

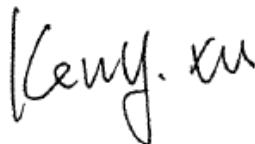
# TEST REPORT

**Application No.:** SZEM2101000587CR  
**Applicant:** JVCKENWOOD Corporation  
**Address of Applicant:** 2967-3, Ishikawa-machi Hachioji-shi, Tokyo, 192-8525, Japan  
**Manufacturer:** JVCKENWOOD Corporation  
**Address of Manufacturer:** 2967-3, Ishikawa-machi Hachioji-shi, Tokyo, 192-8525, Japan  
**Factory:** Cansonic Company Limited  
**Address of Factory:** 3/F, Building 1, Guanlan Industrial Park, Grain Group, 299 Guanping Road, Dafu Community, Guanlan South, Longhua New District, Shenzhen, China

**Equipment Under Test (EUT):**  
**EUT Name:** Dashboard Camera  
**Model No.:** DRV-A301W  
**Trade mark:** KENWOOD  
**FCC ID:** IOMDRVA301W  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2021-01-14  
**Date of Test:** 2021-01-16 to 2021-01-25  
**Date of Issue:** 2021-02-01

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu  
 EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-02-01		Original

<b>Authorized for issue by:</b>			
			
		<hr/> <b>Powell Bao/Project Engineer</b>	
			
		<hr/> <b>Eric Fu/Reviewer</b>	



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## 2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

### Remark:

Model No.: DRV-A301W

This test report (Ref. No.: SZEM210100058702) is only valid with the original test report (Ref. No.: SZEM190701591202).

According to the declaration from the applicant, the model in this report and model in original report were identical, only difference on the model in this report updated the crystal oscillator of the WIFI module.

A,D version crystal oscillator have the same basic function as the original crystal oscillator. The difference between A, D version crystal oscillator and original version is that the supplier different only, all the specification are the same.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report Conducted Peak Output Power, Conducted Spurious Emissions, Radiated Spurious Emissions were fully retested on model DRV-A301W and shown the data in this report, other tests please refer to original report SZEM190701591202.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	Input: DC5V and can be powered by car charger
Cable(s):	Micro USB Cable(Unshielded with two ferrite beads, 125cm)
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11 802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	Integral Antenna
Antenna Gain:	2dBi

### 4.2 Description of Support Units

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

The EUT has been tested as an independent unit.

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Spurious Emissions	± 4.5dB (Below 1GHz); ± 4.8dB (Above 1GHz)

Remark:  
The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR}$  (CISPR Uncertainty), so the test results  
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;  
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.  
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### 4.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



## 5 Equipment List

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20

Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer (10Hz-44GHz)	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09



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<b>Radiated Spurious Emissions below 1GHz</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

<b>General used equipment</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06



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## 6 Radio Spectrum Matter Test Results

### 6.1 Conducted Peak Output Power

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

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

Limit:

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

#### 6.1.1 E.U.T. Operation

Operating Environment:

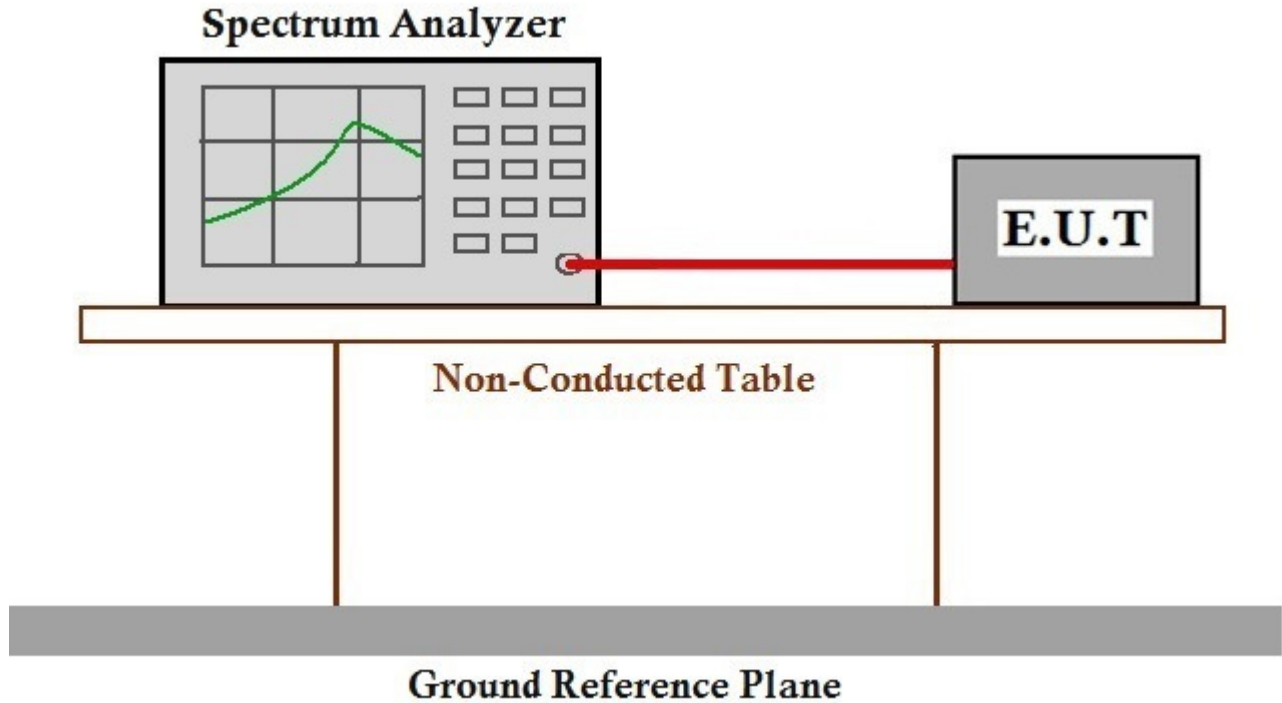
Temperature: 26.9 °C Humidity: 37.0 % RH Atmospheric Pressure: 1010 mbar

#### 6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.(For crystal oscillator A version)
Final test	05	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.(For crystal oscillator D version)



### 6.1.3 Test Setup Diagram



### 6.1.4 Measurement Procedure and Data

Please Refer To Appendix For Details



**6.2 Conducted Spurious Emissions**

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

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

Limit:

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

**6.2.1 E.U.T. Operation**

Operating Environment:

Temperature: 26.9 °C Humidity: 37.0 % RH Atmospheric Pressure: 1010 mbar

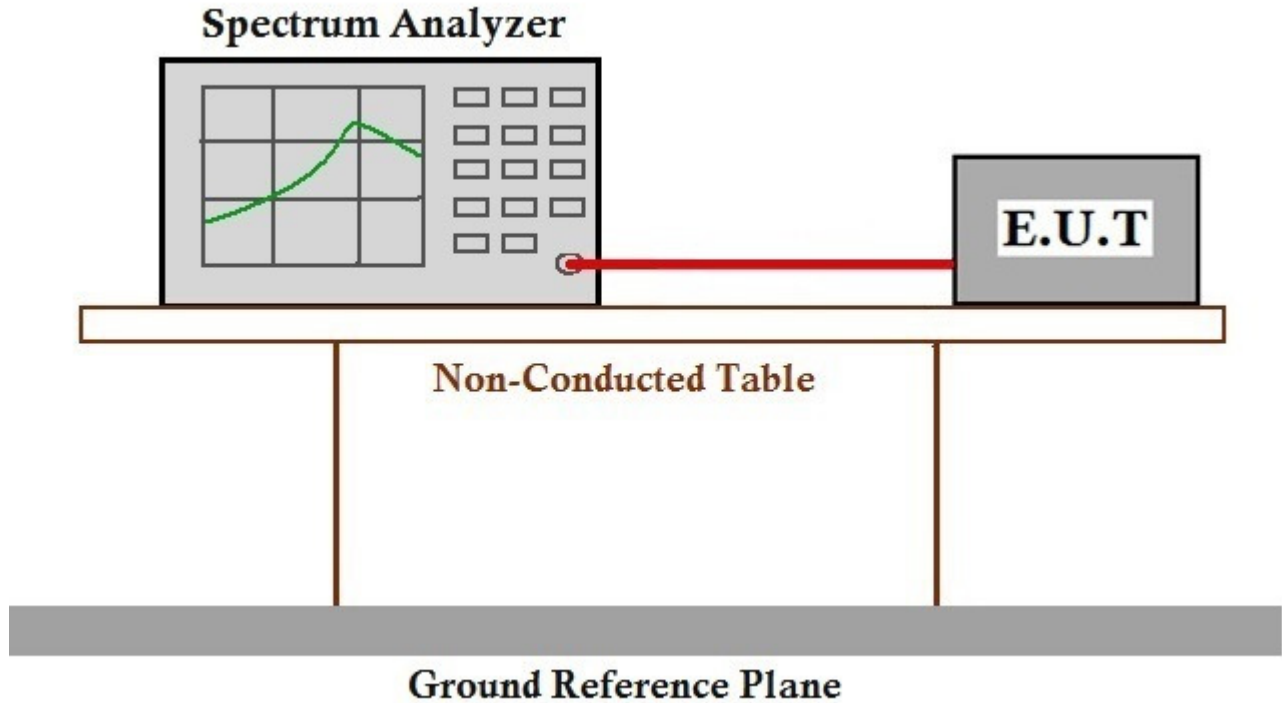
**6.2.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.(For crystal oscillator A version)
Final test	05	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.(For crystal oscillator D version)



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### 6.2.3 Test Setup Diagram



### 6.2.4 Measurement Procedure and Data

Please Refer To Appendix For Details



### 6.3 Radiated Spurious Emissions

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

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.

#### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 43.9 % RH Atmospheric Pressure: 1010 mbar

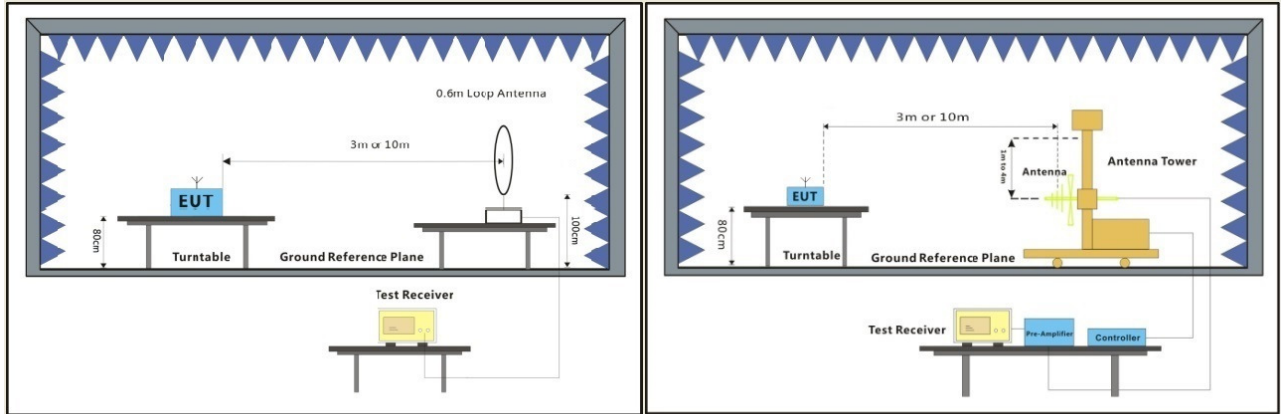
#### 6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.(For crystal oscillator A version)
Final test	05	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.(For crystal oscillator D version)



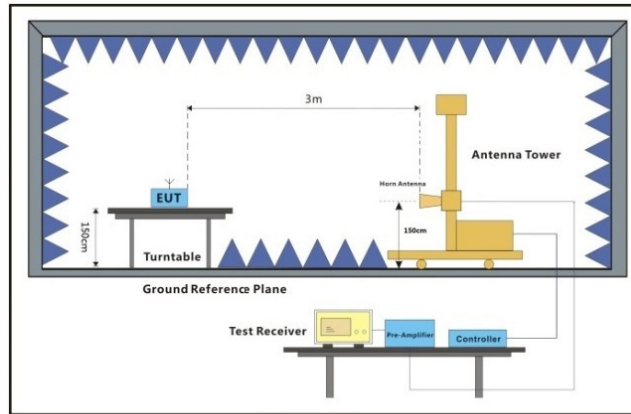
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### 6.3.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz



Above 1GHz



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**6.3.4 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:**

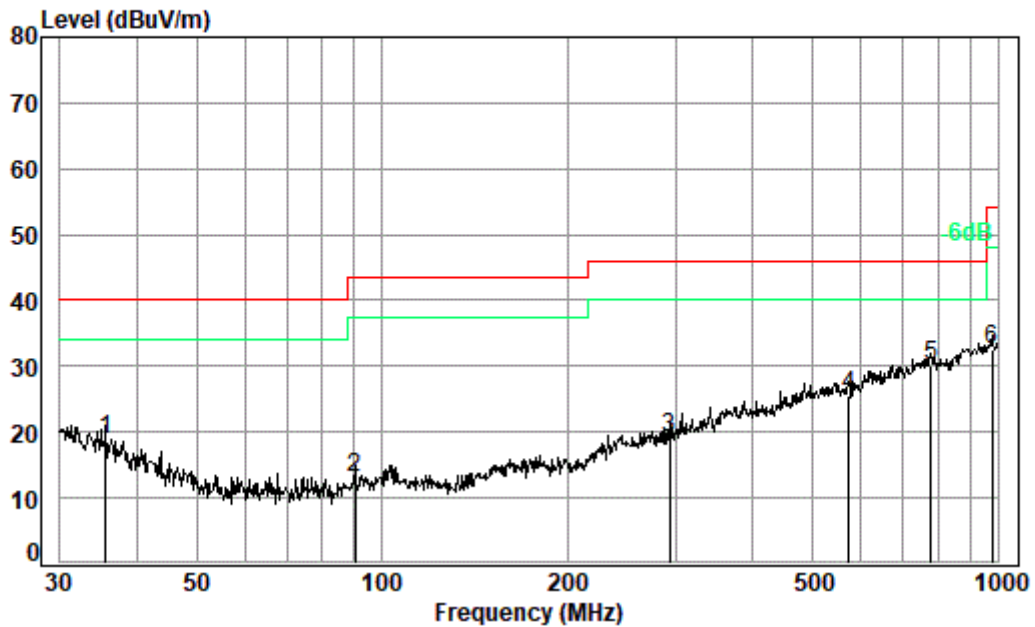
- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and 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.
- 4) 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.



30MHz~1GHz

QP value:

Mode: 00; Polarization: Horizontal



Condition: 3m HORIZONTAL  
Job No. : 00587CR/00588CR  
Test mode: 00

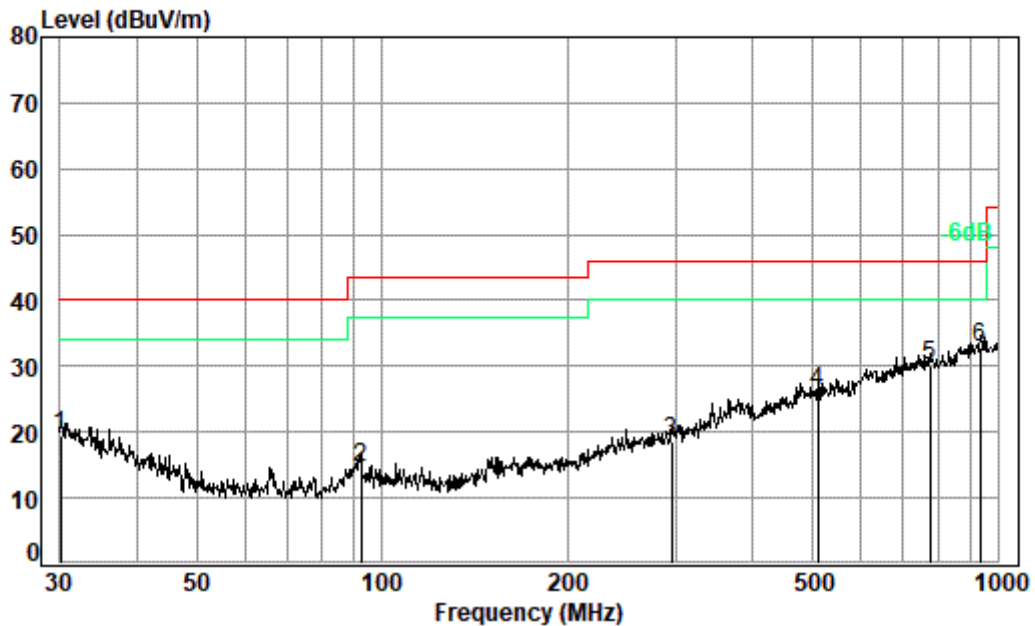
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	35.62	0.66	19.92	27.72	26.07	18.93	40.00	-21.07	QP
2	90.54	1.29	13.21	27.62	26.18	13.06	43.50	-30.44	QP
3	293.08	1.95	18.55	26.89	25.64	19.25	46.00	-26.75	QP
4	572.61	2.65	25.03	28.05	26.04	25.67	46.00	-20.33	QP
5 pp	779.61	3.22	28.10	27.77	26.46	30.01	46.00	-15.99	QP
6	979.18	3.58	29.50	26.76	26.25	32.57	54.00	-21.43	QP



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Mode: 00; Polarization: Vertical



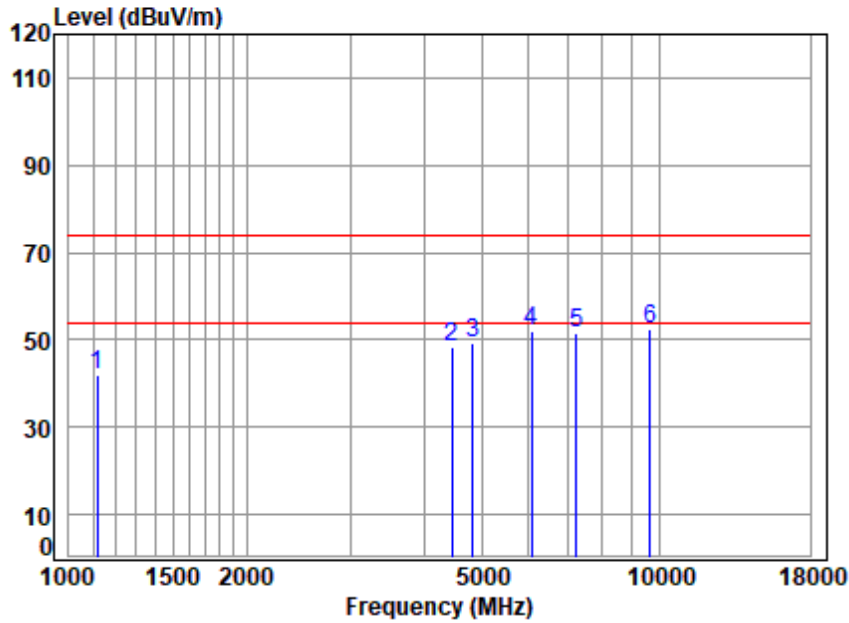
Condition: 3m VERTICAL  
Job No. : 00587CR/00588CR  
Test mode: 00

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.11	0.60	22.92	27.74	23.72	19.50	40.00	-20.50	QP
2	92.46	1.25	13.50	27.62	27.52	14.65	43.50	-28.85	QP
3	295.15	1.97	18.72	26.88	24.76	18.57	46.00	-27.43	QP
4	510.04	2.52	24.30	27.83	27.14	26.13	46.00	-19.87	QP
5	776.88	3.21	28.07	27.77	26.51	30.02	46.00	-15.98	QP
6 pp	935.55	3.54	29.20	26.98	27.02	32.78	46.00	-13.22	QP



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



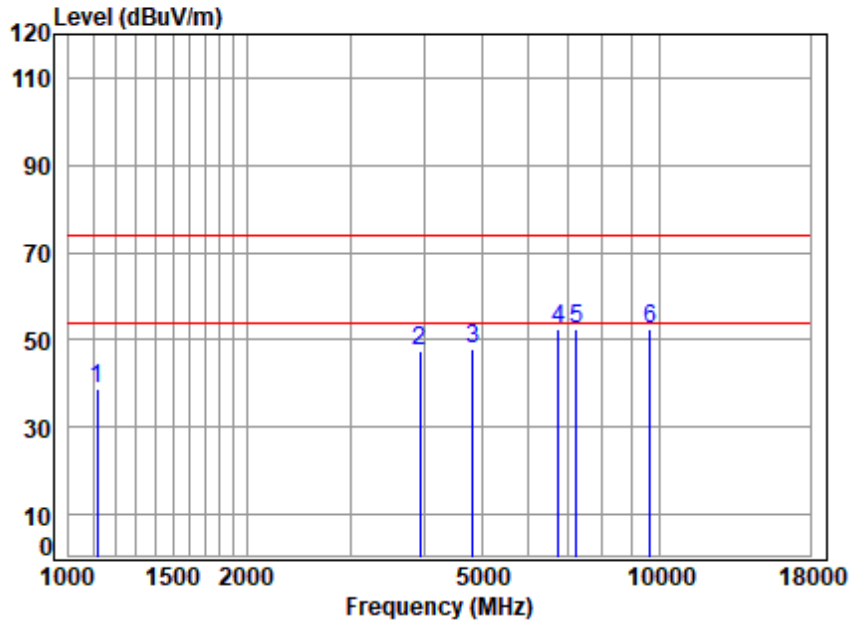
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2412 TX SE  
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	54.82	41.92	74.00	-32.08 peak
2	4456.315	6.72	33.53	41.84	50.17	48.58	74.00	-25.42 peak
3	4824.000	7.12	34.00	42.16	50.14	49.10	74.00	-24.90 peak
4	6071.417	8.26	35.17	42.35	51.08	52.16	74.00	-21.84 peak
5	7236.000	8.77	36.09	41.48	48.27	51.65	74.00	-22.35 peak
6	9648.000	10.79	37.69	37.69	41.59	52.38	74.00	-21.62 peak



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



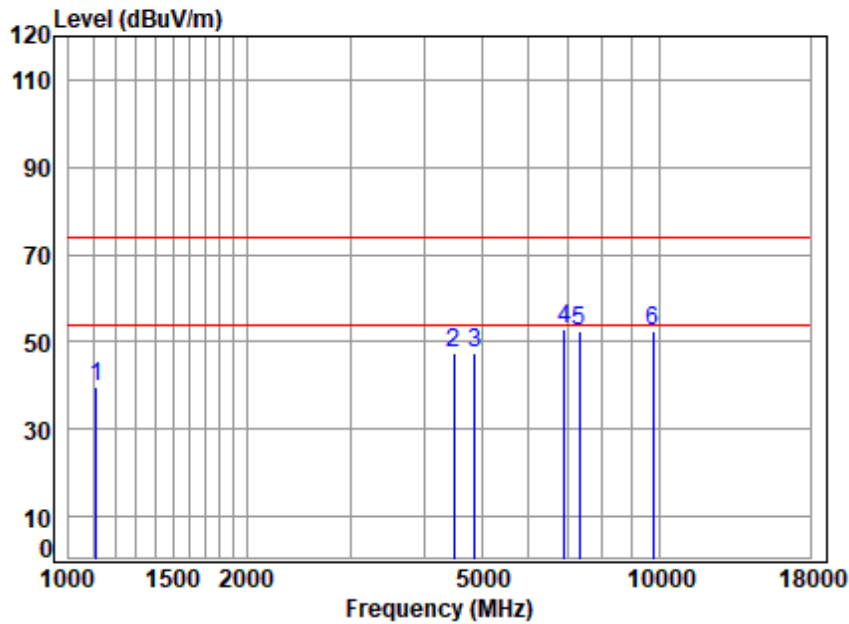
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2412 TX SE  
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	51.85	38.95	74.00	-35.05	peak
2	3935.493	6.19	32.58	41.36	49.86	47.27	74.00	-26.73	peak
3	4824.000	7.12	34.00	42.16	49.06	48.02	74.00	-25.98	peak
4	6756.708	8.42	35.76	41.86	50.03	52.35	74.00	-21.65	peak
5	7236.000	8.77	36.09	41.48	49.23	52.61	74.00	-21.39	peak
6	9648.000	10.79	37.69	37.69	41.78	52.57	74.00	-21.43	peak



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



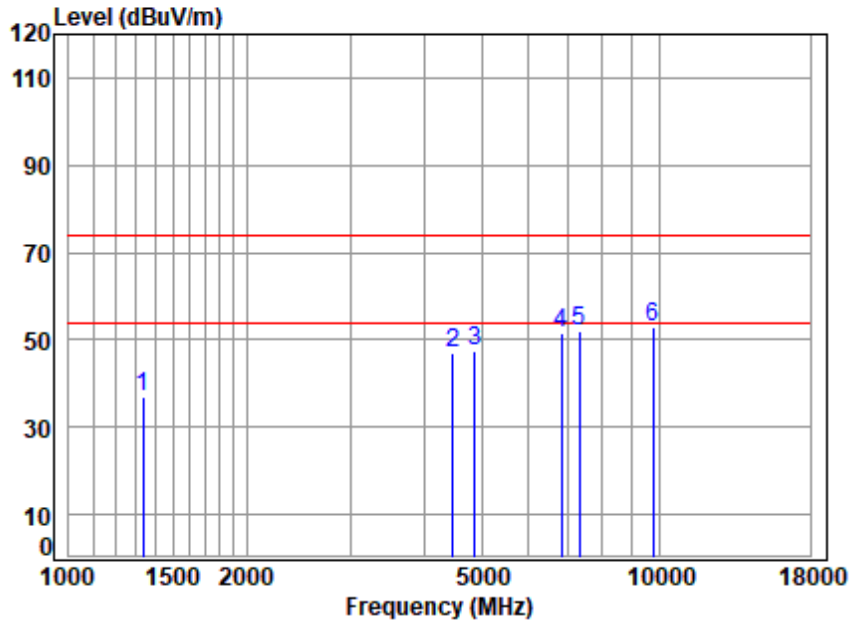
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX SE  
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1112.872	2.60	24.18	39.69	52.70	39.79	74.00	-34.21	peak
2	4482.150	6.74	33.57	41.86	49.12	47.57	74.00	-26.43	peak
3	4874.000	7.17	34.05	42.20	48.23	47.25	74.00	-26.75	peak
4	6914.763	8.50	35.85	41.76	50.27	52.86	74.00	-21.14	peak
5	7311.000	8.84	36.15	41.41	48.70	52.28	74.00	-21.72	peak
6	9748.000	10.76	37.75	37.52	41.70	52.69	74.00	-21.31	peak



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



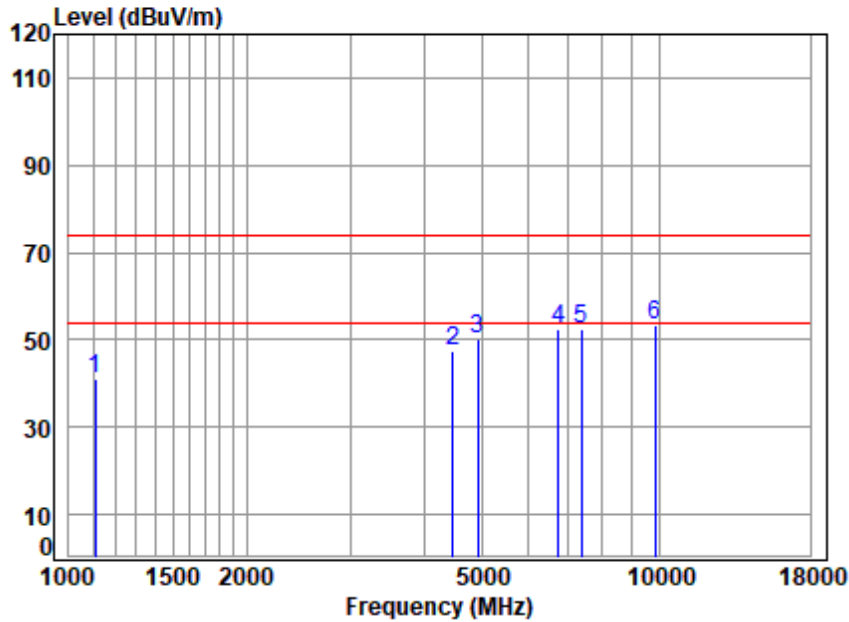
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX SE  
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	3.00	25.17	39.85	48.82	37.14	74.00	-36.86	peak
2	4469.214	6.73	33.55	41.85	48.37	46.80	74.00	-27.20	peak
3	4874.000	7.17	34.05	42.20	48.66	47.68	74.00	-26.32	peak
4	6815.551	8.45	35.79	41.82	49.10	51.52	74.00	-22.48	peak
5	7311.000	8.84	36.15	41.41	48.48	52.06	74.00	-21.94	peak
6	9748.000	10.76	37.75	37.52	42.12	53.11	74.00	-20.89	peak



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



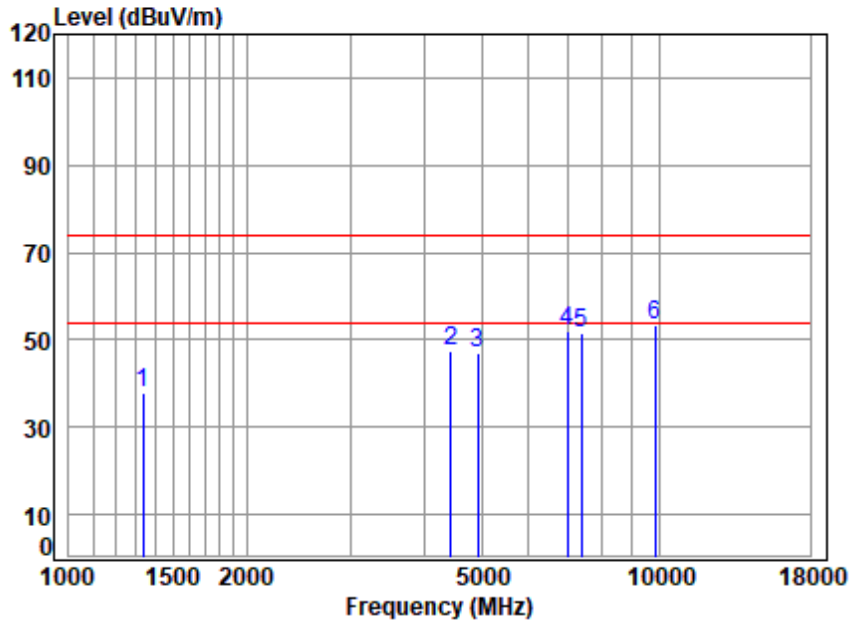
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2462 TX SE  
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1109.660	2.59	24.16	39.69	54.16	41.22	74.00	-32.78	peak
2	4469.214	6.73	33.55	41.85	48.81	47.24	74.00	-26.76	peak
3	4924.000	7.22	34.11	42.24	51.22	50.31	74.00	-23.69	peak
4	6737.207	8.41	35.75	41.87	49.95	52.24	74.00	-21.76	peak
5	7386.000	8.91	36.21	41.34	48.77	52.55	74.00	-21.45	peak
6	9848.000	10.73	37.81	37.35	42.01	53.20	74.00	-20.80	peak



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



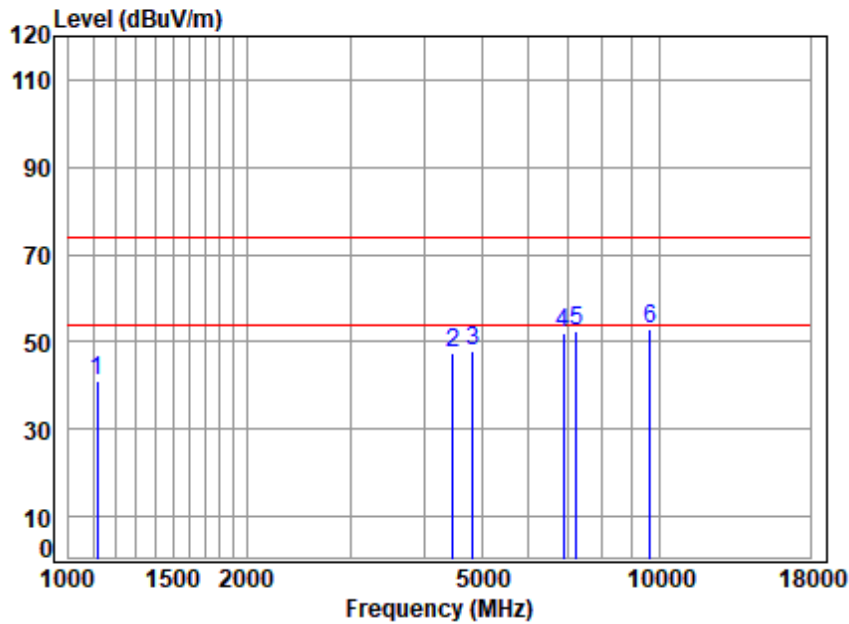
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2462 TX SE  
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	3.00	25.17	39.85	49.68	38.00	74.00	-36.00	peak
2	4443.453	6.71	33.50	41.82	49.17	47.56	74.00	-26.44	peak
3	4924.000	7.22	34.11	42.24	47.94	47.03	74.00	-26.97	peak
4	6995.172	8.54	35.90	41.70	49.34	52.08	74.00	-21.92	peak
5	7386.000	8.91	36.21	41.34	47.86	51.64	74.00	-22.36	peak
6	9848.000	10.73	37.81	37.35	42.08	53.27	74.00	-20.73	peak



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



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2412 TX SE  
 Note : 2.4G WIFI 11G

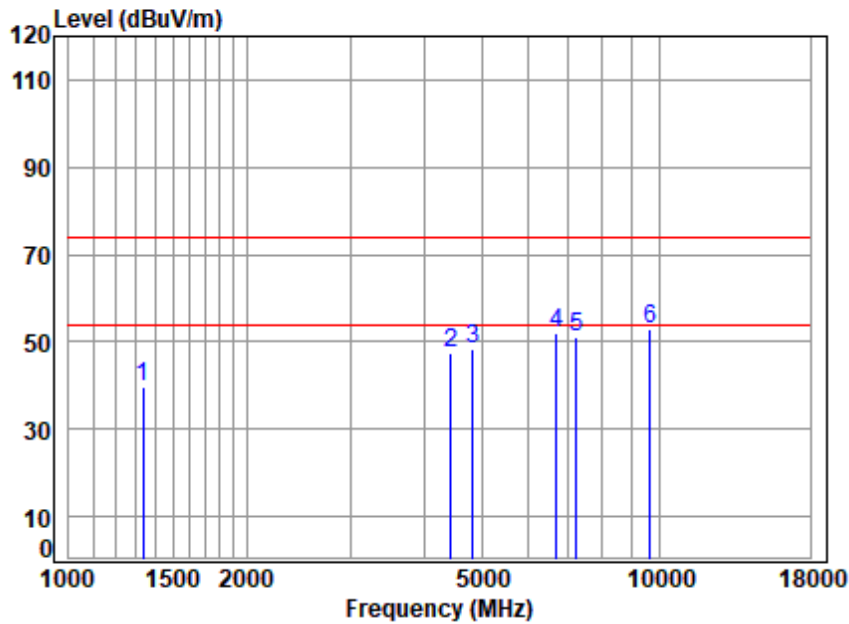
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	53.76	40.86	74.00	-33.14	peak
2	4469.214	6.73	33.55	41.85	49.06	47.49	74.00	-26.51	peak
3	4824.000	7.12	34.00	42.16	49.12	48.08	74.00	-25.92	peak
4	6874.906	8.48	35.83	41.78	49.47	52.00	74.00	-22.00	peak
5	7236.000	8.77	36.09	41.48	49.10	52.48	74.00	-21.52	peak
6	9648.000	10.79	37.69	37.69	42.22	53.01	74.00	-20.99	peak



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



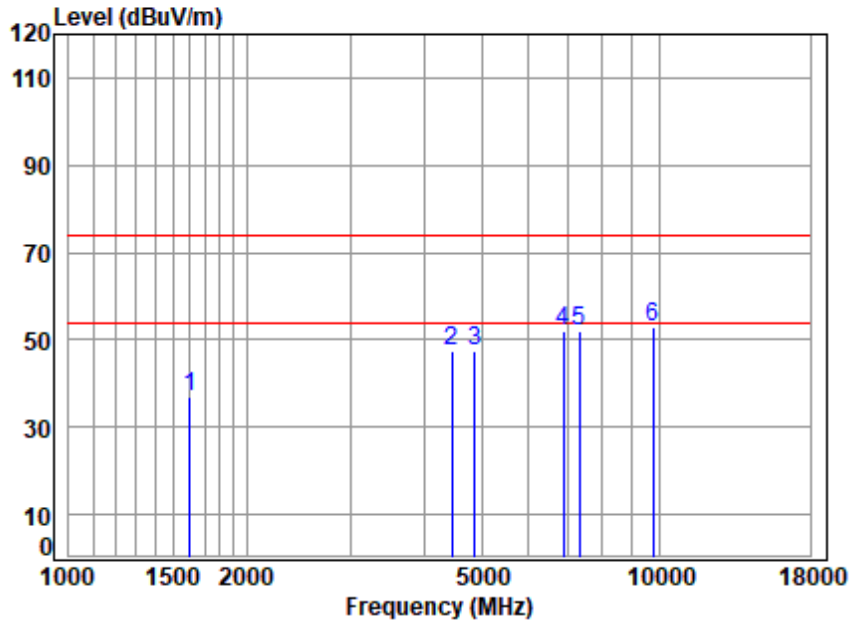
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2412 TX SE  
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	3.00	25.17	39.85	51.39	39.71	74.00	-34.29	peak
2	4430.628	6.70	33.48	41.81	48.97	47.34	74.00	-26.66	peak
3	4824.000	7.12	34.00	42.16	49.45	48.41	74.00	-25.59	peak
4	6698.373	8.39	35.72	41.90	49.78	51.99	74.00	-22.01	peak
5	7236.000	8.77	36.09	41.48	47.63	51.01	74.00	-22.99	peak
6	9648.000	10.79	37.69	37.69	42.09	52.88	74.00	-21.12	peak



