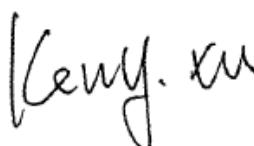


TEST REPORT

Application No.:	SZCR2506002560AT
Applicant:	Lockin Technology (Beijing) Co., Ltd.
Address of Applicant:	4F, BLDG.15, Yard.3, Jinghai 5th RD, Beijing Economic-Technological Development, Beijing, 101111 China
Manufacturer:	Lockin Technology (Beijing) Co., Ltd.
Address of Manufacturer:	4F, BLDG.15, Yard.3, Jinghai 5th RD, Beijing Economic-Technological Development.
Factory:	Chongqing Luxiangjia Technology Co., Ltd.
Address of Factory:	No.50 Industrial Avenue, Pulu Street, Tongliang District, Chongqing, P.R.China
Equipment Under Test (EUT):	
EUT Name:	Lockin Smart Lock V5 Vision
Model No.:	XFCL301
Trade Mark:	 LOCKIN
FCC ID:	2BPG9-XFCL301
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2025-06-17
Date of Test:	2025-06-20 to 2025-06-25
Date of Issue:	2025-07-07

Test Result:	Pass*
---------------------	--------------

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



Keny Xu
EMC Laboratory Manager



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

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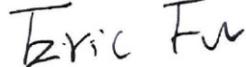
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250600256003

Page: 2 of 131

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-07-07		Original

Authorized for issue by:			
		Bill Chen/Project Engineer	
		Eric Fu/Reviewer	

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2 Test Summary

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

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

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3 Contents

	Page
1 Cover Page	1
2 Test Summary.....	3
3 Contents	4
4 General Information.....	6
4.1 Details of E.U.T	6
4.2 Description of Support Units	6
4.3 Measurement Uncertainty	6
4.4 Test Location	8
4.5 Test Facility.....	8
4.6 Deviation from Standards	8
4.7 Abnormalities from Standard Conditions	8
5 Equipment List	9
6 Radio Spectrum Technical Requirement.....	11
6.1 Antenna Requirement	11
6.1.1 Test Requirement:.....	11
6.1.2 Conclusion.....	11
7 Radio Spectrum Matter Test Results	12
7.1 Radiated Emissions which fall in the restricted bands	12
7.1.1 E.U.T. Operation.....	12
7.1.2 Test Mode Description	12
7.1.3 Test Setup Diagram	13
7.1.4 Measurement Procedure and Data.....	14
7.2 Radiated Spurious Emissions Below 1GHz.....	47
7.2.1 E.U.T. Operation.....	47
7.2.2 Test Mode Description	47
7.2.3 Test Setup Diagram	48
7.2.4 Measurement Procedure and Data.....	48
7.3 Radiated Spurious Emissions Above 1GHz	51
7.3.1 E.U.T. Operation.....	51
7.3.2 Test Mode Description	51
7.3.3 Test Setup Diagram	51
7.3.4 Measurement Procedure and Data.....	52
7.4 Conducted Peak Output Power	77
7.4.1 E.U.T. Operation.....	77
7.4.2 Test Mode Description	77
7.4.3 Test Setup Diagram	78
7.4.4 Measurement Procedure and Data.....	78
7.5 Minimum 6dB Bandwidth.....	79
7.5.1 E.U.T. Operation	79



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7.5.2	Test Mode Description	79
7.5.3	Test Setup Diagram	79
7.5.4	Measurement Procedure and Data.....	79
7.6	Power Spectrum Density	80
7.6.1	E.U.T. Operation	80
7.6.2	Test Mode Description	80
7.6.3	Test Setup Diagram	80
7.6.4	Measurement Procedure and Data.....	80
7.7	Conducted Band Edges Measurement	81
7.7.1	E.U.T. Operation	81
7.7.2	Test Mode Description	81
7.7.3	Test Setup Diagram	82
7.7.4	Measurement Procedure and Data.....	82
7.8	Conducted Spurious Emissions	83
7.8.1	E.U.T. Operation	83
7.8.2	Test Mode Description	83
7.8.3	Test Setup Diagram	84
7.8.4	Measurement Procedure and Data.....	84
8	Test Setup Photo	85
9	EUT Constructional Details (EUT Photos).....	85
10	Appendix.....	86



4 General Information

4.1 Details of E.U.T.

Power supply:	Battery 1: Rechargeable Li-ion Battery Pack Model:ZNS-09G Nominal Voltage:DC 7.4V Rated Capacity:5000mAh Nominal Energy:37Wh Battery 2: Rechargeable Li-ion Battery Pack Model:ZNS-11G Nominal Voltage:DC 7.4V Rated Capacity:2250mAh Nominal Energy:16.65Wh
RF cable(Provided by the customer):	0.5dB
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (DBPSK, DQPSK, CCK); 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	FPC Antenna
Antenna Gain:	2.71dBi

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

4.2 Description of Support Units

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

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18-40GHz)

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250600256003

Page: 7 of 131

Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI 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:

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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 (Member No. 1937)**

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. Shenzhen EMC laboratory 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: CN1336**

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **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

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5 Equipment List

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250600256003

Page: 10 of 131

Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20

RF Conducted Test

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.71dBi.

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

Measurement Distance: 3m

Limit:

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

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

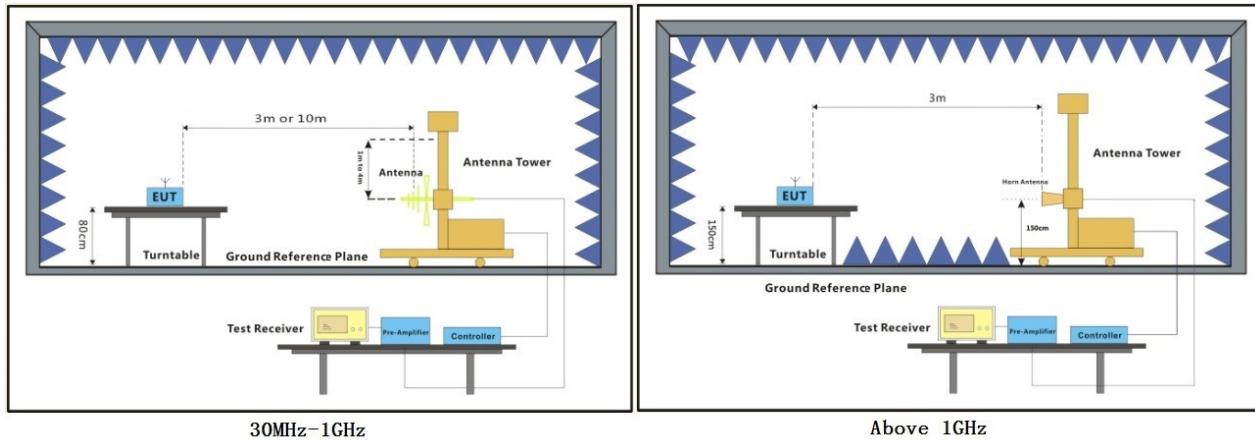
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7.1.3 Test Setup Diagram



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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 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 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.

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

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

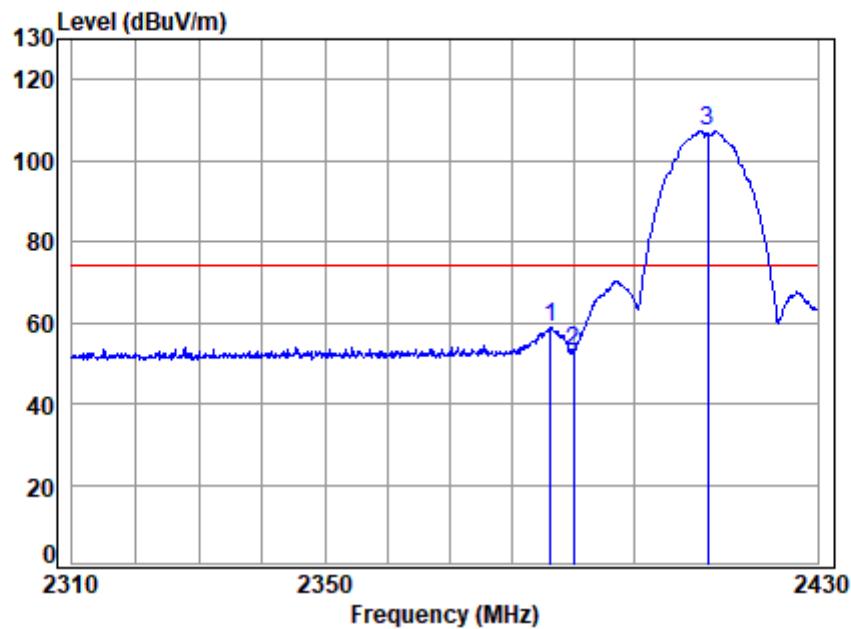
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02560AT\02561AT

Mode : 2412 Band edge

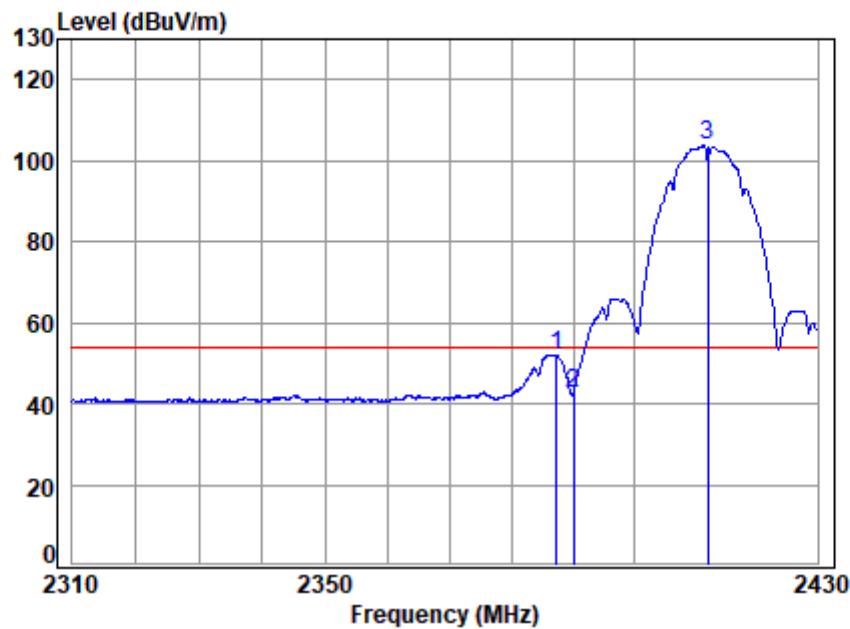
2.4G WiFi 11b									
Freq	Cable	Ant	Preamp	Read	Limit		Over	Limit	Remark
	Loss	Factor	Factor	Level	Level	Line			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
5.340	15.81	29.10	32.78	46.74	58.87	74.00	-15.13	peak	
0.000	15.81	29.10	32.78	40.53	52.66	74.00	-21.34	peak	
2.000	15.82	29.05	32.77	95.09	107.19	74.00	33.19	peak	

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2412 Band edge
: 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2387.307	15.81	29.10	32.78	39.91	52.04	54.00	-1.96 Average
2 2390.000	15.81	29.10	32.78	30.54	42.67	54.00	-11.33 Average
3 q 2412.000	15.82	29.05	32.77	91.84	103.94	54.00	49.94 Average

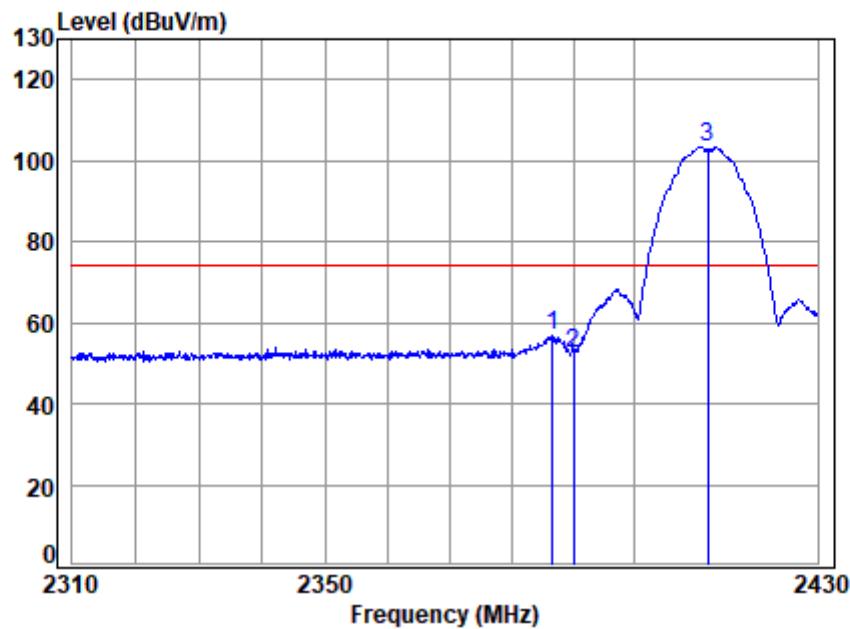
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2412 Band edge
: 2.4G WIFI 11B

	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2386.703	15.81	29.10	32.78	44.50	56.63	74.00	-17.37 Peak
2	2390.000	15.81	29.10	32.78	40.40	52.53	74.00	-21.47 Peak
3 p	2412.000	15.82	29.05	32.77	91.24	103.34	74.00	29.34 Peak

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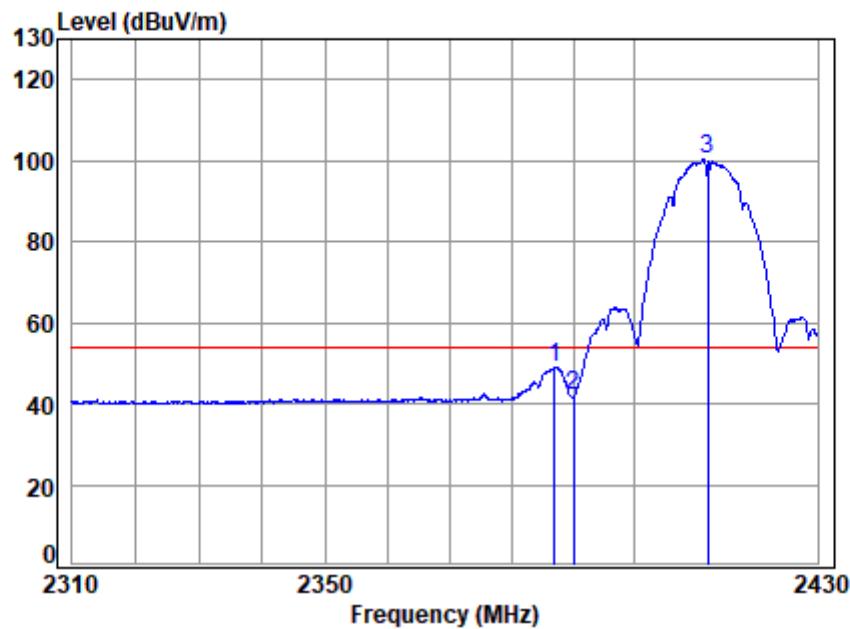
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Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2412 Band edge
: 2.4G WIFI 11B

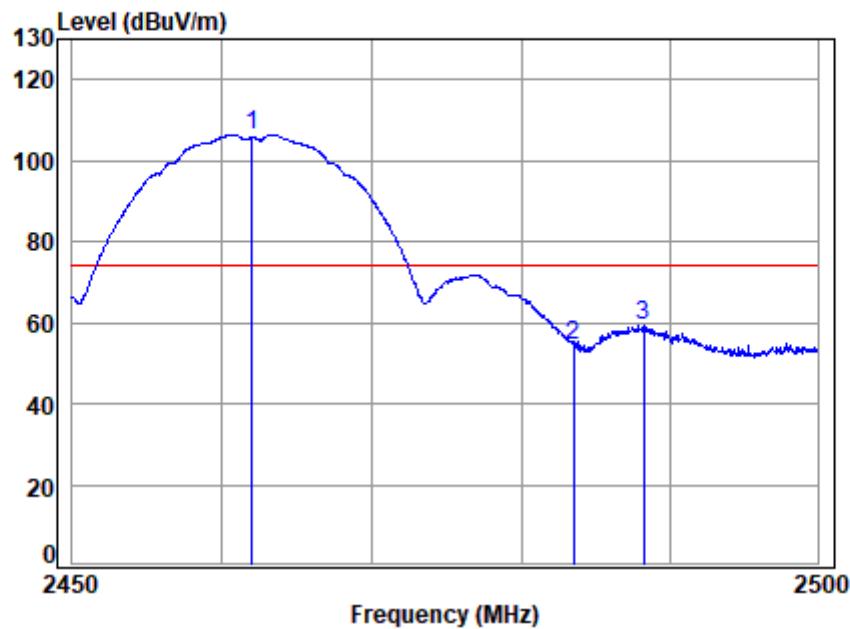
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 2386.944	15.81	29.10	32.78	36.81	48.94	54.00	-5.06 Average
2 2390.000	15.81	29.10	32.78	29.72	41.85	54.00	-12.15 Average
3 q 2412.000	15.82	29.05	32.77	88.00	100.10	54.00	46.10 Average



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

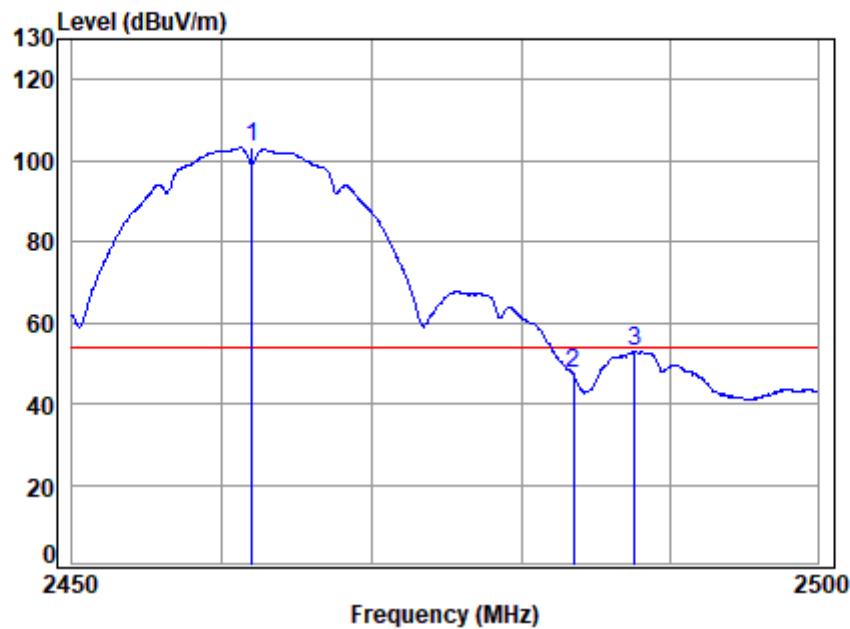
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
1 p 2462.000	15.85	28.90	32.74	94.34	106.35	74.00	32.35	peak	
2 2483.500	15.86	28.90	32.73	42.39	54.42	74.00	-19.58	peak	
3 2488.260	15.86	28.90	32.73	47.34	59.37	74.00	-14.63	peak	



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

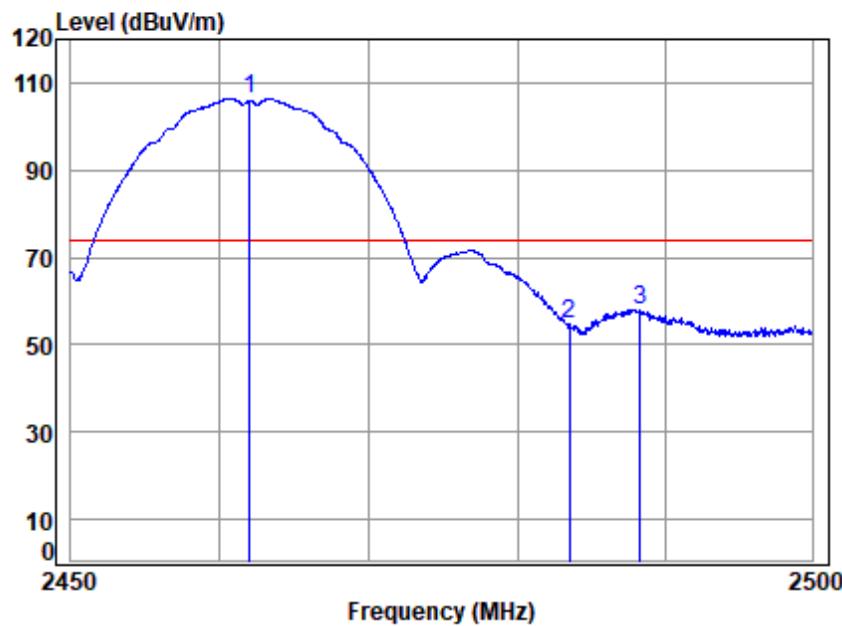
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Line	Over Remark	
					dB	dB/m	dB	dBuV	dBuV/m
MHz	dB	dB/m	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 2462.000	15.85	28.90	32.74	91.20	103.21	54.00	49.21	Average	
2 2483.500	15.86	28.90	32.73	35.34	47.37	54.00	-6.63	Average	
3 2487.606	15.86	28.90	32.73	40.94	52.97	54.00	-1.03	Average	



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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 2462.000	15.85	28.90	32.74	94.33	106.34	74.00	32.34 Peak
2 2483.500	15.86	28.90	32.73	42.64	54.67	74.00	-19.33 Peak
3 2488.310	15.86	28.90	32.73	46.09	58.12	74.00	-15.88 Peak

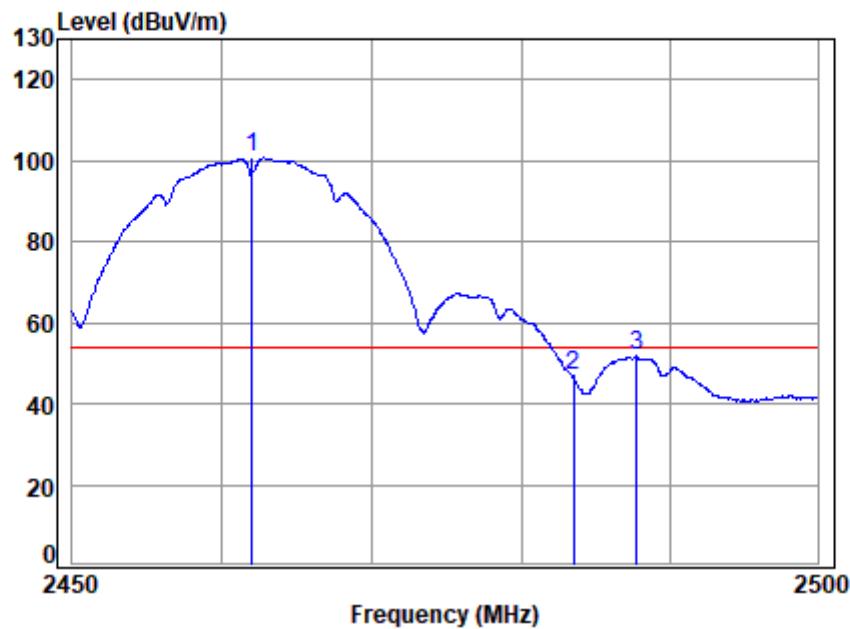
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Line	Over Remark
					dB	dBuV	dBuV/m	dBuV/m
1 q 2462.000	15.85	28.90	32.74	88.67	100.68	54.00	46.68	Average
2 2483.500	15.86	28.90	32.73	34.69	46.72	54.00	-7.28	Average
3 2487.757	15.86	28.90	32.73	39.63	51.66	54.00	-2.34	Average

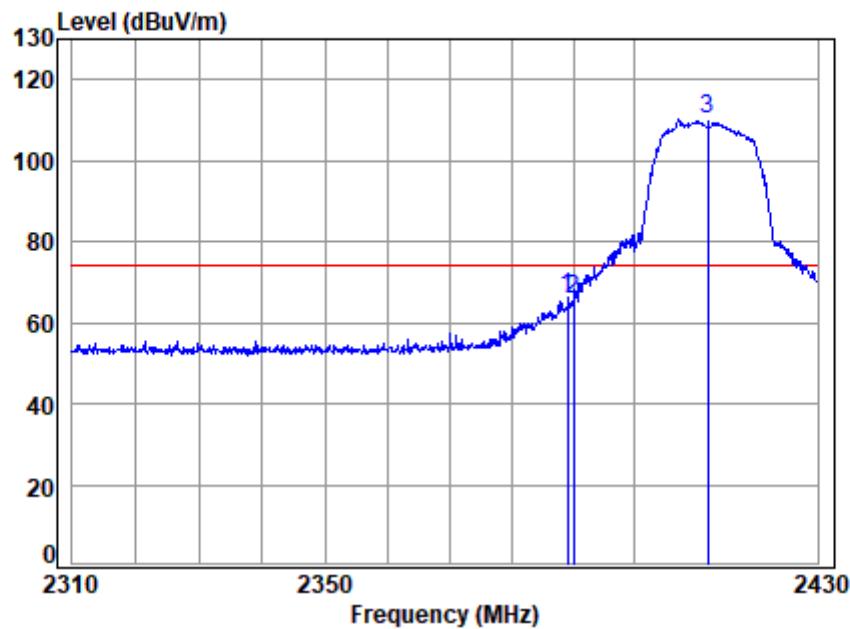
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2412 Band edge
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark		
				Level	Level	dBuV	dBuV/m	dBuV/m	dB
1	2389.121	15.81	29.10	32.78	53.93	66.06	74.00	-7.94	peak
2	2390.000	15.81	29.10	32.78	53.40	65.53	74.00	-8.47	peak
3 p	2412.000	15.82	29.05	32.77	97.97	110.07	74.00	36.07	peak

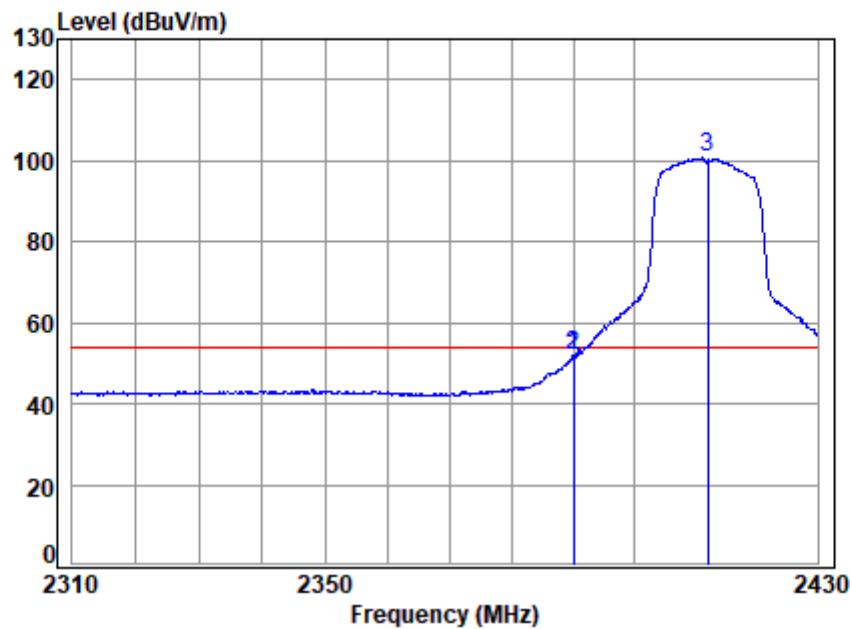
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2412 Band edge
: 2.4G WIFI 11G

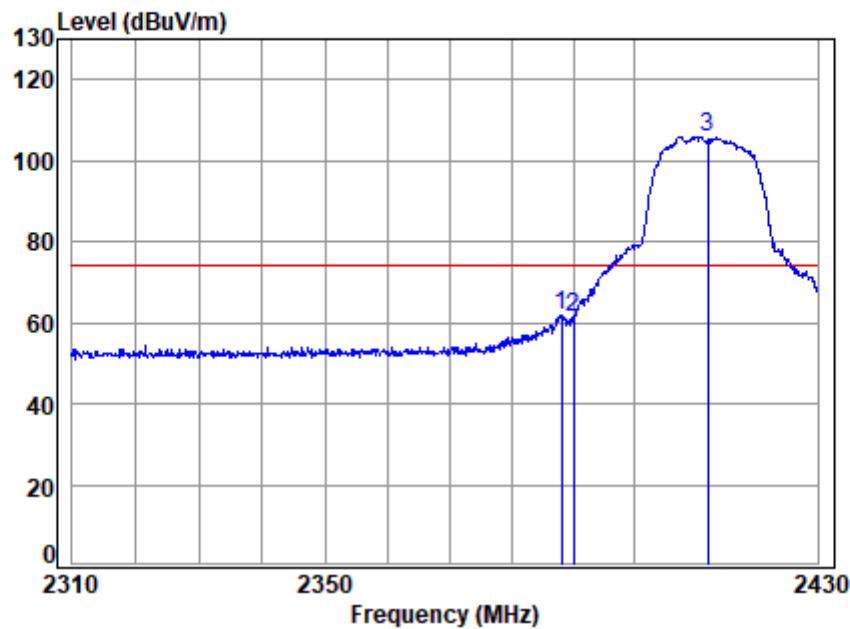
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 2389.968	15.81	29.10	32.78	39.96	52.09	54.00	-1.91 Average
2 2390.000	15.81	29.10	32.78	39.96	52.09	54.00	-1.91 Average
3 q 2412.000	15.82	29.05	32.77	88.54	100.64	54.00	46.64 Average



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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2412 Band edge
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 2388.032	15.81	29.10	32.78	49.87	62.00	74.00	-12.00 Peak
2 2390.000	15.81	29.10	32.78	49.38	61.51	74.00	-12.49 Peak
3 p 2412.000	15.82	29.05	32.77	93.92	106.02	74.00	32.02 Peak

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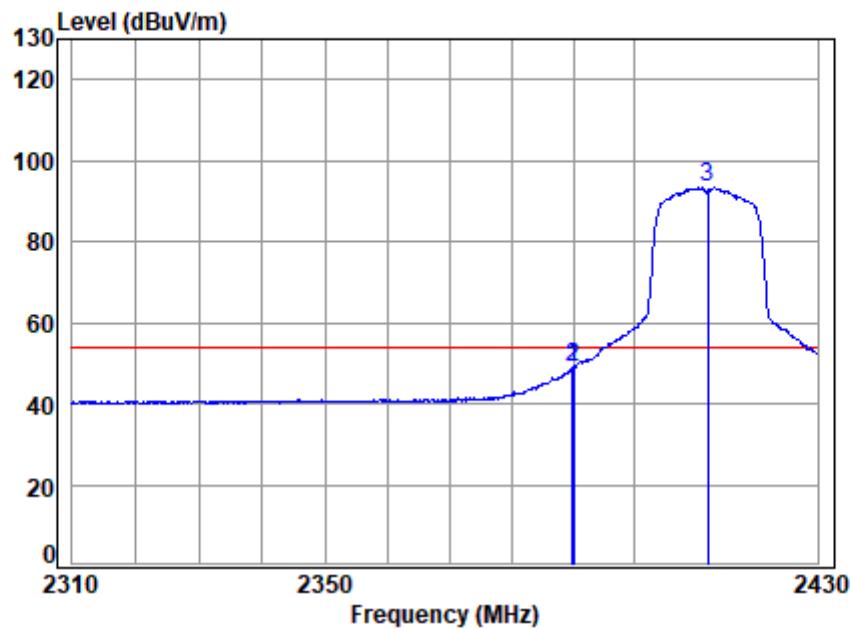
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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2412 Band edge
: 2.4G WIFI 11G

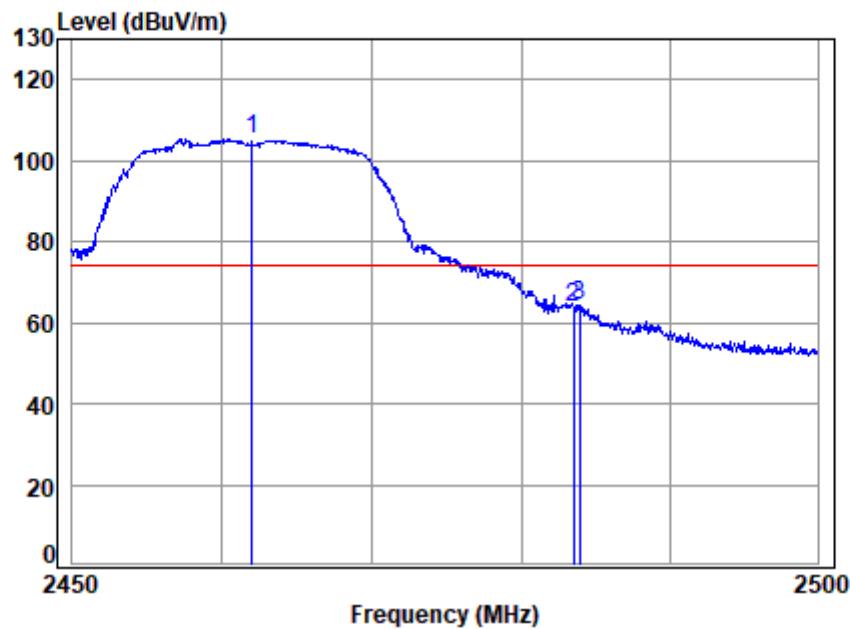
		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Remark
Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.847	15.81	29.10	32.78	36.66	48.79	54.00	-5.21 Average
2	2390.000	15.81	29.10	32.78	36.59	48.72	54.00	-5.28 Average
3	q 2412.000	15.82	29.05	32.77	81.23	93.33	54.00	39.33 Average



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2462 Band edge
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
1 p 2462.000	15.85	28.90	32.74	93.31	105.32	74.00	31.32	peak	
2 2483.500	15.86	28.90	32.73	51.94	63.97	74.00	-10.03	peak	
3 2483.940	15.86	28.90	32.73	52.33	64.36	74.00	-9.64	peak	

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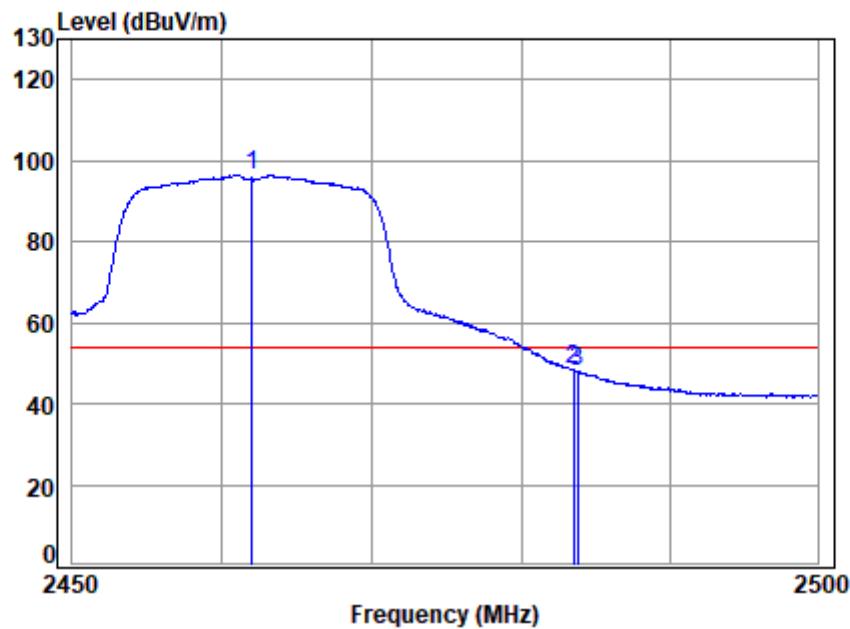
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2462 Band edge
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Line	Over Limit	Remark			
					dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB
1 q 2462.000	15.85	28.90	32.74	84.37	96.38	54.00	42.38	Average				
2 2483.500	15.86	28.90	32.73	36.27	48.30	54.00	-5.70	Average				
3 2483.790	15.86	28.90	32.73	35.91	47.94	54.00	-6.06	Average				

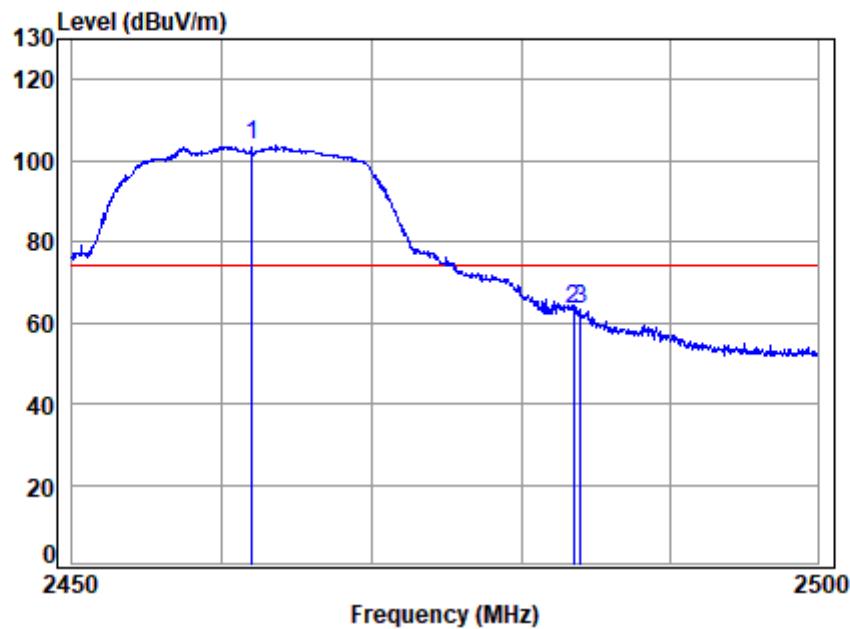


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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2462 Band edge
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Line	Over Remark
					dB	dB/m	dB	dBuV
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1 p 2462.000	15.85	28.90	32.74	91.56	103.57	74.00	29.57	Peak
2 2483.500	15.86	28.90	32.73	51.41	63.44	74.00	-10.56	Peak
3 2483.990	15.86	28.90	32.73	51.31	63.34	74.00	-10.66	Peak

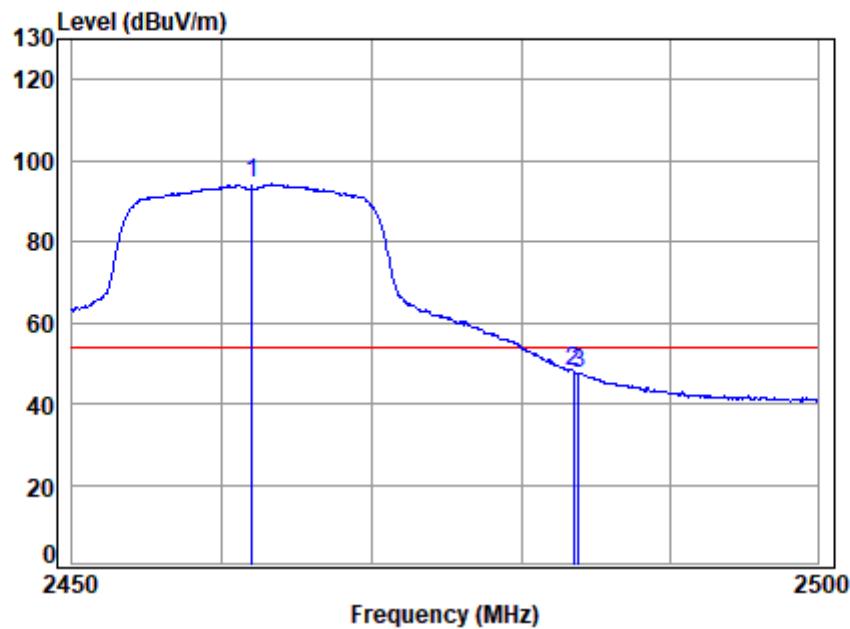
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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2462 Band edge
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Line	Over Limit	Remark
					dB	dBuV	dBuV/m	dBuV/m	
1 q 2462.000	15.85	28.90	32.74	82.17	94.18	54.00	40.18	40.18	Average
2 2483.500	15.86	28.90	32.73	36.12	48.15	54.00	-5.85	-5.85	Average
3 2483.890	15.86	28.90	32.73	35.67	47.70	54.00	-6.30	-6.30	Average

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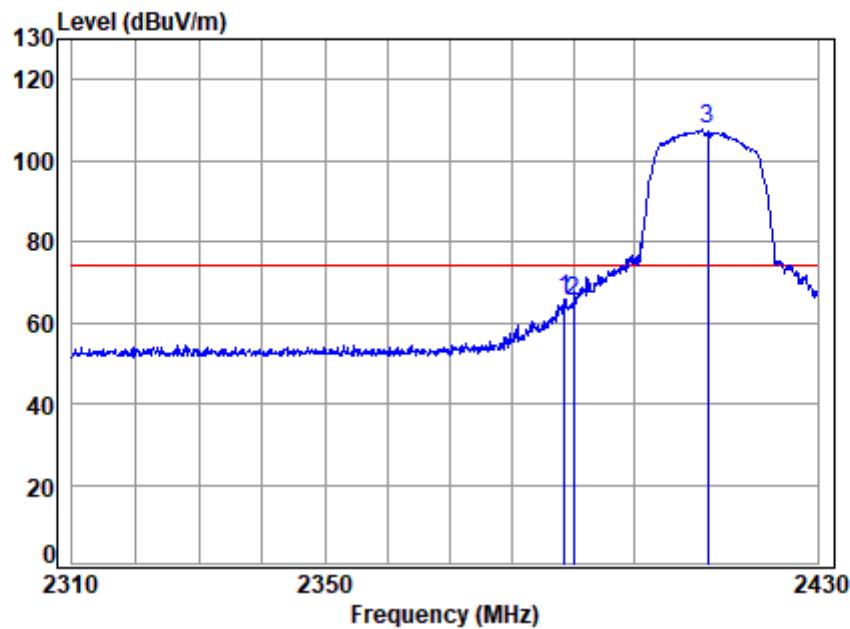
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2412 Band edge
: 2.4G WIFI 11N20

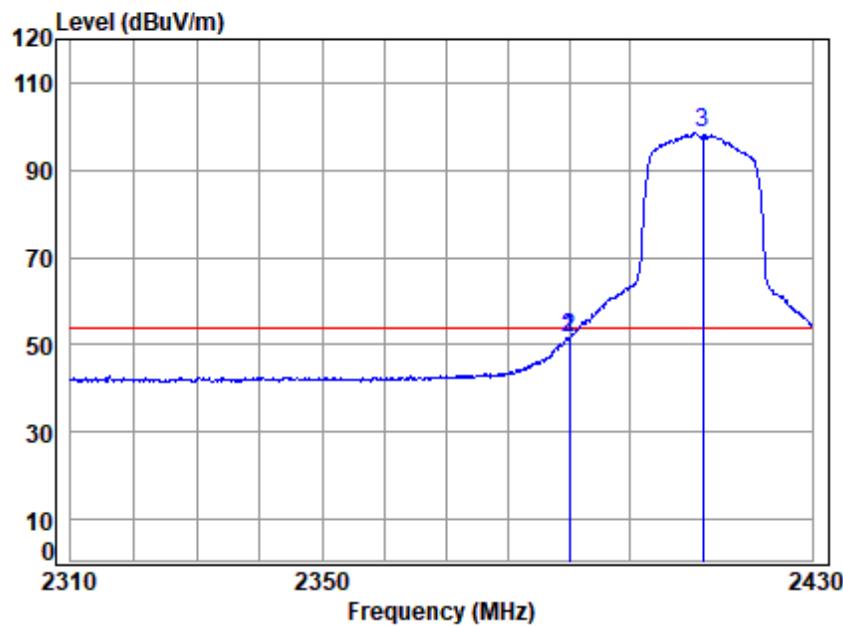
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark		
				Level	Level	dBuV	dBuV/m	dBuV/m	dB
1	2388.637	15.81	29.10	32.78	53.83	65.96	74.00	-8.04	peak
2	2390.000	15.81	29.10	32.78	52.95	65.08	74.00	-8.92	peak
3 p	2412.000	15.82	29.05	32.77	95.45	107.55	74.00	33.55	peak



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2412 Band edge
: 2.4G WIFI 11N20

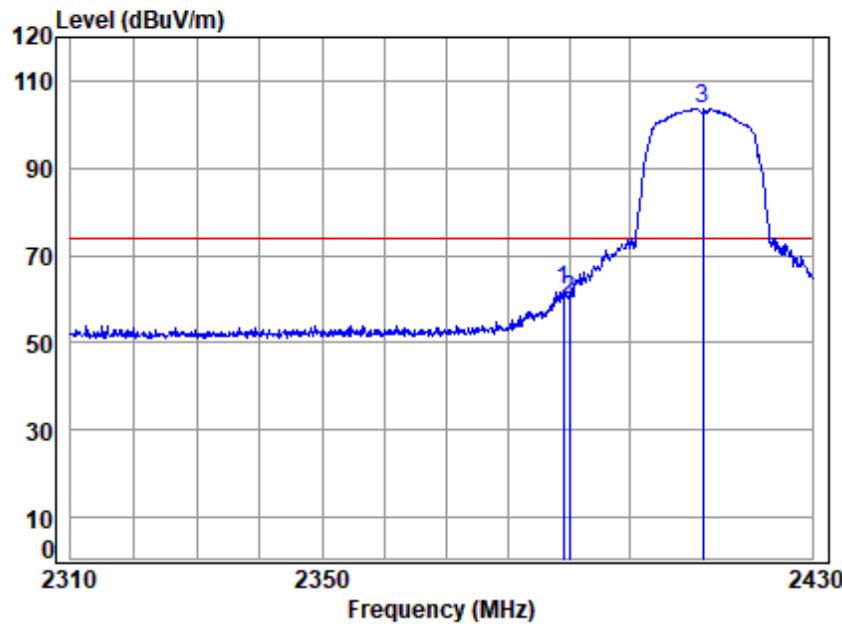
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2389.968	15.81	29.10	32.78	39.31	51.44	54.00	-2.56 Average
2 2390.000	15.81	29.10	32.78	39.31	51.44	54.00	-2.56 Average
3 q 2412.000	15.82	29.05	32.77	86.46	98.56	54.00	44.56 Average

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



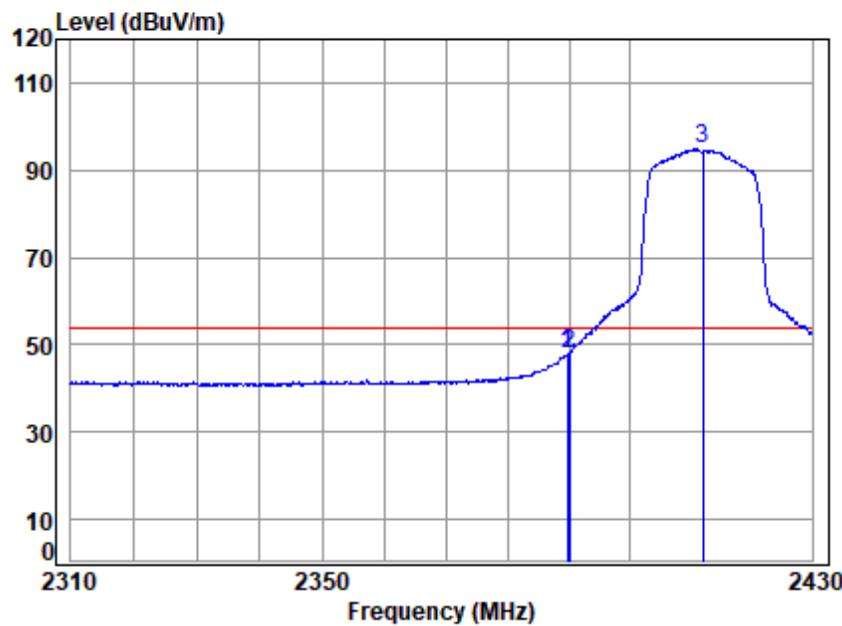
Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2412 Band edge
: 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2389.000	15.81	29.10	32.78	49.87	62.00	74.00	-12.00 Peak
2 2390.000	15.81	29.10	32.78	47.69	59.82	74.00	-14.18 Peak
3 p 2412.000	15.82	29.05	32.77	91.66	103.76	74.00	29.76 Peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2412 Band edge
: 2.4G WIFI 11N20

