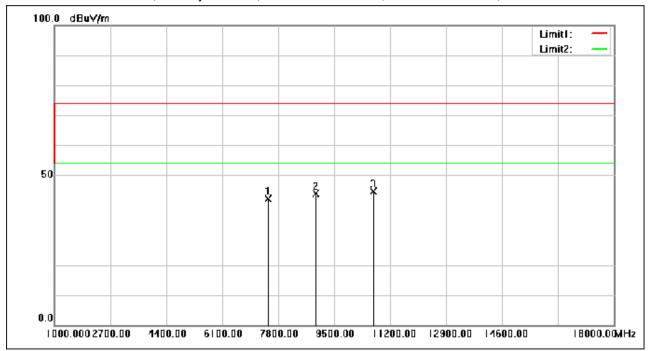


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7502.160	53.30	-11.26	42.04	74.00	-31.96	peak
2	8953.960	52.80	-9.00	43.80	74.00	-30.20	peak
3	10704.960	51.56	-6.92	44.64	74.00	-29.36	peak

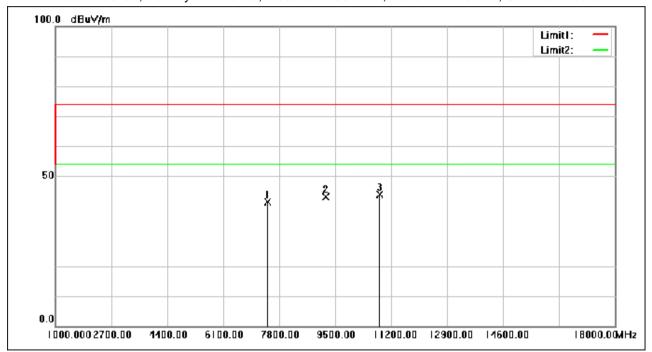


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7445.040	52.73	-11.33	41.40	74.00	-32.60	peak
2	9217.120	51.53	-8.49	43.04	74.00	-30.96	peak
3	10852.520	50.83	-6.83	44.00	74.00	-30.00	peak



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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7457.280	52.80	-11.31	41.49	74.00	-32.51	peak
2	9744.120	50.99	-7.49	43.50	74.00	-30.50	peak
3	11738.560	49.38	-6.17	43.21	74.00	-30.79	peak

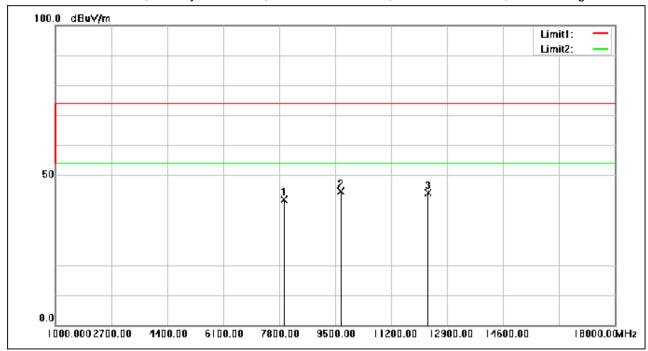


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7967.280	52.47	-10.64	41.83	74.00	-32.17	peak
2	9674.080	52.30	-7.63	44.67	74.00	-29.33	peak
3	12328.800	50.18	-6.03	44.15	74.00	-29.85	peak

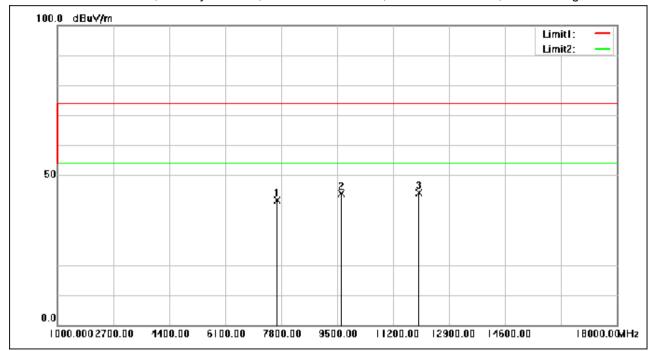


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7685.760	52.61	-11.02	41.59	74.00	-32.41	peak
2	9625.800	51.47	-7.71	43.76	74.00	-30.24	peak
3	11993.560	49.99	-5.90	44.09	74.00	-29.91	peak



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7.4 Conducted Average Output Power

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

Limit:

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

7.4.1 E.U.T. Operation

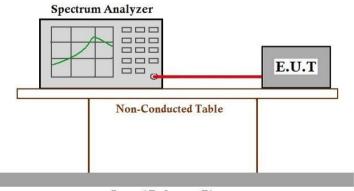
Operating Environment:

Temperature: 26.3 °C Humidity: 58.3 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

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



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7.5 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

7.5.1 E.U.T. Operation

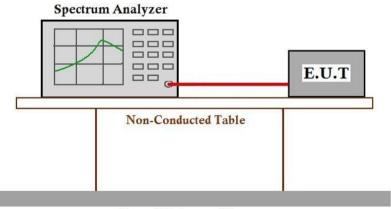
Operating Environment:

Temperature: 26.3 °C Humidity: 58.3 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data



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7.6 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

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

7.6.1 E.U.T. Operation

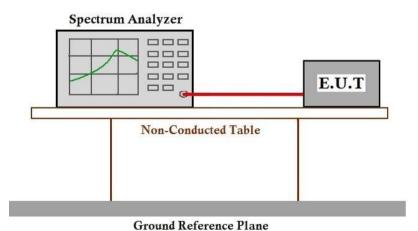
Operating Environment:

Temperature: 26.3 °C Humidity: 58.3 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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), 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



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7.7 Conducted Band Edges Measurement

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

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).

7.7.1 E.U.T. Operation

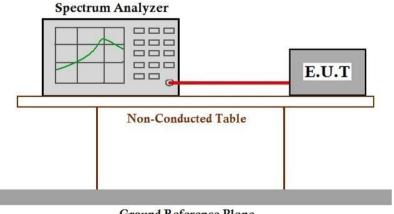
Operating Environment:

Temperature: 26.3 °C 58.3 % RH Atmospheric Pressure: 1010 mbar Humidity:

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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), 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



Ground Reference Plane

7.7.4 Measurement Procedure and Data



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7.8 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) ANSI C63.10 (2013) Section 11.11 Test Method:

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

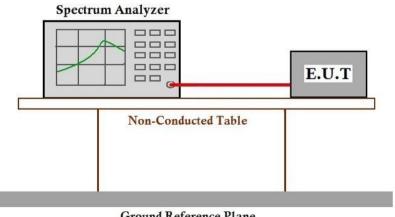
Operating Environment:

Temperature: 26.3 °C 58.3 % RH Atmospheric Pressure: 1010 mbar Humidity:

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data



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7.9 99% Bandwidth

Test Requirement RSS-Gen Section 6.7

Test Method: ANSI C63.10 (2013) Section 6.9.3

7.9.1 E.U.T. Operation

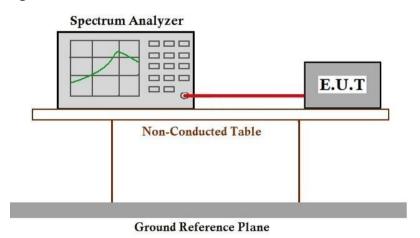
Operating Environment:

Temperature: 26.3 °C Humidity: 58.3 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2406001113AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2406001113AT



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Frequenc Type (MHz)		T_on Period (ms)		Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.613	8.707	98.92	0.05	0.04
		2437	8.613	8.707	98.92	0.05	0.04
		2462	8.613	8.707	98.92	0.05	0.04
802.11g	SISO	2412	1.429	1.528	93.52	0.29	0.06
		2437	1.429	1.527	93.58	0.29	0.00
		2462	1.429	1.527	93.58	0.29	0.00
802.11n (HT20)	SISO	2412	1.337	1.435	93.17	0.31	0.03
		2437	1.337	1.435	93.17	0.31	0.06
		2462	1.336	1.435	93.10	0.31	0.06



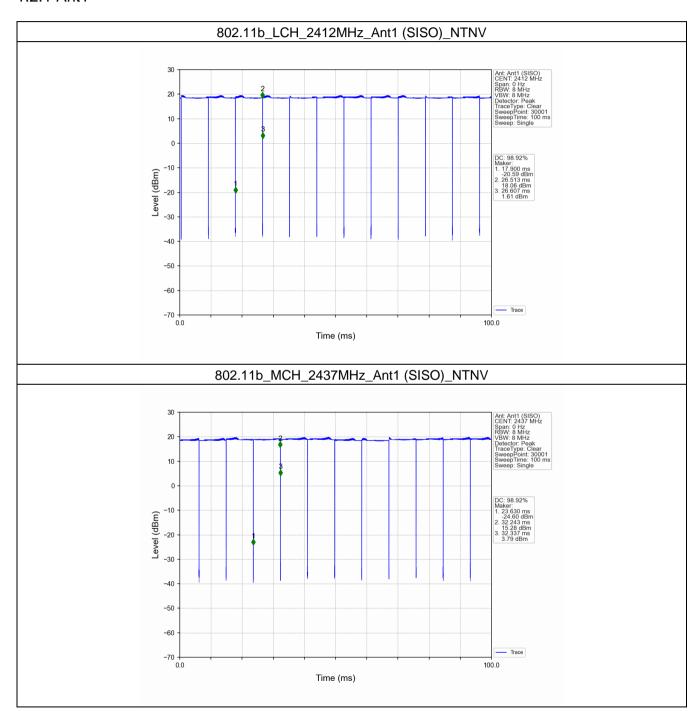
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1.2 Test Graph