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



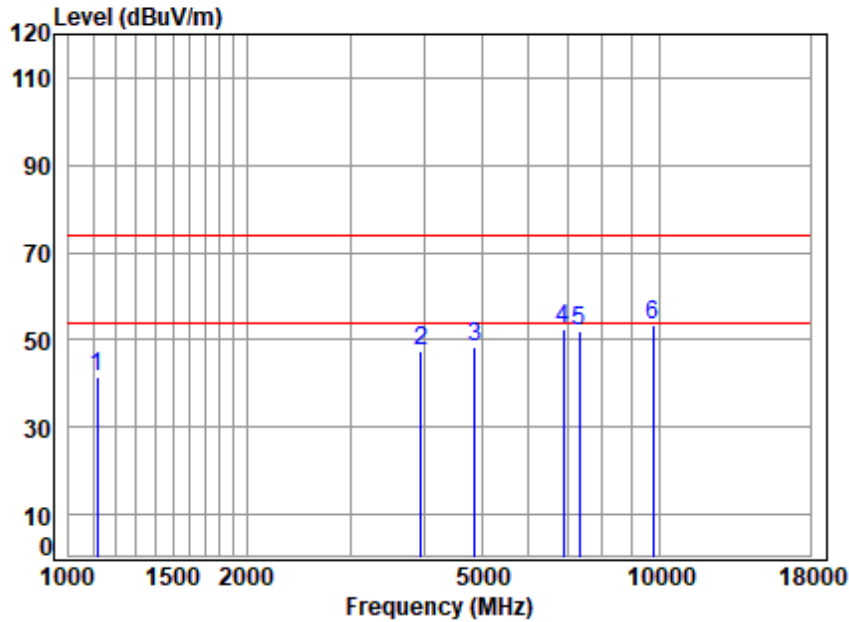
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX SE  
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.804	3.35	26.26	40.01	47.36	36.96	74.00	-37.04	peak
2	4456.315	6.72	33.53	41.84	49.23	47.64	74.00	-26.36	peak
3	4874.000	7.17	34.05	42.20	48.29	47.31	74.00	-26.69	peak
4	6874.906	8.48	35.83	41.78	49.62	52.15	74.00	-21.85	peak
5	7311.000	8.84	36.15	41.41	48.39	51.97	74.00	-22.03	peak
6	9748.000	10.76	37.75	37.52	41.82	52.81	74.00	-21.19	peak



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



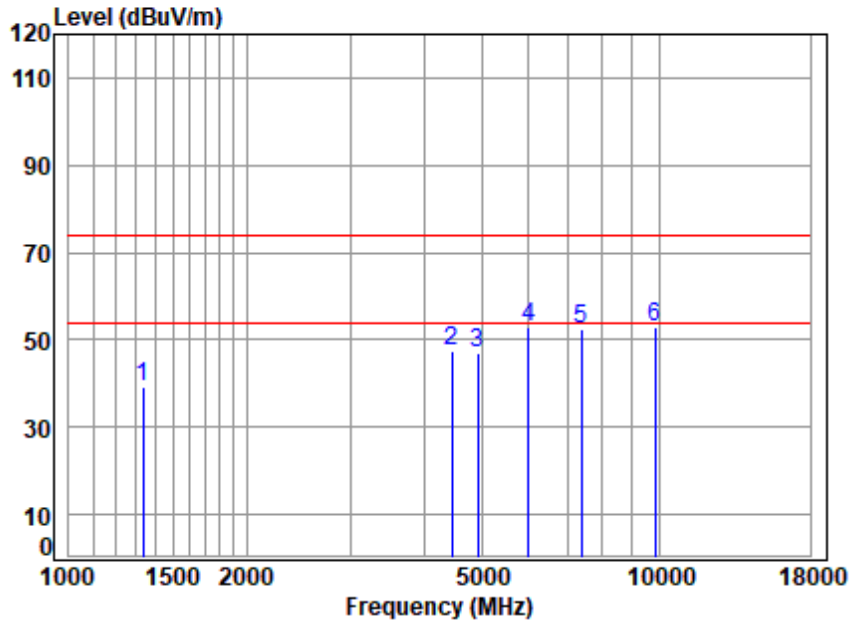
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX SE  
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	54.61	41.71	74.00	-32.29	peak
2	3946.885	6.20	32.60	41.37	50.19	47.62	74.00	-26.38	peak
3	4874.000	7.17	34.05	42.20	49.42	48.44	74.00	-25.56	peak
4	6874.906	8.48	35.83	41.78	50.07	52.60	74.00	-21.40	peak
5	7311.000	8.84	36.15	41.41	48.59	52.17	74.00	-21.83	peak
6	9748.000	10.76	37.75	37.52	42.22	53.21	74.00	-20.79	peak



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



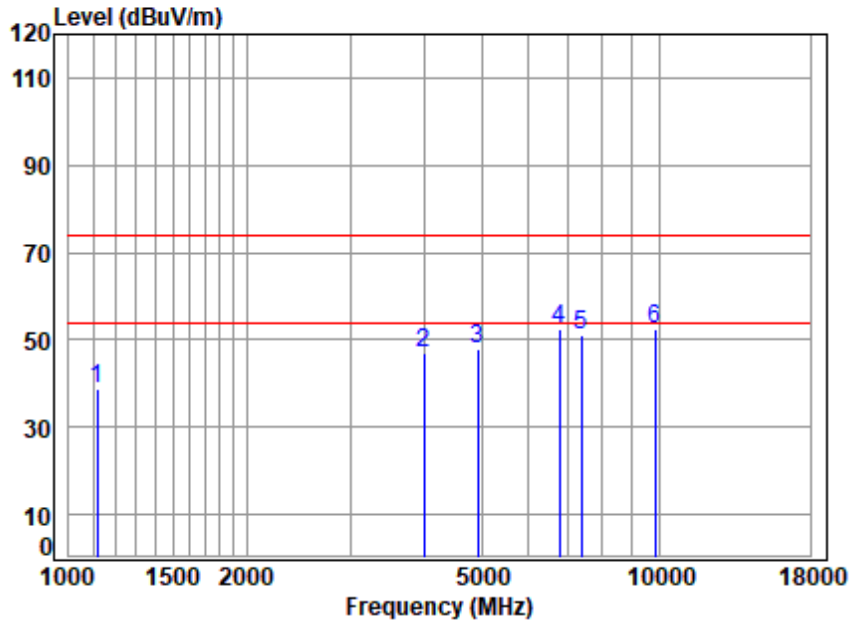
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2462 TX SE  
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	3.00	25.17	39.85	50.91	39.23	74.00	-34.77	peak
2	4456.315	6.72	33.53	41.84	49.09	47.50	74.00	-26.50	peak
3	4924.000	7.22	34.11	42.24	47.92	47.01	74.00	-26.99	peak
4	6001.626	8.26	35.10	42.40	51.91	52.87	74.00	-21.13	peak
5	7386.000	8.91	36.21	41.34	48.69	52.47	74.00	-21.53	peak
6	9848.000	10.73	37.81	37.35	41.59	52.78	74.00	-21.22	peak



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



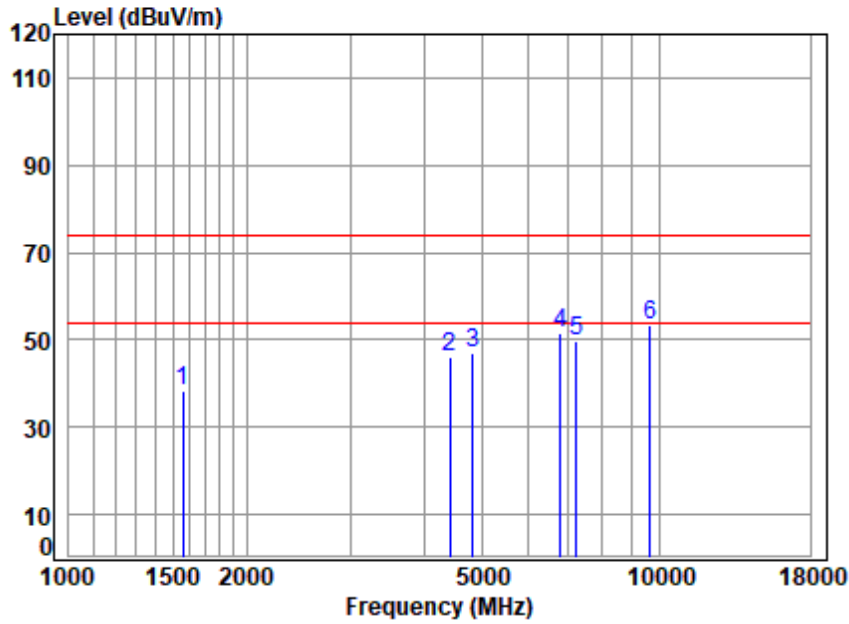
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2462 TX SE  
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	51.56	38.66	74.00	-35.34	peak
2	3992.781	6.27	32.69	41.40	49.51	47.07	74.00	-26.93	peak
3	4924.000	7.22	34.11	42.24	49.02	48.11	74.00	-25.89	peak
4	6776.265	8.43	35.77	41.85	50.22	52.57	74.00	-21.43	peak
5	7386.000	8.91	36.21	41.34	47.55	51.33	74.00	-22.67	peak
6	9848.000	10.73	37.81	37.35	41.43	52.62	74.00	-21.38	peak



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



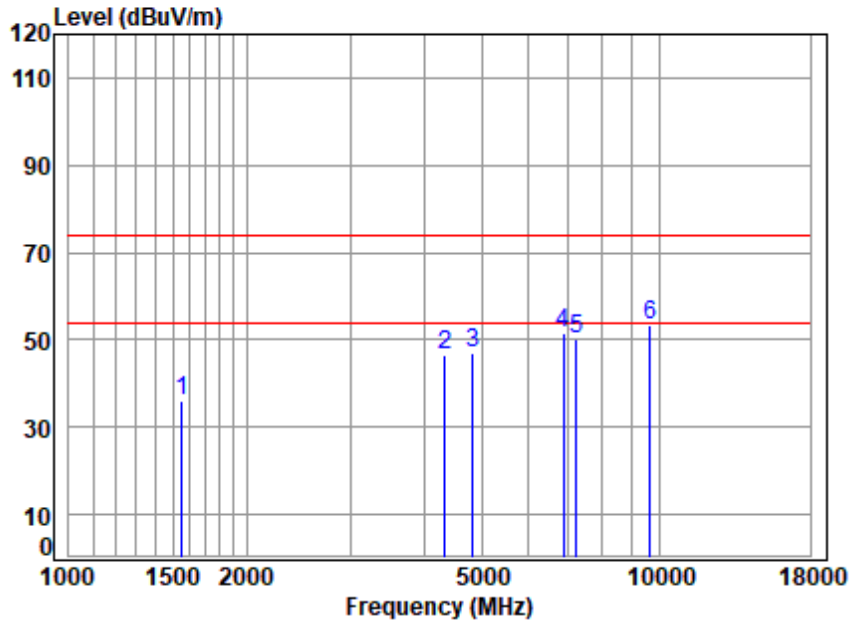
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2412 TX SE  
 Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1560.673	3.31	26.08	39.99	48.95	38.35	74.00	-35.65	peak
2	4417.841	6.68	33.46	41.80	47.73	46.07	74.00	-27.93	peak
3	4824.000	7.12	34.00	42.16	48.18	47.14	74.00	-26.86	peak
4	6795.879	8.44	35.78	41.83	49.08	51.47	74.00	-22.53	peak
5	7236.000	8.77	36.09	41.48	46.30	49.68	74.00	-24.32	peak
6	9648.000	10.79	37.69	37.69	42.54	53.33	74.00	-20.67	peak



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



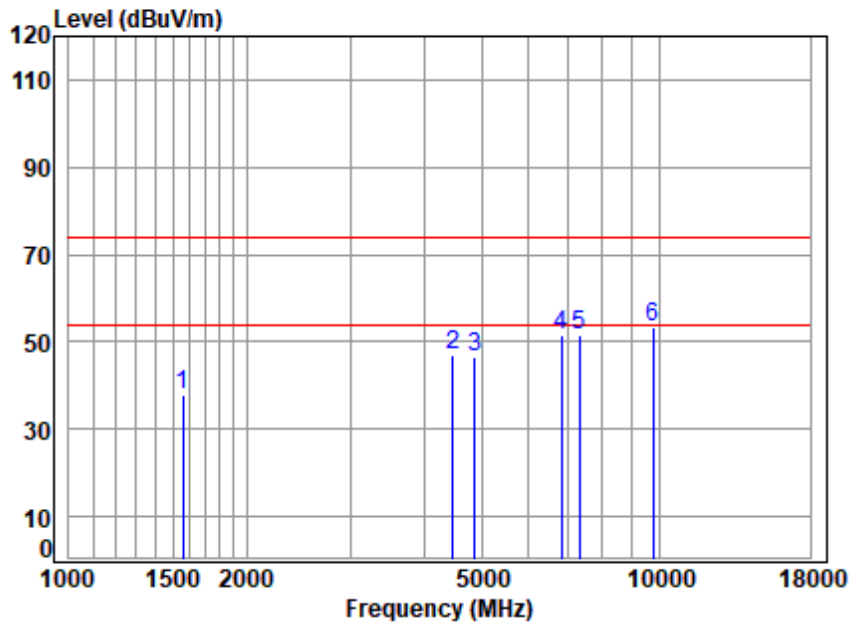
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2412 TX SE  
 Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1551.677	3.31	26.04	39.98	46.90	36.27	74.00	-37.73	peak
2	4341.886	6.61	33.33	41.73	48.47	46.68	74.00	-27.32	peak
3	4824.000	7.12	34.00	42.16	48.13	47.09	74.00	-26.91	peak
4	6874.906	8.48	35.83	41.78	49.03	51.56	74.00	-22.44	peak
5	7236.000	8.77	36.09	41.48	46.68	50.06	74.00	-23.94	peak
6	9648.000	10.79	37.69	37.69	42.40	53.19	74.00	-20.81	peak



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



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX SE  
 Note : 2.4G WIFI 11N20

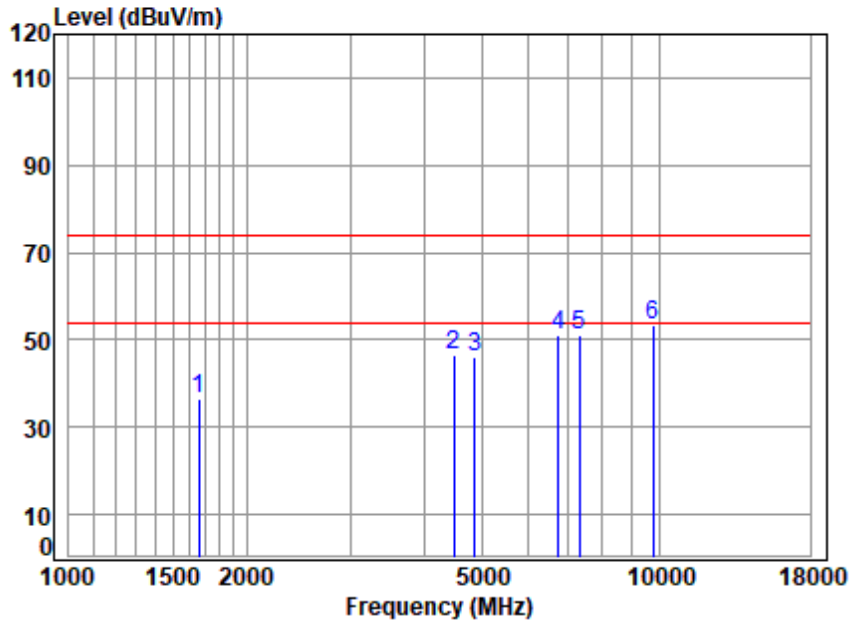
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1560.673	3.31	26.08	39.99	48.26	37.66	74.00	-36.34	peak
2	4469.214	6.73	33.55	41.85	48.53	46.96	74.00	-27.04	peak
3	4874.000	7.17	34.05	42.20	47.31	46.33	74.00	-27.67	peak
4	6835.278	8.46	35.80	41.81	49.10	51.55	74.00	-22.45	peak
5	7311.000	8.84	36.15	41.41	47.97	51.55	74.00	-22.45	peak
6	9748.000	10.76	37.75	37.52	42.30	53.29	74.00	-20.71	peak



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



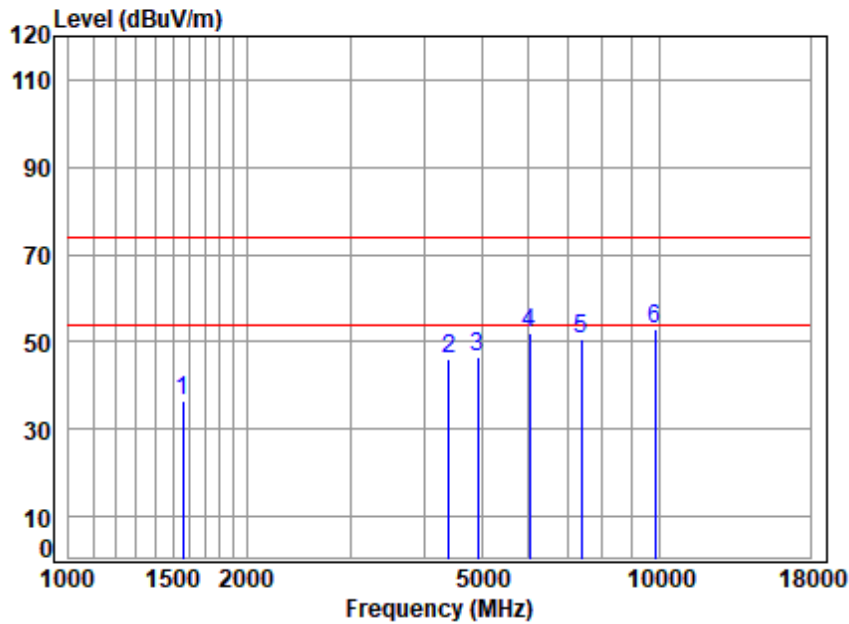
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX SE  
 Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	3.40	26.50	40.04	46.44	36.30	74.00	-37.70	peak
2	4482.150	6.74	33.57	41.86	48.20	46.65	74.00	-27.35	peak
3	4874.000	7.17	34.05	42.20	47.03	46.05	74.00	-27.95	peak
4	6756.708	8.42	35.76	41.86	48.68	51.00	74.00	-23.00	peak
5	7311.000	8.84	36.15	41.41	47.39	50.97	74.00	-23.03	peak
6	9748.000	10.76	37.75	37.52	42.43	53.42	74.00	-20.58	peak



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



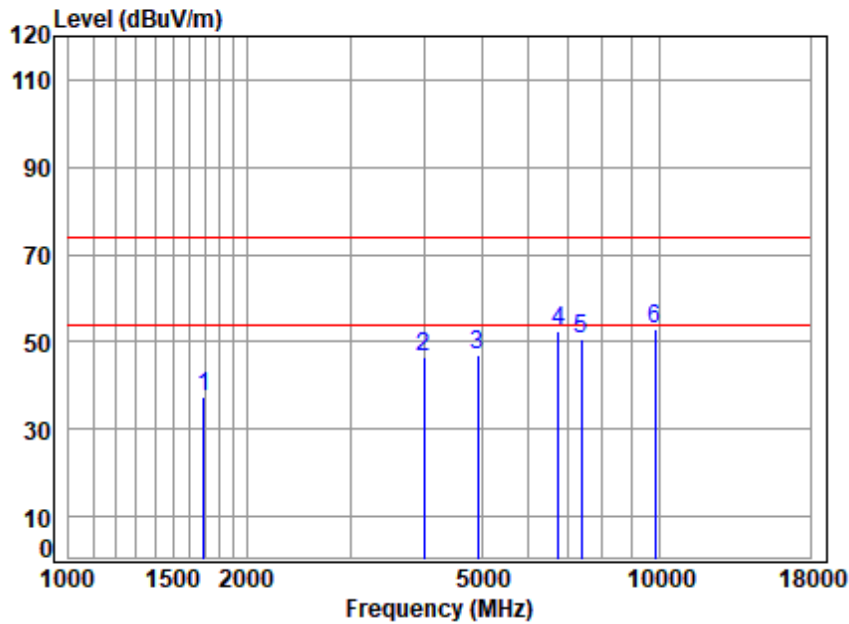
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2462 TX SE  
 Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1560.673	3.31	26.08	39.99	47.28	36.68	74.00	-37.32	peak
2	4405.090	6.67	33.44	41.79	47.93	46.25	74.00	-27.75	peak
3	4924.000	7.22	34.11	42.24	47.55	46.64	74.00	-27.36	peak
4	6018.999	8.26	35.12	42.39	50.86	51.85	74.00	-22.15	peak
5	7386.000	8.91	36.21	41.34	47.07	50.85	74.00	-23.15	peak
6	9848.000	10.73	37.81	37.35	41.78	52.97	74.00	-21.03	peak



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



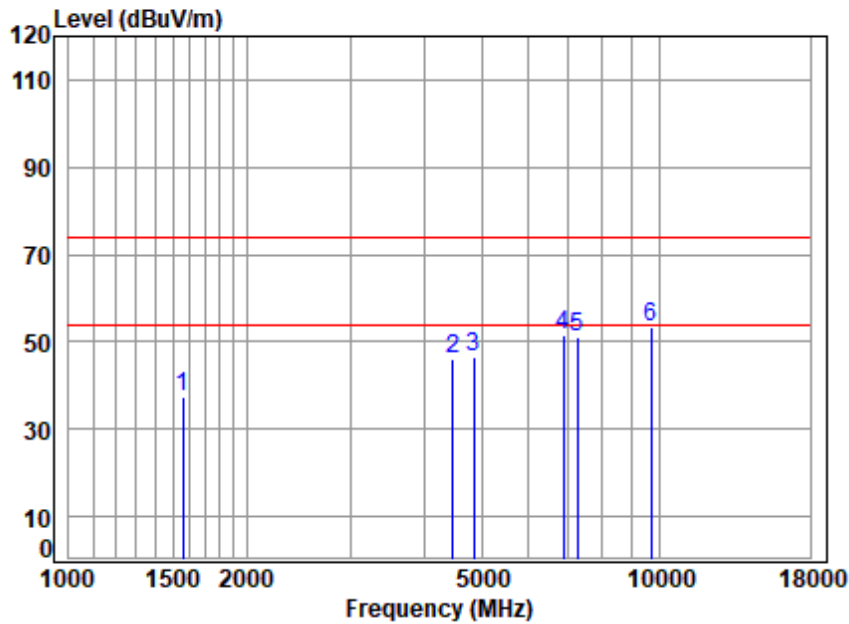
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2462 TX SE  
 Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.231	3.42	26.64	40.06	47.26	37.26	74.00	-36.74	peak
2	3992.781	6.27	32.69	41.40	48.99	46.55	74.00	-27.45	peak
3	4924.000	7.22	34.11	42.24	47.88	46.97	74.00	-27.03	peak
4	6737.207	8.41	35.75	41.87	50.09	52.38	74.00	-21.62	peak
5	7386.000	8.91	36.21	41.34	46.73	50.51	74.00	-23.49	peak
6	9848.000	10.73	37.81	37.35	41.66	52.85	74.00	-21.15	peak



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



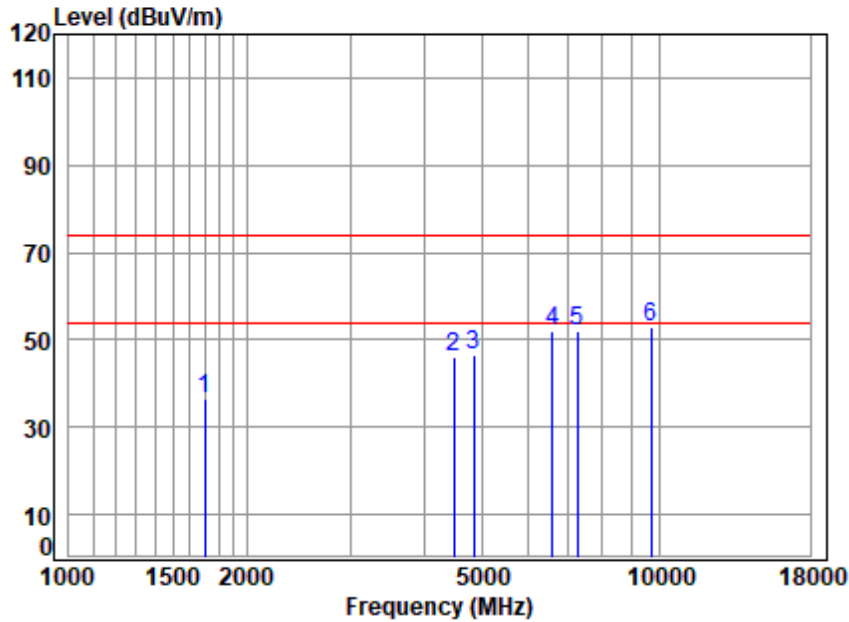
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2422 TX SE  
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1560.673	3.31	26.08	39.99	47.95	37.35	74.00	-36.65	peak
2	4469.214	6.73	33.55	41.85	47.43	45.86	74.00	-28.14	peak
3	4844.000	7.14	34.02	42.17	47.57	46.56	74.00	-27.44	peak
4	6874.906	8.48	35.83	41.78	48.98	51.51	74.00	-22.49	peak
5	7266.000	8.79	36.12	41.45	47.43	50.89	74.00	-23.11	peak
6	9688.000	10.78	37.71	37.63	42.58	53.44	74.00	-20.56	peak



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



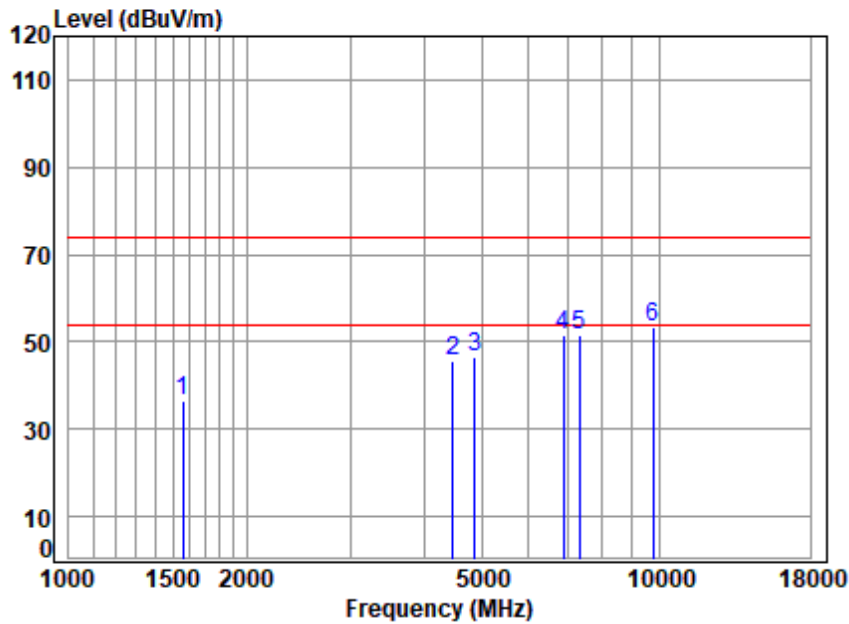
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2422 TX SE  
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	3.43	26.68	40.06	46.64	36.69	74.00	-37.31	peak
2	4482.150	6.74	33.57	41.86	47.84	46.29	74.00	-27.71	peak
3	4844.000	7.14	34.02	42.17	47.47	46.46	74.00	-27.54	peak
4	6602.265	8.33	35.66	41.97	49.94	51.96	74.00	-22.04	peak
5	7266.000	8.79	36.12	41.45	48.74	52.20	74.00	-21.80	peak
6	9688.000	10.78	37.71	37.63	42.04	52.90	74.00	-21.10	peak



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



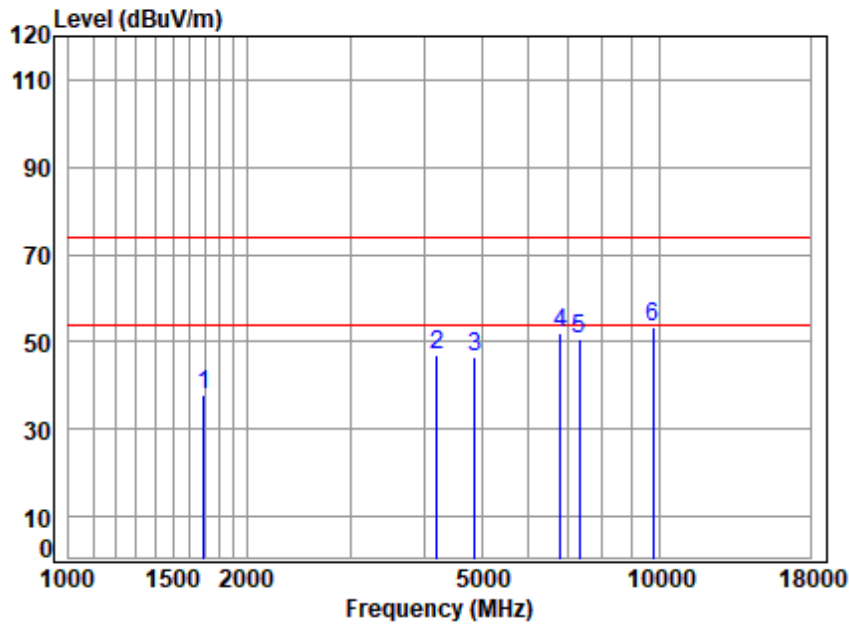
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX SE  
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1560.673	3.31	26.08	39.99	47.08	36.48	74.00	-37.52	peak
2	4469.214	6.73	33.55	41.85	47.26	45.69	74.00	-28.31	peak
3	4874.000	7.17	34.05	42.20	47.30	46.32	74.00	-27.68	peak
4	6874.906	8.48	35.83	41.78	48.85	51.38	74.00	-22.62	peak
5	7311.000	8.84	36.15	41.41	48.07	51.65	74.00	-22.35	peak
6	9748.000	10.76	37.75	37.52	42.30	53.29	74.00	-20.71	peak



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



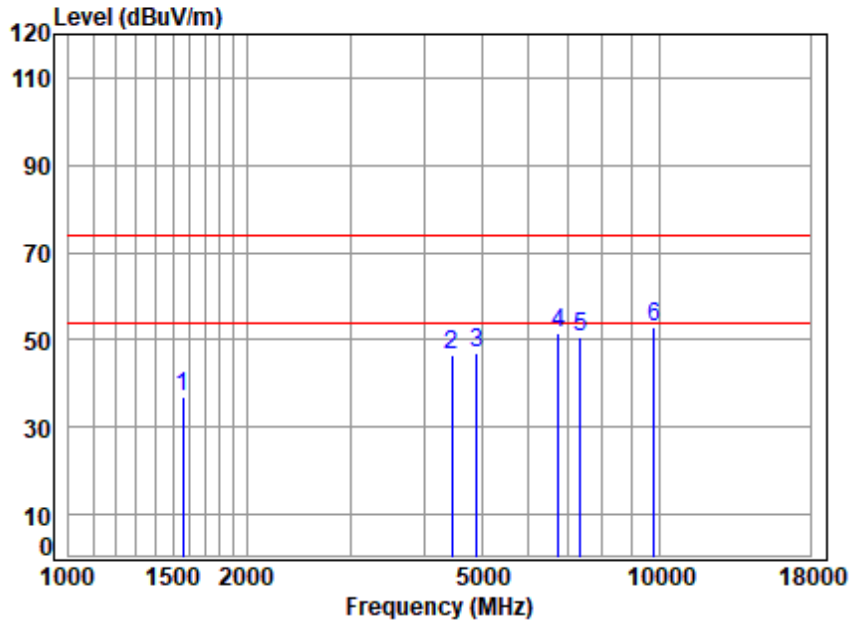
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX SE  
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.231	3.42	26.64	40.06	47.78	37.78	74.00	-36.22	peak
2	4193.872	6.47	33.06	41.59	48.96	46.90	74.00	-27.10	peak
3	4874.000	7.17	34.05	42.20	47.40	46.42	74.00	-27.58	peak
4	6795.879	8.44	35.78	41.83	49.40	51.79	74.00	-22.21	peak
5	7311.000	8.84	36.15	41.41	47.05	50.63	74.00	-23.37	peak
6	9748.000	10.76	37.75	37.52	42.44	53.43	74.00	-20.57	peak



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



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2452 TX SE  
 Note : 2.4G WIFI 11N40

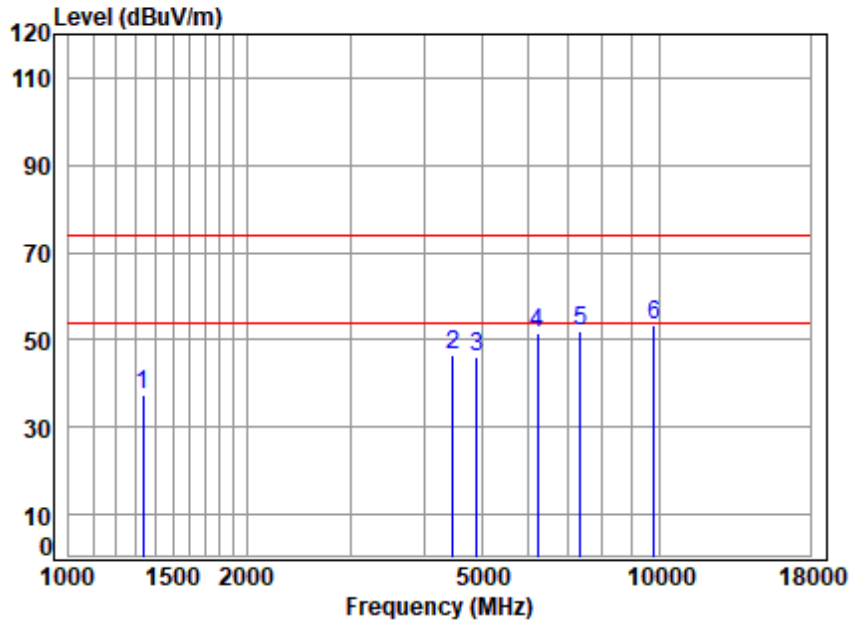
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1560.673	3.31	26.08	39.99	47.44	36.84	74.00	-37.16	peak
2	4456.315	6.72	33.53	41.84	48.01	46.42	74.00	-27.58	peak
3	4904.000	7.20	34.09	42.22	47.89	46.96	74.00	-27.04	peak
4	6756.708	8.42	35.76	41.86	49.03	51.35	74.00	-22.65	peak
5	7356.000	8.88	36.19	41.37	47.05	50.75	74.00	-23.25	peak
6	9808.000	10.75	37.79	37.42	41.79	52.91	74.00	-21.09	peak



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



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2452 TX SE  
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	3.00	25.17	39.85	49.24	37.56	74.00	-36.44	peak
2	4469.214	6.73	33.55	41.85	47.92	46.35	74.00	-27.65	peak
3	4904.000	7.20	34.09	42.22	46.91	45.98	74.00	-28.02	peak
4	6213.441	8.27	35.32	42.24	50.06	51.41	74.00	-22.59	peak
5	7356.000	8.88	36.19	41.37	48.22	51.92	74.00	-22.08	peak
6	9808.000	10.75	37.79	37.42	42.49	53.61	74.00	-20.39	peak