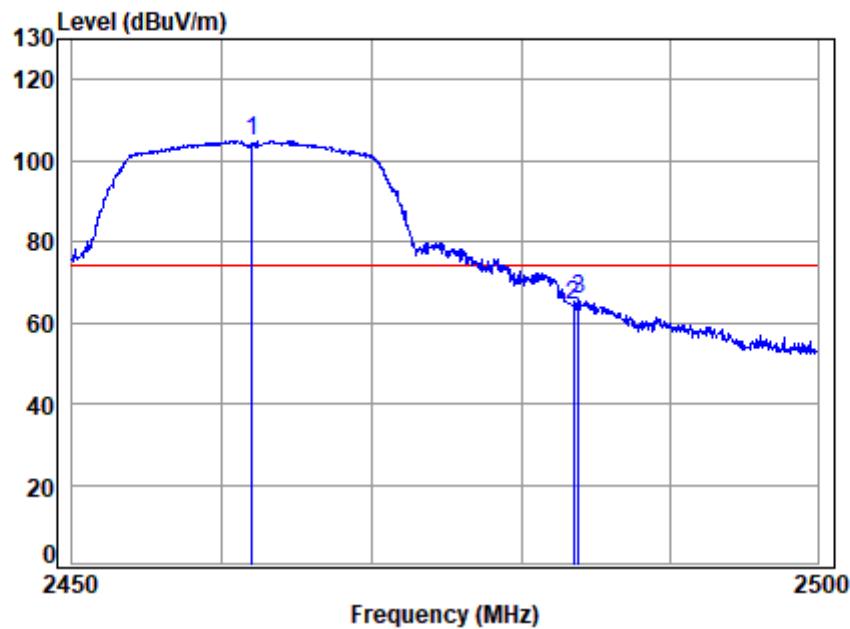
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2389.726	15.81	29.10	32.78	35.62	47.75	54.00	-6.25 Average
2 2390.000	15.81	29.10	32.78	35.57	47.70	54.00	-6.30 Average
3 q 2412.000	15.82	29.05	32.77	82.73	94.83	54.00	40.83 Average

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level	Level	dBuV	dBuV/m	dBuV/m
1 p 2462.000	15.85	28.90	32.74	92.86	104.87	74.00	30.87	peak
2 2483.500	15.86	28.90	32.73	52.02	64.05	74.00	-9.95	peak
3 2483.890	15.86	28.90	32.73	53.52	65.55	74.00	-8.45	peak

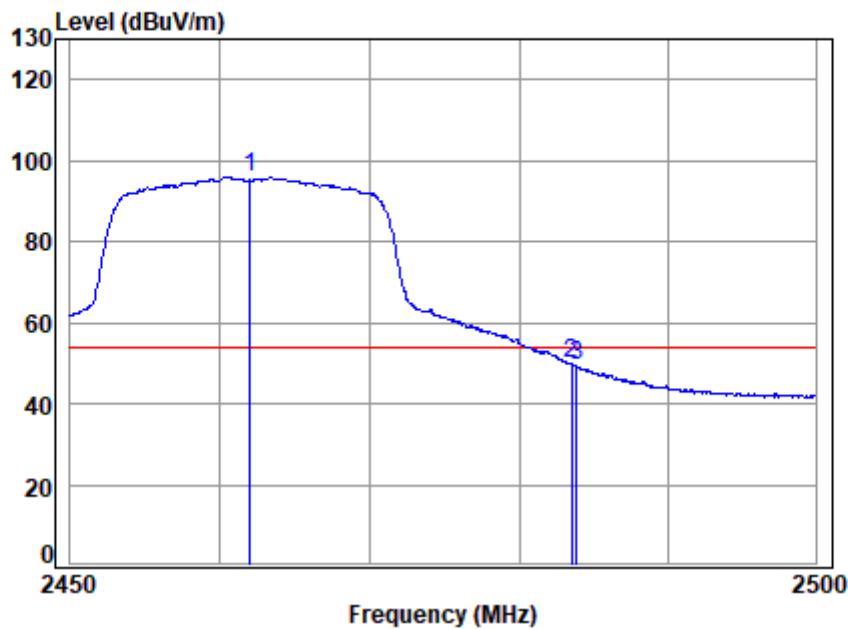
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

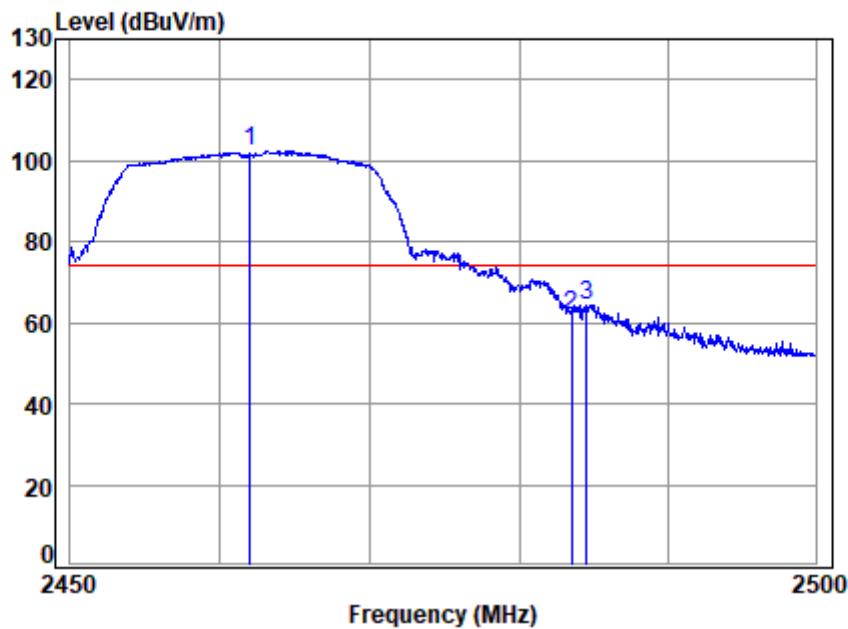
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 2462.000	15.85	28.90	32.74	84.11	96.12	54.00	42.12 Average
2 2483.500	15.86	28.90	32.73	37.80	49.83	54.00	-4.17 Average
3 2483.890	15.86	28.90	32.73	37.18	49.21	54.00	-4.79 Average



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level	Level	dBuV	dBuV/m	dBuV/m
1 p 2462.000	15.85	28.90	32.74	90.48	102.49	74.00	28.49	Peak
2 2483.500	15.86	28.90	32.73	49.94	61.97	74.00	-12.03	Peak
3 2484.542	15.86	28.90	32.73	52.44	64.47	74.00	-9.53	Peak

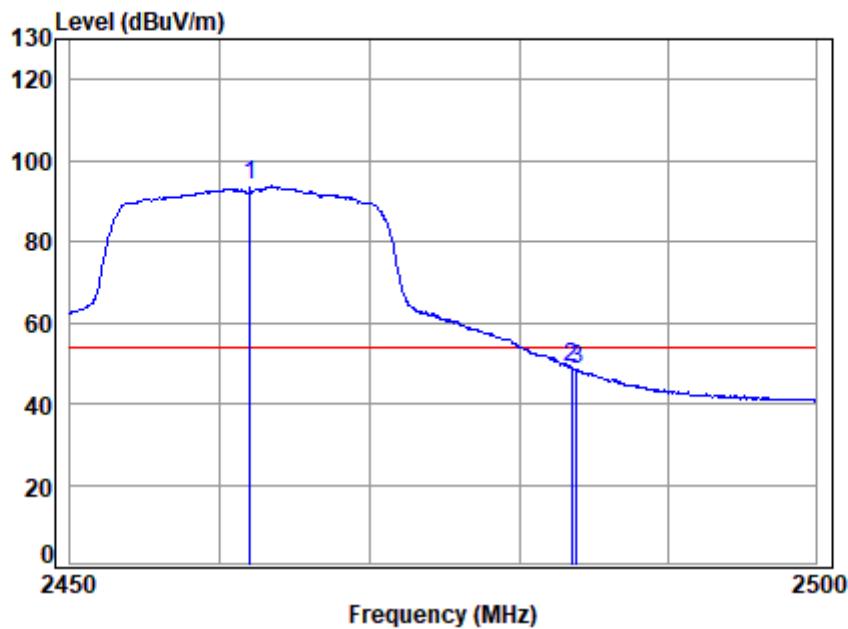
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

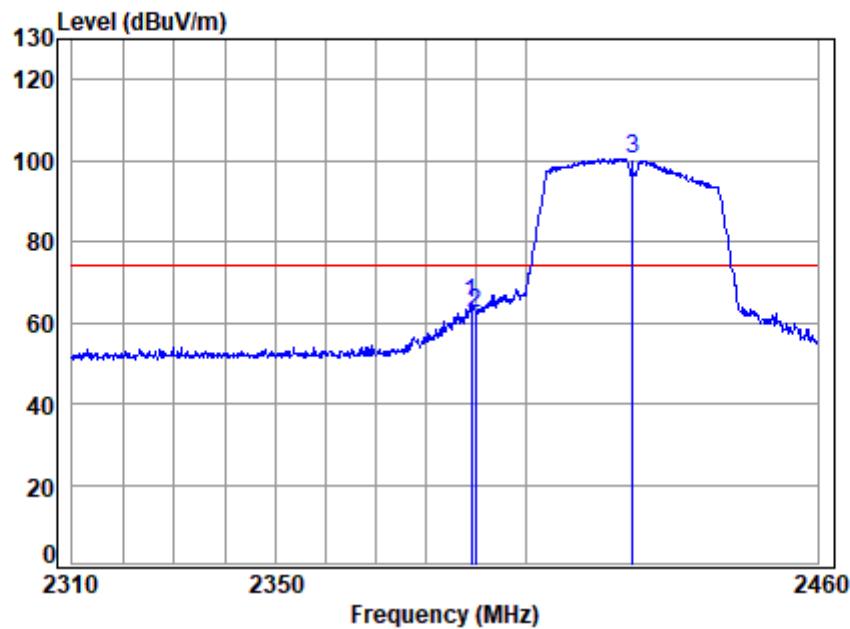
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Line	Over Remark
					dB	dB/m	dB	dBuV
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1 q 2462.000	15.85	28.90	32.74	81.85	93.86	54.00	39.86	Average
2 2483.500	15.86	28.90	32.73	36.72	48.75	54.00	-5.25	Average
3 2483.890	15.86	28.90	32.73	36.64	48.67	54.00	-5.33	Average



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2422 Band edge
: 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 2389.226	15.81	29.10	32.78	52.55	64.68	74.00	-9.32 peak
2 2390.000	15.81	29.10	32.78	50.32	62.45	74.00	-11.55 peak
3 p 2422.000	15.83	29.01	32.76	88.43	100.51	74.00	26.51 peak

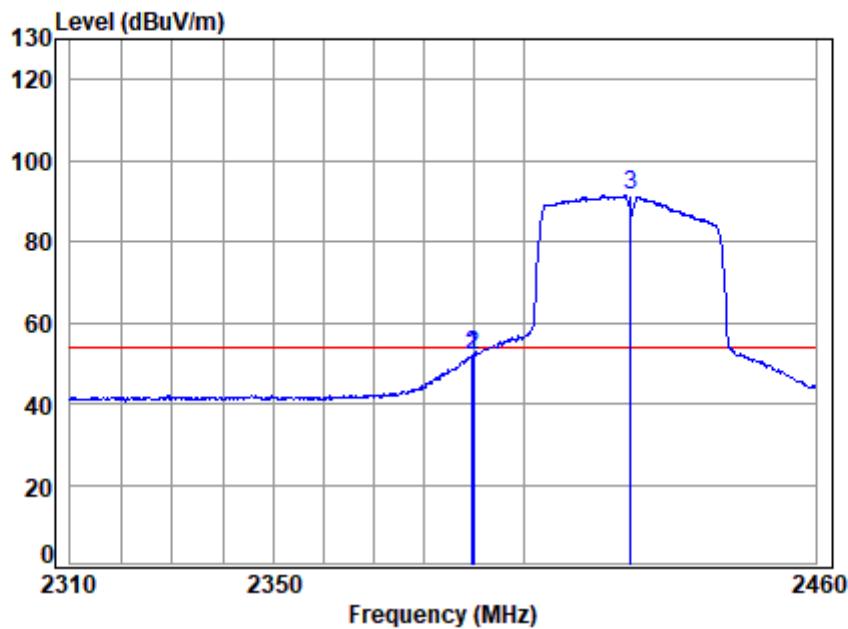
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02560AT\02561AT

Mode : 2422 Band edge

: 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 2389.677	15.81	29.10	32.78	39.93	52.06	54.00	-1.94 Average
2 2390.000	15.81	29.10	32.78	39.83	51.96	54.00	-2.04 Average
3 q 2422.000	15.83	29.01	32.76	79.29	91.37	54.00	37.37 Average

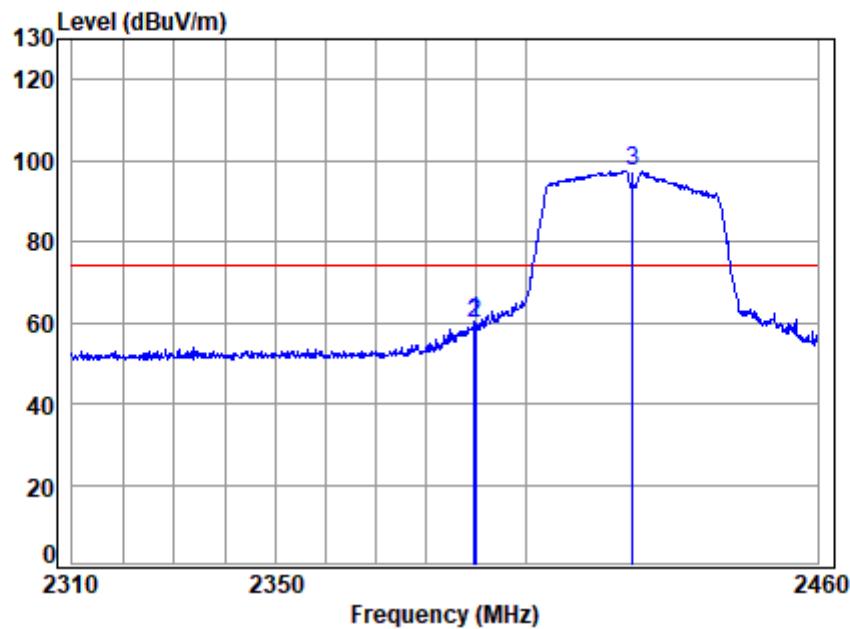
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2422 Band edge
: 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1	2389.677	15.81	29.10	32.78	48.08	60.21	74.00 -13.79 Peak
2	2390.000	15.81	29.10	32.78	47.81	59.94	74.00 -14.06 Peak
3 p	2422.000	15.83	29.01	32.76	85.37	97.45	74.00 23.45 Peak

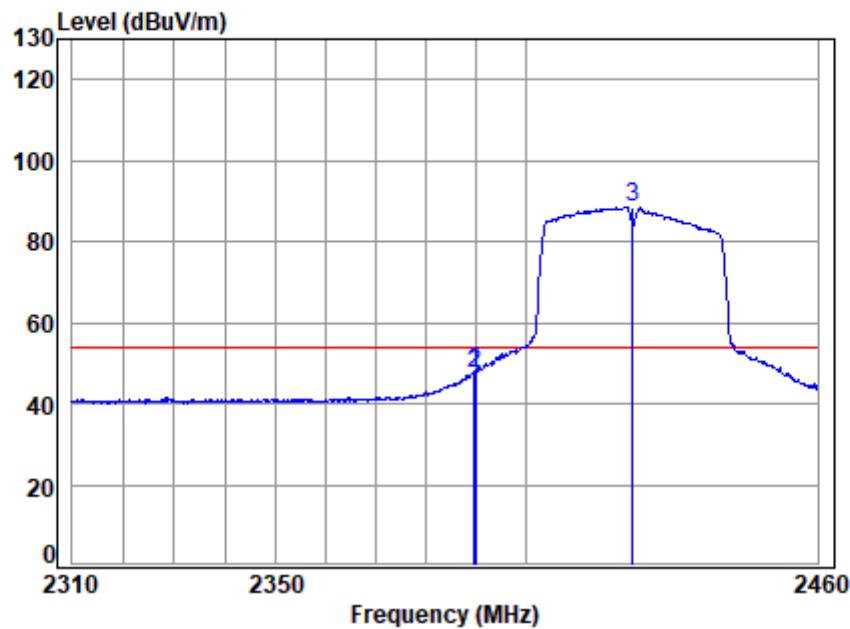
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2422 Band edge
: 2.4G WIFI 11N40

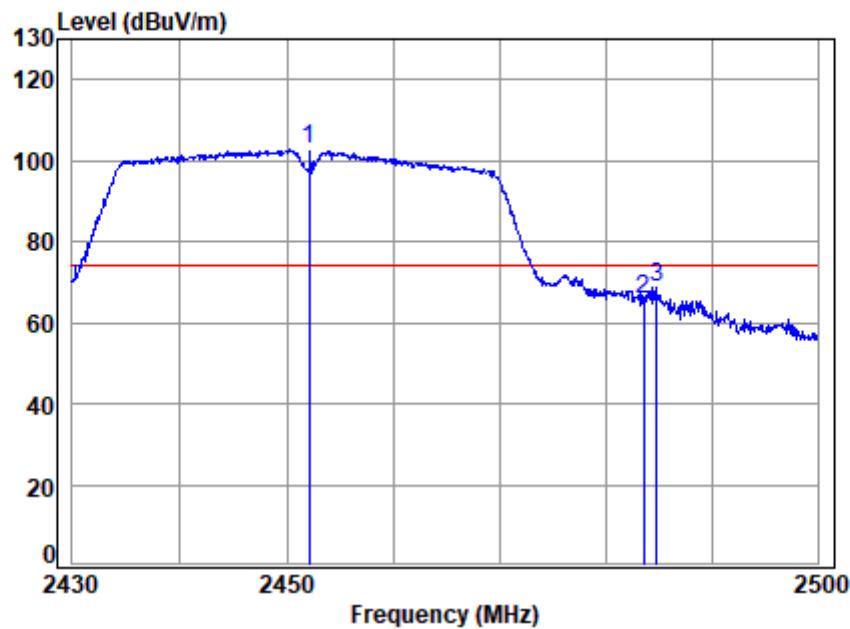
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 2389.677	15.81	29.10	32.78	35.93	48.06	54.00	-5.94 Average
2 2390.000	15.81	29.10	32.78	35.55	47.68	54.00	-6.32 Average
3 q 2422.000	15.83	29.01	32.76	76.54	88.62	54.00	34.62 Average



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dB
1 p 2452.000	15.84	28.90	32.75	90.64	102.63	74.00	28.63 peak
2 2483.500	15.86	28.90	32.73	53.75	65.78	74.00	-8.22 peak
3 2484.711	15.86	28.90	32.73	56.74	68.77	74.00	-5.23 peak

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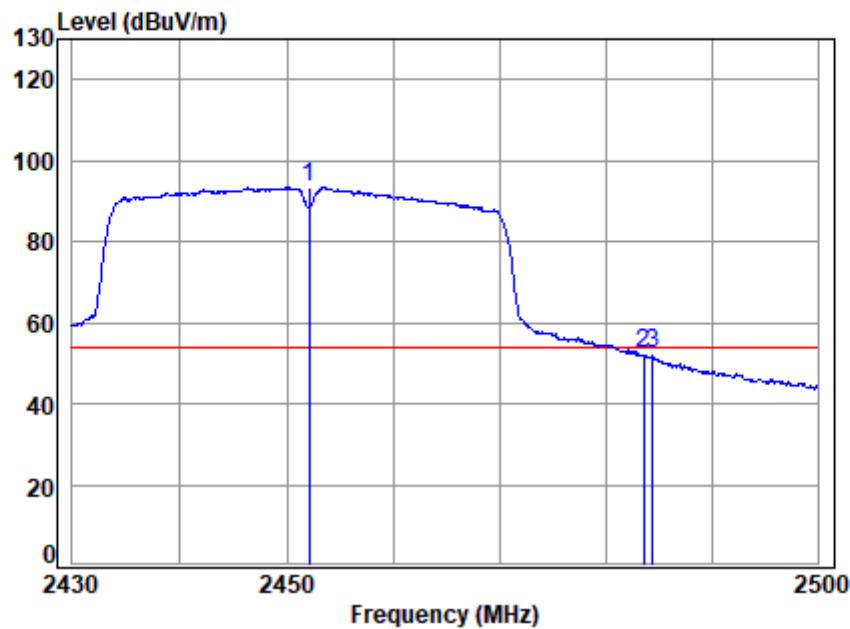
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 q 2452.000	15.84	28.90	32.75	81.39	93.38	54.00	39.38 Average
2 2483.500	15.86	28.90	32.73	40.25	52.28	54.00	-1.72 Average
3 2484.358	15.86	28.90	32.73	40.12	52.15	54.00	-1.85 Average

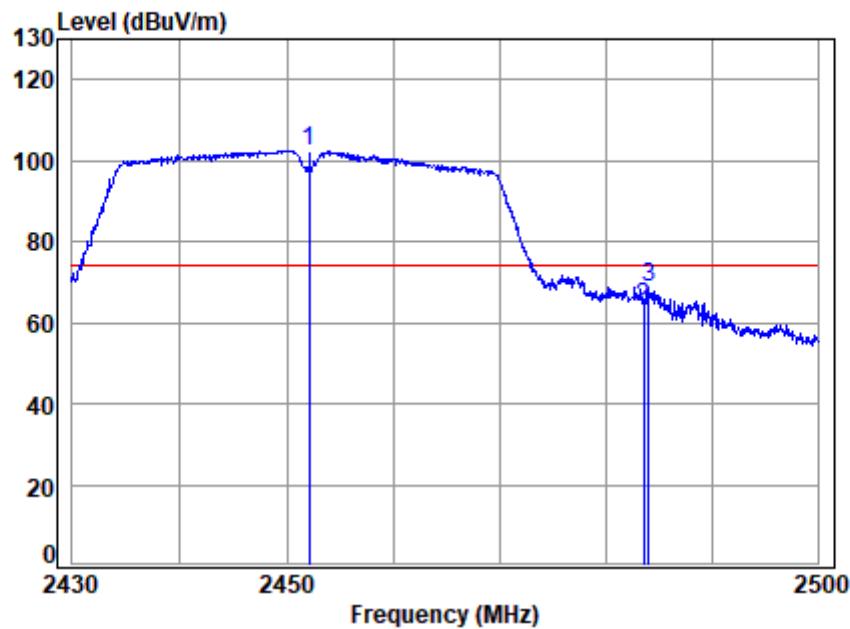
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 p 2452.000	15.84	28.90	32.75	90.55	102.54	74.00	28.54 Peak
2 2483.500	15.86	28.90	32.73	51.95	63.98	74.00	-10.02 Peak
3 2483.935	15.86	28.90	32.73	56.54	68.57	74.00	-5.43 Peak

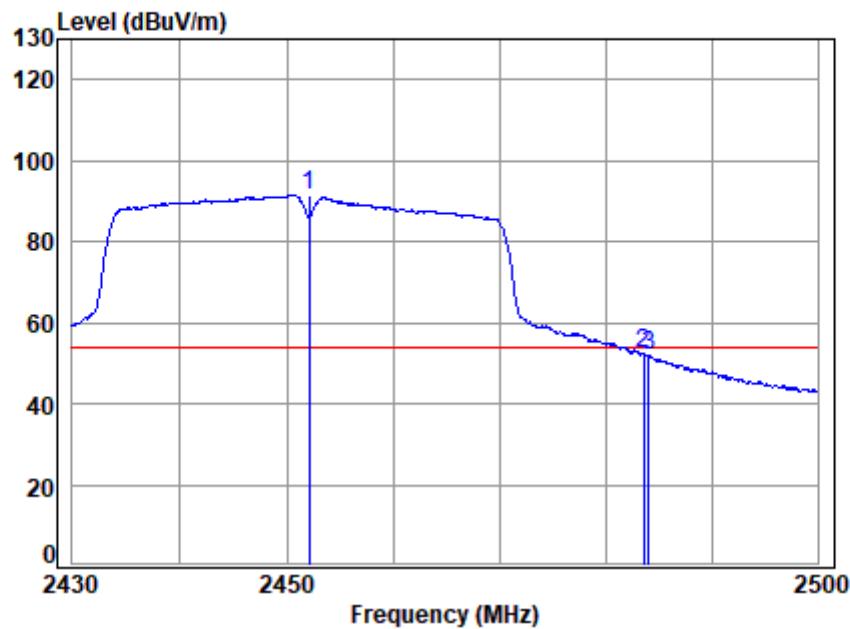
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 q 2452.000	15.84	28.90	32.75	79.49	91.48	54.00	37.48 Average
2 2483.500	15.86	28.90	32.73	40.48	52.51	54.00	-1.49 Average
3 2484.006	15.86	28.90	32.73	39.98	52.01	54.00	-1.99 Average



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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

Measurement Distance: 3m

Limit:

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Humidity: 45.6 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

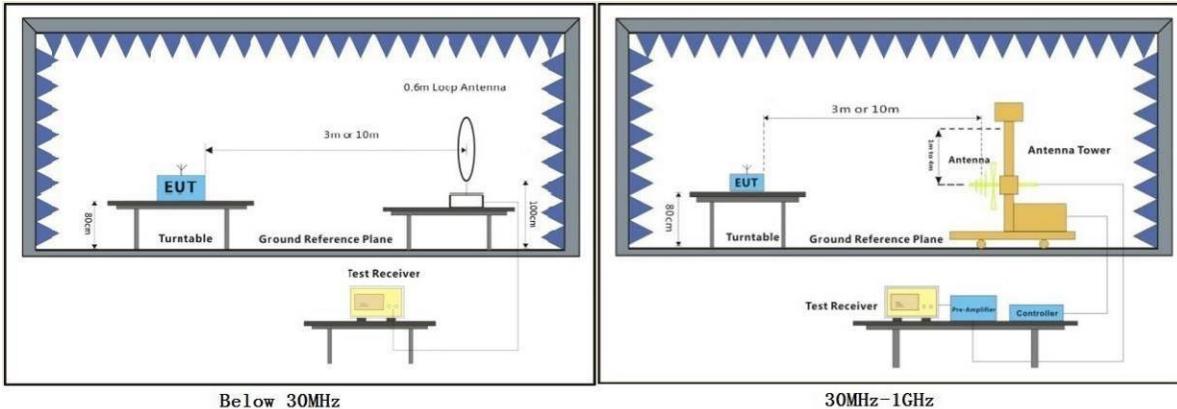
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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7.2.3 Test Setup Diagram**7.2.4 Measurement Procedure and Data**

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-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 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.

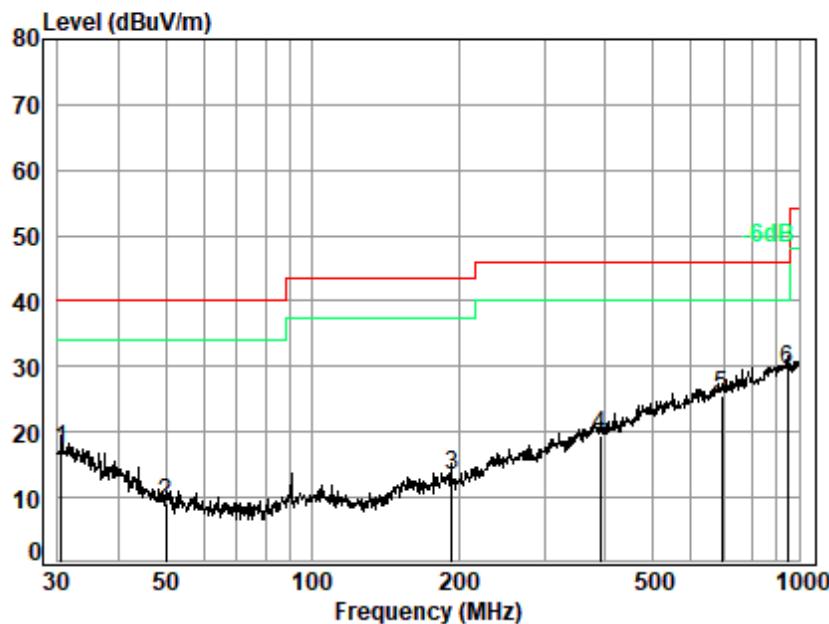
Remark:

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: 02; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 02560AT/02561AT

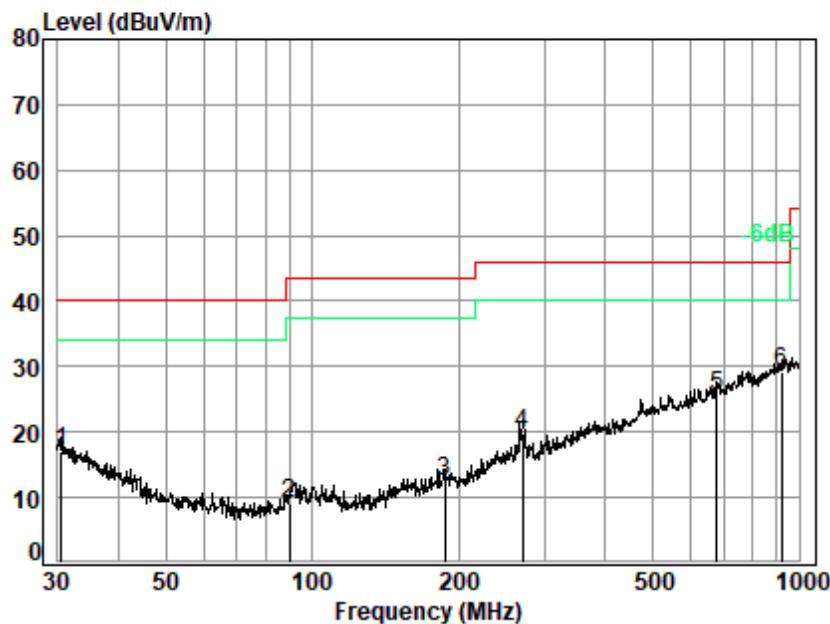
Test Mode: 02

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark	
					dB/m	dBuV	dBuV/m	dBuV/m	
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	
1	30.531	20.95	0.68	27.79	23.55	17.39	40.00	-22.61	QP
2	50.057	12.75	0.86	27.73	23.20	9.08	40.00	-30.92	QP
3	193.095	14.21	1.73	27.20	24.54	13.28	43.50	-30.22	QP
4	390.723	20.75	2.55	27.12	23.31	19.49	46.00	-26.51	QP
5	694.417	25.82	3.52	27.74	23.90	25.50	46.00	-20.50	QP
6 q	945.440	28.26	4.24	26.44	23.54	29.60	46.00	-16.40	QP

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Test Mode: 02; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 02560AT/02561AT

Test Mode: 02

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.531	20.95	0.68	27.79	23.19	17.03	40.00	-22.97 QP
2	89.590	11.69	1.16	27.62	23.83	9.06	43.50	-34.44 QP
3	187.096	14.30	1.71	27.22	23.61	12.40	43.50	-31.10 QP
4	270.375	17.10	2.09	26.87	27.55	19.87	46.00	-26.13 QP
5	677.580	25.78	3.48	27.78	24.13	25.61	46.00	-20.39 QP
6 q	922.516	28.19	4.18	26.60	23.33	29.10	46.00	-16.90 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

Measurement Distance: 3m

Limit:

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

7.3.1 E.U.T. Operation

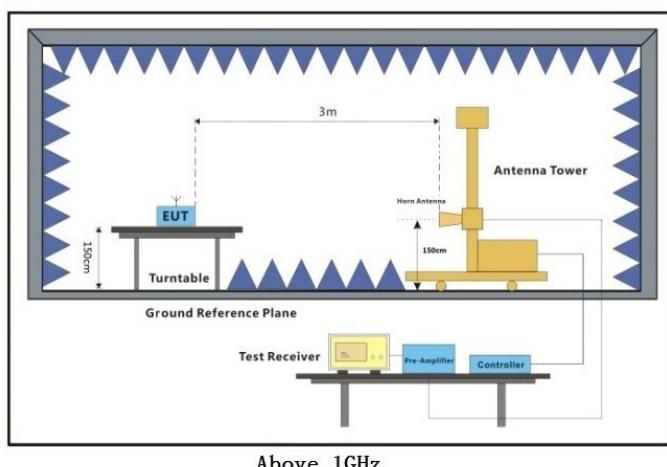
Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



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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.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



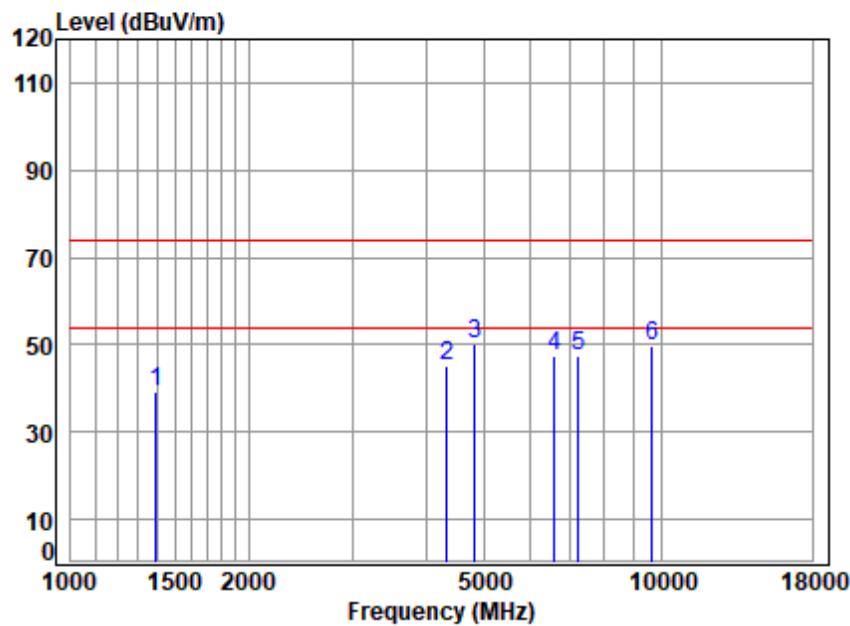
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



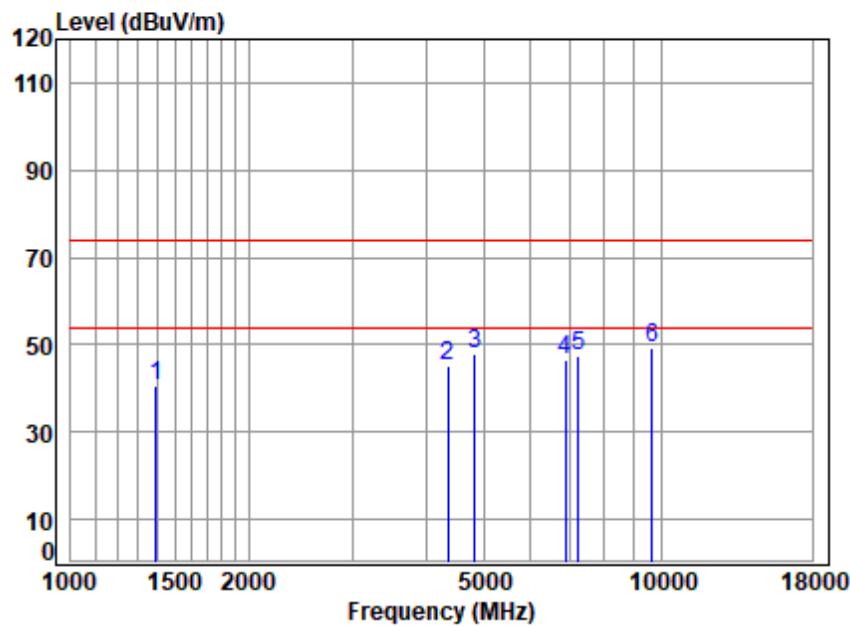
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02560AT\02561AT
 Mode : 2412 TX RSE
 : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
								dB	dB
1	1394.300	4.57	24.59	54.74	64.60	39.02	74.00	-34.98	peak
2	4329.354	8.09	34.23	54.26	56.99	45.05	74.00	-28.95	peak
3 p	4824.000	8.01	34.40	54.22	61.95	50.14	74.00	-23.86	peak
4	6583.209	9.21	35.37	53.16	55.86	47.28	74.00	-26.72	peak
5	7236.000	9.29	35.70	53.18	55.58	47.39	74.00	-26.61	peak
6	9648.000	11.38	37.50	53.34	53.98	49.52	74.00	-24.48	peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



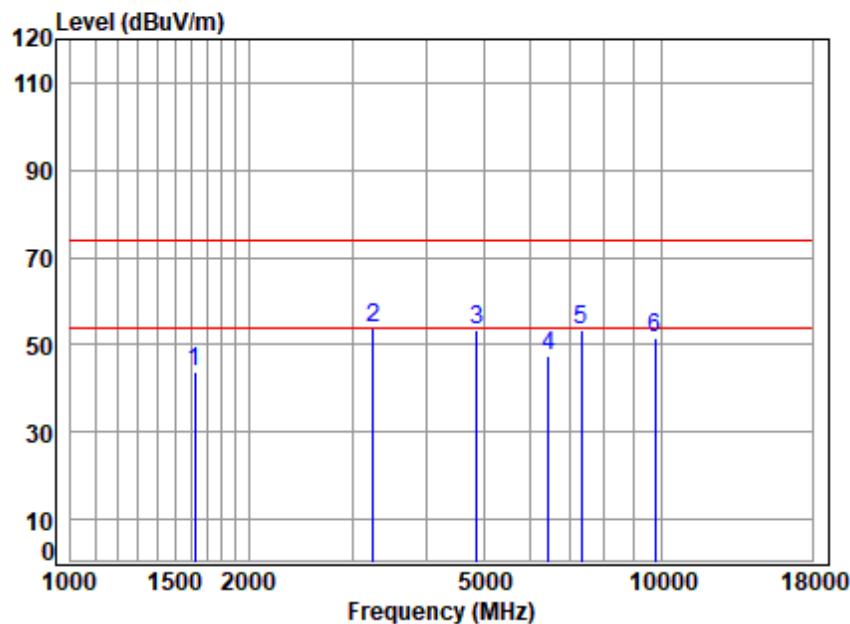
Site : chamber
 Condition: 3m VERTICAL
 Job No : 02560AT\02561AT
 Mode : 2412 TX RSE
 : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1394.300	4.57	24.59	54.74	65.97	40.39	74.00	-33.61	peak
2	4354.454	8.06	34.44	54.26	56.77	45.01	74.00	-28.99	peak
3	4824.000	8.01	34.40	54.22	59.92	48.11	74.00	-25.89	peak
4	6874.906	9.44	35.55	53.19	54.56	46.36	74.00	-27.64	peak
5	7236.000	9.29	35.70	53.18	55.65	47.46	74.00	-26.54	peak
6	p 9648.000	11.38	37.50	53.34	53.81	49.35	74.00	-24.65	peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2437 TX RSE
: 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1625.121	4.84	26.55	54.81	67.43	44.01	74.00	-29.99 peak
2 p 3252.005	6.80	32.06	54.80	69.93	53.99	74.00	-20.01 peak
3 4874.000	8.03	34.60	54.21	65.16	53.58	74.00	-20.42 peak
4 6451.353	9.18	35.50	53.15	55.71	47.24	74.00	-26.76 peak
5 7311.000	9.21	35.70	53.17	61.44	53.18	74.00	-20.82 peak
6 9748.000	11.32	37.40	53.30	56.21	51.63	74.00	-22.37 peak

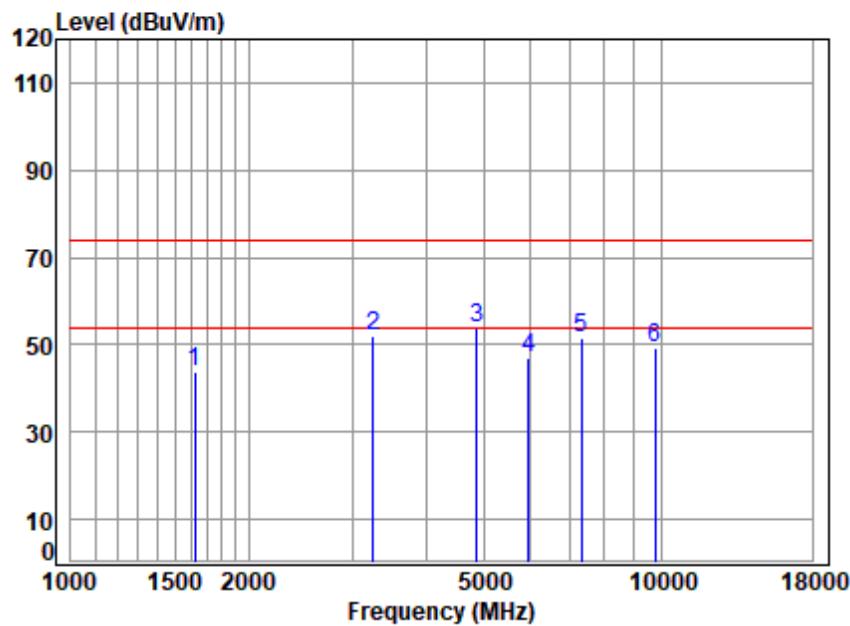
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2437 TX RSE
: 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1625.121	4.84	26.55	54.81	67.06	43.64	74.00	-30.36 peak
2 3252.005	6.80	32.06	54.80	67.81	51.87	74.00	-22.13 peak
3 p 4874.000	8.03	34.60	54.21	65.38	53.80	74.00	-20.20 peak
4 5967.033	9.51	34.77	53.13	55.80	46.95	74.00	-27.05 peak
5 7311.000	9.21	35.70	53.17	59.60	51.34	74.00	-22.66 peak
6 9748.000	11.32	37.40	53.30	53.81	49.23	74.00	-24.77 peak

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Shenzhen Branch Testing Services LLC Laboratory

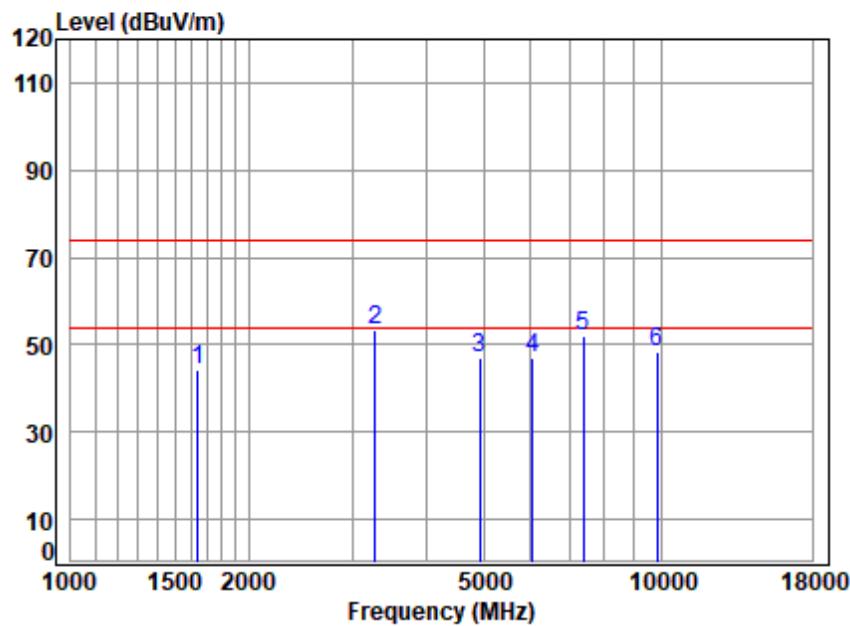
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



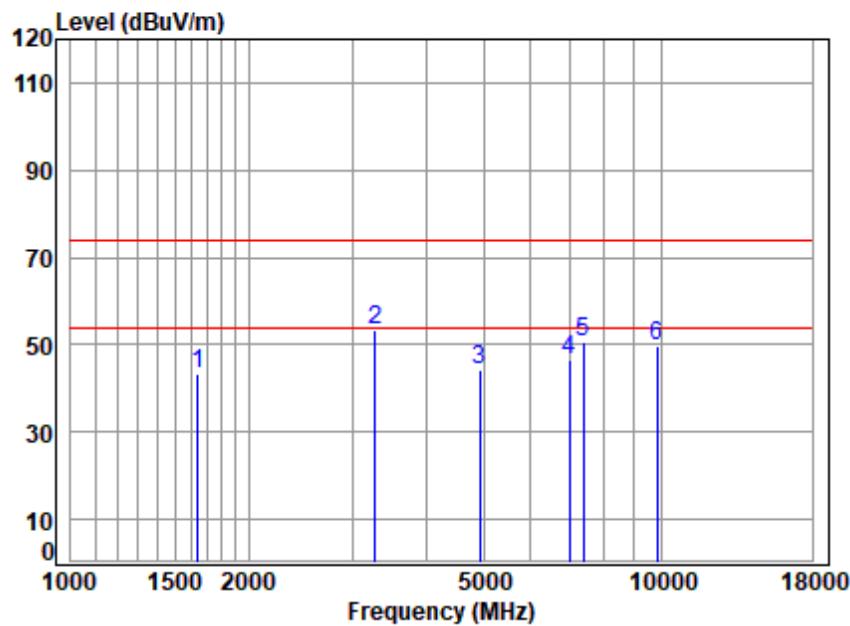
Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2462 TX RSE
: 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1639.274	4.87	26.41	54.81	67.97	44.44	74.00	-29.56 peak
2 p 3280.326	6.81	31.55	54.78	69.58	53.16	74.00	-20.84 peak
3 4924.000	8.05	34.65	54.21	58.67	47.16	74.00	-26.84 peak
4 6053.894	9.48	35.01	53.11	55.71	47.09	74.00	-26.91 peak
5 7386.000	9.14	35.77	53.16	60.25	52.00	74.00	-22.00 peak
6 9848.000	11.27	37.20	53.26	53.09	48.30	74.00	-25.70 peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

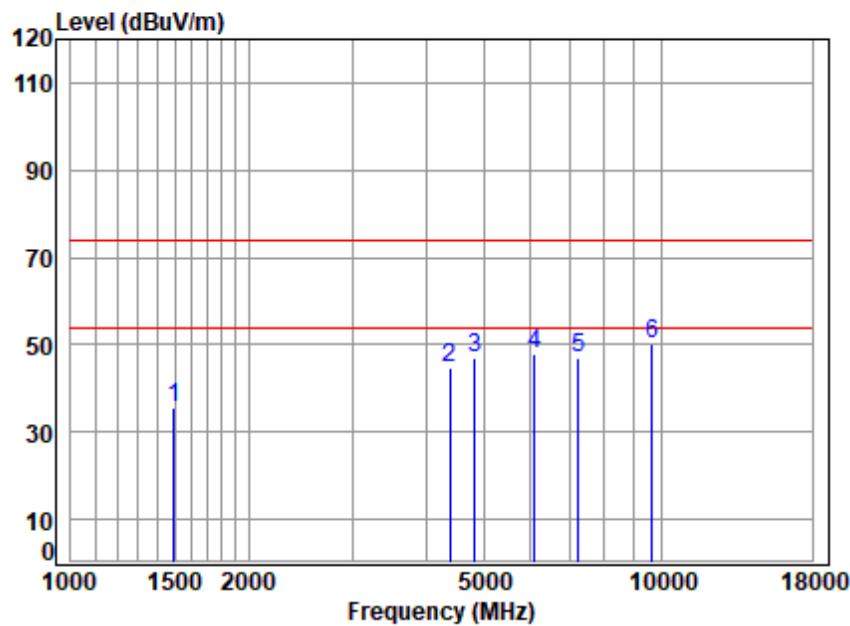


Site : chamber
 Condition: 3m VERTICAL
 Job No : 02560AT\02561AT
 Mode : 2462 TX RSE
 : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1 1639.274	4.87	26.41	54.81	67.07	43.54	74.00	-30.46	peak	
2 p 3280.326	6.81	31.55	54.78	70.01	53.59	74.00	-20.41	peak	
3 4924.000	8.05	34.65	54.21	55.81	44.30	74.00	-29.70	peak	
4 6974.982	9.51	35.75	53.20	54.49	46.55	74.00	-27.45	peak	
5 7386.000	9.14	35.77	53.16	58.98	50.73	74.00	-23.27	peak	
6 9848.000	11.27	37.20	53.26	54.45	49.66	74.00	-24.34	peak	



Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



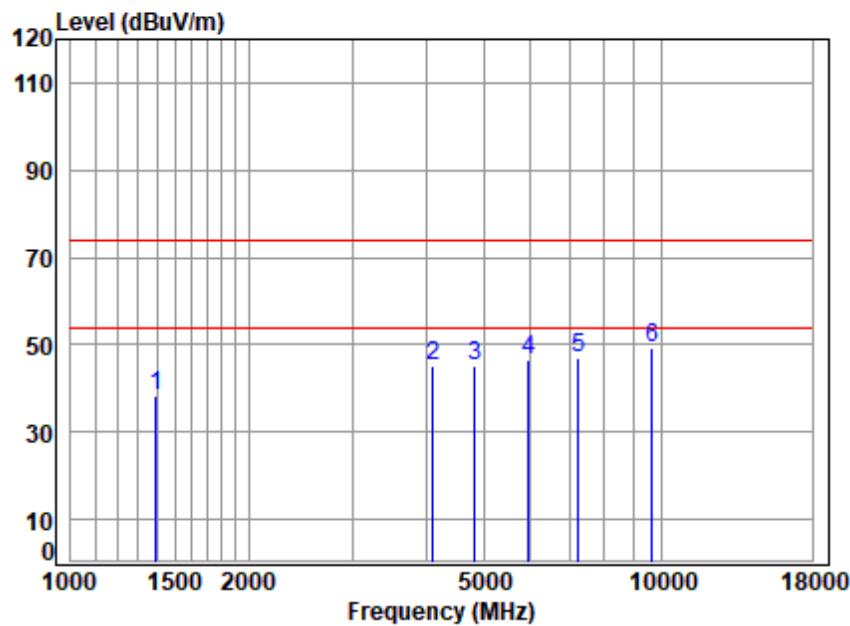
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02560AT\02561AT
 Mode : 2412 TX RSE
 : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit		Remark
							dB	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	
1 1494.455	4.57	26.64	54.77	59.04	35.48	74.00	-38.52	peak	
2 4379.699	8.02	34.64	54.26	56.47	44.87	74.00	-29.13	peak	
3 4824.000	8.01	34.40	54.22	58.78	46.97	74.00	-27.03	peak	
4 6106.616	9.44	35.07	53.11	56.53	47.93	74.00	-26.07	peak	
5 7236.000	9.29	35.70	53.18	55.15	46.96	74.00	-27.04	peak	
6 p 9648.000	11.38	37.50	53.34	54.76	50.30	74.00	-23.70	peak	

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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



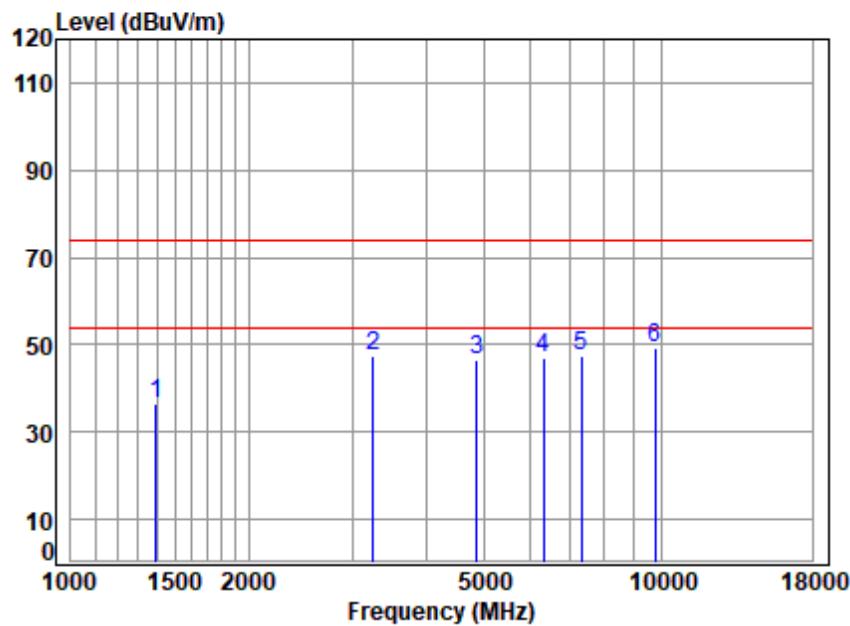
Site : chamber
 Condition: 3m VERTICAL
 Job No : 02560AT\02561AT
 Mode : 2412 TX RSE
 : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1394.300	4.57	24.59	54.74	64.07	38.49	74.00	-35.51 peak
2 4109.872	8.40	33.16	54.29	57.92	45.19	74.00	-28.81 peak
3 4824.000	8.01	34.40	54.22	56.80	44.99	74.00	-29.01 peak
4 5949.811	9.50	34.70	53.15	55.46	46.51	74.00	-27.49 peak
5 7236.000	9.29	35.70	53.18	55.25	47.06	74.00	-26.94 peak
6 p 9648.000	11.38	37.50	53.34	53.89	49.43	74.00	-24.57 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



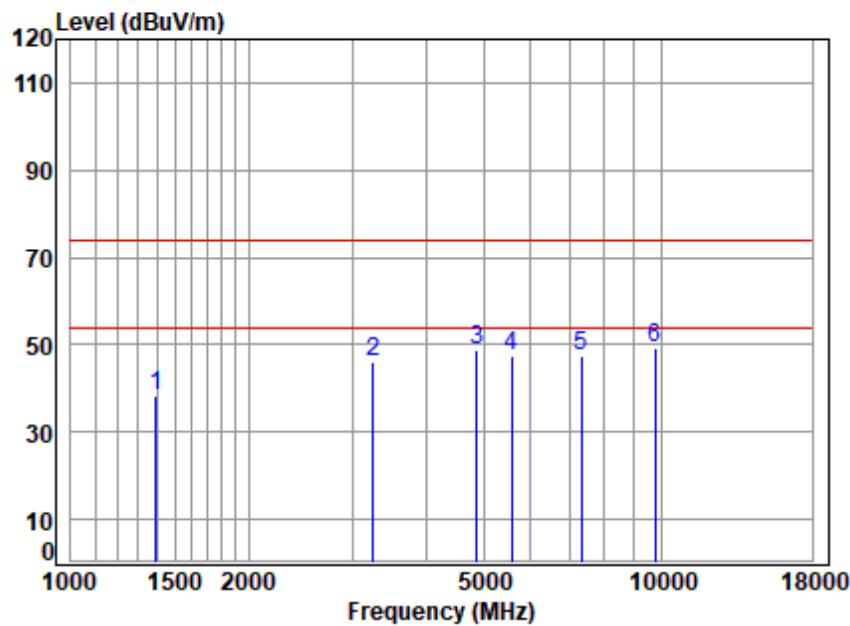
Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2437 TX RSE
: 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1394.300	4.57	24.59	54.74	61.90	36.32	74.00	-37.68 peak
2 3252.005	6.80	32.06	54.80	63.53	47.59	74.00	-26.41 peak
3 4874.000	8.03	34.60	54.21	58.02	46.44	74.00	-27.56 peak
4 6322.136	9.27	34.96	53.13	55.71	46.81	74.00	-27.19 peak
5 7311.000	9.21	35.70	53.17	55.92	47.66	74.00	-26.34 peak
6 p 9748.000	11.32	37.40	53.30	53.78	49.20	74.00	-24.80 peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



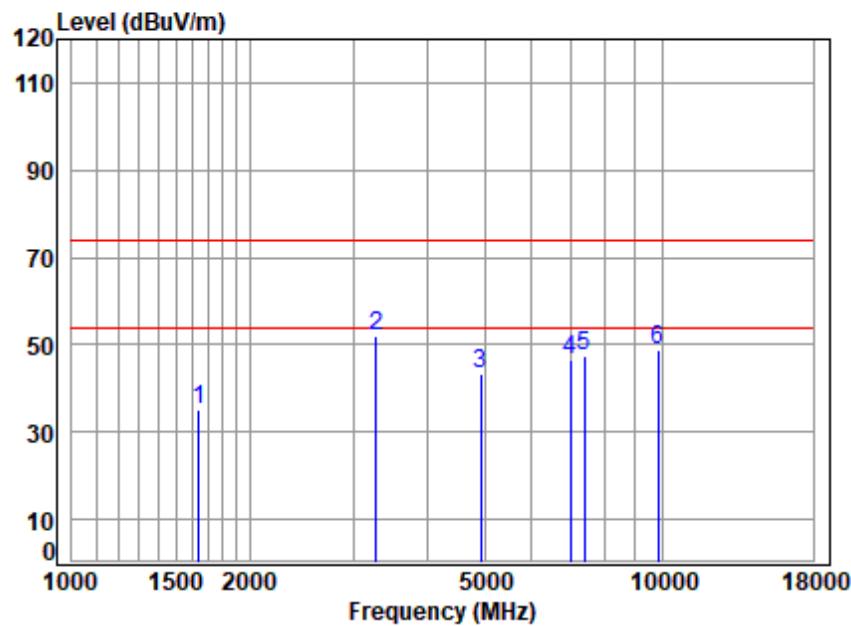
Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2437 TX RSE
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1394.300	4.57	24.59	54.74	63.89	38.31	74.00	-35.69 peak
2 3252.005	6.80	32.06	54.80	61.83	45.89	74.00	-28.11 peak
3 4874.000	8.03	34.60	54.21	60.24	48.66	74.00	-25.34 peak
4 5583.251	9.34	34.70	53.53	57.02	47.53	74.00	-26.47 peak
5 7311.000	9.21	35.70	53.17	55.70	47.44	74.00	-26.56 peak
6 p 9748.000	11.32	37.40	53.30	53.72	49.14	74.00	-24.86 peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



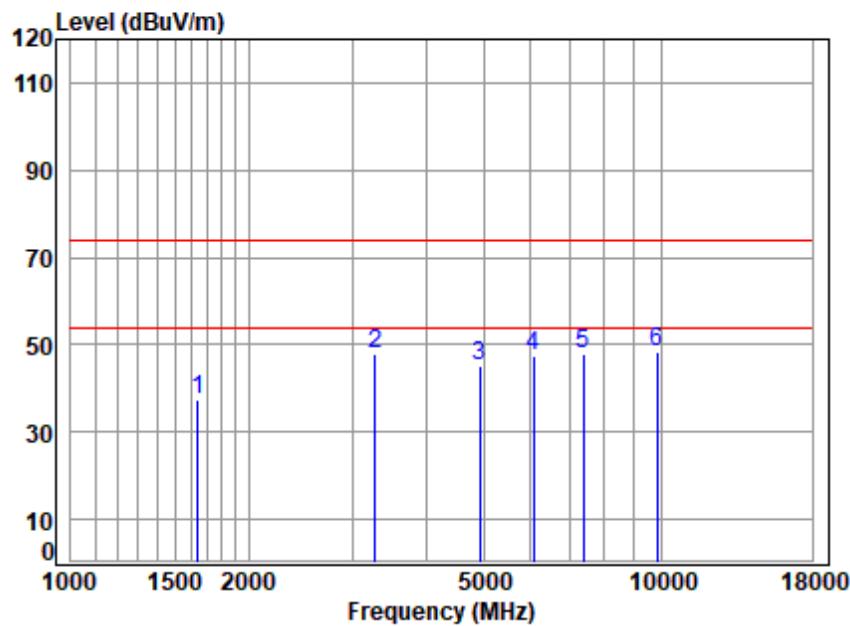
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02560AT\02561AT
 Mode : 2462 TX RSE
 : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit		Remark
							dB	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	
1 1639.274	4.87	26.41	54.81	58.65	35.12	74.00	-38.88	peak	
2 p 3280.326	6.81	31.55	54.78	68.25	51.83	74.00	-22.17	peak	
3 4924.000	8.05	34.65	54.21	55.02	43.51	74.00	-30.49	peak	
4 6995.172	9.53	35.71	53.20	54.66	46.70	74.00	-27.30	peak	
5 7386.000	9.14	35.77	53.16	55.66	47.41	74.00	-26.59	peak	
6 9848.000	11.27	37.20	53.26	53.42	48.63	74.00	-25.37	peak	

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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



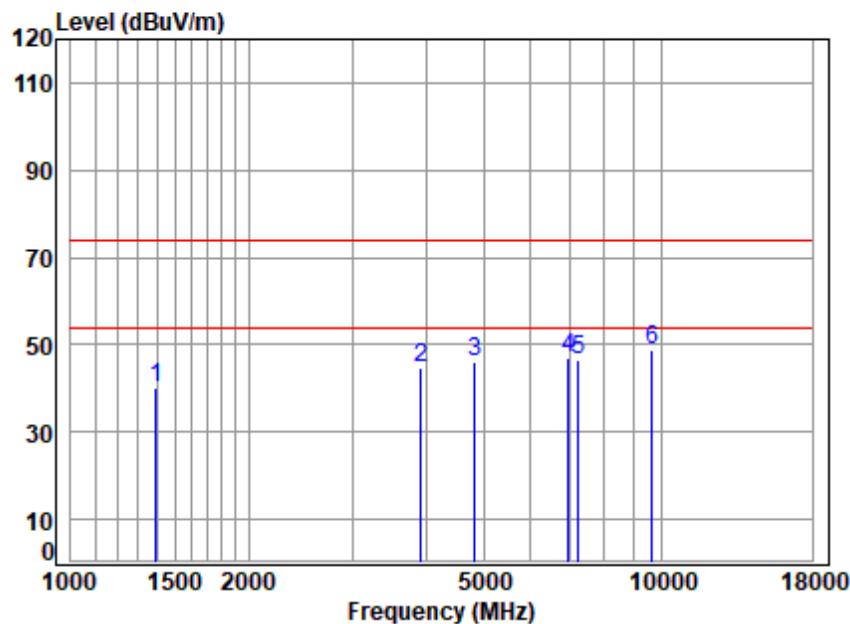
Site : chamber
 Condition: 3m VERTICAL
 Job No : 02560AT\02561AT
 Mode : 2462 TX RSE
 : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1639.274	4.87	26.41	54.81	60.85	37.32	74.00	-36.68	peak
2	3280.326	6.81	31.55	54.78	64.37	47.95	74.00	-26.05	peak
3	4924.000	8.05	34.65	54.21	56.57	45.06	74.00	-28.94	peak
4	6071.417	9.46	35.04	53.11	55.98	47.37	74.00	-26.63	peak
5	7386.000	9.14	35.77	53.16	56.08	47.83	74.00	-26.17	peak
6	p 9848.000	11.27	37.20	53.26	53.08	48.29	74.00	-25.71	peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



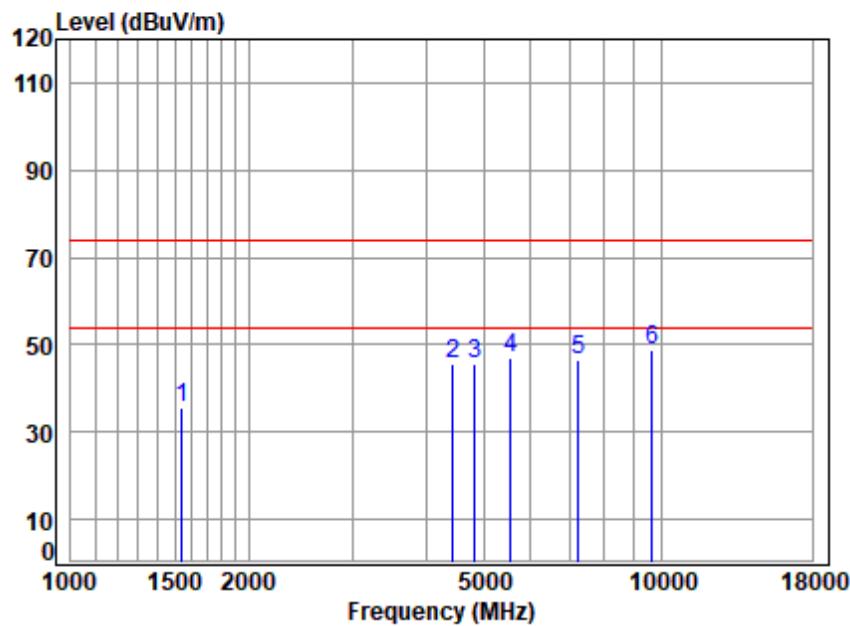
Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2412 TX RSE
: 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1394.300	4.57	24.59	54.74	65.93	40.35	74.00	-33.65 peak
2 3924.135	8.32	33.66	54.35	57.27	44.90	74.00	-29.10 peak
3 4824.000	8.01	34.40	54.22	57.72	45.91	74.00	-28.09 peak
4 6954.852	9.50	35.79	53.20	54.95	47.04	74.00	-26.96 peak
5 7236.000	9.29	35.70	53.18	54.88	46.69	74.00	-27.31 peak
6 p 9648.000	11.38	37.50	53.34	53.39	48.93	74.00	-25.07 peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2412 TX RSE
: 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1542.733	4.66	26.97	54.79	58.55	35.39	74.00	-38.61 peak
2 4430.628	7.95	34.43	54.25	57.59	45.72	74.00	-28.28 peak
3 4824.000	8.01	34.40	54.22	57.29	45.48	74.00	-28.52 peak
4 5567.137	9.33	34.70	53.55	56.65	47.13	74.00	-26.87 peak
5 7236.000	9.29	35.70	53.18	54.79	46.60	74.00	-27.40 peak
6 p 9648.000	11.38	37.50	53.34	53.47	49.01	74.00	-24.99 peak

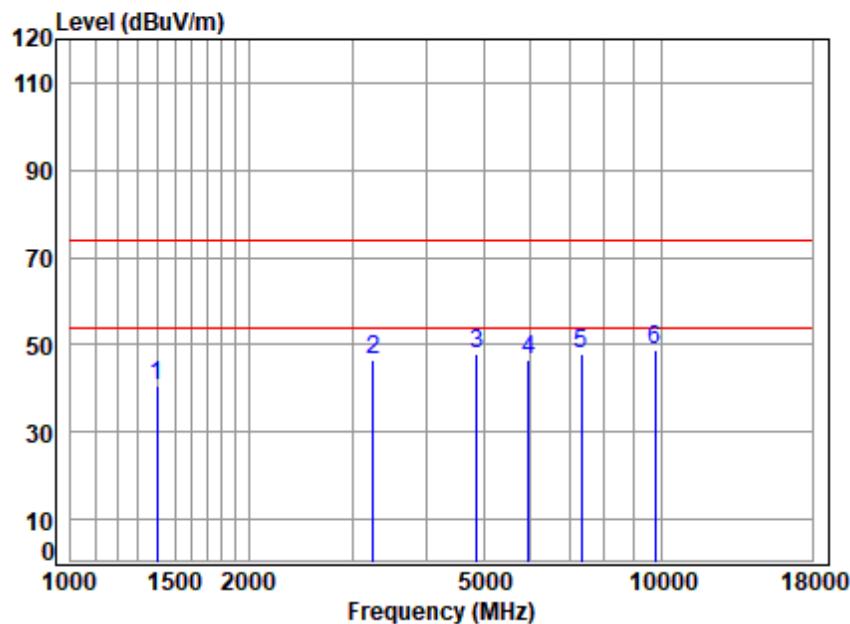
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



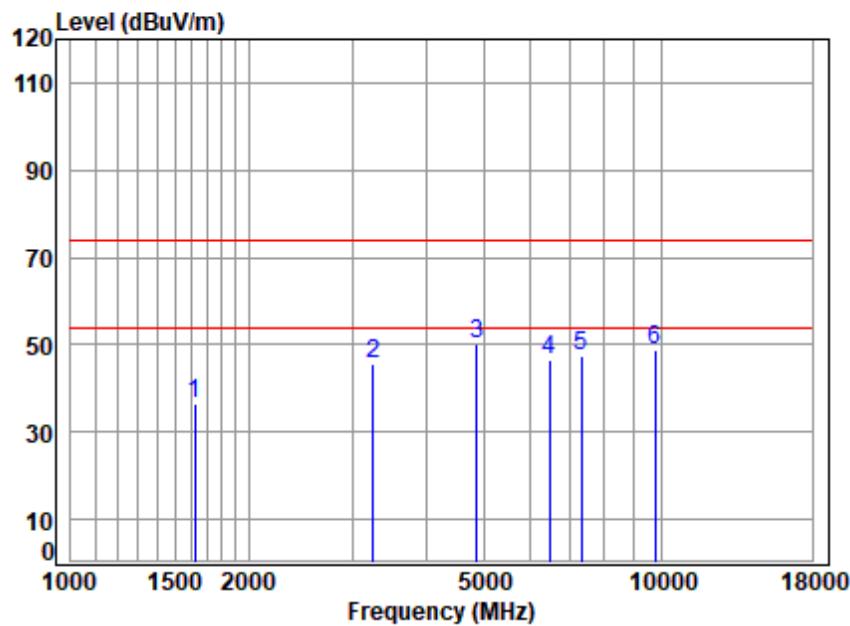
Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1398.336	4.57	24.60	54.75	66.37	40.79	74.00	-33.21 peak
2 3252.005	6.80	32.06	54.80	62.53	46.59	74.00	-27.41 peak
3 4874.000	8.03	34.60	54.21	59.48	47.90	74.00	-26.10 peak
4 5949.811	9.50	34.70	53.15	55.36	46.41	74.00	-27.59 peak
5 7311.000	9.21	35.70	53.17	56.37	48.11	74.00	-25.89 peak
6 p 9748.000	11.32	37.40	53.30	53.31	48.73	74.00	-25.27 peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02560AT\02561AT
 Mode : 2437 TX RSE
 : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
								dB	
1	1625.121	4.84	26.55	54.81	59.70	36.28	74.00	-37.72	peak
2	3252.005	6.80	32.06	54.80	61.47	45.53	74.00	-28.47	peak
3 p	4874.000	8.03	34.60	54.21	61.63	50.05	74.00	-23.95	peak
4	6470.026	9.16	35.54	53.15	55.19	46.74	74.00	-27.26	peak
5	7311.000	9.21	35.70	53.17	55.66	47.40	74.00	-26.60	peak
6	9748.000	11.32	37.40	53.30	53.56	48.98	74.00	-25.02	peak

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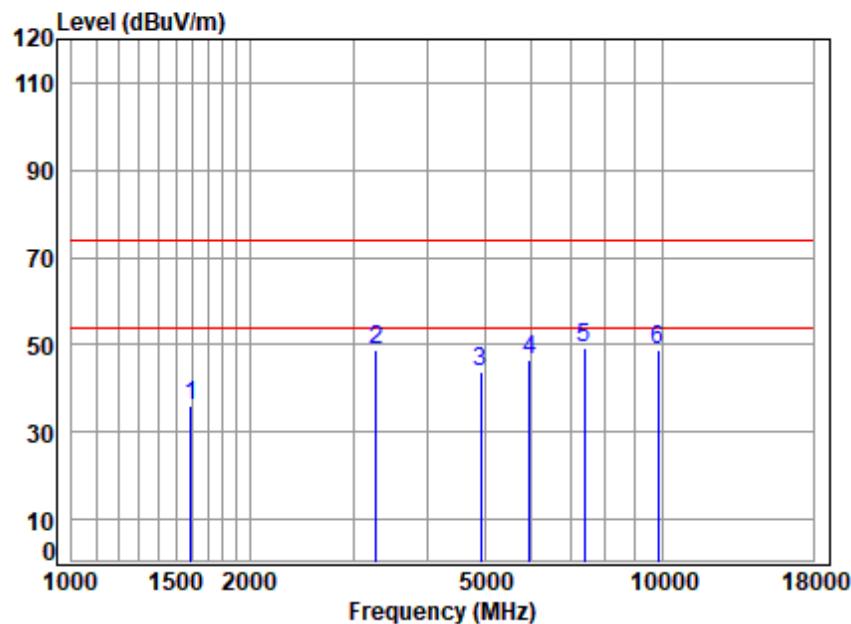
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



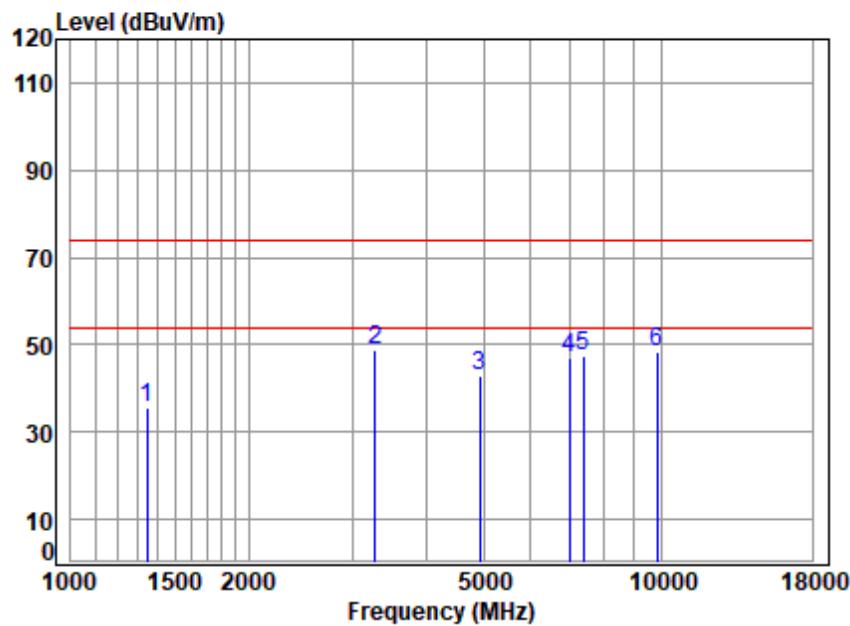
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02560AT\02561AT
 Mode : 2462 TX RSE
 : 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1592.571	4.77	26.83	54.80	59.09	35.89	74.00	-38.11 peak
2 3280.326	6.81	31.55	54.78	65.09	48.67	74.00	-25.33 peak
3 4924.000	8.05	34.65	54.21	55.23	43.72	74.00	-30.28 peak
4 5949.811	9.50	34.70	53.15	55.57	46.62	74.00	-27.38 peak
5 p 7386.000	9.14	35.77	53.16	57.51	49.26	74.00	-24.74 peak
6 9848.000	11.27	37.20	53.26	53.47	48.68	74.00	-25.32 peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

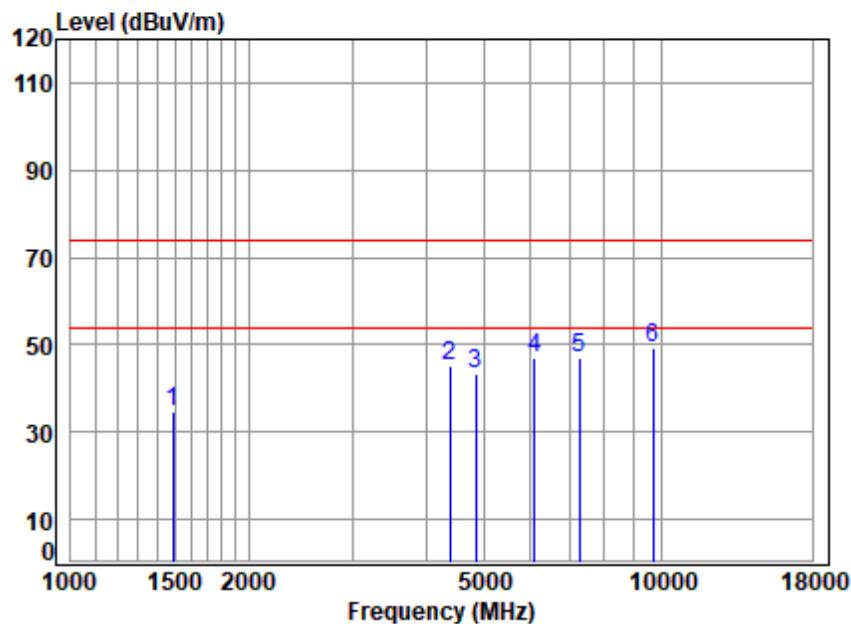


Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2462 TX RSE
: 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1346.769	4.56	24.52	54.73	61.32	35.67	74.00	-38.33 peak
2 p 3280.326	6.81	31.55	54.78	65.13	48.71	74.00	-25.29 peak
3 4924.000	8.05	34.65	54.21	54.42	42.91	74.00	-31.09 peak
4 6974.982	9.51	35.75	53.20	55.06	47.12	74.00	-26.88 peak
5 7386.000	9.14	35.77	53.16	55.54	47.29	74.00	-26.71 peak
6 9848.000	11.27	37.20	53.26	53.26	48.47	74.00	-25.53 peak



Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2422 TX RSE
: 2.4G WIFI 11N40

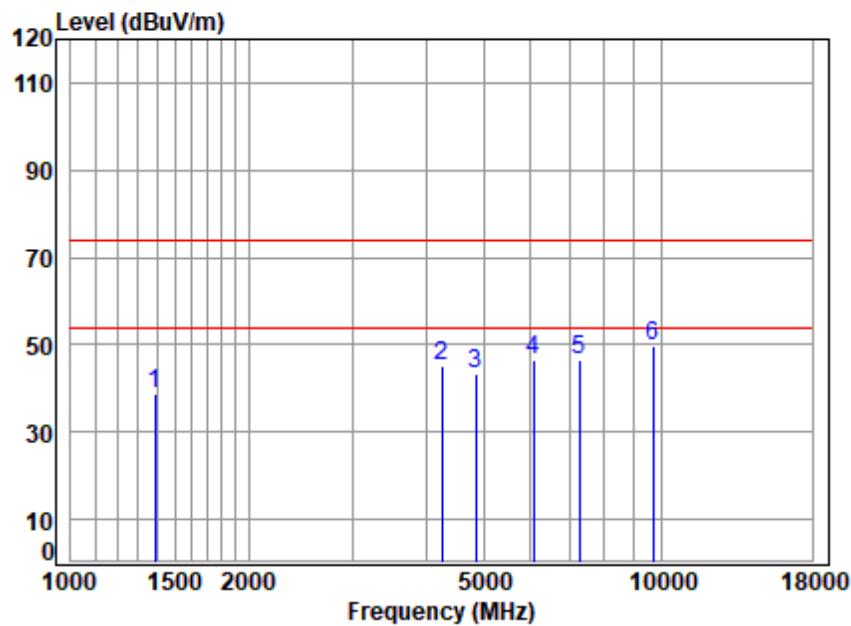
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1490.142	4.57	26.52	54.77	58.40	34.72	74.00	-39.28 peak
2 4379.699	8.02	34.64	54.26	56.80	45.20	74.00	-28.80 peak
3 4844.000	8.01	34.48	54.21	54.89	43.17	74.00	-30.83 peak
4 6088.991	9.45	35.08	53.11	55.62	47.04	74.00	-26.96 peak
5 7266.000	9.26	35.70	53.17	55.42	47.21	74.00	-26.79 peak
6 p 9688.000	11.36	37.50	53.32	53.90	49.44	74.00	-24.56 peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



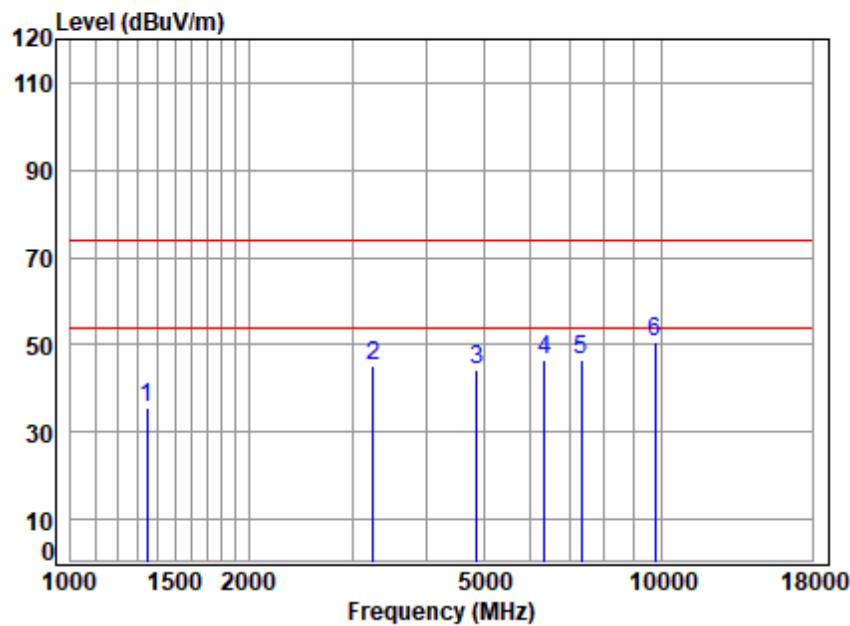
Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2422 TX RSE
: 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1390.276	4.57	24.58	54.74	64.15	38.56	74.00	-35.44	peak	
2 4254.921	8.19	33.82	54.27	57.27	45.01	74.00	-28.99	peak	
3 4844.000	8.01	34.48	54.21	54.89	43.17	74.00	-30.83	peak	
4 6071.417	9.46	35.04	53.11	55.21	46.60	74.00	-27.40	peak	
5 7266.000	9.26	35.70	53.17	54.68	46.47	74.00	-27.53	peak	
6 p 9688.000	11.36	37.50	53.32	53.98	49.52	74.00	-24.48	peak	

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



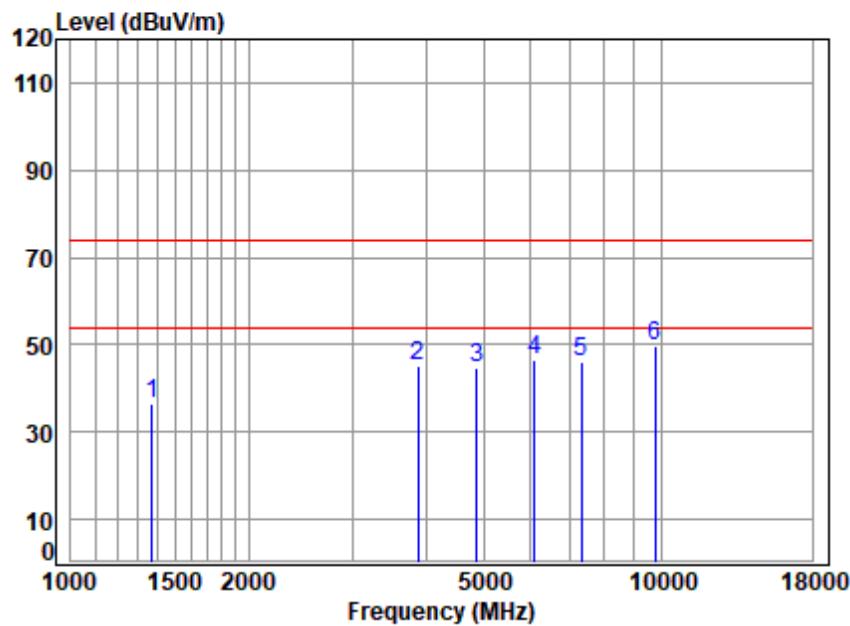
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02560AT\02561AT
 Mode : 2437 TX RSE
 : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1346.769	4.56	24.52	54.73	61.23	35.58	74.00	-38.42	peak
2	3252.005	6.80	32.06	54.80	61.03	45.09	74.00	-28.91	peak
3	4874.000	8.03	34.60	54.21	55.94	44.36	74.00	-29.64	peak
4	6340.436	9.26	34.92	53.14	55.71	46.75	74.00	-27.25	peak
5	7311.000	9.21	35.70	53.17	54.80	46.54	74.00	-27.46	peak
6 p	9748.000	11.32	37.40	53.30	55.15	50.57	74.00	-23.43	peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle

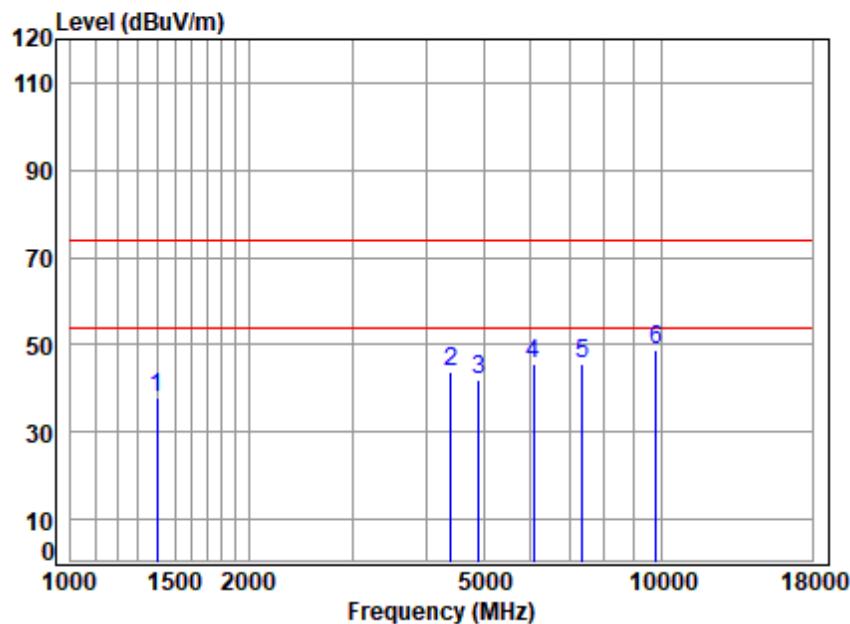


Site : chamber
Condition: 3m VERTICAL
Job No : 02560AT\02561AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1370.328	4.57	24.54	54.74	62.25	36.62	74.00	-37.38 peak
2 3867.831	8.14	33.35	54.38	57.98	45.09	74.00	-28.91 peak
3 4874.000	8.03	34.60	54.21	56.17	44.59	74.00	-29.41 peak
4 6106.616	9.44	35.07	53.11	55.17	46.57	74.00	-27.43 peak
5 7311.000	9.21	35.70	53.17	54.17	45.91	74.00	-28.09 peak
6 p 9748.000	11.32	37.40	53.30	54.18	49.60	74.00	-24.40 peak



Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02560AT\02561AT
Mode : 2452 TX RSE
: 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1398.336	4.57	24.60	54.75	63.43	37.85	74.00	-36.15 peak
2 4405.090	7.99	34.74	54.26	55.34	43.81	74.00	-30.19 peak
3 4904.000	8.04	34.69	54.21	53.49	42.01	74.00	-31.99 peak
4 6071.417	9.46	35.04	53.11	54.38	45.77	74.00	-28.23 peak
5 7356.000	9.17	35.71	53.16	54.02	45.74	74.00	-28.26 peak
6 p 9808.000	11.29	37.28	53.27	53.35	48.65	74.00	-25.35 peak

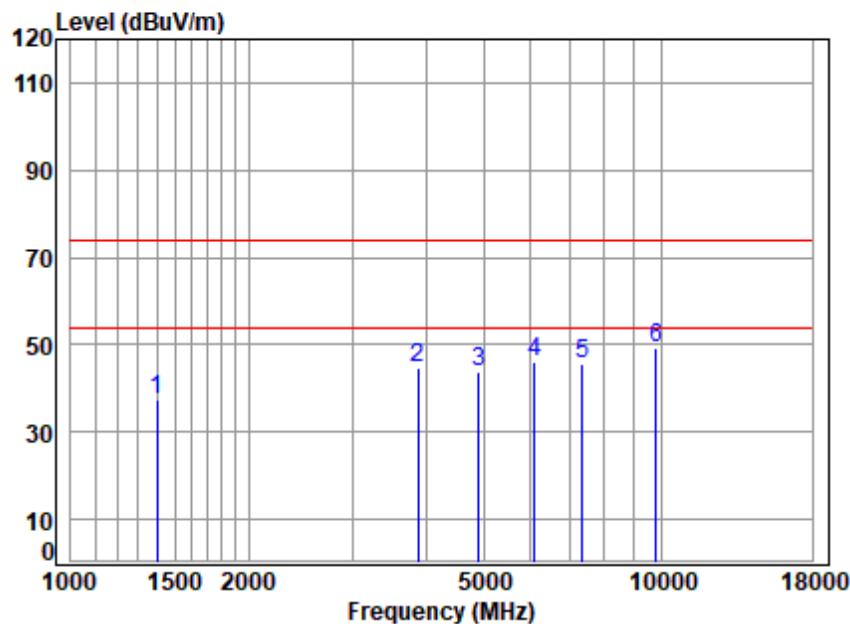
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02560AT\02561AT
 Mode : 2452 TX RSE
 : 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1398.336	4.57	24.60	54.75	63.07	37.49	74.00	-36.51 peak
2 3879.027	8.18	33.51	54.37	57.21	44.53	74.00	-29.47 peak
3 4904.000	8.04	34.69	54.21	55.39	43.91	74.00	-30.09 peak
4 6106.616	9.44	35.07	53.11	54.53	45.93	74.00	-28.07 peak
5 7356.000	9.17	35.71	53.16	54.12	45.84	74.00	-28.16 peak
6 p 9808.000	11.29	37.28	53.27	54.08	49.38	74.00	-24.62 peak

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7.4 Conducted Peak Output Power

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

Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 26.0 °C

Humidity: 45.8 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

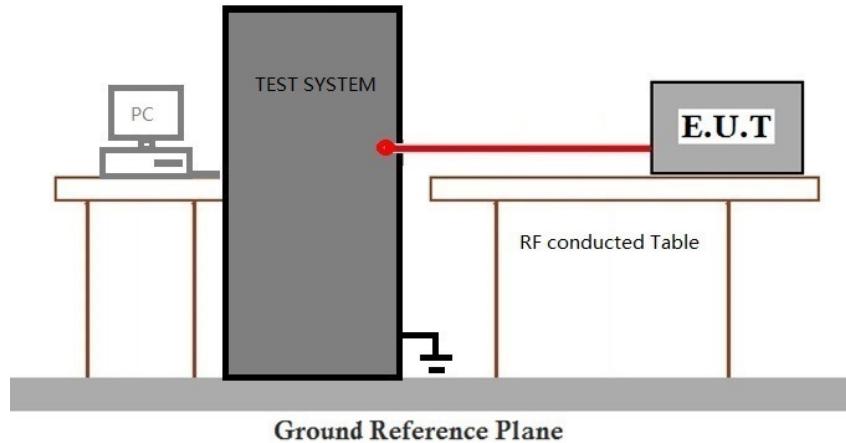
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details

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7.5 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

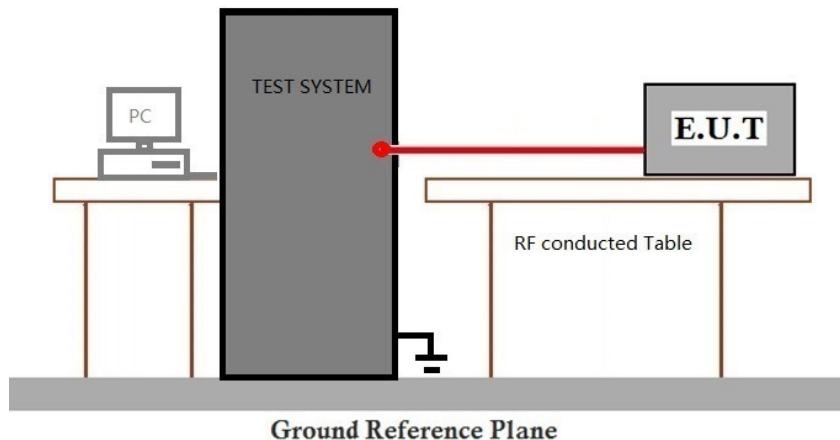
Operating Environment:

Temperature: 26.0 °C Humidity: 45.8 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Shenzhen Branch (SGS-CSTC) EEC Laboratory

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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

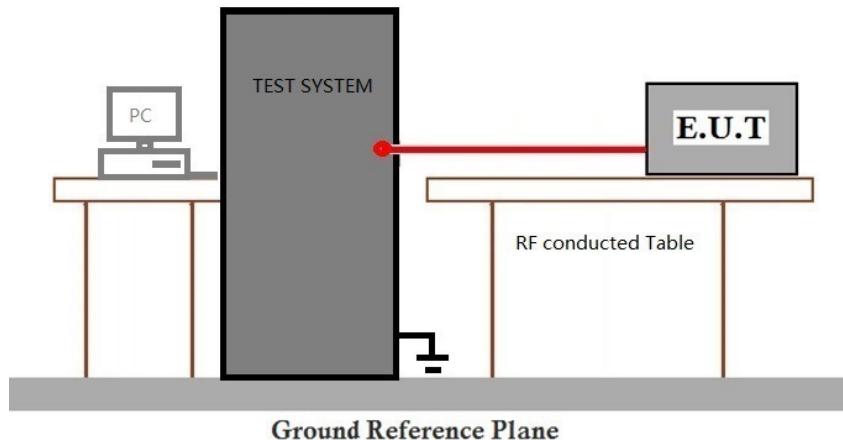
Operating Environment:

Temperature: 26.0 °C Humidity: 45.8 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Conducted Band Edges Measurement

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

Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 26.0 °C Humidity: 45.8 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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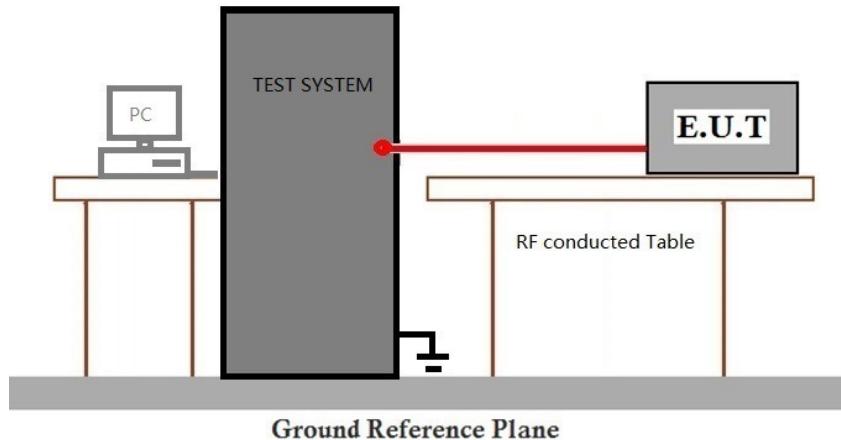


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7.7.3 Test Setup Diagram



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)

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

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 26.0 °C Humidity: 45.8 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

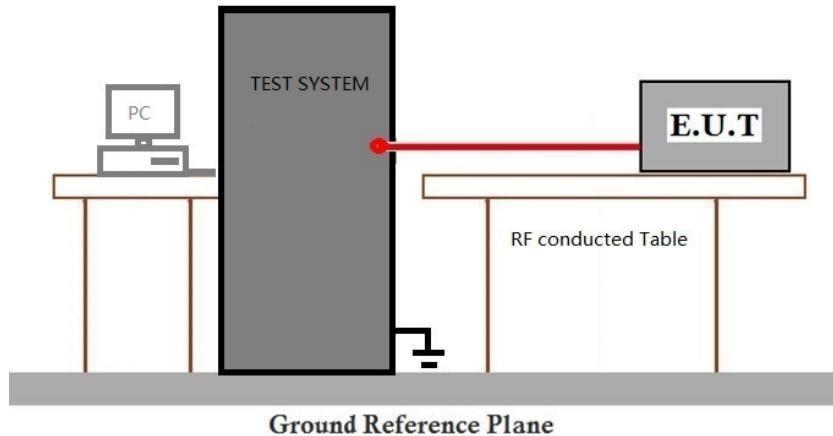
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7.8.3 Test Setup Diagram**7.8.4 Measurement Procedure and Data**

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8 Test Setup Photo

Refer to Appendix BLE&2.4G WIFI – Test Setup Photos for SZCR2506002560AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2506002560AT

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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.450	50.263	16.81	7.74	81.94
		2437	8.447	8.647	97.69	0.10	1.45
		2462	8.447	45.710	18.48	7.33	80.69
802.11g	SISO	2412	1.402	1.615	86.81	0.61	7.94
		2437	1.401	1.615	86.75	0.62	5.13
		2462	1.401	1.606	87.24	0.59	6.28
802.11n (HT20)	SISO	2412	1.313	2.652	49.51	3.05	43.64
		2437	1.313	1.680	78.15	1.07	14.40
		2462	1.314	2.688	48.88	3.11	45.52
802.11n (HT40)	SISO	2422	0.653	8.886	7.35	11.34	80.90
		2437	0.653	7.797	8.38	10.77	81.00
		2452	0.653	8.130	8.03	10.95	80.23