1.2.1 Ant1

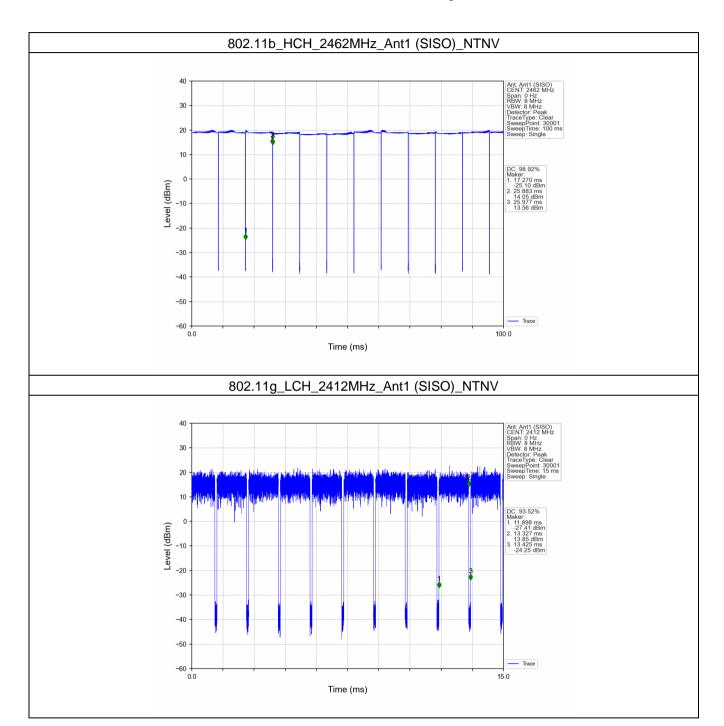




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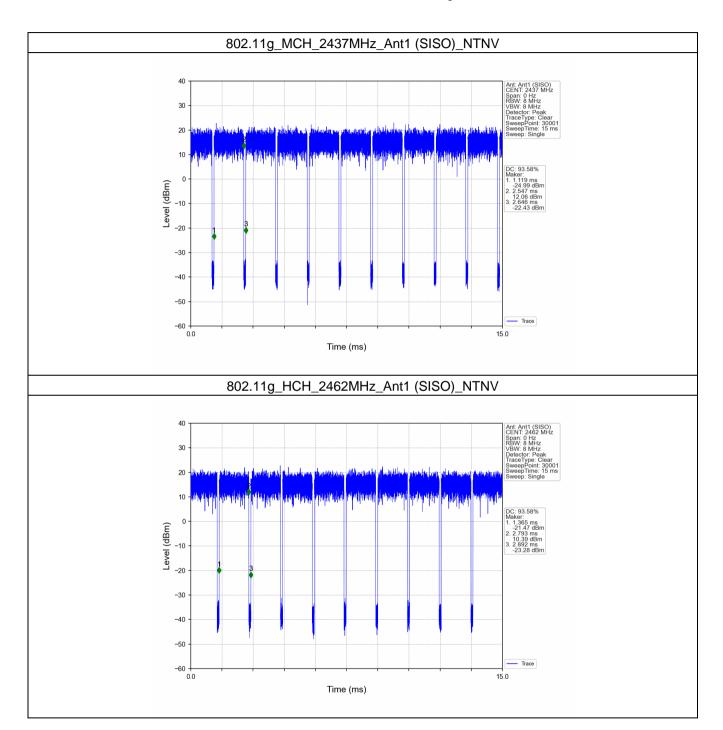




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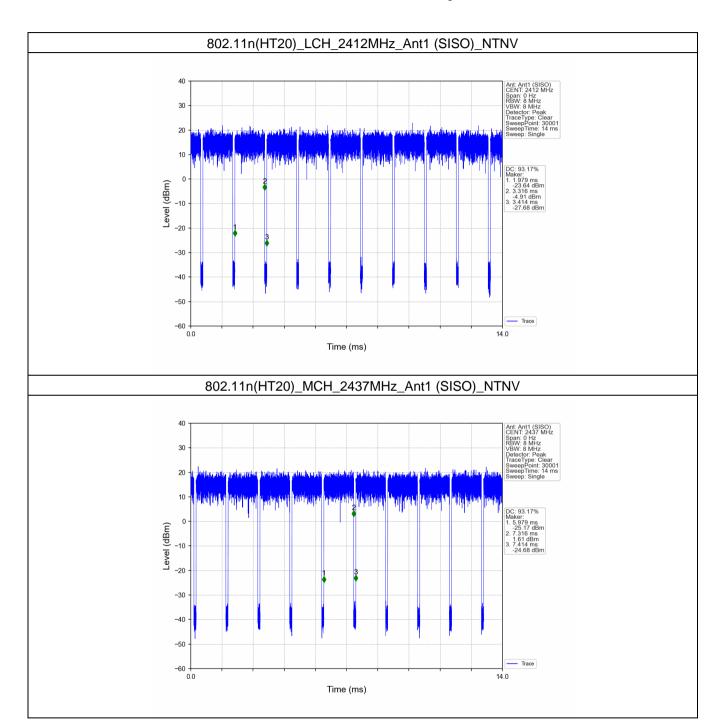




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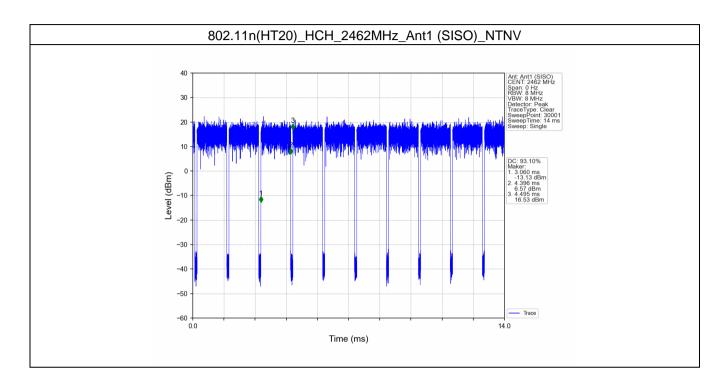




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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied E	Vondint	
				Result	Limit	Verdict
802.11b	SISO	2412	1	12.673	/	Pass
		2437	1	12.724	/	Pass
		2462	1	12.733	/	Pass
802.11g	SISO	2412	1	17.215	/	Pass
		2437	1	17.204	/	Pass
		2462	1	17.232	/	Pass
802.11n (HT20)	SISO	2412	1	18.226	/	Pass
		2437	1	18.309	/	Pass
		2462	1	18.281	/	Pass

2.1.2 6dB BW

Mode	TX	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Mondiet
	Type			Result	Limit	Verdict
802.11b	SISO	2412	1	6.595	>=0.5	Pass
		2437	1	7.062	>=0.5	Pass
		2462	1	6.573	>=0.5	Pass
802.11g	SISO	2412	1	15.156	>=0.5	Pass
		2437	1	15.153	>=0.5	Pass
		2462	1	15.169	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	15.152	>=0.5	Pass
		2437	1	15.104	>=0.5	Pass
		2462	1	15.162	>=0.5	Pass



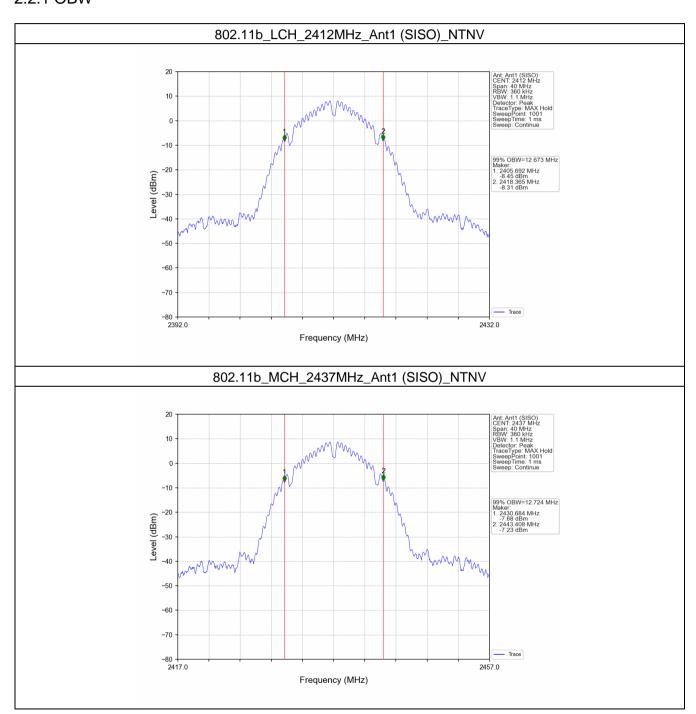
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2.2 Test Graph