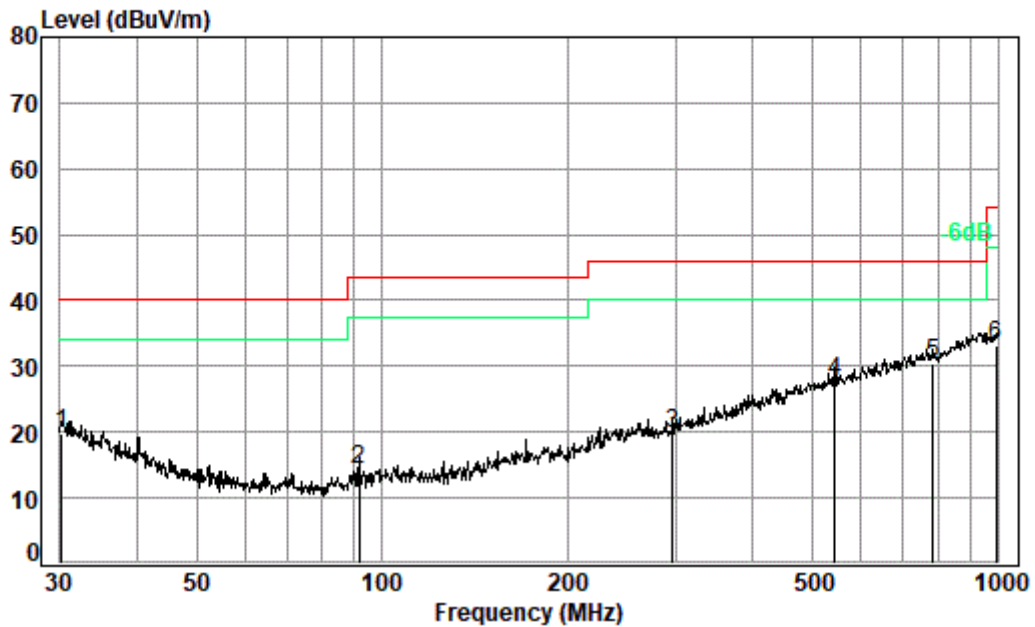


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30MHz~1GHz

QP value:

Mode: 05; Polarization: Horizontal



Condition: 3m HORIZONTAL

Job No. : 00587CR/00588CR

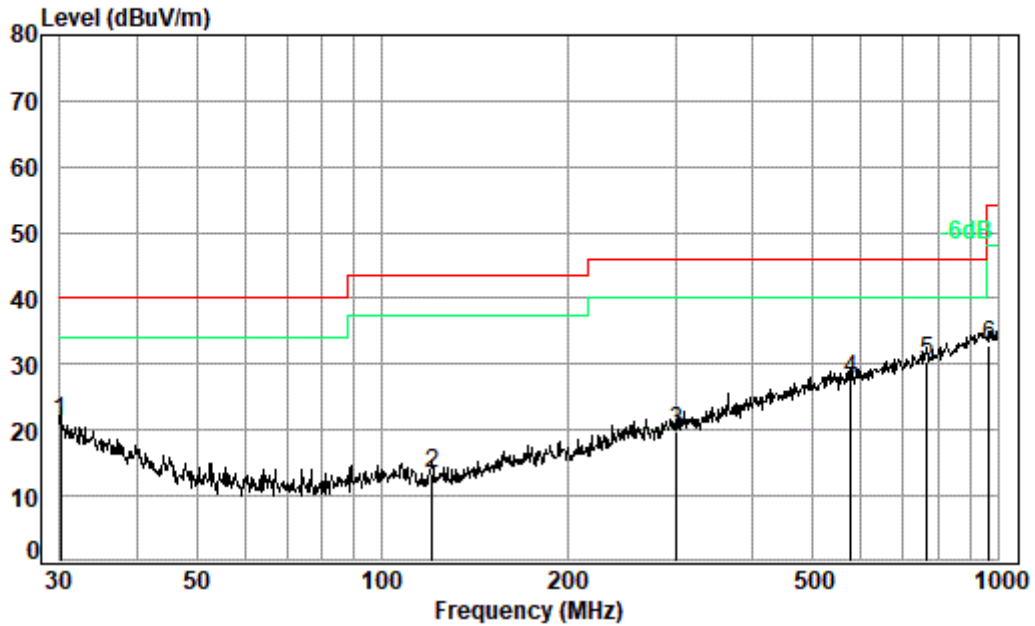
Test Mode: 05

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.21	0.60	22.38	27.73	24.39	19.64	40.00	-20.36	QP
2	91.82	1.12	13.27	27.62	27.43	14.20	43.50	-29.30	QP
3	296.18	1.88	19.45	26.88	25.46	19.91	46.00	-26.09	QP
4	543.27	2.65	25.51	27.95	27.54	27.75	46.00	-18.25	QP
5 pp	785.09	3.16	28.42	27.76	26.73	30.55	46.00	-15.45	QP
6	993.01	3.69	30.27	26.69	25.82	33.09	54.00	-20.91	QP



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Mode: 05; Polarization: Vertical



Condition: 3m VERTICAL

Job No. : 00587CR/00588CR

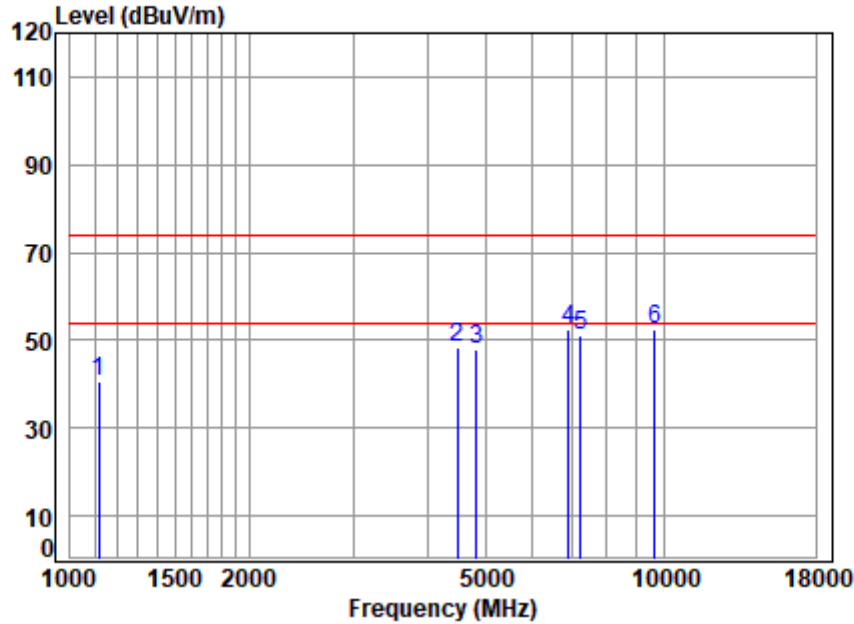
Test Mode: 05

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.11	0.60	22.44	27.74	26.02	21.32	40.00	-18.68	QP
2	120.70	1.25	13.12	27.48	26.40	13.29	43.50	-30.21	QP
3	300.37	1.90	19.61	26.87	25.02	19.66	46.00	-26.34	QP
4	576.64	2.68	26.16	28.06	26.78	27.56	46.00	-18.44	QP
5 pp	766.06	3.11	28.31	27.79	26.82	30.45	46.00	-15.55	QP
6	968.93	3.67	30.15	26.81	25.99	33.00	54.00	-21.00	QP



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



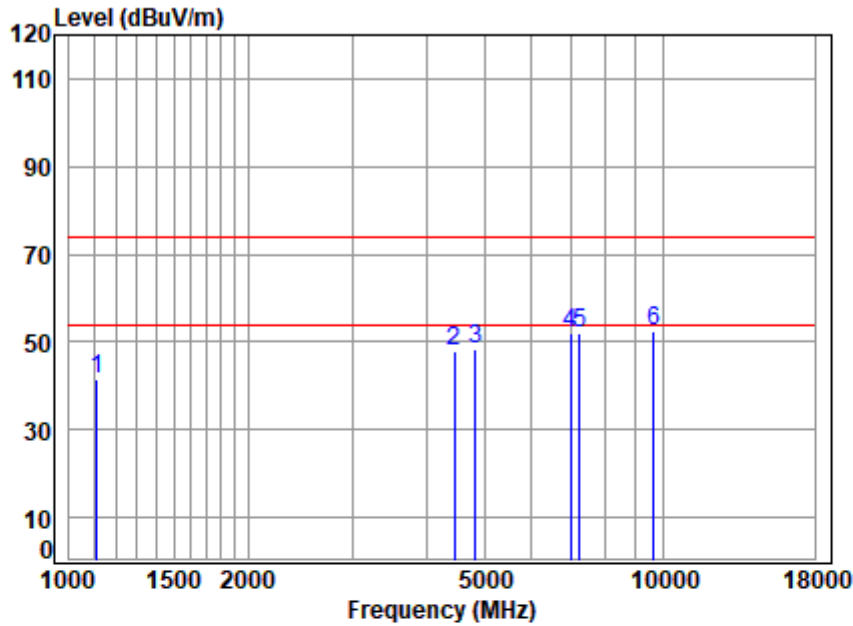
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2412 TX RSE  
 Note : 2.4G WIFI 11B

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	53.64	40.74	74.00	-33.26 peak
2	4482.150	6.74	33.57	41.86	49.77	48.22	74.00	-25.78 peak
3	4824.000	7.12	34.00	42.16	48.85	47.81	74.00	-26.19 peak
4	6894.806	8.49	35.84	41.77	49.71	52.27	74.00	-21.73 peak
5	7236.000	8.77	36.09	41.48	47.58	50.96	74.00	-23.04 peak
6	9648.000	10.79	37.69	37.69	41.47	52.26	74.00	-21.74 peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



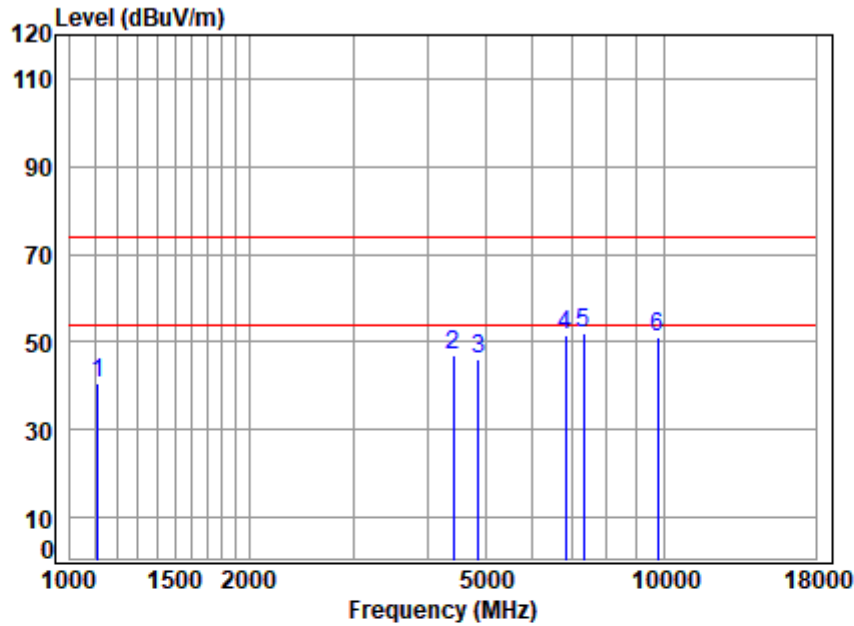
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2412 TX RSE  
 Note : 2.4G WIFI 11B

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1112.872	2.60	24.18	39.69	54.49	41.58	74.00	-32.42 peak
2	4456.315	6.72	33.53	41.84	49.32	47.73	74.00	-26.27 peak
3	4824.000	7.12	34.00	42.16	49.48	48.44	74.00	-25.56 peak
4	6995.172	8.54	35.90	41.70	49.21	51.95	74.00	-22.05 peak
5	7236.000	8.77	36.09	41.48	48.71	52.09	74.00	-21.91 peak
6	9648.000	10.79	37.69	37.69	41.68	52.47	74.00	-21.53 peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



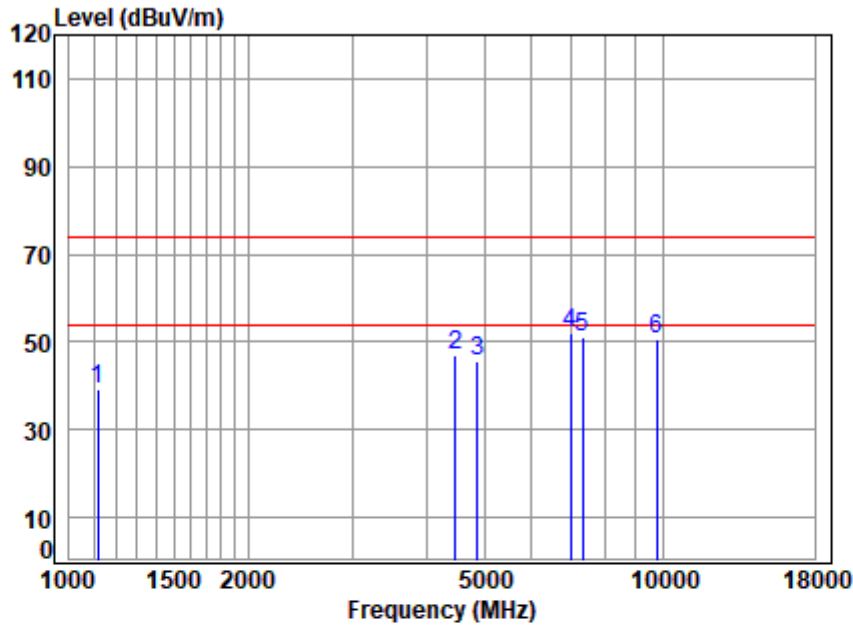
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX SE  
 Note : 2.4G WIFI 11B

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1112.872	2.60	24.18	39.69	53.46	40.55	74.00	-33.45 peak
2	4417.841	6.68	33.46	41.80	48.77	47.11	74.00	-26.89 peak
3	4874.000	7.17	34.05	42.20	47.28	46.30	74.00	-27.70 peak
4	6835.278	8.46	35.80	41.81	48.93	51.38	74.00	-22.62 peak
5	7311.000	8.84	36.15	41.41	48.63	52.21	74.00	-21.79 peak
6	9748.000	10.76	37.75	37.52	40.31	51.30	74.00	-22.70 peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



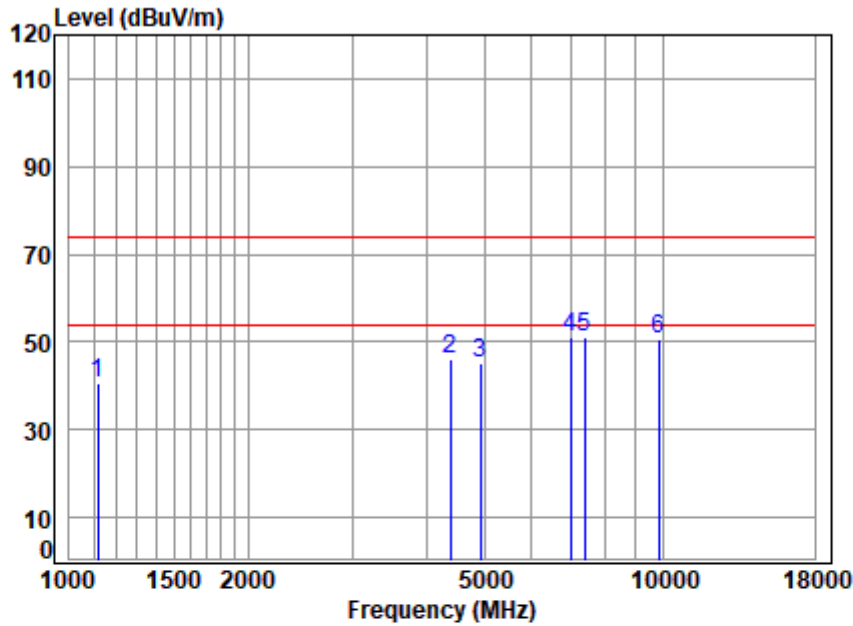
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX SE  
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	52.32	74.00	-34.58	peak
2	4469.214	6.73	33.55	41.85	48.40	74.00	-27.17	peak
3	4874.000	7.17	34.05	42.20	46.79	74.00	-28.19	peak
4	6995.172	8.54	35.90	41.70	49.39	74.00	-21.87	peak
5	7311.000	8.84	36.15	41.41	47.36	74.00	-23.06	peak
6	9748.000	10.76	37.75	37.52	39.49	74.00	-23.52	peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2462 TX RSE  
 Note : 2.4G WIFI 11B

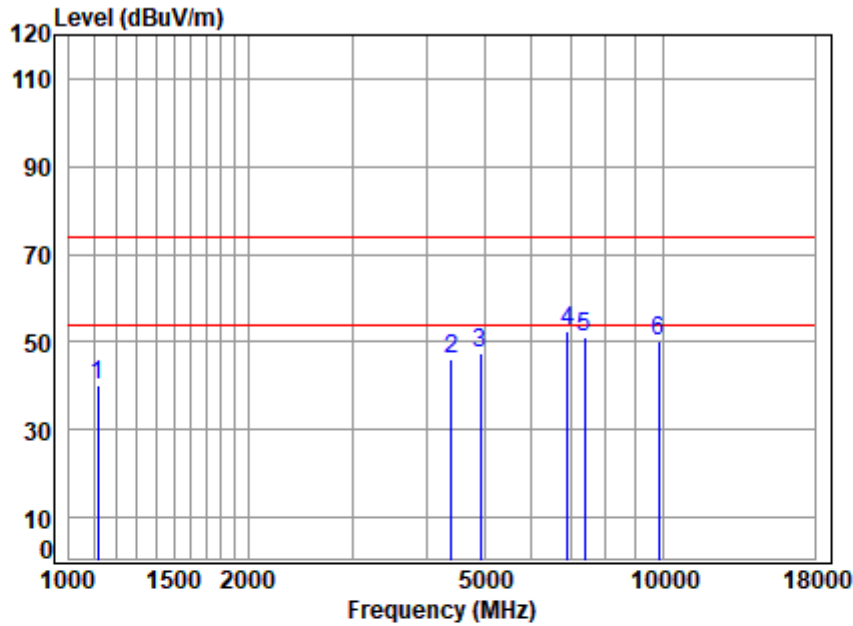
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1116.093	2.60	24.20	39.70	53.44	40.54	74.00	-33.46 peak
2	4379.699	6.65	33.39	41.77	47.59	45.86	74.00	-28.14 peak
3	4924.000	7.22	34.11	42.24	46.30	45.39	74.00	-28.61 peak
4	6995.172	8.54	35.90	41.70	48.21	50.95	74.00	-23.05 peak
5	7386.000	8.91	36.21	41.34	47.24	51.02	74.00	-22.98 peak
6	9848.000	10.73	37.81	37.35	39.34	50.53	74.00	-23.47 peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



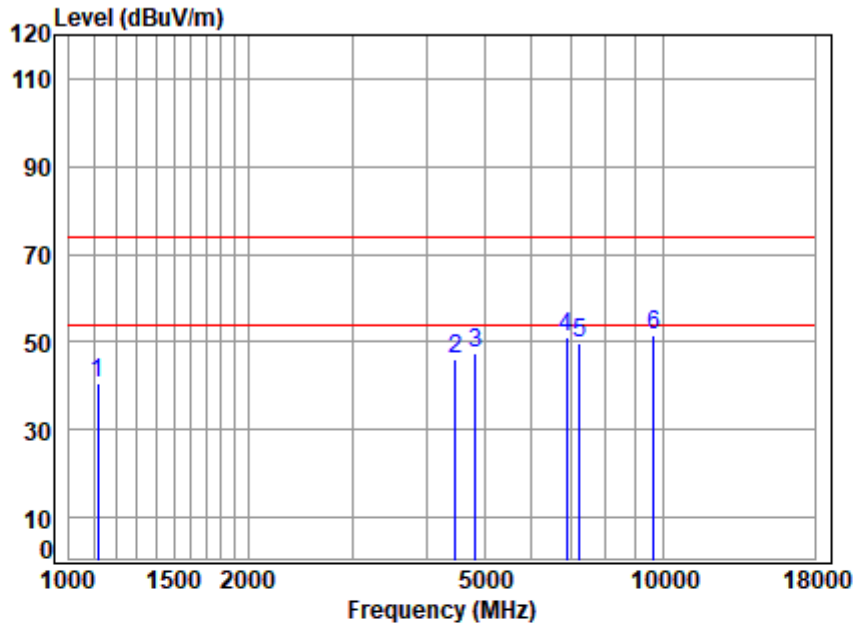
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2462 TX RSE  
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	53.04	74.00	-33.86	peak
2	4405.090	6.67	33.44	41.79	47.85	74.00	-27.83	peak
3	4924.000	7.22	34.11	42.24	48.40	74.00	-26.51	peak
4	6894.806	8.49	35.84	41.77	49.78	74.00	-21.66	peak
5	7386.000	8.91	36.21	41.34	47.43	74.00	-22.79	peak
6	9848.000	10.73	37.81	37.35	39.03	74.00	-23.78	peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



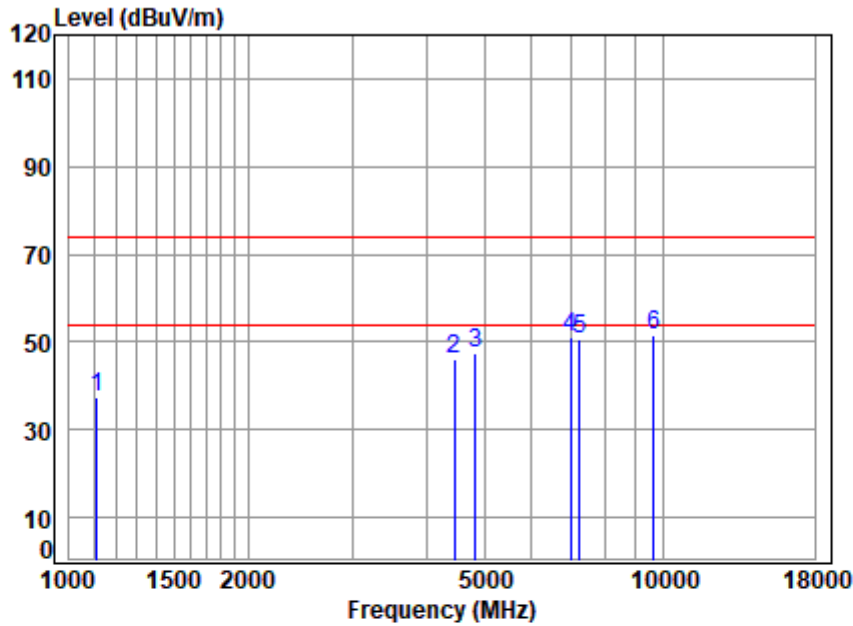
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2412 TX RSE  
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	53.72	74.00	-33.18	peak
2	4469.214	6.73	33.55	41.85	47.62	74.00	-27.95	peak
3	4824.000	7.12	34.00	42.16	48.50	74.00	-26.54	peak
4	6874.906	8.48	35.83	41.78	48.80	74.00	-22.67	peak
5	7236.000	8.77	36.09	41.48	46.55	74.00	-24.07	peak
6	9648.000	10.79	37.69	37.69	40.70	74.00	-22.51	peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



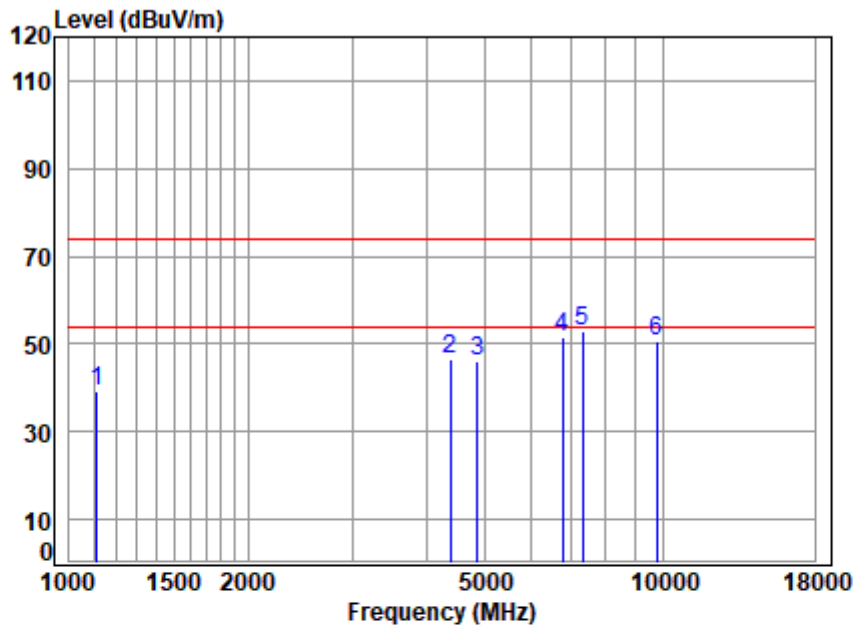
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2412 TX RSE  
 Note : 2.4G WIFI 11G

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1112.872	2.60	24.18	39.69	50.49	37.58	74.00	-36.42 peak
2	4456.315	6.72	33.53	41.84	47.67	46.08	74.00	-27.92 peak
3	4824.000	7.12	34.00	42.16	48.47	47.43	74.00	-26.57 peak
4	6995.172	8.54	35.90	41.70	48.51	51.25	74.00	-22.75 peak
5	7236.000	8.77	36.09	41.48	47.15	50.53	74.00	-23.47 peak
6	9648.000	10.79	37.69	37.69	40.71	51.50	74.00	-22.50 peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



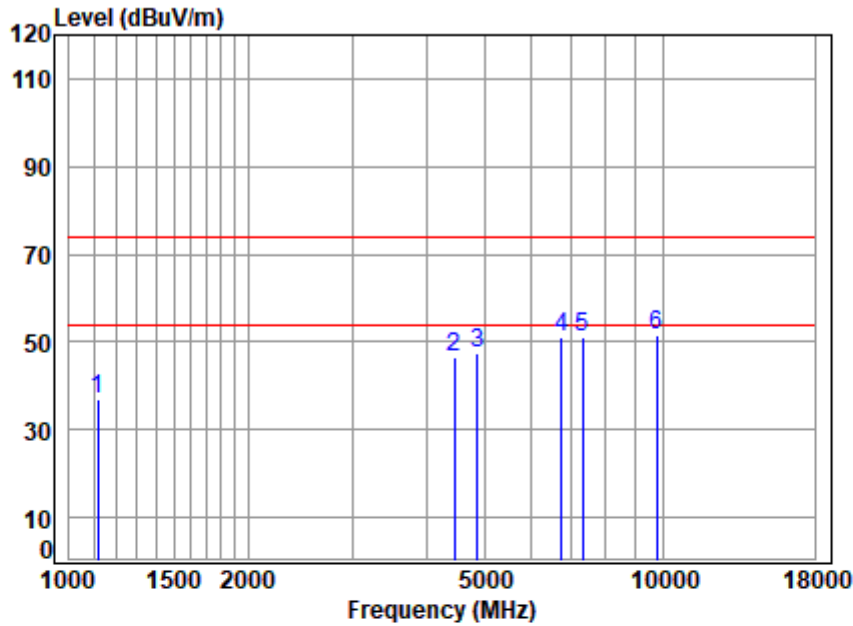
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX SE  
 Note : 2.4G WIFI 11G

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1112.872	2.60	24.18	39.69	52.06	39.15	74.00	-34.85 peak
2	4379.699	6.65	33.39	41.77	48.07	46.34	74.00	-27.66 peak
3	4874.000	7.17	34.05	42.20	47.05	46.07	74.00	-27.93 peak
4	6776.265	8.43	35.77	41.85	49.12	51.47	74.00	-22.53 peak
5	7311.000	8.84	36.15	41.41	49.28	52.86	74.00	-21.14 peak
6	9748.000	10.76	37.75	37.52	39.88	50.87	74.00	-23.13 peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



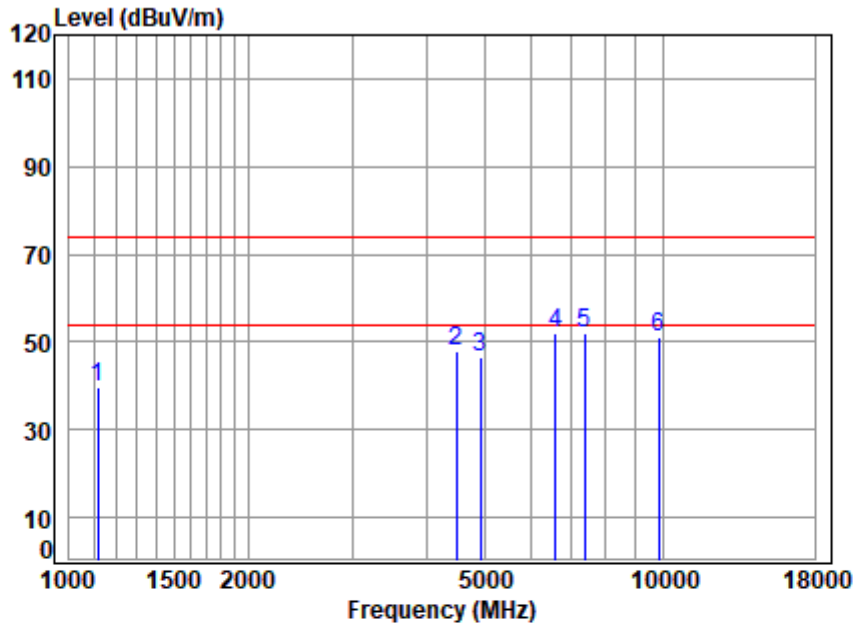
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX SE  
 Note : 2.4G WIFI 11G

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	50.05	37.15	74.00	-36.85 peak
2	4456.315	6.72	33.53	41.84	48.00	46.41	74.00	-27.59 peak
3	4874.000	7.17	34.05	42.20	48.29	47.31	74.00	-26.69 peak
4	6737.207	8.41	35.75	41.87	48.74	51.03	74.00	-22.97 peak
5	7311.000	8.84	36.15	41.41	47.56	51.14	74.00	-22.86 peak
6	9748.000	10.76	37.75	37.52	40.74	51.73	74.00	-22.27 peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



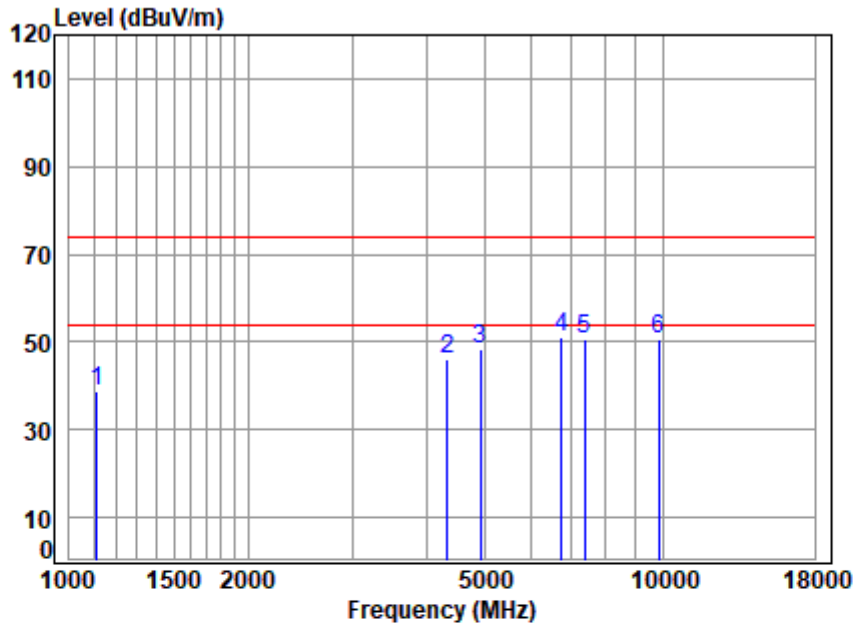
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2462 TX RSE  
 Note : 2.4G WIFI 11G

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	52.42	39.52	74.00	-34.48 peak
2	4482.150	6.74	33.57	41.86	49.29	47.74	74.00	-26.26 peak
3	4924.000	7.22	34.11	42.24	47.59	46.68	74.00	-27.32 peak
4	6583.209	8.32	35.65	41.98	49.84	51.83	74.00	-22.17 peak
5	7386.000	8.91	36.21	41.34	48.30	52.08	74.00	-21.92 peak
6	9848.000	10.73	37.81	37.35	39.89	51.08	74.00	-22.92 peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



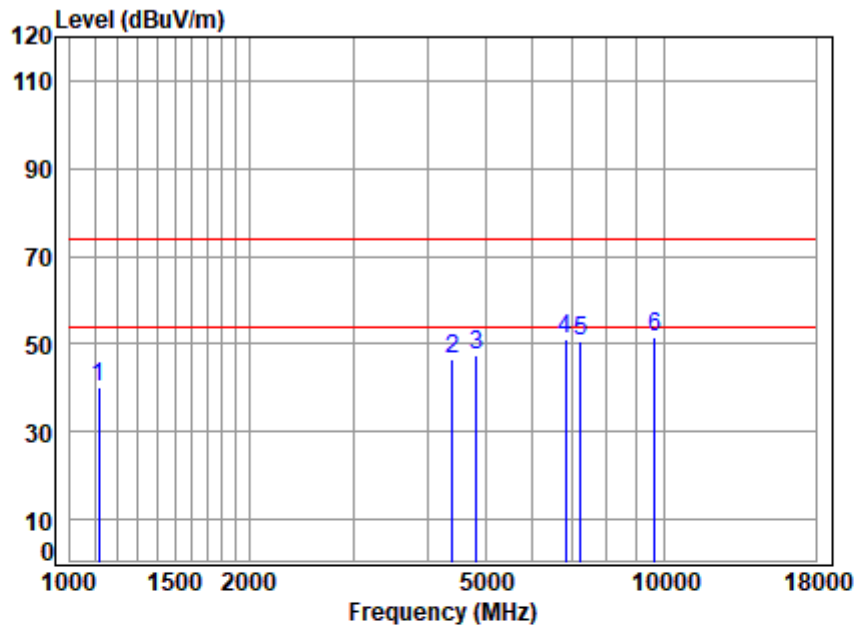
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2462 TX RSE  
 Note : 2.4G WIFI 11G

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1112.872	2.60	24.18	39.69	51.88	38.97	74.00	-35.03 peak
2	4329.354	6.60	33.30	41.72	47.79	45.97	74.00	-28.03 peak
3	4924.000	7.22	34.11	42.24	49.35	48.44	74.00	-25.56 peak
4	6756.708	8.42	35.76	41.86	49.00	51.32	74.00	-22.68 peak
5	7386.000	8.91	36.21	41.34	46.85	50.63	74.00	-23.37 peak
6	9848.000	10.73	37.81	37.35	39.49	50.68	74.00	-23.32 peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2412 TX RSE  
 Note : 2.4G WIFI 11N 20

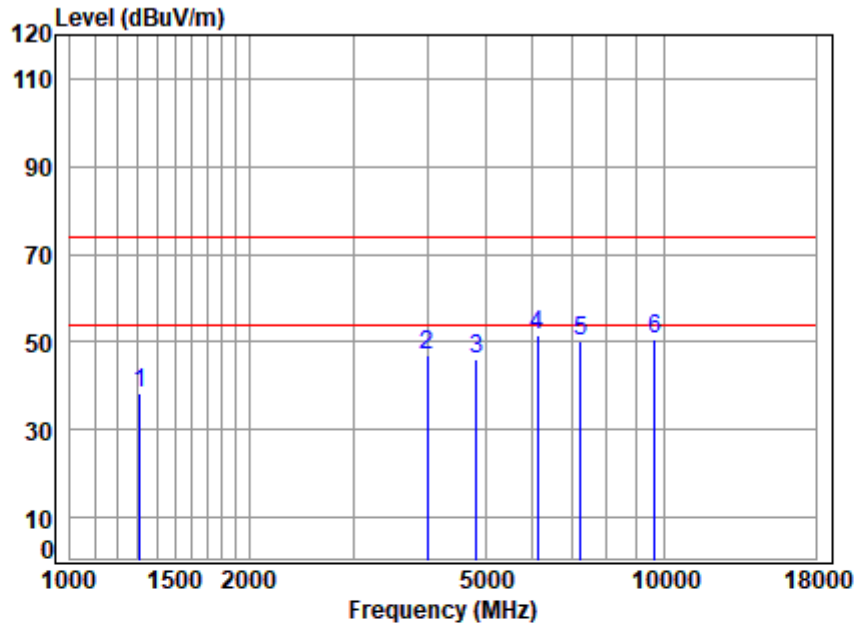
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	52.99	74.00	-33.91	peak
2	4405.090	6.67	33.44	41.79	48.00	74.00	-27.68	peak
3	4824.000	7.12	34.00	42.16	48.61	74.00	-26.43	peak
4	6835.278	8.46	35.80	41.81	48.44	74.00	-23.11	peak
5	7236.000	8.77	36.09	41.48	47.16	74.00	-23.46	peak
6	9648.000	10.79	37.69	37.69	40.67	74.00	-22.54	peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