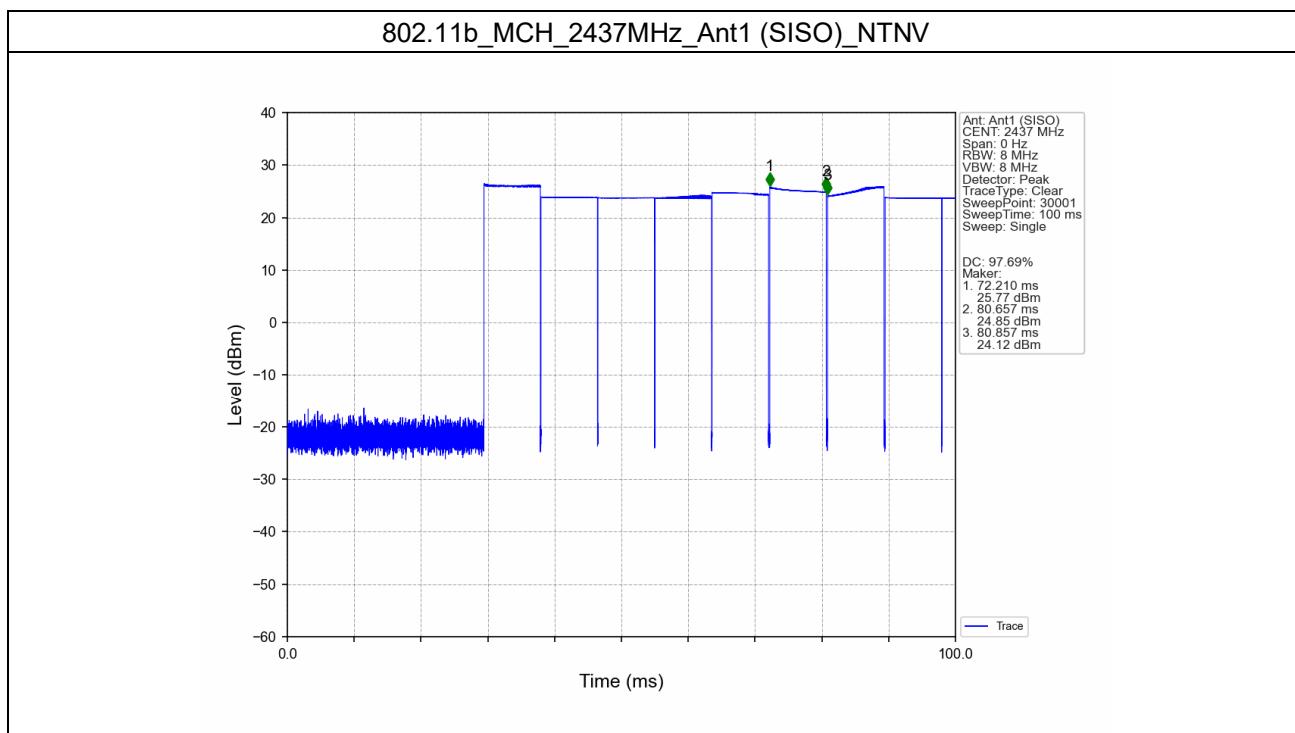
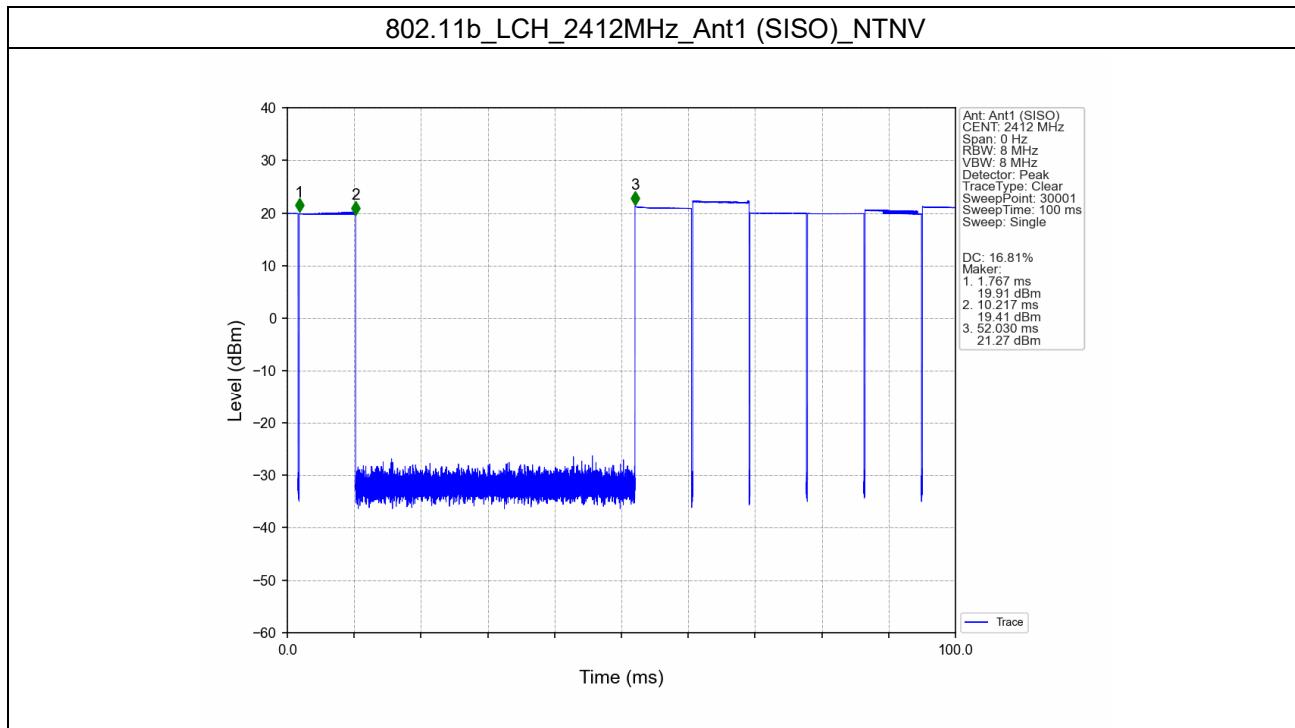
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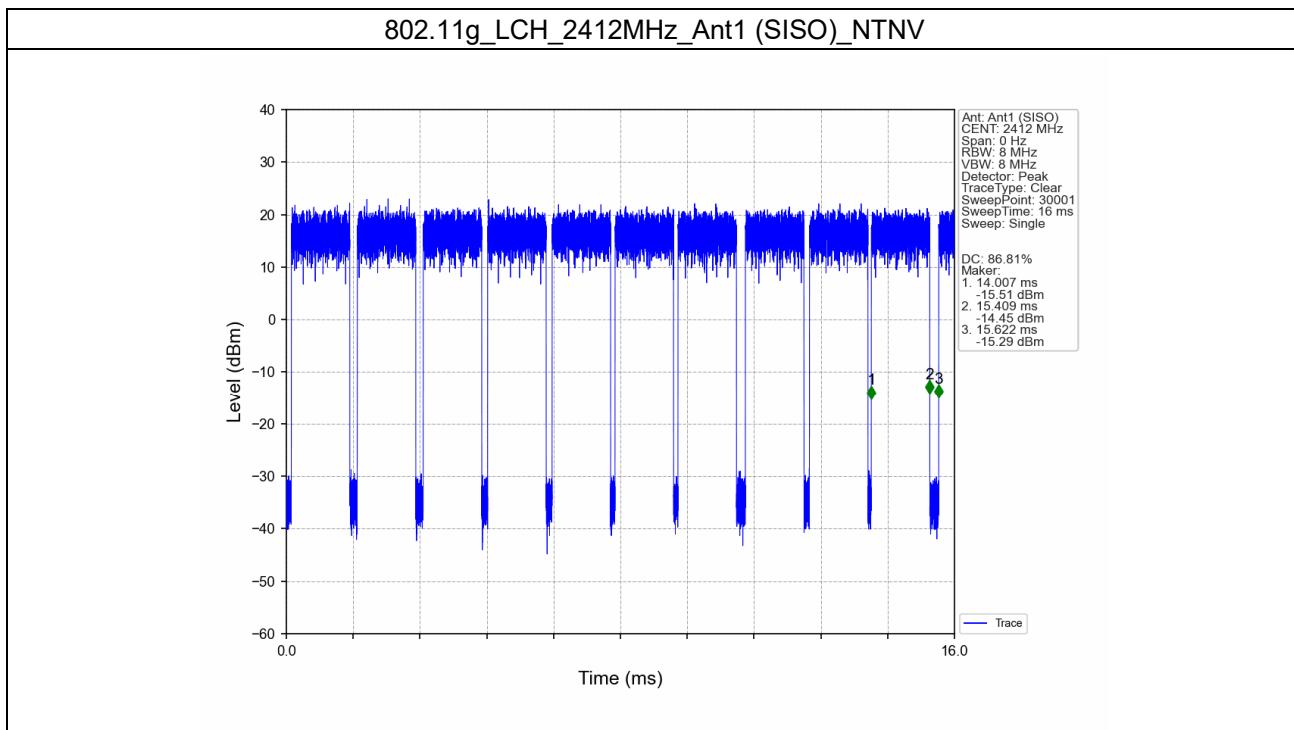
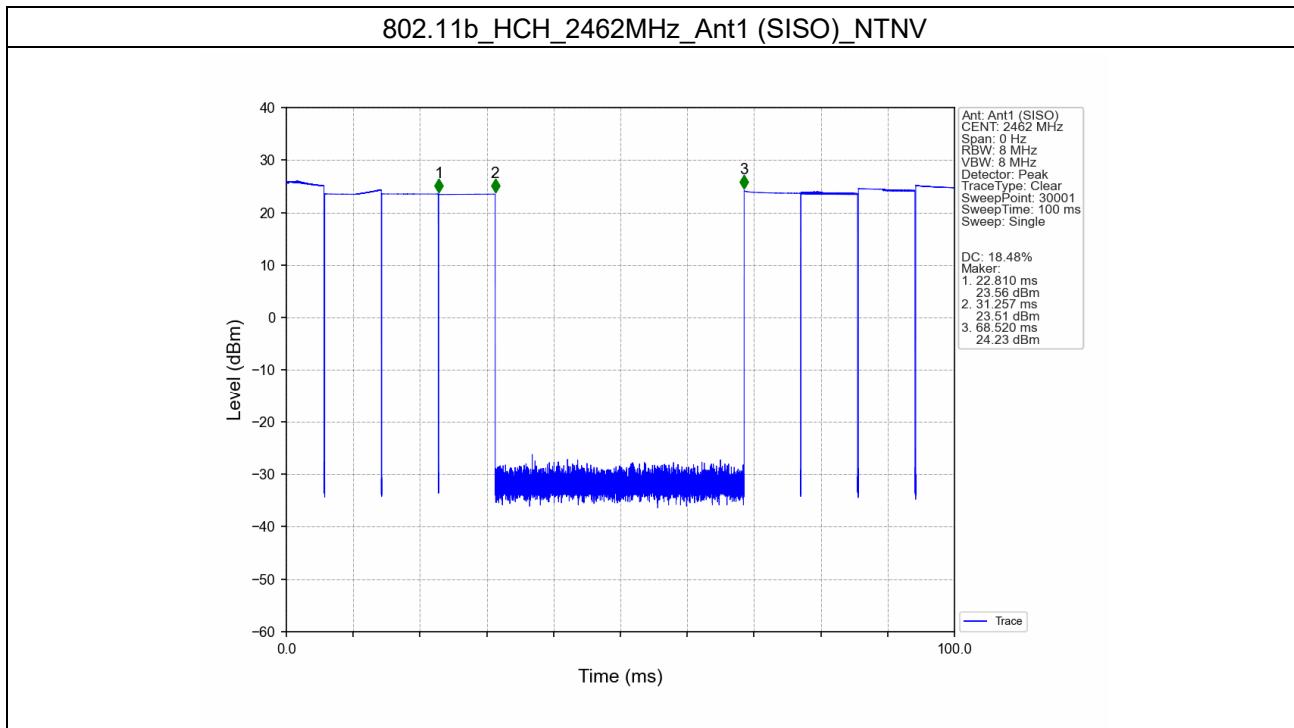
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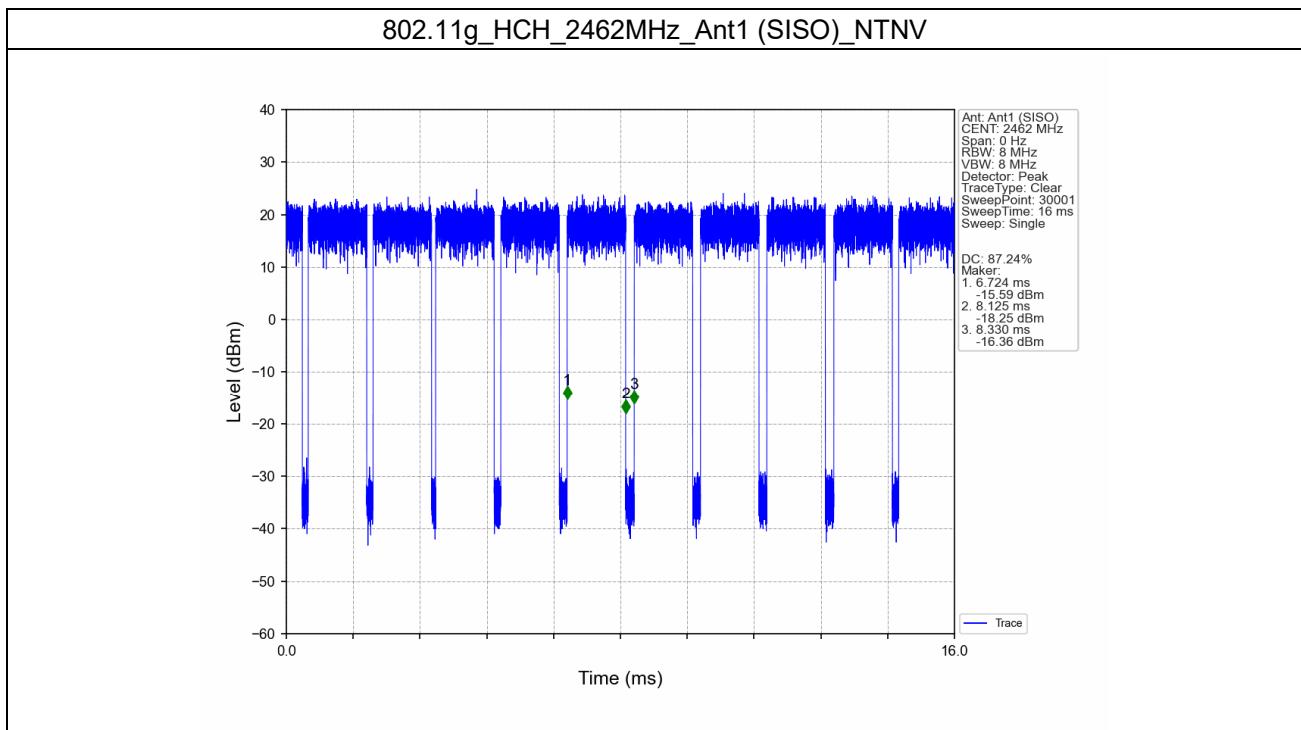
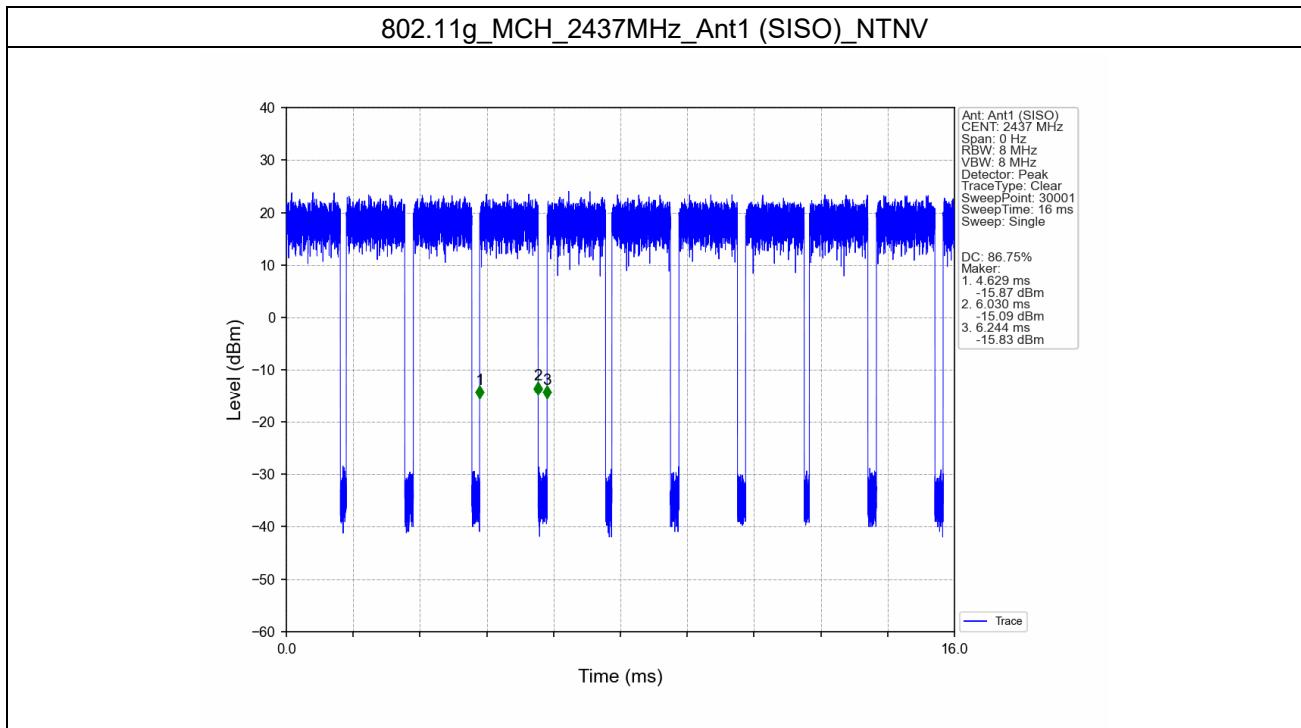
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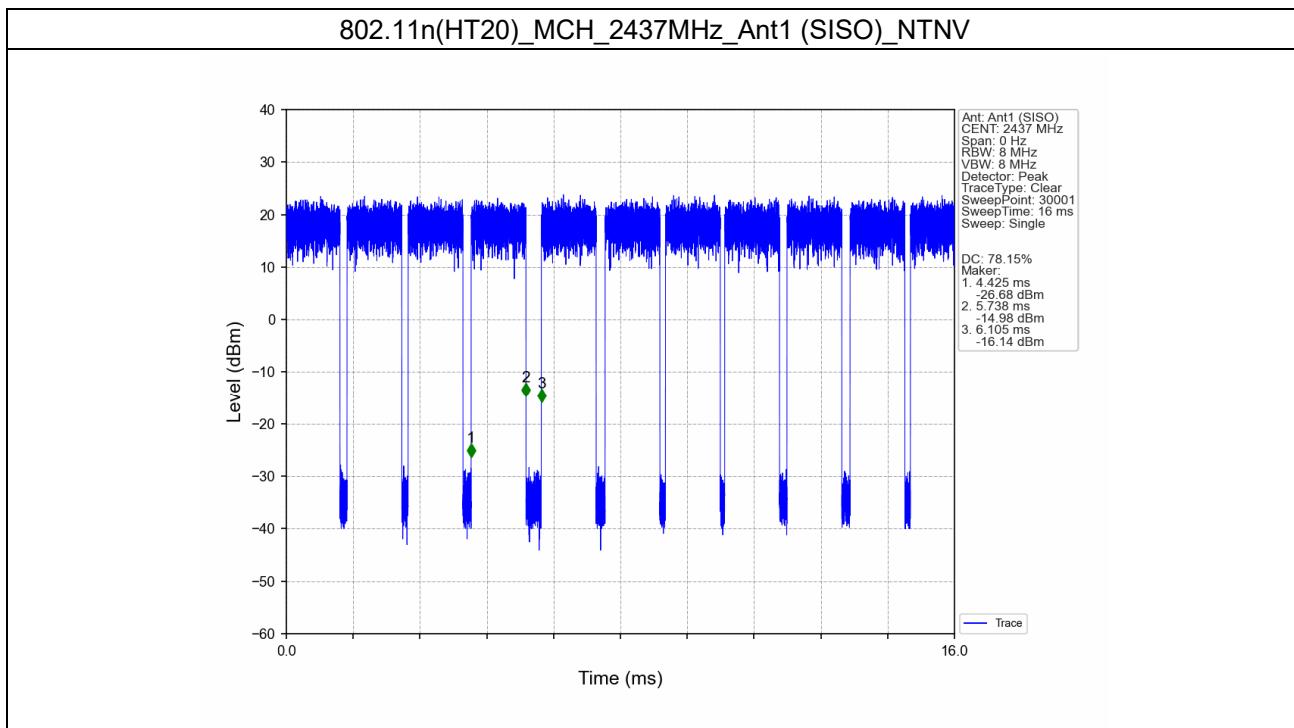
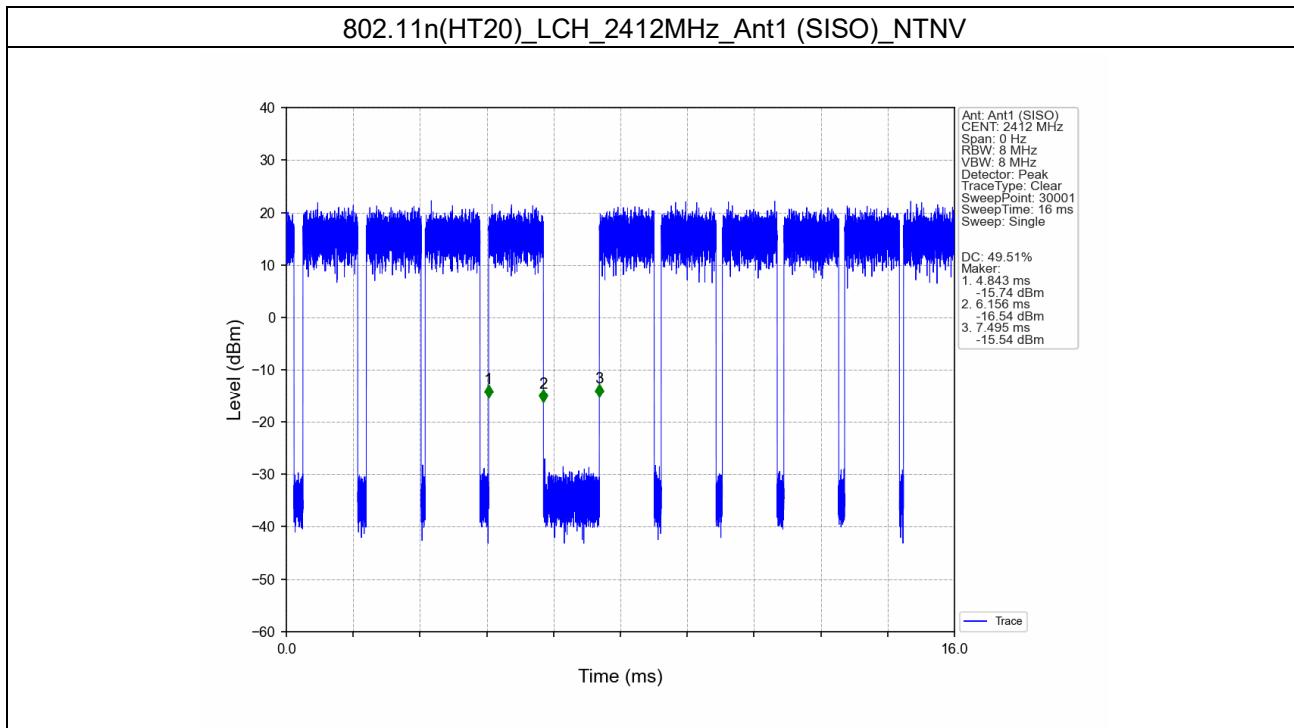
1.2 Test Graph**1.2.1 Ant1**

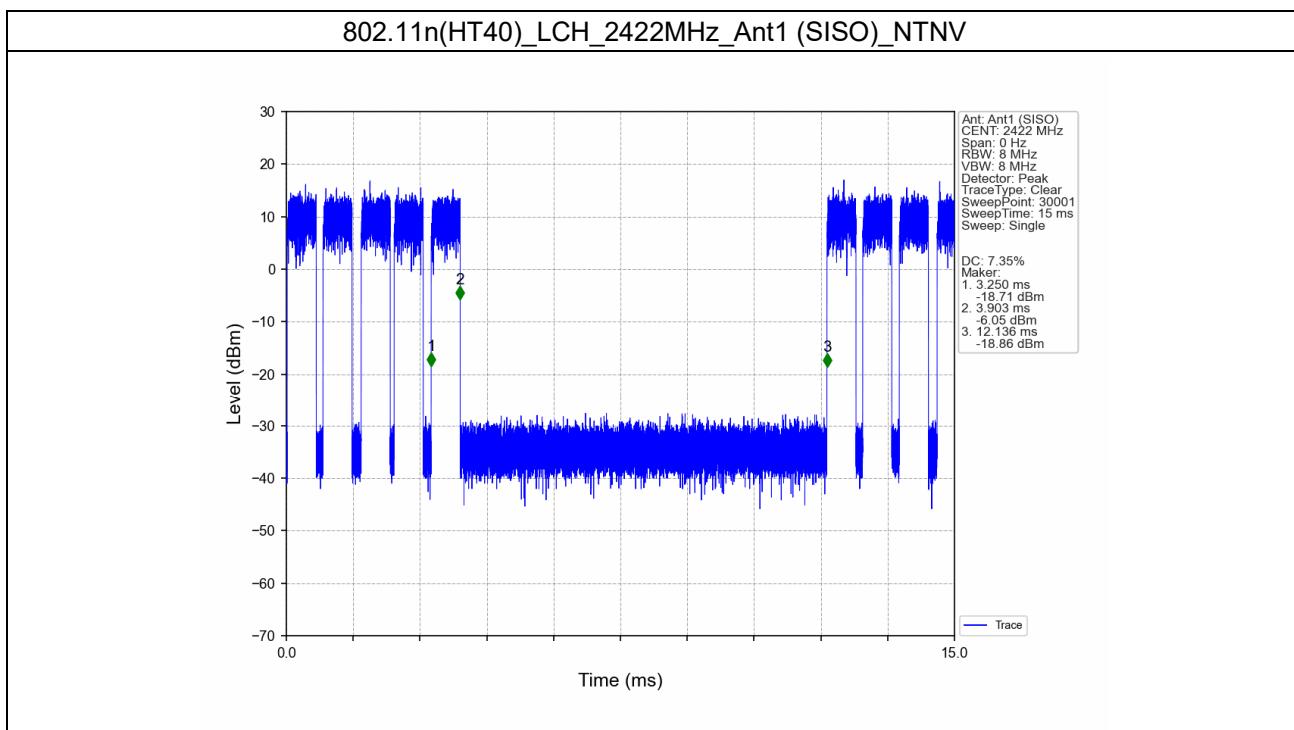
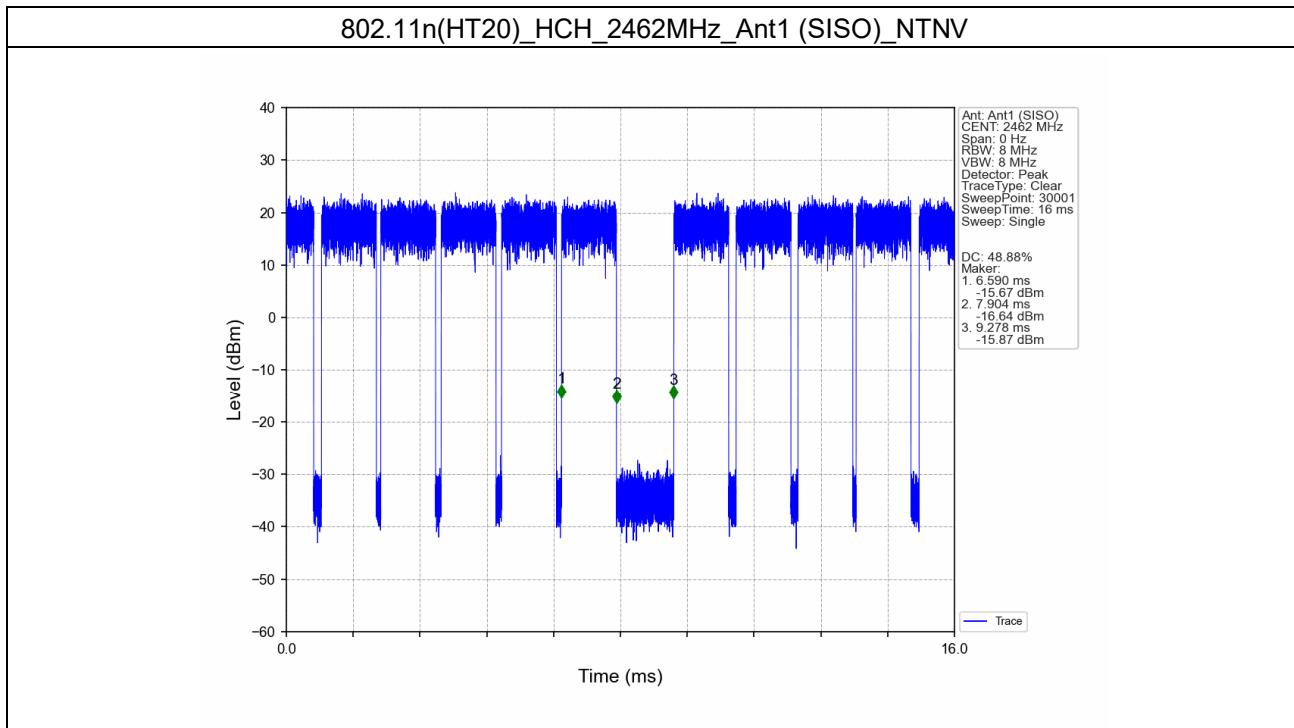
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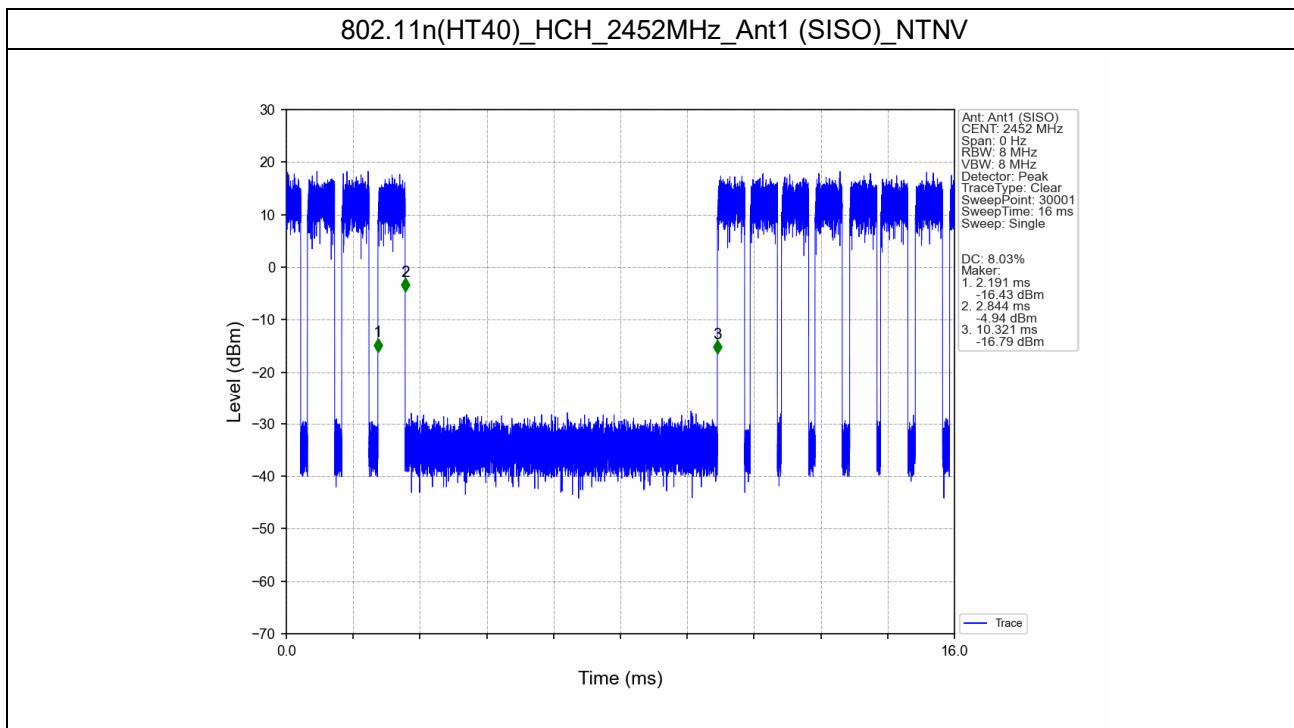
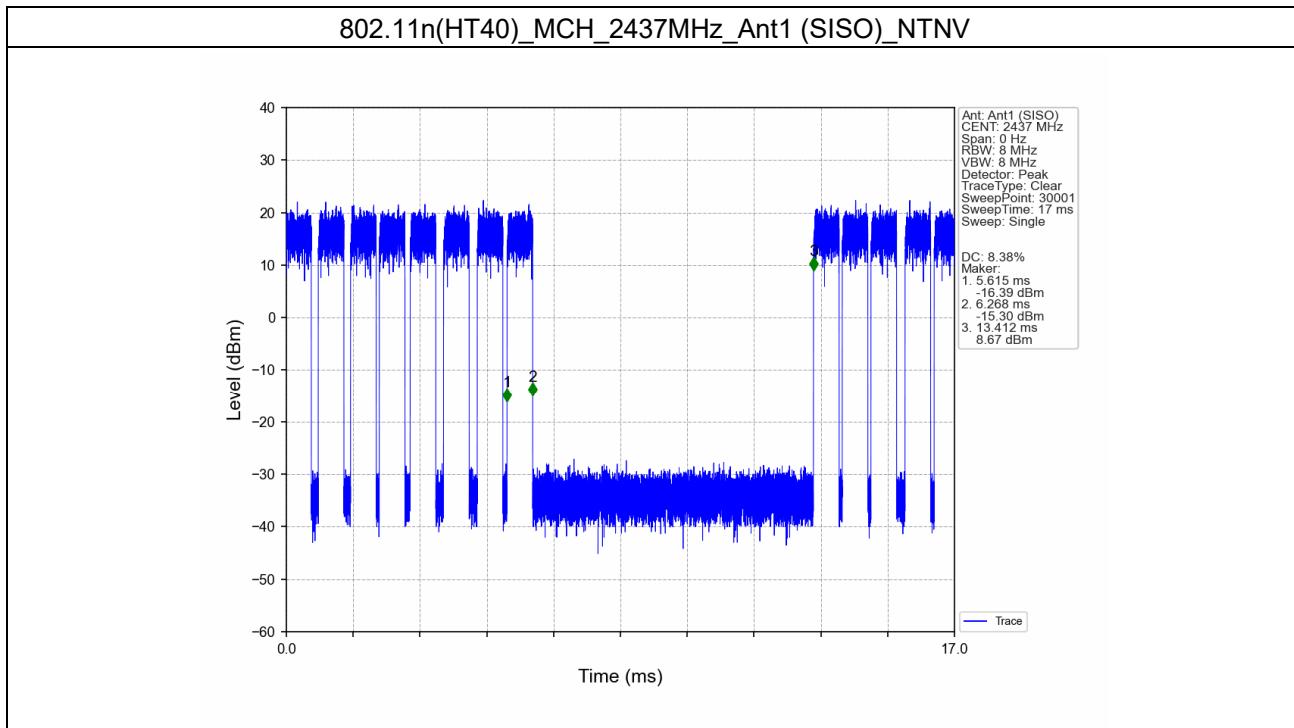






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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	14.920	/	Pass
		2437	1	14.983	/	Pass
		2462	1	14.949	/	Pass
802.11g	SISO	2412	1	17.532	/	Pass
		2437	1	17.464	/	Pass
		2462	1	17.378	/	Pass
802.11n (HT20)	SISO	2412	1	18.459	/	Pass
		2437	1	18.249	/	Pass
		2462	1	18.181	/	Pass
802.11n (HT40)	SISO	2422	1	36.506	/	Pass
		2437	1	36.206	/	Pass
		2452	1	36.268	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.061	>=0.5	Pass
		2437	1	10.093	>=0.5	Pass
		2462	1	10.066	>=0.5	Pass
802.11g	SISO	2412	1	15.102	>=0.5	Pass
		2437	1	15.090	>=0.5	Pass
		2462	1	15.116	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	15.160	>=0.5	Pass
		2437	1	15.110	>=0.5	Pass
		2462	1	15.079	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	31.413	>=0.5	Pass
		2437	1	33.890	>=0.5	Pass
		2452	1	35.098	>=0.5	Pass

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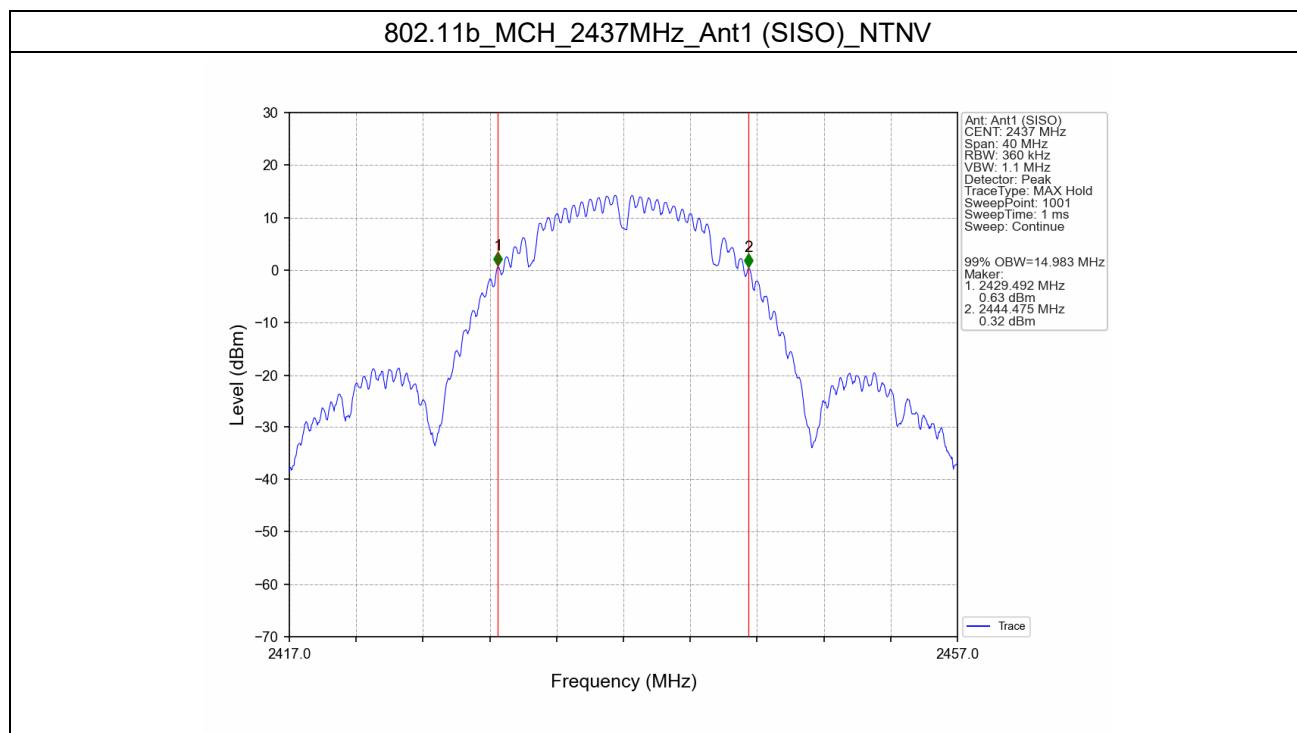
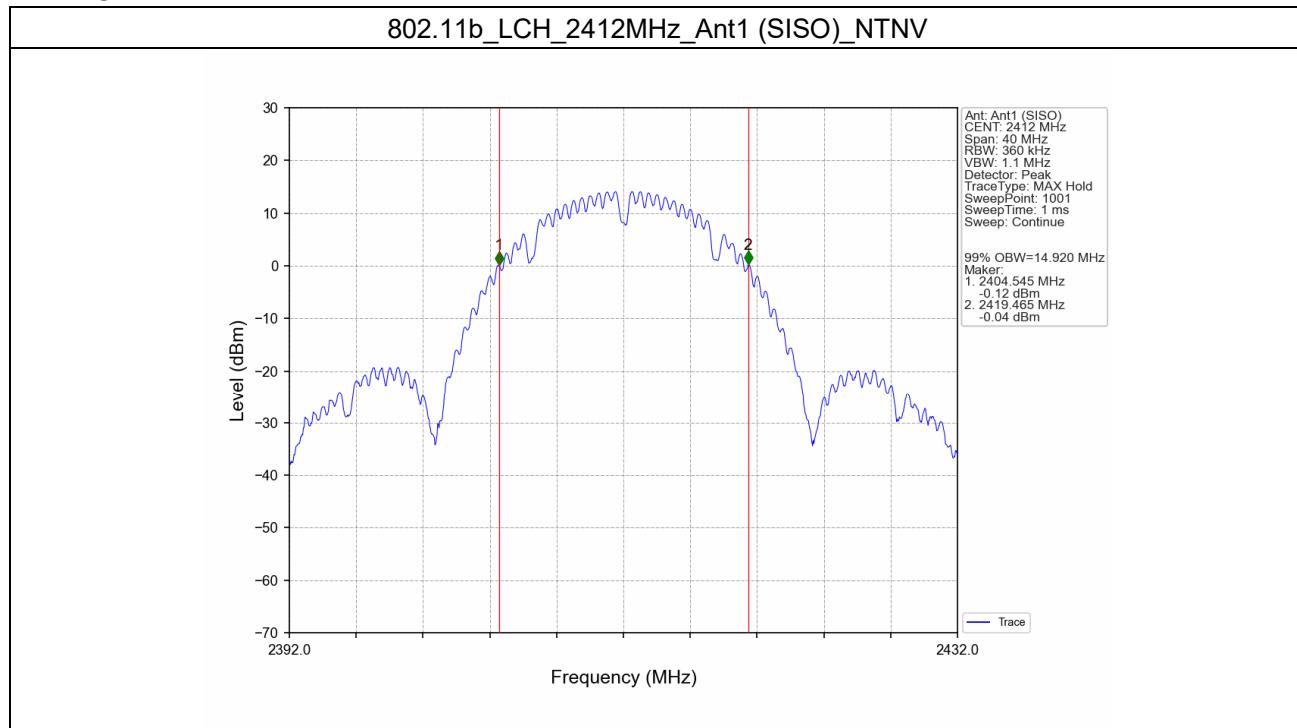
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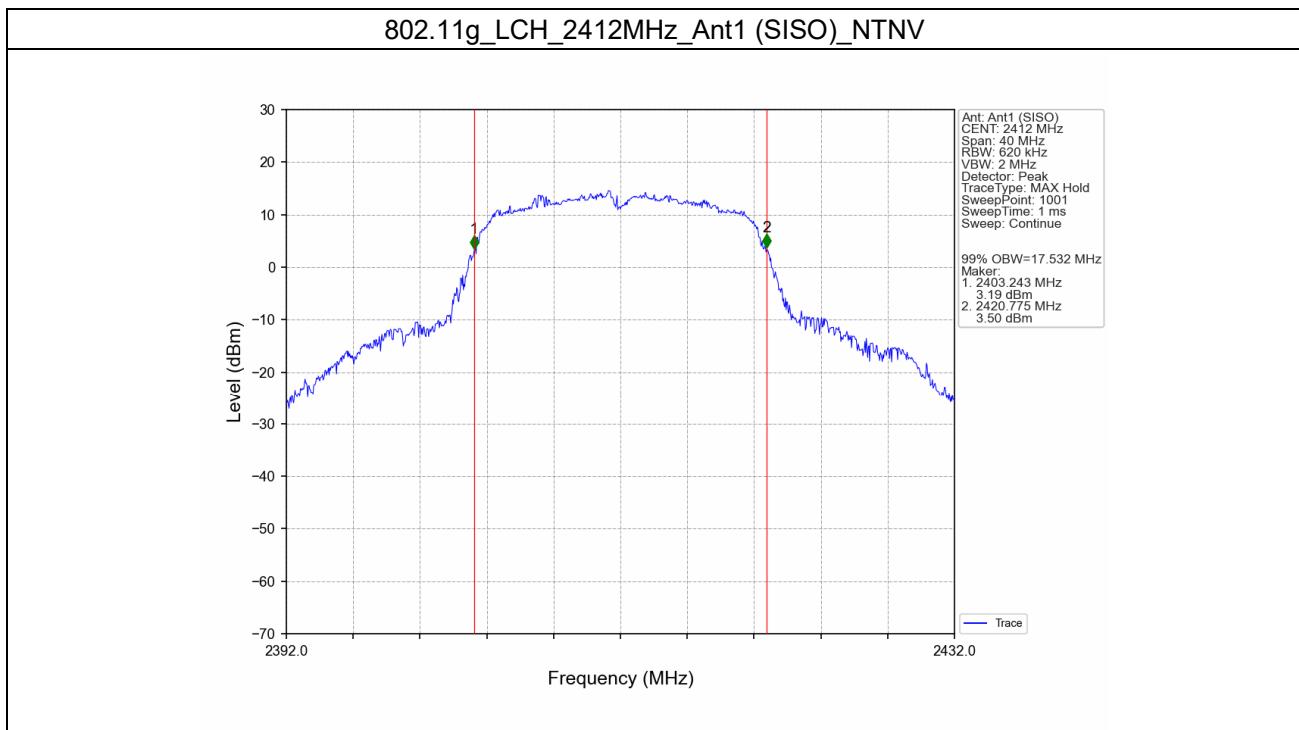
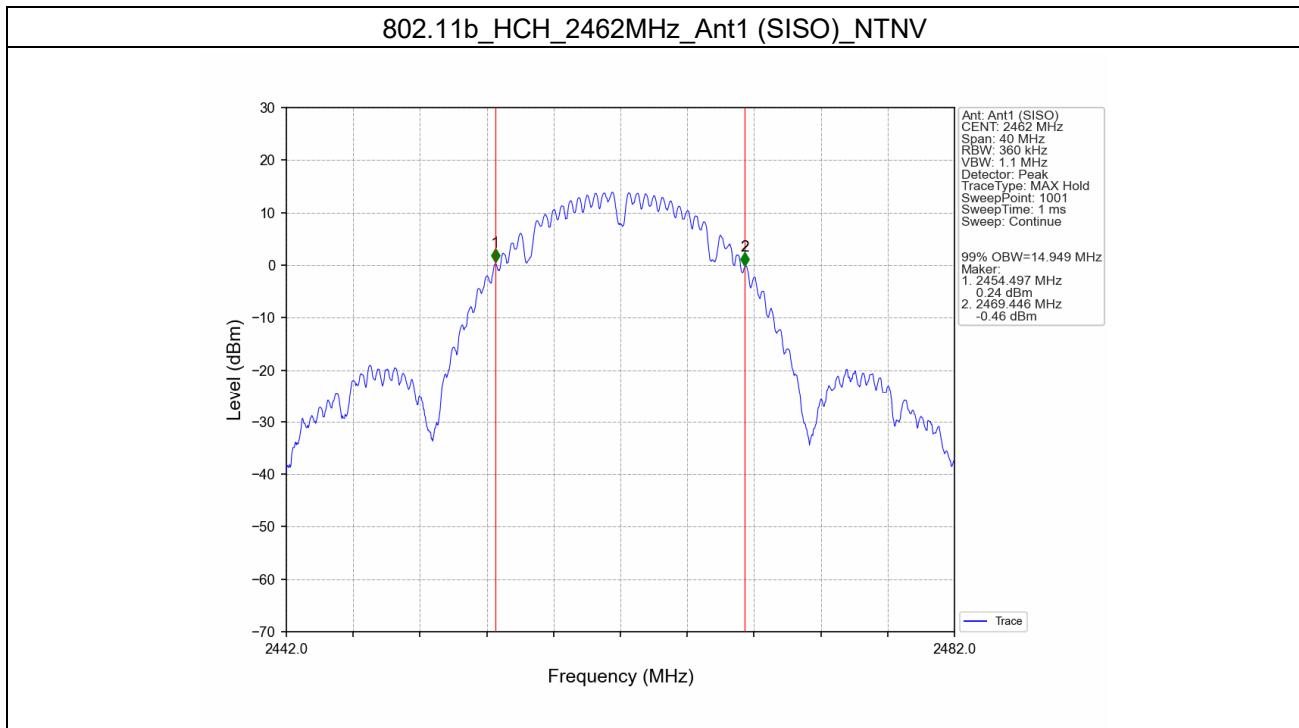
2.2 Test Graph