2.2.1 OBW

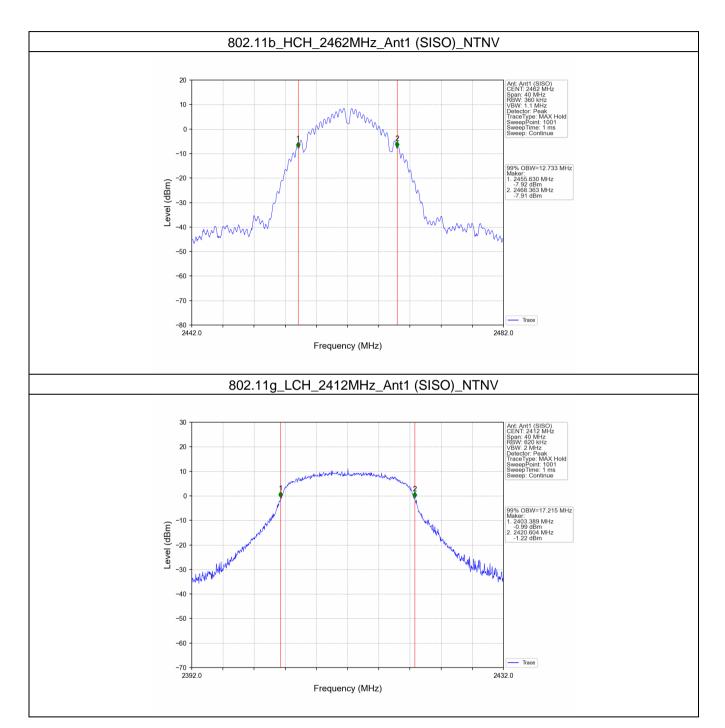




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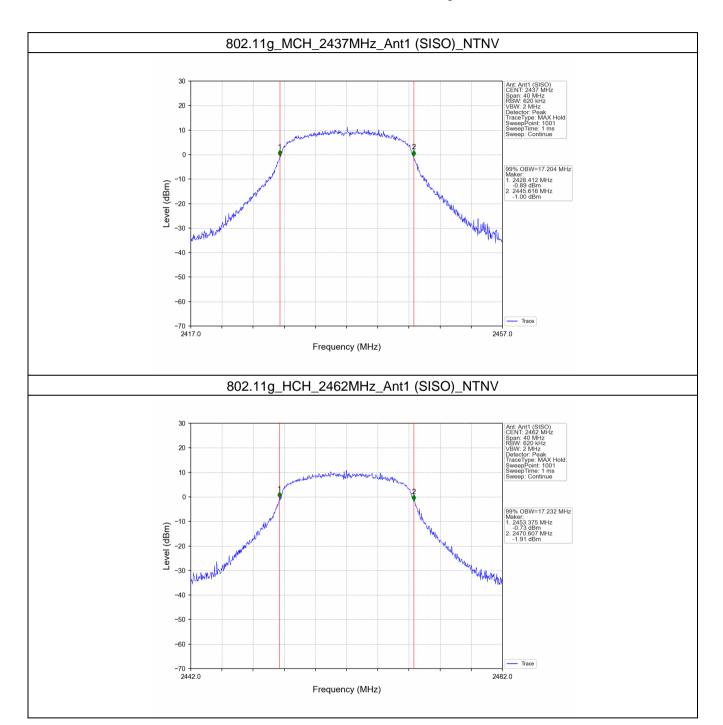




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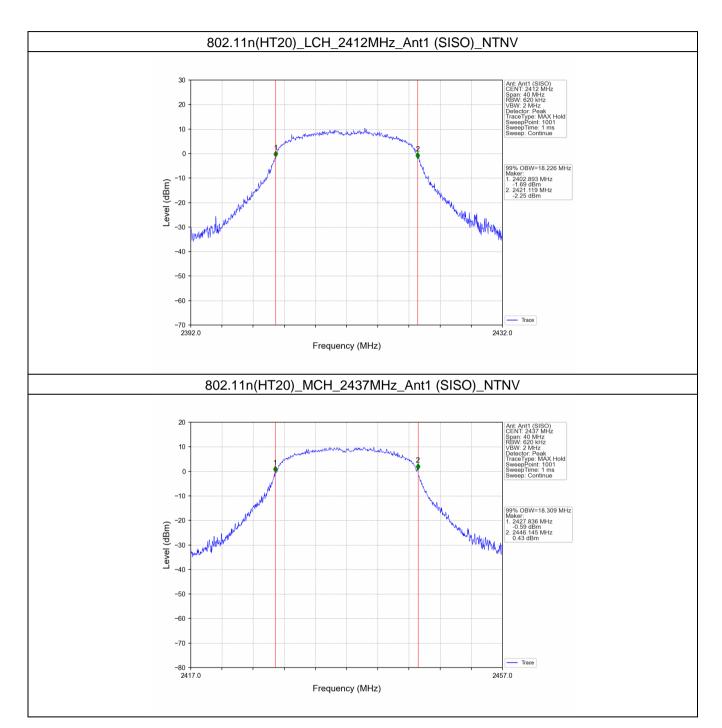




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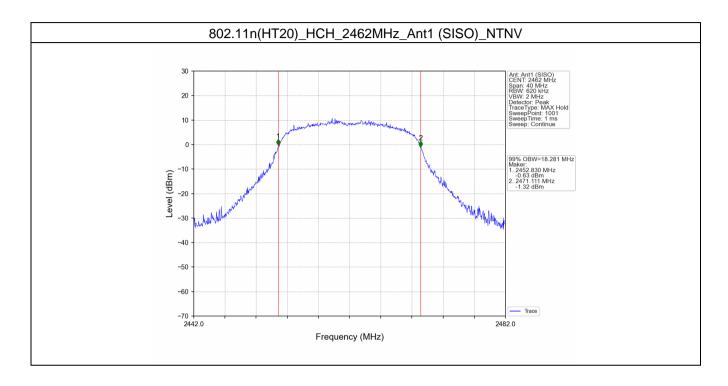




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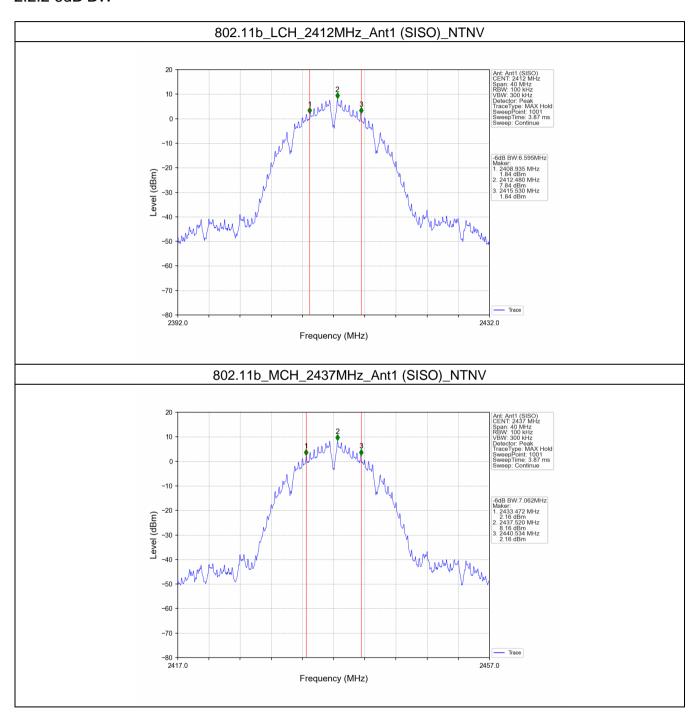