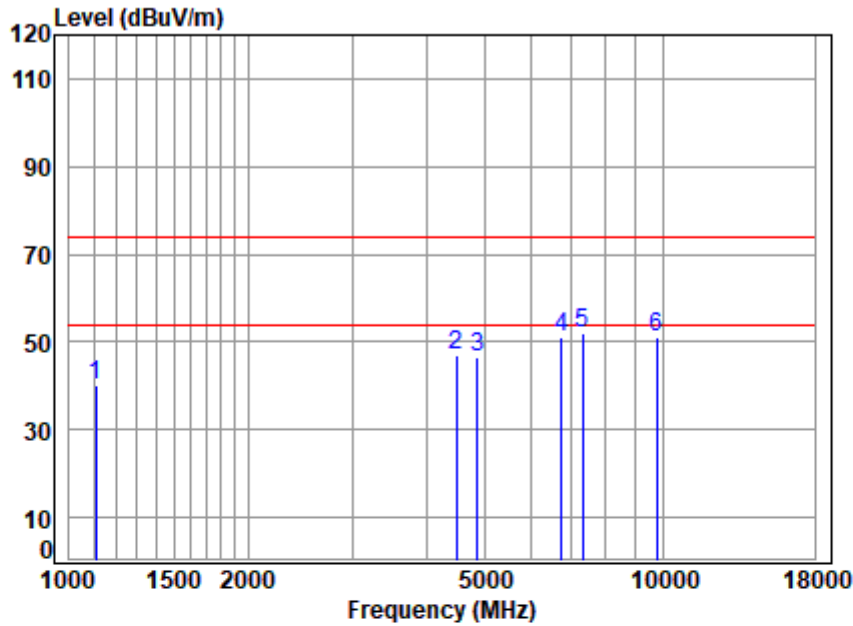
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2412 TX RSE  
 Note : 2.4G WIFI 11N 20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2.96	25.06	39.83	49.96	38.15	74.00	-35.85	peak
2	6.27	32.69	41.40	49.35	46.91	74.00	-27.09	peak
3	7.12	34.00	42.16	47.10	46.06	74.00	-27.94	peak
4	8.27	35.23	42.31	50.29	51.48	74.00	-22.52	peak
5	8.77	36.09	41.48	47.03	50.41	74.00	-23.59	peak
6	10.79	37.69	37.69	40.07	50.86	74.00	-23.14	peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



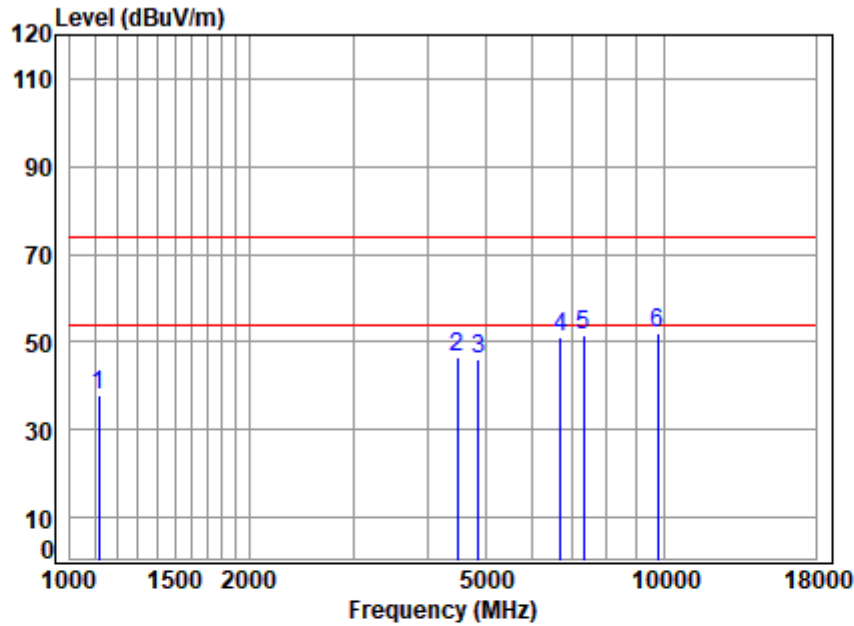
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX SE  
 Note : 2.4G WIFI 11N 20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2.59	24.16	39.69	52.92	39.98	74.00	-34.02	peak
2	6.76	33.59	41.87	48.62	47.10	74.00	-26.90	peak
3	7.17	34.05	42.20	47.64	46.66	74.00	-27.34	peak
4	8.42	35.76	41.86	48.72	51.04	74.00	-22.96	peak
5	8.84	36.15	41.41	48.33	51.91	74.00	-22.09	peak
6	10.76	37.75	37.52	40.02	51.01	74.00	-22.99	peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



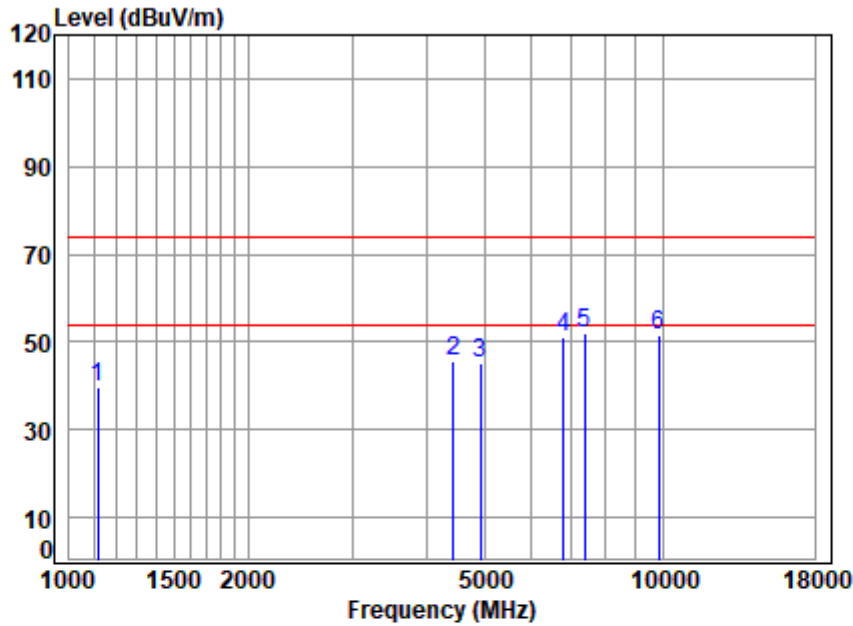
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX SE  
 Note : 2.4G WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1119.323	2.61	24.21	39.70	50.77	37.89	74.00	-36.11	peak
2	4482.150	6.74	33.57	41.86	48.09	46.54	74.00	-27.46	peak
3	4874.000	7.17	34.05	42.20	47.26	46.28	74.00	-27.72	peak
4	6698.373	8.39	35.72	41.90	48.97	51.18	74.00	-22.82	peak
5	7311.000	8.84	36.15	41.41	47.87	51.45	74.00	-22.55	peak
6	9748.000	10.76	37.75	37.52	41.24	52.23	74.00	-21.77	peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



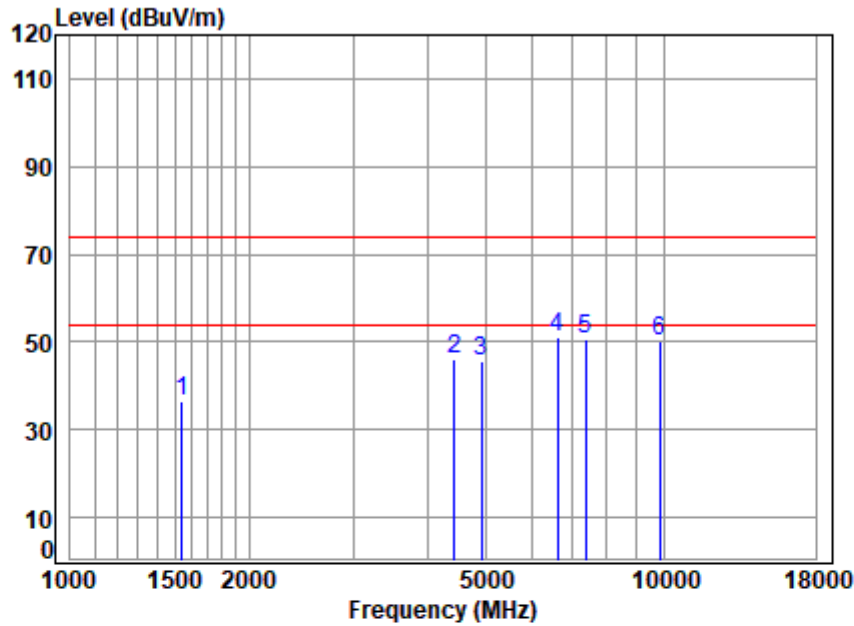
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2462 TX RSE  
 Note : 2.4G WIFI 11N 20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2.60	24.20	39.70	52.56	39.66	74.00	-34.34	peak
2	6.70	33.48	41.81	47.41	45.78	74.00	-28.22	peak
3	7.22	34.11	42.24	46.09	45.18	74.00	-28.82	peak
4	8.44	35.78	41.83	48.56	50.95	74.00	-23.05	peak
5	8.91	36.21	41.34	48.02	51.80	74.00	-22.20	peak
6	10.73	37.81	37.35	40.14	51.33	74.00	-22.67	peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



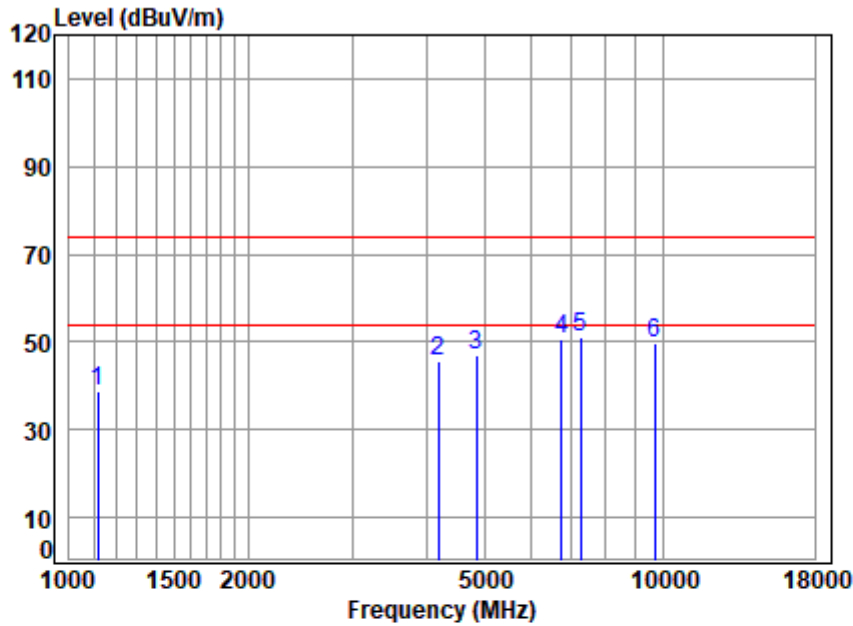
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2462 TX RSE  
 Note : 2.4G WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1542.733	3.30	26.00	39.98	46.96	36.28	74.00	-37.72	peak
2	4430.628	6.70	33.48	41.81	47.59	45.96	74.00	-28.04	peak
3	4924.000	7.22	34.11	42.24	46.57	45.66	74.00	-28.34	peak
4	6621.375	8.34	35.67	41.95	49.02	51.08	74.00	-22.92	peak
5	7386.000	8.91	36.21	41.34	46.67	50.45	74.00	-23.55	peak
6	9848.000	10.73	37.81	37.35	38.87	50.06	74.00	-23.94	peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



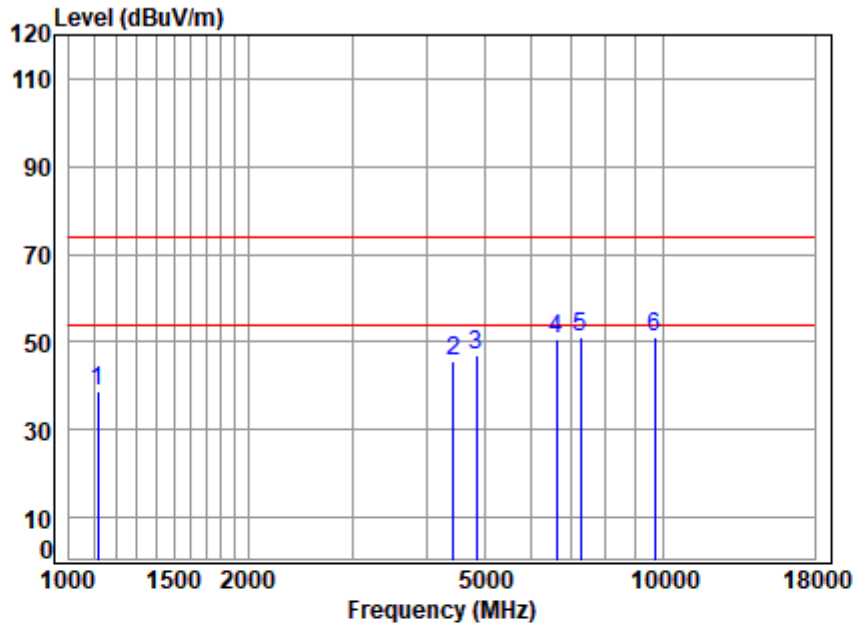
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2422 TX RSE  
 Note : 2.4G WIFI 11N 40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	51.69	38.79	74.00	-35.21 peak
2	4181.768	6.46	33.04	41.58	47.92	45.84	74.00	-28.16 peak
3	4844.000	7.14	34.02	42.17	48.03	47.02	74.00	-26.98 peak
4	6737.207	8.41	35.75	41.87	48.55	50.84	74.00	-23.16 peak
5	7266.000	8.79	36.12	41.45	47.67	51.13	74.00	-22.87 peak
6	9688.000	10.78	37.71	37.63	38.98	49.84	74.00	-24.16 peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



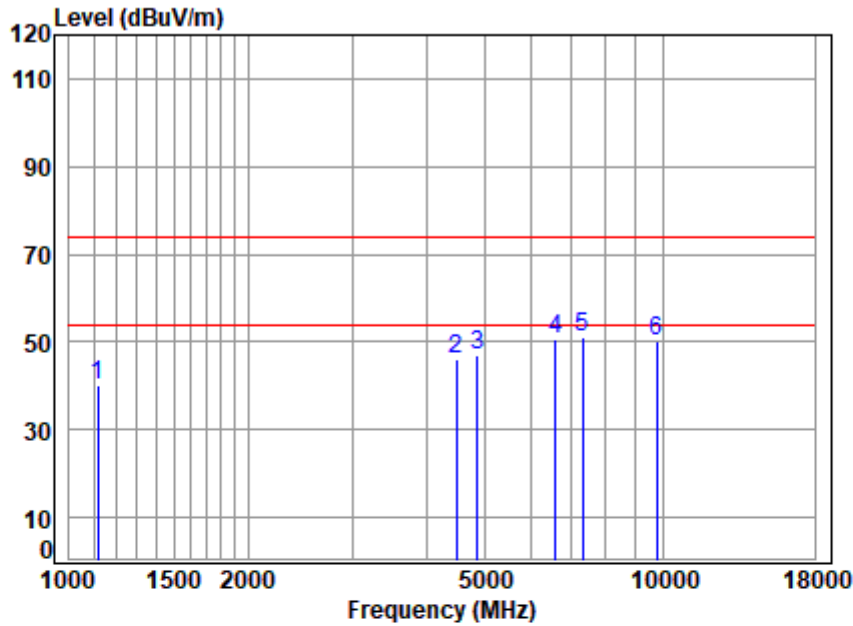
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2422 TX RSE  
 Note : 2.4G WIFI 11N 40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	51.72	38.82	74.00	-35.18 peak
2	4430.628	6.70	33.48	41.81	47.40	45.77	74.00	-28.23 peak
3	4844.000	7.14	34.02	42.17	47.91	46.90	74.00	-27.10 peak
4	6621.375	8.34	35.67	41.95	48.40	50.46	74.00	-23.54 peak
5	7266.000	8.79	36.12	41.45	47.87	51.33	74.00	-22.67 peak
6	9688.000	10.78	37.71	37.63	40.34	51.20	74.00	-22.80 peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX RSE  
 Note : 2.4G WIFI 11N 40

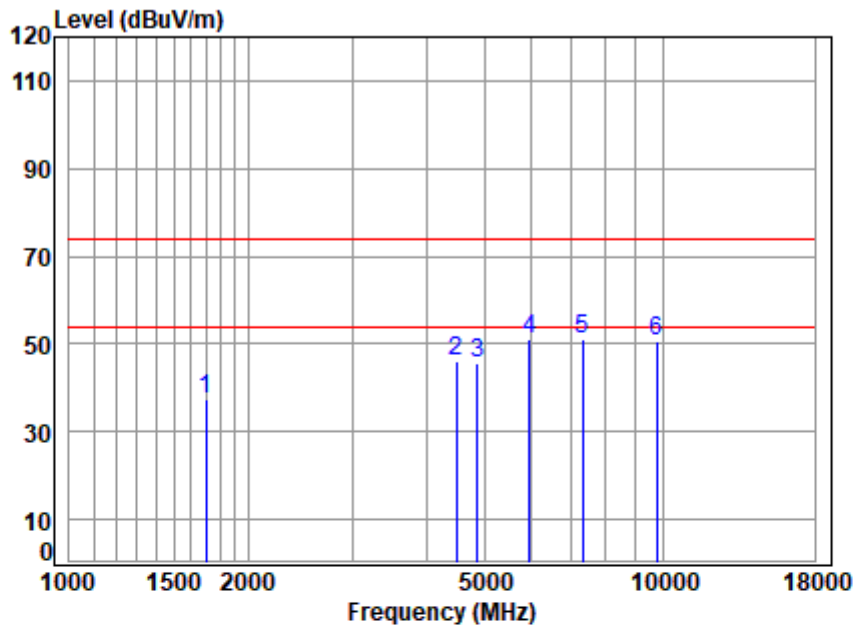
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	53.17	40.27	74.00	-33.73 peak
2	4482.150	6.74	33.57	41.86	47.58	46.03	74.00	-27.97 peak
3	4874.000	7.17	34.05	42.20	48.14	47.16	74.00	-26.84 peak
4	6583.209	8.32	35.65	41.98	48.62	50.61	74.00	-23.39 peak
5	7311.000	8.84	36.15	41.41	47.57	51.15	74.00	-22.85 peak
6	9748.000	10.76	37.75	37.52	39.10	50.09	74.00	-23.91 peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



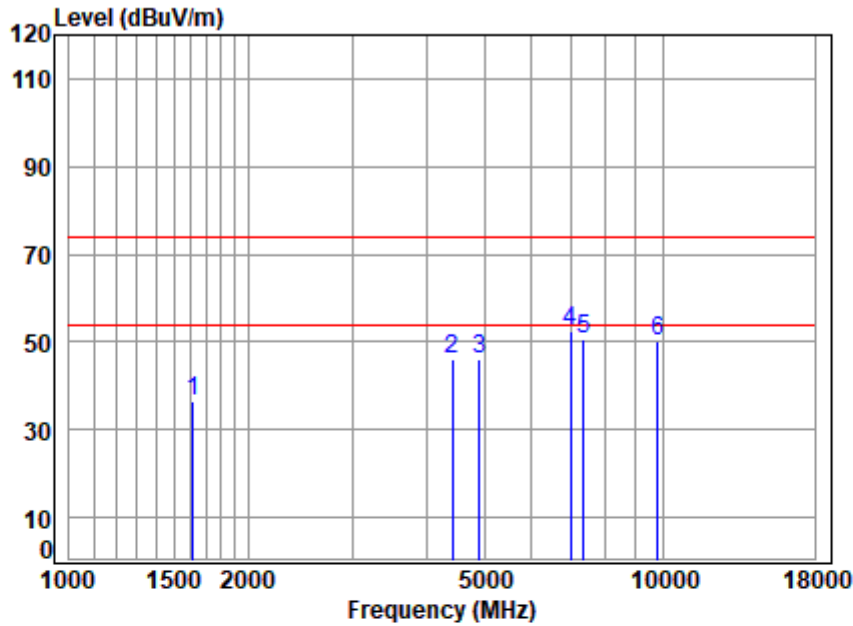
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2437 TX RSE  
 Note : 2.4G WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	3.43	26.66	40.06	47.40	37.43	74.00	-36.57	peak
2	4482.150	6.74	33.57	41.86	47.67	46.12	74.00	-27.88	peak
3	4874.000	7.17	34.05	42.20	46.77	45.79	74.00	-28.21	peak
4	5967.033	8.25	35.07	42.40	50.14	51.06	74.00	-22.94	peak
5	7311.000	8.84	36.15	41.41	47.44	51.02	74.00	-22.98	peak
6	9748.000	10.76	37.75	37.52	39.80	50.79	74.00	-23.21	peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



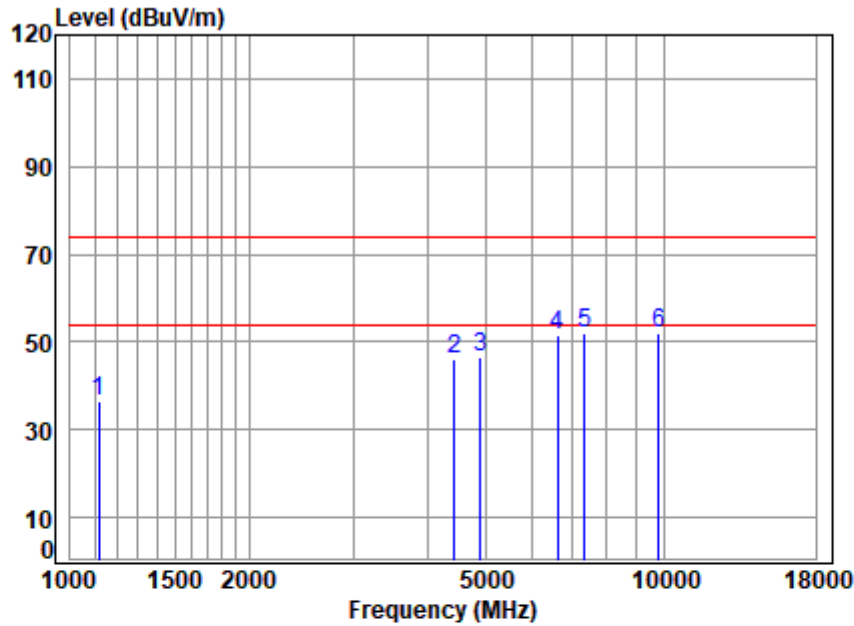
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00587CR/00588CR  
 Mode : 2452 TX SE  
 Note : 2.4G WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1615.754	3.36	26.32	40.02	47.05	74.00	-37.29	peak
2	4417.841	6.68	33.46	41.80	47.93	74.00	-27.73	peak
3	4904.000	7.20	34.09	42.22	46.97	74.00	-27.96	peak
4	6995.172	8.54	35.90	41.70	49.65	74.00	-21.61	peak
5	7356.000	8.88	36.19	41.37	46.92	74.00	-23.38	peak
6	9808.000	10.75	37.79	37.42	39.17	74.00	-23.71	peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00587CR/00588CR  
 Mode : 2452 TX SE  
 Note : 2.4G WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1116.093	2.60	24.20	39.70	49.49	74.00	-37.41	peak
2	4443.453	6.71	33.50	41.82	47.48	74.00	-28.13	peak
3	4904.000	7.20	34.09	42.22	47.35	74.00	-27.58	peak
4	6621.375	8.34	35.67	41.95	49.58	74.00	-22.36	peak
5	7356.000	8.88	36.19	41.37	48.36	74.00	-21.94	peak
6	9808.000	10.75	37.79	37.42	41.01	74.00	-21.87	peak



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## 7 Test Setup Photo

Refer to test setup photos.

## 8 EUT Constructional Details (EUT Photos)

Refer to external and internal photos.



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## 9 Appendix

### Appendix for 15.247- For crystal oscillator D Version of the WIFI module

#### 1. Maximum Conducted Output Power

##### 1.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	19.05	30	PASS
	2437	SISO	19.07	30	PASS
	2462	SISO	19.65	30	PASS
802.11g	2412	SISO	20.56	30	PASS
	2437	SISO	20.18	30	PASS
	2462	SISO	20.52	30	PASS
802.11n(HT20)	2412	SISO	19.81	30	PASS
	2437	SISO	15.40	30	PASS
	2462	SISO	20.42	30	PASS
802.11n(HT40)	2422	SISO	19.94	30	PASS
	2437	SISO	19.87	30	PASS
	2452	SISO	20.03	30	PASS

#### 2. Unwanted Emissions in Non-restricted Frequency Bands

##### 2.1 Test Result

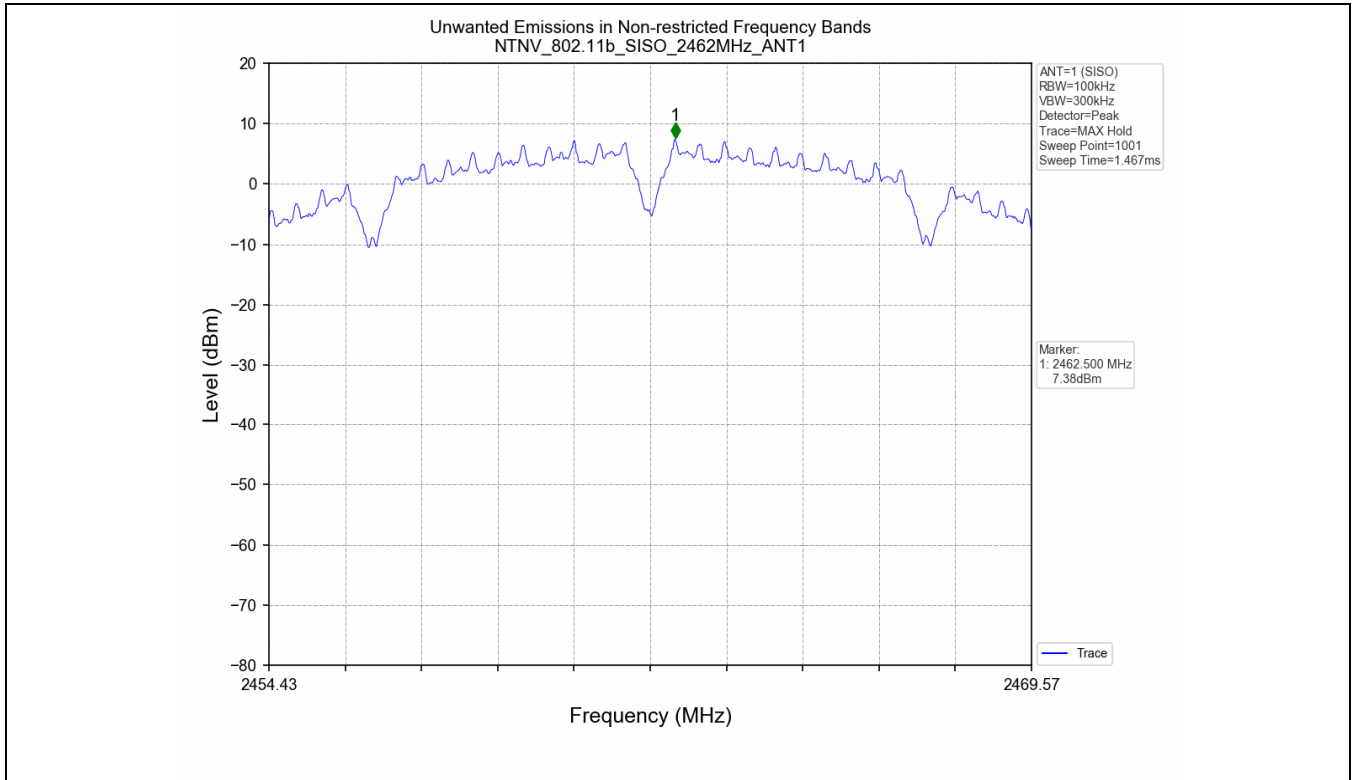
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-12.62	PASS
	2437	SISO	1	Refer to test graph	-12.62	PASS
	2462	SISO	1	Refer to test graph	-12.62	PASS
802.11g	2412	SISO	1	Refer to test graph	-16.65	PASS
	2437	SISO	1	Refer to test graph	-16.65	PASS
	2462	SISO	1	Refer to test graph	-16.65	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-17.63	PASS
	2437	SISO	1	Refer to test graph	-17.63	PASS
	2462	SISO	1	Refer to test graph	-17.63	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-18.01	PASS



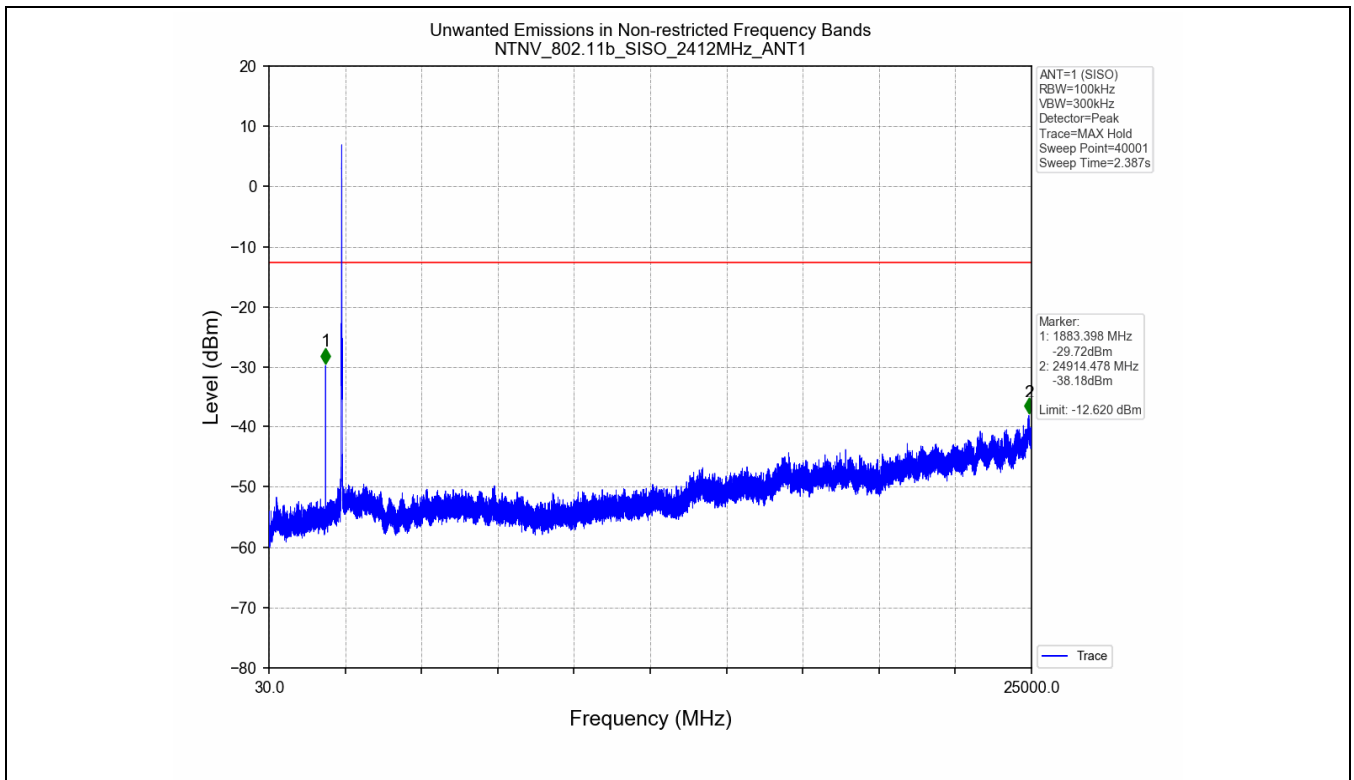
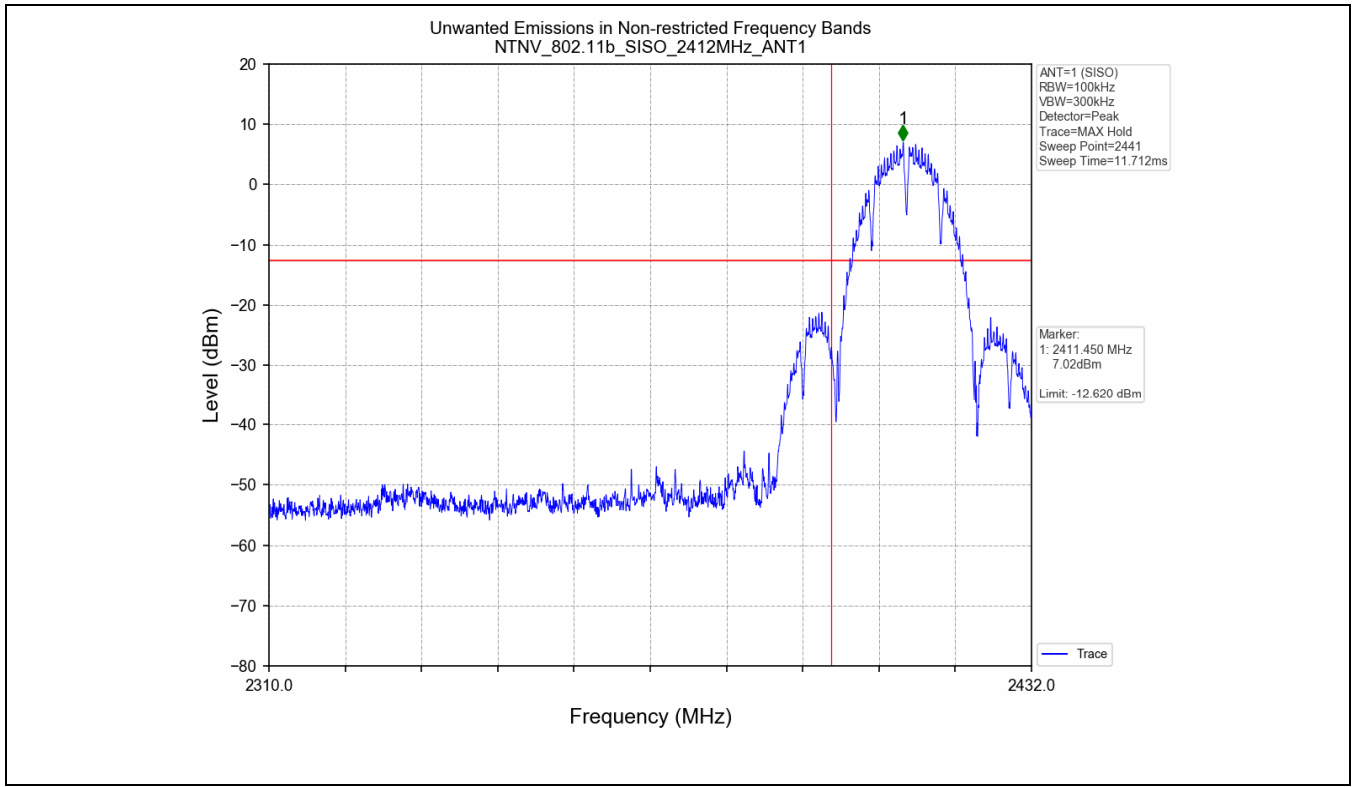
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	2437	SISO	1	Refer to test graph	-18.01	PASS
	2452	SISO	1	Refer to test graph	-18.01	PASS