2.2.1 OBW



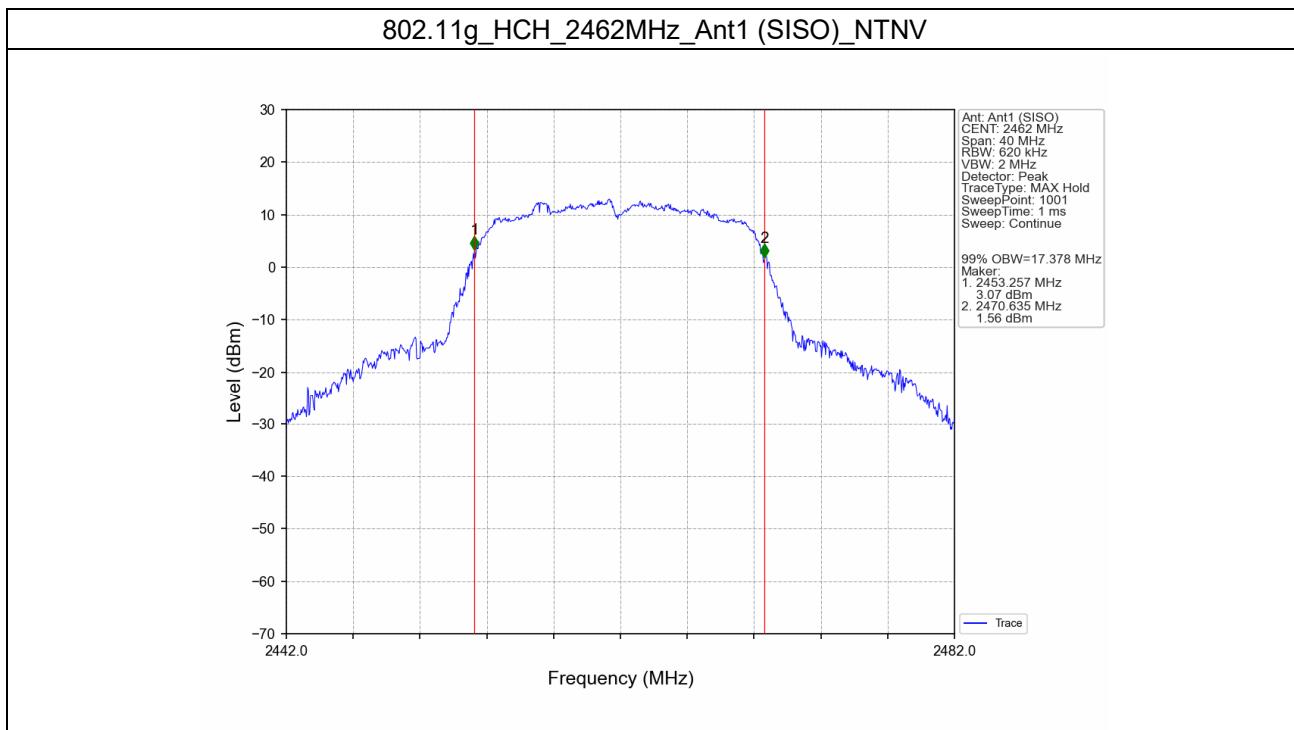
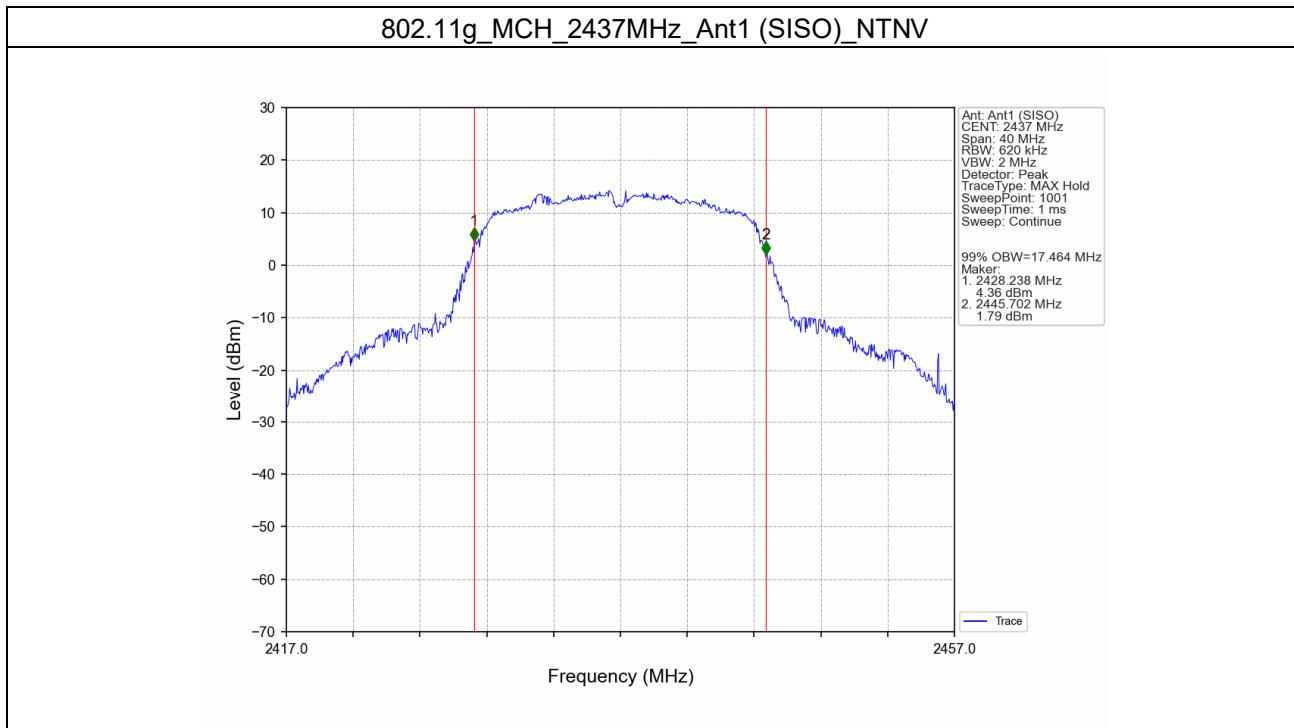
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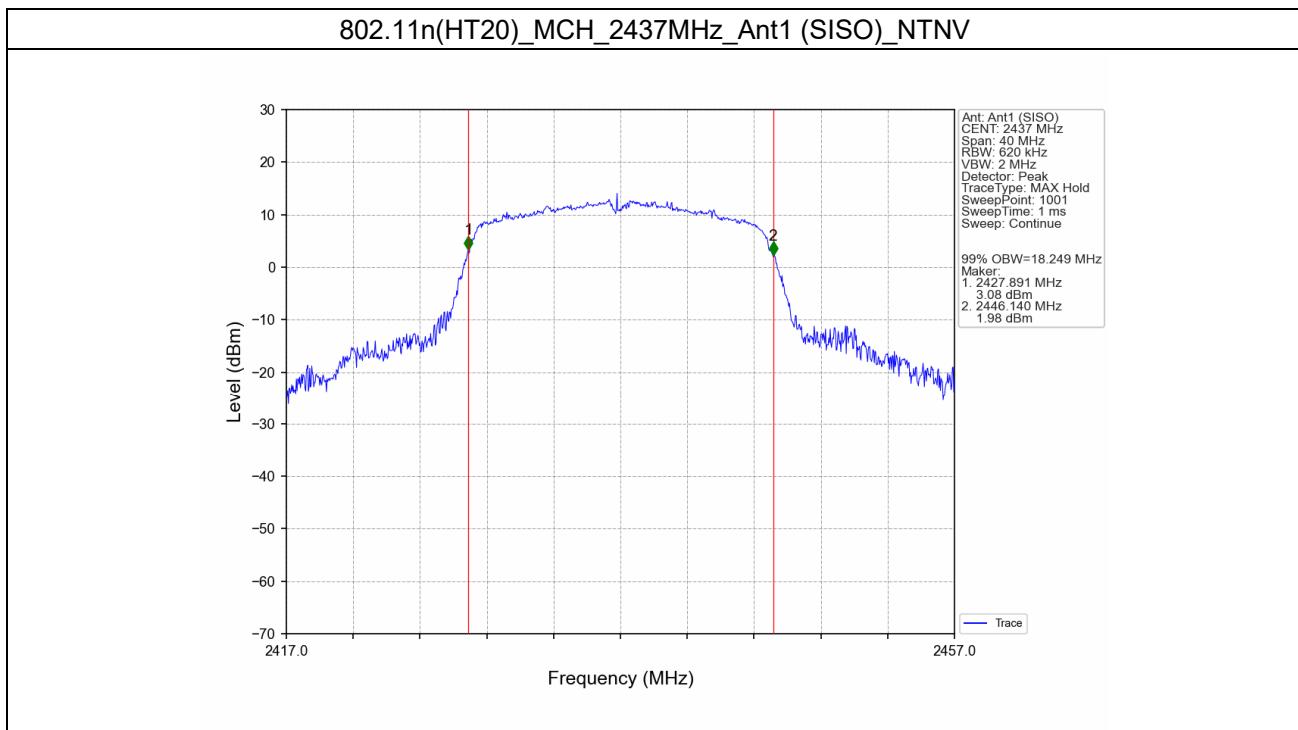
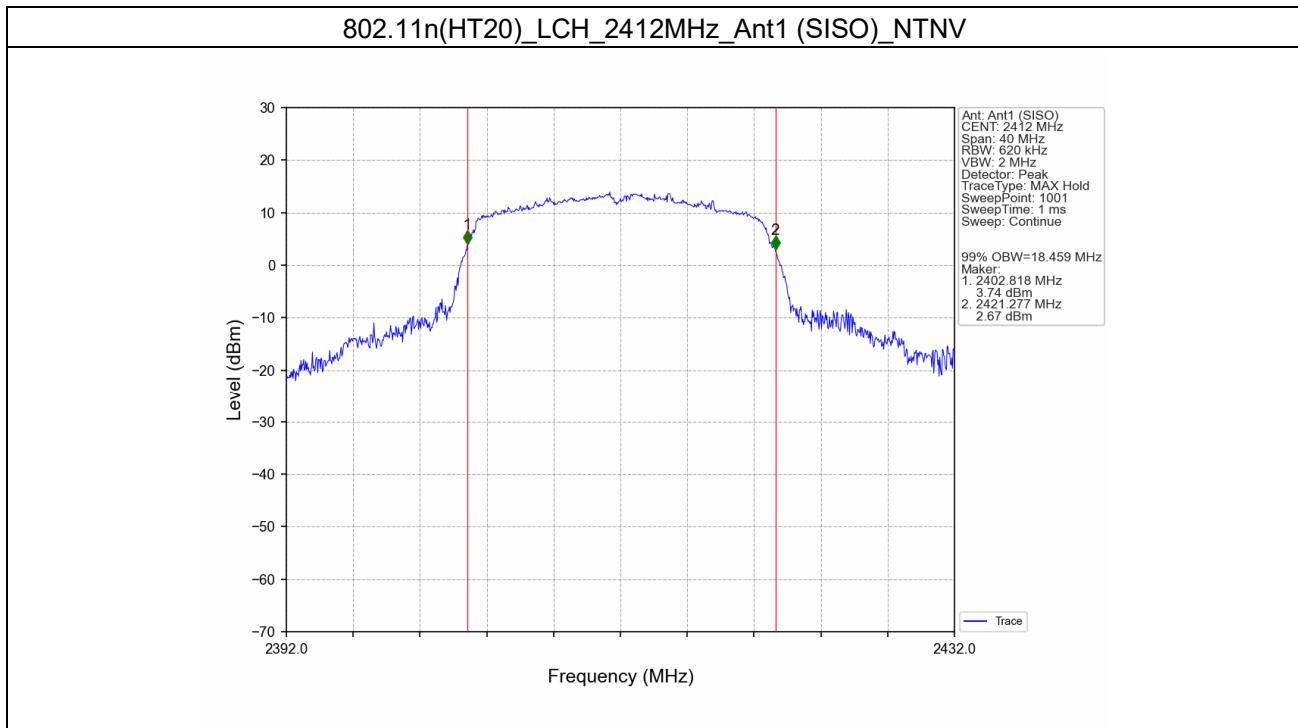
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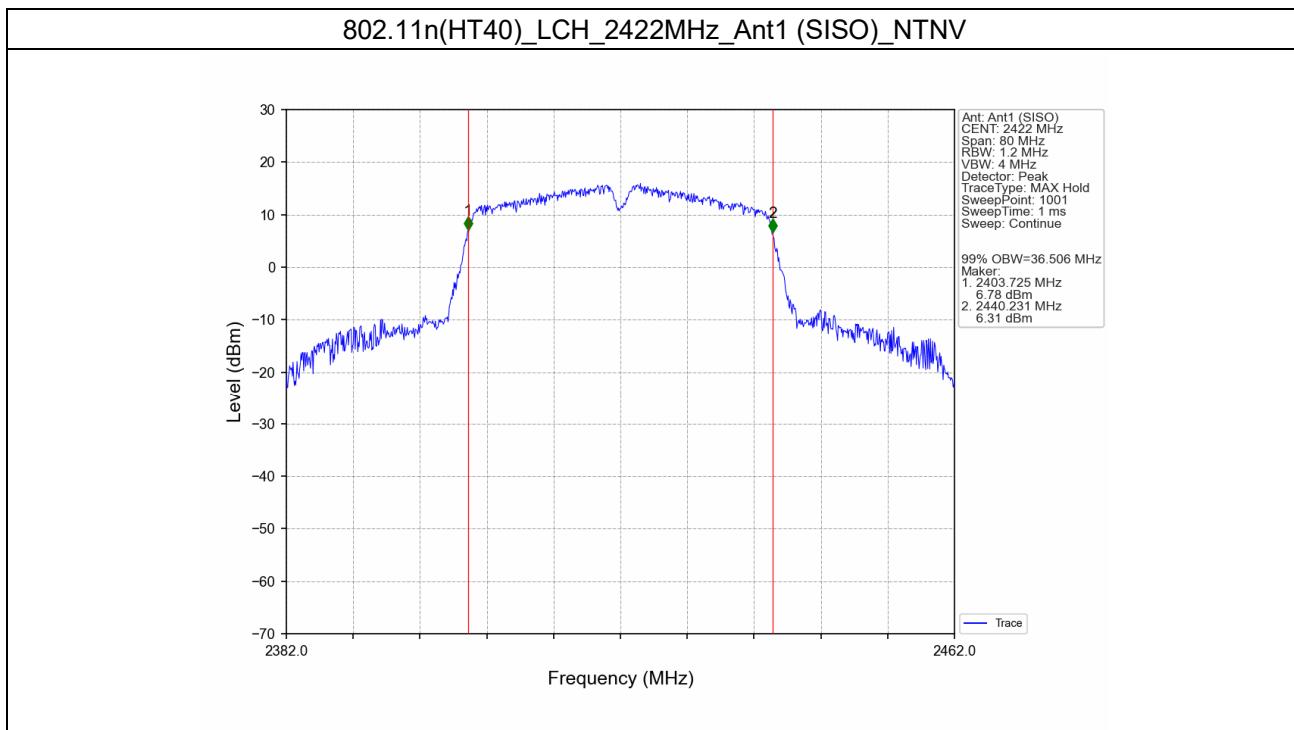
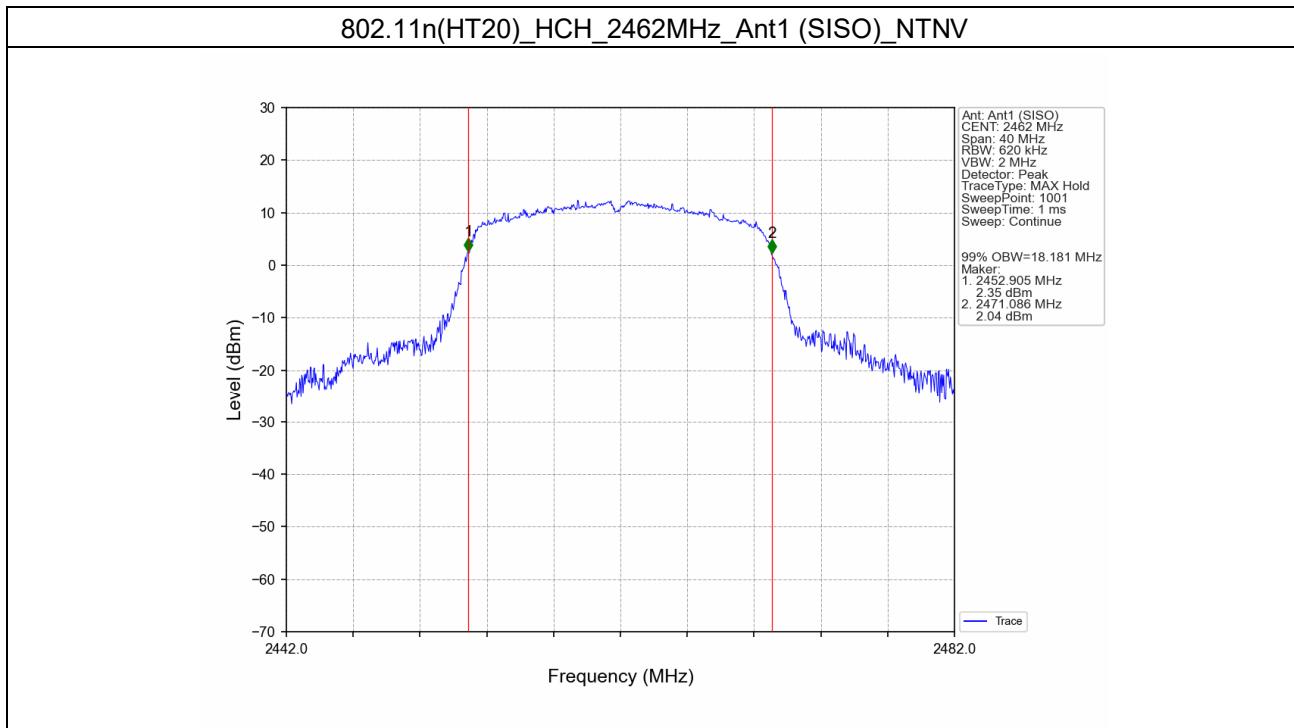


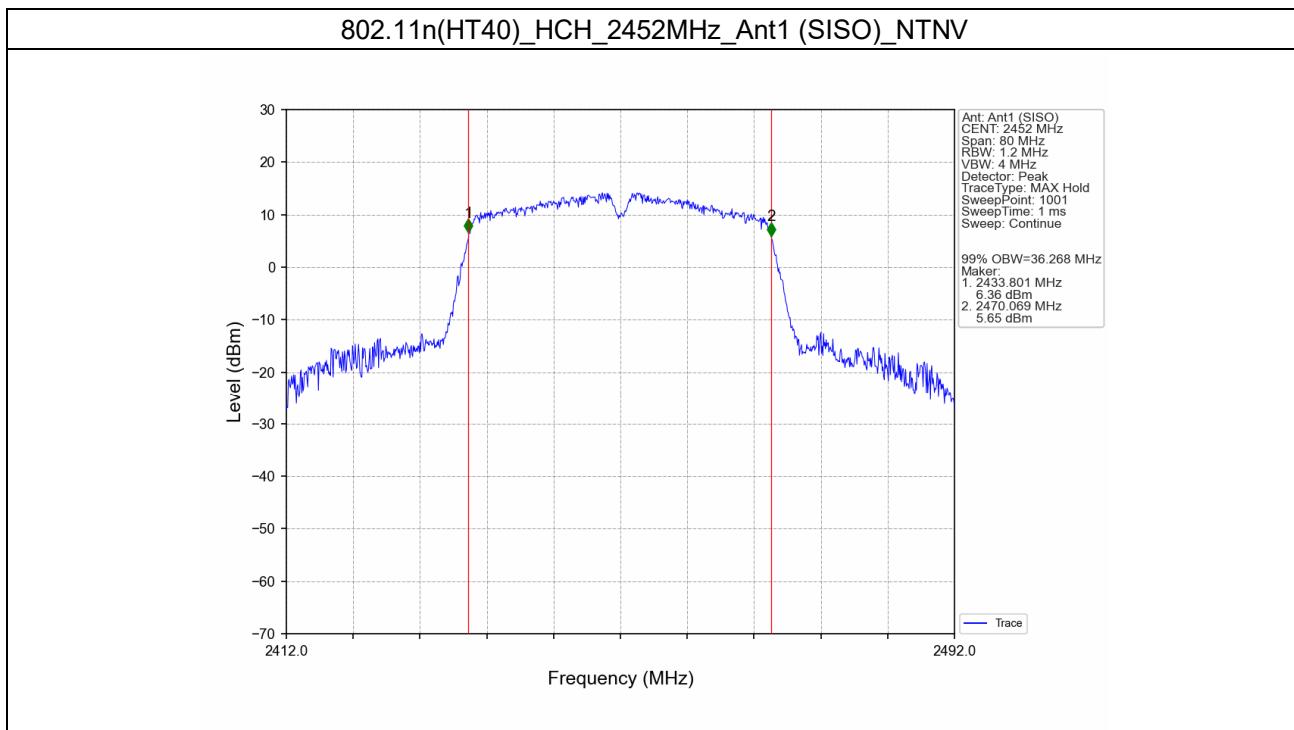
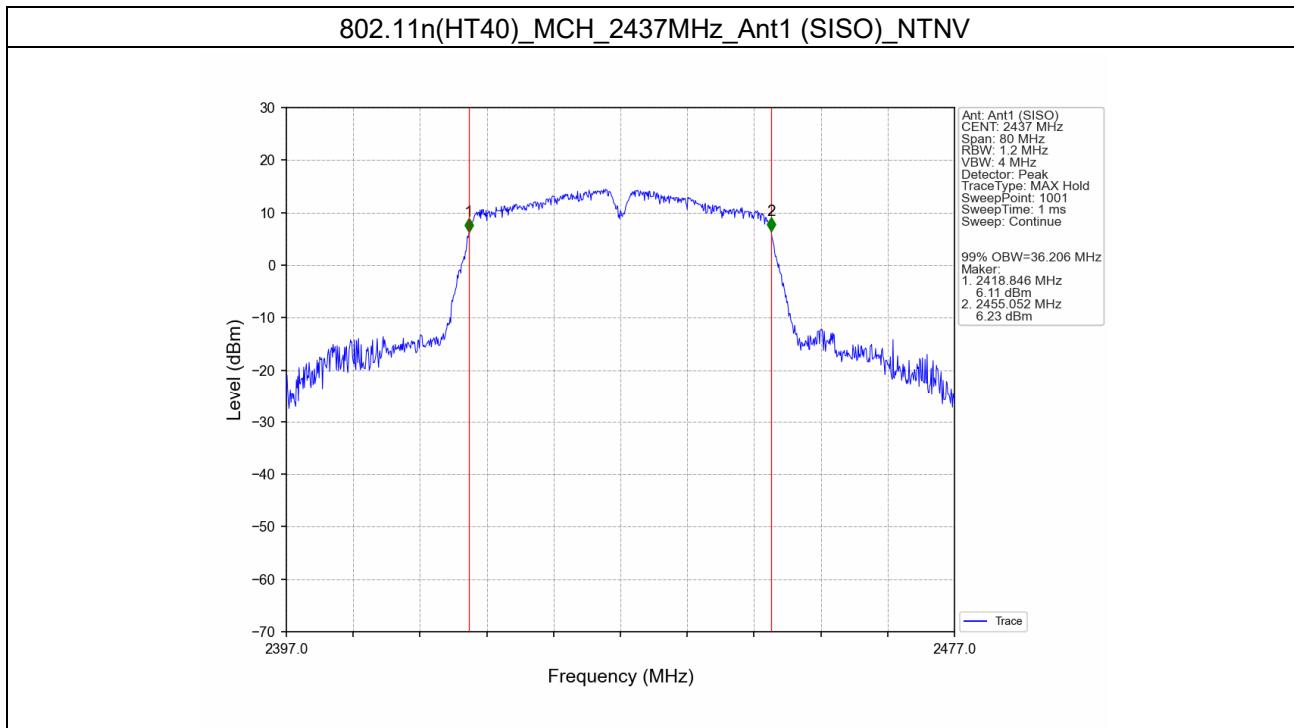
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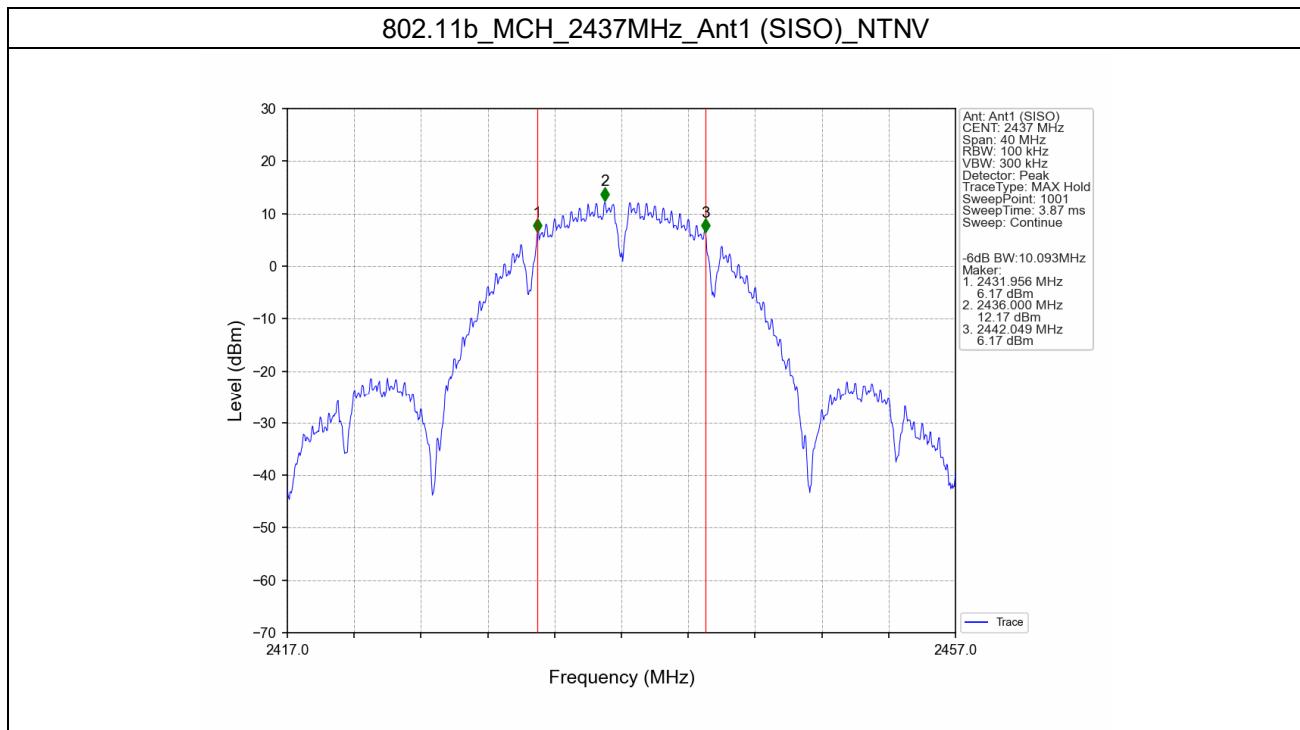
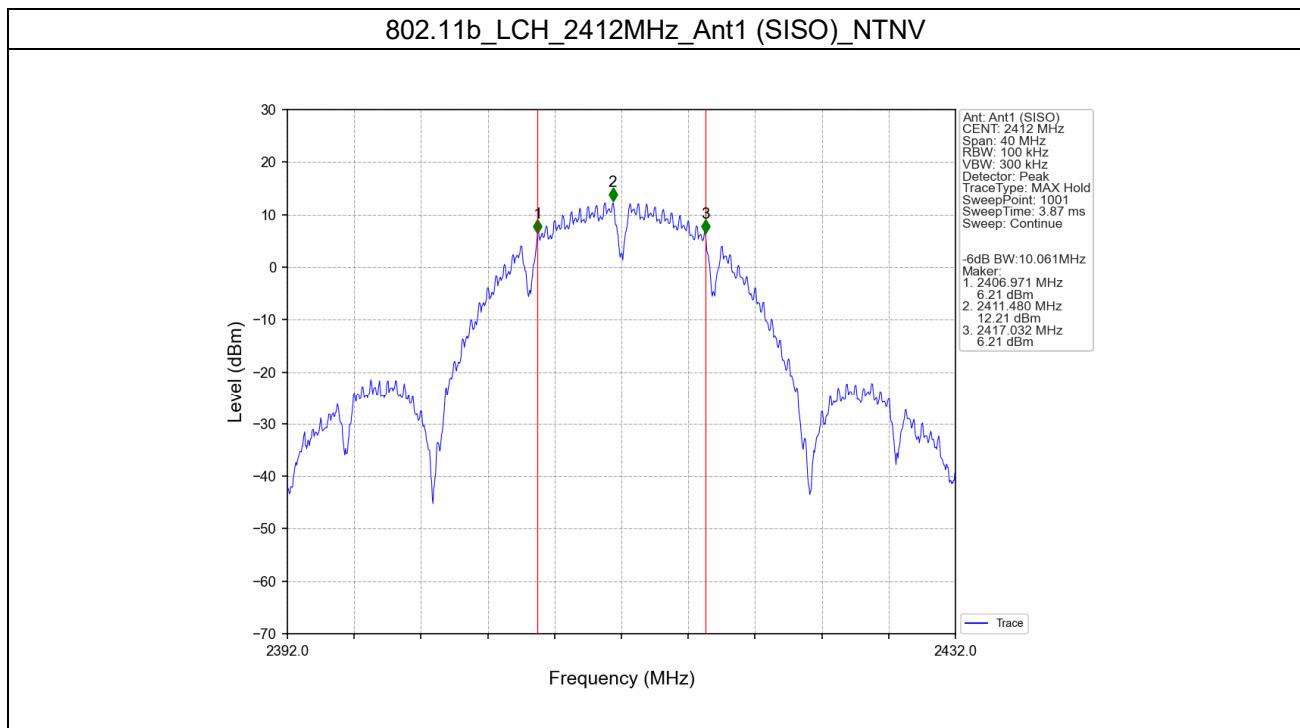




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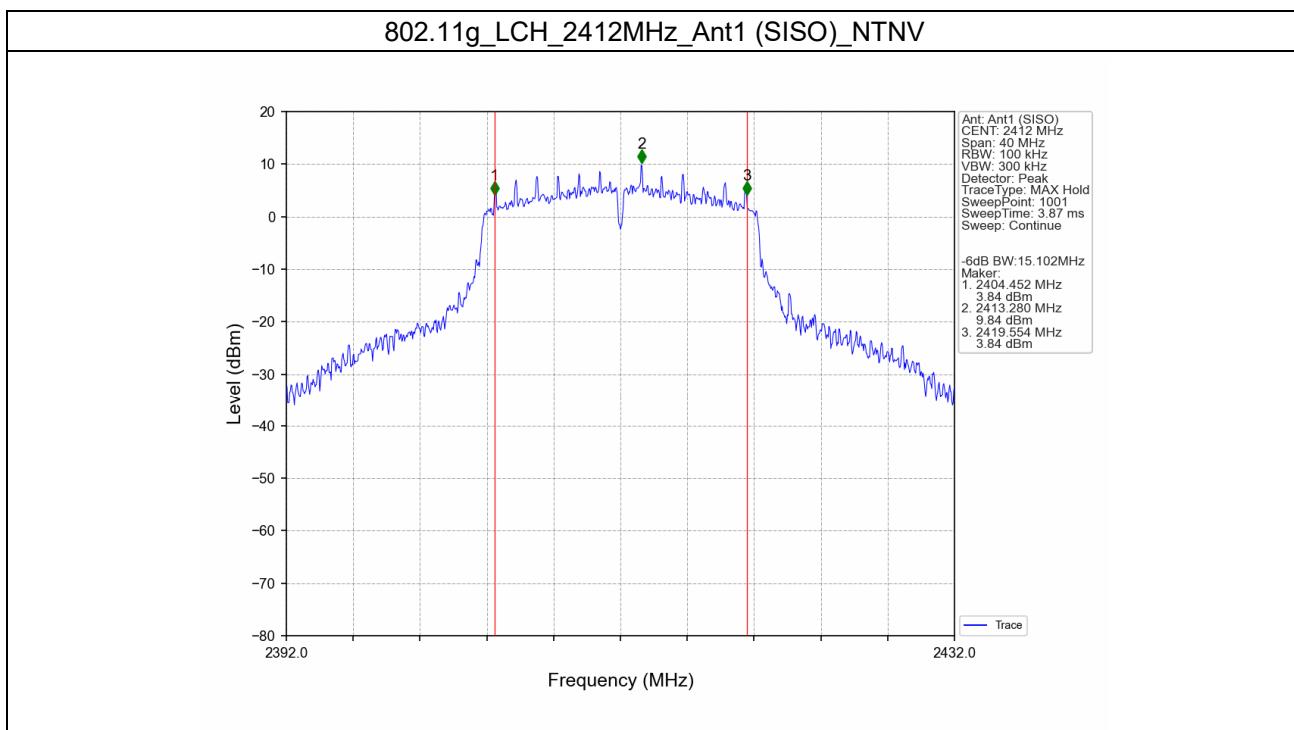
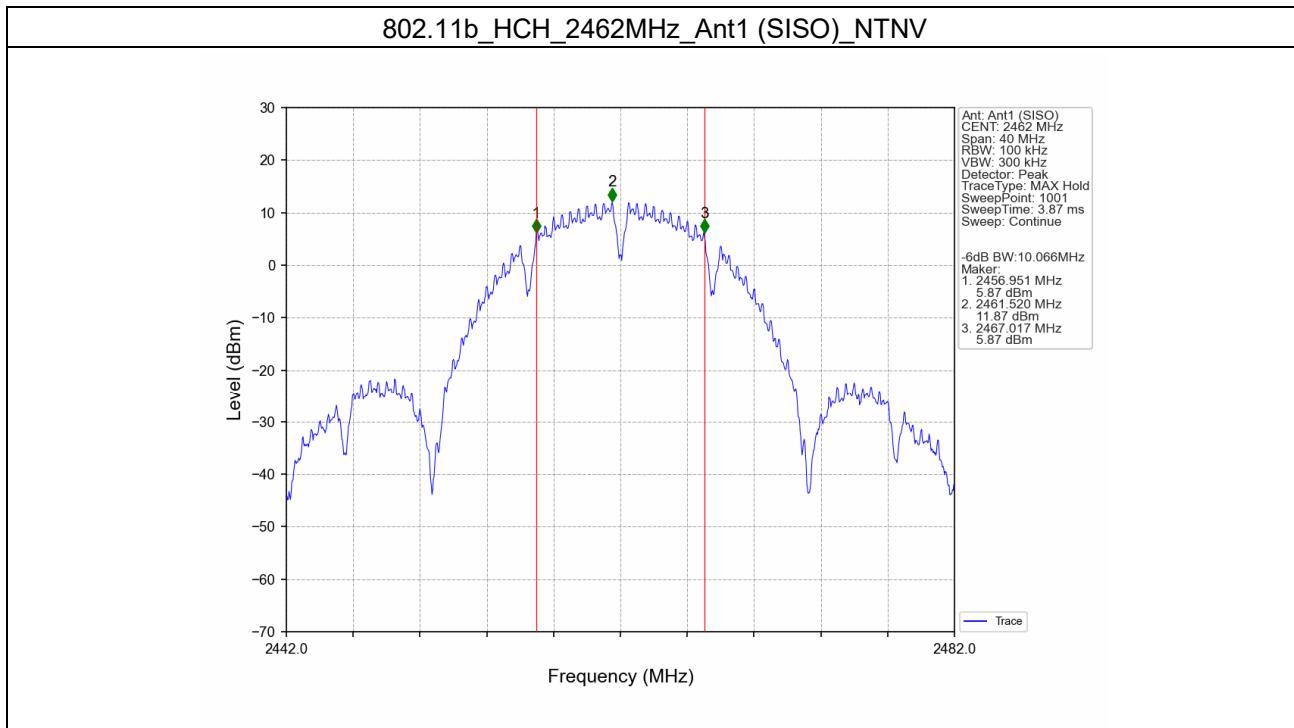
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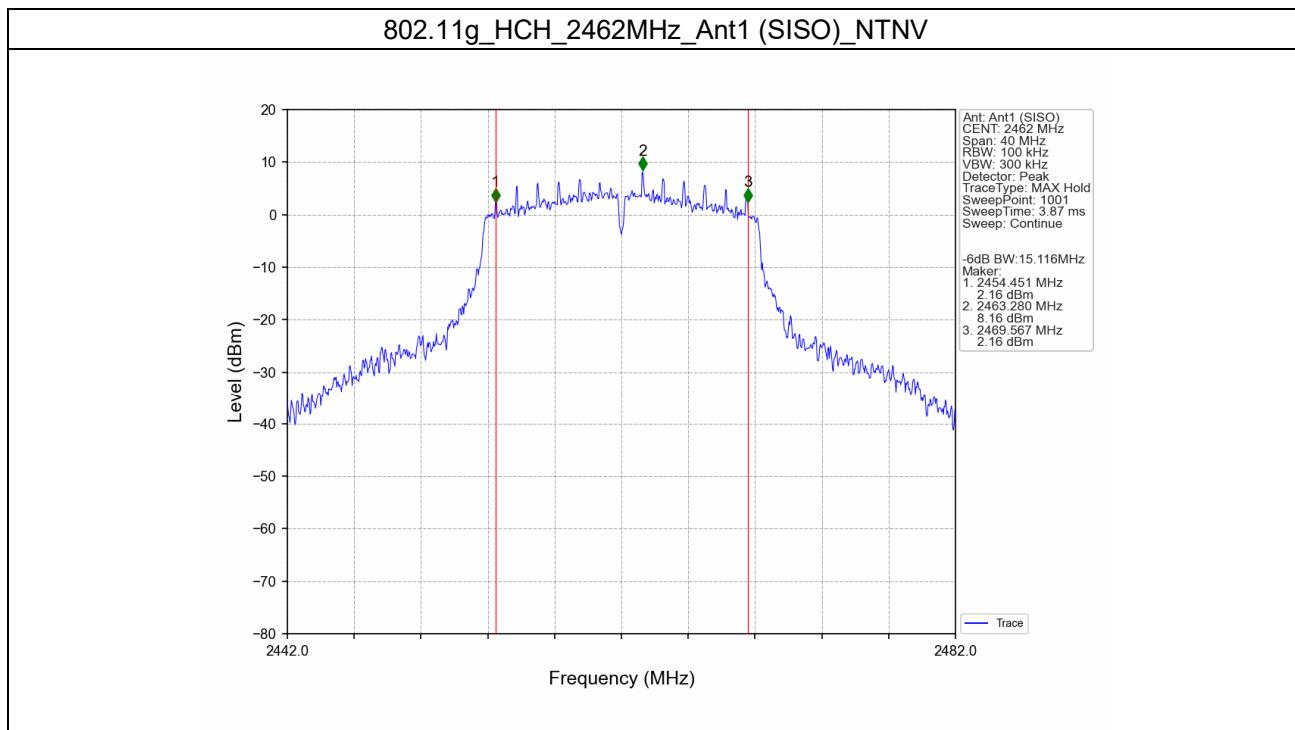
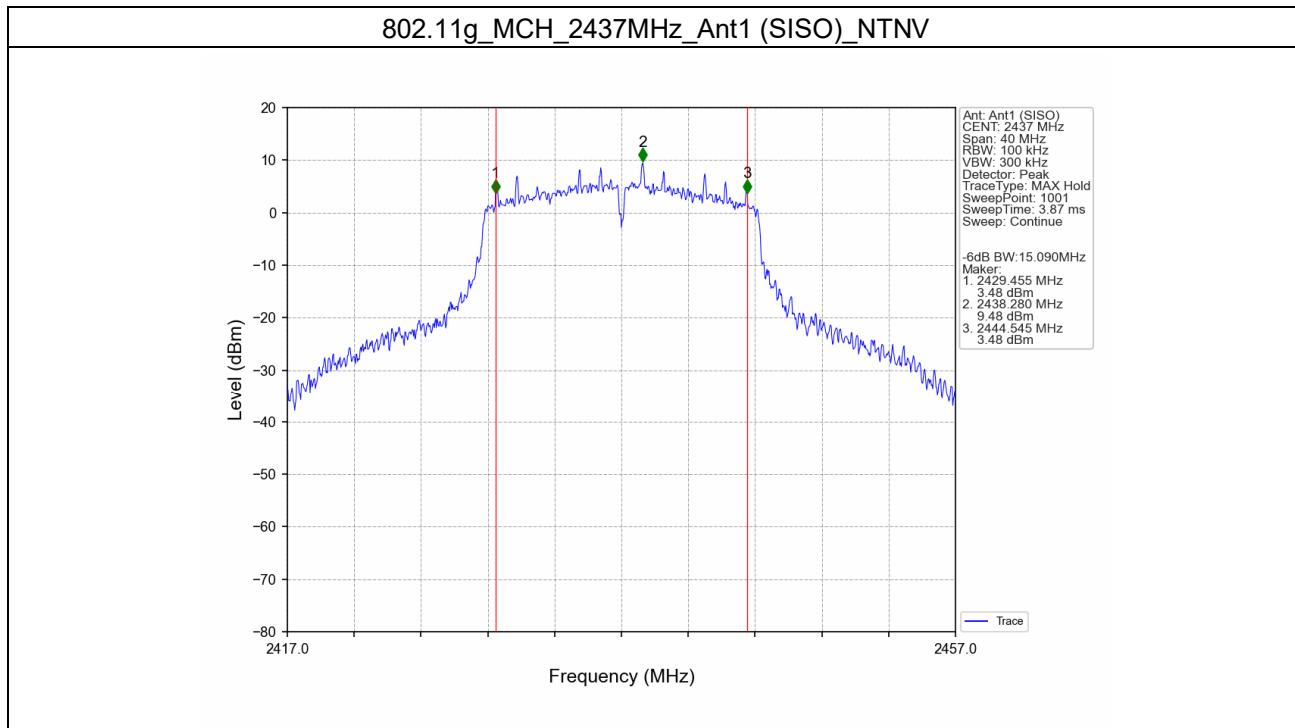
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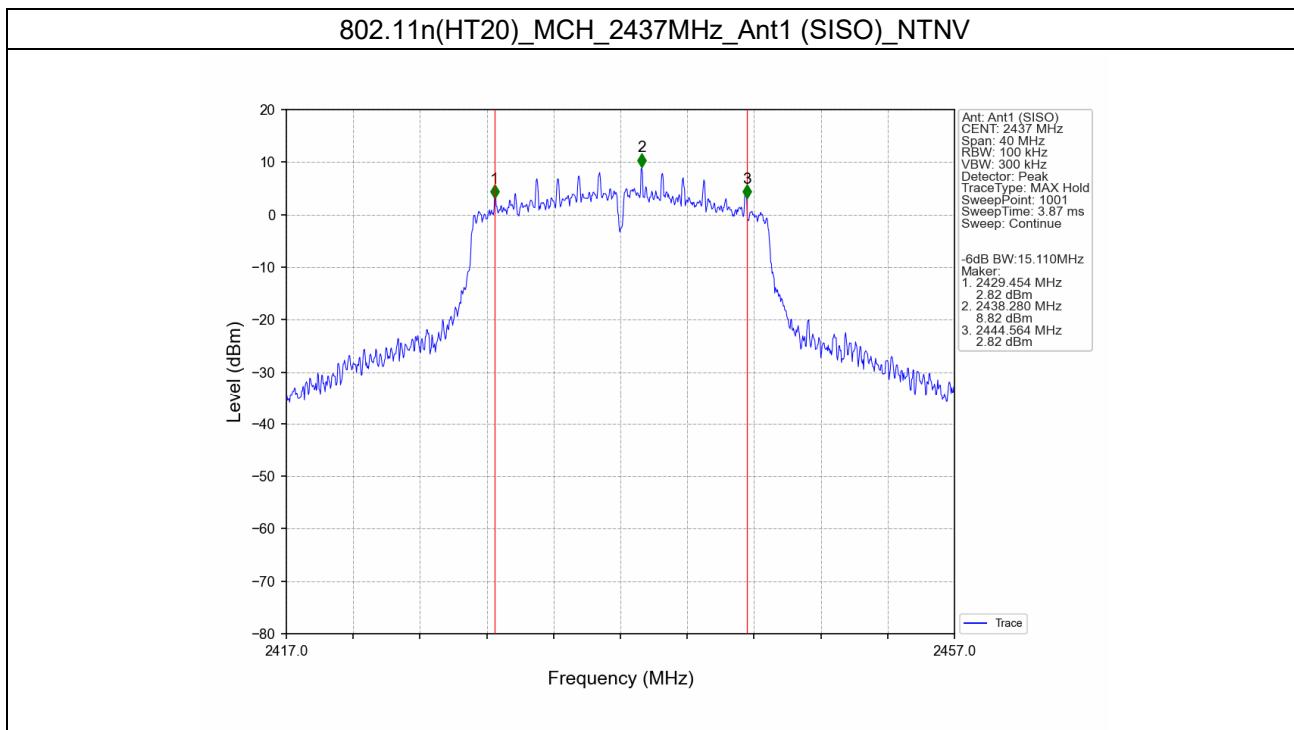
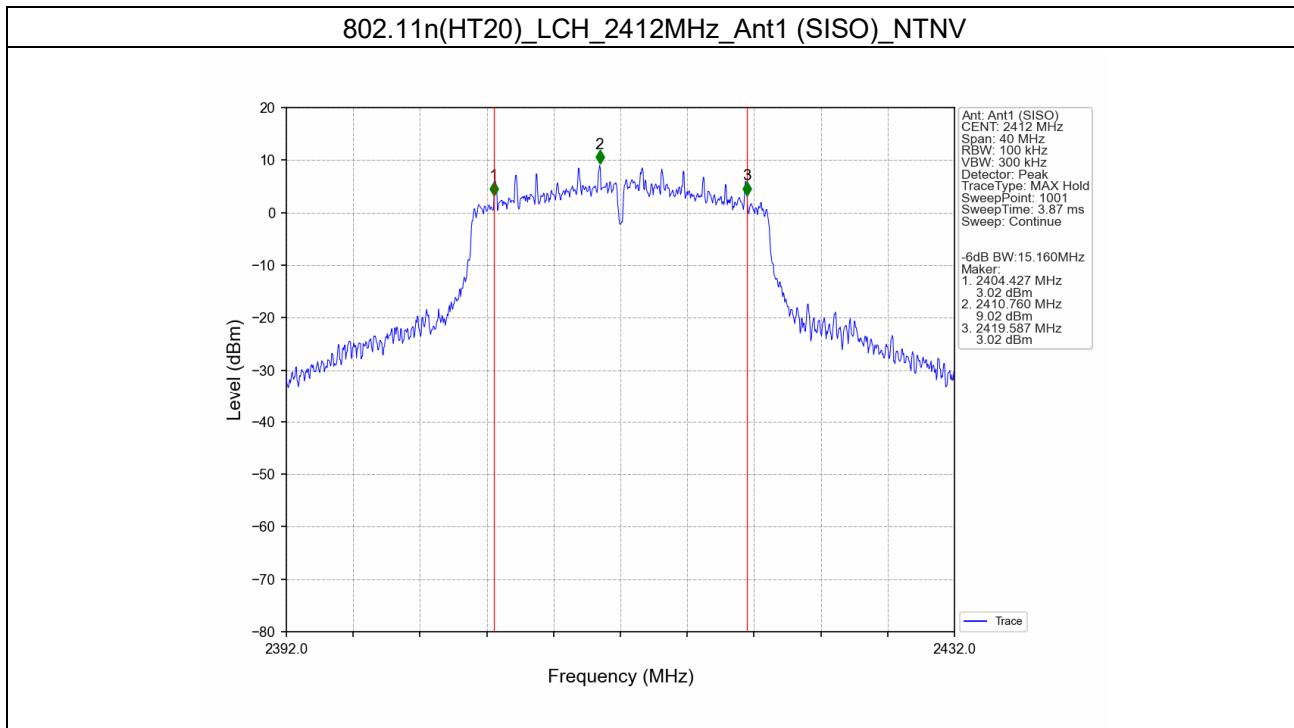