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2.2.2 6dB BW

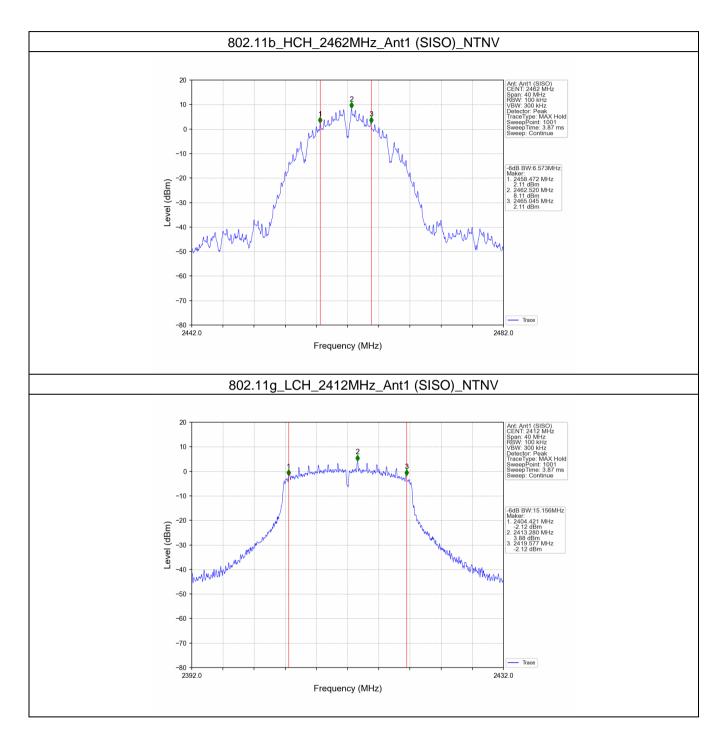




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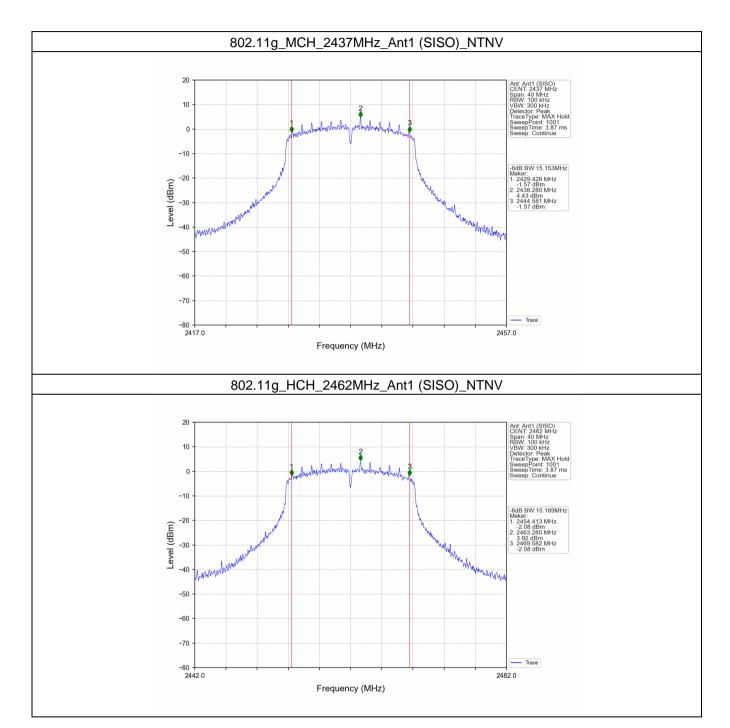




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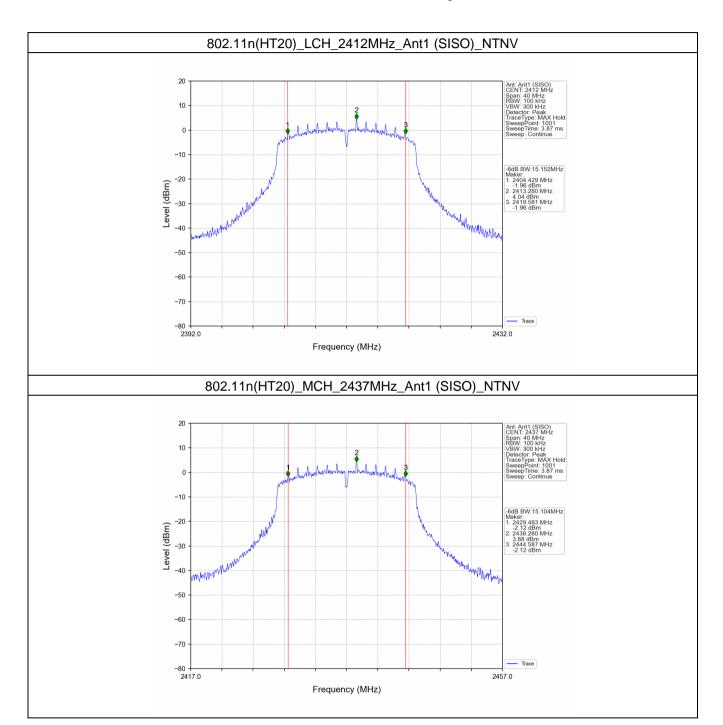




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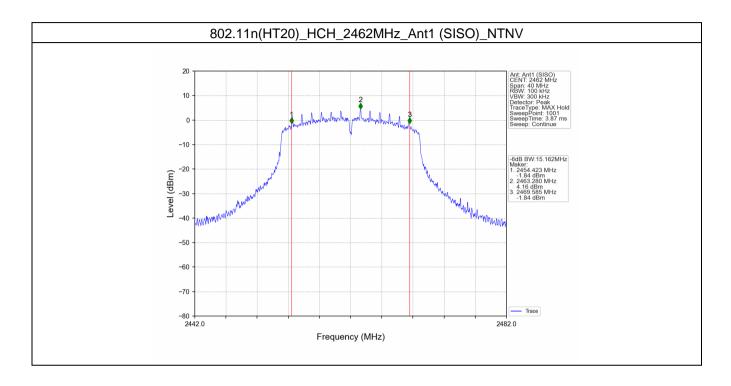




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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX	Frequency	Maximum Average Condu	\/o.=d:o.t		
	Type	(MHz)	ANT1	Limit	Verdict	
802.11b	SISO	2412	14.76	<=30	Pass	
		2437	15.04	<=30	Pass	
		2462	14.97	<=30	Pass	
802.11g	SISO	2412	13.95	<=30	Pass	
		2437	14.36	<=30	Pass	
		2462	14.27	<=30	Pass	
802.11n (HT20)		2412	13.84	<=30	Pass	
	SISO	2437	14.16	<=30	Pass	
		2462	14.13	<=30	Pass	
Note1: Antenna Gain: Ant1: -6.02dBi;						

3.1.2 EIRP

Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)		Verdict
			ANT1	Limit	verdict
802.11b	SISO	2412	8.74	<=36.02	Pass
		2437	9.02	<=36.02	Pass
		2462	8.95	<=36.02	Pass
802.11g	SISO	2412	7.93	<=36.02	Pass
		2437	8.34	<=36.02	Pass
		2462	8.25	<=36.02	Pass
802.11n (HT20)		2412	7.82	<=36.02	Pass
	SISO	2437	8.14	<=36.02	Pass
		2462	8.11	<=36.02	Pass

Note1: Antenna Gain: Ant1: -6.02dBi;

Note2: E.I.R.P = Measured Power + Antenna Gain



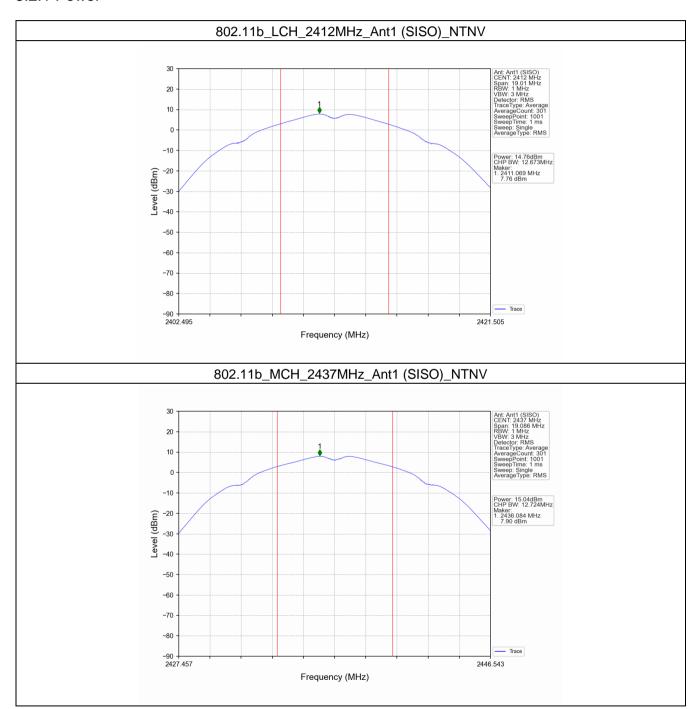
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3.2 Test Graph