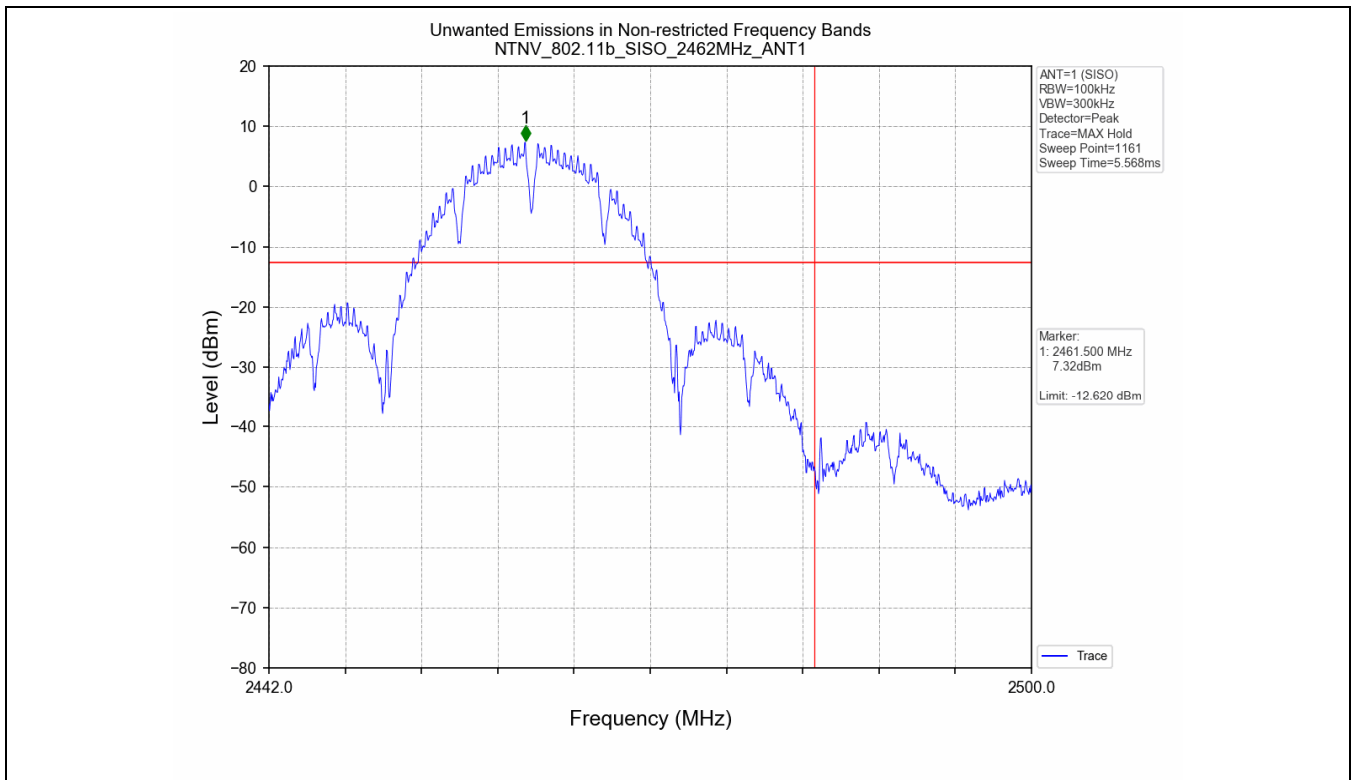
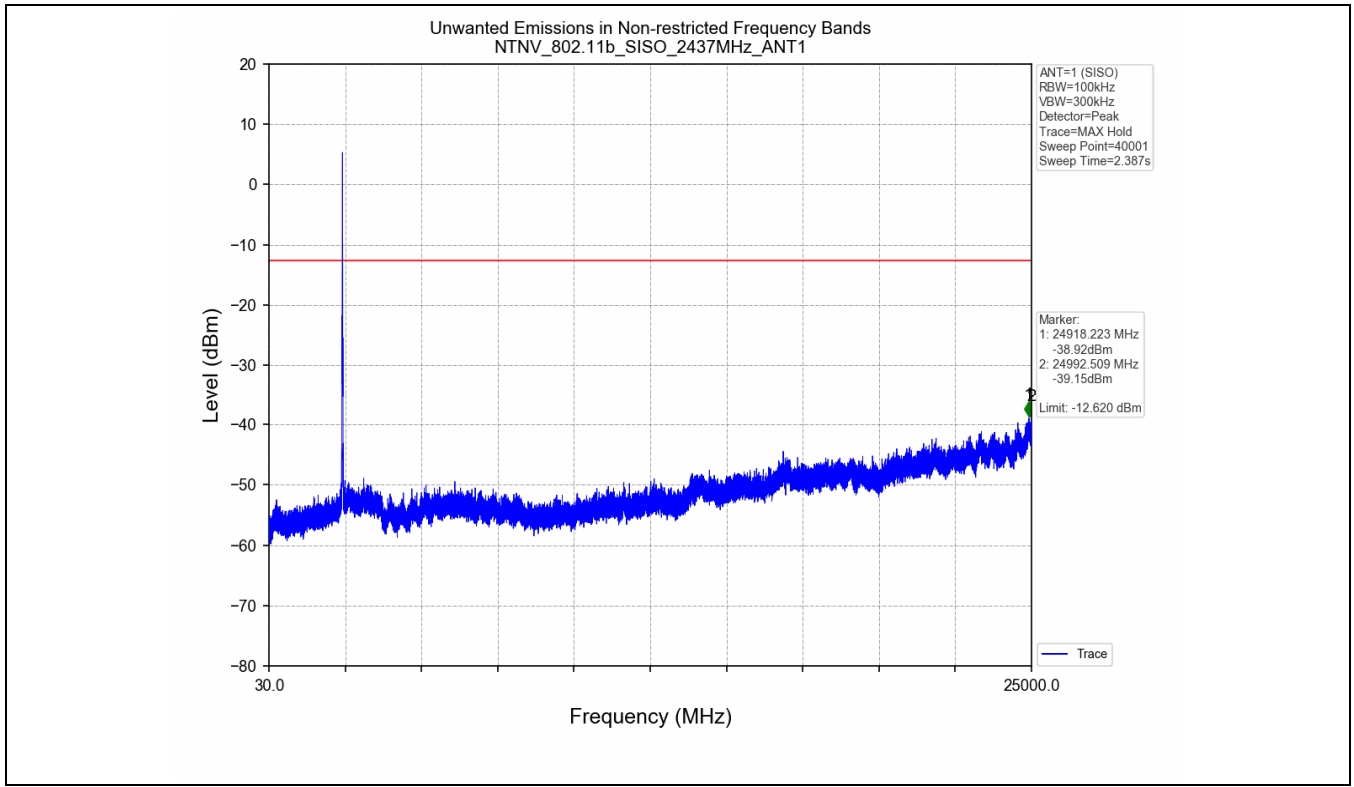
### 2.2 Test Graph



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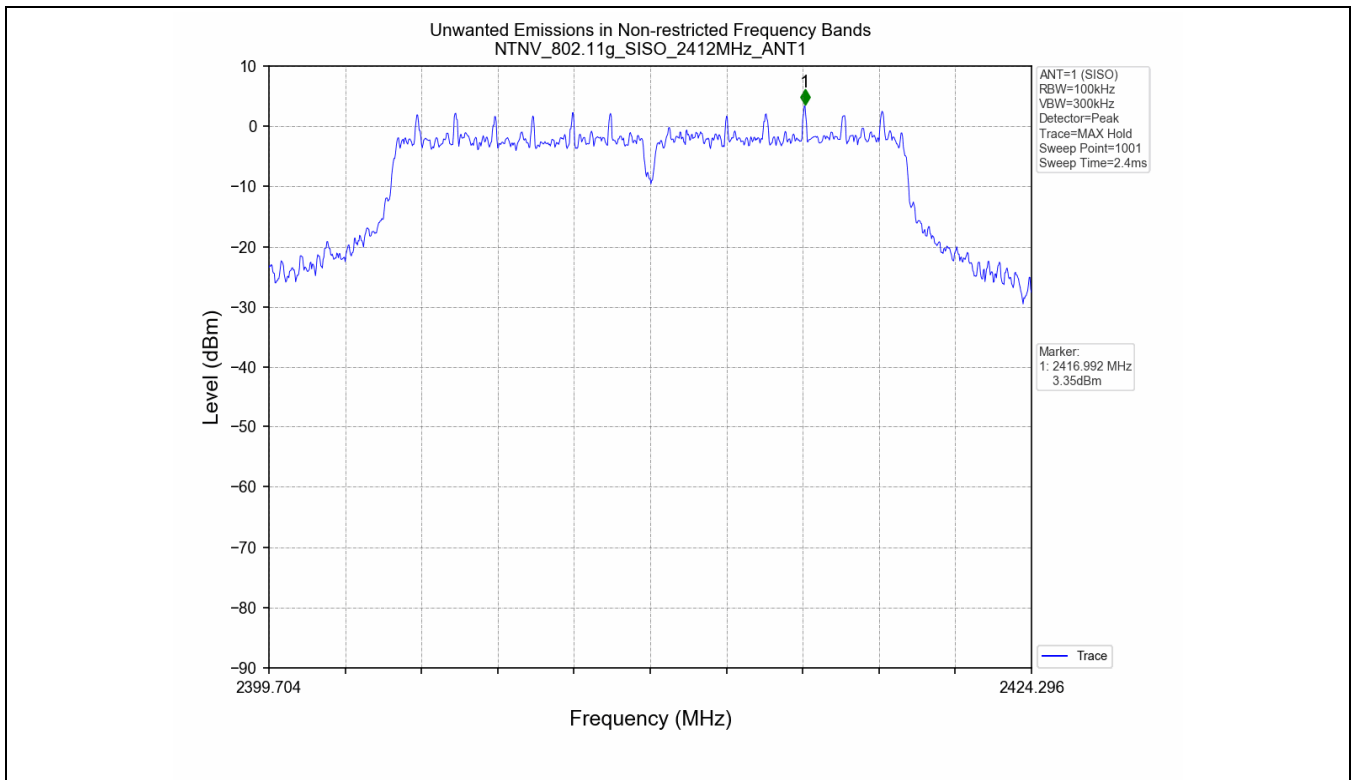
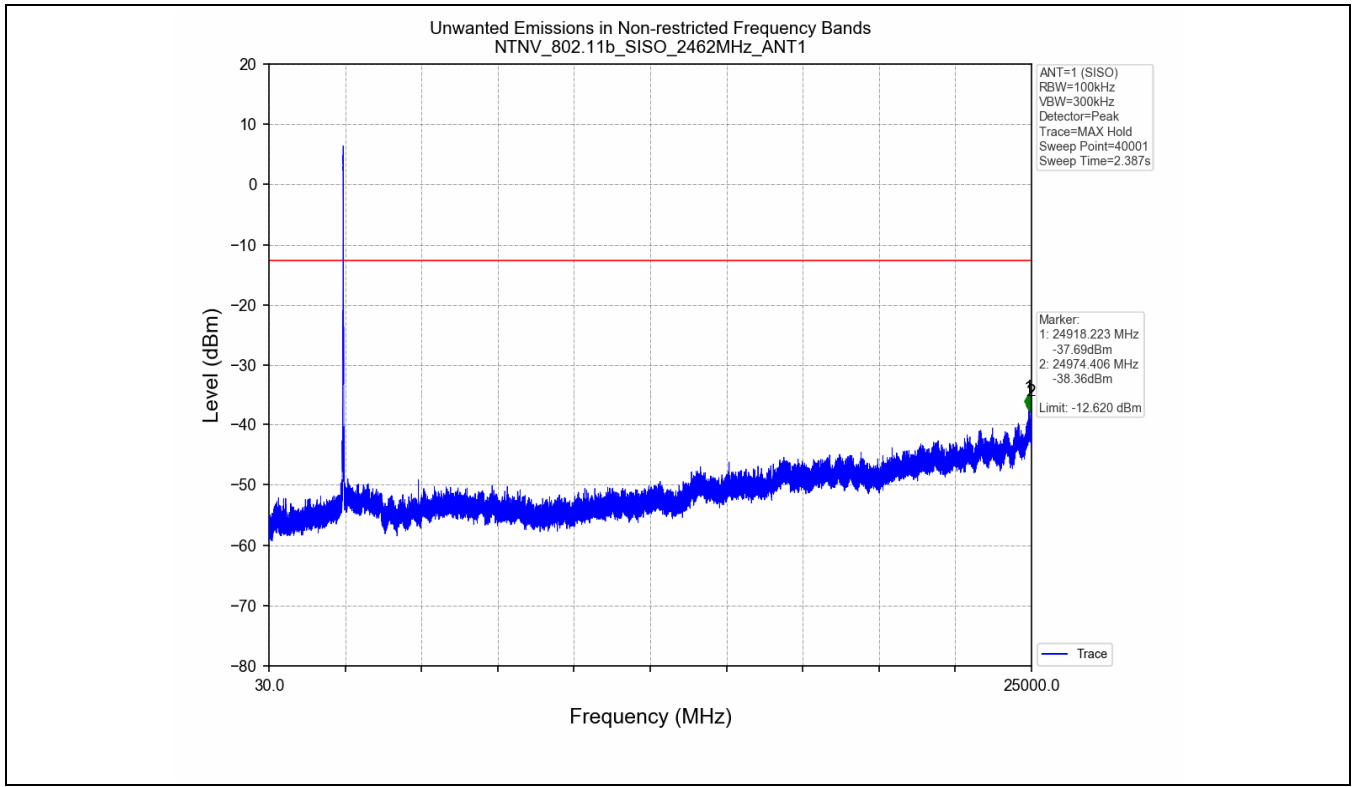


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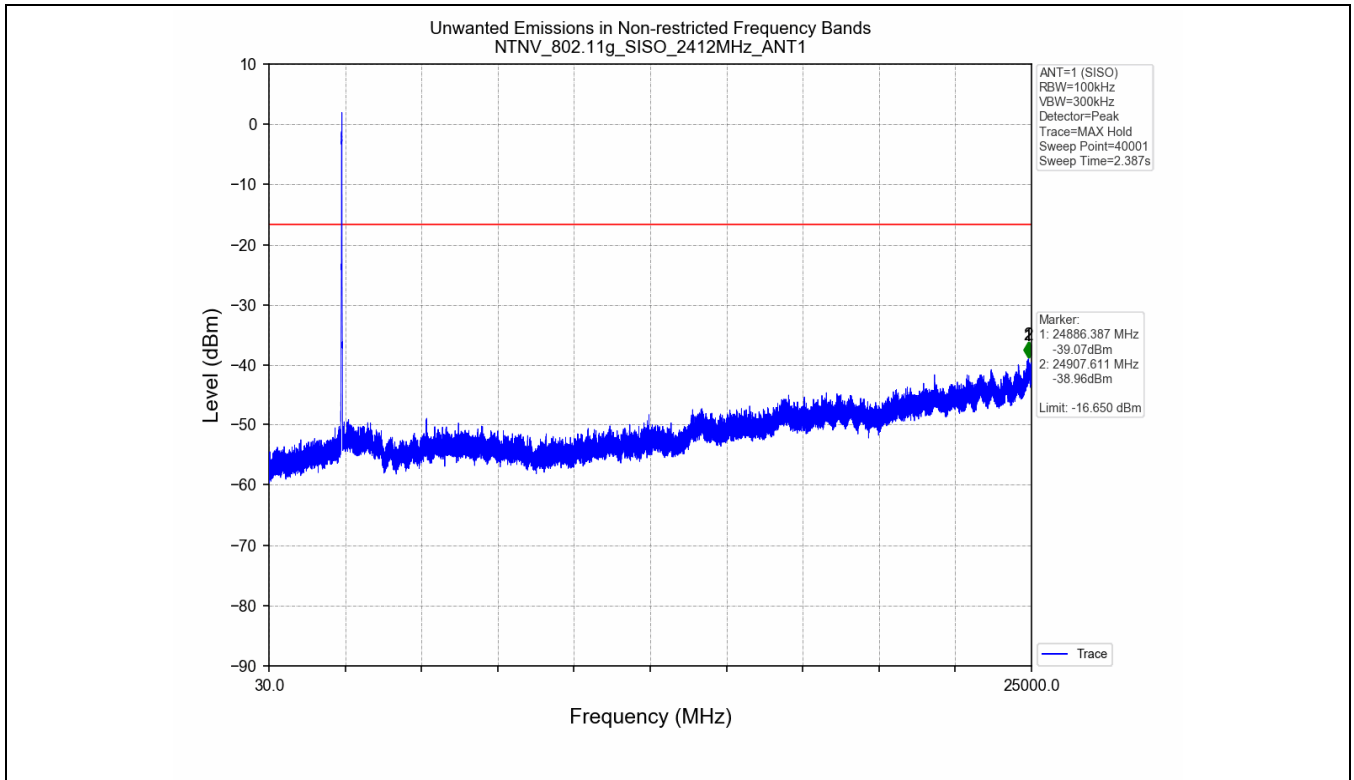
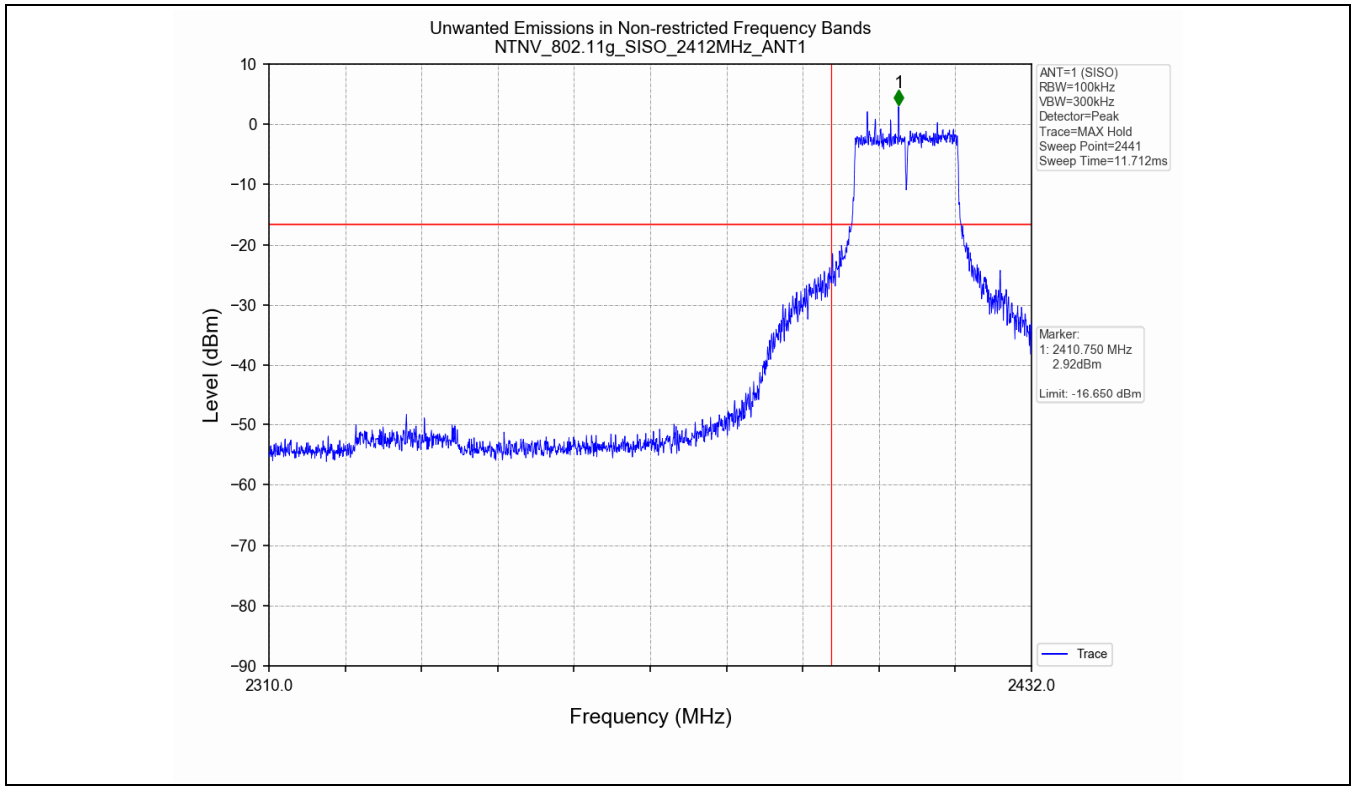
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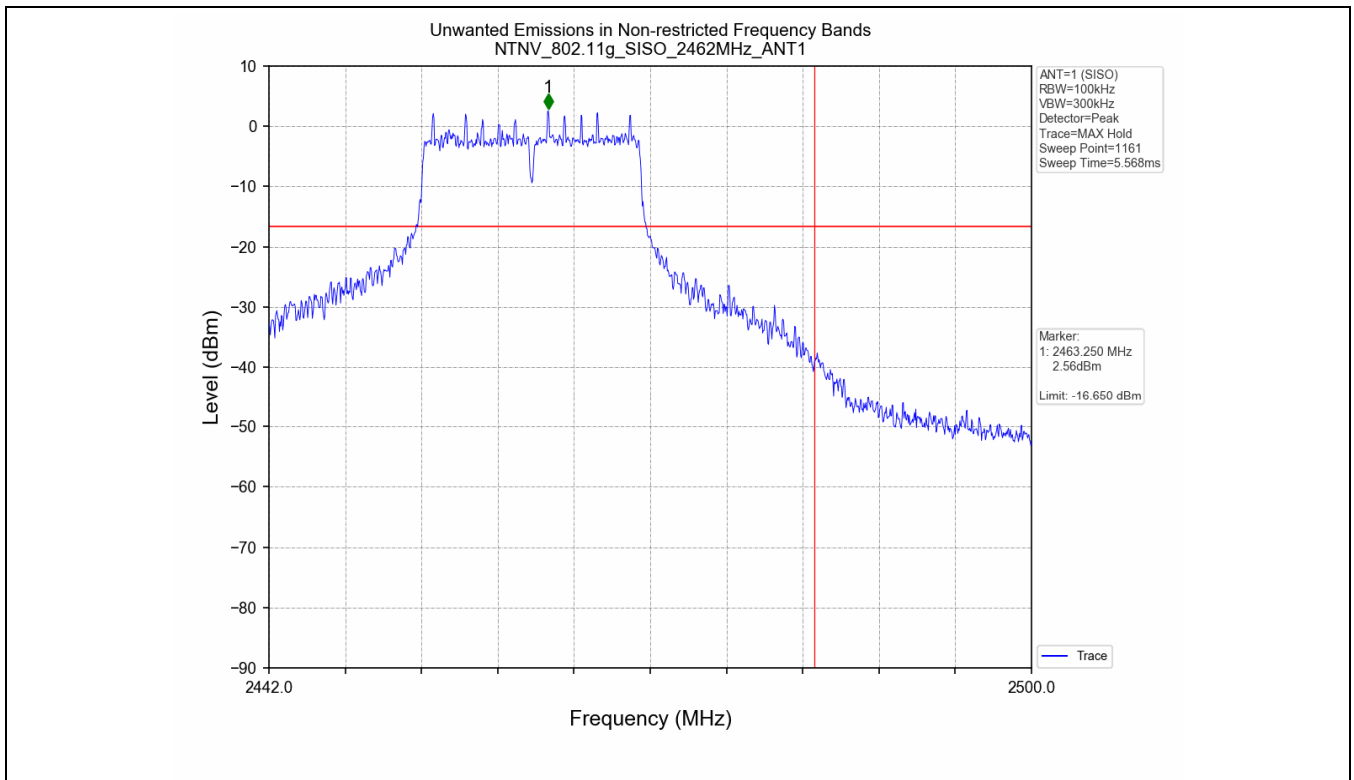
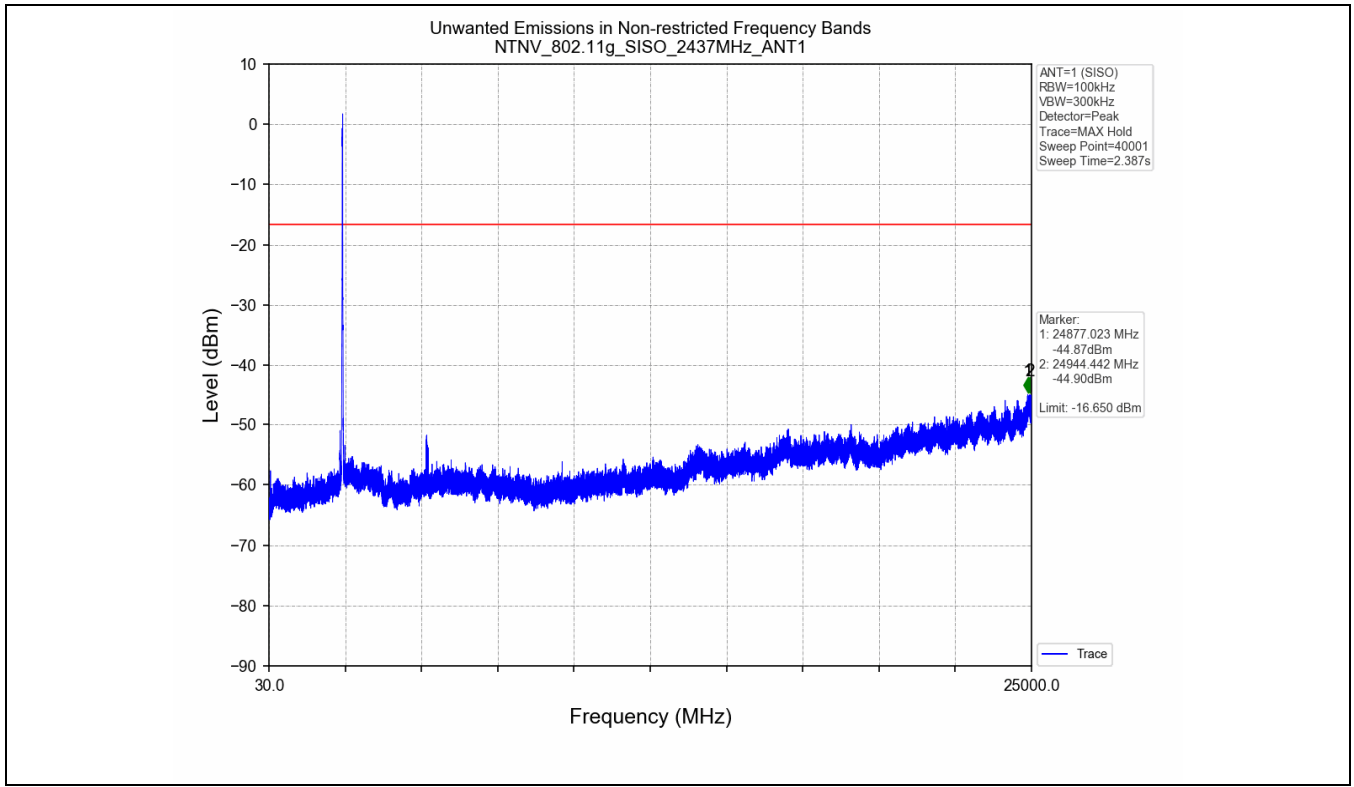


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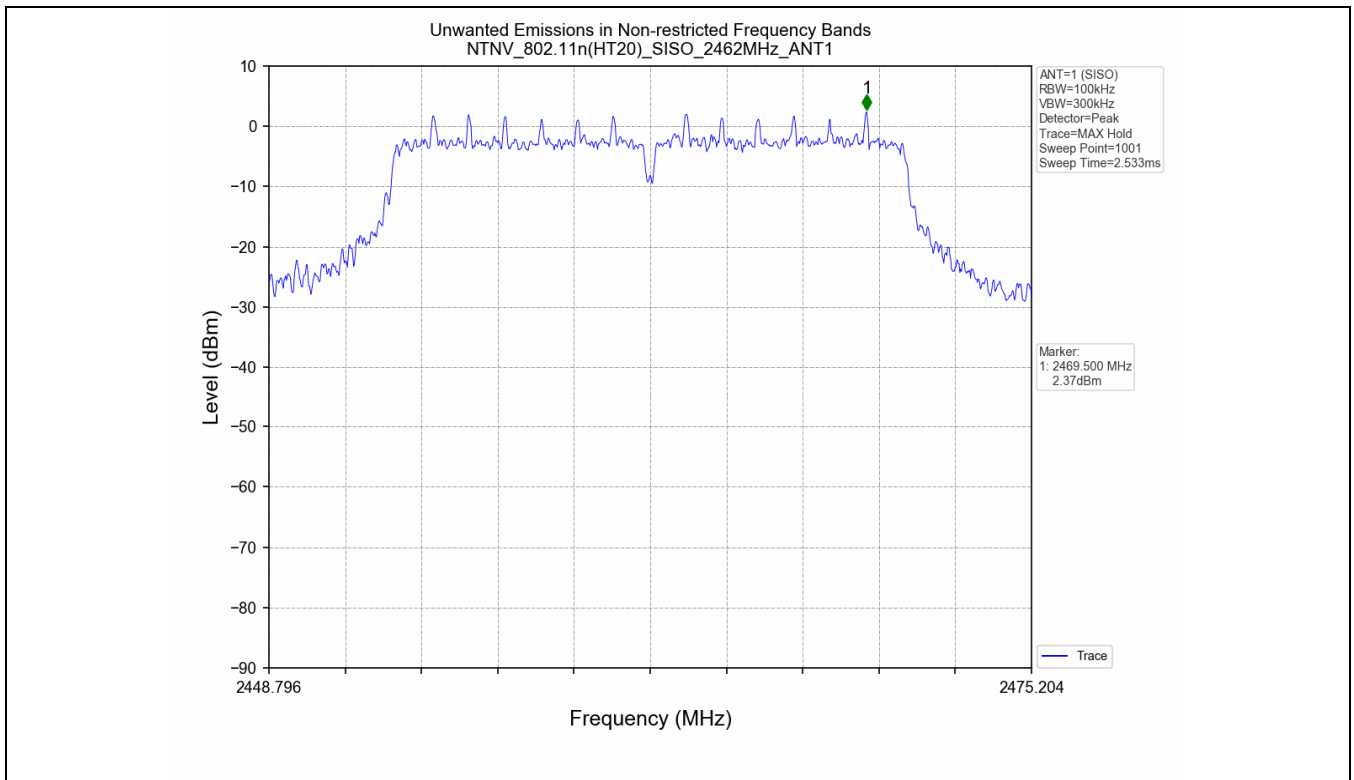
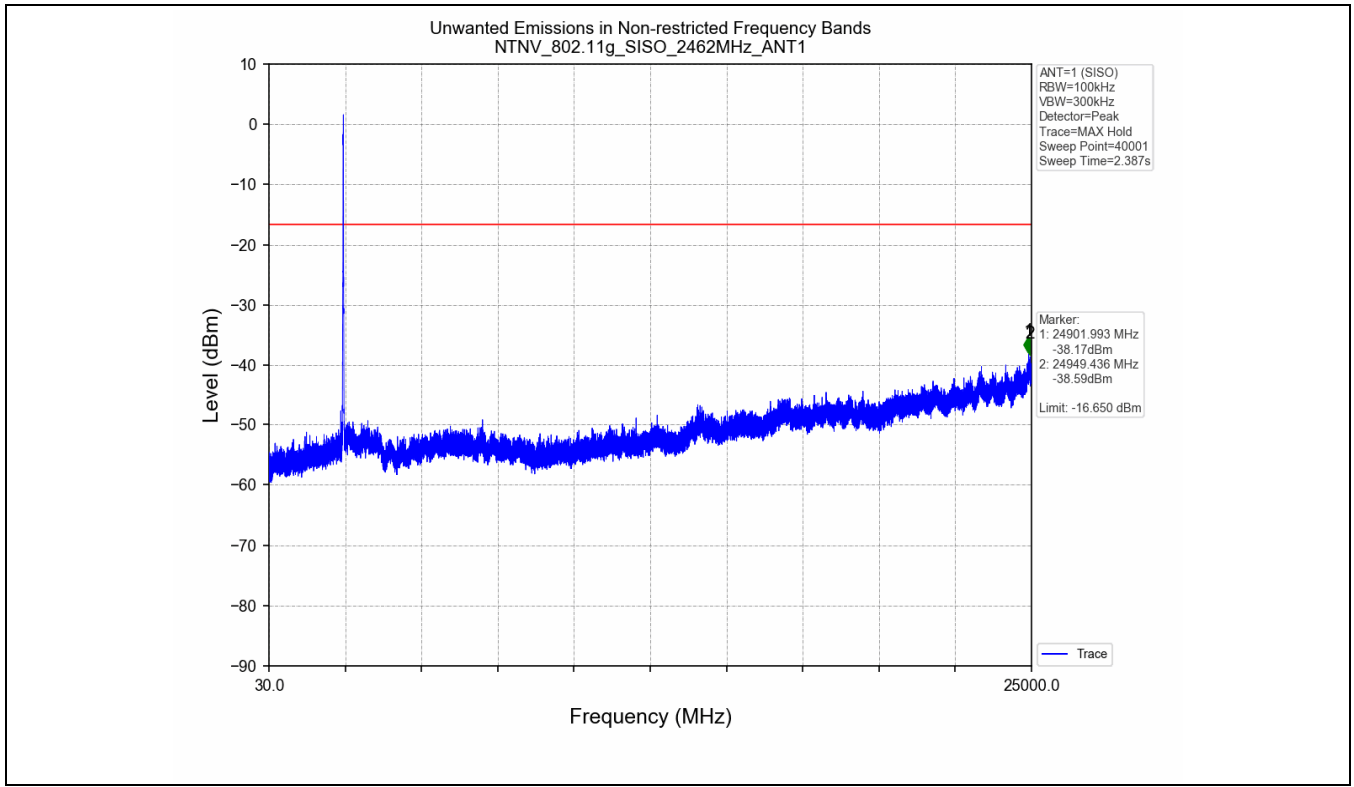