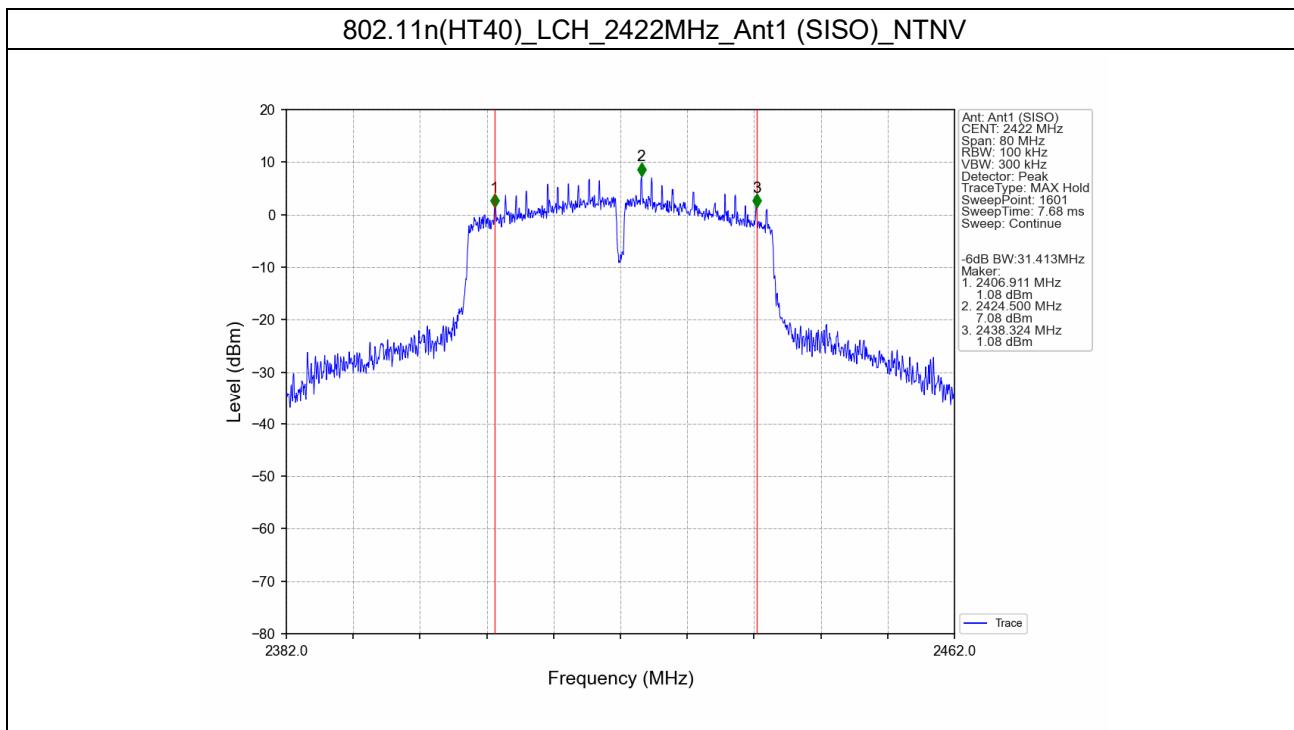
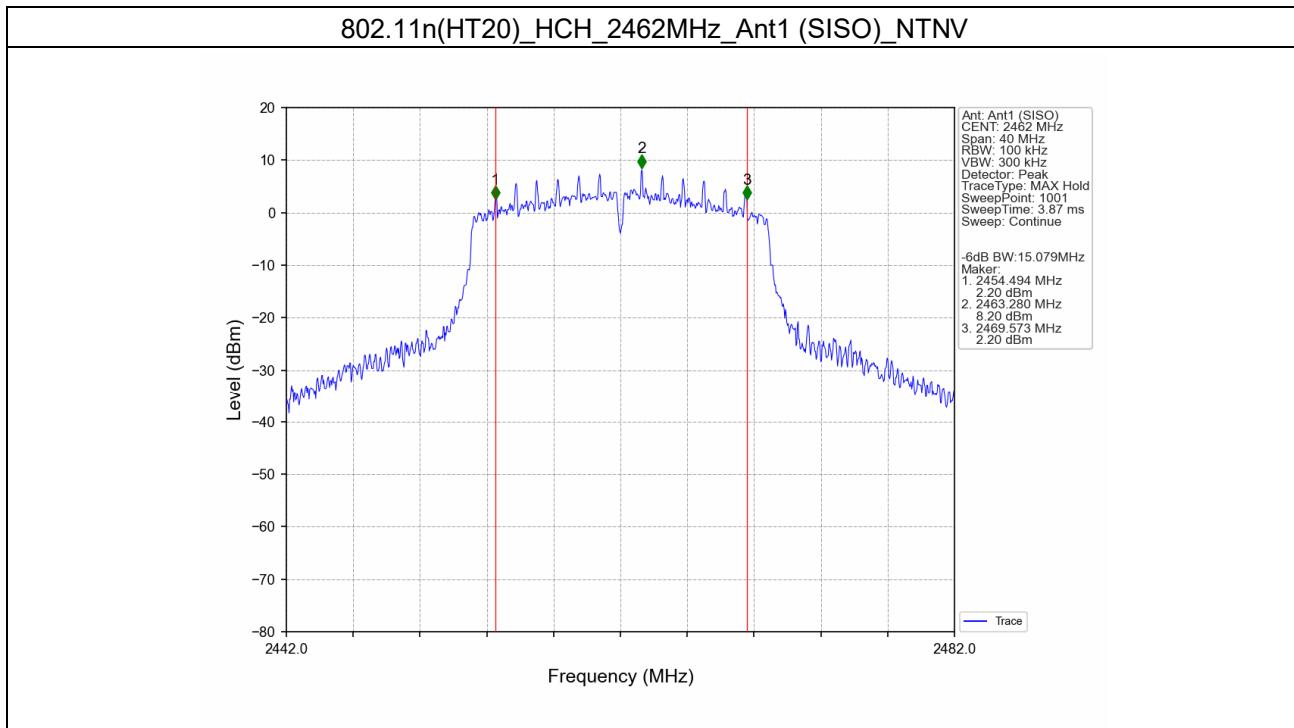
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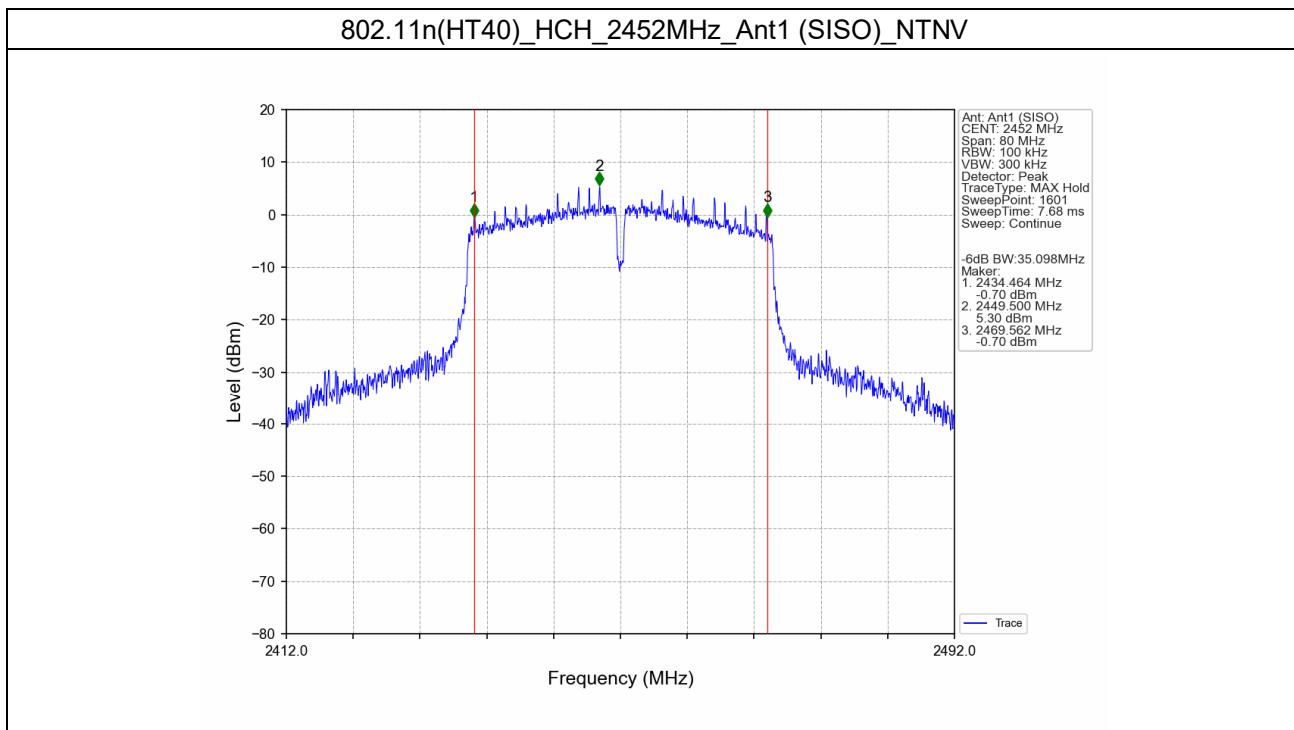
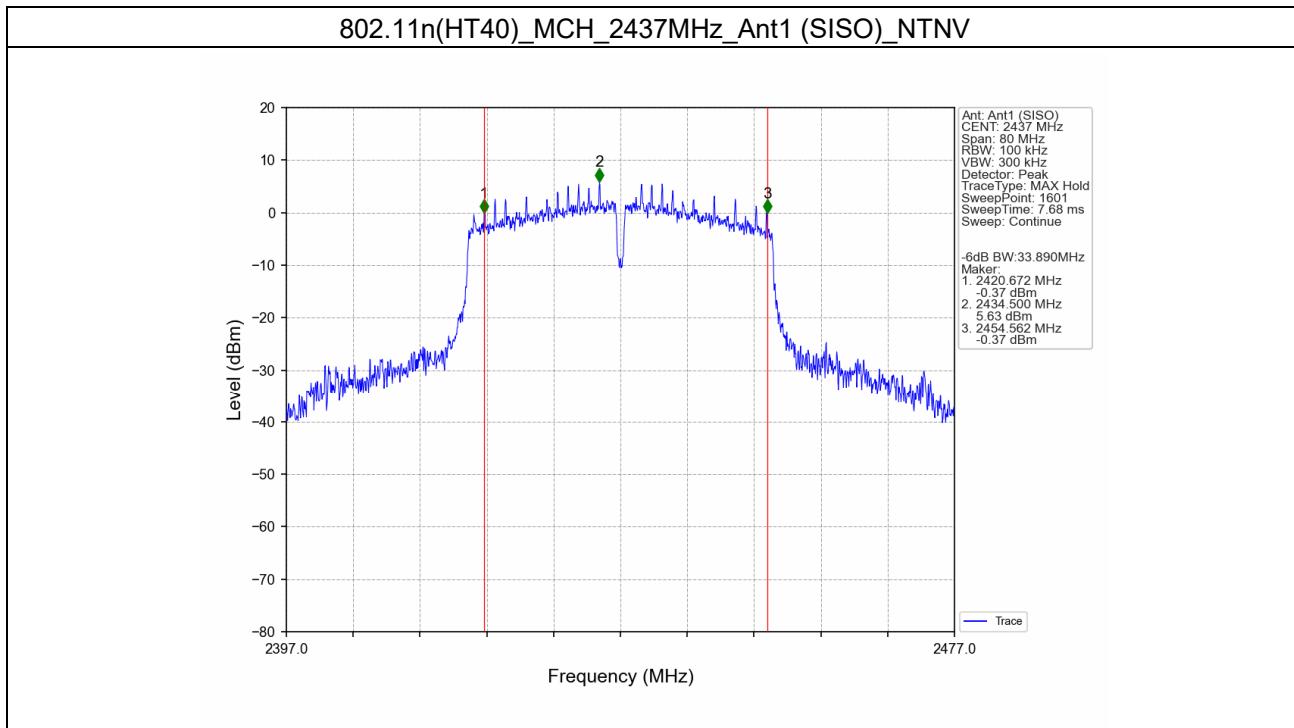
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	17.01	<=30	Pass
		2437	19.29	<=30	Pass
		2462	20.67	<=30	Pass
802.11g	SISO	2412	15.30	<=30	Pass
		2437	17.08	<=30	Pass
		2462	16.87	<=30	Pass
802.11n (HT20)	SISO	2412	14.55	<=30	Pass
		2437	17.01	<=30	Pass
		2462	16.76	<=30	Pass
802.11n (HT40)	SISO	2422	11.58	<=30	Pass
		2437	17.65	<=30	Pass
		2452	14.01	<=30	Pass

Note1: Antenna Gain: Ant1: 2.71dBi;

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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)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	5.93	<=8	Pass
		2437	5.61	<=8	Pass
		2462	1.23	<=8	Pass
802.11g	SISO	2412	-11.48	<=8	Pass
		2437	-8.68	<=8	Pass
		2462	-9.01	<=8	Pass
802.11n (HT20)	SISO	2412	-11.73	<=8	Pass
		2437	-9.74	<=8	Pass
		2462	-8.80	<=8	Pass
802.11n (HT40)	SISO	2422	-15.42	<=8	Pass
		2437	-15.06	<=8	Pass
		2452	-15.80	<=8	Pass

Note1: Antenna Gain: Ant1: 2.71dBi;

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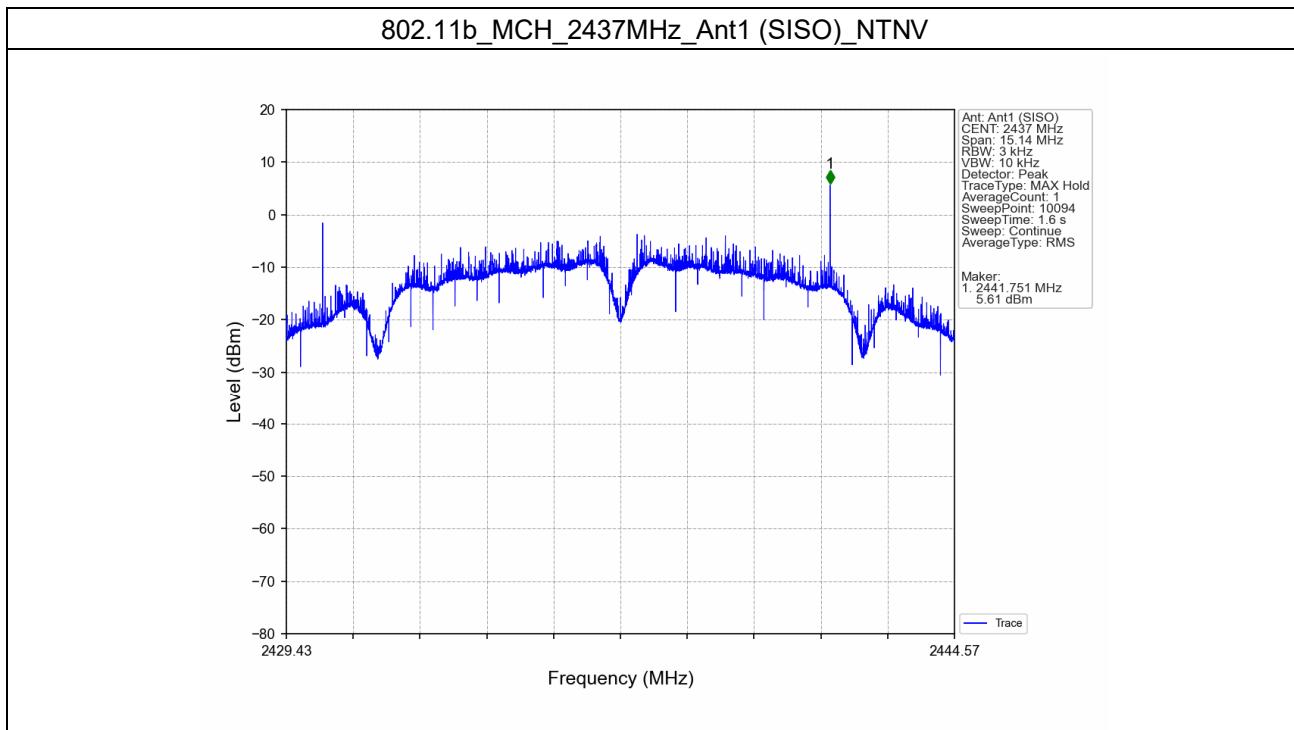
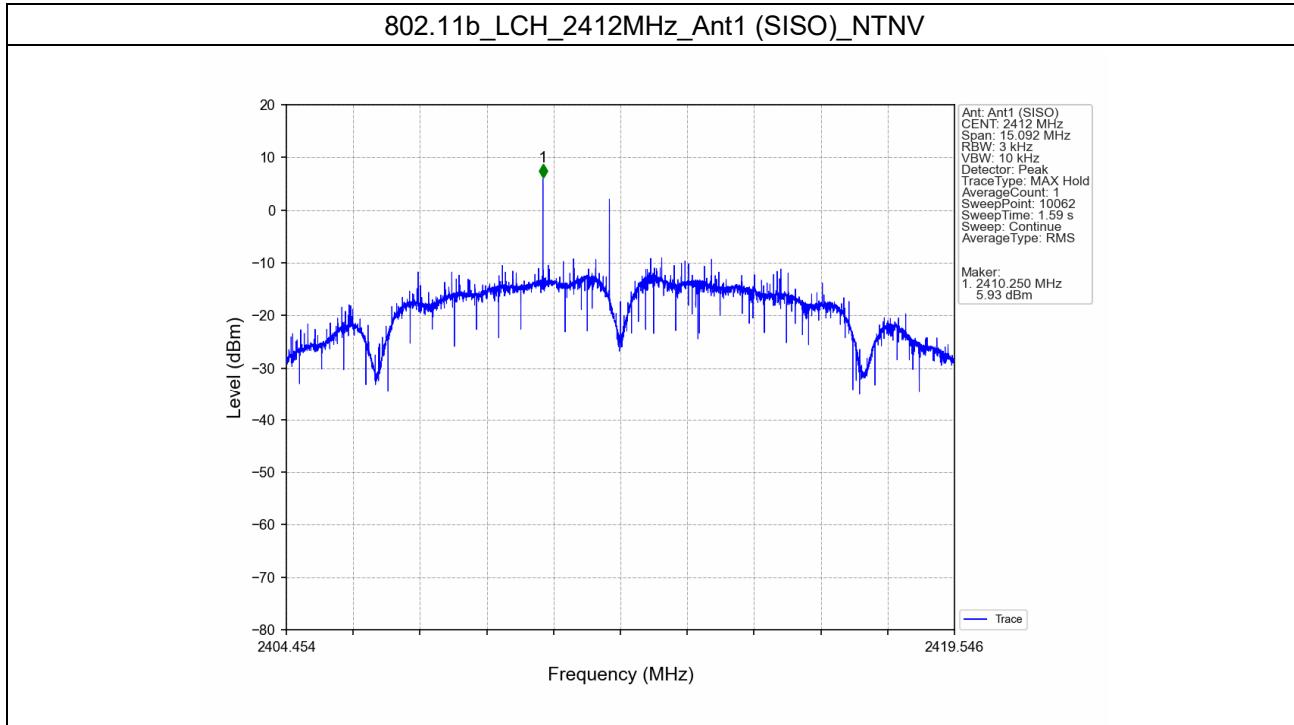
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4.2 Test Graph

4.2.1 PSD



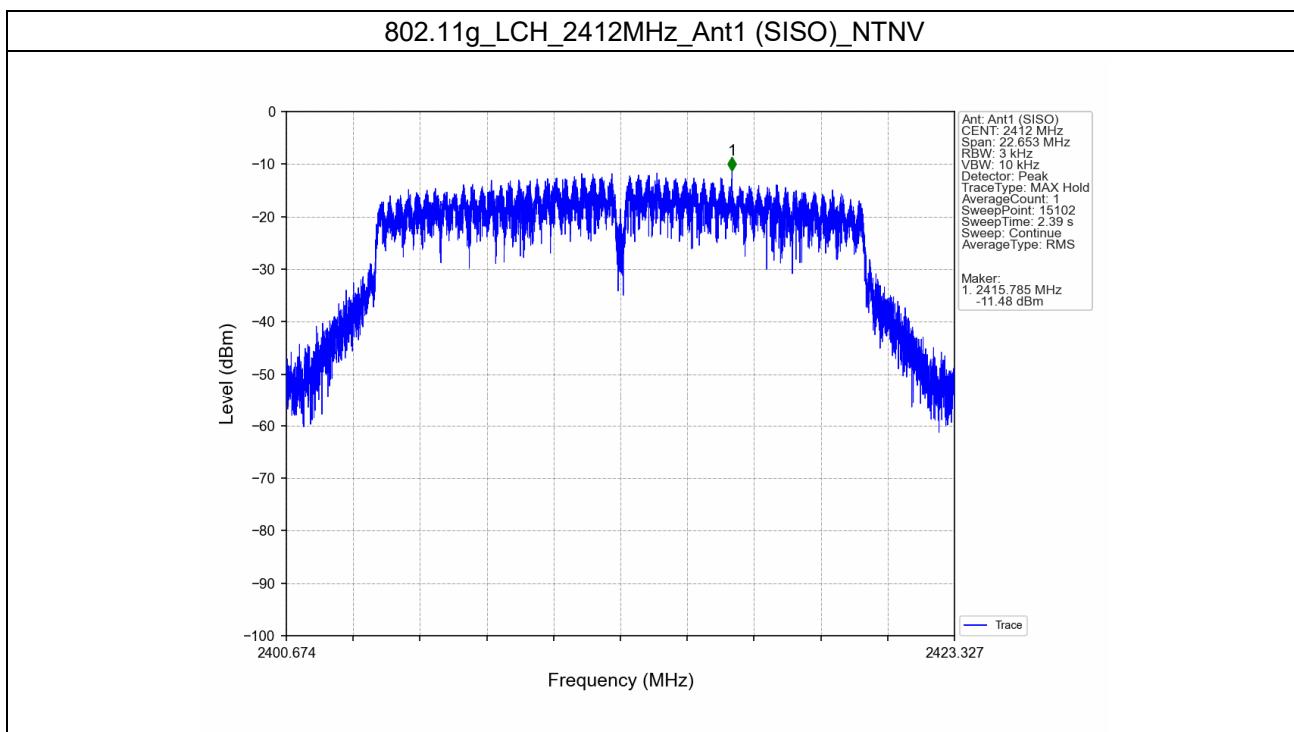
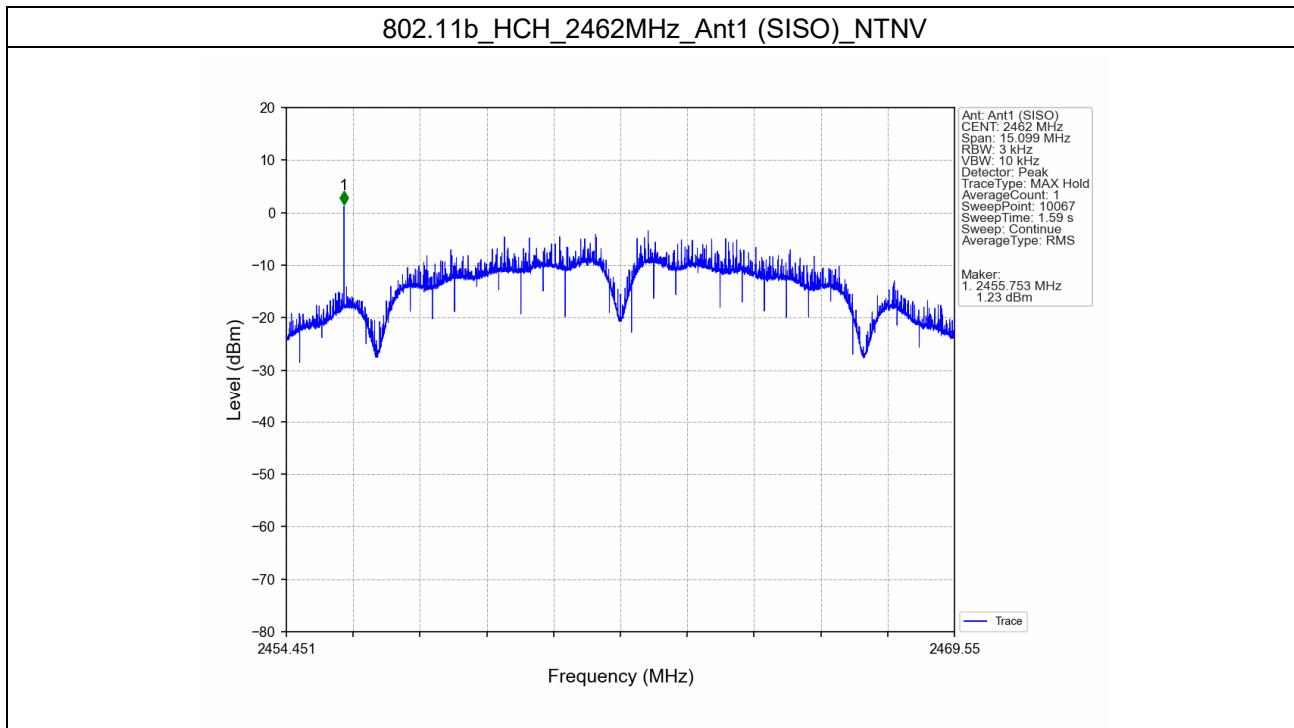
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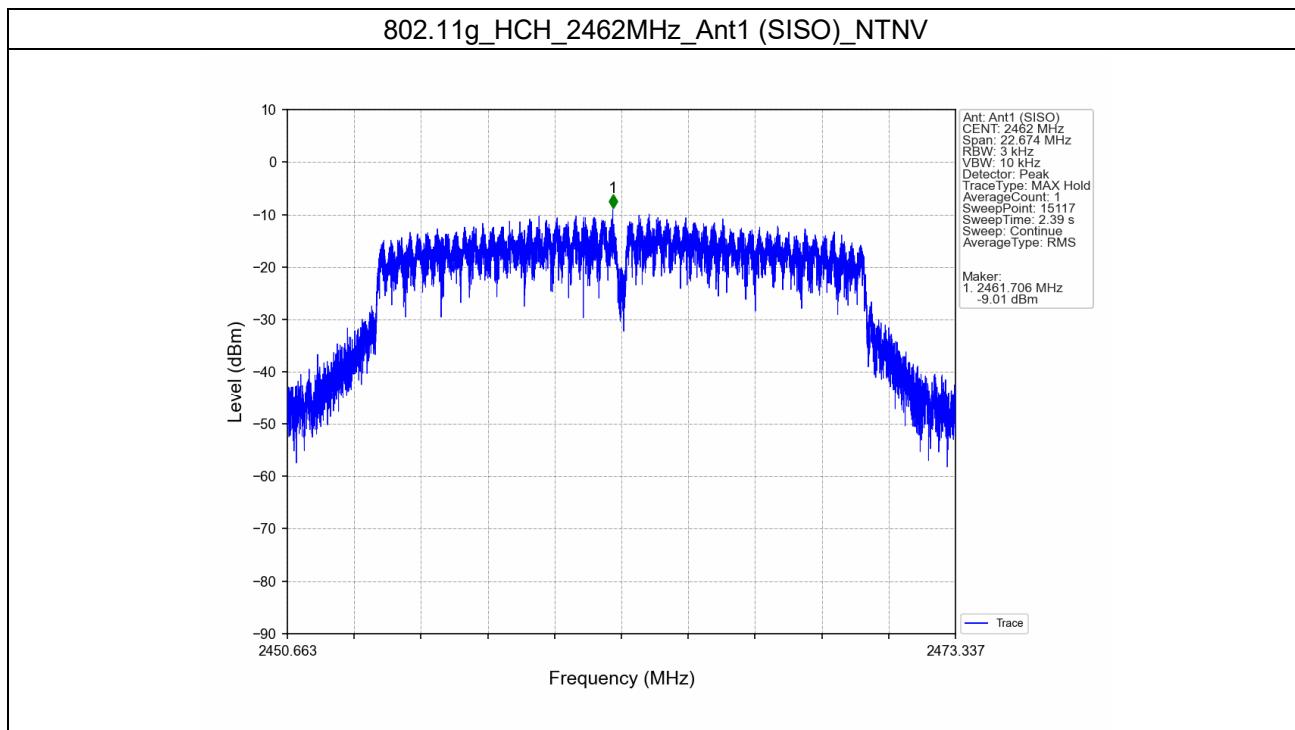
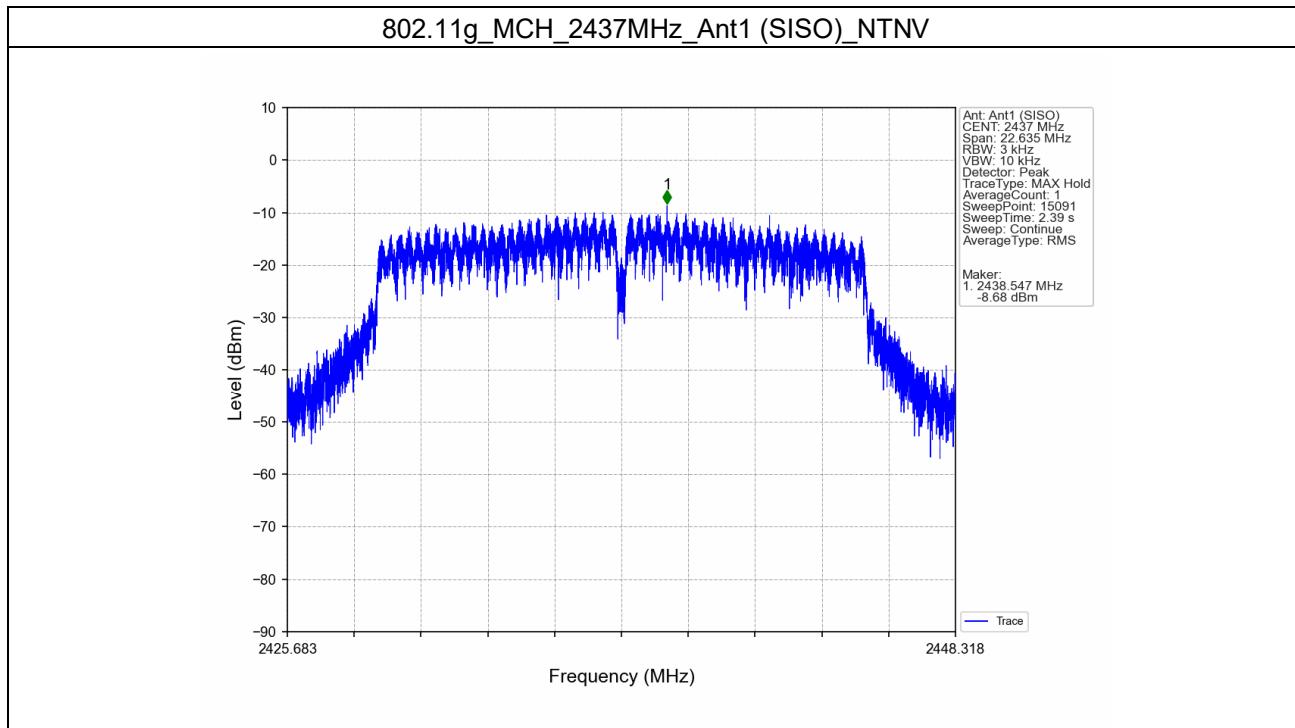
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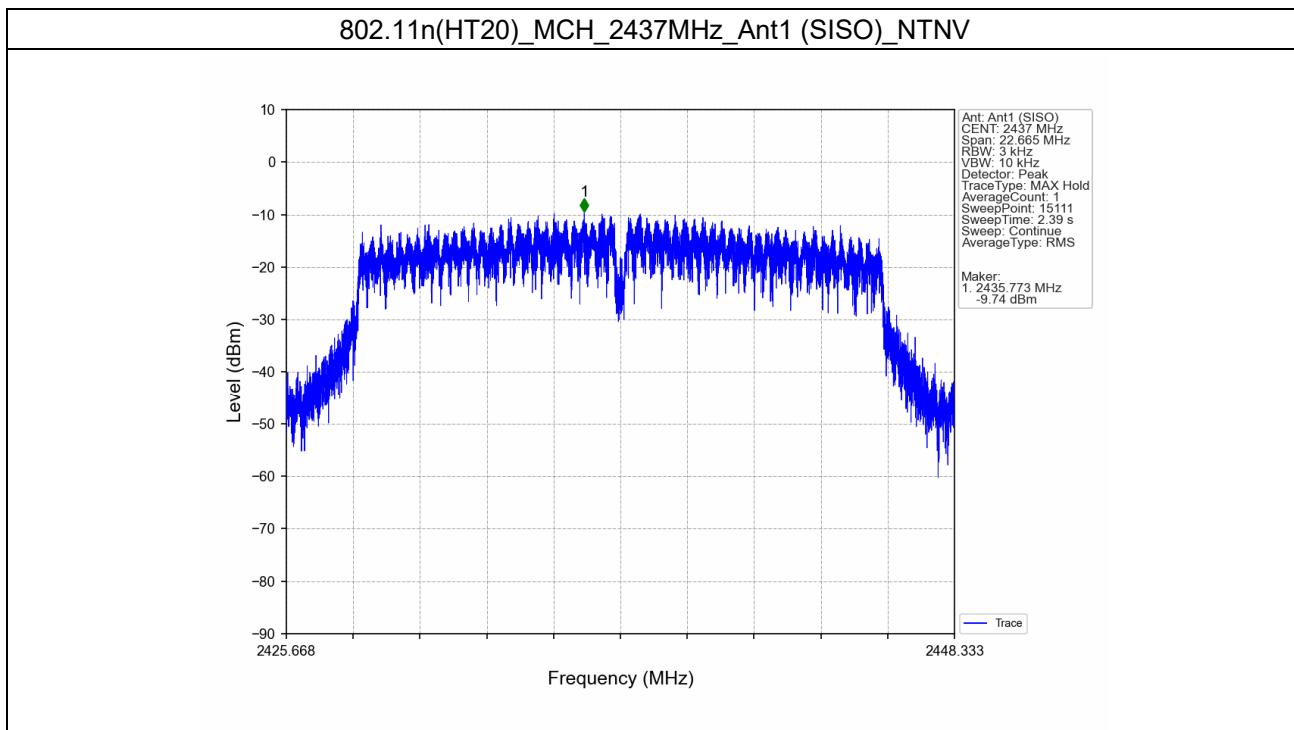
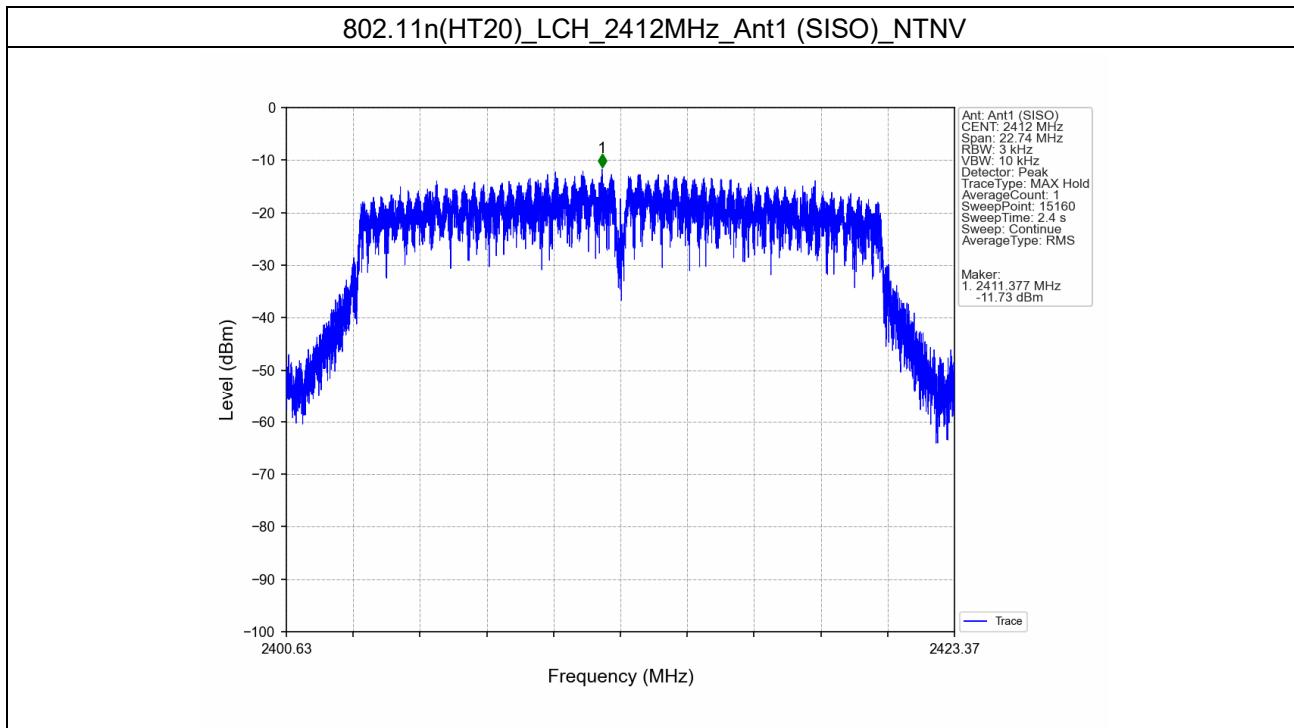


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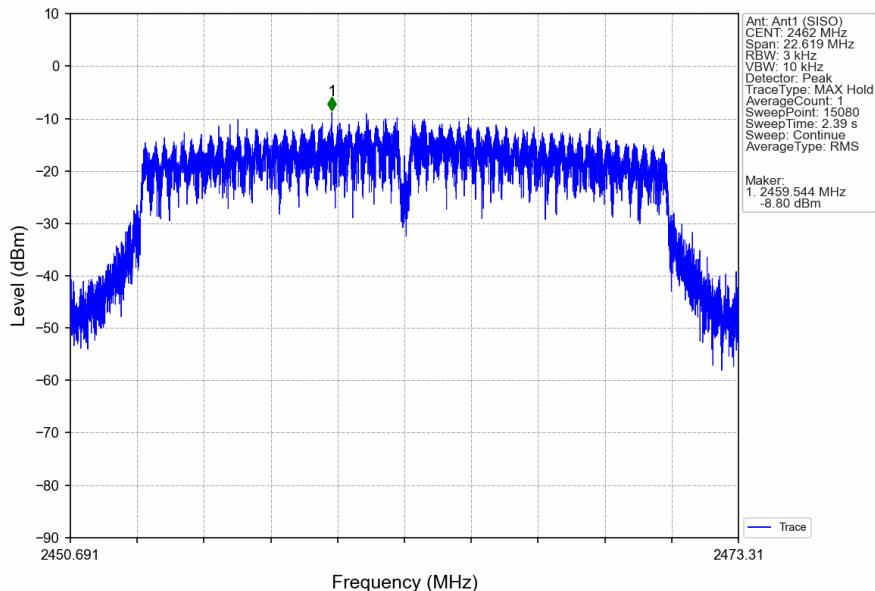




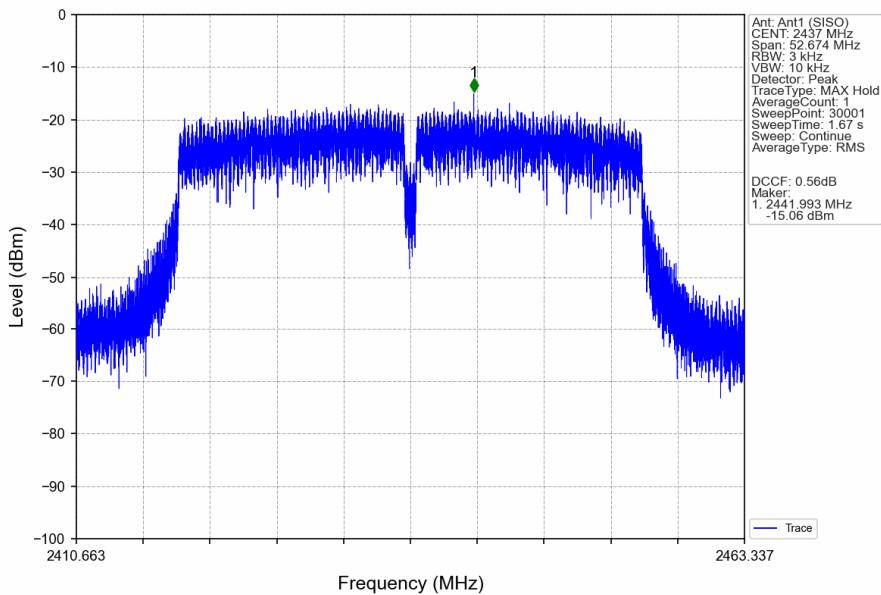
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



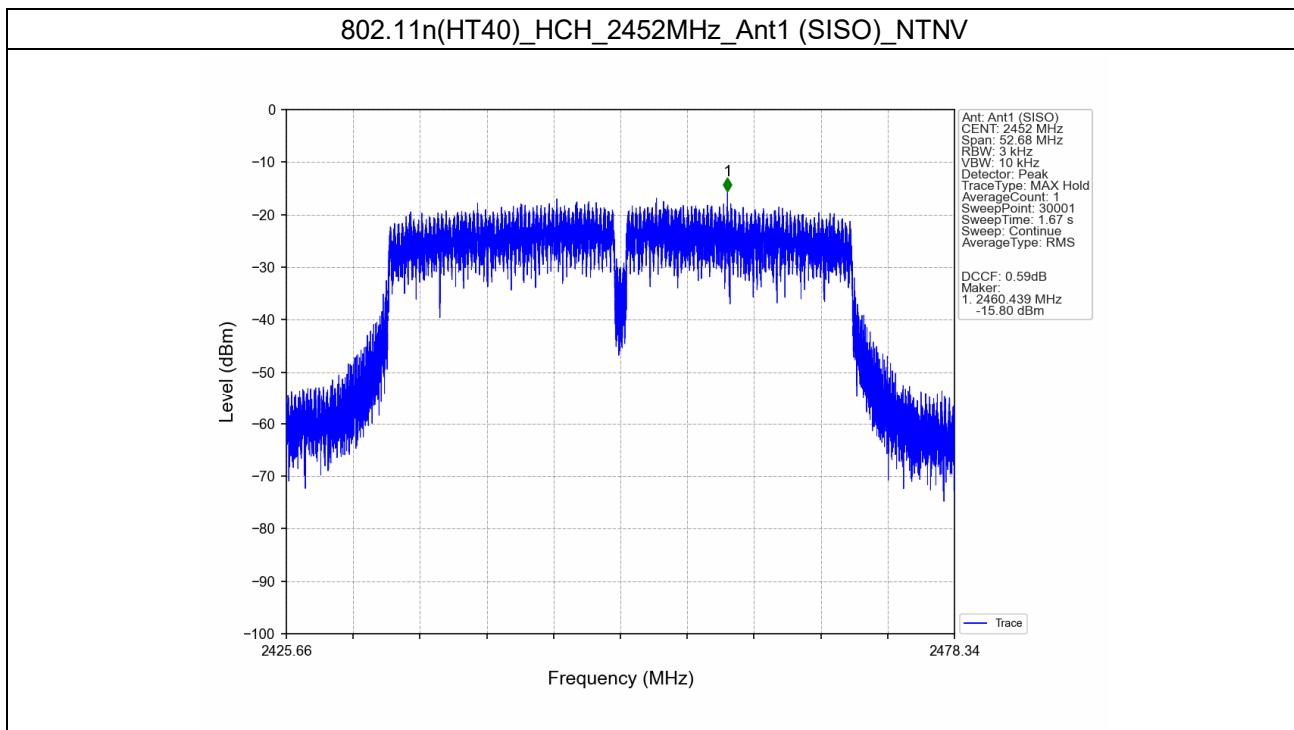
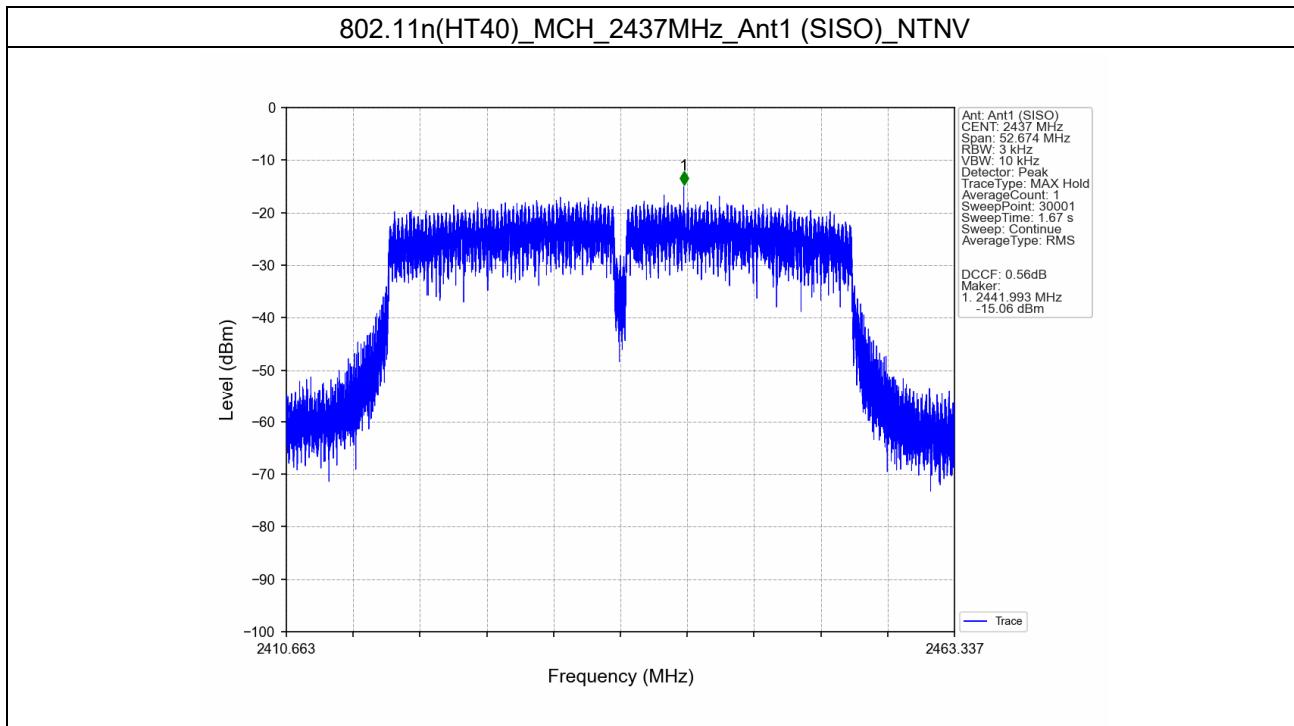
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	7.61
		2437	1	11.28
		2462	1	10.95
802.11g	SISO	2412	1	5.38
		2437	1	6.85
		2462	1	6.69
802.11n (HT20)	SISO	2412	1	4.82
		2437	1	7.38
		2462	1	7.24
802.11n (HT40)	SISO	2422	1	-1.43
		2437	1	4.63
		2452	1	1.16