3.2.1 Power

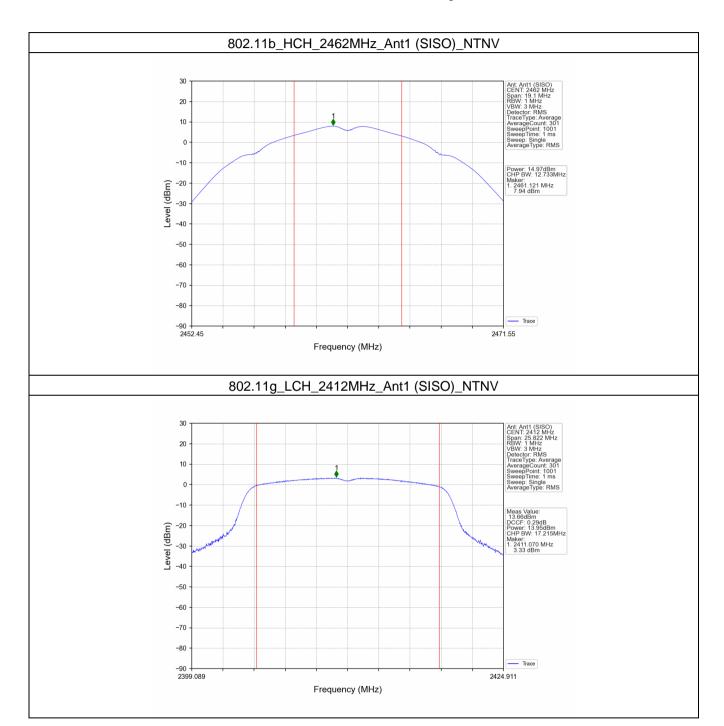




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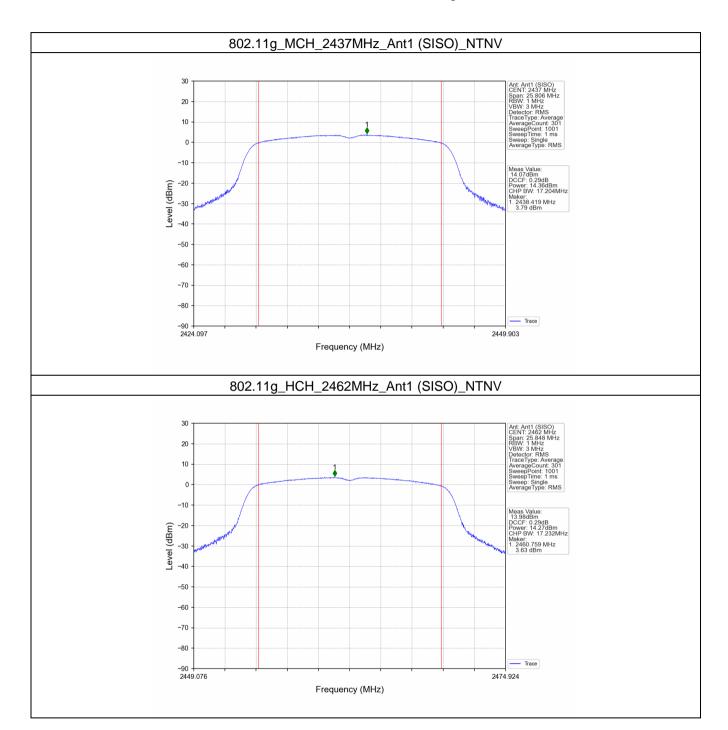




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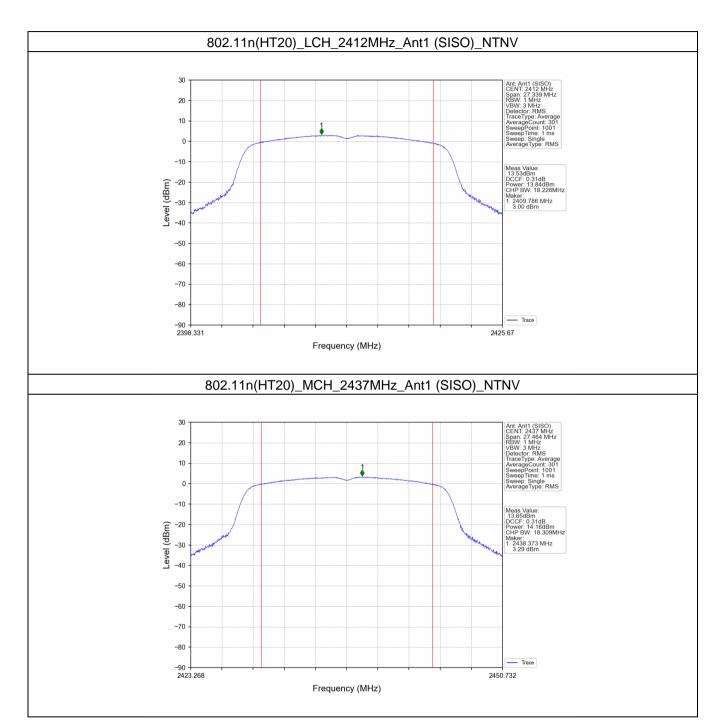




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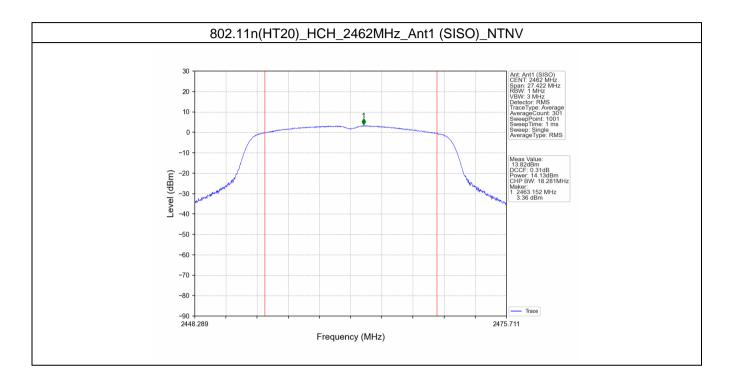




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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Mondiet	
			ANT1	Limit	Verdict	
802.11b	SISO	2412	-7.64	<=8	Pass	
		2437	-7.19	<=8	Pass	
		2462	-7.62	<=8	Pass	
802.11g	SISO	2412	-10.58	<=8	Pass	
		2437	-10.78	<=8	Pass	
		2462	-10.08	<=8	Pass	
802.11n (HT20)		2412	-10.51	<=8	Pass	
	SISO	2437	-10.64	<=8	Pass	
		2462	-11.08	<=8	Pass	
Note1: Antenna Gain: Ant1: -6.02dBi;						



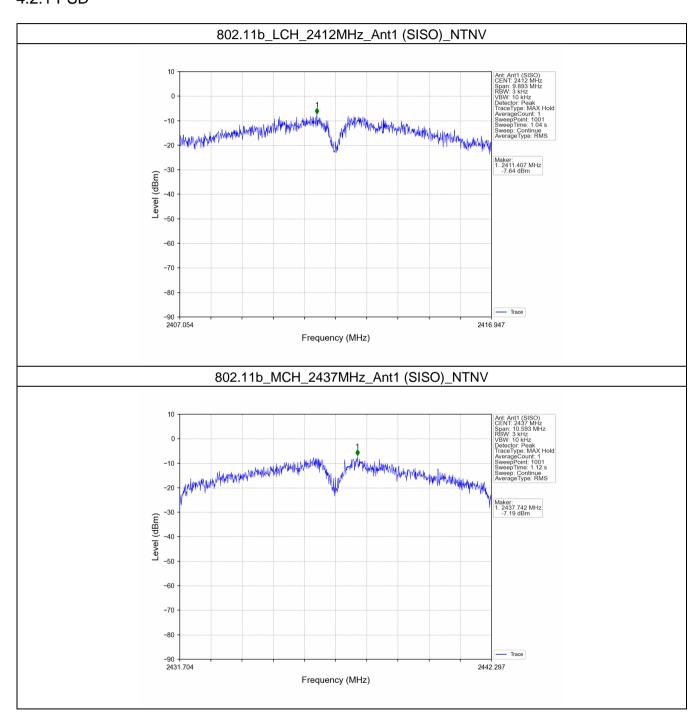
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4.2 Test Graph