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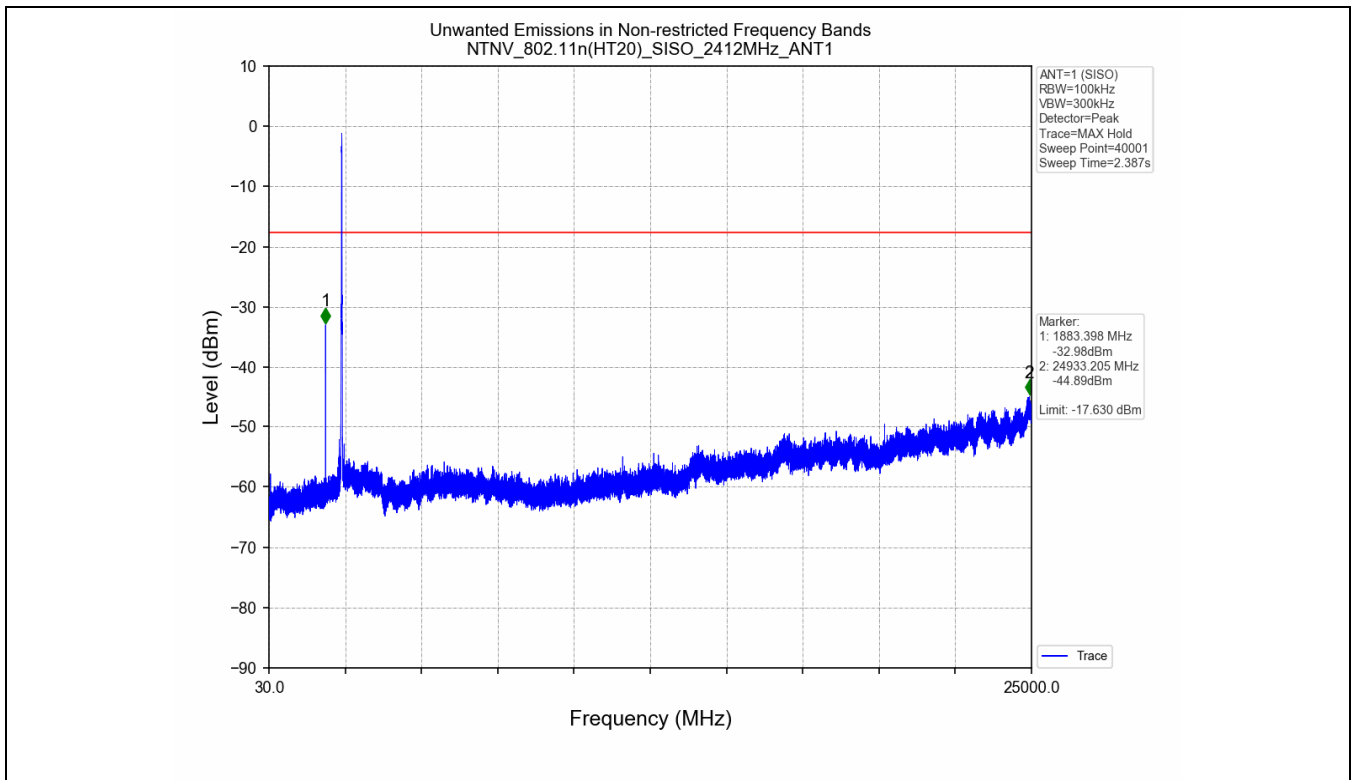
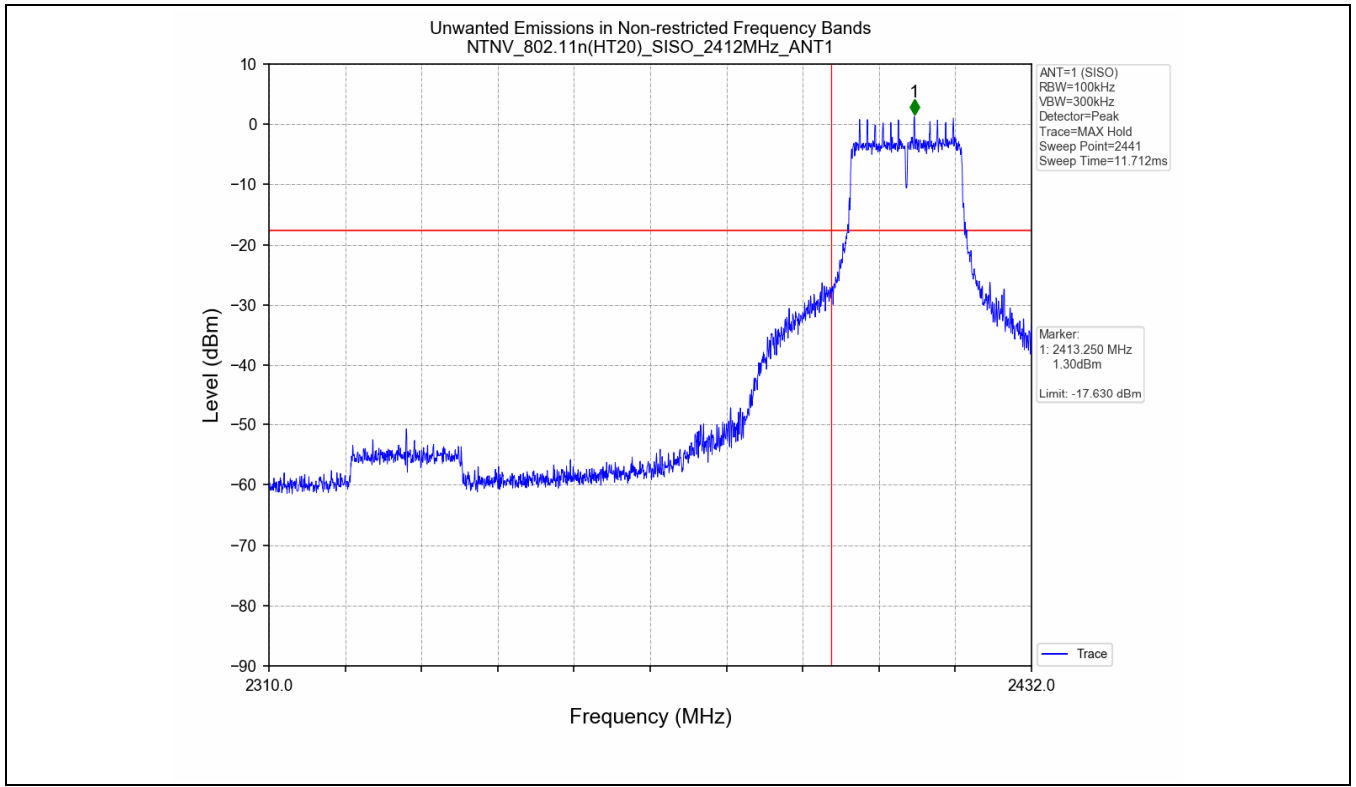
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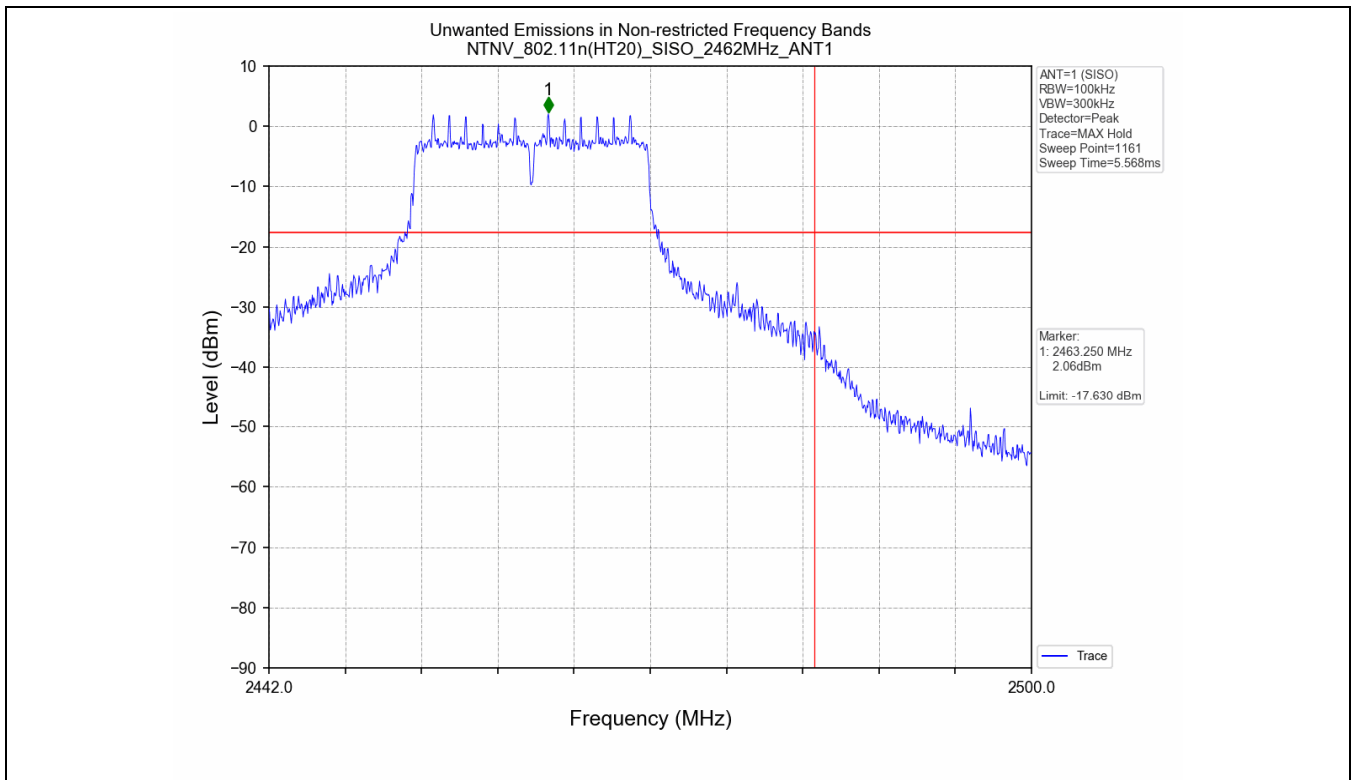
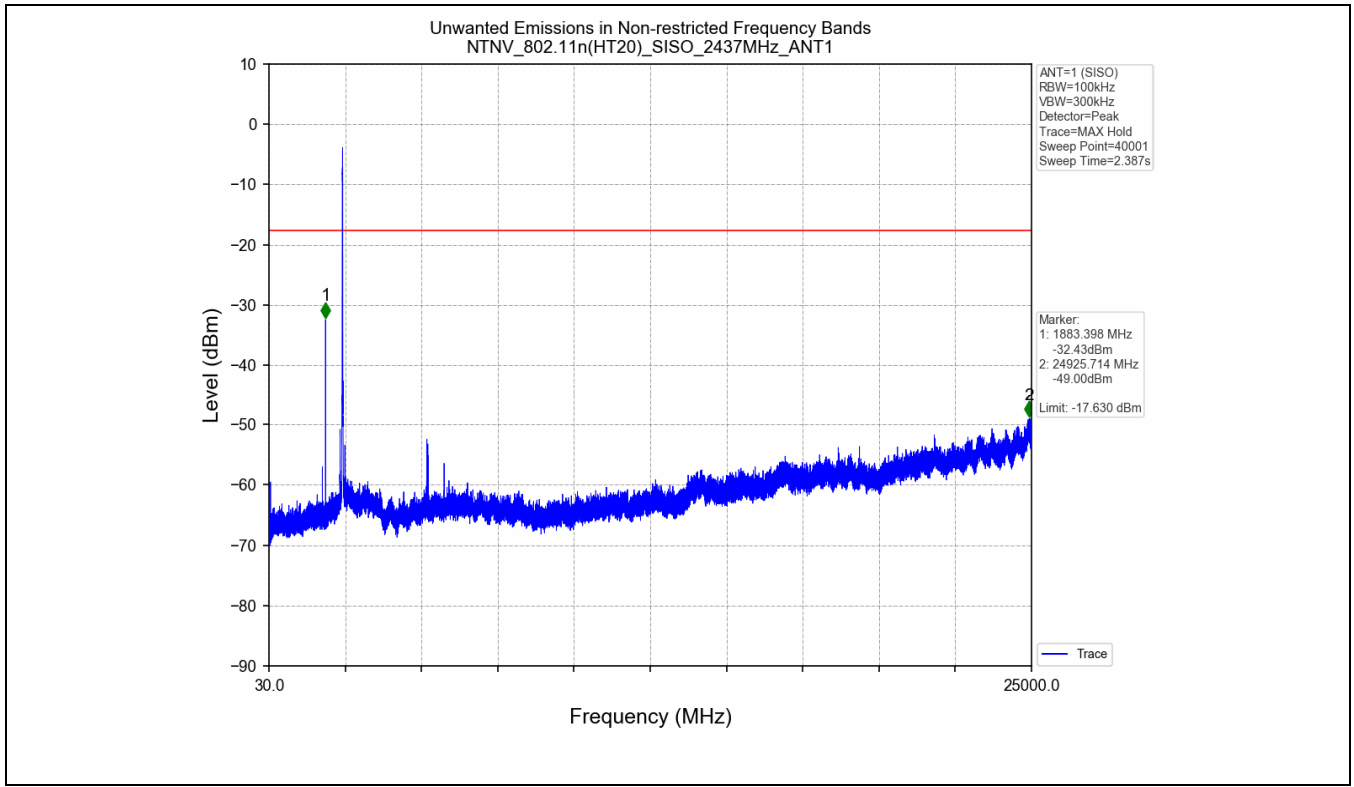
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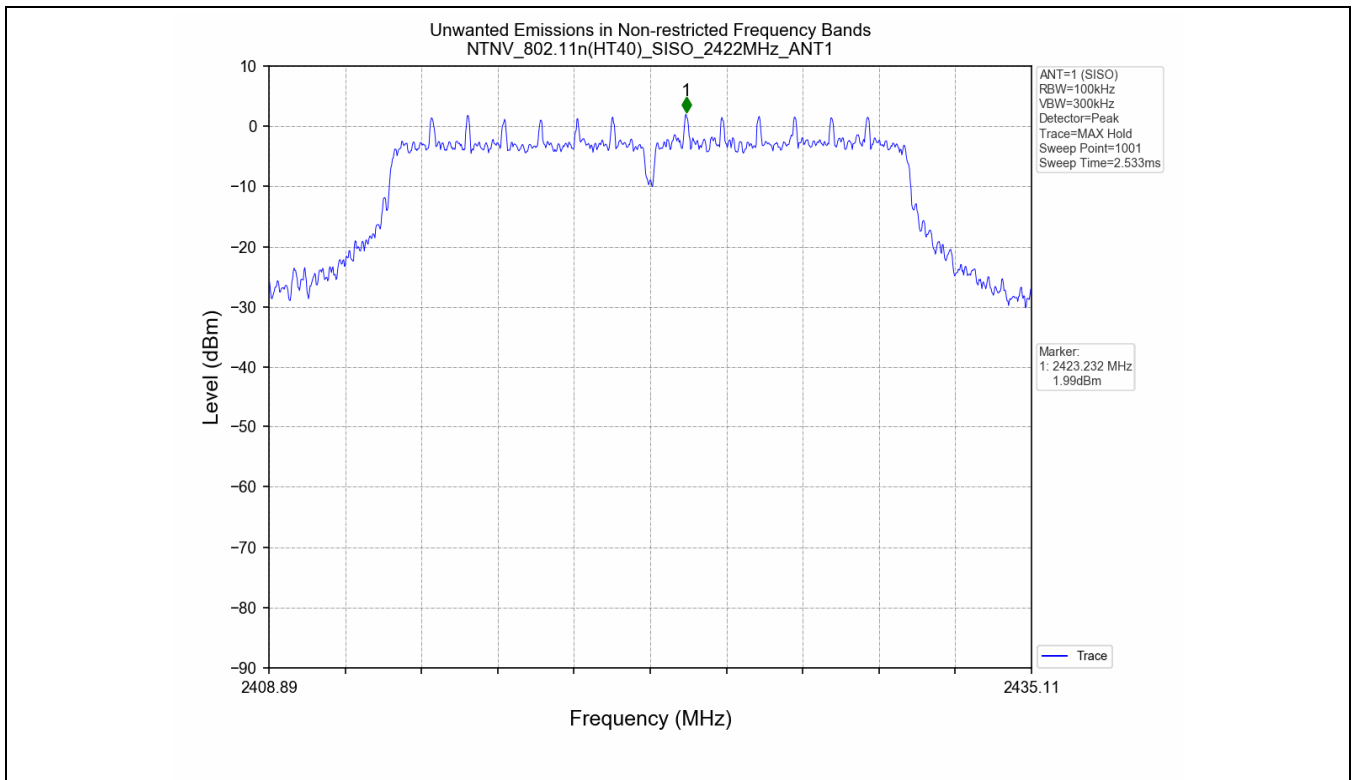
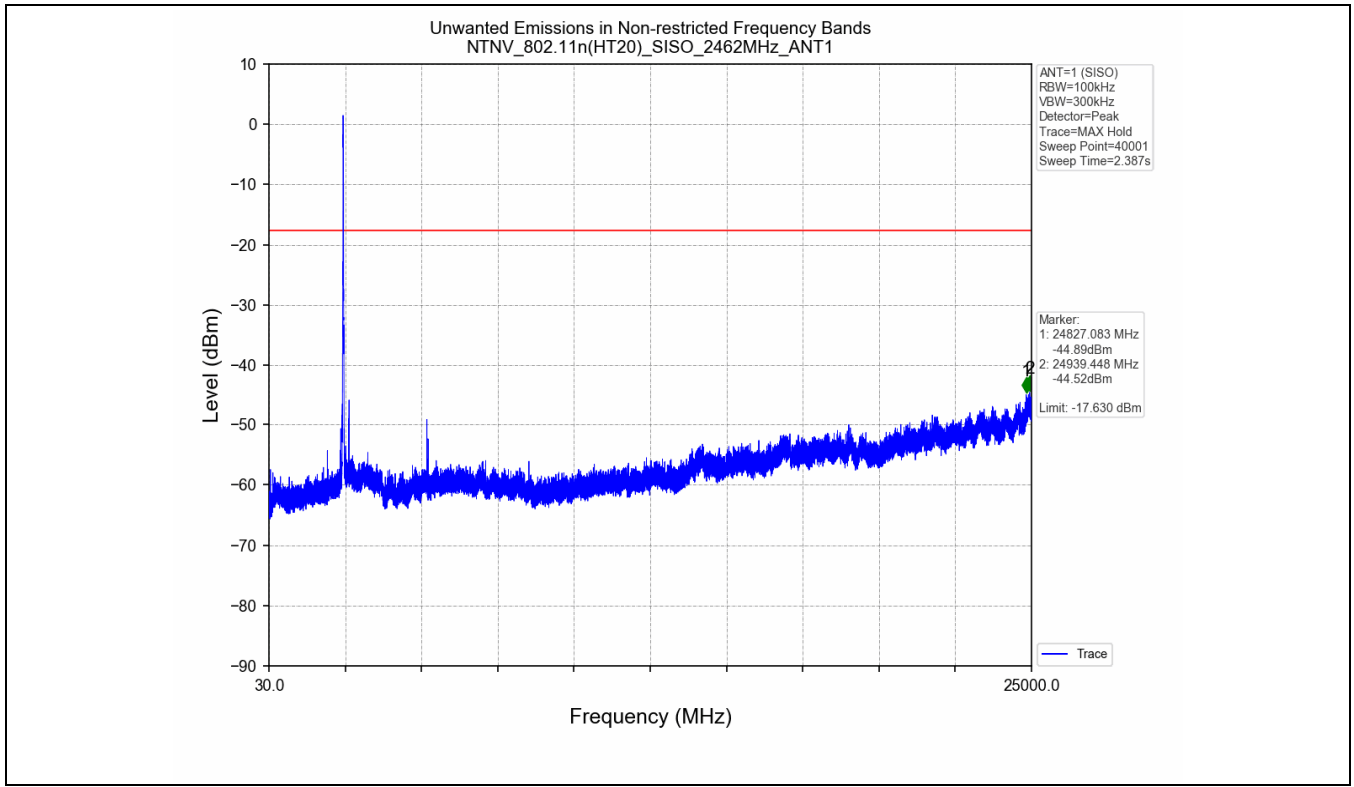
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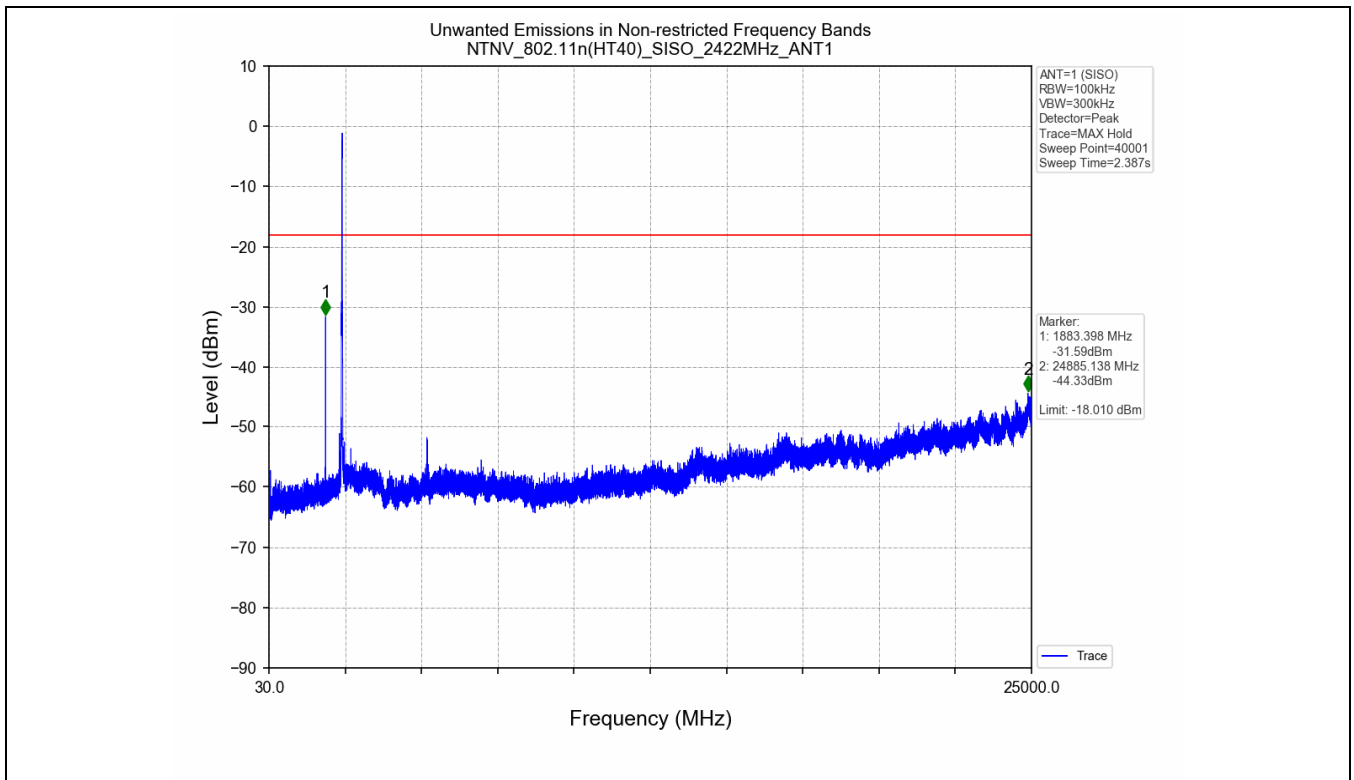
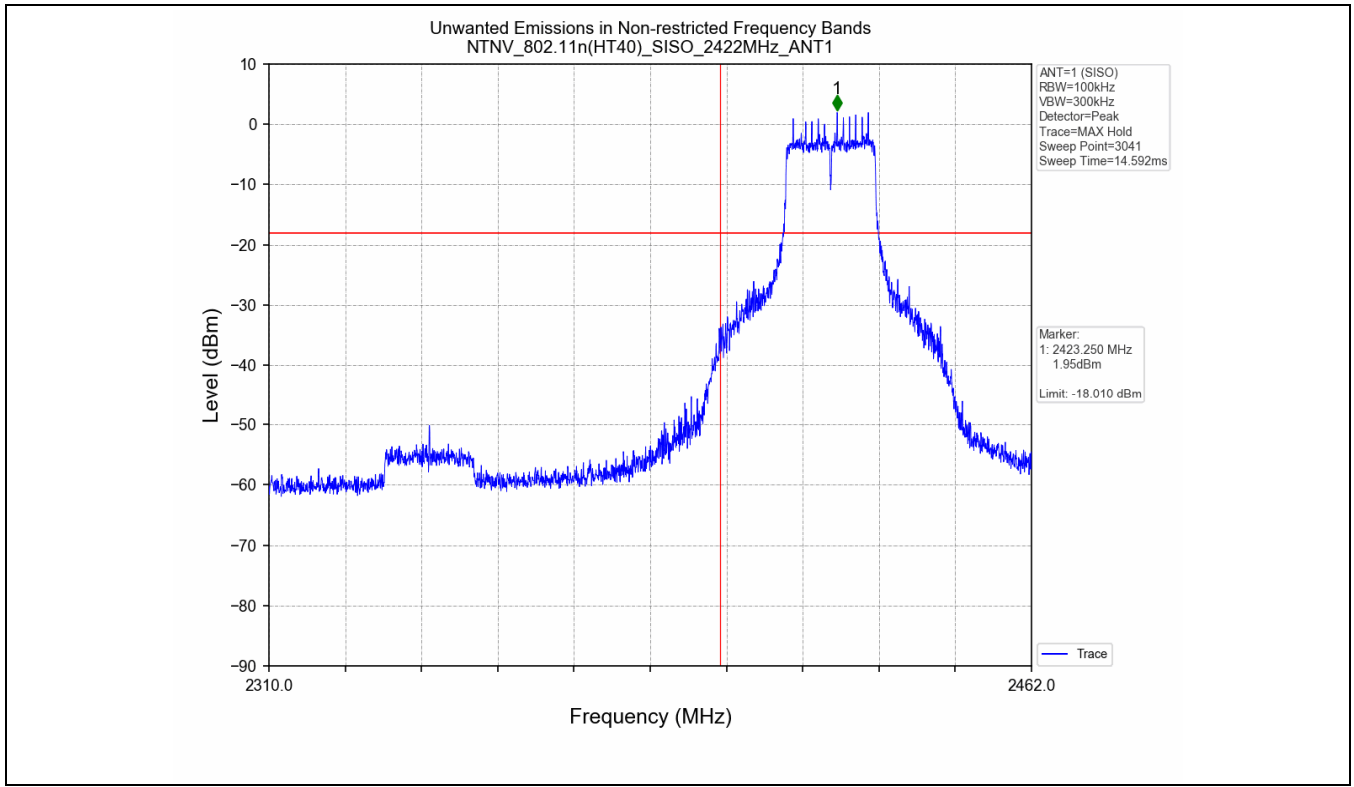
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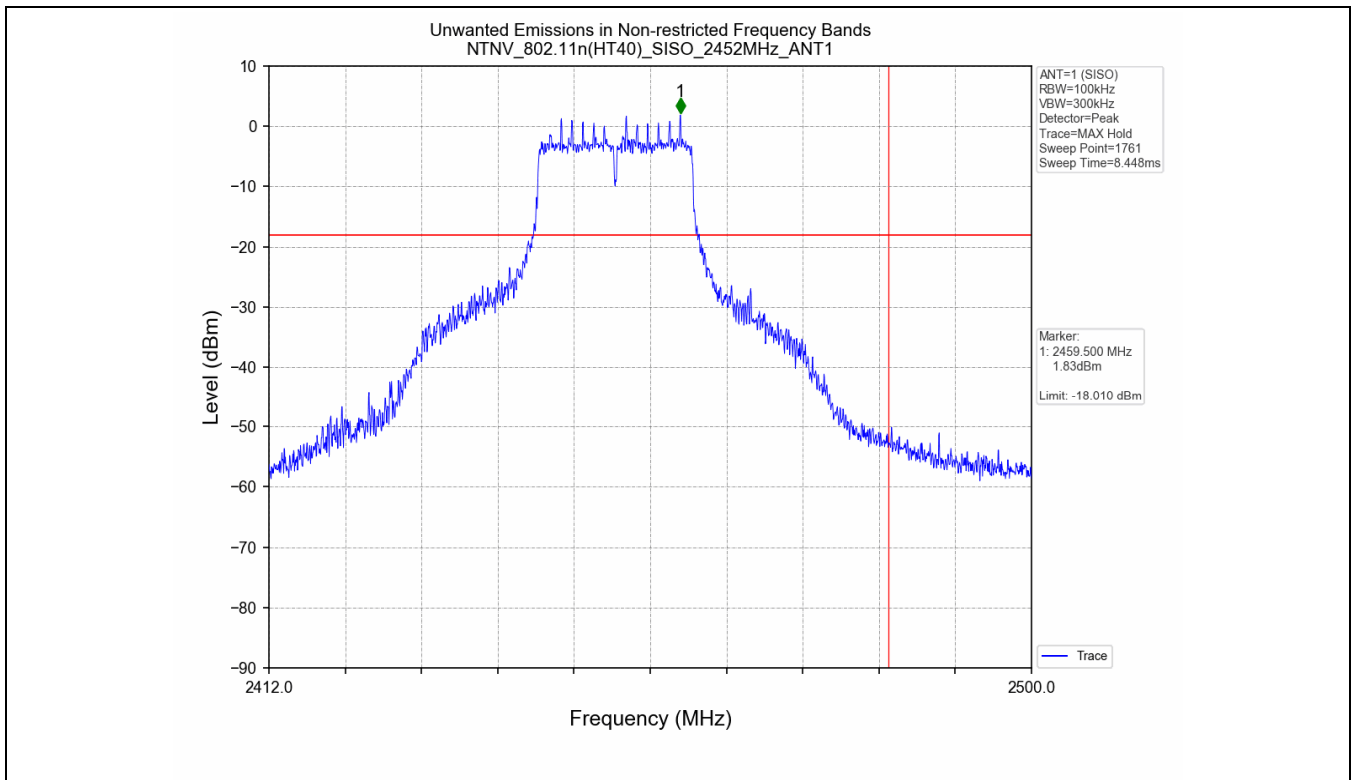
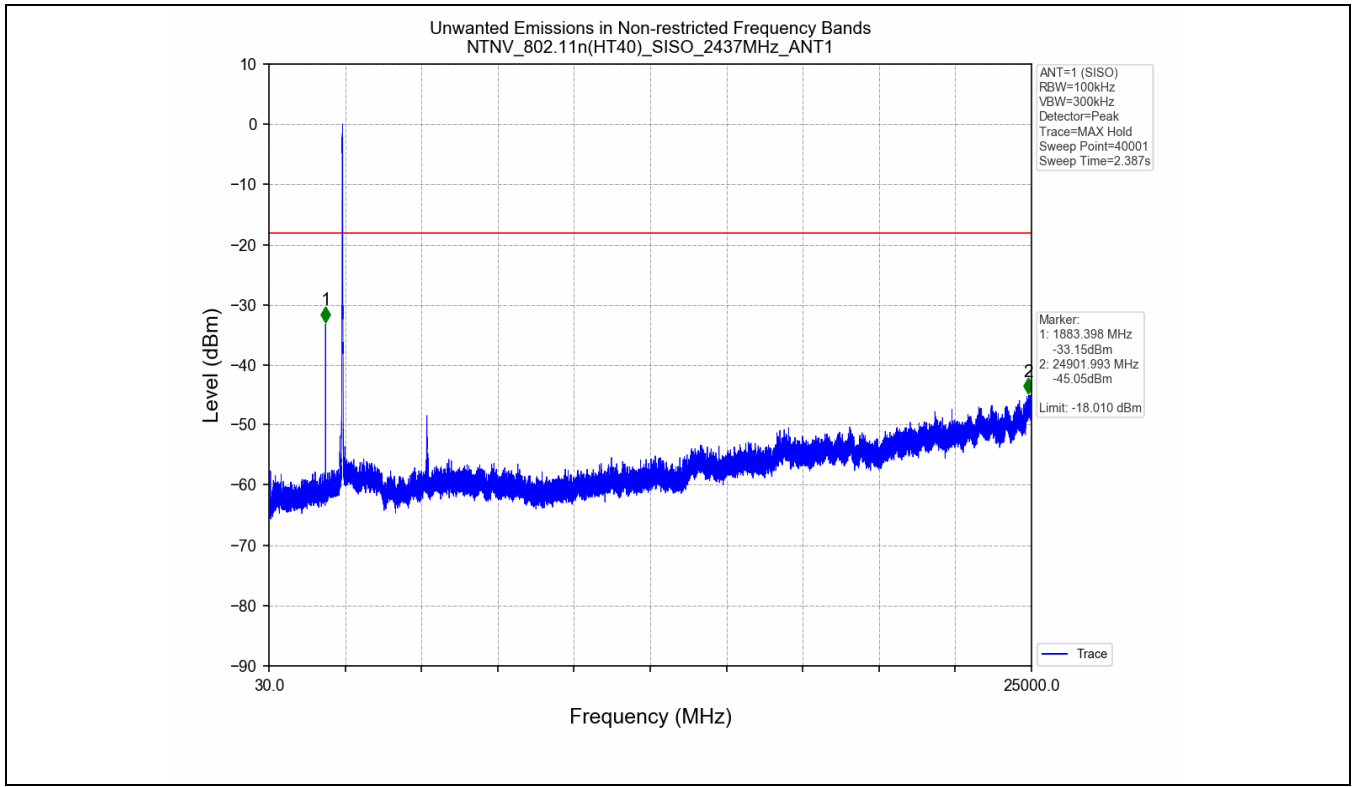
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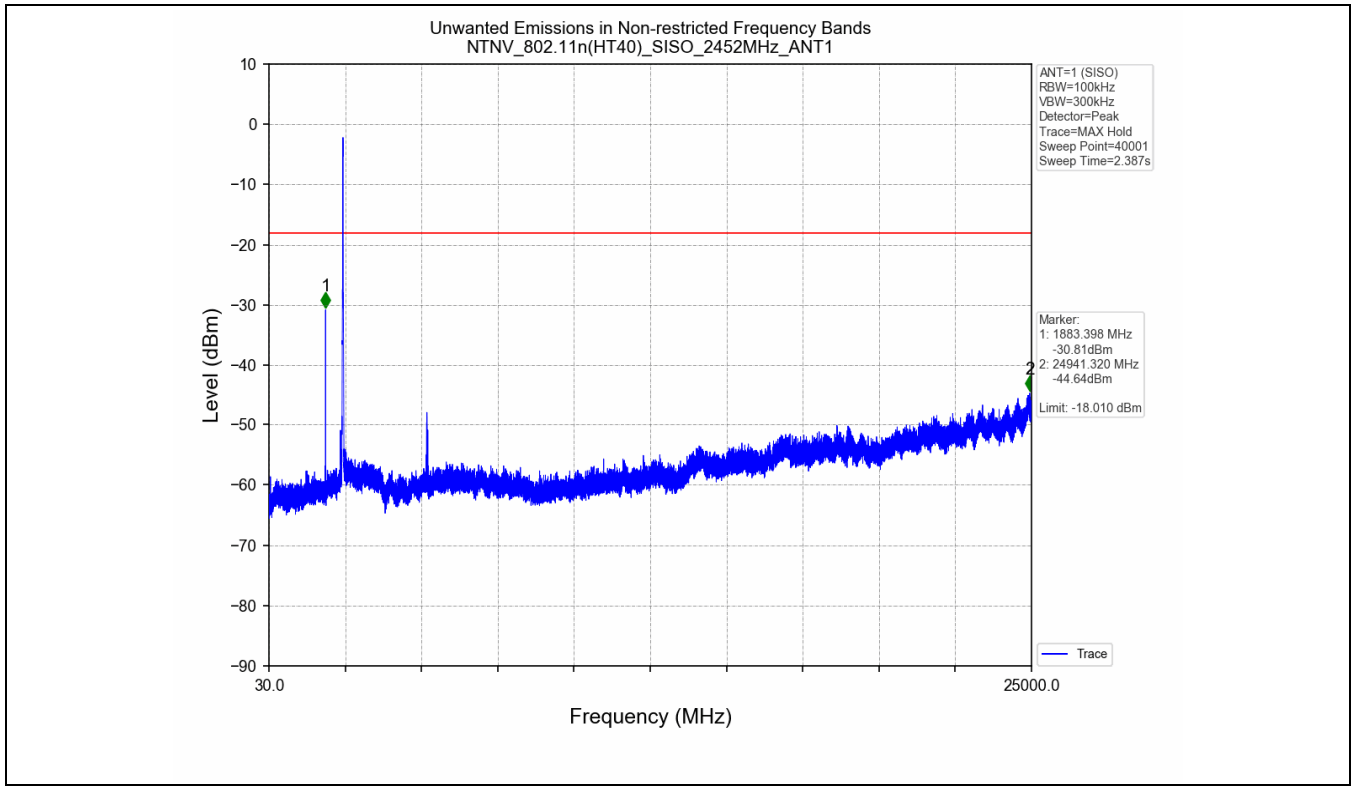
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**Appendix for 15.247- For crystal oscillator A Version of the WIFI module**

**1. Maximum Conducted Output Power**

**1.1 Test Result**

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	18.80	30	PASS
	2437	SISO	19.31	30	PASS
	2462	SISO	19.67	30	PASS
802.11g	2412	SISO	20.25	30	PASS
	2437	SISO	20.58	30	PASS
	2462	SISO	20.73	30	PASS
802.11n(HT20)	2412	SISO	20.30	30	PASS
	2437	SISO	15.16	30	PASS
	2462	SISO	20.88	30	PASS
802.11n(HT40)	2422	SISO	20.39	30	PASS
	2437	SISO	20.48	30	PASS
	2452	SISO	21.10	30	PASS

**2. Unwanted Emissions in Non-restricted Frequency Bands**

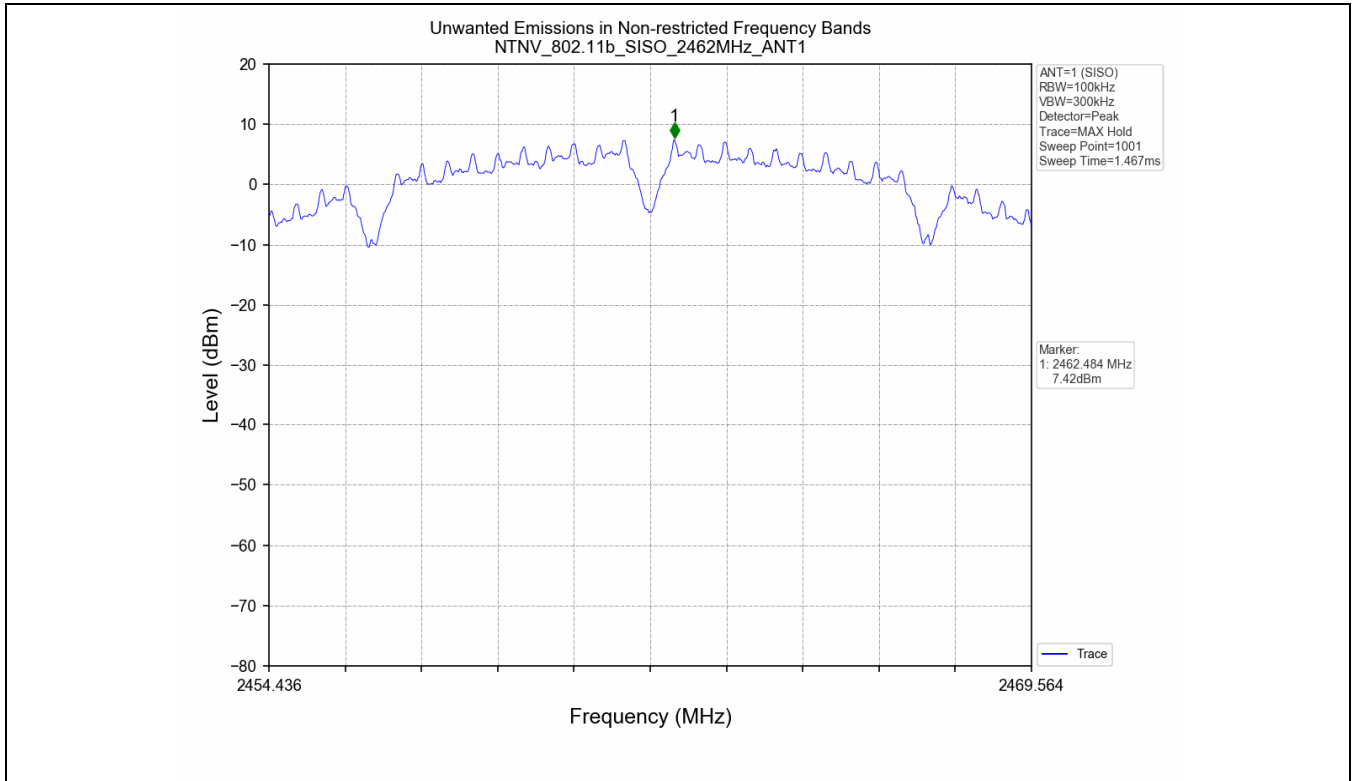
**2.1 Test Result**

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-12.58	PASS
	2437	SISO	1	Refer to test graph	-12.58	PASS
	2462	SISO	1	Refer to test graph	-12.58	PASS
802.11g	2412	SISO	1	Refer to test graph	-17.48	PASS
	2437	SISO	1	Refer to test graph	-17.48	PASS
	2462	SISO	1	Refer to test graph	-17.48	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-17.38	PASS
	2437	SISO	1	Refer to test graph	-17.38	PASS
	2462	SISO	1	Refer to test graph	-17.38	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-16.71	PASS
	2437	SISO	1	Refer to test graph	-16.71	PASS
	2452	SISO	1	Refer to test graph	-16.71	PASS