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	11.28	-18.72	Pass
		2437	1	11.28	-18.72	Pass
		2462	1	11.28	-18.72	Pass
802.11g	SISO	2412	1	6.85	-23.15	Pass
		2437	1	6.85	-23.15	Pass
		2462	1	6.85	-23.15	Pass
802.11n (HT20)	SISO	2412	1	7.38	-22.62	Pass
		2437	1	7.38	-22.62	Pass
		2462	1	7.38	-22.62	Pass
802.11n (HT40)	SISO	2422	1	4.63	-25.37	Pass
		2437	1	4.63	-25.37	Pass
		2452	1	4.63	-25.37	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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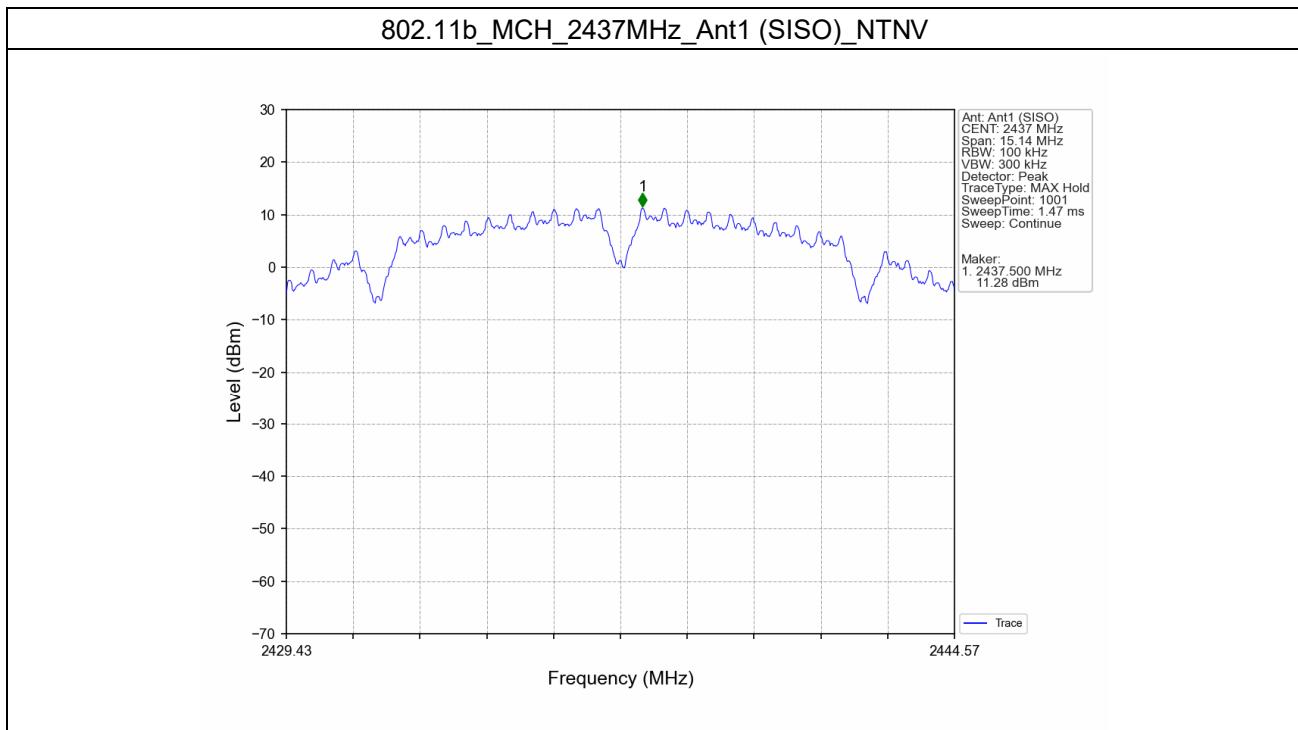
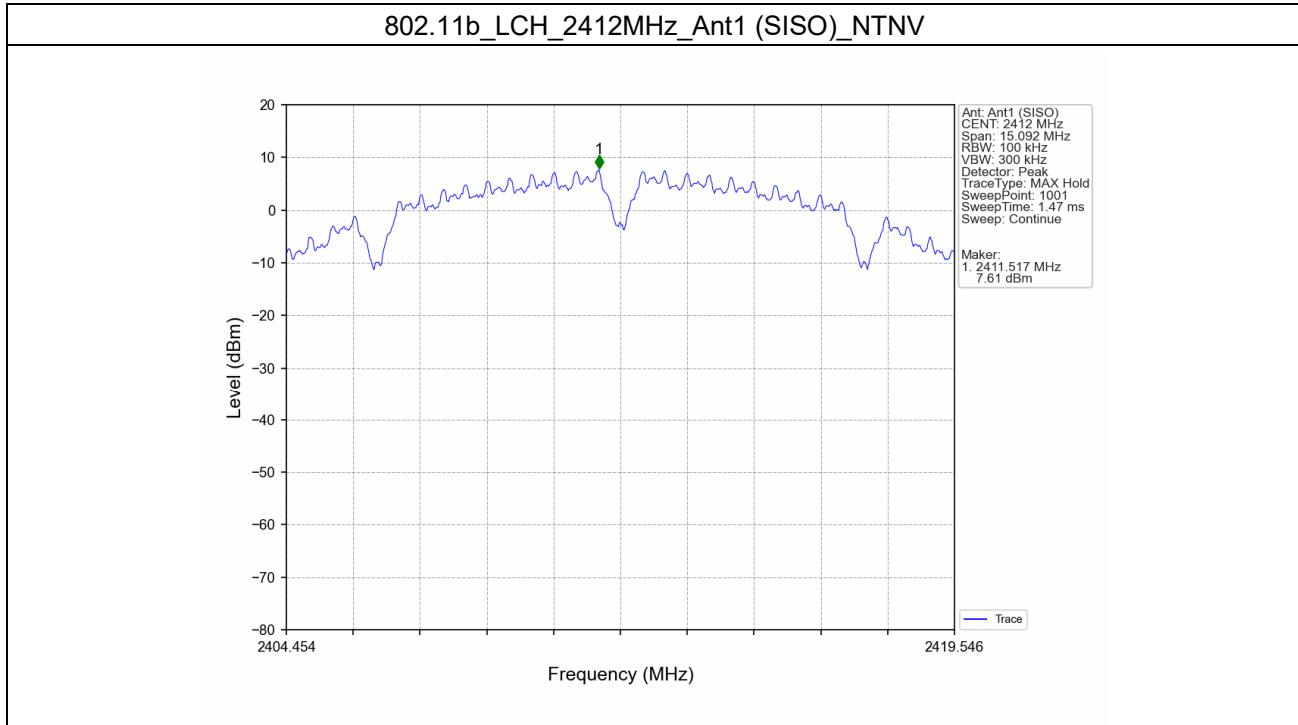
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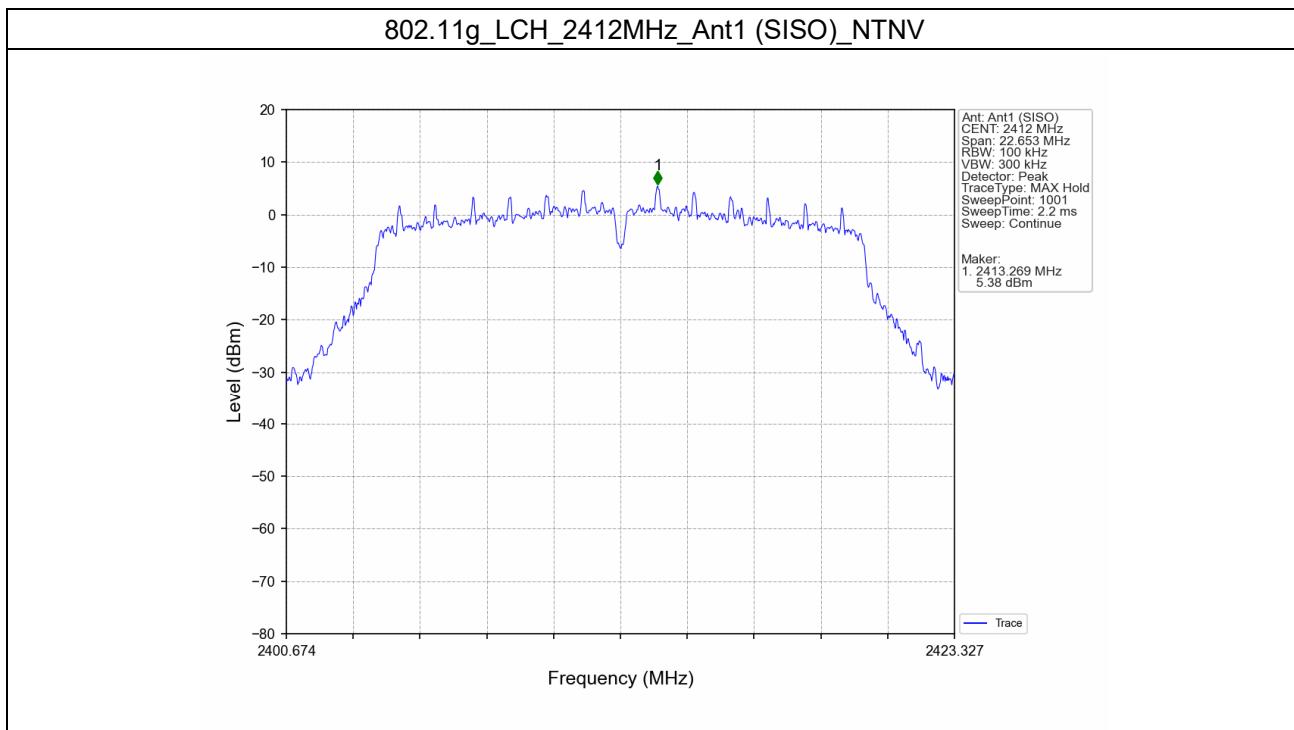
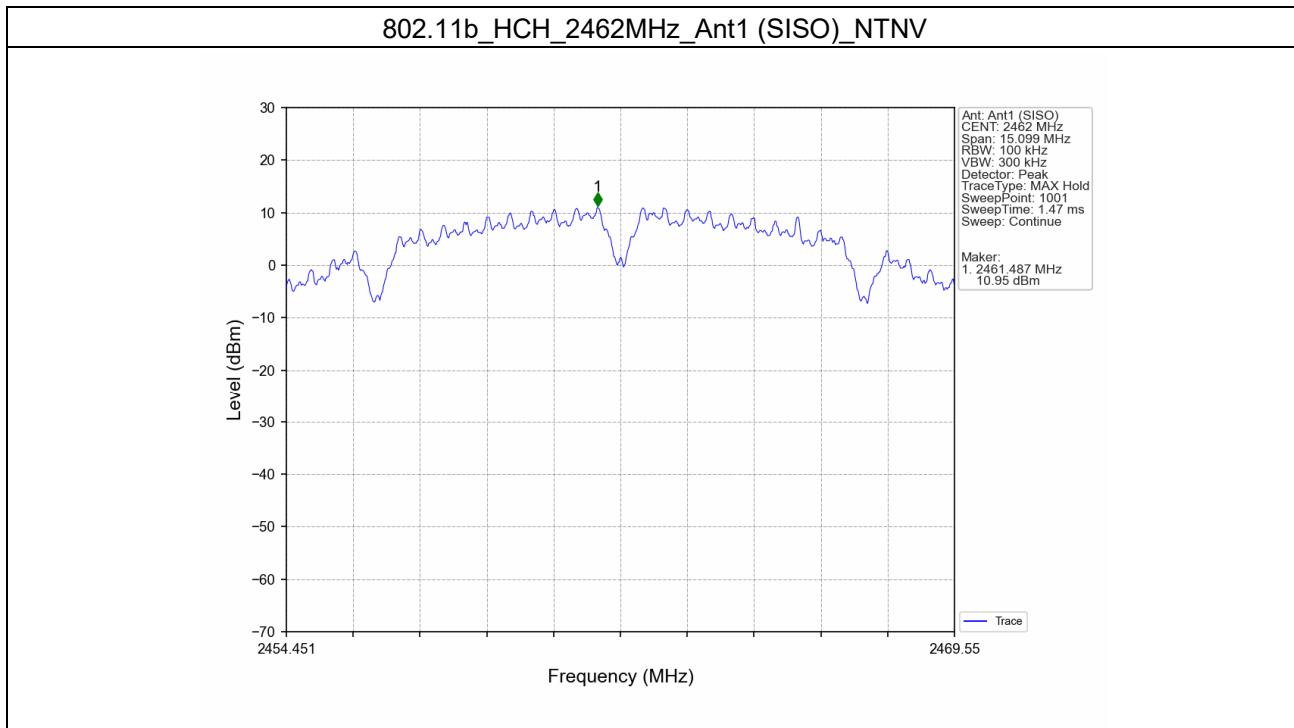
5.2 Test Graph

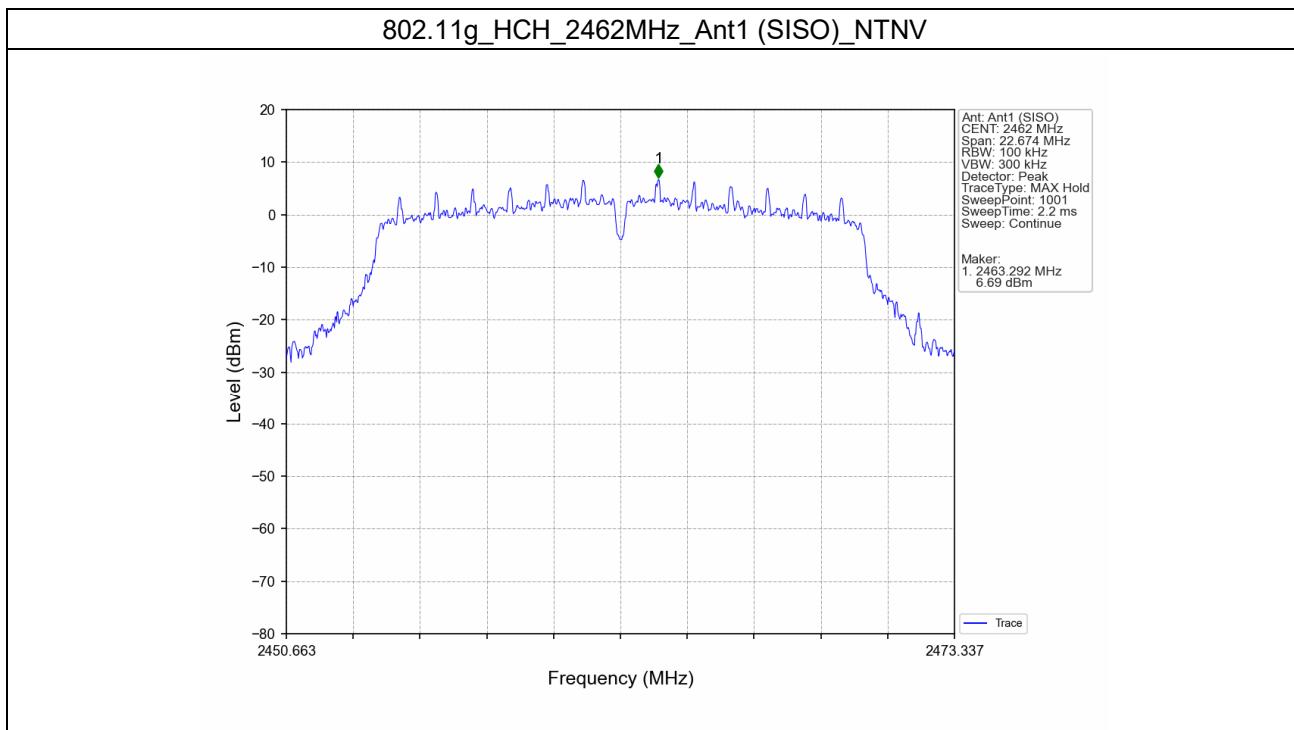
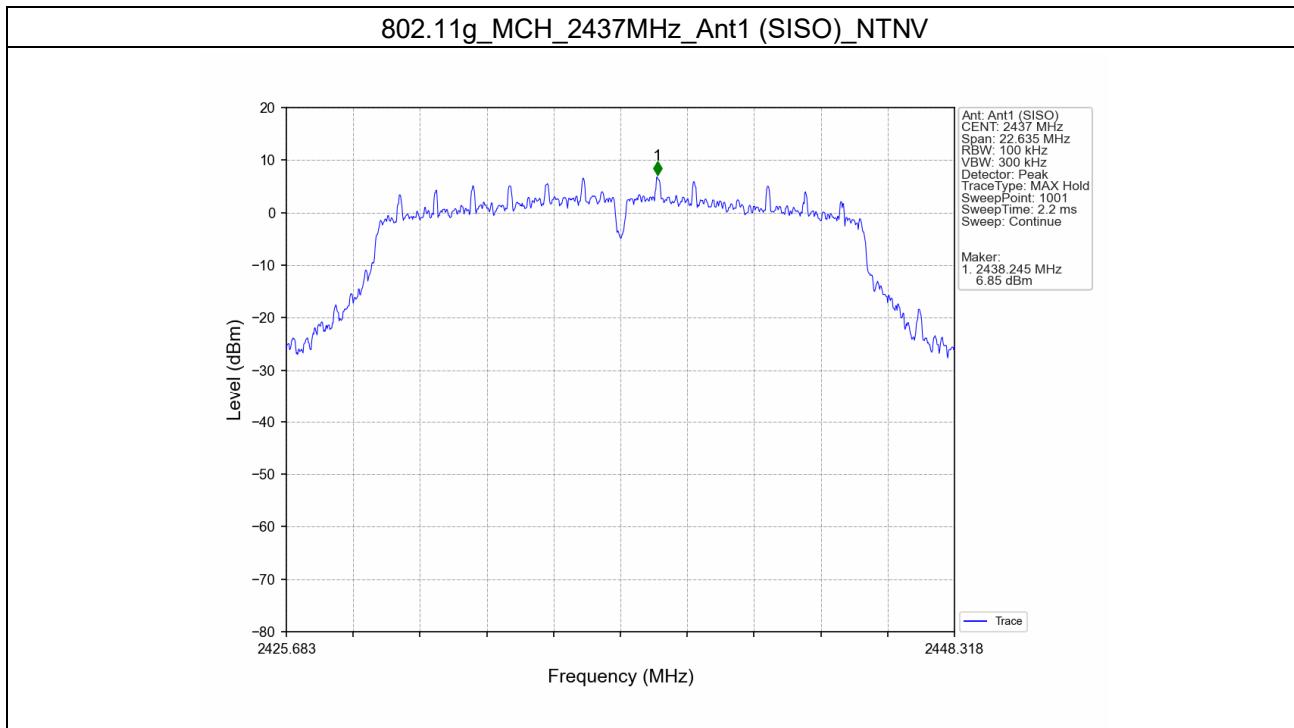
5.2.1 Ref



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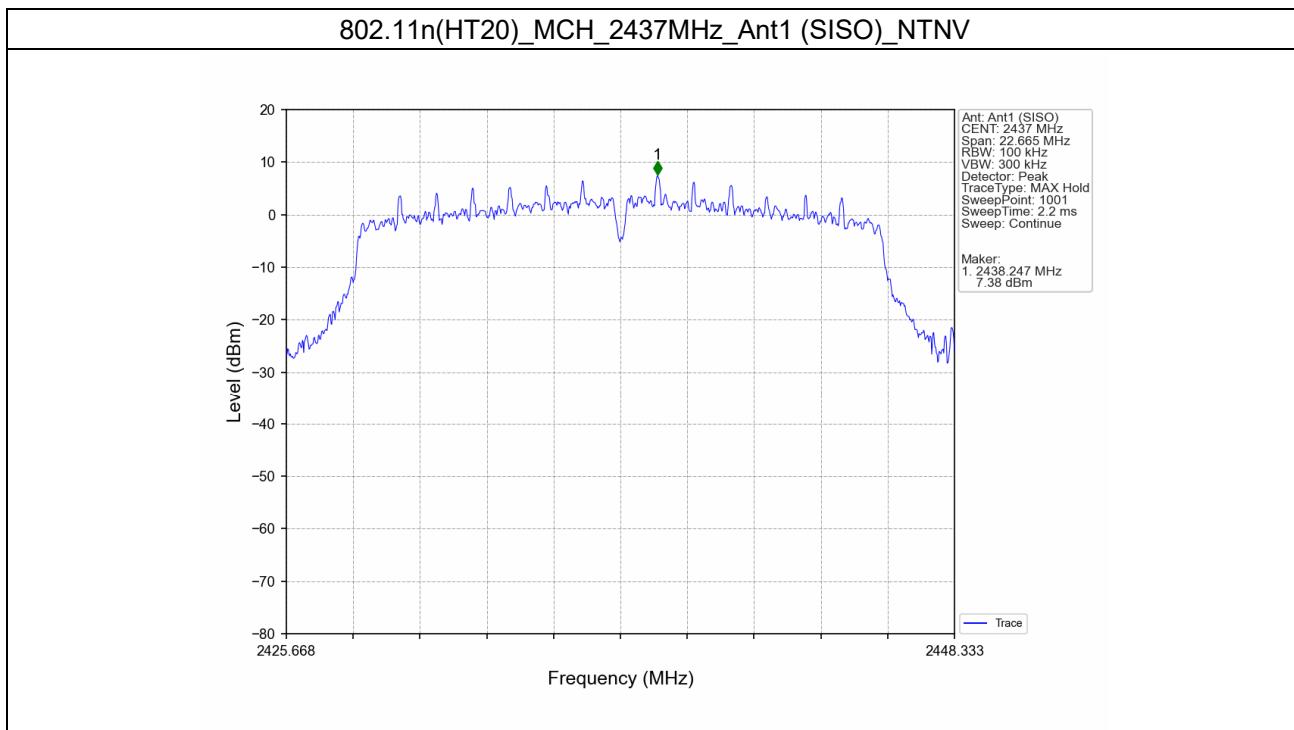
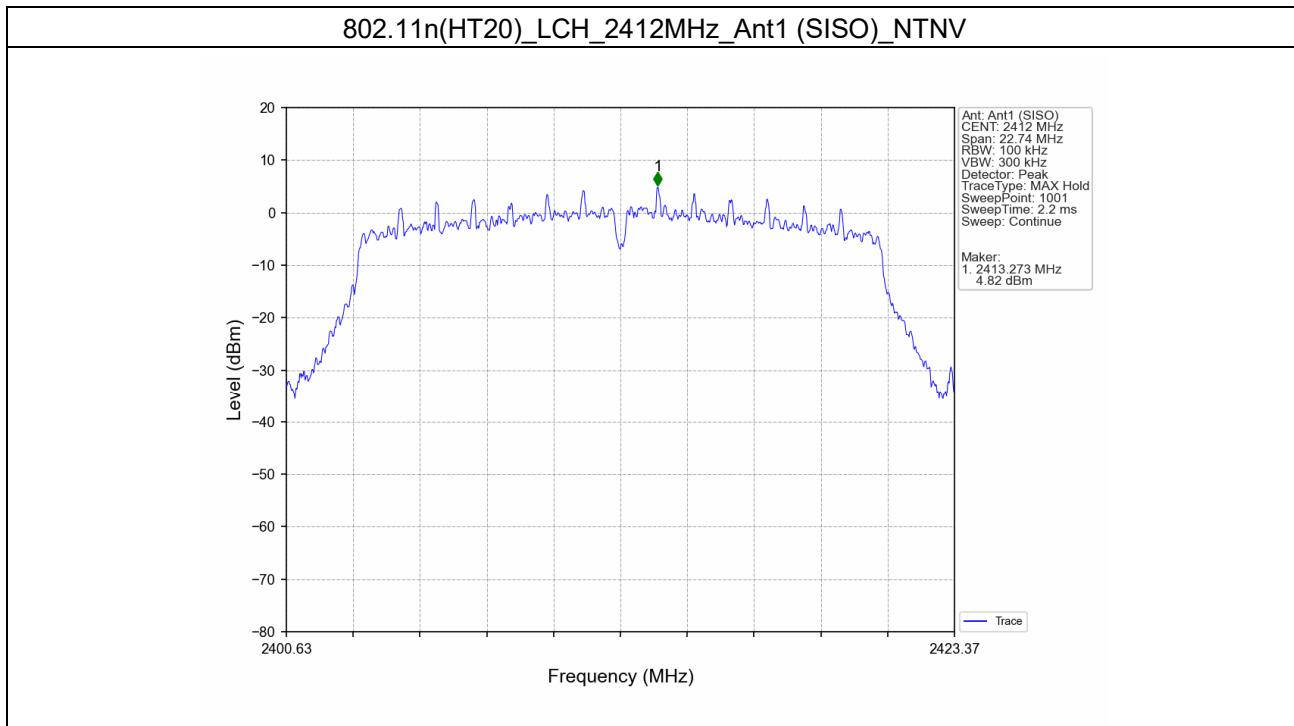
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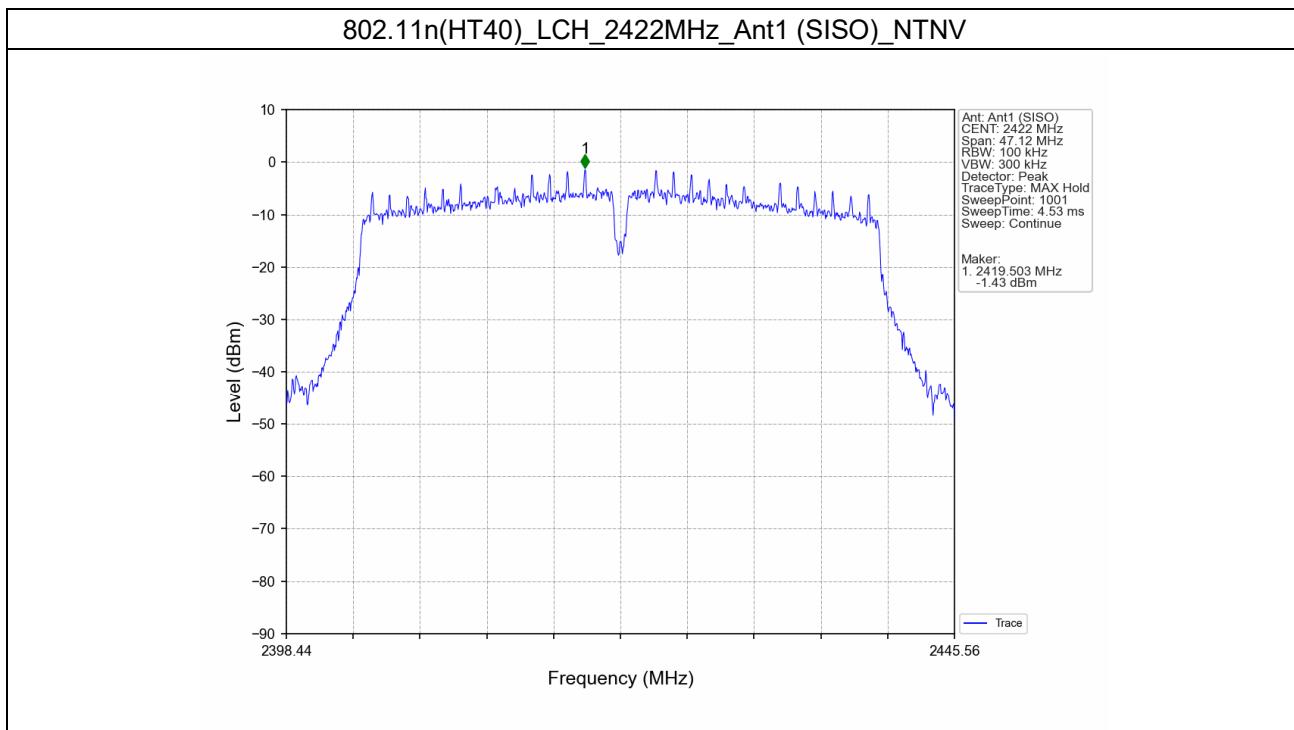
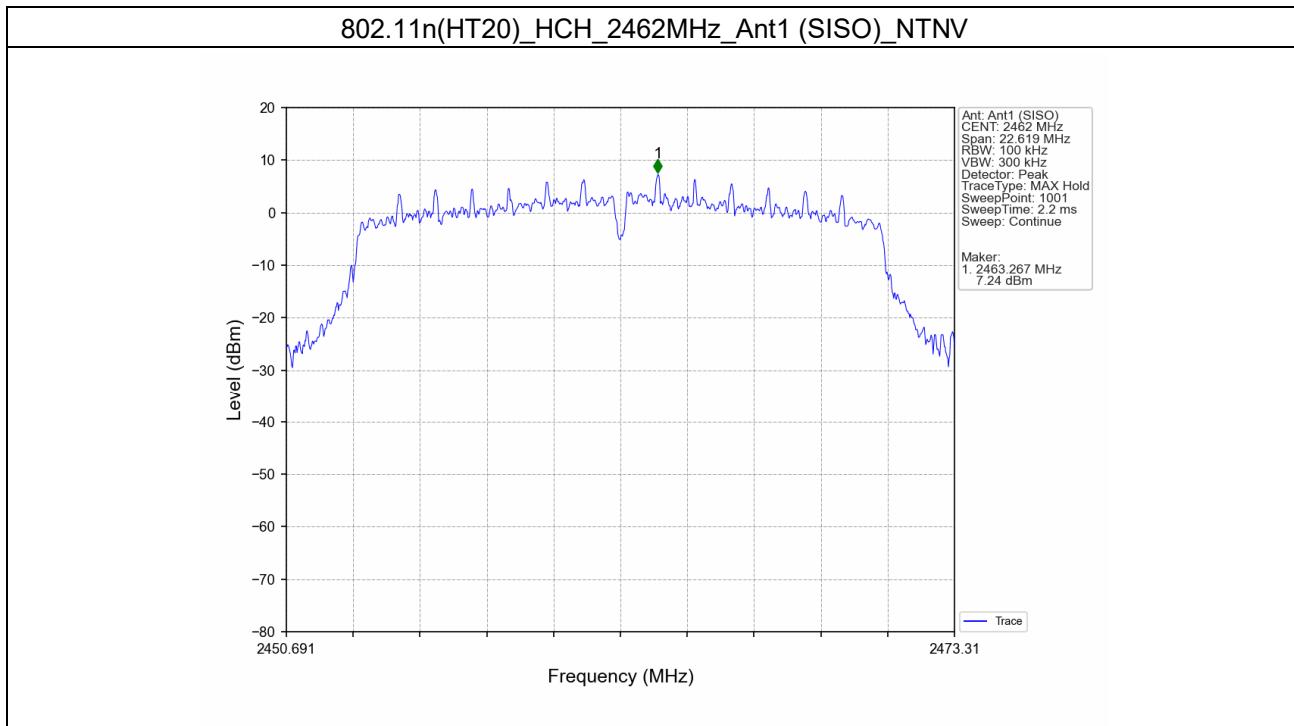
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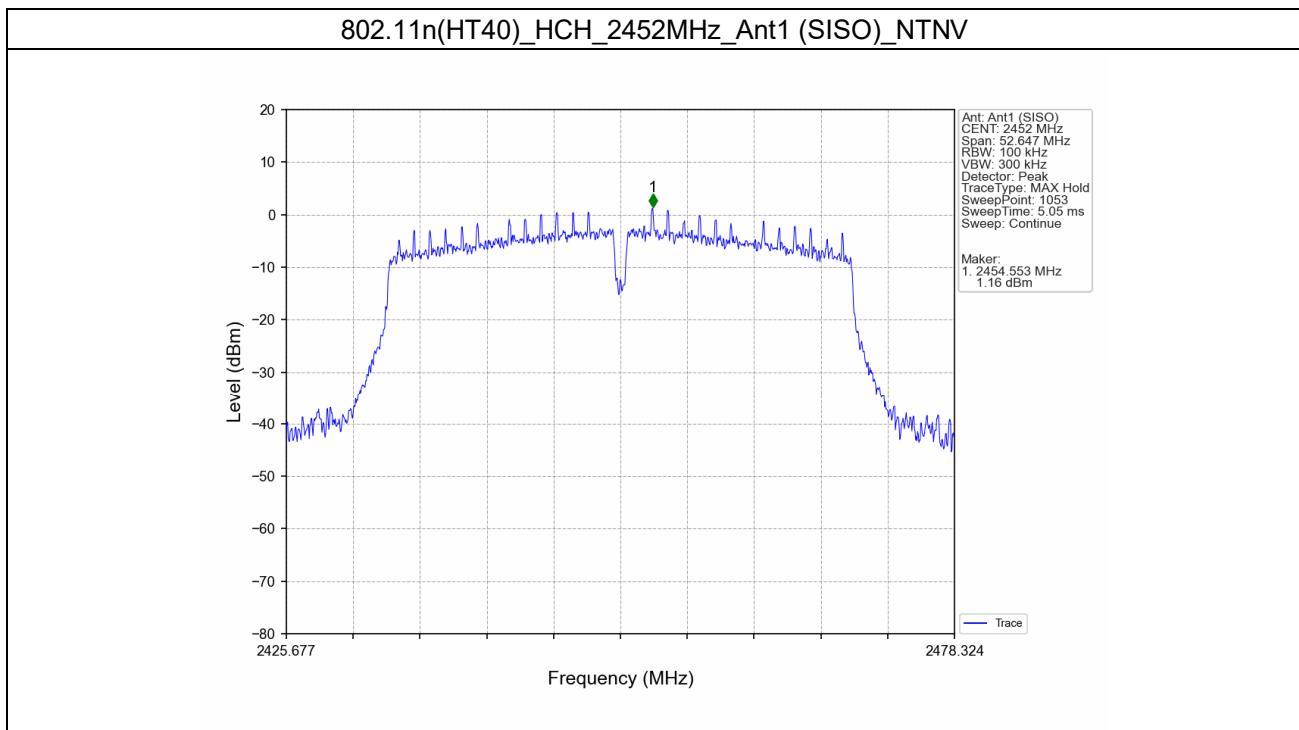
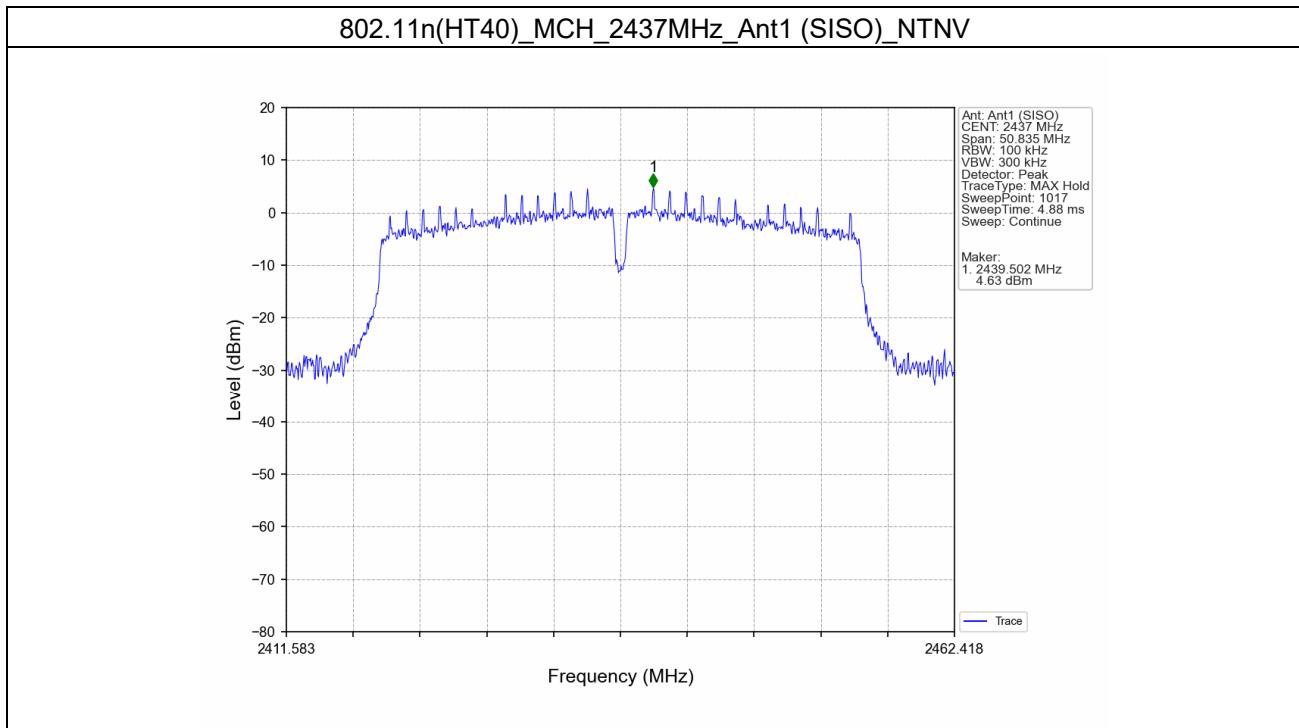
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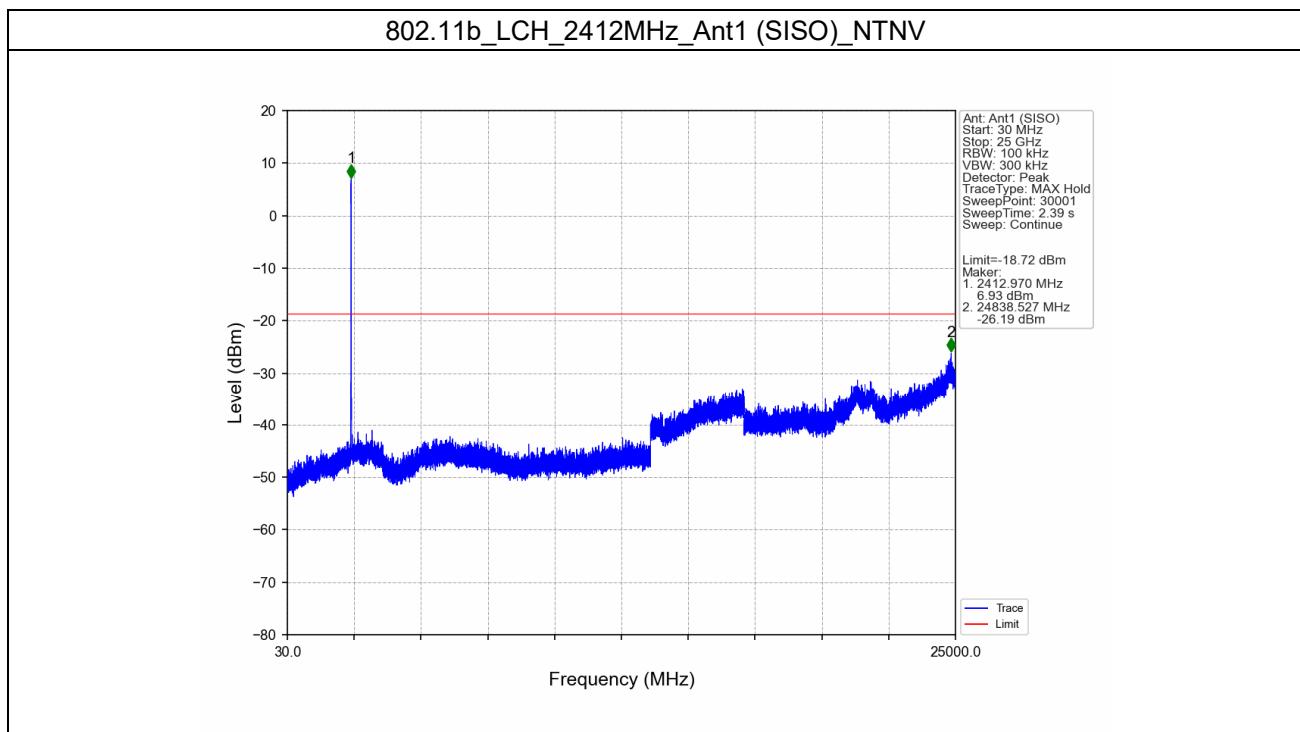
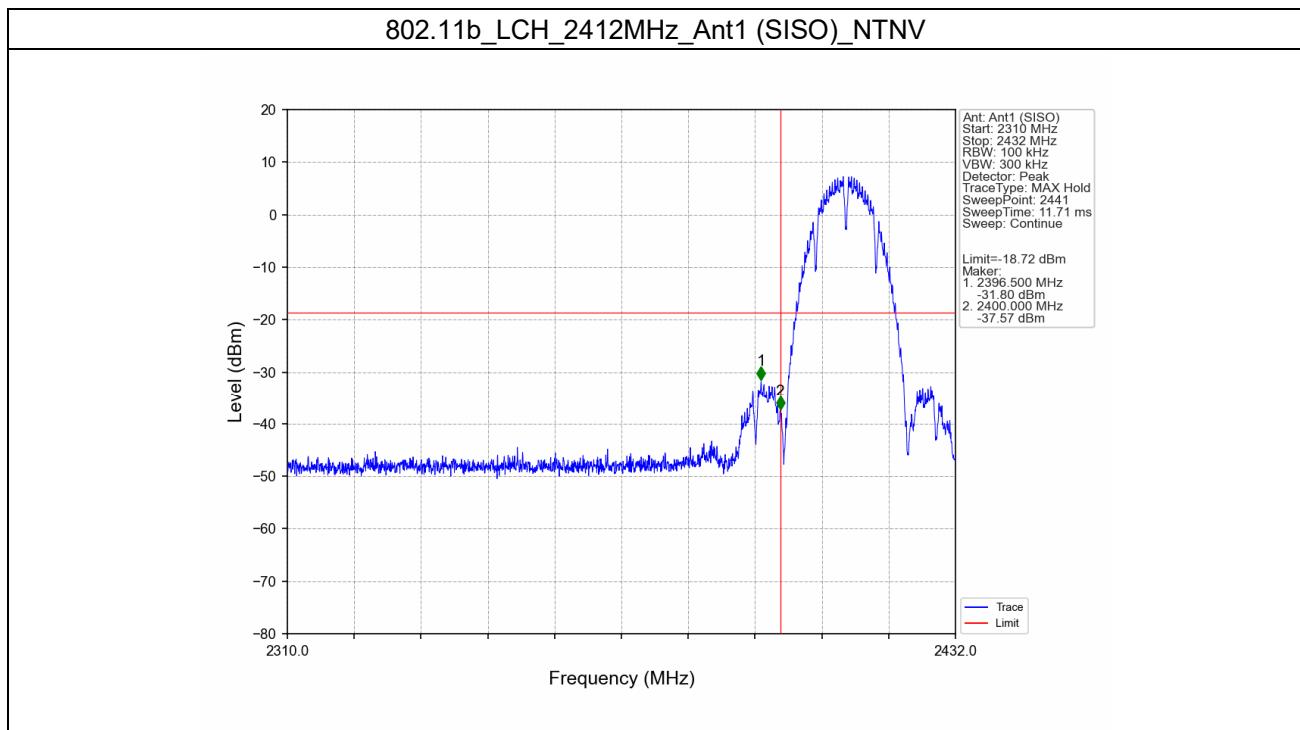
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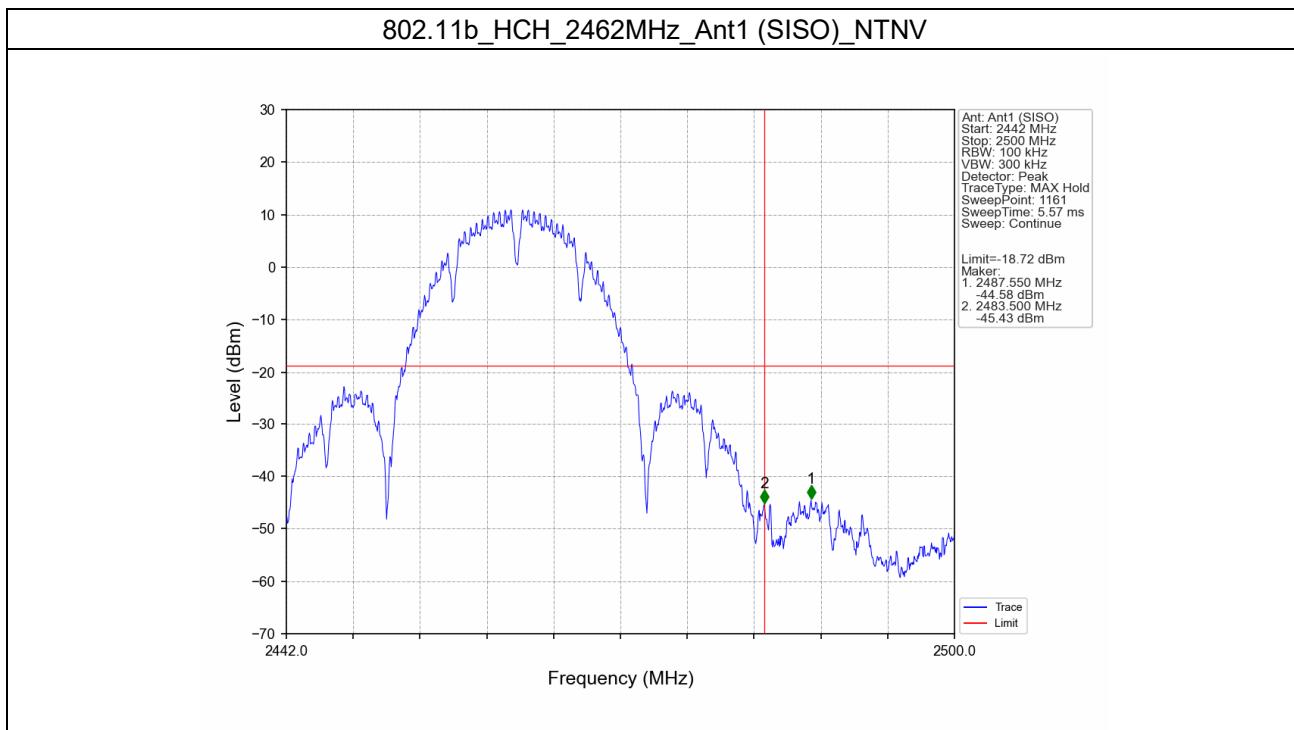
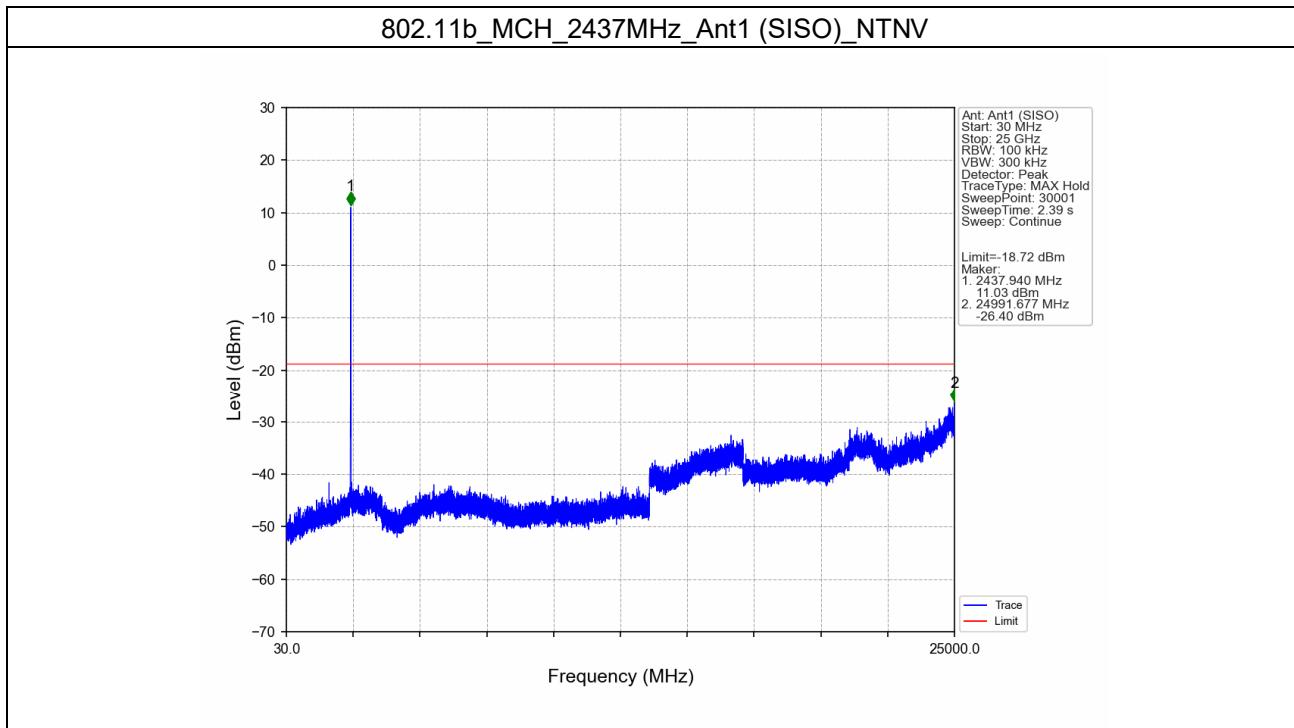
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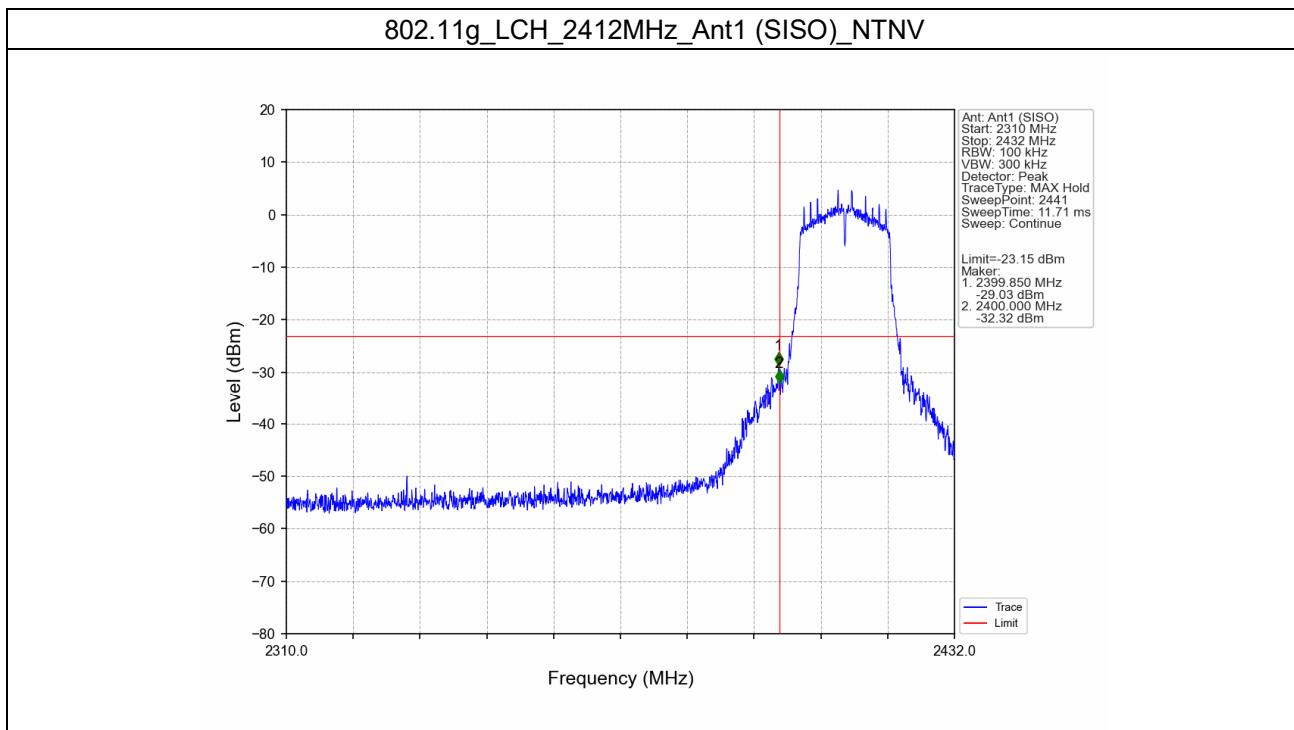
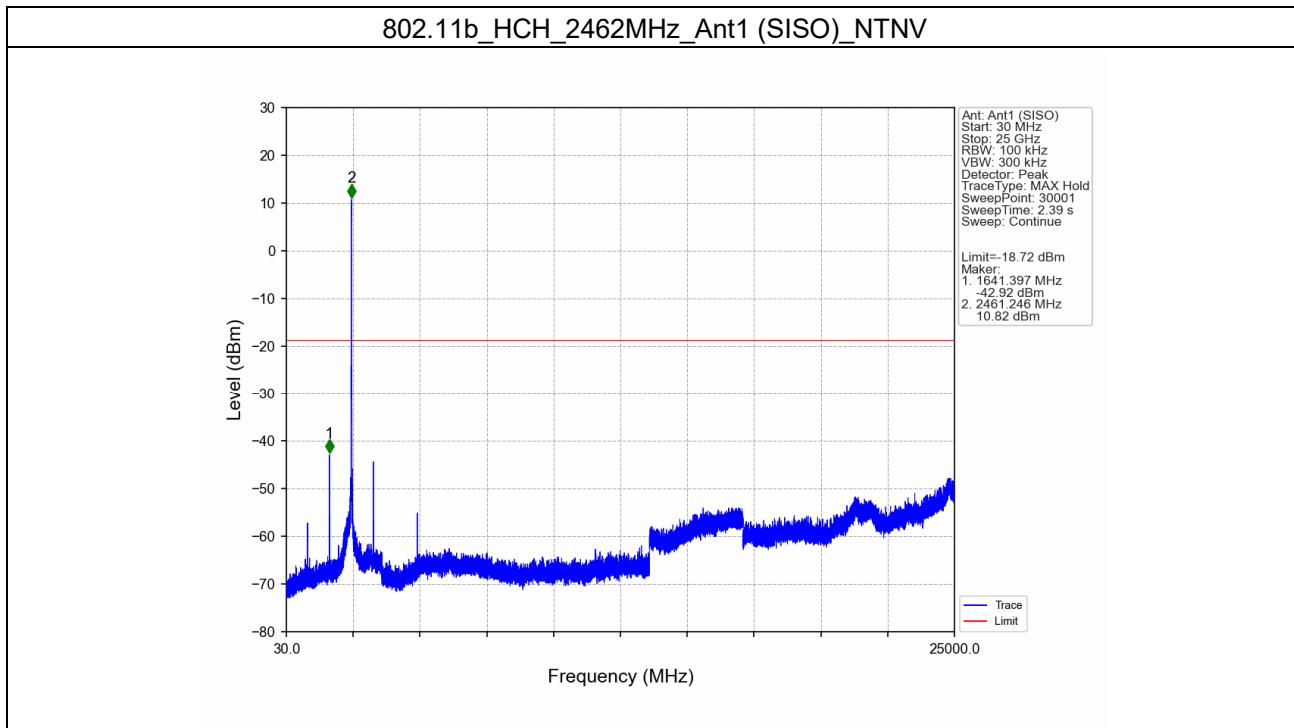
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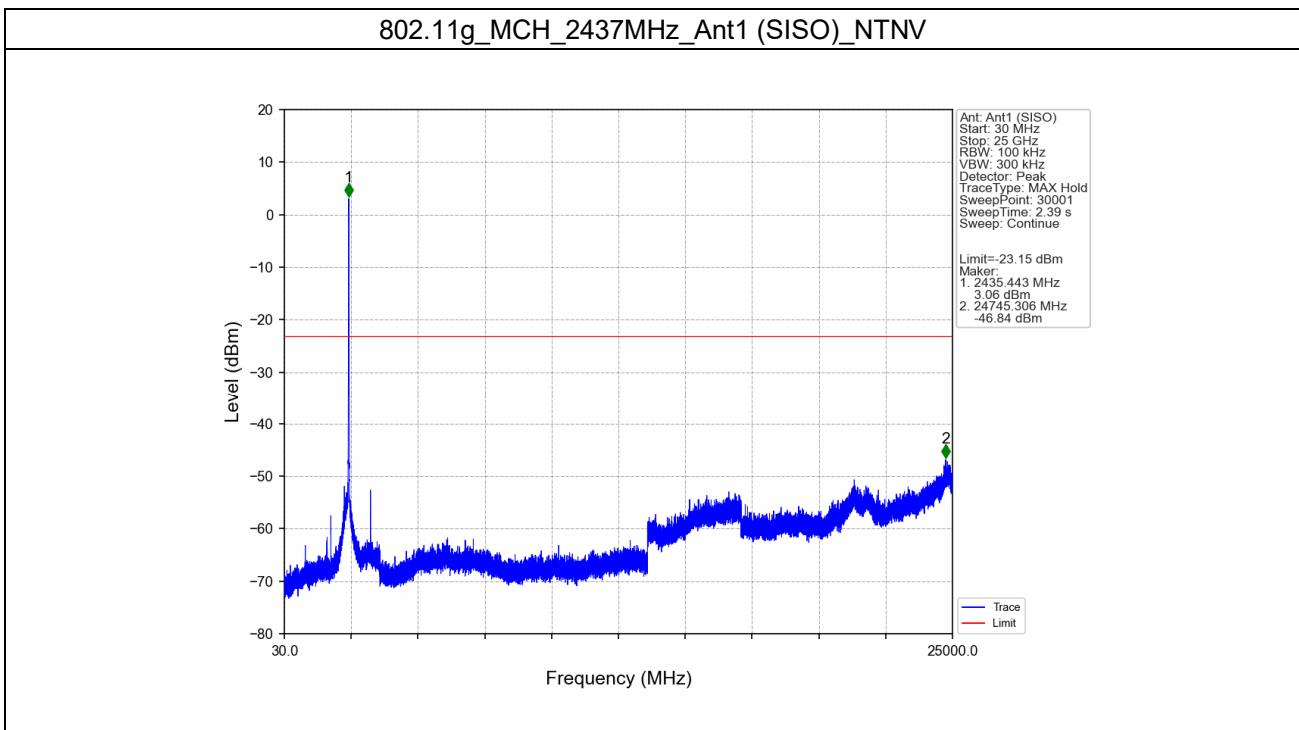
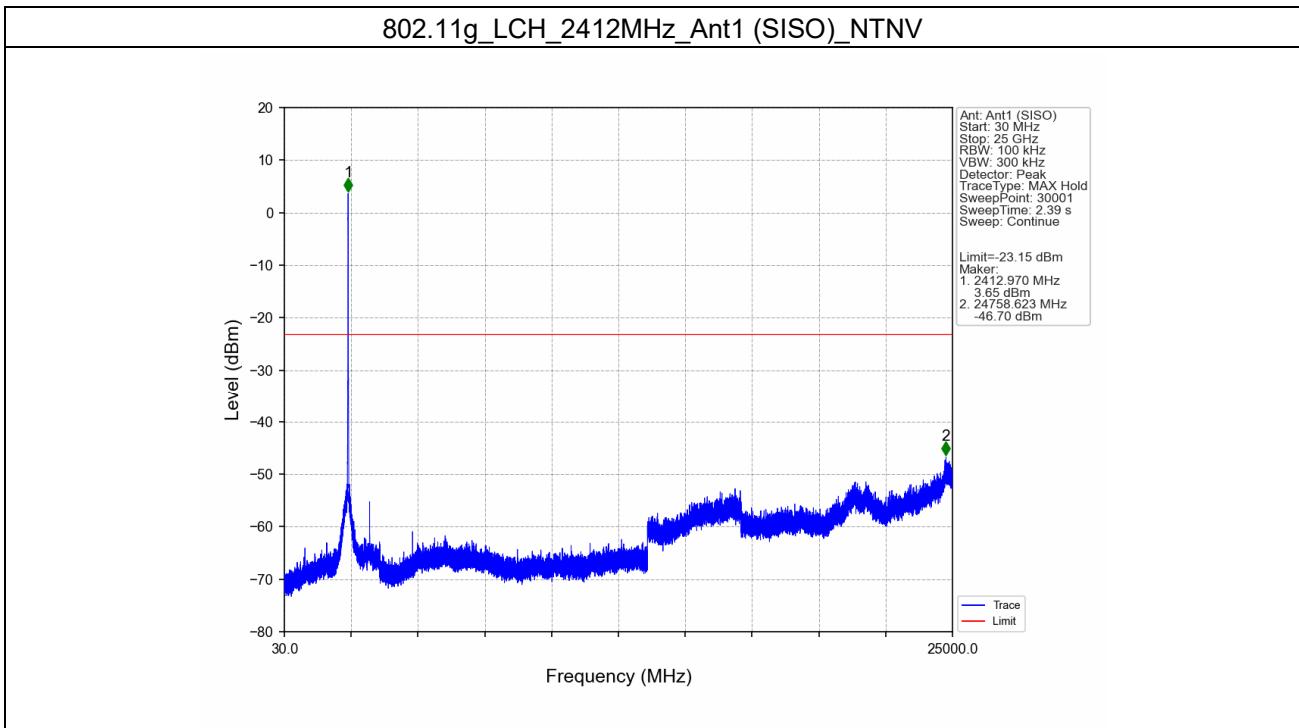
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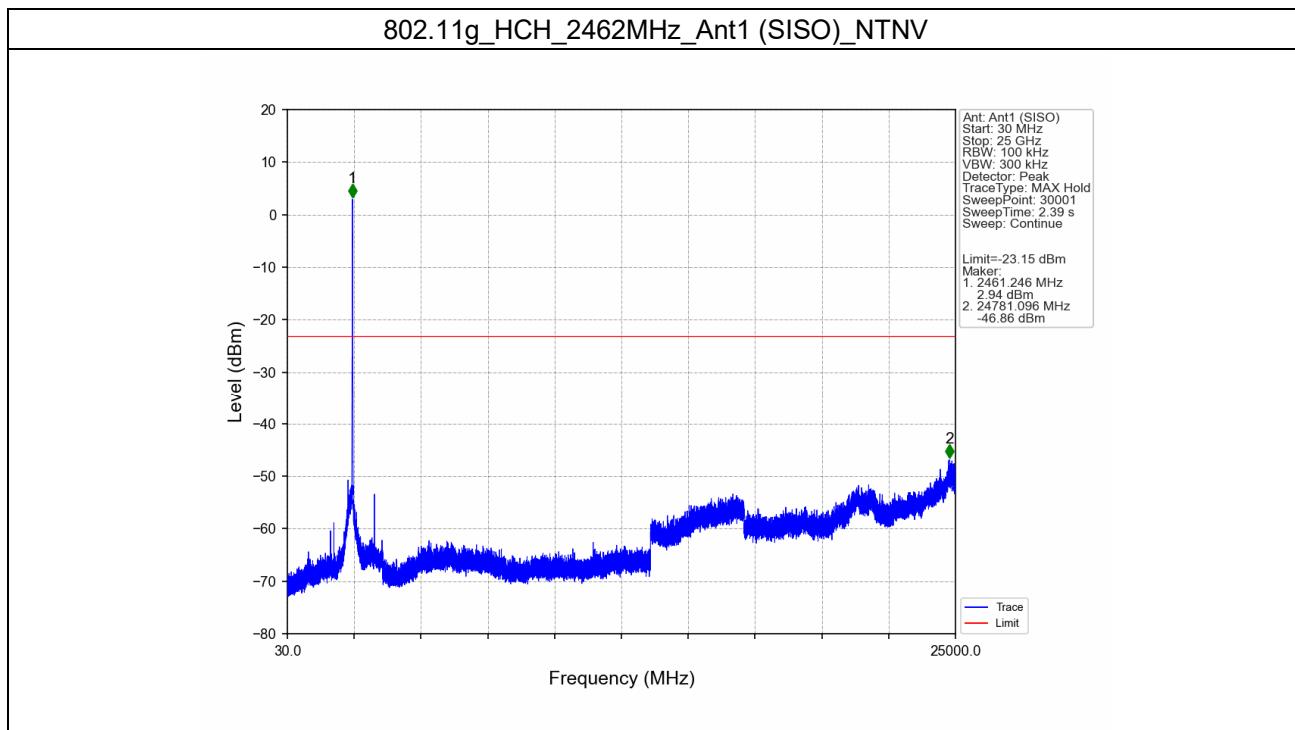
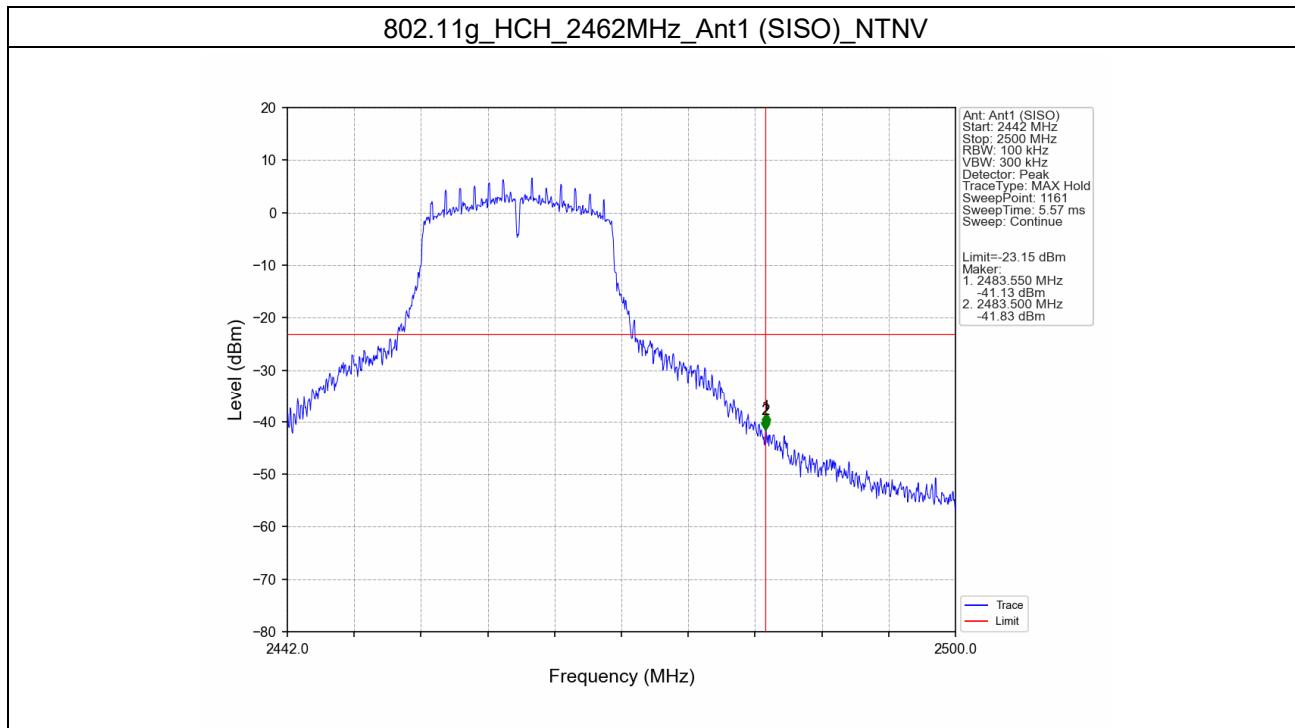
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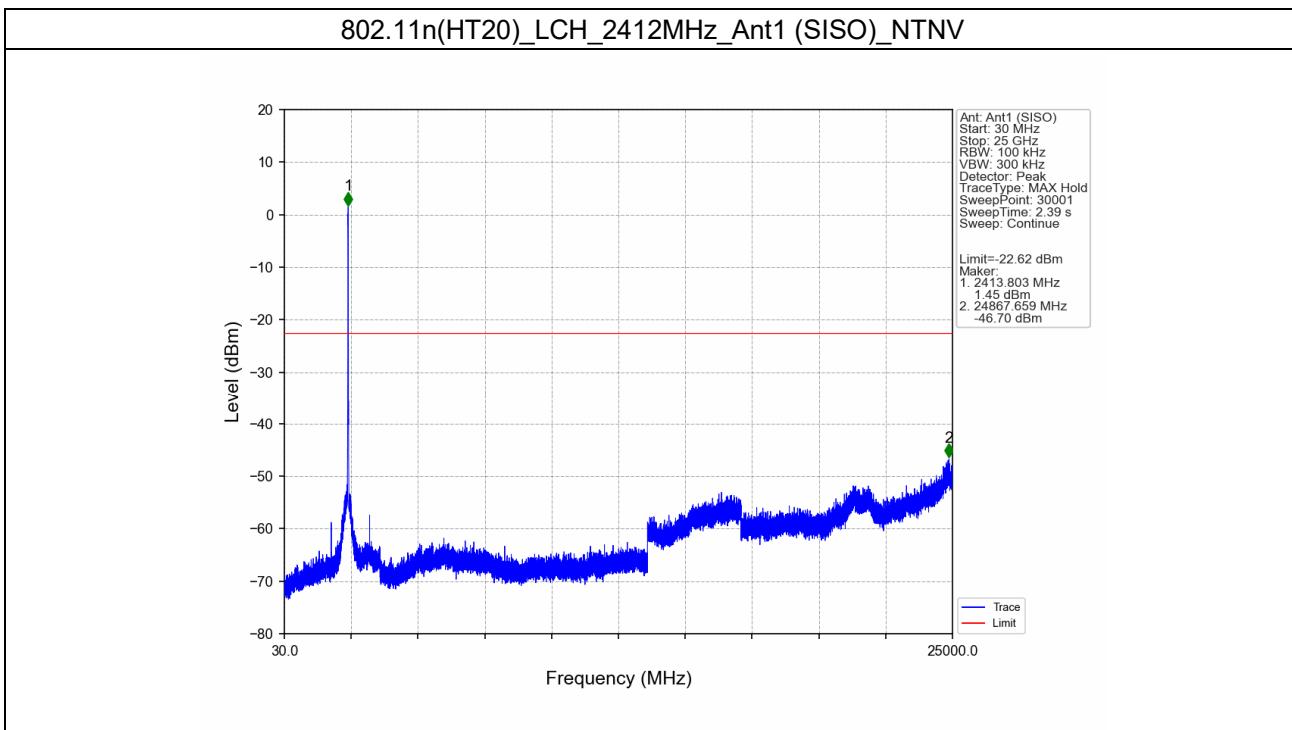
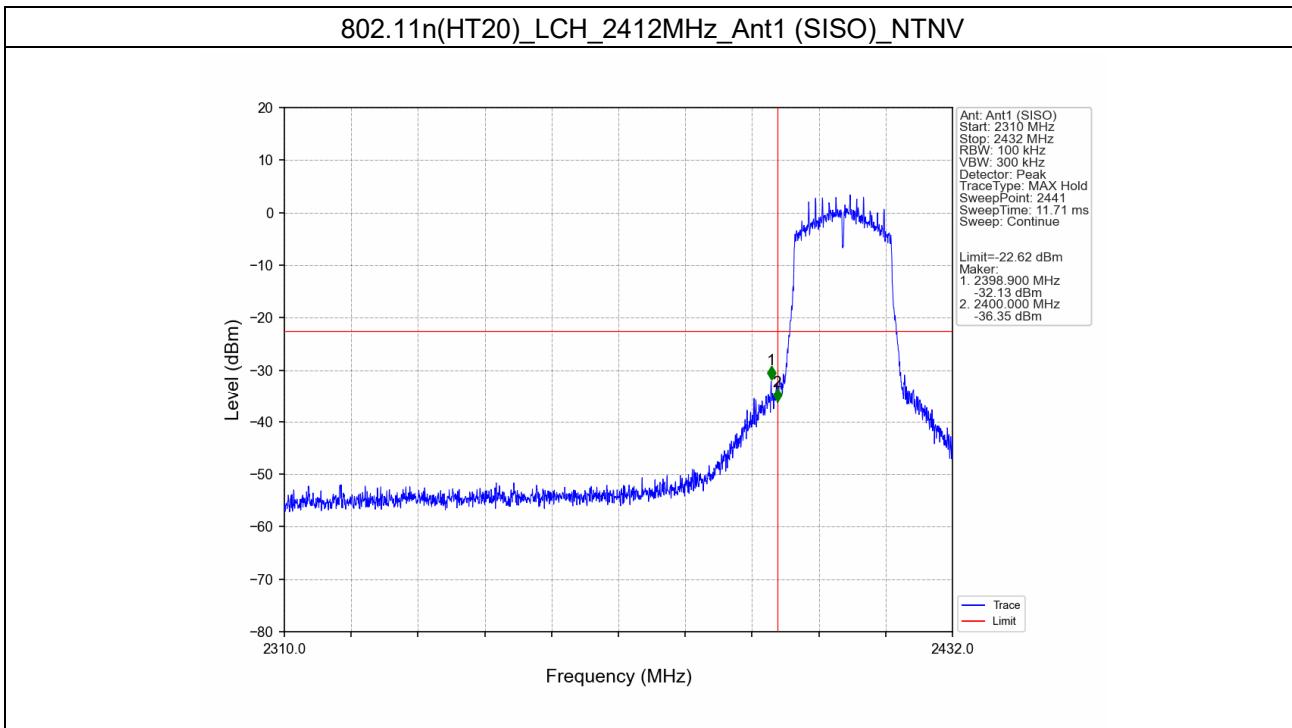