4.2.1 PSD

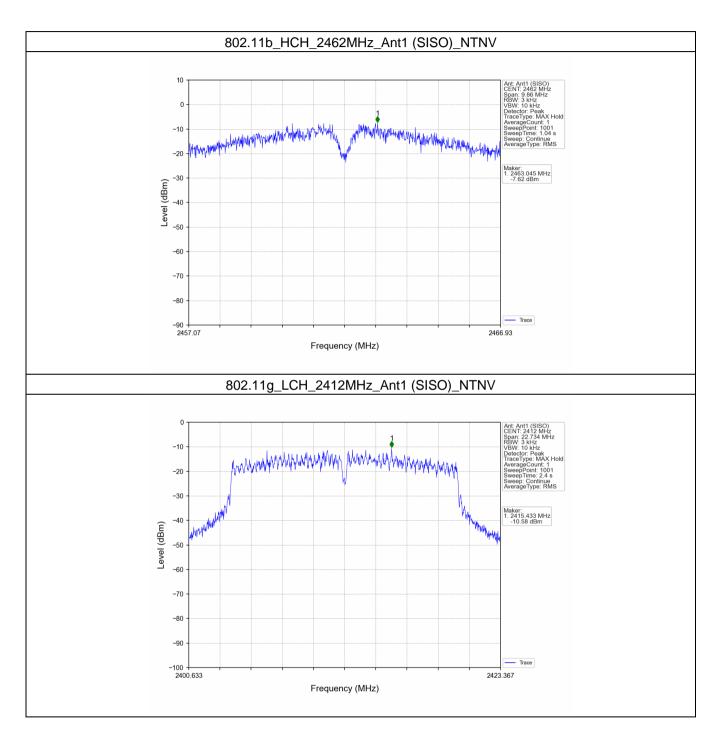




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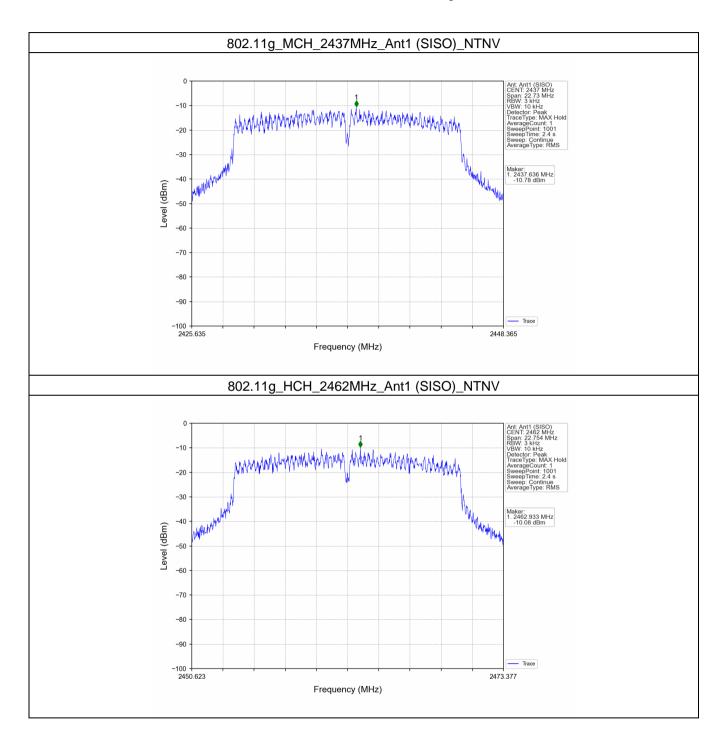




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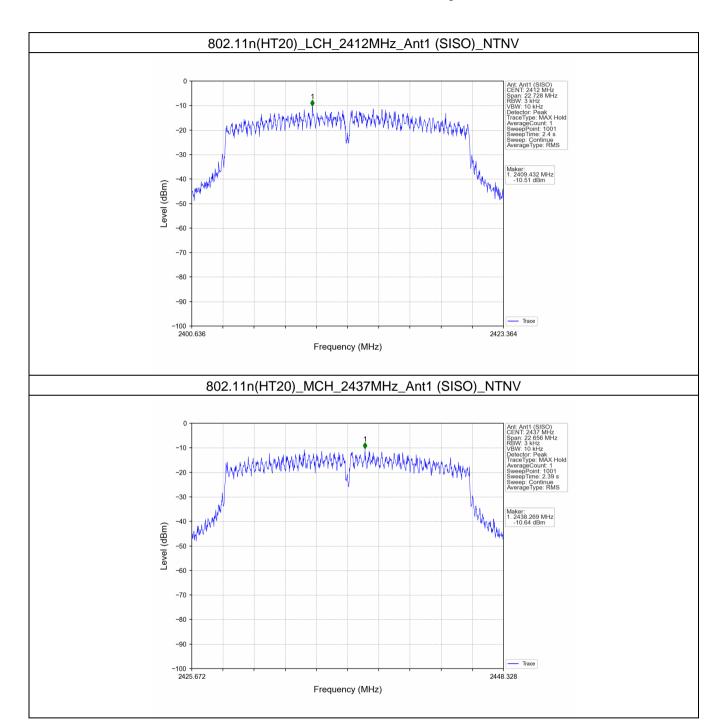




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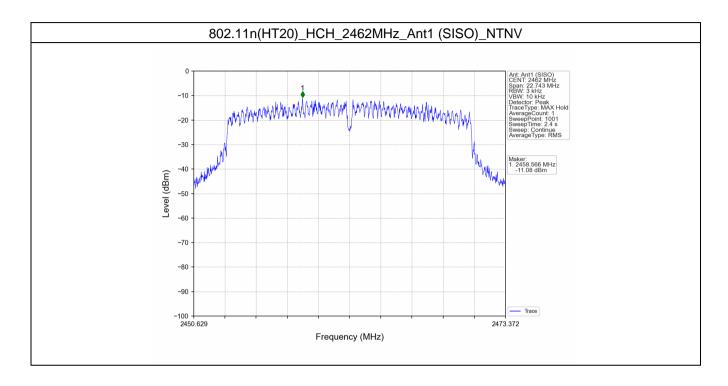




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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	7.67
		2437	1	8.15
		2462	1	8.08
	SISO	2412	1	3.71
802.11g		2437	1	3.95
802.11g		2462	1	4.16
802.11n (HT20)	SISO	2412	1	4.00
		2437	1	3.68
		2462	1	4.10

Note1: Refer to RSS-247 Issue 2 section 5.5 and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.15	-21.85	Pass
		2437	1	8.15	-21.85	Pass
		2462	1	8.15	-21.85	Pass
802.11g	SISO	2412	1	4.16	-25.84	Pass
		2437	1	4.16	-25.84	Pass
		2462	1	4.16	-25.84	Pass
802.11n (HT20)		2412	1	4.10	-25.90	Pass
	SISO	2437 1 4.10	4.10	-25.90	Pass	
		2462	1	4.10	-25.90	Pass

Note1: Refer to RSS-247 Issue 2 section 5.5 and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



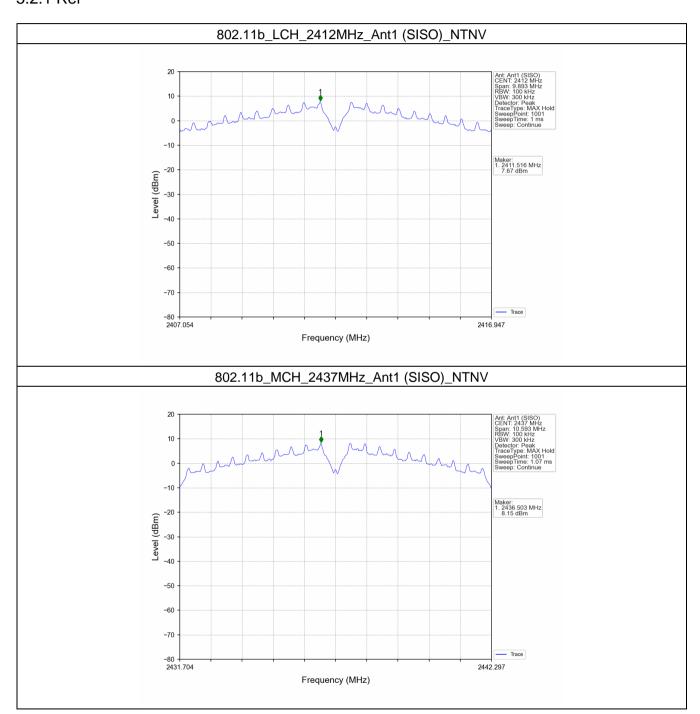
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5.2 Test Graph