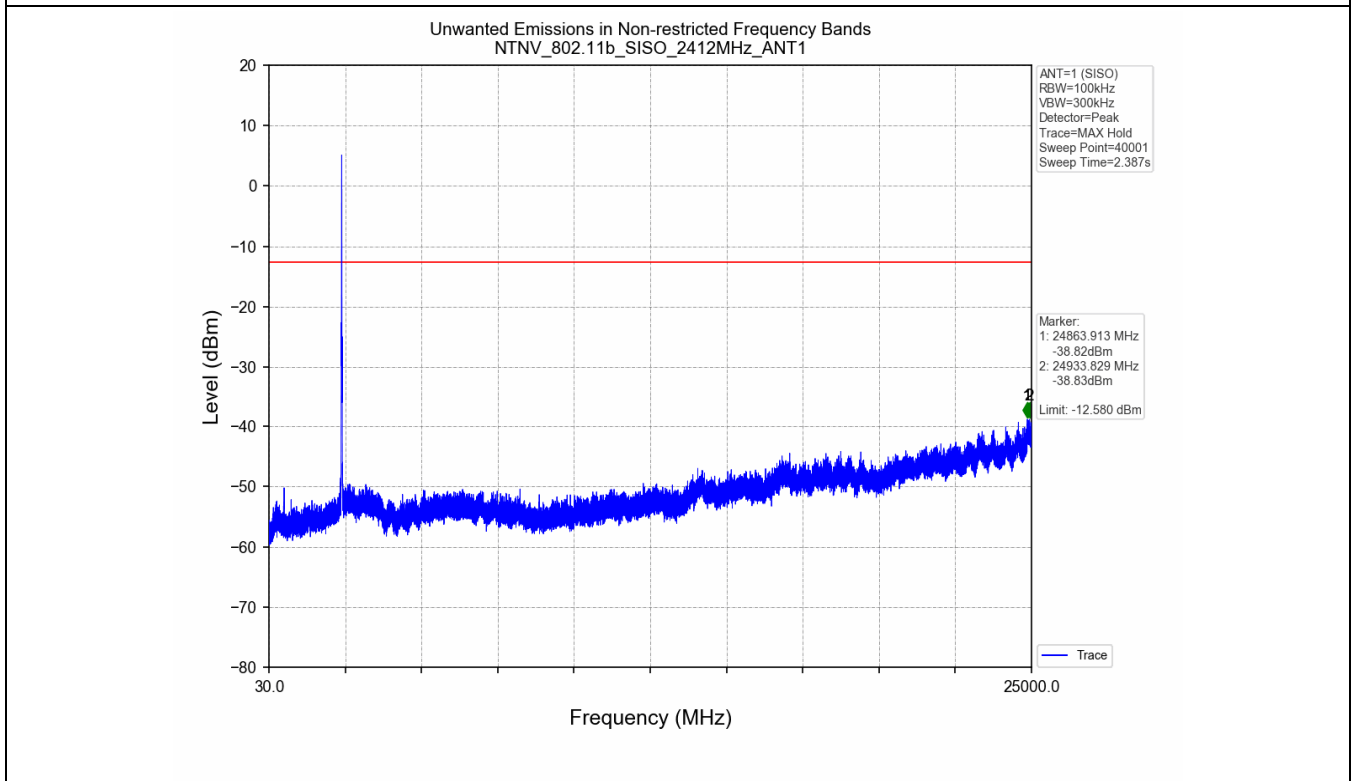
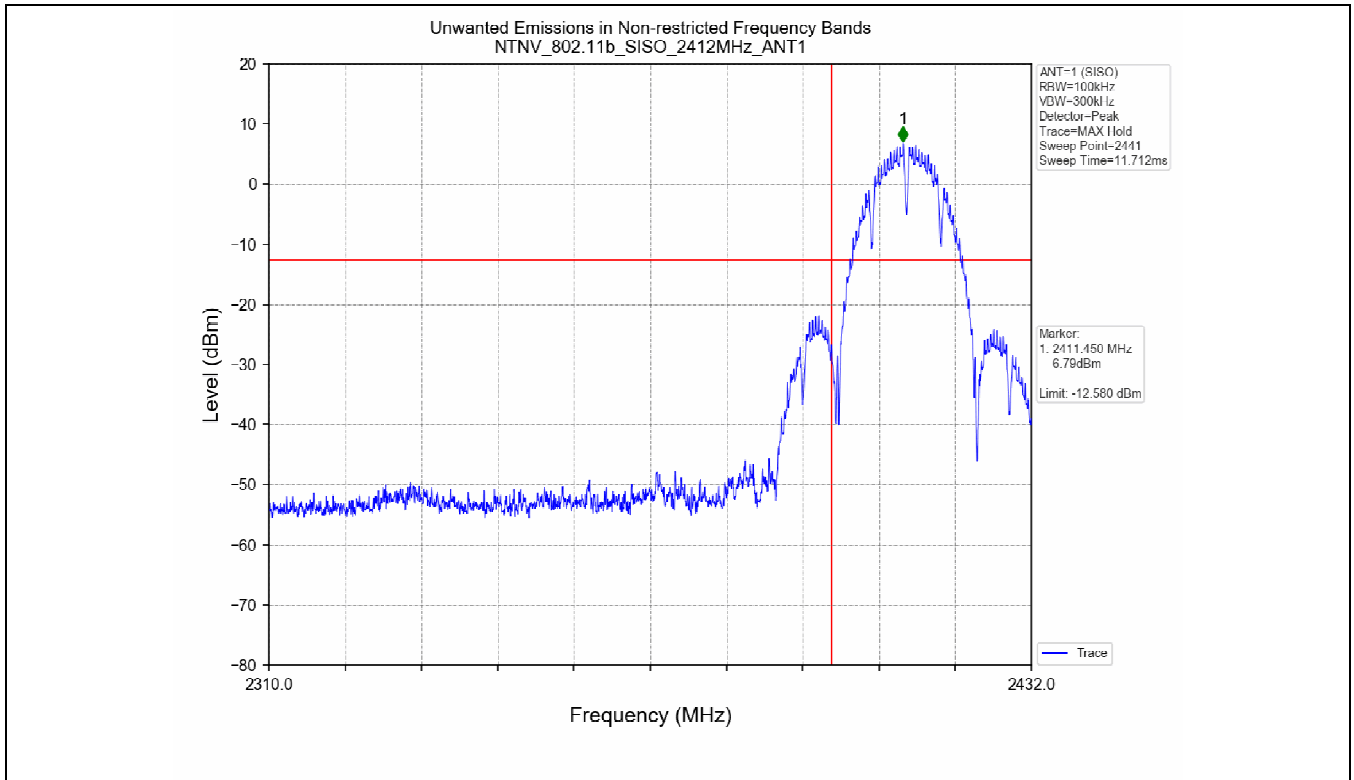


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### 2.2 Test Graph

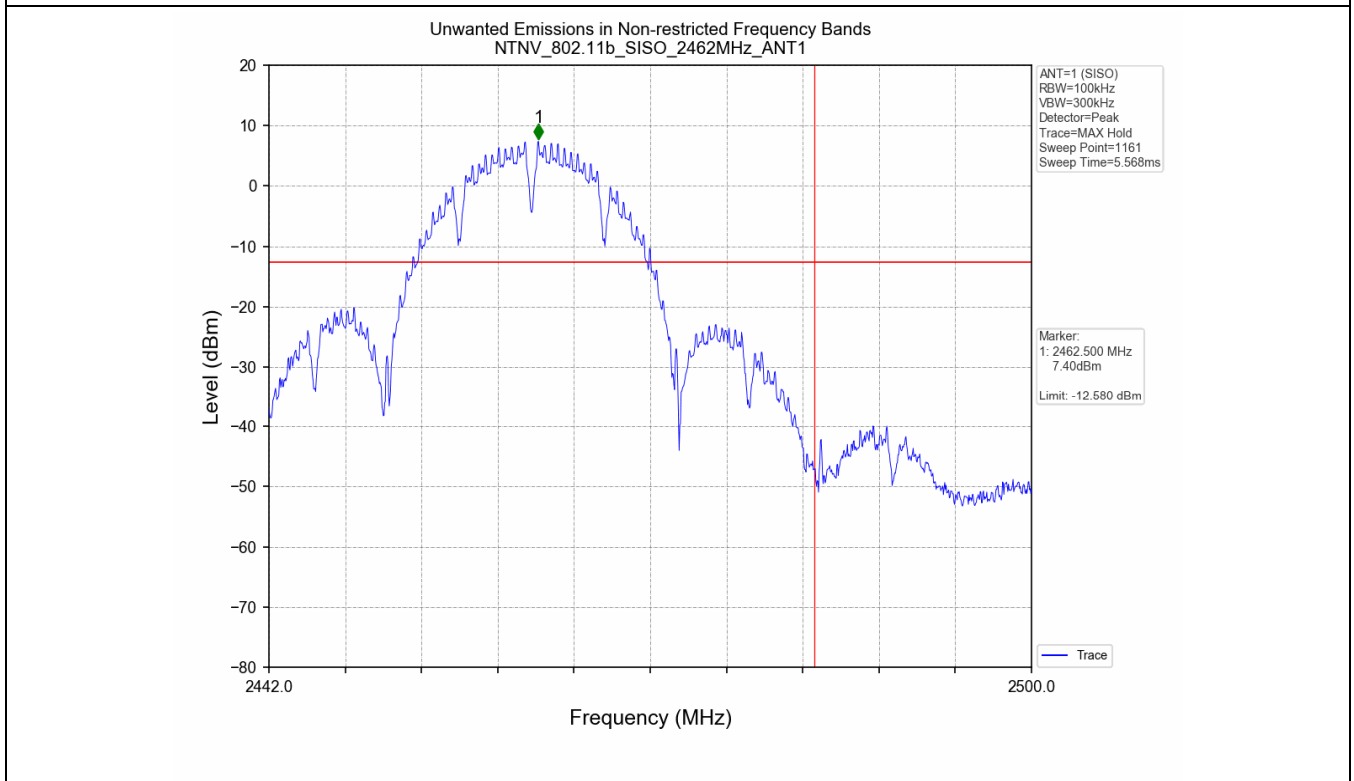
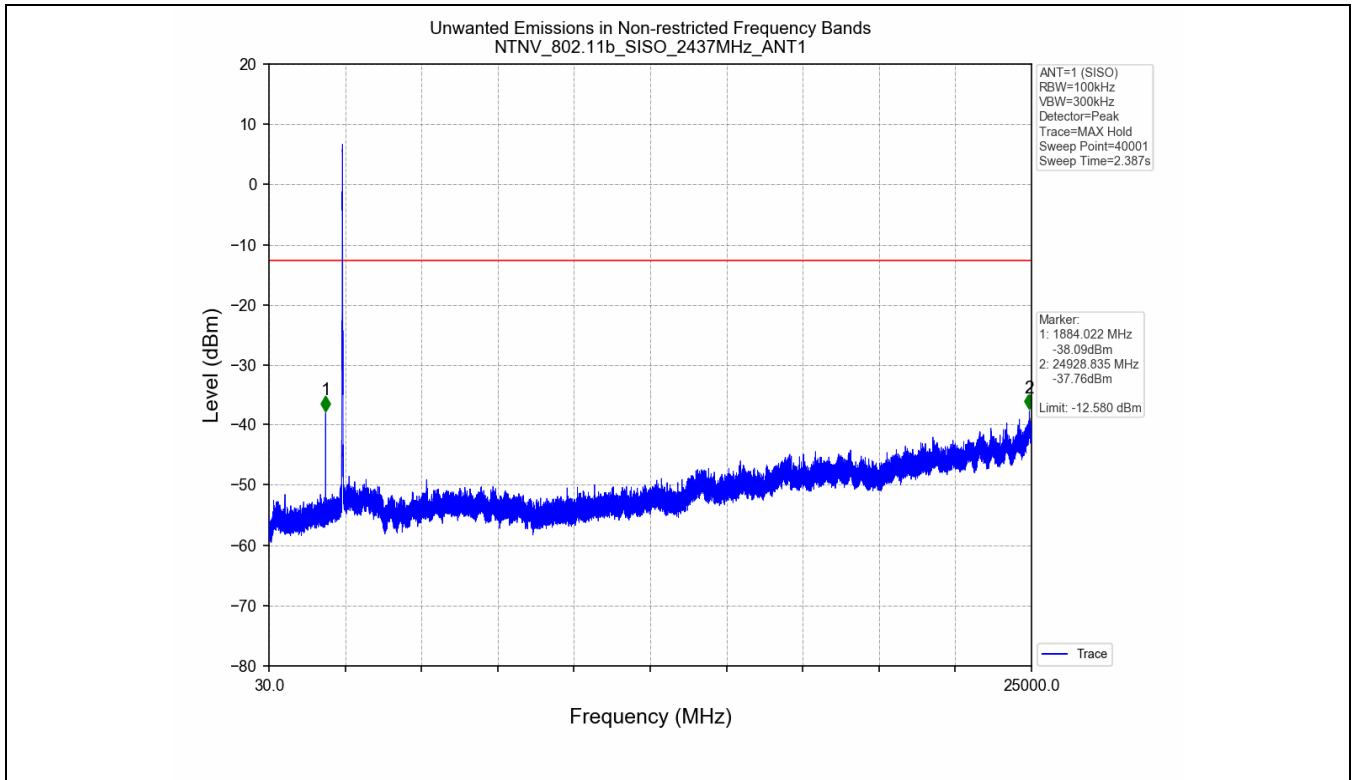