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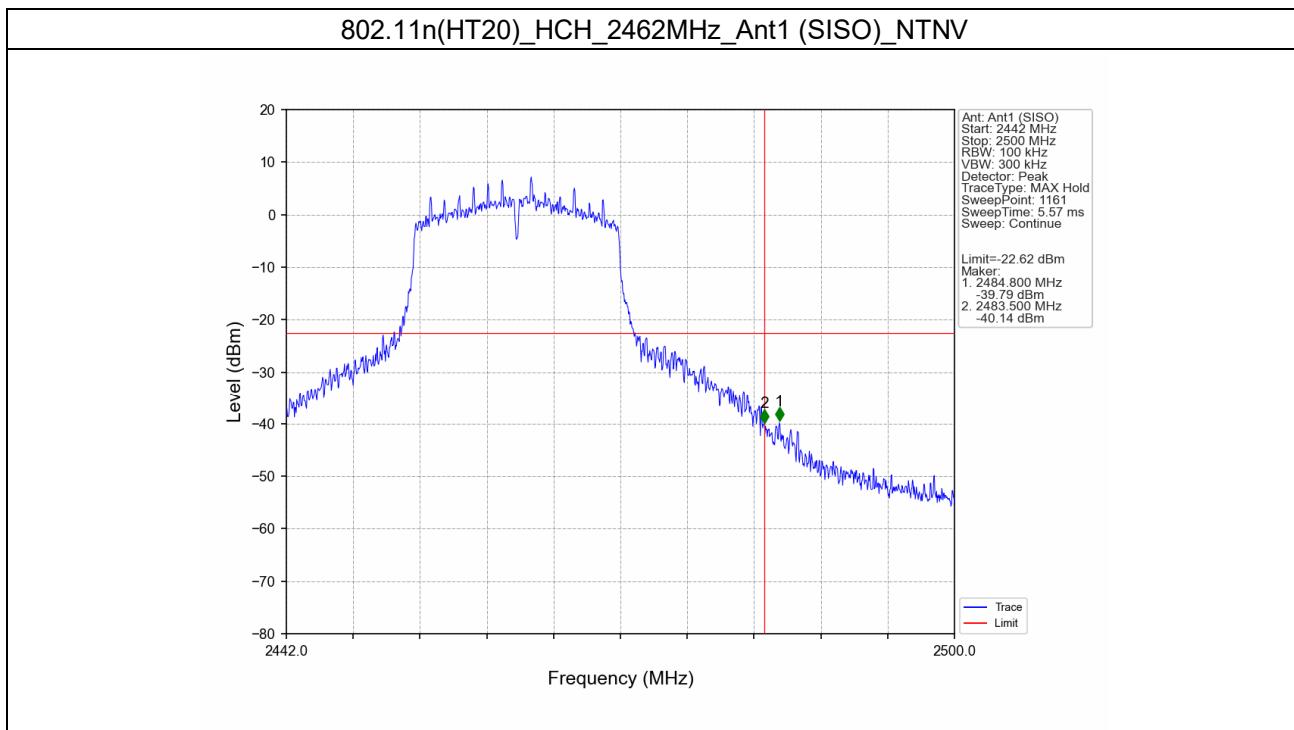
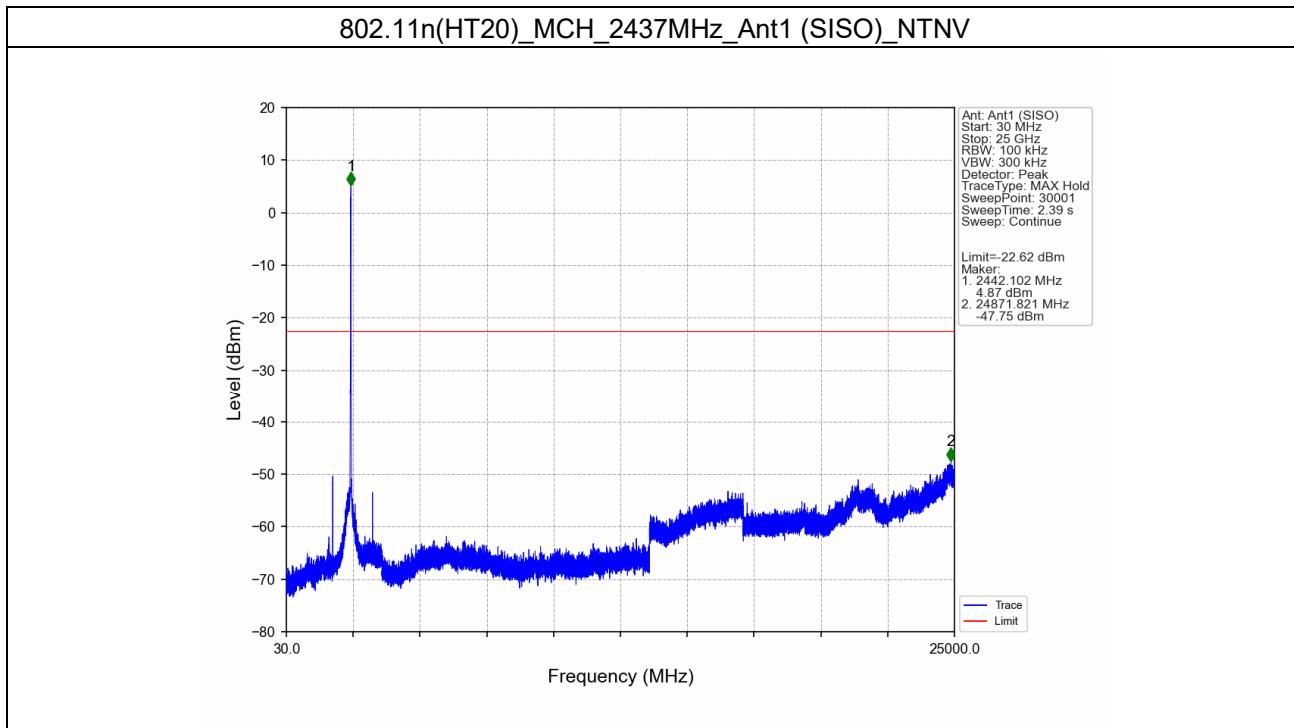


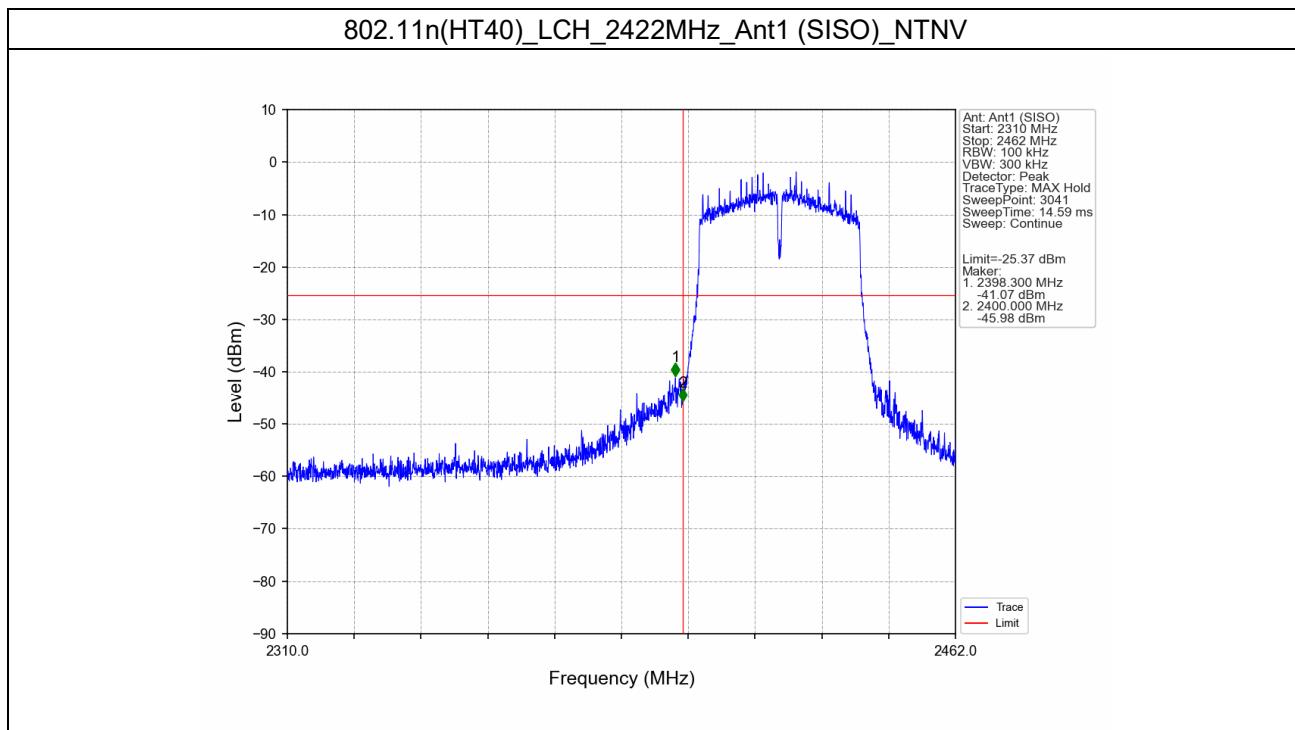
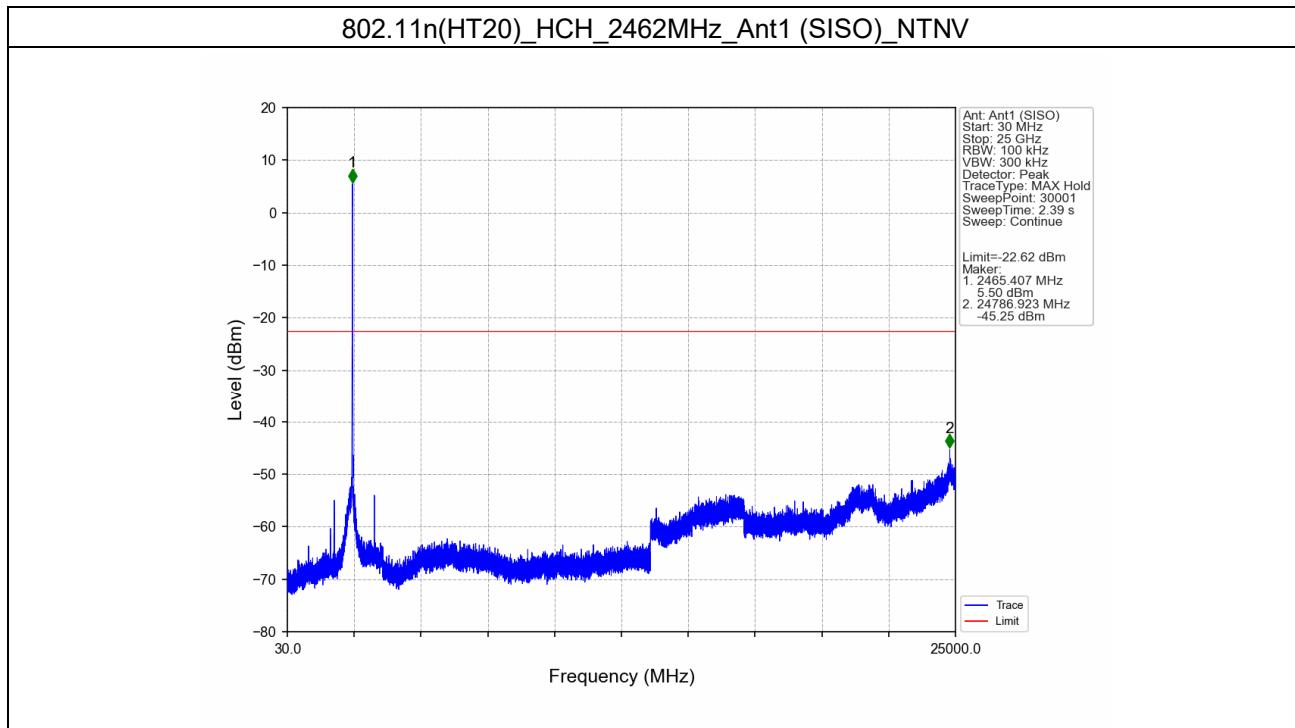




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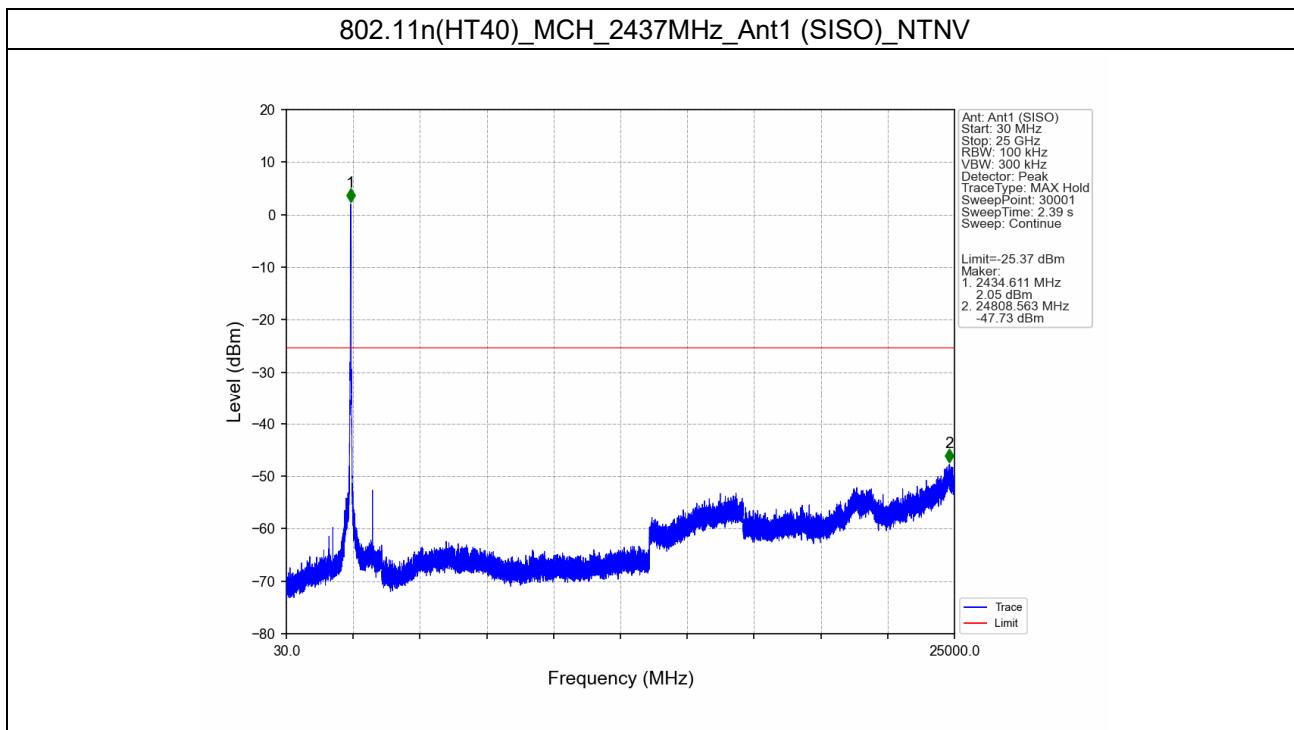
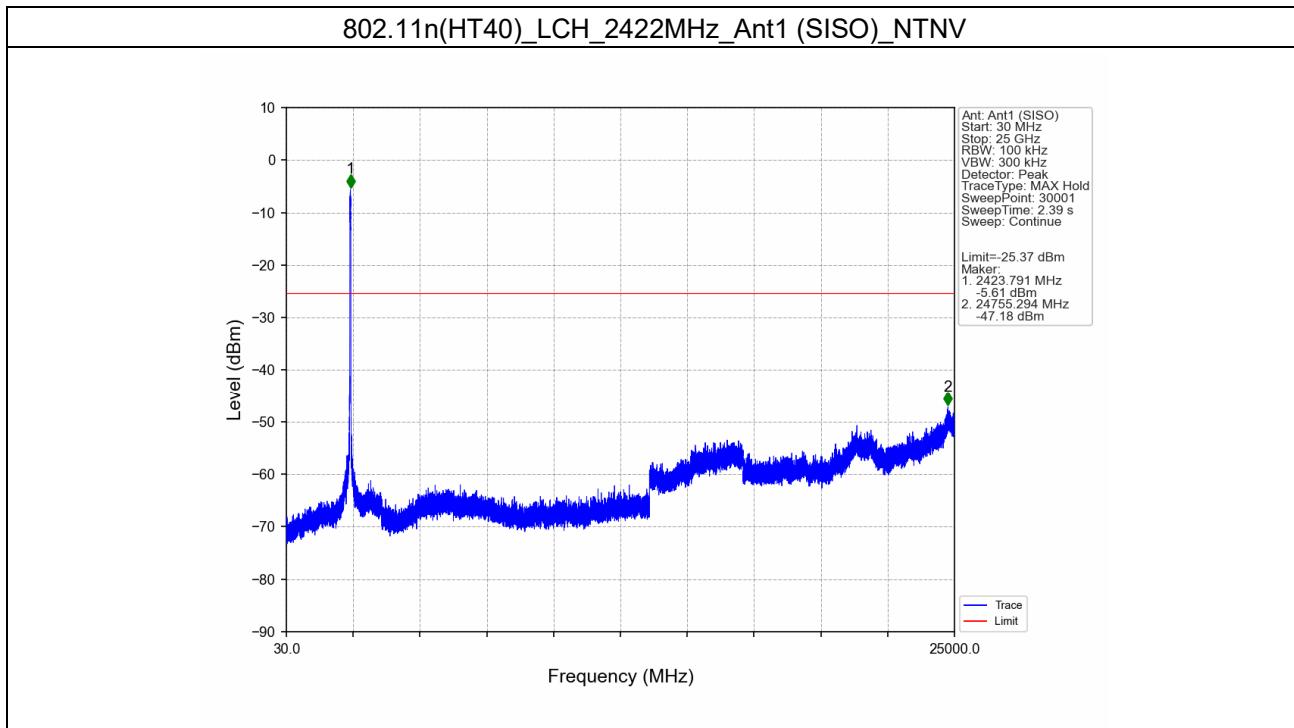
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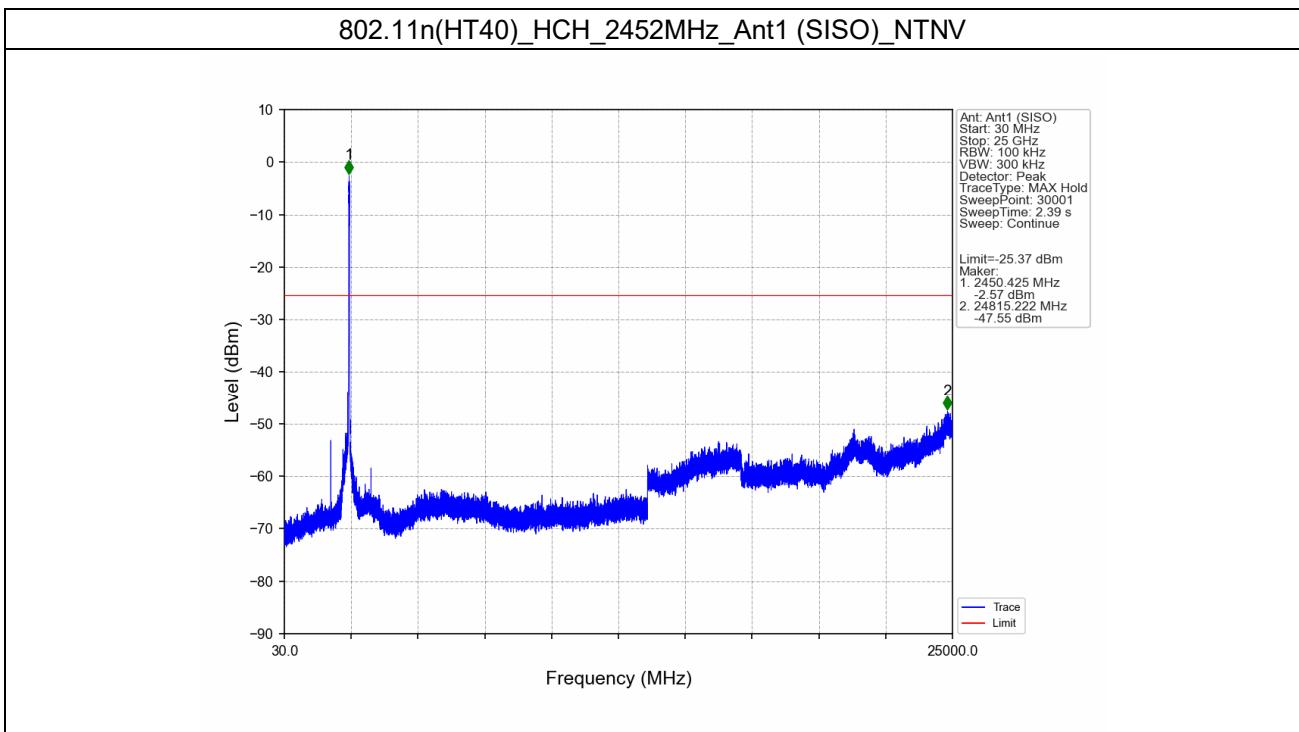
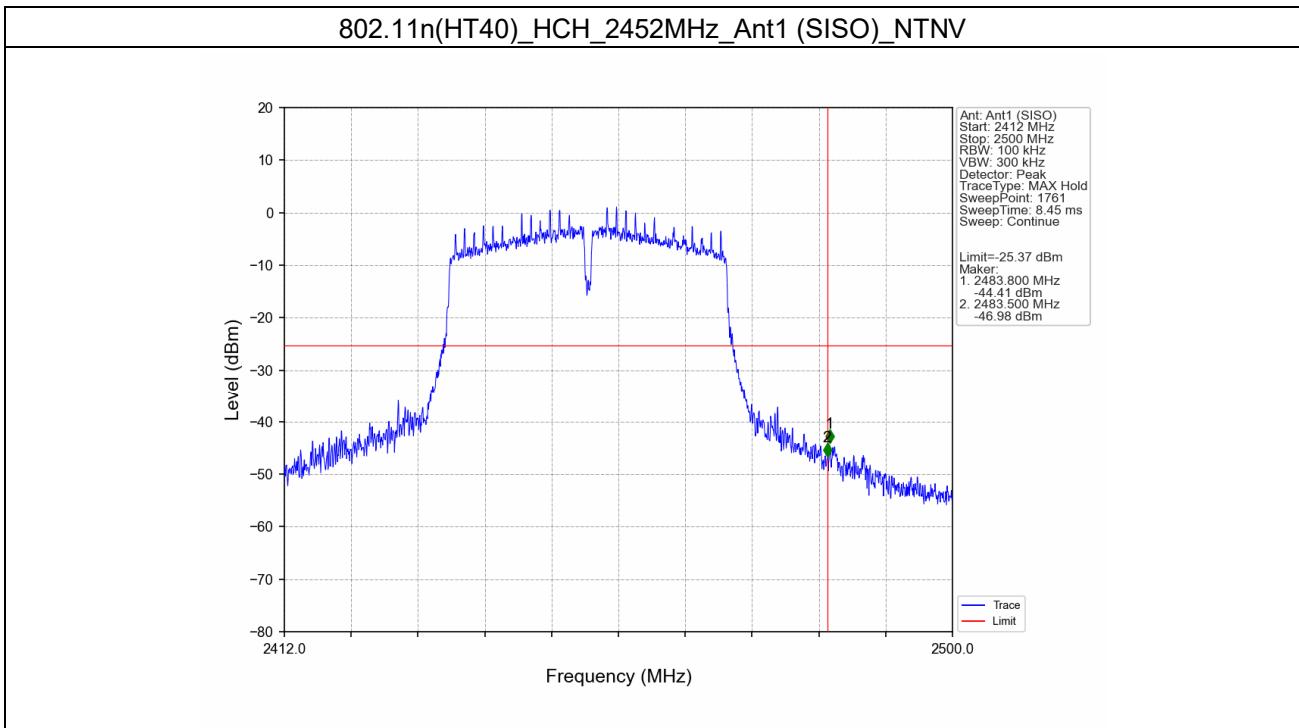
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