5.2.1 Ref

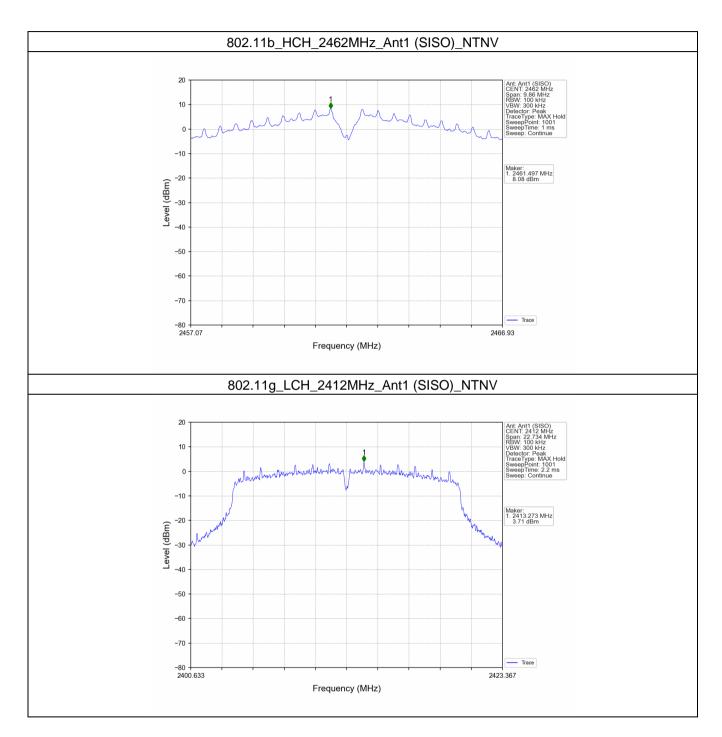




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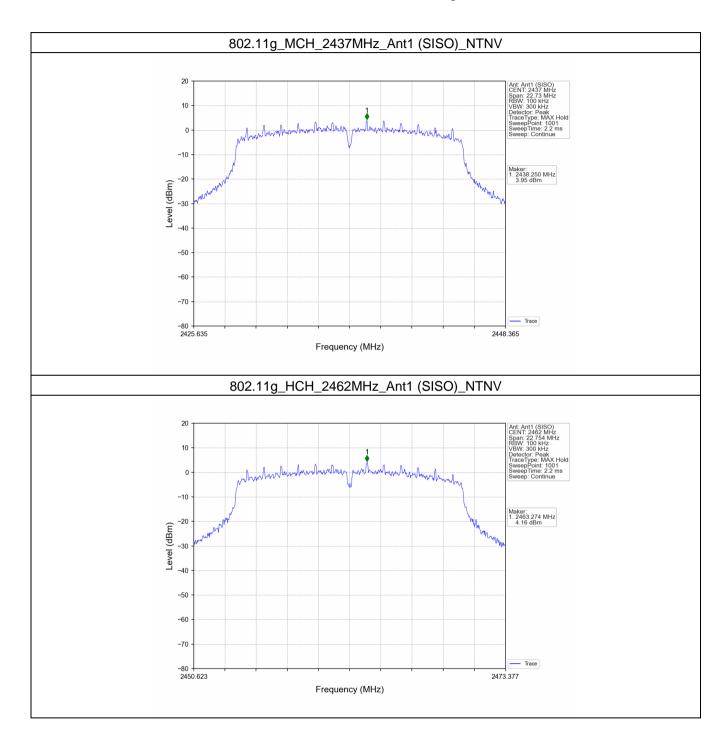




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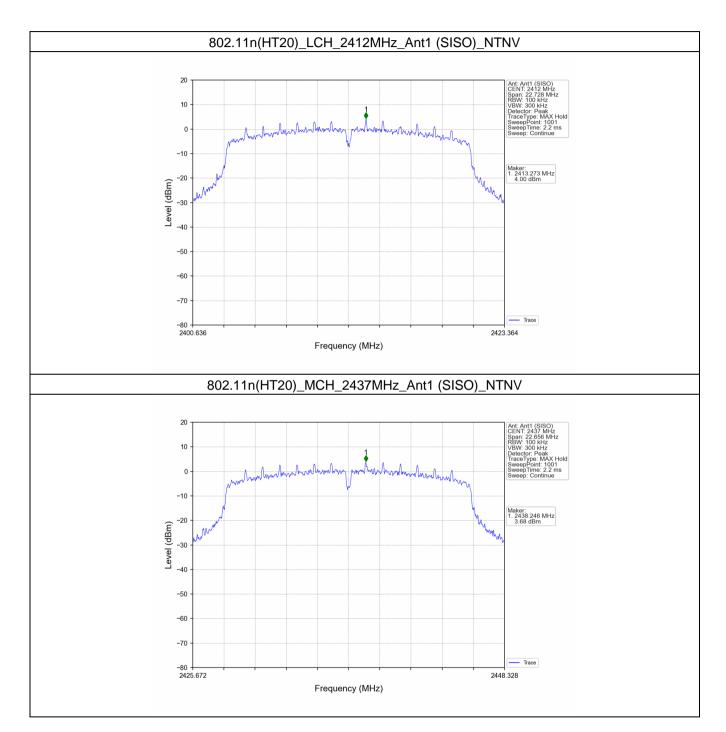




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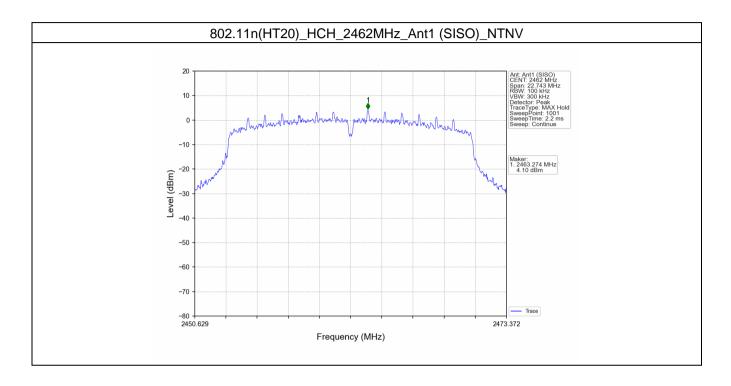




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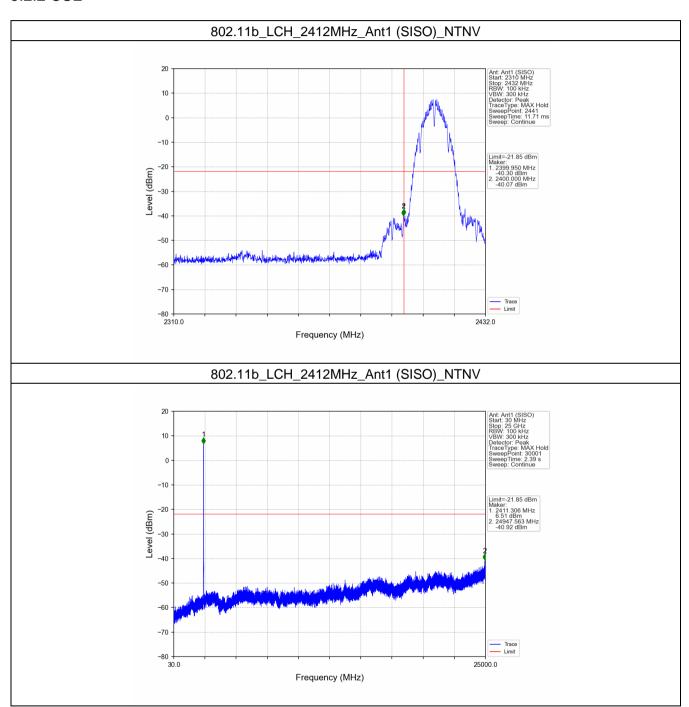


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5.2.2 CSE

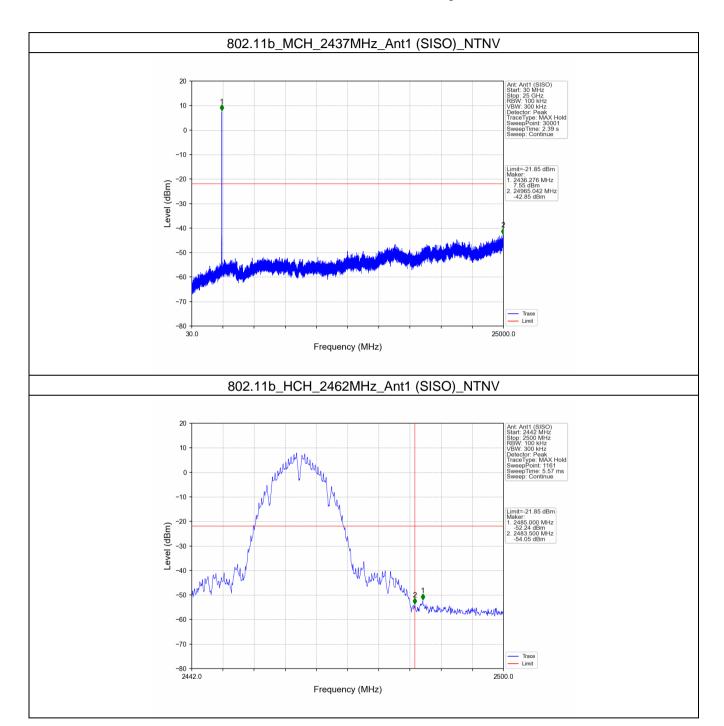




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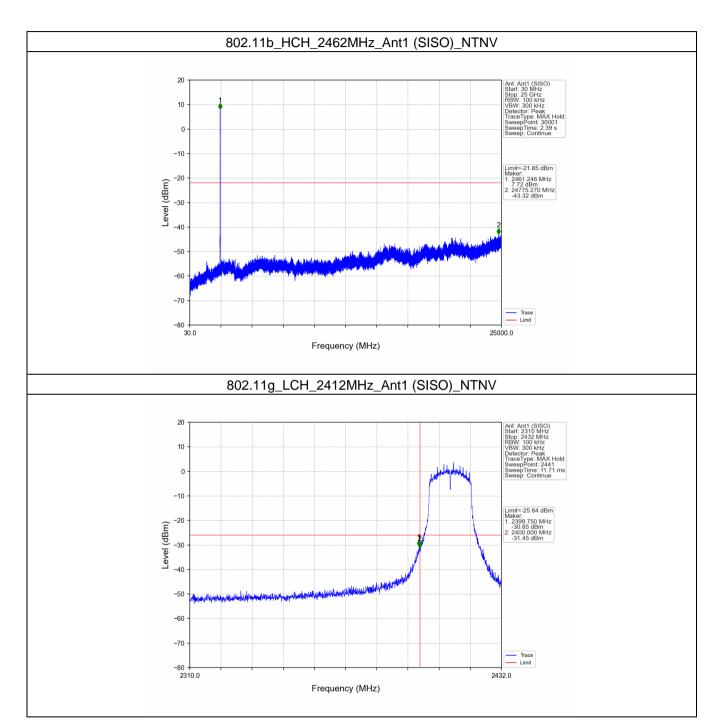