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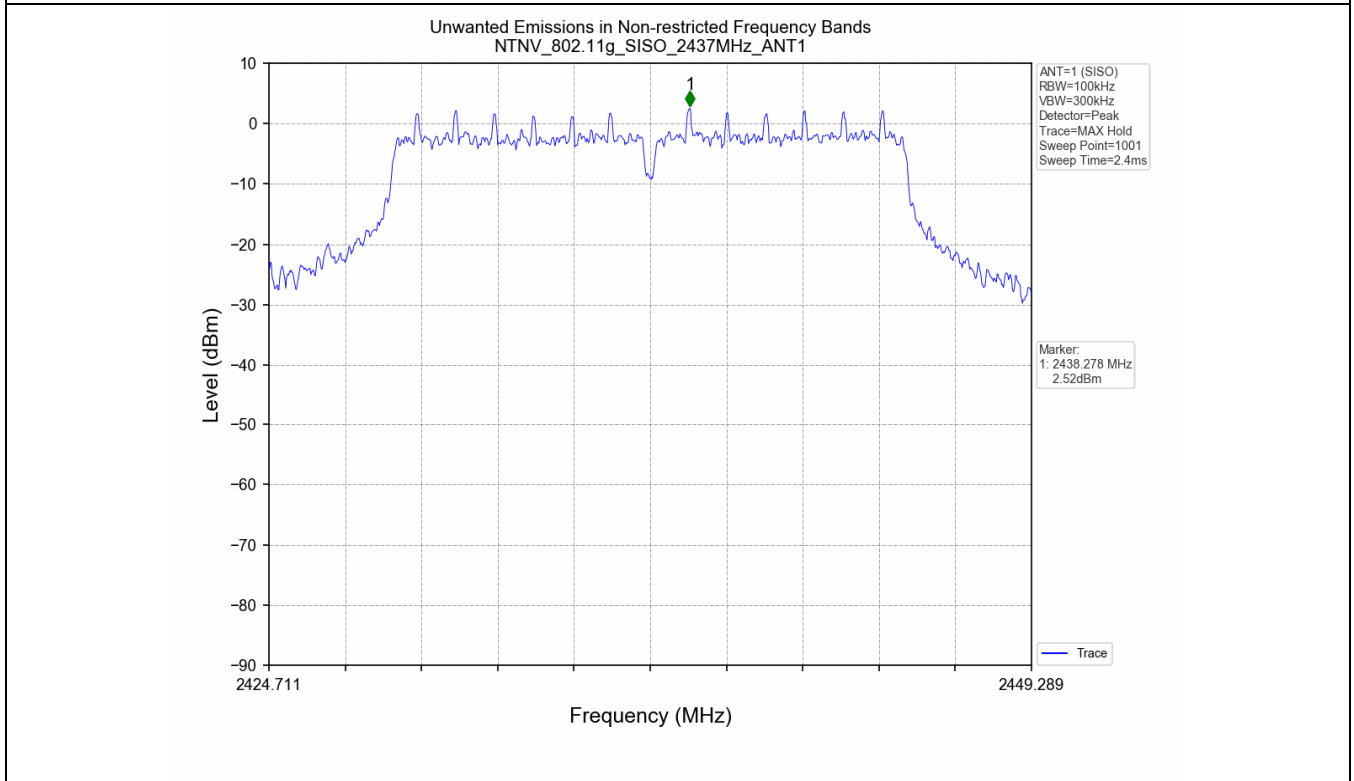
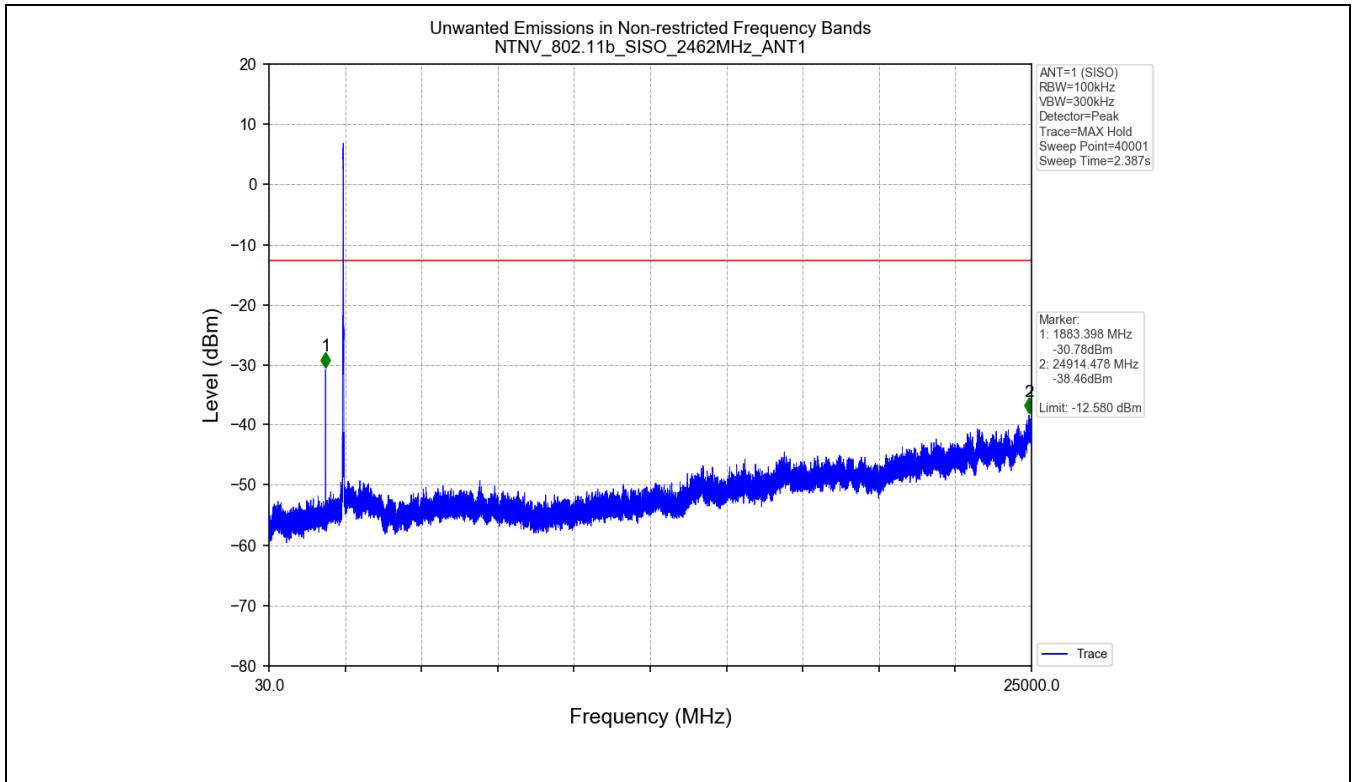
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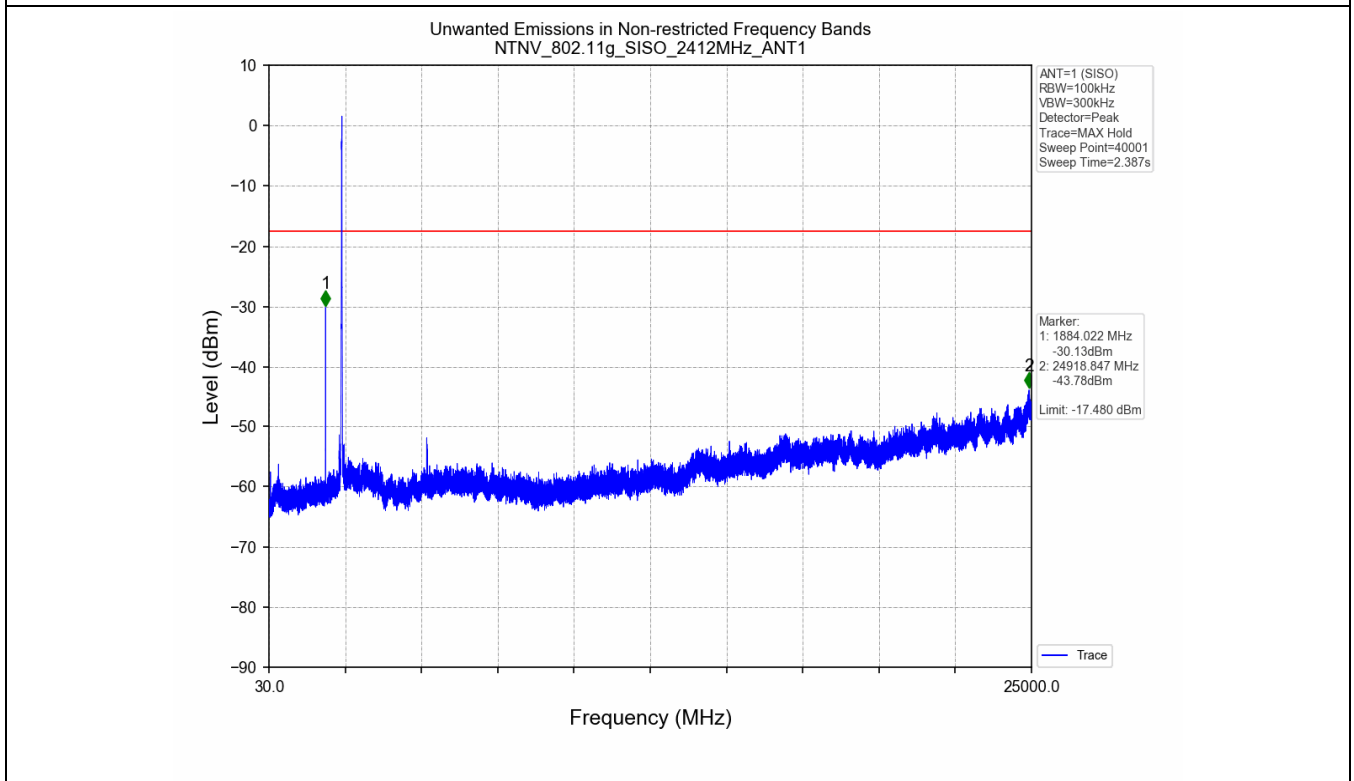
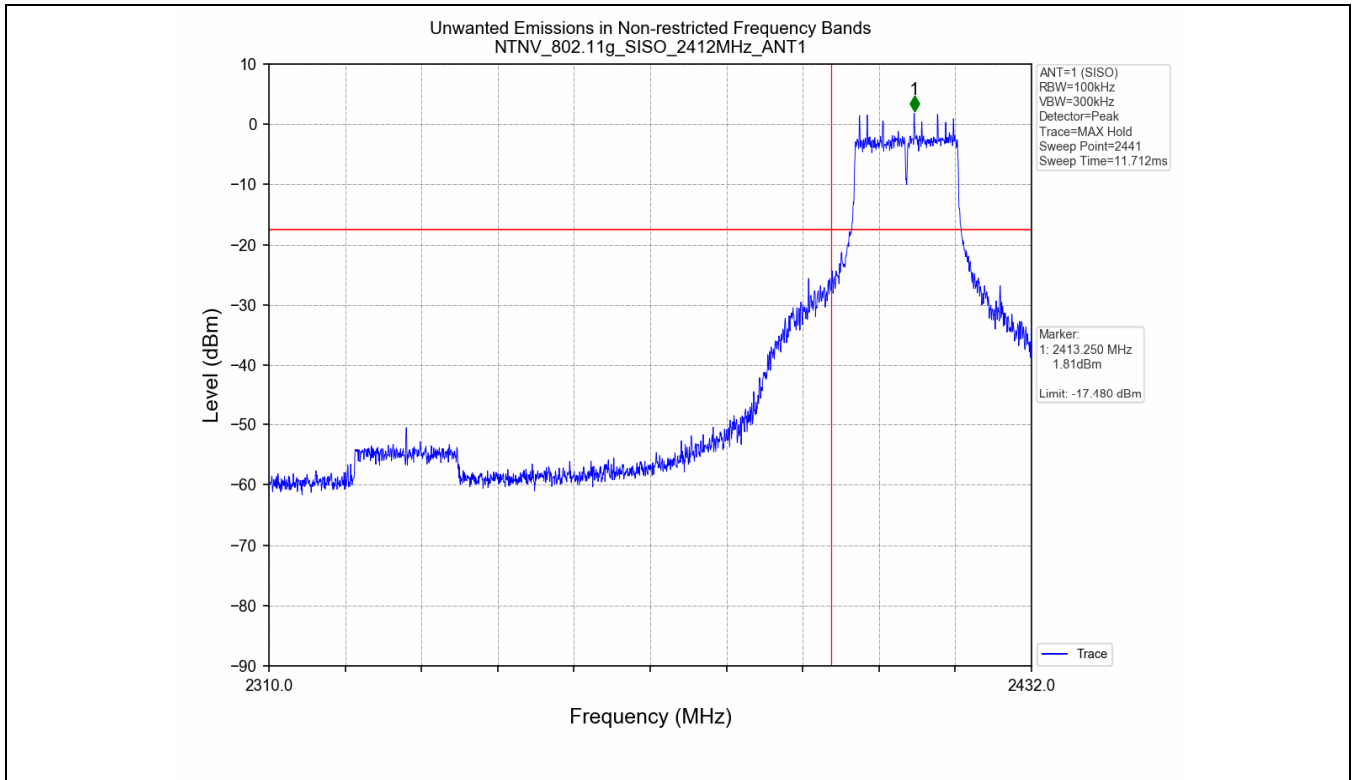
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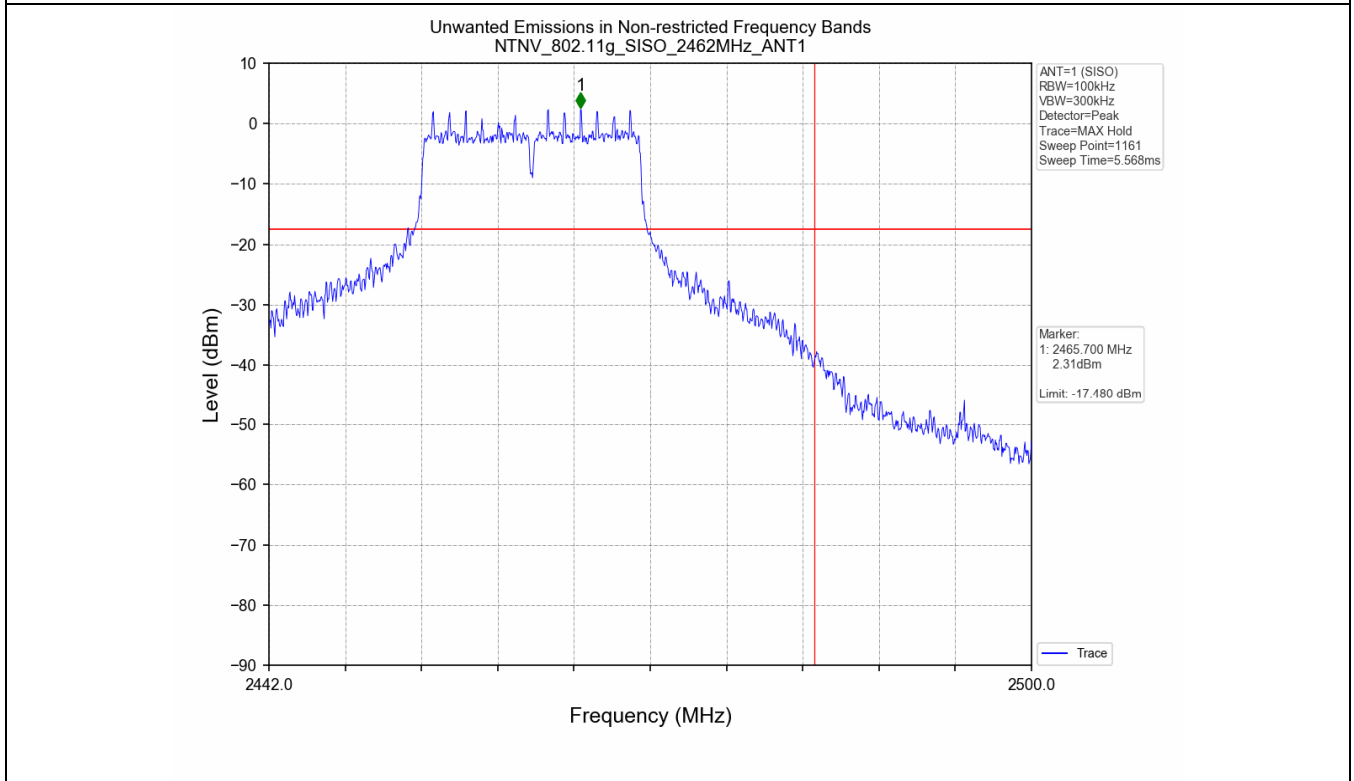
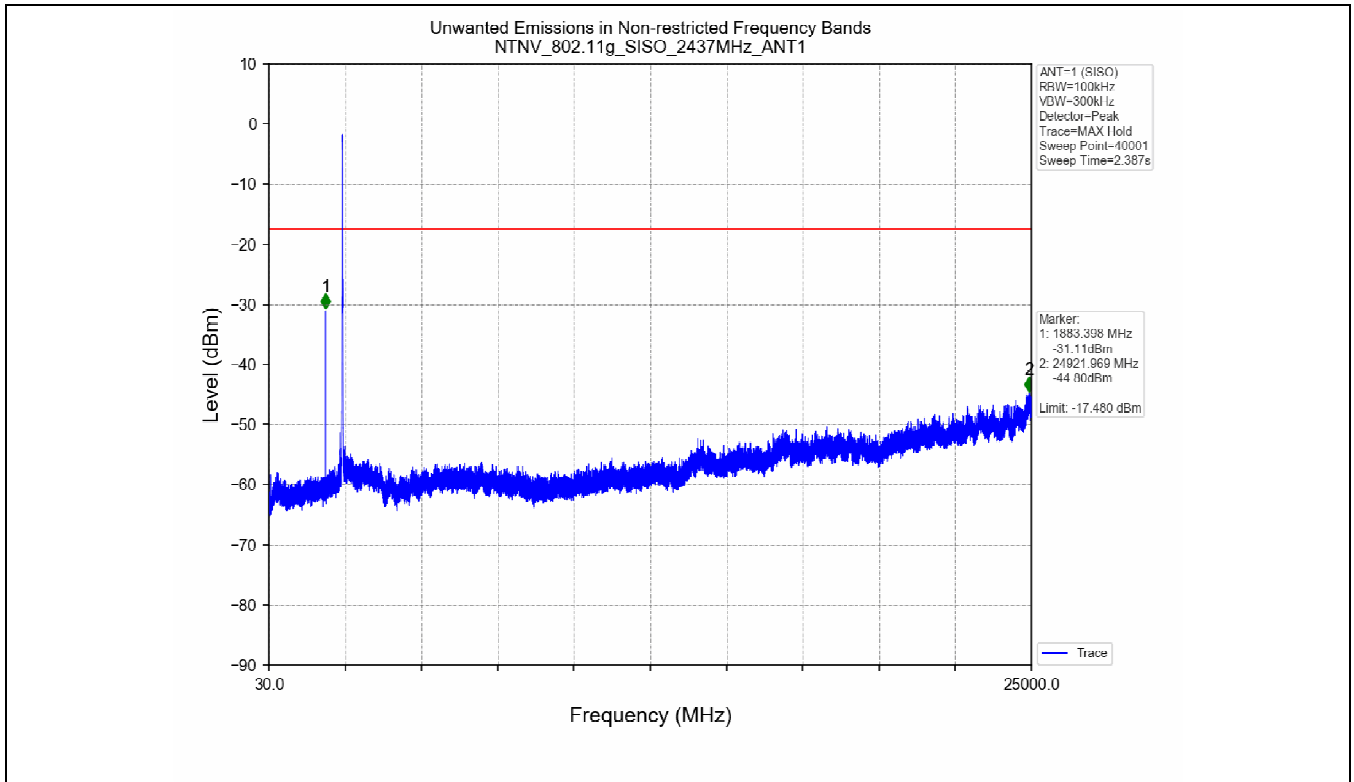
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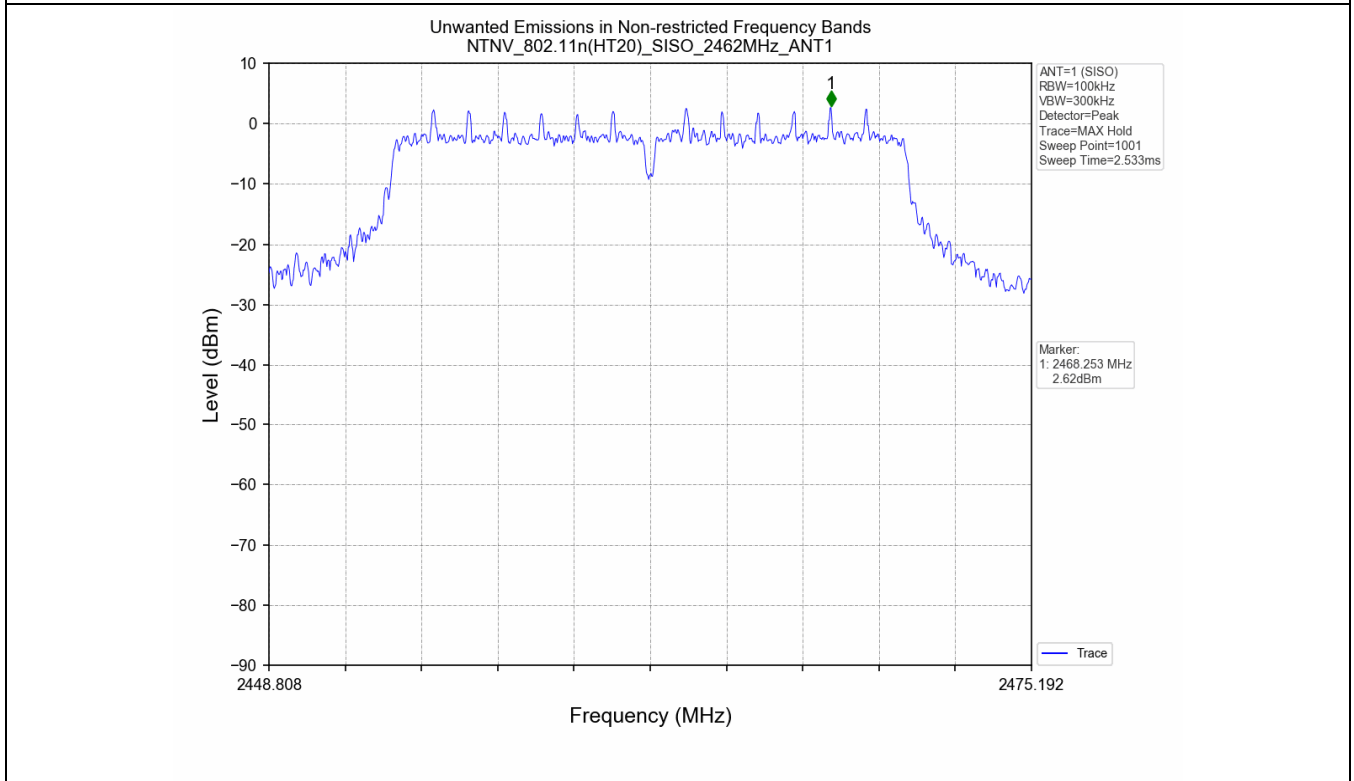
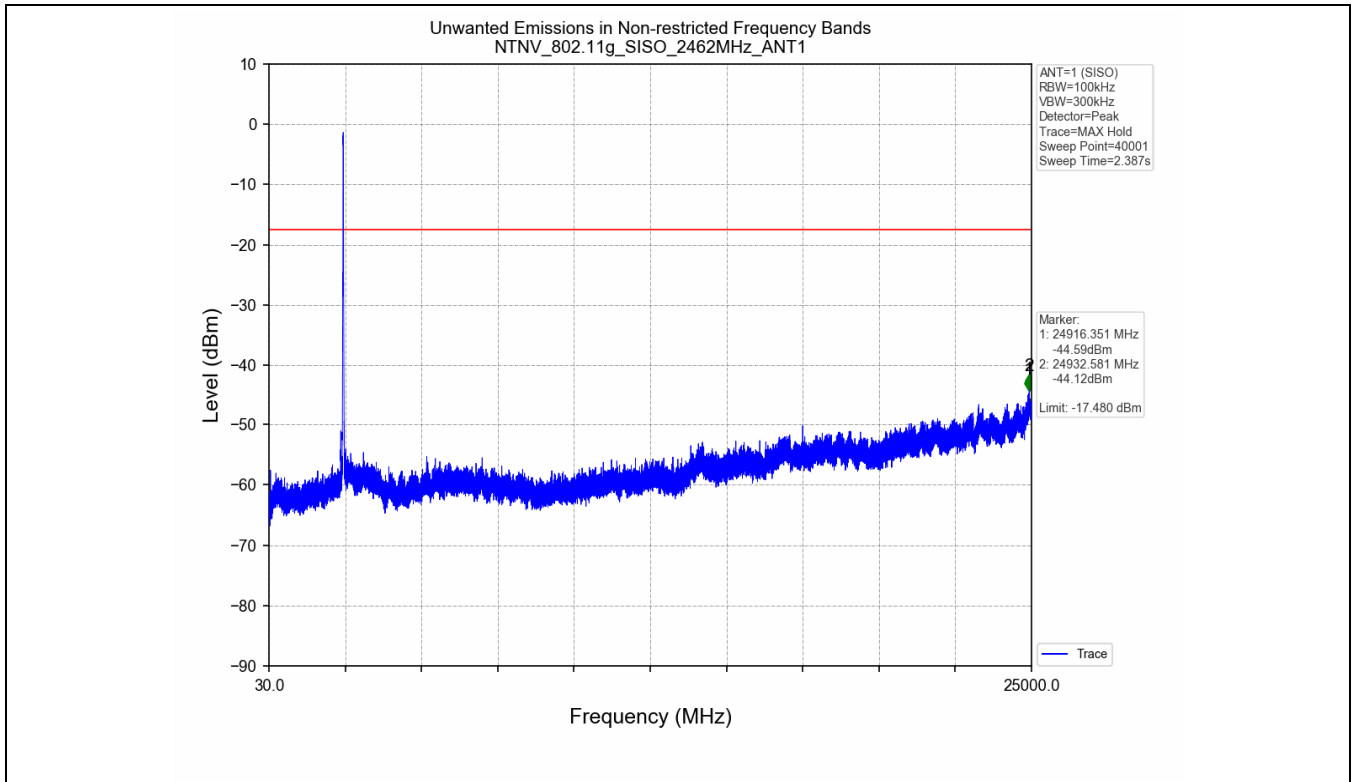
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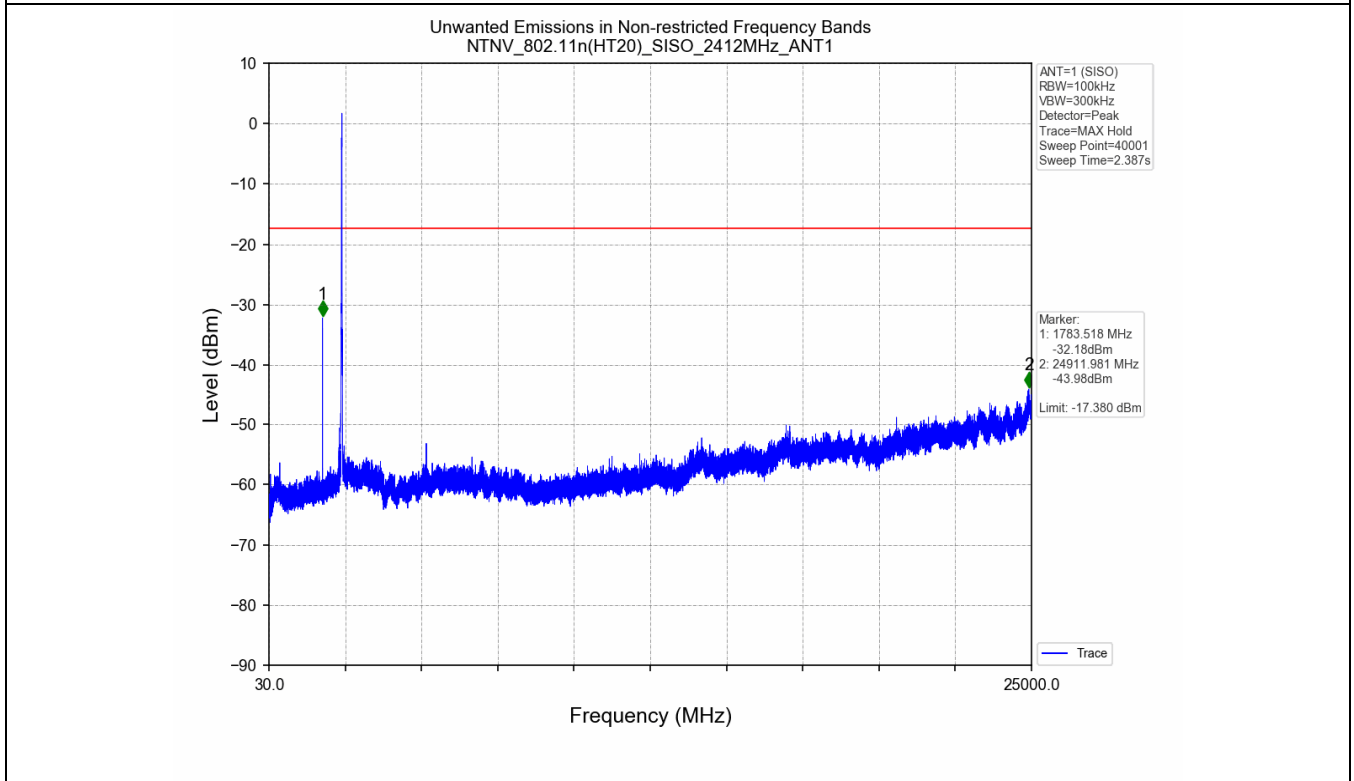
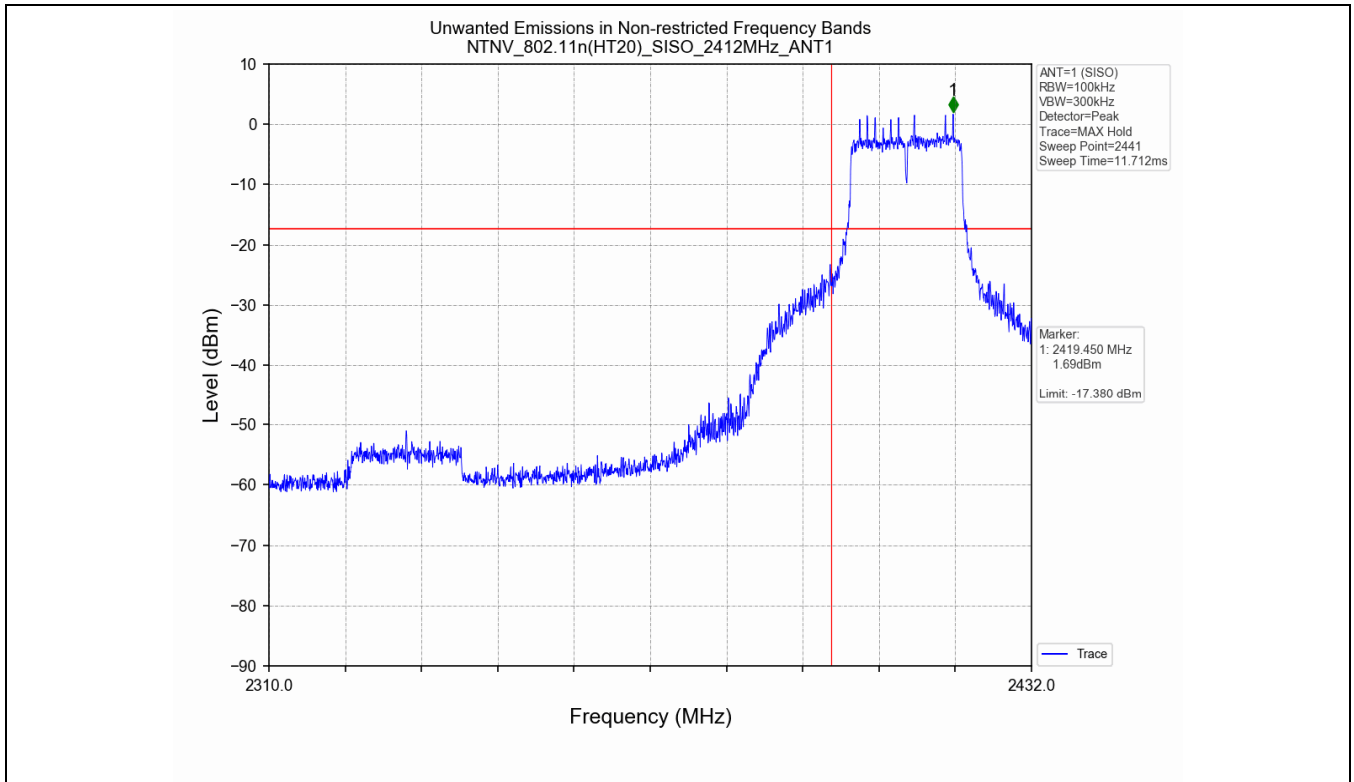
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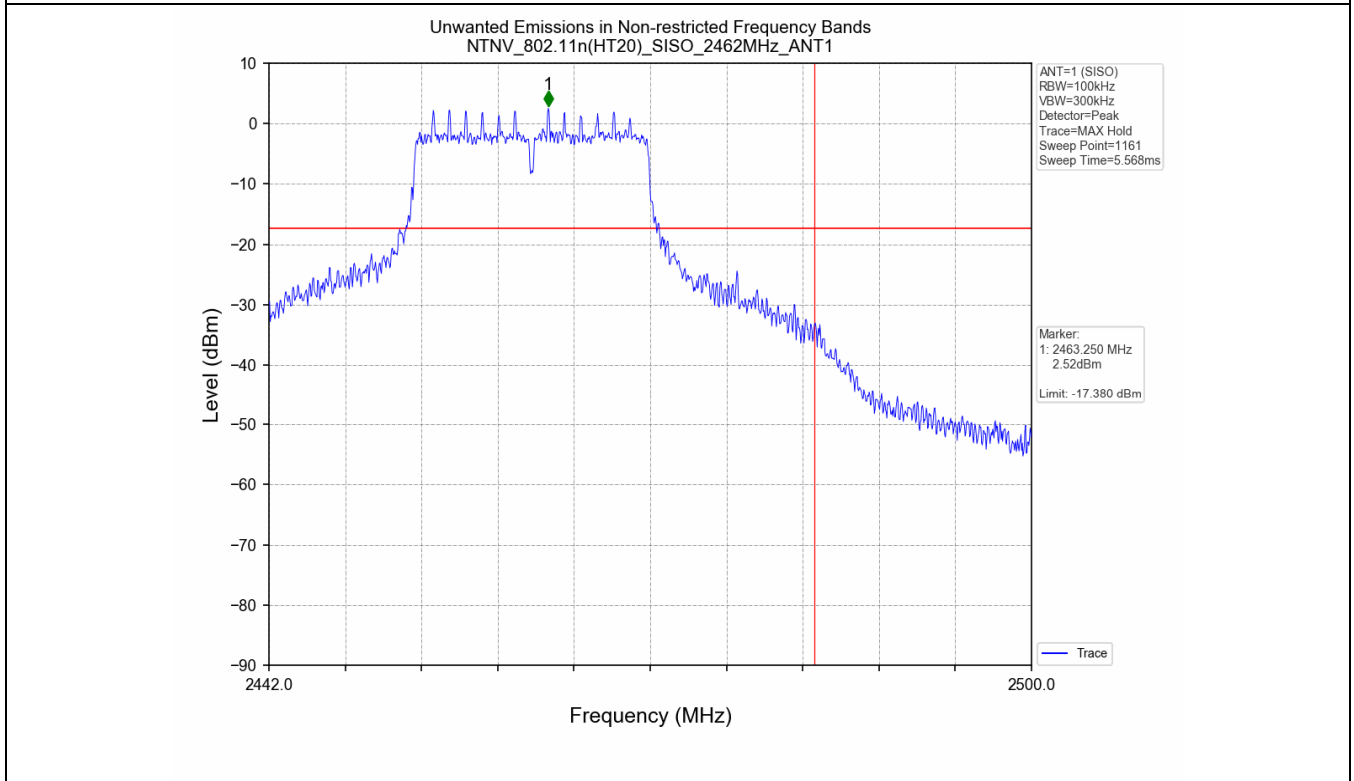
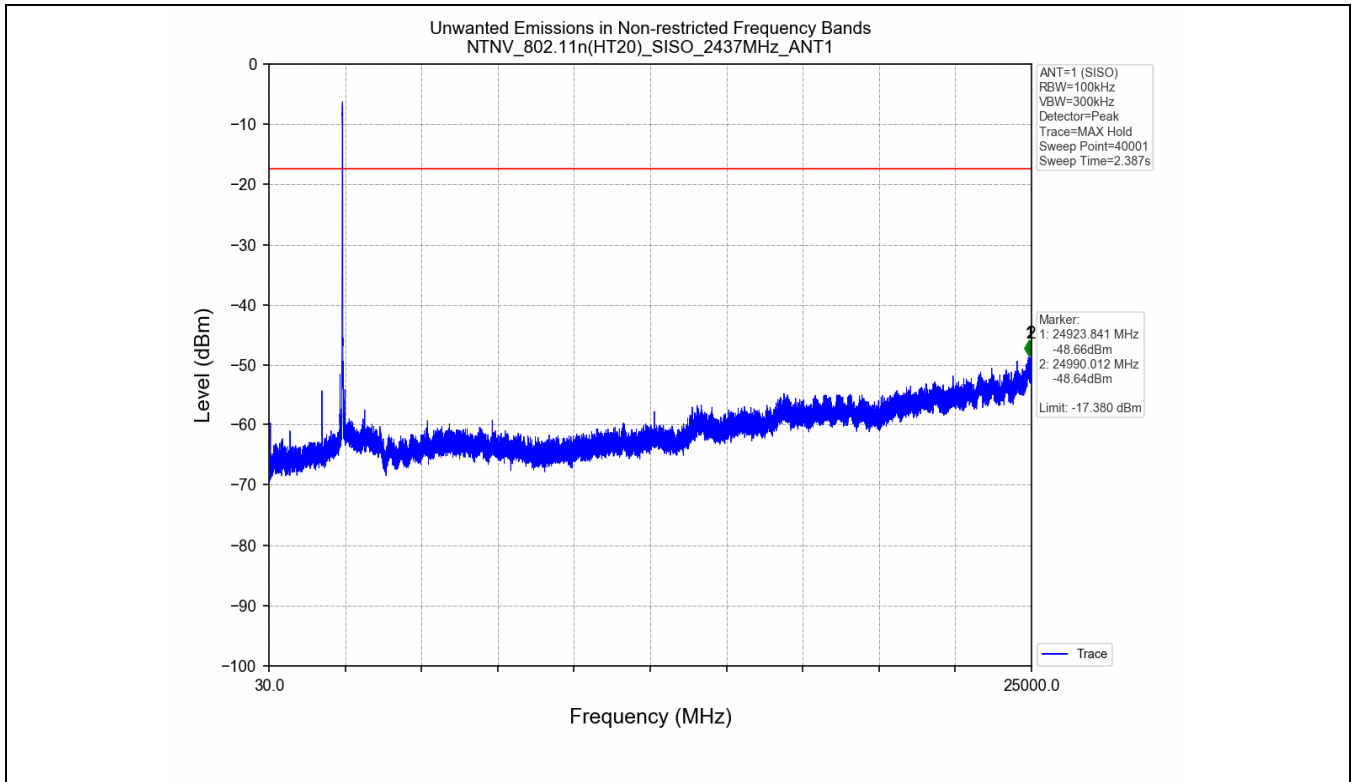
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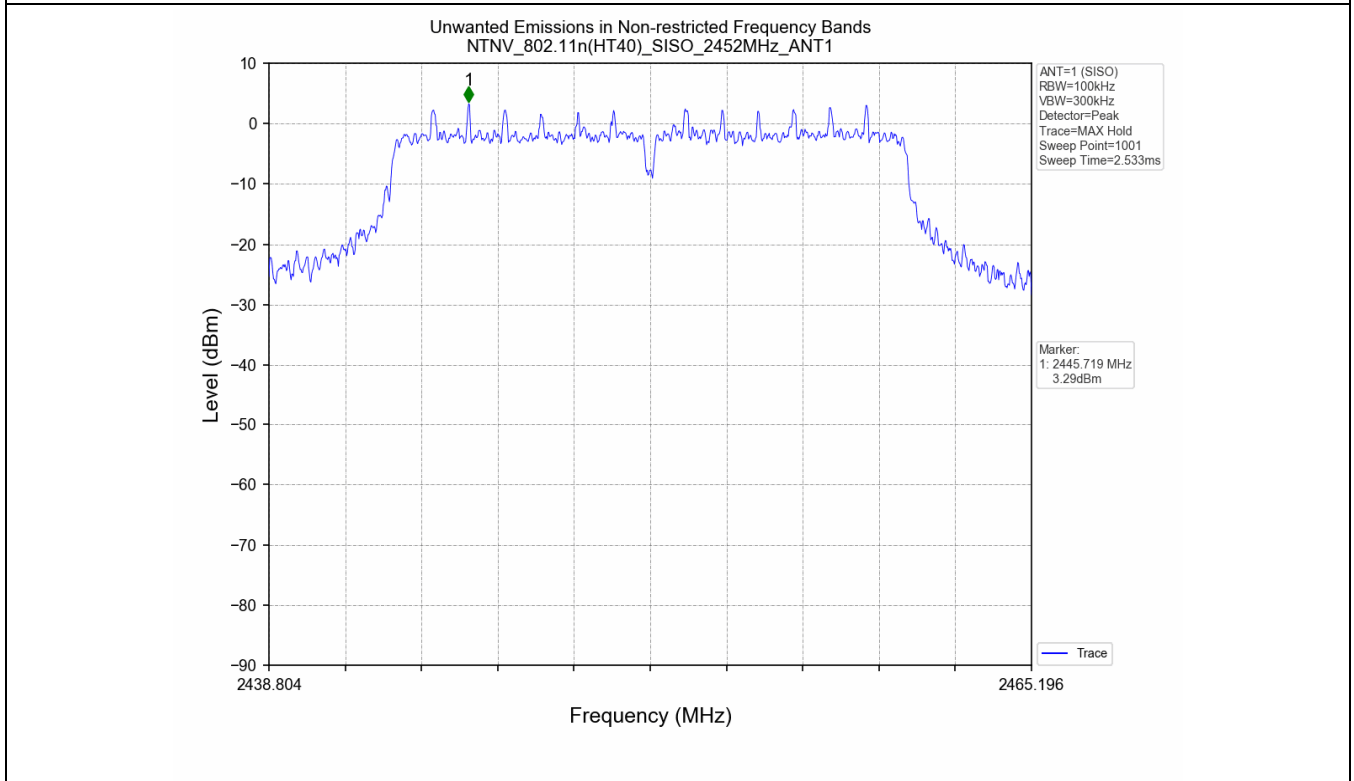
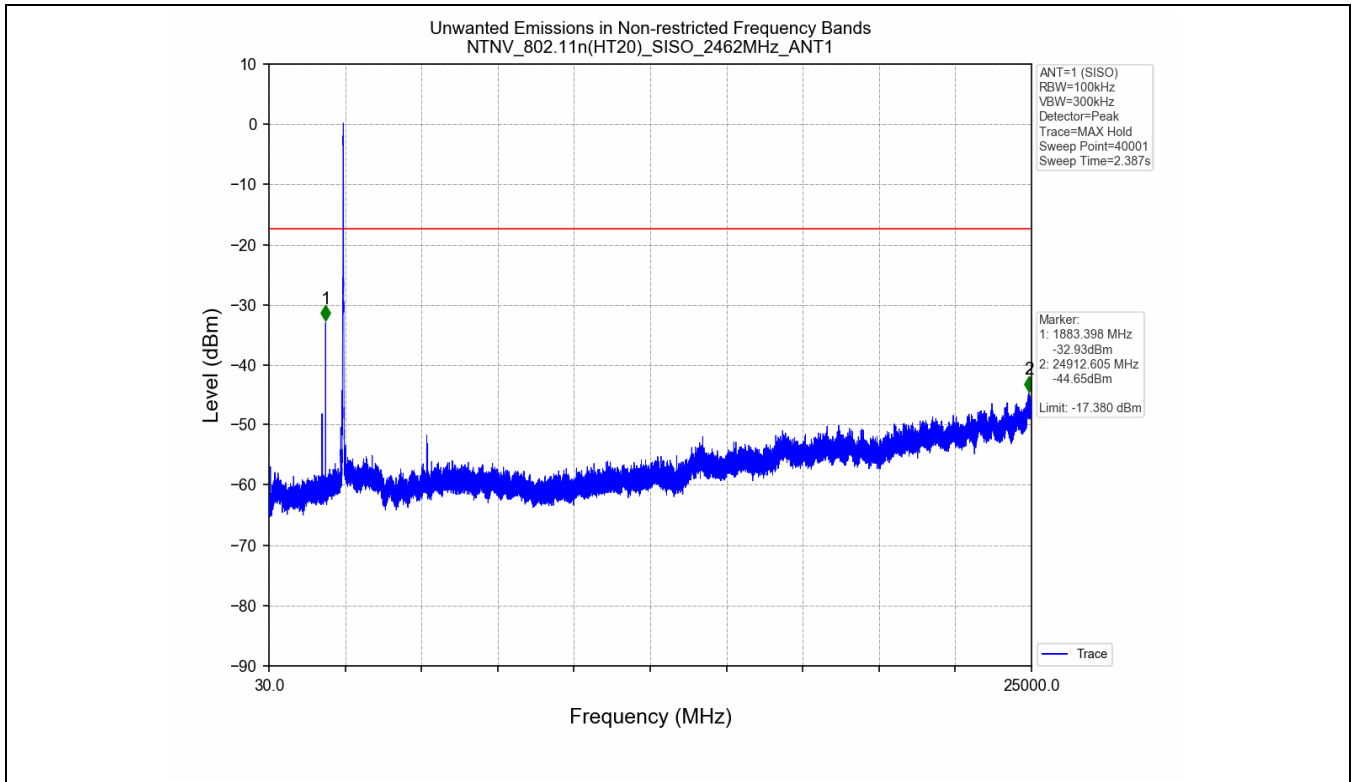
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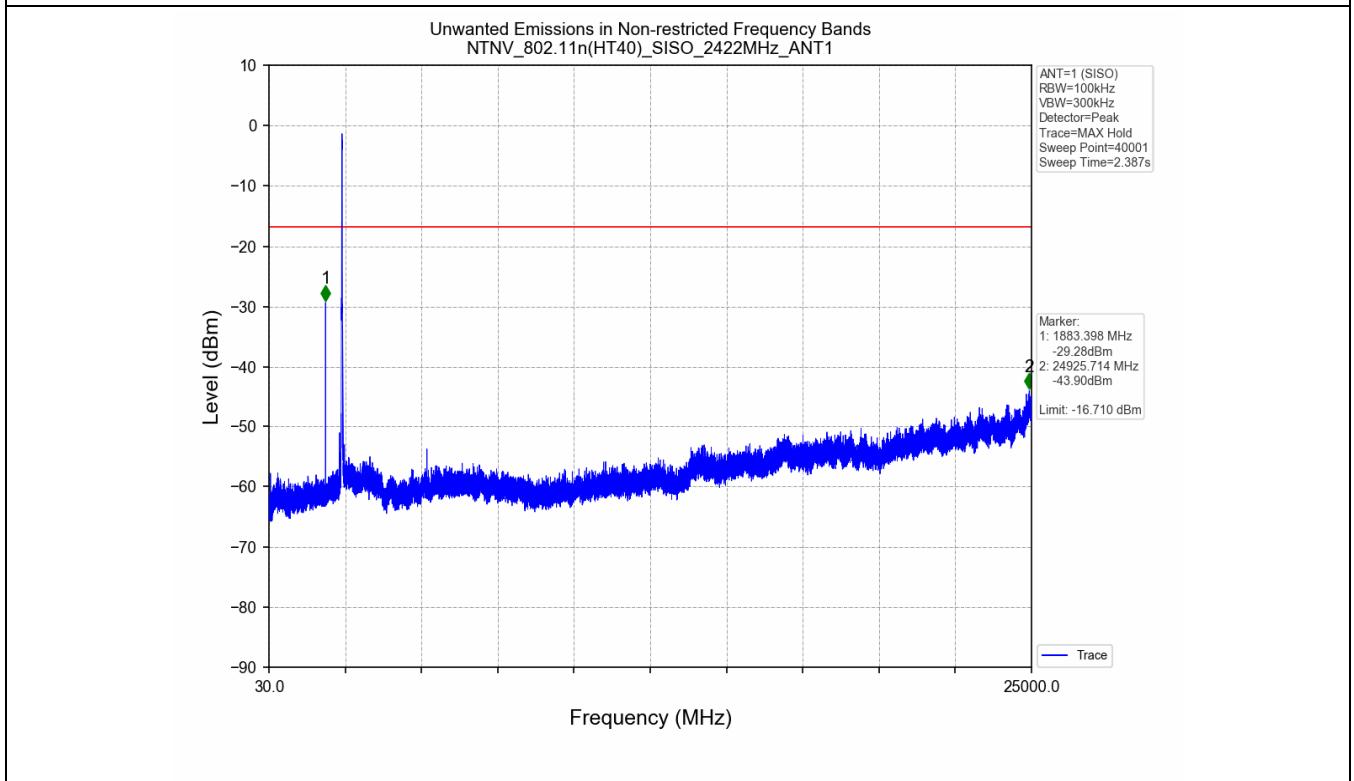
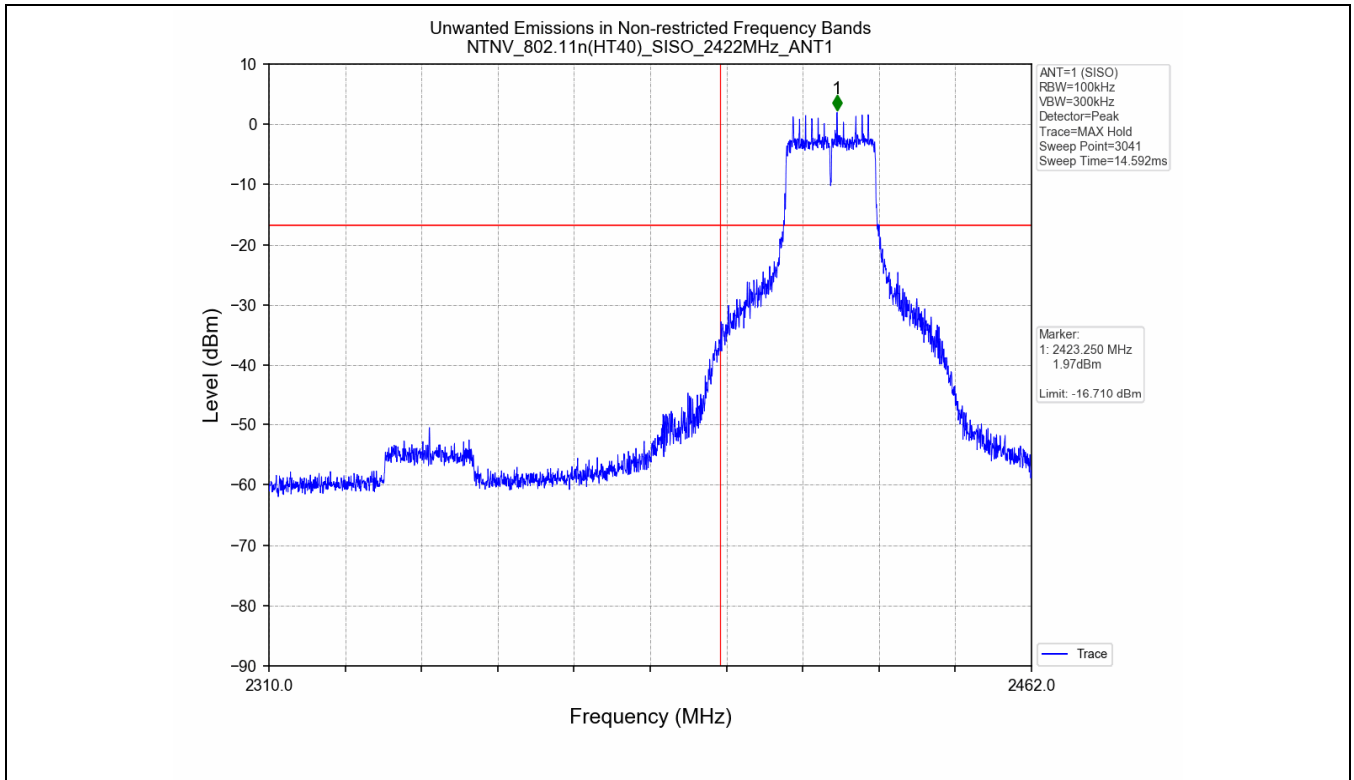
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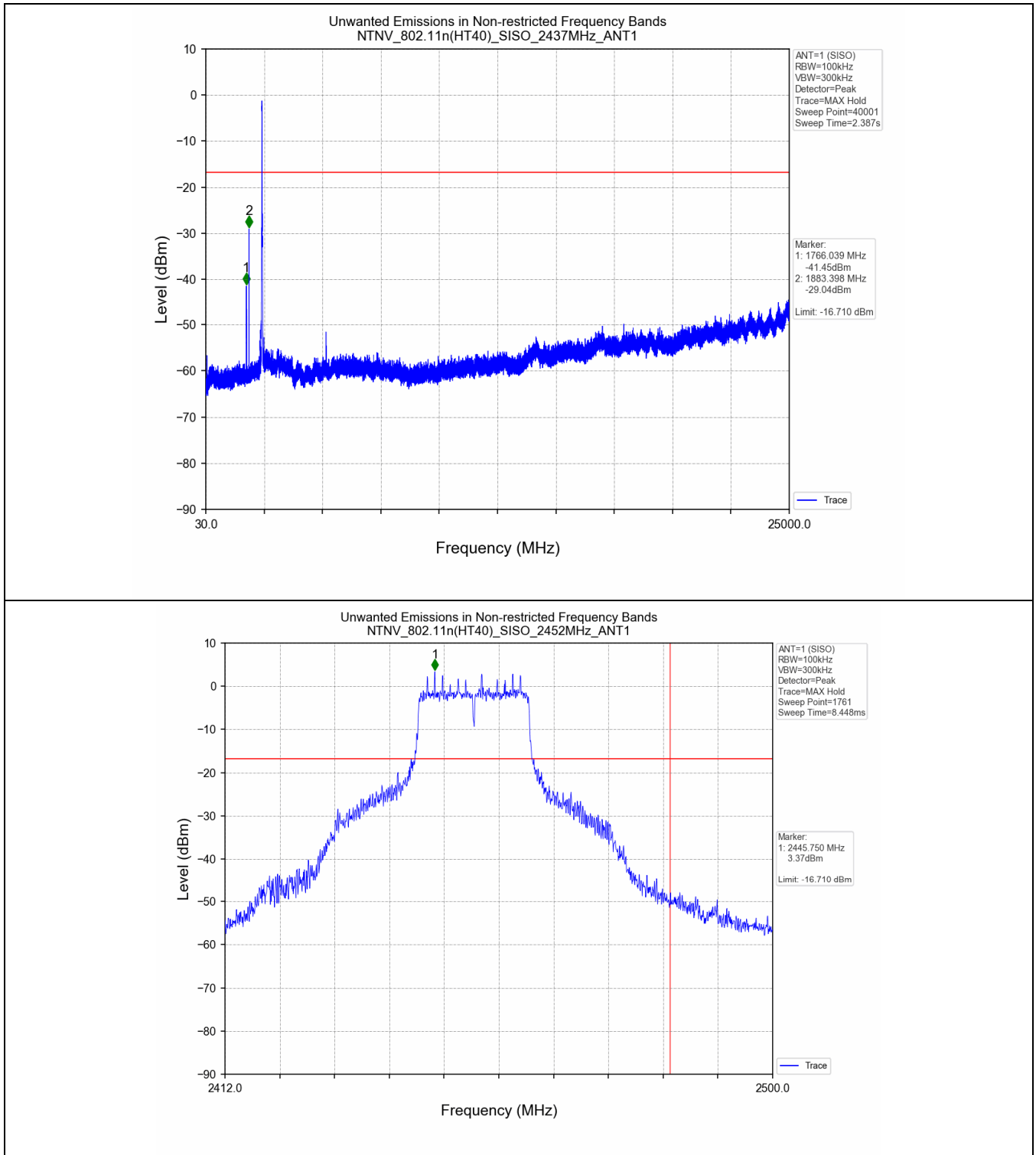
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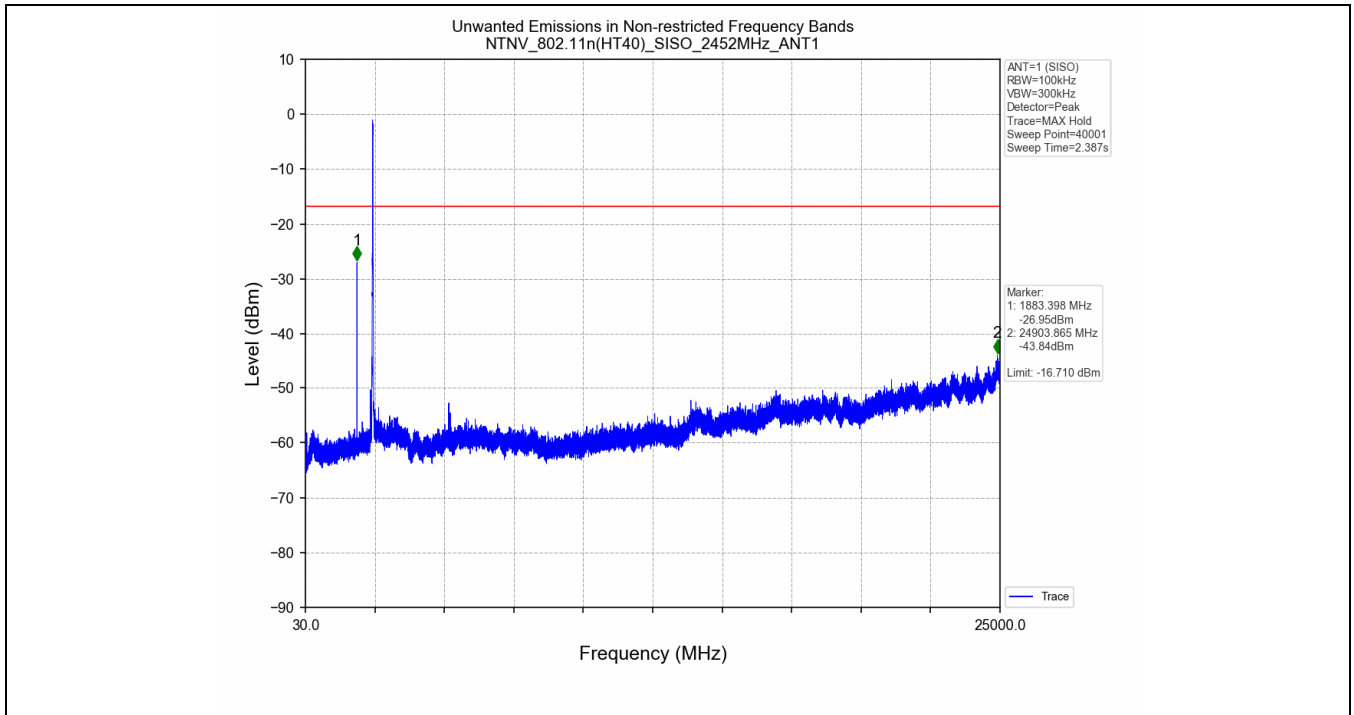
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