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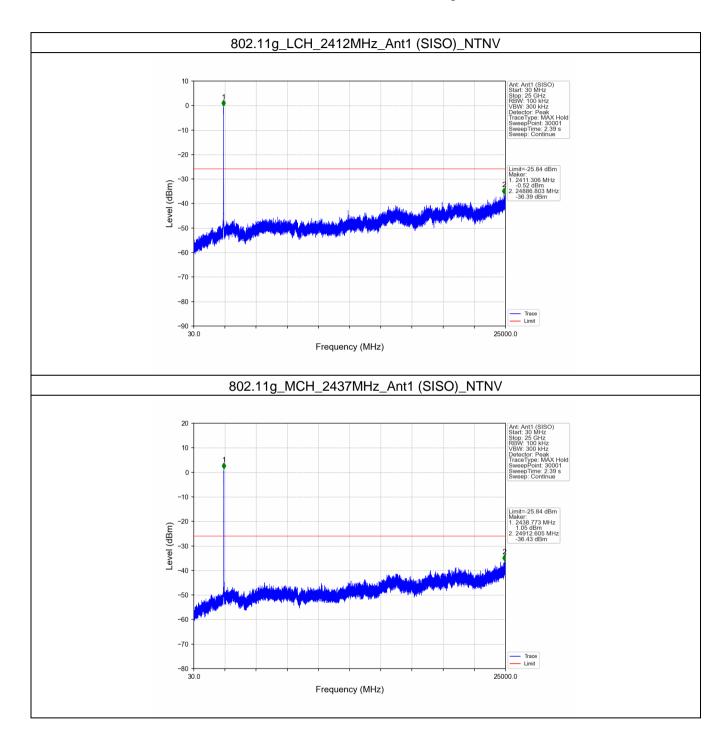




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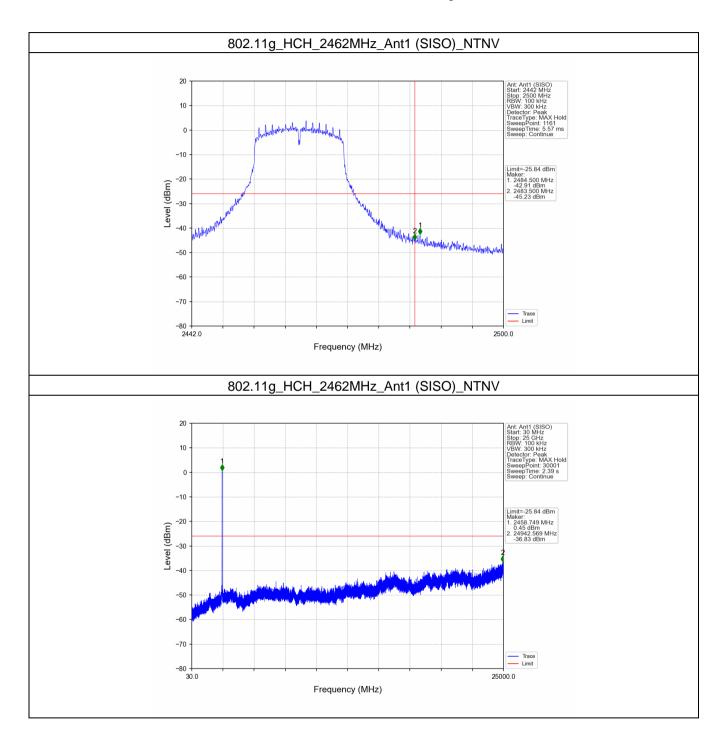




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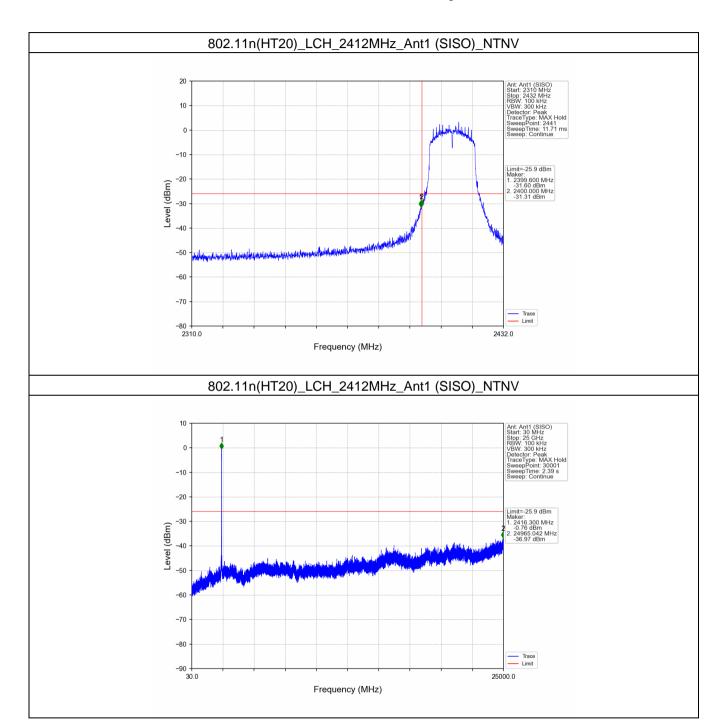




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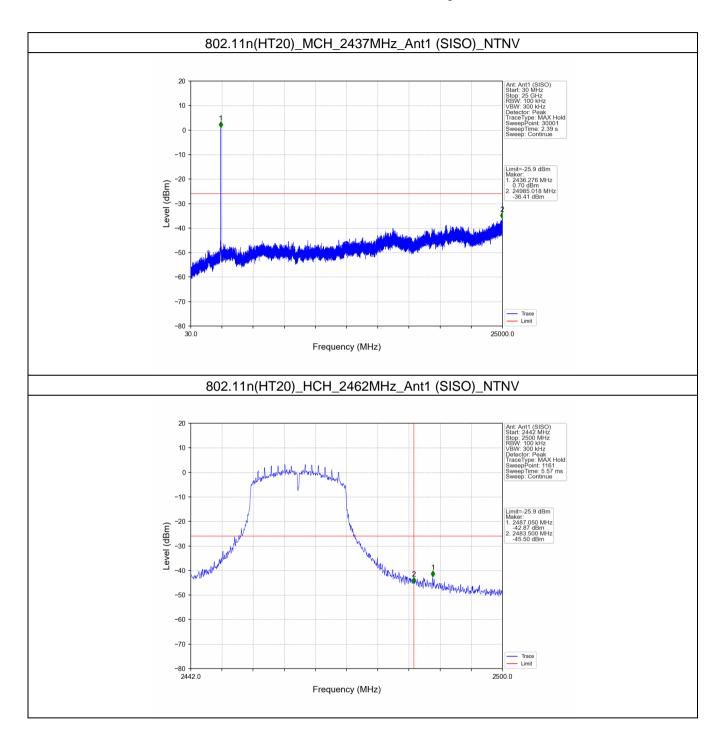




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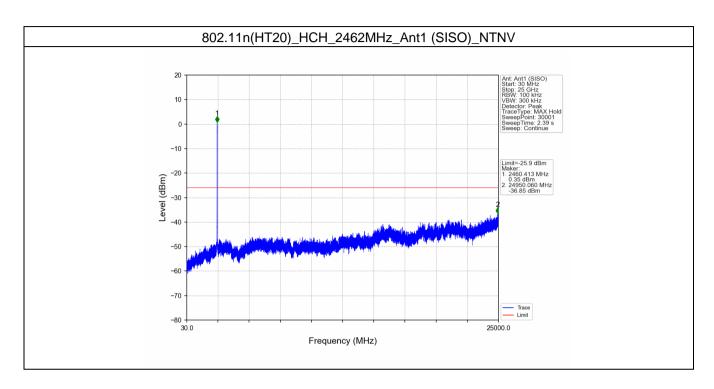




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